

APPENDICES

TRAFFIC DATA
SAFETY ANALYSIS
PUBLIC TRANSIT
SIGNAL TIMING DATA
TRIP GENERATION
INTERSECTION CAPACITY ANALYSIS
PEDESTRIAN ANALYSIS
BACKGROUND TRAFFIC VOLUMES

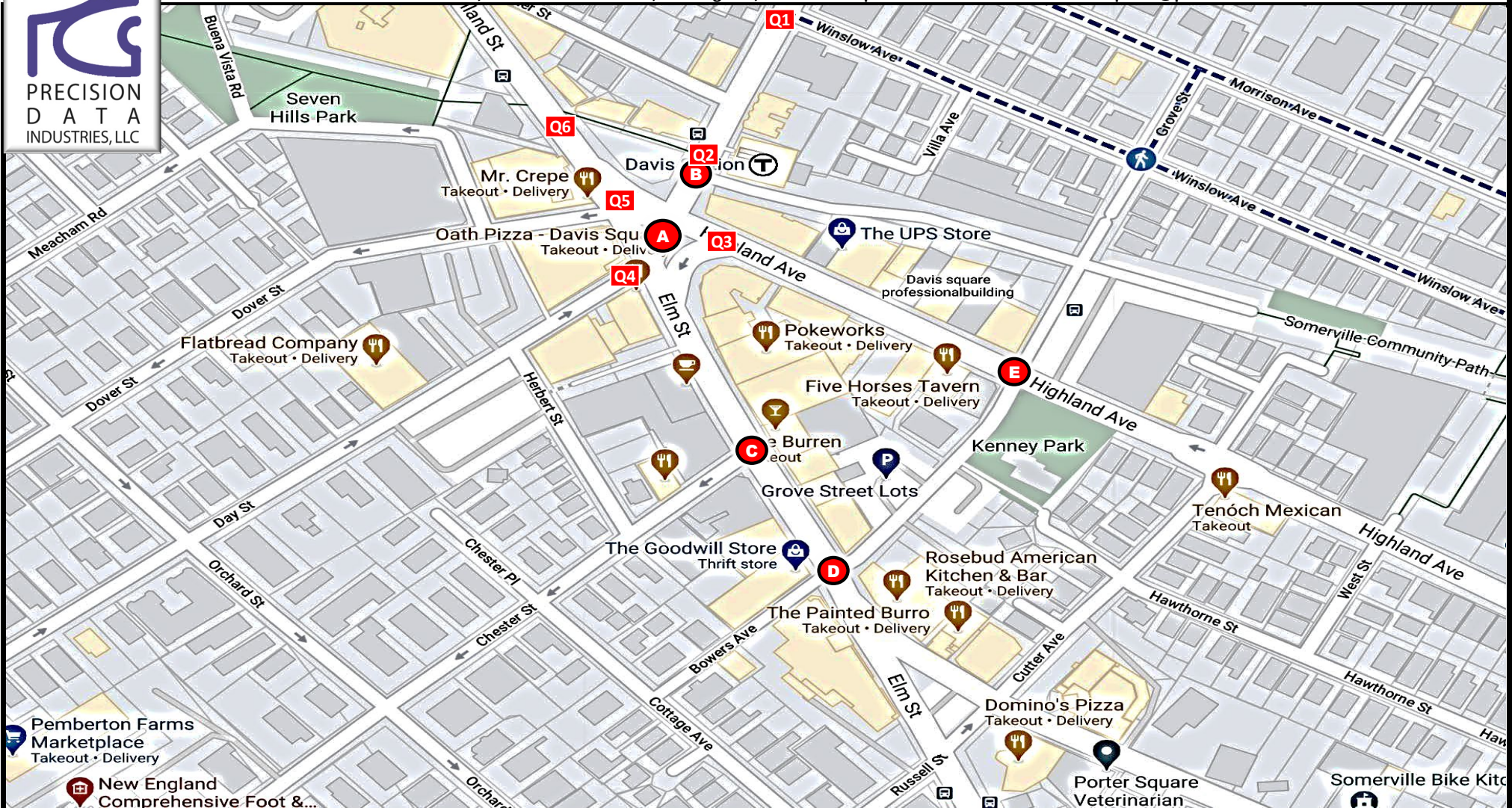
APPENDIX A – TRAFFIC DATA

APPENDIX A.1 – 2020 TRAFFIC DATA



Location Map: 207718 Somerville, MA

Precision Data Industries, LLC 46 Morton Street, Framingham, MA 01702 ph: 508-875-0100 email: datarequests@pdillc.com



Client: DCI	Engineer: S. Siragusa	Site Code: 2019-048	Date: Thurs 12/3 - Sat 12/5	PDI Job # 207718	City, State: Somerville, MA
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PDI File #: 207718 A

Location: N: Elm Street S: Elm Street

Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street

City, State: Somerville, MA

Client: Design Consultants/ S. Siragusa

Site Code: 2019-048

Count Date: Thursday, December 3, 2020

Start Time: 7:00 AM

End Time: 7:00 PM

Class:



46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and direction (from North, from East, from Southeast, from South, from Southwest, from West). Rows include time intervals from 7:00 AM to 5:45 PM and a final Total row. Columns include Right, Thru, Bear Left, Left, U-Turn, Total, and Total.

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



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 Office: 508-875-0100 Fax: 508-875-0118
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Cars and Heavy Vehicles (Combined)

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street						Total
	from North						from East						from Southeast						from South						from Southwest						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left		U-Turn	Total
Heavy Exiting Leg	22						8						0						30						0						5	65					
Total Exiting Leg	252						277						0						628						0						176	1333					

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street						Total				
	from North						from East						from Southeast						from South						from Southwest						from West										
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left		U-Turn	Total		
3:45 PM																																									
3:45 PM	3	61	0	0	0	64	10	21	0	40	0	0	71	100	64	38	0	20	0	222	0	0	0	0	0	0	0	37	0	0	0	0	37	0	0	0	0	0	0	0	394
4:00 PM	9	50	0	0	0	59	9	13	0	45	0	0	67	95	62	34	0	28	0	219	0	0	0	0	0	0	0	24	0	0	0	0	24	0	0	0	0	0	0	0	369
4:15 PM	10	57	0	0	0	67	6	21	0	48	0	0	75	70	61	34	0	17	0	182	0	0	0	0	0	0	0	26	0	0	0	0	26	0	0	0	0	0	0	0	350
4:30 PM	5	50	0	0	0	55	7	12	0	52	0	0	71	93	74	32	0	14	0	213	0	0	0	0	0	0	0	26	0	0	0	0	26	0	0	0	0	0	0	0	365
Total Volume	27	218	0	0	0	245	32	67	0	185	0	0	284	358	261	138	0	79	0	836	0	0	0	0	0	0	0	113	0	0	0	0	113	0	0	0	0	0	0	0	1478
% Approach Total	11.0	89.0	0.0	0.0	0.0		11.3	23.6	0.0	65.1	0.0	0.0		42.8	31.2	16.5	0.0	9.4	0.0		0.0	0.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.675	0.893	0.000	0.000	0.000	0.914	0.800	0.798	0.000	0.889	0.000	0.000	0.947	0.895	0.882	0.908	0.000	0.705	0.000	0.941	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.764	0.000	0.000	0.000	0.764	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.938	
Cars	26	206	0	0	0	232	24	67	0	175	0	0	266	354	259	135	0	78	0	826	0	0	0	0	0	0	0	110	0	0	0	0	110	0	0	0	0	0	0	0	1434
Cars %	96.3	94.5	0.0	0.0	0.0	94.7	75.0	100.0	0.0	94.6	0.0	0.0	93.7	98.9	99.2	97.8	0.0	98.7	0.0	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.3	0.0	0.0	0.0	0.0	97.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.0
Heavy Vehicles	1	12	0	0	0	13	8	0	0	10	0	0	18	4	2	3	0	1	0	10	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	44
Heavy Vehicles %	3.7	5.5	0.0	0.0	0.0	5.3	25.0	0.0	0.0	5.4	0.0	0.0	6.3	1.1	0.8	2.2	0.0	1.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Cars Enter Leg	26	206	0	0	0	232	24	67	0	175	0	0	266	354	259	135	0	78	0	826	0	0	0	0	0	0	0	110	0	0	0	0	110	0	0	0	0	0	0	0	1434
Heavy Enter Leg	1	12	0	0	0	13	8	0	0	10	0	0	18	4	2	3	0	1	0	10	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	44
Total Entering Leg	27	218	0	0	0	245	32	67	0	185	0	0	284	358	261	138	0	79	0	836	0	0	0	0	0	0	0	113	0	0	0	0	113	0	0	0	0	0	0	0	1478
Cars Exiting Leg	283						354						0						569						0						228	1434									
Heavy Exiting Leg	10						4						0						26						0						4	44									
Total Exiting Leg	293						358						0						595						0						232	1478									

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Cars

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street						
	from North						from East						from Southeast						from South						from Southwest						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
7:00 AM	5	25	0	0	0	30	2	20	0	22	0	44	20	16	20	0	5	0	61	0	0	0	0	0	0	8	0	0	0	0	8	0	0	0	0	0	143
7:15 AM	4	37	0	0	0	41	3	25	0	48	0	76	24	19	30	0	4	0	77	0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	201
7:30 AM	4	49	0	0	0	53	5	21	0	47	0	73	31	27	25	0	5	0	88	0	0	0	0	0	0	8	0	0	0	0	8	0	0	0	0	0	222
7:45 AM	6	26	0	0	0	32	3	33	0	49	0	85	29	31	31	1	11	0	103	0	0	0	0	0	0	12	0	0	0	0	12	0	0	0	0	0	232
Total	19	137	0	0	0	156	13	99	0	166	0	278	104	93	106	1	25	0	329	0	0	0	0	0	0	35	0	0	0	0	35	0	0	0	0	0	798
8:00 AM	8	30	0	0	0	38	2	25	0	51	0	78	34	39	29	0	6	0	108	0	0	0	0	0	0	8	0	0	0	0	8	0	0	0	0	0	232
8:15 AM	4	49	0	0	0	53	4	12	0	52	0	68	25	33	19	0	10	0	87	0	0	0	0	0	0	14	0	0	0	0	14	0	0	0	0	0	222
8:30 AM	2	43	0	0	0	45	3	18	0	53	0	74	36	30	34	0	11	0	111	0	0	0	0	0	0	10	0	0	0	0	10	0	0	0	0	0	240
8:45 AM	6	34	0	0	0	40	1	14	0	37	0	52	48	34	27	0	7	0	116	0	0	0	0	0	0	20	0	0	0	0	20	0	0	0	0	0	228
Total	20	156	0	0	0	176	10	69	0	193	0	272	143	136	109	0	34	0	422	0	0	0	0	0	0	52	0	0	0	0	52	0	0	0	0	0	922
9:00 AM	3	39	0	0	0	42	5	18	0	39	0	62	35	44	19	0	12	0	110	0	0	0	0	0	0	13	0	0	0	0	13	0	0	0	0	0	227
9:15 AM	3	44	0	0	0	47	2	15	0	46	0	63	33	28	25	0	11	0	97	0	0	0	0	0	0	11	0	0	0	0	11	0	0	0	0	0	218
9:30 AM	7	39	0	0	0	46	2	9	0	46	0	57	40	35	30	0	11	0	116	0	0	0	0	0	0	8	0	0	0	0	8	0	0	0	0	0	227
9:45 AM	8	42	0	0	0	50	3	17	0	41	0	61	27	31	23	0	22	0	103	0	0	0	0	0	0	13	0	0	0	0	13	0	0	0	0	0	227
Total	21	164	0	0	0	185	12	59	0	172	0	243	135	138	97	0	56	0	426	0	0	0	0	0	0	45	0	0	0	0	45	0	0	0	0	0	899
10:00 AM	4	42	0	0	0	46	1	16	0	46	0	63	51	31	23	0	14	0	119	0	0	0	0	0	0	16	0	0	0	0	16	0	0	0	0	0	244
10:15 AM	2	49	0	0	0	51	1	11	0	37	0	49	49	35	18	0	15	0	117	0	0	0	0	0	0	12	0	0	0	0	12	0	0	0	0	0	229
10:30 AM	6	43	0	0	0	49	2	13	0	43	0	58	56	35	25	0	17	0	133	0	0	0	0	0	0	29	0	0	0	0	29	0	0	0	0	0	269
10:45 AM	3	35	0	0	0	38	4	16	0	54	0	74	35	42	15	0	24	0	116	0	0	0	0	0	0	18	0	0	0	0	18	0	0	0	0	0	246
Total	15	169	0	0	0	184	8	56	0	180	0	244	191	143	81	0	70	0	485	0	0	0	0	0	0	75	0	0	0	0	75	0	0	0	0	0	988
11:00 AM	6	31	0	0	0	37	1	17	0	38	0	56	59	37	20	0	20	0	136	0	0	0	0	0	0	18	0	0	0	0	18	0	0	0	0	0	247
11:15 AM	8	51	0	0	0	59	4	16	0	47	0	67	49	54	21	0	19	0	143	0	0	0	0	0	0	21	0	0	0	0	21	0	0	0	0	0	290
11:30 AM	7	45	0	0	0	52	7	15	0	34	0	56	45	42	17	0	19	0	123	0	0	0	0	0	0	27	0	0	0	0	27	0	0	0	0	0	258
11:45 AM	7	40	0	0	0	47	2	17	0	50	0	69	48	60	33	0	22	0	163	0	0	0	0	0	0	27	0	0	0	0	27	0	0	0	0	0	306
Total	28	167	0	0	0	195	14	65	0	169	0	248	201	193	91	0	80	0	565	0	0	0	0	0	0	93	0	0	0	0	93	0	0	0	0	0	1101
12:00 PM	4	51	0	0	0	55	2	13	0	47	0	62	62	62	15	0	23	0	162	0	0	0	0	0	0	26	0	0	0	0	26	0	0	0	0	0	305
12:15 PM	6	51	0	0	0	57	5	15	0	49	0	69	51	53	25	0	23	0	152	0	0	0	0	0	0	34	0	0	0	0	34	0	0	0	0	0	312
12:30 PM	8	47	0	0	0	55	7	18	0	38	0	63	66	53	19	0	29	0	167	0	0	0	0	0	0	28	0	0	0	0	28	0	0	0	0	0	313
12:45 PM	5	41	0	0	0	46	2	17	0	48	0	67	60	52	23	0	29	0	164	0	0	0	0	0	0	33	0	0	0	0	33	0	0	0	0	0	310
Total	23	190	0	0	0	213	16	63	0	182	0	261	239	220	82	0	104	0	645	0	0	0	0	0	0	121	0	0	0	0	121	0	0	0	0	0	1240
1:00 PM	7	44	0	0	0	51	3	10	0	48	0	61	73	52	26	0	25	0	176	0	0	0	0	0	0	36	0	0	0	0	36	0	0	0	0	0	324
1:15 PM	2	47	0	0	0	49	3	15	0	53	0	61	71	70	58	21	0	22	0	171	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	321
1:30 PM	5	37	0	0	0	42	3	16	0	43	0	62	55	46	30	0	25	0	156	0	0	0	0	0	0	24	0	0	0	0	24	0	0	0	0	0	284
1:45 PM	9	39	0	0	0	48	1	17	0	40	0	58	71	43	34	0	24	0	172	0	0	0	0	0	0	27	0	0	0	0	27	0	0	0	0	0	305
Total	23	167	0	0	0	190	10	58	0	184	0	252	269	199	111	0	96	0	675	0	0	0	0	0	0	117	0	0	0	0	117	0	0	0	0	0	1234
2:00 PM	6	51	0	0	0	57	3	13	0	51	0	67	69	47	24	0	15	0	155	0	0	0	0	0	0	15	0	0	0	0	15	0	0	0	0	0	294
2:15 PM	7	36	0	0	0	43	5	18	0	46	0	69	69	52	32	0	16	0	169	0	0	0	0	0	0	25	0	0	0	0	25	0	0	0	0	0	306
2:30 PM	4	53	0	0	0	57	4	16	0	39	0	59	77	48	31	0	21	0	177	0	0	0	0	0	0	32	0	0	0	0	32	0	0	0	0	0	325
2:45 PM	3	45	0	0	0	48	7	23	0	35	0	65	76	52	36	0	17	0	181	0	0	0	0	0	0	23	0	0	0	0	23	0	0	0	0	0	317
Total	20	185	0	0	0	205	19	70	0	171	0	260	291	199	123	0	69	0	682	0	0	0	0	0	0	95	0	0	0	0	95	0	0	0	0	0	1242
3:00 PM	4	45	0	0	0	49	6	13	0	41	0	60	76	57	32	0	28	0	193	0	0	0	0	0	0	21	0	0	0	0	21	0	0	0	0	0	323
3:15 PM	6	31	0	0	0	37	4	20	0	46	0	70	65	55	37	0	9	0	166	0	0	0	0	0	0	27	0	0	0	0	27	0	0	0	0	0	300
3:30 PM	12	55	0	0	0	67	2	19	0	32	0	53	84	59	31	0	20	0	194	0	0	0	0	0	0	26	0	0	0	0	26	0	0	0	0	0	340
3:45 PM	3	59	0	0	0	62	9	21	0	38	0	68	97	63	37	0	20	0	217	0	0	0	0	0	0	37	0	0	0	0	37	0	0	0	0	0	384
Total	25	190	0	0	0	215	21	73	0	157	0	251	322	234	137	0	77	0	770	0	0	0	0	0	0	111	0	0	0	0	111	0	0	0	0	0	1347
4:00 PM	9	48	0	0	0	57																															

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Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Elm Street					College Avenue					Highland Avenue					Elm Street					Day Street					Dover Street					Total						
	from North					from East					from Southeast					from South					from Southwest					from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right		U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
Buses	0	5	0	0	0	5	6	0	0	7	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
Buses %	0.0	41.7	0.0	0.0	0.0	41.7	75.0	0.0	0.0	50.0	0.0	56.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4		
Single-Unit Trucks	0	6	0	0	0	6	1	1	0	7	0	9	8	10	4	0	6	0	28	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	49		
Single-Unit %	0.0	50.0	0.0	0.0	0.0	50.0	12.5	100.0	0.0	50.0	0.0	39.1	80.0	100.0	100.0	0.0	100.0	0.0	93.3	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	69.0		
Articulated Trucks	0	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
Articulated %	0.0	8.3	0.0	0.0	0.0	8.3	12.5	0.0	0.0	0.0	0.0	4.3	20.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6			
Buses	0	5	0	0	0	5	6	0	0	7	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18			
Single-Unit Trucks	0	6	0	0	0	6	1	1	0	7	0	9	8	10	4	0	6	0	28	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	49		
Articulated Trucks	0	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
Total Entering Leg	0	12	0	0	0	12	8	1	0	14	0	23	10	10	4	0	6	0	30	0	0	0	0	0	0	6	0	0	0	0	0	0	0	71			
Buses						6																			12									0	18		
Single-Unit Trucks						11																			25									5	49		
Articulated Trucks						1																			1									0	4		
Total Exiting Leg						18						10						0							38								5	71			

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

2:15 PM	Elm Street					College Avenue					Highland Avenue					Elm Street					Day Street					Dover Street					Total						
	from North					from East					from Southeast					from South					from Southwest					from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right		U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
2:15 PM	0	4	0	0	0	4	0	1	0	4	0	5	1	2	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13		
2:30 PM	0	1	0	0	0	1	4	0	0	0	0	4	0	4	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10		
2:45 PM	0	2	0	0	0	2	3	0	0	1	0	4	2	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9			
3:00 PM	1	1	0	0	0	2	4	1	0	0	0	5	7	1	2	0	0	10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	18			
Total Volume	1	8	0	0	0	9	11	2	0	5	0	18	10	7	3	0	2	22	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	50			
% Approach Total	11.1	88.9	0.0	0.0	0.0	5.63	61.1	11.1	0.0	27.8	0.0	9.00	45.5	31.8	13.6	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.94			
PHF	0.250	0.500	0.000	0.000	0.000	0.563	0.688	0.500	0.000	0.313	0.000	0.900	0.357	0.438	0.375	0.000	0.500	0.000	0.550	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.694			
Buses	1	8	0	0	0	9	11	0	0	4	0	15	2	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29			
Buses %	100.0	100.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	80.0	0.0	83.3	20.0	42.9	0.0	0.0	0.0	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.0			
Single-Unit Trucks	0	0	0	0	0	0	0	2	0	1	0	3	8	4	2	0	2	16	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	20			
Single-Unit %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	20.0	0.0	16.7	80.0	57.1	66.7	0.0	100.0	0.0	72.7	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	40.0			
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0			
Buses	1	8	0	0	0	9	11	0	0	4	0	15	2	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29			
Single-Unit Trucks	0	0	0	0	0	0	0	2	0	1	0	3	8	4	2	0	2	16	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	20			
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
Total Entering Leg	1	8	0	0	0	9	11	2	0	5	0	18	10	7	3	0	2	22	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	50			
Buses						14						2						0						12									1	29			
Single-Unit Trucks						4						8					4	0						4									4	20			
Articulated Trucks						0						0					0							0									1	1			
Total Exiting Leg						18						10					0							16								6	50				

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					College Avenue					Highland Avenue					Elm Street					Day Street					Dover Street					Total						
	from North					from East					from Southeast					from South					from Southwest					from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right		U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
6:00 PM	0	2	0	0	0	2	2	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7		
6:15 PM	0	1	0	0	0	1	3	0	0	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7			
6:30 PM	0	1	0	0	0	1	2	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5				
6:45 PM	0	2	0	0	0	2	3	0	0	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7				
Total	0	6	0	0	0	6	10	0	0	10	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26					
Grand Total	1	84	0	0	0	85	105	1	0	96	0	0	202	8	14	5	0	0	0	27	0	0	0	0	0	0	1	0	0	0	0	0	315				
Approach %	1.2	98.8	0.0	0.0	0.0		52.0	0.5	0.0	47.5	0.0	0.0		29.6	51.9	18.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0						
Total %	0.3	26.7	0.0	0.0	0.0	27.0	33.3	0.3	0.0	30.5	0.0	0.0	64.1	2.5	4.4	1.6	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0					
Exiting Leg Total						119						8							0						181						7	315					

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street					College Avenue					Highland Avenue					Elm Street					Day Street					Dover Street					Total						
	from North					from East					from Southeast					from South					from Southwest					from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right		U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
7:00 AM	0	4	0	0	0	4	1	1	0	4	0	0	6	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	12					
7:15 AM	0	4	0	0	0	4	1	0	0	0	0	0	1	1	1	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	9					
7:30 AM	0	2	0	0	0	2	2	0	0	4	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8					
7:45 AM	0	2	0	0	0	2	2	0	0	4	0	0	6	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	10					
Total Volume	0	12	0	0	0	12	6	1	0	12	0	0	19	2	3	3	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	39					
% Approach Total	0.0	100.0	0.0	0.0	0.0		31.6	5.3	0.0	63.2	0.0	0.0		25.0	37.5	37.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
PHF	0.000	0.750	0.000	0.000	0.000	0.750	0.750	0.250	0.000	0.750	0.000	0.000	0.792	0.500	0.750	0.375	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.813					
Entering Leg	0	12	0	0	0	12	6	1	0	12	0	0	19	2	3	3	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	39					
Exiting Leg						9						2							0						24						4	39					
Total						21						21							8						24					4	78						

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street					College Avenue					Highland Avenue					Elm Street					Day Street					Dover Street					Total						
	from North					from East					from Southeast					from South					from Southwest					from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right		U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
1:30 PM	0	1	0	0	0	1	4	0	0	1	0	0	5	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7					
1:45 PM	0	2	0	0	0	2	0	0	0	2	0	0	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5					
2:00 PM	0	2	0	0	0	2	3	0	0	0	0	0	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6					
2:15 PM	0	4	0	0	0	4	0	0	0	3	0	0	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	8					
Total Volume	0	9	0	0	0	9	7	0	0	6	0	0	13	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	26					
% Approach Total	0.0	100.0	0.0	0.0	0.0		53.8	0.0	0.0	46.2	0.0	0.0		0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
PHF	0.000	0.563	0.000	0.000	0.000	0.563	0.438	0.000	0.000	0.500	0.000	0.000	0.650	0.000	1.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.813					
Entering Leg	0	9	0	0	0	9	7	0	0	6	0	0	13	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	26					
Exiting Leg						11						0							0						15					0	26						
Total						20						13							4						15					0	52						

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street					College Avenue					Highland Avenue					Elm Street					Day Street					Dover Street					Total						
	from North					from East					from Southeast					from South					from Southwest					from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right		U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
4:00 PM	0	2	0	0	0	2	3	0	0	4	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9					
4:15 PM	0	4	0	0	0	4	1	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7					
4:30 PM	0	2	0	0	0	2	2	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6					
4:45 PM	0	1	0	0	0	1	4	0	0	3	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8					
Total Volume	0	9	0	0	0	9	10	0	0	11	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30					
% Approach Total	0.0	100.0	0.0	0.0	0.0		47.6	0.0	0.0	52.4	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
PHF	0.000	0.563	0.000	0.000	0.000	0.563	0.625	0.000	0.000	0.688	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.833					
Entering Leg	0	9	0	0	0	9	10	0	0	11	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30						
Exiting Leg						10						0							0						20					0	30						
Total						19						21							0						20					0	60						

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street									
from North						from East						from Southeast						from South						from Southwest						from West									
Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	Total	

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street								
from North						from East						from Southeast						from South						from Southwest						from West								
Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	Total

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street								
from North						from East						from Southeast						from South						from Southwest						from West								
Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	Total

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

Elm Street								College Avenue								Highland Avenue								Elm Street								Day Street								Dover Street																				
from North								from East								from Southeast								from South								from Southwest								from West																				
Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	CW-SE	CW-NB	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	CW-WB	CW-EB	Total	Hard Right	Right	Bear Right	U-Turn	CW-NWB	CW-SEB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total										

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



Pedestrians

Elm Street								College Avenue								Highland Avenue								Elm Street								Day Street								Dover Street																															
from North								from East								from Southeast								from South								from Southwest								from West																															
Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	CW-WB	CW-EB	Total	Hard Right	Right	Bear Right	U-Turn	CW-NWB	CW-SEB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total																						
																																																																							Total

PDI File #: 207718 A
 Location: N: Elm Street S: Elm Street
 Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street											
	from North						from East						from Southeast						from South						from Southwest						from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total				
11:00 AM	3	50	0	0	0	53	6	17	0	46	0	0	69	61	34	26	0	28	0	149	0	0	0	0	0	0	0	25	0	0	0	0	25	0	0	0	0	0	0			
11:15 AM	6	59	0	0	0	65	1	14	0	44	0	0	59	58	46	27	0	22	0	153	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0			
11:30 AM	10	58	0	0	0	68	6	10	0	46	0	0	62	75	55	22	0	29	0	181	0	0	0	0	0	0	0	29	0	0	0	0	29	0	0	0	0	0	0			
11:45 AM	5	51	0	0	0	56	5	11	0	57	0	0	73	54	55	26	0	33	0	168	0	0	0	0	0	0	0	32	0	0	0	0	32	0	0	0	0	0	0			
Total	24	218	0	0	0	242	18	52	0	193	0	0	263	248	190	101	0	112	0	651	0	0	0	0	0	0	0	116	0	0	0	0	116	0	0	0	0	0	0			
12:00 PM	11	49	0	0	0	60	2	19	0	52	0	0	73	62	79	33	0	35	0	209	0	0	0	0	0	0	0	40	0	0	0	0	40	0	0	0	0	0	0			
12:15 PM	8	57	0	0	0	65	6	18	0	37	0	0	61	71	68	27	0	32	0	198	0	0	0	0	0	0	0	42	0	0	0	0	42	0	0	0	0	0	0			
12:30 PM	10	52	0	0	0	62	4	12	0	43	0	0	59	59	44	26	0	41	0	170	0	0	0	0	0	0	0	22	0	0	0	0	22	0	0	0	0	0	0			
12:45 PM	13	55	0	0	0	68	3	17	0	50	0	0	70	63	63	30	0	27	0	183	0	0	0	0	0	0	0	46	0	0	0	0	46	0	0	0	0	0	0			
Total	42	213	0	0	0	255	15	66	0	182	0	0	263	255	254	116	0	135	0	760	0	0	0	0	0	0	0	150	0	0	0	0	150	0	0	0	0	0	0			
1:00 PM	6	38	0	0	0	44	4	15	0	45	0	0	64	51	67	23	0	37	0	178	0	0	0	0	0	0	0	40	0	0	0	0	40	0	0	0	0	0	0			
1:15 PM	4	45	0	0	0	49	3	12	0	42	0	0	57	74	61	29	0	35	0	199	0	0	0	0	0	0	0	34	0	0	0	0	34	0	0	0	0	0	0			
1:30 PM	8	56	0	0	0	64	3	13	0	50	0	0	66	60	46	28	0	24	0	158	0	0	0	0	0	0	0	36	0	0	0	0	36	0	0	0	0	0	0			
1:45 PM	11	55	0	1	0	67	6	15	0	45	0	0	66	69	58	26	0	33	0	186	0	0	0	0	0	0	0	29	0	0	0	0	29	0	0	0	0	0	0			
Total	29	194	0	1	0	224	16	55	0	182	0	0	253	254	232	106	0	129	0	721	0	0	0	0	0	0	0	139	0	0	0	0	139	0	0	0	0	0	0			
Grand Total	95	625	0	1	0	721	49	173	0	557	0	0	779	757	676	323	0	376	0	2132	0	0	0	0	0	0	0	405	0	0	0	0	405	0	0	0	0	0	0			
Approach %	13.2	86.7	0.0	0.1	0.0	6.3	22.2	0.0	71.5	0.0	0.0	35.5	31.7	15.2	0.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
Total %	2.4	15.5	0.0	0.0	0.0	17.9	1.2	4.3	0.0	13.8	0.0	0.0	19.3	18.8	16.7	8.0	0.0	9.3	0.0	52.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0			
Exiting Leg Total	725						758						0						1963						0						591						4037					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street											
	from North						from East						from Southeast						from South						from Southwest						from West											
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total				
12:00 PM	11	49	0	0	0	60	2	19	0	52	0	0	73	62	79	33	0	35	0	209	0	0	0	0	0	0	0	40	0	0	0	0	40	0	0	0	0	0	0			
12:15 PM	8	57	0	0	0	65	6	18	0	37	0	0	61	71	68	27	0	32	0	198	0	0	0	0	0	0	0	42	0	0	0	0	42	0	0	0	0	0	0			
12:30 PM	10	52	0	0	0	62	4	12	0	43	0	0	59	59	44	26	0	41	0	170	0	0	0	0	0	0	0	22	0	0	0	0	22	0	0	0	0	0	0			
12:45 PM	13	55	0	0	0	68	3	17	0	50	0	0	70	63	63	30	0	27	0	183	0	0	0	0	0	0	0	46	0	0	0	0	46	0	0	0	0	0	0			
Total Volume	42	213	0	0	0	255	15	66	0	182	0	0	263	255	254	116	0	135	0	760	0	0	0	0	0	0	0	150	0	0	0	0	150	0	0	0	0	0	0			
% Approach Total	16.5	83.5	0.0	0.0	0.0	5.7	25.1	0.0	69.2	0.0	0.0	33.6	33.4	15.3	0.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
PHF	0.808	0.934	0.000	0.000	0.000	0.938	0.625	0.868	0.000	0.875	0.000	0.000	0.901	0.898	0.804	0.879	0.000	0.823	0.000	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.815	0.000	0.000	0.000	0.815	0.000	0.000	0.000	0.000	0.000	0.000				
Entering Leg	42	213	0	0	0	255	15	66	0	182	0	0	263	255	254	116	0	135	0	760	0	0	0	0	0	0	0	150	0	0	0	0	150	0	0	0	0	0	0			
Exiting Leg	269						255						0						680						0						224						1428					
Total	524						518						760						680						150						224						2856					

PDI File #: **207718 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street							
	from North						from East						from Southeast						from South						from Southwest						from West							
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
11:00 AM	0	1	0	0	0	1	2	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
11:15 AM	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
11:30 AM	0	1	0	0	0	1	2	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4					
11:45 AM	0	1	0	0	0	1	1	0	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5					
Total	0	4	0	0	0	4	6	0	0	6	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16						
12:00 PM	0	2	0	0	0	2	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5						
12:15 PM	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2						
12:30 PM	0	2	0	0	0	2	2	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7						
12:45 PM	0	1	0	0	0	1	2	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4						
Total	0	6	0	0	0	6	7	0	0	5	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18							
1:00 PM	0	1	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3						
1:15 PM	0	2	0	0	0	2	1	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5						
1:30 PM	0	1	0	0	0	1	2	0	0	2	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5						
1:45 PM	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2						
Total	0	5	0	0	0	5	6	0	0	4	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15						
Grand Total	0	15	0	0	0	15	19	0	0	15	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49							
Approach %	0.0	100.0	0.0	0.0	0.0		55.9	0.0	0.0	44.1	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0								
Total %	0.0	30.6	0.0	0.0	0.0	30.6	38.8	0.0	0.0	30.6	0.0	0.0	69.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0							
Exiting Leg Total						19						0												30							0	49						

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street							
	from North						from East						from Southeast						from South						from Southwest						from West							
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total
11:45 AM	0	1	0	0	0	1	1	0	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5						
12:00 PM	0	2	0	0	0	2	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5						
12:15 PM	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2						
12:30 PM	0	2	0	0	0	2	2	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7						
Total Volume	0	6	0	0	0	6	6	0	0	7	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19							
% Approach Total	0.0	100.0	0.0	0.0	0.0		46.2	0.0	0.0	53.8	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0								
PHF	0.000	0.750	0.000	0.000	0.000	0.750	0.500	0.000	0.000	0.583	0.000	0.000	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.679						
Entering Leg	0	6	0	0	0	6	6	0	0	7	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19							
Exiting Leg						6						0												13							0	19						
Total						12						13												13							0	38						

PDI File #: 207718 A
 Location: N: Elm Street S: Elm Street
 Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street						Total						
	from North						from East						from Southeast						from South						from Southwest						from West												
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left		U-Turn	Total				
11:00 AM	0	1	0	0	0	1	0	0	0	1	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	0	5	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	7		
11:30 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
11:45 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	3			
Total	1	2	0	0	0	3	0	0	0	1	0	0	1	6	0	3	0	2	0	11	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	18			
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
12:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
Total	0	1	0	0	0	1	0	0	0	1	0	0	1	5	0	1	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9			
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2			
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	3			
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	0	1	0	7	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	9			
Grand Total	1	3	0	0	0	4	0	0	0	2	0	0	2	14	1	6	0	4	0	25	0	0	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	0	36				
Approach %	25.0	75.0	0.0	0.0	0.0		0.0	0.0	0.0	100.0	0.0	0.0		56.0	4.0	24.0	0.0	16.0	0.0		0.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0							
Total %	2.8	8.3	0.0	0.0	0.0	11.1	0.0	0.0	0.0	5.6	0.0	0.0	5.6	38.9	2.8	16.7	0.0	11.1	0.0	69.4	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0						
Exiting Leg Total	1						14						0						14						0						7						36						

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street						Total		
	from North						from East						from Southeast						from South						from Southwest						from West								
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left		U-Turn	Total
11:00 AM	0	1	0	0	0	1	0	0	0	1	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	0	5	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	7
11:30 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:45 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	3
Total Volume	1	2	0	0	0	3	0	0	0	1	0	0	1	6	0	3	0	2	0	11	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	18
% Approach Total	33.3	66.7	0.0	0.0	0.0		0.0	0.0	0.0	100.0	0.0	0.0		54.5	0.0	27.3	0.0	18.2	0.0		0.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			
PHF	0.250	0.500	0.000	0.000	0.000	0.750	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.750	0.000	0.375	0.000	0.250	0.000	0.550	0.000	0.000	0.000	0.000	0.000		0.375	0.000	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.643	
Entering Leg	1	2	0	0	0	3	0	0	0	1	0	0	1	6	0	3	0	2	0	11	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	18
Exiting Leg	0						6						0						8						0						4						18		
Total	3						7						11						8						3						4						36		

PDI File #: 207718 A
 Location: N: Elm Street S: Elm Street
 Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street									
	from North						from East						from Southeast						from South						from Southwest						from West									
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total	0						0						0						0						0						0						0			

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street						College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street												
	from North						from East						from Southeast						from South						from Southwest						from West												
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	hard Right	Right	Bear Right	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total					
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
PHF	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Exiting Leg	0						0						0						0						0						0						0						
Total	0						0						0						0						0						0						0						0

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	54	0	0	54	2	2	0	4	0	20	0	20	78
7:15 AM	78	0	0	78	2	1	0	3	0	26	0	26	107
7:30 AM	81	0	0	81	1	2	0	3	0	33	0	33	117
7:45 AM	88	0	0	88	2	3	0	5	0	31	0	31	124
Total	301	0	0	301	7	8	0	15	0	110	0	110	426
8:00 AM	86	0	0	86	3	0	0	3	0	34	0	34	123
8:15 AM	73	0	0	73	2	5	0	7	0	28	0	28	108
8:30 AM	84	0	0	84	5	1	0	6	0	39	0	39	129
8:45 AM	57	0	0	57	3	3	0	6	0	49	1	50	113
Total	300	0	0	300	13	9	0	22	0	150	1	151	473
9:00 AM	71	0	0	71	2	1	0	3	0	37	0	37	111
9:15 AM	68	0	0	68	3	1	0	4	0	36	0	36	108
9:30 AM	62	0	0	62	0	3	0	3	0	46	0	46	111
9:45 AM	66	0	0	66	4	1	0	5	0	28	0	28	99
Total	267	0	0	267	9	6	0	15	0	147	0	147	429
10:00 AM	65	0	0	65	0	2	0	2	0	53	0	53	120
10:15 AM	57	0	0	57	2	1	0	3	0	50	0	50	110
10:30 AM	62	0	0	62	2	4	0	6	0	62	0	62	130
10:45 AM	75	0	0	75	1	1	0	2	0	36	0	36	113
Total	259	0	0	259	5	8	0	13	0	201	0	201	473
11:00 AM	63	0	0	63	3	0	0	3	0	62	0	62	128
11:15 AM	71	0	0	71	0	1	0	1	0	49	0	49	121
11:30 AM	65	0	0	65	3	2	0	5	0	46	0	46	116
11:45 AM	76	0	0	76	1	1	0	2	0	50	0	50	128
Total	275	0	0	275	7	4	0	11	0	207	0	207	493
12:00 PM	65	0	0	65	1	3	0	4	0	64	0	64	133
12:15 PM	73	0	0	73	2	0	0	2	0	54	0	54	129
12:30 PM	69	0	0	69	0	2	0	2	0	69	0	69	140
12:45 PM	78	0	0	78	2	3	0	5	0	62	0	62	145
Total	285	0	0	285	5	8	0	13	0	249	0	249	547
1:00 PM	67	0	0	67	1	1	0	2	0	74	0	74	143
1:15 PM	70	0	0	70	1	1	0	2	0	73	0	73	145
1:30 PM	69	0	0	69	1	1	0	2	0	55	0	55	126
1:45 PM	61	0	0	61	0	3	0	3	0	74	0	74	138
Total	267	0	0	267	3	6	0	9	0	276	0	276	552
2:00 PM	71	0	0	71	1	1	0	2	0	69	0	69	142
2:15 PM	73	0	0	73	1	1	0	2	0	70	0	70	145
2:30 PM	61	0	0	61	0	3	0	3	0	76	0	76	140
2:45 PM	68	0	0	68	0	4	0	4	0	78	0	78	150
Total	273	0	0	273	2	9	0	11	0	293	0	293	577
3:00 PM	64	0	0	64	1	3	0	4	0	85	0	85	153
3:15 PM	73	0	0	73	1	3	0	4	0	66	0	66	143
3:30 PM	59	0	0	59	2	2	0	4	0	85	0	85	148
3:45 PM	72	0	0	72	2	1	0	3	0	97	0	97	172
Total	268	0	0	268	6	9	0	15	0	333	0	333	616
4:00 PM	65	0	0	65	2	2	0	4	0	94	0	94	163
4:15 PM	72	0	0	72	3	2	0	5	0	70	0	70	147
4:30 PM	69	0	0	69	2	3	0	5	0	94	0	94	168
4:45 PM	78	0	0	78	3	4	0	7	0	67	0	67	152
Total	284	0	0	284	10	11	0	21	0	325	0	325	630
5:00 PM	73	0	0	73	2	1	0	3	0	95	0	95	171
5:15 PM	71	0	0	71	2	2	0	4	0	92	0	92	167
5:30 PM	70	0	0	70	3	1	0	4	0	86	0	86	160
5:45 PM	69	0	0	69	1	2	0	3	0	66	0	66	138
Total	283	0	0	283	8	6	0	14	0	339	0	339	636
6:00 PM	71	0	0	71	3	2	0	5	0	90	0	90	166
6:15 PM	65	0	0	65	2	3	0	5	0	69	0	69	139
6:30 PM	69	0	0	69	2	1	0	3	0	71	0	71	143
6:45 PM	64	0	0	64	3	3	0	6	0	55	0	55	125
Total	269	0	0	269	10	9	0	19	0	285	0	285	573
Grand Total	3331	0	0	3331	85	93	0	178	0	2915	1	2916	6425
Approach %	100.0	0.0	0.0		47.8	52.2	0.0		0.0	100.0	0.0		
Total %	51.8	0.0	0.0	51.8	1.3	1.4	0.0	2.8	0.0	45.4	0.0	45.4	

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
Exiting Leg Total	3000				0				3425				6425
Cars	3118	0	0	3118	4	9	0	13	0	2831	1	2832	5963
% Cars	93.6	0.0	0.0	93.6	4.7	9.7	0.0	7.3	0.0	97.1	100.0	97.1	92.8
Exiting Leg Total	2835				0				3128				5963
Heavy Vehicles	213	0	0	213	81	84	0	165	0	84	0	84	462
% Heavy Vehicles	6.4	0.0	0.0	6.4	95.3	90.3	0.0	92.7	0.0	2.9	0.0	2.9	7.2
Exiting Leg Total	165				0				297				462

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:45 AM	88	0	0	88	2	3	0	5	0	31	0	31	124
8:00 AM	86	0	0	86	3	0	0	3	0	34	0	34	123
8:15 AM	73	0	0	73	2	5	0	7	0	28	0	28	108
8:30 AM	84	0	0	84	5	1	0	6	0	39	0	39	129
Total Volume	331	0	0	331	12	9	0	21	0	132	0	132	484
% Approach Total	100.0	0.0	0.0		57.1	42.9	0.0		0.0	100.0	0.0		
PHF	0.940	0.000	0.000	0.940	0.600	0.450	0.000	0.750	0.000	0.846	0.000	0.846	0.938
Cars	303	0	0	303	0	1	0	1	0	123	0	123	427
Cars %	91.5	0.0	0.0	91.5	0.0	11.1	0.0	4.8	0.0	93.2	0.0	93.2	88.2
Heavy Vehicles	28	0	0	28	12	8	0	20	0	9	0	9	57
Heavy Vehicles %	8.5	0.0	0.0	8.5	100.0	88.9	0.0	95.2	0.0	6.8	0.0	6.8	11.8
Cars Enter Leg	303	0	0	303	0	1	0	1	0	123	0	123	427
Heavy Enter Leg	28	0	0	28	12	8	0	20	0	9	0	9	57
Total Entering Leg	331	0	0	331	12	9	0	21	0	132	0	132	484
Cars Exiting Leg				123				0					304
Heavy Exiting Leg				21				0					36
Total Exiting Leg				144				0					340

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:30 PM	69	0	0	69	0	2	0	2	0	69	0	69	140
12:45 PM	78	0	0	78	2	3	0	5	0	62	0	62	145
1:00 PM	67	0	0	67	1	1	0	2	0	74	0	74	143
1:15 PM	70	0	0	70	1	1	0	2	0	73	0	73	145
Total Volume	284	0	0	284	4	7	0	11	0	278	0	278	573
% Approach Total	100.0	0.0	0.0		36.4	63.6	0.0		0.0	100.0	0.0		
PHF	0.910	0.000	0.000	0.910	0.500	0.583	0.000	0.550	0.000	0.939	0.000	0.939	0.988
Cars	266	0	0	266	0	1	0	1	0	269	0	269	536
Cars %	93.7	0.0	0.0	93.7	0.0	14.3	0.0	9.1	0.0	96.8	0.0	96.8	93.5
Heavy Vehicles	18	0	0	18	4	6	0	10	0	9	0	9	37
Heavy Vehicles %	6.3	0.0	0.0	6.3	100.0	85.7	0.0	90.9	0.0	3.2	0.0	3.2	6.5
Cars Enter Leg	266	0	0	266	0	1	0	1	0	269	0	269	536
Heavy Enter Leg	18	0	0	18	4	6	0	10	0	9	0	9	37
Total Entering Leg	284	0	0	284	4	7	0	11	0	278	0	278	573
Cars Exiting Leg				269				0					536
Heavy Exiting Leg				13				0					37
Total Exiting Leg				282				0					291

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:30 PM	69	0	0	69	2	3	0	5	0	94	0	94	168
4:45 PM	78	0	0	78	3	4	0	7	0	67	0	67	152
5:00 PM	73	0	0	73	2	1	0	3	0	95	0	95	171
5:15 PM	71	0	0	71	2	2	0	4	0	92	0	92	167
Total Volume	291	0	0	291	9	10	0	19	0	348	0	348	658
% Approach Total	100.0	0.0	0.0		47.4	52.6	0.0		0.0	100.0	0.0		
PHF	0.933	0.000	0.000	0.933	0.750	0.625	0.000	0.679	0.000	0.916	0.000	0.916	0.962
Cars	277	0	0	277	0	2	0	2	0	344	0	344	623

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
Cars %	95.2	0.0	0.0	95.2	0.0	20.0	0.0	10.5	0.0	98.9	0.0	98.9	94.7
Heavy Vehicles	14	0	0	14	9	8	0	17	0	4	0	4	35
Heavy Vehicles %	4.8	0.0	0.0	4.8	100.0	80.0	0.0	89.5	0.0	1.1	0.0	1.1	5.3
Cars Enter Leg	277	0	0	277	0	2	0	2	0	344	0	344	623
Heavy Enter Leg	14	0	0	14	9	8	0	17	0	4	0	4	35
Total Entering Leg	291	0	0	291	9	10	0	19	0	348	0	348	658
Cars Exiting Leg				344				0				279	623
Heavy Exiting Leg				13				0				22	35
Total Exiting Leg				357				0				301	658

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Class:

Cars

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	44	0	0	44	0	0	0	0	0	20	0	20	64
7:15 AM	76	0	0	76	0	0	0	0	0	24	0	24	100
7:30 AM	72	0	0	72	0	0	0	0	0	31	0	31	103
7:45 AM	83	0	0	83	0	0	0	0	0	29	0	29	112
Total	275	0	0	275	0	0	0	0	0	104	0	104	379
8:00 AM	78	0	0	78	0	0	0	0	0	33	0	33	111
8:15 AM	67	0	0	67	0	1	0	1	0	24	0	24	92
8:30 AM	75	0	0	75	0	0	0	0	0	37	0	37	112
8:45 AM	51	0	0	51	0	1	0	1	0	47	1	48	100
Total	271	0	0	271	0	2	0	2	0	141	1	142	415
9:00 AM	61	0	0	61	1	0	0	1	0	36	0	36	98
9:15 AM	63	0	0	63	0	0	0	0	0	33	0	33	96
9:30 AM	57	0	0	57	0	0	0	0	0	41	0	41	98
9:45 AM	59	0	0	59	1	0	0	1	0	27	0	27	87
Total	240	0	0	240	2	0	0	2	0	137	0	137	379
10:00 AM	62	0	0	62	0	0	0	0	0	51	0	51	113
10:15 AM	49	0	0	49	0	1	0	1	0	48	0	48	98
10:30 AM	57	0	0	57	1	1	0	2	0	55	0	55	114
10:45 AM	74	0	0	74	0	0	0	0	0	35	0	35	109
Total	242	0	0	242	1	2	0	3	0	189	0	189	434
11:00 AM	58	0	0	58	0	0	0	0	0	59	0	59	117
11:15 AM	67	0	0	67	0	0	0	0	0	49	0	49	116
11:30 AM	56	0	0	56	0	0	0	0	0	45	0	45	101
11:45 AM	72	0	0	72	0	0	0	0	0	48	0	48	120
Total	253	0	0	253	0	0	0	0	0	201	0	201	454
12:00 PM	63	0	0	63	0	0	0	0	0	62	0	62	125
12:15 PM	69	0	0	69	0	0	0	0	0	51	0	51	120
12:30 PM	63	0	0	63	0	1	0	1	0	67	0	67	131
12:45 PM	73	0	0	73	0	0	0	0	0	60	0	60	133
Total	268	0	0	268	0	1	0	1	0	240	0	240	509
1:00 PM	60	0	0	60	0	0	0	0	0	73	0	73	133
1:15 PM	70	0	0	70	0	0	0	0	0	69	0	69	139
1:30 PM	65	0	0	65	0	0	0	0	0	54	0	54	119
1:45 PM	60	0	0	60	0	0	0	0	0	71	0	71	131
Total	255	0	0	255	0	0	0	0	0	267	0	267	522
2:00 PM	70	0	0	70	0	0	0	0	0	69	0	69	139
2:15 PM	68	0	0	68	0	0	0	0	0	69	0	69	137
2:30 PM	60	0	0	60	0	0	0	0	0	76	0	76	136
2:45 PM	67	0	0	67	0	0	0	0	0	76	0	76	143
Total	265	0	0	265	0	0	0	0	0	290	0	290	555
3:00 PM	61	0	0	61	0	0	0	0	0	79	0	79	140
3:15 PM	71	0	0	71	0	0	0	0	0	66	0	66	137
3:30 PM	55	0	0	55	0	0	0	0	0	83	0	83	138
3:45 PM	69	0	0	69	0	0	0	0	0	93	0	93	162
Total	256	0	0	256	0	0	0	0	0	321	0	321	577
4:00 PM	59	0	0	59	0	0	0	0	0	93	0	93	152
4:15 PM	70	0	0	70	1	1	0	2	0	70	0	70	142
4:30 PM	66	0	0	66	0	1	0	1	0	93	0	93	160
4:45 PM	74	0	0	74	0	1	0	1	0	66	0	66	141
Total	269	0	0	269	1	3	0	4	0	322	0	322	595
5:00 PM	69	0	0	69	0	0	0	0	0	94	0	94	163
5:15 PM	68	0	0	68	0	0	0	0	0	91	0	91	159
5:30 PM	66	0	0	66	0	0	0	0	0	86	0	86	152
5:45 PM	66	0	0	66	0	0	0	0	0	66	0	66	132
Total	269	0	0	269	0	0	0	0	0	337	0	337	606
6:00 PM	68	0	0	68	0	0	0	0	0	90	0	90	158
6:15 PM	60	0	0	60	0	1	0	1	0	67	0	67	128
6:30 PM	65	0	0	65	0	0	0	0	0	71	0	71	136
6:45 PM	62	0	0	62	0	0	0	0	0	54	0	54	116
Total	255	0	0	255	0	1	0	1	0	282	0	282	538
Grand Total	3118	0	0	3118	4	9	0	13	0	2831	1	2832	5963
Approach %	100.0	0.0	0.0		30.8	69.2	0.0		0.0	100.0	0.0		

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
Total %	52.3	0.0	0.0	52.3	0.1	0.2	0.0	0.2	0.0	47.5	0.0	47.5	
Exiting Leg Total	2835				0				3128				5963

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:45 AM	83	0	0	83	0	0	0	0	0	29	0	29	112
8:00 AM	78	0	0	78	0	0	0	0	0	33	0	33	111
8:15 AM	67	0	0	67	0	1	0	1	0	24	0	24	92
8:30 AM	75	0	0	75	0	0	0	0	0	37	0	37	112
Total Volume	303	0	0	303	0	1	0	1	0	123	0	123	427
% Approach Total	100.0	0.0	0.0		0.0	100.0	0.0		0.0	100.0	0.0		
PHF	0.913	0.000	0.000	0.913	0.000	0.250	0.000	0.250	0.000	0.831	0.000	0.831	0.953
Entering Leg	303	0	0	303	0	1	0	1	0	123	0	123	427
Exiting Leg	123				0				304				427
Total	426				1				427				854

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
1:45 PM	60	0	0	60	0	0	0	0	0	71	0	71	131
2:00 PM	70	0	0	70	0	0	0	0	0	69	0	69	139
2:15 PM	68	0	0	68	0	0	0	0	0	69	0	69	137
2:30 PM	60	0	0	60	0	0	0	0	0	76	0	76	136
Total Volume	258	0	0	258	0	0	0	0	0	285	0	285	543
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.921	0.000	0.000	0.921	0.000	0.000	0.000	0.000	0.000	0.938	0.000	0.938	0.977
Entering Leg	258	0	0	258	0	0	0	0	0	285	0	285	543
Exiting Leg	285				0				258				543
Total	543				0				543				1086

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:30 PM	66	0	0	66	0	1	0	1	0	93	0	93	160
4:45 PM	74	0	0	74	0	1	0	1	0	66	0	66	141
5:00 PM	69	0	0	69	0	0	0	0	0	94	0	94	163
5:15 PM	68	0	0	68	0	0	0	0	0	91	0	91	159
Total Volume	277	0	0	277	0	2	0	2	0	344	0	344	623
% Approach Total	100.0	0.0	0.0		0.0	100.0	0.0		0.0	100.0	0.0		
PHF	0.936	0.000	0.000	0.936	0.000	0.500	0.000	0.500	0.000	0.915	0.000	0.915	0.956
Entering Leg	277	0	0	277	0	2	0	2	0	344	0	344	623
Exiting Leg	344				0				279				623
Total	621				2				623				1246

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	10	0	0	10	2	2	0	4	0	0	0	0	14
7:15 AM	2	0	0	2	2	1	0	3	0	2	0	2	7
7:30 AM	9	0	0	9	1	2	0	3	0	2	0	2	14
7:45 AM	5	0	0	5	2	3	0	5	0	2	0	2	12
Total	26	0	0	26	7	8	0	15	0	6	0	6	47
8:00 AM	8	0	0	8	3	0	0	3	0	1	0	1	12
8:15 AM	6	0	0	6	2	4	0	6	0	4	0	4	16
8:30 AM	9	0	0	9	5	1	0	6	0	2	0	2	17
8:45 AM	6	0	0	6	3	2	0	5	0	2	0	2	13
Total	29	0	0	29	13	7	0	20	0	9	0	9	58
9:00 AM	10	0	0	10	1	1	0	2	0	1	0	1	13
9:15 AM	5	0	0	5	3	1	0	4	0	3	0	3	12
9:30 AM	5	0	0	5	0	3	0	3	0	5	0	5	13
9:45 AM	7	0	0	7	3	1	0	4	0	1	0	1	12
Total	27	0	0	27	7	6	0	13	0	10	0	10	50
10:00 AM	3	0	0	3	0	2	0	2	0	2	0	2	7
10:15 AM	8	0	0	8	2	0	0	2	0	2	0	2	12
10:30 AM	5	0	0	5	1	3	0	4	0	7	0	7	16
10:45 AM	1	0	0	1	1	1	0	2	0	1	0	1	4
Total	17	0	0	17	4	6	0	10	0	12	0	12	39
11:00 AM	5	0	0	5	3	0	0	3	0	3	0	3	11
11:15 AM	4	0	0	4	0	1	0	1	0	0	0	0	5
11:30 AM	9	0	0	9	3	2	0	5	0	1	0	1	15
11:45 AM	4	0	0	4	1	1	0	2	0	2	0	2	8
Total	22	0	0	22	7	4	0	11	0	6	0	6	39
12:00 PM	2	0	0	2	1	3	0	4	0	2	0	2	8
12:15 PM	4	0	0	4	2	0	0	2	0	3	0	3	9
12:30 PM	6	0	0	6	0	1	0	1	0	2	0	2	9
12:45 PM	5	0	0	5	2	3	0	5	0	2	0	2	12
Total	17	0	0	17	5	7	0	12	0	9	0	9	38
1:00 PM	7	0	0	7	1	1	0	2	0	1	0	1	10
1:15 PM	0	0	0	0	1	1	0	2	0	4	0	4	6
1:30 PM	4	0	0	4	1	1	0	2	0	1	0	1	7
1:45 PM	1	0	0	1	0	3	0	3	0	3	0	3	7
Total	12	0	0	12	3	6	0	9	0	9	0	9	30
2:00 PM	1	0	0	1	1	1	0	2	0	0	0	0	3
2:15 PM	5	0	0	5	1	1	0	2	0	1	0	1	8
2:30 PM	1	0	0	1	0	3	0	3	0	0	0	0	4
2:45 PM	1	0	0	1	0	4	0	4	0	2	0	2	7
Total	8	0	0	8	2	9	0	11	0	3	0	3	22
3:00 PM	3	0	0	3	1	3	0	4	0	6	0	6	13
3:15 PM	2	0	0	2	1	3	0	4	0	0	0	0	6
3:30 PM	4	0	0	4	2	2	0	4	0	2	0	2	10
3:45 PM	3	0	0	3	2	1	0	3	0	4	0	4	10
Total	12	0	0	12	6	9	0	15	0	12	0	12	39
4:00 PM	6	0	0	6	2	2	0	4	0	1	0	1	11
4:15 PM	2	0	0	2	2	1	0	3	0	0	0	0	5
4:30 PM	3	0	0	3	2	2	0	4	0	1	0	1	8
4:45 PM	4	0	0	4	3	3	0	6	0	1	0	1	11
Total	15	0	0	15	9	8	0	17	0	3	0	3	35
5:00 PM	4	0	0	4	2	1	0	3	0	1	0	1	8
5:15 PM	3	0	0	3	2	2	0	4	0	1	0	1	8
5:30 PM	4	0	0	4	3	1	0	4	0	0	0	0	8
5:45 PM	3	0	0	3	1	2	0	3	0	0	0	0	6
Total	14	0	0	14	8	6	0	14	0	2	0	2	30
6:00 PM	3	0	0	3	3	2	0	5	0	0	0	0	8
6:15 PM	5	0	0	5	2	2	0	4	0	2	0	2	11
6:30 PM	4	0	0	4	2	1	0	3	0	0	0	0	7
6:45 PM	2	0	0	2	3	3	0	6	0	1	0	1	9
Total	14	0	0	14	10	8	0	18	0	3	0	3	35
Grand Total	213	0	0	213	81	84	0	165	0	84	0	84	462
Approach %	100.0	0.0	0.0		49.1	50.9	0.0		0.0	100.0	0.0		
Total %	46.1	0.0	0.0	46.1	17.5	18.2	0.0	35.7	0.0	18.2	0.0	18.2	

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



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Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
Exiting Leg Total	165				0				297				462
Buses	125	0	0	125	81	83	0	164	0	9	0	9	298
% Buses	58.7	0.0	0.0	58.7	100.0	98.8	0.0	99.4	0.0	10.7	0.0	10.7	64.5
Exiting Leg Total	90				0				208				298
Single-Unit Trucks	82	0	0	82	0	0	0	0	0	68	0	68	150
% Single-Unit	38.5	0.0	0.0	38.5	0.0	0.0	0.0	0.0	0.0	81.0	0.0	81.0	32.5
Exiting Leg Total	68				0				82				150
Articulated Trucks	6	0	0	6	0	1	0	1	0	7	0	7	14
% Articulated	2.8	0.0	0.0	2.8	0.0	1.2	0.0	0.6	0.0	8.3	0.0	8.3	3.0
Exiting Leg Total	7				0				7				14

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
8:15 AM	6	0	0	6	2	4	0	6	0	4	0	4	16
8:30 AM	9	0	0	9	5	1	0	6	0	2	0	2	17
8:45 AM	6	0	0	6	3	2	0	5	0	2	0	2	13
9:00 AM	10	0	0	10	1	1	0	2	0	1	0	1	13
Total Volume	31	0	0	31	11	8	0	19	0	9	0	9	59
% Approach Total	100.0	0.0	0.0		57.9	42.1	0.0		0.0	100.0	0.0		
PHF	0.775	0.000	0.000	0.775	0.550	0.500	0.000	0.792	0.000	0.563	0.000	0.563	0.868
Buses	15	0	0	15	11	8	0	19	0	0	0	0	34
Buses %	48.4	0.0	0.0	48.4	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	57.6
Single-Unit Trucks	15	0	0	15	0	0	0	0	0	7	0	7	22
Single-Unit %	48.4	0.0	0.0	48.4	0.0	0.0	0.0	0.0	0.0	77.8	0.0	77.8	37.3
Articulated Trucks	1	0	0	1	0	0	0	0	0	2	0	2	3
Articulated %	3.2	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	22.2	0.0	22.2	5.1
Buses	15	0	0	15	11	8	0	19	0	0	0	0	34
Single-Unit Trucks	15	0	0	15	0	0	0	0	0	7	0	7	22
Articulated Trucks	1	0	0	1	0	0	0	0	0	2	0	2	3
Total Entering Leg	31	0	0	31	11	8	0	19	0	9	0	9	59
Buses	11				0				23				34
Single-Unit Trucks	7				0				15				22
Articulated Trucks	2				0				1				3
Total Exiting Leg	20				0				39				59

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
10:15 AM	8	0	0	8	2	0	0	2	0	2	0	2	12
10:30 AM	5	0	0	5	1	3	0	4	0	7	0	7	16
10:45 AM	1	0	0	1	1	1	0	2	0	1	0	1	4
11:00 AM	5	0	0	5	3	0	0	3	0	3	0	3	11
Total Volume	19	0	0	19	7	4	0	11	0	13	0	13	43
% Approach Total	100.0	0.0	0.0		63.6	36.4	0.0		0.0	100.0	0.0		
PHF	0.594	0.000	0.000	0.594	0.583	0.333	0.000	0.688	0.000	0.464	0.000	0.464	0.672
Buses	9	0	0	9	7	4	0	11	0	0	0	0	20
Buses %	47.4	0.0	0.0	47.4	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	46.5
Single-Unit Trucks	9	0	0	9	0	0	0	0	0	11	0	11	20
Single-Unit %	47.4	0.0	0.0	47.4	0.0	0.0	0.0	0.0	0.0	84.6	0.0	84.6	46.5
Articulated Trucks	1	0	0	1	0	0	0	0	0	2	0	2	3
Articulated %	5.3	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	15.4	0.0	15.4	7.0
Buses	9	0	0	9	7	4	0	11	0	0	0	0	20
Single-Unit Trucks	9	0	0	9	0	0	0	0	0	11	0	11	20
Articulated Trucks	1	0	0	1	0	0	0	0	0	2	0	2	3
Total Entering Leg	19	0	0	19	7	4	0	11	0	13	0	13	43
Buses	7				0				13				20
Single-Unit Trucks	11				0				9				20
Articulated Trucks	2				0				1				3
Total Exiting Leg	20				0				23				43

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class:

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
3:00 PM	College Avenue				Somerville Community Path (Bus Access)				College Avenue				
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
3:00 PM	3	0	0	3	1	3	0	4	0	6	0	6	13
3:15 PM	2	0	0	2	1	3	0	4	0	0	0	0	6
3:30 PM	4	0	0	4	2	2	0	4	0	2	0	2	10
3:45 PM	3	0	0	3	2	1	0	3	0	4	0	4	10
Total Volume	12	0	0	12	6	9	0	15	0	12	0	12	39
% Approach Total	100.0	0.0	0.0		40.0	60.0	0.0		0.0	100.0	0.0		
PHF	0.750	0.000	0.000	0.750	0.750	0.750	0.000	0.938	0.000	0.500	0.000	0.500	0.750
Buses	10	0	0	10	6	8	0	14	0	2	0	2	26
Buses %	83.3	0.0	0.0	83.3	100.0	88.9	0.0	93.3	0.0	16.7	0.0	16.7	66.7
Single-Unit Trucks	2	0	0	2	0	0	0	0	0	9	0	9	11
Single-Unit %	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	75.0	0.0	75.0	28.2
Articulated Trucks	0	0	0	0	0	1	0	1	0	1	0	1	2
Articulated %	0.0	0.0	0.0	0.0	0.0	11.1	0.0	6.7	0.0	8.3	0.0	8.3	5.1
Buses	10	0	0	10	6	8	0	14	0	2	0	2	26
Single-Unit Trucks	2	0	0	2	0	0	0	0	0	9	0	9	11
Articulated Trucks	0	0	0	0	0	1	0	1	0	1	0	1	2
Total Entering Leg	12	0	0	12	6	9	0	15	0	12	0	12	39
Buses				8				0				18	26
Single-Unit Trucks				9				0				2	11
Articulated Trucks				1				0				1	2
Total Exiting Leg				18				0				21	39

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class:

Buses

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	5	0	0	5	2	2	0	4	0	0	0	0	9
7:15 AM	0	0	0	0	2	1	0	3	0	1	0	1	4
7:30 AM	4	0	0	4	1	2	0	3	0	0	0	0	7
7:45 AM	3	0	0	3	2	3	0	5	0	1	0	1	9
Total	12	0	0	12	7	8	0	15	0	2	0	2	29
8:00 AM	4	0	0	4	3	0	0	3	0	0	0	0	7
8:15 AM	4	0	0	4	2	4	0	6	0	0	0	0	10
8:30 AM	4	0	0	4	5	1	0	6	0	0	0	0	10
8:45 AM	3	0	0	3	3	2	0	5	0	0	0	0	8
Total	15	0	0	15	13	7	0	20	0	0	0	0	35
9:00 AM	4	0	0	4	1	1	0	2	0	0	0	0	6
9:15 AM	2	0	0	2	3	1	0	4	0	1	0	1	7
9:30 AM	2	0	0	2	0	3	0	3	0	1	0	1	6
9:45 AM	2	0	0	2	3	1	0	4	0	0	0	0	6
Total	10	0	0	10	7	6	0	13	0	2	0	2	25
10:00 AM	2	0	0	2	0	2	0	2	0	0	0	0	4
10:15 AM	2	0	0	2	2	0	0	2	0	0	0	0	4
10:30 AM	2	0	0	2	1	3	0	4	0	0	0	0	6
10:45 AM	1	0	0	1	1	1	0	2	0	0	0	0	3
Total	7	0	0	7	4	6	0	10	0	0	0	0	17
11:00 AM	4	0	0	4	3	0	0	3	0	0	0	0	7
11:15 AM	1	0	0	1	0	1	0	1	0	0	0	0	2
11:30 AM	3	0	0	3	3	2	0	5	0	0	0	0	8
11:45 AM	3	0	0	3	1	1	0	2	0	0	0	0	5
Total	11	0	0	11	7	4	0	11	0	0	0	0	22
12:00 PM	2	0	0	2	1	3	0	4	0	0	0	0	6
12:15 PM	2	0	0	2	2	0	0	2	0	0	0	0	4
12:30 PM	4	0	0	4	0	1	0	1	0	1	0	1	6
12:45 PM	1	0	0	1	2	3	0	5	0	0	0	0	6
Total	9	0	0	9	5	7	0	12	0	1	0	1	22
1:00 PM	3	0	0	3	1	1	0	2	0	1	0	1	6
1:15 PM	0	0	0	0	1	1	0	2	0	0	0	0	2
1:30 PM	3	0	0	3	1	1	0	2	0	0	0	0	5
1:45 PM	1	0	0	1	0	3	0	3	0	0	0	0	4
Total	7	0	0	7	3	6	0	9	0	1	0	1	17
2:00 PM	1	0	0	1	1	1	0	2	0	0	0	0	3
2:15 PM	2	0	0	2	1	1	0	2	0	0	0	0	4
2:30 PM	1	0	0	1	0	3	0	3	0	0	0	0	4
2:45 PM	1	0	0	1	0	4	0	4	0	1	0	1	6
Total	5	0	0	5	2	9	0	11	0	1	0	1	17
3:00 PM	2	0	0	2	1	2	0	3	0	1	0	1	6
3:15 PM	2	0	0	2	1	3	0	4	0	0	0	0	6
3:30 PM	4	0	0	4	2	2	0	4	0	0	0	0	8
3:45 PM	2	0	0	2	2	1	0	3	0	1	0	1	6
Total	10	0	0	10	6	8	0	14	0	2	0	2	26
4:00 PM	5	0	0	5	2	2	0	4	0	0	0	0	9
4:15 PM	2	0	0	2	2	1	0	3	0	0	0	0	5
4:30 PM	3	0	0	3	2	2	0	4	0	0	0	0	7
4:45 PM	4	0	0	4	3	3	0	6	0	0	0	0	10
Total	14	0	0	14	9	8	0	17	0	0	0	0	31
5:00 PM	3	0	0	3	2	1	0	3	0	0	0	0	6
5:15 PM	3	0	0	3	2	2	0	4	0	0	0	0	7
5:30 PM	4	0	0	4	3	1	0	4	0	0	0	0	8
5:45 PM	3	0	0	3	1	2	0	3	0	0	0	0	6
Total	13	0	0	13	8	6	0	14	0	0	0	0	27
6:00 PM	3	0	0	3	3	2	0	5	0	0	0	0	8
6:15 PM	4	0	0	4	2	2	0	4	0	0	0	0	8
6:30 PM	3	0	0	3	2	1	0	3	0	0	0	0	6
6:45 PM	2	0	0	2	3	3	0	6	0	0	0	0	8
Total	12	0	0	12	10	8	0	18	0	0	0	0	30
Grand Total	125	0	0	125	81	83	0	164	0	9	0	9	298

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
Approach %	100.0	0.0	0.0		49.4	50.6	0.0		0.0	100.0	0.0		
Total %	41.9	0.0	0.0	41.9	27.2	27.9	0.0	55.0	0.0	3.0	0.0	3.0	
Exiting Leg Total	90				0				208				298

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:45 AM	3	0	0	3	2	3	0	5	0	1	0	1	9
8:00 AM	4	0	0	4	3	0	0	3	0	0	0	0	7
8:15 AM	4	0	0	4	2	4	0	6	0	0	0	0	10
8:30 AM	4	0	0	4	5	1	0	6	0	0	0	0	10
Total Volume	15	0	0	15	12	8	0	20	0	1	0	1	36
% Approach Total	100.0	0.0	0.0		60.0	40.0	0.0		0.0	100.0	0.0		
PHF	0.938	0.000	0.000	0.938	0.600	0.500	0.000	0.833	0.000	0.250	0.000	0.250	0.900
Entering Leg	15	0	0	15	12	8	0	20	0	1	0	1	36
Exiting Leg													23
Total	28				20				24				72

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:30 AM	3	0	0	3	3	2	0	5	0	0	0	0	8
11:45 AM	3	0	0	3	1	1	0	2	0	0	0	0	5
12:00 PM	2	0	0	2	1	3	0	4	0	0	0	0	6
12:15 PM	2	0	0	2	2	0	0	2	0	0	0	0	4
Total Volume	10	0	0	10	7	6	0	13	0	0	0	0	23
% Approach Total	100.0	0.0	0.0		53.8	46.2	0.0		0.0	0.0	0.0		
PHF	0.833	0.000	0.000	0.833	0.583	0.500	0.000	0.650	0.000	0.000	0.000	0.000	0.719
Entering Leg	10	0	0	10	7	6	0	13	0	0	0	0	23
Exiting Leg													16
Total	17				13				16				46

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	5	0	0	5	2	2	0	4	0	0	0	0	9
4:15 PM	2	0	0	2	2	1	0	3	0	0	0	0	5
4:30 PM	3	0	0	3	2	2	0	4	0	0	0	0	7
4:45 PM	4	0	0	4	3	3	0	6	0	0	0	0	10
Total Volume	14	0	0	14	9	8	0	17	0	0	0	0	31
% Approach Total	100.0	0.0	0.0		52.9	47.1	0.0		0.0	0.0	0.0		
PHF	0.700	0.000	0.000	0.700	0.750	0.667	0.000	0.708	0.000	0.000	0.000	0.000	0.775
Entering Leg	14	0	0	14	9	8	0	17	0	0	0	0	31
Exiting Leg													22
Total	23				17				22				62

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	5	0	0	5	0	0	0	0	0	0	0	0	5
7:15 AM	2	0	0	2	0	0	0	0	0	1	0	1	3
7:30 AM	3	0	0	3	0	0	0	0	0	2	0	2	5
7:45 AM	2	0	0	2	0	0	0	0	0	1	0	1	3
Total	12	0	0	12	0	0	0	0	0	4	0	4	16
8:00 AM	3	0	0	3	0	0	0	0	0	1	0	1	4
8:15 AM	2	0	0	2	0	0	0	0	0	3	0	3	5
8:30 AM	5	0	0	5	0	0	0	0	0	2	0	2	7
8:45 AM	2	0	0	2	0	0	0	0	0	1	0	1	3
Total	12	0	0	12	0	0	0	0	0	7	0	7	19
9:00 AM	6	0	0	6	0	0	0	0	0	1	0	1	7
9:15 AM	3	0	0	3	0	0	0	0	0	2	0	2	5
9:30 AM	3	0	0	3	0	0	0	0	0	4	0	4	7
9:45 AM	5	0	0	5	0	0	0	0	0	1	0	1	6
Total	17	0	0	17	0	0	0	0	0	8	0	8	25
10:00 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
10:15 AM	6	0	0	6	0	0	0	0	0	2	0	2	8
10:30 AM	2	0	0	2	0	0	0	0	0	6	0	6	8
10:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	9	0	0	9	0	0	0	0	0	11	0	11	20
11:00 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
11:15 AM	3	0	0	3	0	0	0	0	0	0	0	0	3
11:30 AM	5	0	0	5	0	0	0	0	0	0	0	0	5
11:45 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
Total	10	0	0	10	0	0	0	0	0	3	0	3	13
12:00 PM	0	0	0	0	0	0	0	0	0	2	0	2	2
12:15 PM	2	0	0	2	0	0	0	0	0	3	0	3	5
12:30 PM	2	0	0	2	0	0	0	0	0	1	0	1	3
12:45 PM	4	0	0	4	0	0	0	0	0	2	0	2	6
Total	8	0	0	8	0	0	0	0	0	8	0	8	16
1:00 PM	4	0	0	4	0	0	0	0	0	0	0	0	4
1:15 PM	0	0	0	0	0	0	0	0	0	4	0	4	4
1:30 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
1:45 PM	0	0	0	0	0	0	0	0	0	3	0	3	3
Total	5	0	0	5	0	0	0	0	0	8	0	8	13
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	3	0	0	3	0	0	0	0	0	1	0	1	4
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	3	0	0	3	0	0	0	0	0	2	0	2	5
3:00 PM	1	0	0	1	0	0	0	0	0	5	0	5	6
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	2	0	2	2
3:45 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
Total	2	0	0	2	0	0	0	0	0	9	0	9	11
4:00 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
4:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	1	0	0	1	0	0	0	0	0	3	0	3	4
5:00 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
5:15 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	0	0	0	0	0	2	0	2	3
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
6:30 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
6:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	2	0	0	2	0	0	0	0	0	3	0	3	5
Grand Total	82	0	0	82	0	0	0	0	0	68	0	68	150

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	54.7	0.0	0.0	54.7	0.0	0.0	0.0	0.0	0.0	45.3	0.0	45.3	
Exiting Leg Total	68				0				82				150

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
9:00 AM	6	0	0	6	0	0	0	0	0	1	0	1	7
9:15 AM	3	0	0	3	0	0	0	0	0	2	0	2	5
9:30 AM	3	0	0	3	0	0	0	0	0	4	0	4	7
9:45 AM	5	0	0	5	0	0	0	0	0	1	0	1	6
Total Volume	17	0	0	17	0	0	0	0	0	8	0	8	25
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.708	0.000	0.000	0.708	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.893
Entering Leg	17	0	0	17	0	0	0	0	0	8	0	8	25
Exiting Leg													17
Total	25				0				25				50

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
10:00 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
10:15 AM	6	0	0	6	0	0	0	0	0	2	0	2	8
10:30 AM	2	0	0	2	0	0	0	0	0	6	0	6	8
10:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total Volume	9	0	0	9	0	0	0	0	0	11	0	11	20
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.375	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.458	0.000	0.458	0.625
Entering Leg	9	0	0	9	0	0	0	0	0	11	0	11	20
Exiting Leg													9
Total	20				0				20				40

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
2:15 PM	3	0	0	3	0	0	0	0	0	1	0	1	4
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
3:00 PM	1	0	0	1	0	0	0	0	0	5	0	5	6
Total Volume	4	0	0	4	0	0	0	0	0	7	0	7	11
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.333	0.000	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.350	0.000	0.350	0.458
Entering Leg	4	0	0	4	0	0	0	0	0	7	0	7	11
Exiting Leg													4
Total	11				0				11				22

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	0	0	2	0	0	0	0	0	0	0	0	2
8:00 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
Total	2	0	0	2	0	0	0	0	0	2	0	2	4
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	0	0	0	0	0	1	0	1	2
11:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
11:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	1	0	0	1	0	0	0	0	0	3	0	3	4
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	1
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	0	0	0	1	0	1	0	1	0	1	2
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	6	0	0	6	0	1	0	1	0	7	0	7	14

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
Approach %	100.0	0.0	0.0		0.0	100.0	0.0		0.0	100.0	0.0		
Total %	42.9	0.0	0.0	42.9	0.0	7.1	0.0	7.1	0.0	50.0	0.0	50.0	
Exiting Leg Total	7				0				7				14

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:30 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total Volume	3	0	0	3	0	0	0	0	0	1	0	1	4
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.375	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.500
Entering Leg	3	0	0	3	0	0	0	0	0	1	0	1	4
Exiting Leg	1				0				3				4
Total	4				0				4				8

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
11:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total Volume	1	0	0	1	0	0	0	0	0	3	0	3	4
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.750	0.500
Entering Leg	1	0	0	1	0	0	0	0	0	3	0	3	4
Exiting Leg	3				0				1				4
Total	4				0				4				8

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
3:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	1
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
Total Volume	0	0	0	0	0	1	0	1	0	1	0	1	2
% Approach Total	0.0	0.0	0.0		0.0	100.0	0.0		0.0	100.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.250	0.000	0.250	0.500
Entering Leg	0	0	0	0	0	1	0	1	0	1	0	1	2
Exiting Leg	1				0				1				2
Total	1				1				2				4

PDI File #: 207718 B
 Location: S: Somerville Community Path (Bus Access)
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	College Avenue						Somerville Community Path (Bus Access)						College Avenue						Total
	from East						from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	2	1	0	0	0	3	0	2	0	0	0	2	0	0	0	1	1	2	7
Total	4	1	0	0	0	5	0	3	0	0	0	3	0	0	0	1	1	2	10
8:00 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
8:15 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	2	1	0	0	0	3	0	0	0	0	1	1	0	2	0	0	0	2	6
Total	3	1	0	1	0	5	0	0	0	0	1	1	0	3	0	0	0	3	9
9:00 AM	2	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3
9:15 AM	2	0	0	1	1	4	0	1	0	0	0	1	0	1	0	0	0	1	6
9:30 AM	5	0	0	2	0	7	0	2	0	0	0	2	0	0	0	1	0	1	10
9:45 AM	0	1	0	1	1	3	1	0	0	0	1	2	0	1	0	0	1	2	7
Total	9	1	0	4	3	17	1	3	0	0	1	5	0	2	0	1	1	4	26
10:00 AM	2	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	3
10:15 AM	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	0	1	2	4
10:30 AM	0	0	0	0	1	1	0	2	0	0	0	2	0	1	0	0	0	1	4
10:45 AM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	1	0	1	3
Total	2	0	0	0	3	5	0	4	0	0	0	4	1	2	0	1	1	5	14
11:00 AM	3	0	0	0	1	4	1	0	0	0	0	1	0	0	0	0	0	0	5
11:15 AM	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	2	3
11:30 AM	1	1	0	3	0	5	0	0	0	0	0	0	0	1	0	0	0	1	6
11:45 AM	2	1	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	7	2	0	4	1	14	1	0	0	0	0	1	1	2	0	0	0	3	18
12:00 PM	3	0	0	0	0	3	0	1	0	0	0	1	0	3	0	0	0	3	7
12:15 PM	1	0	0	1	0	2	0	1	0	0	0	1	0	0	0	0	0	0	3
12:30 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	2	0	0	0	2	3
12:45 PM	1	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	3
Total	5	0	0	1	1	7	0	3	0	0	0	3	0	6	0	0	0	6	16
1:00 PM	1	0	0	0	0	1	0	2	0	0	0	2	0	1	0	1	0	2	5
1:15 PM	7	0	0	0	0	7	2	1	0	0	0	3	1	2	0	1	0	4	14
1:30 PM	3	1	0	1	0	5	0	1	0	0	0	1	0	1	0	0	0	1	7
1:45 PM	2	1	0	3	2	8	0	1	0	0	0	1	1	3	0	0	1	5	14
Total	13	2	0	4	2	21	2	5	0	0	0	7	2	7	0	2	1	12	40
2:00 PM	0	0	0	1	1	2	0	0	0	1	0	1	1	0	0	0	1	2	5
2:15 PM	2	0	0	0	2	4	0	0	0	0	0	0	0	1	0	0	1	2	6
2:30 PM	1	2	0	2	1	6	0	1	0	0	0	1	0	2	0	0	0	2	9
2:45 PM	2	0	0	0	0	2	0	3	0	0	1	4	0	3	0	1	0	4	10
Total	5	2	0	3	4	14	0	4	0	1	1	6	1	6	0	1	2	10	30
3:00 PM	2	1	0	2	0	5	0	2	0	0	0	2	0	0	0	1	0	1	8
3:15 PM	4	0	0	2	2	8	1	0	0	0	0	1	1	0	0	1	1	3	12
3:30 PM	4	2	0	5	3	14	0	3	0	0	1	4	1	1	0	0	1	3	21
3:45 PM	1	4	1	4	1	11	0	3	0	0	0	3	2	1	0	0	2	5	19
Total	11	7	1	13	6	38	1	8	0	0	1	10	4	2	0	2	4	12	60
4:00 PM	3	0	0	0	0	3	2	0	0	0	0	2	2	2	0	0	1	5	10
4:15 PM	1	0	0	1	0	2	0	1	0	0	0	1	0	3	0	0	0	3	6
4:30 PM	0	0	0	1	0	1	0	1	0	2	0	3	1	2	0	0	1	4	8
4:45 PM	2	0	0	0	0	2	0	1	0	0	0	1	0	1	0	0	0	1	4
Total	6	0	0	2	0	8	2	3	0	2	0	7	3	8	0	0	2	13	28
5:00 PM	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	4
5:15 PM	2	1	0	1	2	6	3	0	0	0	0	3	0	2	0	0	1	3	12
5:30 PM	3	0	0	1	0	4	0	0	0	0	0	0	2	5	0	0	3	10	14
5:45 PM	1	0	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	2	4
Total	8	1	0	2	2	13	4	1	0	0	0	5	4	8	0	0	4	16	34
6:00 PM	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	2
6:15 PM	2	0	0	0	0	2	0	3	0	0	0	3	0	1	0	0	0	1	6
6:30 PM	2	0	0	1	0	3	0	1	0	0	0	1	0	0	0	0	2	2	6
6:45 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
Total	6	0	0	1	0	7	0	4	0	0	0	4	1	2	0	0	2	5	16
Grand Total	79	17	1	35	22	154	11	38	0	3	4	56	17	48	0	8	18	91	301

PDI File #: 207718 B
 Location: S: Somerville Community Path (Bus Access)
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM



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Bicycles (on Roadway and Crosswalks)

	College Avenue							Somerville Community Path (Bus Access)						College Avenue						Total
	from East							from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total		
Approach %	51.3	11.0	0.6	22.7	14.3		19.6	67.9	0.0	5.4	7.1		18.7	52.7	0.0	8.8	19.8			
Total %	26.2	5.6	0.3	11.6	7.3	51.2	3.7	12.6	0.0	1.0	1.3	18.6	5.6	15.9	0.0	2.7	6.0	30.2		
Exiting Leg Total	117							41						143						301

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue							Somerville Community Path (Bus Access)						College Avenue						Total
	from East							from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total		
9:00 AM	2	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9:15 AM	2	0	0	1	1	4	0	1	0	0	0	1	0	1	0	0	0	0	1	6
9:30 AM	5	0	0	2	0	7	0	2	0	0	0	2	0	0	0	1	0	1	10	
9:45 AM	0	1	0	1	1	3	1	0	0	0	1	2	0	1	0	0	1	2	7	
Total Volume	9	1	0	4	3	17	1	3	0	0	1	5	0	2	0	1	1	4	26	
% Approach Total	52.9	5.9	0.0	23.5	17.6		20.0	60.0	0.0	0.0	20.0		0.0	50.0	0.0	25.0	25.0			
PHF	0.450	0.250	0.000	0.500	0.750	0.607	0.250	0.375	0.000	0.000	0.250	0.625	0.000	0.500	0.000	0.250	0.250	0.500	0.650	
Entering Leg	9	1	0	4	3	17	1	3	0	0	1	5	0	2	0	1	1	4	26	
Exiting Leg	10							2						14						26
Total	27							7						18						52

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue							Somerville Community Path (Bus Access)						College Avenue						Total
	from East							from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total		
1:00 PM	1	0	0	0	0	1	0	2	0	0	0	2	0	1	0	1	0	2	5	
1:15 PM	7	0	0	0	0	7	2	1	0	0	0	3	1	2	0	1	0	4	14	
1:30 PM	3	1	0	1	0	5	0	1	0	0	0	1	0	1	0	0	0	1	7	
1:45 PM	2	1	0	3	2	8	0	1	0	0	0	1	1	3	0	0	1	5	14	
Total Volume	13	2	0	4	2	21	2	5	0	0	0	7	2	7	0	2	1	12	40	
% Approach Total	61.9	9.5	0.0	19.0	9.5		28.6	71.4	0.0	0.0	0.0		16.7	58.3	0.0	16.7	8.3			
PHF	0.464	0.500	0.000	0.333	0.250	0.656	0.250	0.625	0.000	0.000	0.000	0.583	0.500	0.583	0.000	0.500	0.250	0.600	0.714	
Entering Leg	13	2	0	4	2	21	2	5	0	0	0	7	2	7	0	2	1	12	40	
Exiting Leg	15							4						21						40
Total	36							11						33						80

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	College Avenue							Somerville Community Path (Bus Access)						College Avenue						Total
	from East							from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total		
3:15 PM	4	0	0	2	2	8	1	0	0	0	0	1	1	0	0	1	1	3	12	
3:30 PM	4	2	0	5	3	14	0	3	0	0	1	4	1	1	0	0	1	3	21	
3:45 PM	1	4	1	4	1	11	0	3	0	0	0	3	2	1	0	0	2	5	19	
4:00 PM	3	0	0	0	0	3	2	0	0	0	0	2	2	2	0	0	1	5	10	
Total Volume	12	6	1	11	6	36	3	6	0	0	1	10	6	4	0	1	5	16	62	
% Approach Total	33.3	16.7	2.8	30.6	16.7		30.0	60.0	0.0	0.0	10.0		37.5	25.0	0.0	6.3	31.3			
PHF	0.750	0.375	0.250	0.550	0.500	0.643	0.375	0.500	0.000	0.000	0.250	0.625	0.750	0.500	0.000	0.250	0.625	0.800	0.738	
Entering Leg	12	6	1	11	6	36	3	6	0	0	1	10	6	4	0	1	5	16	62	
Exiting Leg	25							13						24						62
Total	61							23						40						124

PDI File #: 207718 B
 Location: S: Somerville Community Path (Bus Access)
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	College Avenue							Somerville Community Path (Bus Access)							College Avenue							Total
	from East							from South							from West							
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total				
7:00 AM	0	0	0	34	9	43	0	0	0	9	4	13	0	0	0	1	0	1	57			
7:15 AM	0	0	0	13	14	27	0	0	0	5	4	9	0	0	0	5	0	5	41			
7:30 AM	0	0	0	24	13	37	0	0	0	9	5	14	0	0	0	4	3	7	58			
7:45 AM	0	0	0	11	11	22	0	0	0	9	9	18	0	0	0	5	2	7	47			
Total	0	0	0	82	47	129	0	0	0	32	22	54	0	0	0	15	5	20	203			
8:00 AM	0	0	0	22	7	29	0	0	0	15	8	23	0	0	0	2	4	6	58			
8:15 AM	0	0	0	23	9	32	0	0	0	15	12	27	0	0	0	9	7	16	75			
8:30 AM	0	0	0	12	10	22	0	0	0	13	8	21	0	0	0	3	6	9	52			
8:45 AM	0	0	0	14	8	22	0	0	0	9	5	14	0	0	0	6	3	9	45			
Total	0	0	0	71	34	105	0	0	0	52	33	85	0	0	0	20	20	40	230			
9:00 AM	0	0	0	12	2	14	0	0	0	11	8	19	0	0	0	6	4	10	43			
9:15 AM	0	0	0	17	7	24	0	0	0	12	6	18	0	0	0	2	7	9	51			
9:30 AM	0	0	0	9	5	14	0	0	0	19	10	29	0	0	0	6	4	10	53			
9:45 AM	0	0	0	15	2	17	0	0	0	13	9	22	0	0	0	5	3	8	47			
Total	0	0	0	53	16	69	0	0	0	55	33	88	0	0	0	19	18	37	194			
10:00 AM	0	0	0	14	6	20	0	0	0	14	6	20	0	0	0	4	3	7	47			
10:15 AM	0	0	0	18	5	23	0	0	0	10	11	21	0	0	0	7	2	9	53			
10:30 AM	0	0	0	7	9	16	0	0	0	6	7	13	0	0	0	1	4	5	34			
10:45 AM	0	0	0	16	4	20	0	0	0	5	9	14	0	0	0	4	4	8	42			
Total	0	0	0	55	24	79	0	0	0	35	33	68	0	0	0	16	13	29	176			
11:00 AM	0	0	0	21	5	26	0	0	0	15	9	24	0	0	0	7	1	8	58			
11:15 AM	0	0	0	13	17	30	0	0	0	15	12	27	0	0	0	3	7	10	67			
11:30 AM	0	0	0	17	13	30	0	0	0	13	6	19	0	0	0	7	8	15	64			
11:45 AM	0	0	0	14	13	27	0	0	0	19	9	28	0	0	0	9	5	14	69			
Total	0	0	0	65	48	113	0	0	0	62	36	98	0	0	0	26	21	47	258			
12:00 PM	0	0	0	19	8	27	0	0	0	22	14	36	0	0	0	13	11	24	87			
12:15 PM	0	0	0	20	13	33	0	0	0	15	17	32	0	0	0	14	11	25	90			
12:30 PM	0	0	0	21	13	34	0	0	0	16	17	33	0	0	0	8	6	14	81			
12:45 PM	0	0	0	14	11	25	0	0	0	30	14	44	0	0	0	6	7	13	82			
Total	0	0	0	74	45	119	0	0	0	83	62	145	0	0	0	41	35	76	340			
1:00 PM	0	0	0	11	17	28	0	0	0	15	25	40	0	0	0	8	16	24	92			
1:15 PM	0	0	0	11	13	24	0	0	0	18	20	38	0	0	0	9	3	12	74			
1:30 PM	0	0	0	22	11	33	0	0	0	21	20	41	0	0	0	12	11	23	97			
1:45 PM	0	0	0	19	18	37	0	0	0	24	23	47	0	0	0	12	7	19	103			
Total	0	0	0	63	59	122	0	0	0	78	88	166	0	0	0	41	37	78	366			
2:00 PM	0	0	0	19	12	31	0	0	0	18	13	31	0	0	0	9	2	11	73			
2:15 PM	0	0	0	21	7	28	0	0	0	16	19	35	0	0	0	10	6	16	79			
2:30 PM	0	0	0	20	17	37	0	0	0	22	18	40	0	0	0	18	11	29	106			
2:45 PM	0	0	0	12	17	29	0	0	0	6	25	31	0	0	0	9	8	17	77			
Total	0	0	0	72	53	125	0	0	0	62	75	137	0	0	0	46	27	73	335			
3:00 PM	0	0	0	18	10	28	0	0	0	24	9	33	0	0	0	15	13	28	89			
3:15 PM	0	0	0	14	19	33	0	0	0	12	13	25	0	0	0	11	17	28	86			
3:30 PM	0	0	0	25	20	45	0	0	0	11	21	32	0	0	0	11	11	22	99			
3:45 PM	0	0	0	15	9	24	0	0	0	25	23	48	0	0	0	4	8	12	84			
Total	0	0	0	72	58	130	0	0	0	72	66	138	0	0	0	41	49	90	358			
4:00 PM	0	0	0	31	19	50	0	0	0	12	20	32	0	0	0	4	11	15	97			
4:15 PM	0	0	0	21	16	37	0	0	0	20	34	54	0	0	0	8	12	20	111			
4:30 PM	0	0	0	18	23	41	0	0	0	23	30	53	0	0	0	20	12	32	126			
4:45 PM	0	0	0	21	18	39	0	0	0	21	32	53	0	0	0	12	13	25	117			
Total	0	0	0	91	76	167	0	0	0	76	116	192	0	0	0	44	48	92	451			
5:00 PM	0	0	0	13	7	20	0	0	0	14	29	43	0	0	0	9	9	18	81			
5:15 PM	0	0	0	21	15	36	0	0	0	20	20	40	0	0	0	12	12	24	100			
5:30 PM	0	0	0	28	14	42	0	0	0	21	27	48	0	0	0	7	9	16	106			
5:45 PM	0	0	0	23	14	37	0	0	0	16	16	32	0	0	0	8	7	15	84			
Total	0	0	0	85	50	135	0	0	0	71	92	163	0	0	0	36	37	73	371			
6:00 PM	0	0	0	21	16	37	0	0	0	12	13	25	0	0	0	14	9	23	85			
6:15 PM	0	0	0	10	10	20	0	0	0	13	25	38	0	0	0	9	8	17	75			
6:30 PM	0	0	0	17	13	30	0	0	0	12	16	28	0	0	0	9	13	22	80			
6:45 PM	0	0	0	16	17	33	0	0	0	13	13	26	0	0	0	6	1	7	66			
Total	0	0	0	64	56	120	0	0	0	50	67	117	0	0	0	38	31	69	306			
Grand Total	0	0	0	847	566	1413	0	0	0	728	723	1451	0	0	0	383	341	724	3588			

PDI File #: 207718 B
 Location: S: Somerville Community Path (Bus Access)
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	College Avenue						Somerville Community Path (Bus Access)						College Avenue						Total
	from East						from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
Approach %	0	0	0	59.943	40.057		0	0	0	50.172	49.828		0	0	0	52.901	47.099		
Total %	0	0	0	23.606	15.775	39.381	0	0	0	20.29	20.151	40.44	0	0	0	10.674	9.5039	20.178	
Exiting Leg Total	1413						1451						724						3588

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	College Avenue						Somerville Community Path (Bus Access)						College Avenue						Total
	from East						from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
7:30 AM	0	0	0	24	13	37	0	0	0	9	5	14	0	0	0	4	3	7	58
7:45 AM	0	0	0	11	11	22	0	0	0	9	9	18	0	0	0	5	2	7	47
8:00 AM	0	0	0	22	7	29	0	0	0	15	8	23	0	0	0	2	4	6	58
8:15 AM	0	0	0	23	9	32	0	0	0	15	12	27	0	0	0	9	7	16	75
Total Volume	0	0	0	80	40	120	0	0	0	48	34	82	0	0	0	20	16	36	238
% Approach Total	0.0	0.0	0.0	66.7	33.3		0.0	0.0	0.0	58.5	41.5		0.0	0.0	0.0	55.6	44.4		
PHF	0.000	0.000	0.000	0.833	0.769	0.811	0.000	0.000	0.000	0.800	0.708	0.759	0.000	0.000	0.000	0.556	0.571	0.563	0.793
Entering Leg	0	0	0	80	40	120	0	0	0	48	34	82	0	0	0	20	16	36	238
Exiting Leg	120						82						36						238
Total	240						164						72						476

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	College Avenue						Somerville Community Path (Bus Access)						College Avenue						Total
	from East						from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
1:00 PM	0	0	0	11	17	28	0	0	0	15	25	40	0	0	0	8	16	24	92
1:15 PM	0	0	0	11	13	24	0	0	0	18	20	38	0	0	0	9	3	12	74
1:30 PM	0	0	0	22	11	33	0	0	0	21	20	41	0	0	0	12	11	23	97
1:45 PM	0	0	0	19	18	37	0	0	0	24	23	47	0	0	0	12	7	19	103
Total Volume	0	0	0	63	59	122	0	0	0	78	88	166	0	0	0	41	37	78	366
% Approach Total	0.0	0.0	0.0	51.6	48.4		0.0	0.0	0.0	47.0	53.0		0.0	0.0	0.0	52.6	47.4		
PHF	0.000	0.000	0.000	0.716	0.819	0.824	0.000	0.000	0.000	0.813	0.880	0.883	0.000	0.000	0.000	0.854	0.578	0.813	0.888
Entering Leg	0	0	0	63	59	122	0	0	0	78	88	166	0	0	0	41	37	78	366
Exiting Leg	122						166						78						366
Total	244						332						156						732

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	College Avenue						Somerville Community Path (Bus Access)						College Avenue						Total
	from East						from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	31	19	50	0	0	0	12	20	32	0	0	0	4	11	15	97
4:15 PM	0	0	0	21	16	37	0	0	0	20	34	54	0	0	0	8	12	20	111
4:30 PM	0	0	0	18	23	41	0	0	0	23	30	53	0	0	0	20	12	32	126
4:45 PM	0	0	0	21	18	39	0	0	0	21	32	53	0	0	0	12	13	25	117
Total Volume	0	0	0	91	76	167	0	0	0	76	116	192	0	0	0	44	48	92	451
% Approach Total	0.0	0.0	0.0	54.5	45.5		0.0	0.0	0.0	39.6	60.4		0.0	0.0	0.0	47.8	52.2		
PHF	0.000	0.000	0.000	0.734	0.826	0.835	0.000	0.000	0.000	0.826	0.853	0.889	0.000	0.000	0.000	0.550	0.923	0.719	0.895
Entering Leg	0	0	0	91	76	167	0	0	0	76	116	192	0	0	0	44	48	92	451
Exiting Leg	167						192						92						451
Total	334						384						184						902

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	71	0	0	71	1	1	0	2	0	62	0	62	135
11:15 AM	59	0	0	59	1	1	0	2	0	59	0	59	120
11:30 AM	66	0	0	66	1	2	0	3	0	77	0	77	146
11:45 AM	77	0	0	77	2	1	0	3	0	56	0	56	136
Total	273	0	0	273	5	5	0	10	0	254	0	254	537
12:00 PM	75	0	0	75	1	2	0	3	0	57	0	57	135
12:15 PM	63	0	0	63	1	0	0	1	0	75	0	75	139
12:30 PM	62	0	0	62	1	4	0	5	0	60	0	60	127
12:45 PM	72	0	0	72	2	2	0	4	0	64	0	64	140
Total	272	0	0	272	5	8	0	13	0	256	0	256	541
1:00 PM	65	0	0	65	0	1	0	1	0	49	0	49	115
1:15 PM	58	0	0	58	2	1	0	3	0	77	0	77	138
1:30 PM	71	0	0	71	3	2	0	5	0	62	0	62	138
1:45 PM	71	0	0	71	1	1	0	2	0	72	0	72	145
Total	265	0	0	265	6	5	0	11	0	260	0	260	536
Grand Total	810	0	0	810	16	18	0	34	0	770	0	770	1614
Approach %	100.0	0.0	0.0		47.1	52.9	0.0		0.0	100.0	0.0		
Total %	50.2	0.0	0.0	50.2	1.0	1.1	0.0	2.1	0.0	47.7	0.0	47.7	
Exiting Leg Total				786				0				828	1614
Cars	789	0	0	789	1	0	0	1	0	754	0	754	1544
% Cars	97.4	0.0	0.0	97.4	6.3	0.0	0.0	2.9	0.0	97.9	0.0	97.9	95.7
Exiting Leg Total				755				0				789	1544
Heavy Vehicles	21	0	0	21	15	18	0	33	0	16	0	16	70
% Heavy Vehicles	2.6	0.0	0.0	2.6	93.8	100.0	0.0	97.1	0.0	2.1	0.0	2.1	4.3
Exiting Leg Total				31				0				39	70

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:30 AM	66	0	0	66	1	2	0	3	0	77	0	77	146
11:45 AM	77	0	0	77	2	1	0	3	0	56	0	56	136
12:00 PM	75	0	0	75	1	2	0	3	0	57	0	57	135
12:15 PM	63	0	0	63	1	0	0	1	0	75	0	75	139
Total Volume	281	0	0	281	5	5	0	10	0	265	0	265	556
% Approach Total	100.0	0.0	0.0		50.0	50.0	0.0		0.0	100.0	0.0		
PHF	0.912	0.000	0.000	0.912	0.625	0.625	0.000	0.833	0.000	0.860	0.000	0.860	0.952
Cars	273	0	0	273	0	0	0	0	0	258	0	258	531
Cars %	97.2	0.0	0.0	97.2	0.0	0.0	0.0	0.0	0.0	97.4	0.0	97.4	95.5
Heavy Vehicles	8	0	0	8	5	5	0	10	0	7	0	7	25
Heavy Vehicles %	2.8	0.0	0.0	2.8	100.0	100.0	0.0	100.0	0.0	2.6	0.0	2.6	4.5
Cars Enter Leg	273	0	0	273	0	0	0	0	0	258	0	258	531
Heavy Enter Leg	8	0	0	8	5	5	0	10	0	7	0	7	25
Total Entering Leg	281	0	0	281	5	5	0	10	0	265	0	265	556
Cars Exiting Leg				258				0				273	531
Heavy Exiting Leg				12				0				13	25
Total Exiting Leg				270				0				286	556

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total	
	from East				from South				from West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:00 AM	67	0	0	67	0	0	0	0	0	0	60	0	60	127
11:15 AM	59	0	0	59	0	0	0	0	0	0	58	0	58	117
11:30 AM	64	0	0	64	0	0	0	0	0	0	75	0	75	139
11:45 AM	74	0	0	74	0	0	0	0	0	0	55	0	55	129
Total	264	0	0	264	0	0	0	0	0	0	248	0	248	512
12:00 PM	73	0	0	73	0	0	0	0	0	0	57	0	57	130
12:15 PM	62	0	0	62	0	0	0	0	0	0	71	0	71	133
12:30 PM	60	0	0	60	0	0	0	0	0	0	59	0	59	119
12:45 PM	71	0	0	71	0	0	0	0	0	0	63	0	63	134
Total	266	0	0	266	0	0	0	0	0	0	250	0	250	516
1:00 PM	64	0	0	64	0	0	0	0	0	0	49	0	49	113
1:15 PM	56	0	0	56	0	0	0	0	0	0	76	0	76	132
1:30 PM	68	0	0	68	0	0	0	0	0	0	61	0	61	129
1:45 PM	71	0	0	71	1	0	0	1	0	0	70	0	70	142
Total	259	0	0	259	1	0	0	1	0	0	256	0	256	516
Grand Total	789	0	0	789	1	0	0	1	0	0	754	0	754	1544
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0			
Total %	51.1	0.0	0.0	51.1	0.1	0.0	0.0	0.1	0.0	48.8	0.0		48.8	
Exiting Leg Total				755				0					789	1544

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total	
	from East				from South				from West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:30 AM	64	0	0	64	0	0	0	0	0	0	75	0	75	139
11:45 AM	74	0	0	74	0	0	0	0	0	0	55	0	55	129
12:00 PM	73	0	0	73	0	0	0	0	0	0	57	0	57	130
12:15 PM	62	0	0	62	0	0	0	0	0	0	71	0	71	133
Total Volume	273	0	0	273	0	0	0	0	0	0	258	0	258	531
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0			
PHF	0.922	0.000	0.000	0.922	0.000	0.000	0.000	0.000	0.000	0.860	0.000	0.860	0.955	
Entering Leg	273	0	0	273	0	0	0	0	0	0	258	0	258	531
Exiting Leg				258				0					273	531
Total				531				0					531	1062

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



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Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total	
	from East				from South				from West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:00 AM	4	0	0	4	1	1	0	2	0	2	0	2	8	
11:15 AM	0	0	0	0	1	1	0	2	0	1	0	1	3	
11:30 AM	2	0	0	2	1	2	0	3	0	2	0	2	7	
11:45 AM	3	0	0	3	2	1	0	3	0	1	0	1	7	
Total	9	0	0	9	5	5	0	10	0	6	0	6	25	
12:00 PM	2	0	0	2	1	2	0	3	0	0	0	0	5	
12:15 PM	1	0	0	1	1	0	0	1	0	4	0	4	6	
12:30 PM	2	0	0	2	1	4	0	5	0	1	0	1	8	
12:45 PM	1	0	0	1	2	2	0	4	0	1	0	1	6	
Total	6	0	0	6	5	8	0	13	0	6	0	6	25	
1:00 PM	1	0	0	1	0	1	0	1	0	0	0	0	2	
1:15 PM	2	0	0	2	2	1	0	3	0	1	0	1	6	
1:30 PM	3	0	0	3	3	2	0	5	0	1	0	1	9	
1:45 PM	0	0	0	0	0	1	0	1	0	2	0	2	3	
Total	6	0	0	6	5	5	0	10	0	4	0	4	20	
Grand Total	21	0	0	21	15	18	0	33	0	16	0	16	70	
Approach %	100.0	0.0	0.0		45.5	54.5	0.0		0.0	100.0	0.0			
Total %	30.0	0.0	0.0	30.0	21.4	25.7	0.0	47.1	0.0	22.9	0.0	22.9		
Exiting Leg Total				31				0					39	70
Buses	19	0	0	19	14	18	0	32	0	0	0	0	0	51
% Buses	90.5	0.0	0.0	90.5	93.3	100.0	0.0	97.0	0.0	0.0	0.0	0.0	0.0	72.9
Exiting Leg Total				14				0					37	51
Single-Unit Trucks	2	0	0	2	1	0	0	1	0	16	0	16	19	
% Single-Unit	9.5	0.0	0.0	9.5	6.7	0.0	0.0	3.0	0.0	100.0	0.0	100.0	27.1	
Exiting Leg Total				17				0				2	19	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				0				0	0	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:45 AM	3	0	0	3	2	1	0	3	0	1	0	1	7
12:00 PM	2	0	0	2	1	2	0	3	0	0	0	0	5
12:15 PM	1	0	0	1	1	0	0	1	0	4	0	4	6
12:30 PM	2	0	0	2	1	4	0	5	0	1	0	1	8
Total Volume	8	0	0	8	5	7	0	12	0	6	0	6	26
% Approach Total	100.0	0.0	0.0		41.7	58.3	0.0		0.0	100.0	0.0		
PHF	0.667	0.000	0.000	0.667	0.625	0.438	0.000	0.600	0.000	0.375	0.000	0.375	0.813
Buses	7	0	0	7	5	7	0	12	0	0	0	0	19
Buses %	87.5	0.0	0.0	87.5	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	73.1
Single-Unit Trucks	1	0	0	1	0	0	0	0	0	6	0	6	7
Single-Unit %	12.5	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	26.9
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buses	7	0	0	7	5	7	0	12	0	0	0	0	19
Single-Unit Trucks	1	0	0	1	0	0	0	0	0	6	0	6	7
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Entering Leg	8	0	0	8	5	7	0	12	0	6	0	6	26
Buses				5				0					14
Single-Unit Trucks				6				0					7
Articulated Trucks				0				0					0
Total Exiting Leg				11				0					15

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total	
	from East				from South				from West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:00 AM	3	0	0	3	1	1	0	2	0	0	0	0	5	
11:15 AM	0	0	0	0	1	1	0	2	0	0	0	0	2	
11:30 AM	2	0	0	2	1	2	0	3	0	0	0	0	5	
11:45 AM	3	0	0	3	2	1	0	3	0	0	0	0	6	
Total	8	0	0	8	5	5	0	10	0	0	0	0	18	
12:00 PM	1	0	0	1	1	2	0	3	0	0	0	0	4	
12:15 PM	1	0	0	1	1	0	0	1	0	0	0	0	2	
12:30 PM	2	0	0	2	1	4	0	5	0	0	0	0	7	
12:45 PM	1	0	0	1	2	2	0	4	0	0	0	0	5	
Total	5	0	0	5	5	8	0	13	0	0	0	0	18	
1:00 PM	1	0	0	1	0	1	0	1	0	0	0	0	2	
1:15 PM	2	0	0	2	2	1	0	3	0	0	0	0	5	
1:30 PM	3	0	0	3	2	2	0	4	0	0	0	0	7	
1:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	1	
Total	6	0	0	6	4	5	0	9	0	0	0	0	15	
Grand Total	19	0	0	19	14	18	0	32	0	0	0	0	51	
Approach %	100.0	0.0	0.0		43.8	56.3	0.0		0.0	0.0	0.0			
Total %	37.3	0.0	0.0	37.3	27.5	35.3	0.0	62.7	0.0	0.0	0.0	0.0		
Exiting Leg Total				14				0					37	51

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:45 AM	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total	
	from East				from South				from West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:45 AM	3	0	0	3	2	1	0	3	0	0	0	0	6	
12:00 PM	1	0	0	1	1	2	0	3	0	0	0	0	4	
12:15 PM	1	0	0	1	1	0	0	1	0	0	0	0	2	
12:30 PM	2	0	0	2	1	4	0	5	0	0	0	0	7	
Total Volume	7	0	0	7	5	7	0	12	0	0	0	0	19	
% Approach Total	100.0	0.0	0.0		41.7	58.3	0.0		0.0	0.0	0.0			
PHF	0.583	0.000	0.000	0.583	0.625	0.438	0.000	0.600	0.000	0.000	0.000	0.000	0.679	
Entering Leg	7	0	0	7	5	7	0	12	0	0	0	0	19	
Exiting Leg				5				0					14	19
Total				12				12					14	38

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



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Single-Unit Trucks

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total	
	from East				from South				from West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:00 AM	1	0	0	1	0	0	0	0	0	0	2	0	2	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
11:30 AM	0	0	0	0	0	0	0	0	0	0	2	0	2	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	1	0	0	1	0	0	0	0	0	0	6	0	6	7
12:00 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	0	0	0	0	0	0	0	0	0	4	0	4	4
12:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	1	0	0	1	0	0	0	0	0	0	6	0	6	7
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
1:30 PM	0	0	0	0	1	0	0	1	0	0	1	0	1	2
1:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	0	0	0	1	0	0	1	0	0	4	0	4	5
Grand Total	2	0	0	2	1	0	0	1	0	16	0	16	19	
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0			
Total %	10.5	0.0	0.0	10.5	5.3	0.0	0.0	5.3	0.0	84.2	0.0	84.2		
Exiting Leg Total	17				0				2				19	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:30 AM	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total	
	from East				from South				from West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:30 AM	0	0	0	0	0	0	0	0	0	0	2	0	2	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
12:00 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	0	0	0	0	0	0	0	0	0	4	0	4	4
Total Volume	1	0	0	1	0	0	0	0	0	0	7	0	7	8
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0			
PHF	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.438	0.000	0.438	0.500	
Entering Leg	1	0	0	1	0	0	0	0	0	7	0	7	8	
Exiting Leg	7				0				1				8	
Total	8				0				8				16	

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
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Articulated Trucks

	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0				0				0				0

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	College Avenue				Somerville Community Path (Bus Access)				College Avenue				Total
	from East				from South				from West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg	0				0				0				0
Total	0				0				0				0

PDI File #: 207718 B
 Location: S: Somerville Community Path (Bus Access)
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM



46 Morton Street, Framingham, MA 01702
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Bicycles (on Roadway and Crosswalks)

	College Avenue							Somerville Community Path (Bus Access)						College Avenue						Total			
	from East							from South						from West									
	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	U-Turn	CW-NB	CW-SB		Total		
11:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
11:15 AM	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
11:30 AM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1		
Total	2	1	0	0	1	4	1	0	0	0	0	0	1	0	0	0	1	0	0	1	6		
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	2	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3		
Total	3	0	0	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0	0	0	4		
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1		
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	2		
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1		
1:45 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Total	1	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	4	5		
Grand Total	6	1	0	0	1	8	1	1	0	0	0	2	0	4	0	1	0	0	5	15			
Approach %	75.0	12.5	0.0	0.0	12.5		50.0	50.0	0.0	0.0	0.0		0.0	80.0	0.0	20.0	0.0						
Total %	40.0	6.7	0.0	0.0	6.7	53.3	6.7	6.7	0.0	0.0	0.0	13.3	0.0	26.7	0.0	6.7	0.0	33.3					
Exiting Leg Total							6							1							8	15	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue							Somerville Community Path (Bus Access)						College Avenue						Total		
	from East							from South						from West								
	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	U-Turn	CW-NB	CW-SB		Total	
12:45 PM	2	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1		
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	2		
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1		
Total Volume	2	0	0	0	0	2	0	1	0	0	0	1	0	4	0	0	0	0	4	7		
% Approach Total	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.583	
PHF	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.500	0.000	0.000	0.000	0.500		0.583		
Entering Leg	2	0	0	0	0	2	0	1	0	0	0	1	0	4	0	0	0	0	4	7		
Exiting Leg							4							0							3	7
Total							6							1							7	14

PDI File #: **207718 B**
 Location: **S: Somerville Community Path (Bus Access)**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	College Avenue						Somerville Community Path (Bus Access)						College Avenue						Total
	from East						from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	20	6	26	0	0	0	8	11	19	0	0	0	6	7	13	58
11:15 AM	0	0	0	7	6	13	0	0	0	6	9	15	0	0	0	8	2	10	38
11:30 AM	0	0	0	5	7	12	0	0	0	20	8	28	0	0	0	4	8	12	52
11:45 AM	0	0	0	15	12	27	0	0	0	11	15	26	0	0	0	7	3	10	63
Total	0	0	0	47	31	78	0	0	0	45	43	88	0	0	0	25	20	45	211
12:00 PM	0	0	0	7	7	14	0	0	0	15	17	32	0	0	0	3	7	10	56
12:15 PM	0	0	0	15	5	20	0	0	0	5	18	23	0	0	0	6	4	10	53
12:30 PM	0	0	0	16	6	22	0	0	0	15	14	29	0	0	0	4	9	13	64
12:45 PM	0	0	0	9	15	24	0	0	0	8	16	24	0	0	0	6	6	12	60
Total	0	0	0	47	33	80	0	0	0	43	65	108	0	0	0	19	26	45	233
1:00 PM	0	0	0	16	3	19	0	0	0	14	9	23	0	0	0	5	2	7	49
1:15 PM	0	0	0	11	7	18	0	0	0	9	11	20	0	0	0	2	5	7	45
1:30 PM	0	0	0	4	7	11	0	0	0	9	7	16	0	0	0	6	12	18	45
1:45 PM	0	0	0	6	6	12	0	0	0	10	12	22	0	0	0	4	3	7	41
Total	0	0	0	37	23	60	0	0	0	42	39	81	0	0	0	17	22	39	180
Grand Total	0	0	0	131	87	218	0	0	0	130	147	277	0	0	0	61	68	129	624
Approach %	0	0	0	60.092	39.908		0	0	0	46.931	53.069		0	0	0	47.287	52.713		
Total %	0	0	0	20.994	13.942	34.936	0	0	0	20.833	23.558	44.391	0	0	0	9.7756	10.897	20.673	
Exiting Leg Total	218						277						129						624

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:45 AM	College Avenue						Somerville Community Path (Bus Access)						College Avenue						Total
	from East						from South						from West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
11:45 AM	0	0	0	15	12	27	0	0	0	11	15	26	0	0	0	7	3	10	63
12:00 PM	0	0	0	7	7	14	0	0	0	15	17	32	0	0	0	3	7	10	56
12:15 PM	0	0	0	15	5	20	0	0	0	5	18	23	0	0	0	6	4	10	53
12:30 PM	0	0	0	15	5	20	0	0	0	5	18	23	0	0	0	6	4	10	53
Total Volume	0	0	0	52	29	81	0	0	0	36	68	104	0	0	0	22	18	40	225
% Approach Total	0.0	0.0	0.0	64.2	35.8		0.0	0.0	0.0	34.6	65.4		0.0	0.0	0.0	55.0	45.0		
PHF	0.000	0.000	0.000	0.867	0.604	0.750	0.000	0.000	0.000	0.600	0.944	0.813	0.000	0.000	0.000	0.786	0.643	1.000	0.893
Entering Leg	0	0	0	52	29	81	0	0	0	36	68	104	0	0	0	22	18	40	225
Exiting Leg	81						104						40						225
Total	162						208						80						450

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	5	75	0	80	0	0	0	0	0	0	0	0	80
7:15 AM	10	92	0	102	0	0	0	0	0	0	0	0	102
7:30 AM	9	112	0	121	0	0	0	0	0	0	0	0	121
7:45 AM	4	99	0	103	0	0	0	0	0	0	0	0	103
Total	28	378	0	406	0	0	0	0	0	0	0	0	406
8:00 AM	5	100	0	105	0	0	0	0	0	0	0	0	105
8:15 AM	10	120	0	130	0	0	0	0	0	0	0	0	130
8:30 AM	19	110	0	129	0	0	0	0	0	0	0	0	129
8:45 AM	9	110	0	119	0	0	0	0	0	0	0	0	119
Total	43	440	0	483	0	0	0	0	0	0	0	0	483
9:00 AM	14	97	0	111	0	0	0	0	0	0	0	0	111
9:15 AM	11	102	0	113	0	0	0	0	0	0	0	0	113
9:30 AM	6	108	0	114	0	0	0	0	0	0	0	0	114
9:45 AM	17	113	0	130	0	0	0	0	0	0	0	0	130
Total	48	420	0	468	0	0	0	0	0	0	0	0	468
10:00 AM	11	111	0	122	0	0	0	0	0	0	0	0	122
10:15 AM	10	114	0	124	0	0	0	0	0	0	0	0	124
10:30 AM	24	119	0	143	0	0	0	0	0	0	0	0	143
10:45 AM	18	114	0	132	0	0	0	0	0	0	0	0	132
Total	63	458	0	521	0	0	0	0	0	0	0	0	521
11:00 AM	21	95	0	116	0	0	0	0	0	0	0	0	116
11:15 AM	17	125	0	142	0	0	0	0	0	0	0	0	142
11:30 AM	20	117	0	137	0	0	0	0	0	0	0	0	137
11:45 AM	28	122	0	150	0	0	0	0	1	0	0	1	151
Total	86	459	0	545	0	0	0	0	1	0	0	1	546
12:00 PM	22	125	0	147	0	0	0	0	0	0	0	0	147
12:15 PM	26	142	0	168	0	0	0	0	0	0	0	0	168
12:30 PM	19	127	0	146	0	0	0	0	0	0	0	0	146
12:45 PM	33	127	0	160	0	0	0	0	0	0	0	0	160
Total	100	521	0	621	0	0	0	0	0	0	0	0	621
1:00 PM	30	134	0	164	0	0	0	0	0	0	0	0	164
1:15 PM	22	139	0	161	0	0	0	0	0	0	0	0	161
1:30 PM	17	118	0	135	0	0	0	0	0	0	0	0	135
1:45 PM	18	122	0	140	0	0	0	0	0	0	0	0	140
Total	87	513	0	600	0	0	0	0	0	0	0	0	600
2:00 PM	12	119	0	131	0	0	0	0	0	0	0	0	131
2:15 PM	18	122	0	140	0	0	0	0	0	0	0	0	140
2:30 PM	25	115	0	140	0	0	0	0	0	0	0	0	140
2:45 PM	17	116	0	133	0	0	0	0	0	0	0	0	133
Total	72	472	0	544	0	0	0	0	0	0	0	0	544
3:00 PM	21	123	0	144	0	0	0	0	0	0	0	0	144
3:15 PM	18	105	0	123	0	0	0	0	0	0	0	0	123
3:30 PM	15	121	0	136	0	0	0	0	0	0	0	0	136
3:45 PM	16	138	0	154	0	0	0	0	0	0	0	0	154
Total	70	487	0	557	0	0	0	0	0	0	0	0	557
4:00 PM	23	127	0	150	0	0	0	0	0	0	0	0	150
4:15 PM	22	123	0	145	0	0	0	0	0	0	0	0	145
4:30 PM	27	114	0	141	0	0	0	0	0	0	0	0	141
4:45 PM	22	121	0	143	0	0	0	0	1	0	0	1	144
Total	94	485	0	579	0	0	0	0	1	0	0	1	580
5:00 PM	25	122	0	147	0	0	0	0	0	0	0	0	147
5:15 PM	29	132	0	161	0	0	0	0	0	0	0	0	161
5:30 PM	18	141	0	159	0	0	0	0	0	0	0	0	159
5:45 PM	23	124	0	147	0	0	0	0	0	0	0	0	147
Total	95	519	0	614	0	0	0	0	0	0	0	0	614
6:00 PM	34	139	0	173	0	0	0	0	0	0	0	0	173
6:15 PM	22	109	0	131	0	0	0	0	0	0	0	0	131
6:30 PM	33	142	0	175	0	0	0	0	0	0	0	0	175
6:45 PM	30	121	0	151	0	0	0	0	0	0	0	0	151
Total	119	511	0	630	0	0	0	0	0	0	0	0	630
Grand Total	905	5663	0	6568	0	0	0	0	2	0	0	2	6570
Approach %	13.8	86.2	0.0		0.0	0.0	0.0		100.0	0.0	0.0		
Total %	13.8	86.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
Exiting Leg Total	0				5665				905				6570
Cars	882	5343	0	6225	0	0	0	0	2	0	0	2	6227
% Cars	97.5	94.3	0.0	94.8	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	94.8
Exiting Leg Total	0				5345				882				6227
Heavy Vehicles	23	320	0	343	0	0	0	0	0	0	0	0	343
% Heavy Vehicles	2.5	5.7	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
Exiting Leg Total	0				320				23				343

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

9:45 AM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
9:45 AM	17	113	0	130	0	0	0	0	0	0	0	0	130
10:00 AM	11	111	0	122	0	0	0	0	0	0	0	0	122
10:15 AM	10	114	0	124	0	0	0	0	0	0	0	0	124
10:30 AM	24	119	0	143	0	0	0	0	0	0	0	0	143
Total Volume	62	457	0	519	0	0	0	0	0	0	0	0	519
% Approach Total	11.9	88.1	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.646	0.960	0.000	0.907	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.907
Cars	57	418	0	475	0	0	0	0	0	0	0	0	475
Cars %	91.9	91.5	0.0	91.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5
Heavy Vehicles	5	39	0	44	0	0	0	0	0	0	0	0	44
Heavy Vehicles %	8.1	8.5	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5
Cars Enter Leg	57	418	0	475	0	0	0	0	0	0	0	0	475
Heavy Enter Leg	5	39	0	44	0	0	0	0	0	0	0	0	44
Total Entering Leg	62	457	0	519	0	0	0	0	0	0	0	0	519
Cars Exiting Leg	0				418				57				475
Heavy Exiting Leg	0				39				5				44
Total Exiting Leg	0				457				62				519

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

12:15 PM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
12:15 PM	26	142	0	168	0	0	0	0	0	0	0	0	168
12:30 PM	19	127	0	146	0	0	0	0	0	0	0	0	146
12:45 PM	33	127	0	160	0	0	0	0	0	0	0	0	160
1:00 PM	30	134	0	164	0	0	0	0	0	0	0	0	164
Total Volume	108	530	0	638	0	0	0	0	0	0	0	0	638
% Approach Total	16.9	83.1	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.818	0.933	0.000	0.949	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.949
Cars	104	504	0	608	0	0	0	0	0	0	0	0	608
Cars %	96.3	95.1	0.0	95.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.3
Heavy Vehicles	4	26	0	30	0	0	0	0	0	0	0	0	30
Heavy Vehicles %	3.7	4.9	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Cars Enter Leg	104	504	0	608	0	0	0	0	0	0	0	0	608
Heavy Enter Leg	4	26	0	30	0	0	0	0	0	0	0	0	30
Total Entering Leg	108	530	0	638	0	0	0	0	0	0	0	0	638
Cars Exiting Leg	0				504				104				608
Heavy Exiting Leg	0				26				4				30
Total Exiting Leg	0				530				108				638

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

5:15 PM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
5:15 PM	29	132	0	161	0	0	0	0	0	0	0	0	161
5:30 PM	18	141	0	159	0	0	0	0	0	0	0	0	159
5:45 PM	23	124	0	147	0	0	0	0	0	0	0	0	147
6:00 PM	34	139	0	173	0	0	0	0	0	0	0	0	173
Total Volume	104	536	0	640	0	0	0	0	0	0	0	0	640
% Approach Total	16.3	83.8	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.765	0.950	0.000	0.925	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.925
Cars	103	518	0	621	0	0	0	0	0	0	0	0	621

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class:

Cars and Heavy Vehicles (Combined)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
Cars %	99.0	96.6	0.0	97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.0	
Heavy Vehicles	1	18	0	19	0	0	0	0	0	0	0	0	19	
Heavy Vehicles %	1.0	3.4	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	
Cars Enter Leg	103	518	0	621	0	0	0	0	0	0	0	0	621	
Heavy Enter Leg	1	18	0	19	0	0	0	0	0	0	0	0	19	
Total Entering Leg	104	536	0	640	0	0	0	0	0	0	0	0	640	
Cars Exiting Leg				0				518					103	621
Heavy Exiting Leg				0				18					1	19
Total Exiting Leg				0				536					104	640

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



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Class:

Cars

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	4	59	0	63	0	0	0	0	0	0	0	0	63
7:15 AM	9	82	0	91	0	0	0	0	0	0	0	0	91
7:30 AM	9	102	0	111	0	0	0	0	0	0	0	0	111
7:45 AM	3	92	0	95	0	0	0	0	0	0	0	0	95
Total	25	335	0	360	0	0	0	0	0	0	0	0	360
8:00 AM	5	93	0	98	0	0	0	0	0	0	0	0	98
8:15 AM	10	111	0	121	0	0	0	0	0	0	0	0	121
8:30 AM	19	99	0	118	0	0	0	0	0	0	0	0	118
8:45 AM	7	98	0	105	0	0	0	0	0	0	0	0	105
Total	41	401	0	442	0	0	0	0	0	0	0	0	442
9:00 AM	14	89	0	103	0	0	0	0	0	0	0	0	103
9:15 AM	10	95	0	105	0	0	0	0	0	0	0	0	105
9:30 AM	5	100	0	105	0	0	0	0	0	0	0	0	105
9:45 AM	16	102	0	118	0	0	0	0	0	0	0	0	118
Total	45	386	0	431	0	0	0	0	0	0	0	0	431
10:00 AM	10	107	0	117	0	0	0	0	0	0	0	0	117
10:15 AM	8	100	0	108	0	0	0	0	0	0	0	0	108
10:30 AM	23	109	0	132	0	0	0	0	0	0	0	0	132
10:45 AM	18	106	0	124	0	0	0	0	0	0	0	0	124
Total	59	422	0	481	0	0	0	0	0	0	0	0	481
11:00 AM	20	91	0	111	0	0	0	0	0	0	0	0	111
11:15 AM	17	119	0	136	0	0	0	0	0	0	0	0	136
11:30 AM	20	112	0	132	0	0	0	0	0	0	0	0	132
11:45 AM	27	115	0	142	0	0	0	0	1	0	0	1	143
Total	84	437	0	521	0	0	0	0	1	0	0	1	522
12:00 PM	21	122	0	143	0	0	0	0	0	0	0	0	143
12:15 PM	25	137	0	162	0	0	0	0	0	0	0	0	162
12:30 PM	19	117	0	136	0	0	0	0	0	0	0	0	136
12:45 PM	31	123	0	154	0	0	0	0	0	0	0	0	154
Total	96	499	0	595	0	0	0	0	0	0	0	0	595
1:00 PM	29	127	0	156	0	0	0	0	0	0	0	0	156
1:15 PM	21	132	0	153	0	0	0	0	0	0	0	0	153
1:30 PM	17	113	0	130	0	0	0	0	0	0	0	0	130
1:45 PM	18	115	0	133	0	0	0	0	0	0	0	0	133
Total	85	487	0	572	0	0	0	0	0	0	0	0	572
2:00 PM	12	115	0	127	0	0	0	0	0	0	0	0	127
2:15 PM	18	113	0	131	0	0	0	0	0	0	0	0	131
2:30 PM	24	114	0	138	0	0	0	0	0	0	0	0	138
2:45 PM	17	111	0	128	0	0	0	0	0	0	0	0	128
Total	71	453	0	524	0	0	0	0	0	0	0	0	524
3:00 PM	21	121	0	142	0	0	0	0	0	0	0	0	142
3:15 PM	18	100	0	118	0	0	0	0	0	0	0	0	118
3:30 PM	15	115	0	130	0	0	0	0	0	0	0	0	130
3:45 PM	16	134	0	150	0	0	0	0	0	0	0	0	150
Total	70	470	0	540	0	0	0	0	0	0	0	0	540
4:00 PM	23	121	0	144	0	0	0	0	0	0	0	0	144
4:15 PM	22	115	0	137	0	0	0	0	0	0	0	0	137
4:30 PM	26	108	0	134	0	0	0	0	0	0	0	0	134
4:45 PM	22	116	0	138	0	0	0	0	1	0	0	1	139
Total	93	460	0	553	0	0	0	0	1	0	0	1	554
5:00 PM	25	118	0	143	0	0	0	0	0	0	0	0	143
5:15 PM	29	126	0	155	0	0	0	0	0	0	0	0	155
5:30 PM	17	136	0	153	0	0	0	0	0	0	0	0	153
5:45 PM	23	121	0	144	0	0	0	0	0	0	0	0	144
Total	94	501	0	595	0	0	0	0	0	0	0	0	595
6:00 PM	34	135	0	169	0	0	0	0	0	0	0	0	169
6:15 PM	22	104	0	126	0	0	0	0	0	0	0	0	126
6:30 PM	33	136	0	169	0	0	0	0	0	0	0	0	169
6:45 PM	30	117	0	147	0	0	0	0	0	0	0	0	147
Total	119	492	0	611	0	0	0	0	0	0	0	0	611
Grand Total	882	5343	0	6225	0	0	0	0	2	0	0	2	6227
Approach %	14.2	85.8	0.0		0.0	0.0	0.0		100.0	0.0	0.0		

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
Total %	14.2	85.8	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total	0				5345				882				6227

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
9:45 AM	16	102	0	118	0	0	0	0	0	0	0	0	118
10:00 AM	10	107	0	117	0	0	0	0	0	0	0	0	117
10:15 AM	8	100	0	108	0	0	0	0	0	0	0	0	108
10:30 AM	23	109	0	132	0	0	0	0	0	0	0	0	132
Total Volume	57	418	0	475	0	0	0	0	0	0	0	0	475
% Approach Total	12.0	88.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.620	0.959	0.000	0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.900
Entering Leg	57	418	0	475	0	0	0	0	0	0	0	0	475
Exiting Leg	0				418				57				475
Total	475				418				57				950

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
12:15 PM	25	137	0	162	0	0	0	0	0	0	0	0	162
12:30 PM	19	117	0	136	0	0	0	0	0	0	0	0	136
12:45 PM	31	123	0	154	0	0	0	0	0	0	0	0	154
1:00 PM	29	127	0	156	0	0	0	0	0	0	0	0	156
Total Volume	104	504	0	608	0	0	0	0	0	0	0	0	608
% Approach Total	17.1	82.9	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.839	0.920	0.000	0.938	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.938
Entering Leg	104	504	0	608	0	0	0	0	0	0	0	0	608
Exiting Leg	0				504				104				608
Total	608				504				104				1216

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
5:15 PM	29	126	0	155	0	0	0	0	0	0	0	0	155
5:30 PM	17	136	0	153	0	0	0	0	0	0	0	0	153
5:45 PM	23	121	0	144	0	0	0	0	0	0	0	0	144
6:00 PM	34	135	0	169	0	0	0	0	0	0	0	0	169
Total Volume	103	518	0	621	0	0	0	0	0	0	0	0	621
% Approach Total	16.6	83.4	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.757	0.952	0.000	0.919	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.919
Entering Leg	103	518	0	621	0	0	0	0	0	0	0	0	621
Exiting Leg	0				518				103				621
Total	621				518				103				1242

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	1	16	0	17	0	0	0	0	0	0	0	0	17
7:15 AM	1	10	0	11	0	0	0	0	0	0	0	0	11
7:30 AM	0	10	0	10	0	0	0	0	0	0	0	0	10
7:45 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
Total	3	43	0	46	0	0	0	0	0	0	0	0	46
8:00 AM	0	7	0	7	0	0	0	0	0	0	0	0	7
8:15 AM	0	9	0	9	0	0	0	0	0	0	0	0	9
8:30 AM	0	11	0	11	0	0	0	0	0	0	0	0	11
8:45 AM	2	12	0	14	0	0	0	0	0	0	0	0	14
Total	2	39	0	41	0	0	0	0	0	0	0	0	41
9:00 AM	0	8	0	8	0	0	0	0	0	0	0	0	8
9:15 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
9:30 AM	1	8	0	9	0	0	0	0	0	0	0	0	9
9:45 AM	1	11	0	12	0	0	0	0	0	0	0	0	12
Total	3	34	0	37	0	0	0	0	0	0	0	0	37
10:00 AM	1	4	0	5	0	0	0	0	0	0	0	0	5
10:15 AM	2	14	0	16	0	0	0	0	0	0	0	0	16
10:30 AM	1	10	0	11	0	0	0	0	0	0	0	0	11
10:45 AM	0	8	0	8	0	0	0	0	0	0	0	0	8
Total	4	36	0	40	0	0	0	0	0	0	0	0	40
11:00 AM	1	4	0	5	0	0	0	0	0	0	0	0	5
11:15 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
11:30 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
11:45 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
Total	2	22	0	24	0	0	0	0	0	0	0	0	24
12:00 PM	1	3	0	4	0	0	0	0	0	0	0	0	4
12:15 PM	1	5	0	6	0	0	0	0	0	0	0	0	6
12:30 PM	0	10	0	10	0	0	0	0	0	0	0	0	10
12:45 PM	2	4	0	6	0	0	0	0	0	0	0	0	6
Total	4	22	0	26	0	0	0	0	0	0	0	0	26
1:00 PM	1	7	0	8	0	0	0	0	0	0	0	0	8
1:15 PM	1	7	0	8	0	0	0	0	0	0	0	0	8
1:30 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
1:45 PM	0	7	0	7	0	0	0	0	0	0	0	0	7
Total	2	26	0	28	0	0	0	0	0	0	0	0	28
2:00 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
2:15 PM	0	9	0	9	0	0	0	0	0	0	0	0	9
2:30 PM	1	1	0	2	0	0	0	0	0	0	0	0	2
2:45 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
Total	1	19	0	20	0	0	0	0	0	0	0	0	20
3:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
3:15 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
3:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	6
3:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
Total	0	17	0	17	0	0	0	0	0	0	0	0	17
4:00 PM	0	6	0	6	0	0	0	0	0	0	0	0	6
4:15 PM	0	8	0	8	0	0	0	0	0	0	0	0	8
4:30 PM	1	6	0	7	0	0	0	0	0	0	0	0	7
4:45 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
Total	1	25	0	26	0	0	0	0	0	0	0	0	26
5:00 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
5:15 PM	0	6	0	6	0	0	0	0	0	0	0	0	6
5:30 PM	1	5	0	6	0	0	0	0	0	0	0	0	6
5:45 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
Total	1	18	0	19	0	0	0	0	0	0	0	0	19
6:00 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
6:15 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
6:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	6
6:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
Total	0	19	0	19	0	0	0	0	0	0	0	0	19
Grand Total	23	320	0	343	0	0	0	0	0	0	0	0	343
Approach %	6.7	93.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
Total %	6.7	93.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
Exiting Leg Total	0				320				23				343
Buses	2	183	0	185	0	0	0	0	0	0	0	0	185
% Buses	8.7	57.2	0.0	53.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.9
Exiting Leg Total	0				183				2				185
Single-Unit Trucks	21	122	0	143	0	0	0	0	0	0	0	0	143
% Single-Unit	91.3	38.1	0.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.7
Exiting Leg Total	0				122				21				143
Articulated Trucks	0	15	0	15	0	0	0	0	0	0	0	0	15
% Articulated	0.0	4.7	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Exiting Leg Total	0				15				0				15

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

7:00 AM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	1	16	0	17	0	0	0	0	0	0	0	0	17
7:15 AM	1	10	0	11	0	0	0	0	0	0	0	0	11
7:30 AM	0	10	0	10	0	0	0	0	0	0	0	0	10
7:45 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
Total Volume	3	43	0	46	0	0	0	0	0	0	0	0	46
% Approach Total	6.5	93.5	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.750	0.672	0.000	0.676	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.676
Buses	0	25	0	25	0	0	0	0	0	0	0	0	25
Buses %	0.0	58.1	0.0	54.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3
Single-Unit Trucks	3	15	0	18	0	0	0	0	0	0	0	0	18
Single-Unit %	100.0	34.9	0.0	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.1
Articulated Trucks	0	3	0	3	0	0	0	0	0	0	0	0	3
Articulated %	0.0	7.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5
Buses	0	25	0	25	0	0	0	0	0	0	0	0	25
Single-Unit Trucks	3	15	0	18	0	0	0	0	0	0	0	0	18
Articulated Trucks	0	3	0	3	0	0	0	0	0	0	0	0	3
Total Entering Leg	3	43	0	46	0	0	0	0	0	0	0	0	46
Buses	0				25				0				25
Single-Unit Trucks	0				15				3				18
Articulated Trucks	0				3				0				3
Total Exiting Leg	0				43				3				46

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

10:00 AM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
10:00 AM	1	4	0	5	0	0	0	0	0	0	0	0	5
10:15 AM	2	14	0	16	0	0	0	0	0	0	0	0	16
10:30 AM	1	10	0	11	0	0	0	0	0	0	0	0	11
10:45 AM	0	8	0	8	0	0	0	0	0	0	0	0	8
Total Volume	4	36	0	40	0	0	0	0	0	0	0	0	40
% Approach Total	10.0	90.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.500	0.643	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625
Buses	0	11	0	11	0	0	0	0	0	0	0	0	11
Buses %	0.0	30.6	0.0	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5
Single-Unit Trucks	4	24	0	28	0	0	0	0	0	0	0	0	28
Single-Unit %	100.0	66.7	0.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0
Articulated Trucks	0	1	0	1	0	0	0	0	0	0	0	0	1
Articulated %	0.0	2.8	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
Buses	0	11	0	11	0	0	0	0	0	0	0	0	11
Single-Unit Trucks	4	24	0	28	0	0	0	0	0	0	0	0	28
Articulated Trucks	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Entering Leg	4	36	0	40	0	0	0	0	0	0	0	0	40
Buses	0				11				0				11
Single-Unit Trucks	0				24				4				28
Articulated Trucks	0				1				0				1
Total Exiting Leg	0				36				4				40

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class:

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	Elm Street				Elm Street				Chester Street					
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total	
4:00 PM	0	6	0	6	0	0	0	0	0	0	0	0	6	
4:15 PM	0	8	0	8	0	0	0	0	0	0	0	0	8	
4:30 PM	1	6	0	7	0	0	0	0	0	0	0	0	7	
4:45 PM	0	5	0	5	0	0	0	0	0	0	0	0	5	
Total Volume	1	25	0	26	0	0	0	0	0	0	0	0	26	
% Approach Total	3.8	96.2	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.250	0.781	0.000	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.813	
Buses	0	21	0	21	0	0	0	0	0	0	0	0	21	
Buses %	0.0	84.0	0.0	80.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.8	
Single-Unit Trucks	1	2	0	3	0	0	0	0	0	0	0	0	3	
Single-Unit %	100.0	8.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	
Articulated Trucks	0	2	0	2	0	0	0	0	0	0	0	0	2	
Articulated %	0.0	8.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	
Buses	0	21	0	21	0	0	0	0	0	0	0	0	21	
Single-Unit Trucks	1	2	0	3	0	0	0	0	0	0	0	0	3	
Articulated Trucks	0	2	0	2	0	0	0	0	0	0	0	0	2	
Total Entering Leg	1	25	0	26	0	0	0	0	0	0	0	0	26	
Buses				0				21					0	21
Single-Unit Trucks				0				2					1	3
Articulated Trucks				0				2					0	2
Total Exiting Leg				0				25					1	26

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	0	8	0	8	0	0	0	0	0	0	0	0	8
7:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
7:30 AM	0	7	0	7	0	0	0	0	0	0	0	0	7
7:45 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
Total	0	25	0	25	0	0	0	0	0	0	0	0	25
8:00 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
8:15 AM	0	7	0	7	0	0	0	0	0	0	0	0	7
8:30 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
8:45 AM	1	6	0	7	0	0	0	0	0	0	0	0	7
Total	1	21	0	22	0	0	0	0	0	0	0	0	22
9:00 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
9:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
9:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
9:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
Total	0	13	0	13	0	0	0	0	0	0	0	0	13
10:00 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
10:15 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
10:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
10:45 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
Total	0	11	0	11	0	0	0	0	0	0	0	0	11
11:00 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
11:15 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
11:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
11:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
Total	0	12	0	12	0	0	0	0	0	0	0	0	12
12:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
12:15 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
12:30 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
12:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	11	0	11	0	0	0	0	0	0	0	0	11
1:00 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
1:15 PM	1	2	0	3	0	0	0	0	0	0	0	0	3
1:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
1:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
Total	1	12	0	13	0	0	0	0	0	0	0	0	13
2:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
2:15 PM	0	7	0	7	0	0	0	0	0	0	0	0	7
2:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
2:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
Total	0	14	0	14	0	0	0	0	0	0	0	0	14
3:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
3:15 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
3:30 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
3:45 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
Total	0	12	0	12	0	0	0	0	0	0	0	0	12
4:00 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
4:15 PM	0	6	0	6	0	0	0	0	0	0	0	0	6
4:30 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
4:45 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
Total	0	21	0	21	0	0	0	0	0	0	0	0	21
5:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
5:15 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
5:30 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
5:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	15	0	15	0	0	0	0	0	0	0	0	15
6:00 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
6:15 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
6:30 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
6:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
Total	0	16	0	16	0	0	0	0	0	0	0	0	16
Grand Total	2	183	0	185	0	0	0	0	0	0	0	0	185

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
Approach %	1.1	98.9	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
Total %	1.1	98.9	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0				183				2				185

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

7:00 AM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	0	8	0	8	0	0	0	0	0	0	0	0	8
7:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
7:30 AM	0	7	0	7	0	0	0	0	0	0	0	0	7
7:45 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
Total Volume	0	25	0	25	0	0	0	0	0	0	0	0	25
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.781	0.000	0.781	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.781
Entering Leg	0	25	0	25	0	0	0	0	0	0	0	0	25
Exiting Leg	0				25				0				25
Total	25				25				0				50

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

1:30 PM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
1:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
1:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	4
2:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
2:15 PM	0	7	0	7	0	0	0	0	0	0	0	0	7
Total Volume	0	15	0	15	0	0	0	0	0	0	0	0	15
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.536	0.000	0.536	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.536
Entering Leg	0	15	0	15	0	0	0	0	0	0	0	0	15
Exiting Leg	0				15				0				15
Total	15				15				0				30

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

4:00 PM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
4:00 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
4:15 PM	0	6	0	6	0	0	0	0	0	0	0	0	6
4:30 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
4:45 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
Total Volume	0	21	0	21	0	0	0	0	0	0	0	0	21
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.875	0.000	0.875	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.875
Entering Leg	0	21	0	21	0	0	0	0	0	0	0	0	21
Exiting Leg	0				21				0				21
Total	21				21				0				42

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
7:15 AM	1	5	0	6	0	0	0	0	0	0	0	0	6
7:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
7:45 AM	1	1	0	2	0	0	0	0	0	0	0	0	2
Total	3	15	0	18	0	0	0	0	0	0	0	0	18
8:00 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
8:15 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
8:30 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
8:45 AM	1	5	0	6	0	0	0	0	0	0	0	0	6
Total	1	15	0	16	0	0	0	0	0	0	0	0	16
9:00 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
9:15 AM	1	3	0	4	0	0	0	0	0	0	0	0	4
9:30 AM	1	4	0	5	0	0	0	0	0	0	0	0	5
9:45 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
Total	3	20	0	23	0	0	0	0	0	0	0	0	23
10:00 AM	1	2	0	3	0	0	0	0	0	0	0	0	3
10:15 AM	2	10	0	12	0	0	0	0	0	0	0	0	12
10:30 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
10:45 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
Total	4	24	0	28	0	0	0	0	0	0	0	0	28
11:00 AM	1	1	0	2	0	0	0	0	0	0	0	0	2
11:15 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
11:45 AM	1	2	0	3	0	0	0	0	0	0	0	0	3
Total	2	6	0	8	0	0	0	0	0	0	0	0	8
12:00 PM	1	1	0	2	0	0	0	0	0	0	0	0	2
12:15 PM	1	2	0	3	0	0	0	0	0	0	0	0	3
12:30 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
12:45 PM	2	2	0	4	0	0	0	0	0	0	0	0	4
Total	4	10	0	14	0	0	0	0	0	0	0	0	14
1:00 PM	1	3	0	4	0	0	0	0	0	0	0	0	4
1:15 PM	0	5	0	5	0	0	0	0	0	0	0	0	5
1:30 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
1:45 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
Total	1	14	0	15	0	0	0	0	0	0	0	0	15
2:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
2:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
2:30 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
2:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total	1	5	0	6	0	0	0	0	0	0	0	0	6
3:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
3:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
3:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
3:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total	0	5	0	5	0	0	0	0	0	0	0	0	5
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
4:30 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	2	0	3	0	0	0	0	0	0	0	0	3
5:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
5:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total	1	3	0	4	0	0	0	0	0	0	0	0	4
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	3	0	3	0	0	0	0	0	0	0	0	3
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	3	0	0	0	0	0	0	0	0	3
Grand Total	21	122	0	143	0	0	0	0	0	0	0	0	143

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
Approach %	14.7	85.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
Total %	14.7	85.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0				122				21				143

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
9:45 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
10:00 AM	1	2	0	3	0	0	0	0	0	0	0	0	3
10:15 AM	2	10	0	12	0	0	0	0	0	0	0	0	12
10:30 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
Total Volume	5	26	0	31	0	0	0	0	0	0	0	0	31
% Approach Total	16.1	83.9	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.625	0.650	0.000	0.646	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.646
Entering Leg	5	26	0	31	0	0	0	0	0	0	0	0	31
Exiting Leg	0				26				5				31
Total	31				26				5				62

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
10:00 AM	1	2	0	3	0	0	0	0	0	0	0	0	3
10:15 AM	2	10	0	12	0	0	0	0	0	0	0	0	12
10:30 AM	1	7	0	8	0	0	0	0	0	0	0	0	8
10:45 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
Total Volume	4	24	0	28	0	0	0	0	0	0	0	0	28
% Approach Total	14.3	85.7	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.500	0.600	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583
Entering Leg	4	24	0	28	0	0	0	0	0	0	0	0	28
Exiting Leg	0				24				4				28
Total	28				24				4				56

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
2:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
2:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
2:30 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
2:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	1	5	0	6	0	0	0	0	0	0	0	0	6
% Approach Total	16.7	83.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.250	0.625	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750
Entering Leg	1	5	0	6	0	0	0	0	0	0	0	0	6
Exiting Leg	0				5				1				6
Total	6				5				1				12

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	3	0	0	0	0	0	0	0	0	0	3
8:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	3	0	3	0	0	0	0	0	0	0	0	0	3
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	0	1
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
11:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	4	0	4	0	0	0	0	0	0	0	0	0	4
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	0	1
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	2	0	0	0	0	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	15	0	15	0	0	0	0	0	0	0	0	0	15

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
Approach %	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total	0				15				0				15

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

7:00 AM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	3	0	3	0	0	0	0	0	0	0	0	3
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.750	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	3	0	3	0	0	0	0	0	0	0	0	3
Exiting Leg	0				3				0				3
Total	3				3				0				6

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

11:00 AM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
11:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
11:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	4	0	4	0	0	0	0	0	0	0	0	4
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	0	4	0	4	0	0	0	0	0	0	0	0	4
Exiting Leg	0				4				0				4
Total	4				4				0				8

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

3:45 PM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	2	0	2	0	0	0	0	0	0	0	0	2
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	0	2	0	2	0	0	0	0	0	0	0	0	2
Exiting Leg	0				2				0				2
Total	2				2				0				4

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
7:15 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
7:30 AM	0	4	0	0	0	4	0	0	0	0	0	0	1	0	0	0	0	1	5
7:45 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	14	0	0	0	14	0	0	0	0	0	0	1	0	0	0	0	1	15
8:00 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
8:15 AM	0	4	0	0	0	4	1	0	0	0	0	1	0	0	0	1	0	1	6
8:30 AM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
8:45 AM	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	1	1	1	4
Total	2	14	0	0	0	16	1	0	0	0	0	1	0	0	0	1	1	2	19
9:00 AM	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
9:15 AM	1	6	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
9:30 AM	0	12	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
9:45 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	1	29	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	30
10:00 AM	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
10:15 AM	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
10:30 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10:45 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	14	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
11:00 AM	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
11:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	4	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	5
11:45 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	12	0	0	1	13	0	0	0	0	0	0	0	0	0	0	0	0	13
12:00 PM	0	10	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
12:15 PM	0	5	0	0	0	5	0	0	0	0	1	1	0	0	0	0	0	0	6
12:30 PM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
12:45 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	21	0	0	0	21	0	0	0	0	1	1	0	0	0	0	0	0	22
1:00 PM	0	2	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	2	4
1:15 PM	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	1	1	1	8
1:30 PM	0	3	0	1	0	4	0	0	0	0	0	0	0	0	0	1	1	1	5
1:45 PM	0	5	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	1	6
Total	0	17	0	1	0	18	0	0	0	0	0	0	3	0	0	0	2	5	23
2:00 PM	2	1	0	0	1	4	0	0	0	0	0	0	1	0	0	0	2	3	7
2:15 PM	0	2	0	1	0	3	0	0	0	0	0	0	0	0	0	1	0	1	4
2:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	2	5	0	1	1	9	0	0	0	0	0	0	1	0	0	1	2	4	13
3:00 PM	0	5	0	0	0	5	0	0	0	1	0	1	0	0	0	0	0	0	6
3:15 PM	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
3:30 PM	1	6	0	0	0	7	0	0	0	0	0	0	1	0	0	0	0	1	8
3:45 PM	2	4	0	0	0	6	0	0	0	0	0	0	2	0	0	0	3	5	11
Total	3	23	0	0	0	26	0	0	0	1	0	1	3	0	0	0	3	6	33
4:00 PM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
4:15 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	1	3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
4:45 PM	1	9	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	2	19	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	21
5:00 PM	0	3	0	0	0	3	0	0	0	0	1	1	0	0	0	0	0	0	4
5:15 PM	0	2	0	0	1	3	0	1	0	0	0	1	0	0	0	0	0	0	4
5:30 PM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
5:45 PM	2	3	0	0	0	5	0	0	0	0	0	0	1	0	0	1	2	4	9
Total	2	13	0	0	1	16	0	1	0	0	1	2	1	0	0	1	2	4	22
6:00 PM	0	4	0	0	0	4	0	0	0	0	0	0	1	0	0	0	2	3	7
6:15 PM	1	8	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
6:30 PM	0	8	0	0	0	8	0	0	0	0	0	0	1	0	0	0	0	1	9
6:45 PM	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	1	23	0	0	0	24	0	0	0	0	0	0	2	0	0	0	2	4	28
Grand Total	13	204	0	2	3	222	1	1	0	1	2	5	11	0	0	3	12	26	253

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
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Bicycles (on Roadway and Crosswalks)

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
Approach %	5.9	91.9	0.0	0.9	1.4		20.0	20.0	0.0	20.0	40.0		42.3	0.0	0.0	11.5	46.2		
Total %	5.1	80.6	0.0	0.8	1.2	87.7	0.4	0.4	0.0	0.4	0.8	2.0	4.3	0.0	0.0	1.2	4.7	10.3	
Exiting Leg Total	6						218						29						253

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
8:45 AM	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	1	4
8:45 AM	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
9:00 AM	1	6	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
9:15 AM	0	12	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
9:30 AM	3	26	0	0	0	29	0	0	0	0	0	0	0	0	0	0	1	1	30
Total Volume	10.3	89.7	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		
% Approach Total	0.375	0.542	0.000	0.000	0.000	0.604	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.625
PHF	0.375	0.542	0.000	0.000	0.000	0.604	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.625
Entering Leg	3	26	0	0	0	29	0	0	0	0	0	0	0	0	0	0	1	1	30
Exiting Leg	0						26						4						30
Total	29						26						5						60

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
1:15 PM	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	1	1	8
1:30 PM	0	3	0	1	0	4	0	0	0	0	0	0	0	0	0	0	1	1	5
1:45 PM	0	5	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	1	6
2:00 PM	2	1	0	0	1	4	0	0	0	0	0	0	1	0	0	0	2	3	7
Total Volume	2	16	0	1	1	20	0	0	0	0	0	0	2	0	0	0	4	6	26
% Approach Total	10.0	80.0	0.0	5.0	5.0		0.0	0.0	0.0	0.0	0.0		33.3	0.0	0.0	0.0	66.7		
PHF	0.250	0.571	0.000	0.250	0.250	0.714	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.500	0.813
Entering Leg	2	16	0	1	1	20	0	0	0	0	0	0	2	0	0	0	4	6	26
Exiting Leg	2						18						6						26
Total	22						18						12						52

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
5:45 PM	2	3	0	0	0	5	0	0	0	0	0	0	1	0	0	1	2	4	9
6:00 PM	0	4	0	0	0	4	0	0	0	0	0	0	1	0	0	0	2	3	7
6:15 PM	1	8	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
6:30 PM	0	8	0	0	0	8	0	0	0	0	0	0	1	0	0	0	0	1	9
Total Volume	3	23	0	0	0	26	0	0	0	0	0	0	3	0	0	1	4	8	34
% Approach Total	11.5	88.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		37.5	0.0	0.0	12.5	50.0		
PHF	0.375	0.719	0.000	0.000	0.000	0.722	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.250	0.500	0.500	0.944
Entering Leg	3	23	0	0	0	26	0	0	0	0	0	0	3	0	0	1	4	8	34
Exiting Leg	0						26						8						34
Total	26						26						16						68

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Elm Street						Chester Street						Total
	from North							from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total		
7:00 AM	0	0	0	1	3	4	0	0	0	2	1	3	0	0	0	5	10	15	22	
7:15 AM	0	0	0	1	2	3	0	0	0	0	2	2	0	0	0	8	9	17	22	
7:30 AM	0	0	0	7	1	8	0	0	0	3	5	8	0	0	0	5	8	13	29	
7:45 AM	0	0	0	2	3	5	0	0	0	1	5	6	0	0	0	5	5	10	21	
Total	0	0	0	11	9	20	0	0	0	6	13	19	0	0	0	23	32	55	94	
8:00 AM	0	0	0	1	6	7	0	0	0	2	2	4	0	0	0	7	16	23	34	
8:15 AM	0	0	0	4	7	11	0	0	0	3	3	6	0	0	0	9	12	21	38	
8:30 AM	0	0	0	8	2	10	0	0	0	0	4	4	0	0	0	8	10	18	32	
8:45 AM	0	0	0	7	3	10	0	0	0	0	7	7	0	0	0	8	27	35	52	
Total	0	0	0	20	18	38	0	0	0	5	16	21	0	0	0	32	65	97	156	
9:00 AM	0	0	0	3	3	6	0	0	0	2	5	7	0	0	0	10	13	23	36	
9:15 AM	0	0	0	3	3	6	0	0	0	2	5	7	0	0	0	9	11	20	33	
9:30 AM	0	0	0	5	2	7	0	0	0	2	8	10	0	0	0	9	15	24	41	
9:45 AM	0	0	0	5	4	9	0	0	0	2	2	4	0	0	0	11	14	25	38	
Total	0	0	0	16	12	28	0	0	0	8	20	28	0	0	0	39	53	92	148	
10:00 AM	0	0	0	5	4	9	0	0	0	4	3	7	0	0	0	7	11	18	34	
10:15 AM	0	0	0	3	4	7	0	0	0	2	6	8	0	0	0	18	19	37	52	
10:30 AM	0	0	0	6	0	6	0	0	0	2	3	5	0	0	0	15	12	27	38	
10:45 AM	0	0	0	11	6	17	0	0	0	2	2	4	0	0	0	23	23	46	67	
Total	0	0	0	25	14	39	0	0	0	10	14	24	0	0	0	63	65	128	191	
11:00 AM	0	0	0	10	5	15	0	0	0	3	11	14	0	0	0	28	31	59	88	
11:15 AM	0	0	0	4	4	8	0	0	0	6	6	12	0	0	0	19	24	43	63	
11:30 AM	0	0	0	6	12	18	0	0	0	7	8	15	0	0	0	25	23	48	81	
11:45 AM	0	0	0	4	11	15	0	0	0	2	11	13	0	0	0	21	37	58	86	
Total	0	0	0	24	32	56	0	0	0	18	36	54	0	0	0	93	115	208	318	
12:00 PM	0	0	0	9	7	16	0	0	0	7	5	12	0	0	0	24	36	60	88	
12:15 PM	0	0	0	7	6	13	0	0	0	6	17	23	0	0	0	33	50	83	119	
12:30 PM	0	0	0	14	12	26	0	0	0	7	12	19	0	0	0	32	40	72	117	
12:45 PM	0	0	0	16	15	31	0	0	0	2	14	16	0	0	0	38	46	84	131	
Total	0	0	0	46	40	86	0	0	0	22	48	70	0	0	0	127	172	299	455	
1:00 PM	0	0	0	7	15	22	0	0	0	4	16	20	0	0	0	28	42	70	112	
1:15 PM	0	0	0	9	13	22	0	0	0	10	12	22	0	0	0	27	48	75	119	
1:30 PM	0	0	0	11	7	18	0	0	0	7	6	13	0	0	0	32	36	68	99	
1:45 PM	0	0	0	12	3	15	0	0	0	9	11	20	0	0	0	40	34	74	109	
Total	0	0	0	39	38	77	0	0	0	30	45	75	0	0	0	127	160	287	439	
2:00 PM	0	0	0	9	15	24	0	0	0	6	12	18	0	0	0	36	40	76	118	
2:15 PM	0	0	0	4	8	12	0	0	0	9	5	14	0	0	0	36	29	65	91	
2:30 PM	0	0	0	9	11	20	0	0	0	4	10	14	0	0	0	26	37	63	97	
2:45 PM	0	0	0	10	5	15	0	0	0	5	6	11	0	0	0	33	40	73	99	
Total	0	0	0	32	39	71	0	0	0	24	33	57	0	0	0	131	146	277	405	
3:00 PM	0	0	0	5	14	19	0	0	0	6	10	16	0	0	0	35	40	75	110	
3:15 PM	0	0	0	5	4	9	0	0	0	9	11	20	0	0	0	21	47	68	97	
3:30 PM	0	0	0	9	10	19	0	0	0	2	7	9	0	0	0	35	42	77	105	
3:45 PM	0	0	0	13	9	22	0	0	0	11	13	24	0	0	0	42	40	82	128	
Total	0	0	0	32	37	69	0	0	0	28	41	69	0	0	0	133	169	302	440	
4:00 PM	0	0	0	17	9	26	0	0	0	7	10	17	0	0	0	34	44	78	121	
4:15 PM	0	0	0	9	6	15	0	0	0	0	10	10	0	0	0	30	55	85	110	
4:30 PM	0	0	0	11	11	22	0	0	0	7	6	13	0	0	0	35	43	78	113	
4:45 PM	0	0	0	9	9	18	0	0	0	6	5	11	0	0	0	38	59	97	126	
Total	0	0	0	46	35	81	0	0	0	20	31	51	0	0	0	137	201	338	470	
5:00 PM	0	0	0	10	9	19	0	0	0	3	5	8	0	0	0	40	42	82	109	
5:15 PM	0	0	0	8	7	15	0	0	0	11	11	22	0	0	0	28	47	75	112	
5:30 PM	0	0	0	7	8	15	0	0	0	4	13	17	0	0	0	50	48	98	130	
5:45 PM	0	0	0	8	5	13	0	0	0	8	18	26	0	0	0	28	46	74	113	
Total	0	0	0	33	29	62	0	0	0	26	47	73	0	0	0	146	183	329	464	
6:00 PM	0	0	0	7	7	14	0	0	0	5	6	11	0	0	0	19	39	58	83	
6:15 PM	0	0	0	20	9	29	0	0	0	3	12	15	0	0	0	38	43	81	125	
6:30 PM	0	0	0	15	10	25	0	0	0	12	14	26	0	0	0	32	42	74	125	
6:45 PM	0	0	0	7	12	19	0	0	0	9	11	20	0	0	0	29	35	64	103	
Total	0	0	0	49	38	87	0	0	0	29	43	72	0	0	0	118	159	277	436	
Grand Total	0	0	0	373	341	714	0	0	0	226	387	613	0	0	0	1169	1520	2689	4016	

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
Approach %	0	0	0	52.241	47.759		0	0	0	36.868	63.132		0	0	0	43.473	56.527		
Total %	0	0	0	9.2878	8.491	17.779	0	0	0	5.6275	9.6365	15.264	0	0	0	29.109	37.849	66.957	
Exiting Leg Total	714						613						2689						4016

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

9:30 AM	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
9:30 AM	0	0	0	5	2	7	0	0	0	2	8	10	0	0	0	9	15	24	41
9:45 AM	0	0	0	5	4	9	0	0	0	2	2	4	0	0	0	11	14	25	38
10:00 AM	0	0	0	5	4	9	0	0	0	4	3	7	0	0	0	7	11	18	34
10:15 AM	0	0	0	3	4	7	0	0	0	2	6	8	0	0	0	18	19	37	52
Total Volume	0	0	0	18	14	32	0	0	0	10	19	29	0	0	0	45	59	104	165
% Approach Total	0.0	0.0	0.0	56.3	43.8		0.0	0.0	0.0	34.5	65.5		0.0	0.0	0.0	43.3	56.7		
PHF	0.000	0.000	0.000	0.900	0.875	0.889	0.000	0.000	0.000	0.625	0.594	0.725	0.000	0.000	0.000	0.625	0.776	0.703	0.793
Entering Leg	0	0	0	18	14	32	0	0	0	10	19	29	0	0	0	45	59	104	165
Exiting Leg	32						29						104						165
Total	64						58						208						330

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

12:15 PM	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
12:15 PM	0	0	0	7	6	13	0	0	0	6	17	23	0	0	0	33	50	83	119
12:30 PM	0	0	0	14	12	26	0	0	0	7	12	19	0	0	0	32	40	72	117
12:45 PM	0	0	0	16	15	31	0	0	0	2	14	16	0	0	0	38	46	84	131
1:00 PM	0	0	0	7	15	22	0	0	0	4	16	20	0	0	0	28	42	70	112
Total Volume	0	0	0	44	48	92	0	0	0	19	59	78	0	0	0	131	178	309	479
% Approach Total	0.0	0.0	0.0	47.8	52.2		0.0	0.0	0.0	24.4	75.6		0.0	0.0	0.0	42.4	57.6		
PHF	0.000	0.000	0.000	0.688	0.800	0.742	0.000	0.000	0.000	0.679	0.868	0.848	0.000	0.000	0.000	0.862	0.890	0.920	0.914
Entering Leg	0	0	0	44	48	92	0	0	0	19	59	78	0	0	0	131	178	309	479
Exiting Leg	92						78						309						479
Total	184						156						618						958

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

4:45 PM	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
4:45 PM	0	0	0	9	9	18	0	0	0	6	5	11	0	0	0	38	59	97	126
5:00 PM	0	0	0	10	9	19	0	0	0	3	5	8	0	0	0	40	42	82	109
5:15 PM	0	0	0	8	7	15	0	0	0	11	11	22	0	0	0	28	47	75	112
5:30 PM	0	0	0	7	8	15	0	0	0	4	13	17	0	0	0	50	48	98	130
Total Volume	0	0	0	34	33	67	0	0	0	24	34	58	0	0	0	156	196	352	477
% Approach Total	0.0	0.0	0.0	50.7	49.3		0.0	0.0	0.0	41.4	58.6		0.0	0.0	0.0	44.3	55.7		
PHF	0.000	0.000	0.000	0.850	0.917	0.882	0.000	0.000	0.000	0.545	0.654	0.659	0.000	0.000	0.000	0.780	0.831	0.898	0.917
Entering Leg	0	0	0	34	33	67	0	0	0	24	34	58	0	0	0	156	196	352	477
Exiting Leg	67						58						352						477
Total	134						116						704						954

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	23	127	0	150	0	0	0	0	0	0	0	0	0	150
11:15 AM	15	144	0	159	0	0	0	0	0	0	0	0	0	159
11:30 AM	22	143	0	165	0	0	0	0	0	0	0	0	0	165
11:45 AM	21	153	0	174	0	0	0	0	0	0	0	0	0	174
Total	81	567	0	648	0	0	0	0	0	0	0	0	0	648
12:00 PM	25	158	0	183	0	0	0	0	0	0	0	0	0	183
12:15 PM	39	130	0	169	0	0	0	0	0	0	0	0	0	169
12:30 PM	35	125	0	160	0	0	0	0	0	0	0	0	0	160
12:45 PM	24	158	0	182	0	0	0	0	0	0	0	0	0	182
Total	123	571	0	694	0	0	0	0	0	0	0	0	0	694
1:00 PM	23	136	0	159	0	0	0	0	0	0	0	0	0	159
1:15 PM	36	130	0	166	0	0	0	0	0	0	0	0	0	166
1:30 PM	17	150	0	167	0	0	0	0	0	0	0	0	0	167
1:45 PM	31	144	0	175	0	0	0	0	0	0	0	0	0	175
Total	107	560	0	667	0	0	0	0	0	0	0	0	0	667
Grand Total	311	1698	0	2009	0	0	0	0	0	0	0	0	0	2009
Approach %	15.5	84.5	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	15.5	84.5	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				1698				311	2009	
Cars	309	1655	0	1964	0	0	0	0	0	0	0	0	0	1964
% Cars	99.4	97.5	0.0	97.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.8
Exiting Leg Total				0				1655				309	1964	
Heavy Vehicles	2	43	0	45	0	0	0	0	0	0	0	0	0	45
% Heavy Vehicles	0.6	2.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Exiting Leg Total				0				43				2	45	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
12:00 PM	25	158	0	183	0	0	0	0	0	0	0	0	0	183
12:15 PM	39	130	0	169	0	0	0	0	0	0	0	0	0	169
12:30 PM	35	125	0	160	0	0	0	0	0	0	0	0	0	160
12:45 PM	24	158	0	182	0	0	0	0	0	0	0	0	0	182
Total Volume	123	571	0	694	0	0	0	0	0	0	0	0	0	694
% Approach Total	17.7	82.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.788	0.903	0.000	0.948	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.948
Cars	122	557	0	679	0	0	0	0	0	0	0	0	0	679
Cars %	99.2	97.5	0.0	97.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.8
Heavy Vehicles	1	14	0	15	0	0	0	0	0	0	0	0	0	15
Heavy Vehicles %	0.8	2.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Cars Enter Leg	122	557	0	679	0	0	0	0	0	0	0	0	0	679
Heavy Enter Leg	1	14	0	15	0	0	0	0	0	0	0	0	0	15
Total Entering Leg	123	571	0	694	0	0	0	0	0	0	0	0	0	694
Cars Exiting Leg				0				557				122	679	
Heavy Exiting Leg				0				14				1	15	
Total Exiting Leg				0				571				123	694	

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class:

Cars

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	23	123	0	146	0	0	0	0	0	0	0	0	0	146
11:15 AM	15	139	0	154	0	0	0	0	0	0	0	0	0	154
11:30 AM	22	139	0	161	0	0	0	0	0	0	0	0	0	161
11:45 AM	21	149	0	170	0	0	0	0	0	0	0	0	0	170
Total	81	550	0	631	0	0	0	0	0	0	0	0	0	631
12:00 PM	25	155	0	180	0	0	0	0	0	0	0	0	0	180
12:15 PM	39	127	0	166	0	0	0	0	0	0	0	0	0	166
12:30 PM	35	119	0	154	0	0	0	0	0	0	0	0	0	154
12:45 PM	23	156	0	179	0	0	0	0	0	0	0	0	0	179
Total	122	557	0	679	0	0	0	0	0	0	0	0	0	679
1:00 PM	23	134	0	157	0	0	0	0	0	0	0	0	0	157
1:15 PM	35	126	0	161	0	0	0	0	0	0	0	0	0	161
1:30 PM	17	146	0	163	0	0	0	0	0	0	0	0	0	163
1:45 PM	31	142	0	173	0	0	0	0	0	0	0	0	0	173
Total	106	548	0	654	0	0	0	0	0	0	0	0	0	654
Grand Total	309	1655	0	1964	0	0	0	0	0	0	0	0	0	1964
Approach %	15.7	84.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	15.7	84.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				1655					309	1964

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:00 PM	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
12:00 PM	25	155	0	180	0	0	0	0	0	0	0	0	0	180
12:15 PM	39	127	0	166	0	0	0	0	0	0	0	0	0	166
12:30 PM	35	119	0	154	0	0	0	0	0	0	0	0	0	154
12:45 PM	23	156	0	179	0	0	0	0	0	0	0	0	0	179
Total Volume	122	557	0	679	0	0	0	0	0	0	0	0	0	679
% Approach Total	18.0	82.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.782	0.893	0.000	0.943	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.943
Entering Leg	122	557	0	679	0	0	0	0	0	0	0	0	0	679
Exiting Leg				0				557				122		679
Total				679				557				122		1358

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
11:15 AM	0	5	0	5	0	0	0	0	0	0	0	0	0	5
11:30 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
11:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total	0	17	0	17	0	0	0	0	0	0	0	0	0	17
12:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
12:15 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
12:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
12:45 PM	1	2	0	3	0	0	0	0	0	0	0	0	0	3
Total	1	14	0	15	0	0	0	0	0	0	0	0	0	15
1:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
1:15 PM	1	4	0	5	0	0	0	0	0	0	0	0	0	5
1:30 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
1:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	1	12	0	13	0	0	0	0	0	0	0	0	0	13
Grand Total	2	43	0	45	0	0	0	0	0	0	0	0	0	45
Approach %	4.4	95.6	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	4.4	95.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total				0				43					2	45
Buses	0	33	0	33	0	0	0	0	0	0	0	0	0	33
% Buses	0.0	76.7	0.0	73.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.3
Exiting Leg Total				0				33					0	33
Single-Unit Trucks	2	10	0	12	0	0	0	0	0	0	0	0	0	12
% Single-Unit	100.0	23.3	0.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7
Exiting Leg Total				0				10					2	12
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total				0				0					0	0

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
11:15 AM	0	5	0	5	0	0	0	0	0	0	0	0	0	5
11:30 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
11:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total Volume	0	17	0	17	0	0	0	0	0	0	0	0	0	17
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.850	0.000	0.850	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.850
Buses	0	11	0	11	0	0	0	0	0	0	0	0	0	11
Buses %	0.0	64.7	0.0	64.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.7
Single-Unit Trucks	0	6	0	6	0	0	0	0	0	0	0	0	0	6
Single-Unit %	0.0	35.3	0.0	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buses	0	11	0	11	0	0	0	0	0	0	0	0	0	11
Single-Unit Trucks	0	6	0	6	0	0	0	0	0	0	0	0	0	6
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Entering Leg	0	17	0	17	0	0	0	0	0	0	0	0	0	17
Buses				0				11					0	11
Single-Unit Trucks				0				6					0	6
Articulated Trucks				0				0					0	0
Total Exiting Leg				0				17					0	17

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class:

Buses

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
11:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
11:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total	0	11	0	11	0	0	0	0	0	0	0	0	0	11
12:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
12:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	0	12	0	12	0	0	0	0	0	0	0	0	0	12
1:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
1:15 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
1:30 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
1:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	10	0	10	0	0	0	0	0	0	0	0	0	10
Grand Total	0	33	0	33	0	0	0	0	0	0	0	0	0	33
Approach %	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total				0				33					0	33

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:45 AM	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
12:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
Total Volume	0	14	0	14	0	0	0	0	0	0	0	0	0	14
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.583	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583
Entering Leg	0	14	0	14	0	0	0	0	0	0	0	0	0	14
Exiting Leg				0				14					0	14
Total				14				14					0	28

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	6	0	6	0	0	0	0	0	0	0	0	0	6
12:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	1	2	0	3	0	0	0	0	0	0	0	0	0	3
1:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
1:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	1
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	1	2	0	3	0	0	0	0	0	0	0	0	0	3
Grand Total	2	10	0	12	0	0	0	0	0	0	0	0	0	12
Approach %	16.7	83.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	16.7	83.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total				0				10					2	12

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	6	0	6	0	0	0	0	0	0	0	0	0	6
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.375	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.375
Entering Leg	0	6	0	6	0	0	0	0	0	0	0	0	0	6
Exiting Leg				0				6					0	6
Total				6				6					0	12

PDI File #: **207718 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				0				0	0

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Elm Street				Elm Street				Chester Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg				0				0				0	0
Total				0				0				0	0

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	3
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	2	3
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	2	0	0	1	3	1	0	0	0	0	1	0	0	0	0	0	0	4
Total	0	3	0	0	1	4	1	0	0	0	0	1	0	1	0	1	0	2	7
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
1:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	1	4
Grand Total	0	8	0	0	1	9	1	0	0	0	0	1	1	1	0	1	1	4	14
Approach %	0.0	88.9	0.0	0.0	11.1		100.0	0.0	0.0	0.0	0.0		25.0	25.0	0.0	25.0	25.0		
Total %	0.0	57.1	0.0	0.0	7.1	64.3	7.1	0.0	0.0	0.0	0.0	7.1	7.1	7.1	0.0	7.1	7.1	28.6	
Exiting Leg Total	3						9						2						14

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:00 PM	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	2	3
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	2	0	0	1	3	1	0	0	0	0	1	0	0	0	0	0	0	4
Total Volume	0	3	0	0	1	4	1	0	0	0	0	1	0	1	0	1	0	2	7
% Approach Total	0.0	75.0	0.0	0.0	25.0	0.333	100.0	0.0	0.0	0.0	0.0	0.250	0.0	50.0	0.0	50.0	0.0	0.438	
PHF	0.000	0.375	0.000	0.000	0.250	0.333	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.250	0.000	0.250	0.438
Entering Leg	0	3	0	0	1	4	1	0	0	0	0	1	0	1	0	1	0	2	7
Exiting Leg	3						3						1						7
Total	7						4						3						14

PDI File #: 207718 C
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Elm Street						Chester Street						Total
	from North							from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	0	0	3	5	8	0	0	0	9	6	15	0	0	0	15	14	29	52	
11:15 AM	0	0	0	9	7	16	0	0	0	4	4	8	0	0	0	14	19	33	57	
11:30 AM	0	0	0	6	7	13	0	0	0	3	7	10	0	0	0	20	27	47	70	
11:45 AM	0	0	0	4	7	11	0	0	0	8	10	18	0	0	0	30	39	69	98	
Total	0	0	0	22	26	48	0	0	0	24	27	51	0	0	0	79	99	178	277	
12:00 PM	0	0	0	10	12	22	0	0	0	3	12	15	0	0	0	25	29	54	91	
12:15 PM	0	0	0	10	11	21	0	0	0	8	8	16	0	0	0	17	30	47	84	
12:30 PM	0	0	0	6	5	11	0	0	0	4	6	10	0	0	0	25	31	56	77	
12:45 PM	0	0	0	4	0	4	0	0	0	10	8	18	0	0	0	23	24	47	69	
Total	0	0	0	30	28	58	0	0	0	25	34	59	0	0	0	90	114	204	321	
1:00 PM	0	0	0	11	11	22	0	0	0	6	4	10	0	0	0	15	40	55	87	
1:15 PM	0	0	0	11	7	18	0	0	0	11	9	20	0	0	0	12	19	31	69	
1:30 PM	0	0	0	13	4	17	0	0	0	4	10	14	0	0	0	14	27	41	72	
1:45 PM	0	0	0	6	6	12	0	0	0	5	10	15	0	0	0	16	22	38	65	
Total	0	0	0	41	28	69	0	0	0	26	33	59	0	0	0	57	108	165	293	
Grand Total	0	0	0	93	82	175	0	0	0	75	94	169	0	0	0	226	321	547	891	
Approach %	0	0	0	53.143	46.857		0	0	0	44.379	55.621		0	0	0	41.316	58.684			
Total %	0	0	0	10.438	9.2031	19.641	0	0	0	8.4175	10.55	18.967	0	0	0	25.365	36.027	61.392		
Exiting Leg Total	175						169						547						891	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:45 AM	Elm Street							Elm Street						Chester Street						Total
	from North							from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total		
11:45 AM	0	0	0	4	7	11	0	0	0	8	10	18	0	0	0	30	39	69	98	
12:00 PM	0	0	0	10	12	22	0	0	0	3	12	15	0	0	0	25	29	54	91	
12:15 PM	0	0	0	10	11	21	0	0	0	8	8	16	0	0	0	17	30	47	84	
12:30 PM	0	0	0	10	11	21	0	0	0	8	8	16	0	0	0	17	30	47	84	
Total Volume	0	0	0	34	41	75	0	0	0	27	38	65	0	0	0	89	128	217	357	
% Approach Total	0.0	0.0	0.0	45.3	54.7		0.0	0.0	0.0	41.5	58.5		0.0	0.0	0.0	41.0	59.0			
PHF	0.000	0.000	0.000	0.850	0.854	0.852	0.000	0.000	0.000	0.844	0.792	0.903	0.000	0.000	0.000	0.742	0.821	0.786	0.911	
Entering Leg	0	0	0	34	41	75	0	0	0	27	38	65	0	0	0	89	128	217	357	
Exiting Leg	75						65						217						357	
Total	150						130						434						714	

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
Exiting Leg Total	4					1283					5201					10					6498
Cars	0	4242	1118	4	5364	0	2	612	0	614	3	0	0	0	3	75	90	0	5	170	6151
% Cars	0.0	94.4	94.2	100.0	94.3	0.0	66.7	97.0	0.0	96.8	100.0	0.0	0.0	0.0	100.0	98.7	96.8	0.0	83.3	97.1	94.7
Exiting Leg Total	4					1211					4929					7					6151
Heavy Vehicles	1	252	69	0	322	0	1	19	0	20	0	0	0	0	0	1	3	0	1	5	347
% Heavy Vehicles	100.0	5.6	5.8	0.0	5.7	0.0	33.3	3.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	1.3	3.2	0.0	16.7	2.9	5.3
Exiting Leg Total	0					72					272					3					347

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
9:45 AM	0	96	17	0	113	0	0	12	0	12	0	0	0	0	0	1	2	0	0	3	128
10:00 AM	0	95	15	0	110	0	0	17	0	17	0	0	0	0	0	2	0	0	0	2	129
10:15 AM	0	102	14	0	116	0	0	13	0	13	0	0	0	0	0	1	4	0	0	5	134
10:30 AM	0	100	19	0	119	0	0	17	0	17	0	0	0	0	0	1	0	0	0	1	137
Total Volume	0	393	65	0	458	0	0	59	0	59	0	0	0	0	0	5	6	0	0	11	528
% Approach Total	0.0	85.8	14.2	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		45.5	54.5	0.0	0.0		
PHF	0.000	0.963	0.855	0.000	0.962	0.000	0.000	0.868	0.000	0.868	0.000	0.000	0.000	0.000	0.000	0.625	0.375	0.000	0.000	0.550	0.964
Cars	0	363	57	0	420	0	0	56	0	56	0	0	0	0	0	5	6	0	0	11	487
Cars %	0.0	92.4	87.7	0.0	91.7	0.0	0.0	94.9	0.0	94.9	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	92.2
Heavy Vehicles	0	30	8	0	38	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	41
Heavy Vehicles %	0.0	7.6	12.3	0.0	8.3	0.0	0.0	5.1	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
Cars Enter Leg	0	363	57	0	420	0	0	56	0	56	0	0	0	0	0	5	6	0	0	11	487
Heavy Enter Leg	0	30	8	0	38	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	41
Total Entering Leg	0	393	65	0	458	0	0	59	0	59	0	0	0	0	0	5	6	0	0	11	528
Cars Exiting Leg	0					63					424					0					487
Heavy Exiting Leg	0					8					33					0					41
Total Exiting Leg	0					71					457					0					528

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	0	115	30	0	145	0	0	16	0	16	0	0	0	0	0	3	2	0	1	6	167
12:30 PM	0	97	34	0	131	0	0	16	0	16	0	0	0	0	0	4	4	0	1	9	156
12:45 PM	0	86	42	0	128	0	0	15	0	15	0	0	0	0	0	3	2	0	0	5	148
1:00 PM	0	102	33	0	135	0	0	18	0	18	0	0	0	0	0	0	2	0	0	2	155
Total Volume	0	400	139	0	539	0	0	65	0	65	0	0	0	0	0	10	10	0	2	22	626
% Approach Total	0.0	74.2	25.8	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		45.5	45.5	0.0	9.1		
PHF	0.000	0.870	0.827	0.000	0.929	0.000	0.000	0.903	0.000	0.903	0.000	0.000	0.000	0.000	0.000	0.625	0.625	0.000	0.500	0.611	0.937
Cars	0	379	135	0	514	0	0	64	0	64	0	0	0	0	0	10	10	0	2	22	600
Cars %	0.0	94.8	97.1	0.0	95.4	0.0	0.0	98.5	0.0	98.5	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	100.0	100.0	95.8
Heavy Vehicles	0	21	4	0	25	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	26
Heavy Vehicles %	0.0	5.3	2.9	0.0	4.6	0.0	0.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Cars Enter Leg	0	379	135	0	514	0	0	64	0	64	0	0	0	0	0	10	10	0	2	22	600
Heavy Enter Leg	0	21	4	0	25	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	26
Total Entering Leg	0	400	139	0	539	0	0	65	0	65	0	0	0	0	0	10	10	0	2	22	626
Cars Exiting Leg	0					145					453					2					600
Heavy Exiting Leg	0					4					22					0					26
Total Exiting Leg	0					149					475					2					626

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:15 PM	0	99	38	0	137	0	0	9	0	9	0	0	0	0	0	3	3	0	1	7	153
5:30 PM	0	102	38	1	141	0	0	17	0	17	0	0	0	0	0	2	6	0	0	8	166
5:45 PM	0	100	22	0	122	0	0	16	0	16	0	0	0	0	0	0	4	0	0	4	142
6:00 PM	0	94	48	1	143	0	0	13	0	13	0	0	0	0	0	0	5	0	0	5	161
Total Volume	0	395	146	2	543	0	0	55	0	55	0	0	0	0	0	5	18	0	1	24	622
% Approach Total	0.0	72.7	26.9	0.4		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		20.8	75.0	0.0	4.2		
PHF	0.000	0.968	0.760	0.500	0.949	0.000	0.000	0.809	0.000	0.809	0.000	0.000	0.000	0.000	0.000	0.417	0.750	0.000	0.250	0.750	0.937
Cars	0	381	141	2	524	0	0	55	0	55	0	0	0	0	0	5	18	0	1	24	603

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
Cars %	0.0	96.5	96.6	100.0	96.5	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	100.0	100.0	96.9
Heavy Vehicles	0	14	5	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Heavy Vehicles %	0.0	3.5	3.4	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
Cars Enter Leg	0	381	141	2	524	0	0	55	0	55	0	0	0	0	0	5	18	0	1	24	603
Heavy Enter Leg	0	14	5	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Total Entering Leg	0	395	146	2	543	0	0	55	0	55	0	0	0	0	0	5	18	0	1	24	622
Cars Exiting Leg					2					159					441					1	603
Heavy Exiting Leg					0					5					14					0	19
Total Exiting Leg					2					164					455					1	622

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Cars

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	52	6	0	58	0	0	6	0	6	0	0	0	0	0	2	0	0	0	2	66
7:15 AM	0	76	8	0	84	0	0	8	0	8	0	0	0	0	0	0	1	0	0	1	93
7:30 AM	0	96	2	0	98	0	0	12	0	12	0	0	0	0	0	0	1	0	0	1	111
7:45 AM	0	83	11	0	94	0	0	8	0	8	0	0	0	0	0	0	0	0	0	0	102
Total	0	307	27	0	334	0	0	34	0	34	0	0	0	0	0	2	2	0	0	4	372
8:00 AM	0	80	13	0	93	0	0	16	0	16	0	0	0	0	0	1	2	0	0	3	112
8:15 AM	0	94	14	0	108	0	0	13	0	13	0	0	0	0	0	2	0	0	0	2	123
8:30 AM	0	95	8	0	103	0	0	17	0	17	0	0	0	0	0	0	0	0	0	0	120
8:45 AM	0	86	10	0	96	0	0	13	0	13	0	0	0	0	0	1	1	0	0	2	111
Total	0	355	45	0	400	0	0	59	0	59	0	0	0	0	0	4	3	0	0	7	466
9:00 AM	0	73	17	0	90	0	0	15	0	15	0	0	0	0	0	1	0	0	0	1	106
9:15 AM	0	75	16	0	91	0	0	11	0	11	0	0	0	0	0	0	1	0	0	1	103
9:30 AM	0	85	15	0	100	0	0	8	0	8	0	0	0	0	0	0	0	0	0	0	108
9:45 AM	0	87	15	0	102	0	0	12	0	12	0	0	0	0	0	1	2	0	0	3	117
Total	0	320	63	0	383	0	0	46	0	46	0	0	0	0	0	2	3	0	0	5	434
10:00 AM	0	93	14	0	107	0	0	14	0	14	0	0	0	0	0	2	0	0	0	2	123
10:15 AM	0	90	12	0	102	0	0	13	0	13	0	0	0	0	0	1	4	0	0	5	120
10:30 AM	0	93	16	0	109	0	0	17	0	17	0	0	0	0	0	1	0	0	0	1	127
10:45 AM	0	89	13	0	102	0	0	11	0	11	0	0	0	0	0	3	3	0	0	6	119
Total	0	365	55	0	420	0	0	55	0	55	0	0	0	0	0	7	7	0	0	14	489
11:00 AM	0	78	19	0	97	0	0	8	0	8	0	0	0	0	0	1	1	0	0	2	107
11:15 AM	0	88	28	0	116	0	0	14	0	14	0	0	0	0	0	1	2	0	0	3	133
11:30 AM	0	87	29	0	116	0	0	16	0	16	0	0	0	0	0	3	1	0	0	4	136
11:45 AM	0	87	24	0	111	0	0	11	0	11	0	0	0	0	0	2	1	0	0	3	125
Total	0	340	100	0	440	0	0	49	0	49	0	0	0	0	0	7	5	0	0	12	501
12:00 PM	0	96	28	0	124	0	0	15	0	15	0	0	0	0	0	1	1	0	0	2	141
12:15 PM	0	111	29	0	140	0	0	16	0	16	0	0	0	0	0	3	2	0	1	6	162
12:30 PM	0	89	32	0	121	0	0	15	0	15	0	0	0	0	0	4	4	0	1	9	145
12:45 PM	0	82	42	0	124	0	0	15	0	15	0	0	0	0	0	3	2	0	0	5	144
Total	0	378	131	0	509	0	0	61	0	61	0	0	0	0	0	11	9	0	2	22	592
1:00 PM	0	97	32	0	129	0	0	18	0	18	0	0	0	0	0	0	2	0	0	2	149
1:15 PM	0	87	44	0	131	0	0	11	0	11	0	0	0	0	0	2	2	0	0	4	146
1:30 PM	0	96	22	0	118	0	0	15	0	15	1	0	0	0	1	0	2	0	0	2	136
1:45 PM	0	87	23	0	110	0	0	10	0	10	0	0	0	0	0	2	1	0	0	3	123
Total	0	367	121	0	488	0	0	54	0	54	1	0	0	0	1	4	7	0	0	11	554
2:00 PM	0	105	13	0	118	0	0	3	0	3	0	0	0	0	0	1	4	0	0	5	126
2:15 PM	0	97	17	0	114	0	1	11	0	12	0	0	0	0	0	0	0	0	0	0	126
2:30 PM	0	84	30	0	114	0	0	16	0	16	0	0	0	0	0	3	1	0	0	4	134
2:45 PM	0	77	32	0	109	0	0	13	0	13	0	0	0	0	0	0	3	0	0	3	125
Total	0	363	92	0	455	0	1	43	0	44	0	0	0	0	0	4	8	0	0	12	511
3:00 PM	0	101	22	0	123	0	1	12	0	13	0	0	0	0	0	1	3	0	0	4	140
3:15 PM	0	78	26	0	104	0	0	17	0	17	0	0	0	0	0	1	1	0	0	2	123
3:30 PM	0	91	18	0	109	0	0	15	0	15	0	0	0	0	0	1	0	0	0	1	125
3:45 PM	0	93	40	0	133	0	0	17	0	17	0	0	0	0	0	3	3	0	0	6	156
Total	0	363	106	0	469	0	1	61	0	62	0	0	0	0	0	6	7	0	0	13	544
4:00 PM	0	86	40	0	126	0	0	12	0	12	0	0	0	0	0	4	1	0	1	6	144
4:15 PM	0	89	26	1	116	0	0	13	0	13	0	0	0	0	0	2	3	0	0	5	134
4:30 PM	0	86	22	1	109	0	0	9	0	9	0	0	0	0	0	6	5	0	1	12	130
4:45 PM	0	92	28	0	120	0	0	15	0	15	0	0	0	0	0	2	1	0	0	3	138
Total	0	353	116	2	471	0	0	49	0	49	0	0	0	0	0	14	10	0	2	26	546
5:00 PM	0	87	32	0	119	0	0	12	0	12	0	0	0	0	0	2	4	0	0	6	137
5:15 PM	0	94	36	0	130	0	0	9	0	9	0	0	0	0	0	3	3	0	1	7	146
5:30 PM	0	100	36	1	137	0	0	17	0	17	0	0	0	0	0	2	6	0	0	8	162
5:45 PM	0	97	21	0	118	0	0	16	0	16	0	0	0	0	0	0	4	0	0	4	138
Total	0	378	125	1	504	0	0	54	0	54	0	0	0	0	0	7	17	0	1	25	583
6:00 PM	0	90	48	1	139	0	0	13	0	13	0	0	0	0	0	0	5	0	0	5	157
6:15 PM	0	71	33	0	104	0	0	17	0	17	1	0	0	0	1	1	4	0	0	5	127
6:30 PM	0	103	32	0	135	0	0	7	0	7	0	0	0	0	0	3	1	0	0	4	146
6:45 PM	0	89	24	0	113	0	0	10	0	10	1	0	0	0	1	3	2	0	0	5	129
Total	0	353	137	1	491	0	0	47	0	47	2	0	0	0	2	7	12	0	0	19	559
Grand Total	0	4242	1118	4	5364	0	2	612	0	614	3	0	0	0	3	75	90	0	5	170	6151
Approach %	0.0	79.1	20.8	0.1		0.0	0.3	99.7	0.0		100.0	0.0	0.0	0.0		44.1	52.9	0.0	2.9		

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
Total %	0.0	69.0	18.2	0.1	87.2	0.0	0.0	9.9	0.0	10.0	0.0	0.0	0.0	0.0	0.0	1.2	1.5	0.0	0.1	2.8	
Exiting Leg Total	4					1211					4929					7					6151

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
9:45 AM	0	87	15	0	102	0	0	12	0	12	0	0	0	0	0	1	2	0	0	3	117
10:00 AM	0	93	14	0	107	0	0	14	0	14	0	0	0	0	0	2	0	0	0	2	123
10:15 AM	0	90	12	0	102	0	0	13	0	13	0	0	0	0	0	1	4	0	0	5	120
10:30 AM	0	93	16	0	109	0	0	17	0	17	0	0	0	0	0	1	0	0	0	1	127
Total Volume	0	363	57	0	420	0	0	56	0	56	0	0	0	0	0	5	6	0	0	11	487
% Approach Total	0.0	86.4	13.6	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		45.5	54.5	0.0	0.0		
PHF	0.000	0.976	0.891	0.000	0.963	0.000	0.000	0.824	0.000	0.824	0.000	0.000	0.000	0.000	0.000	0.625	0.375	0.000	0.000	0.550	0.959
Entering Leg	0	363	57	0	420	0	0	56	0	56	0	0	0	0	0	5	6	0	0	11	487
Exiting Leg	0					0					424					0					487
Total	420					119					424					11					974

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	0	111	29	0	140	0	0	16	0	16	0	0	0	0	0	3	2	0	1	6	162
12:30 PM	0	89	32	0	121	0	0	15	0	15	0	0	0	0	0	4	4	0	1	9	145
12:45 PM	0	82	42	0	124	0	0	15	0	15	0	0	0	0	0	3	2	0	0	5	144
1:00 PM	0	97	32	0	129	0	0	18	0	18	0	0	0	0	0	0	2	0	0	2	149
Total Volume	0	379	135	0	514	0	0	64	0	64	0	0	0	0	0	10	10	0	2	22	600
% Approach Total	0.0	73.7	26.3	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		45.5	45.5	0.0	9.1		
PHF	0.000	0.854	0.804	0.000	0.918	0.000	0.000	0.889	0.000	0.889	0.000	0.000	0.000	0.000	0.000	0.625	0.625	0.000	0.500	0.611	0.926
Entering Leg	0	379	135	0	514	0	0	64	0	64	0	0	0	0	0	10	10	0	2	22	600
Exiting Leg	0					145					453					2					600
Total	514					209					453					24					1200

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:15 PM	0	94	36	0	130	0	0	9	0	9	0	0	0	0	0	3	3	0	1	7	146
5:30 PM	0	100	36	1	137	0	0	17	0	17	0	0	0	0	0	2	6	0	0	8	162
5:45 PM	0	97	21	0	118	0	0	16	0	16	0	0	0	0	0	0	4	0	0	4	138
6:00 PM	0	90	48	1	139	0	0	13	0	13	0	0	0	0	0	0	5	0	0	5	157
Total Volume	0	381	141	2	524	0	0	55	0	55	0	0	0	0	0	5	18	0	1	24	603
% Approach Total	0.0	72.7	26.9	0.4		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		20.8	75.0	0.0	4.2		
PHF	0.000	0.953	0.734	0.500	0.942	0.000	0.000	0.809	0.000	0.809	0.000	0.000	0.000	0.000	0.000	0.417	0.750	0.000	0.250	0.750	0.931
Entering Leg	0	381	141	2	524	0	0	55	0	55	0	0	0	0	0	5	18	0	1	24	603
Exiting Leg	2					159					441					1					603
Total	526					214					441					25					1206

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class: Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	14	2	0	16	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	17
7:15 AM	0	8	2	0	10	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	11
7:30 AM	0	6	4	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
7:45 AM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	0	34	9	0	43	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	45
8:00 AM	0	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8:15 AM	1	8	2	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
8:30 AM	0	10	1	0	11	0	1	0	0	1	0	0	0	0	0	0	1	0	1	2	14
8:45 AM	0	11	1	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	1	34	6	0	41	0	1	0	0	1	0	0	0	0	0	0	1	0	1	2	44
9:00 AM	0	6	2	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	9
9:15 AM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
9:30 AM	0	6	2	0	8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	9
9:45 AM	0	9	2	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	0	27	7	0	34	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	36
10:00 AM	0	2	1	0	3	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	6
10:15 AM	0	12	2	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
10:30 AM	0	7	3	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10:45 AM	0	4	3	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
Total	0	25	9	0	34	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	38
11:00 AM	0	4	1	0	5	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	7
11:15 AM	0	3	2	0	5	0	0	3	0	3	0	0	0	0	0	0	1	0	0	1	9
11:30 AM	0	3	1	0	4	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	6
11:45 AM	0	4	4	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	0	14	8	0	22	0	0	6	0	6	0	0	0	0	0	1	1	0	0	2	30
12:00 PM	0	2	1	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
12:15 PM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
12:30 PM	0	8	2	0	10	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	11
12:45 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	18	4	0	22	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	24
1:00 PM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
1:15 PM	0	8	1	0	9	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	10
1:30 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:45 PM	0	6	2	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	9
Total	0	23	4	0	27	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	29
2:00 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2:15 PM	0	8	1	0	9	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	10
2:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2:45 PM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	18	1	0	19	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	20
3:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3:15 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3:30 PM	0	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
3:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	13	4	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
4:00 PM	0	4	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	7	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
4:30 PM	0	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
4:45 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	18	8	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
5:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
5:30 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	13	5	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
6:00 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6:15 PM	0	3	1	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	5
6:30 PM	0	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
6:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	15	4	0	19	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	20
Grand Total	1	252	69	0	322	0	1	19	0	20	0	0	0	0	0	1	3	0	1	5	347
Approach %	0.3	78.3	21.4	0.0		0.0	5.0	95.0	0.0		0.0	0.0	0.0	0.0		20.0	60.0	0.0	20.0		
Total %	0.3	72.6	19.9	0.0	92.8	0.0	0.3	5.5	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.0	0.3	1.4	

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
Exiting Leg Total	0					72					272					3					347
Buses	0	144	39	0	183	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	185
% Buses	0.0	57.1	56.5	0.0	56.8	0.0	0.0	10.5	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.3
Exiting Leg Total	0					39					146					0					185
Single-Unit Trucks	1	100	24	0	125	0	1	12	0	13	0	0	0	0	0	1	3	0	1	5	143
% Single-Unit	100.0	39.7	34.8	0.0	38.8	0.0	100.0	63.2	0.0	65.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	100.0	100.0	41.2
Exiting Leg Total	0					27					113					3					143
Articulated Trucks	0	8	6	0	14	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	19
% Articulated	0.0	3.2	8.7	0.0	4.3	0.0	0.0	26.3	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
Exiting Leg Total	0					6					13					0					19

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
8:15 AM	1	8	2	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
8:30 AM	0	10	1	0	11	0	1	0	0	1	0	0	0	0	0	0	1	0	1	2	14
8:45 AM	0	11	1	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
9:00 AM	0	6	2	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	9
Total Volume	1	35	6	0	42	0	1	1	0	2	0	0	0	0	0	0	1	0	1	2	46
% Approach Total	2.4	83.3	14.3	0.0		0.0	50.0	50.0	0.0		0.0	0.0	0.0	0.0		0.0	50.0	0.0	50.0		
PHF	0.250	0.795	0.750	0.000	0.875	0.000	0.250	0.250	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.250	0.821
Buses	0	18	2	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Buses %	0.0	51.4	33.3	0.0	47.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5
Single-Unit Trucks	1	16	3	0	20	0	1	1	0	2	0	0	0	0	0	0	1	0	1	2	24
Single-Unit %	100.0	45.7	50.0	0.0	47.6	0.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	100.0	52.2
Articulated Trucks	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Articulated %	0.0	2.9	16.7	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
Buses	0	18	2	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Single-Unit Trucks	1	16	3	0	20	0	1	1	0	2	0	0	0	0	0	0	1	0	1	2	24
Articulated Trucks	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Entering Leg	1	35	6	0	42	0	1	1	0	2	0	0	0	0	0	0	1	0	1	2	46
Buses	0					2					18					0	20				
Single-Unit Trucks	0					4					17					3	24				
Articulated Trucks	0					1					1					0	2				
Total Exiting Leg	0					7					36					3	46				

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
10:15 AM	0	12	2	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
10:30 AM	0	7	3	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10:45 AM	0	4	3	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
11:00 AM	0	4	1	0	5	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	7
Total Volume	0	27	9	0	36	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	39
% Approach Total	0.0	75.0	25.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.563	0.750	0.000	0.643	0.000	0.000	0.375	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.696
Buses	0	9	3	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Buses %	0.0	33.3	33.3	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8
Single-Unit Trucks	0	17	6	0	23	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	24
Single-Unit %	0.0	63.0	66.7	0.0	63.9	0.0	0.0	33.3	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.5
Articulated Trucks	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
Articulated %	0.0	3.7	0.0	0.0	2.8	0.0	0.0	66.7	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
Buses	0	9	3	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Single-Unit Trucks	0	17	6	0	23	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	24
Articulated Trucks	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
Total Entering Leg	0	27	9	0	36	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	39
Buses	0					3					9					0	12				
Single-Unit Trucks	0					6					18					0	24				
Articulated Trucks	0					0					3					0	3				
Total Exiting Leg	0					9					30					0	39				

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
4:00 PM	Elm Street					Grove Street					Elm Street					Bowers Avenue						
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total	
4:00 PM	0	4	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	7	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
4:30 PM	0	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
4:45 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total Volume	0	18	8	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
% Approach Total	0.0	69.2	30.8	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.643	0.667	0.000	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.813
Buses	0	15	6	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Buses %	0.0	83.3	75.0	0.0	80.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.8
Single-Unit Trucks	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Single-Unit %	0.0	11.1	25.0	0.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4
Articulated Trucks	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Articulated %	0.0	5.6	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
Buses	0	15	6	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Single-Unit Trucks	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Articulated Trucks	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Entering Leg	0	18	8	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Buses					0					6					15						0	21
Single-Unit Trucks					0					2					2						0	4
Articulated Trucks					0					1					1						0	1
Total Exiting Leg					0					8					18						0	26

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	7	1	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	9
7:15 AM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:30 AM	0	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7:45 AM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	0	20	5	0	25	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	26
8:00 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8:30 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8:45 AM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	0	18	2	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
9:00 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9:15 AM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9:30 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9:45 AM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	11	2	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
10:00 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10:15 AM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10:30 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10:45 AM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	8	3	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
11:00 AM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:15 AM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	9	3	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
12:00 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:15 PM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:30 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	8	3	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
1:00 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:15 PM	0	2	1	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
1:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	10	3	0	13	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	14
2:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:15 PM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
2:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2:45 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	13	1	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
3:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:15 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
3:30 PM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
3:45 PM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	10	2	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
4:00 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:15 PM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:30 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	15	6	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
5:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
5:30 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:45 PM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	10	5	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
6:00 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6:15 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6:30 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	12	4	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Grand Total	0	144	39	0	183	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	185

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
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 Count Date: Thursday, December 3, 2020
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 Class:



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Buses

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
Approach %	0.0	78.7	21.3	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	77.8	21.1	0.0	98.9	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					39					146					0					185

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	7	1	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	9
7:15 AM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:30 AM	0	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7:45 AM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total Volume	0	20	5	0	25	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	26
% Approach Total	0.0	80.0	20.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.714	0.625	0.000	0.781	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.722
Entering Leg	0	20	5	0	25	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	26
Exiting Leg	0					5					21					0					26
Total	25					6					21					0					52

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
1:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:15 PM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total Volume	0	13	2	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
% Approach Total	0.0	86.7	13.3	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.542	0.500	0.000	0.536	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.536
Entering Leg	0	13	2	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Exiting Leg	0					2					13					0					15
Total	15					2					13					0					30

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:15 PM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:30 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total Volume	0	15	6	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
% Approach Total	0.0	71.4	28.6	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.625	0.750	0.000	0.875	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.875
Entering Leg	0	15	6	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Exiting Leg	0					6					15					0					21
Total	21					6					15					0					42

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7:15 AM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7:30 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	12	3	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
8:00 AM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8:15 AM	1	2	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8:30 AM	0	4	1	0	5	0	1	0	0	1	0	0	0	0	0	0	1	0	1	2	8
8:45 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	1	15	3	0	19	0	1	0	0	1	0	0	0	0	0	0	1	0	1	2	22
9:00 AM	0	5	1	0	6	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	7
9:15 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9:30 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	5
9:45 AM	0	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	0	15	5	0	20	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	22
10:00 AM	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
10:15 AM	0	9	1	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10:30 AM	0	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
10:45 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	16	6	0	22	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	24
11:00 AM	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
11:15 AM	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	1	0	0	1	4
11:30 AM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	3
11:45 AM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	4	2	0	6	0	0	4	0	4	0	0	0	0	0	1	1	0	0	2	12
12:00 PM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	5	0	0	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
12:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	10	0	0	10	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	12
1:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:15 PM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
1:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:45 PM	0	3	1	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	5
Total	0	13	1	0	14	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	15
2:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:15 PM	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	5	0	0	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
3:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:30 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
Grand Total	1	100	24	0	125	0	1	12	0	13	0	0	0	0	0	1	3	0	1	5	143

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
Approach %	0.8	80.0	19.2	0.0		0.0	7.7	92.3	0.0		0.0	0.0	0.0	0.0		20.0	60.0	0.0	20.0		
Total %	0.7	69.9	16.8	0.0	87.4	0.0	0.7	8.4	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.7	2.1	0.0	0.7	3.5	
Exiting Leg Total	0					27					113					3					143

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
9:45 AM	0	5	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
10:00 AM	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
10:15 AM	0	9	1	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10:30 AM	0	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total Volume	0	19	6	0	25	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	27
% Approach Total	0.0	76.0	24.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.528	0.500	0.000	0.625	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.675
Entering Leg	0	19	6	0	25	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	27
Exiting Leg	0										21					0					27
Total	25					8					21					0					54

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
10:00 AM	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
10:15 AM	0	9	1	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10:30 AM	0	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
10:45 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	16	6	0	22	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	24
% Approach Total	0.0	72.7	27.3	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.444	0.500	0.000	0.550	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.600
Entering Leg	0	16	6	0	22	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	24
Exiting Leg	0										18					0					24
Total	22					8					18					0					48

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
2:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:15 PM	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	5	0	0	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.000	0.625	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	0	5	0	0	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
Exiting Leg	0										6					0					6
Total	5					1					6					0					12

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Articulated Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	1	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10:00 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
10:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
11:00 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
11:30 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:45 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	3	0	4	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	6
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	8	6	0	14	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	19

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
Approach %	0.0	57.1	42.9	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	42.1	31.6	0.0	73.7	0.0	0.0	26.3	0.0	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					6					13					0					19

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	2	1	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	66.7	33.3	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.250	0.000	0.750	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Entering Leg	0	2	1	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
Exiting Leg	0					1					3					0					4
Total	3					2					3					0					8

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
10:45 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
11:30 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	1	2	0	3	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	33.3	66.7	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.250	0.500	0.000	0.375	0.000	0.000	0.750	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Entering Leg	0	1	2	0	3	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	
Exiting Leg	0					2					4					0					6
Total	3					5					4					0					12

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Entering Leg	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg	0					0					1					0					1
Total	1					0					1					0					2

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total			
	from North								from East								from South								from West											
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total					
Approach %	0.9	86.6	9.8	0.0	1.3	1.3		3.7	7.4	63.0	0.0	11.1	14.8		33.3	66.7	0.0	0.0	0.0	0.0		38.5	15.4	0.0	0.0	23.1	23.1									
Total %	0.7	72.7	8.2	0.0	1.1	1.1	83.9	0.4	0.7	6.4	0.0	1.1	1.5	10.1	0.4	0.7	0.0	0.0	0.0	0.0	1.1	1.9	0.7	0.0	0.0	1.1	1.1	4.9								
Exiting Leg Total	9								32								216								10								267			

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total					
	from North								from East								from South								from West													
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total							
9:00 AM	0	6	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	12	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	4	1	0	0	0	5	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	28	2	0	0	0	30	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	93.3	6.7	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0									
PHF	0.000	0.583	0.500	0.000	0.000	0.000	0.625	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.646		
Entering Leg	0	28	2	0	0	0	30	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg	0								2								29								0								31					
Total	30								3								29								0								62					

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total					
	from North								from East								from South								from West													
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total							
11:30 AM	0	4	1	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	4	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
12:00 PM	0	7	1	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	4	2	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Total Volume	0	19	4	0	1	1	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0
% Approach Total	0.0	76.0	16.0	0.0	4.0	4.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	50.0	0.0	0.0	50.0	50.0	0.0									
PHF	0.000	0.679	0.500	0.000	0.250	0.250	0.781	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.500	0.844	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.844		
Entering Leg	0	19	4	0	1	1	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0
Exiting Leg	2								5								19								1								27					
Total	27								5								19								3								54					

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total					
	from North								from East								from South								from West													
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total							
5:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
6:00 PM	0	4	3	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	1	5	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	8	1	0	0	0	9	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	21	5	0	0	0	27	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
% Approach Total	3.7	77.8	18.5	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	100.0									
PHF	0.250	0.656	0.417	0.000	0.000	0.000	0.750	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.725		
Entering Leg	1	21	5	0	0	0	27	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Exiting Leg	0								5								22								2								29					
Total	27								6								22								3								58					

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
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 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total						
	from North							from East							from South							from West													
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total							
Approach %	0	0	0	0	47.2	52.8	0	0	0	0	54.7	45.3	0	0	0	0	50	50	0	0	0	0	48.4	51.6											
Total %	0	0	0	0	12.5	14	26.4	0	0	0	0	18.5	15.4	33.9	0	0	0	0	1.18	1.18	2.37	0	0	0	0	18.1	19.3	37.3							
Exiting Leg Total	1003							1287							90							1418							3798						

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

9:45 AM	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
9:45 AM	0	0	0	0	1	11	12	0	0	0	0	5	6	11	0	0	0	0	0	0	0	0	0	0	0	6	11	17	40
10:00 AM	0	0	0	0	3	11	14	0	0	0	0	4	4	8	0	0	0	0	1	2	3	0	0	0	0	6	4	10	35
10:15 AM	0	0	0	0	4	5	9	0	0	0	0	3	6	9	0	0	0	0	0	0	0	0	0	0	0	10	9	19	37
10:30 AM	0	0	0	0	4	7	11	0	0	0	0	7	9	16	0	0	0	0	2	1	3	0	0	0	0	16	12	28	58
Total Volume	0	0	0	0	12	34	46	0	0	0	0	19	25	44	0	0	0	0	3	3	6	0	0	0	0	38	36	74	170
% Approach Total	0.0	0.0	0.0	0.0	26.1	73.9	0.0	0.0	0.0	0.0	43.2	56.8	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	51.4	48.6					
PHF	0.000	0.000	0.000	0.000	0.750	0.773	0.821	0.000	0.000	0.000	0.000	0.679	0.694	0.688	0.000	0.000	0.000	0.000	0.375	0.375	0.500	0.000	0.000	0.000	0.000	0.594	0.750	0.661	0.733
Entering Leg	0	0	0	0	12	34	46	0	0	0	0	19	25	44	0	0	0	0	3	3	6	0	0	0	0	38	36	74	170
Exiting Leg	46							44							6							74							170
Total	92							88							12							148							340

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

11:45 AM	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:45 AM	0	0	0	0	14	16	30	0	0	0	0	13	16	29	0	0	0	0	1	0	1	0	0	0	0	18	23	41	101
12:00 PM	0	0	0	0	10	10	20	0	0	0	0	20	13	33	0	0	0	0	1	1	2	0	0	0	0	21	20	41	96
12:15 PM	0	0	0	0	16	24	40	0	0	0	0	17	20	37	0	0	0	0	2	5	7	0	0	0	0	27	32	59	143
12:30 PM	0	0	0	0	15	11	26	0	0	0	0	17	11	28	0	0	0	0	1	0	1	0	0	0	0	15	18	33	88
Total Volume	0	0	0	0	55	61	116	0	0	0	0	67	60	127	0	0	0	0	5	6	11	0	0	0	0	81	93	174	428
% Approach Total	0.0	0.0	0.0	0.0	47.4	52.6	0.0	0.0	0.0	0.0	52.8	47.2	0.0	0.0	0.0	0.0	45.5	54.5	0.0	0.0	0.0	0.0	46.6	53.4					
PHF	0.000	0.000	0.000	0.000	0.859	0.635	0.725	0.000	0.000	0.000	0.000	0.838	0.750	0.858	0.000	0.000	0.000	0.000	0.625	0.300	0.393	0.000	0.000	0.000	0.000	0.750	0.727	0.737	0.748
Entering Leg	0	0	0	0	55	61	116	0	0	0	0	67	60	127	0	0	0	0	5	6	11	0	0	0	0	81	93	174	428
Exiting Leg	116							127							11							174							428
Total	232							254							22							348							856

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

5:00 PM	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	0	0	0	20	13	33	0	0	0	0	28	13	41	0	0	0	0	2	0	2	0	0	0	0	12	16	28	104
5:15 PM	0	0	0	0	18	15	33	0	0	0	0	17	23	40	0	0	0	0	2	5	7	0	0	0	0	10	20	30	110
5:30 PM	0	0	0	0	17	16	33	0	0	0	0	31	16	47	0	0	0	0	3	2	5	0	0	0	0	18	17	35	120
5:45 PM	0	0	0	0	26	26	52	0	0	0	0	26	23	49	0	0	0	0	1	2	3	0	0	0	0	11	24	35	139
Total Volume	0	0	0	0	81	70	151	0	0	0	0	102	75	177	0	0	0	0	8	9	17	0	0	0	0	51	77	128	473
% Approach Total	0.0	0.0	0.0	0.0	53.6	46.4	0.0	0.0	0.0	0.0	57.6	42.4	0.0	0.0	0.0	0.0	47.1	52.9	0.0	0.0	0.0	0.0	39.8	60.2					
PHF	0.000	0.000	0.000	0.000	0.779	0.673	0.726	0.000	0.000	0.000	0.000	0.823	0.815	0.903	0.000	0.000	0.000	0.000	0.667	0.450	0.607	0.000	0.000	0.000	0.000	0.708	0.802	0.914	0.851
Entering Leg	0	0	0	0	81	70	151	0	0	0	0	102	75	177	0	0	0	0	8	9	17	0	0	0	0	51	77	128	473
Exiting Leg	151							177							17							128							473
Total	302							354							34							256							946

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	104	27	0	131	0	0	13	0	13	1	0	0	0	1	0	2	0	0	2	147
11:15 AM	0	105	38	0	143	0	0	22	0	22	0	0	0	0	0	4	3	0	0	7	172
11:30 AM	0	112	32	0	144	0	0	20	0	20	0	0	0	0	0	1	0	0	0	1	165
11:45 AM	2	117	31	0	150	0	0	17	0	17	0	0	0	0	0	0	4	0	0	4	171
Total	2	438	128	0	568	0	0	72	0	72	1	0	0	0	1	5	9	0	0	14	655
12:00 PM	0	121	42	0	163	0	0	12	0	12	0	0	0	0	0	3	1	0	0	4	179
12:15 PM	0	97	35	0	132	0	0	18	0	18	0	0	0	0	0	3	1	0	0	4	154
12:30 PM	0	97	26	0	123	0	0	20	0	20	0	0	0	0	0	6	7	0	0	13	156
12:45 PM	0	121	35	0	156	0	0	20	0	20	0	0	0	0	0	1	2	0	0	3	179
Total	0	436	138	0	574	0	0	70	0	70	0	0	0	0	0	13	11	0	0	24	668
1:00 PM	0	98	40	0	138	0	0	23	0	23	0	0	0	0	0	5	4	0	0	9	170
1:15 PM	0	102	28	0	130	0	0	19	0	19	0	0	0	0	0	1	4	0	0	5	154
1:30 PM	0	109	38	0	147	0	0	20	0	20	0	0	0	0	0	1	2	0	0	3	170
1:45 PM	0	115	32	0	147	0	0	20	0	20	0	0	0	0	0	3	1	0	0	4	171
Total	0	424	138	0	562	0	0	82	0	82	0	0	0	0	0	10	11	0	0	21	665
Grand Total	2	1298	404	0	1704	0	0	224	0	224	1	0	0	0	1	28	31	0	0	59	1988
Approach %	0.1	76.2	23.7	0.0		0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		47.5	52.5	0.0	0.0		
Total %	0.1	65.3	20.3	0.0	85.7	0.0	0.0	11.3	0.0	11.3	0.1	0.0	0.0	0.0	0.1	1.4	1.6	0.0	0.0	3.0	
Exiting Leg Total	0					436					1550					2					1988
Cars	2	1267	390	0	1659	0	0	222	0	222	1	0	0	0	1	28	31	0	0	59	1941
% Cars	100.0	97.6	96.5	0.0	97.4	0.0	0.0	99.1	0.0	99.1	100.0	0.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	97.6
Exiting Leg Total	0					422					1517					2					1941
Heavy Vehicles	0	31	14	0	45	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	47
% Heavy Vehicles	0.0	2.4	3.5	0.0	2.6	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Exiting Leg Total	0					14					33					0					47

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	105	38	0	143	0	0	22	0	22	0	0	0	0	0	4	3	0	0	7	172
11:30 AM	0	112	32	0	144	0	0	20	0	20	0	0	0	0	0	1	0	0	0	1	165
11:45 AM	2	117	31	0	150	0	0	17	0	17	0	0	0	0	0	0	4	0	0	4	171
12:00 PM	0	121	42	0	163	0	0	12	0	12	0	0	0	0	0	3	1	0	0	4	179
Total Volume	2	455	143	0	600	0	0	71	0	71	0	0	0	0	0	8	8	0	0	16	687
% Approach Total	0.3	75.8	23.8	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		50.0	50.0	0.0	0.0		
PHF	0.250	0.940	0.851	0.000	0.920	0.000	0.000	0.807	0.000	0.807	0.000	0.000	0.000	0.000	0.000	0.500	0.500	0.000	0.000	0.571	0.959
Cars	2	443	138	0	583	0	0	70	0	70	0	0	0	0	0	8	8	0	0	16	669
Cars %	100.0	97.4	96.5	0.0	97.2	0.0	0.0	98.6	0.0	98.6	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	97.4
Heavy Vehicles	0	12	5	0	17	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	18
Heavy Vehicles %	0.0	2.6	3.5	0.0	2.8	0.0	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Cars Enter Leg	2	443	138	0	583	0	0	70	0	70	0	0	0	0	0	8	8	0	0	16	669
Heavy Enter Leg	0	12	5	0	17	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	18
Total Entering Leg	2	455	143	0	600	0	0	71	0	71	0	0	0	0	0	8	8	0	0	16	687
Cars Exiting Leg	0					146					521					2					669
Heavy Exiting Leg	0					5					13					0					18
Total Exiting Leg	0					151					534					2					687

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	101	25	0	126	0	0	13	0	13	1	0	0	0	1	0	2	0	0	2	142
11:15 AM	0	102	36	0	138	0	0	22	0	22	0	0	0	0	0	4	3	0	0	7	167
11:30 AM	0	109	31	0	140	0	0	20	0	20	0	0	0	0	0	1	0	0	0	1	161
11:45 AM	2	114	29	0	145	0	0	16	0	16	0	0	0	0	0	0	4	0	0	4	165
Total	2	426	121	0	549	0	0	71	0	71	1	0	0	0	1	5	9	0	0	14	635
12:00 PM	0	118	42	0	160	0	0	12	0	12	0	0	0	0	0	3	1	0	0	4	176
12:15 PM	0	96	33	0	129	0	0	18	0	18	0	0	0	0	0	3	1	0	0	4	151
12:30 PM	0	92	25	0	117	0	0	20	0	20	0	0	0	0	0	6	7	0	0	13	150
12:45 PM	0	120	34	0	154	0	0	19	0	19	0	0	0	0	0	1	2	0	0	3	176
Total	0	426	134	0	560	0	0	69	0	69	0	0	0	0	0	13	11	0	0	24	653
1:00 PM	0	96	40	0	136	0	0	23	0	23	0	0	0	0	0	5	4	0	0	9	168
1:15 PM	0	100	26	0	126	0	0	19	0	19	0	0	0	0	0	1	4	0	0	5	150
1:30 PM	0	105	38	0	143	0	0	20	0	20	0	0	0	0	0	1	2	0	0	3	166
1:45 PM	0	114	31	0	145	0	0	20	0	20	0	0	0	0	0	3	1	0	0	4	169
Total	0	415	135	0	550	0	0	82	0	82	0	0	0	0	0	10	11	0	0	21	653
Grand Total	2	1267	390	0	1659	0	0	222	0	222	1	0	0	0	1	28	31	0	0	59	1941
Approach %	0.1	76.4	23.5	0.0		0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		47.5	52.5	0.0	0.0		
Total %	0.1	65.3	20.1	0.0	85.5	0.0	0.0	11.4	0.0	11.4	0.1	0.0	0.0	0.0	0.1	1.4	1.6	0.0	0.0	3.0	
Exiting Leg Total	0					422					1517					2					1941

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	102	36	0	138	0	0	22	0	22	0	0	0	0	0	4	3	0	0	7	167
11:30 AM	0	109	31	0	140	0	0	20	0	20	0	0	0	0	0	1	0	0	0	1	161
11:45 AM	2	114	29	0	145	0	0	16	0	16	0	0	0	0	0	0	4	0	0	4	165
12:00 PM	0	118	42	0	160	0	0	12	0	12	0	0	0	0	0	3	1	0	0	4	176
Total Volume	2	443	138	0	583	0	0	70	0	70	0	0	0	0	0	8	8	0	0	16	669
% Approach Total	0.3	76.0	23.7	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		50.0	50.0	0.0	0.0		
PHF	0.250	0.939	0.821	0.000	0.911	0.000	0.000	0.795	0.000	0.795	0.000	0.000	0.000	0.000	0.000	0.500	0.500	0.000	0.000	0.571	0.950
Entering Leg	2	443	138	0	583	0	0	70	0	70	0	0	0	0	0	8	8	0	0	16	669
Exiting Leg	0					146					521					2					669
Total	583					216					521					18					1338

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11:15 AM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11:30 AM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:45 AM	0	3	2	0	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	0	12	7	0	19	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
12:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:15 PM	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:30 PM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
12:45 PM	0	1	1	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	10	4	0	14	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
1:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:15 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:30 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:45 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	9	3	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Grand Total	0	31	14	0	45	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Approach %	0.0	68.9	31.1	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0							
Total %	0.0	66.0	29.8	0.0	95.7	0.0	0.0	4.3	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					14					33					0					47					
Buses	0	25	9	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
% Buses	0.0	80.6	64.3	0.0	75.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.3
Exiting Leg Total	0					9					25					0					34					
Single-Unit Trucks	0	6	5	0	11	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
% Single-Unit	0.0	19.4	35.7	0.0	24.4	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7
Exiting Leg Total	0					5					8					0					13					
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total	0					0					0					0					0					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11:15 AM	0	3	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11:30 AM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:45 AM	0	3	2	0	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total Volume	0	12	7	0	19	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
% Approach Total	0.0	63.2	36.8	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0							
PHF	0.000	1.000	0.875	0.000	0.950	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.833	
Buses	0	7	4	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Buses %	0.0	58.3	57.1	0.0	57.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0
Single-Unit Trucks	0	5	3	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Single-Unit %	0.0	41.7	42.9	0.0	42.1	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buses	0	7	4	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Single-Unit Trucks	0	5	3	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Entering Leg	0	12	7	0	19	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Buses	0					4					7					0					11					
Single-Unit Trucks	0					3					6					0					9					
Articulated Trucks	0					0					0					0					0					
Total Exiting Leg	0					7					13					0					20					

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:45 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	7	4	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:15 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
12:45 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	10	3	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
1:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1:15 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:30 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	8	2	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Grand Total	0	25	9	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Approach %	0.0	73.5	26.5	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	73.5	26.5	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					9					25					0					34					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:45 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:15 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total Volume	0	11	4	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
% Approach Total	0.0	73.3	26.7	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.550	0.500	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	
Entering Leg	0	11	4	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Exiting Leg	0					4					11					0					15					
Total	15					4					11					0					30					

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Single-Unit Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	5	3	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	0	6	5	0	11	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Approach %	0.0	54.5	45.5	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0							
Total %	0.0	46.2	38.5	0.0	84.6	0.0	0.0	15.4	0.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Exiting Leg Total	0					5					8					0					13					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Volume	0	5	3	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
% Approach Total	0.0	62.5	37.5	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0							
PHF	0.000	0.625	0.375	0.000	0.500	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.563	
Entering Leg	0	5	3	0	8	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Exiting Leg	0					3					6					0					9					
Total	8					4					6					0					18					

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Articulated Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					0					0					0					0

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg	0					0					0					0					0
Total	0					0					0					0					0

PDI File #: **207718 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1	1	0	0	0	0	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2	
Total	0	2	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3		
1:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
1:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
1:30 PM	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3		
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	3	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	5		
Grand Total	1	6	1	0	0	0	8	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	11		
Approach %	12.5	75.0	12.5	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	100.0	0.0			
Total %	9.1	54.5	9.1	0.0	0.0	0.0	72.7	0.0	0.0	9.1	0.0	0.0	0.0	9.1	0.0	9.1	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	9.1	0.0	9.1		
Exiting Leg Total	1							1							7							2							11

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:45 PM	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
12:45 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
1:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
1:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
1:30 PM	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3		
Total Volume	0	4	1	0	0	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	7		
% Approach Total	0.0	80.0	20.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	100.0	0.0			
PHF	0.000	1.000	0.250	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.250	0.583	
Entering Leg	0	4	1	0	0	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	7		
Exiting Leg	1							1							4							1							7
Total	6							1							5							2							14

PDI File #: 207718 D
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	0	0	0	6	5	11		0	0	0	0	10	5	15		0	0	0	0	0	0	0		0	0	0	0	3	9	12		38
11:15 AM	0	0	0	0	6	9	15		0	0	0	0	11	15	26		0	0	0	0	0	1	1		0	0	0	0	12	6	18		60
11:30 AM	0	0	0	0	12	8	20		0	0	0	0	15	9	24		0	0	0	0	0	2	2		0	0	0	0	19	13	32		78
11:45 AM	0	0	0	0	8	14	22		0	0	0	0	11	19	30		0	0	0	0	0	1	1		0	0	0	0	19	21	40		93
Total	0	0	0	0	32	36	68		0	0	0	0	47	48	95		0	0	0	0	0	4	4		0	0	0	0	53	49	102		269
12:00 PM	0	0	0	0	3	16	19		0	0	0	0	21	14	35		0	0	0	0	1	3	4		0	0	0	0	9	13	22		80
12:15 PM	0	0	0	0	10	13	23		0	0	0	0	18	14	32		0	0	0	0	1	1	2		0	0	0	0	15	18	33		90
12:30 PM	0	0	0	0	13	10	23		0	0	0	0	11	15	26		0	0	0	0	0	0	0		0	0	0	0	17	11	28		77
12:45 PM	0	0	0	0	19	12	31		0	0	0	0	12	13	25		0	0	0	0	1	0	1		0	0	0	0	17	15	32		89
Total	0	0	0	0	45	51	96		0	0	0	0	62	56	118		0	0	0	0	3	4	7		0	0	0	0	58	57	115		336
1:00 PM	0	0	0	0	12	18	30		0	0	0	0	12	12	24		0	0	0	0	0	0	0		0	0	0	0	13	19	32		86
1:15 PM	0	0	0	0	18	19	37		0	0	0	0	23	26	49		0	0	0	0	2	1	3		0	0	0	0	8	16	24		113
1:30 PM	0	0	0	0	27	15	42		0	0	0	0	30	20	50		0	0	0	0	1	0	1		0	0	0	0	17	14	31		124
1:45 PM	0	0	0	0	19	9	28		0	0	0	0	19	6	25		0	0	0	0	0	0	0		0	0	0	0	12	16	28		81
Total	0	0	0	0	76	61	137		0	0	0	0	84	64	148		0	0	0	0	3	1	4		0	0	0	0	50	65	115		404
Grand Total	0	0	0	0	153	148	301		0	0	0	0	193	168	361		0	0	0	0	6	9	15		0	0	0	0	161	171	332		1009
Approach %	0	0	0	0	50.8	49.2		0	0	0	0	53.5	46.5		0	0	0	0	40	60		0	0	0	0	48.5	51.5						
Total %	0	0	0	0	15.2	14.7	29.8		0	0	0	0	19.1	16.7	35.8		0	0	0	0	0.59	0.89	1.49		0	0	0	0	16	16.9	32.9		
Exiting Leg Total	301								361								15								332							1009	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
12:45 PM	0	0	0	0	19	12	31		0	0	0	0	12	13	25		0	0	0	0	1	0	1		0	0	0	0	17	15	32		89
1:00 PM	0	0	0	0	12	18	30		0	0	0	0	12	12	24		0	0	0	0	0	0	0		0	0	0	0	13	19	32		86
1:15 PM	0	0	0	0	18	19	37		0	0	0	0	23	26	49		0	0	0	0	2	1	3		0	0	0	0	8	16	24		113
1:30 PM	0	0	0	0	27	15	42		0	0	0	0	30	20	50		0	0	0	0	1	0	1		0	0	0	0	17	14	31		124
Total Volume	0	0	0	0	76	64	140		0	0	0	0	77	71	148		0	0	0	0	4	1	5		0	0	0	0	55	64	119		412
% Approach Total	0.0	0.0	0.0	0.0	54.3	45.7		0.0	0.0	0.0	0.0	52.0	48.0		0.0	0.0	0.0	0.0	80.0	20.0		0.0	0.0	0.0	0.0	46.2	53.8						
PHF	0.000	0.000	0.000	0.000	0.704	0.842	0.833		0.000	0.000	0.000	0.000	0.642	0.683	0.740		0.000	0.000	0.000	0.000	0.500	0.250	0.417		0.000	0.000	0.000	0.000	0.809	0.842	0.930		0.831
Entering Leg	0	0	0	0	76	64	140		0	0	0	0	77	71	148		0	0	0	0	4	1	5		0	0	0	0	55	64	119		412
Exiting Leg	140								148								5								119							412	
Total	280								296								10								238							824	

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Cars and Heavy Vehicles (Combined)

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	4	156	12	0	172	0	0	3	38	0	41	215
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	5	156	15	0	176	0	0	2	45	0	47	225
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	152	14	0	168	0	0	1	27	0	28	196
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	15	628	54	0	697	0	0	7	149	0	156	857
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	1	4	155	15	0	175	0	0	0	53	0	53	231
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	136	20	0	159	0	0	1	36	0	37	196
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	125	12	0	141	1	0	2	41	0	44	185
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	2	123	12	0	137	0	0	2	28	0	30	169
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	1	13	539	59	0	612	1	0	5	158	0	164	781
Grand Total	1	0	0	0	0	1	3	1	0	0	0	4	1	43	8	0	0	52	1	211	6158	658	0	7028	3	0	66	1217	0	1286	8371
Approach %	100.0	0.0	0.0	0.0	0.0		75.0	25.0	0.0	0.0	0.0		1.9	82.7	15.4	0.0	0.0		0.0	3.0	87.6	9.4	0.0		0.2	0.0	5.1	94.6	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.6	0.0	2.5	73.6	7.9	0.0	84.0	0.0	0.0	0.8	14.5	0.0	15.4	
Exiting Leg Total	7421						278						1						3						668	8371					
Cars	1	0	0	0	0	1	3	1	0	0	0	4	1	42	8	0	0	51	1	84	5983	634	0	6702	3	0	29	1177	0	1209	7967
% Cars	100.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	100.0	97.7	100.0	0.0	0.0	98.1	100.0	39.8	97.2	96.4	0.0	95.4	100.0	0.0	43.9	96.7	0.0	94.0	95.2
Exiting Leg Total	7205						114						1						3						644	7967					
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	127	175	24	0	326	0	0	37	40	0	77	404
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	1.9	0.0	60.2	2.8	3.6	0.0	4.6	0.0	0.0	56.1	3.3	0.0	6.0	4.8
Exiting Leg Total	216						164						0						0						24	404					

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	6	94	16	0	116	0	0	1	14	0	15	132
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	5	97	17	0	119	0	0	1	16	0	17	139
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	118	13	0	134	0	0	1	16	0	17	151
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	120	19	0	145	0	0	0	20	0	20	165
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	20	429	65	0	514	0	0	3	66	0	69	587
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	25.0	0.0	0.0	0.0	3.9	83.5	12.6	0.0		0.0	0.0	4.3	95.7	0.0			
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.375	0.250	0.000	0.000	0.333	0.000	0.833	0.894	0.855	0.000	0.886	0.000	0.000	0.750	0.825	0.000	0.863	0.889
Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	11	403	61	0	475	0	0	1	59	0	60	539
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	0.0	55.0	93.9	93.8	0.0	92.4	0.0	0.0	33.3	89.4	0.0	87.0	91.8
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	26	4	0	39	0	0	2	7	0	9	48
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	6.1	6.2	0.0	7.6	0.0	0.0	66.7	10.6	0.0	13.0	8.2
Cars Enter Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	11	403	61	0	475	0	0	1	59	0	60	539
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	26	4	0	39	0	0	2	7	0	9	48
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	20	429	65	0	514	0	0	3	66	0	69	587
Cars Exiting Leg	465						12						0						0						62	539					
Heavy Exiting Leg	33						11						0						0						4	48					
Total Exiting Leg	498						23						0						0						66	587					

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
12:30 PM	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	1	0	3	132	19	0	154	1	0	2	36	0	39	195
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4	125	14	0	143	0	0	1	38	0	39	183
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	142	16	0	159	0	0	0	33	0	33	192
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	2	137	12	0	151	0	0	1	47	0	48	201
Total Volume	0	0	0	0	0	0	1	0	0	0	0	1	0	3	1	0	0	4	0	10	536	61	0	607	1	0	4	154	0	159	771
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	75.0	25.0	0.0	0.0	0.0	1.6	88.3	10.0	0.0		0.6	0.0	2.5	96.9	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.375	0.250	0.000	0.000	0.500	0.000	0.625	0.944	0.803	0.000	0.954	0.250	0.000	0.500	0.819	0.000	0.828	0.959	

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Cars and Heavy Vehicles (Combined)

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total							
	from North						from East						from Southeast						from South						from West													
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total								
Cars	0	0	0	0	0	0	1	0	0	0	0	1	0	2	1	0	0	3	0	1	516	58	0	575	1	0	3	152	0	156	735							
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	66.7	100.0	0.0	0.0	75.0	0.0	10.0	96.3	95.1	0.0	94.7	100.0	0.0	75.0	98.7	0.0	98.1	95.3							
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	9	20	3	0	32	0	0	1	2	0	3	36							
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	25.0	0.0	90.0	3.7	4.9	0.0	5.3	0.0	0.0	25.0	1.3	0.0	1.9	4.7							
Cars Enter Leg	0	0	0	0	0	0	1	0	0	0	0	1	0	2	1	0	0	3	0	1	516	58	0	575	1	0	3	152	0	156	735							
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	9	20	3	0	32	0	0	1	2	0	3	36							
Total Entering Leg	0	0	0	0	0	0	1	0	0	0	0	1	0	3	1	0	0	4	0	10	536	61	0	607	1	0	4	154	0	159	771							
Cars Exiting Leg																															59	735						
Heavy Exiting Leg																																					0	36
Total Exiting Leg																																					62	771

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

3:30 PM	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total							
	from North						from East						from Southeast						from South						from West													
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total								
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	6	178	18	0	202	0	0	2	21	0	23	227							
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	5	172	16	0	193	0	0	2	43	0	45	240							
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	3	158	12	0	173	0	0	4	41	0	45	221							
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	157	14	0	174	0	0	0	26	0	26	200							
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	7	0	17	665	60	0	742	0	0	8	131	0	139	888							
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.7	14.3	0.0	0.0	0.0	0.0	2.3	89.6	8.1	0.0	0.0	0.0	0.0	5.8	94.2	0.0	0.0								
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.583	0.000	0.708	0.934	0.833	0.000	0.918	0.000	0.000	0.500	0.762	0.000	0.772	0.925							
Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	7	0	8	659	60	0	727	0	0	4	128	0	132	866							
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	0.0	47.1	99.1	100.0	0.0	98.0	0.0	0.0	50.0	97.7	0.0	95.0	97.5							
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	0	0	15	0	0	4	3	0	7	22							
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	0.9	0.0	0.0	2.0	0.0	0.0	50.0	2.3	0.0	5.0	2.5							
Cars Enter Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	7	0	8	659	60	0	727	0	0	4	128	0	132	866							
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	0	0	15	0	0	4	3	0	7	22							
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	7	0	17	665	60	0	742	0	0	8	131	0	139	888							
Cars Exiting Leg																															61	866						
Heavy Exiting Leg																																					0	22
Total Exiting Leg																																					61	888

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



Cars

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	1	155	12	0	168	0	0	1	38	0	39	209
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	2	154	15	0	171	0	0	0	44	0	44	217
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152	14	0	166	0	0	0	27	0	27	193
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	5	624	54	0	683	0	0	2	148	0	150	837
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	1	0	155	15	0	171	0	0	0	53	0	53	227
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	19	0	153	0	0	0	36	0	36	189
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	124	12	0	137	1	0	0	41	0	42	179
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	122	12	0	134	0	0	1	28	0	29	165
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	1	1	535	58	0	595	1	0	1	158	0	160	760
Grand Total	1	0	0	0	0	1	3	1	0	0	0	4	1	42	8	0	0	51	1	84	5983	634	0	6702	3	0	29	1177	0	1209	7967
Approach %	100.0	0.0	0.0	0.0	0.0		75.0	25.0	0.0	0.0	0.0		2.0	82.4	15.7	0.0	0.0		0.0	1.3	89.3	9.5	0.0		0.2	0.0	2.4	97.4	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	0.1	0.0	0.0	0.6	0.0	1.1	75.1	8.0	0.0	84.1	0.0	0.0	0.4	14.8	0.0	15.2	
Exiting Leg Total	7205						114						1						3						644		7967				

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	90	15	0	108	0	0	1	11	0	12	121
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	3	91	15	0	109	0	0	0	16	0	16	128
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	107	13	0	122	0	0	0	15	0	15	137
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	115	18	0	136	0	0	0	17	0	17	153
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	11	403	61	0	475	0	0	1	59	0	60	539
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	11	403	61	0	475	0	0	1	59	0	60	539
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	75.0	25.0	0.0	0.0		0.0	2.3	84.8	12.8	0.0		0.0	0.0	1.7	98.3	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.375	0.250	0.000	0.000	0.333	0.000	0.917	0.876	0.847	0.000	0.873	0.000	0.000	0.250	0.868	0.000	0.882	0.881
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	11	403	61	0	475	0	0	1	59	0	60	539
Exiting Leg	465						12						4						0						62		539				
Total	465						12						4						475						122		1078				

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
12:30 PM	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	1	0	1	128	18	0	147	1	0	1	35	0	37	186
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	121	14	0	135	0	0	1	38	0	39	175
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	16	0	152	0	0	0	33	0	33	185
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	131	10	0	141	0	0	1	46	0	47	189
1:15 PM	0	0	0	0	0	0	1	0	0	0	0	1	0	2	1	0	0	3	0	1	516	58	0	575	1	0	3	152	0	156	735
Total Volume	0	0	0	0	0	0	1	0	0	0	0	1	0	2	1	0	0	3	0	1	516	58	0	575	1	0	3	152	0	156	735
% Approach Total	0.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	66.7	33.3	0.0	0.0		0.0	0.2	89.7	10.1	0.0		0.6	0.0	1.9	97.4	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250		0.000	0.500	0.250	0.000	0.000	0.750	0.000	0.250	0.949	0.806	0.000	0.946	0.250	0.000	0.750	0.826	0.000	0.830	0.972
Entering Leg	0	0	0	0	0	0	1	0	0	0	0	1	0	2	1	0	0	3	0	1	516	58	0	575	1	0	3	152	0	156	735
Exiting Leg	671						4						0						1						59		735				
Total	671						5						3						576						215		1470				

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	3	178	18	0	199	0	0	1	19	0	20	221
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	3	168	16	0	187	0	0	1	43	0	44	233
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	3	168	16	0	187	0	0	1	43	0	44	233

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Cars

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	157	12	0	170	0	0	2	41	0	43	216
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	156	14	0	171	0	0	0	25	0	25	196
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	7	0	8	659	60	0	727	0	0	4	128	0	132	866	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.7	14.3	0.0	0.0	0.0	1.1	90.6	8.3	0.0	0.0	0.0	0.0	3.0	97.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.583	0.000	0.667	0.926	0.833	0.000	0.913	0.000	0.000	0.500	0.744	0.000	0.750	0.929
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	7	0	8	659	60	0	727	0	0	4	128	0	132	866	
Exiting Leg						793						12					0						0						61	866	
Total						793						12					7						727						193	1732	

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total	
	from North						from East						from Southeast						from South						from West							
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	0	2	0	0	2	6
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	0	0	2	1	0	3	8	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0	1	3	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	4	0	0	14	0	0	5	1	0	6	20	
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	4	
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	6	0	0	1	0	0	1	7	
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	0	2	0	0	2	6	
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	0	1	0	0	1	4	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	4	1	0	17	0	0	4	0	0	4	21	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	127	175	24	0	326	0	0	37	40	0	77	404	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	39.0	53.7	7.4	0.0	80.7	0.0	0.0	48.1	51.9	0.0	19.1	19.1		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	31.4	43.3	5.9	0.0	80.7	0.0	0.0	9.2	9.9	0.0	19.1	19.1	
Exiting Leg Total	216						164						0						0						24	404						
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	24	3	0	152	0	0	37	0	0	37	189	
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.4	13.7	12.5	0.0	46.6	0.0	0.0	100.0	0.0	0.0	48.1	46.8	
Exiting Leg Total	24						162						0						0						3	189						
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	141	16	0	159	0	0	0	33	0	33	193	
% Single-Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	1.6	80.6	66.7	0.0	48.8	0.0	0.0	0.0	82.5	0.0	42.9	47.8	
Exiting Leg Total	175						2						0						0						16	193						
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	0	15	0	0	0	7	0	7	22	
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	20.8	0.0	4.6	0.0	0.0	0.0	17.5	0.0	9.1	5.4	
Exiting Leg Total	17						0						0						0						5	22						

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total	
	from North						from East						from Southeast						from South						from West							
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	0	0	9	0	0	0	0	0	5	14
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	1	0	8	0	0	0	3	0	3	11	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	2	0	10	0	0	1	0	0	1	11	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	0	0	12	0	0	1	1	0	2	14	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	27	3	0	39	0	0	2	9	0	11	50	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	69.2	7.7	0.0	80.7	0.0	0.0	18.2	81.8	0.0	19.1	19.1	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.614	0.375	0.000	0.813	0.000	0.000	0.500	0.450	0.000	0.550	0.893	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	0	0	10	0	0	2	0	0	2	12	
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	3.7	0.0	0.0	25.6	0.0	0.0	100.0	0.0	0.0	18.2	24.0	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2	28	0	0	0	8	0	8	36	
Single-Unit %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.3	66.7	0.0	71.8	0.0	0.0	0.0	88.9	0.0	72.7	72.0	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	2	
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	2.6	0.0	0.0	0.0	11.1	0.0	9.1	4.0	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	0	0	10	0	0	2	0	0	2	12	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2	0	28	0	0	0	8	0	8	36	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	2	
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	27	3	0	39	0	0	2	9	0	11	50	
Buses	1						11						0						0						0	12						
Single-Unit Trucks	34						0						0						0						0	36						
Articulated Trucks	1						0						0						0						0	2						
Total Exiting Leg	36						11						0						0						0	3	50					

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street					
	from North						from East						from Southeast						from South						from West					
10:15 AM																														

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total	
	from North						from East						from Southeast						from South						from West							
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		Total
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		Total
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	0	0	12	0	0	1	1	0	2	14	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	1	0	9	0	0	0	3	0	3	12	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3	0	0	1	4	0	5	8	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	2	0	14	0	0	1	0	0	1	15	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	26	4	0	38	0	0	3	8	0	11	49	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	68.4	10.5	0.0	0.0	0.0	0.0	27.3	72.7	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.667	0.591	0.500	0.000	0.679	0.000	0.000	0.750	0.500	0.000	0.550	0.817		
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	9	0	0	3	0	0	3	12	
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	3.8	0.0	0.0	23.7	0.0	0.0	100.0	0.0	0.0	27.3	24.5	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	2	0	25	0	0	0	8	0	8	33	
Single-Unit %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.5	50.0	0.0	65.8	0.0	0.0	0.0	100.0	0.0	72.7	67.3	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	0	4	
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	50.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	8.2	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	9	0	0	3	0	0	3	12	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	2	0	25	0	0	0	8	0	8	33	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	0	4	
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	26	4	0	38	0	0	3	8	0	11	49	
Buses						1						11						0						0						0	12	
Single-Unit Trucks						31						0						0						0						0	33	
Articulated Trucks						2						0						0						0						0	4	
Total Exiting Leg						34						11						0						0						4	49	

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total	
	from North						from East						from Southeast						from South						from West							
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		Total
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		Total
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	6	
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	8	0	0	0	0	0	0	8	
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	6	0	0	0	0	0	0	6	
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	0	0	10	0	0	0	0	0	0	10	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	0	0	30	0	0	0	0	0	0	30	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.625	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.750		
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	0	0	15	0	0	0	0	0	0	15	
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	25.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	14	
Single-Unit %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0	0.0	0.0	46.7	0.0	0.0	0.0	0.0	0.0	0.0	46.7	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	3.3	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	0	0	15	0	0	0	0	0	0	15	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	14	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	0	0	30	0	0	0	0	0	0	30	
Buses						5						10						0						0						0	15	
Single-Unit Trucks						14						0						0						0						0	14	
Articulated Trucks						1						0						0						0						0	1	
Total Exiting Leg						20						10						0						0						0	30	

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



Buses

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	2	0	0	2	5
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	2	0	0	2	5
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0	1	3
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	0	0	5	0	0	5	15
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	4
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	1	0	0	1	4
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	2	0	0	2	5
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0	1	3
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	12	0	0	4	0	0	4	16
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	24	3	0	152	0	0	37	0	0	37	189
Approach %	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	82.2	15.8	2.0	0.0		0.0	0.0	100.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.1	12.7	1.6	0.0	80.4	0.0	0.0	19.6	0.0	0.0	19.6	
Exiting Leg Total	24						162						0						0						3						189

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	7	0	0	1	0	0	1	8
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	4	0	0	2	0	0	2	6
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	0	1	0	0	1	6
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	2	0	0	2	6
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5	1	0	20	0	0	6	0	0	6	26
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	70.0	25.0	5.0	0.0		0.0	0.0	100.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.875	0.313	0.250	0.000	0.714	0.000	0.000	0.750	0.000	0.000	0.750	0.813
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5	1	0	20	0	0	6	0	0	6	26
Exiting Leg	5						20						0						0						1						26
Total	5						20						0						20						7						52

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	1	0	0	1	5
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	0	1	0	0	1	4
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	4
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	0	0	11	0	0	3	0	0	3	14
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	90.9	9.1	0.0	0.0		0.0	0.0	100.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.250	0.000	0.000	0.688	0.000	0.000	0.750	0.000	0.000	0.750	0.700
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	0	0	11	0	0	3	0	0	3	14
Exiting Leg	1						13						0						0						0						14
Total	1						13						0						11						3						28

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	0	0	0	0	0	5
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	0	0	0	0	0	4

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Buses

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	0	0	0	4
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	0	0	0	0	0	0	6
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5	0	0	19	0	0	0	0	0	0	19
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.7	26.3	0.0	0.0	0.792	0.0	0.0	0.0	0.0	0.0	0.0	0.792	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.700	0.625	0.000	0.000	0.792	0.000	0.000	0.000	0.000	0.000	0.000	0.792	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5	0	0	19	0	0	0	0	0	0	19
Exiting Leg						5						14						0						0						0	19
Total						5						14						0						19						0	38

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Single-Unit Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	3	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	4	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	4	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	1	0	1	6	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	4	0	4	17	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	2	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	4	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	2	0	2	7	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	4	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	2	0	14	0	0	0	3	0	3	17	
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	6	0	0	0	1	0	1	7	
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3	
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	4	0	4	9	
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	3	0	3	7	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	2	0	18	0	0	0	8	0	8	26	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	0	8	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	1	0	1	12	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	0	0	3	0	3	8	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	4	0	4	5	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	3	0	25	0	0	0	8	0	8	33	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	0	0	0	0	0	8	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	0	0	0	1	0	1	6	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	6	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	2	0	2	6	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	4	0	23	0	0	0	3	0	3	26	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	4	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	4	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	4	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	4	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2	0	16	0	0	0	0	0	0	16	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	4	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	3	1	0	5	0	0	0	1	0	1	7	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	1	0	1	7	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	14	1	0	16	0	0	0	2	0	2	19	
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	3	
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	4	
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3	
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1	0	12	0	0	0	0	0	0	12	
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	5	
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	2	0	2	10	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	2	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	2	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	0	3	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6	0	0	0	2	0	2	8	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Single-Unit Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	5
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	2
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	4
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	141	16	0	159	0	0	0	33	0	33	193
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	1.3	88.7	10.1	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0			
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	73.1	8.3	0.0	82.4	0.0	0.0	0.0	17.1	0.0	17.1			
Exiting Leg Total	175						2						0						0						16						193

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	4	0	4	9
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	3	0	3	7
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	0	8
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	1	0	1	12
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2	0	28	0	0	0	8	0	8	36
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.9	7.1	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0			
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.591	0.250	0.000	0.636	0.000	0.000	0.000	0.500	0.000	0.500	0.750	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2	0	28	0	0	0	8	0	8	36
Exiting Leg	34						0						0						0						2						36
Total	34						0						0						28						10						72

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	0	8
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	1	0	1	12
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	0	0	3	0	3	8
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	4	0	4	5
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	3	0	25	0	0	0	8	0	8	33
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.0	12.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0			
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.375	0.000	0.568	0.000	0.000	0.000	0.500	0.000	0.500	0.688	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	3	0	25	0	0	0	8	0	8	33
Exiting Leg	30						0						0						0						3						33
Total	30						0						0						25						11						66

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	4
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Single-Unit Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	5
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	14
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.700	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.700	0.000	0.000	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.700	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	14
Exiting Leg																															0
Total	14						0						0						14						0						0

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Articulated Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1		
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1		
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	2		
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1		
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1		
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3		
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1		
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	2		
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1		
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	2		
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1		
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	2		
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	3	0	3	6	6		
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1		
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1		
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1		
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2		
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1		
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	4		
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1		
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Thursday, December 3, 2020**
 Start Time: **7:00 AM**
 End Time: **7:00 PM**
 Class:



Articulated Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total						
	from North						from East						from Southeast						from South						from West												
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total							
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	0	15	0	0	0	7	0	7	0	0	0	7	0	7	22
Approach %	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	66.7	33.3	0.0		0.0	0.0	0.0	100.0	0.0								
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5	22.7	0.0	68.2	0.0	0.0	0.0	31.8	0.0	31.8							
Exiting Leg Total	17						0						0						0						5						22						

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total						
	from North						from East						from Southeast						from South						from West												
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total							
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	2	0	2	2	0	0	2	0	2	3
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	0.0	0.0	100.0	0.0								
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.000	0.500	0.750	0.750	0.750	0.750	0.750	0.750	0.750
Entering Leg	0						0						0						1						2						3						
Exiting Leg	3						0						0						0						0						0						
Total	3						0						0						1						2						6						

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total						
	from North						from East						from Southeast						from South						from West												
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total							
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2	0	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	0	2	0	2	2
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	4	0	0	2	0	2	2	0	0	2	0	2	6
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	50.0	50.0	0.0		0.0	0.0	0.0	100.0	0.0								
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.500	0.000	0.500	0.000	0.000	0.000	0.250	0.000	0.250	0.750	0.750	0.750	0.750	0.750	0.750	0.750
Entering Leg	0						0						0						2						2						6						
Exiting Leg	4						0						0						0						0						0						
Total	4						0						0						4						2						12						

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total						
	from North						from East						from Southeast						from South						from West												
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total							
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Articulated Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.250		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
Exiting Leg						1						0					0						0						0	1	
Total						1						0					0						1						0	2	

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Bicycles (on Roadway and Crosswalks)

	Highland Avenue										Grove Street						Parking Lot						Highland Avenue						Grove Street						Total						
	from North										from East						from Southeast						from South						from West												
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right		Thru	Left	U-Turn	CW-NB	CW-SB	Total
6:15 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0	8	0	0	0	0	9	0	0	1	1	0	0	0	2	14
6:30 PM	0	0	1	0	0	0	1	2	0	0	0	0	0	2	3	5	0	1	0	0	0	2	1	4	4	0	23	1	0	0	0	28	0	2	1	2	0	0	0	5	44
Total Volume	0	0	1	0	0	0	1	2	0	0	0	0	0	2	3	5	0	1	0	0	0	2	1	4	4	0	23	1	0	0	0	28	0	2	1	2	0	0	0	5	44
% Approach Total	0.0	0.0	50.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	40.0	60.0	0.0	25.0	0.0	0.0	0.0	50.0	25.0	14.3	0.0	82.1	3.6	0.0	0.0	0.0	77.8	0.0	40.0	20.0	40.0	0.0	0.0	0.0	62.5	0.733			
PHF	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.500	0.000	0.000	0.000	0.000	0.500	0.375	0.417	0.000	0.250	0.000	0.000	0.000	0.250	0.250	0.333	0.500	0.000	0.719	0.250	0.000	0.000	0.000	0.778	0.000	0.250	0.250	0.500	0.000	0.000	0.000	0.625	0.733	
Entering Leg	0	0	1	0	0	0	1	2	0	0	0	0	0	2	3	5	0	1	0	0	0	2	1	4	4	0	23	1	0	0	0	28	0	2	1	2	0	0	0	5	44
Exiting Leg							27							6										10								0								1	44
Total							29							11										14								28								6	88

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Pedestrians

	Highland Avenue												Grove Street								Parking Lot								Highland Avenue												Grove Street								Total
	from North						from East						from Southeast				from South				from West				from North				from East																				
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total									
5:15 PM	0	0	0	0	0	15	11	26	0	0	0	0	0	8	10	18	0	0	0	0	0	5	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	6	5	11	65								
5:30 PM	0	0	0	0	0	12	15	27	0	0	0	0	0	9	17	26	0	0	0	0	0	6	12	18	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1	12	83								
5:45 PM	0	0	0	0	0	19	16	35	0	0	0	0	0	6	7	13	0	0	0	0	0	4	7	11	0	0	0	0	0	0	1	1	0	0	0	0	0	11	6	17	77								
Total	0	0	0	0	0	53	59	112	0	0	0	0	0	31	39	70	0	0	0	0	0	25	31	56	0	0	0	0	0	1	1	2	0	0	0	0	0	38	19	57	297								
6:00 PM	0	0	0	0	0	13	11	24	0	0	0	0	0	8	8	16	0	0	0	0	0	5	4	9	0	0	0	0	0	0	1	1	0	0	0	0	0	11	4	15	65								
6:15 PM	0	0	0	0	0	10	13	23	0	0	0	0	0	8	15	23	0	0	0	0	0	5	11	16	0	0	0	0	0	0	1	1	0	0	0	0	0	6	8	14	77								
6:30 PM	0	0	0	0	0	16	11	27	0	0	0	0	0	7	7	14	0	0	0	0	0	7	7	14	0	0	0	0	0	1	0	1	0	0	0	0	0	6	7	13	69								
6:45 PM	0	0	0	0	0	14	11	25	0	0	0	0	0	7	12	19	0	0	0	0	0	5	9	14	0	0	0	0	0	2	0	2	0	0	0	0	0	13	6	19	79								
Total	0	0	0	0	0	53	46	99	0	0	0	0	0	30	42	72	0	0	0	0	0	22	31	53	0	0	0	0	0	3	2	5	0	0	0	0	0	36	25	61	290								
Grand Total	0	0	0	0	0	488	498	986	0	0	0	0	0	336	405	741	0	0	0	0	0	208	293	501	0	0	0	0	0	16	17	33	0	0	0	0	0	323	195	518	2779								
Approach %	0	0	0	0	0	49.5	50.5		0	0	0	0	0	45.3	54.7		0	0	0	0	0	41.5	58.5		0	0	0	0	0	48.5	51.5		0	0	0	0	0	62.4	37.6										
Total %	0	0	0	0	0	17.6	17.9	35.5	0	0	0	0	0	12.1	14.6	26.7	0	0	0	0	0	7.48	10.5	18	0	0	0	0	0	0.58	0.61	1.19	0	0	0	0	0	11.6	7.02	18.6									
Exiting Leg Total	986								741								501								33								518		2779														

AM Peak Hour Analysis from 07:00 AM to 10:00 AM begins at:

	Highland Avenue												Grove Street								Parking Lot								Highland Avenue												Grove Street								Total
	from North						from East						from Southeast				from South				from West				from North				from East																				
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total									
9:30 AM	0	0	0	0	0	9	10	19	0	0	0	0	0	1	6	7	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	10	39								
9:45 AM	0	0	0	0	0	6	12	18	0	0	0	0	0	3	10	13	0	0	0	0	0	3	5	8	0	0	0	0	0	0	0	0	0	0	0	0	0	7	5	12	51								
10:00 AM	0	0	0	0	0	7	8	15	0	0	0	0	0	4	5	9	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5	33								
10:15 AM	0	0	0	0	0	6	6	12	0	0	0	0	0	3	8	11	0	0	0	0	0	5	4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	10	42								
Total Volume	0	0	0	0	0	28	36	64	0	0	0	0	0	11	29	40	0	0	0	0	0	9	15	24	0	0	0	0	0	0	0	0	0	0	0	0	0	21	16	37	165								
% Approach Total	0.0	0.0	0.0	0.0	0.0	43.8	56.3		0.0	0.0	0.0	0.0	0.0	27.5	72.5		0.0	0.0	0.0	0.0	0.0	37.5	62.5		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.8	43.2										
PHF	0.000	0.000	0.000	0.000	0.000	0.778	0.750	0.842	0.000	0.000	0.000	0.000	0.000	0.688	0.725	0.769	0.000	0.000	0.000	0.000	0.000	0.450	0.750	0.667	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.800	0.771	0.809								
Entering Leg	0	0	0	0	0	28	36	64	0	0	0	0	0	11	29	40	0	0	0	0	0	9	15	24	0	0	0	0	0	0	0	0	0	0	0	0	0	21	16	37	165								
Exiting Leg	64								40								24								0								37		165														
Total	128								80								48								0								74		330														

MidDay Peak Hour Analysis from 10:00 AM to 2:00 PM begins at:

	Highland Avenue												Grove Street								Parking Lot								Highland Avenue												Grove Street								Total
	from North						from East						from Southeast				from South				from West				from North				from East																				
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total									
12:15 PM	0	0	0	0	0	15	19	34	0	0	0	0	0	14	12	26	0	0	0	0	0	9	10	19	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3	9	88								
12:30 PM	0	0	0	0	0	20	10	30	0	0	0	0	0	7	6	13	0	0	0	0	0	2	3	5	0	0	0	0	0	0	1	1	0	0	0	0	0	17	6	23	72								
12:45 PM	0	0	0	0	0	13	15	28	0	0	0	0	0	10	11	21	0	0	0	0	0	7	5	12	0	0	0	0	0	1	2	3	0	0	0	0	0	13	8	21	85								
1:00 PM	0	0	0	0	0	17	15	32	0	0	0	0	0	14	12	26	0	0	0	0	0	9	8	17	0	0	0	0	0	1	0	1	0	0	0	0	0	12	4	16	92								
Total Volume	0	0	0	0	0	65	59	124	0	0	0	0	0	45	41	86	0	0	0	0	0	27	26	53	0	0	0	0	0	2	3	5	0	0	0	0	0	48	21	69	337								
% Approach Total	0.0	0.0	0.0	0.0	0.0	52.4	47.6		0.0	0.0	0.0	0.0	0.0	52.3	47.7		0.0	0.0	0.0	0.0	0.0	50.9	49.1		0.0	0.0	0.0	0.0	0.0	40.0	60.0		0.0	0.0	0.0	0.0	0.0	69.6	30.4										
PHF	0.000	0.000	0.000	0.000	0.000	0.813	0.776	0.912	0.000	0.000	0.000	0.000	0.000	0.804	0.854	0.827	0.000	0.000	0.000	0.000	0.000	0.750	0.650	0.697	0.000	0.000	0.000	0.000	0.000	0.500	0.375	0.417	0.000	0.000	0.000	0.000	0.000	0.706	0.656	0.750	0.916								
Entering Leg	0	0	0	0	0	65	59	124	0	0	0	0	0	45	41	86	0	0	0	0	0	27	26	53	0	0	0	0	0	2	3	5	0	0	0	0	0	48	21	69	337								
Exiting Leg	124								86								53								5								69		337														
Total	248								172								106								10								138		674														

PM Peak Hour Analysis from 2:00 PM to 07:00 PM begins at:

	Highland Avenue												Grove Street								Parking Lot								Highland Avenue												Grove Street								Total
	from North						from East						from Southeast				from South				from West				from North				from East																				
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total									
5:30 PM	0	0	0	0	0	12	15	27	0	0	0	0	0	9	17	26	0	0	0	0	0	6	12	18	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1	12	83								
5:45 PM	0	0	0	0	0	19	16	35	0	0	0	0	0	6	7	13	0	0	0	0	0	4	7	11	0	0	0	0	0	0	1	1	0	0	0	0	0	11	6	17	77								

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Thursday, December 3, 2020
 Start Time: 7:00 AM
 End Time: 7:00 PM
 Class:



Pedestrians

	Highland Avenue										Grove Street							Parking Lot							Highland Avenue							Grove Street							Total		
	from North										from East							from Southeast							from South							from West									
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB		CW-SB	Total
6:00 PM	0	0	0	0	0	13	11	24	0	0	0	0	0	8	8	16	0	0	0	0	0	5	4	9	0	0	0	0	0	0	1	1	0	0	0	0	0	11	4	15	65
6:15 PM	0	0	0	0	0	10	13	23	0	0	0	0	0	8	15	23	0	0	0	0	0	5	11	16	0	0	0	0	0	0	1	1	0	0	0	0	0	6	8	14	77
Total Volume	0	0	0	0	0	54	55	109	0	0	0	0	0	31	47	78	0	0	0	0	0	20	34	54	0	0	0	0	0	0	3	3	0	0	0	0	0	39	19	58	302
% Approach Total	0.0	0.0	0.0	0.0	0.0	49.5	50.5		0.0	0.0	0.0	0.0	0.0	39.7	60.3		0.0	0.0	0.0	0.0	0.0	37.0	63.0		0.0	0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	0.0	67.2	32.8		
PHF	0.000	0.000	0.000	0.000	0.000	0.711	0.859	0.779	0.000	0.000	0.000	0.000	0.000	0.861	0.691	0.750	0.000	0.000	0.000	0.000	0.000	0.833	0.708	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.750	0.000	0.000	0.000	0.000	0.000	0.886	0.594	0.853	0.910
Entering Leg	0	0	0	0	0	54	55	109	0	0	0	0	0	31	47	78	0	0	0	0	0	20	34	54	0	0	0	0	0	0	3	3	0	0	0	0	0	39	19	58	302
Exiting Leg								109							78									54								3								58	302
Total								218							156									108								6								116	604

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Cars and Heavy Vehicles (Combined)

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	2	0	5	119	15	0	139	0	0	2	30	0	32	174
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	5	125	21	0	152	0	0	2	33	0	35	188
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	2	3	139	19	0	163	0	0	1	38	0	39	208
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	130	18	0	151	0	0	3	32	0	35	187
Total	0	0	0	0	0	0	0	0	1	0	0	1	1	8	1	0	0	10	3	16	513	73	0	605	0	0	8	133	0	141	757
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	1	6	166	16	0	189	0	0	1	41	0	42	234
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	2	171	15	0	188	0	0	3	34	0	37	227
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	4	134	19	0	157	0	0	3	31	0	34	195
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	146	15	0	164	0	0	2	37	1	40	205
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	15	617	65	0	698	0	0	9	143	1	153	861
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	6	136	29	0	171	0	0	2	39	0	41	216
1:15 PM	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	1	5	160	16	0	182	0	0	3	30	0	33	217
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	4	133	19	0	156	0	0	0	38	0	38	196
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	5	135	22	0	162	1	0	2	30	0	33	200
Total	0	0	0	0	0	0	1	0	0	0	0	1	0	9	3	0	0	12	1	20	564	86	0	671	1	0	7	137	0	145	829
Grand Total	0	0	0	0	0	0	1	0	1	0	0	2	1	27	4	0	0	32	5	51	1694	224	0	1974	1	0	24	413	1	439	2447
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0	0.0	0.0	3.1	84.4	12.5	0.0	0.0	0.0	0.3	2.6	85.8	11.3	0.0	0.2	0.2	0.0	5.5	94.1	0.2			
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.1	0.2	0.0	0.0	1.3	0.2	2.1	69.2	9.2	0.0	80.7	0.0	0.0	1.0	16.9	0.0	17.9		
Exiting Leg Total	2135						76						5						2						229						2447
Cars	0	0	0	0	0	0	1	0	1	0	0	2	1	26	4	0	0	31	5	27	1678	221	0	1931	1	0	14	408	1	424	2388
% Cars	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	100.0	100.0	96.3	100.0	0.0	0.0	96.9	100.0	52.9	99.1	98.7	0.0	97.8	100.0	0.0	58.3	98.8	100.0	96.6	97.6
Exiting Leg Total	2113						42						5						2						226						2388
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	24	16	3	0	43	0	0	10	5	0	15	59
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	3.1	0.0	47.1	0.9	1.3	0.0	2.2	0.0	0.0	41.7	1.2	0.0	3.4	2.4
Exiting Leg Total	22						34						0						0						3						59

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	1	6	166	16	0	189	0	0	1	41	0	42	234
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	2	171	15	0	188	0	0	3	34	0	37	227
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	4	134	19	0	157	0	0	3	31	0	34	195
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	146	15	0	164	0	0	2	37	1	40	205
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	15	617	65	0	698	0	0	9	143	1	153	861
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.1	2.1	88.4	9.3	0.0	0.2	0.0	0.0	0.0	5.9	93.5	0.7		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.625	0.250	0.625	0.902	0.855	0.000	0.923	0.000	0.000	0.750	0.872	0.250	0.911	0.920
Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	6	611	64	0	682	0	0	6	142	1	149	841
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	100.0	40.0	99.0	98.5	0.0	97.7	0.0	0.0	66.7	99.3	100.0	97.4	97.7
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	1	0	16	0	0	3	1	0	4	20
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	1.0	1.5	0.0	2.3	0.0	0.0	33.3	0.7	0.0	2.6	2.3
Cars Enter Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	6	611	64	0	682	0	0	6	142	1	149	841
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	1	0	16	0	0	3	1	0	4	20
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	15	617	65	0	698	0	0	9	143	1	153	861
Cars Exiting Leg	763						12						1						0						65						841
Heavy Exiting Leg	7						12						0						0						1						20
Total Exiting Leg	770						24						1						0						66						861

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Cars

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	2	0	3	118	15	0	136	0	0	1	29	0	30	169
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	4	123	21	0	149	1	4	123	21	0	149	0	0	2	32	0	34	184
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	2	0	137	18	0	157	0	0	0	37	0	37	200	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	129	18	0	149	0	0	1	32	0	33	183	
Total	0	0	0	0	0	0	0	0	1	0	0	1	1	8	1	0	10	3	9	507	72	0	591	0	0	4	130	0	134	736	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	1	3	165	16	0	185	0	0	1	41	0	42	230	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	1	167	15	0	183	0	0	2	33	0	35	220	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	1	134	19	0	154	0	0	2	31	0	33	191	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	145	14	0	160	0	0	1	37	1	39	200	
Total	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	6	611	64	0	682	0	0	6	142	1	149	841	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	5	135	28	0	168	0	0	1	39	0	40	211	
1:15 PM	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	1	1	1	159	16	0	177	0	0	1	30	0	31	210	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	2	132	19	0	153	0	0	0	38	0	38	193	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	4	134	22	0	160	1	0	2	29	0	32	197	
Total	0	0	0	0	0	0	1	0	0	0	0	1	0	8	3	0	11	1	12	560	85	0	658	1	0	4	136	0	141	811	
Grand Total	0	0	0	0	0	0	1	0	1	0	0	2	1	26	4	0	31	5	27	1678	221	0	1931	1	0	14	408	1	424	2388	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0	0.0	0.0	3.2	83.9	12.9	0.0	0.0	0.3	1.4	86.9	11.4	0.0	0.2	0.0	0.0	0.2	0.0	3.3	96.2	0.2		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.1	0.2	0.0	0.0	1.3	0.2	1.1	70.3	9.3	0.0	80.9	0.0	0.0	0.6	17.1	0.0	17.8		
Exiting Leg Total	2113						42						5						2						226						2388

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:00 PM	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	1	3	165	16	0	185	0	0	1	41	0	42	230	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	1	167	15	0	183	0	0	2	33	0	35	220	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	1	134	19	0	154	0	0	2	31	0	33	191	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	145	14	0	160	0	0	1	37	1	39	200	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	6	611	64	0	682	0	0	6	142	1	149	841	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.1	0.9	89.6	9.4	0.0	0.2	0.0	0.0	0.0	0.0	4.0	95.3	0.7		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.625	0.250	0.500	0.915	0.842	0.000	0.922	0.000	0.000	0.750	0.866	0.250	0.887	0.914	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	1	6	611	64	0	682	0	0	6	142	1	149	841	
Exiting Leg	763						12						11						682						214						1682
Total	763						12						11						682						214						1682

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	0	1	1	0	2	5	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	1	0	1	4	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	6	0	0	1	1	0	2	8	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	2	0	0	2	4	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	1	0	14	0	0	4	3	0	7	21	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	0	0	0	0	0	4	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	0	0	1	1	0	2	7	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	1	0	0	1	4	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	4	0	0	1	0	0	1	5	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	1	0	16	0	0	3	1	0	4	20	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	1	0	3	0	0	1	0	0	1	5	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	0	2	0	0	2	7	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	0	0	0	0	0	3	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	1	0	1	3	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	8	4	1	0	13	0	0	3	1	0	4	18	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	24	16	3	0	43	0	0	10	5	0	15	59	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	55.8	37.2	7.0	0.0	0.0	0.0	66.7	33.3	0.0				
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0	40.7	27.1	5.1	0.0	72.9	0.0	0.0	16.9	8.5	0.0	25.4		
Exiting Leg Total	22						34						0						0						3						59
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	23	0	0	9	0	0	9	32	
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8	0.0	0.0	0.0	53.5	0.0	0.0	90.0	0.0	0.0	60.0	54.2	
Exiting Leg Total	0						32						0						0						0						32
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	16	3	0	20	0	0	1	5	0	6	27	
% Single-Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	4.2	100.0	100.0	0.0	46.5	0.0	0.0	10.0	100.0	0.0	40.0	45.8	
Exiting Leg Total	22						2						0						0						3						27
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0						0						0						0						0						0

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:30 AM	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	6	0	0	0	1	1	0	2	8
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	2	0	0	2	4	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	0	0	0	0	0	4	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	0	0	1	1	0	2	7	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	1	0	17	0	0	4	2	0	6	23	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.1	47.1	5.9	0.0	0.0	0.0	66.7	33.3	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.667	0.500	0.250	0.000	0.708	0.000	0.000	0.500	0.500	0.000	0.750	0.719	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	4	0	0	4	12	
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	47.1	0.0	0.0	100.0	0.0	0.0	66.7	52.2	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	2	0	2	11	
Single-Unit %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	52.9	0.0	0.0	0.0	100.0	0.0	33.3	47.8	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	4	0	0	4	12	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	2	0	2	11	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	1	0	17	0	0	4	2	0	6	23	
Buses	0						12						0						0						0						12
Single-Unit Trucks	10						0						0						0						1						11
Articulated Trucks	0						0						0						0						0						0
Total Exiting Leg	10						12						0						0						1						23

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						
from North						from East						from Southeast						from South						from West						
Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	Total

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Buses

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	1	0	0	1	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	1	0	0	1	4
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	2	3
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7	0	0	4	0	0	4	11
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	3
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	1	2
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	1	0	0	1	4
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	1	0	0	1	3
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9	0	0	3	0	0	3	12
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	2	0	0	2	5
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7	0	0	2	0	0	2	9
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	23	0	0	9	0	0	9	32
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.9	0.0	0.0	0.0	0.0	71.9	0.0	0.0	28.1	0.0	0.0	28.1	0.0
Exiting Leg Total	0						32						0						0						0						32

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:30 PM	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	1	0	0	1	4
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	1	0	0	1	3
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	2	0	0	2	5
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9	0	0	4	0	0	4	13
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.500	0.000	0.000	0.500	0.650
Entering Leg	0						0						0						9						0						4
Exiting Leg	0						13						0						0						0						13
Total	0						13						0						9						4						26

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Single-Unit Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	2	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	3	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	1	0	1	4	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	7	0	0	0	3	0	3	10	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	5	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	2	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	7	0	0	0	1	0	1	8	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	2	0	0	1	0	0	1	4	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	2	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	2	
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	4	1	0	6	0	0	1	1	0	2	9	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	16	3	0	20	0	0	1	5	0	6	27	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	5.0	80.0	15.0	0.0	0.0	0.0	16.7	83.3	0.0				
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	3.7	0.0	3.7	59.3	11.1	0.0	74.1	0.0	0.0	3.7	18.5	0.0	22.2		
Exiting Leg Total	22						2						0						0						3						27

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:30 AM	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total
	from North						from East						from Southeast						from South						from West						
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	1	0	1	4	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	5	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	2	0	2	11	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.9	11.1	0.0	0.0	0.0	0.0	100.0	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.563	0.000	0.000	0.000	0.500	0.000	0.500	0.550	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	2	0	2	11	
Exiting Leg	10						0						0						0						1						11
Total	10						0						0						9						3						22

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Articulated Trucks

	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total	
	from North						from East						from Southeast						from South						from West							
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total	0						0						0						0						0						0	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Highland Avenue						Grove Street						Parking Lot						Highland Avenue						Grove Street						Total		
	from North						from East						from Southeast						from South						from West								
	Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total			
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0						0						0						0						0						0		
Exiting Leg	0						0						0						0						0						0		
Total	0						0						0						0						0						0		

PDI File #: **207718 E**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street SE: Parking Lot**
 City, State: **Somerville, MA**
 Client: **Design Consultants/ S. Siragusa**
 Site Code: **2019-048**
 Count Date: **Saturday, December 5, 2020**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Bicycles (on Roadway and Crosswalks)

	Highland Avenue								Grove Street								Parking Lot								Highland Avenue								Grove Street								Total
	from North								from East								from Southeast								from South								from West								
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0	
Exiting Leg Total	7								1								0								0								2								10

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue								Grove Street								Parking Lot								Highland Avenue								Grove Street								Total	
	from North								from East								from Southeast								from South								from West									
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.438			
Entering Leg	0								0								0								5								0								7	
Exiting Leg	6								0								0								0								0								7	
Total	6								0								0								5								3								14	

PDI File #: 207718 E
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street SE: Parking Lot
 City, State: Somerville, MA
 Client: Design Consultants/ S. Siragusa
 Site Code: 2019-048
 Count Date: Saturday, December 5, 2020
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Pedestrians

	Highland Avenue										Grove Street						Parking Lot						Highland Avenue						Grove Street						Total						
	from North										from East						from Southeast						from South						from West												
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right		Thru	Left	U-Turn	CW-NB	CW-SB	Total
11:00 AM	0	0	0	0	0	8	4	12	0	0	0	0	0	5	12	17	0	0	0	0	0	3	9	12	0	0	0	0	0	0	1	1	0	0	0	0	0	5	3	8	50
11:15 AM	0	0	0	0	0	6	7	13	0	0	0	0	0	5	9	14	0	0	0	0	0	3	6	9	0	0	0	0	0	0	0	0	0	0	0	0	7	1	8	44	
11:30 AM	0	0	0	0	0	7	5	12	0	0	0	0	0	8	6	14	0	0	0	0	0	6	5	11	0	0	0	0	0	0	0	0	0	0	0	3	5	8	45		
11:45 AM	0	0	0	0	0	6	7	13	0	0	0	0	0	6	8	14	0	0	0	0	0	4	5	9	0	0	0	0	0	0	0	0	0	0	2	2	4	40			
Total	0	0	0	0	0	27	23	50	0	0	0	0	0	24	35	59	0	0	0	0	0	16	25	41	0	0	0	0	0	0	1	1	0	0	0	0	17	11	28	179	
12:00 PM	0	0	0	0	0	9	10	19	0	0	0	0	0	7	9	16	0	0	0	0	0	6	6	6	0	0	0	0	0	0	0	0	0	0	2	0	2	43			
12:15 PM	0	0	0	0	0	16	18	34	0	0	0	0	0	12	11	23	0	0	0	0	0	5	7	12	0	0	0	0	0	0	0	0	0	0	5	1	6	75			
12:30 PM	0	0	0	0	0	7	10	17	0	0	0	0	0	8	7	15	0	0	0	0	0	7	6	13	0	0	0	0	0	0	0	0	0	0	4	4	8	53			
12:45 PM	0	0	0	0	0	10	12	22	0	0	0	0	0	8	9	17	0	0	0	0	0	2	3	5	0	0	0	0	0	0	1	1	0	0	0	5	2	7	52		
Total	0	0	0	0	0	42	50	92	0	0	0	0	0	35	36	71	0	0	0	0	0	14	22	36	0	0	0	0	0	0	1	1	0	0	0	16	7	23	223		
1:00 PM	0	0	0	0	0	13	10	23	0	0	0	0	0	6	3	9	0	0	0	0	0	4	3	7	0	0	0	0	0	0	0	0	0	8	1	9	48				
1:15 PM	0	0	0	0	0	9	3	12	0	0	0	0	0	4	1	5	0	0	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0	5	3	8	29				
1:30 PM	0	0	0	0	0	9	6	15	0	0	0	0	0	6	5	11	0	0	0	0	0	5	1	6	0	0	0	0	0	0	0	0	6	4	10	42					
1:45 PM	0	0	0	0	0	14	5	19	0	0	0	0	0	13	6	19	0	0	0	0	0	9	1	10	0	0	0	0	0	0	0	0	3	2	5	53					
Total	0	0	0	0	0	45	24	69	0	0	0	0	0	29	15	44	0	0	0	0	0	19	8	27	0	0	0	0	0	0	0	0	22	10	32	172					
Grand Total	0	0	0	0	0	114	97	211	0	0	0	0	0	88	86	174	0	0	0	0	0	49	55	104	0	0	0	0	0	0	2	2	0	0	0	55	28	83	574		
Approach %	0	0	0	0	0	54	46		0	0	0	0	0	50.6	49.4		0	0	0	0	0	47.1	52.9		0	0	0	0	0	100		0	0	0	66.3	33.7					
Total %	0	0	0	0	0	19.9	16.9	36.8	0	0	0	0	0	15.3	15	30.3	0	0	0	0	0	8.54	9.58	18.1	0	0	0	0	0	0	0.35	0.35	0	0	0	9.58	4.88	14.5			
Exiting Leg Total	211								174								104								2								83								574

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	Highland Avenue										Grove Street						Parking Lot						Highland Avenue						Grove Street						Total						
	from North										from East						from Southeast						from South						from West												
	Right	Thru	Bear Left	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right		Thru	Left	U-Turn	CW-NB	CW-SB	Total
12:15 PM	0	0	0	0	0	16	18	34	0	0	0	0	0	12	11	23	0	0	0	0	0	5	7	12	0	0	0	0	0	0	0	0	0	0	5	1	6	75			
12:30 PM	0	0	0	0	0	7	10	17	0	0	0	0	0	8	7	15	0	0	0	0	0	7	6	13	0	0	0	0	0	0	0	0	0	4	4	8	53				
12:45 PM	0	0	0	0	0	10	12	22	0	0	0	0	0	8	9	17	0	0	0	0	0	2	3	5	0	0	0	0	0	1	1	0	0	0	5	2	7	52			
1:00 PM	0	0	0	0	0	13	10	23	0	0	0	0	0	6	3	9	0	0	0	0	0	4	3	7	0	0	0	0	0	0	0	0	8	1	9	48					
Total Volume	0	0	0	0	0	46	50	96	0	0	0	0	0	34	30	64	0	0	0	0	0	18	19	37	0	0	0	0	0	1	1	0	0	0	22	8	30	228			
% Approach Total	0.0	0.0	0.0	0.0	0.0	47.9	52.1		0.0	0.0	0.0	0.0	0.0	53.1	46.9		0.0	0.0	0.0	0.0	0.0	48.6	51.4		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	73.3	26.7					
PHF	0.000	0.000	0.000	0.000	0.000	0.719	0.694	0.706	0.000	0.000	0.000	0.000	0.000	0.708	0.682	0.696	0.000	0.000	0.000	0.000	0.000	0.643	0.679	0.712	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.688	0.500	0.833	0.760			
Entering Leg	0	0	0	0	0	46	50	96	0	0	0	0	0	34	30	64	0	0	0	0	0	18	19	37	0	0	0	0	0	1	1	0	0	0	22	8	30	228			
Exiting Leg	96								64								37								1								30								228
Total	192								128								74								2								60								456

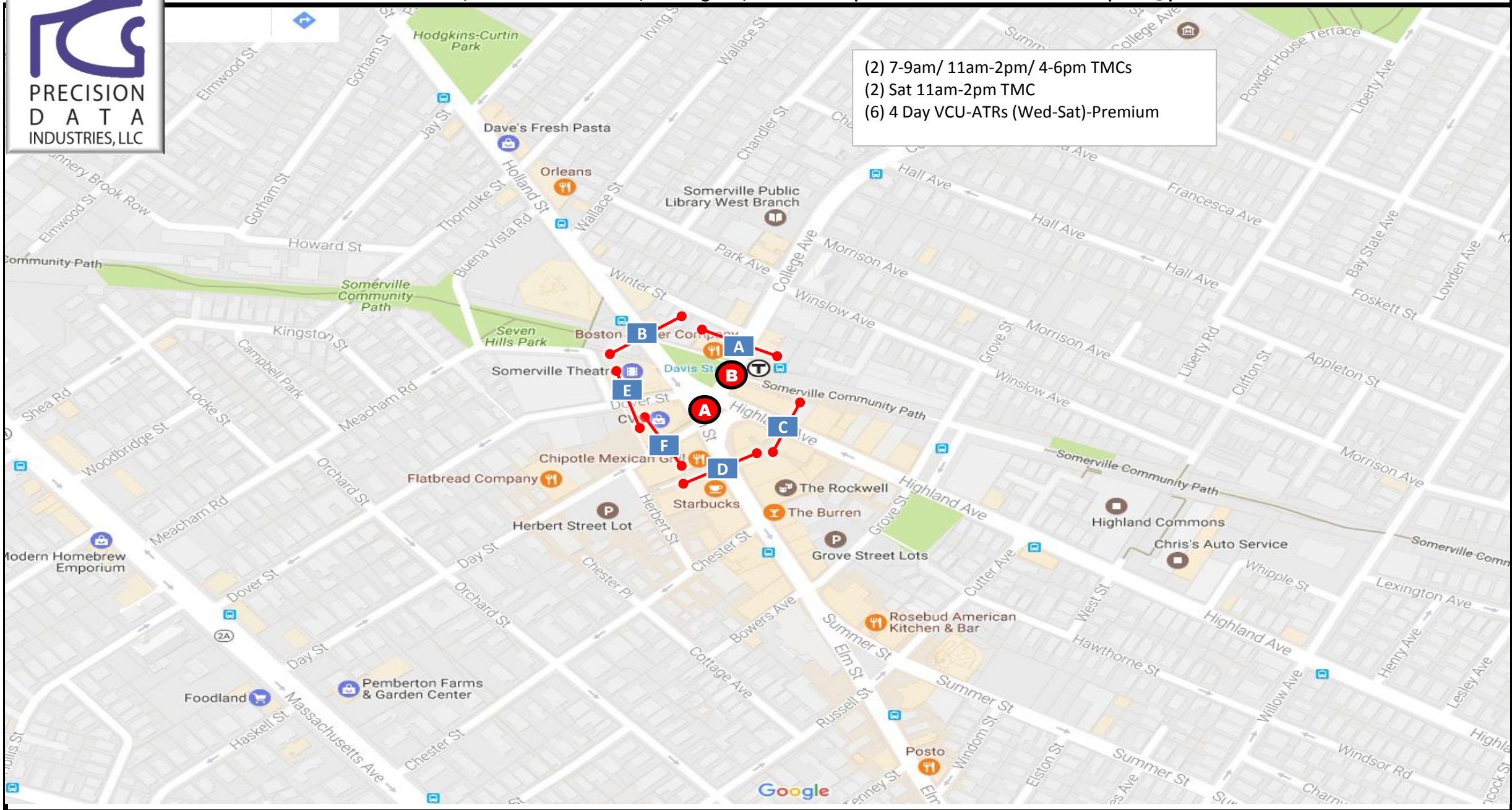
APPENDIX A.2 – 2017 TRAFFIC DATA



Location Map: 175536 Somerville, MA (Davis Square)

Precision Data Industries, LLC 46 Morton Street, Framingham, MA 01702 ph: 508-875-0100 email: datarequests@pdillc.com

(2) 7-9am/ 11am-2pm/ 4-6pm TMCs
(2) Sat 11am-2pm TMC
(6) 4 Day VCU-ATRs (Wed-Sat)-Premium



Client: Toole Design	Engineer: William Huang	Site Code: 6036.05	Date: Wed 3/29 thru Sat 4/1/2017	PDI Job # 175536	City, State: Somerville, MA (Davis Square)
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PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

College Avenue
just east of Community Path
City, State: Somerville, MA
Client: Toole Design/ W. Huang

175536 A Volume
Site Code: 6036.05

Start Time	03/29/17		03/30/17		03/31/17		04/01/17		04/02/17		04/03/17		04/04/17		Week Average	
	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB
12:00 AM	33	47	43	53	100	98	134	144	*	*	*	*	*	*	78	86
01:00	24	39	30	41	59	68	113	136	*	*	*	*	*	*	56	71
02:00	24	19	17	16	26	30	69	78	*	*	*	*	*	*	34	36
03:00	16	9	18	11	23	22	23	29	*	*	*	*	*	*	20	18
04:00	30	6	32	4	37	9	34	7	*	*	*	*	*	*	33	6
05:00	131	26	140	31	130	34	53	22	*	*	*	*	*	*	114	28
06:00	323	104	337	93	370	91	87	45	*	*	*	*	*	*	279	83
07:00	489	215	505	209	495	221	146	81	*	*	*	*	*	*	409	182
08:00	445	271	453	249	417	240	220	107	*	*	*	*	*	*	384	217
09:00	383	175	375	189	354	191	296	192	*	*	*	*	*	*	352	187
10:00	335	180	332	194	338	188	283	213	*	*	*	*	*	*	322	194
11:00	277	199	310	205	297	217	310	241	*	*	*	*	*	*	298	216
12:00 PM	307	253	300	254	309	270	291	247	*	*	*	*	*	*	302	256
01:00	302	226	276	250	289	269	283	277	*	*	*	*	*	*	288	256
02:00	278	266	286	255	295	277	315	263	*	*	*	*	*	*	294	265
03:00	319	332	295	367	295	377	281	268	*	*	*	*	*	*	298	336
04:00	302	416	324	420	321	390	286	253	*	*	*	*	*	*	308	370
05:00	330	437	319	459	323	438	293	296	*	*	*	*	*	*	316	408
06:00	315	368	301	403	322	327	312	275	*	*	*	*	*	*	312	343
07:00	275	269	291	329	281	281	266	234	*	*	*	*	*	*	278	278
08:00	248	257	280	301	247	219	266	220	*	*	*	*	*	*	260	249
09:00	204	253	242	236	205	223	210	203	*	*	*	*	*	*	215	229
10:00	144	186	193	204	194	223	225	233	*	*	*	*	*	*	189	212
11:00	100	144	144	154	186	200	188	192	*	*	*	*	*	*	154	172
Total	5634	4697	5843	4927	5913	4903	4984	4256	0	0	0	0	0	0	5593	4698
Day	10331		10770		10816		9240		0		0		0		10291	
AM Peak	07:00	08:00	07:00	08:00	07:00	08:00	11:00	11:00	-	-	-	-	-	-	07:00	08:00
Vol.	489	271	505	249	495	240	310	241	-	-	-	-	-	-	409	217
PM Peak	17:00	17:00	16:00	17:00	17:00	17:00	14:00	17:00	-	-	-	-	-	-	17:00	17:00
Vol.	330	437	324	459	323	438	315	296	-	-	-	-	-	-	316	408

Comb. Total	10331	10770	10816	9240	0	0	0	10291
ADT	ADT 10,289	AADT 10,289						

College Avenue
 just east of Community Path
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



PRECISION
 D A T A
 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

175536 A Volume
 Site Code: 6036.05

Start Time	WB		EB		Combin ed		03/29/17 Wed
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	9	66	13	77	22	143	
12:15	5	82	13	58	18	140	
12:30	9	76	13	54	22	130	
12:45	10	33 83	307	8	47 64	253	18 80 147 560
01:00	9	75	9	72	18	147	
01:15	4	67	14	52	18	119	
01:30	4	76	6	50	10	126	
01:45	7	24 84	302	10	39 52	226	17 63 136 528
02:00	2	55	1	69	3	124	
02:15	10	63	4	72	14	135	
02:30	7	75	10	64	17	139	
02:45	5	24 85	278	4	19 61	266	9 43 146 544
03:00	3	77	2	87	5	164	
03:15	5	80	2	85	7	165	
03:30	5	80	2	71	7	151	
03:45	3	16 82	319	3	9 89	332	6 25 171 651
04:00	4	80	0	88	4	168	
04:15	4	67	1	102	5	169	
04:30	12	73	4	120	16	193	
04:45	10	30 82	302	1	6 106	416	11 36 188 718
05:00	15	86	4	91	19	177	
05:15	19	76	5	112	24	188	
05:30	51	83	10	125	61	208	
05:45	46	131 85	330	7	26 109	437	53 157 194 767
06:00	48	80	15	89	63	169	
06:15	81	69	22	88	103	157	
06:30	102	83	31	87	133	170	
06:45	92	323 83	315	36	104 104	368	128 427 187 683
07:00	120	81	50	66	170	147	
07:15	118	78	46	75	164	153	
07:30	121	58	62	64	183	122	
07:45	130	489 58	275	57	215 64	269	187 704 122 544
08:00	104	66	66	61	170	127	
08:15	125	62	88	68	213	130	
08:30	109	68	59	59	168	127	
08:45	107	445 52	248	58	271 69	257	165 716 121 505
09:00	116	47	51	76	167	123	
09:15	96	57	41	71	137	128	
09:30	80	54	41	54	121	108	
09:45	91	383 46	204	42	175 52	253	133 558 98 457
10:00	88	39	43	47	131	86	
10:15	85	37	45	49	130	86	
10:30	82	35	49	42	131	77	
10:45	80	335 33	144	43	180 48	186	123 515 81 330
11:00	68	29	44	51	112	80	
11:15	85	26	68	35	153	61	
11:30	51	23	35	27	86	50	
11:45	73	277 22	100	52	199 31	144	125 476 53 244
Total	2510	3124	1290	3407	3800	6531	
Percent	66.1%	47.8%	33.9%	52.2%			
Day Total		5634		4697		10331	
Peak	07:00	- 05:00	- 07:30	- 05:00	- 07:30	- 05:00	- - -
Vol.	489	- 330	- 273	- 437	- 753	- 767	- - -
P.H.F.	0.940	0.959	0.776	0.874	0.884	0.922	

College Avenue
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PRECISION
DATA
INDUSTRIES, LLC

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175536 A Volume
Site Code: 6036.05

Start Time	WB		EB		Combin ed		03/30/17 Thu
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	14	75	21	58	35	133	
12:15	11	75	12	58	23	133	
12:30	11	74	7	70	18	144	
12:45	7	43 76	300 13	53 68	254 20	96 144	554
01:00	9	71	11	64	20	135	
01:15	11	66	14	56	25	122	
01:30	6	73	6	69	12	142	
01:45	4	30 66	276 10	41 61	250 14	71 127	526
02:00	3	83	6	52	9	135	
02:15	5	54	2	77	7	131	
02:30	7	68	2	60	9	128	
02:45	2	17 81	286 6	16 66	255 8	33 147	541
03:00	6	65	5	93	11	158	
03:15	0	69	2	82	2	151	
03:30	5	78	2	93	7	171	
03:45	7	18 83	295 2	11 99	367 9	29 182	662
04:00	3	75	1	89	4	164	
04:15	4	74	1	118	5	192	
04:30	11	91	2	114	13	205	
04:45	14	32 84	324 0	4 99	420 14	36 183	744
05:00	12	82	4	112	16	194	
05:15	26	85	8	113	34	198	
05:30	48	83	11	136	59	219	
05:45	54	140 69	319 8	31 98	459 62	171 167	778
06:00	52	72	17	113	69	185	
06:15	78	77	13	102	91	179	
06:30	100	76	27	89	127	165	
06:45	107	337 76	301 36	93 99	403 143	430 175	704
07:00	116	71	40	92	156	163	
07:15	133	88	50	72	183	160	
07:30	127	70	62	89	189	159	
07:45	129	505 62	291 57	209 76	329 186	714 138	620
08:00	119	77	75	76	194	153	
08:15	104	70	74	74	178	144	
08:30	111	68	53	70	164	138	
08:45	119	453 65	280 47	249 81	301 166	702 146	581
09:00	100	59	53	61	153	120	
09:15	91	66	51	62	142	128	
09:30	85	56	43	43	128	99	
09:45	99	375 61	242 42	189 70	236 141	564 131	478
10:00	93	44	45	52	138	96	
10:15	75	53	50	57	125	110	
10:30	81	56	58	49	139	105	
10:45	83	332 40	193 41	194 46	204 124	526 86	397
11:00	82	38	41	50	123	88	
11:15	76	47	60	48	136	95	
11:30	79	34	49	28	128	62	
11:45	73	310 25	144 55	205 28	154 128	515 53	298
Total	2592	3251	1295	3632	3887	6883	
Percent	66.7%	47.2%	33.3%	52.8%			
Day Total		5843		4927		10770	
Peak	07:15	-	04:30	-	07:15	-	-
Vol.	508	-	342	-	752	-	794
P.H.F.	0.955	-	0.940	-	0.969	-	0.906

College Avenue
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175536 A Volume
Site Code: 6036.05

Start Time	WB		EB		Combin ed		03/31/17 Fri					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	29	79	29	58	58	137						
12:15	26	64	21	78	47	142						
12:30	25	84	29	67	54	151						
12:45	20	100	82	309	19	98	270	198	149	579		
01:00	24	66	27	74	51	140						
01:15	14	72	20	66	34	138						
01:30	12	76	17	57	29	133						
01:45	9	59	75	289	4	68	72	269	13	127	147	558
02:00	12	67	13	62	25	129						
02:15	4	73	7	69	11	142						
02:30	4	85	5	60	9	145						
02:45	6	26	70	295	5	30	86	277	11	56	156	572
03:00	4	76	7	112	11	188						
03:15	6	66	7	75	13	141						
03:30	5	72	4	97	9	169						
03:45	8	23	81	295	4	22	93	377	12	45	174	672
04:00	3	73	3	106	6	179						
04:15	9	87	3	85	12	172						
04:30	13	69	1	93	14	162						
04:45	12	37	92	321	2	9	106	390	14	46	198	711
05:00	17	83	4	103	21	186						
05:15	25	81	4	118	29	199						
05:30	51	80	8	108	59	188						
05:45	37	130	79	323	18	34	109	438	55	164	188	761
06:00	68	89	11	84	79	173						
06:15	75	91	24	77	99	168						
06:30	115	70	28	81	143	151						
06:45	112	370	72	322	28	91	85	327	140	461	157	649
07:00	122	64	41	72	163	136						
07:15	125	76	59	64	184	140						
07:30	119	78	59	73	178	151						
07:45	129	495	63	281	62	221	72	281	191	716	135	562
08:00	95	63	74	55	169	118						
08:15	116	60	51	57	167	117						
08:30	101	52	60	49	161	101						
08:45	105	417	72	247	55	240	58	219	160	657	130	466
09:00	89	47	44	44	133	91						
09:15	92	55	45	54	137	109						
09:30	89	53	47	65	136	118						
09:45	84	354	50	205	55	191	60	223	139	545	110	428
10:00	86	53	44	50	130	103						
10:15	77	51	46	60	123	111						
10:30	81	46	46	48	127	94						
10:45	94	338	44	194	52	188	65	223	146	526	109	417
11:00	79	53	57	56	136	109						
11:15	77	40	50	54	127	94						
11:30	74	33	59	50	133	83						
11:45	67	297	60	186	51	217	40	200	118	514	100	386
Total	2646	3267	1409	3494	4055	6761						
Percent	65.3%	48.3%	34.7%	51.7%								
Day Total		5913		4903		10816						
Peak	07:00	-	05:30	-	07:15	-	05:00	-	07:15	-	04:45	-
Vol.	495	-	339	-	254	-	438	-	722	-	771	-
P.H.F.	0.959		0.931		0.858		0.928		0.945		0.969	

College Avenue
just east of Community Path
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
DATA
INDUSTRIES, LLC

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175536 A Volume
Site Code: 6036.05

Start Time	WB		EB		Combin ed		04/01/17 Sat						
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.							
12:00	33	74	29	66	62	140							
12:15	30	76	42	72	72	148							
12:30	36	70	35	45	71	115							
12:45	35	134 71	291 38	144 64	247 73	278 135	538						
01:00	45	78	41	77	86	155							
01:15	23	58	40	64	63	122							
01:30	27	71	34	68	61	139							
01:45	18	113 76	283 21	136 68	277 39	249 144	560						
02:00	28	78	29	61	57	139							
02:15	16	74	29	64	45	138							
02:30	12	80	12	69	24	149							
02:45	13	69 83	315 8	78 69	263 21	147 152	578						
03:00	7	82	7	62	14	144							
03:15	5	71	7	72	12	143							
03:30	4	65	2	64	6	129							
03:45	7	23 63	281 13	29 29	70 268	20 52	133 549						
04:00	8	65	4	65	12	130							
04:15	8	67	0	70	8	137							
04:30	10	67	3	60	13	127							
04:45	8	34 87	286 0	7 58	253 8	41 145	539						
05:00	7	77	3	66	10	143							
05:15	14	75	5	70	19	145							
05:30	19	75	6	75	25	150							
05:45	13	53 66	293 8	22 85	296 21	75 151	589						
06:00	19	78	4	79	23	157							
06:15	14	84	3	69	17	153							
06:30	26	69	14	62	40	131							
06:45	28	87 81	312 24	45 65	275 52	132 146	587						
07:00	29	78	15	64	44	142							
07:15	34	57	17	49	51	106							
07:30	40	67	25	63	65	130							
07:45	43	146 64	266 24	81 58	234 67	227 122	500						
08:00	42	66	15	73	57	139							
08:15	51	65	28	42	79	107							
08:30	58	55	34	60	92	115							
08:45	69	220 80	266 30	107 45	220 99	327 125	486						
09:00	70	46	41	54	111	100							
09:15	77	65	51	55	128	120							
09:30	73	48	48	51	121	99							
09:45	76	296 51	210 52	192 43	203 128	488 94	413						
10:00	64	49	59	50	123	99							
10:15	68	66	41	62	109	128							
10:30	78	70	58	58	136	128							
10:45	73	283 40	225 55	213 63	233 128	496 103	458						
11:00	85	54	67	67	152	121							
11:15	79	49	57	46	136	95							
11:30	61	39	56	44	117	83							
11:45	85	310 46	188 61	241 35	192 146	551 81	380						
Total	1768	3216	1295	2961	3063	6177							
Percent	57.7%	52.1%	42.3%	47.9%									
Day Total		4984		4256		9240							
Peak	10:30	-	02:15	-	11:00	-	05:30	-	-	-			
Vol.	315	-	319	-	241	-	309	-	552	-	611	-	-
P.H.F.	0.926		0.961		0.899		0.909		0.908		0.973		

College Avenue
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INDUSTRIES, LLC

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175536 A Class
Site Code: 6036.05

WB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	0	0	28	1	3	1	0	33
01:00	0	0	22	0	1	1	0	24
02:00	0	0	21	0	0	3	0	24
03:00	0	0	15	0	0	1	0	16
04:00	0	0	23	2	0	5	0	30
05:00	1	0	108	14	2	6	0	131
06:00	2	0	266	36	12	6	1	323
07:00	20	0	379	59	13	17	1	489
08:00	18	1	378	24	13	11	0	445
09:00	13	0	313	35	8	13	1	383
10:00	3	0	285	32	6	9	0	335
11:00	9	0	228	29	7	3	1	277
12 PM	3	0	262	27	8	7	0	307
13:00	9	0	246	25	7	14	1	302
14:00	8	1	235	21	9	4	0	278
15:00	4	3	283	17	12	0	0	319
16:00	10	0	267	13	11	0	1	302
17:00	17	0	291	9	10	3	0	330
18:00	17	0	276	11	10	1	0	315
19:00	5	1	250	9	9	1	0	275
20:00	1	0	235	6	6	0	0	248
21:00	5	1	183	7	7	1	0	204
22:00	3	0	131	3	6	1	0	144
23:00	1	0	92	1	5	1	0	100
Total	149	7	4817	381	165	109	6	5634
Percent	2.6%	0.1%	85.5%	6.8%	2.9%	1.9%	0.1%	0.0%
AM Peak	07:00	08:00	07:00	07:00	07:00	07:00	06:00	07:00
Vol.	20	1	379	59	13	17	1	489
PM Peak	17:00	15:00	17:00	12:00	15:00	13:00	13:00	17:00
Vol.	17	3	291	27	12	14	1	330

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Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	1	0	36	3	3	0	0	43
01:00	0	0	28	0	1	1	0	30
02:00	0	0	14	2	0	1	0	17
03:00	0	0	15	0	0	3	0	18
04:00	0	0	27	1	0	4	0	32
05:00	2	0	116	11	2	9	0	140
06:00	3	0	264	56	8	6	0	337
07:00	16	0	406	53	12	16	2	505
08:00	26	1	358	36	14	18	0	453
09:00	19	0	304	31	10	10	1	375
10:00	14	0	265	30	6	14	3	332
11:00	6	0	260	20	9	14	1	310
12 PM	7	1	249	29	8	5	1	300
13:00	6	1	228	30	7	4	0	276
14:00	5	1	257	7	8	8	0	286
15:00	7	2	251	21	9	4	1	295
16:00	7	1	290	11	12	3	0	324
17:00	11	0	284	10	12	2	0	319
18:00	8	0	268	12	12	0	1	301
19:00	1	0	272	3	13	2	0	291
20:00	1	1	265	4	8	1	0	280
21:00	6	0	219	7	9	1	0	242
22:00	4	0	176	6	7	0	0	193
23:00	2	0	131	2	7	2	0	144
Total	152	8	4983	385	177	128	10	5843
Percent	2.6%	0.1%	85.3%	6.6%	3.0%	2.2%	0.2%	0.0%
AM Peak	08:00	08:00	07:00	06:00	08:00	08:00	10:00	07:00
Vol.	26	1	406	56	14	18	3	505
PM Peak	17:00	15:00	16:00	13:00	19:00	14:00	12:00	16:00
Vol.	11	2	290	30	13	8	1	324

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175536 A Class
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WB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	2	0	93	1	3	1	0	100
01:00	0	0	58	0	1	0	0	59
02:00	1	0	22	1	0	2	0	26
03:00	1	0	19	0	0	3	0	23
04:00	0	0	33	2	1	1	0	37
05:00	0	0	97	22	2	9	0	130
06:00	1	0	280	68	9	12	0	370
07:00	11	1	414	43	11	12	3	495
08:00	11	0	360	19	14	13	0	417
09:00	9	0	286	29	10	20	0	354
10:00	8	0	281	34	7	8	0	338
11:00	2	0	248	26	8	13	0	297
12 PM	1	0	272	21	8	7	0	309
13:00	3	0	253	16	8	7	2	289
14:00	4	1	248	24	9	8	1	295
15:00	1	0	263	18	10	3	0	295
16:00	4	0	295	11	10	1	0	321
17:00	4	0	293	11	12	3	0	323
18:00	3	0	290	15	13	1	0	322
19:00	0	0	260	9	12	0	0	281
20:00	0	0	233	5	8	1	0	247
21:00	0	0	186	8	8	2	1	205
22:00	1	0	180	4	7	2	0	194
23:00	0	0	174	1	8	3	0	186
Total	67	2	5138	388	179	132	7	5913
Percent	1.1%	0.0%	86.9%	6.6%	3.0%	2.2%	0.1%	0.0%
AM Peak	07:00	07:00	07:00	06:00	08:00	09:00	07:00	07:00
Vol.	11	1	414	68	14	20	3	495
PM Peak	14:00	14:00	16:00	14:00	18:00	14:00	13:00	17:00
Vol.	4	1	295	24	13	8	2	323

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Site Code: 6036.05

WB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	1	0	128	0	3	2	0	134
01:00	0	0	107	3	1	2	0	113
02:00	0	0	67	2	0	0	0	69
03:00	0	0	22	0	0	1	0	23
04:00	0	0	29	2	0	3	0	34
05:00	0	0	42	5	1	5	0	53
06:00	0	0	70	12	2	3	0	87
07:00	0	0	119	19	5	2	1	146
08:00	0	0	198	9	4	9	0	220
09:00	1	0	262	24	5	3	1	296
10:00	1	0	254	18	4	6	0	283
11:00	0	0	289	12	5	4	0	310
12 PM	0	0	275	9	4	3	0	291
13:00	1	0	262	13	6	1	0	283
14:00	1	0	296	6	6	5	1	315
15:00	1	0	260	11	6	3	0	281
16:00	0	0	264	14	8	0	0	286
17:00	2	0	276	7	7	1	0	293
18:00	0	0	294	8	7	2	1	312
19:00	1	0	248	8	9	0	0	266
20:00	0	0	252	7	7	0	0	266
21:00	0	0	192	8	10	0	0	210
22:00	2	0	210	5	8	0	0	225
23:00	0	0	178	3	7	0	0	188
Total	11	0	4594	205	115	55	4	4984
Percent	0.2%	0.0%	92.2%	4.1%	2.3%	1.1%	0.1%	0.0%
AM Peak	00:00		11:00	09:00	07:00	08:00	07:00	11:00
Vol.	1		289	24	5	9	1	310
PM Peak	17:00		14:00	16:00	21:00	14:00	14:00	14:00
Vol.	2		296	14	10	5	1	315

College Avenue
just east of Community Path
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 A Class
Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	0	0	47	0	0	0	0	47
01:00	1	0	35	0	2	1	0	39
02:00	0	0	16	3	0	0	0	19
03:00	0	0	7	2	0	0	0	9
04:00	0	0	4	1	0	1	0	6
05:00	1	0	21	2	1	1	0	26
06:00	0	0	91	4	8	0	1	104
07:00	1	0	185	12	11	6	0	215
08:00	3	0	229	15	15	8	1	271
09:00	2	0	145	12	7	9	0	175
10:00	3	0	149	21	4	3	0	180
11:00	1	0	173	17	4	4	0	199
12 PM	2	0	206	32	8	5	0	253
13:00	2	0	185	29	5	5	0	226
14:00	4	0	224	31	4	3	0	266
15:00	3	1	280	38	7	3	0	332
16:00	12	1	368	25	7	3	0	416
17:00	11	0	389	23	12	1	1	437
18:00	13	0	335	10	9	1	0	368
19:00	4	1	243	12	8	1	0	269
20:00	3	1	238	7	8	0	0	257
21:00	5	0	239	5	3	1	0	253
22:00	2	1	169	8	5	1	0	186
23:00	7	0	130	3	4	0	0	144
Total	80	5	4108	312	132	57	3	4697
Percent	1.7%	0.1%	87.5%	6.6%	2.8%	1.2%	0.1%	0.0%
AM Peak	08:00		08:00	10:00	08:00	09:00	06:00	08:00
Vol.	3		229	21	15	9	1	271
PM Peak	18:00	15:00	17:00	15:00	17:00	12:00	17:00	17:00
Vol.	13	1	389	38	12	5	1	437

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175536 A Class
Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	0	0	49	0	4	0	0	53
01:00	1	0	39	0	0	1	0	41
02:00	0	0	14	1	0	1	0	16
03:00	0	0	9	2	0	0	0	11
04:00	0	0	3	0	0	1	0	4
05:00	0	0	25	2	1	3	0	31
06:00	0	0	74	7	9	3	0	93
07:00	1	0	182	10	12	3	1	209
08:00	2	0	219	9	13	6	0	249
09:00	1	0	159	9	7	9	4	189
10:00	4	0	167	14	3	6	0	194
11:00	5	0	166	18	5	10	1	205
12 PM	4	0	219	19	7	5	0	254
13:00	7	0	201	28	5	9	0	250
14:00	5	0	215	20	3	12	0	255
15:00	10	0	300	40	6	11	0	367
16:00	11	1	356	43	8	1	0	420
17:00	11	3	412	21	10	2	0	459
18:00	7	1	366	18	8	3	0	403
19:00	9	1	289	20	9	1	0	329
20:00	5	0	279	9	8	0	0	301
21:00	4	0	221	5	5	1	0	236
22:00	5	1	183	9	5	1	0	204
23:00	2	0	146	1	4	1	0	154
Total	94	7	4293	305	132	90	6	4927
Percent	1.9%	0.1%	87.1%	6.2%	2.7%	1.8%	0.1%	0.0%
AM Peak	11:00		08:00	11:00	08:00	11:00	09:00	08:00
Vol.	5		219	18	13	10	4	249
PM Peak	16:00	17:00	17:00	16:00	17:00	14:00		17:00
Vol.	11	3	412	43	10	12		459



PRECISION
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College Avenue
just east of Community Path
City, State: Somerville, MA
Client: Toole Design/ W. Huang

175536 A Class
Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	1	2	88	3	4	0	0	98
01:00	1	1	62	2	1	1	0	68
02:00	0	0	28	0	0	2	0	30
03:00	0	0	20	0	0	1	1	22
04:00	1	0	7	0	0	1	0	9
05:00	0	0	29	2	1	2	0	34
06:00	2	0	72	5	9	3	0	91
07:00	2	0	183	14	13	9	0	221
08:00	2	0	204	15	13	6	0	240
09:00	2	0	162	12	5	10	0	191
10:00	1	0	153	22	6	6	0	188
11:00	0	0	179	21	3	14	0	217
12 PM	2	0	223	31	7	7	0	270
13:00	2	0	228	29	5	5	0	269
14:00	4	0	233	28	3	8	1	277
15:00	2	0	326	40	7	2	0	377
16:00	0	0	362	19	7	2	0	390
17:00	5	0	406	10	10	7	0	438
18:00	2	0	299	16	9	1	0	327
19:00	3	1	261	10	6	0	0	281
20:00	1	0	200	9	8	1	0	219
21:00	0	0	216	1	5	1	0	223
22:00	0	0	208	7	5	3	0	223
23:00	1	0	185	7	4	3	0	200
Total	34	4	4334	303	131	95	2	4903
Percent	0.7%	0.1%	88.4%	6.2%	2.7%	1.9%	0.0%	0.0%
AM Peak	06:00	00:00	08:00	10:00	07:00	11:00	03:00	08:00
Vol.	2	2	204	22	13	14	1	240
PM Peak	17:00	19:00	17:00	15:00	17:00	14:00	14:00	17:00
Vol.	5	1	406	40	10	8	1	438



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College Avenue
just east of Community Path
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175536 A Class
Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	0	1	137	6	0	0	0	144
01:00	0	0	130	2	2	2	0	136
02:00	0	0	73	5	0	0	0	78
03:00	0	0	24	4	0	1	0	29
04:00	0	0	6	1	0	0	0	7
05:00	0	0	19	0	1	2	0	22
06:00	0	0	38	3	2	1	1	45
07:00	0	0	73	2	5	1	0	81
08:00	0	0	96	4	4	3	0	107
09:00	1	0	169	14	5	3	0	192
10:00	0	0	200	8	0	5	0	213
11:00	0	0	219	16	2	4	0	241
12 PM	0	0	236	9	2	0	0	247
13:00	1	0	255	17	4	0	0	277
14:00	0	0	242	13	4	4	0	263
15:00	0	0	253	10	3	2	0	268
16:00	1	0	235	13	3	1	0	253
17:00	0	0	277	11	3	4	1	296
18:00	2	0	259	10	3	1	0	275
19:00	0	0	227	3	4	0	0	234
20:00	3	0	207	7	3	0	0	220
21:00	0	0	196	3	4	0	0	203
22:00	20	1	201	7	4	0	0	233
23:00	20	0	164	3	5	0	0	192
Total	48	2	3936	171	63	34	2	4256
Percent	1.1%	0.0%	92.5%	4.0%	1.5%	0.8%	0.0%	0.0%
AM Peak	09:00	00:00	11:00	11:00	07:00	10:00	06:00	11:00
Vol.	1	1	219	16	5	5	1	241
PM Peak	22:00	22:00	17:00	13:00	23:00	14:00	17:00	17:00
Vol.	20	1	277	17	5	4	1	296



PRECISION
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46 Morton Street, Framingham, MA 01702
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Holland Street
north of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang

175536 B Volume
Site Code: 6036.05

Start Time	03/29/17		03/30/17		03/31/17		04/01/17		04/02/17		04/03/17		04/04/17		Week Average	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	38	28	41	29	68	51	122	72	*	*	*	*	*	*	67	45
01:00	21	16	29	20	43	28	87	72	*	*	*	*	*	*	45	34
02:00	13	11	15	14	17	13	49	43	*	*	*	*	*	*	24	20
03:00	6	3	7	10	7	11	18	12	*	*	*	*	*	*	10	9
04:00	10	14	10	15	13	19	8	11	*	*	*	*	*	*	10	15
05:00	26	68	20	71	26	73	14	37	*	*	*	*	*	*	22	62
06:00	84	202	101	222	107	202	47	34	*	*	*	*	*	*	85	165
07:00	277	443	274	462	270	400	69	89	*	*	*	*	*	*	222	348
08:00	316	427	319	413	350	357	119	167	*	*	*	*	*	*	276	341
09:00	262	322	261	341	258	324	198	242	*	*	*	*	*	*	245	307
10:00	231	256	245	289	291	293	232	256	*	*	*	*	*	*	250	274
11:00	235	250	280	252	297	258	282	253	*	*	*	*	*	*	274	253
12:00 PM	254	250	276	292	277	295	308	292	*	*	*	*	*	*	279	282
01:00	276	233	293	236	298	288	267	286	*	*	*	*	*	*	284	261
02:00	292	272	309	252	282	265	275	252	*	*	*	*	*	*	290	260
03:00	329	249	329	308	310	268	240	255	*	*	*	*	*	*	302	270
04:00	356	283	355	287	340	336	238	241	*	*	*	*	*	*	322	287
05:00	407	291	418	336	362	324	238	262	*	*	*	*	*	*	356	303
06:00	366	299	374	311	314	308	280	258	*	*	*	*	*	*	334	294
07:00	278	238	318	274	296	209	292	256	*	*	*	*	*	*	296	244
08:00	244	167	283	189	220	180	228	175	*	*	*	*	*	*	244	178
09:00	199	154	250	178	188	159	215	156	*	*	*	*	*	*	213	162
10:00	177	103	185	134	184	144	179	151	*	*	*	*	*	*	181	133
11:00	87	49	126	79	144	107	142	119	*	*	*	*	*	*	125	88
Total	4784	4628	5118	5014	4962	4912	4147	3991	0	0	0	0	0	0	4756	4635
Day	9412		10132		9874		8138		0		0		0		9391	
AM Peak	08:00	07:00	08:00	07:00	08:00	07:00	11:00	10:00	-	-	-	-	-	-	08:00	07:00
Vol.	316	443	319	462	350	400	282	256	-	-	-	-	-	-	276	348
PM Peak	17:00	18:00	17:00	17:00	17:00	16:00	12:00	12:00	-	-	-	-	-	-	17:00	17:00
Vol.	407	299	418	336	362	336	308	292	-	-	-	-	-	-	356	303

Comb. Total	9412	10132	9874	8138	0	0	0	9391
ADT	ADT 9,389	AADT 9,389						

Holland Street
north of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

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175536 B Volume
Site Code: 6036.05

Start Time	NB		SB		Combin ed		03/29/17 Wed
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	12	65	10	62	22	127	
12:15	9	56	5	62	14	118	
12:30	7	58	7	54	14	112	
12:45	10	38 75	254	6 28	72 250	16 66	147 504
01:00	6	78	3	59	9	137	
01:15	5	70	6	56	11	126	
01:30	6	71	3	51	9	122	
01:45	4	21 57	276	4 16	67 233	8 37	124 509
02:00	5	61	2	67	7	128	
02:15	2	72	3	80	5	152	
02:30	5	71	3	58	8	129	
02:45	1	13 88	292	3 11	67 272	4 24	155 564
03:00	1	77	1	66	2	143	
03:15	1	78	0	66	1	144	
03:30	3	87	1	60	4	147	
03:45	1	6 87	329	1 3	57 249	2 9	144 578
04:00	1	88	4	66	5	154	
04:15	2	81	3	68	5	149	
04:30	3	94	2	75	5	169	
04:45	4	10 93	356	5 14	74 283	9 24	167 639
05:00	4	97	6	73	10	170	
05:15	4	94	11	68	15	162	
05:30	10	107	18	77	28	184	
05:45	8	26 109	407	33 68	73 291	41 94	182 698
06:00	13	108	29	76	42	184	
06:15	19	90	40	80	59	170	
06:30	23	91	54	67	77	158	
06:45	29	84 77	366	79 202	76 299	108 286	153 665
07:00	50	92	110	69	160	161	
07:15	52	65	112	56	164	121	
07:30	83	71	100	65	183	136	
07:45	92	277 50	278	121 443	48 238	213 720	98 516
08:00	82	54	110	46	192	100	
08:15	82	71	111	37	193	108	
08:30	84	60	113	44	197	104	
08:45	68	316 59	244	93 427	40 167	161 743	99 411
09:00	75	54	96	33	171	87	
09:15	61	45	90	42	151	87	
09:30	54	48	64	41	118	89	
09:45	72	262 52	199	72 322	38 154	144 584	90 353
10:00	58	44	66	24	124	68	
10:15	50	51	63	29	113	80	
10:30	66	45	70	32	136	77	
10:45	57	231 37	177	57 256	18 103	114 487	55 280
11:00	60	21	47	21	107	42	
11:15	51	17	62	7	113	24	
11:30	69	23	71	11	140	34	
11:45	55	235 26	87	70 250	10 49	125 485	36 136
Total	1519	3265	2040	2588	3559	5853	
Percent	42.7%	55.8%	57.3%	44.2%			
Day Total		4784		4628		9412	
Peak	07:45	- 05:15	- 07:45	- 05:30	- 07:45	- 05:30	- -
Vol.	340	- 418	- 455	- 306	- 795	- 720	- -
P.H.F.	0.924	0.959	0.940	0.956	0.933	0.978	

Holland Street
north of Davis Square
City, State: Somerville, MA
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175536 B Volume
Site Code: 6036.05

Start Time	NB		SB		Combin ed		03/30/17 Thu
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	14	72	9	71	23	143	
12:15	10	64	10	88	20	152	
12:30	10	63	3	57	13	120	
12:45	7	41 77	276	7	29 76	292	14 70 153 568
01:00	7	69	7	63	14	132	
01:15	9	74	6	58	15	132	
01:30	4	75	5	58	9	133	
01:45	9	29 75	293	2	20 57	236	11 49 132 529
02:00	3	87	4	59	7	146	
02:15	4	71	4	72	8	143	
02:30	2	65	5	59	7	124	
02:45	6	15 86	309	1	14 62	252	7 29 148 561
03:00	2	92	3	64	5	156	
03:15	2	77	2	79	4	156	
03:30	1	70	4	85	5	155	
03:45	2	7 90	329	1	10 80	308	3 17 170 637
04:00	2	77	3	66	5	143	
04:15	3	89	3	67	6	156	
04:30	0	93	5	80	5	173	
04:45	5	10 96	355	4	15 74	287	9 25 170 642
05:00	2	102	11	81	13	183	
05:15	4	97	8	87	12	184	
05:30	3	108	26	87	29	195	
05:45	11	20 111	418	26	71 81	336	37 91 192 754
06:00	10	79	29	77	39	156	
06:15	19	94	41	81	60	175	
06:30	29	101	63	70	92	171	
06:45	43	101 100	374	89	222 83	311	132 323 183 685
07:00	51	68	95	69	146	137	
07:15	51	84	114	72	165	156	
07:30	88	84	139	78	227	162	
07:45	84	274 82	318	114	462 55	274	198 736 137 592
08:00	86	86	102	50	188	136	
08:15	97	62	107	41	204	103	
08:30	72	73	102	44	174	117	
08:45	64	319 62	283	102	413 54	189	166 732 116 472
09:00	77	55	97	56	174	111	
09:15	56	60	86	52	142	112	
09:30	54	68	74	36	128	104	
09:45	74	261 67	250	84	341 34	178	158 602 101 428
10:00	52	60	82	42	134	102	
10:15	58	50	61	24	119	74	
10:30	65	37	77	37	142	74	
10:45	70	245 38	185	69	289 31	134	139 534 69 319
11:00	64	49	62	25	126	74	
11:15	73	34	63	30	136	64	
11:30	83	23	66	13	149	36	
11:45	60	280 20	126	61	252 11	79	121 532 31 205
Total	1602	3516	2138	2876	3740	6392	
Percent	42.8%	55.0%	57.2%	45.0%			
Day Total		5118		5014		10132	
Peak	07:30	- 05:00	- 07:15	- 05:00	- 07:30	- 05:00	- - -
Vol.	355	- 418	- 469	- 336	- 817	- 754	- - -
P.H.F.	0.915	0.941	0.844	0.966	0.900	0.967	

Holland Street
north of Davis Square
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175536 B Volume
Site Code: 6036.05

Start Time	NB		SB		Combin ed		03/31/17 Fri					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	19	68	11	78	30	146						
12:15	12	73	10	81	22	154						
12:30	24	73	14	67	38	140						
12:45	13	68	63	277	16	51	69	295	29	119	132	572
01:00	17	90	9	79	26	169						
01:15	14	74	9	72	23	146						
01:30	7	69	5	70	12	139						
01:45	5	43	65	298	5	28	67	288	10	71	132	586
02:00	8	79	5	57	13	136						
02:15	5	56	2	71	7	127						
02:30	3	67	4	71	7	138						
02:45	1	17	80	282	2	13	66	265	3	30	146	547
03:00	3	70	5	69	8	139						
03:15	1	76	2	58	3	134						
03:30	2	91	1	73	3	164						
03:45	1	7	73	310	3	11	68	268	4	18	141	578
04:00	2	75	3	91	5	166						
04:15	2	93	5	79	7	172						
04:30	2	95	2	69	4	164						
04:45	7	13	77	340	9	19	97	336	16	32	174	676
05:00	7	80	18	78	25	158						
05:15	4	98	11	88	15	186						
05:30	6	92	22	81	28	173						
05:45	9	26	92	362	22	73	77	324	31	99	169	686
06:00	18	92	28	83	46	175						
06:15	17	78	33	82	50	160						
06:30	36	78	58	68	94	146						
06:45	36	107	66	314	83	202	75	308	119	309	141	622
07:00	56	75	82	57	138	132						
07:15	66	72	101	47	167	119						
07:30	69	63	108	58	177	121						
07:45	79	270	86	296	109	400	47	209	188	670	133	505
08:00	96	50	92	51	188	101						
08:15	79	51	87	44	166	95						
08:30	73	50	96	50	169	100						
08:45	102	350	69	220	82	357	35	180	184	707	104	400
09:00	65	55	88	38	153	93						
09:15	59	44	102	38	161	82						
09:30	72	45	71	41	143	86						
09:45	62	258	44	188	63	324	42	159	125	582	86	347
10:00	64	41	71	41	135	82						
10:15	79	55	72	26	151	81						
10:30	79	49	67	34	146	83						
10:45	69	291	39	184	83	293	43	144	152	584	82	328
11:00	85	46	78	37	163	83						
11:15	67	38	57	20	124	58						
11:30	66	36	57	25	123	61						
11:45	79	297	24	144	66	258	25	107	145	555	49	251
Total	1747	3215	2029	2883	3776	6098						
Percent	46.3%	52.7%	53.7%	47.3%								
Day Total		4962		4912		9874						
Peak	08:00	-	05:15	-	07:15	-	04:45	-	07:15	-	05:15	-
Vol.	350	-	374	-	410	-	344	-	720	-	703	-
P.H.F.	0.858		0.954		0.940		0.887		0.957		0.945	

Holland Street
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175536 B Volume
Site Code: 6036.05

Start Time	NB		SB		Combin ed		04/01/17 Sat						
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.							
12:00	34	83	20	73	54	156							
12:15	36	81	18	73	54	154							
12:30	25	73	16	69	41	142							
12:45	27	71	18	77	45	148	600						
01:00	28	66	12	75	40	141							
01:15	17	65	19	71	36	136							
01:30	28	58	20	74	48	132							
01:45	14	78	21	72	66	286	553						
02:00	15	75	14	63	29	138							
02:15	16	54	13	74	29	128							
02:30	11	80	10	56	21	136							
02:45	7	49	66	275	6	43	59	252	13	92	125	527	
03:00	8	49	3	65	11	114							
03:15	5	68	1	57	6	125							
03:30	3	56	5	67	8	123							
03:45	2	18	67	240	3	12	66	255	5	30	133	495	
04:00	1	57	2	64	3	121							
04:15	1	68	3	58	4	126							
04:30	1	60	3	55	4	115							
04:45	5	8	53	238	3	11	64	241	8	19	117	479	
05:00	3	58	7	74	10	132							
05:15	2	64	8	59	10	123							
05:30	2	49	8	63	10	112							
05:45	7	14	67	238	14	37	66	262	21	51	133	500	
06:00	8	62	7	70	15	132							
06:15	12	71	7	75	19	146							
06:30	9	76	11	55	20	131							
06:45	18	47	71	280	9	34	58	258	27	81	129	538	
07:00	15	82	18	68	33	150							
07:15	16	66	14	73	30	139							
07:30	21	66	25	57	46	123							
07:45	17	69	78	292	32	89	58	256	49	158	136	548	
08:00	28	59	27	56	55	115							
08:15	33	65	41	39	74	104							
08:30	29	61	44	40	73	101							
08:45	29	119	43	228	55	167	40	175	84	286	83	403	
09:00	35	58	46	36	81	94							
09:15	54	56	52	42	106	98							
09:30	50	44	72	43	122	87							
09:45	59	198	57	215	72	242	35	156	131	440	92	371	
10:00	52	54	66	35	118	89							
10:15	61	44	58	31	119	75							
10:30	58	42	69	49	127	91							
10:45	61	232	39	179	63	256	36	151	124	488	75	330	
11:00	69	43	65	39	134	82							
11:15	73	42	57	24	130	66							
11:30	68	33	65	35	133	68							
11:45	72	282	24	142	66	253	21	119	138	535	45	261	
Total	1245	2902	1288	2703	2533	5605							
Percent	49.2%	51.8%	50.8%	48.2%									
Day Total	4147		3991		8138								
Peak	11:00	-	12:00	-	09:30	-	00:45	-	11:00	-	12:00	-	-
Vol.	282	-	308	-	268	-	297	-	535	-	600	-	-
P.H.F.	0.966		0.928		0.931		0.964		0.969		0.962		

Holland Street
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175536 B Class
Site Code: 6036.05

NB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	1	0	32	1	4	0	0	38
01:00	1	0	16	1	2	1	0	21
02:00	0	0	10	0	0	3	0	13
03:00	1	0	5	0	0	0	0	6
04:00	0	0	9	0	0	1	0	10
05:00	0	0	22	1	2	1	0	26
06:00	4	0	65	5	8	2	0	84
07:00	10	1	236	17	9	4	0	277
08:00	12	1	261	22	9	10	1	316
09:00	6	1	221	20	10	2	2	262
10:00	4	0	192	19	8	8	0	231
11:00	1	0	194	25	10	4	1	235
12 PM	7	0	204	27	9	7	0	254
13:00	11	0	224	26	8	7	0	276
14:00	10	0	243	21	12	6	0	292
15:00	7	0	278	30	11	3	0	329
16:00	15	2	304	20	11	3	1	356
17:00	29	1	360	9	7	1	0	407
18:00	32	0	312	10	10	2	0	366
19:00	20	0	242	7	8	1	0	278
20:00	16	0	213	9	5	1	0	244
21:00	8	2	177	5	7	0	0	199
22:00	13	0	153	4	5	2	0	177
23:00	3	0	78	2	4	0	0	87
Total	211	8	4051	281	159	69	5	4784
Percent	4.4%	0.2%	84.7%	5.9%	3.3%	1.4%	0.1%	0.0%
AM Peak	08:00	07:00	08:00	11:00	09:00	08:00	09:00	08:00
Vol.	12	1	261	25	10	10	2	316
PM Peak	18:00	16:00	17:00	15:00	14:00	12:00	16:00	17:00
Vol.	32	2	360	30	12	7	1	407

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Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	2	0	32	2	4	1	0	41
01:00	2	0	24	0	3	0	0	29
02:00	1	0	12	1	0	1	0	15
03:00	0	0	5	2	0	0	0	7
04:00	0	0	5	1	0	4	0	10
05:00	0	0	16	2	2	0	0	20
06:00	2	0	88	5	6	0	0	101
07:00	12	1	231	19	8	3	0	274
08:00	10	1	260	20	14	14	0	319
09:00	18	2	202	18	9	11	1	261
10:00	2	1	204	22	5	11	0	245
11:00	7	0	228	23	11	10	1	280
12 PM	10	1	223	26	7	7	2	276
13:00	9	0	239	26	8	10	1	293
14:00	14	0	255	21	12	6	1	309
15:00	15	0	278	18	11	7	0	329
16:00	13	2	307	20	9	4	0	355
17:00	41	1	351	15	7	3	0	418
18:00	41	2	306	13	11	1	0	374
19:00	18	0	282	6	10	2	0	318
20:00	28	0	239	9	7	0	0	283
21:00	10	4	215	11	9	1	0	250
22:00	11	0	163	5	6	0	0	185
23:00	10	0	106	4	6	0	0	126
Total	276	15	4271	289	165	96	6	5118
Percent	5.4%	0.3%	83.5%	5.6%	3.2%	1.9%	0.1%	0.0%
AM Peak	09:00	09:00	08:00	11:00	08:00	08:00	09:00	08:00
Vol.	18	2	260	23	14	14	1	319
PM Peak	17:00	21:00	17:00	12:00	14:00	13:00	12:00	17:00
Vol.	41	4	351	26	12	10	2	418

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Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	2	0	62	0	4	0	0	68
01:00	1	0	39	0	3	0	0	43
02:00	1	0	15	0	0	1	0	17
03:00	0	0	4	2	0	1	0	7
04:00	0	0	11	1	0	1	0	13
05:00	0	0	19	2	2	3	0	26
06:00	3	0	82	12	6	4	0	107
07:00	3	1	231	15	8	11	1	270
08:00	12	0	287	21	14	15	1	350
09:00	7	1	199	28	14	8	1	258
10:00	6	0	239	27	6	13	0	291
11:00	7	0	226	36	10	16	2	297
12 PM	5	0	227	23	10	11	1	277
13:00	1	0	258	22	8	9	0	298
14:00	2	0	253	16	8	3	0	282
15:00	4	0	286	10	8	2	0	310
16:00	5	1	299	18	13	4	0	340
17:00	10	1	330	11	8	1	1	362
18:00	7	1	286	8	12	0	0	314
19:00	7	0	272	7	10	0	0	296
20:00	2	0	204	7	7	0	0	220
21:00	1	0	171	5	9	1	1	188
22:00	2	0	166	8	6	2	0	184
23:00	2	0	124	10	6	2	0	144
Total	90	5	4290	289	172	108	8	4962
Percent	1.8%	0.1%	86.5%	5.8%	3.5%	2.2%	0.2%	0.0%
AM Peak	08:00	07:00	08:00	11:00	08:00	11:00	11:00	08:00
Vol.	12	1	287	36	14	16	2	350
PM Peak	17:00	16:00	17:00	12:00	16:00	12:00	12:00	17:00
Vol.	10	1	330	23	13	11	1	362

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NB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	2	0	111	4	4	1	0	122
01:00	1	0	82	0	3	1	0	87
02:00	0	0	46	2	0	1	0	49
03:00	0	0	16	2	0	0	0	18
04:00	0	0	5	2	0	1	0	8
05:00	0	0	12	1	1	0	0	14
06:00	0	0	38	5	4	0	0	47
07:00	0	0	55	6	5	3	0	69
08:00	1	0	105	9	4	0	0	119
09:00	0	0	176	11	5	5	1	198
10:00	1	0	203	20	4	3	1	232
11:00	2	0	249	21	7	3	0	282
12 PM	0	0	276	19	7	6	0	308
13:00	1	0	238	17	8	3	0	267
14:00	1	0	253	12	8	1	0	275
15:00	2	0	219	7	8	4	0	240
16:00	2	1	215	9	9	2	0	238
17:00	4	0	217	9	7	1	0	238
18:00	1	0	258	10	9	2	0	280
19:00	0	0	274	8	10	0	0	292
20:00	4	0	214	3	7	0	0	228
21:00	0	0	197	9	9	0	0	215
22:00	4	1	161	8	5	0	0	179
23:00	1	0	133	1	7	0	0	142
Total	27	2	3753	195	131	37	2	4147
Percent	0.7%	0.0%	90.5%	4.7%	3.2%	0.9%	0.0%	0.0%
AM Peak	00:00		11:00	11:00	11:00	09:00	09:00	11:00
Vol.	2		249	21	7	5	1	282
PM Peak	17:00	16:00	12:00	12:00	19:00	12:00		12:00
Vol.	4	1	276	19	10	6		308

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SB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	0	0	24	0	4	0	0	28
01:00	0	0	15	0	0	1	0	16
02:00	0	0	9	1	0	1	0	11
03:00	0	0	3	0	0	0	0	3
04:00	1	0	12	1	0	0	0	14
05:00	0	1	54	5	5	3	0	68
06:00	11	0	161	22	5	2	1	202
07:00	20	0	375	30	11	6	1	443
08:00	43	0	345	21	11	7	0	427
09:00	27	1	266	10	8	9	1	322
10:00	12	0	222	14	5	3	0	256
11:00	9	0	209	15	8	7	2	250
12 PM	4	0	209	27	7	3	0	250
13:00	13	0	190	19	6	5	0	233
14:00	9	1	230	19	10	3	0	272
15:00	9	1	209	16	8	5	1	249
16:00	12	1	240	20	7	2	1	283
17:00	16	1	253	14	7	0	0	291
18:00	19	0	265	9	6	0	0	299
19:00	13	0	208	10	6	1	0	238
20:00	8	1	147	6	5	0	0	167
21:00	5	0	143	2	4	0	0	154
22:00	0	0	96	3	3	1	0	103
23:00	4	0	39	2	4	0	0	49
Total	235	7	3924	266	130	59	7	4628
Percent	5.1%	0.2%	84.8%	5.7%	2.8%	1.3%	0.2%	0.0%
AM Peak	08:00	05:00	07:00	07:00	07:00	09:00	11:00	07:00
Vol.	43	1	375	30	11	9	2	443
PM Peak	18:00	14:00	18:00	12:00	14:00	13:00	15:00	18:00
Vol.	19	1	265	27	10	5	1	299

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SB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	1	0	23	0	4	1	0	29
01:00	0	0	20	0	0	0	0	20
02:00	0	0	10	1	0	3	0	14
03:00	0	0	7	2	0	1	0	10
04:00	0	0	13	1	0	1	0	15
05:00	1	1	53	10	5	1	0	71
06:00	10	1	189	15	6	1	0	222
07:00	33	1	383	30	12	3	0	462
08:00	51	2	319	23	10	8	0	413
09:00	30	1	275	13	10	10	2	341
10:00	24	0	234	16	4	11	0	289
11:00	9	0	199	25	8	11	0	252
12 PM	9	0	251	22	4	4	2	292
13:00	10	0	201	9	10	6	0	236
14:00	12	0	205	23	7	5	0	252
15:00	22	0	257	19	7	3	0	308
16:00	20	1	240	15	9	2	0	287
17:00	21	0	295	14	5	0	1	336
18:00	22	0	272	6	8	3	0	311
19:00	13	0	253	4	4	0	0	274
20:00	9	2	164	8	6	0	0	189
21:00	6	1	165	2	4	0	0	178
22:00	4	0	120	5	3	2	0	134
23:00	4	0	71	0	4	0	0	79
Total	311	10	4219	263	130	76	5	5014
Percent	6.2%	0.2%	84.1%	5.2%	2.6%	1.5%	0.1%	0.0%
AM Peak	08:00	08:00	07:00	07:00	07:00	10:00	09:00	07:00
Vol.	51	2	383	30	12	11	2	462
PM Peak	15:00	20:00	17:00	14:00	13:00	13:00	12:00	17:00
Vol.	22	2	295	23	10	6	2	336

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SB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	2	0	45	0	4	0	0	51
01:00	1	0	26	0	0	1	0	28
02:00	0	0	12	0	0	1	0	13
03:00	0	0	8	1	0	1	1	11
04:00	1	0	13	1	0	3	1	19
05:00	1	1	56	8	5	2	0	73
06:00	2	0	172	18	8	2	0	202
07:00	12	0	341	26	13	8	0	400
08:00	20	0	298	19	8	11	1	357
09:00	24	1	265	20	7	7	0	324
10:00	9	0	245	22	5	12	0	293
11:00	5	0	217	24	5	6	1	258
12 PM	9	0	256	14	6	9	1	295
13:00	3	0	248	21	9	7	0	288
14:00	2	0	235	15	5	7	1	265
15:00	4	1	235	17	6	4	1	268
16:00	3	0	308	15	8	2	0	336
17:00	1	1	303	13	5	0	1	324
18:00	7	0	286	8	7	0	0	308
19:00	0	0	201	3	5	0	0	209
20:00	2	0	170	3	5	0	0	180
21:00	1	0	150	3	4	1	0	159
22:00	1	0	131	5	3	4	0	144
23:00	0	0	98	4	4	1	0	107
Total	110	4	4319	260	122	89	8	4912
Percent	2.2%	0.1%	87.9%	5.3%	2.5%	1.8%	0.2%	0.0%
AM Peak	09:00	05:00	07:00	07:00	07:00	10:00	03:00	07:00
Vol.	24	1	341	26	13	12	1	400
PM Peak	12:00	15:00	16:00	13:00	13:00	12:00	12:00	16:00
Vol.	9	1	308	21	9	9	1	336

Holland Street
north of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 B Class
Site Code: 6036.05

SB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	2	0	64	1	5	0	0	72
01:00	0	0	71	1	0	0	0	72
02:00	0	0	40	2	0	1	0	43
03:00	0	0	10	2	0	0	0	12
04:00	1	0	7	1	0	1	1	11
05:00	0	0	25	5	3	4	0	37
06:00	0	0	24	5	5	0	0	34
07:00	0	0	75	6	6	2	0	89
08:00	0	0	152	9	3	3	0	167
09:00	2	0	225	8	5	2	0	242
10:00	0	0	238	9	5	4	0	256
11:00	1	0	228	13	5	6	0	253
12 PM	2	0	270	11	5	4	0	292
13:00	1	0	258	21	5	1	0	286
14:00	3	0	225	14	5	5	0	252
15:00	0	0	240	6	6	3	0	255
16:00	1	1	217	13	5	3	1	241
17:00	3	0	240	13	6	0	0	262
18:00	6	0	240	8	4	0	0	258
19:00	2	0	248	2	4	0	0	256
20:00	2	0	162	7	4	0	0	175
21:00	2	0	150	1	3	0	0	156
22:00	2	0	141	5	3	0	0	151
23:00	0	1	112	3	3	0	0	119
Total	30	2	3662	166	90	39	2	3991
Percent	0.8%	0.1%	91.8%	4.2%	2.3%	1.0%	0.1%	0.0%
AM Peak	00:00		10:00	11:00	07:00	11:00	04:00	10:00
Vol.	2		238	13	6	6	1	256
PM Peak	18:00	16:00	12:00	13:00	15:00	14:00	16:00	12:00
Vol.	6	1	270	21	6	5	1	292

Highland Avenue
south of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 C Volume
Site Code: 6036.05

Start Time	03/29/17		Thu		Fri		Sat		Sun		Mon		Tue		Average Day	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	32	184	41	188	64	189	83	219	*	*	*	*	*	*	55	195
12:15	23	152	32	173	39	197	108	222	*	*	*	*	*	*	50	186
12:30	26	157	23	169	61	203	80	186	*	*	*	*	*	*	48	179
12:45	19	196	21	185	41	188	99	218	*	*	*	*	*	*	45	197
01:00	24	202	32	206	57	217	82	219	*	*	*	*	*	*	49	211
01:15	21	170	22	182	40	185	73	193	*	*	*	*	*	*	39	182
01:30	16	157	13	199	28	182	72	227	*	*	*	*	*	*	32	191
01:45	15	138	21	177	17	181	58	228	*	*	*	*	*	*	28	181
02:00	8	184	11	186	19	188	68	188	*	*	*	*	*	*	26	186
02:15	11	181	6	211	19	178	64	186	*	*	*	*	*	*	25	189
02:30	15	182	8	185	7	201	31	211	*	*	*	*	*	*	15	195
02:45	6	199	15	178	7	218	21	175	*	*	*	*	*	*	12	192
03:00	8	232	9	226	12	259	18	175	*	*	*	*	*	*	12	223
03:15	4	236	4	225	11	201	14	194	*	*	*	*	*	*	8	214
03:30	7	211	3	220	6	249	7	186	*	*	*	*	*	*	6	216
03:45	4	229	0	230	6	223	18	192	*	*	*	*	*	*	7	218
04:00	1	222	6	235	8	245	7	174	*	*	*	*	*	*	6	219
04:15	7	242	6	264	8	226	6	197	*	*	*	*	*	*	7	232
04:30	6	267	3	256	8	240	5	170	*	*	*	*	*	*	6	233
04:45	8	269	7	239	14	247	5	178	*	*	*	*	*	*	8	233
05:00	11	262	14	269	14	245	12	198	*	*	*	*	*	*	13	244
05:15	18	267	24	267	17	277	10	192	*	*	*	*	*	*	17	251
05:30	35	293	35	280	29	251	14	191	*	*	*	*	*	*	28	254
05:45	34	269	39	239	41	266	19	216	*	*	*	*	*	*	33	248
06:00	47	251	39	249	49	246	19	215	*	*	*	*	*	*	38	240
06:15	67	249	53	249	70	224	21	238	*	*	*	*	*	*	53	240
06:30	99	249	99	219	98	229	28	208	*	*	*	*	*	*	81	226
06:45	108	247	120	242	106	210	49	220	*	*	*	*	*	*	96	230
07:00	151	223	161	212	154	215	35	187	*	*	*	*	*	*	125	209
07:15	163	176	176	216	179	207	45	180	*	*	*	*	*	*	141	195
07:30	218	174	214	245	203	189	57	200	*	*	*	*	*	*	173	202
07:45	219	200	216	215	195	203	76	186	*	*	*	*	*	*	176	201
08:00	210	171	230	204	243	168	60	177	*	*	*	*	*	*	186	180
08:15	218	170	253	201	186	167	76	154	*	*	*	*	*	*	183	173
08:30	204	139	189	168	213	147	96	162	*	*	*	*	*	*	176	154
08:45	192	169	168	175	198	170	108	141	*	*	*	*	*	*	166	164
09:00	156	158	176	176	172	147	104	166	*	*	*	*	*	*	152	162
09:15	151	154	159	155	156	147	133	150	*	*	*	*	*	*	150	152
09:30	140	130	139	133	171	157	159	152	*	*	*	*	*	*	152	143
09:45	147	130	158	162	171	142	157	138	*	*	*	*	*	*	158	143
10:00	136	117	143	144	154	127	155	145	*	*	*	*	*	*	147	133
10:15	143	116	161	122	168	148	158	127	*	*	*	*	*	*	158	128
10:30	142	103	165	119	174	135	154	131	*	*	*	*	*	*	159	122
10:45	143	92	156	119	161	139	185	148	*	*	*	*	*	*	161	124
11:00	157	85	148	109	178	137	186	135	*	*	*	*	*	*	167	116
11:15	157	66	170	104	177	144	190	119	*	*	*	*	*	*	174	108
11:30	154	61	176	59	178	102	202	120	*	*	*	*	*	*	178	86
11:45	164	63	172	63	178	87	194	86	*	*	*	*	*	*	177	75
Total	4045	8794	4236	9249	4505	9243	3621	8620	0	0	0	0	0	0	4102	8975
Day Total	12839		13485		13748		12241		0		0		0		13077	
% Splits	31.5%	68.5%	31.4%	68.6%	32.8%	67.2%	29.6%	70.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.4%	68.6%
Peak	07:30	04:45	07:30	04:45	08:00	05:15	11:00	06:00	-	-	-	-	-	-	07:45	05:00
Vol.	865	1091	913	1055	840	1040	772	881	-	-	-	-	-	-	721	997
P.H.F.	0.987	0.931	0.902	0.942	0.864	0.939	0.955	0.925							0.969	0.981

Highland Avenue
 south of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



PRECISION
 D A T A
 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
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 Email: datarequests@pdillc.com

175536 C Volume
 Site Code: 6036.05

Start Time	A.M.	NB	P.M.											
12:00	32		184											
12:15	23		152											
12:30	26		157											
12:45	19	100	196	689										
01:00	24		202											
01:15	21		170											
01:30	16		157											
01:45	15	76	138	667										
02:00	8		184											
02:15	11		181											
02:30	15		182											
02:45	6	40	199	746										
03:00	8		232											
03:15	4		236											
03:30	7		211											
03:45	4	23	229	908										
04:00	1		222											
04:15	7		242											
04:30	6		267											
04:45	8	22	269	1000										
05:00	11		262											
05:15	18		267											
05:30	35		293											
05:45	34	98	269	1091										
06:00	47		251											
06:15	67		249											
06:30	99		249											
06:45	108	321	247	996										
07:00	151		223											
07:15	163		176											
07:30	218		174											
07:45	219	751	200	773										
08:00	210		171											
08:15	218		170											
08:30	204		139											
08:45	192	824	169	649										
09:00	156		158											
09:15	151		154											
09:30	140		130											
09:45	147	594	130	572										
10:00	136		117											
10:15	143		116											
10:30	142		103											
10:45	143	564	92	428										
11:00	157		85											
11:15	157		66											
11:30	154		61											
11:45	164	632	63	275										
Total	4045		8794											
Percent			100.0	0.0%	0.0%									
			%											
Day Total		12839												
Peak	07:30	-	04:45	-	-	-	-	-	-	-	-	-	-	-
Vol.	865	-	1091	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.987		0.931											

Highland Avenue
 south of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



PRECISION
 D A T A
 INDUSTRIES, LLC

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175536 C Volume
 Site Code: 6036.05

Start Time	A.M.	NB	P.M.											Thu 03/30/17						
12:00	41		188																	
12:15	32		173																	
12:30	23		169																	
12:45	21	117	185	715																
01:00	32		206																	
01:15	22		182																	
01:30	13		199																	
01:45	21	88	177	764																
02:00	11		186																	
02:15	6		211																	
02:30	8		185																	
02:45	15	40	178	760																
03:00	9		226																	
03:15	4		225																	
03:30	3		220																	
03:45	0	16	230	901																
04:00	6		235																	
04:15	6		264																	
04:30	3		256																	
04:45	7	22	239	994																
05:00	14		269																	
05:15	24		267																	
05:30	35		280																	
05:45	39	112	239	1055																
06:00	39		249																	
06:15	53		249																	
06:30	99		219																	
06:45	120	311	242	959																
07:00	161		212																	
07:15	176		216																	
07:30	214		245																	
07:45	216	767	215	888																
08:00	230		204																	
08:15	253		201																	
08:30	189		168																	
08:45	168	840	175	748																
09:00	176		176																	
09:15	159		155																	
09:30	139		133																	
09:45	158	632	162	626																
10:00	143		144																	
10:15	161		122																	
10:30	165		119																	
10:45	156	625	119	504																
11:00	148		109																	
11:15	170		104																	
11:30	176		59																	
11:45	172	666	63	335																
Total	4236		9249																	
Percent			100.0			0.0%			0.0%											
			%																	
Day Total		13485																		
Peak	07:30	-	04:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	913	-	1055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.902		0.942																	

Highland Avenue
 south of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



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175536 C Volume
 Site Code: 6036.05

Start Time	A.M.	NB	P.M.											Fri						
														03/31/17						
12:00	64		189																	
12:15	39		197																	
12:30	61		203																	
12:45	41	205	188	777																
01:00	57		217																	
01:15	40		185																	
01:30	28		182																	
01:45	17	142	181	765																
02:00	19		188																	
02:15	19		178																	
02:30	7		201																	
02:45	7	52	218	785																
03:00	12		259																	
03:15	11		201																	
03:30	6		249																	
03:45	6	35	223	932																
04:00	8		245																	
04:15	8		226																	
04:30	8		240																	
04:45	14	38	247	958																
05:00	14		245																	
05:15	17		277																	
05:30	29		251																	
05:45	41	101	266	1039																
06:00	49		246																	
06:15	70		224																	
06:30	98		229																	
06:45	106	323	210	909																
07:00	154		215																	
07:15	179		207																	
07:30	203		189																	
07:45	195	731	203	814																
08:00	243		168																	
08:15	186		167																	
08:30	213		147																	
08:45	198	840	170	652																
09:00	172		147																	
09:15	156		147																	
09:30	171		157																	
09:45	171	670	142	593																
10:00	154		127																	
10:15	168		148																	
10:30	174		135																	
10:45	161	657	139	549																
11:00	178		137																	
11:15	177		144																	
11:30	178		102																	
11:45	178	711	87	470																
Total	4505		9243																	
Percent			100.0		0.0%		0.0%													
			%																	
Day Total		13748																		
Peak	08:00	-	05:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	840	-	1040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.864		0.939																	

Highland Avenue
 south of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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175536 C Volume
 Site Code: 6036.05

Start Time	A.M.	NB	P.M.											Sat	
12:00	83		219											04/01/17	
12:15	108		222												
12:30	80		186												
12:45	99	370	218	845											
01:00	82		219												
01:15	73		193												
01:30	72		227												
01:45	58	285	228	867											
02:00	68		188												
02:15	64		186												
02:30	31		211												
02:45	21	184	175	760											
03:00	18		175												
03:15	14		194												
03:30	7		186												
03:45	18	57	192	747											
04:00	7		174												
04:15	6		197												
04:30	5		170												
04:45	5	23	178	719											
05:00	12		198												
05:15	10		192												
05:30	14		191												
05:45	19	55	216	797											
06:00	19		215												
06:15	21		238												
06:30	28		208												
06:45	49	117	220	881											
07:00	35		187												
07:15	45		180												
07:30	57		200												
07:45	76	213	186	753											
08:00	60		177												
08:15	76		154												
08:30	96		162												
08:45	108	340	141	634											
09:00	104		166												
09:15	133		150												
09:30	159		152												
09:45	157	553	138	606											
10:00	155		145												
10:15	158		127												
10:30	154		131												
10:45	185	652	148	551											
11:00	186		135												
11:15	190		119												
11:30	202		120												
11:45	194	772	86	460											
Total	3621		8620												
Percent			100.0	0.0%	0.0%										
			%												
Day Total		12241													
Peak	11:00	-	06:00	-	-	-	-	-	-	-	-	-	-		
Vol.	772	-	881	-	-	-	-	-	-	-	-	-	-		
P.H.F.	0.955		0.925												

Highland Avenue
south of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

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Office: 508-875-0100 Fax: 508-875-0118
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175536 C Class
Site Code: 6036.05

NB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	1	0	97	2	0	0	0	100
01:00	1	1	73	0	0	1	0	76
02:00	0	0	34	2	0	4	0	40
03:00	1	0	20	1	0	1	0	23
04:00	0	0	20	0	0	2	0	22
05:00	0	0	92	5	0	1	0	98
06:00	0	1	294	16	6	4	0	321
07:00	10	1	681	37	7	13	2	751
08:00	12	1	743	46	5	16	1	824
09:00	8	2	528	26	4	26	0	594
10:00	6	1	486	49	2	20	0	564
11:00	8	0	543	56	5	20	0	632
12 PM	7	0	594	65	7	16	0	689
13:00	13	0	576	57	4	17	0	667
14:00	7	0	663	61	3	12	0	746
15:00	5	1	839	51	4	7	1	908
16:00	19	5	928	34	5	8	1	1000
17:00	35	0	1012	34	3	6	1	1091
18:00	38	0	930	22	1	5	0	996
19:00	30	2	723	16	1	1	0	773
20:00	18	3	608	18	0	2	0	649
21:00	10	0	551	8	1	2	0	572
22:00	12	0	402	12	0	2	0	428
23:00	5	0	264	6	0	0	0	275
Total	246	18	11701	624	58	186	6	12839
Percent	1.9%	0.1%	91.1%	4.9%	0.5%	1.4%	0.0%	0.0%
AM Peak	08:00	09:00	08:00	11:00	07:00	09:00	07:00	08:00
Vol.	12	2	743	56	7	26	2	824
PM Peak	18:00	16:00	17:00	12:00	12:00	13:00	15:00	17:00
Vol.	38	5	1012	65	7	17	1	1091

Highland Avenue
south of Davis Square
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175536 C Class
Site Code: 6036.05

NB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	2	0	113	0	0	2	0	117
01:00	3	0	83	1	0	1	0	88
02:00	1	0	35	1	0	2	1	40
03:00	0	0	12	3	0	1	0	16
04:00	0	0	17	1	0	4	0	22
05:00	2	0	96	8	0	1	5	112
06:00	3	1	284	15	4	4	0	311
07:00	13	1	698	34	5	14	2	767
08:00	8	1	766	31	5	28	1	840
09:00	18	2	532	44	3	30	3	632
10:00	10	1	538	47	2	27	0	625
11:00	10	1	568	52	2	32	1	666
12 PM	16	2	610	58	0	24	5	715
13:00	17	0	661	56	3	26	1	764
14:00	15	1	666	55	3	18	2	760
15:00	16	2	798	63	4	18	0	901
16:00	18	3	880	79	5	9	0	994
17:00	45	3	958	40	3	6	0	1055
18:00	43	1	883	30	0	1	1	959
19:00	20	1	844	18	2	3	0	888
20:00	1	2	727	18	0	0	0	748
21:00	16	3	594	12	0	1	0	626
22:00	11	1	476	14	0	2	0	504
23:00	9	0	322	3	0	1	0	335
Total	297	26	12161	683	41	255	22	13485
Percent	2.2%	0.2%	90.2%	5.1%	0.3%	1.9%	0.2%	0.0%
AM Peak	09:00	09:00	08:00	11:00	07:00	11:00	05:00	08:00
Vol.	18	2	766	52	5	32	5	840
PM Peak	17:00	16:00	17:00	16:00	16:00	13:00	12:00	17:00
Vol.	45	3	958	79	5	26	5	1055

Highland Avenue
south of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 C Class
Site Code: 6036.05

NB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	3	1	194	5	1	1	0	205
01:00	0	2	136	3	0	1	0	142
02:00	0	0	50	1	0	1	0	52
03:00	0	0	32	0	0	2	1	35
04:00	2	0	31	1	0	4	0	38
05:00	0	0	92	3	0	6	0	101
06:00	3	1	280	18	5	15	1	323
07:00	5	1	658	36	6	24	1	731
08:00	9	0	757	39	5	28	2	840
09:00	8	1	576	47	5	33	0	670
10:00	7	0	566	56	3	25	0	657
11:00	6	0	609	53	1	42	0	711
12 PM	6	0	674	70	5	22	0	777
13:00	3	0	669	70	4	18	1	765
14:00	1	0	720	48	0	15	1	785
15:00	8	0	865	48	3	7	1	932
16:00	2	2	898	43	5	8	0	958
17:00	19	0	981	29	2	7	1	1039
18:00	1	0	877	29	0	2	0	909
19:00	11	0	777	26	0	0	0	814
20:00	0	0	633	15	3	1	0	652
21:00	0	0	582	5	0	6	0	593
22:00	3	0	525	15	0	6	0	549
23:00	1	0	448	14	0	6	1	470
Total	98	8	12630	674	48	280	10	13748
Percent	0.7%	0.1%	91.9%	4.9%	0.3%	2.0%	0.1%	0.0%
AM Peak	08:00	01:00	08:00	10:00	07:00	11:00	08:00	08:00
Vol.	9	2	757	56	6	42	2	840
PM Peak	17:00	16:00	17:00	12:00	12:00	12:00	13:00	17:00
Vol.	19	2	981	70	5	22	1	1039

Highland Avenue
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175536 C Class
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NB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	1	1	362	5	0	1	0	370
01:00	1	0	282	0	0	2	0	285
02:00	1	0	175	5	1	2	0	184
03:00	1	0	51	2	0	2	1	57
04:00	0	0	18	4	0	1	0	23
05:00	1	0	49	2	0	3	0	55
06:00	0	0	110	2	0	3	2	117
07:00	0	0	195	10	2	5	1	213
08:00	1	0	318	17	0	4	0	340
09:00	2	0	522	15	1	12	1	553
10:00	1	0	605	31	0	14	1	652
11:00	3	0	716	44	0	9	0	772
12 PM	0	0	791	40	0	14	0	845
13:00	2	0	805	53	1	6	0	867
14:00	0	0	719	33	2	6	0	760
15:00	1	0	713	24	0	9	0	747
16:00	6	0	681	27	1	4	0	719
17:00	4	0	758	27	1	6	1	797
18:00	3	0	845	31	0	2	0	881
19:00	0	0	744	9	0	0	0	753
20:00	4	0	612	17	1	0	0	634
21:00	2	0	593	11	0	0	0	606
22:00	23	1	521	6	0	0	0	551
23:00	2	0	448	8	1	1	0	460
Total	59	2	11633	423	11	106	7	12241
Percent	0.5%	0.0%	95.0%	3.5%	0.1%	0.9%	0.1%	0.0%
AM Peak	11:00	00:00	11:00	11:00	07:00	10:00	06:00	11:00
Vol.	3	1	716	44	2	14	2	772
PM Peak	22:00	22:00	18:00	13:00	14:00	12:00	17:00	18:00
Vol.	23	1	845	53	2	14	1	881

Elm Street
 south of Davis Square
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175536 D Volume
 Site Code: 6036.05

Start Time	03/29/17		Thu		Fri		Sat		Sun		Mon		Tue		Average Day	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	32	187	29	168	51	191	70	199	*	*	*	*	*	*	46	186
12:15	10	152	28	184	45	175	80	217	*	*	*	*	*	*	41	182
12:30	19	161	18	165	48	188	88	187	*	*	*	*	*	*	43	175
12:45	27	182	19	203	48	183	83	197	*	*	*	*	*	*	44	191
01:00	18	162	26	174	46	199	88	232	*	*	*	*	*	*	44	192
01:15	18	146	17	156	34	171	61	197	*	*	*	*	*	*	32	168
01:30	12	150	11	186	19	171	71	232	*	*	*	*	*	*	28	185
01:45	12	169	11	153	14	168	58	229	*	*	*	*	*	*	24	180
02:00	5	151	8	159	17	165	72	188	*	*	*	*	*	*	26	166
02:15	7	170	7	182	13	180	58	199	*	*	*	*	*	*	21	183
02:30	10	181	6	148	9	174	25	188	*	*	*	*	*	*	12	173
02:45	11	167	0	157	11	185	23	185	*	*	*	*	*	*	11	174
03:00	8	189	9	139	10	175	11	190	*	*	*	*	*	*	10	173
03:15	4	165	2	190	8	162	5	156	*	*	*	*	*	*	5	168
03:30	5	174	6	203	5	182	9	181	*	*	*	*	*	*	6	185
03:45	4	174	8	178	8	179	7	175	*	*	*	*	*	*	7	176
04:00	7	169	5	176	8	180	4	178	*	*	*	*	*	*	6	176
04:15	8	167	6	161	13	190	9	169	*	*	*	*	*	*	9	172
04:30	14	182	15	189	17	166	13	172	*	*	*	*	*	*	15	177
04:45	14	181	17	191	18	205	13	184	*	*	*	*	*	*	16	190
05:00	22	194	27	185	31	194	12	211	*	*	*	*	*	*	23	196
05:15	29	181	28	197	33	194	20	189	*	*	*	*	*	*	28	190
05:30	46	190	70	184	67	200	28	192	*	*	*	*	*	*	53	192
05:45	73	187	70	184	50	187	23	210	*	*	*	*	*	*	54	192
06:00	68	178	70	183	82	208	29	226	*	*	*	*	*	*	62	199
06:15	122	193	115	196	102	221	24	237	*	*	*	*	*	*	91	212
06:30	146	174	144	203	156	193	30	228	*	*	*	*	*	*	119	200
06:45	173	204	174	185	164	208	37	231	*	*	*	*	*	*	137	207
07:00	201	206	195	204	184	199	46	219	*	*	*	*	*	*	156	207
07:15	223	168	221	224	211	182	47	199	*	*	*	*	*	*	176	193
07:30	216	160	250	222	221	191	64	197	*	*	*	*	*	*	188	192
07:45	242	170	235	184	238	172	89	191	*	*	*	*	*	*	201	179
08:00	203	147	227	197	205	194	80	207	*	*	*	*	*	*	179	186
08:15	241	118	235	157	200	163	96	157	*	*	*	*	*	*	193	149
08:30	225	140	218	149	211	168	116	148	*	*	*	*	*	*	192	151
08:45	194	132	238	145	181	142	151	171	*	*	*	*	*	*	191	148
09:00	208	128	188	172	198	142	124	162	*	*	*	*	*	*	180	151
09:15	179	110	194	158	209	142	133	132	*	*	*	*	*	*	179	136
09:30	159	121	174	116	175	141	152	140	*	*	*	*	*	*	165	130
09:45	173	111	179	121	153	123	182	135	*	*	*	*	*	*	172	122
10:00	148	102	195	110	184	135	150	118	*	*	*	*	*	*	169	116
10:15	156	93	156	97	155	108	162	121	*	*	*	*	*	*	157	105
10:30	155	86	159	119	158	123	166	158	*	*	*	*	*	*	160	122
10:45	153	71	154	109	178	118	169	123	*	*	*	*	*	*	164	105
11:00	154	70	159	75	176	126	169	115	*	*	*	*	*	*	164	96
11:15	158	42	152	109	175	125	180	110	*	*	*	*	*	*	166	96
11:30	162	45	163	61	172	90	184	136	*	*	*	*	*	*	170	83
11:45	164	40	165	54	175	104	194	125	*	*	*	*	*	*	174	81
Total	4638	7140	4803	7762	4886	8082	3705	8643	0	0	0	0	0	0	4509	7908
Day Total	11778		12565		12968		12348		0		0		0		12417	
% Splits	39.4%	60.6%	38.2%	61.8%	37.7%	62.3%	30.0%	70.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.3%	63.7%
Peak	07:45	06:15	07:30	06:45	07:15	06:00	11:00	06:00	-	-	-	-	-	-	07:45	06:15
Vol.	911	777	947	835	875	830	727	922	-	-	-	-	-	-	765	826
P.H.F.	0.941	0.943	0.947	0.932	0.919	0.939	0.937	0.973	-	-	-	-	-	-	0.951	0.974

Elm Street
 south of Davis Square
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PRECISION
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 INDUSTRIES, LLC

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175536 D Volume
 Site Code: 6036.05

Start Time	A.M.	SB	P.M.											
12:00	32		187											
12:15	10		152											
12:30	19		161											
12:45	27	88	182	682										
01:00	18		162											
01:15	18		146											
01:30	12		150											
01:45	12	60	169	627										
02:00	5		151											
02:15	7		170											
02:30	10		181											
02:45	11	33	167	669										
03:00	8		189											
03:15	4		165											
03:30	5		174											
03:45	4	21	174	702										
04:00	7		169											
04:15	8		167											
04:30	14		182											
04:45	14	43	181	699										
05:00	22		194											
05:15	29		181											
05:30	46		190											
05:45	73	170	187	752										
06:00	68		178											
06:15	122		193											
06:30	146		174											
06:45	173	509	204	749										
07:00	201		206											
07:15	223		168											
07:30	216		160											
07:45	242	882	170	704										
08:00	203		147											
08:15	241		118											
08:30	225		140											
08:45	194	863	132	537										
09:00	208		128											
09:15	179		110											
09:30	159		121											
09:45	173	719	111	470										
10:00	148		102											
10:15	156		93											
10:30	155		86											
10:45	153	612	71	352										
11:00	154		70											
11:15	158		42											
11:30	162		45											
11:45	164	638	40	197										
Total	4638		7140											
Percent			100.0	0.0%	0.0%									
			%											
Day Total		11778												
Peak	07:45	-	06:15	-	-	-	-	-	-	-	-	-	-	
Vol.	911	-	777	-	-	-	-	-	-	-	-	-	-	
P.H.F.	0.941		0.943											

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175536 D Volume
 Site Code: 6036.05

Start Time	A.M.	SB	P.M.											Thu 03/30/17						
12:00	29		168																	
12:15	28		184																	
12:30	18		165																	
12:45	19	94	203	720																
01:00	26		174																	
01:15	17		156																	
01:30	11		186																	
01:45	11	65	153	669																
02:00	8		159																	
02:15	7		182																	
02:30	6		148																	
02:45	0	21	157	646																
03:00	9		139																	
03:15	2		190																	
03:30	6		203																	
03:45	8	25	178	710																
04:00	5		176																	
04:15	6		161																	
04:30	15		189																	
04:45	17	43	191	717																
05:00	27		185																	
05:15	28		197																	
05:30	70		184																	
05:45	70	195	184	750																
06:00	70		183																	
06:15	115		196																	
06:30	144		203																	
06:45	174	503	185	767																
07:00	195		204																	
07:15	221		224																	
07:30	250		222																	
07:45	235	901	184	834																
08:00	227		197																	
08:15	235		157																	
08:30	218		149																	
08:45	238	918	145	648																
09:00	188		172																	
09:15	194		158																	
09:30	174		116																	
09:45	179	735	121	567																
10:00	195		110																	
10:15	156		97																	
10:30	159		119																	
10:45	154	664	109	435																
11:00	159		75																	
11:15	152		109																	
11:30	163		61																	
11:45	165	639	54	299																
Total	4803		7762																	
Percent			100.0		0.0%		0.0%													
			%																	
Day Total		12565																		
Peak	07:30	-	06:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	947	-	835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.947		0.932																	

Elm Street
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175536 D Volume
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Start Time	A.M.	SB	P.M.																	
				Fri 03/31/17																
12:00	51		191																	
12:15	45		175																	
12:30	48		188																	
12:45	48	192	183	737																
01:00	46		199																	
01:15	34		171																	
01:30	19		171																	
01:45	14	113	168	709																
02:00	17		165																	
02:15	13		180																	
02:30	9		174																	
02:45	11	50	185	704																
03:00	10		175																	
03:15	8		162																	
03:30	5		182																	
03:45	8	31	179	698																
04:00	8		180																	
04:15	13		190																	
04:30	17		166																	
04:45	18	56	205	741																
05:00	31		194																	
05:15	33		194																	
05:30	67		200																	
05:45	50	181	187	775																
06:00	82		208																	
06:15	102		221																	
06:30	156		193																	
06:45	164	504	208	830																
07:00	184		199																	
07:15	211		182																	
07:30	221		191																	
07:45	238	854	172	744																
08:00	205		194																	
08:15	200		163																	
08:30	211		168																	
08:45	181	797	142	667																
09:00	198		142																	
09:15	209		142																	
09:30	175		141																	
09:45	153	735	123	548																
10:00	184		135																	
10:15	155		108																	
10:30	158		123																	
10:45	178	675	118	484																
11:00	176		126																	
11:15	175		125																	
11:30	172		90																	
11:45	175	698	104	445																
Total	4886		8082																	
Percent			100.0		0.0%		0.0%													
			%																	
Day Total		12968																		
Peak	07:15	-	06:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	875	-	830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.919		0.939																	

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175536 D Volume
 Site Code: 6036.05

Start Time	SB												
	A.M.	P.M.											
12:00	70	199											
12:15	80	217											
12:30	88	187											
12:45	83	197	321	800									
01:00	88	232											
01:15	61	197											
01:30	71	232											
01:45	58	229	278	890									
02:00	72	188											
02:15	58	199											
02:30	25	188											
02:45	23	185	178	760									
03:00	11	190											
03:15	5	156											
03:30	9	181											
03:45	7	175	32	702									
04:00	4	178											
04:15	9	169											
04:30	13	172											
04:45	13	184	39	703									
05:00	12	211											
05:15	20	189											
05:30	28	192											
05:45	23	210	83	802									
06:00	29	226											
06:15	24	237											
06:30	30	228											
06:45	37	231	120	922									
07:00	46	219											
07:15	47	199											
07:30	64	197											
07:45	89	191	246	806									
08:00	80	207											
08:15	96	157											
08:30	116	148											
08:45	151	171	443	683									
09:00	124	162											
09:15	133	132											
09:30	152	140											
09:45	182	135	591	569									
10:00	150	118											
10:15	162	121											
10:30	166	158											
10:45	169	123	647	520									
11:00	169	115											
11:15	180	110											
11:30	184	136											
11:45	194	125	727	486									
Total	3705	8643											
Percent		100.0 %	0.0%	0.0%									
Day Total		12348											
Peak	11:00	06:00	-	-	-	-	-	-	-	-	-	-	-
Vol.	727	922	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.937	0.973											

Elm Street
 south of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



PRECISION
 D A T A
 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

175536 D Class
 Site Code: 6036.05

SB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	0	0	79	0	7	2	0	88
01:00	0	0	57	2	0	1	0	60
02:00	0	0	26	2	0	5	0	33
03:00	1	0	18	0	0	2	0	21
04:00	1	0	35	5	0	2	0	43
05:00	1	1	132	25	7	4	0	170
06:00	15	0	405	64	14	11	0	509
07:00	36	0	714	83	25	21	3	882
08:00	60	1	695	57	22	27	1	863
09:00	44	3	571	50	16	31	4	719
10:00	16	0	505	60	12	19	0	612
11:00	19	0	521	62	14	19	3	638
12 PM	9	0	570	71	13	19	0	682
13:00	20	0	506	61	15	24	1	627
14:00	12	2	581	43	16	14	1	669
15:00	18	2	606	52	18	5	1	702
16:00	20	1	612	45	16	3	2	699
17:00	25	3	673	31	16	3	1	752
18:00	39	0	670	21	16	3	0	749
19:00	18	2	645	23	14	2	0	704
20:00	14	1	491	20	10	1	0	537
21:00	13	1	440	7	9	0	0	470
22:00	3	0	332	6	8	3	0	352
23:00	5	0	178	5	8	1	0	197
Total	389	17	10062	795	276	222	17	11778
Percent	3.3%	0.1%	85.4%	6.7%	2.3%	1.9%	0.1%	0.0%
AM Peak	08:00	09:00	07:00	07:00	07:00	09:00	09:00	07:00
Vol.	60	3	714	83	25	31	4	882
PM Peak	18:00	17:00	17:00	12:00	15:00	13:00	16:00	17:00
Vol.	39	3	673	71	18	24	2	752

Elm Street
south of Davis Square
City, State: Somerville, MA
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Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	2	0	82	1	7	2	0	94
01:00	0	0	62	1	1	1	0	65
02:00	0	0	16	1	0	3	1	21
03:00	0	0	19	1	0	5	0	25
04:00	0	0	38	2	0	3	0	43
05:00	3	0	141	29	7	15	0	195
06:00	12	1	406	60	14	9	1	503
07:00	45	1	730	79	24	19	3	901
08:00	84	3	697	63	23	45	3	918
09:00	46	1	585	51	20	29	3	735
10:00	38	2	512	60	11	35	6	664
11:00	15	1	514	63	16	30	0	639
12 PM	19	1	600	64	12	17	7	720
13:00	24	1	542	63	16	22	1	669
14:00	17	5	548	49	13	14	0	646
15:00	25	2	607	53	15	7	1	710
16:00	21	4	624	40	20	8	0	717
17:00	36	1	652	37	17	6	1	750
18:00	33	1	692	22	16	3	0	767
19:00	19	3	780	17	14	1	0	834
20:00	17	1	600	17	12	1	0	648
21:00	18	3	529	8	9	0	0	567
22:00	8	1	405	12	7	2	0	435
23:00	8	0	276	4	9	2	0	299
Total	490	32	10657	797	283	279	27	12565
Percent	3.9%	0.3%	84.8%	6.3%	2.3%	2.2%	0.2%	0.0%
AM Peak	08:00	08:00	07:00	07:00	07:00	08:00	10:00	08:00
Vol.	84	3	730	79	24	45	6	918
PM Peak	17:00	14:00	19:00	12:00	16:00	13:00	12:00	19:00
Vol.	36	5	780	64	20	22	7	834

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DATA
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175536 D Class
Site Code: 6036.05

SB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	5	0	176	3	7	1	0	192
01:00	0	0	109	2	1	1	0	113
02:00	1	0	46	1	0	2	0	50
03:00	1	0	26	1	0	2	1	31
04:00	1	0	46	2	0	6	1	56
05:00	1	1	134	27	7	11	0	181
06:00	3	0	400	66	17	16	2	504
07:00	22	0	714	69	24	20	5	854
08:00	34	0	673	38	20	28	4	797
09:00	33	2	581	59	16	43	1	735
10:00	17	0	554	64	12	24	4	675
11:00	7	0	577	67	12	34	1	698
12 PM	13	0	631	59	13	18	3	737
13:00	5	0	606	64	17	14	3	709
14:00	8	1	611	56	9	16	3	704
15:00	5	1	623	43	17	9	0	698
16:00	11	0	669	36	18	6	1	741
17:00	5	1	718	34	14	2	1	775
18:00	8	0	769	32	18	3	0	830
19:00	2	0	711	17	14	0	0	744
20:00	1	0	638	17	10	1	0	667
21:00	0	0	519	16	10	3	0	548
22:00	5	0	450	16	8	5	0	484
23:00	0	0	418	11	10	6	0	445
Total	188	6	11399	800	274	271	30	12968
Percent	1.4%	0.0%	87.9%	6.2%	2.1%	2.1%	0.2%	0.0%
AM Peak	08:00	09:00	07:00	07:00	07:00	09:00	07:00	07:00
Vol.	34	2	714	69	24	43	5	854
PM Peak	12:00	14:00	18:00	13:00	16:00	12:00	12:00	18:00
Vol.	13	1	769	64	18	18	3	830

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SB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	2	0	303	6	8	2	0	321
01:00	0	0	267	6	2	3	0	278
02:00	0	0	169	6	0	3	0	178
03:00	0	0	28	2	0	1	1	32
04:00	0	0	27	8	0	4	0	39
05:00	0	0	59	8	4	12	0	83
06:00	0	0	88	18	7	6	1	120
07:00	0	0	204	22	11	7	2	246
08:00	2	0	385	30	8	17	1	443
09:00	2	0	530	37	11	9	2	591
10:00	3	0	582	43	10	8	1	647
11:00	1	0	662	46	7	10	1	727
12 PM	2	0	748	33	8	9	0	800
13:00	3	0	818	50	10	9	0	890
14:00	3	0	708	23	10	15	1	760
15:00	3	0	647	36	9	7	0	702
16:00	4	0	656	28	9	5	1	703
17:00	5	0	766	18	10	3	0	802
18:00	5	0	880	25	8	3	1	922
19:00	3	0	776	19	8	0	0	806
20:00	4	0	654	16	9	0	0	683
21:00	4	0	548	10	7	0	0	569
22:00	2	1	498	10	8	1	0	520
23:00	26	0	444	10	6	0	0	486
Total	74	1	11447	510	170	134	12	12348
Percent	0.6%	0.0%	92.7%	4.1%	1.4%	1.1%	0.1%	0.0%
AM Peak	10:00		11:00	11:00	07:00	08:00	07:00	11:00
Vol.	3		662	46	11	17	2	727
PM Peak	23:00	22:00	18:00	13:00	13:00	14:00	14:00	18:00
Vol.	26	1	880	50	10	15	1	922

Dover Street
west of Davis Square
City, State: Somerville, MA
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Email: datarequests@pdillc.com

175536 E Volume
Site Code: 6036.05

Start Time	03/29/17		Thu		Fri		Sat		Sun		Mon		Tue		Average Day	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	5	38	9	60	14	56	15	58	*	*	*	*	*	*	11	53
12:15	5	58	6	62	8	65	16	52	*	*	*	*	*	*	9	59
12:30	7	44	6	49	13	55	10	59	*	*	*	*	*	*	9	52
12:45	1	56	0	46	9	60	13	74	*	*	*	*	*	*	6	59
01:00	4	56	11	59	7	50	7	55	*	*	*	*	*	*	7	55
01:15	3	59	5	51	3	57	7	46	*	*	*	*	*	*	4	53
01:30	4	47	5	44	6	50	5	61	*	*	*	*	*	*	5	50
01:45	3	41	4	57	5	56	6	57	*	*	*	*	*	*	4	53
02:00	3	49	4	57	4	51	9	54	*	*	*	*	*	*	5	53
02:15	10	40	4	54	3	64	6	62	*	*	*	*	*	*	6	55
02:30	4	47	2	69	1	65	4	57	*	*	*	*	*	*	3	60
02:45	0	75	2	49	1	60	9	45	*	*	*	*	*	*	3	57
03:00	3	58	2	56	2	71	3	62	*	*	*	*	*	*	2	62
03:15	5	80	3	68	4	53	4	58	*	*	*	*	*	*	4	65
03:30	4	67	3	65	3	75	3	58	*	*	*	*	*	*	3	66
03:45	1	63	1	66	4	69	3	57	*	*	*	*	*	*	2	64
04:00	3	60	2	61	3	73	1	37	*	*	*	*	*	*	2	58
04:15	4	73	3	70	3	57	8	52	*	*	*	*	*	*	4	63
04:30	3	54	2	76	8	64	3	42	*	*	*	*	*	*	4	59
04:45	5	79	5	79	6	74	2	62	*	*	*	*	*	*	4	74
05:00	7	90	7	74	11	71	7	56	*	*	*	*	*	*	8	73
05:15	14	76	16	66	14	77	6	62	*	*	*	*	*	*	12	70
05:30	31	70	27	71	25	74	5	47	*	*	*	*	*	*	22	66
05:45	29	80	28	54	28	69	11	53	*	*	*	*	*	*	24	64
06:00	33	85	26	68	31	73	10	46	*	*	*	*	*	*	25	68
06:15	44	87	39	62	49	73	7	74	*	*	*	*	*	*	35	74
06:30	66	71	73	44	66	58	13	56	*	*	*	*	*	*	54	57
06:45	77	61	86	70	78	65	13	49	*	*	*	*	*	*	64	61
07:00	92	65	94	47	99	58	14	52	*	*	*	*	*	*	75	56
07:15	102	48	104	47	88	47	21	56	*	*	*	*	*	*	79	50
07:30	99	42	123	52	110	46	20	49	*	*	*	*	*	*	88	47
07:45	104	53	108	49	103	50	21	40	*	*	*	*	*	*	84	48
08:00	107	55	105	44	91	34	25	36	*	*	*	*	*	*	82	42
08:15	100	46	98	55	94	39	30	30	*	*	*	*	*	*	80	42
08:30	89	38	91	50	85	23	25	29	*	*	*	*	*	*	72	35
08:45	93	41	86	52	92	34	41	38	*	*	*	*	*	*	78	41
09:00	76	25	86	41	63	26	47	30	*	*	*	*	*	*	68	30
09:15	83	44	62	32	71	31	42	35	*	*	*	*	*	*	64	36
09:30	53	35	52	44	64	51	63	25	*	*	*	*	*	*	58	39
09:45	69	23	65	34	66	42	49	35	*	*	*	*	*	*	62	34
10:00	61	25	51	35	60	21	55	39	*	*	*	*	*	*	57	30
10:15	57	17	54	29	68	28	49	21	*	*	*	*	*	*	57	24
10:30	63	19	73	32	66	29	38	32	*	*	*	*	*	*	60	28
10:45	54	20	62	24	58	26	67	33	*	*	*	*	*	*	60	26
11:00	42	14	64	19	47	23	51	37	*	*	*	*	*	*	51	23
11:15	41	22	49	13	52	25	63	30	*	*	*	*	*	*	51	22
11:30	42	9	53	10	59	17	56	25	*	*	*	*	*	*	52	15
11:45	52	10	55	12	50	21	60	17	*	*	*	*	*	*	54	15
Total	1857	2415	1916	2428	1895	2456	1043	2240	0	0	0	0	0	0	1673	2386
Day Total	4272		4344		4351		3283		0		0		0		4059	
% Splits	43.5%	56.5%	44.1%	55.9%	43.6%	56.4%	31.8%	68.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.2%	58.8%
Peak	07:15	05:45	07:15	04:15	07:00	04:45	10:45	12:00	-	-	-	-	-	-	07:30	04:45
Vol.	412	323	440	299	400	296	237	243	-	-	-	-	-	-	334	283
P.H.F.	0.963	0.928	0.894	0.946	0.909	0.961	0.884	0.821							0.949	0.956

Dover Street
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175536 E Volume
Site Code: 6036.05

Start Time	A.M.	WB	P.M.																	
				Wed 03/29/17																
12:00	5		38																	
12:15	5		58																	
12:30	7		44																	
12:45	1	18	56	196																
01:00	4		56																	
01:15	3		59																	
01:30	4		47																	
01:45	3	14	41	203																
02:00	3		49																	
02:15	10		40																	
02:30	4		47																	
02:45	0	17	75	211																
03:00	3		58																	
03:15	5		80																	
03:30	4		67																	
03:45	1	13	63	268																
04:00	3		60																	
04:15	4		73																	
04:30	3		54																	
04:45	5	15	79	266																
05:00	7		90																	
05:15	14		76																	
05:30	31		70																	
05:45	29	81	80	316																
06:00	33		85																	
06:15	44		87																	
06:30	66		71																	
06:45	77	220	61	304																
07:00	92		65																	
07:15	102		48																	
07:30	99		42																	
07:45	104	397	53	208																
08:00	107		55																	
08:15	100		46																	
08:30	89		38																	
08:45	93	389	41	180																
09:00	76		25																	
09:15	83		44																	
09:30	53		35																	
09:45	69	281	23	127																
10:00	61		25																	
10:15	57		17																	
10:30	63		19																	
10:45	54	235	20	81																
11:00	42		14																	
11:15	41		22																	
11:30	42		9																	
11:45	52	177	10	55																
Total	1857		2415																	
Percent			100.0		0.0%		0.0%													
			%																	
Day Total		4272																		
Peak	07:15	-	05:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	412	-	323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.963		0.928																	

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Start Time	A.M.	WB	P.M.											Thu 03/30/17						
12:00	9		60																	
12:15	6		62																	
12:30	6		49																	
12:45	0	21	46	217																
01:00	11		59																	
01:15	5		51																	
01:30	5		44																	
01:45	4	25	57	211																
02:00	4		57																	
02:15	4		54																	
02:30	2		69																	
02:45	2	12	49	229																
03:00	2		56																	
03:15	3		68																	
03:30	3		65																	
03:45	1	9	66	255																
04:00	2		61																	
04:15	3		70																	
04:30	2		76																	
04:45	5	12	79	286																
05:00	7		74																	
05:15	16		66																	
05:30	27		71																	
05:45	28	78	54	265																
06:00	26		68																	
06:15	39		62																	
06:30	73		44																	
06:45	86	224	70	244																
07:00	94		47																	
07:15	104		47																	
07:30	123		52																	
07:45	108	429	49	195																
08:00	105		44																	
08:15	98		55																	
08:30	91		50																	
08:45	86	380	52	201																
09:00	86		41																	
09:15	62		32																	
09:30	52		44																	
09:45	65	265	34	151																
10:00	51		35																	
10:15	54		29																	
10:30	73		32																	
10:45	62	240	24	120																
11:00	64		19																	
11:15	49		13																	
11:30	53		10																	
11:45	55	221	12	54																
Total	1916		2428																	
Percent			100.0				0.0%				0.0%									
			%																	
Day Total		4344																		
Peak	07:15	-	04:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	440	-	299	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.894		0.946																	

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175536 E Volume
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Start Time	A.M.	WB	P.M.											Fri 03/31/17						
12:00	14		56																	
12:15	8		65																	
12:30	13		55																	
12:45	9	44	60	236																
01:00	7		50																	
01:15	3		57																	
01:30	6		50																	
01:45	5	21	56	213																
02:00	4		51																	
02:15	3		64																	
02:30	1		65																	
02:45	1	9	60	240																
03:00	2		71																	
03:15	4		53																	
03:30	3		75																	
03:45	4	13	69	268																
04:00	3		73																	
04:15	3		57																	
04:30	8		64																	
04:45	6	20	74	268																
05:00	11		71																	
05:15	14		77																	
05:30	25		74																	
05:45	28	78	69	291																
06:00	31		73																	
06:15	49		73																	
06:30	66		58																	
06:45	78	224	65	269																
07:00	99		58																	
07:15	88		47																	
07:30	110		46																	
07:45	103	400	50	201																
08:00	91		34																	
08:15	94		39																	
08:30	85		23																	
08:45	92	362	34	130																
09:00	63		26																	
09:15	71		31																	
09:30	64		51																	
09:45	66	264	42	150																
10:00	60		21																	
10:15	68		28																	
10:30	66		29																	
10:45	58	252	26	104																
11:00	47		23																	
11:15	52		25																	
11:30	59		17																	
11:45	50	208	21	86																
Total	1895		2456																	
Percent			100.0		0.0%		0.0%													
			%																	
Day Total		4351																		
Peak	07:00	-	04:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	400	-	296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.909		0.961																	

Dover Street
west of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 E Volume
Site Code: 6036.05

Start Time	A.M.	WB	P.M.											Sat						
														04/01/17						
12:00	15		58																	
12:15	16		52																	
12:30	10		59																	
12:45	13	54	74	243																
01:00	7		55																	
01:15	7		46																	
01:30	5		61																	
01:45	6	25	57	219																
02:00	9		54																	
02:15	6		62																	
02:30	4		57																	
02:45	9	28	45	218																
03:00	3		62																	
03:15	4		58																	
03:30	3		58																	
03:45	3	13	57	235																
04:00	1		37																	
04:15	8		52																	
04:30	3		42																	
04:45	2	14	62	193																
05:00	7		56																	
05:15	6		62																	
05:30	5		47																	
05:45	11	29	53	218																
06:00	10		46																	
06:15	7		74																	
06:30	13		56																	
06:45	13	43	49	225																
07:00	14		52																	
07:15	21		56																	
07:30	20		49																	
07:45	21	76	40	197																
08:00	25		36																	
08:15	30		30																	
08:30	25		29																	
08:45	41	121	38	133																
09:00	47		30																	
09:15	42		35																	
09:30	63		25																	
09:45	49	201	35	125																
10:00	55		39																	
10:15	49		21																	
10:30	38		32																	
10:45	67	209	33	125																
11:00	51		37																	
11:15	63		30																	
11:30	56		25																	
11:45	60	230	17	109																
Total	1043		2240																	
Percent			100.0				0.0%													
			%																	
Day Total		3283																		
Peak	10:45	-	12:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	237	-	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.884		0.821																	

Dover Street
west of Davis Square
City, State: Somerville, MA
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PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
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175536 E Class
Site Code: 6036.05

WB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	0	0	18	0	0	0	0	18
01:00	0	0	11	2	0	1	0	14
02:00	0	0	16	0	0	1	0	17
03:00	0	0	11	0	0	2	0	13
04:00	0	0	12	1	0	2	0	15
05:00	0	0	65	11	0	5	0	81
06:00	0	1	196	19	2	2	0	220
07:00	2	0	357	24	4	10	0	397
08:00	4	0	357	22	1	5	0	389
09:00	2	1	246	22	1	8	1	281
10:00	0	1	202	23	0	9	0	235
11:00	4	0	148	16	3	5	1	177
12 PM	0	0	169	18	2	7	0	196
13:00	1	0	177	18	1	6	0	203
14:00	0	0	186	17	2	6	0	211
15:00	1	3	240	17	4	3	0	268
16:00	1	0	250	11	1	3	0	266
17:00	7	0	297	8	0	4	0	316
18:00	3	0	294	6	0	1	0	304
19:00	3	0	194	11	0	0	0	208
20:00	2	1	173	4	0	0	0	180
21:00	1	0	121	3	1	1	0	127
22:00	1	0	75	5	0	0	0	81
23:00	0	0	54	1	0	0	0	55
Total	32	7	3869	259	22	81	2	4272
Percent	0.7%	0.2%	90.6%	6.1%	0.5%	1.9%	0.0%	0.0%
AM Peak	08:00	06:00	07:00	07:00	07:00	07:00	09:00	07:00
Vol.	4	1	357	24	4	10	1	397
PM Peak	17:00	15:00	17:00	12:00	15:00	12:00		17:00
Vol.	7	3	297	18	4	7		316

Dover Street
west of Davis Square
City, State: Somerville, MA
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175536 E Class
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WB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	0	0	21	0	0	0	0	21
01:00	0	0	24	1	0	0	0	25
02:00	0	0	10	1	0	1	0	12
03:00	0	0	6	1	0	2	0	9
04:00	0	0	11	0	0	1	0	12
05:00	0	0	65	12	0	1	0	78
06:00	1	1	194	25	1	2	0	224
07:00	6	0	380	30	4	9	0	429
08:00	6	0	344	20	0	10	0	380
09:00	4	2	238	14	0	7	0	265
10:00	4	0	219	13	1	3	0	240
11:00	0	0	193	17	2	9	0	221
12 PM	4	0	194	12	2	5	0	217
13:00	2	0	184	20	2	3	0	211
14:00	2	0	199	17	3	8	0	229
15:00	4	1	222	16	3	9	0	255
16:00	6	0	261	14	2	3	0	286
17:00	5	0	247	10	2	1	0	265
18:00	7	1	229	7	0	0	0	244
19:00	1	0	184	10	0	0	0	195
20:00	1	0	194	6	0	0	0	201
21:00	4	0	141	6	0	0	0	151
22:00	2	1	110	5	0	2	0	120
23:00	1	0	53	0	0	0	0	54
Total	60	6	3923	257	22	76	0	4344
Percent	1.4%	0.1%	90.3%	5.9%	0.5%	1.7%	0.0%	0.0%
AM Peak	07:00	09:00	07:00	07:00	07:00	08:00		07:00
Vol.	6	2	380	30	4	10		429
PM Peak	18:00	15:00	16:00	13:00	14:00	15:00		16:00
Vol.	7	1	261	20	3	9		286

Dover Street
west of Davis Square
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175536 E Class
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WB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	0	0	41	2	1	0	0	44
01:00	0	0	21	0	0	0	0	21
02:00	0	0	7	1	0	1	0	9
03:00	0	0	11	0	0	2	0	13
04:00	0	0	17	2	0	1	0	20
05:00	0	0	63	11	0	4	0	78
06:00	0	1	190	29	1	3	0	224
07:00	1	0	358	26	3	11	1	400
08:00	2	0	340	10	1	7	2	362
09:00	4	0	239	11	1	9	0	264
10:00	1	0	228	12	1	10	0	252
11:00	2	0	179	18	1	8	0	208
12 PM	1	0	221	10	0	4	0	236
13:00	1	0	179	21	5	7	0	213
14:00	0	0	213	20	4	3	0	240
15:00	3	0	247	12	1	4	1	268
16:00	0	0	253	13	0	1	1	268
17:00	1	0	277	11	0	2	0	291
18:00	2	0	260	6	0	1	0	269
19:00	0	0	192	8	1	0	0	201
20:00	0	0	127	2	0	1	0	130
21:00	0	0	142	6	0	2	0	150
22:00	1	0	96	2	0	5	0	104
23:00	0	0	84	2	0	0	0	86
Total	19	1	3985	235	20	86	5	4351
Percent	0.4%	0.0%	91.6%	5.4%	0.5%	2.0%	0.1%	0.0%
AM Peak	09:00	06:00	07:00	06:00	07:00	07:00	08:00	07:00
Vol.	4	1	358	29	3	11	2	400
PM Peak	15:00		17:00	13:00	13:00	13:00	15:00	17:00
Vol.	3		277	21	5	7	1	291

Dover Street
west of Davis Square
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175536 E Class
Site Code: 6036.05

WB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	0	0	54	0	0	0	0	54
01:00	0	0	25	0	0	0	0	25
02:00	0	0	28	0	0	0	0	28
03:00	0	0	12	0	0	1	0	13
04:00	0	0	12	1	0	1	0	14
05:00	1	0	23	4	0	1	0	29
06:00	0	0	40	3	0	0	0	43
07:00	0	0	64	9	0	3	0	76
08:00	0	0	116	4	0	1	0	121
09:00	0	0	180	16	0	5	0	201
10:00	0	0	200	4	0	4	1	209
11:00	1	0	218	6	0	5	0	230
12 PM	0	0	229	9	0	5	0	243
13:00	0	0	204	13	0	2	0	219
14:00	0	0	208	7	1	2	0	218
15:00	0	0	222	9	0	4	0	235
16:00	1	0	179	11	2	0	0	193
17:00	3	0	205	8	1	1	0	218
18:00	0	0	214	11	0	0	0	225
19:00	0	0	196	1	0	0	0	197
20:00	0	0	129	4	0	0	0	133
21:00	0	0	119	4	1	1	0	125
22:00	2	0	122	1	0	0	0	125
23:00	1	0	105	2	0	1	0	109
Total	9	0	3104	127	5	37	1	3283
Percent	0.3%	0.0%	94.5%	3.9%	0.2%	1.1%	0.0%	0.0%
AM Peak	05:00		11:00	09:00		09:00	10:00	11:00
Vol.	1		218	16		5	1	230
PM Peak	17:00		12:00	13:00	16:00	12:00		12:00
Vol.	3		229	13	2	5		243

Day Street
west of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
DATA
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 F Volume
Site Code: 6036.05

Start Time	03/29/17		Thu		Fri		Sat		Sun		Mon		Tue		Average Day	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	3	36	3	27	8	34	18	30	*	*	*	*	*	*	8	32
12:15	1	24	5	30	4	34	10	42	*	*	*	*	*	*	5	32
12:30	2	29	0	40	7	26	19	47	*	*	*	*	*	*	7	36
12:45	8	25	4	48	8	37	12	36	*	*	*	*	*	*	8	36
01:00	3	33	6	29	8	37	13	61	*	*	*	*	*	*	8	40
01:15	4	26	0	26	1	35	5	46	*	*	*	*	*	*	2	33
01:30	2	32	0	33	0	28	15	46	*	*	*	*	*	*	4	35
01:45	2	23	8	37	0	35	6	52	*	*	*	*	*	*	4	37
02:00	2	18	2	34	3	34	12	41	*	*	*	*	*	*	5	32
02:15	1	40	2	27	3	38	9	46	*	*	*	*	*	*	4	38
02:30	2	35	2	24	3	41	3	38	*	*	*	*	*	*	2	34
02:45	1	32	0	29	1	34	2	45	*	*	*	*	*	*	1	35
03:00	3	30	1	23	1	33	2	42	*	*	*	*	*	*	2	32
03:15	2	21	1	25	2	37	0	34	*	*	*	*	*	*	1	29
03:30	3	38	1	44	1	38	1	37	*	*	*	*	*	*	2	39
03:45	0	38	2	32	0	31	0	41	*	*	*	*	*	*	0	36
04:00	0	35	0	35	2	23	3	34	*	*	*	*	*	*	1	32
04:15	1	39	1	28	1	25	0	43	*	*	*	*	*	*	1	34
04:30	3	43	1	45	4	37	3	43	*	*	*	*	*	*	3	42
04:45	2	44	0	53	0	40	3	33	*	*	*	*	*	*	1	42
05:00	4	47	2	35	1	33	1	45	*	*	*	*	*	*	2	40
05:15	2	35	2	44	1	41	2	49	*	*	*	*	*	*	2	42
05:30	3	49	5	38	7	49	1	47	*	*	*	*	*	*	4	46
05:45	3	37	4	34	3	30	2	52	*	*	*	*	*	*	3	38
06:00	2	43	4	44	3	44	3	46	*	*	*	*	*	*	3	44
06:15	11	40	9	43	3	49	2	52	*	*	*	*	*	*	6	46
06:30	9	30	9	54	21	50	3	70	*	*	*	*	*	*	10	51
06:45	21	36	15	43	13	48	5	58	*	*	*	*	*	*	14	46
07:00	17	43	20	46	21	47	7	63	*	*	*	*	*	*	16	50
07:15	18	37	7	44	17	44	5	66	*	*	*	*	*	*	12	48
07:30	23	34	28	47	22	46	7	47	*	*	*	*	*	*	20	44
07:45	30	37	28	46	37	53	12	42	*	*	*	*	*	*	27	44
08:00	31	38	35	37	33	47	17	64	*	*	*	*	*	*	29	46
08:15	30	27	33	37	31	27	11	30	*	*	*	*	*	*	26	30
08:30	31	33	30	39	28	42	16	36	*	*	*	*	*	*	26	38
08:45	25	34	23	45	29	27	20	32	*	*	*	*	*	*	24	34
09:00	26	33	26	28	27	40	17	42	*	*	*	*	*	*	24	36
09:15	23	18	13	28	25	22	15	33	*	*	*	*	*	*	19	25
09:30	25	34	23	33	21	29	21	25	*	*	*	*	*	*	22	30
09:45	26	24	26	37	18	33	29	29	*	*	*	*	*	*	25	31
10:00	20	27	21	20	40	21	26	24	*	*	*	*	*	*	27	23
10:15	19	23	19	22	30	25	23	21	*	*	*	*	*	*	23	23
10:30	27	19	20	21	21	31	27	39	*	*	*	*	*	*	24	28
10:45	28	21	27	19	27	19	25	27	*	*	*	*	*	*	27	22
11:00	25	17	21	13	29	21	27	21	*	*	*	*	*	*	26	18
11:15	18	10	22	24	28	27	32	22	*	*	*	*	*	*	25	21
11:30	24	4	24	5	35	17	27	35	*	*	*	*	*	*	28	15
11:45	29	7	28	10	40	20	40	20	*	*	*	*	*	*	34	14
Total	595	1478	563	1605	668	1659	559	1974	0	0	0	0	0	0	597	1679
Day Total	2073		2168		2327		2533		0		0		0		2276	
% Splits	28.7%	71.3%	26.0%	74.0%	28.7%	71.3%	22.1%	77.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	26.2%	73.8%
Peak	07:45	04:45	07:45	06:30	11:00	06:15	11:00	06:30	-	-	-	-	-	-	11:00	06:30
Vol.	122	175	126	187	132	194	126	257	-	-	-	-	-	-	113	195
P.H.F.	0.984	0.893	0.900	0.866	0.825	0.970	0.788	0.918							0.831	0.956

Day Street
 west of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



PRECISION
 D A T A
 INDUSTRIES, LLC

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175536 F Volume
 Site Code: 6036.05

Start Time	A.M.	EB	P.M.																	
				Wed 03/29/17																
12:00	3		36																	
12:15	1		24																	
12:30	2		29																	
12:45	8	14	25	114																
01:00	3		33																	
01:15	4		26																	
01:30	2		32																	
01:45	2	11	23	114																
02:00	2		18																	
02:15	1		40																	
02:30	2		35																	
02:45	1	6	32	125																
03:00	3		30																	
03:15	2		21																	
03:30	3		38																	
03:45	0	8	38	127																
04:00	0		35																	
04:15	1		39																	
04:30	3		43																	
04:45	2	6	44	161																
05:00	4		47																	
05:15	2		35																	
05:30	3		49																	
05:45	3	12	37	168																
06:00	2		43																	
06:15	11		40																	
06:30	9		30																	
06:45	21	43	36	149																
07:00	17		43																	
07:15	18		37																	
07:30	23		34																	
07:45	30	88	37	151																
08:00	31		38																	
08:15	30		27																	
08:30	31		33																	
08:45	25	117	34	132																
09:00	26		33																	
09:15	23		18																	
09:30	25		34																	
09:45	26	100	24	109																
10:00	20		27																	
10:15	19		23																	
10:30	27		19																	
10:45	28	94	21	90																
11:00	25		17																	
11:15	18		10																	
11:30	24		4																	
11:45	29	96	7	38																
Total	595		1478																	
Percent			100.0			0.0%		0.0%												
			%																	
Day Total		2073																		
Peak	07:45	-	04:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	122	-	175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.984		0.893																	

Day Street
west of Davis Square
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175536 F Volume
Site Code: 6036.05

Start Time	A.M.	EB	P.M.											Thu 03/30/17						
12:00	3		27																	
12:15	5		30																	
12:30	0		40																	
12:45	4	12	48	145																
01:00	6		29																	
01:15	0		26																	
01:30	0		33																	
01:45	8	14	37	125																
02:00	2		34																	
02:15	2		27																	
02:30	2		24																	
02:45	0	6	29	114																
03:00	1		23																	
03:15	1		25																	
03:30	1		44																	
03:45	2	5	32	124																
04:00	0		35																	
04:15	1		28																	
04:30	1		45																	
04:45	0	2	53	161																
05:00	2		35																	
05:15	2		44																	
05:30	5		38																	
05:45	4	13	34	151																
06:00	4		44																	
06:15	9		43																	
06:30	9		54																	
06:45	15	37	43	184																
07:00	20		46																	
07:15	7		44																	
07:30	28		47																	
07:45	28	83	46	183																
08:00	35		37																	
08:15	33		37																	
08:30	30		39																	
08:45	23	121	45	158																
09:00	26		28																	
09:15	13		28																	
09:30	23		33																	
09:45	26	88	37	126																
10:00	21		20																	
10:15	19		22																	
10:30	20		21																	
10:45	27	87	19	82																
11:00	21		13																	
11:15	22		24																	
11:30	24		5																	
11:45	28	95	10	52																
Total	563		1605																	
Percent			100.0		0.0%		0.0%													
			%																	
Day Total		2168																		
Peak	07:45	-	06:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	126	-	187	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.900		0.866																	

Day Street
 west of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

175536 F Volume
 Site Code: 6036.05

Start Time	A.M.	EB	P.M.											Fri						
														03/31/17						
12:00	8		34																	
12:15	4		34																	
12:30	7		26																	
12:45	8	27	37	131																
01:00	8		37																	
01:15	1		35																	
01:30	0		28																	
01:45	0	9	35	135																
02:00	3		34																	
02:15	3		38																	
02:30	3		41																	
02:45	1	10	34	147																
03:00	1		33																	
03:15	2		37																	
03:30	1		38																	
03:45	0	4	31	139																
04:00	2		23																	
04:15	1		25																	
04:30	4		37																	
04:45	0	7	40	125																
05:00	1		33																	
05:15	1		41																	
05:30	7		49																	
05:45	3	12	30	153																
06:00	3		44																	
06:15	3		49																	
06:30	21		50																	
06:45	13	40	48	191																
07:00	21		47																	
07:15	17		44																	
07:30	22		46																	
07:45	37	97	53	190																
08:00	33		47																	
08:15	31		27																	
08:30	28		42																	
08:45	29	121	27	143																
09:00	27		40																	
09:15	25		22																	
09:30	21		29																	
09:45	18	91	33	124																
10:00	40		21																	
10:15	30		25																	
10:30	21		31																	
10:45	27	118	19	96																
11:00	29		21																	
11:15	28		27																	
11:30	35		17																	
11:45	40	132	20	85																
Total	668		1659																	
Percent			100.0		0.0%		0.0%													
			%																	
Day Total		2327																		
Peak	11:00	-	06:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	132	-	194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.825		0.970																	

Day Street
west of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 F Volume
Site Code: 6036.05

Start Time	A.M.	EB	P.M.											Sat						
														04/01/17						
12:00	18		30																	
12:15	10		42																	
12:30	19		47																	
12:45	12	59	36	155																
01:00	13		61																	
01:15	5		46																	
01:30	15		46																	
01:45	6	39	52	205																
02:00	12		41																	
02:15	9		46																	
02:30	3		38																	
02:45	2	26	45	170																
03:00	2		42																	
03:15	0		34																	
03:30	1		37																	
03:45	0	3	41	154																
04:00	3		34																	
04:15	0		43																	
04:30	3		43																	
04:45	3	9	33	153																
05:00	1		45																	
05:15	2		49																	
05:30	1		47																	
05:45	2	6	52	193																
06:00	3		46																	
06:15	2		52																	
06:30	3		70																	
06:45	5	13	58	226																
07:00	7		63																	
07:15	5		66																	
07:30	7		47																	
07:45	12	31	42	218																
08:00	17		64																	
08:15	11		30																	
08:30	16		36																	
08:45	20	64	32	162																
09:00	17		42																	
09:15	15		33																	
09:30	21		25																	
09:45	29	82	29	129																
10:00	26		24																	
10:15	23		21																	
10:30	27		39																	
10:45	25	101	27	111																
11:00	27		21																	
11:15	32		22																	
11:30	27		35																	
11:45	40	126	20	98																
Total	559		1974																	
Percent			100.0			0.0%			0.0%											
			%																	
Day Total		2533																		
Peak	11:00	-	06:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vol.	126	-	257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P.H.F.	0.788		0.918																	

Day Street
west of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 F Class
Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/29/17	0	0	14	0	0	0	0	14
01:00	0	0	10	0	0	1	0	11
02:00	0	0	4	1	0	1	0	6
03:00	1	0	6	0	0	1	0	8
04:00	0	0	6	0	0	0	0	6
05:00	0	0	9	1	0	2	0	12
06:00	0	0	39	3	0	1	0	43
07:00	1	0	77	3	0	7	0	88
08:00	2	0	99	8	0	8	0	117
09:00	0	0	84	7	0	9	0	100
10:00	1	0	77	13	0	3	0	94
11:00	0	0	81	11	0	4	0	96
12 PM	2	0	94	12	0	6	0	114
13:00	1	0	91	18	0	4	0	114
14:00	1	0	113	6	0	4	1	125
15:00	1	1	111	13	0	1	0	127
16:00	1	0	148	12	0	0	0	161
17:00	4	2	158	3	0	1	0	168
18:00	1	0	144	3	0	1	0	149
19:00	1	0	143	6	0	1	0	151
20:00	3	0	124	5	0	0	0	132
21:00	2	0	105	2	0	0	0	109
22:00	2	0	87	0	0	1	0	90
23:00	0	0	37	1	0	0	0	38
Total	24	3	1861	128	0	56	1	2073
Percent	1.2%	0.1%	89.8%	6.2%	0.0%	2.7%	0.0%	0.0%
AM Peak	08:00		08:00	10:00		09:00		08:00
Vol.	2		99	13		9		117
PM Peak	17:00	17:00	17:00	13:00		12:00	14:00	17:00
Vol.	4	2	158	18		6	1	168

Day Street
 west of Davis Square
 City, State: Somerville, MA
 Client: Toole Design/ W. Huang



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 INDUSTRIES, LLC

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 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

175536 F Class
 Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/30/17	0	0	12	0	0	0	0	12
01:00	0	0	14	0	0	0	0	14
02:00	0	0	3	2	0	1	0	6
03:00	0	0	4	0	0	1	0	5
04:00	0	0	2	0	0	0	0	2
05:00	0	0	10	1	0	2	0	13
06:00	0	0	35	1	0	1	0	37
07:00	0	0	77	4	0	2	0	83
08:00	5	0	94	8	0	12	2	121
09:00	1	0	76	5	0	6	0	88
10:00	1	2	73	5	2	4	0	87
11:00	0	0	77	12	0	6	0	95
12 PM	3	0	130	6	2	2	2	145
13:00	2	0	100	14	0	9	0	125
14:00	4	0	99	6	0	5	0	114
15:00	4	0	108	10	1	1	0	124
16:00	3	1	143	12	0	2	0	161
17:00	3	0	131	12	1	4	0	151
18:00	2	0	178	4	0	0	0	184
19:00	3	1	175	4	0	0	0	183
20:00	3	1	152	2	0	0	0	158
21:00	1	1	121	3	0	0	0	126
22:00	2	1	77	1	0	1	0	82
23:00	1	0	51	0	0	0	0	52
Total	38	7	1942	112	6	59	4	2168
Percent	1.8%	0.3%	89.6%	5.2%	0.3%	2.7%	0.2%	0.0%
AM Peak	08:00	10:00	08:00	11:00	10:00	08:00	08:00	08:00
Vol.	5	2	94	12	2	12	2	121
PM Peak	14:00	16:00	18:00	13:00	12:00	13:00	12:00	18:00
Vol.	4	1	178	14	2	9	2	184

Day Street
west of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



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175536 F Class
Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
03/31/17	0	0	26	1	0	0	0	27
01:00	0	0	8	1	0	0	0	9
02:00	0	0	9	0	0	1	0	10
03:00	0	0	4	0	0	0	0	4
04:00	0	0	5	1	0	1	0	7
05:00	0	0	7	2	0	3	0	12
06:00	1	0	34	4	0	1	0	40
07:00	0	0	79	11	0	5	2	97
08:00	4	0	106	4	0	4	3	121
09:00	0	0	75	4	1	11	0	91
10:00	1	0	100	8	0	7	2	118
11:00	1	0	105	15	2	9	0	132
12 PM	0	0	118	10	0	2	1	131
13:00	0	0	119	12	1	3	0	135
14:00	1	0	128	14	0	3	1	147
15:00	1	0	130	4	0	4	0	139
16:00	2	0	113	6	1	3	0	125
17:00	1	0	144	7	0	1	0	153
18:00	3	0	182	6	0	0	0	191
19:00	0	0	186	4	0	0	0	190
20:00	1	0	137	5	0	0	0	143
21:00	0	0	120	4	0	0	0	124
22:00	0	0	91	4	0	1	0	96
23:00	0	0	81	4	0	0	0	85
Total	16	0	2107	131	5	59	9	2327
Percent	0.7%	0.0%	90.5%	5.6%	0.2%	2.5%	0.4%	0.0%
AM Peak	08:00		08:00	11:00	11:00	09:00	08:00	11:00
Vol.	4		106	15	2	11	3	132
PM Peak	18:00		19:00	14:00	13:00	15:00	12:00	18:00
Vol.	3		186	14	1	4	1	191

Day Street
west of Davis Square
City, State: Somerville, MA
Client: Toole Design/ W. Huang



PRECISION
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INDUSTRIES, LLC

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Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

175536 F Class
Site Code: 6036.05

EB

Start Time	Bicycles	Motorcycles	Cars	Light Trucks	Buses	Single Unit Heavy	Articulated Trucks	Total
04/01/17	0	0	58	1	0	0	0	59
01:00	0	0	38	1	0	0	0	39
02:00	0	0	25	1	0	0	0	26
03:00	0	0	3	0	0	0	0	3
04:00	0	0	5	4	0	0	0	9
05:00	0	0	3	0	0	3	0	6
06:00	0	0	10	1	0	1	1	13
07:00	0	0	27	1	0	3	0	31
08:00	1	0	53	4	0	4	2	64
09:00	0	0	72	5	0	5	0	82
10:00	0	0	98	3	0	0	0	101
11:00	0	0	115	3	0	1	0	126
12 PM	0	0	151	4	0	0	0	155
13:00	1	0	193	9	0	2	0	205
14:00	0	0	165	4	0	1	0	170
15:00	0	0	148	4	0	2	0	154
16:00	0	0	145	8	0	0	0	153
17:00	0	0	190	2	0	1	0	193
18:00	0	0	221	5	0	0	0	226
19:00	0	0	215	3	0	0	0	218
20:00	0	0	161	1	0	0	0	162
21:00	0	0	128	1	0	0	0	129
22:00	0	0	110	1	0	0	0	111
23:00	0	0	96	2	0	0	0	98
Total	2	0	2430	75	0	23	3	2533
Percent	0.1%	0.0%	95.9%	3.0%	0.0%	0.9%	0.1%	0.0%
AM Peak	08:00		11:00	11:00		09:00	08:00	11:00
Vol.	1		115	10		5	2	126
PM Peak	13:00		18:00	13:00		13:00		18:00
Vol.	1		221	9		2		226



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 A
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 7:00 AM
End Time: 9:00 AM
Class:

Cars, Heavy Vehicles, and Buses (Combined)

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (7:00 AM to 8:45 AM), Grand Total, and various vehicle types (Cars, Heavy Vehicles, Buses).

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (7:30 AM to 8:15 AM), Total Volume, PHF, and various vehicle types (Cars, Heavy Vehicles, Buses).



PRECISION
DATA
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 A
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 7:00 AM
End Time: 9:00 AM
Class:

Cars

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (7:00 AM to 8:45 AM), Total, Grand Total, Approach %, Total %, and Exiting Leg Total.

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (7:15 AM to 8:00 AM), Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, and Total.



PRECISION
DATA
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 A
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 7:00 AM
End Time: 9:00 AM
Class:

Heavy Vehicles

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and direction (North, East, Southeast, South, Southwest, West). Rows include time intervals (7:00 AM to 8:45 AM) and summary rows (Total, Grand Total, Approach %, Total %, Exiting Leg Total).

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and direction (North, East, Southeast, South, Southwest, West). Rows include time intervals (8:00 AM to 8:45 AM) and summary rows (Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, Total).



PRECISION
DATA
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 A
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 7:00 AM
End Time: 9:00 AM
Class:

Buses

	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	2	0	0	0	2	1	1	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
7:15 AM	0	0	6	0	0	0	6	2	0	0	4	0	0	6	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14					
7:30 AM	0	0	1	0	0	0	1	2	0	0	2	0	0	4	1	2	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9						
7:45 AM	0	0	3	0	0	0	3	2	0	0	4	0	0	6	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10						
Total	0	0	12	0	0	0	12	7	1	0	12	0	0	20	2	3	2	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39							
8:00 AM	0	0	2	0	0	0	2	3	0	0	3	0	0	6	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9							
8:15 AM	0	0	3	0	0	0	3	2	0	0	3	0	0	5	1	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11							
8:30 AM	0	0	3	0	0	0	3	3	0	0	4	0	0	7	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11							
8:45 AM	0	0	2	0	0	0	2	4	0	0	1	0	0	5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8							
Total	0	0	10	0	0	0	10	12	0	0	11	0	0	23	3	2	1	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39							
Grand Total	0	0	22	0	0	0	22	19	1	0	23	0	0	43	5	5	3	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78							
Approach %	0.0	0.0	100.0	0.0	0.0	0.0		44.2	2.3	0.0	53.5	0.0	0.0		38.5	38.5	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
Total %	0.0	0.0	28.2	0.0	0.0	0.0	28.2	24.4	1.3	0.0	29.5	0.0	0.0	55.1	6.4	6.4	3.8	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
Exiting Leg Total	24							5							0							45							0							4							78

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
7:15 AM	0	0	6	0	0	0	6	2	0	0	4	0	0	6	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14							
7:30 AM	0	0	1	0	0	0	1	2	0	0	2	0	0	4	1	2	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9							
7:45 AM	0	0	3	0	0	0	3	2	0	0	4	0	0	6	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10								
8:00 AM	0	0	2	0	0	0	2	3	0	0	3	0	0	6	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9								
Total Volume	0	0	12	0	0	0	12	9	0	0	13	0	0	22	2	4	2	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42								
% Approach Total	0.0	0.0	100.0	0.0	0.0	0.0		40.9	0.0	0.0	59.1	0.0	0.0		25.0	50.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
PHF	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.750	0.000	0.000	0.813	0.000	0.000	0.917	0.500	0.500	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750									
Entering Leg	0	0	12	0	0	0	12	9	0	0	13	0	0	22	2	4	2	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42								
Exiting Leg	13							2							0							25							0							2							42
Total	25							24							8							25							0							2							84



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 A
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 7:00 AM
End Time: 9:00 AM
Class:

Pedestrians

Table with columns for Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, and Major Crosswalk. Rows include time intervals from 7:00 AM to 8:45 AM, Total, Grand Total, Approach %, Total %, and Exiting Leg Total.

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

Table with columns for Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, and Major Crosswalk. Rows include time intervals from 8:00 AM to 8:45 AM, Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, and Total.

NW Crosswalk is the Major Crosswalk in SE corner between Highland Ave and Elm Street



PRECISION
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PDI File #: 175536 AA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Cars, Heavy Vehicles, and Buses (Combined)

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (11:00 AM to 1:45 PM) and summary rows (Grand Total, Approach %, Total %, Exiting Leg Total, Cars, Heavy Vehicles, Buses).

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (12:00 PM to 12:45 PM) and summary rows (Total Volume, % Approach Total, PHF, Cars, Heavy Vehicles, Buses, Cars Enter Leg, Heavy Enter Leg, Bus Enter Leg, Total Entering Leg).



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
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PDI File #: 175536 AA
 Location: N: Elm Street S: Elm Street NW: Major Crosswalk
 Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Thursday, March 30, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:

Cars, Heavy Vehicles, and Buses (Combined)

	Elm Street							College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street						Total			
	North							East						Southeast						South						Southwest						West									
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right		Bear Right	Thru	Left
Cars Exiting Leg	251							238						0						669						0						207						1365			
Heavy Exiting Leg	9							6						0						23						0						5						43			
Buses Exiting Leg	7							1						0						12						0						2						22			
Total Exiting Leg	267							245						0						704						0						214						1430			



PRECISION
D A T A
INDUSTRIES, LLC

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PDI File #: 175536 AA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Cars

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, West. Rows include time intervals (11:00 AM to 1:45 PM) and summary rows (Grand Total, Approach %, Total %, Exiting Leg Total).

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, West. Rows include time intervals (12:00 PM to 12:45 PM) and summary rows (Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, Total).



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
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PDI File #: 175536 AA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Heavy Vehicles

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, West. Rows include time intervals (11:00 AM to 1:45 PM) and summary rows (Grand Total, Approach %, Total %, Exiting Leg Total).

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, West. Rows include time intervals (11:00 AM to 11:45 AM) and summary rows (Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, Total).



**PRECISION
D A T A
INDUSTRIES, LLC**

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: **175536 AA**
Location: **N: Elm Street S: Elm Street NW: Major Crosswalk**
Location: **E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street**
City, State: **Somerville, MA**
Client: **Toole Design/ W. Haung**
Site Code: **6036.05**
Count Date: **Thursday, March 30, 2017**
Start Time: **11:00 AM**
End Time: **2:00 PM**
Class:

Buses

	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	2	0	0	0	2	3	0	0	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7					
11:15 AM	0	0	1	0	0	0	1	2	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4						
11:30 AM	0	0	2	0	0	0	2	1	1	0	1	0	0	3	1	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8						
11:45 AM	0	0	3	0	0	0	3	2	1	0	3	0	0	6	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10						
Total	0	0	8	0	0	0	8	8	2	0	7	0	0	17	1	3	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29							
12:00 PM	0	0	2	0	0	0	2	1	1	0	1	0	0	3	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6							
12:15 PM	0	0	1	0	0	0	1	3	0	0	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6							
12:30 PM	0	0	1	0	0	0	1	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	5							
12:45 PM	0	0	0	0	0	0	0	1	0	0	2	0	0	3	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5							
Total	0	0	4	0	0	0	4	6	1	0	6	0	0	13	1	1	1	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	22							
1:00 PM	0	0	2	0	0	0	2	3	1	0	1	0	0	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8							
1:15 PM	0	0	1	0	0	0	1	2	0	0	3	0	0	5	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9							
1:30 PM	0	0	4	0	0	0	4	0	0	0	1	0	0	1	0	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8							
1:45 PM	0	0	2	0	0	0	2	1	0	0	2	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8							
Total	0	0	9	0	0	0	9	6	1	0	7	0	0	14	1	8	1	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33							
Grand Total	0	0	21	0	0	0	21	20	4	0	20	0	0	44	3	12	2	0	0	0	17	0	0	0	0	0	2	0	0	0	0	0	0	0	84								
Approach %	0.0	0.0	100.0	0.0	0.0	0.0		45.5	9.1	0.0	45.5	0.0	0.0		17.6	70.6	11.8	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
Total %	0.0	0.0	25.0	0.0	0.0	0.0	25.0	23.8	4.8	0.0	23.8	0.0	0.0	52.4	3.6	14.3	2.4	0.0	0.0	0.0	20.2	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
Exiting Leg Total	32							3							0							43							0							6							84

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

1:00 PM	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
1:00 PM	0	0	2	0	0	0	2	3	1	0	1	0	0	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8							
1:15 PM	0	0	1	0	0	0	1	2	0	0	3	0	0	5	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9							
1:30 PM	0	0	4	0	0	0	4	0	0	0	1	0	0	1	0	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8							
1:45 PM	0	0	2	0	0	0	2	1	0	0	2	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8							
Total Volume	0	0	9	0	0	0	9	6	1	0	7	0	0	14	1	8	1	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33							
% Approach Total	0.0	0.0	100.0	0.0	0.0	0.0		42.9	7.1	0.0	50.0	0.0	0.0		10.0	80.0	10.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
PHF	0.000	0.000	0.563	0.000	0.000	0.000	0.563	0.500	0.250	0.000	0.583	0.000	0.000	0.700	0.250	0.667	0.250	0.000	0.000	0.000	0.833	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.917								
Entering Leg	0	0	9	0	0	0	9	6	1	0	7	0	0	14	1	8	1	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33							
Exiting Leg	14							1							0							16							0							2							33
Total	23							15							10							16							0							2							66



PRECISION
DATA
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
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PDI File #: 175536 AA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Bicycles (on Roadway and Crosswalks)

Table with columns for street names (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, Major Crosswalk) and sub-columns for directions (North, East, Southeast, South, Southwest, West, Northwest) and various movement types (Right, Thru, Bear Left, Left, U-Turn, CW/EB, CW/SB, CW/NS, CW/SE). Rows include time intervals from 11:00 AM to 1:45 PM, Grand Total, Approach %, Total %, and Exiting Leg Total.

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table with columns for street names (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, Major Crosswalk) and sub-columns for directions (North, East, Southeast, South, Southwest, West, Northwest) and various movement types. Rows include time intervals (12:00 PM, 12:15 PM, 12:30 PM, 12:45 PM), Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, and Total.



PRECISION
D A T A
INDUSTRIES, LLC

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PDI File #: 175536 AA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Pedestrians

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, Major Crosswalk) and rows for time intervals (11:00 AM to 1:45 PM, Grand Total, Approach %, Total %, Exiting Leg Total). Each cell contains pedestrian counts for various directions and movements.

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table showing peak hour analysis for 12:15 PM, 12:30 PM, 12:45 PM, and 1:00 PM. Columns include Street, Direction, and Movement. Rows show counts for entering and exiting legs, and a total row.



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PDI File #: 175536 AAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 4:00 PM
End Time: 6:00 PM
Class:

Cars, Heavy Vehicles, and Buses (Combined)

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North/South and East/West directions. Rows include time intervals (4:00 PM to 5:45 PM), Grand Total, and Approach/Total percentages.

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

Table showing Peak Hour Analysis for 4:45 PM. Columns are the same as the main table. Rows include 4:45 PM, 5:00 PM, 5:15 PM, 5:30 PM, Total Volume, PHF, and various vehicle types (Cars, Heavy Vehicles, Buses) with their respective counts and percentages.



PRECISION
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PDI File #: 175536 AAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 4:00 PM
End Time: 6:00 PM
Class:

Cars

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and movement types (North, East, Southeast, South, Southwest, West). Rows include time intervals (4:00 PM to 5:45 PM) and Grand Total, Approach %, Total %, and Exiting Leg Total.

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

Table for Peak Hour Analysis from 04:00 PM to 06:00 PM. Columns and structure are identical to the main table above, showing detailed traffic counts and percentages for the peak period.



PRECISION
D A T A
INDUSTRIES, LLC

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PDI File #: 175536 AAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 4:00 PM
End Time: 6:00 PM
Class:

Heavy Vehicles

	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	2	1	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	1	1	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
4:45 PM	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
Total	0	0	2	0	0	0	2	0	1	0	3	0	0	4	1	5	3	0	1	0	10	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	18
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
5:15 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Total	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1	1	0	0	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	9
Grand Total	0	0	3	0	0	0	3	0	1	0	3	0	0	4	3	6	4	0	1	0	14	0	0	0	0	0	0	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	27
Approach %	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	75.0	0.0	0.0	21.4	42.9	28.6	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total %	0.0	0.0	11.1	0.0	0.0	0.0	11.1	0.0	3.7	0.0	11.1	0.0	0.0	11.1	22.2	14.8	0.0	3.7	0.0	51.9	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total	6							3							0							13							0							5							27

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	2	1	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	1	1	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
4:45 PM	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4
Total Volume	0	0	2	0	0	0	2	0	1	0	3	0	0	4	1	5	3	0	1	0	10	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	18
% Approach Total	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	75.0	0.0	0.0	10.0	50.0	30.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.375	0.000	0.000	0.500	0.250	0.625	0.750	0.000	0.250	0.000	0.625	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750		
Entering Leg	0	0	2	0	0	0	2	0	1	0	3	0	0	4	1	5	3	0	1	0	10	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	18	
Exiting Leg	5							1							0							8							0							4							
Total	7							5							10							8							2							4							36



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAA
 Location: N: Elm Street S: Elm Street NW: Major Crosswalk
 Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
 City, State: Somerville, MA
 Client: Toole Design/ W. Haug
 Site Code: 6036.05
 Count Date: Thursday, March 30, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:

Buses

	Elm Street								College Avenue								Highland Avenue								Elm Street								Day Street								Dover Street								Total					
	North								East								Southeast								South								Southwest								West													
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	Total											
4:00 PM	0	0	1	0	0	0	1	2	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
4:15 PM	0	0	3	0	0	0	3	2	0	0	2	0	0	4	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9				
4:30 PM	1	0	2	0	0	0	3	3	0	0	4	0	0	7	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12				
4:45 PM	0	0	2	0	0	0	2	1	0	0	2	0	0	3	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
Total	1	0	8	0	0	0	9	8	0	0	11	0	0	19	1	1	1	0	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33				
5:00 PM	0	0	0	0	0	0	0	2	0	0	2	0	0	4	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5				
5:15 PM	0	0	3	0	0	0	3	2	0	0	5	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10				
5:30 PM	0	0	2	0	0	0	2	1	0	0	2	0	0	3	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7				
5:45 PM	0	0	0	0	0	0	0	3	0	0	3	0	0	6	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	8				
Total	0	0	5	0	0	0	5	8	0	0	12	0	0	20	1	0	2	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	30				
Grand Total	1	0	13	0	0	0	14	16	0	0	23	0	0	39	2	1	3	0	3	0	9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	63				
Approach %	7.1	0.0	92.9	0.0	0.0	0.0		41.0	0.0	0.0	59.0	0.0	0.0		22.2	11.1	33.3	0.0	33.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total %	1.6	0.0	20.6	0.0	0.0	0.0	22.2	25.4	0.0	0.0	36.5	0.0	0.0	61.9	3.2	1.6	4.8	0.0	4.8	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	4	63			
Exiting Leg Total	17							2							0							40							0							4																		

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Elm Street								College Avenue								Highland Avenue								Elm Street								Day Street								Dover Street								Total					
	North								East								Southeast								South								Southwest								West													
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	Total											
4:00 PM	0	0	1	0	0	0	1	2	0	0	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
4:15 PM	0	0	3	0	0	0	3	2	0	0	2	0	0	4	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9				
4:30 PM	1	0	2	0	0	0	3	3	0	0	4	0	0	7	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12				
4:45 PM	0	0	2	0	0	0	2	1	0	0	2	0	0	3	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
Total Volume	1	0	8	0	0	0	9	8	0	0	11	0	0	19	1	1	1	0	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33				
% Approach Total	11.1	0.0	88.9	0.0	0.0	0.0		42.1	0.0	0.0	57.9	0.0	0.0		20.0	20.0	20.0	0.0	40.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.688
PHF	0.250	0.000	0.667	0.000	0.000	0.000	0.750	0.667	0.000	0.000	0.688	0.000	0.000	0.679	0.250	0.250	0.250	0.000	0.500	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.688				
Entering Leg	1	0	8	0	0	0	9	8	0	0	11	0	0	19	1	1	1	0	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33				
Exiting Leg	9							1							0							21							0							2																		
Total	18							20							5							21							0							2																		



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 4:00 PM
End Time: 6:00 PM
Class:

Bicycles (on Roadway and Crosswalks)

Table with 17 columns: Street Name, Direction (North/South/East/West), and various movement categories (Right, Thru, Left, U-Turn, CW/CCW, etc.). Rows include time intervals (4:00 PM to 5:45 PM), Total, Grand Total, and % Approach.

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

Table with 17 columns: Street Name, Direction (North/South/East/West), and various movement categories (Right, Thru, Left, U-Turn, CW/CCW, etc.). Rows include 5:00 PM, 5:15 PM, 5:30 PM, 5:45 PM, Total Volume, PHF, Entering/Exiting Leg, and Total.



PRECISION DATA INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Thursday, March 30, 2017
Start Time: 4:00 PM
End Time: 6:00 PM
Class:

Pedestrians

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, Major Crosswalk) and rows for time intervals (4:00 PM, 4:15 PM, 4:30 PM, 4:45 PM, Total, 5:00 PM, 5:15 PM, 5:30 PM, 5:45 PM, Total, Grand Total, Approach %, Total %, Exiting Leg Total). Each cell contains pedestrian counts for various directions and movements.

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, Major Crosswalk) and rows for time intervals (5:00 PM, 5:15 PM, 5:30 PM, 5:45 PM, Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, Total). Each cell contains pedestrian counts for various directions and movements.



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Saturday, April 1, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Cars, Heavy Vehicles, and Buses (Combined)

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (11:00 AM to 1:45 PM) and summary rows (Grand Total, Approach %, Total %, Exiting Leg Total, Cars, Heavy Vehicles, Buses).

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, and West. Rows include time intervals (1:00 PM to 1:45 PM) and summary rows (Total Volume, % Approach Total, PHF, Cars, Heavy Vehicles, Buses, Cars Enter Leg, Heavy Enter Leg, Bus Enter Leg, Total Entering Leg).



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAAA
 Location: N: Elm Street S: Elm Street NW: Major Crosswalk
 Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Saturday, April 1, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:

Cars, Heavy Vehicles, and Buses (Combined)

	Elm Street							College Avenue						Highland Avenue						Elm Street						Day Street						Dover Street						Total			
	North							East						Southeast						South						Southwest						West									
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right		Bear Right	Thru	Left
Cars Exiting Leg	249							267						0						859						0						219						1594			
Heavy Exiting Leg	3							0						0						7						0						3						13			
Buses Exiting Leg	8							0						0						11						0						0						19			
Total Exiting Leg	260							267						0						877						0						222						1626			



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
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PDI File #: 175536 AAAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Saturday, April 1, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Cars

	Elm Street								College Avenue								Highland Avenue								Elm Street								Day Street								Dover Street								Total
	North								East								Southeast								South								Southwest								West								
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total		Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total		Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total		Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total		Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total		Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total		
11:00 AM	10	0	48	0	0	0	58	10	14	0	52	0	0	76	67	55	31	0	33	0	186	0	0	0	0	0	0	28	0	0	0	0	0	28	0	0	0	0	0	0	348								
11:15 AM	9	0	43	0	0	0	52	5	15	0	54	0	0	74	54	67	37	0	41	0	199	0	0	0	0	0	0	32	0	0	0	0	0	32	0	0	0	0	0	0	357								
11:30 AM	8	0	53	0	0	0	61	3	20	0	46	0	0	69	59	63	31	0	56	0	209	0	0	0	0	0	0	27	0	0	0	0	0	27	0	0	0	0	0	0	366								
11:45 AM	9	0	57	0	0	0	66	10	26	0	49	0	0	85	59	57	25	0	47	0	188	0	0	0	0	0	0	36	0	0	0	0	0	36	0	0	0	0	0	0	375								
Total	36	0	201	0	0	0	237	28	75	0	201	0	0	304	239	242	124	0	177	0	782	0	0	0	0	0	0	123	0	0	0	0	0	123	0	0	0	0	0	0	1446								
12:00 PM	10	0	57	0	0	0	67	10	22	0	47	0	0	79	63	66	27	0	59	0	215	0	0	0	0	0	0	32	0	0	0	0	0	32	0	0	0	0	0	0	393								
12:15 PM	10	0	61	0	0	0	71	5	11	0	56	0	0	72	70	78	28	0	49	0	225	0	0	0	0	0	0	42	0	0	0	0	0	42	0	0	0	0	0	0	410								
12:30 PM	11	0	53	0	0	0	64	12	18	0	35	0	0	65	47	60	30	0	49	0	186	0	0	0	0	0	0	40	0	0	0	0	0	40	0	0	0	0	0	0	355								
12:45 PM	9	0	57	0	0	0	66	5	17	0	46	0	0	68	57	58	41	0	49	0	205	0	0	0	0	0	0	42	0	0	0	0	0	42	0	0	0	0	0	0	381								
Total	40	0	228	0	0	0	268	32	68	0	184	0	0	284	237	262	126	0	206	0	831	0	0	0	0	0	0	156	0	0	0	0	0	156	0	0	0	0	0	0	1539								
1:00 PM	8	0	59	0	1	0	68	1	18	0	55	0	0	74	74	61	26	0	57	0	218	0	0	0	0	0	0	51	0	0	0	0	0	51	0	0	0	0	0	0	411								
1:15 PM	7	0	69	0	0	0	76	7	14	0	42	0	0	63	62	51	26	0	42	0	181	0	0	0	0	0	0	42	0	0	0	0	0	42	0	0	0	0	0	0	362								
1:30 PM	10	0	58	0	0	0	68	4	22	0	42	0	0	68	65	51	31	0	75	0	222	0	0	0	0	0	0	46	0	0	0	0	0	46	0	0	0	0	0	0	404								
1:45 PM	10	0	58	0	0	0	68	8	16	0	50	0	0	74	65	66	31	0	59	0	221	0	0	0	0	0	0	54	0	0	0	0	0	54	0	0	0	0	0	0	417								
Total	35	0	244	0	1	0	280	20	70	0	189	0	0	279	266	229	114	0	233	0	842	0	0	0	0	0	0	193	0	0	0	0	0	193	0	0	0	0	0	0	1594								
Grand Total	111	0	673	0	1	0	785	80	213	0	574	0	0	867	742	733	364	0	616	0	2455	0	0	0	0	0	0	472	0	0	0	0	0	472	0	0	0	0	0	0	4579								
Approach %	14.1	0.0	85.7	0.0	0.1	0.0		9.2	24.6	0.0	66.2	0.0	0.0		30.2	29.9	14.8	0.0	25.1	0.0		0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
Total %	2.4	0.0	14.7	0.0	0.0	0.0	17.1	1.7	4.7	0.0	12.5	0.0	0.0	18.9	16.2	16.0	7.9	0.0	13.5	0.0	53.6	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0										
Exiting Leg Total	813							743							0							2335							0							688	4579												

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street								College Avenue								Highland Avenue								Elm Street								Day Street								Dover Street								Total
	North								East								Southeast								South								Southwest								West								
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total		Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total		Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total		Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total		Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total		Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total		
1:00 PM	8	0	59	0	1	0	68	1	18	0	55	0	0	74	74	61	26	0	57	0	218	0	0	0	0	0	0	51	0	0	0	0	0	51	0	0	0	0	0	0	411								
1:15 PM	7	0	69	0	0	0	76	7	14	0	42	0	0	63	62	51	26	0	42	0	181	0	0	0	0	0	0	42	0	0	0	0	0	42	0	0	0	0	0	0	362								
1:30 PM	10	0	58	0	0	0	68	4	22	0	42	0	0	68	65	51	31	0	75	0	222	0	0	0	0	0	0	46	0	0	0	0	0	46	0	0	0	0	0	0	404								
1:45 PM	10	0	58	0	0	0	68	8	16	0	50	0	0	74	65	66	31	0	59	0	221	0	0	0	0	0	0	54	0	0	0	0	0	54	0	0	0	0	0	0	417								
Total Volume	35	0	244	0	1	0	280	20	70	0	189	0	0	279	266	229	114	0	233	0	842	0	0	0	0	0	0	193	0	0	0	0	0	193	0	0	0	0	0	0	1594								
% Approach Total	12.5	0.0	87.1	0.0	0.4	0.0		7.2	25.1	0.0	67.7	0.0	0.0		31.6	27.2	13.5	0.0	27.7	0.0		0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
PHF	0.875	0.000	0.884	0.000	0.250	0.000	0.921	0.625	0.795	0.000	0.859	0.000	0.000	0.943	0.899	0.867	0.919	0.000	0.777	0.000	0.948	0.000	0.000	0.000	0.000	0.000	0.894	0.000	0.000	0.000	0.000	0.000	0.894	0.000	0.000	0.000	0.000	0.000	0.000	0.956									
Entering Leg	35	0	244	0	1	0	280	20	70	0	189	0	0	279	266	229	114	0	233	0	842	0	0	0	0	0	0	193	0	0	0	0	0	193	0	0	0	0	0	0	1594								
Exiting Leg																													859							0							219	1594					
Total	529							546							842							859							193							219							3188						



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Saturday, April 1, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Heavy Vehicles

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, West. Rows include time intervals (11:00 AM to 1:45 PM) and summary rows (Grand Total, Approach %, Total %, Exiting Leg Total).

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street) and sub-columns for North, East, Southeast, South, Southwest, West. Rows include time intervals (12:00 PM to 12:45 PM) and summary rows (Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, Total).



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Saturday, April 1, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Buses

	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	2	0	0	0	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
11:15 AM	0	0	2	0	0	0	2	2	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
11:30 AM	0	0	2	0	0	0	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
11:45 AM	0	0	0	0	0	0	0	3	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Total	0	0	6	0	0	0	6	7	0	0	3	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16		
12:00 PM	0	0	1	0	0	0	1	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
12:15 PM	0	0	2	0	0	0	2	3	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6		
12:30 PM	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
12:45 PM	0	0	2	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
Total	0	0	5	0	0	0	5	7	0	0	3	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15		
1:00 PM	0	0	1	0	0	0	1	3	0	0	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8		
1:15 PM	0	0	2	0	0	0	2	2	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5		
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1:45 PM	0	0	2	0	0	0	2	2	0	0	1	0	0	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6		
Total	0	0	5	0	0	0	5	7	0	0	5	0	0	12	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19		
Grand Total	0	0	16	0	0	0	16	21	0	0	11	0	0	32	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50		
Approach %	0.0	0.0	100.0	0.0	0.0	0.0		65.6	0.0	0.0	34.4	0.0	0.0		0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Total %	0.0	0.0	32.0	0.0	0.0	0.0	32.0	42.0	0.0	0.0	22.0	0.0	0.0	64.0	0.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Exiting Leg Total							22						0							0																			0	50			

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street							College Avenue							Highland Avenue							Elm Street							Day Street							Dover Street							Total
	North							East							Southeast							South							Southwest							West							
	Right	Bear Right	Thru	Bear Left	Left	U-Turn	Total	Right	Thru	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Bear Left	Left	Hard Left	U-Turn	Total	Hard Right	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Bear Left	Hard Left	U-Turn	Total	Hard Right	Right	Bear Right	Thru	Left	U-Turn	Total	
12:15 PM	0	0	2	0	0	0	2	3	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6		
12:30 PM	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
12:45 PM	0	0	2	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
1:00 PM	0	0	1	0	0	0	1	3	0	0	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8			
Total Volume	0	0	5	0	0	0	5	9	0	0	5	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20			
% Approach Total	0.0	0.0	100.0	0.0	0.0	0.0		64.3	0.0	0.0	35.7	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
PHF	0.000	0.000	0.625	0.000	0.000	0.000	0.625	0.750	0.000	0.000	0.417	0.000	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625				
Entering Leg	0	0	5	0	0	0	5	9	0	0	5	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20				
Exiting Leg							9						0																										0	20			
Total							14						14																										0	40			



PRECISION DATA INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Saturday, April 1, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Bicycles (on Roadway and Crosswalks)

Table with columns for street names (Elm Street, College Avenue, Highland Avenue, Day Street, Dover Street) and direction (North, East, Southeast, South, Southwest, West, Northwest). Rows include time slots (11:00 AM to 1:45 PM) and summary rows (Grand Total, Approach %, Total %, Exiting Leg Total).

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table showing peak hour analysis for 12:45 PM. Columns are the same as the main table above. Rows include time slot (12:45 PM), total volume, approach percentages, PHF, and entering/exiting leg totals.



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

PDI File #: 175536 AAAA
Location: N: Elm Street S: Elm Street NW: Major Crosswalk
Location: E: College Avenue W: Dover Street SE: Highland Avenue SW: Day Street
City, State: Somerville, MA
Client: Toole Design/ W. Haung
Site Code: 6036.05
Count Date: Saturday, April 1, 2017
Start Time: 11:00 AM
End Time: 2:00 PM
Class:

Pedestrians

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, Major Crosswalk) and sub-columns for North, East, Southeast, South, Southwest, West, Northwest. Rows include time intervals (11:00 AM to 1:45 AM, 12:00 PM to 12:45 PM, 1:00 PM to 1:45 PM) and Grand Total, Approach %, and Exiting Leg Total.

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table with columns for Street (Elm Street, College Avenue, Highland Avenue, Elm Street, Day Street, Dover Street, Major Crosswalk) and sub-columns for North, East, Southeast, South, Southwest, West, Northwest. Rows include time intervals (12:45 PM, 1:00 PM, 1:15 PM, 1:30 PM) and Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, and Total.

PDI File #: **175536 B**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



**PRECISION
D A T A
INDUSTRIES, LLC**
 46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars, Heavy Vehicles, and Buses (Combined)

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	112	0	0	112	1	2	0	3	0	37	0	37	152
7:15 AM	129	0	0	129	3	2	0	5	0	46	0	46	180
7:30 AM	119	0	0	119	2	2	0	4	0	60	0	60	183
7:45 AM	125	0	0	125	3	3	0	6	0	54	0	54	185
Total	485	0	0	485	9	9	0	18	0	197	0	197	700
8:00 AM	116	0	0	116	2	2	0	4	0	72	0	72	192
8:15 AM	95	0	0	95	2	2	0	4	0	70	0	70	169
8:30 AM	104	0	0	104	3	3	0	6	0	50	0	50	160
8:45 AM	115	0	0	115	4	3	0	7	0	43	0	43	165
Total	430	0	0	430	11	10	0	21	0	235	0	235	686
Grand Total	915	0	0	915	20	19	0	39	0	432	0	432	1386
Approach %	100.0	0.0	0.0		51.3	48.7	0.0		0.0	100.0	0.0		
Total %	66.0	0.0	0.0	66.0	1.4	1.4	0.0	2.8	0.0	31.2	0.0	31.2	
Exiting Leg Total				452				0				934	1386
Cars	850	0	0	850	1	0	0	1	0	419	0	419	1270
% Cars	92.9	0.0	0.0	92.9	5.0	0.0	0.0	2.6	0.0	97.0	0.0	97.0	91.6
Exiting Leg Total				420				0				850	1270
Heavy Vehicles	38	0	0	38	0	0	0	0	0	9	0	9	47
% Heavy Vehicles	4.2	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	3.4
Exiting Leg Total				9				0				38	47
Buses	27	0	0	27	19	19	0	38	0	4	0	4	69
% Buses	3.0	0.0	0.0	3.0	95.0	100.0	0.0	97.4	0.0	0.9	0.0	0.9	5.0
Exiting Leg Total				23				0				46	69

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:15 AM	129	0	0	129	3	2	0	5	0	46	0	46	180
7:30 AM	119	0	0	119	2	2	0	4	0	60	0	60	183
7:45 AM	125	0	0	125	3	3	0	6	0	54	0	54	185
8:00 AM	116	0	0	116	2	2	0	4	0	72	0	72	192
Total Volume	489	0	0	489	10	9	0	19	0	232	0	232	740
% Approach Total	100.0	0.0	0.0		52.6	47.4	0.0		0.0	100.0	0.0		
PHF	0.948	0.000	0.000	0.948	0.833	0.750	0.000	0.792	0.000	0.806	0.000	0.806	0.964
Cars	462	0	0	462	0	0	0	0	0	226	0	226	688
Cars %	94.5	0.0	0.0	94.5	0.0	0.0	0.0	0.0	0.0	97.4	0.0	97.4	93.0
Heavy Vehicles	14	0	0	14	0	0	0	0	0	5	0	5	19
Heavy Vehicles %	2.9	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	2.2	0.0	2.2	2.6
Buses	13	0	0	13	10	9	0	19	0	1	0	1	33
Buses %	2.7	0.0	0.0	2.7	100.0	100.0	0.0	100.0	0.0	0.4	0.0	0.4	4.5
Cars Enter Leg	462	0	0	462	0	0	0	0	0	226	0	226	688
Heavy Enter Leg	14	0	0	14	0	0	0	0	0	5	0	5	19
Bus Enter Leg	13	0	0	13	10	9	0	19	0	1	0	1	33
Total Entering Leg	489	0	0	489	10	9	0	19	0	232	0	232	740
Cars Exiting Leg				226				0				462	688
Heavy Exiting Leg				5				0				14	19
Buses Exiting Leg				11				0				22	33
Total Exiting Leg				242				0				498	740

PDI File #: **175536 B**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



PRECISION
 D A T A
 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				Somerville Community Path				College Avenue				Total	
	East				South				West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
7:00 AM	104	0	0	104	0	0	0	0	0	37	0	37	141	
7:15 AM	123	0	0	123	0	0	0	0	0	45	0	45	168	
7:30 AM	111	0	0	111	0	0	0	0	0	59	0	59	170	
7:45 AM	120	0	0	120	0	0	0	0	0	52	0	52	172	
Total	458	0	0	458	0	0	0	0	0	193	0	193	651	
8:00 AM	108	0	0	108	0	0	0	0	0	70	0	70	178	
8:15 AM	85	0	0	85	0	0	0	0	0	68	0	68	153	
8:30 AM	93	0	0	93	1	0	0	1	0	47	0	47	141	
8:45 AM	106	0	0	106	0	0	0	0	0	41	0	41	147	
Total	392	0	0	392	1	0	0	1	0	226	0	226	619	
Grand Total	850	0	0	850	1	0	0	1	0	419	0	419	1270	
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0			
Total %	66.9	0.0	0.0	66.9	0.1	0.0	0.0	0.1	0.0	33.0	0.0	33.0		
Exiting Leg Total				420				0					850	1270

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:15 AM	123	0	0	123	0	0	0	0	0	45	0	45	168
7:30 AM	111	0	0	111	0	0	0	0	0	59	0	59	170
7:45 AM	120	0	0	120	0	0	0	0	0	52	0	52	172
8:00 AM	108	0	0	108	0	0	0	0	0	70	0	70	178
Total Volume	462	0	0	462	0	0	0	0	0	226	0	226	688
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.939	0.000	0.000	0.939	0.000	0.000	0.000	0.000	0.000	0.807	0.000	0.807	0.966
Entering Leg	462	0	0	462	0	0	0	0	0	226	0	226	688
Exiting Leg				226				0				462	688
Total				688				0				688	1376

PDI File #: **175536 B**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



PRECISION
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 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	5	0	0	5	0	0	0	0	0	0	0	0	5
7:15 AM	3	0	0	3	0	0	0	0	0	1	0	1	4
7:30 AM	5	0	0	5	0	0	0	0	0	0	0	0	5
7:45 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
Total	15	0	0	15	0	0	0	0	0	3	0	3	18
8:00 AM	4	0	0	4	0	0	0	0	0	2	0	2	6
8:15 AM	6	0	0	6	0	0	0	0	0	1	0	1	7
8:30 AM	6	0	0	6	0	0	0	0	0	2	0	2	8
8:45 AM	7	0	0	7	0	0	0	0	0	1	0	1	8
Total	23	0	0	23	0	0	0	0	0	6	0	6	29
Grand Total	38	0	0	38	0	0	0	0	0	9	0	9	47
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	80.9	0.0	0.0	80.9	0.0	0.0	0.0	0.0	0.0	19.1	0.0	19.1	
Exiting Leg Total				9				0				38	47

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
8:00 AM	4	0	0	4	0	0	0	0	0	2	0	2	6
8:15 AM	6	0	0	6	0	0	0	0	0	1	0	1	7
8:30 AM	6	0	0	6	0	0	0	0	0	2	0	2	8
8:45 AM	7	0	0	7	0	0	0	0	0	1	0	1	8
Total Volume	23	0	0	23	0	0	0	0	0	6	0	6	29
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.821	0.000	0.000	0.821	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.750	0.906
Entering Leg	23	0	0	23	0	0	0	0	0	6	0	6	29
Exiting Leg				6				0				23	29
Total				29				0				29	58

PDI File #: **175536 B**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



PRECISION
 D A T A
 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	College Avenue				Somerville Community Path				College Avenue				Total	
	East				South				West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
7:00 AM	3	0	0	3	1	2	0	3	0	0	0	0	6	
7:15 AM	3	0	0	3	3	2	0	5	0	0	0	0	8	
7:30 AM	3	0	0	3	2	2	0	4	0	1	0	1	8	
7:45 AM	3	0	0	3	3	3	0	6	0	0	0	0	9	
Total	12	0	0	12	9	9	0	18	0	1	0	1	31	
8:00 AM	4	0	0	4	2	2	0	4	0	0	0	0	8	
8:15 AM	4	0	0	4	2	2	0	4	0	1	0	1	9	
8:30 AM	5	0	0	5	2	3	0	5	0	1	0	1	11	
8:45 AM	2	0	0	2	4	3	0	7	0	1	0	1	10	
Total	15	0	0	15	10	10	0	20	0	3	0	3	38	
Grand Total	27	0	0	27	19	19	0	38	0	4	0	4	69	
Approach %	100.0	0.0	0.0		50.0	50.0	0.0		0.0	100.0	0.0			
Total %	39.1	0.0	0.0	39.1	27.5	27.5	0.0	55.1	0.0	5.8	0.0	5.8		
Exiting Leg Total				23				0					46	69

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
8:00 AM	4	0	0	4	2	2	0	4	0	0	0	0	8
8:15 AM	4	0	0	4	2	2	0	4	0	1	0	1	9
8:30 AM	5	0	0	5	2	3	0	5	0	1	0	1	11
8:45 AM	2	0	0	2	4	3	0	7	0	1	0	1	10
Total Volume	15	0	0	15	10	10	0	20	0	3	0	3	38
% Approach Total	100.0	0.0	0.0		50.0	50.0	0.0		0.0	100.0	0.0		
PHF	0.750	0.000	0.000	0.750	0.625	0.833	0.000	0.714	0.000	0.750	0.000	0.750	0.864
Entering Leg	15	0	0	15	10	10	0	20	0	3	0	3	38
Exiting Leg				13				0				25	38
Total				28				20				28	76

PDI File #: **175536 B**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	College Avenue							Somerville Community Path							College Avenue							Total		
	East							South							West									
	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	U-Turn	CW-NB	CW-SB	Total				
7:00 AM	4	0	0	0	0	4		0	0	0	0	0	0		0	1	0	0	0	1		5		
7:15 AM	3	0	0	0	0	3		0	0	0	0	0	0		0	0	0	0	0	0		3		
7:30 AM	6	0	0	0	0	6		0	0	0	0	0	0		0	0	0	0	0	0		6		
7:45 AM	6	1	0	0	2	9		0	1	0	0	0	1		0	0	0	0	0	0		10		
Total	19	1	0	0	2	22		0	1	0	0	0	1		0	1	0	0	0	1		24		
8:00 AM	6	1	0	0	1	8		0	0	0	0	1	1		0	0	0	0	0	0		9		
8:15 AM	9	1	0	0	0	10		0	0	0	0	0	0		0	0	0	0	0	0		10		
8:30 AM	7	0	0	0	0	7		0	0	0	0	0	0		0	1	0	1	0	2		9		
8:45 AM	4	2	0	0	0	6		0	0	0	0	0	0		0	0	0	0	0	0		6		
Total	26	4	0	0	1	31		0	0	0	0	1	1		0	1	0	1	0	2		34		
Grand Total	45	5	0	0	3	53		0	1	0	0	1	2		0	2	0	1	0	3		58		
Approach %	84.9	9.4	0.0	0.0	5.7			0.0	50.0	0.0	0.0	50.0			0.0	66.7	0.0	33.3	0.0					
Total %	77.6	8.6	0.0	0.0	5.2	91.4		0.0	1.7	0.0	0.0	1.7	3.4		0.0	3.4	0.0	1.7	0.0	5.2				
Exiting Leg Total								5							6							47		58

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue							Somerville Community Path							College Avenue							Total		
	East							South							West									
	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	U-Turn	CW-NB	CW-SB	Total				
7:45 AM	6	1	0	0	2	9		0	1	0	0	0	1		0	0	0	0	0	0		10		
8:00 AM	6	1	0	0	1	8		0	0	0	0	1	1		0	0	0	0	0	0		9		
8:15 AM	9	1	0	0	0	10		0	0	0	0	0	0		0	0	0	0	0	0		10		
8:30 AM	7	0	0	0	0	7		0	0	0	0	0	0		0	1	0	1	0	2		9		
Total Volume	28	3	0	0	3	34		0	1	0	0	1	2		0	1	0	1	0	2		38		
% Approach Total	82.4	8.8	0.0	0.0	8.8			0.0	50.0	0.0	0.0	50.0			0.0	50.0	0.0	50.0	0.0					
PHF	0.778	0.750	0.000	0.000	0.375	0.850		0.000	0.250	0.000	0.000	0.250	0.500		0.000	0.250	0.000	0.250	0.000	0.250		0.950		
Entering Leg	28	3	0	0	3	34		0	1	0	0	1	2		0	1	0	1	0	2		38		
Exiting Leg								4							4							30		38
Total								38							6							32		76

PDI File #: **175536 B**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	College Avenue						Somerville Community Path						College Avenue						Total	
	East						South						West							
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total		
7:00 AM	0	0	0	66	9	75	0	0	0	13	15	28	0	0	0	0	0	2	2	105
7:15 AM	0	0	0	42	11	53	0	0	0	15	16	31	0	0	0	0	0	0	84	
7:30 AM	0	0	0	71	12	83	0	0	0	18	23	41	0	0	0	0	0	0	124	
7:45 AM	0	0	0	83	16	99	0	0	0	17	21	38	0	0	0	0	0	1	138	
Total	0	0	0	262	48	310	0	0	0	63	75	138	0	0	0	0	3	3	451	
8:00 AM	0	0	0	98	19	117	0	0	0	24	30	54	0	0	0	1	0	1	172	
8:15 AM	0	0	0	79	27	106	0	0	0	27	43	70	0	0	0	0	1	1	177	
8:30 AM	0	0	0	155	12	167	0	0	0	27	49	76	0	0	0	0	0	0	243	
8:45 AM	0	0	0	63	25	88	0	0	0	24	28	52	0	0	0	0	0	0	140	
Total	0	0	0	395	83	478	0	0	0	102	150	252	0	0	0	1	1	2	732	
Grand Total	0	0	0	657	131	788	0	0	0	165	225	390	0	0	0	1	4	5	1183	
Approach %	0.0	0.0	0.0	83.4	16.6		0.0	0.0	0.0	42.3	57.7		0.0	0.0	0.0	20.0	80.0			
Total %	0.0	0.0	0.0	55.5	11.1	66.6	0.0	0.0	0.0	13.9	19.0	33.0	0.0	0.0	0.0	0.1	0.3	0.4		
Exiting Leg Total	788						390						5						1183	

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	0	0	98	19	117	0	0	0	24	30	54	0	0	0	1	0	1	172
8:15 AM	0	0	0	79	27	106	0	0	0	27	43	70	0	0	0	0	1	1	177
8:30 AM	0	0	0	155	12	167	0	0	0	27	49	76	0	0	0	0	0	0	243
8:45 AM	0	0	0	63	25	88	0	0	0	24	28	52	0	0	0	0	0	0	140
Total Volume	0	0	0	395	83	478	0	0	0	102	150	252	0	0	0	1	1	2	732
% Approach Total	0.0	0.0	0.0	82.6	17.4		0.0	0.0	0.0	40.5	59.5		0.0	0.0	0.0	50.0	50.0		
PHF	0.000	0.000	0.000	0.637	0.769	0.716	0.000	0.000	0.000	0.944	0.765	0.829	0.000	0.000	0.000	0.250	0.250	0.500	0.753
Entering Leg	0	0	0	395	83	478	0	0	0	102	150	252	0	0	0	1	1	2	732
Exiting Leg	478						252						2						732
Total	956						504						4						1464

PDI File #: 175536 BB
 Location: S: Somerville Community Path
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Thursday, March 30, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



PRECISION
 DATA
 INDUSTRIES, LLC
 46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars, Heavy Vehicles, and Buses (Combined)

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	81	0	0	81	1	5	0	6	0	38	0	38	125
11:15 AM	74	0	0	74	2	3	0	5	0	57	0	57	136
11:30 AM	79	0	0	79	1	2	0	3	0	46	0	46	128
11:45 AM	71	0	0	71	0	3	0	3	0	53	0	53	127
Total	305	0	0	305	4	13	0	17	0	194	0	194	516
12:00 PM	72	0	0	72	2	1	0	3	0	56	0	56	131
12:15 PM	74	0	0	74	1	2	0	3	0	55	0	55	132
12:30 PM	74	0	0	74	3	0	0	3	0	67	0	67	144
12:45 PM	75	0	0	75	1	2	0	3	0	64	0	64	142
Total	295	0	0	295	7	5	0	12	0	242	0	242	549
1:00 PM	71	0	0	71	2	2	0	4	0	60	0	60	135
1:15 PM	66	0	0	66	1	4	0	5	0	51	0	51	122
1:30 PM	69	0	0	69	1	1	0	2	0	67	0	67	138
1:45 PM	64	0	0	64	2	1	0	3	0	56	0	56	123
Total	270	0	0	270	6	8	0	14	0	234	0	234	518
Grand Total	870	0	0	870	17	26	0	43	0	670	0	670	1583
Approach %	100.0	0.0	0.0		39.5	60.5	0.0		0.0	100.0	0.0		
Total %	55.0	0.0	0.0	55.0	1.1	1.6	0.0	2.7	0.0	42.3	0.0	42.3	
Exiting Leg Total				687				0				896	1583
Cars	822	0	0	822	2	5	0	7	0	643	0	643	1472
% Cars	94.5	0.0	0.0	94.5	11.8	19.2	0.0	16.3	0.0	96.0	0.0	96.0	93.0
Exiting Leg Total				645				0				827	1472
Heavy Vehicles	26	0	0	26	0	0	0	0	0	27	0	27	53
% Heavy Vehicles	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	3.3
Exiting Leg Total				27				0				26	53
Buses	22	0	0	22	15	21	0	36	0	0	0	0	58
% Buses	2.5	0.0	0.0	2.5	88.2	80.8	0.0	83.7	0.0	0.0	0.0	0.0	3.7
Exiting Leg Total				15				0				43	58

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:15 PM	74	0	0	74	1	2	0	3	0	55	0	55	132
12:30 PM	74	0	0	74	3	0	0	3	0	67	0	67	144
12:45 PM	75	0	0	75	1	2	0	3	0	64	0	64	142
1:00 PM	71	0	0	71	2	2	0	4	0	60	0	60	135
Total Volume	294	0	0	294	7	6	0	13	0	246	0	246	553
% Approach Total	100.0	0.0	0.0		53.8	46.2	0.0		0.0	100.0	0.0		
PHF	0.980	0.000	0.000	0.980	0.583	0.750	0.000	0.813	0.000	0.918	0.000	0.918	0.960
Cars	278	0	0	278	2	0	0	2	0	239	0	239	519
Cars %	94.6	0.0	0.0	94.6	28.6	0.0	0.0	15.4	0.0	97.2	0.0	97.2	93.9
Heavy Vehicles	8	0	0	8	0	0	0	0	0	7	0	7	15
Heavy Vehicles %	2.7	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.8	0.0	2.8	2.7
Buses	8	0	0	8	5	6	0	11	0	0	0	0	19
Buses %	2.7	0.0	0.0	2.7	71.4	100.0	0.0	84.6	0.0	0.0	0.0	0.0	3.4
Cars Enter Leg	278	0	0	278	2	0	0	2	0	239	0	239	519
Heavy Enter Leg	8	0	0	8	0	0	0	0	0	7	0	7	15
Bus Enter Leg	8	0	0	8	5	6	0	11	0	0	0	0	19
Total Entering Leg	294	0	0	294	7	6	0	13	0	246	0	246	553
Cars Exiting Leg				241				0				278	519
Heavy Exiting Leg				7				0				8	15
Buses Exiting Leg				5				0				14	19
Total Exiting Leg				253				0				300	553

PDI File #: **175536 BB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



PRECISION
 D A T A
 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	75	0	0	75	0	1	0	1	0	35	0	35	111
11:15 AM	69	0	0	69	0	2	0	2	0	54	0	54	125
11:30 AM	73	0	0	73	0	1	0	1	0	45	0	45	119
11:45 AM	65	0	0	65	0	0	0	0	0	47	0	47	112
Total	282	0	0	282	0	4	0	4	0	181	0	181	467
12:00 PM	69	0	0	69	0	0	0	0	0	55	0	55	124
12:15 PM	69	0	0	69	0	0	0	0	0	53	0	53	122
12:30 PM	70	0	0	70	1	0	0	1	0	66	0	66	137
12:45 PM	73	0	0	73	0	0	0	0	0	63	0	63	136
Total	281	0	0	281	1	0	0	1	0	237	0	237	519
1:00 PM	66	0	0	66	1	0	0	1	0	57	0	57	124
1:15 PM	63	0	0	63	0	1	0	1	0	47	0	47	111
1:30 PM	67	0	0	67	0	0	0	0	0	65	0	65	132
1:45 PM	63	0	0	63	0	0	0	0	0	56	0	56	119
Total	259	0	0	259	1	1	0	2	0	225	0	225	486
Grand Total	822	0	0	822	2	5	0	7	0	643	0	643	1472
Approach %	100.0	0.0	0.0		28.6	71.4	0.0		0.0	100.0	0.0		
Total %	55.8	0.0	0.0	55.8	0.1	0.3	0.0	0.5	0.0	43.7	0.0	43.7	
Exiting Leg Total				645				0				827	1472

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:00 PM	69	0	0	69	0	0	0	0	0	55	0	55	124
12:15 PM	69	0	0	69	0	0	0	0	0	53	0	53	122
12:30 PM	70	0	0	70	1	0	0	1	0	66	0	66	137
12:45 PM	73	0	0	73	0	0	0	0	0	63	0	63	136
Total Volume	281	0	0	281	1	0	0	1	0	237	0	237	519
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.962	0.000	0.000	0.962	0.250	0.000	0.000	0.250	0.000	0.898	0.000	0.898	0.947
Entering Leg	281	0	0	281	1	0	0	1	0	237	0	237	519
Exiting Leg				238				0				281	519
Total				519				1				518	1038

PDI File #: **175536 BB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



**PRECISION
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INDUSTRIES, LLC**

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	4	0	0	4	0	0	0	0	0	3	0	3	7
11:15 AM	3	0	0	3	0	0	0	0	0	3	0	3	6
11:30 AM	4	0	0	4	0	0	0	0	0	1	0	1	5
11:45 AM	3	0	0	3	0	0	0	0	0	6	0	6	9
Total	14	0	0	14	0	0	0	0	0	13	0	13	27
12:00 PM	2	0	0	2	0	0	0	0	0	1	0	1	3
12:15 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
12:30 PM	2	0	0	2	0	0	0	0	0	1	0	1	3
12:45 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
Total	7	0	0	7	0	0	0	0	0	5	0	5	12
1:00 PM	3	0	0	3	0	0	0	0	0	3	0	3	6
1:15 PM	1	0	0	1	0	0	0	0	0	4	0	4	5
1:30 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	0	0	5	0	0	0	0	0	9	0	9	14
Grand Total	26	0	0	26	0	0	0	0	0	27	0	27	53
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	49.1	0.0	0.0	49.1	0.0	0.0	0.0	0.0	0.0	50.9	0.0	50.9	
Exiting Leg Total				27				0				26	53

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	4	0	0	4	0	0	0	0	0	3	0	3	7
11:15 AM	3	0	0	3	0	0	0	0	0	3	0	3	6
11:30 AM	4	0	0	4	0	0	0	0	0	1	0	1	5
11:45 AM	3	0	0	3	0	0	0	0	0	6	0	6	9
Total Volume	14	0	0	14	0	0	0	0	0	13	0	13	27
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.875	0.000	0.000	0.875	0.000	0.000	0.000	0.000	0.000	0.542	0.000	0.542	0.750
Entering Leg	14	0	0	14	0	0	0	0	0	13	0	13	27
Exiting Leg				13				0				14	27
Total				27				0				27	54

PDI File #: **175536 BB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



**PRECISION
D A T A
INDUSTRIES, LLC**

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	College Avenue				Somerville Community Path				College Avenue				Total	
	East				South				West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:00 AM	2	0	0	2	1	4	0	5	0	0	0	0	7	
11:15 AM	2	0	0	2	2	1	0	3	0	0	0	0	5	
11:30 AM	2	0	0	2	1	1	0	2	0	0	0	0	4	
11:45 AM	3	0	0	3	0	3	0	3	0	0	0	0	6	
Total	9	0	0	9	4	9	0	13	0	0	0	0	22	
12:00 PM	1	0	0	1	2	1	0	3	0	0	0	0	4	
12:15 PM	3	0	0	3	1	2	0	3	0	0	0	0	6	
12:30 PM	2	0	0	2	2	0	0	2	0	0	0	0	4	
12:45 PM	1	0	0	1	1	2	0	3	0	0	0	0	4	
Total	7	0	0	7	6	5	0	11	0	0	0	0	18	
1:00 PM	2	0	0	2	1	2	0	3	0	0	0	0	5	
1:15 PM	2	0	0	2	1	3	0	4	0	0	0	0	6	
1:30 PM	1	0	0	1	1	1	0	2	0	0	0	0	3	
1:45 PM	1	0	0	1	2	1	0	3	0	0	0	0	4	
Total	6	0	0	6	5	7	0	12	0	0	0	0	18	
Grand Total	22	0	0	22	15	21	0	36	0	0	0	0	58	
Approach %	100.0	0.0	0.0		41.7	58.3	0.0		0.0	0.0	0.0			
Total %	37.9	0.0	0.0	37.9	25.9	36.2	0.0	62.1	0.0	0.0	0.0	0.0		
Exiting Leg Total				15				0					43	58

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total	
	East				South				West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
11:00 AM	2	0	0	2	1	4	0	5	0	0	0	0	7	
11:15 AM	2	0	0	2	2	1	0	3	0	0	0	0	5	
11:30 AM	2	0	0	2	1	1	0	2	0	0	0	0	4	
11:45 AM	3	0	0	3	0	3	0	3	0	0	0	0	6	
Total Volume	9	0	0	9	4	9	0	13	0	0	0	0	22	
% Approach Total	100.0	0.0	0.0		30.8	69.2	0.0		0.0	0.0	0.0			
PHF	0.750	0.000	0.000	0.750	0.500	0.563	0.000	0.650	0.000	0.000	0.000	0.000	0.786	
Entering Leg	9	0	0	9	4	9	0	13	0	0	0	0	22	
Exiting Leg				4				0					18	22
Total				13				13					18	44

PDI File #: **175536 BB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	3	0	0	0	0	3	0	1	0	0	0	1	0	1	0	0	0	1	5
11:15 AM	2	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	3
11:30 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	2
11:45 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	4
Total	6	0	0	0	0	6	1	2	0	0	0	3	0	5	0	0	0	5	14
12:00 PM	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
12:15 PM	1	0	0	1	1	3	0	0	0	0	0	2	0	0	0	0	0	0	5
12:30 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	1	0	0	0	0	1	0	1	0	0	1	2	0	1	0	0	0	1	4
Total	6	0	0	1	1	8	0	1	0	0	3	4	0	1	0	0	0	1	13
1:00 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
1:30 PM	4	0	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	0	5
1:45 PM	2	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	3
Total	6	0	0	1	0	7	1	0	0	0	0	1	0	4	0	0	0	4	12
Grand Total	18	0	0	2	1	21	2	3	0	0	3	8	0	10	0	0	0	10	39
Approach %	85.7	0.0	0.0	9.5	4.8		25.0	37.5	0.0	0.0	37.5		0.0	100.0	0.0	0.0	0.0		
Total %	46.2	0.0	0.0	5.1	2.6	53.8	5.1	7.7	0.0	0.0	7.7	20.5	0.0	25.6	0.0	0.0	0.0	25.6	
Exiting Leg Total	15						3						21						39

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	3	0	0	0	0	3	0	1	0	0	0	1	0	1	0	0	0	1	5
11:15 AM	2	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	3
11:30 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	2
11:45 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	4
Total Volume	6	0	0	0	0	6	1	2	0	0	0	3	0	5	0	0	0	5	14
% Approach Total	100.0	0.0	0.0	0.0	0.0		33.3	66.7	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0		
PHF	0.500	0.000	0.000	0.000	0.000	0.500	0.250	0.500	0.000	0.000	0.000	0.750	0.000	0.417	0.000	0.000	0.000	0.417	0.700
Entering Leg	6	0	0	0	0	6	1	2	0	0	0	3	0	5	0	0	0	5	14
Exiting Leg	6						0						8						14
Total	12						3						13						28

PDI File #: **175536 BB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



**PRECISION
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INDUSTRIES, LLC**

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Pedestrians

	College Avenue						Somerville Community Path						College Avenue						Total	
	East						South						West							
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	0	0	18	7	25	0	0	0	19	30	49	0	0	0	1	0	1	75	
11:15 AM	0	0	0	21	8	29	0	0	0	26	22	48	0	0	0	0	0	0	77	
11:30 AM	0	0	0	28	15	43	0	0	0	22	21	43	0	0	0	1	0	1	87	
11:45 AM	0	0	0	27	13	40	0	0	0	27	18	45	0	0	0	1	1	2	87	
Total	0	0	0	94	43	137	0	0	0	94	91	185	0	0	0	3	1	4	326	
12:00 PM	0	0	0	26	30	56	0	0	0	21	30	51	0	0	0	0	1	1	108	
12:15 PM	0	0	0	28	19	47	0	0	0	32	24	56	0	0	0	1	2	3	106	
12:30 PM	0	0	0	26	13	39	0	0	0	29	39	68	0	0	0	0	1	1	108	
12:45 PM	0	0	0	16	22	38	0	0	0	27	23	50	0	0	0	0	0	0	88	
Total	0	0	0	96	84	180	0	0	0	109	116	225	0	0	0	1	4	5	410	
1:00 PM	0	0	0	28	23	51	0	0	0	42	33	75	0	0	0	0	1	1	127	
1:15 PM	0	0	0	46	20	66	0	0	0	40	38	78	0	0	0	0	0	0	144	
1:30 PM	0	0	0	33	18	51	0	0	0	26	42	68	0	0	0	2	1	3	122	
1:45 PM	0	0	0	23	13	36	0	0	0	36	39	75	0	0	0	0	0	0	111	
Total	0	0	0	130	74	204	0	0	0	144	152	296	0	0	0	2	2	4	504	
Grand Total	0	0	0	320	201	521	0	0	0	347	359	706	0	0	0	6	7	13	1240	
Approach %	0.0	0.0	0.0	61.4	38.6		0.0	0.0	0.0	49.2	50.8		0.0	0.0	0.0	46.2	53.8			
Total %	0.0	0.0	0.0	25.8	16.2	42.0	0.0	0.0	0.0	28.0	29.0	56.9	0.0	0.0	0.0	0.5	0.6	1.0		
Exiting Leg Total																			13	1240

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue						Somerville Community Path						College Avenue						Total	
	East						South						West							
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total		
1:00 PM	0	0	0	28	23	51	0	0	0	42	33	75	0	0	0	0	1	1	127	
1:15 PM	0	0	0	46	20	66	0	0	0	40	38	78	0	0	0	0	0	0	144	
1:30 PM	0	0	0	33	18	51	0	0	0	26	42	68	0	0	0	2	1	3	122	
1:45 PM	0	0	0	23	13	36	0	0	0	36	39	75	0	0	0	0	0	0	111	
Total Volume	0	0	0	130	74	204	0	0	0	144	152	296	0	0	0	2	2	4	504	
% Approach Total	0.0	0.0	0.0	63.7	36.3		0.0	0.0	0.0	48.6	51.4		0.0	0.0	0.0	50.0	50.0			
PHF	0.000	0.000	0.000	0.707	0.804	0.773	0.000	0.000	0.000	0.857	0.905	0.949	0.000	0.000	0.000	0.250	0.500	0.333	0.875	
Entering Leg	0	0	0	130	74	204	0	0	0	144	152	296	0	0	0	2	2	4	504	
Exiting Leg																			4	504
Total																			8	1008

PDI File #: **175536 BBB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars, Heavy Vehicles, and Buses (Combined)

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	73	0	0	73	1	2	0	3	0	85	0	85	161
4:15 PM	73	0	0	73	2	1	0	3	0	114	0	114	190
4:30 PM	90	0	0	90	2	3	0	5	0	109	0	109	204
4:45 PM	83	0	0	83	2	1	0	3	0	96	0	96	182
Total	319	0	0	319	7	7	0	14	0	404	0	404	737
5:00 PM	81	0	0	81	2	2	0	4	0	102	0	102	187
5:15 PM	82	0	0	82	1	2	0	3	0	109	0	109	194
5:30 PM	80	0	0	80	3	0	0	3	0	132	0	132	215
5:45 PM	65	0	0	65	3	3	0	6	0	92	0	92	163
Total	308	0	0	308	9	7	0	16	0	435	0	435	759
Grand Total	627	0	0	627	16	14	0	30	0	839	0	839	1496
Approach %	100.0	0.0	0.0		53.3	46.7	0.0		0.0	100.0	0.0		
Total %	41.9	0.0	0.0	41.9	1.1	0.9	0.0	2.0	0.0	56.1	0.0	56.1	
Exiting Leg Total				855				0				641	1496
Cars	598	0	0	598	0	0	0	0	0	834	0	834	1432
% Cars	95.4	0.0	0.0	95.4	0.0	0.0	0.0	0.0	0.0	99.4	0.0	99.4	95.7
Exiting Leg Total				834				0				598	1432
Heavy Vehicles	4	0	0	4	0	0	0	0	0	2	0	2	6
% Heavy Vehicles	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.4
Exiting Leg Total				2				0				4	6
Buses	25	0	0	25	16	14	0	30	0	3	0	3	58
% Buses	4.0	0.0	0.0	4.0	100.0	100.0	0.0	100.0	0.0	0.4	0.0	0.4	3.9
Exiting Leg Total				19				0				39	58

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:45 PM	83	0	0	83	2	1	0	3	0	96	0	96	182
5:00 PM	81	0	0	81	2	2	0	4	0	102	0	102	187
5:15 PM	82	0	0	82	1	2	0	3	0	109	0	109	194
5:30 PM	80	0	0	80	3	0	0	3	0	132	0	132	215
Total Volume	326	0	0	326	8	5	0	13	0	439	0	439	778
% Approach Total	100.0	0.0	0.0		61.5	38.5	0.0		0.0	100.0	0.0		
PHF	0.982	0.000	0.000	0.982	0.667	0.625	0.000	0.813	0.000	0.831	0.000	0.831	0.905
Cars	313	0	0	313	0	0	0	0	0	437	0	437	750
Cars %	96.0	0.0	0.0	96.0	0.0	0.0	0.0	0.0	0.0	99.5	0.0	99.5	96.4
Heavy Vehicles	2	0	0	2	0	0	0	0	0	1	0	1	3
Heavy Vehicles %	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.4
Buses	11	0	0	11	8	5	0	13	0	1	0	1	25
Buses %	3.4	0.0	0.0	3.4	100.0	100.0	0.0	100.0	0.0	0.2	0.0	0.2	3.2
Cars Enter Leg	313	0	0	313	0	0	0	0	0	437	0	437	750
Heavy Enter Leg	2	0	0	2	0	0	0	0	0	1	0	1	3
Bus Enter Leg	11	0	0	11	8	5	0	13	0	1	0	1	25
Total Entering Leg	326	0	0	326	8	5	0	13	0	439	0	439	778
Cars Exiting Leg				437				0				313	750
Heavy Exiting Leg				1				0				2	3
Buses Exiting Leg				9				0				16	25
Total Exiting Leg				447				0				331	778

PDI File #: **175536 BBB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



PRECISION
 D A T A
 INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	68	0	0	68	0	0	0	0	0	85	0	85	153
4:15 PM	70	0	0	70	0	0	0	0	0	113	0	113	183
4:30 PM	86	0	0	86	0	0	0	0	0	108	0	108	194
4:45 PM	80	0	0	80	0	0	0	0	0	96	0	96	176
Total	304	0	0	304	0	0	0	0	0	402	0	402	706
5:00 PM	78	0	0	78	0	0	0	0	0	101	0	101	179
5:15 PM	77	0	0	77	0	0	0	0	0	108	0	108	185
5:30 PM	78	0	0	78	0	0	0	0	0	132	0	132	210
5:45 PM	61	0	0	61	0	0	0	0	0	91	0	91	152
Total	294	0	0	294	0	0	0	0	0	432	0	432	726
Grand Total	598	0	0	598	0	0	0	0	0	834	0	834	1432
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	41.8	0.0	0.0	41.8	0.0	0.0	0.0	0.0	0.0	58.2	0.0	58.2	
Exiting Leg Total				834				0				598	1432

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:45 PM	80	0	0	80	0	0	0	0	0	96	0	96	176
5:00 PM	78	0	0	78	0	0	0	0	0	101	0	101	179
5:15 PM	77	0	0	77	0	0	0	0	0	108	0	108	185
5:30 PM	78	0	0	78	0	0	0	0	0	132	0	132	210
Total Volume	313	0	0	313	0	0	0	0	0	437	0	437	750
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.978	0.000	0.000	0.978	0.000	0.000	0.000	0.000	0.000	0.828	0.000	0.828	0.893
Entering Leg	313	0	0	313	0	0	0	0	0	437	0	437	750
Exiting Leg				437				0				313	750
Total				750				0				750	1500

PDI File #: **175536 BBB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



**PRECISION
D A T A
INDUSTRIES, LLC**

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Heavy Vehicles

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	2	0	0	2	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	3	0	0	3	0	0	0	0	0	1	0	1	4
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
5:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	0	0	0	0	0	1	0	1	2
Grand Total	4	0	0	4	0	0	0	0	0	2	0	2	6
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	33.3	0.0	33.3	
Exiting Leg Total				2				0				4	6

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	2	0	0	2	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total Volume	3	0	0	3	0	0	0	0	0	1	0	1	4
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.375	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.500
Entering Leg	3	0	0	3	0	0	0	0	0	1	0	1	4
Exiting Leg				1				0				3	4
Total				4				0				4	8

PDI File #: **175536 BBB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



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Buses

	College Avenue				Somerville Community Path				College Avenue				Total	
	East				South				West					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
4:00 PM	3	0	0	3	1	2	0	3	0	0	0	0	6	
4:15 PM	3	0	0	3	2	1	0	3	0	0	0	0	6	
4:30 PM	4	0	0	4	2	3	0	5	0	1	0	1	10	
4:45 PM	2	0	0	2	2	1	0	3	0	0	0	0	5	
Total	12	0	0	12	7	7	0	14	0	1	0	1	27	
5:00 PM	3	0	0	3	2	2	0	4	0	0	0	0	7	
5:15 PM	4	0	0	4	1	2	0	3	0	1	0	1	8	
5:30 PM	2	0	0	2	3	0	0	3	0	0	0	0	5	
5:45 PM	4	0	0	4	3	3	0	6	0	1	0	1	11	
Total	13	0	0	13	9	7	0	16	0	2	0	2	31	
Grand Total	25	0	0	25	16	14	0	30	0	3	0	3	58	
Approach %	100.0	0.0	0.0		53.3	46.7	0.0		0.0	100.0	0.0			
Total %	43.1	0.0	0.0	43.1	27.6	24.1	0.0	51.7	0.0	5.2	0.0	5.2		
Exiting Leg Total				19				0					39	58

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	3	0	0	3	1	2	0	3	0	0	0	0	6
4:15 PM	3	0	0	3	2	1	0	3	0	0	0	0	6
4:30 PM	4	0	0	4	2	3	0	5	0	1	0	1	10
4:45 PM	2	0	0	2	2	1	0	3	0	0	0	0	5
Total Volume	12	0	0	12	7	7	0	14	0	1	0	1	27
% Approach Total	100.0	0.0	0.0		50.0	50.0	0.0		0.0	100.0	0.0		
PHF	0.750	0.000	0.000	0.750	0.875	0.583	0.000	0.700	0.000	0.250	0.000	0.250	0.675
Entering Leg	12	0	0	12	7	7	0	14	0	1	0	1	27
Exiting Leg				8				0				19	27
Total				20				14				20	54

PDI File #: **175536 BBB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



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Bicycles (on Roadway and Crosswalks)

	College Avenue							Somerville Community Path							College Avenue							Total			
	East							South							West										
	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	U-Turn	CW-NB	CW-SB	Total					
4:00 PM	2	0	0	0	0	0	2	2	0	0	0	0	0	2	2	1	0	0	0	0	3	7			
4:15 PM	2	0	0	0	0	0	2	2	0	0	0	0	0	2	0	2	0	0	0	0	2	6			
4:30 PM	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0	0	0	3	4			
4:45 PM	3	0	0	0	0	1	4	0	0	0	0	0	0	0	0	1	0	0	0	0	1	5			
Total	8	0	0	0	0	1	9	4	0	0	0	0	0	4	3	6	0	0	0	0	9	22			
5:00 PM	1	2	0	3	0	0	6	0	1	0	3	0	4	0	5	0	0	0	0	5	15				
5:15 PM	2	0	0	0	0	0	2	1	1	0	0	0	2	0	2	0	0	0	0	2	6				
5:30 PM	5	0	0	4	0	0	9	1	0	0	0	0	1	0	0	0	1	0	0	1	11				
5:45 PM	4	0	0	4	1	0	9	0	4	0	2	0	6	0	2	0	0	0	0	2	17				
Total	12	2	0	11	1	0	26	2	6	0	5	0	13	0	9	0	1	0	0	10	49				
Grand Total	20	2	0	11	2	0	35	6	6	0	5	0	17	3	15	0	1	0	0	19	71				
Approach %	57.1	5.7	0.0	31.4	5.7	0.0		35.3	35.3	0.0	29.4	0.0		15.8	78.9	0.0	5.3	0.0	0.0						
Total %	28.2	2.8	0.0	15.5	2.8	0.0	49.3	8.5	8.5	0.0	7.0	0.0	23.9	4.2	21.1	0.0	1.4	0.0	0.0	26.8					
Exiting Leg Total								34								10								27	71

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue							Somerville Community Path							College Avenue							Total			
	East							South							West										
	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	U-Turn	CW-NB	CW-SB	Total					
5:00 PM	1	2	0	3	0	0	6	0	1	0	3	0	4	0	5	0	0	0	0	5	15				
5:15 PM	2	0	0	0	0	0	2	1	1	0	0	0	2	0	2	0	0	0	0	2	6				
5:30 PM	5	0	0	4	0	0	9	1	0	0	0	0	1	0	0	0	1	0	0	1	11				
5:45 PM	4	0	0	4	1	0	9	0	4	0	2	0	6	0	2	0	0	0	0	2	17				
Total Volume	12	2	0	11	1	0	26	2	6	0	5	0	13	0	9	0	1	0	0	10	49				
% Approach Total	46.2	7.7	0.0	42.3	3.8	0.0		15.4	46.2	0.0	38.5	0.0		0.0	90.0	0.0	10.0	0.0	0.0						
PHF	0.600	0.250	0.000	0.688	0.250	0.722		0.500	0.375	0.000	0.417	0.000	0.542	0.000	0.450	0.000	0.250	0.000	0.500	0.721					
Entering Leg	12	2	0	11	1	0	26	2	6	0	5	0	13	0	9	0	1	0	0	10	49				
Exiting Leg								23								7								19	49
Total								49								20								29	98

PDI File #: **175536 BBB**
 Location: **S: Somerville Community Path**
 Location: **E: College Avenue W: College Avenue**
 City, State: **Somerville, MA**
 Client: **Toole Design/ W. Haung**
 Site Code: **6036.05**
 Count Date: **Thursday, March 30, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



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Pedestrians

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	39	31	70	0	0	0	47	49	96	0	0	0	2	1	3	169
4:15 PM	0	0	0	39	21	60	0	0	0	38	48	86	0	0	0	3	0	3	149
4:30 PM	0	0	0	42	33	75	0	0	0	40	38	78	0	0	0	0	0	0	153
4:45 PM	0	0	0	40	41	81	0	0	0	42	45	87	0	0	0	1	1	2	170
Total	0	0	0	160	126	286	0	0	0	167	180	347	0	0	0	6	2	8	641
5:00 PM	0	0	0	54	45	99	0	0	0	54	49	103	0	0	0	2	1	3	205
5:15 PM	0	0	0	72	37	109	0	0	0	68	69	137	0	0	0	0	1	1	247
5:30 PM	0	0	0	54	55	109	0	0	0	87	74	161	0	0	0	0	2	2	272
5:45 PM	0	0	0	56	36	92	0	0	0	55	59	114	0	0	0	0	0	0	206
Total	0	0	0	236	173	409	0	0	0	264	251	515	0	0	0	2	4	6	930
Grand Total	0	0	0	396	299	695	0	0	0	431	431	862	0	0	0	8	6	14	1571
Approach %	0.0	0.0	0.0	57.0	43.0		0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	57.1	42.9		
Total %	0.0	0.0	0.0	25.2	19.0	44.2	0.0	0.0	0.0	27.4	27.4	54.9	0.0	0.0	0.0	0.5	0.4	0.9	
Exiting Leg Total	695						862						14						1571

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	0	0	54	45	99	0	0	0	54	49	103	0	0	0	2	1	3	205
5:15 PM	0	0	0	72	37	109	0	0	0	68	69	137	0	0	0	0	1	1	247
5:30 PM	0	0	0	54	55	109	0	0	0	87	74	161	0	0	0	0	2	2	272
5:45 PM	0	0	0	56	36	92	0	0	0	55	59	114	0	0	0	0	0	0	206
Total Volume	0	0	0	236	173	409	0	0	0	264	251	515	0	0	0	2	4	6	930
% Approach Total	0.0	0.0	0.0	57.7	42.3		0.0	0.0	0.0	51.3	48.7		0.0	0.0	0.0	33.3	66.7		
PHF	0.000	0.000	0.000	0.819	0.786	0.938	0.000	0.000	0.000	0.759	0.848	0.800	0.000	0.000	0.000	0.250	0.500	0.500	0.855
Entering Leg	0	0	0	236	173	409	0	0	0	264	251	515	0	0	0	2	4	6	930
Exiting Leg	409						515						6						930
Total	818						1030						12						1860

PDI File #: 175536 BBBB
 Location: S: Somerville Community Path
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Saturday, April 1, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



PRECISION
 DATA
 INDUSTRIES, LLC
 46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars, Heavy Vehicles, and Buses (Combined)

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	86	0	0	86	0	1	0	1	0	64	0	64	151
11:15 AM	79	0	0	79	2	2	0	4	1	56	1	58	141
11:30 AM	61	0	0	61	1	1	0	2	0	55	0	55	118
11:45 AM	85	0	0	85	0	1	0	1	0	60	0	60	146
Total	311	0	0	311	3	5	0	8	1	235	1	237	556
12:00 PM	74	0	0	74	1	3	0	4	0	66	0	66	144
12:15 PM	75	0	0	75	3	3	0	6	0	68	0	68	149
12:30 PM	70	0	0	70	1	0	0	1	0	45	0	45	116
12:45 PM	70	0	0	70	2	3	0	5	0	61	0	61	136
Total	289	0	0	289	7	9	0	16	0	240	0	240	545
1:00 PM	81	0	0	81	5	3	0	8	0	73	0	73	162
1:15 PM	59	0	0	59	0	1	0	1	0	64	0	64	124
1:30 PM	70	0	0	70	0	0	0	0	0	66	0	66	136
1:45 PM	78	0	0	78	2	2	0	4	0	65	0	65	147
Total	288	0	0	288	7	6	0	13	0	268	0	268	569
Grand Total	888	0	0	888	17	20	0	37	1	743	1	745	1670
Approach %	100.0	0.0	0.0		45.9	54.1	0.0		0.1	99.7	0.1		
Total %	53.2	0.0	0.0	53.2	1.0	1.2	0.0	2.2	0.1	44.5	0.1	44.6	
Exiting Leg Total				760				1				909	1670
Cars	862	0	0	862	8	4	0	12	1	739	1	741	1615
% Cars	97.1	0.0	0.0	97.1	47.1	20.0	0.0	32.4	100.0	99.5	100.0	99.5	96.7
Exiting Leg Total				747				1				867	1615
Heavy Vehicles	10	0	0	10	4	0	0	4	0	4	0	4	18
% Heavy Vehicles	1.1	0.0	0.0	1.1	23.5	0.0	0.0	10.8	0.0	0.5	0.0	0.5	1.1
Exiting Leg Total				8				0				10	18
Buses	16	0	0	16	5	16	0	21	0	0	0	0	37
% Buses	1.8	0.0	0.0	1.8	29.4	80.0	0.0	56.8	0.0	0.0	0.0	0.0	2.2
Exiting Leg Total				5				0				32	37

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
1:00 PM	81	0	0	81	5	3	0	8	0	73	0	73	162
1:15 PM	59	0	0	59	0	1	0	1	0	64	0	64	124
1:30 PM	70	0	0	70	0	0	0	0	0	66	0	66	136
1:45 PM	78	0	0	78	2	2	0	4	0	65	0	65	147
Total Volume	288	0	0	288	7	6	0	13	0	268	0	268	569
% Approach Total	100.0	0.0	0.0		53.8	46.2	0.0		0.0	100.0	0.0		
PHF	0.889	0.000	0.000	0.889	0.350	0.500	0.000	0.406	0.000	0.918	0.000	0.918	0.878
Cars	278	0	0	278	3	0	0	3	0	268	0	268	549
Cars %	96.5	0.0	0.0	96.5	42.9	0.0	0.0	23.1	0.0	100.0	0.0	100.0	96.5
Heavy Vehicles	4	0	0	4	4	0	0	4	0	0	0	0	8
Heavy Vehicles %	1.4	0.0	0.0	1.4	57.1	0.0	0.0	30.8	0.0	0.0	0.0	0.0	1.4
Buses	6	0	0	6	0	6	0	6	0	0	0	0	12
Buses %	2.1	0.0	0.0	2.1	0.0	100.0	0.0	46.2	0.0	0.0	0.0	0.0	2.1
Cars Enter Leg	278	0	0	278	3	0	0	3	0	268	0	268	549
Heavy Enter Leg	4	0	0	4	4	0	0	4	0	0	0	0	8
Bus Enter Leg	6	0	0	6	0	6	0	6	0	0	0	0	12
Total Entering Leg	288	0	0	288	7	6	0	13	0	268	0	268	569
Cars Exiting Leg				271				0				278	549
Heavy Exiting Leg				4				0				4	8
Buses Exiting Leg				0				0				12	12
Total Exiting Leg				275				0				294	569

PDI File #: 175536 BBBB
 Location: S: Somerville Community Path
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Saturday, April 1, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



PRECISION
 D A T A
 INDUSTRIES, LLC
 46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	83	0	0	83	0	0	0	0	0	62	0	62	145
11:15 AM	76	0	0	76	1	1	0	2	1	56	1	58	136
11:30 AM	59	0	0	59	0	0	0	0	0	55	0	55	114
11:45 AM	83	0	0	83	0	0	0	0	0	58	0	58	141
Total	301	0	0	301	1	1	0	2	1	231	1	233	536
12:00 PM	74	0	0	74	0	1	0	1	0	66	0	66	141
12:15 PM	72	0	0	72	2	1	0	3	0	68	0	68	143
12:30 PM	68	0	0	68	1	0	0	1	0	45	0	45	114
12:45 PM	69	0	0	69	1	1	0	2	0	61	0	61	132
Total	283	0	0	283	4	3	0	7	0	240	0	240	530
1:00 PM	77	0	0	77	2	0	0	2	0	73	0	73	152
1:15 PM	57	0	0	57	0	0	0	0	0	64	0	64	121
1:30 PM	68	0	0	68	0	0	0	0	0	66	0	66	134
1:45 PM	76	0	0	76	1	0	0	1	0	65	0	65	142
Total	278	0	0	278	3	0	0	3	0	268	0	268	549
Grand Total	862	0	0	862	8	4	0	12	1	739	1	741	1615
Approach %	100.0	0.0	0.0		66.7	33.3	0.0		0.1	99.7	0.1		
Total %	53.4	0.0	0.0	53.4	0.5	0.2	0.0	0.7	0.1	45.8	0.1	45.9	
Exiting Leg Total				747				1				867	1615

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

1:00 PM	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
1:00 PM	77	0	0	77	2	0	0	2	0	73	0	73	152
1:15 PM	57	0	0	57	0	0	0	0	0	64	0	64	121
1:30 PM	68	0	0	68	0	0	0	0	0	66	0	66	134
1:45 PM	76	0	0	76	1	0	0	1	0	65	0	65	142
Total Volume	278	0	0	278	3	0	0	3	0	268	0	268	549
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.903	0.000	0.000	0.903	0.375	0.000	0.000	0.375	0.000	0.918	0.000	0.918	0.903
Entering Leg	278	0	0	278	3	0	0	3	0	268	0	268	549
Exiting Leg				271				0				278	549
Total				549				3				546	1098

PDI File #: 175536 BBBB
 Location: S: Somerville Community Path
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Saturday, April 1, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



PRECISION
 DATA
 INDUSTRIES, LLC

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Heavy Vehicles

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
11:15 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
11:30 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	4	0	0	4	0	0	0	0	0	4	0	4	8
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	2	0	0	2	0	0	0	0	0	0	0	0	2
1:00 PM	1	0	0	1	3	0	0	3	0	0	0	0	4
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	2	0	0	2	0	0	0	0	0	0	0	0	2
1:45 PM	1	0	0	1	1	0	0	1	0	0	0	0	2
Total	4	0	0	4	4	0	0	4	0	0	0	0	8
Grand Total	10	0	0	10	4	0	0	4	0	4	0	4	18
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	55.6	0.0	0.0	55.6	22.2	0.0	0.0	22.2	0.0	22.2	0.0	22.2	
Exiting Leg Total				8				0				10	18

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
11:15 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
11:30 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	0	2	0	2	2
Total Volume	4	0	0	4	0	0	0	0	0	4	0	4	8
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.500
Entering Leg	4	0	0	4	0	0	0	0	0	4	0	4	8
Exiting Leg				4				0				4	8
Total				8				0				8	16

PDI File #: 175536 BBBB
 Location: S: Somerville Community Path
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Saturday, April 1, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



PRECISION
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 INDUSTRIES, LLC

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 Email: datarequests@pdillc.com

Buses

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	1	0	0	1	0	1	0	1	0	0	0	0	2
11:15 AM	2	0	0	2	1	1	0	2	0	0	0	0	4
11:30 AM	1	0	0	1	1	1	0	2	0	0	0	0	3
11:45 AM	2	0	0	2	0	1	0	1	0	0	0	0	3
Total	6	0	0	6	2	4	0	6	0	0	0	0	12
12:00 PM	0	0	0	0	1	2	0	3	0	0	0	0	3
12:15 PM	2	0	0	2	1	2	0	3	0	0	0	0	5
12:30 PM	2	0	0	2	0	0	0	0	0	0	0	0	2
12:45 PM	0	0	0	0	1	2	0	3	0	0	0	0	3
Total	4	0	0	4	3	6	0	9	0	0	0	0	13
1:00 PM	3	0	0	3	0	3	0	3	0	0	0	0	6
1:15 PM	2	0	0	2	0	1	0	1	0	0	0	0	3
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	1	0	0	1	0	2	0	2	0	0	0	0	3
Total	6	0	0	6	0	6	0	6	0	0	0	0	12
Grand Total	16	0	0	16	5	16	0	21	0	0	0	0	37
Approach %	100.0	0.0	0.0		23.8	76.2	0.0		0.0	0.0	0.0		
Total %	43.2	0.0	0.0	43.2	13.5	43.2	0.0	56.8	0.0	0.0	0.0	0.0	
Exiting Leg Total				5				0					32

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				Somerville Community Path				College Avenue				Total
	East				South				West				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:15 PM	2	0	0	2	1	2	0	3	0	0	0	0	5
12:30 PM	2	0	0	2	0	0	0	0	0	0	0	0	2
12:45 PM	0	0	0	0	1	2	0	3	0	0	0	0	3
1:00 PM	3	0	0	3	0	3	0	3	0	0	0	0	6
Total Volume	7	0	0	7	2	7	0	9	0	0	0	0	16
% Approach Total	100.0	0.0	0.0		22.2	77.8	0.0		0.0	0.0	0.0		
PHF	0.583	0.000	0.000	0.583	0.500	0.583	0.000	0.750	0.000	0.000	0.000	0.000	0.667
Entering Leg	7	0	0	7	2	7	0	9	0	0	0	0	16
Exiting Leg				2				0					14
Total				9				9					32

PDI File #: 175536 BBBB
 Location: S: Somerville Community Path
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Saturday, April 1, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



PRECISION
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Bicycles (on Roadway and Crosswalks)

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
1:30 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
Grand Total	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
Approach %	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0		
Total %	50.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	
Exiting Leg Total	1						0						1						2

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
1:30 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
% Approach Total	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0		
PHF	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.500
Entering Leg	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
Exiting Leg	1						0						1						2
Total	2						0						2						4

PDI File #: 175536 BBBB
 Location: S: Somerville Community Path
 Location: E: College Avenue W: College Avenue
 City, State: Somerville, MA
 Client: Toole Design/ W. Haung
 Site Code: 6036.05
 Count Date: Saturday, April 1, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



PRECISION
 D A T A
 INDUSTRIES, LLC

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 Email: datarequests@pdillc.com

Pedestrians

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	12	8	20	0	0	0	23	25	48	0	0	0	1	0	1	69
11:15 AM	0	0	0	16	17	33	0	0	0	23	24	47	0	0	0	1	1	2	82
11:30 AM	0	0	0	23	9	32	0	0	0	37	31	68	0	0	0	0	0	0	100
11:45 AM	0	0	0	23	11	34	0	0	0	29	18	47	0	0	0	0	0	0	81
Total	0	0	0	74	45	119	0	0	0	112	98	210	0	0	0	2	1	3	332
12:00 PM	0	0	0	15	15	30	0	0	0	51	28	79	0	0	0	1	0	1	110
12:15 PM	0	0	0	24	20	44	0	0	0	35	41	76	0	0	0	0	0	0	120
12:30 PM	0	0	0	15	12	27	0	0	0	17	28	45	0	0	0	0	0	0	72
12:45 PM	0	0	0	10	12	22	0	0	0	32	49	81	0	0	0	1	0	1	104
Total	0	0	0	64	59	123	0	0	0	135	146	281	0	0	0	2	0	2	406
1:00 PM	0	0	0	25	6	31	0	0	0	32	38	70	0	0	0	0	0	0	101
1:15 PM	0	0	0	24	21	45	0	0	0	26	28	54	0	0	0	0	0	0	99
1:30 PM	0	0	0	12	19	31	0	0	0	27	34	61	0	0	0	1	0	1	93
1:45 PM	0	0	0	22	17	39	0	0	0	23	20	43	0	0	0	0	1	1	83
Total	0	0	0	83	63	146	0	0	0	108	120	228	0	0	0	1	1	2	376
Grand Total	0	0	0	221	167	388	0	0	0	355	364	719	0	0	0	5	2	7	1114
Approach %	0.0	0.0	0.0	57.0	43.0		0.0	0.0	0.0	49.4	50.6		0.0	0.0	0.0	71.4	28.6		
Total %	0.0	0.0	0.0	19.8	15.0	34.8	0.0	0.0	0.0	31.9	32.7	64.5	0.0	0.0	0.0	0.4	0.2	0.6	
Exiting Leg Total	388						719						7						1114

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue						Somerville Community Path						College Avenue						Total
	East						South						West						
	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	U-Turn	CW-NB	CW-SB	Total	
11:30 AM	0	0	0	23	9	32	0	0	0	37	31	68	0	0	0	0	0	0	100
11:45 AM	0	0	0	23	11	34	0	0	0	29	18	47	0	0	0	0	0	0	81
12:00 PM	0	0	0	15	15	30	0	0	0	51	28	79	0	0	0	1	0	1	110
12:15 PM	0	0	0	24	20	44	0	0	0	35	41	76	0	0	0	0	0	0	120
Total Volume	0	0	0	85	55	140	0	0	0	152	118	270	0	0	0	1	0	1	411
% Approach Total	0.0	0.0	0.0	60.7	39.3		0.0	0.0	0.0	56.3	43.7		0.0	0.0	0.0	100.0	0.0		
PHF	0.000	0.000	0.000	0.885	0.688	0.795	0.000	0.000	0.000	0.745	0.720	0.854	0.000	0.000	0.000	0.250	0.000	0.250	0.856
Entering Leg	0	0	0	85	55	140	0	0	0	152	118	270	0	0	0	1	0	1	411
Exiting Leg	140						270						1						411
Total	280						540						2						822



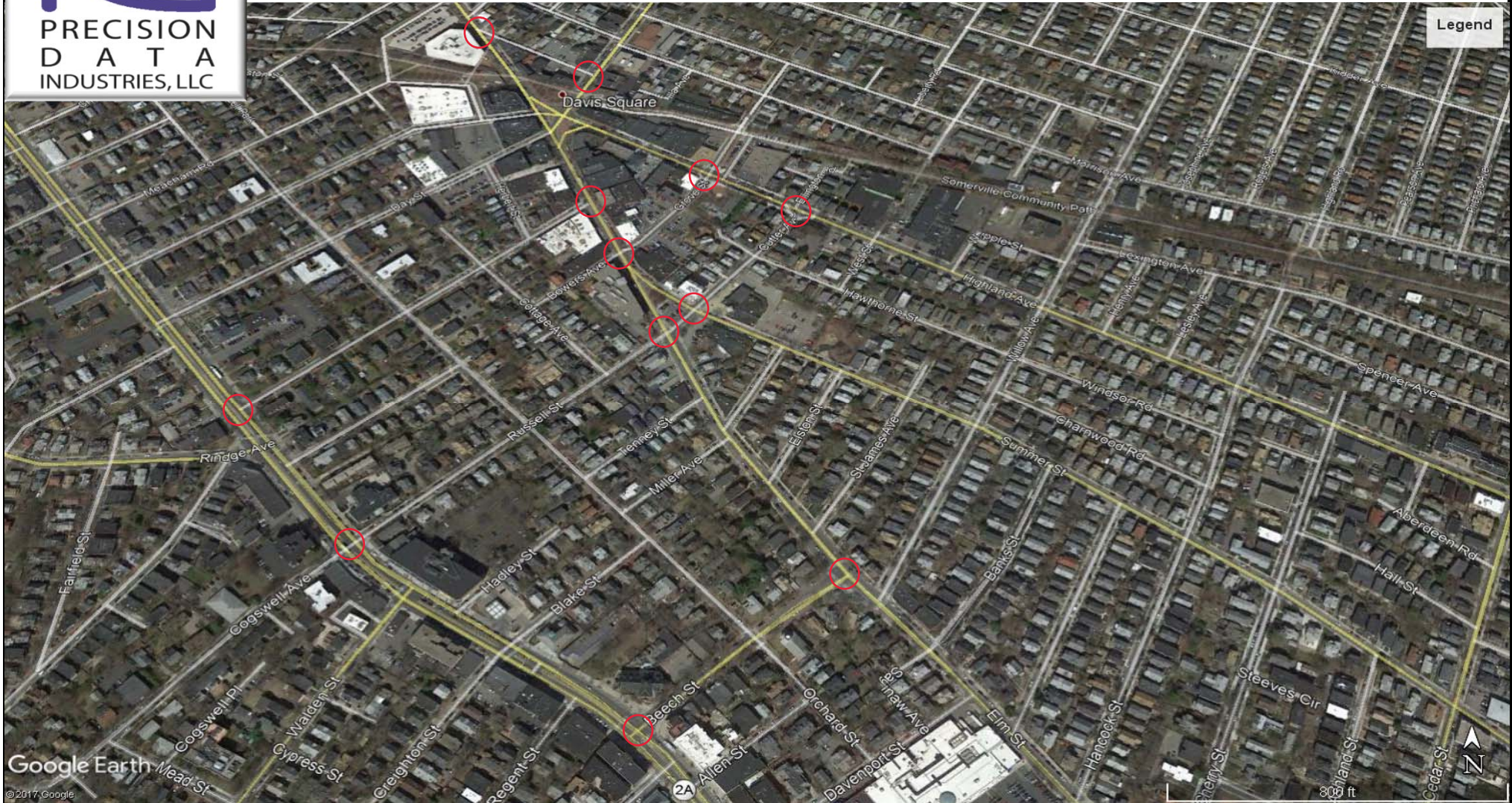
PRECISION
DATA
INDUSTRIES, LLC

PRECISION DATA INDUSTRIES, LLC

Office: 508.875.0100 Fax: 508.875.0118

Email: datarequests@pdillc.com

Traffic Counts with Precision



Client:
Toole Design Group, Inc

Engineer:
H. Georgallas

Site Code:
TBA

Date:
Thurs 11/16 & Sat 11/18/17

PDI Job Number:
175971

City, State:
Somerville, MA

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	9	177	0	186	0	0	0	0	0	0	0	0	0	186
7:15 AM	16	205	0	221	0	0	0	0	0	0	0	0	0	221
7:30 AM	9	189	0	198	0	0	0	0	0	0	0	0	0	198
7:45 AM	18	231	0	249	0	0	0	0	0	0	0	0	0	249
Total	52	802	0	854	0	0	0	0	0	0	0	0	0	854
8:00 AM	20	187	0	207	0	0	0	0	0	0	0	0	0	207
8:15 AM	28	178	0	206	0	0	0	0	0	0	0	0	0	206
8:30 AM	15	223	0	238	0	0	0	0	0	0	0	0	0	238
8:45 AM	14	180	0	194	0	0	0	0	0	0	0	0	0	194
Total	77	768	0	845	0	0	0	0	0	0	0	0	0	845
Grand Total	129	1570	0	1699	0	0	0	0	0	0	0	0	0	1699
Approach %	7.6	92.4	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	7.6	92.4	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				1570					129	1699
Cars	118	1492	0	1610	0	0	0	0	0	0	0	0	0	1610
% Cars	91.5	95.0	0.0	94.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.8
Exiting Leg Total				0				1492					118	1610
Heavy Vehicles	11	78	0	89	0	0	0	0	0	0	0	0	0	89
% Heavy Vehicles	8.5	5.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
Exiting Leg Total				0				78					11	89

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:45 AM	18	231	0	249	0	0	0	0	0	0	0	0	0	249
8:00 AM	20	187	0	207	0	0	0	0	0	0	0	0	0	207
8:15 AM	28	178	0	206	0	0	0	0	0	0	0	0	0	206
8:30 AM	15	223	0	238	0	0	0	0	0	0	0	0	0	238
Total Volume	81	819	0	900	0	0	0	0	0	0	0	0	0	900
% Approach Total	9.0	91.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.723	0.886	0.000	0.904	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.904
Cars	75	776	0	851	0	0	0	0	0	0	0	0	0	851
Cars %	92.6	94.7	0.0	94.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.6
Heavy Vehicles	6	43	0	49	0	0	0	0	0	0	0	0	0	49
Heavy Vehicles %	7.4	5.3	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
Cars Enter Leg	75	776	0	851	0	0	0	0	0	0	0	0	0	851
Heavy Enter Leg	6	43	0	49	0	0	0	0	0	0	0	0	0	49
Total Entering Leg	81	819	0	900	0	0	0	0	0	0	0	0	0	900
Cars Exiting Leg				0				776					75	851
Heavy Exiting Leg				0				43					6	49
Total Exiting Leg				0				819					81	900

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	6	170	0	176	0	0	0	0	0	0	0	0	0	176
7:15 AM	14	192	0	206	0	0	0	0	0	0	0	0	0	206
7:30 AM	9	182	0	191	0	0	0	0	0	0	0	0	0	191
7:45 AM	17	219	0	236	0	0	0	0	0	0	0	0	0	236
Total	46	763	0	809	0	0	0	0	0	0	0	0	0	809
8:00 AM	18	178	0	196	0	0	0	0	0	0	0	0	0	196
8:15 AM	27	166	0	193	0	0	0	0	0	0	0	0	0	193
8:30 AM	13	213	0	226	0	0	0	0	0	0	0	0	0	226
8:45 AM	14	172	0	186	0	0	0	0	0	0	0	0	0	186
Total	72	729	0	801	0	0	0	0	0	0	0	0	0	801
Grand Total	118	1492	0	1610	0	0	0	0	0	0	0	0	0	1610
Approach %	7.3	92.7	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	7.3	92.7	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0			
Exiting Leg Total				0				1492					118	1610

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:45 AM	17	219	0	236	0	0	0	0	0	0	0	0	0	236
8:00 AM	18	178	0	196	0	0	0	0	0	0	0	0	0	196
8:15 AM	27	166	0	193	0	0	0	0	0	0	0	0	0	193
8:30 AM	13	213	0	226	0	0	0	0	0	0	0	0	0	226
Total Volume	75	776	0	851	0	0	0	0	0	0	0	0	0	851
% Approach Total	8.8	91.2	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.694	0.886	0.000	0.901	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.901
Entering Leg	75	776	0	851	0	0	0	0	0	0	0	0	0	851
Exiting Leg				0				776					75	851
Total				851				776					75	1702

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	3	7	0	10	0	0	0	0	0	0	0	0	0	10
7:15 AM	2	13	0	15	0	0	0	0	0	0	0	0	0	15
7:30 AM	0	7	0	7	0	0	0	0	0	0	0	0	0	7
7:45 AM	1	12	0	13	0	0	0	0	0	0	0	0	0	13
Total	6	39	0	45	0	0	0	0	0	0	0	0	0	45
8:00 AM	2	9	0	11	0	0	0	0	0	0	0	0	0	11
8:15 AM	1	12	0	13	0	0	0	0	0	0	0	0	0	13
8:30 AM	2	10	0	12	0	0	0	0	0	0	0	0	0	12
8:45 AM	0	8	0	8	0	0	0	0	0	0	0	0	0	8
Total	5	39	0	44	0	0	0	0	0	0	0	0	0	44
Grand Total	11	78	0	89	0	0	0	0	0	0	0	0	0	89
Approach %	12.4	87.6	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	12.4	87.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				78					11	89
Large Trucks	11	39	0	50	0	0	0	0	0	0	0	0	0	50
% Large Trucks	100.0	50.0	0.0	56.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.2
Exiting Leg Total				0				39					11	50
Buses	0	39	0	39	0	0	0	0	0	0	0	0	0	39
% Buses	0.0	50.0	0.0	43.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.8
Exiting Leg Total				0				39					0	39

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:45 AM	1	12	0	13	0	0	0	0	0	0	0	0	0	13
8:00 AM	2	9	0	11	0	0	0	0	0	0	0	0	0	11
8:15 AM	1	12	0	13	0	0	0	0	0	0	0	0	0	13
8:30 AM	2	10	0	12	0	0	0	0	0	0	0	0	0	12
Total Volume	6	43	0	49	0	0	0	0	0	0	0	0	0	49
% Approach Total	12.2	87.8	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.750	0.896	0.000	0.942	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.942
Large Trucks	6	22	0	28	0	0	0	0	0	0	0	0	0	28
Large Trucks %	100.0	51.2	0.0	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.1
Buses	0	21	0	21	0	0	0	0	0	0	0	0	0	21
Buses %	0.0	48.8	0.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9
Trucks Enter Leg	6	22	0	28	0	0	0	0	0	0	0	0	0	28
Bus Enter Leg	0	21	0	21	0	0	0	0	0	0	0	0	0	21
Total Entering Leg	6	43	0	49	0	0	0	0	0	0	0	0	0	49
Trucks Exiting Leg				0				22					6	28
Buses Exiting Leg				0				21					0	21
Total Exiting Leg				0				43					6	49

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	3	3	0	6	0	0	0	0	0	0	0	0	0	6
7:15 AM	2	7	0	9	0	0	0	0	0	0	0	0	0	9
7:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
7:45 AM	1	6	0	7	0	0	0	0	0	0	0	0	0	7
Total	6	19	0	25	0	0	0	0	0	0	0	0	0	25
8:00 AM	2	5	0	7	0	0	0	0	0	0	0	0	0	7
8:15 AM	1	6	0	7	0	0	0	0	0	0	0	0	0	7
8:30 AM	2	5	0	7	0	0	0	0	0	0	0	0	0	7
8:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total	5	20	0	25	0	0	0	0	0	0	0	0	0	25
Grand Total	11	39	0	50	0	0	0	0	0	0	0	0	0	50
Approach %	22.0	78.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	22.0	78.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				39					11	50

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:45 AM	1	6	0	7	0	0	0	0	0	0	0	0	0	7
8:00 AM	2	5	0	7	0	0	0	0	0	0	0	0	0	7
8:15 AM	1	6	0	7	0	0	0	0	0	0	0	0	0	7
8:30 AM	2	5	0	7	0	0	0	0	0	0	0	0	0	7
Total Volume	6	22	0	28	0	0	0	0	0	0	0	0	0	28
% Approach Total	21.4	78.6	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.750	0.917	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
Entering Leg	6	22	0	28	0	0	0	0	0	0	0	0	0	28
Exiting Leg				0				22					6	28
Total				28				22					6	56

PDI File #: **175971 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
7:15 AM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
7:30 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
7:45 AM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
Total	0	20	0	20	0	0	0	0	0	0	0	0	0	20
8:00 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
8:15 AM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
8:30 AM	0	5	0	5	0	0	0	0	0	0	0	0	0	5
8:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total	0	19	0	19	0	0	0	0	0	0	0	0	0	19
Grand Total	0	39	0	39	0	0	0	0	0	0	0	0	0	39
Approach %	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				39					0	39

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:45 AM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
8:00 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
8:15 AM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
8:30 AM	0	5	0	5	0	0	0	0	0	0	0	0	0	5
Total Volume	0	21	0	21	0	0	0	0	0	0	0	0	0	21
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.875	0.000	0.875	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.875
Entering Leg	0	21	0	21	0	0	0	0	0	0	0	0	0	21
Exiting Leg				0				21					0	21
Total				21				21					0	42

PDI File #: **175971 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
7:15 AM	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
7:30 AM	0	16	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
7:45 AM	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	0	43	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	43
8:00 AM	0	24	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	24
8:15 AM	0	17	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
8:30 AM	1	23	0	1	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
8:45 AM	0	19	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	1	83	0	1	0	85	0	0	0	0	0	0	0	0	0	0	0	0	85
Grand Total	1	126	0	1	0	128	0	0	0	0	0	0	0	0	0	0	0	0	128
Approach %	0.8	98.4	0.0	0.8	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.8	98.4	0.0	0.8	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total						1						126						1	128

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	24	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	24
8:15 AM	0	17	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
8:30 AM	1	23	0	1	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
8:45 AM	0	19	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Total Volume	1	83	0	1	0	85	0	0	0	0	0	0	0	0	0	0	0	0	85
% Approach Total	1.2	97.6	0.0	1.2	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.250	0.865	0.000	0.250	0.000	0.850	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.850
Entering Leg	1	83	0	1	0	85	0	0	0	0	0	0	0	0	0	0	0	0	85
Exiting Leg						1						83						1	85
Total						86						83						1	170

PDI File #: **175971 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	4	1	5	0	0	0	1	2	3	0	0	0	8	14	22	30
7:15 AM	0	0	0	2	3	5	0	0	0	5	5	10	0	0	0	11	15	26	41
7:30 AM	0	0	0	5	1	6	0	0	0	3	2	5	0	0	0	14	20	34	45
7:45 AM	0	0	0	2	4	6	0	0	0	2	2	4	0	0	0	23	27	50	60
Total	0	0	0	13	9	22	0	0	0	11	11	22	0	0	0	56	76	132	176
8:00 AM	0	0	0	5	11	16	0	0	0	0	4	4	0	0	0	14	25	39	59
8:15 AM	0	0	0	5	5	10	0	0	0	5	2	7	0	0	0	28	24	52	69
8:30 AM	0	0	0	18	6	24	0	0	0	3	7	10	0	0	0	24	31	55	89
8:45 AM	0	0	0	10	3	13	0	0	0	7	6	13	0	0	0	21	20	41	67
Total	0	0	0	38	25	63	0	0	0	15	19	34	0	0	0	87	100	187	284
Grand Total	0	0	0	51	34	85	0	0	0	26	30	56	0	0	0	143	176	319	460
Approach %	0.0	0.0	0.0	60.0	40.0		0.0	0.0	0.0	46.4	53.6		0.0	0.0	0.0	44.8	55.2		
Total %	0.0	0.0	0.0	11.1	7.4	18.5	0.0	0.0	0.0	5.7	6.5	12.2	0.0	0.0	0.0	31.1	38.3	69.3	
Exiting Leg Total	85						56						319						460

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	0	0	5	11	16	0	0	0	0	4	4	0	0	0	14	25	39	59
8:15 AM	0	0	0	5	5	10	0	0	0	5	2	7	0	0	0	28	24	52	69
8:30 AM	0	0	0	18	6	24	0	0	0	3	7	10	0	0	0	24	31	55	89
8:45 AM	0	0	0	10	3	13	0	0	0	7	6	13	0	0	0	21	20	41	67
Total Volume	0	0	0	38	25	63	0	0	0	15	19	34	0	0	0	87	100	187	284
% Approach Total	0.0	0.0	0.0	60.3	39.7		0.0	0.0	0.0	44.1	55.9		0.0	0.0	0.0	46.5	53.5		
PHF	0.000	0.000	0.000	0.528	0.568	0.656	0.000	0.000	0.000	0.536	0.679	0.654	0.000	0.000	0.000	0.777	0.806	0.850	0.798
Entering Leg	0	0	0	38	25	63	0	0	0	15	19	34	0	0	0	87	100	187	284
Exiting Leg	63						34						187						284
Total	126						68						374						568

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	18	150	0	168	0	0	0	0	0	0	0	0	0	168
4:15 PM	26	150	0	176	0	0	0	0	0	0	0	0	0	176
4:30 PM	27	150	0	177	0	0	0	0	0	0	0	0	0	177
4:45 PM	38	145	0	183	0	0	0	0	0	0	0	0	0	183
Total	109	595	0	704	0	0	0	0	0	0	0	0	0	704
5:00 PM	20	155	0	175	0	0	0	0	0	0	0	0	0	175
5:15 PM	25	161	0	186	0	0	0	0	0	0	0	0	0	186
5:30 PM	41	166	0	207	0	0	0	0	0	0	0	0	0	207
5:45 PM	27	143	0	170	0	0	0	0	0	0	0	0	0	170
Total	113	625	0	738	0	0	0	0	0	0	0	0	0	738
Grand Total	222	1220	0	1442	0	0	0	0	0	0	0	0	0	1442
Approach %	15.4	84.6	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	15.4	84.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				1220					222	1442
Cars	221	1178	0	1399	0	0	0	0	0	0	0	0	0	1399
% Cars	99.5	96.6	0.0	97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.0
Exiting Leg Total				0				1178					221	1399
Heavy Vehicles	1	42	0	43	0	0	0	0	0	0	0	0	0	43
% Heavy Vehicles	0.5	3.4	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Exiting Leg Total				0				42					1	43

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:45 PM	38	145	0	183	0	0	0	0	0	0	0	0	0	183
5:00 PM	20	155	0	175	0	0	0	0	0	0	0	0	0	175
5:15 PM	25	161	0	186	0	0	0	0	0	0	0	0	0	186
5:30 PM	41	166	0	207	0	0	0	0	0	0	0	0	0	207
Total Volume	124	627	0	751	0	0	0	0	0	0	0	0	0	751
% Approach Total	16.5	83.5	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.756	0.944	0.000	0.907	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.907
Cars	124	607	0	731	0	0	0	0	0	0	0	0	0	731
Cars %	100.0	96.8	0.0	97.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.3
Heavy Vehicles	0	20	0	20	0	0	0	0	0	0	0	0	0	20
Heavy Vehicles %	0.0	3.2	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Cars Enter Leg	124	607	0	731	0	0	0	0	0	0	0	0	0	731
Heavy Enter Leg	0	20	0	20	0	0	0	0	0	0	0	0	0	20
Total Entering Leg	124	627	0	751	0	0	0	0	0	0	0	0	0	751
Cars Exiting Leg				0				607					124	731
Heavy Exiting Leg				0				20					0	20
Total Exiting Leg				0				627					124	751

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	18	143	0	161	0	0	0	0	0	0	0	0	0	161
4:15 PM	26	144	0	170	0	0	0	0	0	0	0	0	0	170
4:30 PM	27	144	0	171	0	0	0	0	0	0	0	0	0	171
4:45 PM	38	143	0	181	0	0	0	0	0	0	0	0	0	181
Total	109	574	0	683	0	0	0	0	0	0	0	0	0	683
5:00 PM	20	152	0	172	0	0	0	0	0	0	0	0	0	172
5:15 PM	25	153	0	178	0	0	0	0	0	0	0	0	0	178
5:30 PM	41	159	0	200	0	0	0	0	0	0	0	0	0	200
5:45 PM	26	140	0	166	0	0	0	0	0	0	0	0	0	166
Total	112	604	0	716	0	0	0	0	0	0	0	0	0	716
Grand Total	221	1178	0	1399	0	0	0	0	0	0	0	0	0	1399
Approach %	15.8	84.2	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	15.8	84.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				1178					221	1399

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:45 PM	38	143	0	181	0	0	0	0	0	0	0	0	0	181
5:00 PM	20	152	0	172	0	0	0	0	0	0	0	0	0	172
5:15 PM	25	153	0	178	0	0	0	0	0	0	0	0	0	178
5:30 PM	41	159	0	200	0	0	0	0	0	0	0	0	0	200
Total Volume	124	607	0	731	0	0	0	0	0	0	0	0	0	731
% Approach Total	17.0	83.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.756	0.954	0.000	0.914	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.914
Entering Leg	124	607	0	731	0	0	0	0	0	0	0	0	0	731
Exiting Leg				0				607					124	731
Total				731				607					124	1462

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	0	7	0	7	0	0	0	0	0	0	0	0	0	7
4:15 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
4:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
4:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	0	21	0	21	0	0	0	0	0	0	0	0	0	21
5:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	8	0	8	0	0	0	0	0	0	0	0	0	8
5:30 PM	0	7	0	7	0	0	0	0	0	0	0	0	0	7
5:45 PM	1	3	0	4	0	0	0	0	0	0	0	0	0	4
Total	1	21	0	22	0	0	0	0	0	0	0	0	0	22
Grand Total	1	42	0	43	0	0	0	0	0	0	0	0	0	43
Approach %	2.3	97.7	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	2.3	97.7	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0				42				1				43	
Large Trucks	1	7	0	8	0	0	0	0	0	0	0	0	0	8
% Large Trucks	100.0	16.7	0.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6
Exiting Leg Total	0				7				1				8	
Buses	0	35	0	35	0	0	0	0	0	0	0	0	0	35
% Buses	0.0	83.3	0.0	81.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.4
Exiting Leg Total	0				35				0				35	

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
5:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	8	0	8	0	0	0	0	0	0	0	0	0	8
5:30 PM	0	7	0	7	0	0	0	0	0	0	0	0	0	7
5:45 PM	1	3	0	4	0	0	0	0	0	0	0	0	0	4
Total Volume	1	21	0	22	0	0	0	0	0	0	0	0	0	22
% Approach Total	4.5	95.5	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.250	0.656	0.000	0.688	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.688
Large Trucks	1	4	0	5	0	0	0	0	0	0	0	0	0	5
Large Trucks %	100.0	19.0	0.0	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7
Buses	0	17	0	17	0	0	0	0	0	0	0	0	0	17
Buses %	0.0	81.0	0.0	77.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.3
Trucks Enter Leg	1	4	0	5	0	0	0	0	0	0	0	0	0	5
Bus Enter Leg	0	17	0	17	0	0	0	0	0	0	0	0	0	17
Total Entering Leg	1	21	0	22	0	0	0	0	0	0	0	0	0	22
Trucks Exiting Leg	0				4				1				5	
Buses Exiting Leg	0				17				0				17	
Total Exiting Leg	0				21				1				22	

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	3	0	0	0	0	0	0	0	0	0	3
5:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
5:45 PM	1	1	0	2	0	0	0	0	0	0	0	0	0	2
Total	1	4	0	5	0	0	0	0	0	0	0	0	0	5
Grand Total	1	7	0	8	0	0	0	0	0	0	0	0	0	8
Approach %	12.5	87.5	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	12.5	87.5	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				7					1	8

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
5:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
5:45 PM	1	1	0	2	0	0	0	0	0	0	0	0	0	2
Total Volume	1	4	0	5	0	0	0	0	0	0	0	0	0	5
% Approach Total	20.0	80.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.250	1.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625
Entering Leg	1	4	0	5	0	0	0	0	0	0	0	0	0	5
Exiting Leg				0				4					1	5
Total				5				4					1	10

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
4:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
4:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	0	18	0	18	0	0	0	0	0	0	0	0	0	18
5:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	7	0	7	0	0	0	0	0	0	0	0	0	7
5:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
5:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	0	17	0	17	0	0	0	0	0	0	0	0	0	17
Grand Total	0	35	0	35	0	0	0	0	0	0	0	0	0	35
Approach %	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				35					0	35

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
4:30 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
4:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total Volume	0	18	0	18	0	0	0	0	0	0	0	0	0	18
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.750	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	18	0	18	0	0	0	0	0	0	0	0	0	18
Exiting Leg				0				18					0	18
Total				18				18					0	36

PDI File #: **175971 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	2	3
4:15 PM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
4:30 PM	0	4	0	0	0	4	0	0	0	0	1	1	0	0	0	0	0	0	5
4:45 PM	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	1	4
Total	0	13	0	0	0	13	0	0	0	0	1	1	0	0	0	1	2	3	17
5:00 PM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	1	5	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
5:30 PM	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
5:45 PM	1	6	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	2	23	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
Grand Total	2	36	0	0	0	38	0	0	0	0	1	1	0	0	0	1	2	3	42
Approach %	5.3	94.7	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	33.3	66.7		
Total %	4.8	85.7	0.0	0.0	0.0	90.5	0.0	0.0	0.0	0.0	2.4	2.4	0.0	0.0	0.0	2.4	4.8	7.1	
Exiting Leg Total	0						37						5						42

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	1	5	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
5:30 PM	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
5:45 PM	1	6	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Total Volume	2	23	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
% Approach Total	8.0	92.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
PHF	0.500	0.719	0.000	0.000	0.000	0.781	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.781
Entering Leg	2	23	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
Exiting Leg	0						23						2						25
Total	25						23						2						50

PDI File #: **175971 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	20	15	35	0	0	0	5	9	14	0	0	0	40	61	101	150
4:15 PM	0	0	0	17	12	29	0	0	0	11	15	26	0	0	0	39	57	96	151
4:30 PM	0	0	0	16	16	32	0	0	0	11	12	23	0	0	0	39	44	83	138
4:45 PM	0	0	0	16	8	24	0	0	0	16	9	25	0	0	0	38	46	84	133
Total	0	0	0	69	51	120	0	0	0	43	45	88	0	0	0	156	208	364	572
5:00 PM	0	0	0	22	23	45	0	0	0	6	13	19	0	0	0	43	76	119	183
5:15 PM	0	0	0	21	19	40	0	0	0	6	16	22	0	0	0	52	89	141	203
5:30 PM	0	0	0	35	25	60	0	0	0	10	21	31	0	0	0	60	102	162	253
5:45 PM	0	0	0	31	20	51	0	0	0	12	41	53	0	0	0	81	121	202	306
Total	0	0	0	109	87	196	0	0	0	34	91	125	0	0	0	236	388	624	945
Grand Total	0	0	0	178	138	316	0	0	0	77	136	213	0	0	0	392	596	988	1517
Approach %	0.0	0.0	0.0	56.3	43.7		0.0	0.0	0.0	36.2	63.8		0.0	0.0	0.0	39.7	60.3		
Total %	0.0	0.0	0.0	11.7	9.1	20.8	0.0	0.0	0.0	5.1	9.0	14.0	0.0	0.0	0.0	25.8	39.3	65.1	
Exiting Leg Total						316						213						988	1517

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	0	0	22	23	45	0	0	0	6	13	19	0	0	0	43	76	119	183
5:15 PM	0	0	0	21	19	40	0	0	0	6	16	22	0	0	0	52	89	141	203
5:30 PM	0	0	0	35	25	60	0	0	0	10	21	31	0	0	0	60	102	162	253
5:45 PM	0	0	0	31	20	51	0	0	0	12	41	53	0	0	0	81	121	202	306
Total Volume	0	0	0	109	87	196	0	0	0	34	91	125	0	0	0	236	388	624	945
% Approach Total	0.0	0.0	0.0	55.6	44.4		0.0	0.0	0.0	27.2	72.8		0.0	0.0	0.0	37.8	62.2		
PHF	0.000	0.000	0.000	0.779	0.870	0.817	0.000	0.000	0.000	0.708	0.555	0.590	0.000	0.000	0.000	0.728	0.802	0.772	0.772
Entering Leg	0	0	0	109	87	196	0	0	0	34	91	125	0	0	0	236	388	624	945
Exiting Leg						196						125						624	945
Total						392						250						1248	1890

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	20	144	0	164	0	0	0	0	0	0	0	0	0	164
11:15 AM	36	171	0	207	0	0	0	0	0	0	0	0	0	207
11:30 AM	32	178	0	210	0	0	0	0	0	0	0	0	0	210
11:45 AM	37	172	0	209	0	0	0	0	0	0	0	0	0	209
Total	125	665	0	790	0	0	0	0	0	0	0	0	0	790
12:00 PM	37	189	0	226	0	0	0	0	0	0	0	0	0	226
12:15 PM	31	173	0	204	0	0	0	0	0	0	0	0	0	204
12:30 PM	33	162	0	195	0	0	0	0	0	0	0	0	0	195
12:45 PM	44	151	0	195	0	0	0	0	0	0	0	0	0	195
Total	145	675	0	820	0	0	0	0	0	0	0	0	0	820
1:00 PM	34	147	0	181	0	0	0	0	0	0	0	0	0	181
1:15 PM	42	182	0	224	0	0	0	0	0	0	0	0	0	224
1:30 PM	31	165	0	196	0	0	0	0	0	0	0	0	0	196
1:45 PM	34	173	0	207	0	0	0	0	0	0	0	0	0	207
Total	141	667	0	808	0	0	0	0	0	0	0	0	0	808
Grand Total	411	2007	0	2418	0	0	0	0	0	0	0	0	0	2418
Approach %	17.0	83.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	17.0	83.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0				2007				411				2418	
Cars	408	1954	0	2362	0	0	0	0	0	0	0	0	0	2362
% Cars	99.3	97.4	0.0	97.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.7
Exiting Leg Total	0				1954				408				2362	
Heavy Vehicles	3	53	0	56	0	0	0	0	0	0	0	0	0	56
% Heavy Vehicles	0.7	2.6	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Exiting Leg Total	0				53				3				56	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:15 AM	36	171	0	207	0	0	0	0	0	0	0	0	0	207
11:30 AM	32	178	0	210	0	0	0	0	0	0	0	0	0	210
11:45 AM	37	172	0	209	0	0	0	0	0	0	0	0	0	209
12:00 PM	37	189	0	226	0	0	0	0	0	0	0	0	0	226
Total Volume	142	710	0	852	0	0	0	0	0	0	0	0	0	852
% Approach Total	16.7	83.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.959	0.939	0.000	0.942	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.942
Cars	140	693	0	833	0	0	0	0	0	0	0	0	0	833
Cars %	98.6	97.6	0.0	97.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.8
Heavy Vehicles	2	17	0	19	0	0	0	0	0	0	0	0	0	19
Heavy Vehicles %	1.4	2.4	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Cars Enter Leg	140	693	0	833	0	0	0	0	0	0	0	0	0	833
Heavy Enter Leg	2	17	0	19	0	0	0	0	0	0	0	0	0	19
Total Entering Leg	142	710	0	852	0	0	0	0	0	0	0	0	0	852
Cars Exiting Leg	0				693				140				833	
Heavy Exiting Leg	0				17				2				19	
Total Exiting Leg	0				710				142				852	

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	20	138	0	158	0	0	0	0	0	0	0	0	0	158
11:15 AM	34	165	0	199	0	0	0	0	0	0	0	0	0	199
11:30 AM	32	176	0	208	0	0	0	0	0	0	0	0	0	208
11:45 AM	37	169	0	206	0	0	0	0	0	0	0	0	0	206
Total	123	648	0	771	0	0	0	0	0	0	0	0	0	771
12:00 PM	37	183	0	220	0	0	0	0	0	0	0	0	0	220
12:15 PM	30	168	0	198	0	0	0	0	0	0	0	0	0	198
12:30 PM	33	160	0	193	0	0	0	0	0	0	0	0	0	193
12:45 PM	44	148	0	192	0	0	0	0	0	0	0	0	0	192
Total	144	659	0	803	0	0	0	0	0	0	0	0	0	803
1:00 PM	34	142	0	176	0	0	0	0	0	0	0	0	0	176
1:15 PM	42	173	0	215	0	0	0	0	0	0	0	0	0	215
1:30 PM	31	165	0	196	0	0	0	0	0	0	0	0	0	196
1:45 PM	34	167	0	201	0	0	0	0	0	0	0	0	0	201
Total	141	647	0	788	0	0	0	0	0	0	0	0	0	788
Grand Total	408	1954	0	2362	0	0	0	0	0	0	0	0	0	2362
Approach %	17.3	82.7	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	17.3	82.7	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				1954					408	2362

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:15 AM	34	165	0	199	0	0	0	0	0	0	0	0	0	199
11:30 AM	32	176	0	208	0	0	0	0	0	0	0	0	0	208
11:45 AM	37	169	0	206	0	0	0	0	0	0	0	0	0	206
12:00 PM	37	183	0	220	0	0	0	0	0	0	0	0	0	220
Total Volume	140	693	0	833	0	0	0	0	0	0	0	0	0	833
% Approach Total	16.8	83.2	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.946	0.947	0.000	0.947	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.947
Entering Leg	140	693	0	833	0	0	0	0	0	0	0	0	0	833
Exiting Leg				0				693				140		833
Total				833				693				140		1666

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
11:15 AM	2	6	0	8	0	0	0	0	0	0	0	0	0	8
11:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
11:45 AM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
Total	2	17	0	19	0	0	0	0	0	0	0	0	0	19
12:00 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
12:15 PM	1	5	0	6	0	0	0	0	0	0	0	0	0	6
12:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:45 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
Total	1	16	0	17	0	0	0	0	0	0	0	0	0	17
1:00 PM	0	5	0	5	0	0	0	0	0	0	0	0	0	5
1:15 PM	0	9	0	9	0	0	0	0	0	0	0	0	0	9
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
Total	0	20	0	20	0	0	0	0	0	0	0	0	0	20
Grand Total	3	53	0	56	0	0	0	0	0	0	0	0	0	56
Approach %	5.4	94.6	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	5.4	94.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0				53				3				56	
Large Trucks	1	27	0	28	0	0	0	0	0	0	0	0	0	28
% Large Trucks	33.3	50.9	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Exiting Leg Total	0				27				1				28	
Buses	2	26	0	28	0	0	0	0	0	0	0	0	0	28
% Buses	66.7	49.1	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Exiting Leg Total	0				26				2				28	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
1:00 PM	0	5	0	5	0	0	0	0	0	0	0	0	0	5
1:15 PM	0	9	0	9	0	0	0	0	0	0	0	0	0	9
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
Total Volume	0	20	0	20	0	0	0	0	0	0	0	0	0	20
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.556	0.000	0.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.556
Large Trucks	0	10	0	10	0	0	0	0	0	0	0	0	0	10
Large Trucks %	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Buses	0	10	0	10	0	0	0	0	0	0	0	0	0	10
Buses %	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Trucks Enter Leg	0	10	0	10	0	0	0	0	0	0	0	0	0	10
Bus Enter Leg	0	10	0	10	0	0	0	0	0	0	0	0	0	10
Total Entering Leg	0	20	0	20	0	0	0	0	0	0	0	0	0	20
Trucks Exiting Leg	0				10				0				10	
Buses Exiting Leg	0				10				0				10	
Total Exiting Leg	0				20				0				20	

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	5	0	5	0	0	0	0	0	0	0	0	0	5
11:15 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	9	0	9	0	0	0	0	0	0	0	0	0	9
12:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:15 PM	1	3	0	4	0	0	0	0	0	0	0	0	0	4
12:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	1	8	0	9	0	0	0	0	0	0	0	0	0	9
1:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
1:15 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total	0	10	0	10	0	0	0	0	0	0	0	0	0	10
Grand Total	1	27	0	28	0	0	0	0	0	0	0	0	0	28
Approach %	3.6	96.4	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	3.6	96.4	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				27					1	28

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
12:15 PM	1	3	0	4	0	0	0	0	0	0	0	0	0	4
12:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
1:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
Total Volume	1	9	0	10	0	0	0	0	0	0	0	0	0	10
% Approach Total	10.0	90.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.250	0.750	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625
Entering Leg	1	9	0	10	0	0	0	0	0	0	0	0	0	10
Exiting Leg				0				9					1	10
Total				10				9					1	20

PDI File #: 175971 A
 Location: N: Elm Street S: Elm Street
 Location: W: Chester Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:15 AM	2	4	0	6	0	0	0	0	0	0	0	0	0	6
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	2	8	0	10	0	0	0	0	0	0	0	0	0	10
12:00 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
12:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	8	0	8	0	0	0	0	0	0	0	0	0	8
1:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
1:15 PM	0	6	0	6	0	0	0	0	0	0	0	0	0	6
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
Total	0	10	0	10	0	0	0	0	0	0	0	0	0	10
Grand Total	2	26	0	28	0	0	0	0	0	0	0	0	0	28
Approach %	7.1	92.9	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
Total %	7.1	92.9	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				0				26					2	28

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street				Elm Street				Chester Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:15 AM	2	4	0	6	0	0	0	0	0	0	0	0	0	6
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	2
12:00 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total Volume	2	11	0	13	0	0	0	0	0	0	0	0	0	13
% Approach Total	15.4	84.6	0.0		0.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.250	0.688	0.000	0.542	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.542
Entering Leg	2	11	0	13	0	0	0	0	0	0	0	0	0	13
Exiting Leg				0				11					2	13
Total				13				11					2	26

PDI File #: **175971 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

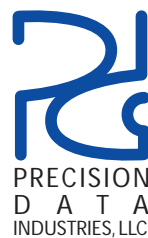
Bicycles (on Roadway and Crosswalks)

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
11:15 AM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
11:30 AM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
11:45 AM	1	10	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	1	23	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	24
12:00 PM	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
12:15 PM	0	16	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
12:30 PM	1	18	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
12:45 PM	0	9	0	0	0	9	0	0	0	1	0	1	0	0	0	0	0	0	10
Total	1	52	0	0	0	53	0	0	0	1	0	1	0	0	0	0	0	0	54
1:00 PM	0	11	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
1:15 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
1:30 PM	0	8	0	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
1:45 PM	1	12	0	0	0	13	0	0	0	0	0	0	0	0	0	0	1	1	14
Total	1	33	0	1	0	35	0	0	0	0	0	0	0	0	0	0	1	1	36
Grand Total	3	108	0	1	0	112	0	0	0	1	0	1	0	0	0	0	1	1	114
Approach %	2.7	96.4	0.0	0.9	0.0		0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	100.0		
Total %	2.6	94.7	0.0	0.9	0.0	98.2	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	
Exiting Leg Total	1						109						4						114

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
12:15 PM	0	16	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
12:30 PM	1	18	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
12:45 PM	0	9	0	0	0	9	0	0	0	1	0	1	0	0	0	0	0	0	10
1:00 PM	0	11	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Total Volume	1	54	0	0	0	55	0	0	0	1	0	1	0	0	0	0	0	0	56
% Approach Total	1.8	98.2	0.0	0.0	0.0		0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	0.0		
PHF	0.250	0.750	0.000	0.000	0.000	0.724	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.737
Entering Leg	1	54	0	0	0	55	0	0	0	1	0	1	0	0	0	0	0	0	56
Exiting Leg	0						55						1						56
Total	55						56						1						112

PDI File #: **175971 A**
 Location: **N: Elm Street S: Elm Street**
 Location: **W: Chester Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	35	19	54	0	0	0	13	21	34	0	0	0	51	78	129	217
11:15 AM	0	0	0	21	21	42	0	0	0	15	26	41	0	0	0	43	71	114	197
11:30 AM	0	0	0	29	17	46	0	0	0	19	24	43	0	0	0	66	85	151	240
11:45 AM	0	0	0	23	13	36	0	0	0	18	24	42	0	0	0	73	84	157	235
Total	0	0	0	108	70	178	0	0	0	65	95	160	0	0	0	233	318	551	889
12:00 PM	0	0	0	31	23	54	0	0	0	16	22	38	0	0	0	76	93	169	261
12:15 PM	0	0	0	23	24	47	0	0	0	21	25	46	0	0	0	66	85	151	244
12:30 PM	0	0	0	22	26	48	0	0	0	16	25	41	0	0	0	59	117	176	265
12:45 PM	0	0	0	25	31	56	0	0	0	20	38	58	0	0	0	86	112	198	312
Total	0	0	0	101	104	205	0	0	0	73	110	183	0	0	0	287	407	694	1082
1:00 PM	0	0	0	37	36	73	0	0	0	15	42	57	0	0	0	55	77	132	262
1:15 PM	0	0	0	25	24	49	0	0	0	20	27	47	0	0	0	80	107	187	283
1:30 PM	0	0	0	27	47	74	0	0	0	23	43	66	0	0	0	99	145	244	384
1:45 PM	0	0	0	24	32	56	0	0	0	18	50	68	0	0	0	80	132	212	336
Total	0	0	0	113	139	252	0	0	0	76	162	238	0	0	0	314	461	775	1265
Grand Total	0	0	0	322	313	635	0	0	0	214	367	581	0	0	0	834	1186	2020	3236
Approach %	0.0	0.0	0.0	50.7	49.3		0.0	0.0	0.0	36.8	63.2		0.0	0.0	0.0	41.3	58.7		
Total %	0.0	0.0	0.0	10.0	9.7	19.6	0.0	0.0	0.0	6.6	11.3	18.0	0.0	0.0	0.0	25.8	36.7	62.4	
Exiting Leg Total	635						581						2020						3236

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street						Elm Street						Chester Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
1:00 PM	0	0	0	37	36	73	0	0	0	15	42	57	0	0	0	55	77	132	262
1:15 PM	0	0	0	25	24	49	0	0	0	20	27	47	0	0	0	80	107	187	283
1:30 PM	0	0	0	27	47	74	0	0	0	23	43	66	0	0	0	99	145	244	384
1:45 PM	0	0	0	24	32	56	0	0	0	18	50	68	0	0	0	80	132	212	336
Total Volume	0	0	0	113	139	252	0	0	0	76	162	238	0	0	0	314	461	775	1265
% Approach Total	0.0	0.0	0.0	44.8	55.2		0.0	0.0	0.0	31.9	68.1		0.0	0.0	0.0	40.5	59.5		
PHF	0.000	0.000	0.000	0.764	0.739	0.851	0.000	0.000	0.000	0.826	0.810	0.875	0.000	0.000	0.000	0.793	0.795	0.794	0.824
Entering Leg	0	0	0	113	139	252	0	0	0	76	162	238	0	0	0	314	461	775	1265
Exiting Leg	252						238						775						1265
Total	504						476						1550						2530

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	175	5	0	180	0	0	17	0	17	0	0	0	0	0	0	0	0	0	0	197
7:15 AM	0	198	10	0	208	0	0	22	0	22	0	0	0	0	0	0	0	0	0	0	230
7:30 AM	0	175	12	0	187	0	0	17	0	17	0	0	0	0	0	1	2	0	0	3	207
7:45 AM	0	207	23	0	230	0	0	31	0	31	0	0	0	0	0	0	0	0	0	0	261
Total	0	755	50	0	805	0	0	87	0	87	0	0	0	0	0	1	2	0	0	3	895
8:00 AM	0	167	14	0	181	0	0	44	0	44	0	0	0	0	0	2	3	0	0	5	230
8:15 AM	0	149	30	0	179	0	0	34	0	34	0	0	0	0	0	1	2	0	0	3	216
8:30 AM	0	197	22	0	219	0	0	32	0	32	0	0	0	1	1	1	1	0	0	2	254
8:45 AM	0	156	25	0	181	0	0	40	0	40	0	0	0	0	0	0	0	0	0	0	221
Total	0	669	91	0	760	0	0	150	0	150	0	0	0	1	1	4	6	0	0	10	921
Grand Total	0	1424	141	0	1565	0	0	237	0	237	0	0	0	1	1	5	8	0	0	13	1816
Approach %	0.0	91.0	9.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	100.0		38.5	61.5	0.0	0.0		
Total %	0.0	78.4	7.8	0.0	86.2	0.0	0.0	13.1	0.0	13.1	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.0	0.0	0.7	
Exiting Leg Total	0					149					1667					0					1816
Cars	0	1366	119	0	1485	0	0	232	0	232	0	0	0	1	1	5	8	0	0	13	1731
% Cars	0.0	95.9	84.4	0.0	94.9	0.0	0.0	97.9	0.0	97.9	0.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0	100.0	95.3
Exiting Leg Total	0					127					1604					0					1731
Heavy Vehicles	0	58	22	0	80	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	85
% Heavy Vehicles	0.0	4.1	15.6	0.0	5.1	0.0	0.0	2.1	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Exiting Leg Total	0					22					63					0					85

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	207	23	0	230	0	0	31	0	31	0	0	0	0	0	0	0	0	0	0	261
8:00 AM	0	167	14	0	181	0	0	44	0	44	0	0	0	0	0	2	3	0	0	5	230
8:15 AM	0	149	30	0	179	0	0	34	0	34	0	0	0	0	0	1	2	0	0	3	216
8:30 AM	0	197	22	0	219	0	0	32	0	32	0	0	0	1	1	1	1	0	0	2	254
Total Volume	0	720	89	0	809	0	0	141	0	141	0	0	0	1	1	4	6	0	0	10	961
% Approach Total	0.0	89.0	11.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	100.0		40.0	60.0	0.0	0.0		
PHF	0.000	0.870	0.742	0.000	0.879	0.000	0.000	0.801	0.000	0.801	0.000	0.000	0.000	0.250	0.250	0.500	0.500	0.000	0.000	0.500	0.920
Cars	0	692	73	0	765	0	0	139	0	139	0	0	0	1	1	4	6	0	0	10	915
Cars %	0.0	96.1	82.0	0.0	94.6	0.0	0.0	98.6	0.0	98.6	0.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0	100.0	95.2
Heavy Vehicles	0	28	16	0	44	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	46
Heavy Vehicles %	0.0	3.9	18.0	0.0	5.4	0.0	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Cars Enter Leg	0	692	73	0	765	0	0	139	0	139	0	0	0	1	1	4	6	0	0	10	915
Heavy Enter Leg	0	28	16	0	44	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	46
Total Entering Leg	0	720	89	0	809	0	0	141	0	141	0	0	0	1	1	4	6	0	0	10	961
Cars Exiting Leg	0					79					836					0					915
Heavy Exiting Leg	0					16					30					0					46
Total Exiting Leg	0					95					866					0					961

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	168	5	0	173	0	0	16	0	16	0	0	0	0	0	0	0	0	0	0	189
7:15 AM	0	184	9	0	193	0	0	22	0	22	0	0	0	0	0	0	0	0	0	0	215
7:30 AM	0	170	10	0	180	0	0	16	0	16	0	0	0	0	0	1	2	0	0	3	199
7:45 AM	0	196	20	0	216	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	246
Total	0	718	44	0	762	0	0	84	0	84	0	0	0	0	0	1	2	0	0	3	849
8:00 AM	0	162	12	0	174	0	0	43	0	43	0	0	0	0	0	2	3	0	0	5	222
8:15 AM	0	145	21	0	166	0	0	34	0	34	0	0	0	0	0	1	2	0	0	3	203
8:30 AM	0	189	20	0	209	0	0	32	0	32	0	0	0	1	1	1	1	0	0	2	244
8:45 AM	0	152	22	0	174	0	0	39	0	39	0	0	0	0	0	0	0	0	0	0	213
Total	0	648	75	0	723	0	0	148	0	148	0	0	0	1	1	4	6	0	0	10	882
Grand Total	0	1366	119	0	1485	0	0	232	0	232	0	0	0	1	1	5	8	0	0	13	1731
Approach %	0.0	92.0	8.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	100.0		38.5	61.5	0.0	0.0		
Total %	0.0	78.9	6.9	0.0	85.8	0.0	0.0	13.4	0.0	13.4	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.0	0.0	0.8	
Exiting Leg Total	0					127					1604					0					1731

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	196	20	0	216	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	246
8:00 AM	0	162	12	0	174	0	0	43	0	43	0	0	0	0	0	2	3	0	0	5	222
8:15 AM	0	145	21	0	166	0	0	34	0	34	0	0	0	0	0	1	2	0	0	3	203
8:30 AM	0	189	20	0	209	0	0	32	0	32	0	0	0	1	1	1	1	0	0	2	244
Total Volume	0	692	73	0	765	0	0	139	0	139	0	0	0	1	1	4	6	0	0	10	915
% Approach Total	0.0	90.5	9.5	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	100.0		40.0	60.0	0.0	0.0		
PHF	0.000	0.883	0.869	0.000	0.885	0.000	0.000	0.808	0.000	0.808	0.000	0.000	0.000	0.250	0.250	0.500	0.500	0.000	0.000	0.500	0.930
Entering Leg	0	692	73	0	765	0	0	139	0	139	0	0	0	1	1	4	6	0	0	10	915
Exiting Leg	0					79					836					0					915
Total	765					218					837					10					1830

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	7	0	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
7:15 AM	0	14	1	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
7:30 AM	0	5	2	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
7:45 AM	0	11	3	0	14	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	15
Total	0	37	6	0	43	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	46
8:00 AM	0	5	2	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
8:15 AM	0	4	9	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
8:30 AM	0	8	2	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
8:45 AM	0	4	3	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
Total	0	21	16	0	37	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	39
Grand Total	0	58	22	0	80	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	85
Approach %	0.0	72.5	27.5	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	68.2	25.9	0.0	94.1	0.0	0.0	5.9	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					22					63					0					85
Large Trucks	0	31	11	0	42	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	47
% Large Trucks	0.0	53.4	50.0	0.0	52.5	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3
Exiting Leg Total	0					11					36					0					47
Buses	0	27	11	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
% Buses	0.0	46.6	50.0	0.0	47.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7
Exiting Leg Total	0					11					27					0					38

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	7	0	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
7:15 AM	0	14	1	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
7:30 AM	0	5	2	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
7:45 AM	0	11	3	0	14	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	15
Total Volume	0	37	6	0	43	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	46
% Approach Total	0.0	86.0	14.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.661	0.500	0.000	0.717	0.000	0.000	0.750	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.767
Large Trucks	0	19	3	0	22	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	25
Large Trucks %	0.0	51.4	50.0	0.0	51.2	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3
Buses	0	18	3	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Buses %	0.0	48.6	50.0	0.0	48.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7
Trucks Enter Leg	0	19	3	0	22	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	25
Bus Enter Leg	0	18	3	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Total Entering Leg	0	37	6	0	43	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	46
Trucks Exiting Leg	0					3					22					0					25
Buses Exiting Leg	0					3					18					0					21
Total Exiting Leg	0					6					40					0					46

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	3	0	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
7:15 AM	0	8	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
7:30 AM	0	3	0	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	0	5	2	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
Total	0	19	3	0	22	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	25
8:00 AM	0	3	1	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	5
8:15 AM	0	2	5	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8:30 AM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8:45 AM	0	3	1	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	5
Total	0	12	8	0	20	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	22
Grand Total	0	31	11	0	42	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	47
Approach %	0.0	73.8	26.2	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	66.0	23.4	0.0	89.4	0.0	0.0	10.6	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					11					36					0	47				

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	8	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
7:30 AM	0	3	0	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	0	5	2	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
8:00 AM	0	3	1	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	5
Total Volume	0	19	4	0	23	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	26
% Approach Total	0.0	82.6	17.4	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.594	0.500	0.000	0.639	0.000	0.000	0.750	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.722
Entering Leg	0	19	4	0	23	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	26
Exiting Leg	0					4					22					0	26				
Total	23					7					22					0	52				

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
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Buses

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
7:00 AM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:15 AM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
7:30 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	0	18	3	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
8:00 AM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
8:15 AM	0	2	4	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
8:30 AM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8:45 AM	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	9	8	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Grand Total	0	27	11	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Approach %	0.0	71.1	28.9	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	71.1	28.9	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					11					27					0					38					

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
7:00 AM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:15 AM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
7:30 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total Volume	0	18	3	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
% Approach Total	0.0	85.7	14.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.750	0.375	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	
Entering Leg	0	18	3	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Exiting Leg	0					3					18					0					21					
Total	21					3					18					0					42					

PDI File #: 175971 B
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	9	0	0	0	0	9	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
7:15 AM	0	12	0	0	0	0	12	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
7:30 AM	0	16	0	0	0	0	16	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
7:45 AM	0	7	0	0	0	0	7	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	0	44	0	0	0	0	44	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
8:00 AM	0	24	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
8:15 AM	0	17	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
8:30 AM	0	23	0	0	0	0	23	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
8:45 AM	0	18	0	0	0	0	18	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	0	82	0	0	0	0	82	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Grand Total	0	126	0	0	0	0	126	0	0	12	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Approach %	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
Total %	0.0	91.3	0.0	0.0	0.0	0.0	91.3	0.0	0.0	8.7	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0							0							138							0	138						

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	24	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
8:15 AM	0	17	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
8:30 AM	0	23	0	0	0	0	23	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
8:45 AM	0	18	0	0	0	0	18	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total Volume	0	82	0	0	0	0	82	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.854	0.000	0.000	0.000	0.000	0.854	0.000	0.000	0.375	0.000	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.815	
Entering Leg	0	82	0	0	0	0	82	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Exiting Leg	0							0							88							0	88						
Total	82							6							88							0	176						

PDI File #: 175971 B
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	4	3	7	0	0	0	0	4	4	8	0	0	0	0	0	0	0	0	0	0	0	8	2	10	25
7:15 AM	0	0	0	0	2	1	3	0	0	0	0	6	7	13	0	0	0	0	0	1	1	0	0	0	0	11	11	22	39
7:30 AM	0	0	0	0	0	6	6	0	0	0	0	1	9	10	0	0	0	0	1	0	1	0	0	0	0	10	16	26	43
7:45 AM	0	0	0	0	1	4	5	0	0	0	0	8	13	21	0	0	0	0	2	0	2	0	0	0	0	14	16	30	58
Total	0	0	0	0	7	14	21	0	0	0	0	19	33	52	0	0	0	0	3	1	4	0	0	0	0	43	45	88	165
8:00 AM	0	0	0	0	9	9	18	0	0	0	0	8	14	22	0	0	0	0	0	0	0	0	0	0	0	7	7	14	54
8:15 AM	0	0	0	0	3	10	13	0	0	0	0	5	7	12	0	0	0	0	0	0	0	0	0	0	0	15	11	26	51
8:30 AM	0	0	0	0	6	10	16	0	0	0	0	8	15	23	0	0	0	0	0	0	0	0	0	0	0	18	19	37	76
8:45 AM	0	0	0	0	1	8	9	0	0	0	0	5	10	15	0	0	0	0	0	0	0	0	0	0	0	10	16	26	50
Total	0	0	0	0	19	37	56	0	0	0	0	26	46	72	0	0	0	0	0	0	0	0	0	0	0	50	53	103	231
Grand Total	0	0	0	0	26	51	77	0	0	0	0	45	79	124	0	0	0	0	3	1	4	0	0	0	0	93	98	191	396
Approach %	0.0	0.0	0.0	0.0	33.8	66.2	0.0	0.0	0.0	0.0	36.3	63.7	0.0	0.0	0.0	0.0	75.0	25.0	0.0	0.0	0.0	0.0	48.7	51.3					
Total %	0.0	0.0	0.0	0.0	6.6	12.9	19.4	0.0	0.0	0.0	0.0	11.4	19.9	31.3	0.0	0.0	0.0	0.0	0.8	0.3	1.0	0.0	0.0	0.0	0.0	23.5	24.7	48.2	
Exiting Leg Total	77							124							4							191							396

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:45 AM	0	0	0	0	1	4	5	0	0	0	0	8	13	21	0	0	0	0	2	0	2	0	0	0	0	14	16	30	58
8:00 AM	0	0	0	0	9	9	18	0	0	0	0	8	14	22	0	0	0	0	0	0	0	0	0	0	0	7	7	14	54
8:15 AM	0	0	0	0	3	10	13	0	0	0	0	5	7	12	0	0	0	0	0	0	0	0	0	0	0	15	11	26	51
8:30 AM	0	0	0	0	6	10	16	0	0	0	0	8	15	23	0	0	0	0	0	0	0	0	0	0	0	18	19	37	76
Total Volume	0	0	0	0	19	33	52	0	0	0	0	29	49	78	0	0	0	0	2	0	2	0	0	0	0	54	53	107	239
% Approach Total	0.0	0.0	0.0	0.0	36.5	63.5	0.0	0.0	0.0	0.0	37.2	62.8	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	50.5	49.5					
PHF	0.000	0.000	0.000	0.000	0.528	0.825	0.722	0.000	0.000	0.000	0.000	0.906	0.817	0.848	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.750	0.697	0.723	0.786
Entering Leg	0	0	0	0	19	33	52	0	0	0	0	29	49	78	0	0	0	0	2	0	2	0	0	0	0	54	53	107	239
Exiting Leg	52							78							2							107							239
Total	104							156							4							214							478

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	115	36	0	151	0	0	12	0	12	0	0	0	0	0	0	7	0	0	7	170
4:15 PM	1	118	41	0	160	0	0	19	0	19	0	0	0	0	0	0	4	0	0	4	183
4:30 PM	0	120	29	0	149	0	0	20	0	20	0	0	1	0	1	3	7	0	0	10	180
4:45 PM	0	113	27	0	140	0	0	17	0	17	0	0	0	0	0	1	9	0	0	10	167
Total	1	466	133	0	600	0	0	68	0	68	0	0	1	0	1	4	27	0	0	31	700
5:00 PM	0	125	33	0	158	0	0	19	0	19	0	0	0	0	0	3	17	0	0	20	197
5:15 PM	0	131	31	0	162	0	0	17	0	17	0	0	0	0	0	4	13	0	0	17	196
5:30 PM	0	136	30	0	166	0	0	14	0	14	0	0	1	0	1	5	11	0	0	16	197
5:45 PM	0	110	27	0	137	0	0	24	0	24	0	0	0	0	0	2	11	0	0	13	174
Total	0	502	121	0	623	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	764
Grand Total	1	968	254	0	1223	0	0	142	0	142	0	0	2	0	2	18	79	0	0	97	1464
Approach %	0.1	79.1	20.8	0.0		0.0	0.0	100.0	0.0		0.0	0.0	100.0	0.0		18.6	81.4	0.0	0.0		
Total %	0.1	66.1	17.3	0.0	83.5	0.0	0.0	9.7	0.0	9.7	0.0	0.0	0.1	0.0	0.1	1.2	5.4	0.0	0.0	6.6	
Exiting Leg Total	0					333					1128					3					1464
Cars	1	932	242	0	1175	0	0	141	0	141	0	0	2	0	2	17	79	0	0	96	1414
% Cars	100.0	96.3	95.3	0.0	96.1	0.0	0.0	99.3	0.0	99.3	0.0	0.0	100.0	0.0	100.0	94.4	100.0	0.0	0.0	99.0	96.6
Exiting Leg Total	0					321					1090					3					1414
Heavy Vehicles	0	36	12	0	48	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	50
% Heavy Vehicles	0.0	3.7	4.7	0.0	3.9	0.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	1.0	3.4
Exiting Leg Total	0					12					38					0					50

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	125	33	0	158	0	0	19	0	19	0	0	0	0	0	3	17	0	0	20	197
5:15 PM	0	131	31	0	162	0	0	17	0	17	0	0	0	0	0	4	13	0	0	17	196
5:30 PM	0	136	30	0	166	0	0	14	0	14	0	0	1	0	1	5	11	0	0	16	197
5:45 PM	0	110	27	0	137	0	0	24	0	24	0	0	0	0	0	2	11	0	0	13	174
Total Volume	0	502	121	0	623	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	764
% Approach Total	0.0	80.6	19.4	0.0		0.0	0.0	100.0	0.0		0.0	0.0	100.0	0.0		21.2	78.8	0.0	0.0		
PHF	0.000	0.923	0.917	0.000	0.938	0.000	0.000	0.771	0.000	0.771	0.000	0.000	0.250	0.000	0.250	0.700	0.765	0.000	0.000	0.825	0.970
Cars	0	485	115	0	600	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	741
Cars %	0.0	96.6	95.0	0.0	96.3	0.0	0.0	100.0	0.0	100.0	0.0	0.0	100.0	0.0	100.0	100.0	100.0	0.0	0.0	100.0	97.0
Heavy Vehicles	0	17	6	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Heavy Vehicles %	0.0	3.4	5.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Cars Enter Leg	0	485	115	0	600	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	741
Heavy Enter Leg	0	17	6	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Total Entering Leg	0	502	121	0	623	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	764
Cars Exiting Leg	0					167					573					1					741
Heavy Exiting Leg	0					6					17					0					23
Total Exiting Leg	0					173					590					1					764

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	111	33	0	144	0	0	11	0	11	0	0	0	0	0	0	7	0	0	7	162
4:15 PM	1	112	40	0	153	0	0	19	0	19	0	0	0	0	0	0	4	0	0	4	176
4:30 PM	0	114	28	0	142	0	0	20	0	20	0	0	1	0	1	2	7	0	0	9	172
4:45 PM	0	110	26	0	136	0	0	17	0	17	0	0	0	0	0	1	9	0	0	10	163
Total	1	447	127	0	575	0	0	67	0	67	0	0	1	0	1	3	27	0	0	30	673
5:00 PM	0	123	31	0	154	0	0	19	0	19	0	0	0	0	0	3	17	0	0	20	193
5:15 PM	0	124	29	0	153	0	0	17	0	17	0	0	0	0	0	4	13	0	0	17	187
5:30 PM	0	130	30	0	160	0	0	14	0	14	0	0	1	0	1	5	11	0	0	16	191
5:45 PM	0	108	25	0	133	0	0	24	0	24	0	0	0	0	0	2	11	0	0	13	170
Total	0	485	115	0	600	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	741
Grand Total	1	932	242	0	1175	0	0	141	0	141	0	0	2	0	2	17	79	0	0	96	1414
Approach %	0.1	79.3	20.6	0.0		0.0	0.0	100.0	0.0		0.0	0.0	100.0	0.0		17.7	82.3	0.0	0.0		
Total %	0.1	65.9	17.1	0.0	83.1	0.0	0.0	10.0	0.0	10.0	0.0	0.0	0.1	0.0	0.1	1.2	5.6	0.0	0.0	6.8	
Exiting Leg Total	0					321					1090					3					1414

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	123	31	0	154	0	0	19	0	19	0	0	0	0	0	3	17	0	0	20	193
5:15 PM	0	124	29	0	153	0	0	17	0	17	0	0	0	0	0	4	13	0	0	17	187
5:30 PM	0	130	30	0	160	0	0	14	0	14	0	0	1	0	1	5	11	0	0	16	191
5:45 PM	0	108	25	0	133	0	0	24	0	24	0	0	0	0	0	2	11	0	0	13	170
Total Volume	0	485	115	0	600	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	741
% Approach Total	0.0	80.8	19.2	0.0		0.0	0.0	100.0	0.0		0.0	0.0	100.0	0.0		21.2	78.8	0.0	0.0		
PHF	0.000	0.933	0.927	0.000	0.938	0.000	0.000	0.771	0.000	0.771	0.000	0.000	0.250	0.000	0.250	0.700	0.765	0.000	0.000	0.825	0.960
Entering Leg	0	485	115	0	600	0	0	74	0	74	0	0	1	0	1	14	52	0	0	66	741
Exiting Leg	0					167					573					1					741
Total	600					241					574					67					1482

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	4	3	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
4:15 PM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
4:30 PM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	8
4:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	19	6	0	25	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	27
5:00 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	0	7	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
5:30 PM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5:45 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	17	6	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Grand Total	0	36	12	0	48	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	50
Approach %	0.0	75.0	25.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.0	72.0	24.0	0.0	96.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.0	
Exiting Leg Total	0					12					38					0					50
Large Trucks	0	4	2	0	6	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	8
% Large Trucks	0.0	11.1	16.7	0.0	12.5	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	16.0
Exiting Leg Total	0					2					6					0					8
Buses	0	32	10	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
% Buses	0.0	88.9	83.3	0.0	87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0
Exiting Leg Total	0					10					32					0					42

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	4	3	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	8
4:15 PM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
4:30 PM	0	6	1	0	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	8
4:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	19	6	0	25	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	27
% Approach Total	0.0	76.0	24.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.792	0.500	0.000	0.893	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.844
Large Trucks	0	3	2	0	5	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	7
Large Trucks %	0.0	15.8	33.3	0.0	20.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	25.9
Buses	0	16	4	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Buses %	0.0	84.2	66.7	0.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.1
Trucks Enter Leg	0	3	2	0	5	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	7
Bus Enter Leg	0	16	4	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total Entering Leg	0	19	6	0	25	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	27
Trucks Exiting Leg	0					2					5					0					7
Buses Exiting Leg	0					4					16					0					20
Total Exiting Leg	0					6					21					0					27

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4:30 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	2	0	5	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	7
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	4	2	0	6	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	8
Approach %	0.0	66.7	33.3	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.0	50.0	25.0	0.0	75.0	0.0	0.0	12.5	0.0	12.5	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	12.5	
Exiting Leg Total	0					2					6					0					8

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4:30 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	3	2	0	5	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	7
% Approach Total	0.0	60.0	40.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.250	0.500	0.000	0.417	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.583
Entering Leg	0	3	2	0	5	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	7
Exiting Leg	0					2					5					0					7
Total	5					3					5					1					14

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	4	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
4:30 PM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	16	4	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
5:00 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	0	7	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
5:30 PM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
5:45 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	16	6	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Grand Total	0	32	10	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Approach %	0.0	76.2	23.8	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	76.2	23.8	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					10					32					0					42

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:00 PM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	0	7	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total Volume	0	18	5	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
% Approach Total	0.0	78.3	21.7	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.643	0.625	0.000	0.639	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.639
Entering Leg	0	18	5	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Exiting Leg	0					5					18					0					23
Total	23					5					18					0					46

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Bicycles (on Roadway and Crosswalks)

	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4			
4:15 PM	0	5	1	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6			
4:30 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
4:45 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
Total	0	15	1	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	17			
5:00 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
5:15 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3			
5:30 PM	0	7	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7			
5:45 PM	0	6	0	0	0	0	6	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	8			
Total	0	18	0	0	0	0	18	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	21			
Grand Total	0	33	1	0	0	0	34	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3	38			
Approach %	0.0	97.1	2.9	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	33.3	0.0	0.0	66.7	0.0					
Total %	0.0	86.8	2.6	0.0	0.0	0.0	89.5	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	2.6	0.0	0.0	5.3	0.0	7.9				
Exiting Leg Total	0							3							33							2							38				

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Elm Street								Grove Street								Elm Street								Bowers Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
5:00 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
5:15 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3			
5:30 PM	0	7	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7			
5:45 PM	0	6	0	0	0	0	6	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	8			
Total Volume	0	18	0	0	0	0	18	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	21			
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	50.0	0.0	0.0	50.0	0.0					
PHF	0.000	0.643	0.000	0.000	0.000	0.000	0.643	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.250	0.000	0.000	0.250	0.000	0.500	0.656			
Entering Leg	0	18	0	0	0	0	18	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	21			
Exiting Leg	0							2							18							1							21				
Total	18							3							18							3							42				

PDI File #: 175971 B
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	0	10	14	24	0	0	0	0	21	20	41	0	0	0	0	0	0	0	0	0	14	24	38	103		
4:15 PM	0	0	0	0	17	18	35	0	0	0	0	10	10	20	0	0	0	0	4	0	4	0	0	0	20	22	42	101	
4:30 PM	0	0	0	0	22	24	46	0	0	0	0	24	22	46	0	0	0	0	2	2	4	0	0	0	17	20	37	133	
4:45 PM	0	0	0	0	18	15	33	0	0	0	0	28	12	40	0	0	0	0	3	0	3	0	0	0	20	18	38	114	
Total	0	0	0	0	67	71	138	0	0	0	0	83	64	147	0	0	0	0	9	2	11	0	0	0	71	84	155	451	
5:00 PM	0	0	0	0	18	13	31	0	0	0	0	17	19	36	0	0	0	0	1	0	1	0	0	0	32	23	55	123	
5:15 PM	0	0	0	0	22	13	35	0	0	0	0	30	20	50	0	0	0	0	3	4	7	0	0	0	33	26	59	151	
5:30 PM	0	0	0	0	18	16	34	0	0	0	0	26	24	50	0	0	0	0	0	1	1	0	0	0	32	31	63	148	
5:45 PM	0	0	0	0	17	22	39	0	0	0	0	33	32	65	0	0	0	0	0	1	1	0	0	0	28	29	57	162	
Total	0	0	0	0	75	64	139	0	0	0	0	106	95	201	0	0	0	0	4	6	10	0	0	0	125	109	234	584	
Grand Total	0	0	0	0	142	135	277	0	0	0	0	189	159	348	0	0	0	0	13	8	21	0	0	0	196	193	389	1035	
Approach %	0.0	0.0	0.0	0.0	51.3	48.7		0.0	0.0	0.0	0.0	54.3	45.7		0.0	0.0	0.0	0.0	61.9	38.1		0.0	0.0	0.0	50.4	49.6			
Total %	0.0	0.0	0.0	0.0	13.7	13.0	26.8	0.0	0.0	0.0	0.0	18.3	15.4	33.6	0.0	0.0	0.0	0.0	1.3	0.8	2.0	0.0	0.0	0.0	18.9	18.6	37.6		
Exiting Leg Total	277							348							21							389							1035

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	0	0	0	18	13	31	0	0	0	0	17	19	36	0	0	0	0	1	0	1	0	0	0	32	23	55	123	
5:15 PM	0	0	0	0	22	13	35	0	0	0	0	30	20	50	0	0	0	0	3	4	7	0	0	0	33	26	59	151	
5:30 PM	0	0	0	0	18	16	34	0	0	0	0	26	24	50	0	0	0	0	0	1	1	0	0	0	32	31	63	148	
5:45 PM	0	0	0	0	17	22	39	0	0	0	0	33	32	65	0	0	0	0	0	1	1	0	0	0	28	29	57	162	
Total Volume	0	0	0	0	75	64	139	0	0	0	0	106	95	201	0	0	0	0	4	6	10	0	0	0	125	109	234	584	
% Approach Total	0.0	0.0	0.0	0.0	54.0	46.0		0.0	0.0	0.0	0.0	52.7	47.3		0.0	0.0	0.0	0.0	40.0	60.0		0.0	0.0	0.0	53.4	46.6			
PHF	0.000	0.000	0.000	0.000	0.852	0.727	0.891	0.000	0.000	0.000	0.000	0.803	0.742	0.773	0.000	0.000	0.000	0.000	0.333	0.375	0.357	0.000	0.000	0.000	0.000	0.947	0.879	0.929	0.901
Entering Leg	0	0	0	0	75	64	139	0	0	0	0	106	95	201	0	0	0	0	4	6	10	0	0	0	125	109	234	584	
Exiting Leg	139							201							10							234							584
Total	278							402							20							468							1168

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	1	125	19	0	145	0	0	32	0	32	0	0	0	0	0	4	4	0	0	8	185
11:15 AM	1	138	28	0	167	0	0	42	0	42	0	0	0	0	0	5	1	0	0	6	215
11:30 AM	0	150	35	0	185	0	0	35	0	35	0	0	0	0	0	7	2	0	0	9	229
11:45 AM	0	142	33	0	175	0	0	30	0	30	0	0	0	0	0	6	2	0	0	8	213
Total	2	555	115	0	672	0	0	139	0	139	0	0	0	0	0	22	9	0	0	31	842
12:00 PM	0	149	31	0	180	0	0	34	0	34	0	0	0	0	0	3	0	0	0	3	217
12:15 PM	0	138	36	0	174	0	0	29	0	29	0	0	0	0	0	3	0	0	0	3	206
12:30 PM	0	136	25	0	161	0	0	31	0	31	0	0	0	0	0	4	2	0	0	6	198
12:45 PM	0	123	27	0	150	0	0	31	0	31	0	0	0	0	0	5	2	0	0	7	188
Total	0	546	119	0	665	0	0	125	0	125	0	0	0	0	0	15	4	0	0	19	809
1:00 PM	0	121	31	0	152	0	0	22	0	22	0	0	0	0	0	3	6	0	0	9	183
1:15 PM	0	149	30	0	179	0	0	41	0	41	0	0	0	0	0	1	4	0	0	5	225
1:30 PM	0	127	35	0	162	0	0	30	0	30	0	0	0	0	0	5	1	0	0	6	198
1:45 PM	0	138	36	0	174	0	0	28	0	28	0	0	0	0	0	1	3	0	0	4	206
Total	0	535	132	0	667	0	0	121	0	121	0	0	0	0	0	10	14	0	0	24	812
Grand Total	2	1636	366	0	2004	0	0	385	0	385	0	0	0	0	0	47	27	0	0	74	2463
Approach %	0.1	81.6	18.3	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		63.5	36.5	0.0	0.0		
Total %	0.1	66.4	14.9	0.0	81.4	0.0	0.0	15.6	0.0	15.6	0.0	0.0	0.0	0.0	0.0	1.9	1.1	0.0	0.0	3.0	
Exiting Leg Total	0					393					2068					2					2463
Cars	2	1595	351	0	1948	0	0	382	0	382	0	0	0	0	0	47	27	0	0	74	2404
% Cars	100.0	97.5	95.9	0.0	97.2	0.0	0.0	99.2	0.0	99.2	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	97.6
Exiting Leg Total	0					378					2024					2					2404
Heavy Vehicles	0	41	15	0	56	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	59
% Heavy Vehicles	0.0	2.5	4.1	0.0	2.8	0.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Exiting Leg Total	0					15					44					0					59

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	1	138	28	0	167	0	0	42	0	42	0	0	0	0	0	5	1	0	0	6	215
11:30 AM	0	150	35	0	185	0	0	35	0	35	0	0	0	0	0	7	2	0	0	9	229
11:45 AM	0	142	33	0	175	0	0	30	0	30	0	0	0	0	0	6	2	0	0	8	213
12:00 PM	0	149	31	0	180	0	0	34	0	34	0	0	0	0	0	3	0	0	0	3	217
Total Volume	1	579	127	0	707	0	0	141	0	141	0	0	0	0	0	21	5	0	0	26	874
% Approach Total	0.1	81.9	18.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		80.8	19.2	0.0	0.0		
PHF	0.250	0.965	0.907	0.000	0.955	0.000	0.000	0.839	0.000	0.839	0.000	0.000	0.000	0.000	0.000	0.750	0.625	0.000	0.000	0.722	0.954
Cars	1	564	121	0	686	0	0	140	0	140	0	0	0	0	0	21	5	0	0	26	852
Cars %	100.0	97.4	95.3	0.0	97.0	0.0	0.0	99.3	0.0	99.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	97.5
Heavy Vehicles	0	15	6	0	21	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	22
Heavy Vehicles %	0.0	2.6	4.7	0.0	3.0	0.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
Cars Enter Leg	1	564	121	0	686	0	0	140	0	140	0	0	0	0	0	21	5	0	0	26	852
Heavy Enter Leg	0	15	6	0	21	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	22
Total Entering Leg	1	579	127	0	707	0	0	141	0	141	0	0	0	0	0	21	5	0	0	26	874
Cars Exiting Leg	0					126					725					1					852
Heavy Exiting Leg	0					6					16					0					22
Total Exiting Leg	0					132					741					1					874

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	1	119	19	0	139	0	0	32	0	32	0	0	0	0	0	4	4	0	0	8	179
11:15 AM	1	134	26	0	161	0	0	41	0	41	0	0	0	0	0	5	1	0	0	6	208
11:30 AM	0	147	35	0	182	0	0	35	0	35	0	0	0	0	0	7	2	0	0	9	226
11:45 AM	0	139	30	0	169	0	0	30	0	30	0	0	0	0	0	6	2	0	0	8	207
Total	2	539	110	0	651	0	0	138	0	138	0	0	0	0	0	22	9	0	0	31	820
12:00 PM	0	144	30	0	174	0	0	34	0	34	0	0	0	0	0	3	0	0	0	3	211
12:15 PM	0	135	35	0	170	0	0	28	0	28	0	0	0	0	0	3	0	0	0	3	201
12:30 PM	0	134	25	0	159	0	0	31	0	31	0	0	0	0	0	4	2	0	0	6	196
12:45 PM	0	121	27	0	148	0	0	31	0	31	0	0	0	0	0	5	2	0	0	7	186
Total	0	534	117	0	651	0	0	124	0	124	0	0	0	0	0	15	4	0	0	19	794
1:00 PM	0	117	30	0	147	0	0	22	0	22	0	0	0	0	0	3	6	0	0	9	178
1:15 PM	0	143	26	0	169	0	0	40	0	40	0	0	0	0	0	1	4	0	0	5	214
1:30 PM	0	127	35	0	162	0	0	30	0	30	0	0	0	0	0	5	1	0	0	6	198
1:45 PM	0	135	33	0	168	0	0	28	0	28	0	0	0	0	0	1	3	0	0	4	200
Total	0	522	124	0	646	0	0	120	0	120	0	0	0	0	0	10	14	0	0	24	790
Grand Total	2	1595	351	0	1948	0	0	382	0	382	0	0	0	0	0	47	27	0	0	74	2404
Approach %	0.1	81.9	18.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		63.5	36.5	0.0	0.0		
Total %	0.1	66.3	14.6	0.0	81.0	0.0	0.0	15.9	0.0	15.9	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.0	0.0	3.1	
Exiting Leg Total	0					378					2024					2					2404

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	1	134	26	0	161	0	0	41	0	41	0	0	0	0	0	5	1	0	0	6	208
11:30 AM	0	147	35	0	182	0	0	35	0	35	0	0	0	0	0	7	2	0	0	9	226
11:45 AM	0	139	30	0	169	0	0	30	0	30	0	0	0	0	0	6	2	0	0	8	207
12:00 PM	0	144	30	0	174	0	0	34	0	34	0	0	0	0	0	3	0	0	0	3	211
Total Volume	1	564	121	0	686	0	0	140	0	140	0	0	0	0	0	21	5	0	0	26	852
% Approach Total	0.1	82.2	17.6	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		80.8	19.2	0.0	0.0		
PHF	0.250	0.959	0.864	0.000	0.942	0.000	0.000	0.854	0.000	0.854	0.000	0.000	0.000	0.000	0.000	0.750	0.625	0.000	0.000	0.722	0.942
Entering Leg	1	564	121	0	686	0	0	140	0	140	0	0	0	0	0	21	5	0	0	26	852
Exiting Leg	0					126					725					1					852
Total	686					266					725					27					1704

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
11:15 AM	0	4	2	0	6	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	7
11:30 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:45 AM	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	0	16	5	0	21	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	22
12:00 PM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
12:15 PM	0	3	1	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	5
12:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	12	2	0	14	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	15
1:00 PM	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
1:15 PM	0	6	4	0	10	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	11
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	0	13	8	0	21	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	22
Grand Total	0	41	15	0	56	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	59
Approach %	0.0	73.2	26.8	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	69.5	25.4	0.0	94.9	0.0	0.0	5.1	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					15					44					0					59
Large Trucks	0	22	6	0	28	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	31
% Large Trucks	0.0	53.7	40.0	0.0	50.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5
Exiting Leg Total	0					6					25					0					31
Buses	0	19	9	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
% Buses	0.0	46.3	60.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5
Exiting Leg Total	0					9					19					0					28

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
11:15 AM	0	4	2	0	6	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	7
11:30 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:45 AM	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total Volume	0	16	5	0	21	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	22
% Approach Total	0.0	76.2	23.8	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.667	0.417	0.000	0.875	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.786
Large Trucks	0	11	0	0	11	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	12
Large Trucks %	0.0	68.8	0.0	0.0	52.4	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5
Buses	0	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Buses %	0.0	31.3	100.0	0.0	47.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5
Trucks Enter Leg	0	11	0	0	11	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	12
Bus Enter Leg	0	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total Entering Leg	0	16	5	0	21	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	22
Trucks Exiting Leg	0					0					12					0					12
Buses Exiting Leg	0					5					5					0					10
Total Exiting Leg	0					5					17					0					22

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11:15 AM	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	11	0	0	11	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
12:00 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:15 PM	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	5	1	0	6	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
1:00 PM	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1:15 PM	0	1	3	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	6	5	0	11	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Grand Total	0	22	6	0	28	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Approach %	0.0	78.6	21.4	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	71.0	19.4	0.0	90.3	0.0	0.0	9.7	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					6					25					0					31					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11:15 AM	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Volume	0	11	0	0	11	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.550	0.000	0.000	0.550	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.600	
Entering Leg	0	11	0	0	11	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Exiting Leg	0					0					12					0					12					
Total	11					1					12					0					24					

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
12:00 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12:15 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	7	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
1:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:15 PM	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	7	3	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Grand Total	0	19	9	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Approach %	0.0	67.9	32.1	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	67.9	32.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	0					9					19					0					28					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Elm Street					Grove Street					Elm Street					Bowers Avenue					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:15 AM	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12:00 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	8	5	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
% Approach Total	0.0	61.5	38.5	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.417	0.000	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.813	
Entering Leg	0	8	5	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Exiting Leg	0					5					8					0					13					
Total	13					5					8					0					26					

PDI File #: 175971 B
 Location: N: Elm Street S: Elm Street
 Location: E: Grove Street W: Bowers Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	3	1	0	0	0	4	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	6			
11:15 AM	0	3	0	0	0	0	3	0	0	3	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	8			
11:30 AM	0	6	0	0	0	0	6	0	0	2	0	1	1	4	0	0	0	0	0	0	0	0	0	0	0	10			
11:45 AM	0	8	0	0	0	0	8	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	10			
Total	0	20	1	0	0	0	21	0	0	8	0	1	3	12	0	0	0	0	0	0	0	0	0	1	1	34			
12:00 PM	0	8	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10			
12:15 PM	0	15	0	0	1	0	16	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	17			
12:30 PM	0	17	0	0	1	0	18	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	19			
12:45 PM	0	9	0	0	0	0	9	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	11			
Total	0	49	0	0	2	1	52	0	0	2	0	1	1	4	0	0	0	0	0	0	0	0	0	0	1	57			
1:00 PM	0	10	1	0	0	0	11	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	12			
1:15 PM	0	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
1:30 PM	0	10	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10			
1:45 PM	0	15	0	0	0	0	15	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	17			
Total	0	40	1	0	0	0	41	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	1	1	44			
Grand Total	0	109	2	0	2	1	114	0	0	11	0	2	5	18	0	0	0	0	0	0	0	0	0	2	3	135			
Approach %	0.0	95.6	1.8	0.0	1.8	0.9		0.0	0.0	61.1	0.0	11.1	27.8		0.0	0.0	0.0	0.0	0.0	0.0		33.3	0.0	0.0	0.0	66.7			
Total %	0.0	80.7	1.5	0.0	1.5	0.7	84.4	0.0	0.0	8.1	0.0	1.5	3.7	13.3	0.0	0.0	0.0	0.0	0.0	0.0		0.7	0.0	0.0	0.0	2.2			
Exiting Leg Total							3						9												2	135			

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
12:15 PM	0	15	0	0	1	0	16	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	17			
12:30 PM	0	17	0	0	1	0	18	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	19			
12:45 PM	0	9	0	0	0	0	9	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	11			
1:00 PM	0	10	1	0	0	0	11	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	12			
Total Volume	0	51	1	0	2	0	54	0	0	2	0	1	2	5	0	0	0	0	0	0	0	0	0	0	0	59			
% Approach Total	0.0	94.4	1.9	0.0	3.7	0.0		0.0	0.0	40.0	0.0	20.0	40.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0				
PHF	0.000	0.750	0.250	0.000	0.500	0.000	0.750	0.000	0.000	0.500	0.000	0.250	0.500	0.625	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.776			
Entering Leg	0	51	1	0	2	0	54	0	0	2	0	1	2	5	0	0	0	0	0	0	0	0	0	0	0	59			
Exiting Leg							2						4												0	59			
Total							56						9												0	118			

PDI File #: **175971 B**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Grove Street W: Bowers Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	31	35	66	0	0	0	0	55	45	100	0	0	0	0	0	0	0	0	0	31	33	64	230		
11:15 AM	0	0	0	0	24	34	58	0	0	0	0	71	43	114	0	0	0	0	0	0	0	0	0	33	41	74	246		
11:30 AM	0	0	0	0	30	36	66	0	0	0	0	60	62	122	0	0	0	0	0	0	0	0	0	28	34	62	250		
11:45 AM	0	0	0	0	35	42	77	0	0	0	0	55	65	120	0	0	0	0	0	0	0	0	0	42	50	92	289		
Total	0	0	0	0	120	147	267	0	0	0	0	241	215	456	0	0	0	0	0	0	0	0	0	134	158	292	1015		
12:00 PM	0	0	0	0	45	23	68	0	0	0	0	56	57	113	0	0	0	0	0	0	0	0	0	42	37	79	260		
12:15 PM	0	0	0	0	45	31	76	0	0	0	0	56	51	107	0	0	0	0	0	0	0	0	0	39	48	87	270		
12:30 PM	0	0	0	0	41	29	70	0	0	0	0	58	54	112	0	0	0	0	0	0	0	0	0	37	64	101	283		
12:45 PM	0	0	0	0	32	51	83	0	0	0	0	43	54	97	0	0	0	0	0	3	3	0	0	55	40	95	278		
Total	0	0	0	0	163	134	297	0	0	0	0	213	216	429	0	0	0	0	0	3	3	0	0	173	189	362	1091		
1:00 PM	0	0	0	0	38	32	70	0	0	0	0	72	41	113	0	0	0	0	1	0	1	0	0	47	43	90	274		
1:15 PM	0	0	0	0	38	30	68	0	0	0	0	82	63	145	0	0	0	0	0	3	3	0	0	44	49	93	309		
1:30 PM	0	0	0	0	31	37	68	0	0	0	0	53	72	125	0	0	0	0	1	1	2	0	0	45	41	86	281		
1:45 PM	0	0	0	0	26	46	72	0	0	0	0	62	68	130	0	0	0	0	1	0	1	0	0	45	45	90	293		
Total	0	0	0	0	133	145	278	0	0	0	0	269	244	513	0	0	0	0	3	4	7	0	0	181	178	359	1157		
Grand Total	0	0	0	0	416	426	842	0	0	0	0	723	675	1398	0	0	0	0	3	7	10	0	0	488	525	1013	3263		
Approach %	0.0	0.0	0.0	0.0	49.4	50.6		0.0	0.0	0.0	0.0	51.7	48.3		0.0	0.0	0.0	0.0	30.0	70.0		0.0	0.0	0.0	0.0	48.2	51.8		
Total %	0.0	0.0	0.0	0.0	12.7	13.1	25.8	0.0	0.0	0.0	0.0	22.2	20.7	42.8	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.0	0.0	0.0	0.0	15.0	16.1	31.0	
Exiting Leg Total	842							1398							10							1013							3263

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street							Grove Street							Elm Street							Bowers Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
1:00 PM	0	0	0	0	38	32	70	0	0	0	0	72	41	113	0	0	0	0	1	0	1	0	0	0	47	43	90	274	
1:15 PM	0	0	0	0	38	30	68	0	0	0	0	82	63	145	0	0	0	0	0	3	3	0	0	44	49	93	309		
1:30 PM	0	0	0	0	31	37	68	0	0	0	0	53	72	125	0	0	0	0	1	1	2	0	0	45	41	86	281		
1:45 PM	0	0	0	0	26	46	72	0	0	0	0	62	68	130	0	0	0	0	1	0	1	0	0	45	45	90	293		
Total Volume	0	0	0	0	133	145	278	0	0	0	0	269	244	513	0	0	0	0	3	4	7	0	0	181	178	359	1157		
% Approach Total	0.0	0.0	0.0	0.0	47.8	52.2		0.0	0.0	0.0	0.0	52.4	47.6		0.0	0.0	0.0	0.0	42.9	57.1		0.0	0.0	0.0	0.0	50.4	49.6		
PHF	0.000	0.000	0.000	0.000	0.875	0.788	0.965	0.000	0.000	0.000	0.000	0.820	0.847	0.884	0.000	0.000	0.000	0.000	0.750	0.333	0.583	0.000	0.000	0.000	0.000	0.963	0.908	0.965	0.936
Entering Leg	0	0	0	0	133	145	278	0	0	0	0	269	244	513	0	0	0	0	3	4	7	0	0	181	178	359	1157		
Exiting Leg	278							513							7							359							1157
Total	556							1026							14							718							2314

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	134	1	0	135	0	0	0	0	0	36	0	0	0	36	9	45	0	0	54	225
7:15 AM	0	154	0	0	154	0	0	0	0	0	41	0	0	0	41	7	63	0	0	70	265
7:30 AM	0	146	0	0	146	0	0	0	0	0	44	0	0	0	44	14	58	0	0	72	262
7:45 AM	0	166	0	0	166	0	0	0	0	0	59	0	0	0	59	4	81	0	0	85	310
Total	0	600	1	0	601	0	0	0	0	0	180	0	0	0	180	34	247	0	0	281	1062
8:00 AM	0	150	2	0	152	0	0	0	0	0	58	0	0	0	58	13	71	0	0	84	294
8:15 AM	0	119	0	0	119	0	0	0	0	0	43	0	0	0	43	10	88	0	0	98	260
8:30 AM	0	155	0	0	155	0	0	0	0	0	39	0	0	0	39	11	75	0	0	86	280
8:45 AM	0	126	0	0	126	0	0	0	0	0	52	0	0	0	52	9	77	0	0	86	264
Total	0	550	2	0	552	0	0	0	0	0	192	0	0	0	192	43	311	0	0	354	1098
Grand Total	0	1150	3	0	1153	0	0	0	0	0	372	0	0	0	372	77	558	0	0	635	2160
Approach %	0.0	99.7	0.3	0.0		0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0		12.1	87.9	0.0	0.0		
Total %	0.0	53.2	0.1	0.0	53.4	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	17.2	3.6	25.8	0.0	0.0	29.4	
Exiting Leg Total	0					933					1227					0					2160
Cars	0	1110	2	0	1112	0	0	0	0	0	346	0	0	0	346	74	546	0	0	620	2078
% Cars	0.0	96.5	66.7	0.0	96.4	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	0.0	93.0	96.1	97.8	0.0	0.0	97.6	96.2
Exiting Leg Total	0					894					1184					0					2078
Heavy Vehicles	0	40	1	0	41	0	0	0	0	0	26	0	0	0	26	3	12	0	0	15	82
% Heavy Vehicles	0.0	3.5	33.3	0.0	3.6	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	7.0	3.9	2.2	0.0	0.0	2.4	3.8
Exiting Leg Total	0					39					43					0					82

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	166	0	0	166	0	0	0	0	0	59	0	0	0	59	4	81	0	0	85	310
8:00 AM	0	150	2	0	152	0	0	0	0	0	58	0	0	0	58	13	71	0	0	84	294
8:15 AM	0	119	0	0	119	0	0	0	0	0	43	0	0	0	43	10	88	0	0	98	260
8:30 AM	0	155	0	0	155	0	0	0	0	0	39	0	0	0	39	11	75	0	0	86	280
Total Volume	0	590	2	0	592	0	0	0	0	0	199	0	0	0	199	38	315	0	0	353	1144
% Approach Total	0.0	99.7	0.3	0.0		0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0		10.8	89.2	0.0	0.0		
PHF	0.000	0.889	0.250	0.000	0.892	0.000	0.000	0.000	0.000	0.000	0.843	0.000	0.000	0.000	0.843	0.731	0.895	0.000	0.000	0.901	0.923
Cars	0	567	1	0	568	0	0	0	0	0	187	0	0	0	187	38	308	0	0	346	1101
Cars %	0.0	96.1	50.0	0.0	95.9	0.0	0.0	0.0	0.0	0.0	94.0	0.0	0.0	0.0	94.0	100.0	97.8	0.0	0.0	98.0	96.2
Heavy Vehicles	0	23	1	0	24	0	0	0	0	0	12	0	0	0	12	0	7	0	0	7	43
Heavy Vehicles %	0.0	3.9	50.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	6.0	0.0	2.2	0.0	0.0	2.0	3.8
Cars Enter Leg	0	567	1	0	568	0	0	0	0	0	187	0	0	0	187	38	308	0	0	346	1101
Heavy Enter Leg	0	23	1	0	24	0	0	0	0	0	12	0	0	0	12	0	7	0	0	7	43
Total Entering Leg	0	590	2	0	592	0	0	0	0	0	199	0	0	0	199	38	315	0	0	353	1144
Cars Exiting Leg	0					496					605					0					1101
Heavy Exiting Leg	0					20					23					0					43
Total Exiting Leg	0					516					628					0					1144

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	132	1	0	133	0	0	0	0	0	35	0	0	0	35	9	43	0	0	52	220
7:15 AM	0	147	0	0	147	0	0	0	0	0	38	0	0	0	38	5	62	0	0	67	252
7:30 AM	0	141	0	0	141	0	0	0	0	0	38	0	0	0	38	13	57	0	0	70	249
7:45 AM	0	159	0	0	159	0	0	0	0	0	53	0	0	0	53	4	80	0	0	84	296
Total	0	579	1	0	580	0	0	0	0	0	164	0	0	0	164	31	242	0	0	273	1017
8:00 AM	0	143	1	0	144	0	0	0	0	0	56	0	0	0	56	13	70	0	0	83	283
8:15 AM	0	117	0	0	117	0	0	0	0	0	40	0	0	0	40	10	86	0	0	96	253
8:30 AM	0	148	0	0	148	0	0	0	0	0	38	0	0	0	38	11	72	0	0	83	269
8:45 AM	0	123	0	0	123	0	0	0	0	0	48	0	0	0	48	9	76	0	0	85	256
Total	0	531	1	0	532	0	0	0	0	0	182	0	0	0	182	43	304	0	0	347	1061
Grand Total	0	1110	2	0	1112	0	0	0	0	0	346	0	0	0	346	74	546	0	0	620	2078
Approach %	0.0	99.8	0.2	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		11.9	88.1	0.0	0.0		
Total %	0.0	53.4	0.1	0.0	53.5	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	16.7	3.6	26.3	0.0	0.0	29.8	
Exiting Leg Total	0					894					1184					0					2078

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	159	0	0	159	0	0	0	0	0	53	0	0	0	53	4	80	0	0	84	296
7:45 AM	0	143	1	0	144	0	0	0	0	0	56	0	0	0	56	13	70	0	0	83	283
8:00 AM	0	117	0	0	117	0	0	0	0	0	40	0	0	0	40	10	86	0	0	96	253
8:15 AM	0	148	0	0	148	0	0	0	0	0	38	0	0	0	38	11	72	0	0	83	269
Total Volume	0	567	1	0	568	0	0	0	0	0	187	0	0	0	187	38	308	0	0	346	1101
% Approach Total	0.0	99.8	0.2	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		11.0	89.0	0.0	0.0		
PHF	0.000	0.892	0.250	0.000	0.893	0.000	0.000	0.000	0.000	0.000	0.835	0.000	0.000	0.000	0.835	0.731	0.895	0.000	0.000	0.901	0.930
Entering Leg	0	567	1	0	568	0	0	0	0	0	187	0	0	0	187	38	308	0	0	346	1101
Exiting Leg	0					496					605					0					1101
Total	568					496					792					346					2202

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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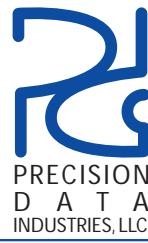
Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	5
7:15 AM	0	7	0	0	7	0	0	0	0	0	3	0	0	0	3	2	1	0	0	3	13
7:30 AM	0	5	0	0	5	0	0	0	0	0	6	0	0	0	6	1	1	0	0	2	13
7:45 AM	0	7	0	0	7	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	14
Total	0	21	0	0	21	0	0	0	0	0	16	0	0	0	16	3	5	0	0	8	45
8:00 AM	0	7	1	0	8	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	11
8:15 AM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	2	0	0	2	7
8:30 AM	0	7	0	0	7	0	0	0	0	0	1	0	0	0	1	0	3	0	0	3	11
8:45 AM	0	3	0	0	3	0	0	0	0	0	4	0	0	0	4	0	1	0	0	1	8
Total	0	19	1	0	20	0	0	0	0	0	10	0	0	0	10	0	7	0	0	7	37
Grand Total	0	40	1	0	41	0	0	0	0	0	26	0	0	0	26	3	12	0	0	15	82
Approach %	0.0	97.6	2.4	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		20.0	80.0	0.0	0.0		
Total %	0.0	48.8	1.2	0.0	50.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0	0.0	0.0	31.7	3.7	14.6	0.0	0.0	18.3	
Exiting Leg Total	0					39					43					0					82
Large Trucks	0	31	1	0	32	0	0	0	0	0	16	0	0	0	16	2	8	0	0	10	58
% Large Trucks	0.0	77.5	100.0	0.0	78.0	0.0	0.0	0.0	0.0	0.0	61.5	0.0	0.0	0.0	61.5	66.7	66.7	0.0	0.0	66.7	70.7
Exiting Leg Total	0					25					33					0					58
Buses	0	9	0	0	9	0	0	0	0	0	10	0	0	0	10	1	4	0	0	5	24
% Buses	0.0	22.5	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	38.5	0.0	0.0	0.0	38.5	33.3	33.3	0.0	0.0	33.3	29.3
Exiting Leg Total	0					14					10					0					24

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	7	0	0	7	0	0	0	0	0	3	0	0	0	3	2	1	0	0	3	13
7:30 AM	0	5	0	0	5	0	0	0	0	0	6	0	0	0	6	1	1	0	0	2	13
7:45 AM	0	7	0	0	7	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	14
8:00 AM	0	7	1	0	8	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	11
Total Volume	0	26	1	0	27	0	0	0	0	0	17	0	0	0	17	3	4	0	0	7	51
% Approach Total	0.0	96.3	3.7	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		42.9	57.1	0.0	0.0		
PHF	0.000	0.929	0.250	0.000	0.844	0.000	0.000	0.000	0.000	0.000	0.708	0.000	0.000	0.000	0.708	0.375	1.000	0.000	0.000	0.583	0.911
Large Trucks	0	20	1	0	21	0	0	0	0	0	11	0	0	0	11	2	3	0	0	5	37
Large Trucks %	0.0	76.9	100.0	0.0	77.8	0.0	0.0	0.0	0.0	0.0	64.7	0.0	0.0	0.0	64.7	66.7	75.0	0.0	0.0	71.4	72.5
Buses	0	6	0	0	6	0	0	0	0	0	6	0	0	0	6	1	1	0	0	2	14
Buses %	0.0	23.1	0.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	35.3	0.0	0.0	0.0	35.3	33.3	25.0	0.0	0.0	28.6	27.5
Trucks Enter Leg	0	20	1	0	21	0	0	0	0	0	11	0	0	0	11	2	3	0	0	5	37
Bus Enter Leg	0	6	0	0	6	0	0	0	0	0	6	0	0	0	6	1	1	0	0	2	14
Total Entering Leg	0	26	1	0	27	0	0	0	0	0	17	0	0	0	17	3	4	0	0	7	51
Trucks Exiting Leg	0					15					22					0					37
Buses Exiting Leg	0					7					7					0					14
Total Exiting Leg	0					22					29					0					51

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
7:15 AM	0	5	0	0	5	0	0	0	0	0	1	0	0	0	1	1	1	0	0	2	8
7:30 AM	0	4	0	0	4	0	0	0	0	0	5	0	0	0	5	1	1	0	0	2	11
7:45 AM	0	5	0	0	5	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	8
Total	0	15	0	0	15	0	0	0	0	0	9	0	0	0	9	2	4	0	0	6	30
8:00 AM	0	6	1	0	7	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	10
8:15 AM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	5
8:30 AM	0	5	0	0	5	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	7
8:45 AM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	6
Total	0	16	1	0	17	0	0	0	0	0	7	0	0	0	7	0	4	0	0	4	28
Grand Total	0	31	1	0	32	0	0	0	0	0	16	0	0	0	16	2	8	0	0	10	58
Approach %	0.0	96.9	3.1	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		20.0	80.0	0.0	0.0		
Total %	0.0	53.4	1.7	0.0	55.2	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	0.0	27.6	3.4	13.8	0.0	0.0	17.2	
Exiting Leg Total	0					25					33					0					58

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	5	0	0	5	0	0	0	0	0	1	0	0	0	1	1	1	0	0	2	8
7:30 AM	0	4	0	0	4	0	0	0	0	0	5	0	0	0	5	1	1	0	0	2	11
7:45 AM	0	5	0	0	5	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	8
8:00 AM	0	6	1	0	7	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	10
Total Volume	0	20	1	0	21	0	0	0	0	0	11	0	0	0	11	2	3	0	0	5	37
% Approach Total	0.0	95.2	4.8	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		40.0	60.0	0.0	0.0		
PHF	0.000	0.833	0.250	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.550	0.000	0.000	0.000	0.550	0.500	0.750	0.000	0.000	0.625	0.841
Entering Leg	0	20	1	0	21	0	0	0	0	0	11	0	0	0	11	2	3	0	0	5	37
Exiting Leg	0					15					22					0					37
Total	21					15					33					5					74

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
7:15 AM	0	2	0	0	2	0	0	0	0	0	2	0	0	0	2	1	0	0	0	1	5
7:30 AM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
7:45 AM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	6
Total	0	6	0	0	6	0	0	0	0	0	7	0	0	0	7	1	1	0	0	2	15
8:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	2
8:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	2
Total	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	0	3	0	0	3	9
Grand Total	0	9	0	0	9	0	0	0	0	0	10	0	0	0	10	1	4	0	0	5	24
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		20.0	80.0	0.0	0.0		
Total %	0.0	37.5	0.0	0.0	37.5	0.0	0.0	0.0	0.0	0.0	41.7	0.0	0.0	0.0	41.7	4.2	16.7	0.0	0.0	20.8	
Exiting Leg Total	0					14					10					0					24

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
7:15 AM	0	2	0	0	2	0	0	0	0	0	2	0	0	0	2	1	0	0	0	1	5
7:30 AM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
7:45 AM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	6
Total Volume	0	6	0	0	6	0	0	0	0	0	7	0	0	0	7	1	1	0	0	2	15
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		50.0	50.0	0.0	0.0		
PHF	0.000	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.583	0.000	0.000	0.000	0.583	0.250	0.250	0.000	0.000	0.500	0.625
Entering Leg	0	6	0	0	6	0	0	0	0	0	7	0	0	0	7	1	1	0	0	2	15
Exiting Leg	0					8					7					0					15
Total	6					8					14					2					30

PDI File #: 175971 C
 Location: N: Elm Street S: Elm Street
 Location: E: Cutter Avenue W: Russell Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total		
	from North							from East							from South							from West									
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total			
7:00 AM	0	10	0	0	0	0	10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	12
7:15 AM	0	14	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	16
7:30 AM	0	16	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	17
7:45 AM	1	11	0	0	0	0	12	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	1	0	0	0	0	0	0	1	17
Total	1	51	0	0	0	0	52	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	3	2	0	0	0	0	0	5	62
8:00 AM	0	27	0	0	0	0	27	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	32
8:15 AM	0	16	0	0	0	0	16	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	19
8:30 AM	0	25	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
8:45 AM	0	17	0	0	0	1	18	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	22
Total	0	85	0	0	0	1	86	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	98
Grand Total	1	136	0	0	0	1	138	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17	3	2	0	0	0	0	0	5	160
Approach %	0.7	98.6	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	60.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0					
Total %	0.6	85.0	0.0	0.0	0.0	0.6	86.3	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0	10.6	1.9	1.3	0.0	0.0	0.0	0.0	0.0	3.1			
Exiting Leg Total	1							19							139							1	160								

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total		
	from North							from East							from South							from West									
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total			
8:00 AM	0	27	0	0	0	0	27	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	32
8:15 AM	0	16	0	0	0	0	16	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	19
8:30 AM	0	25	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
8:45 AM	0	17	0	0	0	1	18	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	22
Total Volume	0	85	0	0	0	1	86	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	98
% Approach Total	0.0	98.8	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
PHF	0.000	0.787	0.000	0.000	0.000	0.250	0.796	0.000	0.000	0.000	0.000	0.000	0.000	0.600	0.000	0.000	0.000	0.000	0.000	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.766			
Entering Leg	0	85	0	0	0	1	86	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	98
Exiting Leg	1							12							85							0	98								
Total	87							12							97							0	196								

PDI File #: 175971 C
 Location: N: Elm Street S: Elm Street
 Location: E: Cutter Avenue W: Russell Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	1	2	3	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	7	2	9	14		
7:15 AM	0	0	0	0	0	1	1	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	4	9	13	17			
7:30 AM	0	0	0	0	2	1	3	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	9	13	22		
7:45 AM	0	0	0	0	3	1	4	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	6	10	16		
Total	0	0	0	0	6	5	11	0	0	0	0	0	7	7	0	0	0	0	2	0	2	0	0	0	26	34	60	80	
8:00 AM	0	0	0	0	1	1	2	0	0	0	0	3	2	5	0	0	0	0	0	0	0	0	6	7	13	20			
8:15 AM	0	0	0	0	0	1	1	0	0	0	0	0	3	3	0	0	0	0	1	0	1	0	0	0	10	10	20		
8:30 AM	0	0	0	0	1	0	1	0	0	0	0	1	7	8	0	0	0	0	1	1	2	0	0	0	8	6	14		
8:45 AM	0	0	0	0	0	3	3	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	9	6	15		
Total	0	0	0	0	2	5	7	0	0	0	0	4	17	21	0	0	0	0	2	1	3	0	0	0	33	29	62	93	
Grand Total	0	0	0	0	8	10	18	0	0	0	0	4	24	28	0	0	0	0	4	1	5	0	0	0	59	63	122	173	
Approach %	0.0	0.0	0.0	0.0	44.4	55.6		0.0	0.0	0.0	0.0	14.3	85.7		0.0	0.0	0.0	0.0	80.0	20.0		0.0	0.0	0.0	48.4	51.6			
Total %	0.0	0.0	0.0	0.0	4.6	5.8	10.4	0.0	0.0	0.0	0.0	2.3	13.9	16.2	0.0	0.0	0.0	0.0	2.3	0.6	2.9	0.0	0.0	0.0	34.1	36.4	70.5		
Exiting Leg Total	18							28							5							122							173

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:30 AM	0	0	0	0	2	1	3	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	9	13	22	27	
7:45 AM	0	0	0	0	3	1	4	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	6	10	16	22	
8:00 AM	0	0	0	0	1	1	2	0	0	0	0	3	2	5	0	0	0	0	0	0	0	0	0	0	6	7	13	20	
8:15 AM	0	0	0	0	0	1	1	0	0	0	0	0	3	3	0	0	0	0	1	0	1	0	0	0	10	10	20	25	
Total Volume	0	0	0	0	6	4	10	0	0	0	0	3	7	10	0	0	0	0	3	0	3	0	0	0	31	40	71	94	
% Approach Total	0.0	0.0	0.0	0.0	60.0	40.0		0.0	0.0	0.0	0.0	30.0	70.0		0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	43.7	56.3			
PHF	0.000	0.000	0.000	0.000	0.500	1.000	0.625	0.000	0.000	0.000	0.000	0.250	0.583	0.500	0.000	0.000	0.000	0.000	0.750	0.000	0.750	0.000	0.000	0.000	0.000	0.775	0.769	0.807	0.870
Entering Leg	0	0	0	0	6	4	10	0	0	0	0	3	7	10	0	0	0	0	3	0	3	0	0	0	31	40	71	94	
Exiting Leg	10							10							3							71							94
Total	20							20							6							142							188

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	59	0	0	59	0	0	0	0	0	75	0	0	0	75	8	71	0	0	79	213
4:15 PM	0	80	1	0	81	0	0	0	0	0	90	0	0	0	90	5	85	0	0	90	261
4:30 PM	0	95	0	0	95	0	0	0	0	0	78	0	0	0	78	3	108	0	0	111	284
4:45 PM	0	75	0	0	75	0	0	0	0	0	68	0	0	0	68	3	106	0	0	109	252
Total	0	309	1	0	310	0	0	0	0	0	311	0	0	0	311	19	370	0	0	389	1010
5:00 PM	0	84	0	0	84	0	0	0	0	0	87	0	0	0	87	8	99	0	0	107	278
5:15 PM	0	86	0	0	86	0	0	0	0	0	84	0	0	0	84	5	93	0	0	98	268
5:30 PM	0	67	0	0	67	0	0	0	0	0	97	0	0	0	97	5	98	0	0	103	267
5:45 PM	0	70	1	0	71	0	0	0	0	0	67	0	0	0	67	8	98	0	0	106	244
Total	0	307	1	0	308	0	0	0	0	0	335	0	0	0	335	26	388	0	0	414	1057
Grand Total	0	616	2	0	618	0	0	0	0	0	646	0	0	0	646	45	758	0	0	803	2067
Approach %	0.0	99.7	0.3	0.0		0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0		5.6	94.4	0.0	0.0		
Total %	0.0	29.8	0.1	0.0	29.9	0.0	0.0	0.0	0.0	0.0	31.3	0.0	0.0	0.0	31.3	2.2	36.7	0.0	0.0	38.8	
Exiting Leg Total	0					1406					661					0					2067
Cars	0	597	2	0	599	0	0	0	0	0	626	0	0	0	626	45	754	0	0	799	2024
% Cars	0.0	96.9	100.0	0.0	96.9	0.0	0.0	0.0	0.0	0.0	96.9	0.0	0.0	0.0	96.9	100.0	99.5	0.0	0.0	99.5	97.9
Exiting Leg Total	0					1382					642					0					2024
Heavy Vehicles	0	19	0	0	19	0	0	0	0	0	20	0	0	0	20	0	4	0	0	4	43
% Heavy Vehicles	0.0	3.1	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	3.1	0.0	0.5	0.0	0.0	0.5	2.1
Exiting Leg Total	0					24					19					0					43

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	0	95	0	0	95	0	0	0	0	0	78	0	0	0	78	3	108	0	0	111	284
4:45 PM	0	75	0	0	75	0	0	0	0	0	68	0	0	0	68	3	106	0	0	109	252
5:00 PM	0	84	0	0	84	0	0	0	0	0	87	0	0	0	87	8	99	0	0	107	278
5:15 PM	0	86	0	0	86	0	0	0	0	0	84	0	0	0	84	5	93	0	0	98	268
Total Volume	0	340	0	0	340	0	0	0	0	0	317	0	0	0	317	19	406	0	0	425	1082
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0		4.5	95.5	0.0	0.0		
PHF	0.000	0.895	0.000	0.000	0.895	0.000	0.000	0.000	0.000	0.000	0.911	0.000	0.000	0.000	0.911	0.594	0.940	0.000	0.000	0.957	0.952
Cars	0	331	0	0	331	0	0	0	0	0	306	0	0	0	306	19	405	0	0	424	1061
Cars %	0.0	97.4	0.0	0.0	97.4	0.0	0.0	0.0	0.0	0.0	96.5	0.0	0.0	0.0	96.5	100.0	99.8	0.0	0.0	99.8	98.1
Heavy Vehicles	0	9	0	0	9	0	0	0	0	0	11	0	0	0	11	0	1	0	0	1	21
Heavy Vehicles %	0.0	2.6	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	3.5	0.0	0.2	0.0	0.0	0.2	1.9
Cars Enter Leg	0	331	0	0	331	0	0	0	0	0	306	0	0	0	306	19	405	0	0	424	1061
Heavy Enter Leg	0	9	0	0	9	0	0	0	0	0	11	0	0	0	11	0	1	0	0	1	21
Total Entering Leg	0	340	0	0	340	0	0	0	0	0	317	0	0	0	317	19	406	0	0	425	1082
Cars Exiting Leg	0					711					350					0					1061
Heavy Exiting Leg	0					12					9					0					21
Total Exiting Leg	0					723					359					0					1082

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	56	0	0	56	0	0	0	0	0	72	0	0	0	72	8	70	0	0	78	206
4:15 PM	0	77	1	0	78	0	0	0	0	0	88	0	0	0	88	5	85	0	0	90	256
4:30 PM	0	91	0	0	91	0	0	0	0	0	74	0	0	0	74	3	107	0	0	110	275
4:45 PM	0	74	0	0	74	0	0	0	0	0	66	0	0	0	66	3	106	0	0	109	249
Total	0	298	1	0	299	0	0	0	0	0	300	0	0	0	300	19	368	0	0	387	986
5:00 PM	0	83	0	0	83	0	0	0	0	0	85	0	0	0	85	8	99	0	0	107	275
5:15 PM	0	83	0	0	83	0	0	0	0	0	81	0	0	0	81	5	93	0	0	98	262
5:30 PM	0	65	0	0	65	0	0	0	0	0	94	0	0	0	94	5	97	0	0	102	261
5:45 PM	0	68	1	0	69	0	0	0	0	0	66	0	0	0	66	8	97	0	0	105	240
Total	0	299	1	0	300	0	0	0	0	0	326	0	0	0	326	26	386	0	0	412	1038
Grand Total	0	597	2	0	599	0	0	0	0	0	626	0	0	0	626	45	754	0	0	799	2024
Approach %	0.0	99.7	0.3	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		5.6	94.4	0.0	0.0		
Total %	0.0	29.5	0.1	0.0	29.6	0.0	0.0	0.0	0.0	0.0	30.9	0.0	0.0	0.0	30.9	2.2	37.3	0.0	0.0	39.5	
Exiting Leg Total	0					1382					642					0					2024

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	56	0	0	56	0	0	0	0	0	72	0	0	0	72	8	70	0	0	78	206
4:15 PM	0	77	1	0	78	0	0	0	0	0	88	0	0	0	88	5	85	0	0	90	256
4:30 PM	0	91	0	0	91	0	0	0	0	0	74	0	0	0	74	3	107	0	0	110	275
4:45 PM	0	74	0	0	74	0	0	0	0	0	66	0	0	0	66	3	106	0	0	109	249
Total Volume	0	298	1	0	299	0	0	0	0	0	300	0	0	0	300	19	368	0	0	387	986
% Approach Total	0.0	99.7	0.3	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		4.9	95.1	0.0	0.0		
PHF	0.000	0.819	0.250	0.000	0.821	0.000	0.000	0.000	0.000	0.000	0.852	0.000	0.000	0.000	0.852	0.594	0.860	0.000	0.000	0.880	0.896
Entering Leg	0	298	1	0	299	0	0	0	0	0	300	0	0	0	300	19	368	0	0	387	986
Exiting Leg	0					669					317					0					986
Total	299					669					617					387					1972

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	7
4:15 PM	0	3	0	0	3	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	5
4:30 PM	0	4	0	0	4	0	0	0	0	0	4	0	0	0	4	0	1	0	0	1	9
4:45 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	3
Total	0	11	0	0	11	0	0	0	0	0	11	0	0	0	11	0	2	0	0	2	24
5:00 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	3
5:15 PM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	6
5:30 PM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	6
5:45 PM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	4
Total	0	8	0	0	8	0	0	0	0	0	9	0	0	0	9	0	2	0	0	2	19
Grand Total	0	19	0	0	19	0	0	0	0	0	20	0	0	0	20	0	4	0	0	4	43
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	44.2	0.0	0.0	44.2	0.0	0.0	0.0	0.0	0.0	46.5	0.0	0.0	0.0	46.5	0.0	9.3	0.0	0.0	9.3	
Exiting Leg Total	0					24					19					0					43
Large Trucks	0	4	0	0	4	0	0	0	0	0	7	0	0	0	7	0	2	0	0	2	13
% Large Trucks	0.0	21.1	0.0	0.0	21.1	0.0	0.0	0.0	0.0	0.0	35.0	0.0	0.0	0.0	35.0	0.0	50.0	0.0	0.0	50.0	30.2
Exiting Leg Total	0					9					4					0					13
Buses	0	15	0	0	15	0	0	0	0	0	13	0	0	0	13	0	2	0	0	2	30
% Buses	0.0	78.9	0.0	0.0	78.9	0.0	0.0	0.0	0.0	0.0	65.0	0.0	0.0	0.0	65.0	0.0	50.0	0.0	0.0	50.0	69.8
Exiting Leg Total	0					15					15					0					30

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	7
4:15 PM	0	3	0	0	3	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	5
4:30 PM	0	4	0	0	4	0	0	0	0	0	4	0	0	0	4	0	1	0	0	1	9
4:45 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	3
Total Volume	0	11	0	0	11	0	0	0	0	0	11	0	0	0	11	0	2	0	0	2	24
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.688	0.000	0.000	0.688	0.000	0.000	0.000	0.000	0.000	0.688	0.000	0.000	0.000	0.688	0.000	0.500	0.000	0.000	0.500	0.667
Large Trucks	0	2	0	0	2	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	8
Large Trucks %	0.0	18.2	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	45.5	0.0	0.0	0.0	45.5	0.0	50.0	0.0	0.0	50.0	33.3
Buses	0	9	0	0	9	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	16
Buses %	0.0	81.8	0.0	0.0	81.8	0.0	0.0	0.0	0.0	0.0	54.5	0.0	0.0	0.0	54.5	0.0	50.0	0.0	0.0	50.0	66.7
Trucks Enter Leg	0	2	0	0	2	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	8
Bus Enter Leg	0	9	0	0	9	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	16
Total Entering Leg	0	11	0	0	11	0	0	0	0	0	11	0	0	0	11	0	2	0	0	2	24
Trucks Exiting Leg	0					6					2					0					8
Buses Exiting Leg	0					7					9					0					16
Total Exiting Leg	0					13					11					0					24

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	3
4:15 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
Total	0	2	0	0	2	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	8
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	3
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	2	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	5
Grand Total	0	4	0	0	4	0	0	0	0	0	7	0	0	0	7	0	2	0	0	2	13
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	30.8	0.0	0.0	30.8	0.0	0.0	0.0	0.0	0.0	53.8	0.0	0.0	0.0	53.8	0.0	15.4	0.0	0.0	15.4	
Exiting Leg Total	0					9					4					0					13

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	3
4:15 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
Total Volume	0	2	0	0	2	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	8
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.625	0.000	0.250	0.000	0.000	0.250	0.667
Entering Leg	0	2	0	0	2	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	8
Exiting Leg	0					6					2					0					8
Total	2					6					7					1					16

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



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 Office: 508-875-0100 Fax: 508-875-0118
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Buses

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	2	0	0	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	4
4:15 PM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3
4:30 PM	0	4	0	0	4	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	7
4:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
Total	0	9	0	0	9	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	16
5:00 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
5:15 PM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	6
5:30 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	3
5:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	3
Total	0	6	0	0	6	0	0	0	0	0	7	0	0	0	7	0	1	0	0	1	14
Grand Total	0	15	0	0	15	0	0	0	0	0	13	0	0	0	13	0	2	0	0	2	30
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	43.3	0.0	0.0	0.0	43.3	0.0	6.7	0.0	0.0	6.7	
Exiting Leg Total	0					15					15					0					30

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	0	4	0	0	4	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	7
4:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
5:00 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
5:15 PM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	6
Total Volume	0	9	0	0	9	0	0	0	0	0	7	0	0	0	7	0	1	0	0	1	17
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.563	0.000	0.000	0.563	0.000	0.000	0.000	0.000	0.000	0.583	0.000	0.000	0.000	0.583	0.000	0.250	0.000	0.000	0.250	0.607
Entering Leg	0	9	0	0	9	0	0	0	0	0	7	0	0	0	7	0	1	0	0	1	17
Exiting Leg	0					8					9					0					17
Total	9					8					16					1					34

PDI File #: 175971 C
 Location: N: Elm Street S: Elm Street
 Location: E: Cutter Avenue W: Russell Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	1	0	0	0	1	2	6
4:15 PM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:30 PM	0	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5
Total	0	16	0	0	0	0	16	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	1	0	0	0	2	3	22
5:00 PM	0	6	0	0	1	0	7	0	0	0	0	0	2	2	6	0	0	0	0	0	6	0	0	0	0	0	0	0	15
5:15 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	0	0	10
5:30 PM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	9
5:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	14
Total	0	20	0	0	1	0	21	0	0	0	0	0	2	2	25	0	0	0	0	0	25	0	0	0	0	0	0	0	48
Grand Total	0	36	0	0	1	0	37	0	0	0	0	0	2	2	28	0	0	0	0	0	28	0	1	0	0	0	2	3	70
Approach %	0.0	97.3	0.0	0.0	2.7	0.0		0.0	0.0	0.0	0.0	0.0	100.0		100.0	0.0	0.0	0.0	0.0	0.0		0.0	33.3	0.0	0.0	0.0	66.7		
Total %	0.0	51.4	0.0	0.0	1.4	0.0	52.9	0.0	0.0	0.0	0.0	0.0	2.9	2.9	40.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	1.4	0.0	0.0	0.0	2.9	4.3	
Exiting Leg Total	1							31							36							2	70						

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	6	0	0	1	0	7	0	0	0	0	0	2	2	6	0	0	0	0	0	6	0	0	0	0	0	0	0	15
5:15 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	0	0	10
5:30 PM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	9
5:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	0	0	14
Total Volume	0	20	0	0	1	0	21	0	0	0	0	0	2	2	25	0	0	0	0	0	25	0	0	0	0	0	0	0	48
% Approach Total	0.0	95.2	0.0	0.0	4.8	0.0		0.0	0.0	0.0	0.0	0.0	100.0		100.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.833	0.000	0.000	0.250	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.625	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.800	
Entering Leg	0	20	0	0	1	0	21	0	0	0	0	0	2	2	25	0	0	0	0	0	25	0	0	0	0	0	0	0	48
Exiting Leg	1							27							20							0	48						
Total	22							29							45							0	96						

PDI File #: 175971 C
 Location: N: Elm Street S: Elm Street
 Location: E: Cutter Avenue W: Russell Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	0	2	1	3	0	0	0	0	1	2	3	0	0	0	0	2	0	2	0	0	0	0	5	14	19	27
4:15 PM	0	0	0	0	2	2	4	0	0	0	0	1	3	4	0	0	0	0	0	1	1	0	0	0	0	2	11	13	22
4:30 PM	0	0	0	0	3	1	4	0	0	0	0	2	2	4	0	0	0	0	0	0	0	0	0	0	6	4	10	18	
4:45 PM	0	0	0	0	5	3	8	0	0	0	0	0	0	0	0	0	0	0	2	2	4	0	0	0	0	11	10	21	33
Total	0	0	0	0	12	7	19	0	0	0	0	4	7	11	0	0	0	0	4	3	7	0	0	0	0	24	39	63	100
5:00 PM	0	0	0	0	6	9	15	0	0	0	0	0	5	5	0	0	0	0	1	0	1	0	0	0	13	24	37	58	
5:15 PM	0	0	0	0	5	4	9	0	0	0	0	8	5	13	0	0	0	0	1	1	2	0	0	0	0	11	20	31	55
5:30 PM	0	0	0	0	8	2	10	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	17	16	33	47	
5:45 PM	0	0	0	0	8	1	9	0	0	0	0	4	4	8	0	0	0	0	0	0	0	0	0	0	25	13	38	55	
Total	0	0	0	0	27	16	43	0	0	0	0	12	18	30	0	0	0	0	2	1	3	0	0	0	0	66	73	139	215
Grand Total	0	0	0	0	39	23	62	0	0	0	0	16	25	41	0	0	0	0	6	4	10	0	0	0	0	90	112	202	315
Approach %	0.0	0.0	0.0	0.0	62.9	37.1		0.0	0.0	0.0	0.0	39.0	61.0		0.0	0.0	0.0	0.0	60.0	40.0		0.0	0.0	0.0	0.0	44.6	55.4		
Total %	0.0	0.0	0.0	0.0	12.4	7.3	19.7	0.0	0.0	0.0	0.0	5.1	7.9	13.0	0.0	0.0	0.0	0.0	1.9	1.3	3.2	0.0	0.0	0.0	0.0	28.6	35.6	64.1	
Exiting Leg Total	62							41							10							202							315

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	0	0	0	6	9	15	0	0	0	0	0	5	5	0	0	0	0	1	0	1	0	0	0	0	13	24	37	58
5:15 PM	0	0	0	0	5	4	9	0	0	0	0	8	5	13	0	0	0	0	1	1	2	0	0	0	0	11	20	31	55
5:30 PM	0	0	0	0	8	2	10	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	17	16	33	47	
5:45 PM	0	0	0	0	8	1	9	0	0	0	0	4	4	8	0	0	0	0	0	0	0	0	0	0	25	13	38	55	
Total Volume	0	0	0	0	27	16	43	0	0	0	0	12	18	30	0	0	0	0	2	1	3	0	0	0	0	66	73	139	215
% Approach Total	0.0	0.0	0.0	0.0	62.8	37.2		0.0	0.0	0.0	0.0	40.0	60.0		0.0	0.0	0.0	0.0	66.7	33.3		0.0	0.0	0.0	0.0	47.5	52.5		
PHF	0.000	0.000	0.000	0.000	0.844	0.444	0.717	0.000	0.000	0.000	0.000	0.375	0.900	0.577	0.000	0.000	0.000	0.000	0.500	0.250	0.375	0.000	0.000	0.000	0.000	0.660	0.760	0.914	0.927
Entering Leg	0	0	0	0	27	16	43	0	0	0	0	12	18	30	0	0	0	0	2	1	3	0	0	0	0	66	73	139	215
Exiting Leg	43							30							3							139							215
Total	86							60							6							278							430

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	104	1	0	105	0	0	0	0	0	76	0	0	0	76	10	61	0	0	71	252
11:15 AM	0	100	3	0	103	0	0	1	0	1	73	0	0	0	73	17	55	0	0	72	249
11:30 AM	0	110	1	0	111	0	0	0	0	0	77	0	0	0	77	10	63	0	0	73	261
11:45 AM	0	95	0	0	95	0	0	0	0	0	49	0	0	0	49	13	88	0	0	101	245
Total	0	409	5	0	414	0	0	1	0	1	275	0	0	0	275	50	267	0	0	317	1007
12:00 PM	0	96	1	0	97	0	0	0	0	0	48	0	0	0	48	7	85	0	0	92	237
12:15 PM	0	105	0	0	105	0	0	0	0	0	64	0	0	0	64	13	68	0	0	81	250
12:30 PM	0	101	1	0	102	0	0	0	0	0	66	0	0	0	66	8	89	0	0	97	265
12:45 PM	0	85	0	0	85	0	0	0	0	0	79	0	0	0	79	4	89	0	0	93	257
Total	0	387	2	0	389	0	0	0	0	0	257	0	0	0	257	32	331	0	0	363	1009
1:00 PM	0	83	0	0	83	0	0	0	0	0	80	0	0	1	81	8	77	0	0	85	249
1:15 PM	0	101	0	0	101	0	0	0	0	0	55	0	0	0	55	11	76	0	0	87	243
1:30 PM	0	81	0	0	81	0	0	0	0	0	69	0	0	0	69	14	62	0	0	76	226
1:45 PM	0	100	2	0	102	0	0	0	0	0	69	0	0	0	69	11	77	0	0	88	259
Total	0	365	2	0	367	0	0	0	0	0	273	0	0	1	274	44	292	0	0	336	977
Grand Total	0	1161	9	0	1170	0	0	1	0	1	805	0	0	1	806	126	890	0	0	1016	2993
Approach %	0.0	99.2	0.8	0.0		0.0	0.0	100.0	0.0		99.9	0.0	0.0	0.1		12.4	87.6	0.0	0.0		
Total %	0.0	38.8	0.3	0.0	39.1	0.0	0.0	0.0	0.0	0.0	26.9	0.0	0.0	0.0	26.9	4.2	29.7	0.0	0.0	33.9	
Exiting Leg Total	0					1704					1289					0					2993
Cars	0	1136	9	0	1145	0	0	1	0	1	782	0	0	1	783	125	884	0	0	1009	2938
% Cars	0.0	97.8	100.0	0.0	97.9	0.0	0.0	100.0	0.0	100.0	97.1	0.0	0.0	100.0	97.1	99.2	99.3	0.0	0.0	99.3	98.2
Exiting Leg Total	0					1675					1263					0					2938
Heavy Vehicles	0	25	0	0	25	0	0	0	0	0	23	0	0	0	23	1	6	0	0	7	55
% Heavy Vehicles	0.0	2.2	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	2.9	0.8	0.7	0.0	0.0	0.7	1.8
Exiting Leg Total	0					29					26					0					55

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	0	105	0	0	105	0	0	0	0	0	64	0	0	0	64	13	68	0	0	81	250
12:30 PM	0	101	1	0	102	0	0	0	0	0	66	0	0	0	66	8	89	0	0	97	265
12:45 PM	0	85	0	0	85	0	0	0	0	0	79	0	0	0	79	4	89	0	0	93	257
1:00 PM	0	83	0	0	83	0	0	0	0	0	80	0	0	1	81	8	77	0	0	85	249
Total Volume	0	374	1	0	375	0	0	0	0	0	289	0	0	1	290	33	323	0	0	356	1021
% Approach Total	0.0	99.7	0.3	0.0		0.0	0.0	0.0	0.0		99.7	0.0	0.0	0.3		9.3	90.7	0.0	0.0		
PHF	0.000	0.890	0.250	0.000	0.893	0.000	0.000	0.000	0.000	0.000	0.903	0.000	0.000	0.250	0.895	0.635	0.907	0.000	0.000	0.918	0.963
Cars	0	364	1	0	365	0	0	0	0	0	280	0	0	1	281	33	321	0	0	354	1000
Cars %	0.0	97.3	100.0	0.0	97.3	0.0	0.0	0.0	0.0	0.0	96.9	0.0	0.0	100.0	96.9	100.0	99.4	0.0	0.0	99.4	97.9
Heavy Vehicles	0	10	0	0	10	0	0	0	0	0	9	0	0	0	9	0	2	0	0	2	21
Heavy Vehicles %	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	3.1	0.0	0.6	0.0	0.0	0.6	2.1
Cars Enter Leg	0	364	1	0	365	0	0	0	0	0	280	0	0	1	281	33	321	0	0	354	1000
Heavy Enter Leg	0	10	0	0	10	0	0	0	0	0	9	0	0	0	9	0	2	0	0	2	21
Total Entering Leg	0	374	1	0	375	0	0	0	0	0	289	0	0	1	290	33	323	0	0	356	1021
Cars Exiting Leg	0					602					398					0					1000
Heavy Exiting Leg	0					11					10					0					21
Total Exiting Leg	0					613					408					0					1021

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	102	1	0	103	0	0	0	0	0	74	0	0	0	74	10	60	0	0	70	247
11:15 AM	0	98	3	0	101	0	0	1	0	1	70	0	0	0	70	17	55	0	0	72	244
11:30 AM	0	108	1	0	109	0	0	0	0	0	77	0	0	0	77	10	62	0	0	72	258
11:45 AM	0	93	0	0	93	0	0	0	0	0	48	0	0	0	48	13	88	0	0	101	242
Total	0	401	5	0	406	0	0	1	0	1	269	0	0	0	269	50	265	0	0	315	991
12:00 PM	0	95	1	0	96	0	0	0	0	0	45	0	0	0	45	7	85	0	0	92	233
12:15 PM	0	101	0	0	101	0	0	0	0	0	62	0	0	0	62	13	68	0	0	81	244
12:30 PM	0	99	1	0	100	0	0	0	0	0	65	0	0	0	65	8	89	0	0	97	262
12:45 PM	0	83	0	0	83	0	0	0	0	0	76	0	0	0	76	4	88	0	0	92	251
Total	0	378	2	0	380	0	0	0	0	0	248	0	0	0	248	32	330	0	0	362	990
1:00 PM	0	81	0	0	81	0	0	0	0	0	77	0	0	1	78	8	76	0	0	84	243
1:15 PM	0	98	0	0	98	0	0	0	0	0	52	0	0	0	52	10	76	0	0	86	236
1:30 PM	0	81	0	0	81	0	0	0	0	0	69	0	0	0	69	14	62	0	0	76	226
1:45 PM	0	97	2	0	99	0	0	0	0	0	67	0	0	0	67	11	75	0	0	86	252
Total	0	357	2	0	359	0	0	0	0	0	265	0	0	1	266	43	289	0	0	332	957
Grand Total	0	1136	9	0	1145	0	0	1	0	1	782	0	0	1	783	125	884	0	0	1009	2938
Approach %	0.0	99.2	0.8	0.0		0.0	0.0	100.0	0.0		99.9	0.0	0.0	0.1		12.4	87.6	0.0	0.0		
Total %	0.0	38.7	0.3	0.0	39.0	0.0	0.0	0.0	0.0	0.0	26.6	0.0	0.0	0.0	26.7	4.3	30.1	0.0	0.0	34.3	
Exiting Leg Total	0					1675					1263					0					2938

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	0	101	0	0	101	0	0	0	0	0	62	0	0	0	62	13	68	0	0	81	244
12:30 PM	0	99	1	0	100	0	0	0	0	0	65	0	0	0	65	8	89	0	0	97	262
12:45 PM	0	83	0	0	83	0	0	0	0	0	76	0	0	0	76	4	88	0	0	92	251
1:00 PM	0	81	0	0	81	0	0	0	0	0	77	0	0	1	78	8	76	0	0	84	243
Total Volume	0	364	1	0	365	0	0	0	0	0	280	0	0	1	281	33	321	0	0	354	1000
% Approach Total	0.0	99.7	0.3	0.0		0.0	0.0	0.0	0.0		99.6	0.0	0.0	0.4		9.3	90.7	0.0	0.0		
PHF	0.000	0.901	0.250	0.000	0.903	0.000	0.000	0.000	0.000	0.000	0.909	0.000	0.000	0.250	0.901	0.635	0.902	0.000	0.000	0.912	0.954
Entering Leg	0	364	1	0	365	0	0	0	0	0	280	0	0	1	281	33	321	0	0	354	1000
Exiting Leg	0					602					398					0					1000
Total	365					602					679					354					2000

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	2	0	0	2	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	5
11:15 AM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	5
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3
11:45 AM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3
Total	0	8	0	0	8	0	0	0	0	0	6	0	0	0	6	0	2	0	0	2	16
12:00 PM	0	1	0	0	1	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	4
12:15 PM	0	4	0	0	4	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	6
12:30 PM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3
12:45 PM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	6
Total	0	9	0	0	9	0	0	0	0	0	9	0	0	0	9	0	1	0	0	1	19
1:00 PM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	6
1:15 PM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	1	0	0	0	1	7
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	3	0	0	3	0	0	0	0	0	2	0	0	0	2	0	2	0	0	2	7
Total	0	8	0	0	8	0	0	0	0	0	8	0	0	0	8	1	3	0	0	4	20
Grand Total	0	25	0	0	25	0	0	0	0	0	23	0	0	0	23	1	6	0	0	7	55
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		14.3	85.7	0.0	0.0		
Total %	0.0	45.5	0.0	0.0	45.5	0.0	0.0	0.0	0.0	0.0	41.8	0.0	0.0	0.0	41.8	1.8	10.9	0.0	0.0	12.7	
Exiting Leg Total	0					29					26					0					55
Large Trucks	0	16	0	0	16	0	0	0	0	0	11	0	0	0	11	0	4	0	0	4	31
% Large Trucks	0.0	64.0	0.0	0.0	64.0	0.0	0.0	0.0	0.0	0.0	47.8	0.0	0.0	0.0	47.8	0.0	66.7	0.0	0.0	57.1	56.4
Exiting Leg Total	0					15					16					0					31
Buses	0	9	0	0	9	0	0	0	0	0	12	0	0	0	12	1	2	0	0	3	24
% Buses	0.0	36.0	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	52.2	0.0	0.0	0.0	52.2	100.0	33.3	0.0	0.0	42.9	43.6
Exiting Leg Total	0					14					10					0					24

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3
12:45 PM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	6
1:00 PM	0	2	0	0	2	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	6
1:15 PM	0	3	0	0	3	0	0	0	0	0	3	0	0	0	3	1	0	0	0	1	7
Total Volume	0	9	0	0	9	0	0	0	0	0	10	0	0	0	10	1	2	0	0	3	22
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		33.3	66.7	0.0	0.0		
PHF	0.000	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.833	0.000	0.000	0.000	0.833	0.250	0.500	0.000	0.000	0.750	0.786
Large Trucks	0	5	0	0	5	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	12
Large Trucks %	0.0	55.6	0.0	0.0	55.6	0.0	0.0	0.0	0.0	0.0	60.0	0.0	0.0	0.0	60.0	0.0	50.0	0.0	0.0	33.3	54.5
Buses	0	4	0	0	4	0	0	0	0	0	4	0	0	0	4	1	1	0	0	2	10
Buses %	0.0	44.4	0.0	0.0	44.4	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	40.0	100.0	50.0	0.0	0.0	66.7	45.5
Trucks Enter Leg	0	5	0	0	5	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	12
Bus Enter Leg	0	4	0	0	4	0	0	0	0	0	4	0	0	0	4	1	1	0	0	2	10
Total Entering Leg	0	9	0	0	9	0	0	0	0	0	10	0	0	0	10	1	2	0	0	3	22
Trucks Exiting Leg	0					7					5					0					12
Buses Exiting Leg	0					5					5					0					10
Total Exiting Leg	0					12					10					0					22

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	4
11:15 AM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
11:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	5	0	0	5	0	0	0	0	0	2	0	0	0	2	0	1	0	0	1	8
12:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	2
12:15 PM	0	4	0	0	4	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	5
12:30 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	3
Total	0	6	0	0	6	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	12
1:00 PM	0	2	0	0	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	4
1:15 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	3
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4
Total	0	5	0	0	5	0	0	0	0	0	4	0	0	0	4	0	2	0	0	2	11
Grand Total	0	16	0	0	16	0	0	0	0	0	11	0	0	0	11	0	4	0	0	4	31
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	51.6	0.0	0.0	51.6	0.0	0.0	0.0	0.0	0.0	35.5	0.0	0.0	0.0	35.5	0.0	12.9	0.0	0.0	12.9	
Exiting Leg Total	0					15					16					0					31

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	0	4	0	0	4	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	5
12:30 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	3
1:00 PM	0	2	0	0	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	4
Total Volume	0	8	0	0	8	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	14
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.625	0.000	0.250	0.000	0.000	0.250	0.700
Entering Leg	0	8	0	0	8	0	0	0	0	0	5	0	0	0	5	0	1	0	0	1	14
Exiting Leg	0					6					8					0					14
Total	8					6					13					1					28

PDI File #: **175971 C**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Cutter Avenue W: Russell Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
11:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
11:45 AM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Total	0	3	0	0	3	0	0	0	0	0	4	0	0	0	4	0	1	0	0	1	0	0	0	0	0	8
12:00 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
12:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
Total	0	3	0	0	3	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	7
1:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	2
1:15 PM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	4
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
Total	0	3	0	0	3	0	0	0	0	0	4	0	0	0	4	1	1	0	0	2	0	0	0	0	0	9
Grand Total	0	9	0	0	9	0	0	0	0	0	12	0	0	0	12	1	2	0	0	3	0	0	0	0	0	24
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		33.3	66.7	0.0	0.0							
Total %	0.0	37.5	0.0	0.0	37.5	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	4.2	8.3	0.0	0.0	12.5						
Exiting Leg Total	0					14					10					0					24					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Cutter Avenue					Elm Street					Russell Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
12:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
1:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	2
1:15 PM	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	4
Total Volume	0	4	0	0	4	0	0	0	0	0	4	0	0	0	4	1	1	0	0	2	0	0	0	0	0	10
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		50.0	50.0	0.0	0.0							
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.250	0.250	0.000	0.000	0.500						0.625
Entering Leg	0	4	0	0	4	0	0	0	0	0	4	0	0	0	4	1	1	0	0	2	0	0	0	0	0	10
Exiting Leg	0					5					5					0					10					
Total	4					5					9					2					20					

PDI File #: 175971 C
 Location: N: Elm Street S: Elm Street
 Location: E: Cutter Avenue W: Russell Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total	
	from North							from East							from South							from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	5	0	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	0	1	0	0	0	0	1	9
11:15 AM	0	7	0	0	0	0	7	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6	1	0	0	0	0	0	1	14
11:30 AM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	1	0	0	0	0	0	1	7
11:45 AM	0	9	0	0	0	0	9	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	15
Total	0	25	0	0	0	0	25	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17	2	1	0	0	0	0	3	45
12:00 PM	0	9	0	0	0	0	9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	10
12:15 PM	0	16	0	0	0	0	16	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	18
12:30 PM	0	18	0	0	0	0	18	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0	0	0	1	1	2	25
12:45 PM	0	7	0	0	0	0	7	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	13
Total	0	50	0	0	0	0	50	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14	0	0	0	0	1	1	2	66
1:00 PM	0	12	0	0	1	0	13	0	0	0	0	0	1	1	2	0	0	0	1	0	0	3	0	0	0	0	0	0	0	17
1:15 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	1	0	0	0	0	0	1	9
1:30 PM	0	8	0	0	0	0	8	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	10
1:45 PM	0	14	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	16
Total	0	37	0	0	1	0	38	0	0	0	0	0	2	2	8	0	0	0	1	0	0	9	2	1	0	0	0	0	3	52
Grand Total	0	112	0	0	1	0	113	0	0	0	0	0	2	2	39	0	0	0	1	0	0	40	4	2	0	0	1	1	8	163
Approach %	0.0	99.1	0.0	0.0	0.9	0.0		0.0	0.0	0.0	0.0	0.0	100.0		97.5	0.0	0.0	0.0	2.5	0.0		50.0	25.0	0.0	0.0	12.5	12.5			
Total %	0.0	68.7	0.0	0.0	0.6	0.0	69.3	0.0	0.0	0.0	0.0	0.0	1.2	1.2	23.9	0.0	0.0	0.0	0.6	0.0	24.5		2.5	1.2	0.0	0.0	0.6	0.6	4.9	
Exiting Leg Total							1						43								117							2	163	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total	
	from North							from East							from South							from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
12:15 PM	0	16	0	0	0	0	16	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	18
12:30 PM	0	18	0	0	0	0	18	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0	0	0	1	1	2	25
12:45 PM	0	7	0	0	0	0	7	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6	0	0	0	0	0	0	0	13
1:00 PM	0	12	0	0	1	0	13	0	0	0	0	0	1	1	2	0	0	0	1	0	0	3	0	0	0	0	0	0	0	17
Total Volume	0	53	0	0	1	0	54	0	0	0	0	0	1	1	15	0	0	0	1	0	0	16	0	0	0	0	1	1	2	73
% Approach Total	0.0	98.1	0.0	0.0	1.9	0.0		0.0	0.0	0.0	0.0	0.0	100.0		93.8	0.0	0.0	0.0	6.3	0.0		0.0	0.0	0.0	0.0	50.0	50.0			
PHF	0.000	0.736	0.000	0.000	0.250	0.000	0.750	0.000	0.000	0.000	0.000	0.250	0.250	0.625	0.000	0.000	0.000	0.250	0.000	0.667		0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.730	
Entering Leg	0	53	0	0	1	0	54	0	0	0	0	0	1	1	15	0	0	0	1	0	0	16	0	0	0	0	1	1	2	73
Exiting Leg							1						16								54							2	73	
Total							55						17								70							4	146	

PDI File #: 175971 C
 Location: N: Elm Street S: Elm Street
 Location: E: Cutter Avenue W: Russell Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	13	7	20	0	0	0	0	7	14	21	0	0	0	0	0	0	0	0	21	23	44	85			
11:15 AM	0	0	0	0	5	14	19	0	0	0	0	6	9	15	0	0	0	0	0	2	2	0	0	0	13	22	35	71	
11:30 AM	0	0	0	0	8	9	17	0	0	0	0	6	3	9	0	0	0	0	1	0	1	0	0	0	17	31	48	75	
11:45 AM	0	0	0	0	12	5	17	0	0	0	0	6	10	16	0	0	0	0	1	3	4	0	0	0	22	27	49	86	
Total	0	0	0	0	38	35	73	0	0	0	0	25	36	61	0	0	0	0	2	5	7	0	0	0	73	103	176	317	
12:00 PM	0	0	0	0	8	10	18	0	0	0	0	2	11	13	0	0	0	0	0	0	0	0	29	30	59	90			
12:15 PM	0	0	0	0	6	10	16	0	0	0	0	2	10	12	0	0	0	0	1	0	1	0	0	0	32	43	75	104	
12:30 PM	0	0	0	0	8	10	18	0	0	0	0	5	17	22	0	0	0	0	0	0	0	0	0	0	26	42	68	108	
12:45 PM	0	0	0	0	17	9	26	0	0	0	0	9	16	25	0	0	0	0	1	0	1	0	0	0	32	23	55	107	
Total	0	0	0	0	39	39	78	0	0	0	0	18	54	72	0	0	0	0	2	0	2	0	0	0	119	138	257	409	
1:00 PM	0	0	0	0	3	6	9	0	0	0	0	7	9	16	0	0	0	0	2	2	4	0	0	0	30	26	56	85	
1:15 PM	0	0	0	0	9	7	16	0	0	0	0	11	8	19	0	0	0	0	0	0	0	0	0	0	39	34	73	108	
1:30 PM	0	0	0	0	13	12	25	0	0	0	0	5	11	16	0	0	0	0	0	2	2	0	0	0	29	38	67	110	
1:45 PM	0	0	0	0	3	11	14	0	0	0	0	7	21	28	0	0	0	0	2	0	2	0	0	0	19	27	46	90	
Total	0	0	0	0	28	36	64	0	0	0	0	30	49	79	0	0	0	0	4	4	8	0	0	0	117	125	242	393	
Grand Total	0	0	0	0	105	110	215	0	0	0	0	73	139	212	0	0	0	0	8	9	17	0	0	0	309	366	675	1119	
Approach %	0.0	0.0	0.0	0.0	48.8	51.2		0.0	0.0	0.0	0.0	34.4	65.6		0.0	0.0	0.0	0.0	47.1	52.9		0.0	0.0	0.0	45.8	54.2			
Total %	0.0	0.0	0.0	0.0	9.4	9.8	19.2	0.0	0.0	0.0	0.0	6.5	12.4	18.9	0.0	0.0	0.0	0.0	0.7	0.8	1.5	0.0	0.0	0.0	27.6	32.7	60.3		
Exiting Leg Total	215							212							17							675							1119

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:45 PM	Elm Street							Cutter Avenue							Elm Street							Russell Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
12:45 PM	0	0	0	0	17	9	26	0	0	0	0	9	16	25	0	0	0	0	1	0	1	0	0	0	32	23	55	107	
1:00 PM	0	0	0	0	3	6	9	0	0	0	0	7	9	16	0	0	0	0	2	2	4	0	0	0	30	26	56	85	
1:15 PM	0	0	0	0	9	7	16	0	0	0	0	11	8	19	0	0	0	0	0	0	0	0	0	0	39	34	73	108	
1:30 PM	0	0	0	0	13	12	25	0	0	0	0	5	11	16	0	0	0	0	0	2	2	0	0	0	29	38	67	110	
Total Volume	0	0	0	0	42	34	76	0	0	0	0	32	44	76	0	0	0	0	3	4	7	0	0	0	130	121	251	410	
% Approach Total	0.0	0.0	0.0	0.0	55.3	44.7		0.0	0.0	0.0	0.0	42.1	57.9		0.0	0.0	0.0	0.0	42.9	57.1		0.0	0.0	0.0	51.8	48.2			
PHF	0.000	0.000	0.000	0.000	0.618	0.708	0.731	0.000	0.000	0.000	0.000	0.727	0.688	0.760	0.000	0.000	0.000	0.000	0.375	0.500	0.438	0.000	0.000	0.000	0.000	0.833	0.796	0.860	0.932
Entering Leg	0	0	0	0	42	34	76	0	0	0	0	32	44	76	0	0	0	0	3	4	7	0	0	0	130	121	251	410	
Exiting Leg	76							76							7							251							410
Total	152							152							14							502							820

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	42	96	1	0	139	0	0	0	0	0	13	29	49	0	91	14	13	9	0	36	266
7:15 AM	61	92	3	0	156	0	0	0	0	0	22	39	34	0	95	8	18	11	0	37	288
7:30 AM	37	117	4	0	158	0	0	0	0	0	14	44	32	0	90	17	20	11	0	48	296
7:45 AM	50	110	2	0	162	0	0	0	0	0	21	51	36	0	108	18	19	12	1	50	320
Total	190	415	10	0	615	0	0	0	0	0	70	163	151	0	384	57	70	43	1	171	1170
8:00 AM	58	88	5	0	151	0	0	0	0	0	41	62	49	0	152	13	26	18	0	57	360
8:15 AM	34	85	1	0	120	0	0	0	0	0	28	42	41	0	111	19	26	16	3	64	295
8:30 AM	49	100	5	0	154	0	0	0	0	0	30	41	40	0	111	16	18	13	0	47	312
8:45 AM	46	84	10	0	140	0	0	0	0	0	21	51	41	0	113	20	25	9	0	54	307
Total	187	357	21	0	565	0	0	0	0	0	120	196	171	0	487	68	95	56	3	222	1274
Grand Total	377	772	31	0	1180	0	0	0	0	0	190	359	322	0	871	125	165	99	4	393	2444
Approach %	31.9	65.4	2.6	0.0		0.0	0.0	0.0	0.0	0.0	21.8	41.2	37.0	0.0		31.8	42.0	25.2	1.0		
Total %	15.4	31.6	1.3	0.0	48.3	0.0	0.0	0.0	0.0	0.0	7.8	14.7	13.2	0.0	35.6	5.1	6.8	4.1	0.2	16.1	
Exiting Leg Total	458					386					897					703					2444
Cars	358	749	31	0	1138	0	0	0	0	0	188	336	315	0	839	121	161	95	4	381	2358
% Cars	95.0	97.0	100.0	0.0	96.4	0.0	0.0	0.0	0.0	0.0	98.9	93.6	97.8	0.0	96.3	96.8	97.6	96.0	100.0	96.9	96.5
Exiting Leg Total	431					380					870					677					2358
Heavy Vehicles	19	23	0	0	42	0	0	0	0	0	2	23	7	0	32	4	4	4	0	12	86
% Heavy Vehicles	5.0	3.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	1.1	6.4	2.2	0.0	3.7	3.2	2.4	4.0	0.0	3.1	3.5
Exiting Leg Total	27					6					27					26					86

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	50	110	2	0	162	0	0	0	0	0	21	51	36	0	108	18	19	12	1	50	320
8:00 AM	58	88	5	0	151	0	0	0	0	0	41	62	49	0	152	13	26	18	0	57	360
8:15 AM	34	85	1	0	120	0	0	0	0	0	28	42	41	0	111	19	26	16	3	64	295
8:30 AM	49	100	5	0	154	0	0	0	0	0	30	41	40	0	111	16	18	13	0	47	312
Total Volume	191	383	13	0	587	0	0	0	0	0	120	196	166	0	482	66	89	59	4	218	1287
% Approach Total	32.5	65.2	2.2	0.0		0.0	0.0	0.0	0.0	0.0	24.9	40.7	34.4	0.0		30.3	40.8	27.1	1.8		
PHF	0.823	0.870	0.650	0.000	0.906	0.000	0.000	0.000	0.000	0.000	0.732	0.790	0.847	0.000	0.793	0.868	0.856	0.819	0.333	0.852	0.894
Cars	181	372	13	0	566	0	0	0	0	0	120	184	162	0	466	64	88	56	4	212	1244
Cars %	94.8	97.1	100.0	0.0	96.4	0.0	0.0	0.0	0.0	0.0	100.0	93.9	97.6	0.0	96.7	97.0	98.9	94.9	100.0	97.2	96.7
Heavy Vehicles	10	11	0	0	21	0	0	0	0	0	0	12	4	0	16	2	1	3	0	6	43
Heavy Vehicles %	5.2	2.9	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	6.1	2.4	0.0	3.3	3.0	1.1	5.1	0.0	2.8	3.3
Cars Enter Leg	181	372	13	0	566	0	0	0	0	0	120	184	162	0	466	64	88	56	4	212	1244
Heavy Enter Leg	10	11	0	0	21	0	0	0	0	0	0	12	4	0	16	2	1	3	0	6	43
Total Entering Leg	191	383	13	0	587	0	0	0	0	0	120	196	166	0	482	66	89	59	4	218	1287
Cars Exiting Leg	240					221					436					347					1244
Heavy Exiting Leg	15					1					13					14					43
Total Exiting Leg	255					222					449					361					1287

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	39	94	1	0	134	0	0	0	0	0	13	27	47	0	87	13	13	9	0	35	256
7:15 AM	56	88	3	0	147	0	0	0	0	0	22	37	34	0	93	8	15	10	0	33	273
7:30 AM	36	113	4	0	153	0	0	0	0	0	13	39	31	0	83	17	20	11	0	48	284
7:45 AM	44	108	2	0	154	0	0	0	0	0	21	44	34	0	99	18	19	11	1	49	302
Total	175	403	10	0	588	0	0	0	0	0	69	147	146	0	362	56	67	41	1	165	1115
8:00 AM	57	87	5	0	149	0	0	0	0	0	41	60	48	0	149	13	26	17	0	56	354
8:15 AM	34	80	1	0	115	0	0	0	0	0	28	40	41	0	109	17	26	15	3	61	285
8:30 AM	46	97	5	0	148	0	0	0	0	0	30	40	39	0	109	16	17	13	0	46	303
8:45 AM	46	82	10	0	138	0	0	0	0	0	20	49	41	0	110	19	25	9	0	53	301
Total	183	346	21	0	550	0	0	0	0	0	119	189	169	0	477	65	94	54	3	216	1243
Grand Total	358	749	31	0	1138	0	0	0	0	0	188	336	315	0	839	121	161	95	4	381	2358
Approach %	31.5	65.8	2.7	0.0		0.0	0.0	0.0	0.0		22.4	40.0	37.5	0.0		31.8	42.3	24.9	1.0		
Total %	15.2	31.8	1.3	0.0	48.3	0.0	0.0	0.0	0.0	0.0	8.0	14.2	13.4	0.0	35.6	5.1	6.8	4.0	0.2	16.2	
Exiting Leg Total	431					380					870					677					2358

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	44	108	2	0	154	0	0	0	0	0	21	44	34	0	99	18	19	11	1	49	302
7:45 AM	44	108	2	0	154	0	0	0	0	0	21	44	34	0	99	18	19	11	1	49	302
8:00 AM	57	87	5	0	149	0	0	0	0	0	41	60	48	0	149	13	26	17	0	56	354
8:15 AM	34	80	1	0	115	0	0	0	0	0	28	40	41	0	109	17	26	15	3	61	285
8:30 AM	46	97	5	0	148	0	0	0	0	0	30	40	39	0	109	16	17	13	0	46	303
Total Volume	181	372	13	0	566	0	0	0	0	0	120	184	162	0	466	64	88	56	4	212	1244
% Approach Total	32.0	65.7	2.3	0.0		0.0	0.0	0.0	0.0		25.8	39.5	34.8	0.0		30.2	41.5	26.4	1.9		
PHF	0.794	0.861	0.650	0.000	0.919	0.000	0.000	0.000	0.000	0.000	0.732	0.767	0.844	0.000	0.782	0.889	0.846	0.824	0.333	0.869	0.879
Entering Leg	181	372	13	0	566	0	0	0	0	0	120	184	162	0	466	64	88	56	4	212	1244
Exiting Leg						221					436					347					1244
Total	806					221					902					559					2488

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	3	2	0	0	5	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	10
7:15 AM	5	4	0	0	9	0	0	0	0	0	0	2	0	0	2	0	3	1	0	4	15
7:30 AM	1	4	0	0	5	0	0	0	0	0	1	5	1	0	7	0	0	0	0	0	12
7:45 AM	6	2	0	0	8	0	0	0	0	0	0	7	2	0	9	0	0	1	0	1	18
Total	15	12	0	0	27	0	0	0	0	0	1	16	5	0	22	1	3	2	0	6	55
8:00 AM	1	1	0	0	2	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	6
8:15 AM	0	5	0	0	5	0	0	0	0	0	0	2	0	0	2	2	0	1	0	3	10
8:30 AM	3	3	0	0	6	0	0	0	0	0	0	1	1	0	2	0	1	0	0	1	9
8:45 AM	0	2	0	0	2	0	0	0	0	0	1	2	0	0	3	1	0	0	0	1	6
Total	4	11	0	0	15	0	0	0	0	0	1	7	2	0	10	3	1	2	0	6	31
Grand Total	19	23	0	0	42	0	0	0	0	0	2	23	7	0	32	4	4	4	0	12	86
Approach %	45.2	54.8	0.0	0.0		0.0	0.0	0.0	0.0		6.3	71.9	21.9	0.0		33.3	33.3	33.3	0.0		
Total %	22.1	26.7	0.0	0.0	48.8	0.0	0.0	0.0	0.0	0.0	2.3	26.7	8.1	0.0	37.2	4.7	4.7	4.7	0.0	14.0	
Exiting Leg Total	27					6					27					26					86
Large Trucks	12	19	0	0	31	0	0	0	0	0	2	16	5	0	23	3	4	2	0	9	63
% Large Trucks	63.2	82.6	0.0	0.0	73.8	0.0	0.0	0.0	0.0	0.0	100.0	69.6	71.4	0.0	71.9	75.0	100.0	50.0	0.0	75.0	73.3
Exiting Leg Total	18					6					22					17					63
Buses	7	4	0	0	11	0	0	0	0	0	0	7	2	0	9	1	0	2	0	3	23
% Buses	36.8	17.4	0.0	0.0	26.2	0.0	0.0	0.0	0.0	0.0	0.0	30.4	28.6	0.0	28.1	25.0	0.0	50.0	0.0	25.0	26.7
Exiting Leg Total	9					0					5					9					23

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	3	2	0	0	5	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	10
7:15 AM	5	4	0	0	9	0	0	0	0	0	0	2	0	0	2	0	3	1	0	4	15
7:30 AM	1	4	0	0	5	0	0	0	0	0	1	5	1	0	7	0	0	0	0	0	12
7:45 AM	6	2	0	0	8	0	0	0	0	0	0	7	2	0	9	0	0	1	0	1	18
Total Volume	15	12	0	0	27	0	0	0	0	0	1	16	5	0	22	1	3	2	0	6	55
% Approach Total	55.6	44.4	0.0	0.0		0.0	0.0	0.0	0.0		4.5	72.7	22.7	0.0		16.7	50.0	33.3	0.0		
PHF	0.625	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.250	0.571	0.625	0.000	0.611	0.250	0.250	0.500	0.000	0.375	0.764
Large Trucks	10	9	0	0	19	0	0	0	0	0	1	11	3	0	15	0	3	0	0	3	37
Large Trucks %	66.7	75.0	0.0	0.0	70.4	0.0	0.0	0.0	0.0	0.0	100.0	68.8	60.0	0.0	68.2	0.0	100.0	0.0	0.0	50.0	67.3
Buses	5	3	0	0	8	0	0	0	0	0	0	5	2	0	7	1	0	2	0	3	18
Buses %	33.3	25.0	0.0	0.0	29.6	0.0	0.0	0.0	0.0	0.0	0.0	31.3	40.0	0.0	31.8	100.0	0.0	100.0	0.0	50.0	32.7
Trucks Enter Leg	10	9	0	0	19	0	0	0	0	0	1	11	3	0	15	0	3	0	0	3	37
Bus Enter Leg	5	3	0	0	8	0	0	0	0	0	0	5	2	0	7	1	0	2	0	3	18
Total Entering Leg	15	12	0	0	27	0	0	0	0	0	1	16	5	0	22	1	3	2	0	6	55
Trucks Exiting Leg	11					4					9					13					37
Buses Exiting Leg	7					0					4					7					18
Total Exiting Leg	18					4					13					20					55

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	2	1	0	0	3	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	5
7:15 AM	2	4	0	0	6	0	0	0	0	0	0	1	0	0	1	0	3	0	0	3	10
7:30 AM	1	3	0	0	4	0	0	0	0	0	1	4	1	0	6	0	0	0	0	0	10
7:45 AM	5	1	0	0	6	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	12
Total	10	9	0	0	19	0	0	0	0	0	1	11	3	0	15	0	3	0	0	3	37
8:00 AM	0	1	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	5
8:15 AM	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	2	0	1	0	3	8
8:30 AM	2	3	0	0	5	0	0	0	0	0	0	1	1	0	2	0	1	0	0	1	8
8:45 AM	0	2	0	0	2	0	0	0	0	0	1	1	0	0	2	1	0	0	0	1	5
Total	2	10	0	0	12	0	0	0	0	0	1	5	2	0	8	3	1	2	0	6	26
Grand Total	12	19	0	0	31	0	0	0	0	0	2	16	5	0	23	3	4	2	0	9	63
Approach %	38.7	61.3	0.0	0.0		0.0	0.0	0.0	0.0		8.7	69.6	21.7	0.0		33.3	44.4	22.2	0.0		
Total %	19.0	30.2	0.0	0.0	49.2	0.0	0.0	0.0	0.0	0.0	3.2	25.4	7.9	0.0	36.5	4.8	6.3	3.2	0.0	14.3	
Exiting Leg Total	18					6					22					17					63

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	2	1	0	0	3	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	5
7:15 AM	2	4	0	0	6	0	0	0	0	0	0	1	0	0	1	0	3	0	0	3	10
7:30 AM	1	3	0	0	4	0	0	0	0	0	1	4	1	0	6	0	0	0	0	0	10
7:45 AM	5	1	0	0	6	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	12
Total Volume	10	9	0	0	19	0	0	0	0	0	1	11	3	0	15	0	3	0	0	3	37
% Approach Total	52.6	47.4	0.0	0.0		0.0	0.0	0.0	0.0		6.7	73.3	20.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.500	0.563	0.000	0.000	0.792	0.000	0.000	0.000	0.000	0.000	0.250	0.550	0.750	0.000	0.625	0.000	0.250	0.000	0.000	0.250	0.771
Entering Leg	10	9	0	0	19	0	0	0	0	0	1	11	3	0	15	0	3	0	0	3	37
Exiting Leg	11					4					9					13					37
Total	30					4					24					16					74

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	1	1	0	0	2	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	5
7:15 AM	3	0	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	5
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:45 AM	1	1	0	0	2	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	6
Total	5	3	0	0	8	0	0	0	0	0	0	5	2	0	7	1	0	2	0	3	18
8:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
8:30 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	2	1	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
Grand Total	7	4	0	0	11	0	0	0	0	0	0	7	2	0	9	1	0	2	0	3	23
Approach %	63.6	36.4	0.0	0.0		0.0	0.0	0.0	0.0		0.0	77.8	22.2	0.0		33.3	0.0	66.7	0.0		
Total %	30.4	17.4	0.0	0.0	47.8	0.0	0.0	0.0	0.0	0.0	0.0	30.4	8.7	0.0	39.1	4.3	0.0	8.7	0.0	13.0	
Exiting Leg Total	9					0					5					9					23

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	1	1	0	0	2	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	5
7:15 AM	3	0	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	5
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:45 AM	1	1	0	0	2	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	6
Total Volume	5	3	0	0	8	0	0	0	0	0	0	5	2	0	7	1	0	2	0	3	18
% Approach Total	62.5	37.5	0.0	0.0		0.0	0.0	0.0	0.0		0.0	71.4	28.6	0.0		33.3	0.0	66.7	0.0		
PHF	0.417	0.750	0.000	0.000	0.667	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.500	0.000	0.583	0.250	0.000	0.500	0.000	0.750	0.750
Entering Leg	5	3	0	0	8	0	0	0	0	0	0	5	2	0	7	1	0	2	0	3	18
Exiting Leg	7					0					4					7					18
Total	15					0					11					10					36

PDI File #: 175971 D
 Location: N: Elm Street S: Elm Street
 Location: E: Willow Avenue W: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

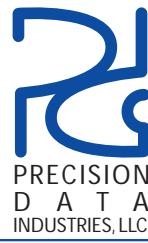
Bicycles (on Roadway and Crosswalks)

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	1	9	0	0	0	0	10	0	0	0	0	0	0	0	1	0	1	0	0	0	2	1	0	1	0	0	0	2	14
7:15 AM	2	11	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	14	
7:30 AM	2	12	0	0	0	0	14	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	2	2	18
7:45 AM	2	15	0	0	0	0	17	0	0	0	0	0	0	0	2	2	0	0	0	0	4	0	0	1	0	0	0	1	22
Total	7	47	0	0	0	0	54	0	0	0	0	0	0	0	3	3	2	0	0	0	8	1	0	2	0	0	3	6	68
8:00 AM	2	22	0	0	0	0	24	0	0	0	0	0	0	0	1	3	0	0	0	0	4	0	0	1	0	0	0	1	29
8:15 AM	4	15	0	0	0	0	19	0	0	0	0	0	0	0	1	3	0	0	0	0	4	0	0	1	0	0	0	1	24
8:30 AM	3	18	0	0	0	1	22	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	24
8:45 AM	5	15	0	0	0	0	20	0	0	0	0	0	0	0	4	3	1	0	0	0	8	1	0	1	0	0	0	2	30
Total	14	70	0	0	0	1	85	0	0	0	0	0	0	0	8	9	1	0	0	0	18	1	0	3	0	0	0	4	107
Grand Total	21	117	0	0	0	1	139	0	0	0	0	0	0	0	11	12	3	0	0	0	26	2	0	5	0	0	3	10	175
Approach %	15.1	84.2	0.0	0.0	0.0	0.7		0.0	0.0	0.0	0.0	0.0	0.0	42.3	46.2	11.5	0.0	0.0	0.0		20.0	0.0	50.0	0.0	0.0	30.0			
Total %	12.0	66.9	0.0	0.0	0.0	0.6	79.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	6.9	1.7	0.0	0.0	0.0	14.9	1.1	0.0	2.9	0.0	0.0	1.7	5.7		
Exiting Leg Total	18							11							119							27							175

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	2	22	0	0	0	0	24	0	0	0	0	0	0	0	1	3	0	0	0	0	4	0	0	1	0	0	0	1	29
8:15 AM	4	15	0	0	0	0	19	0	0	0	0	0	0	0	1	3	0	0	0	0	4	0	0	1	0	0	0	1	24
8:30 AM	3	18	0	0	0	1	22	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	24
8:45 AM	5	15	0	0	0	0	20	0	0	0	0	0	0	0	4	3	1	0	0	0	8	1	0	1	0	0	0	2	30
Total Volume	14	70	0	0	0	1	85	0	0	0	0	0	0	0	8	9	1	0	0	0	18	1	0	3	0	0	0	4	107
% Approach Total	16.5	82.4	0.0	0.0	0.0	1.2		0.0	0.0	0.0	0.0	0.0	0.0	44.4	50.0	5.6	0.0	0.0	0.0		25.0	0.0	75.0	0.0	0.0	0.0			
PHF	0.700	0.795	0.000	0.000	0.000	0.250	0.885	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.750	0.250	0.000	0.000	0.000	0.563	0.250	0.000	0.750	0.000	0.000	0.500	0.892		
Entering Leg	14	70	0	0	0	1	85	0	0	0	0	0	0	8	9	1	0	0	0	18	1	0	3	0	0	0	4	107	
Exiting Leg	13							8							71							15							107
Total	98							8							89							19							214

PDI File #: 175971 D
 Location: N: Elm Street S: Elm Street
 Location: E: Willow Avenue W: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



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 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	1	1	2	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	5	2	7	11
7:15 AM	0	0	0	0	2	4	6	0	0	0	0	3	7	10	0	0	0	0	2	1	3	0	0	0	0	0	8	8	27
7:30 AM	0	0	0	0	0	3	3	0	0	0	0	8	2	10	0	0	0	0	7	0	7	0	0	0	0	2	9	11	31
7:45 AM	0	0	0	0	0	2	2	0	0	0	0	16	1	17	0	0	0	0	7	1	8	0	0	0	0	2	3	5	32
Total	0	0	0	0	3	10	13	0	0	0	0	27	12	39	0	0	0	0	16	2	18	0	0	0	0	9	22	31	101
8:00 AM	0	0	0	0	1	1	2	0	0	0	0	11	2	13	0	0	0	0	13	2	15	0	0	0	0	1	7	8	38
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	3	2	5	0	0	0	0	9	2	11	0	0	0	0	6	11	17	34
8:30 AM	0	0	0	0	2	3	5	0	0	0	0	3	3	6	0	0	0	0	8	1	9	0	0	0	0	5	5	10	30
8:45 AM	0	0	0	0	1	2	3	0	0	0	0	5	1	6	0	0	0	0	6	0	6	0	0	0	0	2	9	11	26
Total	0	0	0	0	5	6	11	0	0	0	0	22	8	30	0	0	0	0	36	5	41	0	0	0	0	14	32	46	128
Grand Total	0	0	0	0	8	16	24	0	0	0	0	49	20	69	0	0	0	0	52	7	59	0	0	0	0	23	54	77	229
Approach %	0.0	0.0	0.0	0.0	33.3	66.7	0.0	0.0	0.0	0.0	71.0	29.0	0.0	0.0	0.0	0.0	88.1	11.9	0.0	0.0	0.0	0.0	29.9	70.1					
Total %	0.0	0.0	0.0	0.0	3.5	7.0	10.5	0.0	0.0	0.0	0.0	21.4	8.7	30.1	0.0	0.0	0.0	0.0	22.7	3.1	25.8	0.0	0.0	0.0	0.0	10.0	23.6	33.6	
Exiting Leg Total	24							69							59							77	229						

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:30 AM	0	0	0	0	0	3	3	0	0	0	0	8	2	10	0	0	0	0	7	0	7	0	0	0	0	2	9	11	31
7:45 AM	0	0	0	0	0	2	2	0	0	0	0	16	1	17	0	0	0	0	7	1	8	0	0	0	0	2	3	5	32
8:00 AM	0	0	0	0	1	1	2	0	0	0	0	11	2	13	0	0	0	0	13	2	15	0	0	0	0	1	7	8	38
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	3	2	5	0	0	0	0	9	2	11	0	0	0	0	6	11	17	34
Total Volume	0	0	0	0	2	6	8	0	0	0	0	38	7	45	0	0	0	0	36	5	41	0	0	0	0	11	30	41	135
% Approach Total	0.0	0.0	0.0	0.0	25.0	75.0	0.0	0.0	0.0	0.0	84.4	15.6	0.0	0.0	0.0	0.0	87.8	12.2	0.0	0.0	0.0	0.0	26.8	73.2					
PHF	0.000	0.000	0.000	0.000	0.500	0.500	0.667	0.000	0.000	0.000	0.000	0.594	0.875	0.662	0.000	0.000	0.000	0.000	0.692	0.625	0.683	0.000	0.000	0.000	0.000	0.458	0.682	0.603	0.888
Entering Leg	0	0	0	0	2	6	8	0	0	0	0	38	7	45	0	0	0	0	36	5	41	0	0	0	0	11	30	41	135
Exiting Leg	8							45							41							41	135						
Total	16							90							82							82	270						

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	16	61	2	0	79	0	0	0	0	0	63	60	34	0	157	15	33	23	1	72	308
4:15 PM	24	55	3	0	82	0	0	0	0	0	47	73	26	0	146	10	30	31	0	71	299
4:30 PM	25	73	6	0	104	0	0	0	0	0	59	53	24	0	136	10	28	24	2	64	304
4:45 PM	20	56	8	0	84	0	0	0	0	0	57	61	33	0	151	14	38	21	0	73	308
Total	85	245	19	0	349	0	0	0	0	0	226	247	117	0	590	49	129	99	3	280	1219
5:00 PM	23	54	1	0	78	0	0	0	0	0	48	80	32	0	160	17	31	21	0	69	307
5:15 PM	28	66	5	0	99	0	0	0	0	0	64	68	38	0	170	20	18	21	0	59	328
5:30 PM	30	39	9	0	78	0	0	0	0	0	48	71	34	0	153	21	40	29	1	91	322
5:45 PM	15	55	7	0	77	0	0	0	0	0	56	49	41	0	146	13	42	22	1	78	301
Total	96	214	22	0	332	0	0	0	0	0	216	268	145	0	629	71	131	93	2	297	1258
Grand Total	181	459	41	0	681	0	0	0	0	0	442	515	262	0	1219	120	260	192	5	577	2477
Approach %	26.6	67.4	6.0	0.0		0.0	0.0	0.0	0.0		36.3	42.2	21.5	0.0		20.8	45.1	33.3	0.9		
Total %	7.3	18.5	1.7	0.0	27.5	0.0	0.0	0.0	0.0	0.0	17.8	20.8	10.6	0.0	49.2	4.8	10.5	7.8	0.2	23.3	
Exiting Leg Total	707					743					579					448					2477
Cars	173	449	41	0	663	0	0	0	0	0	439	503	257	0	1199	118	258	185	5	566	2428
% Cars	95.6	97.8	100.0	0.0	97.4	0.0	0.0	0.0	0.0	0.0	99.3	97.7	98.1	0.0	98.4	98.3	99.2	96.4	100.0	98.1	98.0
Exiting Leg Total	688					738					567					435					2428
Heavy Vehicles	8	10	0	0	18	0	0	0	0	0	3	12	5	0	20	2	2	7	0	11	49
% Heavy Vehicles	4.4	2.2	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.7	2.3	1.9	0.0	1.6	1.7	0.8	3.6	0.0	1.9	2.0
Exiting Leg Total	19					5					12					13					49

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:45 PM	20	56	8	0	84	0	0	0	0	0	57	61	33	0	151	14	38	21	0	73	308
4:45 PM	23	54	1	0	78	0	0	0	0	0	48	80	32	0	160	17	31	21	0	69	307
5:00 PM	28	66	5	0	99	0	0	0	0	0	64	68	38	0	170	20	18	21	0	59	328
5:15 PM	30	39	9	0	78	0	0	0	0	0	48	71	34	0	153	21	40	29	1	91	322
Total Volume	101	215	23	0	339	0	0	0	0	0	217	280	137	0	634	72	127	92	1	292	1265
% Approach Total	29.8	63.4	6.8	0.0		0.0	0.0	0.0	0.0		34.2	44.2	21.6	0.0		24.7	43.5	31.5	0.3		
PHF	0.842	0.814	0.639	0.000	0.856	0.000	0.000	0.000	0.000	0.000	0.848	0.875	0.901	0.000	0.932	0.857	0.794	0.793	0.250	0.802	0.964
Cars	97	212	23	0	332	0	0	0	0	0	216	273	136	0	625	71	125	89	1	286	1243
Cars %	96.0	98.6	100.0	0.0	97.9	0.0	0.0	0.0	0.0	0.0	99.5	97.5	99.3	0.0	98.6	98.6	98.4	96.7	100.0	97.9	98.3
Heavy Vehicles	4	3	0	0	7	0	0	0	0	0	1	7	1	0	9	1	2	3	0	6	22
Heavy Vehicles %	4.0	1.4	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.5	2.5	0.7	0.0	1.4	1.4	1.6	3.3	0.0	2.1	1.7
Cars Enter Leg	97	212	23	0	332	0	0	0	0	0	216	273	136	0	625	71	125	89	1	286	1243
Heavy Enter Leg	4	3	0	0	7	0	0	0	0	0	1	7	1	0	9	1	2	3	0	6	22
Total Entering Leg	101	215	23	0	339	0	0	0	0	0	217	280	137	0	634	72	127	92	1	292	1265
Cars Exiting Leg	362					364					283					234					1243
Heavy Exiting Leg	10					3					4					5					22
Total Exiting Leg	372					367					287					239					1265

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	15	59	2	0	76	0	0	0	0	0	63	58	33	0	154	15	33	23	1	72	302
4:15 PM	22	53	3	0	78	0	0	0	0	0	47	72	25	0	144	10	30	29	0	69	291
4:30 PM	24	70	6	0	100	0	0	0	0	0	57	51	22	0	130	10	28	23	2	63	293
4:45 PM	20	55	8	0	83	0	0	0	0	0	56	61	33	0	150	14	38	19	0	71	304
Total	81	237	19	0	337	0	0	0	0	0	223	242	113	0	578	49	129	94	3	275	1190
5:00 PM	22	54	1	0	77	0	0	0	0	0	48	78	32	0	158	17	30	21	0	68	303
5:15 PM	26	65	5	0	96	0	0	0	0	0	64	66	38	0	168	19	18	20	0	57	321
5:30 PM	29	38	9	0	76	0	0	0	0	0	48	68	33	0	149	21	39	29	1	90	315
5:45 PM	15	55	7	0	77	0	0	0	0	0	56	49	41	0	146	12	42	21	1	76	299
Total	92	212	22	0	326	0	0	0	0	0	216	261	144	0	621	69	129	91	2	291	1238
Grand Total	173	449	41	0	663	0	0	0	0	0	439	503	257	0	1199	118	258	185	5	566	2428
Approach %	26.1	67.7	6.2	0.0		0.0	0.0	0.0	0.0		36.6	42.0	21.4	0.0		20.8	45.6	32.7	0.9		
Total %	7.1	18.5	1.7	0.0	27.3	0.0	0.0	0.0	0.0	0.0	18.1	20.7	10.6	0.0	49.4	4.9	10.6	7.6	0.2	23.3	
Exiting Leg Total	688					738					567					435					2428

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	15	59	2	0	76	0	0	0	0	0	63	58	33	0	154	15	33	23	1	72	302
4:15 PM	22	53	3	0	78	0	0	0	0	0	47	72	25	0	144	10	30	29	0	69	291
4:30 PM	24	70	6	0	100	0	0	0	0	0	57	51	22	0	130	10	28	23	2	63	293
4:45 PM	20	55	8	0	83	0	0	0	0	0	56	61	33	0	150	14	38	19	0	71	304
Total Volume	81	237	19	0	337	0	0	0	0	0	223	242	113	0	578	49	129	94	3	275	1190
% Approach Total	24.0	70.3	5.6	0.0		0.0	0.0	0.0	0.0		38.6	41.9	19.6	0.0		17.8	46.9	34.2	1.1		
PHF	0.844	0.846	0.594	0.000	0.843	0.000	0.000	0.000	0.000	0.000	0.885	0.840	0.856	0.000	0.938	0.817	0.849	0.810	0.375	0.955	0.979
Entering Leg	81	237	19	0	337	0	0	0	0	0	223	242	113	0	578	49	129	94	3	275	1190
Exiting Leg	336					371					286					197					1190
Total	673					371					864					472					2380

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	1	2	0	0	3	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	6
4:15 PM	2	2	0	0	4	0	0	0	0	0	0	1	1	0	2	0	0	2	0	2	8
4:30 PM	1	3	0	0	4	0	0	0	0	0	2	2	2	0	6	0	0	1	0	1	11
4:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	2	0	2	4
Total	4	8	0	0	12	0	0	0	0	0	3	5	4	0	12	0	0	5	0	5	29
5:00 PM	1	0	0	0	1	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	4
5:15 PM	2	1	0	0	3	0	0	0	0	0	0	2	0	0	2	1	0	1	0	2	7
5:30 PM	1	1	0	0	2	0	0	0	0	0	0	3	1	0	4	0	1	0	0	1	7
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	2
Total	4	2	0	0	6	0	0	0	0	0	0	7	1	0	8	2	2	2	0	6	20
Grand Total	8	10	0	0	18	0	0	0	0	0	3	12	5	0	20	2	2	7	0	11	49
Approach %	44.4	55.6	0.0	0.0		0.0	0.0	0.0	0.0		15.0	60.0	25.0	0.0		18.2	18.2	63.6	0.0		
Total %	16.3	20.4	0.0	0.0	36.7	0.0	0.0	0.0	0.0	0.0	6.1	24.5	10.2	0.0	40.8	4.1	4.1	14.3	0.0	22.4	
Exiting Leg Total	19					5					12					13					49
Large Trucks	1	3	0	0	4	0	0	0	0	0	3	4	4	0	11	1	2	2	0	5	20
% Large Trucks	12.5	30.0	0.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	100.0	33.3	80.0	0.0	55.0	50.0	100.0	28.6	0.0	45.5	40.8
Exiting Leg Total	6					5					4					5					20
Buses	7	7	0	0	14	0	0	0	0	0	0	8	1	0	9	1	0	5	0	6	29
% Buses	87.5	70.0	0.0	0.0	77.8	0.0	0.0	0.0	0.0	0.0	0.0	66.7	20.0	0.0	45.0	50.0	0.0	71.4	0.0	54.5	59.2
Exiting Leg Total	13					0					8					8					29

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	1	2	0	0	3	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	6
4:15 PM	2	2	0	0	4	0	0	0	0	0	0	1	1	0	2	0	0	2	0	2	8
4:30 PM	1	3	0	0	4	0	0	0	0	0	2	2	2	0	6	0	0	1	0	1	11
4:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	2	0	2	4
Total Volume	4	8	0	0	12	0	0	0	0	0	3	5	4	0	12	0	0	5	0	5	29
% Approach Total	33.3	66.7	0.0	0.0		0.0	0.0	0.0	0.0		25.0	41.7	33.3	0.0		0.0	0.0	100.0	0.0		
PHF	0.500	0.667	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.375	0.625	0.500	0.000	0.500	0.000	0.000	0.625	0.000	0.625	0.659
Large Trucks	1	2	0	0	3	0	0	0	0	0	3	2	3	0	8	0	0	2	0	2	13
Large Trucks %	25.0	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	100.0	40.0	75.0	0.0	66.7	0.0	0.0	40.0	0.0	40.0	44.8
Buses	3	6	0	0	9	0	0	0	0	0	0	3	1	0	4	0	0	3	0	3	16
Buses %	75.0	75.0	0.0	0.0	75.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	25.0	0.0	33.3	0.0	0.0	60.0	0.0	60.0	55.2
Trucks Enter Leg	1	2	0	0	3	0	0	0	0	0	3	2	3	0	8	0	0	2	0	2	13
Bus Enter Leg	3	6	0	0	9	0	0	0	0	0	0	3	1	0	4	0	0	3	0	3	16
Total Entering Leg	4	8	0	0	12	0	0	0	0	0	3	5	4	0	12	0	0	5	0	5	29
Trucks Exiting Leg	4					3					2					4					13
Buses Exiting Leg	6					0					6					4					16
Total Exiting Leg	10					3					8					8					29

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Large Trucks

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	3
4:15 PM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	1	2	0	5	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	2
Total	1	2	0	0	3	0	0	0	0	0	3	2	3	0	8	0	0	2	0	2	0	0	0	0	2	13
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	1	0	0	1	0	0	0	0	0	4
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	0	0	0	0	2	1	0	3	1	2	0	0	3	0	0	0	0	3	7
Grand Total	1	3	0	0	4	0	0	0	0	0	3	4	4	0	11	1	2	2	0	5	0	0	0	0	5	20
Approach %	25.0	75.0	0.0	0.0		0.0	0.0	0.0	0.0		27.3	36.4	36.4	0.0		20.0	40.0	40.0	0.0		0.0	0.0	0.0	0.0		
Total %	5.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	15.0	20.0	20.0	0.0	55.0	5.0	10.0	10.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	6					5					4					5					20					

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	3
4:15 PM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	1	2	0	5	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	2
Total Volume	1	2	0	0	3	0	0	0	0	0	3	2	3	0	8	0	0	2	0	2	0	0	0	0	2	13
% Approach Total	33.3	66.7	0.0	0.0		0.0	0.0	0.0	0.0		37.5	25.0	37.5	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.500	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.375	0.500	0.375	0.000	0.400	0.000	0.000	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.650	
Entering Leg	1	2	0	0	3	0	0	0	0	0	3	2	3	0	8	0	0	2	0	2	0	0	0	0	2	13
Exiting Leg	4					3					2					4					13					
Total	7					3					10					6					26					

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
4:15 PM	1	1	0	0	2	0	0	0	0	0	0	1	1	0	2	0	0	1	0	1	5
4:30 PM	1	3	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	6
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
Total	3	6	0	0	9	0	0	0	0	0	0	3	1	0	4	0	0	3	0	3	16
5:00 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:15 PM	2	1	0	0	3	0	0	0	0	0	0	2	0	0	2	1	0	1	0	2	7
5:30 PM	1	0	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	4	1	0	0	5	0	0	0	0	0	0	5	0	0	5	1	0	2	0	3	13
Grand Total	7	7	0	0	14	0	0	0	0	0	0	8	1	0	9	1	0	5	0	6	29
Approach %	50.0	50.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	88.9	11.1	0.0		16.7	0.0	83.3	0.0		
Total %	24.1	24.1	0.0	0.0	48.3	0.0	0.0	0.0	0.0	0.0	0.0	27.6	3.4	0.0	31.0	3.4	0.0	17.2	0.0	20.7	
Exiting Leg Total	13					0					8					8					29

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	1	3	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	6
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
5:00 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:15 PM	2	1	0	0	3	0	0	0	0	0	0	2	0	0	2	1	0	1	0	2	7
Total Volume	4	5	0	0	9	0	0	0	0	0	0	4	0	0	4	1	0	3	0	4	17
% Approach Total	44.4	55.6	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		25.0	0.0	75.0	0.0		
PHF	0.500	0.417	0.000	0.000	0.563	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500	0.250	0.000	0.750	0.000	0.500	0.607
Entering Leg	4	5	0	0	9	0	0	0	0	0	0	4	0	0	4	1	0	3	0	4	17
Exiting Leg	7					0					6					4					17
Total	16					0					10					8					34

PDI File #: 175971 D
 Location: N: Elm Street S: Elm Street
 Location: E: Willow Avenue W: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	3	0	0	0	0	5	0	1	0	0	0	0	1	7
4:15 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	4	2	0	0	0	0	6	0	1	0	0	0	1	2	12
4:30 PM	2	4	0	0	0	0	6	0	0	0	0	0	0	0	2	1	0	0	1	0	4	0	0	0	0	0	0	0	10
4:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	5	2	1	0	0	0	8	0	2	0	0	0	0	2	14
Total	2	13	0	0	0	0	15	0	0	0	0	0	0	0	13	8	1	0	1	0	23	0	4	0	0	0	1	5	43
5:00 PM	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	8	1	0	0	0	9	1	1	0	0	0	0	2	13
5:15 PM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	4	7	2	0	0	0	13	0	2	0	0	0	0	2	21
5:30 PM	2	4	0	0	0	0	6	1	0	0	0	0	0	1	5	5	0	0	0	0	10	0	2	0	0	0	0	2	19
5:45 PM	1	5	0	0	0	0	6	1	0	0	0	0	0	1	6	11	0	0	0	0	17	0	1	0	0	0	0	1	25
Total	4	16	0	0	0	0	20	2	0	0	0	0	0	2	15	31	3	0	0	0	49	1	6	0	0	0	0	7	78
Grand Total	6	29	0	0	0	0	35	2	0	0	0	0	0	2	28	39	4	0	1	0	72	1	10	0	0	0	1	12	121
Approach %	17.1	82.9	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0	0.0		38.9	54.2	5.6	0.0	1.4	0.0		8.3	83.3	0.0	0.0	0.0	8.3		
Total %	5.0	24.0	0.0	0.0	0.0	0.0	28.9	1.7	0.0	0.0	0.0	0.0	0.0	1.7	23.1	32.2	3.3	0.0	0.8	0.0	59.5	0.8	8.3	0.0	0.0	0.0	0.8	9.9	
Exiting Leg Total	41							38							31							11							121

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	3	0	0	0	0	5	0	1	0	0	0	0	1	7
4:15 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	4	2	0	0	0	0	6	0	1	0	0	0	1	2	12
4:30 PM	2	4	0	0	0	0	6	0	0	0	0	0	0	0	2	1	0	0	1	0	4	0	0	0	0	0	0	0	10
4:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	5	2	1	0	0	0	8	0	2	0	0	0	0	2	14
Total Volume	2	13	0	0	0	0	15	0	0	0	0	0	0	0	13	8	1	0	1	0	23	0	4	0	0	0	1	5	43
% Approach Total	13.3	86.7	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		56.5	34.8	4.3	0.0	4.3	0.0		0.0	80.0	0.0	0.0	0.0	20.0		
PHF	0.250	0.813	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.650	0.667	0.250	0.000	0.250	0.000	0.719	0.000	0.500	0.000	0.000	0.000	0.250	0.625	0.768
Entering Leg	2	13	0	0	0	0	15	0	0	0	0	0	0	0	13	8	1	0	1	0	23	0	4	0	0	0	1	5	43
Exiting Leg	8							17							14							4							43
Total	23							17							37							9							86

PDI File #: 175971 D
 Location: N: Elm Street S: Elm Street
 Location: E: Willow Avenue W: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street								Willow Avenue								Elm Street								Beech Street								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	4	8		0	0	0	0	0	0	1	1	0	0	0	0	1	9	10	19	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	11	5	16		0	0	0	0	0	4	0	4	0	0	0	0	4	4	8	28	
4:30 PM	0	0	0	0	3	0	3	0	0	0	0	0	5	5	10		0	0	0	0	0	5	4	9	0	0	0	0	6	3	9	31	
4:45 PM	0	0	0	0	7	0	7	0	0	0	0	0	8	5	13		0	0	0	0	0	2	0	2	0	0	0	0	7	5	12	34	
Total	0	0	0	0	10	0	10	0	0	0	0	0	28	19	47		0	0	0	0	0	11	5	16	0	0	0	0	18	21	39	112	
5:00 PM	0	0	0	0	2	0	2	0	0	0	0	0	3	10	13		0	0	0	0	0	0	3	3	0	0	0	0	5	10	15	33	
5:15 PM	0	0	0	0	3	3	6	0	0	0	0	0	4	13	17		0	0	0	0	0	1	4	5	0	0	0	0	5	10	15	43	
5:30 PM	0	0	0	0	3	3	6	0	0	0	0	0	7	8	15		0	0	0	0	0	1	6	7	0	0	0	0	6	7	13	41	
5:45 PM	0	0	0	0	5	0	5	0	0	0	0	0	6	13	19		0	0	0	0	0	3	7	10	0	0	0	0	9	11	20	54	
Total	0	0	0	0	13	6	19	0	0	0	0	0	20	44	64		0	0	0	0	0	5	20	25	0	0	0	0	25	38	63	171	
Grand Total	0	0	0	0	23	6	29	0	0	0	0	0	48	63	111		0	0	0	0	0	16	25	41	0	0	0	0	43	59	102	283	
Approach %	0.0	0.0	0.0	0.0	79.3	20.7		0.0	0.0	0.0	0.0	43.2	56.8		0.0	0.0	0.0	0.0	0.0	39.0	61.0		0.0	0.0	0.0	0.0	42.2	57.8					
Total %	0.0	0.0	0.0	0.0	8.1	2.1	10.2	0.0	0.0	0.0	0.0	17.0	22.3	39.2		0.0	0.0	0.0	0.0	0.0	5.7	8.8	14.5	0.0	0.0	0.0	0.0	15.2	20.8	36.0			
Exiting Leg Total	29							111							41							102							283				

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Elm Street								Willow Avenue								Elm Street								Beech Street								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
5:00 PM	0	0	0	0	2	0	2	0	0	0	0	0	3	10	13		0	0	0	0	0	0	3	3	0	0	0	0	5	10	15	33	
5:15 PM	0	0	0	0	3	3	6	0	0	0	0	0	4	13	17		0	0	0	0	0	1	4	5	0	0	0	0	5	10	15	43	
5:30 PM	0	0	0	0	3	3	6	0	0	0	0	0	7	8	15		0	0	0	0	0	1	6	7	0	0	0	0	6	7	13	41	
5:45 PM	0	0	0	0	5	0	5	0	0	0	0	0	6	13	19		0	0	0	0	0	3	7	10	0	0	0	0	9	11	20	54	
Total Volume	0	0	0	0	13	6	19	0	0	0	0	0	20	44	64		0	0	0	0	0	5	20	25	0	0	0	0	25	38	63	171	
% Approach Total	0.0	0.0	0.0	0.0	68.4	31.6		0.0	0.0	0.0	0.0	31.3	68.8		0.0	0.0	0.0	0.0	0.0	20.0	80.0		0.0	0.0	0.0	0.0	39.7	60.3					
PHF	0.000	0.000	0.000	0.000	0.650	0.500	0.792	0.000	0.000	0.000	0.000	0.714	0.846	0.842		0.000	0.000	0.000	0.000	0.417	0.714	0.625	0.000	0.000	0.000	0.000	0.694	0.864	0.788	0.792			
Entering Leg	0	0	0	0	13	6	19	0	0	0	0	20	44	64		0	0	0	0	0	5	20	25	0	0	0	0	25	38	63	171		
Exiting Leg	19							64							25							63							171				
Total	38							128							50							126							342				

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	26	73	7	0	106	0	0	0	0	0	36	61	30	0	127	16	21	16	1	54	287
11:15 AM	28	84	2	0	114	0	0	0	0	0	47	52	27	0	126	20	19	23	1	63	303
11:30 AM	27	76	9	0	112	0	0	0	0	0	48	61	30	0	139	17	20	16	0	53	304
11:45 AM	19	82	7	0	108	0	0	0	0	0	51	48	38	0	137	28	25	8	0	61	306
Total	100	315	25	0	440	0	0	0	0	0	182	222	125	0	529	81	85	63	2	231	1200
12:00 PM	25	80	8	0	113	0	0	0	0	0	38	37	44	0	119	17	22	11	0	50	282
12:15 PM	32	77	8	0	117	0	0	0	0	0	48	58	32	0	138	22	23	6	1	52	307
12:30 PM	22	79	6	0	107	0	0	0	0	0	48	50	28	0	126	14	25	12	0	51	284
12:45 PM	27	54	11	0	92	0	0	0	0	0	60	61	37	0	158	24	22	24	1	71	321
Total	106	290	33	0	429	0	0	0	0	0	194	206	141	0	541	77	92	53	2	224	1194
1:00 PM	25	63	5	0	93	0	0	0	0	0	41	70	32	0	143	15	27	15	0	57	293
1:15 PM	33	83	5	0	121	0	0	0	0	0	34	45	31	0	110	21	26	16	0	63	294
1:30 PM	19	66	7	0	92	0	0	0	0	0	50	53	30	0	133	23	22	13	0	58	283
1:45 PM	17	73	4	0	94	0	0	0	0	0	51	48	37	1	137	17	30	22	0	69	300
Total	94	285	21	0	400	0	0	0	0	0	176	216	130	1	523	76	105	66	0	247	1170
Grand Total	300	890	79	0	1269	0	0	0	0	0	552	644	396	1	1593	234	282	182	4	702	3564
Approach %	23.6	70.1	6.2	0.0		0.0	0.0	0.0	0.0		34.7	40.4	24.9	0.1		33.3	40.2	25.9	0.6		
Total %	8.4	25.0	2.2	0.0	35.6	0.0	0.0	0.0	0.0	0.0	15.5	18.1	11.1	0.0	44.7	6.6	7.9	5.1	0.1	19.7	
Exiting Leg Total	826					913					1125					700					3564
Cars	292	873	78	0	1243	0	0	0	0	0	545	629	389	1	1564	233	276	175	3	687	3494
% Cars	97.3	98.1	98.7	0.0	98.0	0.0	0.0	0.0	0.0	0.0	98.7	97.7	98.2	100.0	98.2	99.6	97.9	96.2	75.0	97.9	98.0
Exiting Leg Total	804					899					1107					684					3494
Heavy Vehicles	8	17	1	0	26	0	0	0	0	0	7	15	7	0	29	1	6	7	1	15	70
% Heavy Vehicles	2.7	1.9	1.3	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.3	2.3	1.8	0.0	1.8	0.4	2.1	3.8	25.0	2.1	2.0
Exiting Leg Total	22					14					18					16					70

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	32	77	8	0	117	0	0	0	0	0	48	58	32	0	138	22	23	6	1	52	307
12:30 PM	22	79	6	0	107	0	0	0	0	0	48	50	28	0	126	14	25	12	0	51	284
12:45 PM	27	54	11	0	92	0	0	0	0	0	60	61	37	0	158	24	22	24	1	71	321
1:00 PM	25	63	5	0	93	0	0	0	0	0	41	70	32	0	143	15	27	15	0	57	293
Total Volume	106	273	30	0	409	0	0	0	0	0	197	239	129	0	565	75	97	57	2	231	1205
% Approach Total	25.9	66.7	7.3	0.0		0.0	0.0	0.0	0.0		34.9	42.3	22.8	0.0		32.5	42.0	24.7	0.9		
PHF	0.828	0.864	0.682	0.000	0.874	0.000	0.000	0.000	0.000	0.000	0.821	0.854	0.872	0.000	0.894	0.781	0.898	0.594	0.500	0.813	0.938
Cars	103	267	30	0	400	0	0	0	0	0	195	234	126	0	555	74	95	55	1	225	1180
Cars %	97.2	97.8	100.0	0.0	97.8	0.0	0.0	0.0	0.0	0.0	99.0	97.9	97.7	0.0	98.2	98.7	97.9	96.5	50.0	97.4	97.9
Heavy Vehicles	3	6	0	0	9	0	0	0	0	0	2	5	3	0	10	1	2	2	1	6	25
Heavy Vehicles %	2.8	2.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1.0	2.1	2.3	0.0	1.8	1.3	2.1	3.5	50.0	2.6	2.1
Cars Enter Leg	103	267	30	0	400	0	0	0	0	0	195	234	126	0	555	74	95	55	1	225	1180
Heavy Enter Leg	3	6	0	0	9	0	0	0	0	0	2	5	3	0	10	1	2	2	1	6	25
Total Entering Leg	106	273	30	0	409	0	0	0	0	0	197	239	129	0	565	75	97	57	2	231	1205
Cars Exiting Leg	289					320					341					230					1180
Heavy Exiting Leg	7					4					7					7					25
Total Exiting Leg	296					324					348					237					1205

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	26	72	7	0	105	0	0	0	0	0	36	59	30	0	125	16	19	16	1	52	282
11:15 AM	28	81	2	0	111	0	0	0	0	0	44	50	26	0	120	20	19	22	1	62	293
11:30 AM	25	76	9	0	110	0	0	0	0	0	47	61	30	0	138	17	20	16	0	53	301
11:45 AM	19	80	7	0	106	0	0	0	0	0	51	46	37	0	134	28	25	8	0	61	301
Total	98	309	25	0	432	0	0	0	0	0	178	216	123	0	517	81	83	62	2	228	1177
12:00 PM	25	79	7	0	111	0	0	0	0	0	37	35	44	0	116	17	22	10	0	49	276
12:15 PM	32	73	8	0	113	0	0	0	0	0	48	56	32	0	136	21	23	6	0	50	299
12:30 PM	21	78	6	0	105	0	0	0	0	0	47	50	28	0	125	14	25	11	0	50	280
12:45 PM	27	53	11	0	91	0	0	0	0	0	59	58	35	0	152	24	22	24	1	71	314
Total	105	283	32	0	420	0	0	0	0	0	191	199	139	0	529	76	92	51	1	220	1169
1:00 PM	23	63	5	0	91	0	0	0	0	0	41	70	31	0	142	15	25	14	0	54	287
1:15 PM	30	81	5	0	116	0	0	0	0	0	34	44	30	0	108	21	26	14	0	61	285
1:30 PM	19	66	7	0	92	0	0	0	0	0	50	52	30	0	132	23	20	13	0	56	280
1:45 PM	17	71	4	0	92	0	0	0	0	0	51	48	36	1	136	17	30	21	0	68	296
Total	89	281	21	0	391	0	0	0	0	0	176	214	127	1	518	76	101	62	0	239	1148
Grand Total	292	873	78	0	1243	0	0	0	0	0	545	629	389	1	1564	233	276	175	3	687	3494
Approach %	23.5	70.2	6.3	0.0		0.0	0.0	0.0	0.0		34.8	40.2	24.9	0.1		33.9	40.2	25.5	0.4		
Total %	8.4	25.0	2.2	0.0	35.6	0.0	0.0	0.0	0.0	0.0	15.6	18.0	11.1	0.0	44.8	6.7	7.9	5.0	0.1	19.7	
Exiting Leg Total	804					899					1107					684					3494

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	32	73	8	0	113	0	0	0	0	0	48	56	32	0	136	21	23	6	0	50	299
12:30 PM	21	78	6	0	105	0	0	0	0	0	47	50	28	0	125	14	25	11	0	50	280
12:45 PM	27	53	11	0	91	0	0	0	0	0	59	58	35	0	152	24	22	24	1	71	314
1:00 PM	23	63	5	0	91	0	0	0	0	0	41	70	31	0	142	15	25	14	0	54	287
Total Volume	103	267	30	0	400	0	0	0	0	0	195	234	126	0	555	74	95	55	1	225	1180
% Approach Total	25.8	66.8	7.5	0.0		0.0	0.0	0.0	0.0		35.1	42.2	22.7	0.0		32.9	42.2	24.4	0.4		
PHF	0.805	0.856	0.682	0.000	0.885	0.000	0.000	0.000	0.000	0.000	0.826	0.836	0.900	0.000	0.913	0.771	0.950	0.573	0.250	0.792	0.939
Entering Leg	103	267	30	0	400	0	0	0	0	0	195	234	126	0	555	74	95	55	1	225	1180
Exiting Leg						320					341					230					1180
Total	689					320					896					455					2360

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	2	0	0	2	5
11:15 AM	0	3	0	0	3	0	0	0	0	0	3	2	1	0	6	0	0	1	0	1	10
11:30 AM	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3
11:45 AM	0	2	0	0	2	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	5
Total	2	6	0	0	8	0	0	0	0	0	4	6	2	0	12	0	2	1	0	3	23
12:00 PM	0	1	1	0	2	0	0	0	0	0	1	2	0	0	3	0	0	1	0	1	6
12:15 PM	0	4	0	0	4	0	0	0	0	0	0	2	0	0	2	1	0	0	1	2	8
12:30 PM	1	1	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	4
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	3	2	0	6	0	0	0	0	0	7
Total	1	7	1	0	9	0	0	0	0	0	3	7	2	0	12	1	0	2	1	4	25
1:00 PM	2	0	0	0	2	0	0	0	0	0	0	0	1	0	1	0	2	1	0	3	6
1:15 PM	3	2	0	0	5	0	0	0	0	0	0	1	1	0	2	0	0	2	0	2	9
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	2	3
1:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	4
Total	5	4	0	0	9	0	0	0	0	0	0	2	3	0	5	0	4	4	0	8	22
Grand Total	8	17	1	0	26	0	0	0	0	0	7	15	7	0	29	1	6	7	1	15	70
Approach %	30.8	65.4	3.8	0.0		0.0	0.0	0.0	0.0		24.1	51.7	24.1	0.0		6.7	40.0	46.7	6.7		
Total %	11.4	24.3	1.4	0.0	37.1	0.0	0.0	0.0	0.0	0.0	10.0	21.4	10.0	0.0	41.4	1.4	8.6	10.0	1.4	21.4	
Exiting Leg Total	22					14					18					16					70
Large Trucks	5	12	1	0	18	0	0	0	0	0	6	8	6	0	20	1	6	4	0	11	49
% Large Trucks	62.5	70.6	100.0	0.0	69.2	0.0	0.0	0.0	0.0	0.0	85.7	53.3	85.7	0.0	69.0	100.0	100.0	57.1	0.0	73.3	70.0
Exiting Leg Total	12					13					13					11					49
Buses	3	5	0	0	8	0	0	0	0	0	1	7	1	0	9	0	0	3	1	4	21
% Buses	37.5	29.4	0.0	0.0	30.8	0.0	0.0	0.0	0.0	0.0	14.3	46.7	14.3	0.0	31.0	0.0	0.0	42.9	100.0	26.7	30.0
Exiting Leg Total	10					1					5					5					21

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	1	1	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	4
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	3	2	0	6	0	0	0	0	0	7
1:00 PM	2	0	0	0	2	0	0	0	0	0	0	0	1	0	1	0	2	1	0	3	6
1:15 PM	3	2	0	0	5	0	0	0	0	0	0	1	1	0	2	0	0	2	0	2	9
Total Volume	6	4	0	0	10	0	0	0	0	0	2	4	4	0	10	0	2	4	0	6	26
% Approach Total	60.0	40.0	0.0	0.0		0.0	0.0	0.0	0.0		20.0	40.0	40.0	0.0		0.0	33.3	66.7	0.0		
PHF	0.500	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.500	0.333	0.500	0.000	0.417	0.000	0.250	0.500	0.000	0.500	0.722
Large Trucks	4	2	0	0	6	0	0	0	0	0	2	2	3	0	7	0	2	3	0	5	18
Large Trucks %	66.7	50.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	100.0	50.0	75.0	0.0	70.0	0.0	100.0	75.0	0.0	83.3	69.2
Buses	2	2	0	0	4	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	8
Buses %	33.3	50.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	25.0	0.0	30.0	0.0	0.0	25.0	0.0	16.7	30.8
Trucks Enter Leg	4	2	0	0	6	0	0	0	0	0	2	2	3	0	7	0	2	3	0	5	18
Bus Enter Leg	2	2	0	0	4	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	8
Total Entering Leg	6	4	0	0	10	0	0	0	0	0	2	4	4	0	10	0	2	4	0	6	26
Trucks Exiting Leg	5					4					2					7					18
Buses Exiting Leg	3					0					2					3					8
Total Exiting Leg	8					4					4					10					26

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
11:15 AM	0	2	0	0	2	0	0	0	0	0	2	1	1	0	4	0	0	0	0	0	6
11:30 AM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
11:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	3
Total	1	4	0	0	5	0	0	0	0	0	3	2	2	0	7	0	2	0	0	2	14
12:00 PM	0	1	1	0	2	0	0	0	0	0	1	2	0	0	3	0	0	1	0	1	6
12:15 PM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	5
12:30 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	3
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	2	1	0	4	0	0	0	0	0	4
Total	0	5	1	0	6	0	0	0	0	0	3	5	1	0	9	1	0	2	0	3	18
1:00 PM	2	0	0	0	2	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	5
1:15 PM	2	1	0	0	3	0	0	0	0	0	0	0	1	0	1	0	0	2	0	2	6
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	2	3
1:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3
Total	4	3	0	0	7	0	0	0	0	0	0	1	3	0	4	0	4	2	0	6	17
Grand Total	5	12	1	0	18	0	0	0	0	0	6	8	6	0	20	1	6	4	0	11	49
Approach %	27.8	66.7	5.6	0.0		0.0	0.0	0.0	0.0		30.0	40.0	30.0	0.0		9.1	54.5	36.4	0.0		
Total %	10.2	24.5	2.0	0.0	36.7	0.0	0.0	0.0	0.0	0.0	12.2	16.3	12.2	0.0	40.8	2.0	12.2	8.2	0.0	22.4	
Exiting Leg Total	12					13					13					11					49

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:00 PM	Elm Street					Willow Avenue					Elm Street					Beech Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:00 PM	0	1	1	0	2	0	0	0	0	0	1	2	0	0	3	0	0	1	0	1	6
12:15 PM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	5
12:30 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	3
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	2	1	0	4	0	0	0	0	0	4
Total Volume	0	5	1	0	6	0	0	0	0	0	3	5	1	0	9	1	0	2	0	3	18
% Approach Total	0.0	83.3	16.7	0.0		0.0	0.0	0.0	0.0		33.3	55.6	11.1	0.0		33.3	0.0	66.7	0.0		
PHF	0.000	0.417	0.250	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.750	0.625	0.250	0.000	0.563	0.250	0.000	0.500	0.000	0.750	0.750
Entering Leg	0	5	1	0	6	0	0	0	0	0	3	5	1	0	9	1	0	2	0	3	18
Exiting Leg	7					4					6					1					18
Total	13					4					15					4					36

PDI File #: **175971 D**
 Location: **N: Elm Street S: Elm Street**
 Location: **E: Willow Avenue W: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
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 Email: datarequests@pdillc.com

Buses

	Elm Street					Willow Avenue					Elm Street					Beech Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	0	0	1	0	1	0	0	0	0	0	4
11:30 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Total	1	2	0	0	3	0	0	0	0	0	1	4	0	0	5	0	0	1	0	1	0	0	0	0	1	9
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	3
12:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	3
Total	1	2	0	0	3	0	0	0	0	0	0	2	1	0	3	0	0	0	1	1	0	0	0	0	1	7
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
1:15 PM	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	0	0	0	0	2	5
Grand Total	3	5	0	0	8	0	0	0	0	0	1	7	1	0	9	0	0	3	1	4	0	0	0	0	4	21
Approach %	37.5	62.5	0.0	0.0		0.0	0.0	0.0	0.0		11.1	77.8	11.1	0.0		0.0	0.0	75.0	25.0							
Total %	14.3	23.8	0.0	0.0	38.1	0.0	0.0	0.0	0.0	0.0	4.8	33.3	4.8	0.0	42.9	0.0	0.0	14.3	4.8	19.0						
Exiting Leg Total	10					1					5					5					21					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Elm Street					Willow Avenue					Elm Street					Beech Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	0	0	1	0	1	0	0	0	0	0	4
11:30 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Total Volume	1	2	0	0	3	0	0	0	0	0	1	4	0	0	5	0	0	1	0	1	0	0	0	0	1	9
% Approach Total	33.3	66.7	0.0	0.0		0.0	0.0	0.0	0.0		20.0	80.0	0.0	0.0		0.0	0.0	100.0	0.0							
PHF	0.250	0.500	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.250	0.500	0.000	0.000	0.625	0.000	0.000	0.250	0.000	0.250						0.563
Entering Leg	1	2	0	0	3	0	0	0	0	0	1	4	0	0	5	0	0	1	0	1						9
Exiting Leg	5					1					2					1					9					
Total	8					1					7					2					18					

PDI File #: 175971 D
 Location: N: Elm Street S: Elm Street
 Location: E: Willow Avenue W: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	1	5	0	0	0	0	6	0	0	0	0	0	1	1	13
11:15 AM	0	2	1	0	0	0	3	0	0	0	0	0	2	2	4	3	1	0	0	0	8	0	0	0	0	0	0	0	13
11:30 AM	0	7	0	0	0	0	7	0	0	0	0	0	0	0	2	2	0	0	0	0	4	0	0	0	0	0	3	3	14
11:45 AM	0	1	0	0	0	0	1	0	0	0	0	0	1	1	4	4	0	0	0	0	8	1	2	0	0	0	1	4	14
Total	0	16	1	0	0	0	17	0	0	0	0	0	3	3	11	14	1	0	0	0	26	1	2	0	0	0	5	8	54
12:00 PM	1	13	0	0	1	0	15	0	0	0	0	1	0	1	1	1	2	0	0	0	4	2	0	0	0	0	0	2	22
12:15 PM	3	10	0	0	0	0	13	0	0	0	0	0	0	0	0	3	1	0	0	0	4	1	0	0	0	0	0	1	18
12:30 PM	4	13	0	0	0	0	17	0	0	0	0	0	0	0	2	2	0	0	1	0	5	0	0	1	0	0	1	2	24
12:45 PM	4	5	0	0	0	0	9	0	0	0	0	0	1	1	4	3	0	0	0	0	7	0	0	0	0	0	0	0	17
Total	12	41	0	0	1	0	54	0	0	0	0	1	1	2	7	9	3	0	1	0	20	3	0	1	0	0	1	5	81
1:00 PM	2	6	0	0	0	0	8	0	0	1	0	1	0	2	1	3	0	0	0	0	4	0	0	0	0	0	0	0	14
1:15 PM	0	6	0	0	0	0	6	0	0	1	0	0	1	2	3	6	0	0	0	1	10	0	1	2	0	0	0	3	21
1:30 PM	1	6	0	0	0	0	7	0	0	0	0	0	0	0	3	2	1	0	0	0	6	0	0	0	0	0	0	0	13
1:45 PM	5	10	0	0	0	0	15	0	0	1	0	0	0	1	3	7	0	0	0	0	10	0	1	0	0	0	0	1	27
Total	8	28	0	0	0	0	36	0	0	3	0	1	1	5	10	18	1	0	0	1	30	0	2	2	0	0	0	4	75
Grand Total	20	85	1	0	1	0	107	0	0	3	0	2	5	10	28	41	5	0	1	1	76	4	4	3	0	0	6	17	210
Approach %	18.7	79.4	0.9	0.0	0.9	0.0		0.0	0.0	30.0	0.0	20.0	50.0		36.8	53.9	6.6	0.0	1.3	1.3		23.5	23.5	17.6	0.0	0.0	35.3		
Total %	9.5	40.5	0.5	0.0	0.5	0.0	51.0	0.0	0.0	1.4	0.0	1.0	2.4	4.8	13.3	19.5	2.4	0.0	0.5	0.5	36.2	1.9	1.9	1.4	0.0	0.0	2.9	8.1	
Exiting Leg Total	45							40							94							31							210

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
12:00 PM	1	13	0	0	1	0	15	0	0	0	0	1	0	1	1	1	2	0	0	0	4	2	0	0	0	0	0	2	22
12:15 PM	3	10	0	0	0	0	13	0	0	0	0	0	0	0	0	3	1	0	0	0	4	1	0	0	0	0	0	1	18
12:30 PM	4	13	0	0	0	0	17	0	0	0	0	0	0	0	2	2	0	0	1	0	5	0	0	1	0	0	1	2	24
12:45 PM	4	5	0	0	0	0	9	0	0	0	0	0	1	1	4	3	0	0	0	0	7	0	0	0	0	0	0	0	17
Total Volume	12	41	0	0	1	0	54	0	0	0	0	1	1	2	7	9	3	0	1	0	20	3	0	1	0	0	1	5	81
% Approach Total	22.2	75.9	0.0	0.0	1.9	0.0		0.0	0.0	0.0	0.0	50.0	50.0		35.0	45.0	15.0	0.0	5.0	0.0		60.0	0.0	20.0	0.0	0.0	20.0		
PHF	0.750	0.788	0.000	0.000	0.250	0.000	0.794	0.000	0.000	0.000	0.000	0.250	0.250	0.500	0.438	0.750	0.375	0.000	0.250	0.000	0.714	0.375	0.000	0.250	0.000	0.250	0.625	0.844	
Entering Leg	12	41	0	0	1	0	54	0	0	0	0	1	1	2	7	9	3	0	1	0	20	3	0	1	0	0	1	5	81
Exiting Leg	11							9							45							16							81
Total	65							11							65							21							162

PDI File #: 175971 D
 Location: N: Elm Street S: Elm Street
 Location: E: Willow Avenue W: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	5	0	5	0	0	0	0	11	14	25	0	0	0	0	6	6	12	0	0	0	0	11	14	25	67
11:15 AM	0	0	0	0	6	1	7	0	0	0	0	11	16	27	0	0	0	0	11	5	16	0	0	0	0	13	14	27	77
11:30 AM	0	0	0	0	1	0	1	0	0	0	0	14	7	21	0	0	0	0	8	4	12	0	0	0	0	7	22	29	63
11:45 AM	0	0	0	0	3	3	6	0	0	0	0	14	17	31	0	0	0	0	11	13	24	0	0	0	0	4	20	24	85
Total	0	0	0	0	15	4	19	0	0	0	0	50	54	104	0	0	0	0	36	28	64	0	0	0	0	35	70	105	292
12:00 PM	0	0	0	0	4	0	4	0	0	0	0	9	14	23	0	0	0	0	8	8	16	0	0	0	0	21	16	37	80
12:15 PM	0	0	0	0	2	0	2	0	0	0	0	5	17	22	0	0	0	0	9	8	17	0	0	0	0	20	18	38	79
12:30 PM	0	0	0	0	3	1	4	0	0	0	0	13	17	30	0	0	0	0	10	7	17	0	0	0	0	15	31	46	97
12:45 PM	0	0	0	0	2	3	5	0	0	0	0	9	11	20	0	0	0	0	9	4	13	0	0	0	0	24	17	41	79
Total	0	0	0	0	11	4	15	0	0	0	0	36	59	95	0	0	0	0	36	27	63	0	0	0	0	80	82	162	335
1:00 PM	0	0	0	0	4	0	4	0	0	0	0	13	11	24	0	0	0	0	11	4	15	0	0	0	0	8	15	23	66
1:15 PM	0	0	0	0	4	5	9	0	0	0	0	18	14	32	0	0	0	0	9	7	16	0	0	0	0	18	13	31	88
1:30 PM	0	0	0	0	7	7	14	0	0	0	0	15	16	31	0	0	0	0	8	7	15	0	0	0	0	14	20	34	94
1:45 PM	0	0	0	0	1	4	5	0	0	0	0	7	15	22	0	0	0	0	4	16	20	0	0	0	0	14	16	30	77
Total	0	0	0	0	16	16	32	0	0	0	0	53	56	109	0	0	0	0	32	34	66	0	0	0	0	54	64	118	325
Grand Total	0	0	0	0	42	24	66	0	0	0	0	139	169	308	0	0	0	0	104	89	193	0	0	0	0	169	216	385	952
Approach %	0.0	0.0	0.0	0.0	63.6	36.4		0.0	0.0	0.0	0.0	45.1	54.9		0.0	0.0	0.0	0.0	53.9	46.1		0.0	0.0	0.0	0.0	43.9	56.1		
Total %	0.0	0.0	0.0	0.0	4.4	2.5	6.9	0.0	0.0	0.0	0.0	14.6	17.8	32.4	0.0	0.0	0.0	0.0	10.9	9.3	20.3	0.0	0.0	0.0	0.0	17.8	22.7	40.4	
Exiting Leg Total	66							308							193							385							952

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Elm Street							Willow Avenue							Elm Street							Beech Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:45 AM	0	0	0	0	3	3	6	0	0	0	0	14	17	31	0	0	0	0	11	13	24	0	0	0	0	4	20	24	85
12:00 PM	0	0	0	0	4	0	4	0	0	0	0	9	14	23	0	0	0	0	8	8	16	0	0	0	0	21	16	37	80
12:15 PM	0	0	0	0	2	0	2	0	0	0	0	5	17	22	0	0	0	0	9	8	17	0	0	0	0	20	18	38	79
12:30 PM	0	0	0	0	2	0	2	0	0	0	0	5	17	22	0	0	0	0	9	8	17	0	0	0	0	20	18	38	79
Total Volume	0	0	0	0	11	3	14	0	0	0	0	33	65	98	0	0	0	0	37	37	74	0	0	0	0	65	72	137	323
% Approach Total	0.0	0.0	0.0	0.0	78.6	21.4		0.0	0.0	0.0	0.0	33.7	66.3		0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	47.4	52.6		
PHF	0.000	0.000	0.000	0.000	0.688	0.250	0.583	0.000	0.000	0.000	0.000	0.589	0.956	0.790	0.000	0.000	0.000	0.000	0.841	0.712	0.771	0.000	0.000	0.000	0.000	0.774	0.900	0.901	0.950
Entering Leg	0	0	0	0	11	3	14	0	0	0	0	33	65	98	0	0	0	0	37	37	74	0	0	0	0	65	72	137	323
Exiting Leg	14							98							74							137							323
Total	28							196							148							274							646

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	285	0	0	285	9	0	0	0	9	3	82	0	0	85	0	0	0	0	0	379
7:15 AM	0	266	0	0	266	10	0	0	0	10	3	103	0	0	106	0	0	0	0	0	382
7:30 AM	0	245	0	0	245	16	0	0	0	16	8	113	0	0	121	2	0	0	0	2	384
7:45 AM	0	231	0	0	231	12	0	0	0	12	5	117	0	0	122	0	0	0	0	0	365
Total	0	1027	0	0	1027	47	0	0	0	47	19	415	0	0	434	2	0	0	0	2	1510
8:00 AM	0	255	0	0	255	12	0	0	0	12	8	119	0	0	127	0	0	0	0	0	394
8:15 AM	0	217	0	0	217	18	0	0	0	18	11	96	0	0	107	0	0	0	0	0	342
8:30 AM	1	230	0	0	231	6	0	0	0	6	2	107	0	0	109	0	0	0	0	0	346
8:45 AM	0	225	0	0	225	16	0	0	0	16	7	133	0	0	140	2	0	0	0	2	383
Total	1	927	0	0	928	52	0	0	0	52	28	455	0	0	483	2	0	0	0	2	1465
Grand Total	1	1954	0	0	1955	99	0	0	0	99	47	870	0	0	917	4	0	0	0	4	2975
Approach %	0.1	99.9	0.0	0.0		100.0	0.0	0.0	0.0		5.1	94.9	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.0	65.7	0.0	0.0	65.7	3.3	0.0	0.0	0.0	3.3	1.6	29.2	0.0	0.0	30.8	0.1	0.0	0.0	0.0	0.1	
Exiting Leg Total					969					47					1958					1	2975
Cars	1	1862	0	0	1863	97	0	0	0	97	43	774	0	0	817	4	0	0	0	4	2781
% Cars	100.0	95.3	0.0	0.0	95.3	98.0	0.0	0.0	0.0	98.0	91.5	89.0	0.0	0.0	89.1	100.0	0.0	0.0	0.0	100.0	93.5
Exiting Leg Total					871					43					1866					1	2781
Heavy Vehicles	0	92	0	0	92	2	0	0	0	2	4	96	0	0	100	0	0	0	0	0	194
% Heavy Vehicles	0.0	4.7	0.0	0.0	4.7	2.0	0.0	0.0	0.0	2.0	8.5	11.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	6.5
Exiting Leg Total					98					4					92					0	194

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	266	0	0	266	10	0	0	0	10	3	103	0	0	106	0	0	0	0	0	382
7:30 AM	0	245	0	0	245	16	0	0	0	16	8	113	0	0	121	2	0	0	0	2	384
7:45 AM	0	231	0	0	231	12	0	0	0	12	5	117	0	0	122	0	0	0	0	0	365
8:00 AM	0	255	0	0	255	12	0	0	0	12	8	119	0	0	127	0	0	0	0	0	394
Total Volume	0	997	0	0	997	50	0	0	0	50	24	452	0	0	476	2	0	0	0	2	1525
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		5.0	95.0	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.937	0.000	0.000	0.937	0.781	0.000	0.000	0.000	0.781	0.750	0.950	0.000	0.000	0.937	0.250	0.000	0.000	0.000	0.250	0.968
Cars	0	951	0	0	951	49	0	0	0	49	22	400	0	0	422	2	0	0	0	2	1424
Cars %	0.0	95.4	0.0	0.0	95.4	98.0	0.0	0.0	0.0	98.0	91.7	88.5	0.0	0.0	88.7	100.0	0.0	0.0	0.0	100.0	93.4
Heavy Vehicles	0	46	0	0	46	1	0	0	0	1	2	52	0	0	54	0	0	0	0	0	101
Heavy Vehicles %	0.0	4.6	0.0	0.0	4.6	2.0	0.0	0.0	0.0	2.0	8.3	11.5	0.0	0.0	11.3	0.0	0.0	0.0	0.0	0.0	6.6
Cars Enter Leg	0	951	0	0	951	49	0	0	0	49	22	400	0	0	422	2	0	0	0	2	1424
Heavy Enter Leg	0	46	0	0	46	1	0	0	0	1	2	52	0	0	54	0	0	0	0	0	101
Total Entering Leg	0	997	0	0	997	50	0	0	0	50	24	452	0	0	476	2	0	0	0	2	1525
Cars Exiting Leg					449					22					953					0	1424
Heavy Exiting Leg					53					2					46					0	101
Total Exiting Leg					502					24					999					0	1525

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	275	0	0	275	9	0	0	0	9	3	70	0	0	73	0	0	0	0	0	357	
7:15 AM	0	251	0	0	251	10	0	0	0	10	3	90	0	0	93	0	0	0	0	0	354	
7:30 AM	0	238	0	0	238	16	0	0	0	16	8	102	0	0	110	2	0	0	0	2	366	
7:45 AM	0	218	0	0	218	12	0	0	0	12	4	102	0	0	106	0	0	0	0	0	336	
Total	0	982	0	0	982	47	0	0	0	47	18	364	0	0	382	2	0	0	0	2	1413	
8:00 AM	0	244	0	0	244	11	0	0	0	11	7	106	0	0	113	0	0	0	0	0	368	
8:15 AM	0	206	0	0	206	17	0	0	0	17	9	85	0	0	94	0	0	0	0	0	317	
8:30 AM	1	216	0	0	217	6	0	0	0	6	2	95	0	0	97	0	0	0	0	0	320	
8:45 AM	0	214	0	0	214	16	0	0	0	16	7	124	0	0	131	2	0	0	0	2	363	
Total	1	880	0	0	881	50	0	0	0	50	25	410	0	0	435	2	0	0	0	2	1368	
Grand Total	1	1862	0	0	1863	97	0	0	0	97	43	774	0	0	817	4	0	0	0	4	2781	
Approach %	0.1	99.9	0.0	0.0		100.0	0.0	0.0	0.0		5.3	94.7	0.0	0.0		100.0	0.0	0.0	0.0			
Total %	0.0	67.0	0.0	0.0	67.0	3.5	0.0	0.0	0.0	3.5	1.5	27.8	0.0	0.0	29.4	0.1	0.0	0.0	0.0	0.1		
Exiting Leg Total					871					43					1866						1	2781

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	251	0	0	251	10	0	0	0	10	3	90	0	0	93	0	0	0	0	0	354
7:30 AM	0	238	0	0	238	16	0	0	0	16	8	102	0	0	110	2	0	0	0	2	366
7:45 AM	0	218	0	0	218	12	0	0	0	12	4	102	0	0	106	0	0	0	0	0	336
8:00 AM	0	244	0	0	244	11	0	0	0	11	7	106	0	0	113	0	0	0	0	0	368
Total Volume	0	951	0	0	951	49	0	0	0	49	22	400	0	0	422	2	0	0	0	2	1424
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		5.2	94.8	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.947	0.000	0.000	0.947	0.766	0.000	0.000	0.000	0.766	0.688	0.943	0.000	0.000	0.934	0.250	0.000	0.000	0.000	0.250	0.967
Entering Leg	0	951	0	0	951	49	0	0	0	49	22	400	0	0	422	2	0	0	0	2	1424
Exiting Leg					449					22					953					0	1424
Total					1400					71					1375					2	2848

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

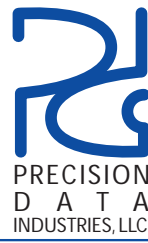
Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	10	0	0	10	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	22
7:15 AM	0	15	0	0	15	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	28
7:30 AM	0	7	0	0	7	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	18
7:45 AM	0	13	0	0	13	0	0	0	0	0	1	15	0	0	16	0	0	0	0	0	29
Total	0	45	0	0	45	0	0	0	0	0	1	51	0	0	52	0	0	0	0	0	97
8:00 AM	0	11	0	0	11	1	0	0	0	1	1	13	0	0	14	0	0	0	0	0	26
8:15 AM	0	11	0	0	11	1	0	0	0	1	2	11	0	0	13	0	0	0	0	0	25
8:30 AM	0	14	0	0	14	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	26
8:45 AM	0	11	0	0	11	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	20
Total	0	47	0	0	47	2	0	0	0	2	3	45	0	0	48	0	0	0	0	0	97
Grand Total	0	92	0	0	92	2	0	0	0	2	4	96	0	0	100	0	0	0	0	0	194
Approach %	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		4.0	96.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	47.4	0.0	0.0	47.4	1.0	0.0	0.0	0.0	1.0	2.1	49.5	0.0	0.0	51.5	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	98					4					92					0					194
Large Trucks	0	68	0	0	68	2	0	0	0	2	4	60	0	0	64	0	0	0	0	0	134
% Large Trucks	0.0	73.9	0.0	0.0	73.9	100.0	0.0	0.0	0.0	100.0	100.0	62.5	0.0	0.0	64.0	0.0	0.0	0.0	0.0	0.0	69.1
Exiting Leg Total	62					4					68					0					134
Buses	0	24	0	0	24	0	0	0	0	0	0	36	0	0	36	0	0	0	0	0	60
% Buses	0.0	26.1	0.0	0.0	26.1	0.0	0.0	0.0	0.0	0.0	0.0	37.5	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	30.9
Exiting Leg Total	36					0					24					0					60

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	13	0	0	13	0	0	0	0	0	1	15	0	0	16	0	0	0	0	0	29
8:00 AM	0	11	0	0	11	1	0	0	0	1	1	13	0	0	14	0	0	0	0	0	26
8:15 AM	0	11	0	0	11	1	0	0	0	1	2	11	0	0	13	0	0	0	0	0	25
8:30 AM	0	14	0	0	14	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	26
Total Volume	0	49	0	0	49	2	0	0	0	2	4	51	0	0	55	0	0	0	0	0	106
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		7.3	92.7	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.875	0.000	0.000	0.875	0.500	0.000	0.000	0.000	0.500	0.500	0.850	0.000	0.000	0.859	0.000	0.000	0.000	0.000	0.000	0.914
Large Trucks	0	38	0	0	38	2	0	0	0	2	4	34	0	0	38	0	0	0	0	0	78
Large Trucks %	0.0	77.6	0.0	0.0	77.6	100.0	0.0	0.0	0.0	100.0	100.0	66.7	0.0	0.0	69.1	0.0	0.0	0.0	0.0	0.0	73.6
Buses	0	11	0	0	11	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	28
Buses %	0.0	22.4	0.0	0.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	30.9	0.0	0.0	0.0	0.0	0.0	26.4
Trucks Enter Leg	0	38	0	0	38	2	0	0	0	2	4	34	0	0	38	0	0	0	0	0	78
Bus Enter Leg	0	11	0	0	11	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	28
Total Entering Leg	0	49	0	0	49	2	0	0	0	2	4	51	0	0	55	0	0	0	0	0	106
Trucks Exiting Leg	36					4					38					0					78
Buses Exiting Leg	17					0					11					0					28
Total Exiting Leg	53					4					49					0					106

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	6	0	0	6	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	13	
7:15 AM	0	11	0	0	11	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	19	
7:30 AM	0	5	0	0	5	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	12	
7:45 AM	0	8	0	0	8	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	18	
Total	0	30	0	0	30	0	0	0	0	0	1	31	0	0	32	0	0	0	0	0	62	
8:00 AM	0	9	0	0	9	1	0	0	0	1	1	9	0	0	10	0	0	0	0	0	20	
8:15 AM	0	9	0	0	9	1	0	0	0	1	2	8	0	0	10	0	0	0	0	0	20	
8:30 AM	0	12	0	0	12	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	20	
8:45 AM	0	8	0	0	8	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	12	
Total	0	38	0	0	38	2	0	0	0	2	3	29	0	0	32	0	0	0	0	0	72	
Grand Total	0	68	0	0	68	2	0	0	0	2	4	60	0	0	64	0	0	0	0	0	134	
Approach %	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		6.3	93.8	0.0	0.0		0.0	0.0	0.0	0.0			
Total %	0.0	50.7	0.0	0.0	50.7	1.5	0.0	0.0	0.0	1.5	3.0	44.8	0.0	0.0	47.8	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total						62					4					68					0	134

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:45 AM	0	8	0	0	8	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	18	
7:45 AM	0	8	0	0	8	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	18	
8:00 AM	0	9	0	0	9	1	0	0	0	1	1	9	0	0	10	0	0	0	0	0	20	
8:15 AM	0	9	0	0	9	1	0	0	0	1	2	8	0	0	10	0	0	0	0	0	20	
8:30 AM	0	12	0	0	12	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	20	
Total Volume	0	38	0	0	38	2	0	0	0	2	4	34	0	0	38	0	0	0	0	0	78	
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		10.5	89.5	0.0	0.0		0.0	0.0	0.0	0.0			
PHF	0.000	0.792	0.000	0.000	0.792	0.500	0.000	0.000	0.000	0.500	0.500	0.944	0.000	0.000	0.950	0.000	0.000	0.000	0.000	0.000	0.975	
Entering Leg	0	38	0	0	38	2	0	0	0	2	4	34	0	0	38	0	0	0	0	0	78	
Exiting Leg						36					4					38					0	78
Total						74					6					76					0	156

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	9	
7:15 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	9	
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6	
7:45 AM	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11	
Total	0	15	0	0	15	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	35	
8:00 AM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6	
8:15 AM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5	
8:30 AM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6	
8:45 AM	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	8	
Total	0	9	0	0	9	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	25	
Grand Total	0	24	0	0	24	0	0	0	0	0	0	36	0	0	36	0	0	0	0	0	60	
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0			
Total %	0.0	40.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total						36					0					24					0	60

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	9	
7:15 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	9	
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6	
7:45 AM	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11	
Total Volume	0	15	0	0	15	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	35	
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0			
PHF	0.000	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.833	0.000	0.000	0.833	0.000	0.000	0.000	0.000	0.000	0.795	
Entering Leg	0	15	0	0	15	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	35	
Exiting Leg						20					0					15					0	35
Total						35					0					35					0	70

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)							Chester Street							Massachusetts Ave (Rt 2A)							Driveway							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4		
7:15 AM	0	2	0	0	0	0	2	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2	0	0	0	0	5		
7:30 AM	0	11	0	0	0	0	11	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	14		
7:45 AM	0	5	0	0	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	8		
Total	0	21	0	0	0	0	21	0	0	0	0	0	1	1	0	9	0	0	0	0	9	0	0	0	0	0	31		
8:00 AM	0	13	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13			
8:15 AM	0	20	0	0	0	0	20	1	0	0	0	0	1	1	0	6	0	0	0	0	6	0	0	0	0	0	27		
8:30 AM	0	21	0	0	0	0	21	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	24		
8:45 AM	0	11	0	0	0	0	11	1	0	0	0	0	1	1	1	3	0	0	0	0	4	0	0	0	0	0	16		
Total	0	65	0	0	0	0	65	2	0	0	0	0	2	2	1	12	0	0	0	0	13	0	0	0	0	0	80		
Grand Total	0	86	0	0	0	0	86	2	0	0	0	0	3	3	1	21	0	0	0	0	22	0	0	0	0	0	111		
Approach %	0.0	100.0	0.0	0.0	0.0	0.0		66.7	0.0	0.0	0.0	0.0	33.3		4.5	95.5	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			
Total %	0.0	77.5	0.0	0.0	0.0	0.0	77.5	1.8	0.0	0.0	0.0	0.0	0.9	2.7	0.9	18.9	0.0	0.0	0.0	0.0	19.8	0.0	0.0	0.0	0.0	0.0			
Exiting Leg Total	23							2							86							0							111

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)							Chester Street							Massachusetts Ave (Rt 2A)							Driveway							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	13	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13		
8:15 AM	0	20	0	0	0	0	20	1	0	0	0	0	1	1	0	6	0	0	0	0	6	0	0	0	0	0	27		
8:30 AM	0	21	0	0	0	0	21	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	24		
8:45 AM	0	11	0	0	0	0	11	1	0	0	0	0	1	1	1	3	0	0	0	0	4	0	0	0	0	0	16		
Total Volume	0	65	0	0	0	0	65	2	0	0	0	0	2	2	1	12	0	0	0	0	13	0	0	0	0	0	80		
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0	0.0		7.7	92.3	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			
PHF	0.000	0.774	0.000	0.000	0.000	0.000	0.774	0.500	0.000	0.000	0.000	0.000	0.500		0.250	0.500	0.000	0.000	0.000	0.000	0.542	0.000	0.000	0.000	0.000	0.000	0.741		
Entering Leg	0	65	0	0	0	0	65	2	0	0	0	0	2	2	1	12	0	0	0	0	13	0	0	0	0	0	80		
Exiting Leg	14							1							65							0							80
Total	79							3							78							0							160

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)								Chester Street								Massachusetts Ave (Rt 2A)								Driveway								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	4		0	0	0	0	0	0	0	0	0	0	0	0	1	1	2		6	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	4	3	7		0	0	0	0	0	0	0	0	0	0	0	0	1	4	5		12	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	3	4	7		0	0	0	0	0	0	0	0	0	0	0	0	3	7	10		17	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	6	4	10		0	0	0	0	0	0	0	0	0	0	0	0	4	4	8		18	
Total	0	0	0	0	0	0	0	0	0	0	0	15	13	28		0	0	0	0	0	0	0	0	0	0	0	0	9	16	25		53	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	5	9	14		0	0	0	0	0	0	0	0	0	0	0	0	3	4	7		21	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	4	6	10		0	0	0	0	0	1	1	1	0	0	0	0	8	6	14		25	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	9	7	16		0	0	0	0	0	0	0	0	0	0	0	0	2	6	8		24	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	4	4	8		0	0	0	0	0	0	0	0	0	0	0	0	4	2	6		14	
Total	0	0	0	0	0	0	0	0	0	0	0	22	26	48		0	0	0	0	0	1	1	1	0	0	0	0	17	18	35		84	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	37	39	76		0	0	0	0	0	1	1	1	0	0	0	0	26	34	60		137	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	48.7	51.3		0.0	0.0	0.0	0.0	0.0	100.0			0.0	0.0	0.0	0.0	43.3	56.7					
Total %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	27.0	28.5	55.5		0.0	0.0	0.0	0.0	0.0	0.7	0.7		0.0	0.0	0.0	0.0	19.0	24.8	43.8			
Exiting Leg Total	0								76								1								60								137

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)								Chester Street								Massachusetts Ave (Rt 2A)								Driveway								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	6	4	10		0	0	0	0	0	0	0	0	0	0	0	0	4	4	8		18	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	5	9	14		0	0	0	0	0	0	0	0	0	0	0	0	3	4	7		21	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	4	6	10		0	0	0	0	0	1	1	1	0	0	0	0	8	6	14		25	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	9	7	16		0	0	0	0	0	0	0	0	0	0	0	0	2	6	8		24	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	24	26	50		0	0	0	0	0	1	1	1	0	0	0	0	17	20	37		88	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	48.0	52.0		0.0	0.0	0.0	0.0	0.0	100.0			0.0	0.0	0.0	0.0	45.9	54.1					
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.667	0.722	0.781		0.000	0.000	0.000	0.000	0.000	0.250	0.250		0.000	0.000	0.000	0.000	0.531	0.833	0.661		0.880	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	24	26	50		0	0	0	0	0	1	1	1	0	0	0	0	17	20	37		88	
Exiting Leg	0								50								1								37								88
Total	0								100								2								74								176

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	156	0	0	156	8	0	0	0	8	2	220	0	0	222	0	0	0	0	0	386
4:15 PM	1	151	0	0	152	6	0	0	0	6	3	234	0	0	237	0	0	0	0	0	395
4:30 PM	0	173	0	0	173	19	0	0	0	19	4	216	0	0	220	0	0	0	0	0	412
4:45 PM	2	169	0	0	171	15	0	0	0	15	5	220	0	0	225	0	0	0	0	0	411
Total	3	649	0	0	652	48	0	0	0	48	14	890	0	0	904	0	0	0	0	0	1604
5:00 PM	0	169	0	0	169	23	0	0	0	23	4	258	0	0	262	0	0	0	0	0	454
5:15 PM	0	181	0	0	181	19	0	0	0	19	4	212	0	0	216	0	0	0	0	0	416
5:30 PM	0	194	0	0	194	18	0	0	0	18	4	213	0	0	217	0	0	0	0	0	429
5:45 PM	0	206	0	0	206	14	0	0	0	14	3	198	0	0	201	1	0	0	0	1	422
Total	0	750	0	0	750	74	0	0	0	74	15	881	0	0	896	1	0	0	0	1	1721
Grand Total	3	1399	0	0	1402	122	0	0	0	122	29	1771	0	0	1800	1	0	0	0	1	3325
Approach %	0.2	99.8	0.0	0.0		100.0	0.0	0.0	0.0		1.6	98.4	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.1	42.1	0.0	0.0	42.2	3.7	0.0	0.0	0.0	3.7	0.9	53.3	0.0	0.0	54.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					1893					29					1400					3	3325
Cars	3	1359	0	0	1362	122	0	0	0	122	29	1733	0	0	1762	1	0	0	0	1	3247
% Cars	100.0	97.1	0.0	0.0	97.1	100.0	0.0	0.0	0.0	100.0	100.0	97.9	0.0	0.0	97.9	100.0	0.0	0.0	0.0	100.0	97.7
Exiting Leg Total					1855					29					1360					3	3247
Heavy Vehicles	0	40	0	0	40	0	0	0	0	0	0	38	0	0	38	0	0	0	0	0	78
% Heavy Vehicles	0.0	2.9	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.3
Exiting Leg Total					38					0					40					0	78

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	169	0	0	169	23	0	0	0	23	4	258	0	0	262	0	0	0	0	0	454
5:15 PM	0	181	0	0	181	19	0	0	0	19	4	212	0	0	216	0	0	0	0	0	416
5:30 PM	0	194	0	0	194	18	0	0	0	18	4	213	0	0	217	0	0	0	0	0	429
5:45 PM	0	206	0	0	206	14	0	0	0	14	3	198	0	0	201	1	0	0	0	1	422
Total Volume	0	750	0	0	750	74	0	0	0	74	15	881	0	0	896	1	0	0	0	1	1721
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		1.7	98.3	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.910	0.000	0.000	0.910	0.804	0.000	0.000	0.000	0.804	0.938	0.854	0.000	0.000	0.855	0.250	0.000	0.000	0.000	0.250	0.948
Cars	0	736	0	0	736	74	0	0	0	74	15	863	0	0	878	1	0	0	0	1	1689
Cars %	0.0	98.1	0.0	0.0	98.1	100.0	0.0	0.0	0.0	100.0	100.0	98.0	0.0	0.0	98.0	100.0	0.0	0.0	0.0	100.0	98.1
Heavy Vehicles	0	14	0	0	14	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	32
Heavy Vehicles %	0.0	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.9
Cars Enter Leg	0	736	0	0	736	74	0	0	0	74	15	863	0	0	878	1	0	0	0	1	1689
Heavy Enter Leg	0	14	0	0	14	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	32
Total Entering Leg	0	750	0	0	750	74	0	0	0	74	15	881	0	0	896	1	0	0	0	1	1721
Cars Exiting Leg					937					15					737					0	1689
Heavy Exiting Leg					18					0					14					0	32
Total Exiting Leg					955					15					751					0	1721

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class: **Cars**



	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	150	0	0	150	8	0	0	0	8	2	212	0	0	214	0	0	0	0	0	372
4:15 PM	1	143	0	0	144	6	0	0	0	6	3	229	0	0	232	0	0	0	0	0	382
4:30 PM	0	165	0	0	165	19	0	0	0	19	4	211	0	0	215	0	0	0	0	0	399
4:45 PM	2	165	0	0	167	15	0	0	0	15	5	218	0	0	223	0	0	0	0	0	405
Total	3	623	0	0	626	48	0	0	0	48	14	870	0	0	884	0	0	0	0	0	1558
5:00 PM	0	166	0	0	166	23	0	0	0	23	4	253	0	0	257	0	0	0	0	0	446
5:15 PM	0	178	0	0	178	19	0	0	0	19	4	206	0	0	210	0	0	0	0	0	407
5:30 PM	0	190	0	0	190	18	0	0	0	18	4	210	0	0	214	0	0	0	0	0	422
5:45 PM	0	202	0	0	202	14	0	0	0	14	3	194	0	0	197	1	0	0	0	1	414
Total	0	736	0	0	736	74	0	0	0	74	15	863	0	0	878	1	0	0	0	1	1689
Grand Total	3	1359	0	0	1362	122	0	0	0	122	29	1733	0	0	1762	1	0	0	0	1	3247
Approach %	0.2	99.8	0.0	0.0		100.0	0.0	0.0	0.0		1.6	98.4	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.1	41.9	0.0	0.0	41.9	3.8	0.0	0.0	0.0	3.8	0.9	53.4	0.0	0.0	54.3	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	1855					29					1360					3					3247

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	166	0	0	166	23	0	0	0	23	4	253	0	0	257	0	0	0	0	0	446
5:15 PM	0	178	0	0	178	19	0	0	0	19	4	206	0	0	210	0	0	0	0	0	407
5:30 PM	0	190	0	0	190	18	0	0	0	18	4	210	0	0	214	0	0	0	0	0	422
5:45 PM	0	202	0	0	202	14	0	0	0	14	3	194	0	0	197	1	0	0	0	1	414
Total Volume	0	736	0	0	736	74	0	0	0	74	15	863	0	0	878	1	0	0	0	1	1689
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		1.7	98.3	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.911	0.000	0.000	0.911	0.804	0.000	0.000	0.000	0.804	0.938	0.853	0.000	0.000	0.854	0.250	0.000	0.000	0.000	0.250	0.947
Entering Leg	0	736	0	0	736	74	0	0	0	74	15	863	0	0	878	1	0	0	0	1	1689
Exiting Leg	937					15					737					0					1689
Total	1673					89					1615					1					3378

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	6	0	0	6	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	14
4:15 PM	0	8	0	0	8	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	13
4:30 PM	0	8	0	0	8	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	13
4:45 PM	0	4	0	0	4	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	6
Total	0	26	0	0	26	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	46
5:00 PM	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	8
5:15 PM	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	9
5:30 PM	0	4	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
5:45 PM	0	4	0	0	4	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	8
Total	0	14	0	0	14	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	32
Grand Total	0	40	0	0	40	0	0	0	0	0	0	38	0	0	38	0	0	0	0	0	78
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	51.3	0.0	0.0	51.3	0.0	0.0	0.0	0.0	0.0	0.0	48.7	0.0	0.0	48.7	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					38					0				40						0	78
Large Trucks	0	19	0	0	19	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	39
% Large Trucks	0.0	47.5	0.0	0.0	47.5	0.0	0.0	0.0	0.0	0.0	0.0	52.6	0.0	0.0	52.6	0.0	0.0	0.0	0.0	0.0	50.0
Exiting Leg Total					20					0				19						0	39
Buses	0	21	0	0	21	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	39
% Buses	0.0	52.5	0.0	0.0	52.5	0.0	0.0	0.0	0.0	0.0	0.0	47.4	0.0	0.0	47.4	0.0	0.0	0.0	0.0	0.0	50.0
Exiting Leg Total					18					0				21						0	39

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	6	0	0	6	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	14
4:15 PM	0	8	0	0	8	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	13
4:30 PM	0	8	0	0	8	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	13
4:45 PM	0	4	0	0	4	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	6
Total Volume	0	26	0	0	26	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	46
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.813	0.000	0.000	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.821
Large Trucks	0	12	0	0	12	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	23
Large Trucks %	0.0	46.2	0.0	0.0	46.2	0.0	0.0	0.0	0.0	0.0	0.0	55.0	0.0	0.0	55.0	0.0	0.0	0.0	0.0	0.0	50.0
Buses	0	14	0	0	14	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	23
Buses %	0.0	53.8	0.0	0.0	53.8	0.0	0.0	0.0	0.0	0.0	0.0	45.0	0.0	0.0	45.0	0.0	0.0	0.0	0.0	0.0	50.0
Trucks Enter Leg	0	12	0	0	12	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	23
Bus Enter Leg	0	14	0	0	14	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	23
Total Entering Leg	0	26	0	0	26	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	46
Trucks Exiting Leg					11					0				12						0	23
Buses Exiting Leg					9					0				14						0	23
Total Exiting Leg					20					0				26						0	46

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Large Trucks

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	7
4:15 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
4:30 PM	0	7	0	0	7	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	10
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	12	0	0	12	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	23
5:00 PM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:30 PM	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
Total	0	7	0	0	7	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	16
Grand Total	0	19	0	0	19	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	39
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	48.7	0.0	0.0	48.7	0.0	0.0	0.0	0.0	0.0	0.0	51.3	0.0	0.0	51.3	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	20					0					19					0					39

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	7
4:15 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
4:30 PM	0	7	0	0	7	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	10
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Volume	0	12	0	0	12	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	23
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.429	0.000	0.000	0.429	0.000	0.000	0.000	0.000	0.000	0.000	0.458	0.000	0.000	0.458	0.000	0.000	0.000	0.000	0.000	0.575
Entering Leg	0	12	0	0	12	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	23
Exiting Leg	11					0					12					0					23
Total	23					0					23					0					46

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	5	0	0	5	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	7
4:15 PM	0	6	0	0	6	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	9
4:30 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
Total	0	14	0	0	14	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	23
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:15 PM	0	2	0	0	2	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	7
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:45 PM	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
Total	0	7	0	0	7	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	16
Grand Total	0	21	0	0	21	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	39
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	53.8	0.0	0.0	53.8	0.0	0.0	0.0	0.0	0.0	0.0	46.2	0.0	0.0	46.2	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	18					0					21					0					39

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	5	0	0	5	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	7
4:15 PM	0	6	0	0	6	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	9
4:30 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
Total Volume	0	14	0	0	14	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	23
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.583	0.000	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.639
Entering Leg	0	14	0	0	14	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	23
Exiting Leg	9					0					14					0					23
Total	23					0					23					0					46

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)							Chester Street							Massachusetts Ave (Rt 2A)							Driveway							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	4	0	0	0	0	5	0	0	0	0	0	0	0	6
4:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	12	0	0	0	0	12	0	0	0	0	0	0	0	13
4:30 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	0	0	8
4:45 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	1	12	0	0	0	0	13	0	0	0	0	0	0	0	15
Total	0	5	0	0	0	0	5	0	0	0	0	0	0	0	2	35	0	0	0	0	37	0	0	0	0	0	0	0	42
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10	0	0	0	0	0	0	0	10
5:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	11	0	0	0	0	12	1	0	0	0	0	1	2	15
5:30 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	17	0	0	0	0	17	0	0	0	0	0	0	0	18
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	14	0	0	0	0	0	0	0	14
Total	0	2	0	0	0	0	2	0	0	0	0	0	0	0	1	52	0	0	0	0	53	1	0	0	0	0	1	2	57
Grand Total	0	7	0	0	0	0	7	0	0	0	0	0	0	0	3	87	0	0	0	0	90	1	0	0	0	0	1	2	99
Approach %	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		3.3	96.7	0.0	0.0	0.0	0.0		50.0	0.0	0.0	0.0	0.0	50.0		
Total %	0.0	7.1	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	87.9	0.0	0.0	0.0	0.0	90.9	1.0	0.0	0.0	0.0	0.0	1.0	2.0	
Exiting Leg Total	87							3							8							1							

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)							Chester Street							Massachusetts Ave (Rt 2A)							Driveway							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:45 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	1	12	0	0	0	0	13	0	0	0	0	0	0	0	15
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10	0	0	0	0	0	0	0	10
5:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	11	0	0	0	0	12	1	0	0	0	0	1	2	15
5:30 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	17	0	0	0	0	17	0	0	0	0	0	0	0	18
Total Volume	0	4	0	0	0	0	4	0	0	0	0	0	0	0	2	50	0	0	0	0	52	1	0	0	0	0	1	2	58
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		3.8	96.2	0.0	0.0	0.0	0.0		50.0	0.0	0.0	0.0	0.0	50.0		
PHF	0.000	0.500	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.735	0.000	0.000	0.000	0.000	0.765	0.250	0.000	0.000	0.000	0.000	0.250	0.250	0.806
Entering Leg	0	4	0	0	0	0	4	0	0	0	0	0	0	0	2	50	0	0	0	0	52	1	0	0	0	0	1	2	58
Exiting Leg	50							2							5							1							
Total	54							2							57							3							

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)								Chester Street								Massachusetts Ave (Rt 2A)								Driveway								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	10	12		0	0	0	0	0	0	0	0	0	0	0	0	2	6	8		20
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	4	9		0	0	0	0	0	0	0	0	0	0	0	0	5	4	9		18
4:30 PM	0	0	0	0	1	1	2		0	0	0	0	5	6	11		0	0	0	0	0	0	0	0	0	0	0	0	5	5	10		23
4:45 PM	0	0	0	0	0	1	1		0	0	0	0	3	16	19		0	0	0	0	0	0	0	0	0	0	0	0	3	3	6		26
Total	0	0	0	0	1	2	3		0	0	0	0	15	36	51		0	0	0	0	0	0	0	0	0	0	0	0	15	18	33		87
5:00 PM	0	0	0	0	0	0	0		0	0	0	0	5	10	15		0	0	0	0	0	0	0	0	0	0	0	0	4	6	10		25
5:15 PM	0	0	0	0	0	0	0		0	0	0	0	6	11	17		0	0	0	0	0	1	1		0	0	0	0	6	2	8		26
5:30 PM	0	0	0	0	0	0	0		0	0	0	0	6	6	12		0	0	0	0	0	0	0	0	0	0	0	0	2	1	3		15
5:45 PM	0	0	0	0	0	0	0		0	0	0	0	3	7	10		0	0	0	0	0	1	1		0	0	0	0	6	6	12		23
Total	0	0	0	0	0	0	0		0	0	0	0	20	34	54		0	0	0	0	0	2	2		0	0	0	0	18	15	33		89
Grand Total	0	0	0	0	1	2	3		0	0	0	0	35	70	105		0	0	0	0	0	2	2		0	0	0	0	33	33	66		176
Approach %	0.0	0.0	0.0	0.0	33.3	66.7		0.0	0.0	0.0	0.0	33.3	66.7		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	50.0	50.0						
Total %	0.0	0.0	0.0	0.0	0.6	1.1	1.7		0.0	0.0	0.0	0.0	19.9	39.8	59.7		0.0	0.0	0.0	0.0	0.0	1.1	1.1		0.0	0.0	0.0	0.0	18.8	18.8	37.5		
Exiting Leg Total								3								105								2								66	176

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)								Chester Street								Massachusetts Ave (Rt 2A)								Driveway								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:30 PM	0	0	0	0	1	1	2		0	0	0	0	5	6	11		0	0	0	0	0	0	0	0	0	0	0	0	5	5	10		23
4:45 PM	0	0	0	0	0	1	1		0	0	0	0	3	16	19		0	0	0	0	0	0	0	0	0	0	0	0	3	3	6		26
5:00 PM	0	0	0	0	0	0	0		0	0	0	0	5	10	15		0	0	0	0	0	0	0	0	0	0	0	0	4	6	10		25
5:15 PM	0	0	0	0	0	0	0		0	0	0	0	6	11	17		0	0	0	0	0	1	1		0	0	0	0	6	2	8		26
Total Volume	0	0	0	0	1	2	3		0	0	0	0	19	43	62		0	0	0	0	0	1	1		0	0	0	0	18	16	34		100
% Approach Total	0.0	0.0	0.0	0.0	33.3	66.7		0.0	0.0	0.0	0.0	30.6	69.4		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	52.9	47.1						
PHF	0.000	0.000	0.000	0.000	0.250	0.500	0.375		0.000	0.000	0.000	0.000	0.792	0.672	0.816		0.000	0.000	0.000	0.000	0.000	0.250	0.250		0.000	0.000	0.000	0.000	0.750	0.667	0.850		0.962
Entering Leg	0	0	0	0	1	2	3		0	0	0	0	19	43	62		0	0	0	0	0	1	1		0	0	0	0	18	16	34		100
Exiting Leg								3								62								1								34	100
Total								6								124								2								68	200

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	182	0	0	182	11	0	0	0	11	8	154	0	0	162	1	0	0	0	1	356
11:15 AM	0	152	0	0	152	16	0	0	0	16	7	155	0	0	162	0	0	0	0	0	330
11:30 AM	0	178	0	0	178	14	0	0	0	14	3	153	0	0	156	0	0	0	0	0	348
11:45 AM	0	173	0	0	173	21	0	0	0	21	4	166	0	0	170	0	0	0	0	0	364
Total	0	685	0	0	685	62	0	0	0	62	22	628	0	0	650	1	0	0	0	1	1398
12:00 PM	0	156	0	0	156	17	0	0	0	17	8	158	0	0	166	0	0	0	0	0	339
12:15 PM	0	163	0	0	163	26	0	0	0	26	7	182	0	0	189	0	0	0	0	0	378
12:30 PM	0	185	0	0	185	12	0	0	0	12	5	144	0	0	149	1	0	0	0	1	347
12:45 PM	0	173	0	0	173	27	0	0	0	27	7	168	0	0	175	0	0	0	0	0	375
Total	0	677	0	0	677	82	0	0	0	82	27	652	0	0	679	1	0	0	0	1	1439
1:00 PM	1	166	0	0	167	19	0	0	0	19	10	145	0	0	155	0	0	0	0	0	341
1:15 PM	0	166	0	0	166	26	0	0	0	26	5	173	0	0	178	0	0	0	0	0	370
1:30 PM	0	178	0	0	178	18	0	0	0	18	4	180	0	0	184	0	0	0	0	0	380
1:45 PM	0	184	0	0	184	20	0	0	0	20	8	177	0	0	185	0	0	0	0	0	389
Total	1	694	0	0	695	83	0	0	0	83	27	675	0	0	702	0	0	0	0	0	1480
Grand Total	1	2056	0	0	2057	227	0	0	0	227	76	1955	0	0	2031	2	0	0	0	2	4317
Approach %	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		3.7	96.3	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.0	47.6	0.0	0.0	47.6	5.3	0.0	0.0	0.0	5.3	1.8	45.3	0.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	2182					76					2058					1					4317
Cars	1	2008	0	0	2009	220	0	0	0	220	72	1897	0	0	1969	2	0	0	0	2	4200
% Cars	100.0	97.7	0.0	0.0	97.7	96.9	0.0	0.0	0.0	96.9	94.7	97.0	0.0	0.0	96.9	100.0	0.0	0.0	0.0	100.0	97.3
Exiting Leg Total	2117					72					2010					1					4200
Heavy Vehicles	0	48	0	0	48	7	0	0	0	7	4	58	0	0	62	0	0	0	0	0	117
% Heavy Vehicles	0.0	2.3	0.0	0.0	2.3	3.1	0.0	0.0	0.0	3.1	5.3	3.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	2.7
Exiting Leg Total	65					4					48					0					117

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
1:00 PM	1	166	0	0	167	19	0	0	0	19	10	145	0	0	155	0	0	0	0	0	341
1:15 PM	0	166	0	0	166	26	0	0	0	26	5	173	0	0	178	0	0	0	0	0	370
1:30 PM	0	178	0	0	178	18	0	0	0	18	4	180	0	0	184	0	0	0	0	0	380
1:45 PM	0	184	0	0	184	20	0	0	0	20	8	177	0	0	185	0	0	0	0	0	389
Total Volume	1	694	0	0	695	83	0	0	0	83	27	675	0	0	702	0	0	0	0	0	1480
% Approach Total	0.1	99.9	0.0	0.0		100.0	0.0	0.0	0.0		3.8	96.2	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.943	0.000	0.000	0.944	0.798	0.000	0.000	0.000	0.798	0.675	0.938	0.000	0.000	0.949	0.000	0.000	0.000	0.000	0.000	0.951
Cars	1	678	0	0	679	79	0	0	0	79	26	655	0	0	681	0	0	0	0	0	1439
Cars %	100.0	97.7	0.0	0.0	97.7	95.2	0.0	0.0	0.0	95.2	96.3	97.0	0.0	0.0	97.0	0.0	0.0	0.0	0.0	0.0	97.2
Heavy Vehicles	0	16	0	0	16	4	0	0	0	4	1	20	0	0	21	0	0	0	0	0	41
Heavy Vehicles %	0.0	2.3	0.0	0.0	2.3	4.8	0.0	0.0	0.0	4.8	3.7	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	2.8
Cars Enter Leg	1	678	0	0	679	79	0	0	0	79	26	655	0	0	681	0	0	0	0	0	1439
Heavy Enter Leg	0	16	0	0	16	4	0	0	0	4	1	20	0	0	21	0	0	0	0	0	41
Total Entering Leg	1	694	0	0	695	83	0	0	0	83	27	675	0	0	702	0	0	0	0	0	1480
Cars Exiting Leg	734					26					678					1					1439
Heavy Exiting Leg	24					1					16					0					41
Total Exiting Leg	758					27					694					1					1480

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	177	0	0	177	10	0	0	0	10	8	150	0	0	158	1	0	0	0	1	346
11:15 AM	0	150	0	0	150	16	0	0	0	16	7	153	0	0	160	0	0	0	0	0	326
11:30 AM	0	174	0	0	174	13	0	0	0	13	3	145	0	0	148	0	0	0	0	0	335
11:45 AM	0	168	0	0	168	21	0	0	0	21	4	160	0	0	164	0	0	0	0	0	353
Total	0	669	0	0	669	60	0	0	0	60	22	608	0	0	630	1	0	0	0	1	1360
12:00 PM	0	148	0	0	148	17	0	0	0	17	8	155	0	0	163	0	0	0	0	0	328
12:15 PM	0	159	0	0	159	26	0	0	0	26	7	179	0	0	186	0	0	0	0	0	371
12:30 PM	0	182	0	0	182	11	0	0	0	11	3	141	0	0	144	1	0	0	0	1	338
12:45 PM	0	172	0	0	172	27	0	0	0	27	6	159	0	0	165	0	0	0	0	0	364
Total	0	661	0	0	661	81	0	0	0	81	24	634	0	0	658	1	0	0	0	1	1401
1:00 PM	1	164	0	0	165	17	0	0	0	17	9	138	0	0	147	0	0	0	0	0	329
1:15 PM	0	160	0	0	160	26	0	0	0	26	5	168	0	0	173	0	0	0	0	0	359
1:30 PM	0	174	0	0	174	17	0	0	0	17	4	177	0	0	181	0	0	0	0	0	372
1:45 PM	0	180	0	0	180	19	0	0	0	19	8	172	0	0	180	0	0	0	0	0	379
Total	1	678	0	0	679	79	0	0	0	79	26	655	0	0	681	0	0	0	0	0	1439
Grand Total	1	2008	0	0	2009	220	0	0	0	220	72	1897	0	0	1969	2	0	0	0	2	4200
Approach %	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		3.7	96.3	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.0	47.8	0.0	0.0	47.8	5.2	0.0	0.0	0.0	5.2	1.7	45.2	0.0	0.0	46.9	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					2117					72					2010					1	4200

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

1:00 PM	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
1:00 PM	1	164	0	0	165	17	0	0	0	17	9	138	0	0	147	0	0	0	0	0	329
1:15 PM	0	160	0	0	160	26	0	0	0	26	5	168	0	0	173	0	0	0	0	0	359
1:30 PM	0	174	0	0	174	17	0	0	0	17	4	177	0	0	181	0	0	0	0	0	372
1:45 PM	0	180	0	0	180	19	0	0	0	19	8	172	0	0	180	0	0	0	0	0	379
Total Volume	1	678	0	0	679	79	0	0	0	79	26	655	0	0	681	0	0	0	0	0	1439
% Approach Total	0.1	99.9	0.0	0.0		100.0	0.0	0.0	0.0		3.8	96.2	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.942	0.000	0.000	0.943	0.760	0.000	0.000	0.000	0.760	0.722	0.925	0.000	0.000	0.941	0.000	0.000	0.000	0.000	0.000	0.949
Entering Leg	1	678	0	0	679	79	0	0	0	79	26	655	0	0	681	0	0	0	0	0	1439
Exiting Leg					734					26					678					1	1439
Total					1413					105					1359					1	2878

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	5	0	0	5	1	0	0	0	1	0	4	0	0	4	0	0	0	0	0	10
11:15 AM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
11:30 AM	0	4	0	0	4	1	0	0	0	1	0	8	0	0	8	0	0	0	0	0	13
11:45 AM	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
Total	0	16	0	0	16	2	0	0	0	2	0	20	0	0	20	0	0	0	0	0	38
12:00 PM	0	8	0	0	8	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	11
12:15 PM	0	4	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
12:30 PM	0	3	0	0	3	1	0	0	0	1	2	3	0	0	5	0	0	0	0	0	9
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	11
Total	0	16	0	0	16	1	0	0	0	1	3	18	0	0	21	0	0	0	0	0	38
1:00 PM	0	2	0	0	2	2	0	0	0	2	1	7	0	0	8	0	0	0	0	0	12
1:15 PM	0	6	0	0	6	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	11
1:30 PM	0	4	0	0	4	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	8
1:45 PM	0	4	0	0	4	1	0	0	0	1	0	5	0	0	5	0	0	0	0	0	10
Total	0	16	0	0	16	4	0	0	0	4	1	20	0	0	21	0	0	0	0	0	41
Grand Total	0	48	0	0	48	7	0	0	0	7	4	58	0	0	62	0	0	0	0	0	117
Approach %	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		6.5	93.5	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	41.0	0.0	0.0	41.0	6.0	0.0	0.0	0.0	6.0	3.4	49.6	0.0	0.0	53.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	65					4					48					0					117
Large Trucks	0	30	0	0	30	6	0	0	0	6	4	42	0	0	46	0	0	0	0	0	82
% Large Trucks	0.0	62.5	0.0	0.0	62.5	85.7	0.0	0.0	0.0	85.7	100.0	72.4	0.0	0.0	74.2	0.0	0.0	0.0	0.0	0.0	70.1
Exiting Leg Total	48					4					30					0					82
Buses	0	18	0	0	18	1	0	0	0	1	0	16	0	0	16	0	0	0	0	0	35
% Buses	0.0	37.5	0.0	0.0	37.5	14.3	0.0	0.0	0.0	14.3	0.0	27.6	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.0	29.9
Exiting Leg Total	17					0					18					0					35

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	3	0	0	3	1	0	0	0	1	2	3	0	0	5	0	0	0	0	0	9
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	11
1:00 PM	0	2	0	0	2	2	0	0	0	2	1	7	0	0	8	0	0	0	0	0	12
1:15 PM	0	6	0	0	6	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	11
Total Volume	0	12	0	0	12	3	0	0	0	3	4	24	0	0	28	0	0	0	0	0	43
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		14.3	85.7	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.375	0.000	0.000	0.000	0.375	0.500	0.667	0.000	0.000	0.700	0.000	0.000	0.000	0.000	0.000	0.896
Large Trucks	0	7	0	0	7	3	0	0	0	3	4	20	0	0	24	0	0	0	0	0	34
Large Trucks %	0.0	58.3	0.0	0.0	58.3	100.0	0.0	0.0	0.0	100.0	100.0	83.3	0.0	0.0	85.7	0.0	0.0	0.0	0.0	0.0	79.1
Buses	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	9
Buses %	0.0	41.7	0.0	0.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	20.9
Trucks Enter Leg	0	7	0	0	7	3	0	0	0	3	4	20	0	0	24	0	0	0	0	0	34
Bus Enter Leg	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	9
Total Entering Leg	0	12	0	0	12	3	0	0	0	3	4	24	0	0	28	0	0	0	0	0	43
Trucks Exiting Leg	23					4					7					0					34
Buses Exiting Leg	4					0					5					0					9
Total Exiting Leg	27					4					12					0					43

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	3	0	0	3	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	5
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	8
11:45 AM	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	8
Total	0	9	0	0	9	1	0	0	0	1	0	14	0	0	14	0	0	0	0	0	24
12:00 PM	0	7	0	0	7	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	10
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	1	0	0	1	1	0	0	0	1	2	3	0	0	5	0	0	0	0	0	7
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	9
Total	0	11	0	0	11	1	0	0	0	1	3	13	0	0	16	0	0	0	0	0	28
1:00 PM	0	2	0	0	2	2	0	0	0	2	1	6	0	0	7	0	0	0	0	0	11
1:15 PM	0	3	0	0	3	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	7
1:30 PM	0	3	0	0	3	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	6
1:45 PM	0	2	0	0	2	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	6
Total	0	10	0	0	10	4	0	0	0	4	1	15	0	0	16	0	0	0	0	0	30
Grand Total	0	30	0	0	30	6	0	0	0	6	4	42	0	0	46	0	0	0	0	0	82
Approach %	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		8.7	91.3	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	36.6	0.0	0.0	36.6	7.3	0.0	0.0	0.0	7.3	4.9	51.2	0.0	0.0	56.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	48					4					30					0					82

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:30 PM	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	1	0	0	1	1	0	0	0	1	2	3	0	0	5	0	0	0	0	0	7
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	9
1:00 PM	0	2	0	0	2	2	0	0	0	2	1	6	0	0	7	0	0	0	0	0	11
1:15 PM	0	3	0	0	3	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	7
Total Volume	0	7	0	0	7	3	0	0	0	3	4	20	0	0	24	0	0	0	0	0	34
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		16.7	83.3	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.583	0.000	0.000	0.583	0.375	0.000	0.000	0.000	0.375	0.500	0.714	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.773
Entering Leg	0	7	0	0	7	3	0	0	0	3	4	20	0	0	24	0	0	0	0	0	34
Exiting Leg	23					4					7					0					34
Total	30					7					31					0					68

PDI File #: **175971 E**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Chester Street W: Driveway**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	2	0	0	2	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	5
11:45 AM	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Total	0	7	0	0	7	1	0	0	0	1	0	6	0	0	6	0	0	0	0	0	14
12:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
12:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
Total	0	5	0	0	5	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	10
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1:15 PM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
1:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
1:45 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
Total	0	6	0	0	6	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	11
Grand Total	0	18	0	0	18	1	0	0	0	1	0	16	0	0	16	0	0	0	0	0	35
Approach %	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	51.4	0.0	0.0	51.4	2.9	0.0	0.0	0.0	2.9	0.0	45.7	0.0	0.0	45.7	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	17					0					18					0					35

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Massachusetts Ave (Rt 2A)					Chester Street					Massachusetts Ave (Rt 2A)					Driveway					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	2	0	0	2	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	5
11:45 AM	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Total Volume	0	7	0	0	7	1	0	0	0	1	0	6	0	0	6	0	0	0	0	0	14
% Approach Total	0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.875	0.000	0.000	0.875	0.250	0.000	0.000	0.000	0.250	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.700
Entering Leg	0	7	0	0	7	1	0	0	0	1	0	6	0	0	6	0	0	0	0	0	14
Exiting Leg	7					0					7					0					14
Total	14					1					13					0					28

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)							Chester Street							Massachusetts Ave (Rt 2A)							Driveway							Total												
	from North							from East							from South							from West																			
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total													
11:00 AM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
11:15 AM	0	5	0	0	0	0	5	2	0	0	0	0	0	0	0	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
11:30 AM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
11:45 AM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Total	0	17	0	0	0	0	17	2	0	0	0	0	0	0	0	2	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	
12:00 PM	0	4	0	0	0	0	4	2	0	0	0	0	0	0	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
12:15 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	13	
12:30 PM	0	7	0	0	0	0	7	1	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
12:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	8		
Total	0	17	0	0	0	0	17	3	0	0	0	0	0	0	3	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	4	0	0	0	46		
1:00 PM	0	7	0	0	0	0	7	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
1:15 PM	0	3	0	0	0	0	3	1	0	0	0	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	9		
1:30 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	6		
1:45 PM	0	14	0	0	0	0	14	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16		
Total	0	25	0	0	0	0	25	1	0	0	0	0	1	2	4	2	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	43			
Grand Total	0	59	0	0	0	0	59	6	0	0	0	0	1	2	9	2	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	7	0	0	0	149			
Approach %	0.0	100.0	0.0	0.0	0.0	0.0		66.7	0.0	0.0	0.0	11.1	22.2		2.7	97.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.1	42.9								
Total %	0.0	39.6	0.0	0.0	0.0	0.0	39.6	4.0	0.0	0.0	0.0	0.7	1.3	6.0		1.3	48.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.0	4.7								
Exiting Leg Total							78							5																								7	149		

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)							Chester Street							Massachusetts Ave (Rt 2A)							Driveway							Total											
	from North							from East							from South							from West																		
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total												
11:15 AM	0	5	0	0	0	0	5	2	0	0	0	0	0	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
11:30 AM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
11:45 AM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
12:00 PM	0	4	0	0	0	0	4	2	0	0	0	0	0	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Total Volume	0	15	0	0	0	0	15	4	0	0	0	0	0	4	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.750	0.000	0.000	0.000	0.000	0.750	0.500	0.000	0.000	0.000	0.000	0.500		0.000	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.897			
Entering Leg	0	15	0	0	0	0	15	4	0	0	0	0	4	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61		
Exiting Leg							46						0																									0	61	
Total							61					4																									0	122		

PDI File #: 175971 E
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Chester Street W: Driveway
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)								Chester Street								Massachusetts Ave (Rt 2A)								Driveway								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	12	11	23		0	0	0	0	0	0	0	0	0	0	0	7	9	16	39			
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	7	10	17		0	0	0	0	0	0	0	0	0	0	0	5	6	11	28			
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	20	8	28		0	0	0	0	0	0	0	0	0	0	8	7	15	43				
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	9	18	27		0	0	0	0	0	0	0	0	0	0	4	9	13	40				
Total	0	0	0	0	0	0	0	0	0	0	0	48	47	95		0	0	0	0	0	0	0	0	0	0	24	31	55	150				
12:00 PM	0	0	0	0	1	1	2		0	0	0	12	12	24		0	0	0	0	1	0	1		0	0	0	10	11	21	48			
12:15 PM	0	0	0	0	1	1	2		0	0	0	9	9	18		0	0	0	0	0	0	0	0	0	0	8	8	16	36				
12:30 PM	0	0	0	0	0	0	0		0	0	0	9	11	20		0	0	0	0	0	0	0	0	0	0	3	7	10	30				
12:45 PM	0	0	0	0	0	0	0		0	0	0	4	14	18		0	0	0	0	0	0	0	0	0	0	4	7	11	29				
Total	0	0	0	0	2	2	4		0	0	0	34	46	80		0	0	0	0	1	0	1		0	0	0	25	33	58	143			
1:00 PM	0	0	0	0	0	0	0		0	0	0	14	13	27		0	0	0	0	1	0	1		0	0	0	3	3	6	34			
1:15 PM	0	0	0	0	0	0	0		0	0	0	12	14	26		0	0	0	0	0	0	0	0	0	0	9	10	19	45				
1:30 PM	0	0	0	0	0	0	0		0	0	0	7	15	22		0	0	0	0	0	0	0	0	0	0	6	3	9	31				
1:45 PM	0	0	0	0	0	2	2		0	0	0	13	10	23		0	0	0	0	0	1	1		0	0	0	4	7	11	37			
Total	0	0	0	0	0	2	2		0	0	0	46	52	98		0	0	0	0	1	1	2		0	0	0	22	23	45	147			
Grand Total	0	0	0	0	2	4	6		0	0	0	128	145	273		0	0	0	0	2	1	3		0	0	0	71	87	158	440			
Approach %	0.0	0.0	0.0	0.0	33.3	66.7			0.0	0.0	0.0	46.9	53.1		0.0	0.0	0.0	0.0	66.7	33.3			0.0	0.0	0.0	44.9	55.1						
Total %	0.0	0.0	0.0	0.0	0.5	0.9	1.4		0.0	0.0	0.0	29.1	33.0	62.0		0.0	0.0	0.0	0.0	0.5	0.2	0.7		0.0	0.0	0.0	16.1	19.8	35.9				
Exiting Leg Total	6							273							3							158							440				

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)								Chester Street								Massachusetts Ave (Rt 2A)								Driveway								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:30 AM	0	0	0	0	0	0	0		0	0	0	20	8	28		0	0	0	0	0	0	0		0	0	0	8	7	15	43			
11:45 AM	0	0	0	0	0	0	0		0	0	0	9	18	27		0	0	0	0	0	0	0		0	0	0	4	9	13	40			
12:00 PM	0	0	0	0	1	1	2		0	0	0	12	12	24		0	0	0	0	1	0	1		0	0	0	10	11	21	48			
12:15 PM	0	0	0	0	1	1	2		0	0	0	9	9	18		0	0	0	0	0	0	0		0	0	0	8	8	16	36			
Total Volume	0	0	0	0	2	2	4		0	0	0	50	47	97		0	0	0	0	1	0	1		0	0	0	30	35	65	167			
% Approach Total	0.0	0.0	0.0	0.0	50.0	50.0			0.0	0.0	0.0	51.5	48.5		0.0	0.0	0.0	0.0	100.0	0.0			0.0	0.0	0.0	46.2	53.8						
PHF	0.000	0.000	0.000	0.000	0.500	0.500	0.500		0.000	0.000	0.000	0.625	0.653	0.866		0.000	0.000	0.000	0.000	0.250	0.000	0.250		0.000	0.000	0.000	0.000	0.750	0.795	0.774	0.870		
Entering Leg	0	0	0	0	2	2	4		0	0	0	50	47	97		0	0	0	0	1	0	1		0	0	0	30	35	65	167			
Exiting Leg	4							97							1							65							167				
Total	8							194							2							130							334				

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	2	271	33	0	306	0	0	0	0	0	11	101	0	0	112	2	0	5	0	7	425
7:15 AM	0	284	32	0	316	0	0	0	0	0	23	172	0	0	195	2	1	4	0	7	518
7:30 AM	1	262	24	0	287	0	0	0	0	0	26	178	0	0	204	3	1	0	0	4	495
7:45 AM	4	256	33	1	294	0	0	0	0	0	38	185	0	0	223	0	1	0	0	1	518
Total	7	1073	122	1	1203	0	0	0	0	0	98	636	0	0	734	7	3	9	0	19	1956
8:00 AM	3	268	35	0	306	0	0	0	0	0	42	180	0	0	222	0	3	0	0	3	531
8:15 AM	3	228	45	0	276	0	0	0	0	0	31	170	1	1	203	2	2	2	1	7	486
8:30 AM	0	229	41	0	270	0	0	0	0	0	28	157	0	0	185	1	4	2	0	7	462
8:45 AM	0	244	45	0	289	0	0	0	0	0	31	183	0	0	214	4	1	1	0	6	509
Total	6	969	166	0	1141	0	0	0	0	0	132	690	1	1	824	7	10	5	1	23	1988
Grand Total	13	2042	288	1	2344	0	0	0	0	0	230	1326	1	1	1558	14	13	14	1	42	3944
Approach %	0.6	87.1	12.3	0.0		0.0	0.0	0.0	0.0		14.8	85.1	0.1	0.1		33.3	31.0	33.3	2.4		
Total %	0.3	51.8	7.3	0.0	59.4	0.0	0.0	0.0	0.0	0.0	5.8	33.6	0.0	0.0	39.5	0.4	0.3	0.4	0.0	1.1	
Exiting Leg Total	1341					531					2057					15					3944
Cars	12	1935	278	1	2226	0	0	0	0	0	226	1213	1	1	1441	14	13	13	0	40	3707
% Cars	92.3	94.8	96.5	100.0	95.0	0.0	0.0	0.0	0.0	0.0	98.3	91.5	100.0	100.0	92.5	100.0	100.0	92.9	0.0	95.2	94.0
Exiting Leg Total	1227					517					1950					13					3707
Heavy Vehicles	1	107	10	0	118	0	0	0	0	0	4	113	0	0	117	0	0	1	1	2	237
% Heavy Vehicles	7.7	5.2	3.5	0.0	5.0	0.0	0.0	0.0	0.0	0.0	1.7	8.5	0.0	0.0	7.5	0.0	0.0	7.1	100.0	4.8	6.0
Exiting Leg Total	114					14					107					2					237

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	284	32	0	316	0	0	0	0	0	23	172	0	0	195	2	1	4	0	7	518
7:30 AM	1	262	24	0	287	0	0	0	0	0	26	178	0	0	204	3	1	0	0	4	495
7:45 AM	4	256	33	1	294	0	0	0	0	0	38	185	0	0	223	0	1	0	0	1	518
8:00 AM	3	268	35	0	306	0	0	0	0	0	42	180	0	0	222	0	3	0	0	3	531
Total Volume	8	1070	124	1	1203	0	0	0	0	0	129	715	0	0	844	5	6	4	0	15	2062
% Approach Total	0.7	88.9	10.3	0.1		0.0	0.0	0.0	0.0		15.3	84.7	0.0	0.0		33.3	40.0	26.7	0.0		
PHF	0.500	0.942	0.886	0.250	0.952	0.000	0.000	0.000	0.000	0.000	0.768	0.966	0.000	0.000	0.946	0.417	0.500	0.250	0.000	0.536	0.971
Cars	7	1016	121	1	1145	0	0	0	0	0	127	655	0	0	782	5	6	4	0	15	1942
Cars %	87.5	95.0	97.6	100.0	95.2	0.0	0.0	0.0	0.0	0.0	98.4	91.6	0.0	0.0	92.7	100.0	100.0	100.0	0.0	100.0	94.2
Heavy Vehicles	1	54	3	0	58	0	0	0	0	0	2	60	0	0	62	0	0	0	0	0	120
Heavy Vehicles %	12.5	5.0	2.4	0.0	4.8	0.0	0.0	0.0	0.0	0.0	1.6	8.4	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	5.8
Cars Enter Leg	7	1016	121	1	1145	0	0	0	0	0	127	655	0	0	782	5	6	4	0	15	1942
Heavy Enter Leg	1	54	3	0	58	0	0	0	0	0	2	60	0	0	62	0	0	0	0	0	120
Total Entering Leg	8	1070	124	1	1203	0	0	0	0	0	129	715	0	0	844	5	6	4	0	15	2062
Cars Exiting Leg	660					254					1021					7					1942
Heavy Exiting Leg	60					5					54					1					120
Total Exiting Leg	720					259					1075					8					2062

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	2	260	32	0	294	0	0	0	0	0	10	84	0	0	94	2	0	5	0	7	395
7:15 AM	0	268	31	0	299	0	0	0	0	0	22	157	0	0	179	2	1	4	0	7	485
7:30 AM	1	250	23	0	274	0	0	0	0	0	26	164	0	0	190	3	1	0	0	4	468
7:45 AM	3	242	32	1	278	0	0	0	0	0	37	171	0	0	208	0	1	0	0	1	487
Total	6	1020	118	1	1145	0	0	0	0	0	95	576	0	0	671	7	3	9	0	19	1835
8:00 AM	3	256	35	0	294	0	0	0	0	0	42	163	0	0	205	0	3	0	0	3	502
8:15 AM	3	215	43	0	261	0	0	0	0	0	31	155	1	1	188	2	2	1	0	5	454
8:30 AM	0	215	38	0	253	0	0	0	0	0	28	147	0	0	175	1	4	2	0	7	435
8:45 AM	0	229	44	0	273	0	0	0	0	0	30	172	0	0	202	4	1	1	0	6	481
Total	6	915	160	0	1081	0	0	0	0	0	131	637	1	1	770	7	10	4	0	21	1872
Grand Total	12	1935	278	1	2226	0	0	0	0	0	226	1213	1	1	1441	14	13	13	0	40	3707
Approach %	0.5	86.9	12.5	0.0		0.0	0.0	0.0	0.0		15.7	84.2	0.1	0.1		35.0	32.5	32.5	0.0		
Total %	0.3	52.2	7.5	0.0	60.0	0.0	0.0	0.0	0.0	0.0	6.1	32.7	0.0	0.0	38.9	0.4	0.4	0.4	0.0	1.1	
Exiting Leg Total	1227					517					1950					13					3707

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	268	31	0	299	0	0	0	0	0	22	157	0	0	179	2	1	4	0	7	485
7:30 AM	1	250	23	0	274	0	0	0	0	0	26	164	0	0	190	3	1	0	0	4	468
7:45 AM	3	242	32	1	278	0	0	0	0	0	37	171	0	0	208	0	1	0	0	1	487
8:00 AM	3	256	35	0	294	0	0	0	0	0	42	163	0	0	205	0	3	0	0	3	502
Total Volume	7	1016	121	1	1145	0	0	0	0	0	127	655	0	0	782	5	6	4	0	15	1942
% Approach Total	0.6	88.7	10.6	0.1		0.0	0.0	0.0	0.0		16.2	83.8	0.0	0.0		33.3	40.0	26.7	0.0		
PHF	0.583	0.948	0.864	0.250	0.957	0.000	0.000	0.000	0.000	0.000	0.756	0.958	0.000	0.000	0.940	0.417	0.500	0.250	0.000	0.536	0.967
Entering Leg	7	1016	121	1	1145	0	0	0	0	0	127	655	0	0	782	5	6	4	0	15	1942
Exiting Leg	660					254					1021					7					1942
Total	1805					254					1803					22					3884

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	11	1	0	12	0	0	0	0	0	1	17	0	0	18	0	0	0	0	0	30
7:15 AM	0	16	1	0	17	0	0	0	0	0	1	15	0	0	16	0	0	0	0	0	33
7:30 AM	0	12	1	0	13	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	27
7:45 AM	1	14	1	0	16	0	0	0	0	0	1	14	0	0	15	0	0	0	0	0	31
Total	1	53	4	0	58	0	0	0	0	0	3	60	0	0	63	0	0	0	0	0	121
8:00 AM	0	12	0	0	12	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	29
8:15 AM	0	13	2	0	15	0	0	0	0	0	0	15	0	0	15	0	0	1	1	2	32
8:30 AM	0	14	3	0	17	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	27
8:45 AM	0	15	1	0	16	0	0	0	0	0	1	11	0	0	12	0	0	0	0	0	28
Total	0	54	6	0	60	0	0	0	0	0	1	53	0	0	54	0	0	1	1	2	116
Grand Total	1	107	10	0	118	0	0	0	0	0	4	113	0	0	117	0	0	1	1	2	237
Approach %	0.8	90.7	8.5	0.0		0.0	0.0	0.0	0.0		3.4	96.6	0.0	0.0		0.0	0.0	50.0	50.0		
Total %	0.4	45.1	4.2	0.0	49.8	0.0	0.0	0.0	0.0	0.0	1.7	47.7	0.0	0.0	49.4	0.0	0.0	0.4	0.4	0.8	
Exiting Leg Total	114					14					107					2					237
Large Trucks	1	70	6	0	77	0	0	0	0	0	3	68	0	0	71	0	0	1	1	2	150
% Large Trucks	100.0	65.4	60.0	0.0	65.3	0.0	0.0	0.0	0.0	0.0	75.0	60.2	0.0	0.0	60.7	0.0	0.0	100.0	100.0	100.0	63.3
Exiting Leg Total	69					9					70					2					150
Buses	0	37	4	0	41	0	0	0	0	0	1	45	0	0	46	0	0	0	0	0	87
% Buses	0.0	34.6	40.0	0.0	34.7	0.0	0.0	0.0	0.0	0.0	25.0	39.8	0.0	0.0	39.3	0.0	0.0	0.0	0.0	0.0	36.7
Exiting Leg Total	45					5					37					0					87

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	11	1	0	12	0	0	0	0	0	1	17	0	0	18	0	0	0	0	0	30
7:15 AM	0	16	1	0	17	0	0	0	0	0	1	15	0	0	16	0	0	0	0	0	33
7:30 AM	0	12	1	0	13	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	27
7:45 AM	1	14	1	0	16	0	0	0	0	0	1	14	0	0	15	0	0	0	0	0	31
Total Volume	1	53	4	0	58	0	0	0	0	0	3	60	0	0	63	0	0	0	0	0	121
% Approach Total	1.7	91.4	6.9	0.0		0.0	0.0	0.0	0.0		4.8	95.2	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.828	1.000	0.000	0.853	0.000	0.000	0.000	0.000	0.000	0.750	0.882	0.000	0.000	0.875	0.000	0.000	0.000	0.000	0.000	0.917
Large Trucks	1	32	3	0	36	0	0	0	0	0	2	36	0	0	38	0	0	0	0	0	74
Large Trucks %	100.0	60.4	75.0	0.0	62.1	0.0	0.0	0.0	0.0	0.0	66.7	60.0	0.0	0.0	60.3	0.0	0.0	0.0	0.0	0.0	61.2
Buses	0	21	1	0	22	0	0	0	0	0	1	24	0	0	25	0	0	0	0	0	47
Buses %	0.0	39.6	25.0	0.0	37.9	0.0	0.0	0.0	0.0	0.0	33.3	40.0	0.0	0.0	39.7	0.0	0.0	0.0	0.0	0.0	38.8
Trucks Enter Leg	1	32	3	0	36	0	0	0	0	0	2	36	0	0	38	0	0	0	0	0	74
Bus Enter Leg	0	21	1	0	22	0	0	0	0	0	1	24	0	0	25	0	0	0	0	0	47
Total Entering Leg	1	53	4	0	58	0	0	0	0	0	3	60	0	0	63	0	0	0	0	0	121
Trucks Exiting Leg	36					5					32					1					74
Buses Exiting Leg	24					2					21					0					47
Total Exiting Leg	60					7					53					1					121

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class: **Large Trucks**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	7	1	0	8	0	0	0	0	0	1	12	0	0	13	0	0	0	0	0	21
7:15 AM	0	11	0	0	11	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	19
7:30 AM	0	6	1	0	7	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	15
7:45 AM	1	8	1	0	10	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	19
Total	1	32	3	0	36	0	0	0	0	0	2	36	0	0	38	0	0	0	0	0	74
8:00 AM	0	8	0	0	8	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	19
8:15 AM	0	9	2	0	11	0	0	0	0	0	0	8	0	0	8	0	0	1	1	2	21
8:30 AM	0	10	1	0	11	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	19
8:45 AM	0	11	0	0	11	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	17
Total	0	38	3	0	41	0	0	0	0	0	1	32	0	0	33	0	0	1	1	2	76
Grand Total	1	70	6	0	77	0	0	0	0	0	3	68	0	0	71	0	0	1	1	2	150
Approach %	1.3	90.9	7.8	0.0		0.0	0.0	0.0	0.0		4.2	95.8	0.0	0.0		0.0	0.0	50.0	50.0		
Total %	0.7	46.7	4.0	0.0	51.3	0.0	0.0	0.0	0.0	0.0	2.0	45.3	0.0	0.0	47.3	0.0	0.0	0.7	0.7	1.3	
Exiting Leg Total	69					9					70					2					150

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	1	8	1	0	10	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	19
7:45 AM	1	8	1	0	10	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	19
8:00 AM	0	8	0	0	8	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	19
8:15 AM	0	9	2	0	11	0	0	0	0	0	0	8	0	0	8	0	0	1	1	2	21
8:30 AM	0	10	1	0	11	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	19
Total Volume	1	35	4	0	40	0	0	0	0	0	0	36	0	0	36	0	0	1	1	2	78
% Approach Total	2.5	87.5	10.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	50.0	50.0		
PHF	0.250	0.875	0.500	0.000	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.818	0.000	0.000	0.818	0.000	0.000	0.250	0.250	0.250	0.929
Entering Leg	1	35	4	0	40	0	0	0	0	0	0	36	0	0	36	0	0	1	1	2	78
Exiting Leg	37					4					35					2					78
Total	77					4					71					4					156

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	9	
7:15 AM	0	5	1	0	6	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	14	
7:30 AM	0	6	0	0	6	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	12	
7:45 AM	0	6	0	0	6	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	12	
Total	0	21	1	0	22	0	0	0	0	0	1	24	0	0	25	0	0	0	0	0	47	
8:00 AM	0	4	0	0	4	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	10	
8:15 AM	0	4	0	0	4	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	11	
8:30 AM	0	4	2	0	6	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	8	
8:45 AM	0	4	1	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11	
Total	0	16	3	0	19	0	0	0	0	0	0	21	0	0	21	0	0	0	0	0	40	
Grand Total	0	37	4	0	41	0	0	0	0	0	1	45	0	0	46	0	0	0	0	0	87	
Approach %	0.0	90.2	9.8	0.0		0.0	0.0	0.0	0.0		2.2	97.8	0.0	0.0		0.0	0.0	0.0	0.0			
Total %	0.0	42.5	4.6	0.0	47.1	0.0	0.0	0.0	0.0	0.0	1.1	51.7	0.0	0.0	52.9	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total						45					5					37					0	87

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:15 AM	0	5	1	0	6	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	14	
7:30 AM	0	6	0	0	6	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	12	
7:45 AM	0	6	0	0	6	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	12	
8:00 AM	0	4	0	0	4	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	10	
Total Volume	0	21	1	0	22	0	0	0	0	0	1	25	0	0	26	0	0	0	0	0	48	
% Approach Total	0.0	95.5	4.5	0.0		0.0	0.0	0.0	0.0		3.8	96.2	0.0	0.0		0.0	0.0	0.0	0.0			
PHF	0.000	0.875	0.250	0.000	0.917	0.000	0.000	0.000	0.000	0.000	0.250	0.781	0.000	0.000	0.813	0.000	0.000	0.000	0.000	0.000	0.857	
Entering Leg	0	21	1	0	22	0	0	0	0	0	1	25	0	0	26	0	0	0	0	0	48	
Exiting Leg						25					2					21					0	48
Total						47					2					47					0	96

PDI File #: 175971 F
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Russell Street W: Cogswell Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

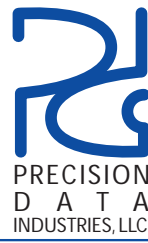
Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	6	0	0	0	0	6	0	0	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	8
7:15 AM	0	12	0	0	0	0	12	0	0	0	0	0	1	1	0	2	0	0	0	0	2	0	0	0	0	0	0	0	15
7:30 AM	0	16	0	0	0	0	16	0	0	0	0	0	0	0	2	6	0	0	0	0	8	1	0	0	0	0	0	1	25
7:45 AM	0	11	1	0	0	0	12	0	0	0	0	1	0	1	0	5	0	0	0	0	5	2	0	0	0	0	0	2	20
Total	0	45	1	0	0	0	46	0	0	0	0	2	1	3	2	14	0	0	0	0	16	3	0	0	0	0	0	3	68
8:00 AM	0	19	1	0	0	0	20	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	1	22
8:15 AM	0	27	0	0	0	0	27	0	0	0	0	0	0	0	1	9	0	0	0	0	10	0	1	0	0	0	0	1	38
8:30 AM	0	24	0	0	0	0	24	0	0	0	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0	1	27
8:45 AM	1	10	0	0	0	0	11	0	0	0	0	0	0	0	0	5	0	0	0	0	5	1	0	0	0	0	0	1	17
Total	1	80	1	0	0	0	82	0	0	0	0	0	0	0	2	16	0	0	0	0	18	2	2	0	0	0	0	4	104
Grand Total	1	125	2	0	0	0	128	0	0	0	0	2	1	3	4	30	0	0	0	0	34	5	2	0	0	0	0	7	172
Approach %	0.8	97.7	1.6	0.0	0.0	0.0		0.0	0.0	0.0	0.0	66.7	33.3		11.8	88.2	0.0	0.0	0.0	0.0		71.4	28.6	0.0	0.0	0.0	0.0		
Total %	0.6	72.7	1.2	0.0	0.0	0.0	74.4	0.0	0.0	0.0	0.0	1.2	0.6	1.7	2.3	17.4	0.0	0.0	0.0	0.0	19.8	2.9	1.2	0.0	0.0	0.0	0.0	4.1	
Exiting Leg Total	30							11							130							1	172						

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:45 AM	0	11	1	0	0	0	12	0	0	0	0	1	0	1	0	5	0	0	0	0	5	2	0	0	0	0	0	2	20
8:00 AM	0	19	1	0	0	0	20	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	1	22
8:15 AM	0	27	0	0	0	0	27	0	0	0	0	0	0	0	1	9	0	0	0	0	10	0	1	0	0	0	0	1	38
8:30 AM	0	24	0	0	0	0	24	0	0	0	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0	1	27
Total Volume	0	81	2	0	0	0	83	0	0	0	0	1	0	1	2	16	0	0	0	0	18	3	2	0	0	0	0	5	107
% Approach Total	0.0	97.6	2.4	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0	0.0		11.1	88.9	0.0	0.0	0.0	0.0		60.0	40.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.750	0.500	0.000	0.000	0.000	0.769	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.500	0.444	0.000	0.000	0.000	0.000	0.450	0.375	0.500	0.000	0.000	0.000	0.000	0.625	0.704
Entering Leg	0	81	2	0	0	0	83	0	0	0	0	1	0	1	2	16	0	0	0	0	18	3	2	0	0	0	0	5	107
Exiting Leg	16							7							84							0	107						
Total	99							8							102							5	214						

PDI File #: 175971 F
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Russell Street W: Cogswell Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	1	0	1	0	0	0	0	2	2	4	0	0	0	0	1	0	1	0	0	0	0	5	5	10	16
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	4	6	10	0	0	0	0	0	0	0	0	0	0	0	3	6	9	19
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	3	6	9	0	0	0	0	1	0	1	0	0	0	0	6	11	17	27
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	7	4	11	0	0	0	0	0	0	0	0	0	0	0	5	8	13	24
Total	0	0	0	0	1	0	1	0	0	0	0	16	18	34	0	0	0	0	2	0	2	0	0	0	0	19	30	49	86
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	10	5	15	0	0	0	0	0	0	0	0	0	0	0	3	12	15	30
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	5	4	9	0	0	0	0	0	0	0	0	0	0	0	2	10	12	21
8:30 AM	0	0	0	0	1	0	1	0	0	0	0	6	8	14	0	0	0	0	0	0	0	0	0	0	0	8	22	30	45
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	7	7	14	0	0	0	0	0	2	2	0	0	0	0	5	13	18	34
Total	0	0	0	0	1	0	1	0	0	0	0	28	24	52	0	0	0	0	0	2	2	0	0	0	0	18	57	75	130
Grand Total	0	0	0	0	2	0	2	0	0	0	0	44	42	86	0	0	0	0	2	2	4	0	0	0	0	37	87	124	216
Approach %	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	51.2	48.8	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	29.8	70.2	0.0				
Total %	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	20.4	19.4	39.8	0.0	0.0	0.0	0.0	0.9	0.9	1.9	0.0	0.0	0.0	0.0	17.1	40.3	57.4	
Exiting Leg Total	2							86							4							124							216

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	10	5	15	0	0	0	0	0	0	0	0	0	0	0	3	12	15	30
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	5	4	9	0	0	0	0	0	0	0	0	0	0	0	2	10	12	21
8:30 AM	0	0	0	0	1	0	1	0	0	0	0	6	8	14	0	0	0	0	0	0	0	0	0	0	0	8	22	30	45
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	7	7	14	0	0	0	0	0	2	2	0	0	0	0	5	13	18	34
Total Volume	0	0	0	0	1	0	1	0	0	0	0	28	24	52	0	0	0	0	0	2	2	0	0	0	0	18	57	75	130
% Approach Total	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	53.8	46.2	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	24.0	76.0	0.0				
PHF	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.700	0.750	0.867	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.563	0.648	0.625	0.722
Entering Leg	0	0	0	0	1	0	1	0	0	0	0	28	24	52	0	0	0	0	0	2	2	0	0	0	0	18	57	75	130
Exiting Leg	1							52							2							75							130
Total	2							104							4							150							260

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	1	134	39	0	174	0	0	0	0	0	32	267	0	0	299	2	9	8	0	19	492
4:15 PM	1	140	38	1	180	0	0	0	0	0	30	297	0	1	328	1	18	14	0	33	541
4:30 PM	0	155	57	0	212	0	0	0	0	0	45	265	0	0	310	8	22	19	0	49	571
4:45 PM	1	185	50	0	236	0	0	0	0	0	42	261	0	0	303	3	10	11	0	24	563
Total	3	614	184	1	802	0	0	0	0	0	149	1090	0	1	1240	14	59	52	0	125	2167
5:00 PM	2	159	58	1	220	0	0	2	0	2	39	301	0	0	340	1	15	10	0	26	588
5:15 PM	0	162	50	0	212	0	0	0	0	0	29	287	0	0	316	4	22	14	0	40	568
5:30 PM	0	192	47	0	239	0	0	0	0	0	42	276	0	0	318	1	15	7	0	23	580
5:45 PM	0	200	55	1	256	0	0	0	0	0	31	257	1	0	289	2	18	13	0	33	578
Total	2	713	210	2	927	0	0	2	0	2	141	1121	1	0	1263	8	70	44	0	122	2314
Grand Total	5	1327	394	3	1729	0	0	2	0	2	290	2211	1	1	2503	22	129	96	0	247	4481
Approach %	0.3	76.7	22.8	0.2		0.0	0.0	100.0	0.0		11.6	88.3	0.0	0.0		8.9	52.2	38.9	0.0		
Total %	0.1	29.6	8.8	0.1	38.6	0.0	0.0	0.0	0.0	0.0	6.5	49.3	0.0	0.0	55.9	0.5	2.9	2.1	0.0	5.5	
Exiting Leg Total	2310					813					1352					6					4481
Cars	4	1282	391	3	1680	0	0	2	0	2	289	2159	1	1	2450	21	127	96	0	244	4376
% Cars	80.0	96.6	99.2	100.0	97.2	0.0	0.0	100.0	0.0	100.0	99.7	97.6	100.0	100.0	97.9	95.5	98.4	100.0	0.0	98.8	97.7
Exiting Leg Total	2258					807					1306					5					4376
Heavy Vehicles	1	45	3	0	49	0	0	0	0	0	1	52	0	0	53	1	2	0	0	3	105
% Heavy Vehicles	20.0	3.4	0.8	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.3	2.4	0.0	0.0	2.1	4.5	1.6	0.0	0.0	1.2	2.3
Exiting Leg Total	52					6					46					1					105

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	2	159	58	1	220	0	0	2	0	2	39	301	0	0	340	1	15	10	0	26	588
5:15 PM	0	162	50	0	212	0	0	0	0	0	29	287	0	0	316	4	22	14	0	40	568
5:30 PM	0	192	47	0	239	0	0	0	0	0	42	276	0	0	318	1	15	7	0	23	580
5:45 PM	0	200	55	1	256	0	0	0	0	0	31	257	1	0	289	2	18	13	0	33	578
Total Volume	2	713	210	2	927	0	0	2	0	2	141	1121	1	0	1263	8	70	44	0	122	2314
% Approach Total	0.2	76.9	22.7	0.2		0.0	0.0	100.0	0.0		11.2	88.8	0.1	0.0		6.6	57.4	36.1	0.0		
PHF	0.250	0.891	0.905	0.500	0.905	0.000	0.000	0.250	0.000	0.250	0.839	0.931	0.250	0.000	0.929	0.500	0.795	0.786	0.000	0.763	0.984
Cars	2	696	208	2	908	0	0	2	0	2	141	1096	1	0	1238	8	68	44	0	120	2268
Cars %	100.0	97.6	99.0	100.0	98.0	0.0	0.0	100.0	0.0	100.0	100.0	97.8	100.0	0.0	98.0	100.0	97.1	100.0	0.0	98.4	98.0
Heavy Vehicles	0	17	2	0	19	0	0	0	0	0	0	25	0	0	25	0	2	0	0	2	46
Heavy Vehicles %	0.0	2.4	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.0	0.0	2.9	0.0	0.0	1.6	2.0
Cars Enter Leg	2	696	208	2	908	0	0	2	0	2	141	1096	1	0	1238	8	68	44	0	120	2268
Heavy Enter Leg	0	17	2	0	19	0	0	0	0	0	0	25	0	0	25	0	2	0	0	2	46
Total Entering Leg	2	713	210	2	927	0	0	2	0	2	141	1121	1	0	1263	8	70	44	0	122	2314
Cars Exiting Leg	1142					417					706					3					2268
Heavy Exiting Leg	25					4					17					0					46
Total Exiting Leg	1167					421					723					3					2314

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	1	127	39	0	167	0	0	0	0	0	31	260	0	0	291	1	9	8	0	18	476
4:15 PM	1	132	38	1	172	0	0	0	0	0	30	290	0	1	321	1	18	14	0	33	526
4:30 PM	0	148	56	0	204	0	0	0	0	0	45	259	0	0	304	8	22	19	0	49	557
4:45 PM	0	179	50	0	229	0	0	0	0	0	42	254	0	0	296	3	10	11	0	24	549
Total	2	586	183	1	772	0	0	0	0	0	148	1063	0	1	1212	13	59	52	0	124	2108
5:00 PM	2	155	57	1	215	0	0	2	0	2	39	295	0	0	334	1	15	10	0	26	577
5:15 PM	0	159	50	0	209	0	0	0	0	0	29	278	0	0	307	4	22	14	0	40	556
5:30 PM	0	186	47	0	233	0	0	0	0	0	42	271	0	0	313	1	14	7	0	22	568
5:45 PM	0	196	54	1	251	0	0	0	0	0	31	252	1	0	284	2	17	13	0	32	567
Total	2	696	208	2	908	0	0	2	0	2	141	1096	1	0	1238	8	68	44	0	120	2268
Grand Total	4	1282	391	3	1680	0	0	2	0	2	289	2159	1	1	2450	21	127	96	0	244	4376
Approach %	0.2	76.3	23.3	0.2		0.0	0.0	100.0	0.0		11.8	88.1	0.0	0.0		8.6	52.0	39.3	0.0		
Total %	0.1	29.3	8.9	0.1	38.4	0.0	0.0	0.0	0.0	0.0	6.6	49.3	0.0	0.0	56.0	0.5	2.9	2.2	0.0	5.6	
Exiting Leg Total	2258					807					1306					5					4376

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	2	155	57	1	215	0	0	2	0	2	39	295	0	0	334	1	15	10	0	26	577
5:15 PM	0	159	50	0	209	0	0	0	0	0	29	278	0	0	307	4	22	14	0	40	556
5:30 PM	0	186	47	0	233	0	0	0	0	0	42	271	0	0	313	1	14	7	0	22	568
5:45 PM	0	196	54	1	251	0	0	0	0	0	31	252	1	0	284	2	17	13	0	32	567
Total Volume	2	696	208	2	908	0	0	2	0	2	141	1096	1	0	1238	8	68	44	0	120	2268
% Approach Total	0.2	76.7	22.9	0.2		0.0	0.0	100.0	0.0		11.4	88.5	0.1	0.0		6.7	56.7	36.7	0.0		
PHF	0.250	0.888	0.912	0.500	0.904	0.000	0.000	0.250	0.000	0.250	0.839	0.929	0.250	0.000	0.927	0.500	0.773	0.786	0.000	0.750	0.983
Entering Leg	2	696	208	2	908	0	0	2	0	2	141	1096	1	0	1238	8	68	44	0	120	2268
Exiting Leg	1142					417					706					3					2268
Total	2050					419					1944					123					4536

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class: **Heavy Vehicles (Combined-Large Trucks and Buses)**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	7	0	0	7	0	0	0	0	0	1	7	0	0	8	1	0	0	0	1	16
4:15 PM	0	8	0	0	8	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	15
4:30 PM	0	7	1	0	8	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	14
4:45 PM	1	6	0	0	7	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	14
Total	1	28	1	0	30	0	0	0	0	0	1	27	0	0	28	1	0	0	0	1	59
5:00 PM	0	4	1	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
5:15 PM	0	3	0	0	3	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	12
5:30 PM	0	6	0	0	6	0	0	0	0	0	0	5	0	0	5	0	1	0	0	1	12
5:45 PM	0	4	1	0	5	0	0	0	0	0	0	5	0	0	5	0	1	0	0	1	11
Total	0	17	2	0	19	0	0	0	0	0	0	25	0	0	25	0	2	0	0	2	46
Grand Total	1	45	3	0	49	0	0	0	0	0	1	52	0	0	53	1	2	0	0	3	105
Approach %	2.0	91.8	6.1	0.0		0.0	0.0	0.0	0.0		1.9	98.1	0.0	0.0		33.3	66.7	0.0	0.0		
Total %	1.0	42.9	2.9	0.0	46.7	0.0	0.0	0.0	0.0	0.0	1.0	49.5	0.0	0.0	50.5	1.0	1.9	0.0	0.0	2.9	
Exiting Leg Total	52					6					46					1					105
Large Trucks	1	15	1	0	17	0	0	0	0	0	1	19	0	0	20	1	2	0	0	3	40
% Large Trucks	100.0	33.3	33.3	0.0	34.7	0.0	0.0	0.0	0.0	0.0	100.0	36.5	0.0	0.0	37.7	100.0	100.0	0.0	0.0	100.0	38.1
Exiting Leg Total	19					4					16					1					40
Buses	0	30	2	0	32	0	0	0	0	0	0	33	0	0	33	0	0	0	0	0	65
% Buses	0.0	66.7	66.7	0.0	65.3	0.0	0.0	0.0	0.0	0.0	0.0	63.5	0.0	0.0	62.3	0.0	0.0	0.0	0.0	0.0	61.9
Exiting Leg Total	33					2					30					0					65

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	7	0	0	7	0	0	0	0	0	1	7	0	0	8	1	0	0	0	1	16
4:15 PM	0	8	0	0	8	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	15
4:30 PM	0	7	1	0	8	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	14
4:45 PM	1	6	0	0	7	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	14
Total Volume	1	28	1	0	30	0	0	0	0	0	1	27	0	0	28	1	0	0	0	1	59
% Approach Total	3.3	93.3	3.3	0.0		0.0	0.0	0.0	0.0		3.6	96.4	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.250	0.875	0.250	0.000	0.938	0.000	0.000	0.000	0.000	0.000	0.250	0.964	0.000	0.000	0.875	0.250	0.000	0.000	0.000	0.250	0.922
Large Trucks	1	9	0	0	10	0	0	0	0	0	1	9	0	0	10	1	0	0	0	1	21
Large Trucks %	100.0	32.1	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	100.0	33.3	0.0	0.0	35.7	100.0	0.0	0.0	0.0	100.0	35.6
Buses	0	19	1	0	20	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	38
Buses %	0.0	67.9	100.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	0.0	64.3	0.0	0.0	0.0	0.0	0.0	64.4
Trucks Enter Leg	1	9	0	0	10	0	0	0	0	0	1	9	0	0	10	1	0	0	0	1	21
Bus Enter Leg	0	19	1	0	20	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	38
Total Entering Leg	1	28	1	0	30	0	0	0	0	0	1	27	0	0	28	1	0	0	0	1	59
Trucks Exiting Leg	9					1					10					1					21
Buses Exiting Leg	18					1					19					0					38
Total Exiting Leg	27					2					29					1					59

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class: **Large Trucks**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	1	0	0	1	0	0	0	0	0	1	4	0	0	5	1	0	0	0	1	7
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
4:30 PM	0	4	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
4:45 PM	1	3	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
Total	1	9	0	0	10	0	0	0	0	0	1	9	0	0	10	1	0	0	0	1	21
5:00 PM	0	1	1	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
5:15 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
5:30 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	5
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	1	0	0	1	5
Total	0	6	1	0	7	0	0	0	0	0	0	10	0	0	10	0	2	0	0	2	19
Grand Total	1	15	1	0	17	0	0	0	0	0	1	19	0	0	20	1	2	0	0	3	40
Approach %	5.9	88.2	5.9	0.0		0.0	0.0	0.0	0.0		5.0	95.0	0.0	0.0		33.3	66.7	0.0	0.0		
Total %	2.5	37.5	2.5	0.0	42.5	0.0	0.0	0.0	0.0	0.0	2.5	47.5	0.0	0.0	50.0	2.5	5.0	0.0	0.0	7.5	
Exiting Leg Total	19					4					16					1					40

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	1	0	0	1	0	0	0	0	0	1	4	0	0	5	1	0	0	0	1	7
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
4:30 PM	0	4	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
4:45 PM	1	3	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
Total Volume	1	9	0	0	10	0	0	0	0	0	1	9	0	0	10	1	0	0	0	1	21
% Approach Total	10.0	90.0	0.0	0.0		0.0	0.0	0.0	0.0		10.0	90.0	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.250	0.563	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.250	0.563	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.250	0.750
Entering Leg	1	9	0	0	10	0	0	0	0	0	1	9	0	0	10	1	0	0	0	1	21
Exiting Leg																1					21
Total	19					1					20					2					42

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	6	0	0	6	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	9
4:15 PM	0	7	0	0	7	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	13
4:30 PM	0	3	1	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
4:45 PM	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	9
Total	0	19	1	0	20	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	38
5:00 PM	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	6
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	8
5:30 PM	0	4	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
5:45 PM	0	3	1	0	4	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	6
Total	0	11	1	0	12	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	27
Grand Total	0	30	2	0	32	0	0	0	0	0	0	33	0	0	33	0	0	0	0	0	65
Approach %	0.0	93.8	6.3	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	46.2	3.1	0.0	49.2	0.0	0.0	0.0	0.0	0.0	0.0	50.8	0.0	0.0	50.8	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	33					2					30					0					65

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	6	0	0	6	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	9
4:15 PM	0	7	0	0	7	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	13
4:30 PM	0	3	1	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
4:45 PM	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	9
Total Volume	0	19	1	0	20	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	38
% Approach Total	0.0	95.0	5.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.679	0.250	0.000	0.714	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.731
Entering Leg	0	19	1	0	20	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	38
Exiting Leg																1					38
Total	38					1					37					0					76

PDI File #: 175971 F
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Russell Street W: Cogswell Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	0	0	9
4:15 PM	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	9	0	0	0	0	9	0	0	0	0	0	0	0	11
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	4	0	0	0	0	4	0	0	0	0	0	0	0	5
4:45 PM	0	2	1	0	0	0	3	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	6
Total	1	4	1	0	0	0	6	1	0	0	0	0	1	2	0	23	0	0	0	0	23	0	0	0	0	0	0	0	31
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0	0	0	6
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	16	0	0	0	0	16	0	0	0	0	0	0	0	17
5:30 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	19	0	0	0	0	20	0	0	0	0	0	0	0	21
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16	0	0	0	0	17	0	0	0	0	0	0	0	17
Total	0	0	0	0	1	0	1	0	0	0	0	0	1	1	2	57	0	0	0	0	59	0	0	0	0	0	0	0	61
Grand Total	1	4	1	0	1	0	7	1	0	0	0	0	2	3	2	80	0	0	0	0	82	0	0	0	0	0	0	0	92
Approach %	14.3	57.1	14.3	0.0	14.3	0.0		33.3	0.0	0.0	0.0	0.0	66.7		2.4	97.6	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
Total %	1.1	4.3	1.1	0.0	1.1	0.0	7.6	1.1	0.0	0.0	0.0	0.0	2.2	3.3	2.2	87.0	0.0	0.0	0.0	0.0	89.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	82							5							4							1	92						

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0	0	0	6
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	16	0	0	0	0	16	0	0	0	0	0	0	0	17
5:30 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	19	0	0	0	0	20	0	0	0	0	0	0	0	21
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16	0	0	0	0	17	0	0	0	0	0	0	0	17
Total Volume	0	0	0	0	1	0	1	0	0	0	0	0	1	1	2	57	0	0	0	0	59	0	0	0	0	0	0	0	61
% Approach Total	0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		3.4	96.6	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.500	0.750	0.000	0.000	0.000	0.000	0.738	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.726
Entering Leg	0	0	0	0	1	0	1	0	0	0	0	0	1	1	2	57	0	0	0	0	59	0	0	0	0	0	0	0	61
Exiting Leg	58							3							0							0	61						
Total	59							4							59							0	122						

PDI File #: 175971 F
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Russell Street W: Cogswell Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)								Russell Street								Massachusetts Ave (Rt 2A)								Cogswell Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	0	0	0	1	1	0	0	0	0	3	2	5	0	0	0	0	0	0	0	0	0	0	0	0	4	11	15	21			
4:15 PM	0	0	0	0	1	0	1	0	0	0	0	4	10	14	0	0	0	0	1	0	1	0	0	0	0	9	5	14	30				
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	6	9	15	0	0	0	0	0	0	0	0	0	0	0	8	6	14	29				
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	10	15	0	0	0	0	0	1	1	0	0	0	0	7	4	11	27				
Total	0	0	0	0	1	1	2	0	0	0	0	18	31	49	0	0	0	0	1	1	2	0	0	0	0	28	26	54	107				
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	7	13	20	0	0	0	0	1	0	1	0	0	0	0	5	5	10	31				
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	11	12	23	0	0	0	0	1	0	1	0	0	0	0	12	8	20	44				
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	6	7	13	0	0	0	0	0	0	0	0	0	0	0	12	2	14	27				
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	12	17	0	0	0	0	0	0	0	0	0	0	0	15	5	20	37				
Total	0	0	0	0	0	0	0	0	0	0	0	29	44	73	0	0	0	0	2	0	2	0	0	0	44	20	64	139					
Grand Total	0	0	0	0	1	1	2	0	0	0	0	47	75	122	0	0	0	0	3	1	4	0	0	0	0	72	46	118	246				
Approach %	0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	38.5	61.5		0.0	0.0	0.0	0.0	75.0	25.0		0.0	0.0	0.0	0.0	61.0	39.0						
Total %	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.0	0.0	0.0	0.0	19.1	30.5	49.6	0.0	0.0	0.0	0.0	1.2	0.4	1.6	0.0	0.0	0.0	0.0	29.3	18.7	48.0					
Exiting Leg Total	2							122							4							118							246				

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)								Russell Street								Massachusetts Ave (Rt 2A)								Cogswell Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	7	13	20	0	0	0	0	1	0	1	0	0	0	0	5	5	10	31				
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	11	12	23	0	0	0	0	1	0	1	0	0	0	0	12	8	20	44				
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	6	7	13	0	0	0	0	0	0	0	0	0	0	0	12	2	14	27				
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	12	17	0	0	0	0	0	0	0	0	0	0	0	15	5	20	37				
Total Volume	0	0	0	0	0	0	0	0	0	0	0	29	44	73	0	0	0	0	2	0	2	0	0	0	44	20	64	139					
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	39.7	60.3		0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	68.8	31.3						
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.846	0.793	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.733	0.625	0.800	0.790				
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	29	44	73	0	0	0	0	2	0	2	0	0	0	44	20	64	139					
Exiting Leg	0							73							2							64							139				
Total	0							146							4							128							278				

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	6	174	55	1	236	0	0	0	0	0	18	193	0	0	211	5	0	1	0	6	453
11:15 AM	3	134	41	0	178	0	0	0	0	0	20	183	1	0	204	1	1	3	0	5	387
11:30 AM	2	161	47	1	211	0	0	0	1	1	25	195	1	0	221	0	0	5	0	5	438
11:45 AM	6	172	61	0	239	0	0	0	0	0	36	191	0	0	227	3	1	0	0	4	470
Total	17	641	204	2	864	0	0	0	1	1	99	762	2	0	863	9	2	9	0	20	1748
12:00 PM	2	156	43	1	202	0	0	0	0	0	33	205	1	0	239	2	3	2	0	7	448
12:15 PM	0	183	52	0	235	0	0	0	0	0	25	225	0	0	250	3	0	3	0	6	491
12:30 PM	2	170	61	1	234	0	0	0	0	0	41	185	0	1	227	1	0	2	0	3	464
12:45 PM	4	164	52	0	220	0	0	0	0	0	41	199	0	0	240	0	2	3	0	5	465
Total	8	673	208	2	891	0	0	0	0	0	140	814	1	1	956	6	5	10	0	21	1868
1:00 PM	1	166	56	0	223	0	0	0	0	0	30	217	0	0	247	2	2	3	0	7	477
1:15 PM	2	161	54	0	217	0	0	0	0	0	30	209	0	0	239	2	0	1	0	3	459
1:30 PM	2	167	42	1	212	0	0	0	0	0	33	196	0	0	229	5	0	3	0	8	449
1:45 PM	3	183	53	0	239	0	0	0	0	0	24	239	0	0	263	3	1	2	0	6	508
Total	8	677	205	1	891	0	0	0	0	0	117	861	0	0	978	12	3	9	0	24	1893
Grand Total	33	1991	617	5	2646	0	0	0	1	1	356	2437	3	1	2797	27	10	28	0	65	5509
Approach %	1.2	75.2	23.3	0.2		0.0	0.0	0.0	100.0		12.7	87.1	0.1	0.0		41.5	15.4	43.1	0.0		
Total %	0.6	36.1	11.2	0.1	48.0	0.0	0.0	0.0	0.0	0.0	6.5	44.2	0.1	0.0	50.8	0.5	0.2	0.5	0.0	1.2	
Exiting Leg Total	2470					984					2019					36					5509
Cars	33	1936	613	4	2586	0	0	0	1	1	351	2369	3	1	2724	27	10	26	0	63	5374
% Cars	100.0	97.2	99.4	80.0	97.7	0.0	0.0	0.0	100.0	100.0	98.6	97.2	100.0	100.0	97.4	100.0	100.0	92.9	0.0	96.9	97.5
Exiting Leg Total	2399					975					1964					36					5374
Heavy Vehicles	0	55	4	1	60	0	0	0	0	0	5	68	0	0	73	0	0	2	0	2	135
% Heavy Vehicles	0.0	2.8	0.6	20.0	2.3	0.0	0.0	0.0	0.0	0.0	1.4	2.8	0.0	0.0	2.6	0.0	0.0	7.1	0.0	3.1	2.5
Exiting Leg Total	71					9					55					0					135

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	0	183	52	0	235	0	0	0	0	0	25	225	0	0	250	3	0	3	0	6	491
12:30 PM	2	170	61	1	234	0	0	0	0	0	41	185	0	1	227	1	0	2	0	3	464
12:45 PM	4	164	52	0	220	0	0	0	0	0	41	199	0	0	240	0	2	3	0	5	465
1:00 PM	1	166	56	0	223	0	0	0	0	0	30	217	0	0	247	2	2	3	0	7	477
Total Volume	7	683	221	1	912	0	0	0	0	0	137	826	0	1	964	6	4	11	0	21	1897
% Approach Total	0.8	74.9	24.2	0.1		0.0	0.0	0.0	0.0		14.2	85.7	0.0	0.1		28.6	19.0	52.4	0.0		
PHF	0.438	0.933	0.906	0.250	0.970	0.000	0.000	0.000	0.000	0.000	0.835	0.918	0.000	0.250	0.964	0.500	0.500	0.917	0.000	0.750	0.966
Cars	7	665	220	1	893	0	0	0	0	0	134	798	0	1	933	6	4	11	0	21	1847
Cars %	100.0	97.4	99.5	100.0	97.9	0.0	0.0	0.0	0.0	0.0	97.8	96.6	0.0	100.0	96.8	100.0	100.0	100.0	0.0	100.0	97.4
Heavy Vehicles	0	18	1	0	19	0	0	0	0	0	3	28	0	0	31	0	0	0	0	0	50
Heavy Vehicles %	0.0	2.6	0.5	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.2	3.4	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	2.6
Cars Enter Leg	7	665	220	1	893	0	0	0	0	0	134	798	0	1	933	6	4	11	0	21	1847
Heavy Enter Leg	0	18	1	0	19	0	0	0	0	0	3	28	0	0	31	0	0	0	0	0	50
Total Entering Leg	7	683	221	1	912	0	0	0	0	0	137	826	0	1	964	6	4	11	0	21	1897
Cars Exiting Leg	810					358					672					7					1847
Heavy Exiting Leg	28					4					18					0					50
Total Exiting Leg	838					362					690					7					1897

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	6	168	54	1	229	0	0	0	0	0	18	188	0	0	206	5	0	0	0	5	440
11:15 AM	3	131	41	0	175	0	0	0	0	0	20	181	1	0	202	1	1	3	0	5	382
11:30 AM	2	158	47	1	208	0	0	0	1	1	24	186	1	0	211	0	0	5	0	5	425
11:45 AM	6	166	61	0	233	0	0	0	0	0	36	184	0	0	220	3	1	0	0	4	457
Total	17	623	203	2	845	0	0	0	1	1	98	739	2	0	839	9	2	8	0	19	1704
12:00 PM	2	150	43	1	196	0	0	0	0	0	33	202	1	0	236	2	3	2	0	7	439
12:15 PM	0	176	52	0	228	0	0	0	0	0	25	221	0	0	246	3	0	3	0	6	480
12:30 PM	2	166	61	1	230	0	0	0	0	0	40	181	0	1	222	1	0	2	0	3	455
12:45 PM	4	163	52	0	219	0	0	0	0	0	40	187	0	0	227	0	2	3	0	5	451
Total	8	655	208	2	873	0	0	0	0	0	138	791	1	1	931	6	5	10	0	21	1825
1:00 PM	1	160	55	0	216	0	0	0	0	0	29	209	0	0	238	2	2	3	0	7	461
1:15 PM	2	156	54	0	212	0	0	0	0	0	30	205	0	0	235	2	0	1	0	3	450
1:30 PM	2	162	42	0	206	0	0	0	0	0	32	192	0	0	224	5	0	2	0	7	437
1:45 PM	3	180	51	0	234	0	0	0	0	0	24	233	0	0	257	3	1	2	0	6	497
Total	8	658	202	0	868	0	0	0	0	0	115	839	0	0	954	12	3	8	0	23	1845
Grand Total	33	1936	613	4	2586	0	0	0	1	1	351	2369	3	1	2724	27	10	26	0	63	5374
Approach %	1.3	74.9	23.7	0.2		0.0	0.0	0.0	100.0		12.9	87.0	0.1	0.0		42.9	15.9	41.3	0.0		
Total %	0.6	36.0	11.4	0.1	48.1	0.0	0.0	0.0	0.0	0.0	6.5	44.1	0.1	0.0	50.7	0.5	0.2	0.5	0.0	1.2	
Exiting Leg Total	2399					975					1964					36					5374

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:15 PM	0	176	52	0	228	0	0	0	0	0	25	221	0	0	246	3	0	3	0	6	480
12:30 PM	2	166	61	1	230	0	0	0	0	0	40	181	0	1	222	1	0	2	0	3	455
12:45 PM	4	163	52	0	219	0	0	0	0	0	40	187	0	0	227	0	2	3	0	5	451
1:00 PM	1	160	55	0	216	0	0	0	0	0	29	209	0	0	238	2	2	3	0	7	461
Total Volume	7	665	220	1	893	0	0	0	0	0	134	798	0	1	933	6	4	11	0	21	1847
% Approach Total	0.8	74.5	24.6	0.1		0.0	0.0	0.0	0.0		14.4	85.5	0.0	0.1		28.6	19.0	52.4	0.0		
PHF	0.438	0.945	0.902	0.250	0.971	0.000	0.000	0.000	0.000	0.000	0.838	0.903	0.000	0.250	0.948	0.500	0.500	0.917	0.000	0.750	0.962
Entering Leg	7	665	220	1	893	0	0	0	0	0	134	798	0	1	933	6	4	11	0	21	1847
Exiting Leg						358					672					7					1847
Total	1703					358					1605					28					3694

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	6	1	0	7	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	13
11:15 AM	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
11:30 AM	0	3	0	0	3	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	13
11:45 AM	0	6	0	0	6	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	13
Total	0	18	1	0	19	0	0	0	0	0	1	23	0	0	24	0	0	1	0	1	44
12:00 PM	0	6	0	0	6	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	9
12:15 PM	0	7	0	0	7	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	11
12:30 PM	0	4	0	0	4	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	9
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	12	0	0	13	0	0	0	0	0	14
Total	0	18	0	0	18	0	0	0	0	0	2	23	0	0	25	0	0	0	0	0	43
1:00 PM	0	6	1	0	7	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	16
1:15 PM	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	9
1:30 PM	0	5	0	1	6	0	0	0	0	0	1	4	0	0	5	0	0	1	0	1	12
1:45 PM	0	3	2	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
Total	0	19	3	1	23	0	0	0	0	0	2	22	0	0	24	0	0	1	0	1	48
Grand Total	0	55	4	1	60	0	0	0	0	0	5	68	0	0	73	0	0	2	0	2	135
Approach %	0.0	91.7	6.7	1.7		0.0	0.0	0.0	0.0	0.0	6.8	93.2	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	0.0	40.7	3.0	0.7	44.4	0.0	0.0	0.0	0.0	0.0	3.7	50.4	0.0	0.0	54.1	0.0	0.0	1.5	0.0	1.5	
Exiting Leg Total	71					9					55					0					135
Large Trucks	0	34	3	1	38	0	0	0	0	0	3	43	0	0	46	0	0	2	0	2	86
% Large Trucks	0.0	61.8	75.0	100.0	63.3	0.0	0.0	0.0	0.0	0.0	60.0	63.2	0.0	0.0	63.0	0.0	0.0	100.0	0.0	100.0	63.7
Exiting Leg Total	46					6					34					0					86
Buses	0	21	1	0	22	0	0	0	0	0	2	25	0	0	27	0	0	0	0	0	49
% Buses	0.0	38.2	25.0	0.0	36.7	0.0	0.0	0.0	0.0	0.0	40.0	36.8	0.0	0.0	37.0	0.0	0.0	0.0	0.0	0.0	36.3
Exiting Leg Total	25					3					21					0					49

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	12	0	0	13	0	0	0	0	0	14
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	16
1:00 PM	0	6	1	0	7	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	9
1:15 PM	0	5	0	0	5	0	0	0	0	0	1	4	0	0	5	0	0	1	0	1	12
1:30 PM	0	5	0	1	6	0	0	0	0	0	3	28	0	0	31	0	0	1	0	1	51
Total Volume	0	17	1	1	19	0	0	0	0	0	9.7	90.3	0.0	0.0		0.0	0.0	100.0	0.0		
% Approach Total	0.0	89.5	5.3	5.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.708	0.250	0.250	0.679	0.000	0.000	0.000	0.000	0.000	0.750	0.583	0.000	0.000	0.596	0.000	0.000	0.250	0.000	0.250	0.797
Large Trucks	0	12	0	1	13	0	0	0	0	0	3	19	0	0	22	0	0	1	0	1	36
Large Trucks %	0.0	70.6	0.0	100.0	68.4	0.0	0.0	0.0	0.0	0.0	100.0	67.9	0.0	0.0	71.0	0.0	0.0	100.0	0.0	100.0	70.6
Buses	0	5	1	0	6	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	15
Buses %	0.0	29.4	100.0	0.0	31.6	0.0	0.0	0.0	0.0	0.0	0.0	32.1	0.0	0.0	29.0	0.0	0.0	0.0	0.0	0.0	29.4
Trucks Enter Leg	0	12	0	1	13	0	0	0	0	0	3	19	0	0	22	0	0	1	0	1	36
Bus Enter Leg	0	5	1	0	6	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	15
Total Entering Leg	0	17	1	1	19	0	0	0	0	0	3	28	0	0	31	0	0	1	0	1	51
Trucks Exiting Leg	21					3					12					0					36
Buses Exiting Leg	9					1					5					0					15
Total Exiting Leg	30					4					17					0					51

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	3	1	0	4	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	7
11:15 AM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	7
11:45 AM	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	8
Total	0	10	1	0	11	0	0	0	0	0	0	14	0	0	14	0	0	1	0	1	26
12:00 PM	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	8
12:15 PM	0	5	0	0	5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	6
12:30 PM	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	10
Total	0	12	0	0	12	0	0	0	0	0	1	15	0	0	16	0	0	0	0	0	28
1:00 PM	0	5	0	0	5	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	13
1:15 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
1:30 PM	0	4	0	1	5	0	0	0	0	0	1	2	0	0	3	0	0	1	0	1	9
1:45 PM	0	1	2	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	6
Total	0	12	2	1	15	0	0	0	0	0	2	14	0	0	16	0	0	1	0	1	32
Grand Total	0	34	3	1	38	0	0	0	0	0	3	43	0	0	46	0	0	2	0	2	86
Approach %	0.0	89.5	7.9	2.6		0.0	0.0	0.0	0.0		6.5	93.5	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	0.0	39.5	3.5	1.2	44.2	0.0	0.0	0.0	0.0	0.0	3.5	50.0	0.0	0.0	53.5	0.0	0.0	2.3	0.0	2.3	
Exiting Leg Total	46					6					34					0					86

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:45 PM	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:45 PM	0	1	0	0	1	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	10
1:00 PM	0	5	0	0	5	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	13
1:15 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
1:30 PM	0	4	0	1	5	0	0	0	0	0	1	2	0	0	3	0	0	1	0	1	9
Total Volume	0	12	0	1	13	0	0	0	0	0	3	19	0	0	22	0	0	1	0	1	36
% Approach Total	0.0	92.3	0.0	7.7		0.0	0.0	0.0	0.0		13.6	86.4	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.000	0.600	0.000	0.250	0.650	0.000	0.000	0.000	0.000	0.000	0.750	0.594	0.000	0.000	0.611	0.000	0.000	0.250	0.000	0.250	0.692
Entering Leg	0	12	0	1	13	0	0	0	0	0	3	19	0	0	22	0	0	1	0	1	36
Exiting Leg	21					3					12					0					36
Total	34					3					34					1					72

PDI File #: **175971 F**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Russell Street W: Cogswell Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	6
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	1	0	0	1	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	6
11:45 AM	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
Total	0	8	0	0	8	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	18
12:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
12:30 PM	0	3	0	0	3	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	5
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	4
Total	0	6	0	0	6	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	15
1:00 PM	0	1	1	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
1:15 PM	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
1:30 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
1:45 PM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
Total	0	7	1	0	8	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	16
Grand Total	0	21	1	0	22	0	0	0	0	0	2	25	0	0	27	0	0	0	0	0	49
Approach %	0.0	95.5	4.5	0.0		0.0	0.0	0.0	0.0		7.4	92.6	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	42.9	2.0	0.0	44.9	0.0	0.0	0.0	0.0	0.0	4.1	51.0	0.0	0.0	55.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	25					3					21					0					49

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Massachusetts Ave (Rt 2A)					Russell Street					Massachusetts Ave (Rt 2A)					Cogswell Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	6
11:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	1	0	0	1	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	6
11:45 AM	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
Total Volume	0	8	0	0	8	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	18
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		10.0	90.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.667	0.000	0.000	0.667	0.000	0.000	0.000	0.000	0.000	0.250	0.563	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	8	0	0	8	0	0	0	0	0	1	9	0	0	10	0	0	0	0	0	18
Exiting Leg																9					18
Total	17					1					18					0					36

PDI File #: 175971 F
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Russell Street W: Cogswell Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	4	0	0	0	0	4	0	0	0	0	1	0	1	0	8	0	0	0	0	0	8	0	0	0	0	0	0	13
11:15 AM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	1	8	0	0	0	0	1	10	0	0	0	0	0	0	16
11:30 AM	0	3	0	0	0	0	3	0	0	0	0	0	1	1	1	15	0	0	0	0	0	16	0	0	0	0	0	1	21
11:45 AM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	10	0	0	0	0	1	11	0	0	0	0	0	0	17
Total	0	19	0	0	0	0	19	0	0	0	0	1	1	2	2	41	0	0	0	0	2	45	0	0	0	0	0	1	67
12:00 PM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11	0	0	0	0	0	0	17
12:15 PM	0	3	0	0	0	0	3	0	0	0	0	0	1	1	0	8	0	0	0	0	0	8	0	0	0	0	0	0	12
12:30 PM	0	5	0	0	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	9
12:45 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	7
Total	0	18	0	0	0	0	18	0	0	0	0	0	1	1	0	25	0	0	0	0	0	25	0	0	0	0	0	1	45
1:00 PM	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	9
1:15 PM	0	7	0	0	0	0	7	0	0	0	0	1	1	2	0	6	0	0	0	0	0	6	0	0	0	0	0	0	16
1:30 PM	0	2	0	0	0	0	2	0	0	0	0	0	1	1	0	4	0	0	0	0	0	4	0	0	0	0	0	0	7
1:45 PM	1	9	0	0	0	0	10	0	0	0	0	0	0	0	1	7	0	0	0	0	0	8	0	0	0	0	0	0	18
Total	1	22	0	0	0	0	24	0	0	0	0	1	2	3	1	22	0	0	0	0	0	23	0	0	0	0	0	0	50
Grand Total	1	59	0	0	0	0	61	0	0	0	0	2	4	6	3	88	0	0	0	0	2	93	0	0	0	0	0	2	162
Approach %	1.6	96.7	0.0	0.0	0.0	1.6		0.0	0.0	0.0	0.0	33.3	66.7		3.2	94.6	0.0	0.0	0.0	2.2			0.0	0.0	0.0	0.0	0.0	100.0	
Total %	0.6	36.4	0.0	0.0	0.0	0.6	37.7	0.0	0.0	0.0	0.0	1.2	2.5	3.7	1.9	54.3	0.0	0.0	0.0	1.2	57.4		0.0	0.0	0.0	0.0	0.0	1.2	1.2
Exiting Leg Total	89							9							61							3							162

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)							Russell Street							Massachusetts Ave (Rt 2A)							Cogswell Avenue							Total	
	from North							from East							from South							from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:15 AM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	1	8	0	0	0	0	1	10	0	0	0	0	0	0	16	
11:30 AM	0	3	0	0	0	0	3	0	0	0	0	0	1	1	1	15	0	0	0	0	0	16	0	0	0	0	0	1	21	
11:45 AM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	10	0	0	0	0	1	11	0	0	0	0	0	0	17	
12:00 PM	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11	0	0	0	0	0	0	17	
Total Volume	0	21	0	0	0	0	21	0	0	0	0	0	1	1	2	44	0	0	0	0	2	48	0	0	0	0	0	1	71	
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		4.2	91.7	0.0	0.0	0.0	4.2			0.0	0.0	0.0	0.0	0.0	100.0		
PHF	0.000	0.875	0.000	0.000	0.000	0.000	0.875	0.000	0.000	0.000	0.000	0.250	0.250		0.500	0.733	0.000	0.000	0.000	0.500	0.750		0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.845
Entering Leg	0	21	0	0	0	0	21	0	0	0	0	0	1	1	2	44	0	0	0	0	2	48	0	0	0	0	0	1	71	
Exiting Leg	44							3							23							1							71	
Total	65							4							71							2							142	

PDI File #: 175971 F
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Russell Street W: Cogswell Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)								Russell Street								Massachusetts Ave (Rt 2A)								Cogswell Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	13	7	20		0	0	0	0	0	3	3		0	0	0	0	8	12	20	43	
11:15 AM	0	0	0	0	0	2	2		0	0	0	0	10	4	14		0	0	0	0	1	1	2		0	0	0	0	10	12	22	40	
11:30 AM	0	0	0	0	0	0	0		0	0	0	0	12	15	27		0	0	0	0	0	0	0		0	0	0	0	14	15	29	56	
11:45 AM	0	0	0	0	1	0	1		0	0	0	0	12	10	22		0	0	0	0	1	2	3		0	0	0	0	9	19	28	54	
Total	0	0	0	0	1	2	3		0	0	0	0	47	36	83		0	0	0	0	2	6	8		0	0	0	0	41	58	99	193	
12:00 PM	0	0	0	0	2	0	2		0	0	0	0	8	9	17		0	0	0	0	0	2	2		0	0	0	0	13	14	27	48	
12:15 PM	0	0	0	0	0	1	1		0	0	0	0	9	6	15		0	0	0	0	0	1	1		0	0	0	0	12	14	26	43	
12:30 PM	0	0	0	0	1	1	2		0	0	0	0	11	12	23		0	0	0	0	6	0	6		0	0	0	0	8	14	22	53	
12:45 PM	0	0	0	0	0	0	0		0	0	0	0	8	14	22		0	0	0	0	2	0	2		0	0	0	0	11	15	26	50	
Total	0	0	0	0	3	2	5		0	0	0	0	36	41	77		0	0	0	0	8	3	11		0	0	0	0	44	57	101	194	
1:00 PM	0	0	0	0	1	0	1		0	0	0	0	6	9	15		0	0	0	0	1	2	3		0	0	0	0	15	20	35	54	
1:15 PM	0	0	0	0	0	0	0		0	0	0	0	13	15	28		0	0	0	0	1	1	2		0	0	0	0	19	18	37	67	
1:30 PM	0	0	0	0	0	0	0		0	0	0	0	4	8	12		0	0	0	0	2	0	2		0	0	0	0	20	12	32	46	
1:45 PM	0	0	0	0	0	0	0		0	0	0	0	15	7	22		0	0	0	0	0	0	0		0	0	0	0	9	8	17	39	
Total	0	0	0	0	1	0	1		0	0	0	0	38	39	77		0	0	0	0	4	3	7		0	0	0	0	63	58	121	206	
Grand Total	0	0	0	0	5	4	9		0	0	0	0	121	116	237		0	0	0	0	14	12	26		0	0	0	0	148	173	321	593	
Approach %	0.0	0.0	0.0	0.0	55.6	44.4			0.0	0.0	0.0	0.0	51.1	48.9		0.0	0.0	0.0	0.0	53.8	46.2			0.0	0.0	0.0	0.0	46.1	53.9				
Total %	0.0	0.0	0.0	0.0	0.8	0.7	1.5		0.0	0.0	0.0	0.0	20.4	19.6	40.0		0.0	0.0	0.0	0.0	2.4	2.0	4.4		0.0	0.0	0.0	0.0	25.0	29.2	54.1		
Exiting Leg Total							9							237							26								321	593			

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)								Russell Street								Massachusetts Ave (Rt 2A)								Cogswell Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
12:30 PM	0	0	0	0	1	1	2		0	0	0	0	11	12	23		0	0	0	0	6	0	6		0	0	0	0	8	14	22	53	
12:45 PM	0	0	0	0	0	0	0		0	0	0	0	8	14	22		0	0	0	0	2	0	2		0	0	0	0	11	15	26	50	
1:00 PM	0	0	0	0	1	0	1		0	0	0	0	6	9	15		0	0	0	0	1	2	3		0	0	0	0	15	20	35	54	
1:15 PM	0	0	0	0	0	0	0		0	0	0	0	13	15	28		0	0	0	0	1	1	2		0	0	0	0	19	18	37	67	
Total Volume	0	0	0	0	2	1	3		0	0	0	0	38	50	88		0	0	0	0	10	3	13		0	0	0	0	53	67	120	224	
% Approach Total	0.0	0.0	0.0	0.0	66.7	33.3			0.0	0.0	0.0	0.0	43.2	56.8		0.0	0.0	0.0	0.0	76.9	23.1			0.0	0.0	0.0	0.0	44.2	55.8				
PHF	0.000	0.000	0.000	0.000	0.500	0.250	0.375		0.000	0.000	0.000	0.000	0.731	0.833	0.786		0.000	0.000	0.000	0.000	0.417	0.375	0.542		0.000	0.000	0.000	0.000	0.697	0.838	0.811	0.836	
Entering Leg	0	0	0	0	2	1	3		0	0	0	0	38	50	88		0	0	0	0	10	3	13		0	0	0	0	53	67	120	224	
Exiting Leg							3							88							13								120	224			
Total							6							176							26								240	448			

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	225	21	0	246	46	40	0	86	12	130	0	142	474
7:15 AM	234	18	1	253	37	67	0	104	10	137	0	147	504
7:30 AM	247	10	0	257	34	54	0	88	22	163	0	185	530
7:45 AM	206	14	1	221	41	62	0	103	25	145	0	170	494
Total	912	63	2	977	158	223	0	381	69	575	0	644	2002
8:00 AM	241	21	0	262	56	56	0	112	27	170	0	197	571
8:15 AM	178	22	0	200	42	71	0	113	26	141	0	167	480
8:30 AM	197	21	0	218	32	57	0	89	17	148	0	165	472
8:45 AM	222	18	0	240	48	63	0	111	17	140	0	157	508
Total	838	82	0	920	178	247	0	425	87	599	0	686	2031
Grand Total	1750	145	2	1897	336	470	0	806	156	1174	0	1330	4033
Approach %	92.3	7.6	0.1		41.7	58.3	0.0		11.7	88.3	0.0		
Total %	43.4	3.6	0.0	47.0	8.3	11.7	0.0	20.0	3.9	29.1	0.0	33.0	
Exiting Leg Total				1512				301				2220	4033
Cars	1653	139	2	1794	323	455	0	778	147	1065	0	1212	3784
% Cars	94.5	95.9	100.0	94.6	96.1	96.8	0.0	96.5	94.2	90.7	0.0	91.1	93.8
Exiting Leg Total				1390				286				2108	3784
Heavy Vehicles	97	6	0	103	13	15	0	28	9	109	0	118	249
% Heavy Vehicles	5.5	4.1	0.0	5.4	3.9	3.2	0.0	3.5	5.8	9.3	0.0	8.9	6.2
Exiting Leg Total				122				15				112	249

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:15 AM	234	18	1	253	37	67	0	104	10	137	0	147	504
7:30 AM	247	10	0	257	34	54	0	88	22	163	0	185	530
7:45 AM	206	14	1	221	41	62	0	103	25	145	0	170	494
8:00 AM	241	21	0	262	56	56	0	112	27	170	0	197	571
Total Volume	928	63	2	993	168	239	0	407	84	615	0	699	2099
% Approach Total	93.5	6.3	0.2		41.3	58.7	0.0		12.0	88.0	0.0		
PHF	0.939	0.750	0.500	0.948	0.750	0.892	0.000	0.908	0.778	0.904	0.000	0.887	0.919
Cars	878	61	2	941	162	228	0	390	79	560	0	639	1970
Cars %	94.6	96.8	100.0	94.8	96.4	95.4	0.0	95.8	94.0	91.1	0.0	91.4	93.9
Heavy Vehicles	50	2	0	52	6	11	0	17	5	55	0	60	129
Heavy Vehicles %	5.4	3.2	0.0	5.2	3.6	4.6	0.0	4.2	6.0	8.9	0.0	8.6	6.1
Cars Enter Leg	878	61	2	941	162	228	0	390	79	560	0	639	1970
Heavy Enter Leg	50	2	0	52	6	11	0	17	5	55	0	60	129
Total Entering Leg	928	63	2	993	168	239	0	407	84	615	0	699	2099
Cars Exiting Leg				724				140				1106	1970
Heavy Exiting Leg				61				7				61	129
Total Exiting Leg				785				147				1167	2099

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	214	19	0	233	42	39	0	81	12	108	0	120	434
7:15 AM	226	16	1	243	36	62	0	98	9	127	0	136	477
7:30 AM	231	10	0	241	32	53	0	85	21	147	0	168	494
7:45 AM	190	14	1	205	40	57	0	97	25	133	0	158	460
Total	861	59	2	922	150	211	0	361	67	515	0	582	1865
8:00 AM	231	21	0	252	54	56	0	110	24	153	0	177	539
8:15 AM	168	21	0	189	42	70	0	112	22	127	0	149	450
8:30 AM	186	20	0	206	32	55	0	87	17	140	0	157	450
8:45 AM	207	18	0	225	45	63	0	108	17	130	0	147	480
Total	792	80	0	872	173	244	0	417	80	550	0	630	1919
Grand Total	1653	139	2	1794	323	455	0	778	147	1065	0	1212	3784
Approach %	92.1	7.7	0.1		41.5	58.5	0.0		12.1	87.9	0.0		
Total %	43.7	3.7	0.1	47.4	8.5	12.0	0.0	20.6	3.9	28.1	0.0	32.0	
Exiting Leg Total				1390				286				2108	3784

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:15 AM	226	16	1	243	36	62	0	98	9	127	0	136	477
7:30 AM	231	10	0	241	32	53	0	85	21	147	0	168	494
7:45 AM	190	14	1	205	40	57	0	97	25	133	0	158	460
8:00 AM	231	21	0	252	54	56	0	110	24	153	0	177	539
Total Volume	878	61	2	941	162	228	0	390	79	560	0	639	1970
% Approach Total	93.3	6.5	0.2		41.5	58.5	0.0		12.4	87.6	0.0		
PHF	0.950	0.726	0.500	0.934	0.750	0.919	0.000	0.886	0.790	0.915	0.000	0.903	0.914
Entering Leg	878	61	2	941	162	228	0	390	79	560	0	639	1970
Exiting Leg				724				140				1106	1970
Total				1665				530				1745	3940

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	11	2	0	13	4	1	0	5	0	22	0	22	40
7:15 AM	8	2	0	10	1	5	0	6	1	10	0	11	27
7:30 AM	16	0	0	16	2	1	0	3	1	16	0	17	36
7:45 AM	16	0	0	16	1	5	0	6	0	12	0	12	34
Total	51	4	0	55	8	12	0	20	2	60	0	62	137
8:00 AM	10	0	0	10	2	0	0	2	3	17	0	20	32
8:15 AM	10	1	0	11	0	1	0	1	4	14	0	18	30
8:30 AM	11	1	0	12	0	2	0	2	0	8	0	8	22
8:45 AM	15	0	0	15	3	0	0	3	0	10	0	10	28
Total	46	2	0	48	5	3	0	8	7	49	0	56	112
Grand Total	97	6	0	103	13	15	0	28	9	109	0	118	249
Approach %	94.2	5.8	0.0		46.4	53.6	0.0		7.6	92.4	0.0		
Total %	39.0	2.4	0.0	41.4	5.2	6.0	0.0	11.2	3.6	43.8	0.0	47.4	
Exiting Leg Total				122				15				112	249
Large Trucks	61	5	0	66	11	8	0	19	6	64	0	70	155
% Large Trucks	62.9	83.3	0.0	64.1	84.6	53.3	0.0	67.9	66.7	58.7	0.0	59.3	62.2
Exiting Leg Total				75				11				69	155
Buses	36	1	0	37	2	7	0	9	3	45	0	48	94
% Buses	37.1	16.7	0.0	35.9	15.4	46.7	0.0	32.1	33.3	41.3	0.0	40.7	37.8
Exiting Leg Total				47				4				43	94

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	11	2	0	13	4	1	0	5	0	22	0	22	40
7:15 AM	8	2	0	10	1	5	0	6	1	10	0	11	27
7:30 AM	16	0	0	16	2	1	0	3	1	16	0	17	36
7:45 AM	16	0	0	16	1	5	0	6	0	12	0	12	34
Total Volume	51	4	0	55	8	12	0	20	2	60	0	62	137
% Approach Total	92.7	7.3	0.0		40.0	60.0	0.0		3.2	96.8	0.0		
PHF	0.797	0.500	0.000	0.859	0.500	0.600	0.000	0.833	0.500	0.682	0.000	0.705	0.856
Large Trucks	31	3	0	34	6	7	0	13	0	35	0	35	82
Large Trucks %	60.8	75.0	0.0	61.8	75.0	58.3	0.0	65.0	0.0	58.3	0.0	56.5	59.9
Buses	20	1	0	21	2	5	0	7	2	25	0	27	55
Buses %	39.2	25.0	0.0	38.2	25.0	41.7	0.0	35.0	100.0	41.7	0.0	43.5	40.1
Trucks Enter Leg	31	3	0	34	6	7	0	13	0	35	0	35	82
Bus Enter Leg	20	1	0	21	2	5	0	7	2	25	0	27	55
Total Entering Leg	51	4	0	55	8	12	0	20	2	60	0	62	137
Trucks Exiting Leg				41				3				38	82
Buses Exiting Leg				27				3				25	55
Total Exiting Leg				68				6				63	137

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
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 Email: datarequests@pdillc.com

Large Trucks

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	6	1	0	7	2	0	0	2	0	13	0	13	22
7:15 AM	4	2	0	6	1	2	0	3	0	5	0	5	14
7:30 AM	10	0	0	10	2	1	0	3	0	9	0	9	22
7:45 AM	11	0	0	11	1	4	0	5	0	8	0	8	24
Total	31	3	0	34	6	7	0	13	0	35	0	35	82
8:00 AM	6	0	0	6	2	0	0	2	3	11	0	14	22
8:15 AM	6	1	0	7	0	0	0	0	3	8	0	11	18
8:30 AM	7	1	0	8	0	1	0	1	0	7	0	7	16
8:45 AM	11	0	0	11	3	0	0	3	0	3	0	3	17
Total	30	2	0	32	5	1	0	6	6	29	0	35	73
Grand Total	61	5	0	66	11	8	0	19	6	64	0	70	155
Approach %	92.4	7.6	0.0		57.9	42.1	0.0		8.6	91.4	0.0		
Total %	39.4	3.2	0.0	42.6	7.1	5.2	0.0	12.3	3.9	41.3	0.0	45.2	
Exiting Leg Total				75				11				69	155

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:30 AM	10	0	0	10	2	1	0	3	0	9	0	9	22
7:45 AM	11	0	0	11	1	4	0	5	0	8	0	8	24
8:00 AM	6	0	0	6	2	0	0	2	3	11	0	14	22
8:15 AM	6	1	0	7	0	0	0	0	3	8	0	11	18
Total Volume	33	1	0	34	5	5	0	10	6	36	0	42	86
% Approach Total	97.1	2.9	0.0		50.0	50.0	0.0		14.3	85.7	0.0		
PHF	0.750	0.250	0.000	0.773	0.625	0.313	0.000	0.500	0.500	0.818	0.000	0.750	0.896
Entering Leg	33	1	0	34	5	5	0	10	6	36	0	42	86
Exiting Leg				41				7				38	86
Total				75				17				80	172

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	5	1	0	6	2	1	0	3	0	9	0	9	18
7:15 AM	4	0	0	4	0	3	0	3	1	5	0	6	13
7:30 AM	6	0	0	6	0	0	0	0	1	7	0	8	14
7:45 AM	5	0	0	5	0	1	0	1	0	4	0	4	10
Total	20	1	0	21	2	5	0	7	2	25	0	27	55
8:00 AM	4	0	0	4	0	0	0	0	0	6	0	6	10
8:15 AM	4	0	0	4	0	1	0	1	1	6	0	7	12
8:30 AM	4	0	0	4	0	1	0	1	0	1	0	1	6
8:45 AM	4	0	0	4	0	0	0	0	0	7	0	7	11
Total	16	0	0	16	0	2	0	2	1	20	0	21	39
Grand Total	36	1	0	37	2	7	0	9	3	45	0	48	94
Approach %	97.3	2.7	0.0		22.2	77.8	0.0		6.3	93.8	0.0		
Total %	38.3	1.1	0.0	39.4	2.1	7.4	0.0	9.6	3.2	47.9	0.0	51.1	
Exiting Leg Total				47				4				43	94

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	5	1	0	6	2	1	0	3	0	9	0	9	18
7:15 AM	4	0	0	4	0	3	0	3	1	5	0	6	13
7:30 AM	6	0	0	6	0	0	0	0	1	7	0	8	14
7:45 AM	5	0	0	5	0	1	0	1	0	4	0	4	10
Total Volume	20	1	0	21	2	5	0	7	2	25	0	27	55
% Approach Total	95.2	4.8	0.0		28.6	71.4	0.0		7.4	92.6	0.0		
PHF	0.833	0.250	0.000	0.875	0.250	0.417	0.000	0.583	0.500	0.694	0.000	0.750	0.764
Entering Leg	20	1	0	21	2	5	0	7	2	25	0	27	55
Exiting Leg				27				3				25	55
Total				48				10				52	110

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

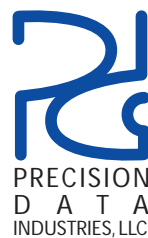
Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
7:00 AM	4	0	0	0	0	4	0	1	0	0	0	1	0	1	0	0	0	1	6
7:15 AM	17	0	0	0	0	17	0	3	0	0	0	3	0	3	0	0	0	3	23
7:30 AM	18	0	0	0	0	18	1	2	0	0	1	4	1	6	0	0	0	7	29
7:45 AM	14	0	0	0	0	14	0	4	0	0	0	4	0	4	0	0	0	4	22
Total	53	0	0	0	0	53	1	10	0	0	1	12	1	14	0	0	0	15	80
8:00 AM	14	0	0	0	0	14	0	2	0	0	0	2	3	1	0	0	0	4	20
8:15 AM	24	0	0	0	0	24	0	3	0	0	0	3	0	7	0	0	0	7	34
8:30 AM	20	0	0	0	0	20	0	5	0	0	0	5	0	4	0	0	0	4	29
8:45 AM	12	0	0	0	0	12	2	5	0	0	0	7	1	4	0	0	0	5	24
Total	70	0	0	0	0	70	2	15	0	0	0	17	4	16	0	0	0	20	107
Grand Total	123	0	0	0	0	123	3	25	0	0	1	29	5	30	0	0	0	35	187
Approach %	100.0	0.0	0.0	0.0	0.0		10.3	86.2	0.0	0.0	3.4		14.3	85.7	0.0	0.0	0.0		
Total %	65.8	0.0	0.0	0.0	0.0	65.8	1.6	13.4	0.0	0.0	0.5	15.5	2.7	16.0	0.0	0.0	0.0	18.7	
Exiting Leg Total						33						6						148	187

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
8:00 AM	14	0	0	0	0	14	0	2	0	0	0	2	3	1	0	0	0	4	20
8:15 AM	24	0	0	0	0	24	0	3	0	0	0	3	0	7	0	0	0	7	34
8:30 AM	20	0	0	0	0	20	0	5	0	0	0	5	0	4	0	0	0	4	29
8:45 AM	12	0	0	0	0	12	2	5	0	0	0	7	1	4	0	0	0	5	24
Total Volume	70	0	0	0	0	70	2	15	0	0	0	17	4	16	0	0	0	20	107
% Approach Total	100.0	0.0	0.0	0.0	0.0		11.8	88.2	0.0	0.0	0.0		20.0	80.0	0.0	0.0	0.0		
PHF	0.729	0.000	0.000	0.000	0.000	0.729	0.250	0.750	0.000	0.000	0.000	0.607	0.333	0.571	0.000	0.000	0.000	0.714	0.787
Entering Leg	70	0	0	0	0	70	2	15	0	0	0	17	4	16	0	0	0	20	107
Exiting Leg						18						4						85	107
Total						88						21						105	214

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	5	6	11	0	0	0	0	0	0	11
7:15 AM	0	0	0	2	2	4	0	0	0	9	8	17	0	0	0	0	1	1	22
7:30 AM	0	0	0	1	0	1	0	0	0	9	6	15	0	0	0	0	1	1	17
7:45 AM	0	0	0	3	0	3	0	0	0	23	12	35	0	0	0	1	2	3	41
Total	0	0	0	6	2	8	0	0	0	46	32	78	0	0	0	1	4	5	91
8:00 AM	0	0	0	0	2	2	0	0	0	13	10	23	0	0	0	0	0	0	25
8:15 AM	0	0	0	1	0	1	0	0	0	15	8	23	0	0	0	1	0	1	25
8:30 AM	0	0	0	0	2	2	0	0	0	5	8	13	0	0	0	3	2	5	20
8:45 AM	0	0	0	0	2	2	0	0	0	12	12	24	0	0	0	2	0	2	28
Total	0	0	0	1	6	7	0	0	0	45	38	83	0	0	0	6	2	8	98
Grand Total	0	0	0	7	8	15	0	0	0	91	70	161	0	0	0	7	6	13	189
Approach %	0.0	0.0	0.0	46.7	53.3		0.0	0.0	0.0	56.5	43.5		0.0	0.0	0.0	53.8	46.2		
Total %	0.0	0.0	0.0	3.7	4.2	7.9	0.0	0.0	0.0	48.1	37.0	85.2	0.0	0.0	0.0	3.7	3.2	6.9	
Exiting Leg Total	15						161						13						189

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
7:45 AM	0	0	0	3	0	3	0	0	0	23	12	35	0	0	0	1	2	3	41
8:00 AM	0	0	0	0	2	2	0	0	0	13	10	23	0	0	0	0	0	0	25
8:15 AM	0	0	0	1	0	1	0	0	0	15	8	23	0	0	0	1	0	1	25
8:30 AM	0	0	0	0	2	2	0	0	0	5	8	13	0	0	0	3	2	5	20
Total Volume	0	0	0	4	4	8	0	0	0	56	38	94	0	0	0	5	4	9	111
% Approach Total	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	59.6	40.4		0.0	0.0	0.0	55.6	44.4		
PHF	0.000	0.000	0.000	0.333	0.500	0.667	0.000	0.000	0.000	0.609	0.792	0.671	0.000	0.000	0.000	0.417	0.500	0.450	0.677
Entering Leg	0	0	0	4	4	8	0	0	0	56	38	94	0	0	0	5	4	9	111
Exiting Leg	8						94						9						111
Total	16						188						18						222

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	145	26	0	171	35	14	0	49	39	228	0	267	487
4:15 PM	120	27	0	147	35	24	0	59	37	241	0	278	484
4:30 PM	133	29	1	163	27	25	0	52	35	252	0	287	502
4:45 PM	118	29	0	147	43	21	0	64	36	199	0	235	446
Total	516	111	1	628	140	84	0	224	147	920	0	1067	1919
5:00 PM	147	27	1	175	38	28	0	66	36	258	0	294	535
5:15 PM	119	16	0	135	39	37	0	76	26	216	1	243	454
5:30 PM	147	38	1	186	39	23	0	62	38	225	0	263	511
5:45 PM	152	32	1	185	38	27	0	65	38	193	0	231	481
Total	565	113	3	681	154	115	0	269	138	892	1	1031	1981
Grand Total	1081	224	4	1309	294	199	0	493	285	1812	1	2098	3900
Approach %	82.6	17.1	0.3		59.6	40.4	0.0		13.6	86.4	0.0		
Total %	27.7	5.7	0.1	33.6	7.5	5.1	0.0	12.6	7.3	46.5	0.0	53.8	
Exiting Leg Total				2110				509				1281	3900
Cars	1041	223	4	1268	287	192	0	479	278	1765	1	2044	3791
% Cars	96.3	99.6	100.0	96.9	97.6	96.5	0.0	97.2	97.5	97.4	100.0	97.4	97.2
Exiting Leg Total				2056				501				1234	3791
Heavy Vehicles	40	1	0	41	7	7	0	14	7	47	0	54	109
% Heavy Vehicles	3.7	0.4	0.0	3.1	2.4	3.5	0.0	2.8	2.5	2.6	0.0	2.6	2.8
Exiting Leg Total				54				8				47	109

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
5:00 PM	147	27	1	175	38	28	0	66	36	258	0	294	535
5:15 PM	119	16	0	135	39	37	0	76	26	216	1	243	454
5:30 PM	147	38	1	186	39	23	0	62	38	225	0	263	511
5:45 PM	152	32	1	185	38	27	0	65	38	193	0	231	481
Total Volume	565	113	3	681	154	115	0	269	138	892	1	1031	1981
% Approach Total	83.0	16.6	0.4		57.2	42.8	0.0		13.4	86.5	0.1		
PHF	0.929	0.743	0.750	0.915	0.987	0.777	0.000	0.885	0.908	0.864	0.250	0.877	0.926
Cars	551	112	3	666	152	112	0	264	135	873	1	1009	1939
Cars %	97.5	99.1	100.0	97.8	98.7	97.4	0.0	98.1	97.8	97.9	100.0	97.9	97.9
Heavy Vehicles	14	1	0	15	2	3	0	5	3	19	0	22	42
Heavy Vehicles %	2.5	0.9	0.0	2.2	1.3	2.6	0.0	1.9	2.2	2.1	0.0	2.1	2.1
Cars Enter Leg	551	112	3	666	152	112	0	264	135	873	1	1009	1939
Heavy Enter Leg	14	1	0	15	2	3	0	5	3	19	0	22	42
Total Entering Leg	565	113	3	681	154	115	0	269	138	892	1	1031	1981
Cars Exiting Leg				1028				247				664	1939
Heavy Exiting Leg				21				4				17	42
Total Exiting Leg				1049				251				681	1981

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	139	26	0	165	34	13	0	47	39	219	0	258	470
4:15 PM	111	27	0	138	33	22	0	55	35	235	0	270	463
4:30 PM	126	29	1	156	25	25	0	50	34	247	0	281	487
4:45 PM	114	29	0	143	43	20	0	63	35	191	0	226	432
Total	490	111	1	602	135	80	0	215	143	892	0	1035	1852
5:00 PM	144	26	1	171	37	28	0	65	36	252	0	288	524
5:15 PM	116	16	0	132	39	35	0	74	25	212	1	238	444
5:30 PM	142	38	1	181	38	23	0	61	38	220	0	258	500
5:45 PM	149	32	1	182	38	26	0	64	36	189	0	225	471
Total	551	112	3	666	152	112	0	264	135	873	1	1009	1939
Grand Total	1041	223	4	1268	287	192	0	479	278	1765	1	2044	3791
Approach %	82.1	17.6	0.3		59.9	40.1	0.0		13.6	86.4	0.0		
Total %	27.5	5.9	0.1	33.4	7.6	5.1	0.0	12.6	7.3	46.6	0.0	53.9	
Exiting Leg Total				2056				501				1234	3791

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
5:00 PM	144	26	1	171	37	28	0	65	36	252	0	288	524
5:15 PM	116	16	0	132	39	35	0	74	25	212	1	238	444
5:30 PM	142	38	1	181	38	23	0	61	38	220	0	258	500
5:45 PM	149	32	1	182	38	26	0	64	36	189	0	225	471
Total Volume	551	112	3	666	152	112	0	264	135	873	1	1009	1939
% Approach Total	82.7	16.8	0.5		57.6	42.4	0.0		13.4	86.5	0.1		
PHF	0.924	0.737	0.750	0.915	0.974	0.800	0.000	0.892	0.888	0.866	0.250	0.876	0.925
Entering Leg	551	112	3	666	152	112	0	264	135	873	1	1009	1939
Exiting Leg				1028				247				664	1939
Total				1694				511				1673	3878

PDI File #: 175971 G

Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)

Location: E: Beech Street

City, State: Somerville, MA

Client: Toole/ H. Georgallas

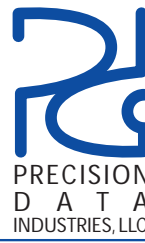
Site Code: TBA

Count Date: Thursday, November 16, 2017

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total	
	from North				from East				from South					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
4:00 PM	6	0	0	6	1	1	0	2	0	9	0	9	17	
4:15 PM	9	0	0	9	2	2	0	4	2	6	0	8	21	
4:30 PM	7	0	0	7	2	0	0	2	1	5	0	6	15	
4:45 PM	4	0	0	4	0	1	0	1	1	8	0	9	14	
Total	26	0	0	26	5	4	0	9	4	28	0	32	67	
5:00 PM	3	1	0	4	1	0	0	1	0	6	0	6	11	
5:15 PM	3	0	0	3	0	2	0	2	1	4	0	5	10	
5:30 PM	5	0	0	5	1	0	0	1	0	5	0	5	11	
5:45 PM	3	0	0	3	0	1	0	1	2	4	0	6	10	
Total	14	1	0	15	2	3	0	5	3	19	0	22	42	
Grand Total	40	1	0	41	7	7	0	14	7	47	0	54	109	
Approach %	97.6	2.4	0.0		50.0	50.0	0.0		13.0	87.0	0.0			
Total %	36.7	0.9	0.0	37.6	6.4	6.4	0.0	12.8	6.4	43.1	0.0	49.5		
Exiting Leg Total				54				8					47	109
Large Trucks	14	1	0	15	4	1	0	5	2	20	0	22	42	
% Large Trucks	35.0	100.0	0.0	36.6	57.1	14.3	0.0	35.7	28.6	42.6	0.0	40.7	38.5	
Exiting Leg Total				24				3					15	42
Buses	26	0	0	26	3	6	0	9	5	27	0	32	67	
% Buses	65.0	0.0	0.0	63.4	42.9	85.7	0.0	64.3	71.4	57.4	0.0	59.3	61.5	
Exiting Leg Total				30				5					32	67

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total	
	from North				from East				from South					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
4:00 PM	6	0	0	6	1	1	0	2	0	9	0	9	17	
4:15 PM	9	0	0	9	2	2	0	4	2	6	0	8	21	
4:30 PM	7	0	0	7	2	0	0	2	1	5	0	6	15	
4:45 PM	4	0	0	4	0	1	0	1	1	8	0	9	14	
Total Volume	26	0	0	26	5	4	0	9	4	28	0	32	67	
% Approach Total	100.0	0.0	0.0		55.6	44.4	0.0		12.5	87.5	0.0			
PHF	0.722	0.000	0.000	0.722	0.625	0.500	0.000	0.563	0.500	0.778	0.000	0.889	0.798	
Large Trucks	10	0	0	10	3	1	0	4	1	12	0	13	27	
Large Trucks %	38.5	0.0	0.0	38.5	60.0	25.0	0.0	44.4	25.0	42.9	0.0	40.6	40.3	
Buses	16	0	0	16	2	3	0	5	3	16	0	19	40	
Buses %	61.5	0.0	0.0	61.5	40.0	75.0	0.0	55.6	75.0	57.1	0.0	59.4	59.7	
Trucks Enter Leg	10	0	0	10	3	1	0	4	1	12	0	13	27	
Bus Enter Leg	16	0	0	16	2	3	0	5	3	16	0	19	40	
Total Entering Leg	26	0	0	26	5	4	0	9	4	28	0	32	67	
Trucks Exiting Leg				15				1					11	27
Buses Exiting Leg				18				3					19	40
Total Exiting Leg				33				4					30	67

PDI File #: 175971 G

Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)

Location: E: Beech Street

City, State: Somerville, MA

Client: Toole/ H. Georgallas

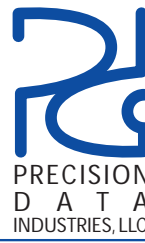
Site Code: TBA

Count Date: Thursday, November 16, 2017

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

Large Trucks

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	1	0	0	1	1	0	0	1	0	7	0	7	9
4:15 PM	3	0	0	3	1	1	0	2	1	1	0	2	7
4:30 PM	4	0	0	4	1	0	0	1	0	2	0	2	7
4:45 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
Total	10	0	0	10	3	1	0	4	1	12	0	13	27
5:00 PM	0	1	0	1	0	0	0	0	0	3	0	3	4
5:15 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
5:30 PM	2	0	0	2	1	0	0	1	0	1	0	1	4
5:45 PM	1	0	0	1	0	0	0	0	1	3	0	4	5
Total	4	1	0	5	1	0	0	1	1	8	0	9	15
Grand Total	14	1	0	15	4	1	0	5	2	20	0	22	42
Approach %	93.3	6.7	0.0		80.0	20.0	0.0		9.1	90.9	0.0		
Total %	33.3	2.4	0.0	35.7	9.5	2.4	0.0	11.9	4.8	47.6	0.0	52.4	
Exiting Leg Total				24				3				15	42

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	1	0	0	1	1	0	0	1	0	7	0	7	9
4:15 PM	3	0	0	3	1	1	0	2	1	1	0	2	7
4:30 PM	4	0	0	4	1	0	0	1	0	2	0	2	7
4:45 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
Total Volume	10	0	0	10	3	1	0	4	1	12	0	13	27
% Approach Total	100.0	0.0	0.0		75.0	25.0	0.0		7.7	92.3	0.0		
PHF	0.625	0.000	0.000	0.625	0.750	0.250	0.000	0.500	0.250	0.429	0.000	0.464	0.750
Entering Leg	10	0	0	10	3	1	0	4	1	12	0	13	27
Exiting Leg				15				1				11	27
Total				25				5				24	54

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	5	0	0	5	0	1	0	1	0	2	0	2	8
4:15 PM	6	0	0	6	1	1	0	2	1	5	0	6	14
4:30 PM	3	0	0	3	1	0	0	1	1	3	0	4	8
4:45 PM	2	0	0	2	0	1	0	1	1	6	0	7	10
Total	16	0	0	16	2	3	0	5	3	16	0	19	40
5:00 PM	3	0	0	3	1	0	0	1	0	3	0	3	7
5:15 PM	2	0	0	2	0	2	0	2	1	3	0	4	8
5:30 PM	3	0	0	3	0	0	0	0	0	4	0	4	7
5:45 PM	2	0	0	2	0	1	0	1	1	1	0	2	5
Total	10	0	0	10	1	3	0	4	2	11	0	13	27
Grand Total	26	0	0	26	3	6	0	9	5	27	0	32	67
Approach %	100.0	0.0	0.0		33.3	66.7	0.0		15.6	84.4	0.0		
Total %	38.8	0.0	0.0	38.8	4.5	9.0	0.0	13.4	7.5	40.3	0.0	47.8	
Exiting Leg Total				30				5				32	67

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	5	0	0	5	0	1	0	1	0	2	0	2	8
4:15 PM	6	0	0	6	1	1	0	2	1	5	0	6	14
4:30 PM	3	0	0	3	1	0	0	1	1	3	0	4	8
4:45 PM	2	0	0	2	0	1	0	1	1	6	0	7	10
Total Volume	16	0	0	16	2	3	0	5	3	16	0	19	40
% Approach Total	100.0	0.0	0.0		40.0	60.0	0.0		15.8	84.2	0.0		
PHF	0.667	0.000	0.000	0.667	0.500	0.750	0.000	0.625	0.750	0.667	0.000	0.679	0.714
Entering Leg	16	0	0	16	2	3	0	5	3	16	0	19	40
Exiting Leg				18				3				19	40
Total				34				8				38	80

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
4:00 PM	1	0	0	0	0	1	0	0	0	0	2	2	0	7	0	0	0	7	10
4:15 PM	1	0	0	0	0	1	0	1	0	0	0	1	2	11	0	0	0	13	15
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	12	0	0	0	12	13
4:45 PM	0	0	0	0	0	0	2	0	0	0	0	2	1	12	0	0	0	13	15
Total	2	0	0	0	0	2	2	2	0	0	2	6	3	42	0	0	0	45	53
5:00 PM	0	0	0	0	0	0	0	2	0	0	0	2	1	9	0	0	0	10	12
5:15 PM	2	0	0	0	0	2	0	1	0	0	0	1	1	26	0	0	0	27	30
5:30 PM	1	0	0	0	0	1	0	1	0	0	0	1	1	22	0	0	0	23	25
5:45 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	17	0	0	0	17	18
Total	3	0	0	0	0	3	0	5	0	0	0	5	3	74	0	0	0	77	85
Grand Total	5	0	0	0	0	5	2	7	0	0	2	11	6	116	0	0	0	122	138
Approach %	100.0	0.0	0.0	0.0	0.0		18.2	63.6	0.0	0.0	18.2		4.9	95.1	0.0	0.0	0.0		
Total %	3.6	0.0	0.0	0.0	0.0	3.6	1.4	5.1	0.0	0.0	1.4	8.0	4.3	84.1	0.0	0.0	0.0	88.4	
Exiting Leg Total	118						8						12						138

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
5:00 PM	0	0	0	0	0	0	0	2	0	0	0	2	1	9	0	0	0	10	12
5:15 PM	2	0	0	0	0	2	0	1	0	0	0	1	1	26	0	0	0	27	30
5:30 PM	1	0	0	0	0	1	0	1	0	0	0	1	1	22	0	0	0	23	25
5:45 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	17	0	0	0	17	18
Total Volume	3	0	0	0	0	3	0	5	0	0	0	5	3	74	0	0	0	77	85
% Approach Total	100.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0		3.9	96.1	0.0	0.0	0.0		
PHF	0.375	0.000	0.000	0.000	0.000	0.375	0.000	0.625	0.000	0.000	0.000	0.625	0.750	0.712	0.000	0.000	0.000	0.713	0.708
Entering Leg	3	0	0	0	0	3	0	5	0	0	0	5	3	74	0	0	0	77	85
Exiting Leg	74						3						8						85
Total	77						8						85						170

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
4:00 PM	0	0	0	1	4	5	0	0	0	5	9	14	0	0	0	5	2	7	26
4:15 PM	0	0	0	1	0	1	0	0	0	9	8	17	0	0	0	2	1	3	21
4:30 PM	0	0	0	0	2	2	0	0	0	10	7	17	0	0	0	2	1	3	22
4:45 PM	0	0	0	2	0	2	0	0	0	6	14	20	0	0	0	2	1	3	25
Total	0	0	0	4	6	10	0	0	0	30	38	68	0	0	0	11	5	16	94
5:00 PM	0	0	0	2	0	2	0	0	0	23	16	39	0	0	0	2	0	2	43
5:15 PM	0	0	0	1	1	2	0	0	0	22	22	44	0	0	0	4	0	4	50
5:30 PM	0	0	0	5	1	6	0	0	0	7	16	23	0	0	0	4	1	5	34
5:45 PM	0	0	0	1	4	5	0	0	0	16	15	31	0	0	0	5	1	6	42
Total	0	0	0	9	6	15	0	0	0	68	69	137	0	0	0	15	2	17	169
Grand Total	0	0	0	13	12	25	0	0	0	98	107	205	0	0	0	26	7	33	263
Approach %	0.0	0.0	0.0	52.0	48.0		0.0	0.0	0.0	47.8	52.2		0.0	0.0	0.0	78.8	21.2		
Total %	0.0	0.0	0.0	4.9	4.6	9.5	0.0	0.0	0.0	37.3	40.7	77.9	0.0	0.0	0.0	9.9	2.7	12.5	
Exiting Leg Total	25						205						33						263

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
5:00 PM	0	0	0	2	0	2	0	0	0	23	16	39	0	0	0	2	0	2	43
5:15 PM	0	0	0	1	1	2	0	0	0	22	22	44	0	0	0	4	0	4	50
5:30 PM	0	0	0	5	1	6	0	0	0	7	16	23	0	0	0	4	1	5	34
5:45 PM	0	0	0	1	4	5	0	0	0	16	15	31	0	0	0	5	1	6	42
Total Volume	0	0	0	9	6	15	0	0	0	68	69	137	0	0	0	15	2	17	169
% Approach Total	0.0	0.0	0.0	60.0	40.0		0.0	0.0	0.0	49.6	50.4		0.0	0.0	0.0	88.2	11.8		
PHF	0.000	0.000	0.000	0.450	0.375	0.625	0.000	0.000	0.000	0.739	0.784	0.778	0.000	0.000	0.000	0.750	0.500	0.708	0.845
Entering Leg	0	0	0	9	6	15	0	0	0	68	69	137	0	0	0	15	2	17	169
Exiting Leg	15						137						17						169
Total	30						274						34						338

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	165	31	1	197	41	19	0	60	32	192	0	224	481
11:15 AM	134	29	1	164	43	25	0	68	22	168	0	190	422
11:30 AM	143	23	0	166	32	18	0	50	27	182	0	209	425
11:45 AM	147	30	1	178	53	17	0	70	20	167	0	187	435
Total	589	113	3	705	169	79	0	248	101	709	0	810	1763
12:00 PM	166	33	1	200	45	24	0	69	26	204	0	230	499
12:15 PM	168	27	0	195	49	22	0	71	19	170	0	189	455
12:30 PM	158	26	1	185	28	21	0	49	29	188	0	217	451
12:45 PM	132	31	2	165	44	29	0	73	34	163	0	197	435
Total	624	117	4	745	166	96	0	262	108	725	0	833	1840
1:00 PM	148	32	0	180	40	23	0	63	25	184	0	209	452
1:15 PM	139	29	0	168	37	28	0	65	24	187	0	211	444
1:30 PM	160	26	2	188	28	18	0	46	24	199	0	223	457
1:45 PM	159	34	0	193	42	20	0	62	29	187	0	216	471
Total	606	121	2	729	147	89	0	236	102	757	0	859	1824
Grand Total	1819	351	9	2179	482	264	0	746	311	2191	0	2502	5427
Approach %	83.5	16.1	0.4		64.6	35.4	0.0		12.4	87.6	0.0		
Total %	33.5	6.5	0.2	40.2	8.9	4.9	0.0	13.7	5.7	40.4	0.0	46.1	
Exiting Leg Total				2682				662				2083	5427
Cars	1779	344	9	2132	471	260	0	731	302	2129	0	2431	5294
% Cars	97.8	98.0	100.0	97.8	97.7	98.5	0.0	98.0	97.1	97.2	0.0	97.2	97.5
Exiting Leg Total				2609				646				2039	5294
Heavy Vehicles	40	7	0	47	11	4	0	15	9	62	0	71	133
% Heavy Vehicles	2.2	2.0	0.0	2.2	2.3	1.5	0.0	2.0	2.9	2.8	0.0	2.8	2.5
Exiting Leg Total				73				16				44	133

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:45 AM	147	30	1	178	53	17	0	70	20	167	0	187	435
12:00 PM	166	33	1	200	45	24	0	69	26	204	0	230	499
12:15 PM	168	27	0	195	49	22	0	71	19	170	0	189	455
12:30 PM	158	26	1	185	28	21	0	49	29	188	0	217	451
Total Volume	639	116	3	758	175	84	0	259	94	729	0	823	1840
% Approach Total	84.3	15.3	0.4		67.6	32.4	0.0		11.4	88.6	0.0		
PHF	0.951	0.879	0.750	0.948	0.825	0.875	0.000	0.912	0.810	0.893	0.000	0.895	0.922
Cars	622	113	3	738	173	83	0	256	91	714	0	805	1799
Cars %	97.3	97.4	100.0	97.4	98.9	98.8	0.0	98.8	96.8	97.9	0.0	97.8	97.8
Heavy Vehicles	17	3	0	20	2	1	0	3	3	15	0	18	41
Heavy Vehicles %	2.7	2.6	0.0	2.6	1.1	1.2	0.0	1.2	3.2	2.1	0.0	2.2	2.2
Cars Enter Leg	622	113	3	738	173	83	0	256	91	714	0	805	1799
Heavy Enter Leg	17	3	0	20	2	1	0	3	3	15	0	18	41
Total Entering Leg	639	116	3	758	175	84	0	259	94	729	0	823	1840
Cars Exiting Leg				890				204				705	1799
Heavy Exiting Leg				17				6				18	41
Total Exiting Leg				907				210				723	1840

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Cars

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	161	30	1	192	41	19	0	60	32	184	0	216	468
11:15 AM	131	29	1	161	42	25	0	67	21	165	0	186	414
11:30 AM	141	23	0	164	31	17	0	48	27	174	0	201	413
11:45 AM	143	30	1	174	51	17	0	68	20	162	0	182	424
Total	576	112	3	691	165	78	0	243	100	685	0	785	1719
12:00 PM	164	33	1	198	45	24	0	69	24	202	0	226	493
12:15 PM	160	24	0	184	49	22	0	71	19	167	0	186	441
12:30 PM	155	26	1	182	28	20	0	48	28	183	0	211	441
12:45 PM	131	31	2	164	42	29	0	71	34	154	0	188	423
Total	610	114	4	728	164	95	0	259	105	706	0	811	1798
1:00 PM	144	31	0	175	39	23	0	62	23	177	0	200	437
1:15 PM	135	29	0	164	35	26	0	61	22	183	0	205	430
1:30 PM	158	24	2	184	28	18	0	46	24	195	0	219	449
1:45 PM	156	34	0	190	40	20	0	60	28	183	0	211	461
Total	593	118	2	713	142	87	0	229	97	738	0	835	1777
Grand Total	1779	344	9	2132	471	260	0	731	302	2129	0	2431	5294
Approach %	83.4	16.1	0.4		64.4	35.6	0.0		12.4	87.6	0.0		
Total %	33.6	6.5	0.2	40.3	8.9	4.9	0.0	13.8	5.7	40.2	0.0	45.9	
Exiting Leg Total				2609				646				2039	5294

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:45 AM	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:45 AM	143	30	1	174	51	17	0	68	20	162	0	182	424
12:00 PM	164	33	1	198	45	24	0	69	24	202	0	226	493
12:15 PM	160	24	0	184	49	22	0	71	19	167	0	186	441
12:30 PM	155	26	1	182	28	20	0	48	28	183	0	211	441
Total Volume	622	113	3	738	173	83	0	256	91	714	0	805	1799
% Approach Total	84.3	15.3	0.4		67.6	32.4	0.0		11.3	88.7	0.0		
PHF	0.948	0.856	0.750	0.932	0.848	0.865	0.000	0.901	0.813	0.884	0.000	0.890	0.912
Entering Leg	622	113	3	738	173	83	0	256	91	714	0	805	1799
Exiting Leg				890				204				705	1799
Total				1628				460				1510	3598

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	4	1	0	5	0	0	0	0	0	8	0	8	13
11:15 AM	3	0	0	3	1	0	0	1	1	3	0	4	8
11:30 AM	2	0	0	2	1	1	0	2	0	8	0	8	12
11:45 AM	4	0	0	4	2	0	0	2	0	5	0	5	11
Total	13	1	0	14	4	1	0	5	1	24	0	25	44
12:00 PM	2	0	0	2	0	0	0	0	2	2	0	4	6
12:15 PM	8	3	0	11	0	0	0	0	0	3	0	3	14
12:30 PM	3	0	0	3	0	1	0	1	1	5	0	6	10
12:45 PM	1	0	0	1	2	0	0	2	0	9	0	9	12
Total	14	3	0	17	2	1	0	3	3	19	0	22	42
1:00 PM	4	1	0	5	1	0	0	1	2	7	0	9	15
1:15 PM	4	0	0	4	2	2	0	4	2	4	0	6	14
1:30 PM	2	2	0	4	0	0	0	0	0	4	0	4	8
1:45 PM	3	0	0	3	2	0	0	2	1	4	0	5	10
Total	13	3	0	16	5	2	0	7	5	19	0	24	47
Grand Total	40	7	0	47	11	4	0	15	9	62	0	71	133
Approach %	85.1	14.9	0.0		73.3	26.7	0.0		12.7	87.3	0.0		
Total %	30.1	5.3	0.0	35.3	8.3	3.0	0.0	11.3	6.8	46.6	0.0	53.4	
Exiting Leg Total	73				16				44				133
Large Trucks	19	6	0	25	10	1	0	11	5	38	0	43	79
% Large Trucks	47.5	85.7	0.0	53.2	90.9	25.0	0.0	73.3	55.6	61.3	0.0	60.6	59.4
Exiting Leg Total	48				11				20				79
Buses	21	1	0	22	1	3	0	4	4	24	0	28	54
% Buses	52.5	14.3	0.0	46.8	9.1	75.0	0.0	26.7	44.4	38.7	0.0	39.4	40.6
Exiting Leg Total	25				5				24				54

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:15 PM	8	3	0	11	0	0	0	0	0	3	0	3	14
12:30 PM	3	0	0	3	0	1	0	1	1	5	0	6	10
12:45 PM	1	0	0	1	2	0	0	2	0	9	0	9	12
1:00 PM	4	1	0	5	1	0	0	1	2	7	0	9	15
Total Volume	16	4	0	20	3	1	0	4	3	24	0	27	51
% Approach Total	80.0	20.0	0.0		75.0	25.0	0.0		11.1	88.9	0.0		
PHF	0.500	0.333	0.000	0.455	0.375	0.250	0.000	0.500	0.375	0.667	0.000	0.750	0.850
Large Trucks	10	3	0	13	2	0	0	2	2	16	0	18	33
Large Trucks %	62.5	75.0	0.0	65.0	66.7	0.0	0.0	50.0	66.7	66.7	0.0	66.7	64.7
Buses	6	1	0	7	1	1	0	2	1	8	0	9	18
Buses %	37.5	25.0	0.0	35.0	33.3	100.0	0.0	50.0	33.3	33.3	0.0	33.3	35.3
Trucks Enter Leg	10	3	0	13	2	0	0	2	2	16	0	18	33
Bus Enter Leg	6	1	0	7	1	1	0	2	1	8	0	9	18
Total Entering Leg	16	4	0	20	3	1	0	4	3	24	0	27	51
Trucks Exiting Leg	18				5				10				33
Buses Exiting Leg	9				2				7				18
Total Exiting Leg	27				7				17				51

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	2	1	0	3	0	0	0	0	0	5	0	5	8
11:15 AM	1	0	0	1	1	0	0	1	0	3	0	3	5
11:30 AM	1	0	0	1	1	0	0	1	0	4	0	4	6
11:45 AM	1	0	0	1	2	0	0	2	0	3	0	3	6
Total	5	1	0	6	4	0	0	4	0	15	0	15	25
12:00 PM	1	0	0	1	0	0	0	0	1	2	0	3	4
12:15 PM	6	2	0	8	0	0	0	0	0	0	0	0	8
12:30 PM	0	0	0	0	0	0	0	0	1	4	0	5	5
12:45 PM	1	0	0	1	1	0	0	1	0	6	0	6	8
Total	8	2	0	10	1	0	0	1	2	12	0	14	25
1:00 PM	3	1	0	4	1	0	0	1	1	6	0	7	12
1:15 PM	1	0	0	1	2	1	0	3	2	2	0	4	8
1:30 PM	1	2	0	3	0	0	0	0	0	2	0	2	5
1:45 PM	1	0	0	1	2	0	0	2	0	1	0	1	4
Total	6	3	0	9	5	1	0	6	3	11	0	14	29
Grand Total	19	6	0	25	10	1	0	11	5	38	0	43	79
Approach %	76.0	24.0	0.0		90.9	9.1	0.0		11.6	88.4	0.0	43	79
Total %	24.1	7.6	0.0	31.6	12.7	1.3	0.0	13.9	6.3	48.1	0.0	54.4	79
Exiting Leg Total				48				11				20	79

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:15 PM	6	2	0	8	0	0	0	0	0	0	0	0	8
12:30 PM	0	0	0	0	0	0	0	0	1	4	0	5	5
12:45 PM	1	0	0	1	1	0	0	1	0	6	0	6	8
1:00 PM	3	1	0	4	1	0	0	1	1	6	0	7	12
Total Volume	10	3	0	13	2	0	0	2	2	16	0	18	33
% Approach Total	76.9	23.1	0.0		100.0	0.0	0.0		11.1	88.9	0.0	18	33
PHF	0.417	0.375	0.000	0.406	0.500	0.000	0.000	0.500	0.500	0.667	0.000	0.643	0.688
Entering Leg	10	3	0	13	2	0	0	2	2	16	0	18	33
Exiting Leg				18				5				10	33
Total				31				7				28	66

PDI File #: 175971 G
 Location: N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)
 Location: E: Beech Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	2	0	0	2	0	0	0	0	0	3	0	3	5
11:15 AM	2	0	0	2	0	0	0	0	1	0	0	1	3
11:30 AM	1	0	0	1	0	1	0	1	0	4	0	4	6
11:45 AM	3	0	0	3	0	0	0	0	0	2	0	2	5
Total	8	0	0	8	0	1	0	1	1	9	0	10	19
12:00 PM	1	0	0	1	0	0	0	0	1	0	0	1	2
12:15 PM	2	1	0	3	0	0	0	0	0	3	0	3	6
12:30 PM	3	0	0	3	0	1	0	1	0	1	0	1	5
12:45 PM	0	0	0	0	1	0	0	1	0	3	0	3	4
Total	6	1	0	7	1	1	0	2	1	7	0	8	17
1:00 PM	1	0	0	1	0	0	0	0	1	1	0	2	3
1:15 PM	3	0	0	3	0	1	0	1	0	2	0	2	6
1:30 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
1:45 PM	2	0	0	2	0	0	0	0	1	3	0	4	6
Total	7	0	0	7	0	1	0	1	2	8	0	10	18
Grand Total	21	1	0	22	1	3	0	4	4	24	0	28	54
Approach %	95.5	4.5	0.0		25.0	75.0	0.0		14.3	85.7	0.0		
Total %	38.9	1.9	0.0	40.7	1.9	5.6	0.0	7.4	7.4	44.4	0.0	51.9	
Exiting Leg Total				25				5				24	54

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)				Beech Street				Massachusetts Ave (Rt 2A)				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	2	0	0	2	0	0	0	0	0	3	0	3	5
11:15 AM	2	0	0	2	0	0	0	0	1	0	0	1	3
11:30 AM	1	0	0	1	0	1	0	1	0	4	0	4	6
11:45 AM	3	0	0	3	0	0	0	0	0	2	0	2	5
Total Volume	8	0	0	8	0	1	0	1	1	9	0	10	19
% Approach Total	100.0	0.0	0.0		0.0	100.0	0.0		10.0	90.0	0.0		
PHF	0.667	0.000	0.000	0.667	0.000	0.250	0.000	0.250	0.250	0.563	0.000	0.625	0.792
Entering Leg	8	0	0	8	0	1	0	1	1	9	0	10	19
Exiting Leg				9				1				9	19
Total				17				2				19	38

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total			
	from North						from East						from South									
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total				
11:00 AM	5	0	0	0	0	5	0	0	0	1	0	1	0	8	0	0	0	8	14			
11:15 AM	7	0	0	0	0	7	2	1	0	0	0	3	1	7	0	0	0	8	18			
11:30 AM	4	0	0	0	0	4	0	1	0	0	0	1	1	16	0	0	0	17	22			
11:45 AM	3	0	0	0	0	3	0	4	0	0	0	4	1	9	1	1	0	12	19			
Total	19	0	0	0	0	19	2	6	0	1	0	9	3	40	1	1	0	45	73			
12:00 PM	5	0	0	0	0	5	0	2	0	0	0	2	2	9	0	0	0	11	18			
12:15 PM	8	0	0	0	0	8	3	2	0	1	0	6	1	9	0	0	0	10	24			
12:30 PM	9	0	0	0	0	9	1	3	0	0	1	5	2	6	0	0	0	8	22			
12:45 PM	7	0	0	0	0	7	0	5	0	0	0	5	0	1	0	0	0	1	13			
Total	29	0	0	0	0	29	4	12	0	1	1	18	5	25	0	0	0	30	77			
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	0	0	8	8			
1:15 PM	6	1	0	0	0	7	1	2	0	1	0	4	3	4	0	0	0	7	18			
1:30 PM	1	0	0	0	0	1	1	2	0	0	0	3	1	5	0	0	1	7	11			
1:45 PM	7	0	0	0	0	7	0	5	0	0	0	5	1	6	0	0	0	7	19			
Total	14	1	0	0	0	15	2	9	0	1	0	12	6	22	0	0	1	29	56			
Grand Total	62	1	0	0	0	63	8	27	0	3	1	39	14	87	1	1	1	104	206			
Approach %	98.4	1.6	0.0	0.0	0.0		20.5	69.2	0.0	7.7	2.6		13.5	83.7	1.0	1.0	1.0					
Total %	30.1	0.5	0.0	0.0	0.0	30.6	3.9	13.1	0.0	1.5	0.5	18.9	6.8	42.2	0.5	0.5	0.5	50.5				
Exiting Leg Total							95							19							92	206

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total			
	from North						from East						from South									
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total				
11:30 AM	4	0	0	0	0	4	0	1	0	0	0	1	1	16	0	0	0	17	22			
11:45 AM	3	0	0	0	0	3	0	4	0	0	0	4	1	9	1	1	0	12	19			
12:00 PM	5	0	0	0	0	5	0	2	0	0	0	2	2	9	0	0	0	11	18			
12:15 PM	8	0	0	0	0	8	3	2	0	1	0	6	1	9	0	0	0	10	24			
Total Volume	20	0	0	0	0	20	3	9	0	1	0	13	5	43	1	1	0	50	83			
% Approach Total	100.0	0.0	0.0	0.0	0.0		23.1	69.2	0.0	7.7	0.0		10.0	86.0	2.0	2.0	0.0					
PHF	0.625	0.000	0.000	0.000	0.000	0.625	0.250	0.563	0.000	0.250	0.000	0.542	0.625	0.672	0.250	0.250	0.000	0.735	0.865			
Entering Leg	20	0	0	0	0	20	3	9	0	1	0	13	5	43	1	1	0	50	83			
Exiting Leg							46							6							31	83
Total							66							19							81	166

PDI File #: **175971 G**
 Location: **N: Massachusetts Ave (Rt 2A) S: Massachusetts Ave (Rt 2A)**
 Location: **E: Beech Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total			
	from North						from East						from South									
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total				
11:00 AM	0	0	0	6	1	7	0	0	0	14	11	25	0	0	0	3	5	8	40			
11:15 AM	0	0	0	0	4	4	0	0	0	13	7	20	0	0	0	6	0	6	30			
11:30 AM	0	0	0	1	4	5	0	0	0	16	27	43	0	0	0	3	5	8	56			
11:45 AM	0	0	0	2	6	8	0	0	0	15	15	30	0	0	0	6	1	7	45			
Total	0	0	0	9	15	24	0	0	0	58	60	118	0	0	0	18	11	29	171			
12:00 PM	0	0	0	5	2	7	0	0	0	13	19	32	0	0	0	2	14	16	55			
12:15 PM	0	0	0	0	3	3	0	0	0	16	7	23	0	0	0	1	1	2	28			
12:30 PM	0	0	0	3	7	10	0	0	0	18	11	29	0	0	0	1	1	2	41			
12:45 PM	0	0	0	5	4	9	0	0	0	13	13	26	0	0	0	1	1	2	37			
Total	0	0	0	13	16	29	0	0	0	60	50	110	0	0	0	5	17	22	161			
1:00 PM	0	0	0	1	0	1	0	0	0	6	15	21	0	0	0	3	3	6	28			
1:15 PM	0	0	0	1	0	1	0	0	0	18	20	38	0	0	0	8	4	12	51			
1:30 PM	0	0	0	4	1	5	0	0	0	14	12	26	0	0	0	1	3	4	35			
1:45 PM	0	0	0	0	1	1	0	0	0	28	7	35	0	0	0	4	2	6	42			
Total	0	0	0	6	2	8	0	0	0	66	54	120	0	0	0	16	12	28	156			
Grand Total	0	0	0	28	33	61	0	0	0	184	164	348	0	0	0	39	40	79	488			
Approach %	0.0	0.0	0.0	45.9	54.1		0.0	0.0	0.0	52.9	47.1		0.0	0.0	0.0	49.4	50.6					
Total %	0.0	0.0	0.0	5.7	6.8	12.5	0.0	0.0	0.0	37.7	33.6	71.3	0.0	0.0	0.0	8.0	8.2	16.2				
Exiting Leg Total							61							348							79	488

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Massachusetts Ave (Rt 2A)						Beech Street						Massachusetts Ave (Rt 2A)						Total			
	from North						from East						from South									
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total				
11:15 AM	0	0	0	0	4	4	0	0	0	13	7	20	0	0	0	6	0	6	30			
11:30 AM	0	0	0	1	4	5	0	0	0	16	27	43	0	0	0	3	5	8	56			
11:45 AM	0	0	0	2	6	8	0	0	0	15	15	30	0	0	0	6	1	7	45			
12:00 PM	0	0	0	5	2	7	0	0	0	13	19	32	0	0	0	2	14	16	55			
Total Volume	0	0	0	8	16	24	0	0	0	57	68	125	0	0	0	17	20	37	186			
% Approach Total	0.0	0.0	0.0	33.3	66.7		0.0	0.0	0.0	45.6	54.4		0.0	0.0	0.0	45.9	54.1					
PHF	0.000	0.000	0.000	0.400	0.667	0.750	0.000	0.000	0.000	0.891	0.630	0.727	0.000	0.000	0.000	0.708	0.357	0.578	0.830			
Entering Leg	0	0	0	8	16	24	0	0	0	57	68	125	0	0	0	17	20	37	186			
Exiting Leg							24							125							37	186
Total							48							250							74	372

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	20	34	0	54	0	0	0	0	0	0	0	0	0	0	5	68	0	0	73	127
7:15 AM	0	26	37	0	63	0	0	0	0	0	0	0	0	0	0	14	92	0	0	106	169
7:30 AM	0	31	18	0	49	0	0	0	0	0	0	0	0	0	0	14	82	0	0	96	145
7:45 AM	0	33	32	0	65	0	0	0	0	0	0	0	0	0	0	21	116	0	0	137	202
Total	0	110	121	0	231	0	0	0	0	0	0	0	0	0	0	54	358	0	0	412	643
8:00 AM	0	44	32	0	76	0	0	0	0	0	0	0	0	0	0	11	115	0	0	126	202
8:15 AM	0	34	26	0	60	0	0	0	0	0	0	0	0	0	0	27	114	0	0	141	201
8:30 AM	0	33	33	0	66	0	0	0	0	0	0	0	0	0	0	19	88	0	0	107	173
8:45 AM	0	26	32	0	58	0	0	0	0	0	0	0	0	0	0	19	115	0	0	134	192
Total	0	137	123	0	260	0	0	0	0	0	0	0	0	0	0	76	432	0	0	508	768
Grand Total	0	247	244	0	491	0	0	0	0	0	0	0	0	0	0	130	790	0	0	920	1411
Approach %	0.0	50.3	49.7	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	85.9	0.0	0.0		
Total %	0.0	17.5	17.3	0.0	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	56.0	0.0	0.0	65.2	
Exiting Leg Total	0					1034					377					0					1411
Cars	0	241	223	0	464	0	0	0	0	0	0	0	0	0	0	126	754	0	0	880	1344
% Cars	0.0	97.6	91.4	0.0	94.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.9	95.4	0.0	0.0	95.7	95.3
Exiting Leg Total	0					977					367					0					1344
Heavy Vehicles	0	6	21	0	27	0	0	0	0	0	0	0	0	0	0	4	36	0	0	40	67
% Heavy Vehicles	0.0	2.4	8.6	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.6	0.0	0.0	4.3	4.7
Exiting Leg Total	0					57					10					0					67

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	33	32	0	65	0	0	0	0	0	0	0	0	0	0	21	116	0	0	137	202
8:00 AM	0	44	32	0	76	0	0	0	0	0	0	0	0	0	0	11	115	0	0	126	202
8:15 AM	0	34	26	0	60	0	0	0	0	0	0	0	0	0	0	27	114	0	0	141	201
8:30 AM	0	33	33	0	66	0	0	0	0	0	0	0	0	0	0	19	88	0	0	107	173
Total Volume	0	144	123	0	267	0	0	0	0	0	0	0	0	0	0	78	433	0	0	511	778
% Approach Total	0.0	53.9	46.1	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	84.7	0.0	0.0		
PHF	0.000	0.818	0.932	0.000	0.878	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.722	0.933	0.000	0.000	0.906	0.963
Cars	0	142	112	0	254	0	0	0	0	0	0	0	0	0	0	76	414	0	0	490	744
Cars %	0.0	98.6	91.1	0.0	95.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.4	95.6	0.0	0.0	95.9	95.6
Heavy Vehicles	0	2	11	0	13	0	0	0	0	0	0	0	0	0	0	2	19	0	0	21	34
Heavy Vehicles %	0.0	1.4	8.9	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.4	0.0	0.0	4.1	4.4
Cars Enter Leg	0	142	112	0	254	0	0	0	0	0	0	0	0	0	0	76	414	0	0	490	744
Heavy Enter Leg	0	2	11	0	13	0	0	0	0	0	0	0	0	0	0	2	19	0	0	21	34
Total Entering Leg	0	144	123	0	267	0	0	0	0	0	0	0	0	0	0	78	433	0	0	511	778
Cars Exiting Leg	0					526					218					0					744
Heavy Exiting Leg	0					30					4					0					34
Total Exiting Leg	0					556					222					0					778

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	19	31	0	50	0	0	0	0	0	0	0	0	0	0	5	65	0	0	70	120
7:15 AM	0	23	34	0	57	0	0	0	0	0	0	0	0	0	0	14	87	0	0	101	158
7:30 AM	0	31	17	0	48	0	0	0	0	0	0	0	0	0	0	13	77	0	0	90	138
7:45 AM	0	33	28	0	61	0	0	0	0	0	0	0	0	0	0	20	109	0	0	129	190
Total	0	106	110	0	216	0	0	0	0	0	0	0	0	0	0	52	338	0	0	390	606
8:00 AM	0	43	29	0	72	0	0	0	0	0	0	0	0	0	0	11	112	0	0	123	195
8:15 AM	0	33	25	0	58	0	0	0	0	0	0	0	0	0	0	27	110	0	0	137	195
8:30 AM	0	33	30	0	63	0	0	0	0	0	0	0	0	0	0	18	83	0	0	101	164
8:45 AM	0	26	29	0	55	0	0	0	0	0	0	0	0	0	0	18	111	0	0	129	184
Total	0	135	113	0	248	0	0	0	0	0	0	0	0	0	0	74	416	0	0	490	738
Grand Total	0	241	223	0	464	0	0	0	0	0	0	0	0	0	0	126	754	0	0	880	1344
Approach %	0.0	51.9	48.1	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		14.3	85.7	0.0	0.0		
Total %	0.0	17.9	16.6	0.0	34.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	56.1	0.0	0.0	65.5	
Exiting Leg Total	0					977					367					0					1344

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	33	28	0	61	0	0	0	0	0	0	0	0	0	0	20	109	0	0	129	190
7:45 AM	0	33	28	0	61	0	0	0	0	0	0	0	0	0	0	20	109	0	0	129	190
8:00 AM	0	43	29	0	72	0	0	0	0	0	0	0	0	0	0	11	112	0	0	123	195
8:15 AM	0	33	25	0	58	0	0	0	0	0	0	0	0	0	0	27	110	0	0	137	195
8:30 AM	0	33	30	0	63	0	0	0	0	0	0	0	0	0	0	18	83	0	0	101	164
Total Volume	0	142	112	0	254	0	0	0	0	0	0	0	0	0	0	76	414	0	0	490	744
% Approach Total	0.0	55.9	44.1	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		15.5	84.5	0.0	0.0		
PHF	0.000	0.826	0.933	0.000	0.882	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.704	0.924	0.000	0.000	0.894	0.954
Entering Leg	0	142	112	0	254	0	0	0	0	0	0	0	0	0	0	76	414	0	0	490	744
Exiting Leg	0					526					218					0					744
Total	254					526					218					490					1488

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	7
7:15 AM	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	11
7:30 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	7
7:45 AM	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	12
Total	0	4	11	0	15	0	0	0	0	0	0	0	0	0	0	2	20	0	0	22	37
8:00 AM	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	7
8:15 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	6
8:30 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	9
8:45 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	8
Total	0	2	10	0	12	0	0	0	0	0	0	0	0	0	0	2	16	0	0	18	30
Grand Total	0	6	21	0	27	0	0	0	0	0	0	0	0	0	0	4	36	0	0	40	67
Approach %	0.0	22.2	77.8	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	90.0	0.0	0.0		
Total %	0.0	9.0	31.3	0.0	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	53.7	0.0	0.0	59.7	
Exiting Leg Total	0					57					10					0					67
Large Trucks	0	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	35
% Large Trucks	0.0	83.3	23.8	0.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.4	0.0	0.0	62.5	52.2
Exiting Leg Total	0					30					5					0					35
Buses	0	1	16	0	17	0	0	0	0	0	0	0	0	0	0	4	11	0	0	15	32
% Buses	0.0	16.7	76.2	0.0	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	30.6	0.0	0.0	37.5	47.8
Exiting Leg Total	0					27					5					0					32

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	7
7:15 AM	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	11
7:30 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	7
7:45 AM	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	12
Total Volume	0	4	11	0	15	0	0	0	0	0	0	0	0	0	0	2	20	0	0	22	37
% Approach Total	0.0	26.7	73.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	90.9	0.0	0.0		
PHF	0.000	0.333	0.688	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.714	0.000	0.000	0.688	0.771
Large Trucks	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	18
Large Trucks %	0.0	100.0	9.1	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.0	0.0	0.0	59.1	48.6
Buses	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	2	7	0	0	9	19
Buses %	0.0	0.0	90.9	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	35.0	0.0	0.0	40.9	51.4
Trucks Enter Leg	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	18
Bus Enter Leg	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	2	7	0	0	9	19
Total Entering Leg	0	4	11	0	15	0	0	0	0	0	0	0	0	0	0	2	20	0	0	22	37
Trucks Exiting Leg	0					14					4					0					18
Buses Exiting Leg	0					17					2					0					19
Total Exiting Leg	0					31					6					0					37

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	6
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	4
7:45 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	5
Total	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	18
8:00 AM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
8:30 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	5
8:45 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	4
Total	0	1	4	0	5	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	17
Grand Total	0	5	5	0	10	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	35
Approach %	0.0	50.0	50.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	14.3	14.3	0.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4	0.0	0.0	71.4	
Exiting Leg Total	0					30					5					0					35

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	6
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	4
7:45 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	5
8:00 AM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5
Total Volume	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	20
% Approach Total	0.0	50.0	50.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.250	0.375	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.875	0.000	0.000	0.875	0.833
Entering Leg	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	20
Exiting Leg	0					17					3					0					20
Total	6					17					3					14					40

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
7:15 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	5
7:30 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	3
7:45 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	7
Total	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	2	7	0	0	9	19
8:00 AM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
8:30 AM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	4
8:45 AM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	4
Total	0	1	6	0	7	0	0	0	0	0	0	0	0	0	0	2	4	0	0	6	13
Grand Total	0	1	16	0	17	0	0	0	0	0	0	0	0	0	0	4	11	0	0	15	32
Approach %	0.0	5.9	94.1	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		26.7	73.3	0.0	0.0		
Total %	0.0	3.1	50.0	0.0	53.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	34.4	0.0	0.0	46.9	
Exiting Leg Total	0					27					5					0					32

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
7:15 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	5
7:30 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	3
7:45 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	7
Total Volume	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	2	7	0	0	9	19
% Approach Total	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		22.2	77.8	0.0	0.0		
PHF	0.000	0.000	0.833	0.000	0.833	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.583	0.000	0.000	0.563	0.679
Entering Leg	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	2	7	0	0	9	19
Exiting Leg	0					17					2					0					19
Total	10					17					2					9					38

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



Bicycles (on Roadway and Crosswalks)

	Summer Street								Cutter Avenue								Summer Street								Cutter Avenue								Total			
	from North								from East								from South								from West											
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total					
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	2	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2	2	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3	3	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	7	7	7	7	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3	3	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	5	5	5	
8:30 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	
Total	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9	9	9	10	
Grand Total	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15	0	0	0	0	0	16	16	17	17	
Approach %	0.0	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	93.8	0.0	0.0	0.0	0.0	0.0						
Total %	0.0	0.0	5.9	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	88.2	0.0	0.0	0.0	0.0	0.0	94.1					
Exiting Leg Total	0								16								1								0								0	17		

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Summer Street								Cutter Avenue								Summer Street								Cutter Avenue								Total		
	from North								from East								from South								from West										
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total				
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2	2	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3	3	3
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3	3	3
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	5	5	5	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13	13	13	13	13
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0					
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.650	0.000	0.000	0.000	0.000	0.650	0.650	0.650	0.650	0.650	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13	13	13	13	13
Exiting Leg	0								13								0								0								0	13	
Total	0								13								0								13								0	26	

PDI File #: 175971 H
 Location: N: Summer Street S: Summer Street
 Location: E: Cutter Avenue W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Summer Street							Cutter Avenue							Summer Street							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	2	0	2	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	4
7:15 AM	0	0	0	0	2	0	2	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	2	0	2	8
7:30 AM	0	0	0	0	3	1	4	0	0	0	0	1	6	7	0	0	0	0	1	0	1	0	0	0	0	2	0	2	14
7:45 AM	0	0	0	0	6	0	6	0	0	0	0	3	6	9	0	0	0	0	0	0	0	0	0	0	0	5	1	6	21
Total	0	0	0	0	13	1	14	0	0	0	0	9	12	21	0	0	0	0	2	0	2	0	0	0	0	9	1	10	47
8:00 AM	0	0	0	0	2	0	2	0	0	0	0	1	12	13	0	0	0	0	0	2	2	0	0	0	0	1	2	3	20
8:15 AM	0	0	0	0	1	1	2	0	0	0	0	1	7	8	0	0	0	0	2	0	2	0	0	0	0	6	2	8	20
8:30 AM	0	0	0	0	2	0	2	0	0	0	0	7	8	15	0	0	0	0	1	1	2	0	0	0	0	1	0	1	20
8:45 AM	0	0	0	0	1	2	3	0	0	0	0	3	3	6	0	0	0	0	1	1	2	0	0	0	0	3	0	3	14
Total	0	0	0	0	6	3	9	0	0	0	0	12	30	42	0	0	0	0	4	4	8	0	0	0	0	11	4	15	74
Grand Total	0	0	0	0	19	4	23	0	0	0	0	21	42	63	0	0	0	0	6	4	10	0	0	0	0	20	5	25	121
Approach %	0.0	0.0	0.0	0.0	82.6	17.4	0.0	0.0	0.0	0.0	33.3	66.7	0.0	0.0	0.0	0.0	60.0	40.0	0.0	0.0	0.0	0.0	80.0	20.0					
Total %	0.0	0.0	0.0	0.0	15.7	3.3	19.0	0.0	0.0	0.0	0.0	17.4	34.7	52.1	0.0	0.0	0.0	0.0	5.0	3.3	8.3	0.0	0.0	0.0	0.0	16.5	4.1	20.7	
Exiting Leg Total	23							63							10							25	121						

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Summer Street							Cutter Avenue							Summer Street							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:45 AM	0	0	0	0	6	0	6	0	0	0	0	3	6	9	0	0	0	0	0	0	0	0	0	0	0	5	1	6	21
7:45 AM	0	0	0	0	2	0	2	0	0	0	0	1	12	13	0	0	0	0	0	2	2	0	0	0	0	1	2	3	20
8:00 AM	0	0	0	0	1	1	2	0	0	0	0	1	7	8	0	0	0	0	2	0	2	0	0	0	0	6	2	8	20
8:15 AM	0	0	0	0	2	0	2	0	0	0	0	7	8	15	0	0	0	0	1	1	2	0	0	0	0	1	0	1	20
Total Volume	0	0	0	0	11	1	12	0	0	0	0	12	33	45	0	0	0	0	3	3	6	0	0	0	0	13	5	18	81
% Approach Total	0.0	0.0	0.0	0.0	91.7	8.3	0.0	0.0	0.0	0.0	26.7	73.3	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	72.2	27.8					
PHF	0.000	0.000	0.000	0.000	0.458	0.250	0.500	0.000	0.000	0.000	0.000	0.429	0.688	0.750	0.000	0.000	0.000	0.000	0.375	0.375	0.750	0.000	0.000	0.000	0.000	0.542	0.625	0.563	0.964
Entering Leg	0	0	0	0	11	1	12	0	0	0	0	12	33	45	0	0	0	0	3	3	6	0	0	0	0	13	5	18	81
Exiting Leg	12							45							6							18	81						
Total	24							90							12							36	162						

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	29	34	0	63	0	0	0	0	0	0	0	0	0	0	18	136	0	0	154	217
4:15 PM	0	23	30	0	53	0	0	0	0	0	0	0	0	0	0	14	161	0	0	175	228
4:30 PM	0	30	28	0	58	0	0	0	0	0	0	0	0	0	0	19	165	0	0	184	242
4:45 PM	0	26	33	0	59	0	0	0	0	0	1	0	0	0	1	29	142	0	0	171	231
Total	0	108	125	0	233	0	0	0	0	0	1	0	0	0	1	80	604	0	0	684	918
5:00 PM	0	26	43	0	69	0	0	0	0	0	0	0	0	0	0	26	162	0	0	188	257
5:15 PM	0	23	28	0	51	0	0	0	0	0	0	0	0	0	0	19	164	0	0	183	234
5:30 PM	0	41	43	0	84	0	0	1	0	1	0	0	0	0	0	21	173	0	0	194	279
5:45 PM	0	24	42	0	66	0	0	0	0	0	0	0	0	0	0	22	148	0	0	170	236
Total	0	114	156	0	270	0	0	1	0	1	0	0	0	0	0	88	647	0	0	735	1006
Grand Total	0	222	281	0	503	0	0	1	0	1	1	0	0	0	1	168	1251	0	0	1419	1924
Approach %	0.0	44.1	55.9	0.0		0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		11.8	88.2	0.0	0.0		
Total %	0.0	11.5	14.6	0.0	26.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	8.7	65.0	0.0	0.0	73.8	
Exiting Leg Total	0					1533					391					0					1924
Cars	0	219	266	0	485	0	0	1	0	1	1	0	0	0	1	165	1225	0	0	1390	1877
% Cars	0.0	98.6	94.7	0.0	96.4	0.0	0.0	100.0	0.0	100.0	100.0	0.0	0.0	0.0	100.0	98.2	97.9	0.0	0.0	98.0	97.6
Exiting Leg Total	0					1492					385					0					1877
Heavy Vehicles	0	3	15	0	18	0	0	0	0	0	0	0	0	0	0	3	26	0	0	29	47
% Heavy Vehicles	0.0	1.4	5.3	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.1	0.0	0.0	2.0	2.4
Exiting Leg Total	0					41					6					0					47

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	26	43	0	69	0	0	0	0	0	0	0	0	0	0	26	162	0	0	188	257
5:15 PM	0	23	28	0	51	0	0	0	0	0	0	0	0	0	0	19	164	0	0	183	234
5:30 PM	0	41	43	0	84	0	0	1	0	1	0	0	0	0	0	21	173	0	0	194	279
5:45 PM	0	24	42	0	66	0	0	0	0	0	0	0	0	0	0	22	148	0	0	170	236
Total Volume	0	114	156	0	270	0	0	1	0	1	0	0	0	0	0	88	647	0	0	735	1006
% Approach Total	0.0	42.2	57.8	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		12.0	88.0	0.0	0.0		
PHF	0.000	0.695	0.907	0.000	0.804	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.846	0.935	0.000	0.000	0.947	0.901
Cars	0	112	148	0	260	0	0	1	0	1	0	0	0	0	0	87	633	0	0	720	981
Cars %	0.0	98.2	94.9	0.0	96.3	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	98.9	97.8	0.0	0.0	98.0	97.5
Heavy Vehicles	0	2	8	0	10	0	0	0	0	0	0	0	0	0	0	1	14	0	0	15	25
Heavy Vehicles %	0.0	1.8	5.1	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	0.0	0.0	2.0	2.5
Cars Enter Leg	0	112	148	0	260	0	0	1	0	1	0	0	0	0	0	87	633	0	0	720	981
Heavy Enter Leg	0	2	8	0	10	0	0	0	0	0	0	0	0	0	0	1	14	0	0	15	25
Total Entering Leg	0	114	156	0	270	0	0	1	0	1	0	0	0	0	0	88	647	0	0	735	1006
Cars Exiting Leg	0					781					200					0					981
Heavy Exiting Leg	0					22					3					0					25
Total Exiting Leg	0					803					203					0					1006

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	29	32	0	61	0	0	0	0	0	0	0	0	0	0	18	132	0	0	150	211
4:15 PM	0	23	28	0	51	0	0	0	0	0	0	0	0	0	0	14	158	0	0	172	223
4:30 PM	0	29	25	0	54	0	0	0	0	0	0	0	0	0	0	17	162	0	0	179	233
4:45 PM	0	26	33	0	59	0	0	0	0	0	1	0	0	0	1	29	140	0	0	169	229
Total	0	107	118	0	225	0	0	0	0	0	1	0	0	0	1	78	592	0	0	670	896
5:00 PM	0	26	42	0	68	0	0	0	0	0	0	0	0	0	0	26	157	0	0	183	251
5:15 PM	0	23	26	0	49	0	0	0	0	0	0	0	0	0	0	19	161	0	0	180	229
5:30 PM	0	39	38	0	77	0	0	1	0	1	0	0	0	0	0	21	171	0	0	192	270
5:45 PM	0	24	42	0	66	0	0	0	0	0	0	0	0	0	0	21	144	0	0	165	231
Total	0	112	148	0	260	0	0	1	0	1	0	0	0	0	0	87	633	0	0	720	981
Grand Total	0	219	266	0	485	0	0	1	0	1	1	0	0	0	1	165	1225	0	0	1390	1877
Approach %	0.0	45.2	54.8	0.0		0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		11.9	88.1	0.0	0.0		
Total %	0.0	11.7	14.2	0.0	25.8	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	8.8	65.3	0.0	0.0	74.1	
Exiting Leg Total	0					1492					385					0					1877

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	26	42	0	68	0	0	0	0	0	0	0	0	0	0	26	157	0	0	183	251
5:15 PM	0	23	26	0	49	0	0	0	0	0	0	0	0	0	0	19	161	0	0	180	229
5:30 PM	0	39	38	0	77	0	0	1	0	1	0	0	0	0	0	21	171	0	0	192	270
5:45 PM	0	24	42	0	66	0	0	0	0	0	0	0	0	0	0	21	144	0	0	165	231
Total Volume	0	112	148	0	260	0	0	1	0	1	0	0	0	0	0	87	633	0	0	720	981
% Approach Total	0.0	43.1	56.9	0.0		0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		12.1	87.9	0.0	0.0		
PHF	0.000	0.718	0.881	0.000	0.844	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.837	0.925	0.000	0.000	0.938	0.908
Entering Leg	0	112	148	0	260	0	0	1	0	1	0	0	0	0	0	87	633	0	0	720	981
Exiting Leg	0					781					200					0					981
Total	260					782					200					720					1962

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	6
4:15 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5
4:30 PM	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	2	3	0	0	5	9
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
Total	0	1	7	0	8	0	0	0	0	0	0	0	0	0	0	2	12	0	0	14	22
5:00 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	6
5:15 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5
5:30 PM	0	2	5	0	7	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	9
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	5
Total	0	2	8	0	10	0	0	0	0	0	0	0	0	0	0	1	14	0	0	15	25
Grand Total	0	3	15	0	18	0	0	0	0	0	0	0	0	0	0	3	26	0	0	29	47
Approach %	0.0	16.7	83.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	89.7	0.0	0.0		
Total %	0.0	6.4	31.9	0.0	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	55.3	0.0	0.0	61.7	
Exiting Leg Total	0					41					6					0					47
Large Trucks	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	1	10	0	0	11	15
% Large Trucks	0.0	33.3	20.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	38.5	0.0	0.0	37.9	31.9
Exiting Leg Total	0					13					2					0					15
Buses	0	2	12	0	14	0	0	0	0	0	0	0	0	0	0	2	16	0	0	18	32
% Buses	0.0	66.7	80.0	0.0	77.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	61.5	0.0	0.0	62.1	68.1
Exiting Leg Total	0					28					4					0					32

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	6
4:15 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5
4:30 PM	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	2	3	0	0	5	9
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
Total Volume	0	1	7	0	8	0	0	0	0	0	0	0	0	0	0	2	12	0	0	14	22
% Approach Total	0.0	12.5	87.5	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	85.7	0.0	0.0		
PHF	0.000	0.250	0.583	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.750	0.000	0.000	0.700	0.611
Large Trucks	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	9
Large Trucks %	0.0	100.0	28.6	0.0	37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	41.7	0.0	0.0	42.9	40.9
Buses	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	13
Buses %	0.0	0.0	71.4	0.0	62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	58.3	0.0	0.0	57.1	59.1
Trucks Enter Leg	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	9
Bus Enter Leg	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	13
Total Entering Leg	0	1	7	0	8	0	0	0	0	0	0	0	0	0	0	2	12	0	0	14	22
Trucks Exiting Leg	0					7					2					0					9
Buses Exiting Leg	0					12					1					0					13
Total Exiting Leg	0					19					3					0					22

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Large Trucks

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3
4:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
4:30 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	4
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	9
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Total	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	6
Grand Total	0	1	3	0	4	0	0	0	0	0	0	0	0	0	0	1	10	0	0	11	15
Approach %	0.0	25.0	75.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		9.1	90.9	0.0	0.0		
Total %	0.0	6.7	20.0	0.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	66.7	0.0	0.0	73.3	
Exiting Leg Total	0					13					2					0					15

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3
4:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
4:30 PM	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	4
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	9
% Approach Total	0.0	33.3	66.7	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		16.7	83.3	0.0	0.0		
PHF	0.000	0.250	0.500	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.417	0.000	0.000	0.500	0.563
Entering Leg	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	9
Exiting Leg	0					7					2					0					9
Total	3					7					2					6					18

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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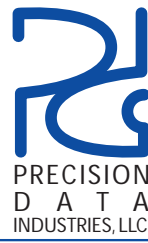
Buses

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3
4:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
4:30 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	5
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
Total	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	13
5:00 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
5:15 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5
5:30 PM	0	2	4	0	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	7
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	4
Total	0	2	7	0	9	0	0	0	0	0	0	0	0	0	0	1	9	0	0	10	19
Grand Total	0	2	12	0	14	0	0	0	0	0	0	0	0	0	0	2	16	0	0	18	32
Approach %	0.0	14.3	85.7	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		11.1	88.9	0.0	0.0		
Total %	0.0	6.3	37.5	0.0	43.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	50.0	0.0	0.0	56.3	
Exiting Leg Total	0					28					4					0					32

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3
4:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
4:30 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	5
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
Total Volume	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	13
% Approach Total	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		12.5	87.5	0.0	0.0		
PHF	0.000	0.000	0.625	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.875	0.000	0.000	0.667	0.650
Entering Leg	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	13
Exiting Leg	0					12					1					0					13
Total	5					12					1					8					26

PDI File #: 175971 H
 Location: N: Summer Street S: Summer Street
 Location: E: Cutter Avenue W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Summer Street								Cutter Avenue								Summer Street								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	7	
4:15 PM	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	4	
4:30 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2		
4:45 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	4	
Total	0	1	6	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	9	0	0	0	9	17	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	10	
5:15 PM	0	1	0	0	1	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	13	
5:30 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7	10		
5:45 PM	0	2	2	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	11	0	0	0	0	0	12	19		
Total	0	6	2	0	2	0	10	0	0	0	0	0	1	1	0	0	0	0	0	0	2	2	1	38	0	0	0	0	0	39	52		
Grand Total	0	7	8	0	2	0	17	0	0	0	0	0	1	1	0	0	0	0	0	3	3	1	47	0	0	0	0	0	48	69			
Approach %	0.0	41.2	47.1	0.0	11.8	0.0		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	0.0	100.0		2.1	97.9	0.0	0.0	0.0	0.0						
Total %	0.0	10.1	11.6	0.0	2.9	0.0	24.6	0.0	0.0	0.0	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	4.3	4.3	1.4	68.1	0.0	0.0	0.0	0.0	0.0	69.6				
Exiting Leg Total	2							56							11							0							69				

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Summer Street								Cutter Avenue								Summer Street								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	10		
5:15 PM	0	1	0	0	1	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10	13			
5:30 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7	10				
5:45 PM	0	2	2	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	11	0	0	0	0	0	12	19			
Total Volume	0	6	2	0	2	0	10	0	0	0	0	0	1	1	0	0	0	0	0	2	2	1	38	0	0	0	0	0	39	52			
% Approach Total	0.0	60.0	20.0	0.0	20.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	0.0	100.0		2.6	97.4	0.0	0.0	0.0	0.0						
PHF	0.000	0.500	0.250	0.000	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.250	0.250		0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.864	0.000	0.000	0.000	0.000	0.813	0.684				
Entering Leg	0	6	2	0	2	0	10	0	0	0	0	0	1	1	0	0	0	0	0	2	2	1	38	0	0	0	0	0	39	52			
Exiting Leg	2							41							9							0							52				
Total	12							42							11							39							104				

PDI File #: 175971 H
 Location: N: Summer Street S: Summer Street
 Location: E: Cutter Avenue W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Summer Street								Cutter Avenue								Summer Street								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	0	0	4	1	5	0	0	0	0	4	1	5	0	0	0	0	4	0	4	0	0	0	0	0	1	1	15				
4:15 PM	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	1	1	5			
4:30 PM	0	0	0	0	0	1	1	0	0	0	0	9	9	18	0	0	0	0	1	3	4	0	0	0	0	0	0	3	3	26			
4:45 PM	0	0	0	0	4	3	7	0	0	0	0	7	8	15	0	0	0	0	1	4	5	0	0	0	0	0	0	2	2	29			
Total	0	0	0	0	8	7	15	0	0	0	0	20	18	38	0	0	0	0	7	8	15	0	0	0	0	0	0	7	7	75			
5:00 PM	0	0	0	0	5	5	10	0	0	0	0	6	12	18	0	0	0	0	4	8	12	0	0	0	0	5	2	7	47				
5:15 PM	0	0	0	0	4	0	4	0	0	0	0	4	10	14	0	0	0	0	3	6	9	0	0	0	0	4	2	6	33				
5:30 PM	0	0	0	0	9	2	11	0	0	0	0	8	9	17	0	0	0	0	1	1	2	0	0	0	0	3	1	4	34				
5:45 PM	0	0	0	0	4	0	4	0	0	0	0	8	16	24	0	0	0	0	2	10	12	0	0	0	0	4	0	4	44				
Total	0	0	0	0	22	7	29	0	0	0	0	26	47	73	0	0	0	0	10	25	35	0	0	0	0	16	5	21	158				
Grand Total	0	0	0	0	30	14	44	0	0	0	0	46	65	111	0	0	0	0	17	33	50	0	0	0	0	16	12	28	233				
Approach %	0.0	0.0	0.0	0.0	68.2	31.8		0.0	0.0	0.0	0.0	41.4	58.6		0.0	0.0	0.0	0.0	34.0	66.0		0.0	0.0	0.0	0.0	57.1	42.9						
Total %	0.0	0.0	0.0	0.0	12.9	6.0	18.9	0.0	0.0	0.0	0.0	19.7	27.9	47.6	0.0	0.0	0.0	0.0	7.3	14.2	21.5	0.0	0.0	0.0	0.0	6.9	5.2	12.0					
Exiting Leg Total	44							111							50							28							233				

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Summer Street								Cutter Avenue								Summer Street								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
5:00 PM	0	0	0	0	5	5	10	0	0	0	0	6	12	18	0	0	0	0	4	8	12	0	0	0	0	5	2	7	47				
5:15 PM	0	0	0	0	4	0	4	0	0	0	0	4	10	14	0	0	0	0	3	6	9	0	0	0	0	4	2	6	33				
5:30 PM	0	0	0	0	9	2	11	0	0	0	0	8	9	17	0	0	0	0	1	1	2	0	0	0	0	3	1	4	34				
5:45 PM	0	0	0	0	4	0	4	0	0	0	0	8	16	24	0	0	0	0	2	10	12	0	0	0	0	4	0	4	44				
Total Volume	0	0	0	0	22	7	29	0	0	0	0	26	47	73	0	0	0	0	10	25	35	0	0	0	0	16	5	21	158				
% Approach Total	0.0	0.0	0.0	0.0	75.9	24.1		0.0	0.0	0.0	0.0	35.6	64.4		0.0	0.0	0.0	0.0	28.6	71.4		0.0	0.0	0.0	0.0	76.2	23.8						
PHF	0.000	0.000	0.000	0.000	0.611	0.350	0.659	0.000	0.000	0.000	0.000	0.813	0.734	0.760	0.000	0.000	0.000	0.000	0.625	0.625	0.729	0.000	0.000	0.000	0.000	0.800	0.625	0.750	0.840				
Entering Leg	0	0	0	0	22	7	29	0	0	0	0	26	47	73	0	0	0	0	10	25	35	0	0	0	0	16	5	21	158				
Exiting Leg	29							73							35							21							158				
Total	58							146							70							42							316				

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	29	27	0	56	0	0	0	0	0	0	0	0	0	0	20	108	2	0	130	186
11:15 AM	0	31	46	0	77	0	0	0	0	0	0	0	0	0	0	15	120	0	0	135	212
11:30 AM	1	28	51	0	80	0	0	0	0	0	0	0	0	0	0	27	109	0	0	136	216
11:45 AM	0	27	45	0	72	0	0	0	0	0	0	0	0	0	0	28	113	0	0	141	213
Total	1	115	169	0	285	0	0	0	0	0	0	0	0	0	0	90	450	2	0	542	827
12:00 PM	0	27	65	0	92	0	0	0	0	0	0	0	0	0	0	22	114	0	0	136	228
12:15 PM	0	23	40	0	63	0	0	0	0	0	0	0	0	0	0	9	122	0	0	131	194
12:30 PM	0	33	45	0	78	0	0	0	0	0	0	0	0	0	0	16	138	0	0	154	232
12:45 PM	0	34	36	0	70	0	0	0	0	0	1	0	0	0	1	34	141	0	0	175	246
Total	0	117	186	0	303	0	0	0	0	0	1	0	0	0	1	81	515	0	0	596	900
1:00 PM	0	22	41	0	63	0	0	0	0	0	0	0	0	0	0	17	124	0	0	141	204
1:15 PM	0	28	48	0	76	0	0	0	0	0	0	0	0	0	0	21	128	0	0	149	225
1:30 PM	0	24	46	0	70	0	0	0	0	0	0	0	0	0	0	23	101	0	0	124	194
1:45 PM	0	23	34	0	57	0	0	0	0	0	0	0	0	0	0	19	134	0	0	153	210
Total	0	97	169	0	266	0	0	0	0	0	0	0	0	0	0	80	487	0	0	567	833
Grand Total	1	329	524	0	854	0	0	0	0	0	1	0	0	0	1	251	1452	2	0	1705	2560
Approach %	0.1	38.5	61.4	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		14.7	85.2	0.1	0.0		
Total %	0.0	12.9	20.5	0.0	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	56.7	0.1	0.0	66.6	
Exiting Leg Total	2					1977					580					1					2560
Cars	1	328	507	0	836	0	0	0	0	0	1	0	0	0	1	248	1423	1	0	1672	2509
% Cars	100.0	99.7	96.8	0.0	97.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	98.8	98.0	50.0	0.0	98.1	98.0
Exiting Leg Total	1					1931					576					1					2509
Heavy Vehicles	0	1	17	0	18	0	0	0	0	0	0	0	0	0	0	3	29	1	0	33	51
% Heavy Vehicles	0.0	0.3	3.2	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.0	50.0	0.0	1.9	2.0
Exiting Leg Total	1					46					4					0					51

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	33	45	0	78	0	0	0	0	0	0	0	0	0	0	16	138	0	0	154	232
12:45 PM	0	34	36	0	70	0	0	0	0	0	1	0	0	0	1	34	141	0	0	175	246
1:00 PM	0	22	41	0	63	0	0	0	0	0	0	0	0	0	0	17	124	0	0	141	204
1:15 PM	0	28	48	0	76	0	0	0	0	0	0	0	0	0	0	21	128	0	0	149	225
Total Volume	0	117	170	0	287	0	0	0	0	0	1	0	0	0	1	88	531	0	0	619	907
% Approach Total	0.0	40.8	59.2	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		14.2	85.8	0.0	0.0		
PHF	0.000	0.860	0.885	0.000	0.920	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.647	0.941	0.000	0.000	0.884	0.922
Cars	0	117	164	0	281	0	0	0	0	0	1	0	0	0	1	87	521	0	0	608	890
Cars %	0.0	100.0	96.5	0.0	97.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	98.9	98.1	0.0	0.0	98.2	98.1
Heavy Vehicles	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	1	10	0	0	11	17
Heavy Vehicles %	0.0	0.0	3.5	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.9	0.0	0.0	1.8	1.9
Cars Enter Leg	0	117	164	0	281	0	0	0	0	0	1	0	0	0	1	87	521	0	0	608	890
Heavy Enter Leg	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	1	10	0	0	11	17
Total Entering Leg	0	117	170	0	287	0	0	0	0	0	1	0	0	0	1	88	531	0	0	619	907
Cars Exiting Leg	0					686					204					0					890
Heavy Exiting Leg	0					16					1					0					17
Total Exiting Leg	0					702					205					0					907

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Cars

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	29	25	0	54	0	0	0	0	0	0	0	0	0	0	19	106	1	0	126	180
11:15 AM	0	31	42	0	73	0	0	0	0	0	0	0	0	0	0	15	116	0	0	131	204
11:30 AM	1	28	51	0	80	0	0	0	0	0	0	0	0	0	0	27	107	0	0	134	214
11:45 AM	0	27	45	0	72	0	0	0	0	0	0	0	0	0	0	28	112	0	0	140	212
Total	1	115	163	0	279	0	0	0	0	0	0	0	0	0	0	89	441	1	0	531	810
12:00 PM	0	27	61	0	88	0	0	0	0	0	0	0	0	0	0	21	110	0	0	131	219
12:15 PM	0	23	39	0	62	0	0	0	0	0	0	0	0	0	0	9	120	0	0	129	191
12:30 PM	0	33	45	0	78	0	0	0	0	0	0	0	0	0	0	16	137	0	0	153	231
12:45 PM	0	34	36	0	70	0	0	0	0	0	1	0	0	0	1	33	138	0	0	171	242
Total	0	117	181	0	298	0	0	0	0	0	1	0	0	0	1	79	505	0	0	584	883
1:00 PM	0	22	39	0	61	0	0	0	0	0	0	0	0	0	0	17	121	0	0	138	199
1:15 PM	0	28	44	0	72	0	0	0	0	0	0	0	0	0	0	21	125	0	0	146	218
1:30 PM	0	24	46	0	70	0	0	0	0	0	0	0	0	0	0	23	101	0	0	124	194
1:45 PM	0	22	34	0	56	0	0	0	0	0	0	0	0	0	0	19	130	0	0	149	205
Total	0	96	163	0	259	0	0	0	0	0	0	0	0	0	0	80	477	0	0	557	816
Grand Total	1	328	507	0	836	0	0	0	0	0	1	0	0	0	1	248	1423	1	0	1672	2509
Approach %	0.1	39.2	60.6	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		14.8	85.1	0.1	0.0		
Total %	0.0	13.1	20.2	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	56.7	0.0	0.0	66.6	
Exiting Leg Total	1					1931					576					1					2509

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	33	45	0	78	0	0	0	0	0	0	0	0	0	0	16	137	0	0	153	231
12:45 PM	0	34	36	0	70	0	0	0	0	0	1	0	0	0	1	33	138	0	0	171	242
1:00 PM	0	22	39	0	61	0	0	0	0	0	0	0	0	0	0	17	121	0	0	138	199
1:15 PM	0	28	44	0	72	0	0	0	0	0	0	0	0	0	0	21	125	0	0	146	218
Total Volume	0	117	164	0	281	0	0	0	0	0	1	0	0	0	1	87	521	0	0	608	890
% Approach Total	0.0	41.6	58.4	0.0		0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		14.3	85.7	0.0	0.0		
PHF	0.000	0.860	0.911	0.000	0.901	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.659	0.944	0.000	0.000	0.889	0.919
Entering Leg	0	117	164	0	281	0	0	0	0	0	1	0	0	0	1	87	521	0	0	608	890
Exiting Leg	0					686					204					0					890
Total	281					686					205					608					1780

PDI File #: 175971 H
 Location: N: Summer Street S: Summer Street
 Location: E: Cutter Avenue W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	2	1	0	4	6
11:15 AM	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	8
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Total	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	1	9	1	0	11	17
12:00 PM	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	9
12:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	4
Total	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	2	10	0	0	12	17
1:00 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5
1:15 PM	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	7
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	5
Total	0	1	6	0	7	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	17
Grand Total	0	1	17	0	18	0	0	0	0	0	0	0	0	0	0	3	29	1	0	33	51
Approach %	0.0	5.6	94.4	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		9.1	87.9	3.0	0.0		
Total %	0.0	2.0	33.3	0.0	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	56.9	2.0	0.0	64.7	
Exiting Leg Total	1					46					4					0					51
Large Trucks	0	1	6	0	7	0	0	0	0	0	0	0	0	0	0	3	15	0	0	18	25
% Large Trucks	0.0	100.0	35.3	0.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	51.7	0.0	0.0	54.5	49.0
Exiting Leg Total	0					21					4					0					25
Buses	0	0	11	0	11	0	0	0	0	0	0	0	0	0	0	0	14	1	0	15	26
% Buses	0.0	0.0	64.7	0.0	61.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3	100.0	0.0	45.5	51.0
Exiting Leg Total	1					25					0					0					26

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	8
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12:00 PM	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	9
Total Volume	0	0	8	0	8	0	0	0	0	0	0	0	0	0	0	1	11	0	0	12	20
% Approach Total	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		8.3	91.7	0.0	0.0		
PHF	0.000	0.000	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.688	0.000	0.000	0.600	0.556
Large Trucks	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	10
Large Trucks %	0.0	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	45.5	0.0	0.0	50.0	50.0
Buses	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	10
Buses %	0.0	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	0.0	0.0	50.0	50.0
Trucks Enter Leg	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	10
Bus Enter Leg	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	10
Total Entering Leg	0	0	8	0	8	0	0	0	0	0	0	0	0	0	0	1	11	0	0	12	20
Trucks Exiting Leg	0					9					1					0					10
Buses Exiting Leg	0					10					0					0					10
Total Exiting Leg	0					19					1					0					20

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	3
11:15 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	8
12:00 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	5
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	3
Total	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	7	0	0	9	10
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
1:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3
Total	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	7
Grand Total	0	1	6	0	7	0	0	0	0	0	0	0	0	0	0	3	15	0	0	18	25
Approach %	0.0	14.3	85.7	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		16.7	83.3	0.0	0.0		
Total %	0.0	4.0	24.0	0.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	60.0	0.0	0.0	72.0	
Exiting Leg Total	0					21					4					0					25

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	5
Total Volume	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	10
% Approach Total	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		16.7	83.3	0.0	0.0		
PHF	0.000	0.000	0.333	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.417	0.000	0.000	0.375	0.500
Entering Leg	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	10
Exiting Leg	0					9					1					0					10
Total	4					9					1					6					20

PDI File #: **175971 H**
 Location: **N: Summer Street S: Summer Street**
 Location: **E: Cutter Avenue W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	3
11:15 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	4
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Total	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	6	1	0	7	9
12:00 PM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
12:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Total	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	7
1:00 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4
1:15 PM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
Total	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	10
Grand Total	0	0	11	0	11	0	0	0	0	0	0	0	0	0	0	0	14	1	0	15	26
Approach %	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	93.3	6.7	0.0		
Total %	0.0	0.0	42.3	0.0	42.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.8	3.8	0.0	57.7	
Exiting Leg Total						1					25					0					26

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Summer Street					Cutter Avenue					Summer Street					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	4
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12:00 PM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4
Total Volume	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	10
% Approach Total	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.000	0.333	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500	0.625
Entering Leg	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	10
Exiting Leg						0					10					0					10
Total						4					10					0					20

PDI File #: 175971 H
 Location: N: Summer Street S: Summer Street
 Location: E: Cutter Avenue W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
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 Email: datarequests@pdillc.com

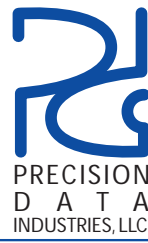
Bicycles (on Roadway and Crosswalks)

	Summer Street							Cutter Avenue							Summer Street							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4		
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	6	0	0	2	8		
11:30 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3		
11:45 AM	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2			
Total	0	2	2	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0	0	2	0	14	0	0	2	16			
12:00 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1			
12:15 PM	0	0	1	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2			
12:30 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3			
12:45 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5			
Total	0	0	4	0	2	0	6	0	0	0	0	0	0	0	0	0	0	1	1	0	9	2	0	0	0	11			
1:00 PM	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0	0	1			
1:15 PM	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	8			
1:30 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	1	0	3	0	0	0	0	3			
1:45 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3			
Total	0	3	3	0	2	0	8	0	0	0	0	0	0	0	0	0	1	2	3	0	14	1	0	0	0	15			
Grand Total	0	5	9	0	4	0	18	0	0	0	0	0	0	0	2	0	0	1	3	6	0	37	3	0	2	42			
Approach %	0.0	27.8	50.0	0.0	22.2	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	16.7	50.0		0.0	88.1	7.1	0.0	4.8	0.0			
Total %	0.0	7.6	13.6	0.0	6.1	0.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1.5	4.5	9.1	0.0	56.1	4.5	0.0	3.0	0.0			
Exiting Leg Total	9							46							9							2							66

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Summer Street							Cutter Avenue							Summer Street							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
12:45 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5		
1:00 PM	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0	0	1			
1:15 PM	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	8			
1:30 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	1	0	3	0	0	0	0	3			
Total Volume	0	1	4	0	2	0	7	0	0	0	0	0	0	0	0	0	1	2	3	0	16	1	0	0	0	17			
% Approach Total	0.0	14.3	57.1	0.0	28.6	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	66.7		0.0	94.1	5.9	0.0	0.0	0.0				
PHF	0.000	0.250	0.500	0.000	0.250	0.000	0.875	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.375	0.000	0.571	0.250	0.000	0.000	0.531				
Entering Leg	0	1	4	0	2	0	7	0	0	0	0	0	0	0	0	0	1	2	3	0	16	1	0	0	0	17			
Exiting Leg	3							20							4							0							
Total	10							20							7							17							54

PDI File #: 175971 H
 Location: N: Summer Street S: Summer Street
 Location: E: Cutter Avenue W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Summer Street							Cutter Avenue							Summer Street							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	14	9	23	0	0	0	0	18	31	49	0	0	0	0	4	8	12	0	0	0	0	2	1	3	87
11:15 AM	0	0	0	0	9	11	20	0	0	0	0	20	24	44	0	0	0	0	4	12	16	0	0	0	0	0	1	1	81
11:30 AM	0	0	0	0	6	14	20	0	0	0	0	28	26	54	0	0	0	0	7	10	17	0	0	0	0	6	2	8	99
11:45 AM	0	0	0	0	13	8	21	0	0	0	0	34	23	57	0	0	0	0	11	9	20	0	0	0	0	4	3	7	105
Total	0	0	0	0	42	42	84	0	0	0	0	100	104	204	0	0	0	0	26	39	65	0	0	0	0	12	7	19	372
12:00 PM	0	0	0	0	6	8	14	0	0	0	0	24	22	46	0	0	0	0	9	7	16	0	0	0	0	4	3	7	83
12:15 PM	0	0	0	0	13	11	24	0	0	0	0	27	25	52	0	0	0	0	11	17	28	0	0	0	0	2	2	4	108
12:30 PM	0	0	0	0	9	9	18	0	0	0	0	24	31	55	0	0	0	0	8	18	26	0	0	0	0	3	0	3	102
12:45 PM	0	0	0	0	17	17	34	0	0	0	0	15	14	29	0	0	0	0	5	3	8	0	0	0	0	7	1	8	79
Total	0	0	0	0	45	45	90	0	0	0	0	90	92	182	0	0	0	0	33	45	78	0	0	0	0	16	6	22	372
1:00 PM	0	0	0	0	3	11	14	0	0	0	0	24	7	31	0	0	0	0	10	4	14	0	0	0	0	4	1	5	64
1:15 PM	0	0	0	0	16	8	24	0	0	0	0	18	19	37	0	0	0	0	7	10	17	0	0	0	0	2	2	4	82
1:30 PM	0	0	0	0	17	8	25	0	0	0	0	26	28	54	0	0	0	0	8	13	21	0	0	0	0	3	6	9	109
1:45 PM	0	0	0	0	9	18	27	0	0	0	0	19	24	43	0	0	0	0	9	13	22	0	0	0	0	9	5	14	106
Total	0	0	0	0	45	45	90	0	0	0	0	87	78	165	0	0	0	0	34	40	74	0	0	0	0	18	14	32	361
Grand Total	0	0	0	0	132	132	264	0	0	0	0	277	274	551	0	0	0	0	93	124	217	0	0	0	0	46	27	73	1105
Approach %	0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	50.3	49.7		0.0	0.0	0.0	0.0	42.9	57.1		0.0	0.0	0.0	0.0	63.0	37.0		
Total %	0.0	0.0	0.0	0.0	11.9	11.9	23.9	0.0	0.0	0.0	0.0	25.1	24.8	49.9	0.0	0.0	0.0	0.0	8.4	11.2	19.6	0.0	0.0	0.0	0.0	4.2	2.4	6.6	
Exiting Leg Total	264							551							217							73							1105

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Summer Street							Cutter Avenue							Summer Street							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:45 AM	0	0	0	0	13	8	21	0	0	0	0	34	23	57	0	0	0	0	11	9	20	0	0	0	0	4	3	7	105
12:00 PM	0	0	0	0	6	8	14	0	0	0	0	24	22	46	0	0	0	0	9	7	16	0	0	0	0	4	3	7	83
12:15 PM	0	0	0	0	13	11	24	0	0	0	0	27	25	52	0	0	0	0	11	17	28	0	0	0	0	2	2	4	108
12:30 PM	0	0	0	0	13	11	24	0	0	0	0	27	25	52	0	0	0	0	11	17	28	0	0	0	0	2	2	4	108
Total Volume	0	0	0	0	45	38	83	0	0	0	0	112	95	207	0	0	0	0	42	50	92	0	0	0	0	12	10	22	404
% Approach Total	0.0	0.0	0.0	0.0	54.2	45.8		0.0	0.0	0.0	0.0	54.1	45.9		0.0	0.0	0.0	0.0	45.7	54.3		0.0	0.0	0.0	0.0	54.5	45.5		
PHF	0.000	0.000	0.000	0.000	0.865	0.864	0.865	0.000	0.000	0.000	0.000	0.824	0.950	0.908	0.000	0.000	0.000	0.000	0.955	0.735	0.821	0.000	0.000	0.000	0.000	0.750	0.833	0.786	0.935
Entering Leg	0	0	0	0	45	38	83	0	0	0	0	112	95	207	0	0	0	0	42	50	92	0	0	0	0	12	10	22	404
Exiting Leg	83							207							92							22							404
Total	166							414							184							44							808

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	2	0	0	0	2	0	108	0	0	108	50	0	50	0	100	210
7:15 AM	0	0	0	0	0	1	0	0	0	1	0	138	0	0	138	53	0	79	0	132	271
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	148	0	0	148	28	0	63	0	91	239
7:45 AM	0	0	0	0	0	1	0	0	0	1	0	150	0	0	150	50	0	96	0	146	297
Total	0	0	0	0	0	4	0	0	0	4	0	544	0	0	544	181	0	288	0	469	1017
8:00 AM	0	0	0	0	0	2	0	0	0	2	0	169	0	0	169	57	0	89	0	146	317
8:15 AM	0	0	0	0	0	2	0	0	0	2	0	146	0	0	146	47	0	90	0	137	285
8:30 AM	0	0	1	0	1	1	0	0	0	1	2	134	0	0	136	54	0	66	0	120	258
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	146	0	0	146	54	0	91	0	145	291
Total	0	0	1	0	1	5	0	0	0	5	2	595	0	0	597	212	0	336	0	548	1151
Grand Total	0	0	1	0	1	9	0	0	0	9	2	1139	0	0	1141	393	0	624	0	1017	2168
Approach %	0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		0.2	99.8	0.0	0.0		38.6	0.0	61.4	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.1	52.5	0.0	0.0	52.6	18.1	0.0	28.8	0.0	46.9	
Exiting Leg Total	1772					3					393					0					2168
Cars	0	0	1	0	1	9	0	0	0	9	2	1103	0	0	1105	369	0	589	0	958	2073
% Cars	0.0	0.0	100.0	0.0	100.0	100.0	0.0	0.0	0.0	100.0	100.0	96.8	0.0	0.0	96.8	93.9	0.0	94.4	0.0	94.2	95.6
Exiting Leg Total	1701					3					369					0					2073
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	36	0	0	36	24	0	35	0	59	95
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	3.2	6.1	0.0	5.6	0.0	5.8	4.4
Exiting Leg Total	71					0					24					0					95

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	0	0	0	0	1	0	0	0	1	0	150	0	0	150	50	0	96	0	146	297
8:00 AM	0	0	0	0	0	2	0	0	0	2	0	169	0	0	169	57	0	89	0	146	317
8:15 AM	0	0	0	0	0	2	0	0	0	2	0	146	0	0	146	47	0	90	0	137	285
8:30 AM	0	0	1	0	1	1	0	0	0	1	2	134	0	0	136	54	0	66	0	120	258
Total Volume	0	0	1	0	1	6	0	0	0	6	2	599	0	0	601	208	0	341	0	549	1157
% Approach Total	0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		0.3	99.7	0.0	0.0		37.9	0.0	62.1	0.0		
PHF	0.000	0.000	0.250	0.000	0.250	0.750	0.000	0.000	0.000	0.750	0.250	0.886	0.000	0.000	0.889	0.912	0.000	0.888	0.000	0.940	0.912
Cars	0	0	1	0	1	6	0	0	0	6	2	582	0	0	584	194	0	324	0	518	1109
Cars %	0.0	0.0	100.0	0.0	100.0	100.0	0.0	0.0	0.0	100.0	100.0	97.2	0.0	0.0	97.2	93.3	0.0	95.0	0.0	94.4	95.9
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	17	0	0	17	14	0	17	0	31	48
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	6.7	0.0	5.0	0.0	5.6	4.1
Cars Enter Leg	0	0	1	0	1	6	0	0	0	6	2	582	0	0	584	194	0	324	0	518	1109
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	0	17	0	0	17	14	0	17	0	31	48
Total Entering Leg	0	0	1	0	1	6	0	0	0	6	2	599	0	0	601	208	0	341	0	549	1157
Cars Exiting Leg	912					3					194					0					1109
Heavy Exiting Leg	34					0					14					0					48
Total Exiting Leg	946					3					208					0					1157

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	2	0	0	0	2	0	105	0	0	105	47	0	48	0	95	202
7:15 AM	0	0	0	0	0	1	0	0	0	1	0	131	0	0	131	51	0	72	0	123	255
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	142	0	0	142	27	0	58	0	85	227
7:45 AM	0	0	0	0	0	1	0	0	0	1	0	145	0	0	145	46	0	88	0	134	280
Total	0	0	0	0	0	4	0	0	0	4	0	523	0	0	523	171	0	266	0	437	964
8:00 AM	0	0	0	0	0	2	0	0	0	2	0	165	0	0	165	55	0	87	0	142	309
8:15 AM	0	0	0	0	0	2	0	0	0	2	0	143	0	0	143	45	0	86	0	131	276
8:30 AM	0	0	1	0	1	1	0	0	0	1	2	129	0	0	131	48	0	63	0	111	244
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	143	0	0	143	50	0	87	0	137	280
Total	0	0	1	0	1	5	0	0	0	5	2	580	0	0	582	198	0	323	0	521	1109
Grand Total	0	0	1	0	1	9	0	0	0	9	2	1103	0	0	1105	369	0	589	0	958	2073
Approach %	0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		0.2	99.8	0.0	0.0		38.5	0.0	61.5	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.1	53.2	0.0	0.0	53.3	17.8	0.0	28.4	0.0	46.2	
Exiting Leg Total	1701					3					369					0					2073

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	0	0	0	0	0	1	0	0	0	1	0	145	0	0	145	46	0	88	0	134	280
7:45 AM	0	0	0	0	0	2	0	0	0	2	0	165	0	0	165	55	0	87	0	142	309
8:00 AM	0	0	0	0	0	2	0	0	0	2	0	143	0	0	143	45	0	86	0	131	276
8:15 AM	0	0	0	0	0	2	0	0	0	2	0	143	0	0	143	45	0	86	0	131	276
8:30 AM	0	0	1	0	1	1	0	0	0	1	2	129	0	0	131	48	0	63	0	111	244
Total Volume	0	0	1	0	1	6	0	0	0	6	2	582	0	0	584	194	0	324	0	518	1109
% Approach Total	0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		0.3	99.7	0.0	0.0		37.5	0.0	62.5	0.0		
PHF	0.000	0.000	0.250	0.000	0.250	0.750	0.000	0.000	0.000	0.750	0.250	0.882	0.000	0.000	0.885	0.882	0.000	0.920	0.000	0.912	0.897
Entering Leg	0	0	1	0	1	6	0	0	0	6	2	582	0	0	584	194	0	324	0	518	1109
Exiting Leg	912					3					194					0					1109
Total	913					9					778					518					2218

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3	0	2	0	5	8
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	2	0	7	0	9	16
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	1	0	5	0	6	12
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	4	0	8	0	12	17
Total	0	0	0	0	0	0	0	0	0	0	0	21	0	0	21	10	0	22	0	32	53
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	2	0	2	0	4	8
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	4	0	6	9
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	6	0	3	0	9	14
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	4	0	4	0	8	11
Total	0	0	0	0	0	0	0	0	0	0	0	15	0	0	15	14	0	13	0	27	42
Grand Total	0	0	0	0	0	0	0	0	0	0	0	36	0	0	36	24	0	35	0	59	95
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		40.7	0.0	59.3	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.9	0.0	0.0	37.9	25.3	0.0	36.8	0.0	62.1	
Exiting Leg Total	71					0					24					0					95
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	14	0	19	0	33	57
% Large Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	0.0	66.7	58.3	0.0	54.3	0.0	55.9	60.0
Exiting Leg Total	43					0					14					0					57
Buses	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	10	0	16	0	26	38
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3	41.7	0.0	45.7	0.0	44.1	40.0
Exiting Leg Total	28					0					10					0					38

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3	0	2	0	5	8
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	2	0	7	0	9	16
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	1	0	5	0	6	12
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	4	0	8	0	12	17
Total Volume	0	0	0	0	0	0	0	0	0	0	0	21	0	0	21	10	0	22	0	32	53
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		31.3	0.0	68.8	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.750	0.625	0.000	0.688	0.000	0.667	0.779
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	6	0	10	0	16	29
Large Trucks %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.9	0.0	0.0	61.9	60.0	0.0	45.5	0.0	50.0	54.7
Buses	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	4	0	12	0	16	24
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1	0.0	0.0	38.1	40.0	0.0	54.5	0.0	50.0	45.3
Trucks Enter Leg	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	6	0	10	0	16	29
Bus Enter Leg	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	4	0	12	0	16	24
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	21	0	0	21	10	0	22	0	32	53
Trucks Exiting Leg	23					0					6					0					29
Buses Exiting Leg	20					0					4					0					24
Total Exiting Leg	43					0					10					0					53

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class: **Large Trucks**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	0	0	3	4	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	1	0	2	0	3	8	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	5	0	5	9	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	3	0	5	8	
Total	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	6	0	10	0	16	29	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	1	0	2	0	3	7	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	2	0	3	6	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4	0	3	0	7	9	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	2	0	4	6	
Total	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	8	0	9	0	17	28	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24	14	0	19	0	33	57	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	42.4	0.0	57.6	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.1	0.0	0.0	42.1	24.6	0.0	33.3	0.0	57.9		
Exiting Leg Total						43					0					14					0	57

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	1	0	2	0	3	8	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	5	0	5	9	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	3	0	5	8	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	1	0	2	0	3	7	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	16	0	0	16	4	0	12	0	16	32	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	25.0	0.0	75.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800	0.000	0.000	0.800	0.500	0.000	0.600	0.000	0.800	0.889	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	16	0	0	16	4	0	12	0	16	32	
Exiting Leg						28					0					4					0	32
Total						28					0					20					16	64

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

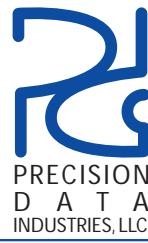
Buses

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	2	0	2	4
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	5	0	6	8
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	0	0	1	3
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	5	0	7	9
Total	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	4	0	12	0	16	24
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3	3
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	0	0	2	5
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	2	0	4	5
Total	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	6	0	4	0	10	14
Grand Total	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	10	0	16	0	26	38
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	38.5	0.0	61.5	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	31.6	26.3	0.0	42.1	0.0	68.4	
Exiting Leg Total	28					0					10					0					38

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	2	0	2	4
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	5	0	6	8
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	0	0	1	3
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	5	0	7	9
Total Volume	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	4	0	12	0	16	24
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	25.0	0.0	75.0	0.0	0.0	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	1.000	0.500	0.000	0.600	0.000	0.571	0.667
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	4	0	12	0	16	24
Exiting Leg	20					0					4					0					24
Total	20					0					12					16					48

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Highland Avenue								Ellington Road								Highland Avenue								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0	2	0	0	0	0	0	0	3			
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2	0	0	0	3			
7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2				
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0	0	0	4			
Total	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	5	0	0	0	0	0	5	0	0	5	0	0	0	12			
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	2	0	0	0	5			
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	4	0	0	0	0	0	4	0	0	6	0	0	0	11			
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	2			
8:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	1	0	0	0	4			
Total	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	10	0	0	0	0	0	10	1	0	9	0	0	0	22			
Grand Total	0	0	0	0	1	0	1	2	0	1	0	0	0	3	0	15	0	0	0	0	0	15	1	0	14	0	0	0	15	34			
Approach %	0.0	0.0	0.0	0.0	100.0	0.0		66.7	0.0	33.3	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0	0.0	0.0		6.7	0.0	93.3	0.0	0.0	0.0					
Total %	0.0	0.0	0.0	0.0	2.9	0.0	2.9	5.9	0.0	2.9	0.0	0.0	0.0	8.8	0.0	44.1	0.0	0.0	0.0	0.0	0.0	44.1	2.9	0.0	41.2	0.0	0.0	0.0	44.1				
Exiting Leg Total	32								0								2								0								34

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue								Ellington Road								Highland Avenue								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2			
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0	0	0	4			
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	2	0	0	0	5			
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	4	0	0	0	0	0	4	0	0	6	0	0	0	11			
Total Volume	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	9	0	0	0	0	0	9	0	0	11	0	0	0	11	22			
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		50.0	0.0	50.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0					
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.500	0.000	0.563	0.000	0.000	0.000	0.000	0.000	0.563	0.000	0.000	0.458	0.000	0.000	0.000	0.458	0.500			
Entering Leg	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	9	0	0	0	0	0	9	0	0	11	0	0	0	11	22			
Exiting Leg	21								0								1								0								22
Total	21								2								10								11								44

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Highland Avenue							Ellington Road							Highland Avenue							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	11	14	0	0	0	0	1	2	3	0	0	0	0	3	4	7	24
7:15 AM	0	0	0	0	2	0	2	0	0	0	0	1	8	9	0	0	0	0	0	3	3	0	0	0	0	2	6	8	22
7:30 AM	0	0	0	0	2	0	2	0	0	0	0	1	12	13	0	0	0	0	3	2	5	0	0	0	0	3	0	3	23
7:45 AM	0	0	0	0	2	1	3	0	0	0	0	1	9	10	0	0	0	0	1	1	2	0	0	0	0	5	1	6	21
Total	0	0	0	0	6	1	7	0	0	0	0	6	40	46	0	0	0	0	5	8	13	0	0	0	0	13	11	24	90
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	18	20	0	0	0	0	1	2	3	0	0	0	0	7	4	11	34
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	1	8	9	0	0	0	0	3	0	3	0	0	0	0	6	2	8	21
8:30 AM	0	0	0	0	2	1	3	0	0	0	0	0	24	24	0	0	0	0	0	8	8	0	0	0	0	5	1	6	41
8:45 AM	0	0	0	0	0	1	1	0	0	0	0	5	17	22	0	0	0	0	2	2	4	0	0	0	0	3	2	5	32
Total	0	0	0	0	3	2	5	0	0	0	0	8	67	75	0	0	0	0	6	12	18	0	0	0	0	21	9	30	128
Grand Total	0	0	0	0	9	3	12	0	0	0	0	14	107	121	0	0	0	0	11	20	31	0	0	0	0	34	20	54	218
Approach %	0.0	0.0	0.0	0.0	75.0	25.0		0.0	0.0	0.0	0.0	11.6	88.4		0.0	0.0	0.0	0.0	35.5	64.5		0.0	0.0	0.0	0.0	63.0	37.0		
Total %	0.0	0.0	0.0	0.0	4.1	1.4	5.5	0.0	0.0	0.0	0.0	6.4	49.1	55.5	0.0	0.0	0.0	0.0	5.0	9.2	14.2	0.0	0.0	0.0	0.0	15.6	9.2	24.8	
Exiting Leg Total	12							121							31							54							218

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue							Ellington Road							Highland Avenue							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	18	20	0	0	0	0	1	2	3	0	0	0	0	7	4	11	34
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	1	8	9	0	0	0	0	3	0	3	0	0	0	0	6	2	8	21
8:30 AM	0	0	0	0	2	1	3	0	0	0	0	0	24	24	0	0	0	0	0	8	8	0	0	0	0	5	1	6	41
8:45 AM	0	0	0	0	0	1	1	0	0	0	0	5	17	22	0	0	0	0	2	2	4	0	0	0	0	3	2	5	32
Total Volume	0	0	0	0	3	2	5	0	0	0	0	8	67	75	0	0	0	0	6	12	18	0	0	0	0	21	9	30	128
% Approach Total	0.0	0.0	0.0	0.0	60.0	40.0		0.0	0.0	0.0	0.0	10.7	89.3		0.0	0.0	0.0	0.0	33.3	66.7		0.0	0.0	0.0	0.0	70.0	30.0		
PHF	0.000	0.000	0.000	0.000	0.375	0.500	0.417	0.000	0.000	0.000	0.000	0.400	0.698	0.781	0.000	0.000	0.000	0.000	0.500	0.375	0.563	0.000	0.000	0.000	0.000	0.750	0.563	0.682	0.780
Entering Leg	0	0	0	0	3	2	5	0	0	0	0	8	67	75	0	0	0	0	6	12	18	0	0	0	0	21	9	30	128
Exiting Leg	5							75							18							30							128
Total	10							150							36							60							256

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	114	0	0	114	55	0	107	0	162	276
4:15 PM	0	0	0	0	0	2	0	0	0	2	0	118	0	0	118	62	0	122	0	184	304
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	103	0	0	103	68	0	132	0	200	303
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	114	0	0	114	58	0	115	0	173	287
Total	0	0	0	0	0	2	0	0	0	2	0	449	0	0	449	243	0	476	0	719	1170
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	106	0	0	107	62	1	134	0	197	304
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	111	0	0	112	67	0	115	0	182	294
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	109	0	0	109	80	0	129	0	209	318
5:45 PM	0	0	0	0	0	1	0	0	0	1	0	140	0	0	140	80	1	102	0	183	324
Total	0	0	0	0	0	1	0	0	0	1	2	466	0	0	468	289	2	480	0	771	1240
Grand Total	0	0	0	0	0	3	0	0	0	3	2	915	0	0	917	532	2	956	0	1490	2410
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.2	99.8	0.0	0.0		35.7	0.1	64.2	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	38.0	0.0	0.0	38.0	22.1	0.1	39.7	0.0	61.8	
Exiting Leg Total	1874					4					532					0					2410
Cars	0	0	0	0	0	3	0	0	0	3	2	893	0	0	895	520	2	932	0	1454	2352
% Cars	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	100.0	97.6	0.0	0.0	97.6	97.7	100.0	97.5	0.0	97.6	97.6
Exiting Leg Total	1828					4					520					0					2352
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	22	0	0	22	12	0	24	0	36	58
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	2.4	2.3	0.0	2.5	0.0	2.4	2.4
Exiting Leg Total	46					0					12					0					58

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	106	0	0	107	62	1	134	0	197	304
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	111	0	0	112	67	0	115	0	182	294
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	109	0	0	109	80	0	129	0	209	318
5:45 PM	0	0	0	0	0	1	0	0	0	1	0	140	0	0	140	80	1	102	0	183	324
Total Volume	0	0	0	0	0	1	0	0	0	1	2	466	0	0	468	289	2	480	0	771	1240
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.4	99.6	0.0	0.0		37.5	0.3	62.3	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.500	0.832	0.000	0.000	0.836	0.903	0.500	0.896	0.000	0.922	0.957
Cars	0	0	0	0	0	1	0	0	0	1	2	453	0	0	455	284	2	467	0	753	1209
Cars %	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	100.0	97.2	0.0	0.0	97.2	98.3	100.0	97.3	0.0	97.7	97.5
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	5	0	13	0	18	31
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	1.7	0.0	2.7	0.0	2.3	2.5
Cars Enter Leg	0	0	0	0	0	1	0	0	0	1	2	453	0	0	455	284	2	467	0	753	1209
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	5	0	13	0	18	31
Total Entering Leg	0	0	0	0	0	1	0	0	0	1	2	466	0	0	468	289	2	480	0	771	1240
Cars Exiting Leg	921					4					284					0					1209
Heavy Exiting Leg	26					0					5					0					31
Total Exiting Leg	947					4					289					0					1240

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	113	0	0	113	54	0	102	0	156	269
4:15 PM	0	0	0	0	0	2	0	0	0	2	0	115	0	0	115	60	0	119	0	179	296
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	102	0	0	102	65	0	129	0	194	296
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	110	0	0	110	57	0	115	0	172	282
Total	0	0	0	0	0	2	0	0	0	2	0	440	0	0	440	236	0	465	0	701	1143
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	103	0	0	104	61	1	131	0	193	297
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	106	0	0	107	66	0	111	0	177	284
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	108	0	0	108	77	0	127	0	204	312
5:45 PM	0	0	0	0	0	1	0	0	0	1	0	136	0	0	136	80	1	98	0	179	316
Total	0	0	0	0	0	1	0	0	0	1	2	453	0	0	455	284	2	467	0	753	1209
Grand Total	0	0	0	0	0	3	0	0	0	3	2	893	0	0	895	520	2	932	0	1454	2352
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.2	99.8	0.0	0.0		35.8	0.1	64.1	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	38.0	0.0	0.0	38.1	22.1	0.1	39.6	0.0	61.8	
Exiting Leg Total	1828					4					520					0					2352

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	103	0	0	104	61	1	131	0	193	297
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	106	0	0	107	66	0	111	0	177	284
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	108	0	0	108	77	0	127	0	204	312
5:45 PM	0	0	0	0	0	1	0	0	0	1	0	136	0	0	136	80	1	98	0	179	316
Total Volume	0	0	0	0	0	1	0	0	0	1	2	453	0	0	455	284	2	467	0	753	1209
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.4	99.6	0.0	0.0		37.7	0.3	62.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.500	0.833	0.000	0.000	0.836	0.888	0.500	0.891	0.000	0.923	0.956
Entering Leg	0	0	0	0	0	1	0	0	0	1	2	453	0	0	455	284	2	467	0	753	1209
Exiting Leg	921					4					284					0					1209
Total	921					5					739					753					2418

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	5	0	6	7
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	3	0	5	8
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	3	0	6	7
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	1	0	0	0	1	5
Total	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	7	0	11	0	18	27
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	3	0	4	7
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	1	0	4	0	5	10
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	2	0	5	6
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	4	0	4	8
Total	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	5	0	13	0	18	31
Grand Total	0	0	0	0	0	0	0	0	0	0	0	22	0	0	22	12	0	24	0	36	58
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		33.3	0.0	66.7	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.9	0.0	0.0	37.9	20.7	0.0	41.4	0.0	62.1	
Exiting Leg Total	46					0					12					0					58
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	2	0	8	0	10	16
% Large Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	0.0	0.0	27.3	16.7	0.0	33.3	0.0	27.8	27.6
Exiting Leg Total	14					0					2					0					16
Buses	0	0	0	0	0	0	0	0	0	0	0	16	0	0	16	10	0	16	0	26	42
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.7	0.0	0.0	72.7	83.3	0.0	66.7	0.0	72.2	72.4
Exiting Leg Total	32					0					10					0					42

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	3	0	4	7
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	1	0	4	0	5	10
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	2	0	5	6
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	4	0	4	8
Total Volume	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	5	0	13	0	18	31
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		27.8	0.0	72.2	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.650	0.000	0.000	0.650	0.417	0.000	0.813	0.000	0.900	0.775
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	3	0	3	7
Large Trucks %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	0.0	0.0	30.8	0.0	0.0	23.1	0.0	16.7	22.6
Buses	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	5	0	10	0	15	24
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.2	0.0	0.0	69.2	100.0	0.0	76.9	0.0	83.3	77.4
Trucks Enter Leg	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	3	0	3	7
Bus Enter Leg	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	5	0	10	0	15	24
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	5	0	13	0	18	31
Trucks Exiting Leg	7					0					0					0					7
Buses Exiting Leg	19					0					5					0					24
Total Exiting Leg	26					0					5					0					31

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class: **Large Trucks**



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	2	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	5	0	7	9
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
Total	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	3	0	3	7
Grand Total	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	2	0	8	0	10	16
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		20.0	0.0	80.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	0.0	0.0	37.5	12.5	0.0	50.0	0.0	62.5	
Exiting Leg Total	14					0					2					0					16

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	2	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	5	0	7	9
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		28.6	0.0	71.4	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500	0.500	0.000	0.417	0.000	0.583	0.750
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	5	0	7	9
Exiting Leg	7					0					2					0					9
Total	7					0					4					7					18

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2	0	3	4	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	2	0	3	5	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	2	0	4	5	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	4	
Total	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	5	0	6	0	11	18	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	2	0	3	6	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	4	0	5	7	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	1	0	4	5	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	3	0	3	6	
Total	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	5	0	10	0	15	24	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	16	0	0	16	10	0	16	0	26	42	
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		38.5	0.0	61.5	0.0			
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1	0.0	0.0	38.1	23.8	0.0	38.1	0.0	61.9		
Exiting Leg Total						32					0					10					0	42

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2	0	3	4	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	2	0	3	5	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	2	0	4	5	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	4	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	5	0	6	0	11	18	
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		45.5	0.0	54.5	0.0			
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.000	0.000	0.583	0.625	0.000	0.750	0.000	0.688	0.900	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	5	0	6	0	11	18	
Exiting Leg						13					0					5					0	18
Total						13					0					12					11	36

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

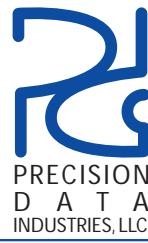
Bicycles (on Roadway and Crosswalks)

	Highland Avenue								Ellington Road								Highland Avenue								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	5	5	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	3	3	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	3	3	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	8	0	0	1	12	12	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	0	0	0	0	0	0	1	1	0	8	0	0	0	9	12		
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	9	0	0	0	9	10			
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	5	0	0	0	5	7			
5:45 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	0	0	0	11	12		
Total	0	0	0	0	1	0	1	0	0	0	0	1	1	2	0	4	0	0	0	0	0	4	2	0	32	0	0	0	34	41			
Grand Total	0	0	0	0	1	0	1	0	0	0	0	1	1	2	0	4	0	0	0	0	0	4	5	0	40	0	0	1	46	53			
Approach %	0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	50.0	50.0		0.0	100.0	0.0	0.0	0.0	0.0			10.9	0.0	87.0	0.0	0.0	2.2					
Total %	0.0	0.0	0.0	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	1.9	1.9	3.8	0.0	7.5	0.0	0.0	0.0	0.0	0.0	7.5	9.4	0.0	75.5	0.0	0.0	1.9	86.8				
Exiting Leg Total	45								2								5								1								53

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue								Ellington Road								Highland Avenue								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	0	0	0	0	0	1	1	0	8	0	0	0	9	12			
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	9	0	0	0	9	10			
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	5	0	0	0	5	7			
5:45 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	0	0	0	11	12		
Total Volume	0	0	0	0	1	0	1	0	0	0	0	1	1	2	0	4	0	0	0	0	0	4	2	0	32	0	0	0	34	41			
% Approach Total	0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	50.0	50.0		0.0	100.0	0.0	0.0	0.0	0.0			5.9	0.0	94.1	0.0	0.0	0.0					
PHF	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.000	0.500	0.000	0.000	0.000	0.000	0.500	0.500	0.000	0.800	0.000	0.000	0.000	0.773	0.854				
Entering Leg	0	0	0	0	1	0	1	0	0	0	0	1	1	2	0	4	0	0	0	0	0	4	2	0	32	0	0	0	34	41			
Exiting Leg	37								2								2								0								41
Total	38								4								6								34								82

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Highland Avenue								Ellington Road								Highland Avenue								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	3	5		0	0	0	0	2	1	3		0	0	0	0	4	4	8		16	
4:15 PM	0	0	0	0	0	1	1	0	0	0	0	2	0	2		0	0	0	0	3	1	4		0	0	0	0	2	4	6		13	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	3	1	4		0	0	0	0	4	2	6		0	0	0	0	1	0	1		11	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	4	6		0	0	0	0	4	3	7		0	0	0	0	5	4	9		22	
Total	0	0	0	0	0	1	1	0	0	0	0	9	8	17		0	0	0	0	13	7	20		0	0	0	0	12	12	24		62	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	10	6	16		0	0	0	0	2	6	8		0	0	0	0	2	9	11		35	
5:15 PM	0	0	0	0	0	1	1	0	0	0	0	8	12	20		0	0	0	0	5	5	10		0	0	0	0	8	8	16		47	
5:30 PM	0	0	0	0	1	0	1	0	0	0	0	8	10	18		0	0	0	0	4	4	8		0	0	0	0	11	10	21		48	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	21	8	29		0	0	0	0	13	9	22		0	0	0	0	5	9	14		65	
Total	0	0	0	0	1	1	2	0	0	0	0	47	36	83		0	0	0	0	24	24	48		0	0	0	0	26	36	62		195	
Grand Total	0	0	0	0	1	2	3	0	0	0	0	56	44	100		0	0	0	0	37	31	68		0	0	0	0	38	48	86		257	
Approach %	0.0	0.0	0.0	0.0	33.3	66.7		0.0	0.0	0.0	0.0	56.0	44.0		0.0	0.0	0.0	0.0	54.4	45.6		0.0	0.0	0.0	0.0	44.2	55.8						
Total %	0.0	0.0	0.0	0.0	0.4	0.8	1.2	0.0	0.0	0.0	0.0	21.8	17.1	38.9		0.0	0.0	0.0	0.0	14.4	12.1	26.5		0.0	0.0	0.0	0.0	14.8	18.7	33.5			
Exiting Leg Total	3							100							68							86							257				

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue								Ellington Road								Highland Avenue								Cutter Avenue								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	10	6	16		0	0	0	0	2	6	8		0	0	0	0	2	9	11		35	
5:15 PM	0	0	0	0	0	1	1	0	0	0	0	8	12	20		0	0	0	0	5	5	10		0	0	0	0	8	8	16		47	
5:30 PM	0	0	0	0	1	0	1	0	0	0	0	8	10	18		0	0	0	0	4	4	8		0	0	0	0	11	10	21		48	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	21	8	29		0	0	0	0	13	9	22		0	0	0	0	5	9	14		65	
Total Volume	0	0	0	0	1	1	2	0	0	0	0	47	36	83		0	0	0	0	24	24	48		0	0	0	0	26	36	62		195	
% Approach Total	0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	56.6	43.4		0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	41.9	58.1						
PHF	0.000	0.000	0.000	0.000	0.250	0.250	0.500	0.000	0.000	0.000	0.000	0.560	0.750	0.716		0.000	0.000	0.000	0.000	0.462	0.667	0.545		0.000	0.000	0.000	0.000	0.591	0.900	0.738		0.750	
Entering Leg	0	0	0	0	1	1	2	0	0	0	0	47	36	83		0	0	0	0	24	24	48		0	0	0	0	26	36	62		195	
Exiting Leg	2							83							48							62							195				
Total	4							166							96							124							390				

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	1	0	0	0	1	1	122	0	0	123	50	0	79	0	129	253
11:15 AM	0	0	0	0	0	1	0	0	0	1	0	123	0	0	123	51	0	113	0	164	288
11:30 AM	0	0	0	0	0	1	0	0	0	1	0	111	0	0	111	44	0	110	0	154	266
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	121	0	0	121	60	0	97	0	157	278
Total	0	0	0	0	0	3	0	0	0	3	1	477	0	0	478	205	0	399	0	604	1085
12:00 PM	0	0	0	0	0	1	0	0	0	1	0	132	0	0	132	65	0	108	0	173	306
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	101	0	0	102	63	0	99	0	162	264
12:30 PM	0	0	0	0	0	1	0	0	0	1	1	111	0	0	112	79	0	103	0	182	295
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	118	0	0	119	62	0	114	0	176	295
Total	0	0	0	0	0	2	0	0	0	2	3	462	0	0	465	269	0	424	0	693	1160
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	103	0	0	103	69	0	99	0	168	271
1:15 PM	0	0	0	0	0	1	0	0	0	1	1	128	0	0	129	73	0	102	0	175	305
1:30 PM	0	0	0	0	0	0	0	0	0	0	1	89	0	0	90	52	0	96	0	148	238
1:45 PM	0	0	0	0	0	1	0	0	0	1	0	98	0	0	98	54	0	107	0	161	260
Total	0	0	0	0	0	2	0	0	0	2	2	418	0	0	420	248	0	404	0	652	1074
Grand Total	0	0	0	0	0	7	0	0	0	7	6	1357	0	0	1363	722	0	1227	0	1949	3319
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.4	99.6	0.0	0.0		37.0	0.0	63.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	40.9	0.0	0.0	41.1	21.8	0.0	37.0	0.0	58.7	
Exiting Leg Total	2591					6					722					0					3319
Cars	0	0	0	0	0	5	0	0	0	5	4	1332	0	0	1336	704	0	1198	0	1902	3243
% Cars	0.0	0.0	0.0	0.0	0.0	71.4	0.0	0.0	0.0	71.4	66.7	98.2	0.0	0.0	98.0	97.5	0.0	97.6	0.0	97.6	97.7
Exiting Leg Total	2535					4					704					0					3243
Heavy Vehicles	0	0	0	0	0	2	0	0	0	2	2	25	0	0	27	18	0	29	0	47	76
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	28.6	33.3	1.8	0.0	0.0	2.0	2.5	0.0	2.4	0.0	2.4	2.3
Exiting Leg Total	56					2					18					0					76

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	0	0	0	0	1	0	0	0	1	1	111	0	0	112	79	0	103	0	182	295
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	118	0	0	119	62	0	114	0	176	295
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	103	0	0	103	69	0	99	0	168	271
1:15 PM	0	0	0	0	0	1	0	0	0	1	1	128	0	0	129	73	0	102	0	175	305
Total Volume	0	0	0	0	0	2	0	0	0	2	3	460	0	0	463	283	0	418	0	701	1166
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.6	99.4	0.0	0.0		40.4	0.0	59.6	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.750	0.898	0.000	0.000	0.897	0.896	0.000	0.917	0.000	0.963	0.956
Cars	0	0	0	0	0	1	0	0	0	1	2	451	0	0	453	276	0	407	0	683	1137
Cars %	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	66.7	98.0	0.0	0.0	97.8	97.5	0.0	97.4	0.0	97.4	97.5
Heavy Vehicles	0	0	0	0	0	1	0	0	0	1	1	9	0	0	10	7	0	11	0	18	29
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	33.3	2.0	0.0	0.0	2.2	2.5	0.0	2.6	0.0	2.6	2.5
Cars Enter Leg	0	0	0	0	0	1	0	0	0	1	2	451	0	0	453	276	0	407	0	683	1137
Heavy Enter Leg	0	0	0	0	0	1	0	0	0	1	1	9	0	0	10	7	0	11	0	18	29
Total Entering Leg	0	0	0	0	0	2	0	0	0	2	3	460	0	0	463	283	0	418	0	701	1166
Cars Exiting Leg	859					2					276					0					1137
Heavy Exiting Leg	21					1					7					0					29
Total Exiting Leg	880					3					283					0					1166

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	1	0	0	0	1	1	121	0	0	122	49	0	75	0	124	247
11:15 AM	0	0	0	0	0	1	0	0	0	1	0	121	0	0	121	46	0	110	0	156	278
11:30 AM	0	0	0	0	0	1	0	0	0	1	0	107	0	0	107	44	0	109	0	153	261
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	118	0	0	118	60	0	96	0	156	274
Total	0	0	0	0	0	3	0	0	0	3	1	467	0	0	468	199	0	390	0	589	1060
12:00 PM	0	0	0	0	0	1	0	0	0	1	0	130	0	0	130	61	0	104	0	165	296
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	101	0	0	102	62	0	97	0	159	261
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	109	0	0	109	79	0	102	0	181	290
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	116	0	0	117	62	0	111	0	173	290
Total	0	0	0	0	0	1	0	0	0	1	2	456	0	0	458	264	0	414	0	678	1137
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	101	0	0	101	67	0	96	0	163	264
1:15 PM	0	0	0	0	0	1	0	0	0	1	1	125	0	0	126	68	0	98	0	166	293
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	89	0	0	89	52	0	96	0	148	237
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	94	0	0	94	54	0	104	0	158	252
Total	0	0	0	0	0	1	0	0	0	1	1	409	0	0	410	241	0	394	0	635	1046
Grand Total	0	0	0	0	0	5	0	0	0	5	4	1332	0	0	1336	704	0	1198	0	1902	3243
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.3	99.7	0.0	0.0		37.0	0.0	63.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.1	41.1	0.0	0.0	41.2	21.7	0.0	36.9	0.0	58.6	
Exiting Leg Total	2535					4					704					0					3243

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:00 PM	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:00 PM	0	0	0	0	0	1	0	0	0	1	0	130	0	0	130	61	0	104	0	165	296
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	101	0	0	102	62	0	97	0	159	261
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	109	0	0	109	79	0	102	0	181	290
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	116	0	0	117	62	0	111	0	173	290
Total Volume	0	0	0	0	0	1	0	0	0	1	2	456	0	0	458	264	0	414	0	678	1137
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.4	99.6	0.0	0.0		38.9	0.0	61.1	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.500	0.877	0.000	0.000	0.881	0.835	0.000	0.932	0.000	0.936	0.960
Entering Leg	0	0	0	0	0	1	0	0	0	1	2	456	0	0	458	264	0	414	0	678	1137
Exiting Leg	871					2					264					0					1137
Total	871					3					722					678					2274

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	4	0	5	6
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	5	0	3	0	8	10
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	5
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	4
Total	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	6	0	9	0	15	25
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4	0	4	0	8	10
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3	3
12:30 PM	0	0	0	0	0	1	0	0	0	1	1	2	0	0	3	0	0	1	0	1	5
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	3	0	3	5
Total	0	0	0	0	0	1	0	0	0	1	1	6	0	0	7	5	0	10	0	15	23
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	3	0	5	7
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	5	0	4	0	9	12
1:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	1	0	0	0	1	0	4	0	0	4	0	0	3	0	3	8
Total	0	0	0	0	0	1	0	0	0	1	1	9	0	0	10	7	0	10	0	17	28
Grand Total	0	0	0	0	0	2	0	0	0	2	2	25	0	0	27	18	0	29	0	47	76
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		7.4	92.6	0.0	0.0		38.3	0.0	61.7	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	2.6	2.6	32.9	0.0	0.0	35.5	23.7	0.0	38.2	0.0	61.8	
Exiting Leg Total	56					2					18					0					76
Large Trucks	0	0	0	0	0	2	0	0	0	2	2	13	0	0	15	6	0	16	0	22	39
% Large Trucks	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	100.0	52.0	0.0	0.0	55.6	33.3	0.0	55.2	0.0	46.8	51.3
Exiting Leg Total	31					2					6					0					39
Buses	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	12	0	13	0	25	37
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0	0.0	0.0	44.4	66.7	0.0	44.8	0.0	53.2	48.7
Exiting Leg Total	25					0					12					0					37

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	5	0	3	0	8	10
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	5
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	4
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4	0	4	0	8	10
Total Volume	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	9	0	9	0	18	29
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		50.0	0.0	50.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.688	0.000	0.000	0.688	0.450	0.000	0.563	0.000	0.563	0.725
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	4	0	4	0	8	14
Large Trucks %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	0.0	0.0	54.5	44.4	0.0	44.4	0.0	44.4	48.3
Buses	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5	0	5	0	10	15
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5	0.0	0.0	45.5	55.6	0.0	55.6	0.0	55.6	51.7
Trucks Enter Leg	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	4	0	4	0	8	14
Bus Enter Leg	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5	0	5	0	10	15
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	9	0	9	0	18	29
Trucks Exiting Leg	10					0					4					0					14
Buses Exiting Leg	10					0					5					0					15
Total Exiting Leg	20					0					9					0					29

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	1	0	4	5
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	3	0	4	0	7	12
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	3	0	4	5
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
12:30 PM	0	0	0	0	0	1	0	0	0	1	1	2	0	0	3	0	0	1	0	1	5
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	3
Total	0	0	0	0	0	1	0	0	0	1	1	4	0	0	5	1	0	7	0	8	14
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	2	0	4	6
1:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	0	0	1	0	1	4
Total	0	0	0	0	0	1	0	0	0	1	1	4	0	0	5	2	0	5	0	7	13
Grand Total	0	0	0	0	0	2	0	0	0	2	2	13	0	0	15	6	0	16	0	22	39
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		13.3	86.7	0.0	0.0		27.3	0.0	72.7	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	5.1	5.1	33.3	0.0	0.0	38.5	15.4	0.0	41.0	0.0	56.4	
Exiting Leg Total	31					2					6					0					39

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:30 PM	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	0	0	0	0	1	0	0	0	1	1	2	0	0	3	0	0	1	0	1	5
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	3
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	2	0	4	6
Total Volume	0	0	0	0	0	1	0	0	0	1	1	5	0	0	6	2	0	7	0	9	16
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		16.7	83.3	0.0	0.0		22.2	0.0	77.8	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.250	0.625	0.000	0.000	0.500	0.250	0.000	0.875	0.000	0.563	0.667
Entering Leg	0	0	0	0	0	1	0	0	0	1	1	5	0	0	6	2	0	7	0	9	16
Exiting Leg	13					1					2					0					16
Total	13					2					8					9					32

PDI File #: **175971 I**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Ellington Road W: Cutter Avenue**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	2	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	2	0	4	5
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
Total	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	3	0	5	0	8	13
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	1	0	4	5
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	2
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
Total	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4	0	3	0	7	9
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	1	0	3	5
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	2	0	5	6
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	2	0	2	4
Total	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5	0	5	0	10	15
Grand Total	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12	12	0	13	0	25	37
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		48.0	0.0	52.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	0.0	0.0	32.4	32.4	0.0	35.1	0.0	67.6	
Exiting Leg Total	25					0					12					0					37

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Highland Avenue					Ellington Road					Highland Avenue					Cutter Avenue					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	2	0	4	5
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	0	1	0	4	5
Total Volume	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5	0	5	0	10	15
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		50.0	0.0	50.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.625	0.417	0.000	0.625	0.000	0.625	0.750
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5	0	5	0	10	15
Exiting Leg	10					0					5					0					15
Total	10					0					10					10					30

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Highland Avenue							Ellington Road							Highland Avenue							Cutter Avenue							Total	
	from North							from East							from South							from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	1	4	4	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	5	
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	3	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	3	4		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	12	0	0	1	15	16		
12:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	2	0	0	0	3	9		
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	0	4	0	0	0	0	0	0	4	0	0	1	0	0	1	7	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	4	0	0	0	4	5	
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	0	3	0	0	0	0	0	3	1	0	6	0	0	0	7	12	
Total	0	1	0	0	0	0	1	0	0	0	0	2	2	4	0	13	0	0	0	0	13	2	0	13	0	0	0	15	33	
1:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	3	0	0	1	5	7	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4	0	0	9	0	0	0	9	13	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	1	2	0	0	1	4	6	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	1	0	3	0	0	0	4	7	
Total	0	1	0	0	0	0	1	0	0	0	0	0	0	0	10	0	0	0	0	0	10	2	1	17	0	0	2	22	33	
Grand Total	0	2	0	0	0	0	2	0	0	0	0	2	2	4	0	23	0	0	1	0	24	6	1	42	0	0	3	52	82	
Approach %	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	50.0	50.0		0.0	95.8	0.0	0.0	4.2	0.0		11.5	1.9	80.8	0.0	0.0	5.8			
Total %	0.0	2.4	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	2.4	2.4	4.9	0.0	28.0	0.0	0.0	1.2	0.0	29.3	7.3	1.2	51.2	0.0	0.0	3.7	63.4		
Exiting Leg Total	65							5							9							3							82	

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue							Ellington Road							Highland Avenue							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	3	0	0	0	0	3	1	0	6	0	0	0	7	12
1:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	3	0	0	1	5	7
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4	0	0	9	0	0	0	9	13
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	1	2	0	0	1	4	6
Total Volume	0	1	0	0	0	0	1	0	0	0	0	1	1	2	0	10	0	0	0	0	10	2	1	20	0	0	2	25	38
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	50.0	50.0		0.0	100.0	0.0	0.0	0.0	0.0		8.0	4.0	80.0	0.0	0.0	8.0		
PHF	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.000	0.625	0.000	0.000	0.000	0.000	0.625	0.500	0.250	0.556	0.000	0.000	0.500	0.694	0.731
Entering Leg	0	1	0	0	0	0	1	0	0	0	0	1	1	2	0	10	0	0	0	0	10	2	1	20	0	0	2	25	38
Exiting Leg	30							3							3							2							38
Total	31							5							13							27							76

PDI File #: 175971 I
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Ellington Road W: Cutter Avenue
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Highland Avenue							Ellington Road							Highland Avenue							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	1	0	1	0	0	0	0	11	11	22	0	0	0	0	5	0	5	0	0	0	0	8	7	15	43
11:15 AM	0	0	0	0	3	0	3	0	0	0	0	11	9	20	0	0	0	0	6	2	8	0	0	0	0	14	11	25	56
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	6	14	20	0	0	0	0	8	1	9	0	0	0	0	16	10	26	55
11:45 AM	0	0	0	0	1	2	3	0	0	0	0	13	16	29	0	0	0	0	8	7	15	0	0	0	0	15	22	37	84
Total	0	0	0	0	5	2	7	0	0	0	0	41	50	91	0	0	0	0	27	10	37	0	0	0	0	53	50	103	238
12:00 PM	0	0	0	0	0	1	1	0	0	0	0	7	8	15	0	0	0	0	8	3	11	0	0	0	0	14	15	29	56
12:15 PM	0	0	0	0	1	0	1	0	0	0	0	17	9	26	0	0	0	0	16	8	24	0	0	0	0	11	9	20	71
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	9	15	24	0	0	0	0	7	11	18	0	0	0	0	10	11	21	63
12:45 PM	0	0	0	0	1	2	3	0	0	0	0	14	10	24	0	0	0	0	12	8	20	0	0	0	0	12	19	31	78
Total	0	0	0	0	2	3	5	0	0	0	0	47	42	89	0	0	0	0	43	30	73	0	0	0	0	47	54	101	268
1:00 PM	0	0	0	0	1	0	1	0	0	0	0	10	17	27	0	0	0	0	4	4	8	0	0	0	0	5	18	23	59
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	8	8	16	0	0	0	0	10	6	16	0	0	0	0	10	25	35	67
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	9	18	27	0	0	0	0	6	13	19	0	0	0	0	21	13	34	80
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	21	11	32	0	0	0	0	3	3	6	0	0	0	0	23	18	41	79
Total	0	0	0	0	1	0	1	0	0	0	0	48	54	102	0	0	0	0	23	26	49	0	0	0	0	59	74	133	285
Grand Total	0	0	0	0	8	5	13	0	0	0	0	136	146	282	0	0	0	0	93	66	159	0	0	0	0	159	178	337	791
Approach %	0.0	0.0	0.0	0.0	61.5	38.5		0.0	0.0	0.0	0.0	48.2	51.8		0.0	0.0	0.0	0.0	58.5	41.5		0.0	0.0	0.0	0.0	47.2	52.8		
Total %	0.0	0.0	0.0	0.0	1.0	0.6	1.6	0.0	0.0	0.0	0.0	17.2	18.5	35.7	0.0	0.0	0.0	0.0	11.8	8.3	20.1	0.0	0.0	0.0	0.0	20.1	22.5	42.6	
Exiting Leg Total	13							282							159							337							791

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue							Ellington Road							Highland Avenue							Cutter Avenue							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
1:00 PM	0	0	0	0	1	0	1	0	0	0	0	10	17	27	0	0	0	0	4	4	8	0	0	0	0	5	18	23	59
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	8	8	16	0	0	0	0	10	6	16	0	0	0	0	10	25	35	67
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	9	18	27	0	0	0	0	6	13	19	0	0	0	0	21	13	34	80
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	21	11	32	0	0	0	0	3	3	6	0	0	0	0	23	18	41	79
Total Volume	0	0	0	0	1	0	1	0	0	0	0	48	54	102	0	0	0	0	23	26	49	0	0	0	0	59	74	133	285
% Approach Total	0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	47.1	52.9		0.0	0.0	0.0	0.0	46.9	53.1		0.0	0.0	0.0	0.0	44.4	55.6		
PHF	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.571	0.750	0.797	0.000	0.000	0.000	0.000	0.575	0.500	0.645	0.000	0.000	0.000	0.000	0.641	0.740	0.811	0.891
Entering Leg	0	0	0	0	1	0	1	0	0	0	0	48	54	102	0	0	0	0	23	26	49	0	0	0	0	59	74	133	285
Exiting Leg	1							102							49							133							285
Total	2							204							98							266							570

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	5	142	12	0	159	0	0	8	0	8	167
7:15 AM	0	0	0	0	0	0	0	0	0	0	6	179	22	0	207	0	0	10	0	10	217
7:30 AM	0	0	0	0	0	0	0	0	0	0	8	194	18	0	220	0	1	14	0	15	235
7:45 AM	0	0	0	0	0	2	0	0	0	2	11	202	31	0	244	0	2	17	0	19	265
Total	0	0	0	0	0	2	0	0	0	2	30	717	83	0	830	0	3	49	0	52	884
8:00 AM	0	0	0	0	0	0	0	0	0	0	6	209	45	0	260	0	3	15	0	18	278
8:15 AM	0	0	0	0	0	0	0	0	0	0	9	202	34	0	245	0	4	27	0	31	276
8:30 AM	0	0	0	0	0	1	0	0	0	1	8	160	31	0	199	0	0	20	0	20	220
8:45 AM	0	0	0	0	0	0	0	0	0	0	7	186	45	0	238	0	3	24	0	27	265
Total	0	0	0	0	0	1	0	0	0	1	30	757	155	0	942	0	10	86	0	96	1039
Grand Total	0	0	0	0	0	3	0	0	0	3	60	1474	238	0	1772	0	13	135	0	148	1923
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		3.4	83.2	13.4	0.0		0.0	8.8	91.2	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	3.1	76.7	12.4	0.0	92.1	0.0	0.7	7.0	0.0	7.7	
Exiting Leg Total	1612					73					0					238					1923
Cars	0	0	0	0	0	3	0	0	0	3	40	1433	233	0	1706	0	6	120	0	126	1835
% Cars	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	66.7	97.2	97.9	0.0	96.3	0.0	46.2	88.9	0.0	85.1	95.4
Exiting Leg Total	1556					46					0					233					1835
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	20	41	5	0	66	0	7	15	0	22	88
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	2.8	2.1	0.0	3.7	0.0	53.8	11.1	0.0	14.9	4.6
Exiting Leg Total	56					27					0					5					88

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:30 AM	0	0	0	0	0	0	0	0	0	0	8	194	18	0	220	0	1	14	0	15	235
7:45 AM	0	0	0	0	0	2	0	0	0	2	11	202	31	0	244	0	2	17	0	19	265
8:00 AM	0	0	0	0	0	0	0	0	0	0	6	209	45	0	260	0	3	15	0	18	278
8:15 AM	0	0	0	0	0	0	0	0	0	0	9	202	34	0	245	0	4	27	0	31	276
Total Volume	0	0	0	0	0	2	0	0	0	2	34	807	128	0	969	0	10	73	0	83	1054
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		3.5	83.3	13.2	0.0		0.0	12.0	88.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.773	0.965	0.711	0.000	0.932	0.000	0.625	0.676	0.000	0.669	0.948
Cars	0	0	0	0	0	2	0	0	0	2	26	782	125	0	933	0	5	63	0	68	1003
Cars %	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	76.5	96.9	97.7	0.0	96.3	0.0	50.0	86.3	0.0	81.9	95.2
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	8	25	3	0	36	0	5	10	0	15	51
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	3.1	2.3	0.0	3.7	0.0	50.0	13.7	0.0	18.1	4.8
Cars Enter Leg	0	0	0	0	0	2	0	0	0	2	26	782	125	0	933	0	5	63	0	68	1003
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	8	25	3	0	36	0	5	10	0	15	51
Total Entering Leg	0	0	0	0	0	2	0	0	0	2	34	807	128	0	969	0	10	73	0	83	1054
Cars Exiting Leg	847					31					0					125					1003
Heavy Exiting Leg	35					13					0					3					51
Total Exiting Leg	882					44					0					128					1054

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	2	139	12	0	153	0	0	8	0	8	161
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	173	22	0	196	0	0	9	0	9	205
7:30 AM	0	0	0	0	0	0	0	0	0	0	7	185	17	0	209	0	0	14	0	14	223
7:45 AM	0	0	0	0	0	2	0	0	0	2	6	197	30	0	233	0	1	14	0	15	250
Total	0	0	0	0	0	2	0	0	0	2	16	694	81	0	791	0	1	45	0	46	839
8:00 AM	0	0	0	0	0	0	0	0	0	0	6	202	44	0	252	0	3	13	0	16	268
8:15 AM	0	0	0	0	0	0	0	0	0	0	7	198	34	0	239	0	1	22	0	23	262
8:30 AM	0	0	0	0	0	1	0	0	0	1	6	155	30	0	191	0	0	18	0	18	210
8:45 AM	0	0	0	0	0	0	0	0	0	0	5	184	44	0	233	0	1	22	0	23	256
Total	0	0	0	0	0	1	0	0	0	1	24	739	152	0	915	0	5	75	0	80	996
Grand Total	0	0	0	0	0	3	0	0	0	3	40	1433	233	0	1706	0	6	120	0	126	1835
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		2.3	84.0	13.7	0.0		0.0	4.8	95.2	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	2.2	78.1	12.7	0.0	93.0	0.0	0.3	6.5	0.0	6.9	
Exiting Leg Total	1556					46					0					233					1835

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:30 AM	0	0	0	0	0	0	0	0	0	0	7	185	17	0	209	0	0	14	0	14	223
7:45 AM	0	0	0	0	0	2	0	0	0	2	6	197	30	0	233	0	1	14	0	15	250
8:00 AM	0	0	0	0	0	0	0	0	0	0	6	202	44	0	252	0	3	13	0	16	268
8:15 AM	0	0	0	0	0	0	0	0	0	0	7	198	34	0	239	0	1	22	0	23	262
Total Volume	0	0	0	0	0	2	0	0	0	2	26	782	125	0	933	0	5	63	0	68	1003
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		2.8	83.8	13.4	0.0		0.0	7.4	92.6	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.929	0.968	0.710	0.000	0.926	0.000	0.417	0.716	0.000	0.739	0.936
Entering Leg	0	0	0	0	0	2	0	0	0	2	26	782	125	0	933	0	5	63	0	68	1003
Exiting Leg	847					31					0					125					1003
Total	847					33					933					193					2006

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	3	3	0	0	6	0	0	0	0	0	6
7:15 AM	0	0	0	0	0	0	0	0	0	0	5	6	0	0	11	0	0	1	0	1	12
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	9	1	0	11	0	1	0	0	1	12
7:45 AM	0	0	0	0	0	0	0	0	0	0	5	5	1	0	11	0	1	3	0	4	15
Total	0	0	0	0	0	0	0	0	0	0	14	23	2	0	39	0	2	4	0	6	45
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	0	2	0	2	10
8:15 AM	0	0	0	0	0	0	0	0	0	0	2	4	0	0	6	0	3	5	0	8	14
8:30 AM	0	0	0	0	0	0	0	0	0	0	2	5	1	0	8	0	0	2	0	2	10
8:45 AM	0	0	0	0	0	0	0	0	0	0	2	2	1	0	5	0	2	2	0	4	9
Total	0	0	0	0	0	0	0	0	0	0	6	18	3	0	27	0	5	11	0	16	43
Grand Total	0	0	0	0	0	0	0	0	0	0	20	41	5	0	66	0	7	15	0	22	88
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		30.3	62.1	7.6	0.0		0.0	31.8	68.2	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	46.6	5.7	0.0	75.0	0.0	8.0	17.0	0.0	25.0	
Exiting Leg Total	56					27					0					5					88
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	34	5	0	39	0	0	12	0	12	51
% Large Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.9	100.0	0.0	59.1	0.0	0.0	80.0	0.0	54.5	58.0
Exiting Leg Total	46					0					0					5					51
Buses	0	0	0	0	0	0	0	0	0	0	20	7	0	0	27	0	7	3	0	10	37
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	17.1	0.0	0.0	40.9	0.0	100.0	20.0	0.0	45.5	42.0
Exiting Leg Total	10					27					0					0					37

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	9	1	0	11	0	1	0	0	1	12
7:45 AM	0	0	0	0	0	0	0	0	0	0	5	5	1	0	11	0	1	3	0	4	15
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	0	2	0	2	10
8:15 AM	0	0	0	0	0	0	0	0	0	0	2	4	0	0	6	0	3	5	0	8	14
Total Volume	0	0	0	0	0	0	0	0	0	0	8	25	3	0	36	0	5	10	0	15	51
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		22.2	69.4	8.3	0.0		0.0	33.3	66.7	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.694	0.750	0.000	0.818	0.000	0.417	0.500	0.000	0.469	0.850
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	22	3	0	25	0	0	7	0	7	32
Large Trucks %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.0	100.0	0.0	69.4	0.0	0.0	70.0	0.0	46.7	62.7
Buses	0	0	0	0	0	0	0	0	0	0	8	3	0	0	11	0	5	3	0	8	19
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	12.0	0.0	0.0	30.6	0.0	100.0	30.0	0.0	53.3	37.3
Trucks Enter Leg	0	0	0	0	0	0	0	0	0	0	0	22	3	0	25	0	0	7	0	7	32
Bus Enter Leg	0	0	0	0	0	0	0	0	0	0	8	3	0	0	11	0	5	3	0	8	19
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	8	25	3	0	36	0	5	10	0	15	51
Trucks Exiting Leg	29					0					0					3					32
Buses Exiting Leg	6					13					0					0					19
Total Exiting Leg	35					13					0					3					51

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	1	0	1	0	0	0	0	0	7
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	0	0	0	0	0	0	0	0	0	8
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	0	2	0	2	0	0	0	0	0	7
Total	0	0	0	0	0	0	0	0	0	0	0	18	2	0	20	0	0	3	0	3	0	0	0	0	0	23
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	0	1	0	1	0	0	0	0	0	9
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	4	0	4	0	0	0	0	0	8
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	0	2	0	2	0	0	0	0	0	7
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	2	0	2	0	0	0	0	0	4
Total	0	0	0	0	0	0	0	0	0	0	0	16	3	0	19	0	0	9	0	9	0	0	0	0	0	28
Grand Total	0	0	0	0	0	0	0	0	0	0	0	34	5	0	39	0	0	12	0	12	0	0	0	0	0	51
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.2	12.8	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	9.8	0.0	76.5	0.0	0.0	23.5	0.0	23.5	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total						46					0					0					5	51				

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	0	0	0	0	0	0	0	0	0	8
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	0	2	0	2	0	0	0	0	0	7
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	0	1	0	1	0	0	0	0	0	9
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	4	0	4	0	0	0	0	0	8
Total Volume	0	0	0	0	0	0	0	0	0	0	0	22	3	0	25	0	0	7	0	7	0	0	0	0	0	32
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.0	12.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.786	0.750	0.000	0.781	0.000	0.000	0.438	0.000	0.438	0.000	0.000	0.000	0.000	0.000	0.889
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	22	3	0	25	0	0	7	0	7	0	0	0	0	0	32
Exiting Leg						29					0					0					3	32				
Total						29					0					25					10	64				

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	0	0	0	0	0	5
7:15 AM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	5
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	1	0	0	1	4
7:45 AM	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	0	1	1	0	2	8
Total	0	0	0	0	0	0	0	0	0	0	14	5	0	0	19	0	2	1	0	3	22
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	3	1	0	4	6
8:30 AM	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	0	0	0	0	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	2	0	0	2	5
Total	0	0	0	0	0	0	0	0	0	0	6	2	0	0	8	0	5	2	0	7	15
Grand Total	0	0	0	0	0	0	0	0	0	0	20	7	0	0	27	0	7	3	0	10	37
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.1	25.9	0.0	0.0		0.0	70.0	30.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.1	18.9	0.0	0.0	73.0	0.0	18.9	8.1	0.0	27.0	
Exiting Leg Total	10					27					0					0					37

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	0	0	0	0	0	5
7:15 AM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	5
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	1	0	0	1	4
7:45 AM	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	0	1	1	0	2	8
Total Volume	0	0	0	0	0	0	0	0	0	0	14	5	0	0	19	0	2	1	0	3	22
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.7	26.3	0.0	0.0		0.0	66.7	33.3	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.700	0.625	0.000	0.000	0.792	0.000	0.500	0.250	0.000	0.375	0.688
Entering Leg	0	0	0	0	0	0	0	0	0	0	14	5	0	0	19	0	2	1	0	3	22
Exiting Leg	6					16					0					0					22
Total	6					16					19					3					44

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Highland Avenue								Grove Street								Highland Avenue								Grove Street								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	0	0	3	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	3	0	0	0	0	0	0	0	3	
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	3	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3	0	0	0	0	9	0	0	0	0	0	0	0	9	
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	11	5	0	0	0	0	17	0	0	0	0	0	0	0	18		
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	6		
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	8	0	0	0	0	0	0	0	8		
8:30 AM	0	0	0	0	0	0	0	0	2	0	0	0	1	3	0	1	1	0	0	0	0	2	0	0	1	0	0	0	1	6			
8:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	3	1	0	0	0	0	4	0	1	1	0	0	0	2	7			
Total	0	0	0	0	0	0	0	0	3	0	0	0	2	5	0	16	3	0	0	0	0	19	0	1	2	0	0	0	3	27			
Grand Total	0	0	0	0	0	0	0	0	4	0	0	0	2	6	1	27	8	0	0	0	0	36	0	1	2	0	0	0	3	45			
Approach %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	66.7	0.0	0.0	0.0	33.3		2.8	75.0	22.2	0.0	0.0	0.0		0.0	33.3	66.7	0.0	0.0	0.0						
Total %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	8.9	0.0	0.0	0.0	4.4	13.3	2.2	60.0	17.8	0.0	0.0	0.0	80.0	0.0	2.2	4.4	0.0	0.0	0.0	6.7					
Exiting Leg Total	29								4								0								12								45

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue								Grove Street								Highland Avenue								Grove Street								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3	0	0	0	0	9	0	0	0	0	0	0	0	9			
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	6			
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	8	0	0	0	0	0	0	0	8			
8:30 AM	0	0	0	0	0	0	0	0	2	0	0	0	1	3	0	1	1	0	0	0	0	2	0	0	1	0	0	0	1	6			
Total Volume	0	0	0	0	0	0	0	0	2	0	0	0	2	4	0	19	5	0	0	0	0	24	0	0	1	0	0	0	1	29			
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	50.0	0.0	0.0	0.0	50.0		0.0	79.2	20.8	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0						
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.333	0.000	0.679	0.417	0.000	0.000	0.000	0.667	0.000	0.000	0.250	0.000	0.000	0.250	0.806					
Entering Leg	0	0	0	0	0	0	0	0	2	0	0	0	2	4	0	19	5	0	0	0	24	0	0	1	0	0	0	1	29				
Exiting Leg	20								2								0								7								29
Total	20								6								24								8								58

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Highland Avenue							Grove Street							Highland Avenue							Grove Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	7	4	11	0	0	0	0	2	8	10	0	0	0	0	0	1	1	0	0	0	0	2	3	5	27
7:15 AM	0	0	0	0	9	3	12	0	0	0	0	3	5	8	0	0	0	0	0	0	0	0	0	0	7	2	9	29	
7:30 AM	0	0	0	0	6	8	14	0	0	0	0	2	14	16	0	0	0	0	0	0	0	0	0	5	0	5	35		
7:45 AM	0	0	0	0	9	10	19	0	0	0	0	1	8	9	0	0	0	0	3	0	3	0	0	0	8	0	8	39	
Total	0	0	0	0	31	25	56	0	0	0	0	8	35	43	0	0	0	0	3	1	4	0	0	0	0	22	5	27	130
8:00 AM	0	0	0	0	15	9	24	0	0	0	0	3	7	10	0	0	0	0	1	1	2	0	0	0	0	14	6	20	56
8:15 AM	0	0	0	0	12	13	25	0	0	0	0	2	10	12	0	0	0	0	0	0	0	0	0	0	10	4	14	51	
8:30 AM	0	0	0	0	10	14	24	0	0	0	0	2	16	18	0	0	0	0	2	0	2	0	0	0	9	4	13	57	
8:45 AM	0	0	0	0	8	15	23	0	0	0	0	8	14	22	0	0	0	0	0	0	0	0	0	0	2	1	3	48	
Total	0	0	0	0	45	51	96	0	0	0	0	15	47	62	0	0	0	0	3	1	4	0	0	0	0	35	15	50	212
Grand Total	0	0	0	0	76	76	152	0	0	0	0	23	82	105	0	0	0	0	6	2	8	0	0	0	0	57	20	77	342
Approach %	0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	21.9	78.1		0.0	0.0	0.0	0.0	75.0	25.0		0.0	0.0	0.0	0.0	74.0	26.0		
Total %	0.0	0.0	0.0	0.0	22.2	22.2	44.4	0.0	0.0	0.0	0.0	6.7	24.0	30.7	0.0	0.0	0.0	0.0	1.8	0.6	2.3	0.0	0.0	0.0	0.0	16.7	5.8	22.5	
Exiting Leg Total	152							105							8							77							342

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Highland Avenue							Grove Street							Highland Avenue							Grove Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	0	0	0	15	9	24	0	0	0	0	3	7	10	0	0	0	0	1	1	2	0	0	0	0	14	6	20	56
8:15 AM	0	0	0	0	12	13	25	0	0	0	0	2	10	12	0	0	0	0	0	0	0	0	0	0	10	4	14	51	
8:30 AM	0	0	0	0	10	14	24	0	0	0	0	2	16	18	0	0	0	0	2	0	2	0	0	0	9	4	13	57	
8:45 AM	0	0	0	0	8	15	23	0	0	0	0	8	14	22	0	0	0	0	0	0	0	0	0	0	2	1	3	48	
Total Volume	0	0	0	0	45	51	96	0	0	0	0	15	47	62	0	0	0	0	3	1	4	0	0	0	0	35	15	50	212
% Approach Total	0.0	0.0	0.0	0.0	46.9	53.1		0.0	0.0	0.0	0.0	24.2	75.8		0.0	0.0	0.0	0.0	75.0	25.0		0.0	0.0	0.0	0.0	70.0	30.0		
PHF	0.000	0.000	0.000	0.000	0.750	0.850	0.960	0.000	0.000	0.000	0.000	0.469	0.734	0.705	0.000	0.000	0.000	0.000	0.375	0.250	0.500	0.000	0.000	0.000	0.000	0.625	0.625	0.625	0.930
Entering Leg	0	0	0	0	45	51	96	0	0	0	0	15	47	62	0	0	0	0	3	1	4	0	0	0	0	35	15	50	212
Exiting Leg	96							62							4							50							212
Total	192							124							8							100							424

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	6	216	19	0	241	0	1	44	0	45	286
4:15 PM	0	0	0	0	0	1	0	0	0	1	9	202	15	0	226	0	3	30	0	33	260
4:30 PM	0	0	0	0	0	0	0	0	0	0	5	217	19	0	241	0	3	47	0	50	291
4:45 PM	0	0	0	0	0	2	0	0	0	2	14	194	18	0	226	0	5	37	0	42	270
Total	0	0	0	0	0	3	0	0	0	3	34	829	71	0	934	0	12	158	0	170	1107
5:00 PM	0	0	0	0	0	1	0	0	0	1	14	205	18	0	237	0	0	41	0	41	279
5:15 PM	0	0	0	0	0	1	0	0	0	1	19	230	18	0	267	0	1	44	0	45	313
5:30 PM	0	0	0	0	0	1	0	0	0	1	8	215	16	0	239	0	2	48	0	50	290
5:45 PM	0	0	0	0	0	1	0	0	0	1	16	216	31	0	263	0	7	29	0	36	300
Total	0	0	0	0	0	4	0	0	0	4	57	866	83	0	1006	0	10	162	0	172	1182
Grand Total	0	0	0	0	0	7	0	0	0	7	91	1695	154	0	1940	0	22	320	0	342	2289
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		4.7	87.4	7.9	0.0		0.0	6.4	93.6	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	4.0	74.0	6.7	0.0	84.8	0.0	1.0	14.0	0.0	14.9	
Exiting Leg Total	2022					113					0					154					2289
Cars	0	0	0	0	0	7	0	0	0	7	66	1675	152	0	1893	0	18	315	0	333	2233
% Cars	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	72.5	98.8	98.7	0.0	97.6	0.0	81.8	98.4	0.0	97.4	97.6
Exiting Leg Total	1997					84					0					152					2233
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	25	20	2	0	47	0	4	5	0	9	56
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	1.2	1.3	0.0	2.4	0.0	18.2	1.6	0.0	2.6	2.4
Exiting Leg Total	25					29					0					2					56

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	0	0	0	0	1	0	0	0	1	14	205	18	0	237	0	0	41	0	41	279
5:15 PM	0	0	0	0	0	1	0	0	0	1	19	230	18	0	267	0	1	44	0	45	313
5:30 PM	0	0	0	0	0	1	0	0	0	1	8	215	16	0	239	0	2	48	0	50	290
5:45 PM	0	0	0	0	0	1	0	0	0	1	16	216	31	0	263	0	7	29	0	36	300
Total Volume	0	0	0	0	0	4	0	0	0	4	57	866	83	0	1006	0	10	162	0	172	1182
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		5.7	86.1	8.3	0.0		0.0	5.8	94.2	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	1.000	0.750	0.941	0.669	0.000	0.942	0.000	0.357	0.844	0.000	0.860	0.944
Cars	0	0	0	0	0	4	0	0	0	4	44	853	82	0	979	0	9	160	0	169	1152
Cars %	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	77.2	98.5	98.8	0.0	97.3	0.0	90.0	98.8	0.0	98.3	97.5
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	13	13	1	0	27	0	1	2	0	3	30
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	1.5	1.2	0.0	2.7	0.0	10.0	1.2	0.0	1.7	2.5
Cars Enter Leg	0	0	0	0	0	4	0	0	0	4	44	853	82	0	979	0	9	160	0	169	1152
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	13	13	1	0	27	0	1	2	0	3	30
Total Entering Leg	0	0	0	0	0	4	0	0	0	4	57	866	83	0	1006	0	10	162	0	172	1182
Cars Exiting Leg	1017					53					0					82					1152
Heavy Exiting Leg	15					14					0					1					30
Total Exiting Leg	1032					67					0					83					1182

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	213	18	0	234	0	0	42	0	42	276
4:15 PM	0	0	0	0	0	1	0	0	0	1	5	201	15	0	221	0	2	30	0	32	254
4:30 PM	0	0	0	0	0	0	0	0	0	0	3	215	19	0	237	0	3	46	0	49	286
4:45 PM	0	0	0	0	0	2	0	0	0	2	11	193	18	0	222	0	4	37	0	41	265
Total	0	0	0	0	0	3	0	0	0	3	22	822	70	0	914	0	9	155	0	164	1081
5:00 PM	0	0	0	0	0	1	0	0	0	1	12	202	18	0	232	0	0	40	0	40	273
5:15 PM	0	0	0	0	0	1	0	0	0	1	12	227	18	0	257	0	1	44	0	45	303
5:30 PM	0	0	0	0	0	1	0	0	0	1	7	213	15	0	235	0	2	47	0	49	285
5:45 PM	0	0	0	0	0	1	0	0	0	1	13	211	31	0	255	0	6	29	0	35	291
Total	0	0	0	0	0	4	0	0	0	4	44	853	82	0	979	0	9	160	0	169	1152
Grand Total	0	0	0	0	0	7	0	0	0	7	66	1675	152	0	1893	0	18	315	0	333	2233
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		3.5	88.5	8.0	0.0		0.0	5.4	94.6	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	3.0	75.0	6.8	0.0	84.8	0.0	0.8	14.1	0.0	14.9	
Exiting Leg Total	1997					84					0					152					2233

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	0	0	0	0	1	0	0	0	1	12	202	18	0	232	0	0	40	0	40	273
5:15 PM	0	0	0	0	0	1	0	0	0	1	12	227	18	0	257	0	1	44	0	45	303
5:30 PM	0	0	0	0	0	1	0	0	0	1	7	213	15	0	235	0	2	47	0	49	285
5:45 PM	0	0	0	0	0	1	0	0	0	1	13	211	31	0	255	0	6	29	0	35	291
Total Volume	0	0	0	0	0	4	0	0	0	4	44	853	82	0	979	0	9	160	0	169	1152
% Approach Total	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		4.5	87.1	8.4	0.0		0.0	5.3	94.7	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	1.000	0.846	0.939	0.661	0.000	0.952	0.000	0.375	0.851	0.000	0.862	0.950
Entering Leg	0	0	0	0	0	4	0	0	0	4	44	853	82	0	979	0	9	160	0	169	1152
Exiting Leg	1017					53					0					82					1152
Total	1017					57					979					251					2304

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	3	1	0	7	0	1	2	0	3	10
4:15 PM	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	1	0	0	1	6
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	4	0	0	1	0	1	5
4:45 PM	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	1	0	0	1	5
Total	0	0	0	0	0	0	0	0	0	0	12	7	1	0	20	0	3	3	0	6	26
5:00 PM	0	0	0	0	0	0	0	0	0	0	2	3	0	0	5	0	0	1	0	1	6
5:15 PM	0	0	0	0	0	0	0	0	0	0	7	3	0	0	10	0	0	0	0	0	10
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	2	1	0	4	0	0	1	0	1	5
5:45 PM	0	0	0	0	0	0	0	0	0	0	3	5	0	0	8	0	1	0	0	1	9
Total	0	0	0	0	0	0	0	0	0	0	13	13	1	0	27	0	1	2	0	3	30
Grand Total	0	0	0	0	0	0	0	0	0	0	25	20	2	0	47	0	4	5	0	9	56
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		53.2	42.6	4.3	0.0		0.0	44.4	55.6	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6	35.7	3.6	0.0	83.9	0.0	7.1	8.9	0.0	16.1	
Exiting Leg Total	25					29					0					2					56
Large Trucks	0	0	0	0	0	0	0	0	0	0	2	12	2	0	16	0	0	4	0	4	20
% Large Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	60.0	100.0	0.0	34.0	0.0	0.0	80.0	0.0	44.4	35.7
Exiting Leg Total	16					2					0					2					20
Buses	0	0	0	0	0	0	0	0	0	0	23	8	0	0	31	0	4	1	0	5	36
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.0	40.0	0.0	0.0	66.0	0.0	100.0	20.0	0.0	55.6	64.3
Exiting Leg Total	9					27					0					0					36

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	3	1	0	7	0	1	2	0	3	10
4:15 PM	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	1	0	0	1	6
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	4	0	0	1	0	1	5
4:45 PM	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	1	0	0	1	5
Total Volume	0	0	0	0	0	0	0	0	0	0	12	7	1	0	20	0	3	3	0	6	26
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		60.0	35.0	5.0	0.0		0.0	50.0	50.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.583	0.250	0.000	0.714	0.000	0.750	0.375	0.000	0.500	0.650
Large Trucks	0	0	0	0	0	0	0	0	0	0	1	6	1	0	8	0	0	2	0	2	10
Large Trucks %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	85.7	100.0	0.0	40.0	0.0	0.0	66.7	0.0	33.3	38.5
Buses	0	0	0	0	0	0	0	0	0	0	11	1	0	0	12	0	3	1	0	4	16
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.7	14.3	0.0	0.0	60.0	0.0	100.0	33.3	0.0	66.7	61.5
Trucks Enter Leg	0	0	0	0	0	0	0	0	0	0	1	6	1	0	8	0	0	2	0	2	10
Bus Enter Leg	0	0	0	0	0	0	0	0	0	0	11	1	0	0	12	0	3	1	0	4	16
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	12	7	1	0	20	0	3	3	0	6	26
Trucks Exiting Leg	8					1					0					1					10
Buses Exiting Leg	2					14					0					0					16
Total Exiting Leg	10					15					0					1					26

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	1	0	1	5
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	1	6	1	0	8	0	0	2	0	2	10
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	1	0	1	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
Total	0	0	0	0	0	0	0	0	0	0	1	6	1	0	8	0	0	2	0	2	10
Grand Total	0	0	0	0	0	0	0	0	0	0	2	12	2	0	16	0	0	4	0	4	20
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		12.5	75.0	12.5	0.0		0.0	0.0	100.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	60.0	10.0	0.0	80.0	0.0	0.0	20.0	0.0	20.0	
Exiting Leg Total	16					2					0					2					20

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	1	0	1	5
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	1	6	1	0	8	0	0	2	0	2	10
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		12.5	75.0	12.5	0.0		0.0	0.0	100.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.500	0.250	0.000	0.500	0.000	0.000	0.500	0.000	0.500	0.500
Entering Leg	0	0	0	0	0	0	0	0	0	0	1	6	1	0	8	0	0	2	0	2	10
Exiting Leg	8					1					0					1					10
Total	8					1					8					3					20

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	1	0	2	5
4:15 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	4
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	0	0	0	0	3
4:45 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	4
Total	0	0	0	0	0	0	0	0	0	0	11	1	0	0	12	0	3	1	0	4	16
5:00 PM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	0	0	4
5:15 PM	0	0	0	0	0	0	0	0	0	0	6	1	0	0	7	0	0	0	0	0	7
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	3	3	0	0	6	0	1	0	0	1	7
Total	0	0	0	0	0	0	0	0	0	0	12	7	0	0	19	0	1	0	0	1	20
Grand Total	0	0	0	0	0	0	0	0	0	0	23	8	0	0	31	0	4	1	0	5	36
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		74.2	25.8	0.0	0.0		0.0	80.0	20.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.9	22.2	0.0	0.0	86.1	0.0	11.1	2.8	0.0	13.9	
Exiting Leg Total						9					27					0					36

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
5:00 PM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	0	0	4
5:15 PM	0	0	0	0	0	0	0	0	0	0	6	1	0	0	7	0	0	0	0	0	7
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	3	3	0	0	6	0	1	0	0	1	7
Total Volume	0	0	0	0	0	0	0	0	0	0	12	7	0	0	19	0	1	0	0	1	20
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		63.2	36.8	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.583	0.000	0.000	0.679	0.000	0.250	0.000	0.000	0.250	0.714
Entering Leg	0	0	0	0	0	0	0	0	0	0	12	7	0	0	19	0	1	0	0	1	20
Exiting Leg						7					13					0					20
Total						7					13					19					40

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Highland Avenue								Grove Street								Highland Avenue								Grove Street								Total				
	from North								from East								from South								from West												
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total						
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
4:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	6	0	0	0	0	0	8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	10
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	5	0	0	0	0	0	6	0	1	1	0	1	0	3	0	0	0	0	0	0	0	10
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	1	9	0	0	1	0	0	0	1	0	0	0	0	0	0	0	10
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	6	0	1	1	0	0	0	2	0	0	0	0	0	0	0	8
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	12	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	30	0	0	0	0	1	34	0	2	3	0	1	0	6	0	0	0	0	0	0	0	42
Grand Total	0	0	0	0	0	0	0	0	1	0	0	1	1	3	5	36	0	0	0	0	1	42	0	2	4	0	1	0	7	0	0	0	0	0	0	0	52
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3	33.3	11.9	85.7	0.0	0.0	0.0	2.4	0.0	28.6	57.1	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	1.9	1.9	5.8	9.6	69.2	0.0	0.0	0.0	1.9	80.8	0.0	3.8	7.7	0.0	1.9	0.0	13.5									
Exiting Leg Total	40							9							1							2							52								

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue								Grove Street								Highland Avenue								Grove Street								Total				
	from North								from East								from South								from West												
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total						
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	5	0	0	0	0	0	6	0	1	1	0	1	0	3	0	0	0	0	0	0	0	10
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	1	9	0	0	1	0	0	0	1	0	0	0	0	0	0	0	10
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	6	0	1	1	0	0	0	2	0	0	0	0	0	0	0	8
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	12	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total Volume	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	30	0	0	0	0	1	34	0	2	3	0	1	0	6	0	0	0	0	0	0	0	42
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	8.8	88.2	0.0	0.0	0.0	2.9	0.0	33.3	50.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.500	0.750	0.625	0.000	0.000	0.000	0.250	0.654	0.000	0.500	0.750	0.000	0.250	0.000	0.500	0.750								
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	30	0	0	0	0	1	34	0	2	3	0	1	0	6	0	0	0	0	0	0	0	42
Exiting Leg	33							7							1							1							42								
Total	33							9							35							7							84								

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Highland Avenue							Grove Street							Highland Avenue							Grove Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	0	12	16	28	0	0	0	0	10	14	24	0	0	0	0	0	1	1	0	0	0	0	10	5	15	68
4:15 PM	0	0	0	0	8	11	19	0	0	0	0	12	10	22	0	0	0	0	0	0	0	0	0	0	12	8	20	61	
4:30 PM	0	0	0	0	14	10	24	0	0	0	0	13	8	21	0	0	0	0	0	0	0	0	0	5	8	13	58		
4:45 PM	0	0	0	0	13	20	33	0	0	0	0	11	14	25	0	0	0	0	0	2	2	0	0	0	2	4	6	66	
Total	0	0	0	0	47	57	104	0	0	0	0	46	46	92	0	0	0	0	0	3	3	0	0	0	29	25	54	253	
5:00 PM	0	0	0	0	14	20	34	0	0	0	0	19	22	41	0	0	0	0	0	0	0	0	0	3	13	16	91		
5:15 PM	0	0	0	0	24	20	44	0	0	0	0	15	18	33	0	0	0	0	0	2	2	0	0	0	8	15	23	102	
5:30 PM	0	0	0	0	18	23	41	0	0	0	0	23	17	40	0	0	0	0	0	1	1	0	0	0	12	5	17	99	
5:45 PM	0	0	0	0	24	34	58	0	0	0	0	21	21	42	0	0	0	0	0	2	2	0	0	0	5	14	19	121	
Total	0	0	0	0	80	97	177	0	0	0	0	78	78	156	0	0	0	0	0	5	5	0	0	0	28	47	75	413	
Grand Total	0	0	0	0	127	154	281	0	0	0	0	124	124	248	0	0	0	0	0	8	8	0	0	0	57	72	129	666	
Approach %	0.0	0.0	0.0	0.0	45.2	54.8		0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	44.2	55.8		
Total %	0.0	0.0	0.0	0.0	19.1	23.1	42.2	0.0	0.0	0.0	0.0	18.6	18.6	37.2	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	8.6	10.8	19.4	
Exiting Leg Total	281							248							8							129							666

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Highland Avenue							Grove Street							Highland Avenue							Grove Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
5:00 PM	0	0	0	0	14	20	34	0	0	0	0	19	22	41	0	0	0	0	0	0	0	0	0	3	13	16	91		
5:15 PM	0	0	0	0	24	20	44	0	0	0	0	15	18	33	0	0	0	0	0	2	2	0	0	0	8	15	23	102	
5:30 PM	0	0	0	0	18	23	41	0	0	0	0	23	17	40	0	0	0	0	0	1	1	0	0	0	12	5	17	99	
5:45 PM	0	0	0	0	24	34	58	0	0	0	0	21	21	42	0	0	0	0	0	2	2	0	0	0	5	14	19	121	
Total Volume	0	0	0	0	80	97	177	0	0	0	0	78	78	156	0	0	0	0	0	5	5	0	0	0	28	47	75	413	
% Approach Total	0.0	0.0	0.0	0.0	45.2	54.8		0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	37.3	62.7		
PHF	0.000	0.000	0.000	0.000	0.833	0.713	0.763	0.000	0.000	0.000	0.000	0.848	0.886	0.929	0.000	0.000	0.000	0.000	0.000	0.625	0.625	0.000	0.000	0.000	0.000	0.583	0.783	0.815	0.853
Entering Leg	0	0	0	0	80	97	177	0	0	0	0	78	78	156	0	0	0	0	0	5	5	0	0	0	28	47	75	413	
Exiting Leg	177							156							5							75							413
Total	354							312							10							150							826

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	1	0	0	0	1	16	170	33	0	219	0	1	21	0	22	242
11:15 AM	0	0	0	0	0	1	0	0	0	1	22	192	45	0	259	0	4	22	0	26	286
11:30 AM	0	0	0	0	0	0	1	0	0	1	20	193	39	0	252	0	5	38	0	43	296
11:45 AM	0	0	0	0	0	1	0	0	0	1	14	190	33	0	237	0	4	33	2	39	277
Total	0	0	0	0	0	3	1	0	0	4	72	745	150	0	967	0	14	114	2	130	1101
12:00 PM	0	0	0	0	0	1	0	0	0	1	13	207	35	0	255	0	3	26	0	29	285
12:15 PM	0	0	0	0	0	1	0	0	0	1	11	171	30	0	212	0	4	33	0	37	250
12:30 PM	0	0	0	0	0	0	0	0	0	0	7	193	31	0	231	0	3	19	0	22	253
12:45 PM	0	0	0	0	0	0	0	0	0	0	14	180	35	0	229	0	1	35	0	36	265
Total	0	0	0	0	0	2	0	0	0	2	45	751	131	0	927	0	11	113	0	124	1053
1:00 PM	0	0	1	0	1	1	0	0	0	1	9	168	21	0	198	0	4	31	0	35	235
1:15 PM	0	0	0	0	0	2	0	0	0	2	14	190	47	0	251	0	4	43	0	47	300
1:30 PM	0	0	0	0	0	1	1	0	0	2	9	168	31	0	208	0	6	36	0	42	252
1:45 PM	0	0	0	0	0	1	1	0	0	2	10	172	30	0	212	0	6	29	0	35	249
Total	0	0	1	0	1	5	2	0	0	7	42	698	129	0	869	0	20	139	0	159	1036
Grand Total	0	0	1	0	1	10	3	0	0	13	159	2194	410	0	2763	0	45	366	2	413	3190
Approach %	0.0	0.0	100.0	0.0		76.9	23.1	0.0	0.0		5.8	79.4	14.8	0.0		0.0	10.9	88.6	0.5		
Total %	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.4	5.0	68.8	12.9	0.0	86.6	0.0	1.4	11.5	0.1	12.9	
Exiting Leg Total	2570					205					0					415					3190
Cars	0	0	1	0	1	8	3	0	0	11	137	2165	407	0	2709	0	40	357	2	399	3120
% Cars	0.0	0.0	100.0	0.0	100.0	80.0	100.0	0.0	0.0	84.6	86.2	98.7	99.3	0.0	98.0	0.0	88.9	97.5	100.0	96.6	97.8
Exiting Leg Total	2530					178					0					412					3120
Heavy Vehicles	0	0	0	0	0	2	0	0	0	2	22	29	3	0	54	0	5	9	0	14	70
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	15.4	13.8	1.3	0.7	0.0	2.0	0.0	11.1	2.5	0.0	3.4	2.2
Exiting Leg Total	40					27					0					3					70

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	0	0	0	0	1	0	0	0	1	22	192	45	0	259	0	4	22	0	26	286
11:30 AM	0	0	0	0	0	0	1	0	0	1	20	193	39	0	252	0	5	38	0	43	296
11:45 AM	0	0	0	0	0	1	0	0	0	1	14	190	33	0	237	0	4	33	2	39	277
12:00 PM	0	0	0	0	0	1	0	0	0	1	13	207	35	0	255	0	3	26	0	29	285
Total Volume	0	0	0	0	0	3	1	0	0	4	69	782	152	0	1003	0	16	119	2	137	1144
% Approach Total	0.0	0.0	0.0	0.0		75.0	25.0	0.0	0.0		6.9	78.0	15.2	0.0		0.0	11.7	86.9	1.5		
PHF	0.000	0.000	0.000	0.000	0.000	0.750	0.250	0.000	0.000	1.000	0.784	0.944	0.844	0.000	0.968	0.000	0.800	0.783	0.250	0.797	0.966
Cars	0	0	0	0	0	3	1	0	0	4	61	772	151	0	984	0	14	118	2	134	1122
Cars %	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	88.4	98.7	99.3	0.0	98.1	0.0	87.5	99.2	100.0	97.8	98.1
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	8	10	1	0	19	0	2	1	0	3	22
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	1.3	0.7	0.0	1.9	0.0	12.5	0.8	0.0	2.2	1.9
Cars Enter Leg	0	0	0	0	0	3	1	0	0	4	61	772	151	0	984	0	14	118	2	134	1122
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	8	10	1	0	19	0	2	1	0	3	22
Total Entering Leg	0	0	0	0	0	3	1	0	0	4	69	782	152	0	1003	0	16	119	2	137	1144
Cars Exiting Leg	893					75					0					154					1122
Heavy Exiting Leg	11					10					0					1					22
Total Exiting Leg	904					85					0					155					1144

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	0	0	0	0	15	167	33	0	215	0	1	20	0	21	236
11:15 AM	0	0	0	0	0	1	0	0	0	1	19	190	45	0	254	0	3	22	0	25	280
11:30 AM	0	0	0	0	0	0	1	0	0	1	20	190	38	0	248	0	5	38	0	43	292
11:45 AM	0	0	0	0	0	1	0	0	0	1	11	190	33	0	234	0	3	33	2	38	273
Total	0	0	0	0	0	2	1	0	0	3	65	737	149	0	951	0	12	113	2	127	1081
12:00 PM	0	0	0	0	0	1	0	0	0	1	11	202	35	0	248	0	3	25	0	28	277
12:15 PM	0	0	0	0	0	0	0	0	0	0	10	170	30	0	210	0	3	33	0	36	246
12:30 PM	0	0	0	0	0	0	0	0	0	0	7	191	29	0	227	0	3	19	0	22	249
12:45 PM	0	0	0	0	0	0	0	0	0	0	11	178	35	0	224	0	1	34	0	35	259
Total	0	0	0	0	0	1	0	0	0	1	39	741	129	0	909	0	10	111	0	121	1031
1:00 PM	0	0	1	0	1	1	0	0	0	1	6	166	21	0	193	0	4	30	0	34	229
1:15 PM	0	0	0	0	0	2	0	0	0	2	12	186	47	0	245	0	3	40	0	43	290
1:30 PM	0	0	0	0	0	1	1	0	0	2	9	167	31	0	207	0	6	36	0	42	251
1:45 PM	0	0	0	0	0	1	1	0	0	2	6	168	30	0	204	0	5	27	0	32	238
Total	0	0	1	0	1	5	2	0	0	7	33	687	129	0	849	0	18	133	0	151	1008
Grand Total	0	0	1	0	1	8	3	0	0	11	137	2165	407	0	2709	0	40	357	2	399	3120
Approach %	0.0	0.0	100.0	0.0		72.7	27.3	0.0	0.0		5.1	79.9	15.0	0.0		0.0	10.0	89.5	0.5		
Total %	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.4	4.4	69.4	13.0	0.0	86.8	0.0	1.3	11.4	0.1	12.8	
Exiting Leg Total	2530					178					0					412					3120

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:15 AM	0	0	0	0	0	1	0	0	0	1	19	190	45	0	254	0	3	22	0	25	280
11:30 AM	0	0	0	0	0	0	1	0	0	1	20	190	38	0	248	0	5	38	0	43	292
11:45 AM	0	0	0	0	0	1	0	0	0	1	11	190	33	0	234	0	3	33	2	38	273
12:00 PM	0	0	0	0	0	1	0	0	0	1	11	202	35	0	248	0	3	25	0	28	277
Total Volume	0	0	0	0	0	3	1	0	0	4	61	772	151	0	984	0	14	118	2	134	1122
% Approach Total	0.0	0.0	0.0	0.0		75.0	25.0	0.0	0.0		6.2	78.5	15.3	0.0		0.0	10.4	88.1	1.5		
PHF	0.000	0.000	0.000	0.000	0.000	0.750	0.250	0.000	0.000	1.000	0.763	0.955	0.839	0.000	0.969	0.000	0.700	0.776	0.250	0.779	0.961
Entering Leg	0	0	0	0	0	3	1	0	0	4	61	772	151	0	984	0	14	118	2	134	1122
Exiting Leg	893					75					0					154					1122
Total	893					79					984					288					2244

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	1	0	0	0	1	1	3	0	0	4	0	0	1	0	1	6
11:15 AM	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	0	1	0	0	1	6
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	4
11:45 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	4
Total	0	0	0	0	0	1	0	0	0	1	7	8	1	0	16	0	2	1	0	3	20
12:00 PM	0	0	0	0	0	0	0	0	0	0	2	5	0	0	7	0	0	1	0	1	8
12:15 PM	0	0	0	0	0	1	0	0	0	1	1	1	0	0	2	0	1	0	0	1	4
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	4
12:45 PM	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	0	0	1	0	1	6
Total	0	0	0	0	0	1	0	0	0	1	6	10	2	0	18	0	1	2	0	3	22
1:00 PM	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	0	0	1	0	1	6
1:15 PM	0	0	0	0	0	0	0	0	0	0	2	4	0	0	6	0	1	3	0	4	10
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	0	0	0	0	0	4	4	0	0	8	0	1	2	0	3	11
Total	0	0	0	0	0	0	0	0	0	0	9	11	0	0	20	0	2	6	0	8	28
Grand Total	0	0	0	0	0	2	0	0	0	2	22	29	3	0	54	0	5	9	0	14	70
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		40.7	53.7	5.6	0.0		0.0	35.7	64.3	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	2.9	31.4	41.4	4.3	0.0	77.1	0.0	7.1	12.9	0.0	20.0	
Exiting Leg Total	40					27					0					3					70
Large Trucks	0	0	0	0	0	2	0	0	0	2	0	25	3	0	28	0	0	9	0	9	39
% Large Trucks	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	86.2	100.0	0.0	51.9	0.0	0.0	100.0	0.0	64.3	55.7
Exiting Leg Total	36					0					0					3					39
Buses	0	0	0	0	0	0	0	0	0	0	22	4	0	0	26	0	5	0	0	5	31
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	13.8	0.0	0.0	48.1	0.0	100.0	0.0	0.0	35.7	44.3
Exiting Leg Total	4					27					0					0					31

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
1:00 PM	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	0	0	1	0	1	6
1:15 PM	0	0	0	0	0	0	0	0	0	0	2	4	0	0	6	0	1	3	0	4	10
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	0	0	0	0	0	4	4	0	0	8	0	1	2	0	3	11
Total Volume	0	0	0	0	0	0	0	0	0	0	9	11	0	0	20	0	2	6	0	8	28
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		45.0	55.0	0.0	0.0		0.0	25.0	75.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.563	0.688	0.000	0.000	0.625	0.000	0.500	0.500	0.000	0.500	0.636
Large Trucks	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	6	0	6	16
Large Trucks %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.9	0.0	0.0	50.0	0.0	0.0	100.0	0.0	75.0	57.1
Buses	0	0	0	0	0	0	0	0	0	0	9	1	0	0	10	0	2	0	0	2	12
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	9.1	0.0	0.0	50.0	0.0	100.0	0.0	0.0	25.0	42.9
Trucks Enter Leg	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	6	0	6	16
Bus Enter Leg	0	0	0	0	0	0	0	0	0	0	9	1	0	0	10	0	2	0	0	2	12
Total Entering Leg	0	0	0	0	0	0	0	0	0	0	9	11	0	0	20	0	2	6	0	8	28
Trucks Exiting Leg	16					0					0					0					16
Buses Exiting Leg	1					11					0					0					12
Total Exiting Leg	17					11					0					0					28

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	0	0	1	0	1	4
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	0	1	0	5	1	0	6	0	0	1	0	1	8
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	6
12:15 PM	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	2
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	4
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
Total	0	0	0	0	0	1	0	0	0	1	0	10	2	0	12	0	0	2	0	2	15
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	3	0	3	6
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	2	0	2	6
Total	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	6	0	6	16
Grand Total	0	0	0	0	0	2	0	0	0	2	0	25	3	0	28	0	0	9	0	9	39
Approach %	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	89.3	10.7	0.0		0.0	0.0	100.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	5.1	0.0	64.1	7.7	0.0	71.8	0.0	0.0	23.1	0.0	23.1	
Exiting Leg Total	36					0					0					3					39

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	4
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	3	0	3	6
Total Volume	0	0	0	0	0	0	0	0	0	0	0	9	2	0	11	0	0	5	0	5	16
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	81.8	18.2	0.0		0.0	0.0	100.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.250	0.000	0.688	0.000	0.000	0.417	0.000	0.417	0.667
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	9	2	0	11	0	0	5	0	5	16
Exiting Leg	14					0					0					2					16
Total	14					0					11					7					32

PDI File #: **175971 J**
 Location: **N: Highland Avenue S: Highland Avenue**
 Location: **E: Grove Street W: Grove Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	0	0	0	0	0	4
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	0	0	0	0	0	4
Total	0	0	0	0	0	0	0	0	0	0	7	3	0	0	10	0	2	0	0	2	0	0	0	0	0	12
12:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	2
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Total	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	0	1	0	0	1	0	0	0	0	0	7
1:00 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
1:15 PM	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	1	0	0	1	0	0	0	0	0	4
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	1	0	0	1	0	0	0	0	0	5
Total	0	0	0	0	0	0	0	0	0	0	9	1	0	0	10	0	2	0	0	2	0	0	0	0	0	12
Grand Total	0	0	0	0	0	0	0	0	0	0	22	4	0	0	26	0	5	0	0	5	0	0	0	0	0	31
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		84.6	15.4	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0	12.9	0.0	0.0	83.9	0.0	16.1	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total	4					27					0					0					31					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Highland Avenue					Grove Street					Highland Avenue					Grove Street					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	0	0	0	0	0	4
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:45 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	0	0	0	0	0	4
Total Volume	0	0	0	0	0	0	0	0	0	0	7	3	0	0	10	0	2	0	0	2	0	0	0	0	0	12
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		70.0	30.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.375	0.000	0.000	0.833	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000		0.750
Entering Leg	0	0	0	0	0	0	0	0	0	0	7	3	0	0	10	0	2	0	0	2	0	0	0	0	0	12
Exiting Leg	3					9					0					0					12					
Total	3					9					10					2					24					

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Highland Avenue								Grove Street								Highland Avenue								Grove Street								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	0	0	1	9	1	0	0	0	0	0	1	10	
11:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	9	1	0	0	0	0	0	10	0	0	0	0	0	0	0	12	
11:30 AM	0	0	0	0	0	0	0	0	1	1	0	0	1	4	0	4	0	0	0	0	0	0	4	0	0	0	0	1	0	1	9		
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	4	0	0	0	0	0	5	0	0	0	0	0	0	0	8		
Total	0	0	0	0	0	0	0	0	1	2	0	0	2	4	9	1	23	3	0	0	0	1	28	1	0	0	0	1	0	2	39		
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	9	0	1	1	0	0	1	3	12		
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	5	0	0	0	0	0	0	0	5		
12:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	7		
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	7	0	0	0	0	0	0	0	7		
Total	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	2	19	5	0	0	0	0	26	0	1	1	0	0	1	3	31		
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	1	1	6		
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12	1	0	0	0	0	14	0	0	0	0	0	0	0	14		
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	5		
1:45 PM	0	0	0	0	1	2	3	0	0	0	0	0	1	1	2	3	0	0	0	0	0	0	5	0	0	0	0	0	0	0	9		
Total	0	0	0	0	1	2	3	0	0	0	0	0	2	2	5	22	1	0	0	0	0	0	28	0	0	0	0	0	1	1	34		
Grand Total	0	0	0	0	1	2	3	1	4	0	0	2	6	13	8	64	9	0	0	0	1	82	1	1	1	0	1	2	6	104			
Approach %	0.0	0.0	0.0	0.0	33.3	66.7		7.7	30.8	0.0	0.0	15.4	46.2		9.8	78.0	11.0	0.0	0.0	1.2		16.7	16.7	16.7	0.0	16.7	33.3						
Total %	0.0	0.0	0.0	0.0	1.0	1.9	2.9	1.0	3.8	0.0	0.0	1.9	5.8	12.5	7.7	61.5	8.7	0.0	0.0	1.0	78.8	1.0	1.0	1.0	0.0	1.0	1.9	5.8					
Exiting Leg Total	69							17							2							16							104				

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue								Grove Street								Highland Avenue								Grove Street								Total
	from North								from East								from South								from West								
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total		Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total		Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total		Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total		
11:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	9	1	0	0	0	0	10	0	0	0	0	0	0	0	12		
11:30 AM	0	0	0	0	0	0	0	0	1	1	0	0	1	4	0	4	0	0	0	0	0	4	0	0	0	0	1	0	1	9			
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	4	0	0	0	0	0	5	0	0	0	0	0	0	0	8			
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	0	0	0	0	9	0	1	1	0	0	1	3	12			
Total Volume	0	0	0	0	0	0	0	1	2	0	0	2	4	9	2	22	4	0	0	0	0	28	0	1	1	0	1	1	4	41			
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		11.1	22.2	0.0	0.0	22.2	44.4		7.1	78.6	14.3	0.0	0.0	0.0		0.0	25.0	25.0	0.0	25.0	25.0						
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.500	0.000	0.000	0.500	0.500	0.563	0.500	0.611	0.333	0.000	0.000	0.000	0.700	0.000	0.250	0.250	0.000	0.250	0.250	0.333	0.854				
Entering Leg	0	0	0	0	0	0	0	1	2	0	0	2	4	9	2	22	4	0	0	0	0	28	0	1	1	0	1	1	4	41			
Exiting Leg	24							9							0							8							41				
Total	24							18							28							12							82				

PDI File #: 175971 J
 Location: N: Highland Avenue S: Highland Avenue
 Location: E: Grove Street W: Grove Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Highland Avenue							Grove Street							Highland Avenue							Grove Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	34	42	76	0	0	0	0	18	33	51	0	0	0	0	0	2	2	0	0	0	0	31	11	42	171
11:15 AM	0	0	0	0	25	37	62	0	0	0	0	19	25	44	0	0	0	0	0	4	4	0	0	0	0	27	10	37	147
11:30 AM	0	0	0	0	29	25	54	0	0	0	0	26	21	47	0	0	0	0	1	0	1	0	0	0	19	11	30	132	
11:45 AM	0	0	0	0	31	27	58	0	0	0	0	24	28	52	0	0	0	0	0	2	2	0	0	0	0	30	15	45	157
Total	0	0	0	0	119	131	250	0	0	0	0	87	107	194	0	0	0	0	1	8	9	0	0	0	0	107	47	154	607
12:00 PM	0	0	0	0	24	35	59	0	0	0	0	22	38	60	0	0	0	0	4	3	7	0	0	0	0	18	13	31	157
12:15 PM	0	0	0	0	18	22	40	0	0	0	0	26	30	56	0	0	0	0	0	9	9	0	0	0	0	13	14	27	132
12:30 PM	0	0	0	0	31	31	62	0	0	0	0	28	37	65	0	0	0	0	0	3	3	0	0	0	0	15	15	30	160
12:45 PM	0	0	0	0	26	33	59	0	0	0	0	38	31	69	0	0	0	0	0	0	0	0	0	0	17	15	32	160	
Total	0	0	0	0	99	121	220	0	0	0	0	114	136	250	0	0	0	0	4	15	19	0	0	0	0	63	57	120	609
1:00 PM	0	0	0	0	27	40	67	0	0	0	0	24	27	51	0	0	0	0	1	5	6	0	0	0	0	18	20	38	162
1:15 PM	0	0	0	0	33	31	64	0	0	0	0	24	23	47	0	0	0	0	1	2	3	0	0	0	0	15	27	42	156
1:30 PM	0	0	0	0	41	28	69	0	0	0	0	25	24	49	0	0	0	0	0	3	3	0	0	0	0	22	4	26	147
1:45 PM	0	0	0	0	34	24	58	0	0	0	0	16	28	44	0	0	0	0	2	1	3	0	0	0	0	21	20	41	146
Total	0	0	0	0	135	123	258	0	0	0	0	89	102	191	0	0	0	0	4	11	15	0	0	0	0	76	71	147	611
Grand Total	0	0	0	0	353	375	728	0	0	0	0	290	345	635	0	0	0	0	9	34	43	0	0	0	0	246	175	421	1827
Approach %	0.0	0.0	0.0	0.0	48.5	51.5		0.0	0.0	0.0	0.0	45.7	54.3		0.0	0.0	0.0	0.0	20.9	79.1		0.0	0.0	0.0	0.0	58.4	41.6		
Total %	0.0	0.0	0.0	0.0	19.3	20.5	39.8	0.0	0.0	0.0	0.0	15.9	18.9	34.8	0.0	0.0	0.0	0.0	0.5	1.9	2.4	0.0	0.0	0.0	0.0	13.5	9.6	23.0	
Exiting Leg Total	728							635							43							421							1827

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Highland Avenue							Grove Street							Highland Avenue							Grove Street							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
12:30 PM	0	0	0	0	31	31	62	0	0	0	0	28	37	65	0	0	0	0	0	3	3	0	0	0	0	15	15	30	160
12:45 PM	0	0	0	0	26	33	59	0	0	0	0	38	31	69	0	0	0	0	0	0	0	0	0	0	17	15	32	160	
1:00 PM	0	0	0	0	27	40	67	0	0	0	0	24	27	51	0	0	0	0	1	5	6	0	0	0	0	18	20	38	162
1:15 PM	0	0	0	0	33	31	64	0	0	0	0	24	23	47	0	0	0	0	1	2	3	0	0	0	0	15	27	42	156
Total Volume	0	0	0	0	117	135	252	0	0	0	0	114	118	232	0	0	0	0	2	10	12	0	0	0	0	65	77	142	638
% Approach Total	0.0	0.0	0.0	0.0	46.4	53.6		0.0	0.0	0.0	0.0	49.1	50.9		0.0	0.0	0.0	0.0	16.7	83.3		0.0	0.0	0.0	0.0	45.8	54.2		
PHF	0.000	0.000	0.000	0.000	0.886	0.844	0.940	0.000	0.000	0.000	0.000	0.750	0.797	0.841	0.000	0.000	0.000	0.000	0.500	0.500	0.500	0.000	0.000	0.000	0.000	0.903	0.713	0.845	0.985
Entering Leg	0	0	0	0	117	135	252	0	0	0	0	114	118	232	0	0	0	0	2	10	12	0	0	0	0	65	77	142	638
Exiting Leg	252							232							12							142							638
Total	504							464							24							284							1276

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	17	100	0	117	40	2	0	42	0	0	0	0	159	
7:15 AM	8	135	0	143	44	1	0	45	0	0	0	0	188	
7:30 AM	9	119	0	128	57	1	0	58	0	0	0	0	186	
7:45 AM	14	113	0	127	66	0	0	66	0	0	0	0	193	
Total	48	467	0	515	207	4	0	211	0	0	0	0	726	
8:00 AM	15	119	0	134	70	3	0	73	0	0	0	0	207	
8:15 AM	19	92	0	111	60	2	0	62	0	0	0	0	173	
8:30 AM	18	108	0	126	53	4	0	57	0	0	0	0	183	
8:45 AM	10	91	0	101	55	0	0	55	0	0	0	0	156	
Total	62	410	0	472	238	9	0	247	0	0	0	0	719	
Grand Total	110	877	0	987	445	13	0	458	0	0	0	0	1445	
Approach %	11.1	88.9	0.0		97.2	2.8	0.0		0.0	0.0	0.0			
Total %	7.6	60.7	0.0	68.3	30.8	0.9	0.0	31.7	0.0	0.0	0.0	0.0		
Exiting Leg Total				445				877					123	1445
Cars	109	821	0	930	423	11	0	434	0	0	0	0	1364	
% Cars	99.1	93.6	0.0	94.2	95.1	84.6	0.0	94.8	0.0	0.0	0.0	0.0	94.4	
Exiting Leg Total				423				821					120	1364
Heavy Vehicles	1	56	0	57	22	2	0	24	0	0	0	0	81	
% Heavy Vehicles	0.9	6.4	0.0	5.8	4.9	15.4	0.0	5.2	0.0	0.0	0.0	0.0	5.6	
Exiting Leg Total				22				56					3	81

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:15 AM	8	135	0	143	44	1	0	45	0	0	0	0	188	
7:30 AM	9	119	0	128	57	1	0	58	0	0	0	0	186	
7:45 AM	14	113	0	127	66	0	0	66	0	0	0	0	193	
8:00 AM	15	119	0	134	70	3	0	73	0	0	0	0	207	
Total Volume	46	486	0	532	237	5	0	242	0	0	0	0	774	
% Approach Total	8.6	91.4	0.0		97.9	2.1	0.0		0.0	0.0	0.0			
PHF	0.767	0.900	0.000	0.930	0.846	0.417	0.000	0.829	0.000	0.000	0.000	0.000	0.935	
Cars	46	452	0	498	227	4	0	231	0	0	0	0	729	
Cars %	100.0	93.0	0.0	93.6	95.8	80.0	0.0	95.5	0.0	0.0	0.0	0.0	94.2	
Heavy Vehicles	0	34	0	34	10	1	0	11	0	0	0	0	45	
Heavy Vehicles %	0.0	7.0	0.0	6.4	4.2	20.0	0.0	4.5	0.0	0.0	0.0	0.0	5.8	
Cars Enter Leg	46	452	0	498	227	4	0	231	0	0	0	0	729	
Heavy Enter Leg	0	34	0	34	10	1	0	11	0	0	0	0	45	
Total Entering Leg	46	486	0	532	237	5	0	242	0	0	0	0	774	
Cars Exiting Leg				227				452					50	729
Heavy Exiting Leg				10				34					1	45
Total Exiting Leg				237				486					51	774

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	17	94	0	111	39	2	0	41	0	0	0	0	152
7:15 AM	8	121	0	129	42	1	0	43	0	0	0	0	172
7:30 AM	9	114	0	123	52	0	0	52	0	0	0	0	175
7:45 AM	14	106	0	120	64	0	0	64	0	0	0	0	184
Total	48	435	0	483	197	3	0	200	0	0	0	0	683
8:00 AM	15	111	0	126	69	3	0	72	0	0	0	0	198
8:15 AM	19	88	0	107	56	2	0	58	0	0	0	0	165
8:30 AM	17	102	0	119	49	3	0	52	0	0	0	0	171
8:45 AM	10	85	0	95	52	0	0	52	0	0	0	0	147
Total	61	386	0	447	226	8	0	234	0	0	0	0	681
Grand Total	109	821	0	930	423	11	0	434	0	0	0	0	1364
Approach %	11.7	88.3	0.0		97.5	2.5	0.0		0.0	0.0	0.0		
Total %	8.0	60.2	0.0	68.2	31.0	0.8	0.0	31.8	0.0	0.0	0.0	0.0	
Exiting Leg Total				423				821				120	1364

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:15 AM	8	121	0	129	42	1	0	43	0	0	0	0	172
7:30 AM	9	114	0	123	52	0	0	52	0	0	0	0	175
7:45 AM	14	106	0	120	64	0	0	64	0	0	0	0	184
8:00 AM	15	111	0	126	69	3	0	72	0	0	0	0	198
Total Volume	46	452	0	498	227	4	0	231	0	0	0	0	729
% Approach Total	9.2	90.8	0.0		98.3	1.7	0.0		0.0	0.0	0.0		
PHF	0.767	0.934	0.000	0.965	0.822	0.333	0.000	0.802	0.000	0.000	0.000	0.000	0.920
Entering Leg	46	452	0	498	227	4	0	231	0	0	0	0	729
Exiting Leg				227				452				50	729
Total				725				683				50	1458

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	0	6	0	6	1	0	0	1	0	0	0	0	7
7:15 AM	0	14	0	14	2	0	0	2	0	0	0	0	16
7:30 AM	0	5	0	5	5	1	0	6	0	0	0	0	11
7:45 AM	0	7	0	7	2	0	0	2	0	0	0	0	9
Total	0	32	0	32	10	1	0	11	0	0	0	0	43
8:00 AM	0	8	0	8	1	0	0	1	0	0	0	0	9
8:15 AM	0	4	0	4	4	0	0	4	0	0	0	0	8
8:30 AM	1	6	0	7	4	1	0	5	0	0	0	0	12
8:45 AM	0	6	0	6	3	0	0	3	0	0	0	0	9
Total	1	24	0	25	12	1	0	13	0	0	0	0	38
Grand Total	1	56	0	57	22	2	0	24	0	0	0	0	81
Approach %	1.8	98.2	0.0		91.7	8.3	0.0		0.0	0.0	0.0		
Total %	1.2	69.1	0.0	70.4	27.2	2.5	0.0	29.6	0.0	0.0	0.0	0.0	
Exiting Leg Total				22				56					3
Large Trucks	1	35	0	36	4	2	0	6	0	0	0	0	42
% Large Trucks	100.0	62.5	0.0	63.2	18.2	100.0	0.0	25.0	0.0	0.0	0.0	0.0	51.9
Exiting Leg Total				4				35					3
Buses	0	21	0	21	18	0	0	18	0	0	0	0	39
% Buses	0.0	37.5	0.0	36.8	81.8	0.0	0.0	75.0	0.0	0.0	0.0	0.0	48.1
Exiting Leg Total				18				21					0

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:15 AM	0	14	0	14	2	0	0	2	0	0	0	0	16
7:30 AM	0	5	0	5	5	1	0	6	0	0	0	0	11
7:45 AM	0	7	0	7	2	0	0	2	0	0	0	0	9
8:00 AM	0	8	0	8	1	0	0	1	0	0	0	0	9
Total Volume	0	34	0	34	10	1	0	11	0	0	0	0	45
% Approach Total	0.0	100.0	0.0		90.9	9.1	0.0		0.0	0.0	0.0		
PHF	0.000	0.607	0.000	0.607	0.500	0.250	0.000	0.458	0.000	0.000	0.000	0.000	0.703
Large Trucks	0	24	0	24	2	1	0	3	0	0	0	0	27
Large Trucks %	0.0	70.6	0.0	70.6	20.0	100.0	0.0	27.3	0.0	0.0	0.0	0.0	60.0
Buses	0	10	0	10	8	0	0	8	0	0	0	0	18
Buses %	0.0	29.4	0.0	29.4	80.0	0.0	0.0	72.7	0.0	0.0	0.0	0.0	40.0
Trucks Enter Leg	0	24	0	24	2	1	0	3	0	0	0	0	27
Bus Enter Leg	0	10	0	10	8	0	0	8	0	0	0	0	18
Total Entering Leg	0	34	0	34	10	1	0	11	0	0	0	0	45
Trucks Exiting Leg				2				24					1
Buses Exiting Leg				8				10					0
Total Exiting Leg				10				34					1

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:00 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
7:15 AM	0	9	0	9	0	0	0	0	0	0	0	0	0	9
7:30 AM	0	4	0	4	2	1	0	3	0	0	0	0	0	7
7:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
Total	0	21	0	21	2	1	0	3	0	0	0	0	0	24
8:00 AM	0	7	0	7	0	0	0	0	0	0	0	0	0	7
8:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	0	2
8:30 AM	1	3	0	4	1	1	0	2	0	0	0	0	0	6
8:45 AM	0	3	0	3	0	0	0	0	0	0	0	0	0	3
Total	1	14	0	15	2	1	0	3	0	0	0	0	0	18
Grand Total	1	35	0	36	4	2	0	6	0	0	0	0	0	42
Approach %	2.8	97.2	0.0		66.7	33.3	0.0		0.0	0.0	0.0			
Total %	2.4	83.3	0.0	85.7	9.5	4.8	0.0	14.3	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				4				35						3

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
7:15 AM	0	9	0	9	0	0	0	0	0	0	0	0	0	9
7:30 AM	0	4	0	4	2	1	0	3	0	0	0	0	0	7
7:45 AM	0	4	0	4	0	0	0	0	0	0	0	0	0	4
8:00 AM	0	7	0	7	0	0	0	0	0	0	0	0	0	7
Total Volume	0	24	0	24	2	1	0	3	0	0	0	0	0	27
% Approach Total	0.0	100.0	0.0		66.7	33.3	0.0		0.0	0.0	0.0			
PHF	0.000	0.667	0.000	0.667	0.250	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	24	0	24	2	1	0	3	0	0	0	0	0	27
Exiting Leg				2				24					1	27
Total				26				27					1	54

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
7:00 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
7:15 AM	0	5	0	5	2	0	0	2	0	0	0	0	7
7:30 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
7:45 AM	0	3	0	3	2	0	0	2	0	0	0	0	5
Total	0	11	0	11	8	0	0	8	0	0	0	0	19
8:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
8:15 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
8:30 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
8:45 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
Total	0	10	0	10	10	0	0	10	0	0	0	0	20
Grand Total	0	21	0	21	18	0	0	18	0	0	0	0	39
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	53.8	0.0	53.8	46.2	0.0	0.0	46.2	0.0	0.0	0.0	0.0	
Exiting Leg Total				18				21					39

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
8:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
8:15 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
8:30 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
8:45 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
Total Volume	0	10	0	10	10	0	0	10	0	0	0	0	20
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.833	0.000	0.833	0.833	0.000	0.000	0.833	0.000	0.000	0.000	0.000	0.833
Entering Leg	0	10	0	10	10	0	0	10	0	0	0	0	20
Exiting Leg				10				10					20
Total				20				20					40

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
7:15 AM	0	3	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	0	4
7:30 AM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
7:45 AM	0	7	0	0	0	7	1	0	0	0	0	1	0	0	0	0	0	0	8
Total	0	19	0	0	0	19	2	0	0	0	0	2	0	0	0	0	0	0	21
8:00 AM	2	7	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
8:15 AM	0	5	0	0	0	5	1	0	0	1	4	6	0	0	0	0	0	0	11
8:30 AM	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	1	1	9
8:45 AM	0	5	0	0	0	5	2	0	0	2	1	5	0	0	0	0	1	1	11
Total	2	25	0	0	0	27	3	0	0	3	5	11	0	0	0	0	2	2	40
Grand Total	2	44	0	0	0	46	5	0	0	3	5	13	0	0	0	0	2	2	61
Approach %	4.3	95.7	0.0	0.0	0.0		38.5	0.0	0.0	23.1	38.5		0.0	0.0	0.0	0.0	100.0		
Total %	3.3	72.1	0.0	0.0	0.0	75.4	8.2	0.0	0.0	4.9	8.2	21.3	0.0	0.0	0.0	0.0	3.3	3.3	
Exiting Leg Total							5							52	4	61			

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	2	7	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
8:15 AM	0	5	0	0	0	5	1	0	0	1	4	6	0	0	0	0	0	0	11
8:30 AM	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	1	1	9
8:45 AM	0	5	0	0	0	5	2	0	0	2	1	5	0	0	0	0	1	1	11
Total Volume	2	25	0	0	0	27	3	0	0	3	5	11	0	0	0	0	2	2	40
% Approach Total	7.4	92.6	0.0	0.0	0.0		27.3	0.0	0.0	27.3	45.5		0.0	0.0	0.0	0.0	100.0		
PHF	0.250	0.781	0.000	0.000	0.000	0.750	0.375	0.000	0.000	0.375	0.313	0.458	0.000	0.000	0.000	0.000	0.500	0.500	0.909
Entering Leg	2	25	0	0	0	27	3	0	0	3	5	11	0	0	0	0	2	2	40
Exiting Leg							3							33	4	40			
Total							30							44	6	80			

PDI File #: **175971 K**
 Location: **N: College Avenue S: College Avenue**
 Location: **W: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	1	1	2	0	0	0	6	48	54	0	0	0	5	11	16	72
7:15 AM	0	0	0	0	0	0	0	0	0	8	74	82	0	0	0	0	25	25	107
7:30 AM	0	0	0	0	0	0	0	0	0	14	35	49	0	0	0	3	28	31	80
7:45 AM	0	0	0	12	0	12	0	0	0	13	77	90	0	0	0	7	22	29	131
Total	0	0	0	13	1	14	0	0	0	41	234	275	0	0	0	15	86	101	390
8:00 AM	0	0	0	2	0	2	0	0	0	15	46	61	0	0	0	8	33	41	104
8:15 AM	0	0	0	49	0	49	0	0	0	25	74	99	0	0	0	8	45	53	201
8:30 AM	0	0	0	0	0	0	0	0	0	28	75	103	0	0	0	3	21	24	127
8:45 AM	0	0	0	0	0	0	0	0	0	15	126	141	0	0	0	10	22	32	173
Total	0	0	0	51	0	51	0	0	0	83	321	404	0	0	0	29	121	150	605
Grand Total	0	0	0	64	1	65	0	0	0	124	555	679	0	0	0	44	207	251	995
Approach %	0.0	0.0	0.0	98.5	1.5		0.0	0.0	0.0	18.3	81.7		0.0	0.0	0.0	17.5	82.5		
Total %	0.0	0.0	0.0	6.4	0.1	6.5	0.0	0.0	0.0	12.5	55.8	68.2	0.0	0.0	0.0	4.4	20.8	25.2	
Exiting Leg Total	65						679						251						995

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
8:00 AM	0	0	0	2	0	2	0	0	0	15	46	61	0	0	0	8	33	41	104
8:15 AM	0	0	0	49	0	49	0	0	0	25	74	99	0	0	0	8	45	53	201
8:30 AM	0	0	0	0	0	0	0	0	0	28	75	103	0	0	0	3	21	24	127
8:45 AM	0	0	0	0	0	0	0	0	0	15	126	141	0	0	0	10	22	32	173
Total Volume	0	0	0	51	0	51	0	0	0	83	321	404	0	0	0	29	121	150	605
% Approach Total	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	20.5	79.5		0.0	0.0	0.0	19.3	80.7		
PHF	0.000	0.000	0.000	0.260	0.000	0.260	0.000	0.000	0.000	0.741	0.637	0.716	0.000	0.000	0.000	0.725	0.672	0.708	0.752
Entering Leg	0	0	0	51	0	51	0	0	0	83	321	404	0	0	0	29	121	150	605
Exiting Leg	51						404						150						605
Total	102						808						300						1210

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
4:00 PM	16	66	0	82	116	7	0	123	0	0	0	0	205
4:15 PM	11	71	0	82	83	9	0	92	0	0	0	0	174
4:30 PM	16	94	0	110	109	5	0	114	0	0	0	0	224
4:45 PM	19	75	0	94	93	5	0	98	0	0	0	0	192
Total	62	306	0	368	401	26	0	427	0	0	0	0	795
5:00 PM	15	71	0	86	99	7	0	106	0	0	0	0	192
5:15 PM	20	82	0	102	126	4	0	130	0	0	0	0	232
5:30 PM	18	53	0	71	115	2	0	117	0	0	0	0	188
5:45 PM	22	51	0	73	76	2	0	78	0	0	0	0	151
Total	75	257	0	332	416	15	0	431	0	0	0	0	763
Grand Total	137	563	0	700	817	41	0	858	0	0	0	0	1558
Approach %	19.6	80.4	0.0		95.2	4.8	0.0		0.0	0.0	0.0		
Total %	8.8	36.1	0.0	44.9	52.4	2.6	0.0	55.1	0.0	0.0	0.0	0.0	
Exiting Leg Total				817				563					178
Cars	136	537	0	673	793	41	0	834	0	0	0	0	1507
% Cars	99.3	95.4	0.0	96.1	97.1	100.0	0.0	97.2	0.0	0.0	0.0	0.0	96.7
Exiting Leg Total				793				537					177
Heavy Vehicles	1	26	0	27	24	0	0	24	0	0	0	0	51
% Heavy Vehicles	0.7	4.6	0.0	3.9	2.9	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3.3
Exiting Leg Total				24				26					1

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
4:30 PM	16	94	0	110	109	5	0	114	0	0	0	0	224
4:45 PM	19	75	0	94	93	5	0	98	0	0	0	0	192
5:00 PM	15	71	0	86	99	7	0	106	0	0	0	0	192
5:15 PM	20	82	0	102	126	4	0	130	0	0	0	0	232
Total Volume	70	322	0	392	427	21	0	448	0	0	0	0	840
% Approach Total	17.9	82.1	0.0		95.3	4.7	0.0		0.0	0.0	0.0		
PHF	0.875	0.856	0.000	0.891	0.847	0.750	0.000	0.862	0.000	0.000	0.000	0.000	0.905
Cars	69	308	0	377	416	21	0	437	0	0	0	0	814
Cars %	98.6	95.7	0.0	96.2	97.4	100.0	0.0	97.5	0.0	0.0	0.0	0.0	96.9
Heavy Vehicles	1	14	0	15	11	0	0	11	0	0	0	0	26
Heavy Vehicles %	1.4	4.3	0.0	3.8	2.6	0.0	0.0	2.5	0.0	0.0	0.0	0.0	3.1
Cars Enter Leg	69	308	0	377	416	21	0	437	0	0	0	0	814
Heavy Enter Leg	1	14	0	15	11	0	0	11	0	0	0	0	26
Total Entering Leg	70	322	0	392	427	21	0	448	0	0	0	0	840
Cars Exiting Leg				416				308					90
Heavy Exiting Leg				11				14					1
Total Exiting Leg				427				322					91

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	16	63	0	79	112	7	0	119	0	0	0	0	198	
4:15 PM	11	67	0	78	80	9	0	89	0	0	0	0	167	
4:30 PM	16	91	0	107	107	5	0	112	0	0	0	0	219	
4:45 PM	19	71	0	90	90	5	0	95	0	0	0	0	185	
Total	62	292	0	354	389	26	0	415	0	0	0	0	769	
5:00 PM	15	70	0	85	97	7	0	104	0	0	0	0	189	
5:15 PM	19	76	0	95	122	4	0	126	0	0	0	0	221	
5:30 PM	18	50	0	68	111	2	0	113	0	0	0	0	181	
5:45 PM	22	49	0	71	74	2	0	76	0	0	0	0	147	
Total	74	245	0	319	404	15	0	419	0	0	0	0	738	
Grand Total	136	537	0	673	793	41	0	834	0	0	0	0	1507	
Approach %	20.2	79.8	0.0		95.1	4.9	0.0		0.0	0.0	0.0			
Total %	9.0	35.6	0.0	44.7	52.6	2.7	0.0	55.3	0.0	0.0	0.0	0.0		
Exiting Leg Total				793				537					177	1507

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
4:30 PM	16	91	0	107	107	5	0	112	0	0	0	0	219
4:45 PM	19	71	0	90	90	5	0	95	0	0	0	0	185
5:00 PM	15	70	0	85	97	7	0	104	0	0	0	0	189
5:15 PM	19	76	0	95	122	4	0	126	0	0	0	0	221
Total Volume	69	308	0	377	416	21	0	437	0	0	0	0	814
% Approach Total	18.3	81.7	0.0		95.2	4.8	0.0		0.0	0.0	0.0		
PHF	0.908	0.846	0.000	0.881	0.852	0.750	0.000	0.867	0.000	0.000	0.000	0.000	0.921
Entering Leg	69	308	0	377	416	21	0	437	0	0	0	0	814
Exiting Leg				416				308				90	814
Total				793				745				90	1628

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	0	3	0	3	4	0	0	4	0	0	0	0	7	
4:15 PM	0	4	0	4	3	0	0	3	0	0	0	0	7	
4:30 PM	0	3	0	3	2	0	0	2	0	0	0	0	5	
4:45 PM	0	4	0	4	3	0	0	3	0	0	0	0	7	
Total	0	14	0	14	12	0	0	12	0	0	0	0	26	
5:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3	
5:15 PM	1	6	0	7	4	0	0	4	0	0	0	0	11	
5:30 PM	0	3	0	3	4	0	0	4	0	0	0	0	7	
5:45 PM	0	2	0	2	2	0	0	2	0	0	0	0	4	
Total	1	12	0	13	12	0	0	12	0	0	0	0	25	
Grand Total	1	26	0	27	24	0	0	24	0	0	0	0	51	
Approach %	3.7	96.3	0.0		100.0	0.0	0.0		0.0	0.0	0.0			
Total %	2.0	51.0	0.0	52.9	47.1	0.0	0.0	47.1	0.0	0.0	0.0	0.0		
Exiting Leg Total	24				26								1	51
Large Trucks	1	6	0	7	8	0	0	8	0	0	0	0	15	
% Large Trucks	100.0	23.1	0.0	25.9	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	29.4	
Exiting Leg Total	8				6								1	15
Buses	0	20	0	20	16	0	0	16	0	0	0	0	36	
% Buses	0.0	76.9	0.0	74.1	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	70.6	
Exiting Leg Total	16				20								0	36

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:45 PM	0	4	0	4	3	0	0	3	0	0	0	0	7	
5:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3	
5:15 PM	1	6	0	7	4	0	0	4	0	0	0	0	11	
5:30 PM	0	3	0	3	4	0	0	4	0	0	0	0	7	
Total Volume	1	14	0	15	13	0	0	13	0	0	0	0	28	
% Approach Total	6.7	93.3	0.0		100.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.250	0.583	0.000	0.536	0.813	0.000	0.000	0.813	0.000	0.000	0.000	0.000	0.636	
Large Trucks	1	3	0	4	4	0	0	4	0	0	0	0	8	
Large Trucks %	100.0	21.4	0.0	26.7	30.8	0.0	0.0	30.8	0.0	0.0	0.0	0.0	28.6	
Buses	0	11	0	11	9	0	0	9	0	0	0	0	20	
Buses %	0.0	78.6	0.0	73.3	69.2	0.0	0.0	69.2	0.0	0.0	0.0	0.0	71.4	
Trucks Enter Leg	1	3	0	4	4	0	0	4	0	0	0	0	8	
Bus Enter Leg	0	11	0	11	9	0	0	9	0	0	0	0	20	
Total Entering Leg	1	14	0	15	13	0	0	13	0	0	0	0	28	
Trucks Exiting Leg	4				3								1	8
Buses Exiting Leg	9				11								0	20
Total Exiting Leg	13				14								1	28

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3	
4:15 PM	0	1	0	1	1	0	0	1	0	0	0	0	2	
4:30 PM	0	1	0	1	1	0	0	1	0	0	0	0	2	
4:45 PM	0	2	0	2	1	0	0	1	0	0	0	0	3	
Total	0	5	0	5	5	0	0	5	0	0	0	0	10	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:15 PM	1	0	0	1	1	0	0	1	0	0	0	0	2	
5:30 PM	0	1	0	1	2	0	0	2	0	0	0	0	3	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1	1	0	2	3	0	0	3	0	0	0	0	5	
Grand Total	1	6	0	7	8	0	0	8	0	0	0	0	15	
Approach %	14.3	85.7	0.0		100.0	0.0	0.0		0.0	0.0	0.0			
Total %	6.7	40.0	0.0	46.7	53.3	0.0	0.0	53.3	0.0	0.0	0.0	0.0		
Exiting Leg Total				8				6					1	15

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
4:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3	
4:15 PM	0	1	0	1	1	0	0	1	0	0	0	0	2	
4:30 PM	0	1	0	1	1	0	0	1	0	0	0	0	2	
4:45 PM	0	2	0	2	1	0	0	1	0	0	0	0	3	
Total Volume	0	5	0	5	5	0	0	5	0	0	0	0	10	
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.625	0.000	0.625	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.833	
Entering Leg	0	5	0	5	5	0	0	5	0	0	0	0	10	
Exiting Leg				5				5					0	10
Total				10				10					0	20

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
4:00 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
4:15 PM	0	3	0	3	2	0	0	2	0	0	0	0	5
4:30 PM	0	2	0	2	1	0	0	1	0	0	0	0	3
4:45 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
Total	0	9	0	9	7	0	0	7	0	0	0	0	16
5:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
5:15 PM	0	6	0	6	3	0	0	3	0	0	0	0	9
5:30 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
5:45 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
Total	0	11	0	11	9	0	0	9	0	0	0	0	20
Grand Total	0	20	0	20	16	0	0	16	0	0	0	0	36
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	55.6	0.0	55.6	44.4	0.0	0.0	44.4	0.0	0.0	0.0	0.0	
Exiting Leg Total				16				20					36

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
4:00 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
4:15 PM	0	3	0	3	2	0	0	2	0	0	0	0	5
4:30 PM	0	2	0	2	1	0	0	1	0	0	0	0	3
4:45 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
Total Volume	0	9	0	9	7	0	0	7	0	0	0	0	16
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.750	0.000	0.750	0.875	0.000	0.000	0.875	0.000	0.000	0.000	0.000	0.800
Entering Leg	0	9	0	9	7	0	0	7	0	0	0	0	16
Exiting Leg				7				9					16
Total				16				16					32

PDI File #: **175971 K**
 Location: **N: College Avenue S: College Avenue**
 Location: **W: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	College Avenue						College Avenue						Winter Street						Total			
	from North						from South						from West									
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total				
4:00 PM	0	0	0	0	0	0	3	0	0	0	1	4	0	0	0	1	0	1	5			
4:15 PM	0	3	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	5			
4:30 PM	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	1	1	7			
4:45 PM	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2			
Total	0	9	0	0	0	9	7	0	0	0	1	8	0	0	0	1	1	2	19			
5:00 PM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2			
5:15 PM	0	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0	3			
5:30 PM	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	3			
5:45 PM	0	2	0	0	0	2	6	0	0	0	0	6	1	0	0	0	0	1	9			
Total	0	3	0	0	0	3	12	1	0	0	0	13	1	0	0	0	0	1	17			
Grand Total	0	12	0	0	0	12	19	1	0	0	1	21	1	0	0	1	1	3	36			
Approach %	0.0	100.0	0.0	0.0	0.0		90.5	4.8	0.0	0.0	4.8		33.3	0.0	0.0	33.3	33.3					
Total %	0.0	33.3	0.0	0.0	0.0	33.3	52.8	2.8	0.0	0.0	2.8	58.3	2.8	0.0	0.0	2.8	2.8	8.3				
Exiting Leg Total							19							14							3	36

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	College Avenue						College Avenue						Winter Street						Total			
	from North						from South						from West									
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total				
4:00 PM	0	0	0	0	0	0	3	0	0	0	1	4	0	0	0	1	0	1	5			
4:15 PM	0	3	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	5			
4:30 PM	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	1	1	7			
4:45 PM	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2			
Total Volume	0	9	0	0	0	9	7	0	0	0	1	8	0	0	0	1	1	2	19			
% Approach Total	0.0	100.0	0.0	0.0	0.0		87.5	0.0	0.0	0.0	12.5		0.0	0.0	0.0	50.0	50.0					
PHF	0.000	0.375	0.000	0.000	0.000	0.375	0.583	0.000	0.000	0.000	0.250	0.500	0.000	0.000	0.000	0.250	0.250	0.500	0.679			
Entering Leg	0	9	0	0	0	9	7	0	0	0	1	8	0	0	0	1	1	2	19			
Exiting Leg							7							10							19	
Total							16							18							4	38

PDI File #: **175971 K**
 Location: **N: College Avenue S: College Avenue**
 Location: **W: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	College Avenue						College Avenue						Winter Street						Total			
	from North						from South						from West									
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total				
4:00 PM	0	0	0	2	0	2	0	0	0	32	56	88	0	0	0	22	27	49	139			
4:15 PM	0	0	0	0	0	0	0	0	0	26	24	50	0	0	0	12	12	24	74			
4:30 PM	0	0	0	1	0	1	0	0	0	15	21	36	0	0	0	17	16	33	70			
4:45 PM	0	0	0	1	0	1	0	0	0	15	31	46	0	0	0	15	18	33	80			
Total	0	0	0	4	0	4	0	0	0	88	132	220	0	0	0	66	73	139	363			
5:00 PM	0	0	0	0	0	0	0	0	0	30	28	58	0	0	0	38	15	53	111			
5:15 PM	0	0	0	1	0	1	0	0	0	34	70	104	0	0	0	36	15	51	156			
5:30 PM	0	0	0	0	0	0	0	0	0	17	32	49	0	0	0	59	25	84	133			
5:45 PM	0	0	0	0	0	0	0	0	0	9	49	58	0	0	0	33	26	59	117			
Total	0	0	0	1	0	1	0	0	0	90	179	269	0	0	0	166	81	247	517			
Grand Total	0	0	0	5	0	5	0	0	0	178	311	489	0	0	0	232	154	386	880			
Approach %	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	36.4	63.6		0.0	0.0	0.0	60.1	39.9					
Total %	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	20.2	35.3	55.6	0.0	0.0	0.0	26.4	17.5	43.9				
Exiting Leg Total							5							489							386	880

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	College Avenue						College Avenue						Winter Street						Total			
	from North						from South						from West									
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total				
5:00 PM	0	0	0	0	0	0	0	0	0	30	28	58	0	0	0	38	15	53	111			
5:15 PM	0	0	0	1	0	1	0	0	0	34	70	104	0	0	0	36	15	51	156			
5:30 PM	0	0	0	0	0	0	0	0	0	17	32	49	0	0	0	59	25	84	133			
5:45 PM	0	0	0	0	0	0	0	0	0	9	49	58	0	0	0	33	26	59	117			
Total Volume	0	0	0	1	0	1	0	0	0	90	179	269	0	0	0	166	81	247	517			
% Approach Total	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	33.5	66.5		0.0	0.0	0.0	67.2	32.8					
PHF	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.662	0.639	0.647	0.000	0.000	0.000	0.703	0.779	0.735	0.829			
Entering Leg	0	0	0	1	0	1	0	0	0	90	179	269	0	0	0	166	81	247	517			
Exiting Leg							1							269							517	
Total							2							538							494	1034

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:00 AM	11	60	0	71	61	3	0	64	0	0	0	0	135
11:15 AM	13	92	0	105	56	1	0	57	0	0	0	0	162
11:30 AM	8	80	0	88	76	2	0	78	0	0	0	0	166
11:45 AM	13	86	0	99	73	7	0	80	0	0	0	0	179
Total	45	318	0	363	266	13	0	279	0	0	0	0	642
12:00 PM	13	78	0	91	68	1	0	69	0	0	0	0	160
12:15 PM	11	81	0	92	63	4	0	67	0	0	0	0	159
12:30 PM	13	73	0	86	70	0	0	70	0	0	0	0	156
12:45 PM	10	78	0	88	68	4	0	72	0	0	0	0	160
Total	47	310	0	357	269	9	0	278	0	0	0	0	635
1:00 PM	12	81	0	93	77	2	0	79	1	0	0	1	173
1:15 PM	15	88	0	103	78	2	0	80	0	0	0	0	183
1:30 PM	15	88	0	103	79	2	0	81	0	0	0	0	184
1:45 PM	8	84	0	92	63	2	0	65	0	0	0	0	157
Total	50	341	0	391	297	8	0	305	1	0	0	1	697
Grand Total	142	969	0	1111	832	30	0	862	1	0	0	1	1974
Approach %	12.8	87.2	0.0		96.5	3.5	0.0		100.0	0.0	0.0		
Total %	7.2	49.1	0.0	56.3	42.1	1.5	0.0	43.7	0.1	0.0	0.0	0.1	
Exiting Leg Total				832				970				172	1974
Cars	139	943	0	1082	810	29	0	839	1	0	0	1	1922
% Cars	97.9	97.3	0.0	97.4	97.4	96.7	0.0	97.3	100.0	0.0	0.0	100.0	97.4
Exiting Leg Total				810				944				168	1922
Heavy Vehicles	3	26	0	29	22	1	0	23	0	0	0	0	52
% Heavy Vehicles	2.1	2.7	0.0	2.6	2.6	3.3	0.0	2.7	0.0	0.0	0.0	0.0	2.6
Exiting Leg Total				22				26				4	52

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
12:45 PM	10	78	0	88	68	4	0	72	0	0	0	0	160
1:00 PM	12	81	0	93	77	2	0	79	1	0	0	1	173
1:15 PM	15	88	0	103	78	2	0	80	0	0	0	0	183
1:30 PM	15	88	0	103	79	2	0	81	0	0	0	0	184
Total Volume	52	335	0	387	302	10	0	312	1	0	0	1	700
% Approach Total	13.4	86.6	0.0		96.8	3.2	0.0		100.0	0.0	0.0		
PHF	0.867	0.952	0.000	0.939	0.956	0.625	0.000	0.963	0.250	0.000	0.000	0.250	0.951
Cars	51	327	0	378	296	9	0	305	1	0	0	1	684
Cars %	98.1	97.6	0.0	97.7	98.0	90.0	0.0	97.8	100.0	0.0	0.0	100.0	97.7
Heavy Vehicles	1	8	0	9	6	1	0	7	0	0	0	0	16
Heavy Vehicles %	1.9	2.4	0.0	2.3	2.0	10.0	0.0	2.2	0.0	0.0	0.0	0.0	2.3
Cars Enter Leg	51	327	0	378	296	9	0	305	1	0	0	1	684
Heavy Enter Leg	1	8	0	9	6	1	0	7	0	0	0	0	16
Total Entering Leg	52	335	0	387	302	10	0	312	1	0	0	1	700
Cars Exiting Leg				296				328				60	684
Heavy Exiting Leg				6				8				2	16
Total Exiting Leg				302				336				62	700

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:00 AM	11	58	0	69	60	3	0	63	0	0	0	0	132
11:15 AM	13	88	0	101	51	1	0	52	0	0	0	0	153
11:30 AM	8	77	0	85	74	2	0	76	0	0	0	0	161
11:45 AM	13	84	0	97	72	7	0	79	0	0	0	0	176
Total	45	307	0	352	257	13	0	270	0	0	0	0	622
12:00 PM	12	78	0	90	65	1	0	66	0	0	0	0	156
12:15 PM	11	77	0	88	62	4	0	66	0	0	0	0	154
12:30 PM	13	72	0	85	70	0	0	70	0	0	0	0	155
12:45 PM	10	76	0	86	68	4	0	72	0	0	0	0	158
Total	46	303	0	349	265	9	0	274	0	0	0	0	623
1:00 PM	12	80	0	92	76	2	0	78	1	0	0	1	171
1:15 PM	15	83	0	98	75	2	0	77	0	0	0	0	175
1:30 PM	14	88	0	102	77	1	0	78	0	0	0	0	180
1:45 PM	7	82	0	89	60	2	0	62	0	0	0	0	151
Total	48	333	0	381	288	7	0	295	1	0	0	1	677
Grand Total	139	943	0	1082	810	29	0	839	1	0	0	1	1922
Approach %	12.8	87.2	0.0		96.5	3.5	0.0		100.0	0.0	0.0		
Total %	7.2	49.1	0.0	56.3	42.1	1.5	0.0	43.7	0.1	0.0	0.0	0.1	
Exiting Leg Total				810				944				168	1922

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:45 PM	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
12:45 PM	10	76	0	86	68	4	0	72	0	0	0	0	158
1:00 PM	12	80	0	92	76	2	0	78	1	0	0	1	171
1:15 PM	15	83	0	98	75	2	0	77	0	0	0	0	175
1:30 PM	14	88	0	102	77	1	0	78	0	0	0	0	180
Total Volume	51	327	0	378	296	9	0	305	1	0	0	1	684
% Approach Total	13.5	86.5	0.0		97.0	3.0	0.0		100.0	0.0	0.0		
PHF	0.850	0.929	0.000	0.926	0.961	0.563	0.000	0.978	0.250	0.000	0.000	0.250	0.950
Entering Leg	51	327	0	378	296	9	0	305	1	0	0	1	684
Exiting Leg				296				328				60	684
Total				674				633				61	1368

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:00 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
11:15 AM	0	4	0	4	5	0	0	5	0	0	0	0	9
11:30 AM	0	3	0	3	2	0	0	2	0	0	0	0	5
11:45 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
Total	0	11	0	11	9	0	0	9	0	0	0	0	20
12:00 PM	1	0	0	1	3	0	0	3	0	0	0	0	4
12:15 PM	0	4	0	4	1	0	0	1	0	0	0	0	5
12:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
12:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	1	7	0	8	4	0	0	4	0	0	0	0	12
1:00 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
1:15 PM	0	5	0	5	3	0	0	3	0	0	0	0	8
1:30 PM	1	0	0	1	2	1	0	3	0	0	0	0	4
1:45 PM	1	2	0	3	3	0	0	3	0	0	0	0	6
Total	2	8	0	10	9	1	0	10	0	0	0	0	20
Grand Total	3	26	0	29	22	1	0	23	0	0	0	0	52
Approach %	10.3	89.7	0.0		95.7	4.3	0.0		0.0	0.0	0.0		
Total %	5.8	50.0	0.0	55.8	42.3	1.9	0.0	44.2	0.0	0.0	0.0	0.0	
Exiting Leg Total	22				26				4				52
Large Trucks	3	12	0	15	11	1	0	12	0	0	0	0	27
% Large Trucks	100.0	46.2	0.0	51.7	50.0	100.0	0.0	52.2	0.0	0.0	0.0	0.0	51.9
Exiting Leg Total	11				12				4				27
Buses	0	14	0	14	11	0	0	11	0	0	0	0	25
% Buses	0.0	53.8	0.0	48.3	50.0	0.0	0.0	47.8	0.0	0.0	0.0	0.0	48.1
Exiting Leg Total	11				14				0				25

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:15 AM	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:15 AM	0	4	0	4	5	0	0	5	0	0	0	0	9
11:30 AM	0	3	0	3	2	0	0	2	0	0	0	0	5
11:45 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
12:00 PM	1	0	0	1	3	0	0	3	0	0	0	0	4
Total Volume	1	9	0	10	11	0	0	11	0	0	0	0	21
% Approach Total	10.0	90.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.250	0.563	0.000	0.625	0.550	0.000	0.000	0.550	0.000	0.000	0.000	0.000	0.583
Large Trucks	1	4	0	5	5	0	0	5	0	0	0	0	10
Large Trucks %	100.0	44.4	0.0	50.0	45.5	0.0	0.0	45.5	0.0	0.0	0.0	0.0	47.6
Buses	0	5	0	5	6	0	0	6	0	0	0	0	11
Buses %	0.0	55.6	0.0	50.0	54.5	0.0	0.0	54.5	0.0	0.0	0.0	0.0	52.4
Trucks Enter Leg	1	4	0	5	5	0	0	5	0	0	0	0	10
Bus Enter Leg	0	5	0	5	6	0	0	6	0	0	0	0	11
Total Entering Leg	1	9	0	10	11	0	0	11	0	0	0	0	21
Trucks Exiting Leg	5				4				1				10
Buses Exiting Leg	6				5				0				11
Total Exiting Leg	11				9				1				21

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	2	0	2	1	0	0	1	0	0	0	0	3	
11:15 AM	0	3	0	3	4	0	0	4	0	0	0	0	7	
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	6	0	6	5	0	0	5	0	0	0	0	11	
12:00 PM	1	0	0	1	1	0	0	1	0	0	0	0	2	
12:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	2	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	1	
Total	1	3	0	4	1	0	0	1	0	0	0	0	5	
1:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1	
1:15 PM	0	1	0	1	2	0	0	2	0	0	0	0	3	
1:30 PM	1	0	0	1	1	1	0	2	0	0	0	0	3	
1:45 PM	1	1	0	2	2	0	0	2	0	0	0	0	4	
Total	2	3	0	5	5	1	0	6	0	0	0	0	11	
Grand Total	3	12	0	15	11	1	0	12	0	0	0	0	27	
Approach %	20.0	80.0	0.0		91.7	8.3	0.0		0.0	0.0	0.0			
Total %	11.1	44.4	0.0	55.6	40.7	3.7	0.0	44.4	0.0	0.0	0.0	0.0		
Exiting Leg Total				11				12					4	27

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				College Avenue				Winter Street				Total
	from North				from South				from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	
11:00 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
11:15 AM	0	3	0	3	4	0	0	4	0	0	0	0	7
11:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	6	0	6	5	0	0	5	0	0	0	0	11
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.500	0.313	0.000	0.000	0.313	0.000	0.000	0.000	0.000	0.393
Entering Leg	0	6	0	6	5	0	0	5	0	0	0	0	11
Exiting Leg				5				6					11
Total				11				11					22

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	0	2
11:30 AM	0	2	0	2	2	0	0	2	0	0	0	0	0	4
11:45 AM	0	2	0	2	1	0	0	1	0	0	0	0	0	3
Total	0	5	0	5	4	0	0	4	0	0	0	0	0	9
12:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	2
12:15 PM	0	2	0	2	1	0	0	1	0	0	0	0	0	3
12:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	4	0	4	3	0	0	3	0	0	0	0	0	7
1:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1:15 PM	0	4	0	4	1	0	0	1	0	0	0	0	0	5
1:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	0	2
Total	0	5	0	5	4	0	0	4	0	0	0	0	0	9
Grand Total	0	14	0	14	11	0	0	11	0	0	0	0	0	25
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0			
Total %	0.0	56.0	0.0	56.0	44.0	0.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				11				14						25

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue				College Avenue				Winter Street				Total	
	from North				from South				from West					
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total		
11:30 AM	0	2	0	2	2	0	0	2	0	0	0	0	0	4
11:45 AM	0	2	0	2	1	0	0	1	0	0	0	0	0	3
12:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	2
12:15 PM	0	2	0	2	1	0	0	1	0	0	0	0	0	3
Total Volume	0	6	0	6	6	0	0	6	0	0	0	0	0	12
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0			
PHF	0.000	0.750	0.000	0.750	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	6	0	6	6	0	0	6	0	0	0	0	0	12
Exiting Leg				6				6					0	12
Total				12				12					0	24

PDI File #: **175971 K**
 Location: **N: College Avenue S: College Avenue**
 Location: **W: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
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Bicycles (on Roadway and Crosswalks)

	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	3
11:15 AM	0	1	0	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	3
11:30 AM	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
11:45 AM	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
Total	2	3	0	0	0	5	4	1	0	0	0	5	0	0	0	0	0	10	
12:00 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
12:15 PM	1	4	0	0	0	5	1	0	0	0	0	1	0	0	0	0	0	6	
12:30 PM	0	7	0	0	0	7	3	0	0	0	0	3	0	0	0	0	0	10	
12:45 PM	0	4	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	5	
Total	1	17	0	0	0	18	5	0	0	0	0	5	0	0	0	0	0	23	
1:00 PM	2	5	0	0	0	7	2	0	0	0	1	3	0	0	0	0	0	10	
1:15 PM	0	2	0	0	0	2	2	1	0	0	0	3	0	0	0	1	0	6	
1:30 PM	0	5	0	0	0	5	3	0	0	0	2	5	0	0	0	0	0	10	
1:45 PM	0	3	0	0	0	3	2	0	0	0	1	3	0	0	0	0	0	6	
Total	2	15	0	0	0	17	9	1	0	0	4	14	0	0	0	1	0	32	
Grand Total	5	35	0	0	0	40	18	2	0	0	4	24	0	0	0	1	0	65	
Approach %	12.5	87.5	0.0	0.0	0.0		75.0	8.3	0.0	0.0	16.7		0.0	0.0	0.0	100.0	0.0		
Total %	7.7	53.8	0.0	0.0	0.0	61.5	27.7	3.1	0.0	0.0	6.2	36.9	0.0	0.0	0.0	1.5	0.0	1.5	
Exiting Leg Total	18						39						8						65

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
1:00 PM	2	5	0	0	0	7	2	0	0	0	1	3	0	0	0	0	0	0	10
1:15 PM	0	2	0	0	0	2	2	1	0	0	0	3	0	0	0	1	0	1	6
1:30 PM	0	5	0	0	0	5	3	0	0	0	2	5	0	0	0	0	0	10	
1:45 PM	0	3	0	0	0	3	2	0	0	0	1	3	0	0	0	0	0	6	
Total Volume	2	15	0	0	0	17	9	1	0	0	4	14	0	0	0	1	0	32	
% Approach Total	11.8	88.2	0.0	0.0	0.0		64.3	7.1	0.0	0.0	28.6		0.0	0.0	0.0	100.0	0.0		
PHF	0.250	0.750	0.000	0.000	0.000	0.607	0.750	0.250	0.000	0.000	0.500	0.700	0.000	0.000	0.000	0.250	0.000	0.250	0.800
Entering Leg	2	15	0	0	0	17	9	1	0	0	4	14	0	0	0	1	0	1	32
Exiting Leg	9						19						4						32
Total	26						33						5						64

PDI File #: 175971 K
 Location: N: College Avenue S: College Avenue
 Location: W: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
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Pedestrians

	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
11:00 AM	0	0	0	1	1	2	0	0	0	22	21	43	0	0	0	22	49	71	116
11:15 AM	0	0	0	0	0	0	0	0	0	16	25	41	0	0	0	9	28	37	78
11:30 AM	0	0	0	0	2	2	0	0	0	29	27	56	0	0	0	12	35	47	105
11:45 AM	0	0	0	1	3	4	0	0	0	25	52	77	0	0	0	22	43	65	146
Total	0	0	0	2	6	8	0	0	0	92	125	217	0	0	0	65	155	220	445
12:00 PM	0	0	0	3	2	5	0	0	0	21	30	51	0	0	0	13	20	33	89
12:15 PM	0	0	0	1	0	1	0	0	0	16	43	59	0	0	0	29	46	75	135
12:30 PM	0	0	0	1	0	1	0	0	0	15	37	52	0	0	0	19	33	52	105
12:45 PM	0	0	0	1	1	2	0	0	0	28	43	71	0	0	0	32	64	96	169
Total	0	0	0	6	3	9	0	0	0	80	153	233	0	0	0	93	163	256	498
1:00 PM	0	0	0	2	0	2	0	0	0	48	38	86	0	0	0	20	36	56	144
1:15 PM	0	0	0	1	0	1	0	0	0	29	26	55	0	0	0	24	26	50	106
1:30 PM	0	0	0	0	0	0	0	0	0	21	23	44	0	0	0	12	26	38	82
1:45 PM	0	0	0	0	1	1	0	0	0	40	30	70	0	0	0	24	32	56	127
Total	0	0	0	3	1	4	0	0	0	138	117	255	0	0	0	80	120	200	459
Grand Total	0	0	0	11	10	21	0	0	0	310	395	705	0	0	0	238	438	676	1402
Approach %	0.0	0.0	0.0	52.4	47.6		0.0	0.0	0.0	44.0	56.0		0.0	0.0	0.0	35.2	64.8		
Total %	0.0	0.0	0.0	0.8	0.7	1.5	0.0	0.0	0.0	22.1	28.2	50.3	0.0	0.0	0.0	17.0	31.2	48.2	
Exiting Leg Total	21						705						676						1402

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	College Avenue						College Avenue						Winter Street						Total
	from North						from South						from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	
12:15 PM	0	0	0	1	0	1	0	0	0	16	43	59	0	0	0	29	46	75	135
12:30 PM	0	0	0	1	0	1	0	0	0	15	37	52	0	0	0	19	33	52	105
12:45 PM	0	0	0	1	1	2	0	0	0	28	43	71	0	0	0	32	64	96	169
1:00 PM	0	0	0	2	0	2	0	0	0	48	38	86	0	0	0	20	36	56	144
Total Volume	0	0	0	5	1	6	0	0	0	107	161	268	0	0	0	100	179	279	553
% Approach Total	0.0	0.0	0.0	83.3	16.7		0.0	0.0	0.0	39.9	60.1		0.0	0.0	0.0	35.8	64.2		
PHF	0.000	0.000	0.000	0.625	0.250	0.750	0.000	0.000	0.000	0.557	0.936	0.779	0.000	0.000	0.000	0.781	0.699	0.727	0.818
Entering Leg	0	0	0	5	1	6	0	0	0	107	161	268	0	0	0	100	179	279	553
Exiting Leg	6						268						279						553
Total	12						536						558						1106

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Cars and Heavy Vehicles (Combined)

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	121	0	1	122	14	4	0	18	0	31	1	32	172
7:15 AM	93	0	0	93	6	1	0	7	0	66	0	66	166
7:30 AM	108	0	2	110	9	0	0	9	0	89	1	90	209
7:45 AM	101	0	1	102	12	0	0	12	0	90	0	90	204
Total	423	0	4	427	41	5	0	46	0	276	2	278	751
8:00 AM	102	0	0	102	10	2	0	12	0	78	0	78	192
8:15 AM	85	0	1	86	20	0	0	20	0	82	0	82	188
8:30 AM	101	0	2	103	11	2	0	13	0	62	0	62	178
8:45 AM	85	0	0	85	10	1	0	11	0	78	1	79	175
Total	373	0	3	376	51	5	0	56	0	300	1	301	733
Grand Total	796	0	7	803	92	10	0	102	0	576	3	579	1484
Approach %	99.1	0.0	0.9		90.2	9.8	0.0		0.0	99.5	0.5		
Total %	53.6	0.0	0.5	54.1	6.2	0.7	0.0	6.9	0.0	38.8	0.2	39.0	
Exiting Leg Total	675				0				809				1484
Cars	765	0	7	772	89	10	0	99	0	538	3	541	1412
% Cars	96.1	0.0	100.0	96.1	96.7	100.0	0.0	97.1	0.0	93.4	100.0	93.4	95.1
Exiting Leg Total	634				0				778				1412
Heavy Vehicles	31	0	0	31	3	0	0	3	0	38	0	38	72
% Heavy Vehicles	3.9	0.0	0.0	3.9	3.3	0.0	0.0	2.9	0.0	6.6	0.0	6.6	4.9
Exiting Leg Total	41				0				31				72

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:30 AM	108	0	2	110	9	0	0	9	0	89	1	90	209
7:45 AM	101	0	1	102	12	0	0	12	0	90	0	90	204
8:00 AM	102	0	0	102	10	2	0	12	0	78	0	78	192
8:15 AM	85	0	1	86	20	0	0	20	0	82	0	82	188
Total Volume	396	0	4	400	51	2	0	53	0	339	1	340	793
% Approach Total	99.0	0.0	1.0		96.2	3.8	0.0		0.0	99.7	0.3		
PHF	0.917	0.000	0.500	0.909	0.638	0.250	0.000	0.663	0.000	0.942	0.250	0.944	0.949
Cars	377	0	4	381	49	2	0	51	0	313	1	314	746
Cars %	95.2	0.0	100.0	95.3	96.1	100.0	0.0	96.2	0.0	92.3	100.0	92.4	94.1
Heavy Vehicles	19	0	0	19	2	0	0	2	0	26	0	26	47
Heavy Vehicles %	4.8	0.0	0.0	4.8	3.9	0.0	0.0	3.8	0.0	7.7	0.0	7.6	5.9
Cars Enter Leg	377	0	4	381	49	2	0	51	0	313	1	314	746
Heavy Enter Leg	19	0	0	19	2	0	0	2	0	26	0	26	47
Total Entering Leg	396	0	4	400	51	2	0	53	0	339	1	340	793
Cars Exiting Leg	366				0				380				746
Heavy Exiting Leg	28				0				19				47
Total Exiting Leg	394				0				399				793

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



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Cars

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	117	0	1	118	14	4	0	18	0	29	1	30	166
7:15 AM	91	0	0	91	6	1	0	7	0	63	0	63	161
7:30 AM	104	0	2	106	9	0	0	9	0	81	1	82	197
7:45 AM	97	0	1	98	11	0	0	11	0	83	0	83	192
Total	409	0	4	413	40	5	0	45	0	256	2	258	716
8:00 AM	96	0	0	96	10	2	0	12	0	71	0	71	179
8:15 AM	80	0	1	81	19	0	0	19	0	78	0	78	178
8:30 AM	99	0	2	101	11	2	0	13	0	58	0	58	172
8:45 AM	81	0	0	81	9	1	0	10	0	75	1	76	167
Total	356	0	3	359	49	5	0	54	0	282	1	283	696
Grand Total	765	0	7	772	89	10	0	99	0	538	3	541	1412
Approach %	99.1	0.0	0.9		89.9	10.1	0.0		0.0	99.4	0.6		
Total %	54.2	0.0	0.5	54.7	6.3	0.7	0.0	7.0	0.0	38.1	0.2	38.3	
Exiting Leg Total				634				0				778	1412

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:30 AM	104	0	2	106	9	0	0	9	0	81	1	82	197
7:45 AM	97	0	1	98	11	0	0	11	0	83	0	83	192
8:00 AM	96	0	0	96	10	2	0	12	0	71	0	71	179
8:15 AM	80	0	1	81	19	0	0	19	0	78	0	78	178
Total Volume	377	0	4	381	49	2	0	51	0	313	1	314	746
% Approach Total	99.0	0.0	1.0		96.1	3.9	0.0		0.0	99.7	0.3		
PHF	0.906	0.000	0.500	0.899	0.645	0.250	0.000	0.671	0.000	0.943	0.250	0.946	0.947
Entering Leg	377	0	4	381	49	2	0	51	0	313	1	314	746
Exiting Leg				366				0				380	746
Total				747				51				694	1492

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



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Heavy Vehicles (Combined-Large Trucks and Buses)

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	4	0	0	4	0	0	0	0	0	2	0	2	6
7:15 AM	2	0	0	2	0	0	0	0	0	3	0	3	5
7:30 AM	4	0	0	4	0	0	0	0	0	8	0	8	12
7:45 AM	4	0	0	4	1	0	0	1	0	7	0	7	12
Total	14	0	0	14	1	0	0	1	0	20	0	20	35
8:00 AM	6	0	0	6	0	0	0	0	0	7	0	7	13
8:15 AM	5	0	0	5	1	0	0	1	0	4	0	4	10
8:30 AM	2	0	0	2	0	0	0	0	0	4	0	4	6
8:45 AM	4	0	0	4	1	0	0	1	0	3	0	3	8
Total	17	0	0	17	2	0	0	2	0	18	0	18	37
Grand Total	31	0	0	31	3	0	0	3	0	38	0	38	72
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	43.1	0.0	0.0	43.1	4.2	0.0	0.0	4.2	0.0	52.8	0.0	52.8	
Exiting Leg Total				41				0				31	72
Large Trucks	11	0	0	11	3	0	0	3	0	19	0	19	33
% Large Trucks	35.5	0.0	0.0	35.5	100.0	0.0	0.0	100.0	0.0	50.0	0.0	50.0	45.8
Exiting Leg Total				22				0				11	33
Buses	20	0	0	20	0	0	0	0	0	19	0	19	39
% Buses	64.5	0.0	0.0	64.5	0.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0	54.2
Exiting Leg Total				19				0				20	39

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:30 AM	4	0	0	4	0	0	0	0	0	8	0	8	12
7:45 AM	4	0	0	4	1	0	0	1	0	7	0	7	12
8:00 AM	6	0	0	6	0	0	0	0	0	7	0	7	13
8:15 AM	5	0	0	5	1	0	0	1	0	4	0	4	10
Total Volume	19	0	0	19	2	0	0	2	0	26	0	26	47
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.792	0.000	0.000	0.792	0.500	0.000	0.000	0.500	0.000	0.813	0.000	0.813	0.904
Large Trucks	6	0	0	6	2	0	0	2	0	15	0	15	23
Large Trucks %	31.6	0.0	0.0	31.6	100.0	0.0	0.0	100.0	0.0	57.7	0.0	57.7	48.9
Buses	13	0	0	13	0	0	0	0	0	11	0	11	24
Buses %	68.4	0.0	0.0	68.4	0.0	0.0	0.0	0.0	0.0	42.3	0.0	42.3	51.1
Trucks Enter Leg	6	0	0	6	2	0	0	2	0	15	0	15	23
Bus Enter Leg	13	0	0	13	0	0	0	0	0	11	0	11	24
Total Entering Leg	19	0	0	19	2	0	0	2	0	26	0	26	47
Trucks Exiting Leg				17				0				6	23
Buses Exiting Leg				11				0				13	24
Total Exiting Leg				28				0				19	47

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Holland Avenue				Winter Street				Holland Avenue				Total	
	from North				from East				from South					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
7:00 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	1
7:15 AM	1	0	0	1	0	0	0	0	0	0	1	0	1	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	4	0	4	4
7:45 AM	0	0	0	0	1	0	0	1	1	0	3	0	3	4
Total	2	0	0	2	1	0	0	1	1	0	8	0	8	11
8:00 AM	2	0	0	2	0	0	0	0	0	0	5	0	5	7
8:15 AM	4	0	0	4	1	0	0	1	1	0	3	0	3	8
8:30 AM	1	0	0	1	0	0	0	0	0	0	2	0	2	3
8:45 AM	2	0	0	2	1	0	0	1	1	0	1	0	1	4
Total	9	0	0	9	2	0	0	2	2	0	11	0	11	22
Grand Total	11	0	0	11	3	0	0	3	3	0	19	0	19	33
Approach %	100.0	0.0	0.0		100.0	0.0	0.0			0.0	100.0	0.0		
Total %	33.3	0.0	0.0	33.3	9.1	0.0	0.0	9.1	9.1	0.0	57.6	0.0	57.6	
Exiting Leg Total				22				0	0				11	33

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total	
	from North				from East				from South					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
7:30 AM	0	0	0	0	0	0	0	0	0	0	4	0	4	4
7:45 AM	0	0	0	0	1	0	0	1	1	0	3	0	3	4
8:00 AM	2	0	0	2	0	0	0	0	0	0	5	0	5	7
8:15 AM	4	0	0	4	1	0	0	1	1	0	3	0	3	8
Total Volume	6	0	0	6	2	0	0	2	2	0	15	0	15	23
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0			0.0	100.0	0.0		
PHF	0.375	0.000	0.000	0.375	0.500	0.000	0.000	0.500	0.500	0.000	0.750	0.000	0.750	0.719
Entering Leg	6	0	0	6	2	0	0	2	2	0	15	0	15	23
Exiting Leg				17				0	0				6	23
Total				23				2	2				21	46

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:00 AM	3	0	0	3	0	0	0	0	0	2	0	2	5
7:15 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
7:30 AM	4	0	0	4	0	0	0	0	0	4	0	4	8
7:45 AM	4	0	0	4	0	0	0	0	0	4	0	4	8
Total	12	0	0	12	0	0	0	0	0	12	0	12	24
8:00 AM	4	0	0	4	0	0	0	0	0	2	0	2	6
8:15 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
8:30 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
8:45 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
Total	8	0	0	8	0	0	0	0	0	7	0	7	15
Grand Total	20	0	0	20	0	0	0	0	0	19	0	19	39
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	51.3	0.0	0.0	51.3	0.0	0.0	0.0	0.0	0.0	48.7	0.0	48.7	
Exiting Leg Total				19				0				20	39

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
7:15 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
7:30 AM	4	0	0	4	0	0	0	0	0	4	0	4	8
7:45 AM	4	0	0	4	0	0	0	0	0	4	0	4	8
8:00 AM	4	0	0	4	0	0	0	0	0	2	0	2	6
Total Volume	13	0	0	13	0	0	0	0	0	12	0	12	25
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.813	0.000	0.000	0.813	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.750	0.781
Entering Leg	13	0	0	13	0	0	0	0	0	12	0	12	25
Exiting Leg				12				0				13	25
Total				25				0				25	50

PDI File #: **175971 L**
 Location: **N: Holland Avenue S: Holland Avenue**
 Location: **E: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
7:00 AM	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
7:15 AM	1	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	1	3
7:30 AM	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
7:45 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	14	0	0	0	0	14	0	0	0	1	0	1	0	1	0	0	0	1	16
8:00 AM	5	0	0	0	0	5	2	0	0	0	0	2	0	3	0	0	0	3	10
8:15 AM	3	0	0	0	0	3	0	0	0	0	1	1	0	2	0	0	0	2	6
8:30 AM	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
8:45 AM	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	15	1	0	0	0	16	2	0	0	0	1	3	0	5	0	0	0	5	24
Grand Total	29	1	0	0	0	30	2	0	0	1	1	4	0	6	0	0	0	6	40
Approach %	96.7	3.3	0.0	0.0	0.0		50.0	0.0	0.0	25.0	25.0		0.0	100.0	0.0	0.0	0.0		
Total %	72.5	2.5	0.0	0.0	0.0	75.0	5.0	0.0	0.0	2.5	2.5	10.0	0.0	15.0	0.0	0.0	0.0	15.0	
Exiting Leg Total						8						3						29	40

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
8:00 AM	5	0	0	0	0	5	2	0	0	0	0	2	0	3	0	0	0	3	10
8:15 AM	3	0	0	0	0	3	0	0	0	0	1	1	0	2	0	0	0	2	6
8:30 AM	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
8:45 AM	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Total Volume	15	1	0	0	0	16	2	0	0	0	1	3	0	5	0	0	0	5	24
% Approach Total	93.8	6.3	0.0	0.0	0.0		66.7	0.0	0.0	0.0	33.3		0.0	100.0	0.0	0.0	0.0		
PHF	0.750	0.250	0.000	0.000	0.000	0.800	0.250	0.000	0.000	0.000	0.250	0.375	0.000	0.417	0.000	0.000	0.000	0.417	0.600
Entering Leg	15	1	0	0	0	16	2	0	0	0	1	3	0	5	0	0	0	5	24
Exiting Leg						7						2						15	24
Total						23						5						20	48

PDI File #: **175971 L**
 Location: **N: Holland Avenue S: Holland Avenue**
 Location: **E: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
7:00 AM	0	0	0	7	23	30	0	0	0	4	6	10	0	0	0	1	1	2	42
7:15 AM	0	0	0	4	51	55	0	0	0	6	3	9	0	0	0	0	3	3	67
7:30 AM	0	0	0	8	68	76	0	0	0	7	6	13	0	0	0	1	2	3	92
7:45 AM	0	0	0	9	74	83	0	0	0	10	6	16	0	0	0	2	4	6	105
Total	0	0	0	28	216	244	0	0	0	27	21	48	0	0	0	4	10	14	306
8:00 AM	0	0	0	10	109	119	0	0	0	7	5	12	0	0	0	6	4	10	141
8:15 AM	0	0	0	10	88	98	0	0	0	6	1	7	0	0	0	6	2	8	113
8:30 AM	0	0	0	12	69	81	0	0	0	8	3	11	0	0	0	1	3	4	96
8:45 AM	0	0	0	8	57	65	0	0	0	5	3	8	0	0	0	2	1	3	76
Total	0	0	0	40	323	363	0	0	0	26	12	38	0	0	0	15	10	25	426
Grand Total	0	0	0	68	539	607	0	0	0	53	33	86	0	0	0	19	20	39	732
Approach %	0.0	0.0	0.0	11.2	88.8		0.0	0.0	0.0	61.6	38.4		0.0	0.0	0.0	48.7	51.3		
Total %	0.0	0.0	0.0	9.3	73.6	82.9	0.0	0.0	0.0	7.2	4.5	11.7	0.0	0.0	0.0	2.6	2.7	5.3	
Exiting Leg Total	607						86						39						732

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
7:45 AM	0	0	0	9	74	83	0	0	0	10	6	16	0	0	0	2	4	6	105
8:00 AM	0	0	0	10	109	119	0	0	0	7	5	12	0	0	0	6	4	10	141
8:15 AM	0	0	0	10	88	98	0	0	0	6	1	7	0	0	0	6	2	8	113
8:30 AM	0	0	0	12	69	81	0	0	0	8	3	11	0	0	0	1	3	4	96
Total Volume	0	0	0	41	340	381	0	0	0	31	15	46	0	0	0	15	13	28	455
% Approach Total	0.0	0.0	0.0	10.8	89.2		0.0	0.0	0.0	67.4	32.6		0.0	0.0	0.0	53.6	46.4		
PHF	0.000	0.000	0.000	0.854	0.780	0.800	0.000	0.000	0.000	0.775	0.625	0.719	0.000	0.000	0.000	0.625	0.813	0.700	0.807
Entering Leg	0	0	0	41	340	381	0	0	0	31	15	46	0	0	0	15	13	28	455
Exiting Leg	381						46						28						455
Total	762						92						56						910

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

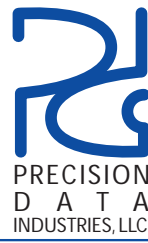
Cars and Heavy Vehicles (Combined)

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	69	0	1	70	19	2	0	21	0	86	1	87	178
4:15 PM	71	0	0	71	16	1	0	17	0	94	0	94	182
4:30 PM	66	0	1	67	17	1	0	18	0	100	0	100	185
4:45 PM	75	0	0	75	25	2	0	27	0	107	0	107	209
Total	281	0	2	283	77	6	0	83	0	387	1	388	754
5:00 PM	79	0	0	79	20	3	0	23	0	97	0	97	199
5:15 PM	66	0	0	66	26	5	0	31	0	88	0	88	185
5:30 PM	86	0	0	86	14	4	0	18	0	91	0	91	195
5:45 PM	86	0	0	86	29	2	0	31	0	108	0	108	225
Total	317	0	0	317	89	14	0	103	0	384	0	384	804
Grand Total	598	0	2	600	166	20	0	186	0	771	1	772	1558
Approach %	99.7	0.0	0.3		89.2	10.8	0.0		0.0	99.9	0.1		
Total %	38.4	0.0	0.1	38.5	10.7	1.3	0.0	11.9	0.0	49.5	0.1	49.6	
Exiting Leg Total				939				0				619	1558
Cars	582	0	2	584	164	20	0	184	0	742	1	743	1511
% Cars	97.3	0.0	100.0	97.3	98.8	100.0	0.0	98.9	0.0	96.2	100.0	96.2	97.0
Exiting Leg Total				908				0				603	1511
Heavy Vehicles	16	0	0	16	2	0	0	2	0	29	0	29	47
% Heavy Vehicles	2.7	0.0	0.0	2.7	1.2	0.0	0.0	1.1	0.0	3.8	0.0	3.8	3.0
Exiting Leg Total				31				0				16	47

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
5:00 PM	79	0	0	79	20	3	0	23	0	97	0	97	199
5:15 PM	66	0	0	66	26	5	0	31	0	88	0	88	185
5:30 PM	86	0	0	86	14	4	0	18	0	91	0	91	195
5:45 PM	86	0	0	86	29	2	0	31	0	108	0	108	225
Total Volume	317	0	0	317	89	14	0	103	0	384	0	384	804
% Approach Total	100.0	0.0	0.0		86.4	13.6	0.0		0.0	100.0	0.0		
PHF	0.922	0.000	0.000	0.922	0.767	0.700	0.000	0.831	0.000	0.889	0.000	0.889	0.893
Cars	309	0	0	309	88	14	0	102	0	369	0	369	780
Cars %	97.5	0.0	0.0	97.5	98.9	100.0	0.0	99.0	0.0	96.1	0.0	96.1	97.0
Heavy Vehicles	8	0	0	8	1	0	0	1	0	15	0	15	24
Heavy Vehicles %	2.5	0.0	0.0	2.5	1.1	0.0	0.0	1.0	0.0	3.9	0.0	3.9	3.0
Cars Enter Leg	309	0	0	309	88	14	0	102	0	369	0	369	780
Heavy Enter Leg	8	0	0	8	1	0	0	1	0	15	0	15	24
Total Entering Leg	317	0	0	317	89	14	0	103	0	384	0	384	804
Cars Exiting Leg				457				0				323	780
Heavy Exiting Leg				16				0				8	24
Total Exiting Leg				473				0				331	804

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	66	0	1	67	19	2	0	21	0	82	1	83	171
4:15 PM	68	0	0	68	16	1	0	17	0	90	0	90	175
4:30 PM	65	0	1	66	17	1	0	18	0	98	0	98	182
4:45 PM	74	0	0	74	24	2	0	26	0	103	0	103	203
Total	273	0	2	275	76	6	0	82	0	373	1	374	731
5:00 PM	77	0	0	77	20	3	0	23	0	92	0	92	192
5:15 PM	63	0	0	63	25	5	0	30	0	84	0	84	177
5:30 PM	84	0	0	84	14	4	0	18	0	88	0	88	190
5:45 PM	85	0	0	85	29	2	0	31	0	105	0	105	221
Total	309	0	0	309	88	14	0	102	0	369	0	369	780
Grand Total	582	0	2	584	164	20	0	184	0	742	1	743	1511
Approach %	99.7	0.0	0.3		89.1	10.9	0.0		0.0	99.9	0.1		
Total %	38.5	0.0	0.1	38.6	10.9	1.3	0.0	12.2	0.0	49.1	0.1	49.2	
Exiting Leg Total				908				0				603	1511

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
5:00 PM	77	0	0	77	20	3	0	23	0	92	0	92	192
5:15 PM	63	0	0	63	25	5	0	30	0	84	0	84	177
5:30 PM	84	0	0	84	14	4	0	18	0	88	0	88	190
5:45 PM	85	0	0	85	29	2	0	31	0	105	0	105	221
Total Volume	309	0	0	309	88	14	0	102	0	369	0	369	780
% Approach Total	100.0	0.0	0.0		86.3	13.7	0.0		0.0	100.0	0.0		
PHF	0.909	0.000	0.000	0.909	0.759	0.700	0.000	0.823	0.000	0.879	0.000	0.879	0.882
Entering Leg	309	0	0	309	88	14	0	102	0	369	0	369	780
Exiting Leg				457				0				323	780
Total				766				102				692	1560

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	3	0	0	3	0	0	0	0	0	4	0	4	7
4:15 PM	3	0	0	3	0	0	0	0	0	4	0	4	7
4:30 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
4:45 PM	1	0	0	1	1	0	0	1	0	4	0	4	6
Total	8	0	0	8	1	0	0	1	0	14	0	14	23
5:00 PM	2	0	0	2	0	0	0	0	0	5	0	5	7
5:15 PM	3	0	0	3	1	0	0	1	0	4	0	4	8
5:30 PM	2	0	0	2	0	0	0	0	0	3	0	3	5
5:45 PM	1	0	0	1	0	0	0	0	0	3	0	3	4
Total	8	0	0	8	1	0	0	1	0	15	0	15	24
Grand Total	16	0	0	16	2	0	0	2	0	29	0	29	47
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	34.0	0.0	0.0	34.0	4.3	0.0	0.0	4.3	0.0	61.7	0.0	61.7	
Exiting Leg Total	31				0				16				47
Large Trucks	1	0	0	1	2	0	0	2	0	9	0	9	12
% Large Trucks	6.3	0.0	0.0	6.3	100.0	0.0	0.0	100.0	0.0	31.0	0.0	31.0	25.5
Exiting Leg Total	11				0				1				12
Buses	15	0	0	15	0	0	0	0	0	20	0	20	35
% Buses	93.8	0.0	0.0	93.8	0.0	0.0	0.0	0.0	0.0	69.0	0.0	69.0	74.5
Exiting Leg Total	20				0				15				35

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:45 PM	1	0	0	1	1	0	0	1	0	4	0	4	6
5:00 PM	2	0	0	2	0	0	0	0	0	5	0	5	7
5:15 PM	3	0	0	3	1	0	0	1	0	4	0	4	8
5:30 PM	2	0	0	2	0	0	0	0	0	3	0	3	5
Total Volume	8	0	0	8	2	0	0	2	0	16	0	16	26
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.667	0.000	0.000	0.667	0.500	0.000	0.000	0.500	0.000	0.800	0.000	0.800	0.813
Large Trucks	1	0	0	1	2	0	0	2	0	5	0	5	8
Large Trucks %	12.5	0.0	0.0	12.5	100.0	0.0	0.0	100.0	0.0	31.3	0.0	31.3	30.8
Buses	7	0	0	7	0	0	0	0	0	11	0	11	18
Buses %	87.5	0.0	0.0	87.5	0.0	0.0	0.0	0.0	0.0	68.8	0.0	68.8	69.2
Trucks Enter Leg	1	0	0	1	2	0	0	2	0	5	0	5	8
Bus Enter Leg	7	0	0	7	0	0	0	0	0	11	0	11	18
Total Entering Leg	8	0	0	8	2	0	0	2	0	16	0	16	26
Trucks Exiting Leg	7				0				1				8
Buses Exiting Leg	11				0				7				18
Total Exiting Leg	18				0				8				26

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Holland Avenue				Winter Street				Holland Avenue				Total	
	from North				from East				from South					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	0	0	1	1	0	2	0	2	3
Total	0	0	0	0	1	0	0	1	1	0	6	0	6	7
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
5:15 PM	1	0	0	1	1	0	0	1	1	0	2	0	2	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	1	0	0	1	1	0	3	0	3	5
Grand Total	1	0	0	1	2	0	0	2	2	0	9	0	9	12
Approach %	100.0	0.0	0.0		100.0	0.0	0.0			0.0	100.0	0.0		
Total %	8.3	0.0	0.0	8.3	16.7	0.0	0.0	16.7		0.0	75.0	0.0	75.0	
Exiting Leg Total	11				0				1				12	

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total	
	from North				from East				from South					
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total		
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	0	0	1	1	0	2	0	2	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	1
5:15 PM	1	0	0	1	1	0	0	1	1	0	2	0	2	4
Total Volume	1	0	0	1	2	0	0	2	2	0	5	0	5	8
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0			0.0	100.0	0.0		
PHF	0.250	0.000	0.000	0.250	0.500	0.000	0.000	0.500		0.000	0.625	0.000	0.625	0.500
Entering Leg	1	0	0	1	2	0	0	2		0	5	0	5	8
Exiting Leg	7				0				1				8	
Total	8				2				6				16	

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Thursday, November 16, 2017
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	3	0	0	3	0	0	0	0	0	2	0	2	5
4:15 PM	3	0	0	3	0	0	0	0	0	2	0	2	5
4:30 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
4:45 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
Total	8	0	0	8	0	0	0	0	0	8	0	8	16
5:00 PM	2	0	0	2	0	0	0	0	0	4	0	4	6
5:15 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
5:30 PM	2	0	0	2	0	0	0	0	0	3	0	3	5
5:45 PM	1	0	0	1	0	0	0	0	0	3	0	3	4
Total	7	0	0	7	0	0	0	0	0	12	0	12	19
Grand Total	15	0	0	15	0	0	0	0	0	20	0	20	35
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	42.9	0.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	57.1	0.0	57.1	
Exiting Leg Total	20				0				15				35

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
4:00 PM	3	0	0	3	0	0	0	0	0	2	0	2	5
4:15 PM	3	0	0	3	0	0	0	0	0	2	0	2	5
4:30 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
4:45 PM	1	0	0	1	0	0	0	0	0	2	0	2	3
Total Volume	8	0	0	8	0	0	0	0	0	8	0	8	16
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.667	0.000	0.000	0.667	0.000	0.000	0.000	0.000	0.000	1.000	0.000	1.000	0.800
Entering Leg	8	0	0	8	0	0	0	0	0	8	0	8	16
Exiting Leg	8				0				8				16
Total	16				0				16				32

PDI File #: **175971 L**
 Location: **N: Holland Avenue S: Holland Avenue**
 Location: **E: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Bicycles (on Roadway and Crosswalks)

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
4:00 PM	2	0	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	3	5
4:15 PM	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
4:30 PM	1	0	0	1	0	2	0	0	0	0	0	0	0	2	0	0	0	2	4
4:45 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	3
Total	8	0	0	1	0	9	0	0	0	0	0	0	0	7	0	0	0	7	16
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	3
5:15 PM	2	0	0	0	0	2	2	0	0	0	2	4	0	5	0	0	0	5	11
5:30 PM	3	0	0	0	0	3	0	0	0	0	0	0	0	6	0	0	0	6	9
5:45 PM	2	0	0	0	0	2	0	0	0	0	2	2	0	9	0	0	0	9	13
Total	7	0	0	0	0	7	2	0	0	0	4	6	0	23	0	0	0	23	36
Grand Total	15	0	0	1	0	16	2	0	0	0	4	6	0	30	0	0	0	30	52
Approach %	93.8	0.0	0.0	6.3	0.0		33.3	0.0	0.0	0.0	66.7		0.0	100.0	0.0	0.0	0.0		
Total %	28.8	0.0	0.0	1.9	0.0	30.8	3.8	0.0	0.0	0.0	7.7	11.5	0.0	57.7	0.0	0.0	0.0	57.7	
Exiting Leg Total	33						4						15						52

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	3
5:15 PM	2	0	0	0	0	2	2	0	0	0	2	4	0	5	0	0	0	5	11
5:30 PM	3	0	0	0	0	3	0	0	0	0	0	0	0	6	0	0	0	6	9
5:45 PM	2	0	0	0	0	2	0	0	0	0	2	2	0	9	0	0	0	9	13
Total Volume	7	0	0	0	0	7	2	0	0	0	4	6	0	23	0	0	0	23	36
% Approach Total	100.0	0.0	0.0	0.0	0.0		33.3	0.0	0.0	0.0	66.7		0.0	100.0	0.0	0.0	0.0		
PHF	0.583	0.000	0.000	0.000	0.000	0.583	0.250	0.000	0.000	0.000	0.500	0.375	0.000	0.639	0.000	0.000	0.000	0.639	0.692
Entering Leg	7	0	0	0	0	7	2	0	0	0	4	6	0	23	0	0	0	23	36
Exiting Leg	25						4						7						36
Total	32						10						30						72

PDI File #: **175971 L**
 Location: **N: Holland Avenue S: Holland Avenue**
 Location: **E: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Thursday, November 16, 2017**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
4:00 PM	0	0	0	18	12	30	0	0	0	15	17	32	0	0	0	4	7	11	73
4:15 PM	0	0	0	25	12	37	0	0	0	12	13	25	0	0	0	5	5	10	72
4:30 PM	0	0	0	36	21	57	0	0	0	10	15	25	0	0	0	3	6	9	91
4:45 PM	0	0	0	29	19	48	0	0	0	8	22	30	0	0	0	2	7	9	87
Total	0	0	0	108	64	172	0	0	0	45	67	112	0	0	0	14	25	39	323
5:00 PM	0	0	0	18	15	33	0	0	0	19	21	40	0	0	0	5	2	7	80
5:15 PM	0	0	0	64	17	81	0	0	0	15	23	38	0	0	0	6	5	11	130
5:30 PM	0	0	0	54	19	73	0	0	0	15	23	38	0	0	0	3	1	4	115
5:45 PM	0	0	0	79	20	99	0	0	0	14	36	50	0	0	0	3	1	4	153
Total	0	0	0	215	71	286	0	0	0	63	103	166	0	0	0	17	9	26	478
Grand Total	0	0	0	323	135	458	0	0	0	108	170	278	0	0	0	31	34	65	801
Approach %	0.0	0.0	0.0	70.5	29.5		0.0	0.0	0.0	38.8	61.2		0.0	0.0	0.0	47.7	52.3		
Total %	0.0	0.0	0.0	40.3	16.9	57.2	0.0	0.0	0.0	13.5	21.2	34.7	0.0	0.0	0.0	3.9	4.2	8.1	
Exiting Leg Total						458						278						65	801

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
5:00 PM	0	0	0	18	15	33	0	0	0	19	21	40	0	0	0	5	2	7	80
5:15 PM	0	0	0	64	17	81	0	0	0	15	23	38	0	0	0	6	5	11	130
5:30 PM	0	0	0	54	19	73	0	0	0	15	23	38	0	0	0	3	1	4	115
5:45 PM	0	0	0	79	20	99	0	0	0	14	36	50	0	0	0	3	1	4	153
Total Volume	0	0	0	215	71	286	0	0	0	63	103	166	0	0	0	17	9	26	478
% Approach Total	0.0	0.0	0.0	75.2	24.8		0.0	0.0	0.0	38.0	62.0		0.0	0.0	0.0	65.4	34.6		
PHF	0.000	0.000	0.000	0.680	0.888	0.722	0.000	0.000	0.000	0.829	0.715	0.830	0.000	0.000	0.000	0.708	0.450	0.591	0.781
Entering Leg	0	0	0	215	71	286	0	0	0	63	103	166	0	0	0	17	9	26	478
Exiting Leg						286						166						26	478
Total						572						332						52	956

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	64	0	0	64	11	0	0	11	0	67	1	68	143
11:15 AM	68	0	0	68	14	2	0	16	0	73	0	73	157
11:30 AM	64	0	0	64	9	0	0	9	0	60	1	61	134
11:45 AM	69	0	0	69	14	5	0	19	0	77	0	77	165
Total	265	0	0	265	48	7	0	55	0	277	2	279	599
12:00 PM	64	0	2	66	14	5	0	19	0	70	0	70	155
12:15 PM	82	0	1	83	13	4	0	17	0	74	0	74	174
12:30 PM	72	0	2	74	13	1	0	14	0	79	0	79	167
12:45 PM	60	0	1	61	15	3	0	18	0	82	1	83	162
Total	278	0	6	284	55	13	0	68	0	305	1	306	658
1:00 PM	57	0	0	57	8	1	0	9	0	79	0	79	145
1:15 PM	73	0	0	73	15	1	0	16	0	74	0	74	163
1:30 PM	72	0	0	72	13	0	0	13	0	74	0	74	159
1:45 PM	77	0	0	77	12	1	0	13	0	88	0	88	178
Total	279	0	0	279	48	3	0	51	0	315	0	315	645
Grand Total	822	0	6	828	151	23	0	174	0	897	3	900	1902
Approach %	99.3	0.0	0.7		86.8	13.2	0.0		0.0	99.7	0.3		
Total %	43.2	0.0	0.3	43.5	7.9	1.2	0.0	9.1	0.0	47.2	0.2	47.3	
Exiting Leg Total				1054				0				848	1902
Cars	794	0	6	800	148	23	0	171	0	862	3	865	1836
% Cars	96.6	0.0	100.0	96.6	98.0	100.0	0.0	98.3	0.0	96.1	100.0	96.1	96.5
Exiting Leg Total				1016				0				820	1836
Heavy Vehicles	28	0	0	28	3	0	0	3	0	35	0	35	66
% Heavy Vehicles	3.4	0.0	0.0	3.4	2.0	0.0	0.0	1.7	0.0	3.9	0.0	3.9	3.5
Exiting Leg Total				38				0				28	66

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:45 AM	69	0	0	69	14	5	0	19	0	77	0	77	165
12:00 PM	64	0	2	66	14	5	0	19	0	70	0	70	155
12:15 PM	82	0	1	83	13	4	0	17	0	74	0	74	174
12:30 PM	72	0	2	74	13	1	0	14	0	79	0	79	167
Total Volume	287	0	5	292	54	15	0	69	0	300	0	300	661
% Approach Total	98.3	0.0	1.7		78.3	21.7	0.0		0.0	100.0	0.0		
PHF	0.875	0.000	0.625	0.880	0.964	0.750	0.000	0.908	0.000	0.949	0.000	0.949	0.950
Cars	275	0	5	280	53	15	0	68	0	289	0	289	637
Cars %	95.8	0.0	100.0	95.9	98.1	100.0	0.0	98.6	0.0	96.3	0.0	96.3	96.4
Heavy Vehicles	12	0	0	12	1	0	0	1	0	11	0	11	24
Heavy Vehicles %	4.2	0.0	0.0	4.1	1.9	0.0	0.0	1.4	0.0	3.7	0.0	3.7	3.6
Cars Enter Leg	275	0	5	280	53	15	0	68	0	289	0	289	637
Heavy Enter Leg	12	0	0	12	1	0	0	1	0	11	0	11	24
Total Entering Leg	287	0	5	292	54	15	0	69	0	300	0	300	661
Cars Exiting Leg				347				0				290	637
Heavy Exiting Leg				12				0				12	24
Total Exiting Leg				359				0				302	661

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Cars

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	60	0	0	60	11	0	0	11	0	63	1	64	135
11:15 AM	66	0	0	66	14	2	0	16	0	71	0	71	153
11:30 AM	62	0	0	62	9	0	0	9	0	58	1	59	130
11:45 AM	68	0	0	68	14	5	0	19	0	75	0	75	162
Total	256	0	0	256	48	7	0	55	0	267	2	269	580
12:00 PM	59	0	2	61	13	5	0	18	0	65	0	65	144
12:15 PM	79	0	1	80	13	4	0	17	0	71	0	71	168
12:30 PM	69	0	2	71	13	1	0	14	0	78	0	78	163
12:45 PM	60	0	1	61	15	3	0	18	0	76	1	77	156
Total	267	0	6	273	54	13	0	67	0	290	1	291	631
1:00 PM	54	0	0	54	8	1	0	9	0	78	0	78	141
1:15 PM	71	0	0	71	15	1	0	16	0	69	0	69	156
1:30 PM	71	0	0	71	12	0	0	12	0	74	0	74	157
1:45 PM	75	0	0	75	11	1	0	12	0	84	0	84	171
Total	271	0	0	271	46	3	0	49	0	305	0	305	625
Grand Total	794	0	6	800	148	23	0	171	0	862	3	865	1836
Approach %	99.3	0.0	0.8		86.5	13.5	0.0		0.0	99.7	0.3		
Total %	43.2	0.0	0.3	43.6	8.1	1.3	0.0	9.3	0.0	46.9	0.2	47.1	
Exiting Leg Total				1016				0				820	1836

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:45 AM	68	0	0	68	14	5	0	19	0	75	0	75	162
12:00 PM	59	0	2	61	13	5	0	18	0	65	0	65	144
12:15 PM	79	0	1	80	13	4	0	17	0	71	0	71	168
12:30 PM	69	0	2	71	13	1	0	14	0	78	0	78	163
Total Volume	275	0	5	280	53	15	0	68	0	289	0	289	637
% Approach Total	98.2	0.0	1.8		77.9	22.1	0.0		0.0	100.0	0.0		
PHF	0.870	0.000	0.625	0.875	0.946	0.750	0.000	0.895	0.000	0.926	0.000	0.926	0.948
Entering Leg	275	0	5	280	53	15	0	68	0	289	0	289	637
Exiting Leg				347				0				290	637
Total				627				68				579	1274

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Heavy Vehicles (Combined-Large Trucks and Buses)

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	4	0	0	4	0	0	0	0	0	4	0	4	8
11:15 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
11:30 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
11:45 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
Total	9	0	0	9	0	0	0	0	0	10	0	10	19
12:00 PM	5	0	0	5	1	0	0	1	0	5	0	5	11
12:15 PM	3	0	0	3	0	0	0	0	0	3	0	3	6
12:30 PM	3	0	0	3	0	0	0	0	0	1	0	1	4
12:45 PM	0	0	0	0	0	0	0	0	0	6	0	6	6
Total	11	0	0	11	1	0	0	1	0	15	0	15	27
1:00 PM	3	0	0	3	0	0	0	0	0	1	0	1	4
1:15 PM	2	0	0	2	0	0	0	0	0	5	0	5	7
1:30 PM	1	0	0	1	1	0	0	1	0	0	0	0	2
1:45 PM	2	0	0	2	1	0	0	1	0	4	0	4	7
Total	8	0	0	8	2	0	0	2	0	10	0	10	20
Grand Total	28	0	0	28	3	0	0	3	0	35	0	35	66
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	42.4	0.0	0.0	42.4	4.5	0.0	0.0	4.5	0.0	53.0	0.0	53.0	
Exiting Leg Total				38				0				28	66
Large Trucks	11	0	0	11	2	0	0	2	0	15	0	15	28
% Large Trucks	39.3	0.0	0.0	39.3	66.7	0.0	0.0	66.7	0.0	42.9	0.0	42.9	42.4
Exiting Leg Total				17				0				11	28
Buses	17	0	0	17	1	0	0	1	0	20	0	20	38
% Buses	60.7	0.0	0.0	60.7	33.3	0.0	0.0	33.3	0.0	57.1	0.0	57.1	57.6
Exiting Leg Total				21				0				17	38

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:00 PM	5	0	0	5	1	0	0	1	0	5	0	5	11
12:15 PM	3	0	0	3	0	0	0	0	0	3	0	3	6
12:30 PM	3	0	0	3	0	0	0	0	0	1	0	1	4
12:45 PM	0	0	0	0	0	0	0	0	0	6	0	6	6
Total Volume	11	0	0	11	1	0	0	1	0	15	0	15	27
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.550	0.000	0.000	0.550	0.250	0.000	0.000	0.250	0.000	0.625	0.000	0.625	0.614
Large Trucks	5	0	0	5	0	0	0	0	0	7	0	7	12
Large Trucks %	45.5	0.0	0.0	45.5	0.0	0.0	0.0	0.0	0.0	46.7	0.0	46.7	44.4
Buses	6	0	0	6	1	0	0	1	0	8	0	8	15
Buses %	54.5	0.0	0.0	54.5	100.0	0.0	0.0	100.0	0.0	53.3	0.0	53.3	55.6
Trucks Enter Leg	5	0	0	5	0	0	0	0	0	7	0	7	12
Bus Enter Leg	6	0	0	6	1	0	0	1	0	8	0	8	15
Total Entering Leg	11	0	0	11	1	0	0	1	0	15	0	15	27
Trucks Exiting Leg				7				0				5	12
Buses Exiting Leg				9				0				6	15
Total Exiting Leg				16				0				11	27

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Large Trucks

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	2	0	0	2	0	0	0	0	0	1	0	1	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	2	0	0	2	0	0	0	0	0	1	0	1	3
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4	0	0	4	0	0	0	0	0	2	0	2	6
12:00 PM	1	0	0	1	0	0	0	0	0	3	0	3	4
12:15 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
12:30 PM	2	0	0	2	0	0	0	0	0	0	0	0	2
12:45 PM	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	5	0	0	5	0	0	0	0	0	7	0	7	12
1:00 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
1:15 PM	0	0	0	0	0	0	0	0	0	3	0	3	3
1:30 PM	1	0	0	1	1	0	0	1	0	0	0	0	2
1:45 PM	0	0	0	0	1	0	0	1	0	3	0	3	4
Total	2	0	0	2	2	0	0	2	0	6	0	6	10
Grand Total	11	0	0	11	2	0	0	2	0	15	0	15	28
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	39.3	0.0	0.0	39.3	7.1	0.0	0.0	7.1	0.0	53.6	0.0	53.6	
Exiting Leg Total				17				0				11	28

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
12:00 PM	1	0	0	1	0	0	0	0	0	3	0	3	4
12:15 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
12:30 PM	2	0	0	2	0	0	0	0	0	0	0	0	2
12:45 PM	0	0	0	0	0	0	0	0	0	2	0	2	2
Total Volume	5	0	0	5	0	0	0	0	0	7	0	7	12
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.583	0.000	0.583	0.750
Entering Leg	5	0	0	5	0	0	0	0	0	7	0	7	12
Exiting Leg				7				0				5	12
Total				12				0				12	24

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Buses

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:00 AM	2	0	0	2	0	0	0	0	0	3	0	3	5
11:15 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
11:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
11:45 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
Total	5	0	0	5	0	0	0	0	0	8	0	8	13
12:00 PM	4	0	0	4	1	0	0	1	0	2	0	2	7
12:15 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
12:30 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
12:45 PM	0	0	0	0	0	0	0	0	0	4	0	4	4
Total	6	0	0	6	1	0	0	1	0	8	0	8	15
1:00 PM	2	0	0	2	0	0	0	0	0	1	0	1	3
1:15 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	2	0	0	2	0	0	0	0	0	1	0	1	3
Total	6	0	0	6	0	0	0	0	0	4	0	4	10
Grand Total	17	0	0	17	1	0	0	1	0	20	0	20	38
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	44.7	0.0	0.0	44.7	2.6	0.0	0.0	2.6	0.0	52.6	0.0	52.6	
Exiting Leg Total				21				0				17	38

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Holland Avenue				Winter Street				Holland Avenue				Total
	from North				from East				from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	
11:15 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
11:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
11:45 AM	1	0	0	1	0	0	0	0	0	2	0	2	3
12:00 PM	4	0	0	4	1	0	0	1	0	2	0	2	7
Total Volume	7	0	0	7	1	0	0	1	0	7	0	7	15
% Approach Total	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.438	0.000	0.000	0.438	0.250	0.000	0.000	0.250	0.000	0.875	0.000	0.875	0.536
Entering Leg	7	0	0	7	1	0	0	1	0	7	0	7	15
Exiting Leg				8				0				7	15
Total				15				1				14	30

PDI File #: 175971 L
 Location: N: Holland Avenue S: Holland Avenue
 Location: E: Winter Street
 City, State: Somerville, MA
 Client: Toole/ H. Georgallas
 Site Code: TBA
 Count Date: Saturday, November 18, 2017
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
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Bicycles (on Roadway and Crosswalks)

	Holland Avenue						Winter Street						Holland Avenue						Total			
	from North						from East						from South									
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total				
11:00 AM	3	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	4			
11:15 AM	2	0	0	0	0	2	1	0	0	0	0	1	0	2	0	0	0	2	5			
11:30 AM	2	0	0	0	0	2	1	0	0	0	0	1	0	1	0	0	0	1	4			
11:45 AM	8	0	0	0	0	8	1	2	0	0	0	3	0	2	0	0	0	2	13			
Total	15	0	0	0	0	15	3	2	0	0	0	5	0	6	0	0	0	6	26			
12:00 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	4			
12:15 PM	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4			
12:30 PM	3	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	4			
12:45 PM	4	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	4	8			
Total	12	0	0	0	0	12	0	0	0	0	0	0	0	8	0	0	0	8	20			
1:00 PM	1	0	0	1	0	2	0	0	0	0	0	0	0	3	0	0	0	3	5			
1:15 PM	5	0	0	0	0	5	1	0	0	0	0	1	0	6	0	0	0	6	12			
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1			
1:45 PM	8	0	0	0	0	8	0	0	0	0	0	0	0	3	0	0	0	3	11			
Total	14	0	0	1	0	15	1	0	0	0	0	1	0	13	0	0	0	13	29			
Grand Total	41	0	0	1	0	42	4	2	0	0	0	6	0	27	0	0	0	27	75			
Approach %	97.6	0.0	0.0	2.4	0.0		66.7	33.3	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0					
Total %	54.7	0.0	0.0	1.3	0.0	56.0	5.3	2.7	0.0	0.0	0.0	8.0	0.0	36.0	0.0	0.0	0.0	36.0				
Exiting Leg Total							32							0							43	75

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Holland Avenue						Winter Street						Holland Avenue						Total			
	from North						from East						from South									
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total				
12:30 PM	3	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	4			
12:45 PM	4	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	4	8			
1:00 PM	1	0	0	1	0	2	0	0	0	0	0	0	0	3	0	0	0	3	5			
1:15 PM	5	0	0	0	0	5	1	0	0	0	0	1	0	6	0	0	0	6	12			
Total Volume	13	0	0	1	0	14	1	0	0	0	0	1	0	14	0	0	0	14	29			
% Approach Total	92.9	0.0	0.0	7.1	0.0		100.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0					
PHF	0.650	0.000	0.000	0.250	0.000	0.700	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.583	0.000	0.000	0.000	0.583	0.604			
Entering Leg	13	0	0	1	0	14	1	0	0	0	0	1	0	14	0	0	0	14	29			
Exiting Leg							16							0							13	29
Total							30							1							27	58

PDI File #: **175971 L**
 Location: **N: Holland Avenue S: Holland Avenue**
 Location: **E: Winter Street**
 City, State: **Somerville, MA**
 Client: **Toole/ H. Georgallas**
 Site Code: **TBA**
 Count Date: **Saturday, November 18, 2017**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



46 Morton Street, Framingham, MA 01702
 Office: 508-875-0100 Fax: 508-875-0118
 Email: datarequests@pdillc.com

Pedestrians

	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
11:00 AM	0	0	0	10	27	37	0	0	0	15	12	27	0	0	0	5	1	6	70
11:15 AM	0	0	0	10	27	37	0	0	0	21	13	34	0	0	0	3	3	6	77
11:30 AM	0	0	0	9	16	25	0	0	0	24	26	50	0	0	0	4	5	9	84
11:45 AM	0	0	0	7	25	32	0	0	0	27	37	64	0	0	0	9	2	11	107
Total	0	0	0	36	95	131	0	0	0	87	88	175	0	0	0	21	11	32	338
12:00 PM	0	0	0	11	16	27	0	0	0	44	30	74	0	0	0	3	7	10	111
12:15 PM	0	0	0	11	25	36	0	0	0	33	41	74	0	0	0	3	10	13	123
12:30 PM	0	0	0	12	30	42	0	0	0	41	30	71	0	0	0	2	5	7	120
12:45 PM	0	0	0	22	36	58	0	0	0	40	34	74	0	0	0	4	6	10	142
Total	0	0	0	56	107	163	0	0	0	158	135	293	0	0	0	12	28	40	496
1:00 PM	0	0	0	19	22	41	0	0	0	31	40	71	0	0	0	1	3	4	116
1:15 PM	0	0	0	11	32	43	0	0	0	34	25	59	0	0	0	3	6	9	111
1:30 PM	0	0	0	19	22	41	0	0	0	20	41	61	0	0	0	4	6	10	112
1:45 PM	0	0	0	26	24	50	0	0	0	38	39	77	0	0	0	4	11	15	142
Total	0	0	0	75	100	175	0	0	0	123	145	268	0	0	0	12	26	38	481
Grand Total	0	0	0	167	302	469	0	0	0	368	368	736	0	0	0	45	65	110	1315
Approach %	0.0	0.0	0.0	35.6	64.4		0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	40.9	59.1		
Total %	0.0	0.0	0.0	12.7	23.0	35.7	0.0	0.0	0.0	28.0	28.0	56.0	0.0	0.0	0.0	3.4	4.9	8.4	
Exiting Leg Total	469						736						110						1315

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	Holland Avenue						Winter Street						Holland Avenue						Total
	from North						from East						from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	
12:15 PM	0	0	0	11	25	36	0	0	0	33	41	74	0	0	0	3	10	13	123
12:30 PM	0	0	0	12	30	42	0	0	0	41	30	71	0	0	0	2	5	7	120
12:45 PM	0	0	0	22	36	58	0	0	0	40	34	74	0	0	0	4	6	10	142
1:00 PM	0	0	0	19	22	41	0	0	0	31	40	71	0	0	0	1	3	4	116
Total Volume	0	0	0	64	113	177	0	0	0	145	145	290	0	0	0	10	24	34	501
% Approach Total	0.0	0.0	0.0	36.2	63.8		0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	29.4	70.6		
PHF	0.000	0.000	0.000	0.727	0.785	0.763	0.000	0.000	0.000	0.884	0.884	0.980	0.000	0.000	0.000	0.625	0.600	0.654	0.882
Entering Leg	0	0	0	64	113	177	0	0	0	145	145	290	0	0	0	10	24	34	501
Exiting Leg	177						290						34						501
Total	354						580						68						1002

APPENDIX B – SAFETY ANALYSIS

Crash Number	City Town Name	Crash Date	Crash Severity	Crash Time	Light Conditions	Manner of Collision	Non-Motorist Type (All Persons)	Road Surface Condition	Vehicle Actions Prior to Crash (All Vehicles)	Vehicle Configuration (All Vehicles)	Vehicle Travel Directions (All Vehicles)	Weather Conditions	Latitude	Longitude
4666609	SOMERVILLE	01/26/2019	Property damage only (none injured)	11:53 AM	Daylight	Rear-end		Dry	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Passenger car) / V2:(Passenger car)	V1: S / V2: S	Clear	42.39479	-71.12137
Data Level:	CRASH													
Query Type:	Spatial													
Criteria:	If you conducted an Advanced Query your SQL statement will be listed here													

Crash Number	City Town Name	Crash Date	Crash Severity	Crash Time	Light Conditions	Manner of Collision	Non-Motorist Type (All Persons)	Road Surface Condition	Vehicle Actions Prior to Crash (All Vehicles)	Vehicle Configuration (All Vehicles)	Vehicle Travel Directions (All Vehicles)	Weather Conditions	Latitude	Longitude
4373479	SOMERVILLE	04/10/2017	Property damage only (none injured)	1:14 PM	Daylight	Sideswipe, same direction		Dry	V1: Changing lanes / V2: Travelling straight ahead	V1:(Passenger car) / V2:(Passenger car)	V1: E / V2: E	Clear	42.39546	-71.12193
4598123	SOMERVILLE	07/23/2018	Non-fatal injury	12:03 PM	Daylight	Rear-end		Wet	V1: Parked / V2: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility)) / V2:(Light truck(van, mini-van, pickup, sport utility))	V1: E / V2: E	Cloudy	42.39526	-71.12181
4667125	SOMERVILLE	01/04/2019	Non-fatal injury	11:09 AM	Daylight	Head-on	P1: Pedestrian	Dry	V1: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility))	V1: E	Clear/Clear	42.39552	-71.12197
4693707	SOMERVILLE	02/06/2019	Property damage only (none injured)	5:41 PM	Dark - lighted roadway	Rear-end		Dry	V1: Travelling straight ahead / V2: Slowing or stopped in traffic	V1:(Passenger car) / V2:(Passenger car)	V1: E / V2: E	Clear/Clear	42.39526	-71.12181
4751713	SOMERVILLE	08/12/2019	Non-fatal injury	2:20 PM	Daylight	Angle		Dry	V2: Travelling straight ahead / V1: Turning right	V2:(Passenger car) / V1:(Single-unit truck (3-or-more axles))	V2: E / V1: E	Clear	42.39533	-71.12186
4808708	SOMERVILLE	12/13/2019	Property damage only (none injured)	10:24 AM	Daylight	Angle		Dry	V2: Travelling straight ahead / V1: Turning right	V2:(Passenger car) / V1:(Single-unit truck (2-axle, 6-tires))	V2: E / V1: E	Clear/Clear	42.39526	-71.12181
Data Level:	CRASH													
Query Type:	Spatial													
Criteria:	If you conducted an Advanced Query your SQL statement will be listed here													

Crash Number	City Town Name	Crash Date	Crash Severity	Crash Time	Light Conditions	Manner of Collision	Non-Motorist Type (All Persons)	Road Surface Condition	Vehicle Actions Prior to Crash (All Vehicles)	Vehicle Configuration (All Vehicles)	Vehicle Travel Directions (All Vehicles)	Weather Conditions	Latitude	Longitude
4418003	SOMERVILLE	07/27/2017	Property damage only (none injured)	10:20 AM	Daylight	Sideswipe, same direction		Dry	V1: Turning left / V2: Turning left	V1:(Truck/trailer) / V2:(Passenger car)	V1: W / V2: W	Cloudy	42.3957	-71.12048
4497960	SOMERVILLE	10/30/2017	Property damage only (none injured)	6:50 AM	Daylight	Rear-end		Wet	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility)) / V2:(Passenger car)	V1: W / V2: W	Rain/Cloudy	42.3957	-71.12048
4509621	SOMERVILLE	01/26/2018	Property damage only (none injured)	9:31 AM	Daylight	Angle		Dry	V1: Travelling straight ahead / V2: Turning left	V1:(Light truck(van, mini-van, pickup, sport utility)) / V2:(Passenger car)	V1: Not Reported / V2: Not Reported	Clear	42.39577	-71.12064
4646072	SOMERVILLE	11/30/2018	Not Reported	9:07 PM	Dark - lighted roadway	Angle		Dry	V1: Travelling straight ahead / V2: Slowing or stopped in traffic	V1:(Unknown heavy truck, cannot classify) / V2:(Light truck(van, mini-van, pickup, sport utility))	V1: W / V2: W	Clear	42.39576	-71.12063
4666610	SOMERVILLE	01/28/2019	Non-fatal injury	12:48 AM	Dark - lighted roadway	Sideswipe, same direction		Dry	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Passenger car) / V2:(Passenger car)	V1: W / V2: N	Clear/Clear	42.39569	-71.12047
4693700	SOMERVILLE	02/01/2019	Non-fatal injury	8:30 PM	Dark - lighted roadway	Rear-end		Dry	V1: Travelling straight ahead / V2: Turning left	V1:(Passenger car) / V2:(Passenger car)	V1: W / V2: W	Clear/Clear	42.39569	-71.12047
4693706	SOMERVILLE	02/06/2019	Non-fatal injury	4:04 PM	Daylight	Angle	P2: Cyclist	Dry	V1: Travelling straight ahead	V1:(Passenger car)	V1: W	Cloudy	42.39569	-71.12047
4693828	SOMERVILLE	03/11/2019	Property damage only (none injured)	9:46 AM	Daylight	Sideswipe, same direction		Snow	V1: Backing / V2: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility)) / V2:(Light truck(van, mini-van, pickup, sport utility))	V1: E / V2: N	Clear/Clear	42.39569	-71.12047
4763759	SOMERVILLE	09/13/2019	Non-fatal injury	5:38 PM	Daylight	Single vehicle crash	P2: Pedestrian	Dry	V1: Travelling straight ahead	V1:(Passenger car)	V1: W	Clear	42.39569	-71.12047
Data Level:	CRASH													
Query Type:	Spatial													
Criteria:	If you conducted an Advanced Query your SQL statement will be listed here													

Crash Number	City Town Name	Crash Date	Crash Severity	Crash Time	Light Conditions	Manner of Collision	Non-Motorist Type (All Persons)	Road Surface Condition	Vehicle Actions Prior to Crash (All Vehicles)	Vehicle Configuration (All Vehicles)	Vehicle Travel Directions (All Vehicles)	Weather Conditions	Latitude	Longitude
4343460	SOMERVILLE	01/15/2017	Property damage only (none injured)	12:34 AM	Dark - lighted roadway	Angle		Dry	V1: Travelling straight ahead / V2: Turning left	V1:(Passenger car) / V2:(Passenger car)	V1: Not Reported / V2: Not Reported	Clear	42.39651	-71.12255
4357886	SOMERVILLE	03/21/2017	Property damage only (none injured)	10:25 AM	Daylight	Sideswipe, same direction		Dry	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Passenger car) / V2:(Truck/trailer)	V1: Not Reported / V2: Not Reported	Clear/Clear	42.39636	-71.12247
4424228	SOMERVILLE	08/02/2017	Property damage only (none injured)	10:17 AM	Daylight	Single vehicle crash		Dry	V1: Turning right	V1:(Single-unit truck (2-axle, 6-tires))	V1: E	Clear/Clear	42.39651	-71.12255
4424239	SOMERVILLE	08/06/2017	Property damage only (none injured)	12:00 PM	Daylight	Sideswipe, same direction		Dry	V1: Turning right / V2: Turning right	V1:(Passenger car) / V2:(Single-unit truck (2-axle, 6-tires))	V1: Not Reported / V2: Not Reported	Clear	42.39648	-71.12231
4456247	SOMERVILLE	09/23/2017	Property damage only (none injured)	3:45 PM	Daylight	Head-on		Dry	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Passenger car) / V2:(Passenger car)	V1: Not Reported / V2: Not Reported	Clear	42.39648	-71.12231
4536931	SOMERVILLE	03/26/2018	Property damage only (none injured)	9:25 AM	Daylight	Sideswipe, same direction		Dry	V1: Turning left / V2: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility)) / V2:(Light truck(van, mini-van, pickup, sport utility))	V1: E / V2: E	Clear	42.39611	-71.12231
4645648	SOMERVILLE	10/05/2018	Non-fatal injury	11:53 AM	Daylight	Single vehicle crash	P2: Pedestrian	Dry	V1: Slowing or stopped in traffic	V1:(Light truck(van, mini-van, pickup, sport utility))	V1: E	Clear	42.39659	-71.1226
4645738	SOMERVILLE	11/27/2018	Property damage only (none injured)	8:16 AM	Daylight	Angle		Wet	V1: Parked / V2: Entering traffic lane	V1:(Light truck(van, mini-van, pickup, sport utility)) / V2:(Bus (seats for 16 or more, including driver))	V1: Not Reported / V2: W	Rain/Rain	42.39623	-71.12238
4666602	SOMERVILLE	01/22/2019	Non-fatal injury	11:12 AM	Daylight	Single vehicle crash	P2: Pedestrian	Snow	V1: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility))	V1: E	Clear/Clear	42.39659	-71.1226
4702104	SOMERVILLE	04/01/2019	Non-fatal injury	3:10 PM	Daylight	Angle	P5: Other	Dry	V1: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility))	V1: S	Clear	42.39652	-71.12255
4726430	SOMERVILLE	06/04/2019	Non-fatal injury	12:59 PM	Daylight	Sideswipe, opposite direction	P2: Cyclist		V1: Travelling straight ahead	V1:(Passenger car)	V1: S	Clear	42.39623	-71.12238
4763805	SOMERVILLE	09/15/2019	Property damage only (none injured)	2:47 PM	Daylight	Sideswipe, same direction		Dry	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Passenger car) / V2:(Passenger car)	V1: S / V2: S	Clear	42.39636	-71.12246
4763808	SOMERVILLE	09/13/2019	Property damage only (none injured)	3:44 PM	Daylight	Head-on		Dry	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Light truck(van, mini-van, pickup, sport utility)) / V2:(Passenger car)	V1: S / V2: E	Clear	42.39636	-71.12246

4778342	SOMERVILLE	10/14/2019	Property damage only (none injured)	12:40 PM	Daylight	Sideswipe, same direction		Dry	V1: Travelling straight ahead / V2: Travelling straight ahead	V1:(Passenger car) / V2:(Passenger car)	V1: W / V2: W	Clear	42.3962	-71.12224
Data Level:	CRASH													
Query Type:	Spatial													
Criteria:	If you conducted an Advanced Query your SQL statement will be listed here													

APPENDIX C – PUBLIC TRANSIT

APPENDIX C.2 – MBTA BUS ROUTES

Schedule Change

77

Effective December 20, 2020

Arlington Heights- Harvard Station

Serving

- Porter Station
- Arlington High School
- Arlington Center
- Harvard University
- Eliot Street
- Red Line
- Fitchburg Commuter Rail



Massachusetts Bay Transportation Authority *massDOT*
Massachusetts Department of Transportation

Information 617-222-3200 • 1-800-392-6100
(TTY) 617-222-5146 • www.mbta.com

Route 77 Arlington Heights - Harvard Station

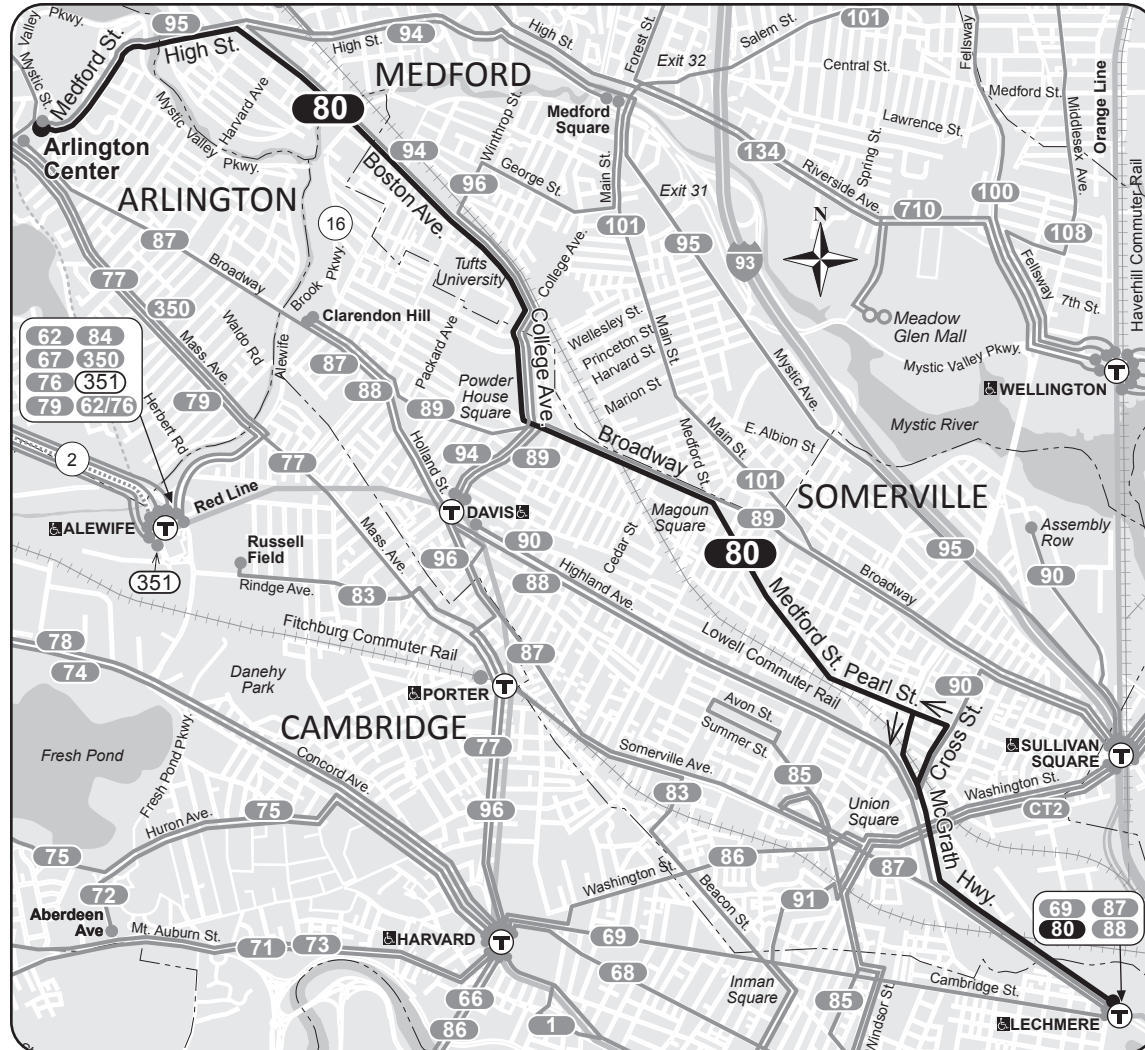
Fare	Local Bus	Bus + Bus	Subway	Bus + Subway
CharlieCard	\$1.70	\$1.70	\$2.40	\$2.40
CharlieTicket	\$1.70	\$1.70	\$2.40	\$4.10*
Cash-on-Board	\$1.70	\$3.40	\$2.40	\$4.10
Student/Youth**	\$0.85	\$0.85	\$1.10	\$1.10
Senior/TAP***	\$0.85	\$0.85	\$1.10	\$1.10

FREE FARES: Children 11 and under ride free when accompanied by a paying customer; Blind Access CharlieCard holders ride free and if using a guide, the guide rides free.
 * Transfers Subway to Silver Line SL4 or SL5 pay \$2.40
 ** Requires Student CharlieCard or Youth CharlieCard. Student CharlieCards available to students through participating middle and high schools. Youth CharlieCards available through community partners across Greater Boston.
 *** Requires Senior/TAP CharlieCard, available to Medicare cardholders, seniors 65+, and persons with disabilities.

Winter 2021 Holidays
 12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

77 Weekday				77 Saturday				77 Sunday													
Inbound		Outbound		Inbound		Outbound		Inbound		Outbound											
Leave Arlington Heights	Arrive Arlington Center	Lv/Arrive North Camb.	Arrive Harvard Square	Leave Harvard Station	Arrive North Camb.	Arrive Arlington Center	Arrive Arlington Heights	Leave Arlington Heights	Arrive North Camb.	Arrive Arlington Center	Arrive Arlington Heights	Leave Harvard Station	Arrive Harvard Square	Leave Harvard Station	Arrive Arlington Center	Arrive Arlington Heights					
.....	4:37A	4:47A	5:11A	5:19A	5:25A	5:31A	.....	.....	4:34A	4:43A	5:12A	5:20A	5:26A	5:32A	6:00A	6:05A	6:21A	6:25A	6:39A	6:45A
.....	4:50A	5:07	5:26	5:34	5:40	5:46	.....	.....	4:44	4:53	5:27	5:35	5:41	5:47	6:18	6:23	6:39	6:44	6:58	7:04
4:45A	4:50A	4:58	5:08	5:41	5:49	5:55	6:01	.....	.....	4:54	5:03	5:42	5:50	5:56	6:02	6:36	6:41	6:57	7:04	7:18	7:24
.....	5:05	5:15	5:53	6:01	6:07	6:13	4:48A	4:53A	5:00	5:09	5:57	6:05	6:11	6:17	6:54	6:59	7:15	7:24	7:38	7:44
5:00	5:05	5:13	5:23	6:05	6:13	6:19	6:25	.....	.....	5:04	5:13	6:10	6:18	6:24	6:30	7:12	7:17	7:34	7:44	7:58	8:05
5:12	5:17	5:25	5:35	6:17	6:25	6:31	6:37	5:03	5:08	5:15	5:24	6:23	6:31	6:37	6:43	7:30	7:36	7:57	8:04	8:23	8:30
.....	5:25	5:35	6:29	6:37	6:43	6:49	5:17	5:22	5:29	5:38	6:36	6:44	6:50	6:56	7:50	7:56	8:17	8:24	8:43	8:50
.....	5:32	5:42	6:41	6:49	6:55	7:05	5:30	5:35	5:42	5:51	6:49	6:57	7:03	7:09	8:10	8:16	8:37	8:44	9:03	9:11
5:23	5:28	5:36	5:46	6:53	7:02	7:17	7:31	5:43	5:48	5:55	6:04	7:02	7:10	7:16	7:22	8:30	8:36	8:57	9:04	9:24	9:32
.....	7:05	7:16	7:31	7:45	5:56	6:02	6:10	6:20	7:15	7:23	7:29	7:36	8:48	8:54	9:15	9:24	9:44	9:52
11:58	12:05P	12:16P	12:32P	.....	.....	.....	.....	6:09	6:15	6:23	6:33	7:28	7:37	7:45	7:52	9:06	9:12	9:35	9:44	10:04	10:12
.....	6:29	6:38	7:43	7:52	8:00	8:07	9:24	9:30	9:54	10:04	10:24	10:32
12:08P	12:15	12:26	12:42	11:18	11:29	11:39	11:49	6:22	6:28	6:36	6:46	7:58	8:07	8:15	8:22	9:42	9:49	10:13	10:19	10:39	10:47
.....	11:28	11:41	11:51	12:01P	.....	.....	6:43	6:52	8:14	8:23	8:32	8:40	9:57	10:04	10:28	10:34	10:54	11:02
3:18	3:25	3:36	3:52	11:38	11:51	12:01P	12:11	6:35	6:41	6:49	6:59	8:30	8:40	8:49	8:57	10:11	10:18	10:42	10:49	11:09	11:17
.....	3:40	3:56	11:48	12:01P	12:11	12:21	6:48	6:54	7:02	7:12	8:45	8:55	9:04	9:12	10:25	10:32	10:56	11:04	11:24	11:32
.....	3:45	4:01	11:58	12:11	12:21	12:31	7:01	7:07	7:15	7:25	.....	.....	.....	.....	10:39	10:46	11:10	11:18	11:39	11:48
3:28	3:35	3:46	4:02	.....	.....	.....	.....	7:14	7:20	7:28	7:39	11:58	12:11P	12:21P	12:31P	10:53	11:00	11:24	11:32	11:54	12:03P
.....	3:55	4:11	.....	.....	.....	.....	7:28	7:34	7:44	7:55	.....	.....	.....	.....	11:08	11:15	11:40	11:46	12:08P	12:17
3:38	3:45	3:56	4:12	12:08P	12:21	12:31	12:41	7:42	7:49	7:59	8:10	12:08P	12:21	12:31	12:41	11:23	11:30	11:55	.....	.....	.....
.....	4:01	4:17	.....	.....	.....	.....	.....	.....	8:02	8:14	.....	.....	.....	.....	11:38	11:45	12:10P	12:18P	12:23	12:32
3:48	3:55	4:06	4:22	.....	.....	.....	.....	7:56	8:03	8:13	8:24	.....	.....	.....	.....	11:53	12:00N	12:25	.....	.....	.....
.....	4:13	4:29	.....	.....	.....	.....	8:11	8:18	8:28	8:39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3:58	4:05	4:16	4:32	8:33	8:45
.....	4:25	4:41	8:26	8:33	8:44	8:55
4:08	4:15	4:26	4:42	8:38	8:45	8:56	9:07
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Route 80 Arlington Center - Lechmere Station



80

Effective December 20, 2020

Arlington Center- Lechmere Station

Serving

- Medford Hillside
- Magoun Square
- Powderhouse Square
- Gilman Square
- Green Line




 Massachusetts Bay Transportation Authority **massDOT**
Massachusetts Department of Transportation

Information 617-222-3200 • 1-800-392-6100
(TTY) 617-222-5146 • www.mbta.com





80 Weekday					
Inbound			Outbound		
Leave Arlington Center	Arrive Magoun Square	Arrive Lechmere Station	Leave Lechmere Station	Arrive Magoun Square	Arrive Arlington Center
5:00A	5:10A	5:24A	5:28A	5:37A	5:52A
5:25	5:35	5:49	5:55	6:04	6:19
5:57	6:07	6:21	6:25	6:34	6:49
6:25	6:35	6:49	6:55	7:05	7:26
6:40	6:50	7:06	7:15	7:26	7:47
6:55	7:09	7:29	7:40	7:54	8:15
7:15	7:30	7:56	8:05	8:19	8:40
7:35	7:53	8:19	8:30	8:41	9:02
8:00	8:18	8:44	8:55	9:06	9:27
8:25	8:43	9:06	9:20	9:31	9:49
8:50	9:06	9:25	9:50	10:00	10:18
9:10	9:25	9:42	10:15	10:25	10:43
9:35	9:48	10:03	10:40	10:50	11:08
10:00	10:13	10:28	11:05	11:15	11:33
10:30	10:43	10:58	11:30	11:40	11:58
10:50	11:03	11:18	11:55	12:05P	12:23P
11:15	11:28	11:43			
11:40	11:53	12:08P	12:20P	12:30	12:48
			12:45	12:55	1:13
12:05P	12:18P	12:33	1:10	1:20	1:38
12:35	12:48	1:03	1:35	1:45	2:03
1:00	1:13	1:28	2:00	2:10	2:28
1:25	1:38	1:53	2:30	2:44	3:03
1:50	2:03	2:18	2:55	3:09	3:28
2:15	2:28	2:43	3:15	3:29	3:48
2:40	2:53	3:08	3:35	3:49	4:08
3:00	3:13	3:28	3:55	4:09	4:28
3:15	3:28	3:43	4:15	4:29	4:48
3:40	3:53	4:08	4:35	4:49	5:08
3:55	4:08	4:23	5:00	5:18	5:41
4:20	4:34	4:51	5:20	5:38	6:01
4:35	4:52	5:09	5:40	5:58	6:21
5:00	5:17	5:34	6:05	6:23	6:43
5:20	5:37	5:54	6:30	6:43	7:01
5:50	6:07	6:22	7:05	7:16	7:32
6:30	6:44	6:59	7:45	7:56	8:12
7:10	7:24	7:38	8:20	8:31	8:47
7:40	7:51	8:04	8:55	9:06	9:22
8:20	8:31	8:44	9:30	9:41	9:57
9:00	9:11	9:24	10:10	10:21	10:37
9:40	9:51	10:04	11:10	11:18	11:32
10:40	10:48	10:59	12:10A	12:18A	12:32A
11:40	11:48	11:59	w 1:10	1:18	1:32
12:40A	12:48A	12:59A			

80 Saturday					
Inbound			Outbound		
Leave Arlington Center	Arrive Magoun Square	Arrive Lechmere Station	Leave Lechmere Station	Arrive Magoun Square	Arrive Arlington Center
5:05A	5:13A	5:25A	5:30A	5:38A	5:51A
6:00	6:08	6:20	6:30	6:38	6:51
6:30	6:38	6:50	7:00	7:08	7:21
7:00	7:08	7:20	7:30	7:38	7:51
7:30	7:40	7:53	8:00	8:08	8:23
8:00	8:10	8:23	8:30	8:38	8:53
8:30	8:40	8:53	9:00	9:09	9:26
9:00	9:12	9:25	9:30	9:39	9:56
9:30	9:42	9:55	10:00	10:10	10:28
10:00	10:15	10:29	10:35	10:45	11:03
10:35	10:50	11:04	11:10	11:20	11:38
11:10	11:25	11:39	11:45	11:55	12:13P
11:45	12:00N	12:14P			
			12:20P	12:30P	12:49
12:20P	12:35	12:49	12:55	1:05	1:24
12:55	1:10	1:24	1:30	1:40	1:59
1:30	1:45	1:59	2:05	2:15	2:34
2:05	2:20	2:34	2:40	2:50	3:09
2:40	2:55	3:09	3:15	3:25	3:44
3:15	3:30	3:44	3:50	4:00	4:17
3:50	4:05	4:19	4:25	4:35	4:52
4:25	4:39	4:52	5:00	5:10	5:27
5:00	5:13	5:26	5:35	5:45	6:02
5:35	5:48	6:01	6:10	6:20	6:37
6:10	6:23	6:35	7:15	7:25	7:42
6:45	6:57	7:09	8:20	8:30	8:47
7:50	8:01	8:14	9:20	9:29	9:45
8:50	8:59	9:12	10:20	10:29	10:45
9:50	9:59	10:12	11:20	11:29	11:43
10:50	10:59	11:12	12:20A	12:28A	12:42A
11:50	11:59	12:11A	w 1:18	1:26	1:40
12:50A	12:58A	1:10			

w- Waits for last trolley to arrive at Lechmere Station.
 All buses are accessible to persons with disabilities

Route 80
Arlington Center - Lechmere Station

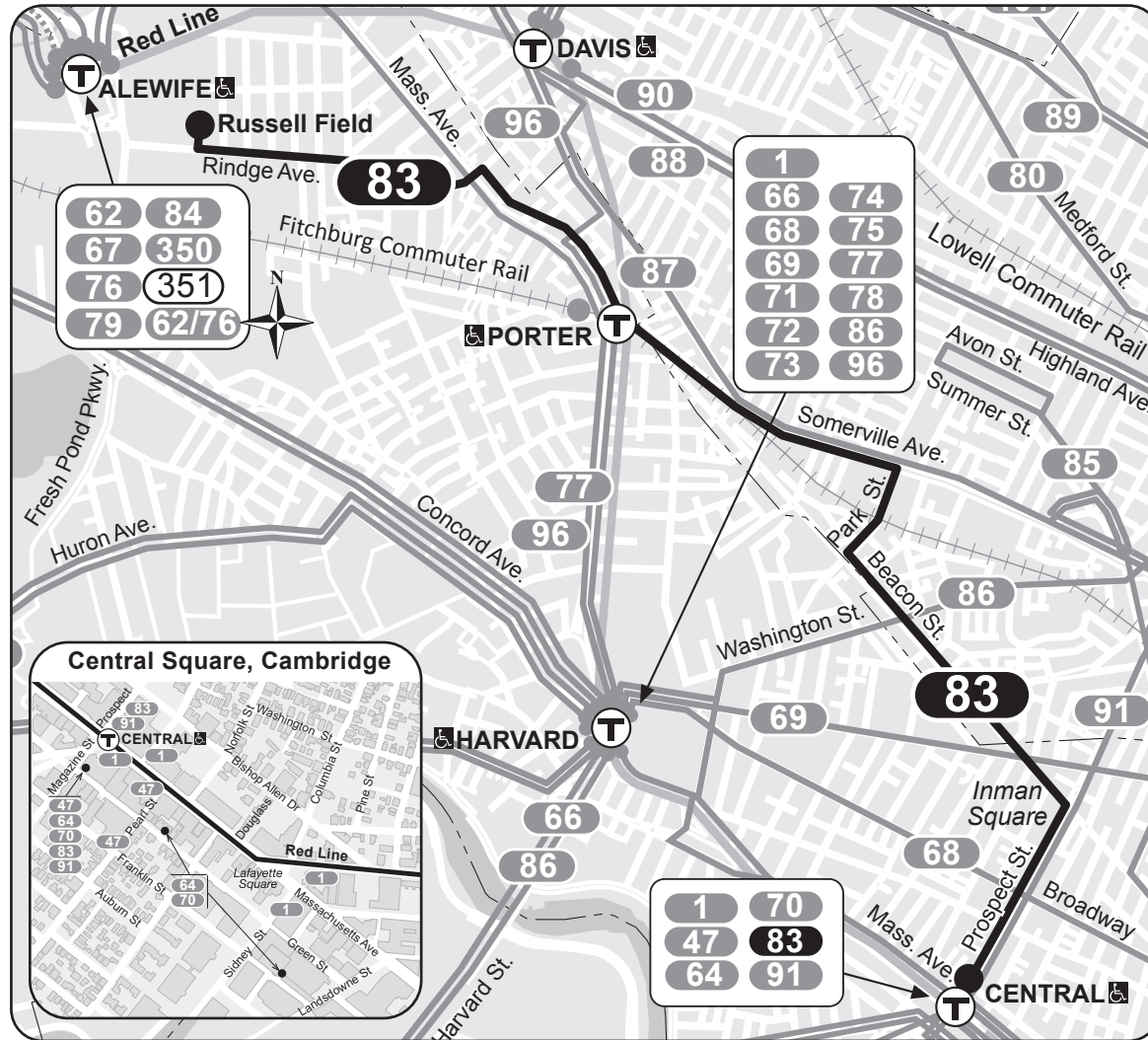
80 Sunday					
Inbound			Outbound		
Leave Arlington Center	Arrive Magoun Square	Arrive Lechmere Station	Leave Lechmere Station	Arrive Magoun Square	Arrive Arlington Center
6:30A	6:39A	6:51A	7:00A	7:09A	7:22A
7:30	7:39	7:51	8:00	8:09	8:22
8:30	8:41	8:54	9:00	9:11	9:26
9:30	9:43	9:56	10:00	10:11	10:26
10:35	10:48	11:01	11:10	11:21	11:36
11:45	11:59	12:12P			
			12:20P	12:31P	12:46P
12:55P	1:10P	1:23	1:30	1:41	1:57
2:05	2:18	2:30	2:40	2:51	3:07
3:15	3:28	3:40	3:50	4:02	4:17
4:25	4:38	4:50	5:00	5:13	5:28
5:35	5:48	6:00	6:10	6:21	6:37
6:45	6:58	7:10	7:20	7:31	7:47
7:55	8:07	8:19	8:30	8:41	8:56
9:05	9:17	9:29	9:40	9:50	10:03
10:15	10:25	10:36	10:50	11:00	11:13
11:25	11:34	11:44	12:00M	12:08A	12:21A

				
Fare	Local Bus	Bus + Bus	Subway	Bus + Subway
CharlieCard	\$1.70	\$1.70	\$2.40	\$2.40
CharlieTicket	\$1.70	\$1.70	\$2.40	\$4.10*
Cash-on-Board	\$1.70	\$3.40	\$2.40	\$4.10
Student/Youth**	\$0.85	\$0.85	\$1.10	\$1.10
Senior/TAP***	\$0.85	\$0.85	\$1.10	\$1.10

FREE FARES: Children 11 and under ride free when accompanied by a paying customer; Blind Access CharlieCard holders ride free and if using a guide, the guide rides free.
 * Transfers Subway to Silver Line SL4 or SL5 pay \$2.40
 ** Requires Student CharlieCard or Youth CharlieCard. Student CharlieCards available to students through participating middle and high schools. Youth CharlieCards available through community partners across Greater Boston.
 *** Requires Senior/TAP CharlieCard, available to Medicare cardholders, seniors 65+, and persons with disabilities.

Winter 2021 Holidays
 12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

Route 83 Rindge Avenue - Central Square, Cambridge



83

Effective December 20, 2020

Rindge Avenue - Central Square, Cambridge

Serving

- Porter Square Station
- Inman Square
- Red Line
- Fitchburg Commuter Rail



 Massachusetts Bay Transportation Authority *massDOT*
Massachusetts Department of Transportation

Information 617-222-3200 • 1-800-392-6100
(TTY) 617-222-5146 • www.mbta.com

83

Weekday

Inbound			Outbound		
Leave Rindge Avenue	Arrive Porter Sq. Station	Arrive Central Square	Leave Central Square	Arrive Porter Sq. Station	Arrive Rindge Avenue
5:10A	5:14A	5:24A	5:30A	5:38A	5:44A
5:30	5:34	5:44	5:50	5:58	6:04
5:50	5:54	6:04	6:10	6:18	6:24
6:10	6:14	6:24	6:30	6:38	6:44
6:30	6:35	6:50	6:55	7:06	7:11
6:50	6:55	7:10	7:20	7:33	7:40
7:10	7:15	7:30	7:40	7:55	8:02
7:30	7:37	7:57	8:05	8:20	8:27
7:50	7:57	8:17	8:25	8:40	8:47
8:10	8:17	8:37	8:50	9:05	9:12
8:35	8:42	9:02	9:10	9:25	9:32
8:55	9:02	9:22	9:35	9:50	9:57
9:20	9:27	9:44	10:00	10:15	10:22
9:40	9:46	10:02	10:30	10:45	10:52
10:05	10:11	10:27	11:00	11:15	11:22
10:30	10:36	10:52	11:30	11:45	11:52
11:00	11:06	11:22			
11:30	11:36	11:52			
			12:00N	12:15P	12:22P
12:00N	12:06P	12:22P	12:30P	12:45	12:52
12:30P	12:36	12:52	1:00	1:15	1:22
1:00	1:06	1:22	1:30	1:45	1:52
1:30	1:36	1:52	2:00	2:16	2:23
2:00	2:06	2:22	2:30	2:46	2:53
2:30	2:36	2:52	s 2:40	2:58	3:12
3:00	3:06	3:26	s 2:40	2:58	3:12
3:30	3:36	3:56	3:00	3:16	3:23
4:05	4:11	4:31	3:30	3:49	3:58
4:40	4:46	5:06	4:00	4:19	4:28
5:05	5:11	5:31	4:25	4:46	4:55
5:30	5:36	5:56	4:50	5:13	5:22
5:55	6:01	6:21	5:15	5:41	5:50
6:20	6:26	6:46	5:40	6:05	6:14
6:45	6:51	7:09	6:05	6:26	6:34
7:15	7:20	7:36	6:30	6:47	6:55
7:50	7:55	8:08	6:55	7:12	7:20
8:40	8:45	8:58	7:20	7:36	7:42
9:30	9:35	9:48	7:45	7:59	8:05
10:20	10:25	10:36	8:15	8:29	8:35
11:10	11:14	11:24	9:05	9:19	9:25
12:00M	12:04A	12:14A	9:55	10:05	10:11
12:45A	12:49	12:59	10:45	10:55	11:01
			11:35	11:45	11:51
			12:20A	12:30A	12:36A
			w 1:05	1:15	1:21

83

Saturday

Inbound			Outbound		
Leave Rindge Avenue	Arrive Porter Sq. Station	Arrive Central Square	Leave Central Square	Arrive Porter Sq. Station	Arrive Rindge Avenue
5:10A	5:12A	5:24A	5:30A	5:38A	5:43A
5:50	5:52	6:04	6:10	6:19	6:24
6:30	6:32	6:44	6:50	6:59	7:04
7:10	7:12	7:24	7:30	7:39	7:44
7:50	7:53	8:05	8:10	8:19	8:24
8:30	8:34	8:48	8:50	9:01	9:08
8:55	8:59	9:13	9:20	9:31	9:38
9:20	9:24	9:38	9:45	9:56	10:03
9:45	9:49	10:05	10:10	10:21	10:28
10:10	10:14	10:30	10:35	10:48	10:56
10:35	10:39	10:55	11:00	11:13	11:21
11:00	11:05	11:22	11:30	11:43	11:52
11:30	11:35	11:52			
			12:00N	12:13P	12:22P
12:00N	12:05P	12:22P	12:30P	12:43	12:52
12:30P	12:35	12:52	1:00	1:13	1:22
1:00	1:05	1:22	1:30	1:43	1:52
1:30	1:35	1:52	2:00	2:13	2:22
2:00	2:05	2:22	2:30	2:43	2:52
2:30	2:35	2:52	3:00	3:13	3:22
3:00	3:05	3:22	3:30	3:43	3:52
3:30	3:35	3:52	4:00	4:13	4:22
4:00	4:05	4:22	4:30	4:43	4:52
4:30	4:35	4:52	5:00	5:13	5:22
5:00	5:05	5:22	5:30	5:43	5:52
5:30	5:35	5:52	6:00	6:13	6:21
6:00	6:05	6:22	6:35	6:48	6:56
6:30	6:35	6:52	7:10	7:23	7:31
7:00	7:04	7:20	8:05	8:17	8:25
7:40	7:44	8:00	8:55	9:07	9:15
8:30	8:34	8:47	9:42	9:54	10:02
9:20	9:24	9:37	10:30	10:38	10:44
10:05	10:09	10:22	11:10	11:18	11:24
10:50	10:54	11:07	11:50	11:58	12:04A
11:30	11:33	11:44	12:30A	12:38A	12:44
12:10A	12:13A	12:24A	w 1:15	1:23	1:29
12:50	12:53	1:04			

s - Leaves from Broadway at Felton Steet and does NOT run during school vacation.
w - Waits for last train to arrive at Central Square Station.

**Route 83
Rindge Ave.-Central Sq., Cambridge**

83

Sunday

Inbound			Outbound		
Leave Rindge Avenue	Arrive Porter Sq. Station	Arrive Central Square	Leave Central Square	Arrive Porter Sq. Station	Arrive Rindge Avenue
7:45A	7:49A	8:00A	7:25A	7:35A	7:40A
8:45	8:50	9:03	8:25	8:35	8:40
9:40	9:45	10:00	9:15	9:26	9:32
10:30	10:35	10:50	10:05	10:16	10:22
11:20	11:25	11:40	10:55	11:07	11:14
			11:45	11:57	12:04P
12:10P	12:16P	12:31P			
1:00	1:06	1:21	12:35P	12:49P	12:56P
1:50	1:56	2:11	1:25	1:39	1:46
2:40	2:45	3:00	2:15	2:29	2:36
3:30	3:35	3:50	3:05	3:19	3:26
4:20	4:25	4:40	3:55	4:10	4:18
5:10	5:15	5:30	4:45	4:59	5:05
6:00	6:05	6:20	5:35	5:49	5:55
6:50	6:55	7:08	6:25	6:39	6:45
7:40	7:44	7:57	7:15	7:29	7:35
8:35	8:39	8:52	8:10	8:24	8:30
9:25	9:29	9:42	9:00	9:10	9:16
10:20	10:24	10:36	9:55	10:05	10:11
11:10	11:14	11:26	10:45	10:55	11:01
12:00M	12:03A	12:13A	11:35	11:43	11:48
12:45A	12:48	12:58	12:25A	12:33A	12:38A
			w 1:05	1:14	1:19

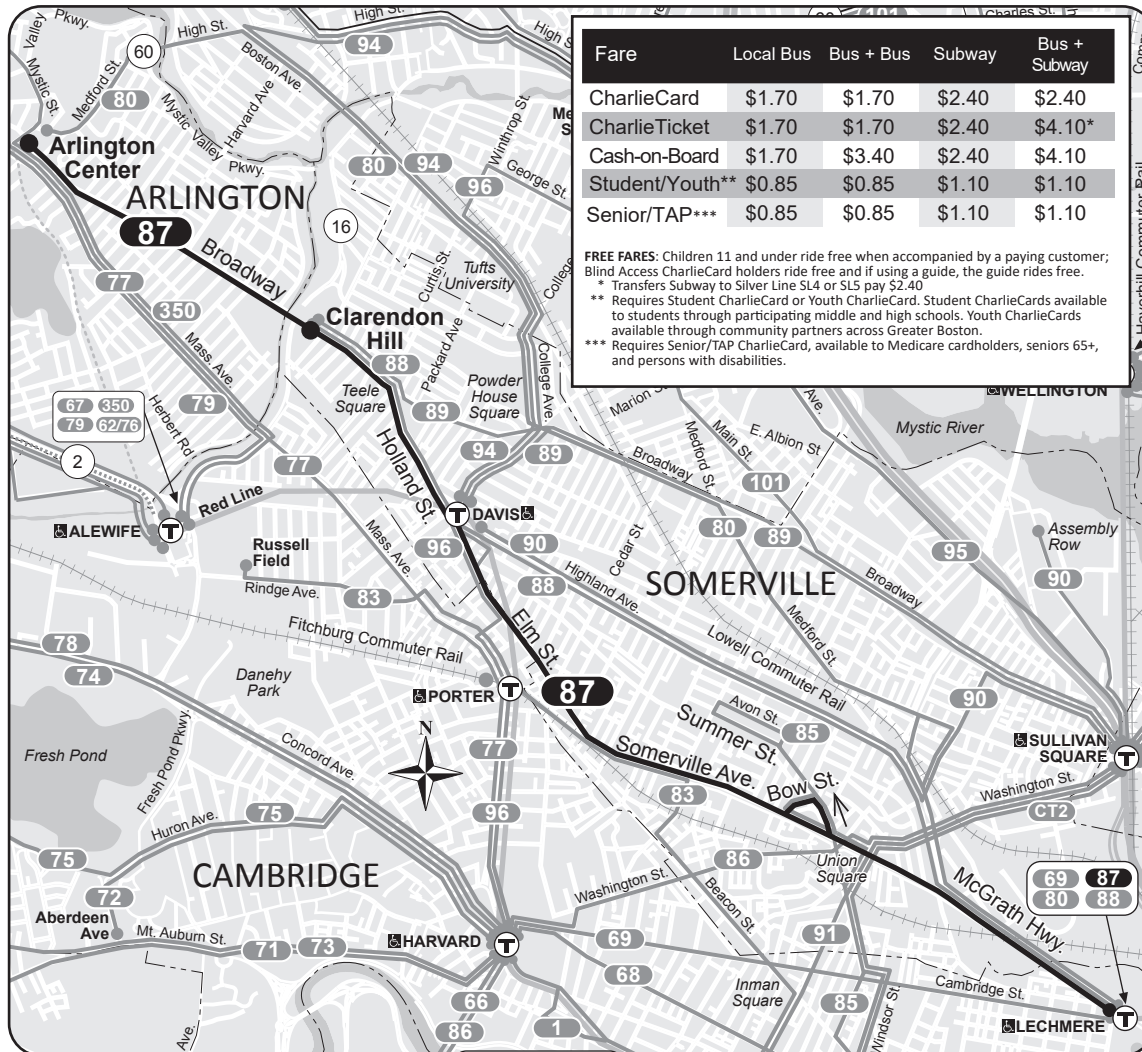
All buses are accessible to persons with disabilities

Fare	Local Bus	Bus + Bus	Subway	Bus + Subway
CharlieCard	\$1.70	\$1.70	\$2.40	\$2.40
CharlieTicket	\$1.70	\$1.70	\$2.40	\$4.10*
Cash-on-Board	\$1.70	\$3.40	\$2.40	\$4.10
Student/Youth**	\$0.85	\$0.85	\$1.10	\$1.10
Senior/TAP***	\$0.85	\$0.85	\$1.10	\$1.10

FREE FARES: Children 11 and under ride free when accompanied by a paying customer; Blind Access CharlieCard holders ride free and if using a guide, the guide rides free.
* Transfers Subway to Silver Line SL4 or SL5 pay \$2.40
** Requires Student CharlieCard or Youth CharlieCard. Student CharlieCards available to students through participating middle and high schools. Youth CharlieCards available through community partners across Greater Boston.
*** Requires Senior/TAP CharlieCard, available to Medicare cardholders, seniors 65+, and persons with disabilities.

Winter 2021 Holidays
12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

Route 87 Arlington Center or Clarendon Hill - Lechmere Station



87

Effective December 20, 2020

Arlington Center or Clarendon Hill - Lechmere Station

Serving

- Teele Square
- Davis Station
- Union Square, Somerville
- Red Line
- Green Line



T Massachusetts Bay Transportation Authority **massDOT**
 Massachusetts Department of Transportation

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87

Weekday

Inbound				Outbound			
Leave Arlington Center	Lv/Arrive Clarendon Hill	Arrive Davis Station	Arrive Lechmere Station	Leave Lechmere Station	Arrive Davis Station	Arrive Clarendon Hill	Arrive Arlington Center
.....	5:07A	5:10A	5:24A	5:29A	5:40A	5:45A	.....
.....	5:27	5:30	5:44	5:52	6:04	6:07	6:10A
.....	5:50	5:53	6:07	6:23	6:36	6:40	6:45
.....	6:08	6:11	6:25	6:38	6:53	6:57	7:02
6:16A	6:23	6:28	6:50	6:55	7:10	7:14	7:19
6:33	6:40	6:45	7:07	7:15	7:30	7:37	7:43
6:49	6:56	7:01	7:23	7:31	7:51	7:58	8:04
7:06	7:13	7:18	7:47	7:51	8:11	8:18	8:24
7:23	7:30	7:37	8:06	8:09	8:29	8:36	8:42
7:38	7:47	7:54	8:28	8:23	8:43	8:50	8:56
7:54	8:04	8:11	8:47	8:47	9:06	9:12	9:17
8:12	8:22	8:29	9:03	9:16	9:36	9:42	9:47
8:30	8:40	8:47	9:17	9:40	10:00	10:06	10:11
8:48	8:58	9:04	9:33	10:09	10:29	10:35	10:40
9:08	9:16	9:22	9:51	10:38	10:58	11:04	11:09
9:29	9:37	9:43	10:11	11:08	11:28	11:34	11:39
9:53	10:01	10:06	10:30	11:40	12:00N	12:06P	12:11P
10:19	10:24	10:29	10:53				
10:45	10:50	10:55	11:19	12:10P	12:30P	12:36P	12:41P
11:15	11:20	11:25	11:49	12:38	12:58	1:04	1:09
11:45	11:50	11:55	12:19P	1:08	1:28	1:36	1:41
				1:37	1:59	2:08	2:13
12:20P	12:25P	12:30P	12:54P	2:05	2:27	2:36	2:41
12:50	12:55	1:00	1:24	2:34	2:56	3:05	3:10
1:20	1:25	1:30	1:54	3:00	3:22	3:31	3:36
1:52	1:57	2:02	2:26	3:17	3:39	3:48	3:53
2:19	2:24	2:29	2:53	3:36	3:58	4:07	4:12
2:35	2:40	2:45	3:09	3:56	4:18	4:27	4:33
2:55	3:00	3:05	3:29	4:21	4:44	4:55	5:02
3:16	3:21	3:26	3:50	4:41	5:05	5:16	5:23
3:40	3:45	3:50	4:14	5:03	5:27	5:38	5:45
3:59	4:04	4:09	4:33	5:24	5:48	5:59	6:05
4:18	4:23	4:28	4:54	5:43	6:08	6:17	6:23
4:39	4:44	4:50	5:16	6:04	6:27	6:36	6:42
4:57	5:02	5:08	5:34	6:24	6:47	6:56	7:01
5:17	5:22	5:28	5:54	6:41	7:04	7:12	7:16
5:37	5:42	5:48	6:14	7:00	7:20	7:28	7:32
5:57	6:02	6:08	6:33	7:25	7:45	7:53	7:57
6:17	6:22	6:28	6:51	7:55	8:12	8:19	.....
6:37	6:41	6:45	7:08	8:25	8:42	8:49	.....
6:57	7:01	7:05	7:28	8:50	9:07	9:14	.....
7:20	7:24	7:28	7:50	9:20	9:37	9:44	.....
7:50	7:54	7:57	8:19	9:50	10:07	10:14	.....
.....	8:25	8:28	8:44	10:20	10:37	10:44	.....
.....	8:55	8:58	9:14	10:50	11:07	11:14	.....
.....	9:25	9:28	9:44	11:20	11:36	11:41	.....
.....	9:55	9:58	10:14	11:50	12:04A	12:09A	.....
.....	10:25	10:28	10:44	12:20A	12:33	12:38	.....
.....	10:55	10:58	11:14	12:55	1:07	1:12	.....
.....	11:25	11:28	11:41	w 1:22	1:33	1:38	.....
.....	12:00M	12:03A	12:16A				
.....	12:30A	12:33	12:46				
.....	1:00	1:03	1:16				

87

Saturday

Inbound				Outbound			
Leave Arlington Center	Lv/Arrive Clarendon Hill	Arrive Davis Station	Arrive Lechmere Station	Leave Lechmere Station	Arrive Davis Station	Arrive Clarendon Hill	Arrive Arlington Center
.....	5:15A	5:18A	5:29A	5:38A	5:50A	5:54A	5:58A
.....	5:45	5:48	5:59	6:10	6:22	6:26	6:30
6:10A	6:15	6:18	6:33	6:40	6:54	6:58	7:02
6:40	6:45	6:48	7:03	7:10	7:24	7:28	7:32
7:10	7:15	7:18	7:33	7:40	7:54	7:58	8:02
7:40	7:45	7:48	8:03	8:10	8:24	8:28	8:33
8:10	8:15	8:18	8:38	8:41	8:57	9:02	9:07
8:40	8:45	8:48	9:08	9:11	9:27	9:32	9:37
9:10	9:15	9:19	9:38	9:35	9:54	10:00	10:05
9:40	9:45	9:49	10:13	9:40	9:45	9:49	10:13
10:10	10:15	10:19	10:43	10:00	10:19	10:25	10:30
10:35	10:40	10:44	11:08	10:20	10:40	10:46	10:52
11:07	11:12	11:16	11:42	10:50	11:10	11:16	11:22
11:35	11:41	11:45	12:14P	11:16	11:36	11:42	11:48
				11:42	12:02P	12:08P	12:14P
12:00N	12:06P	12:10P	12:39P	12:07P	12:27P	12:33P	12:39P
12:25P	12:31	12:35	1:03	12:32	12:52	12:58	1:04
12:50	12:56	1:00	1:27	12:57	1:17	1:23	1:29
1:15	1:20	1:23	1:50	1:22	1:42	1:48	1:54
1:41	1:46	1:49	2:16	1:47	2:07	2:13	2:19
2:06	2:11	2:14	2:41	2:12	2:32	2:38	2:44
2:31	2:36	2:39	3:06	2:37	2:57	3:03	3:09
2:56	3:01	3:04	3:31	3:02	3:22	3:28	3:34
3:21	3:26	3:29	3:56	3:27	3:47	3:53	3:59
3:46	3:51	3:54	4:21	3:52	4:12	4:18	4:24
4:11	4:16	4:19	4:46	4:17	4:37	4:43	4:49
4:36	4:41	4:44	5:11	4:42	5:02	5:08	5:14
5:01	5:06	5:09	5:35	5:07	5:27	5:33	5:39
5:26	5:31	5:34	6:00	5:32	5:51	5:57	6:03
5:51	5:56	5:59	6:25	5:55	6:14	6:20	6:26
6:16	6:21	6:24	6:50	6:18	6:37	6:43	6:49
6:45	6:50	6:53	7:17	6:47	7:06	7:12	7:18
7:22	7:26	7:29	7:52	7:22	7:41	7:47	7:53
7:57	8:01	8:04	8:27	8:05	8:23	8:29	.....
.....	8:40	8:43	9:00	8:50	9:07	9:13	.....
.....	9:20	9:23	9:39	9:30	9:46	9:52	.....
.....	9:57	10:00	10:16	10:05	10:21	10:27	.....
.....	10:32	10:35	10:51	10:40	10:55	11:01	.....
.....	11:07	11:10	11:24	11:15	11:28	11:34	.....
.....	11:40	11:43	11:57	11:50	12:03A	12:08A	.....
.....	12:20A	12:23A	12:35A	12:30A	12:40	12:45	.....
.....	12:55	12:58	1:10	w 1:20	1:30	1:35	.....

Route 87
Arlington Ctr or Clarendon Hill - Lechmere Sta.

87

Sunday

Inbound			Outbound		
Leave Clarendon Hill	Arrive Davis Station	Arrive Lechmere Station	Leave Lechmere Station	Arrive Davis Station	Arrive Clarendon Hill
6:00A	6:03A	6:16A	6:38A	6:51A	6:57A
7:00	7:03	7:16	7:38	7:51	7:57
8:00	8:03	8:16	8:38	8:51	8:57
8:55	8:58	9:11	9:34	9:47	9:53
9:28	9:32	9:49	10:14	10:30	10:37
10:05	10:09	10:26	10:54	11:12	11:19
10:45	10:49	11:08	11:34	11:53	12:00N
11:25	11:29	11:53			
			12:14P	12:33P	12:40P
12:05P	12:09P	12:33P	12:54	1:13	1:20
12:45	12:49	1:13	1:34	1:53	2:00
1:25	1:29	1:53	2:14	2:33	2:40
2:05	2:08	2:30	2:54	3:13	3:20
2:45	2:48	3:10	3:34	3:53	4:00
3:25	3:28	3:50	4:13	4:33	4:40
4:05	4:08	4:30	4:53	5:13	5:20
4:45	4:48	5:10	5:34	5:54	6:01
5:25	5:28	5:50	6:14	6:31	6:38
6:05	6:08	6:30	6:55	7:12	7:19
6:45	6:48	7:10	7:36	7:50	7:57
7:25	7:28	7:43	8:16	8:30	8:37
8:05	8:08	8:23	8:55	9:09	9:16
8:45	8:48	9:03	9:35	9:49	9:56
9:25	9:28	9:45	10:15	10:28	10:32
10:05	10:08	10:22	10:50	11:03	11:07
10:45	10:48	11:02	11:30	11:43	11:47
11:20	11:23	11:37	12:00M	12:11A	12:15A
11:55	11:58	12:12A	12:35A	12:46	12:50
12:25A	12:28A	12:42	w 1:18	1:29	1:33
12:55	12:58	1:12			

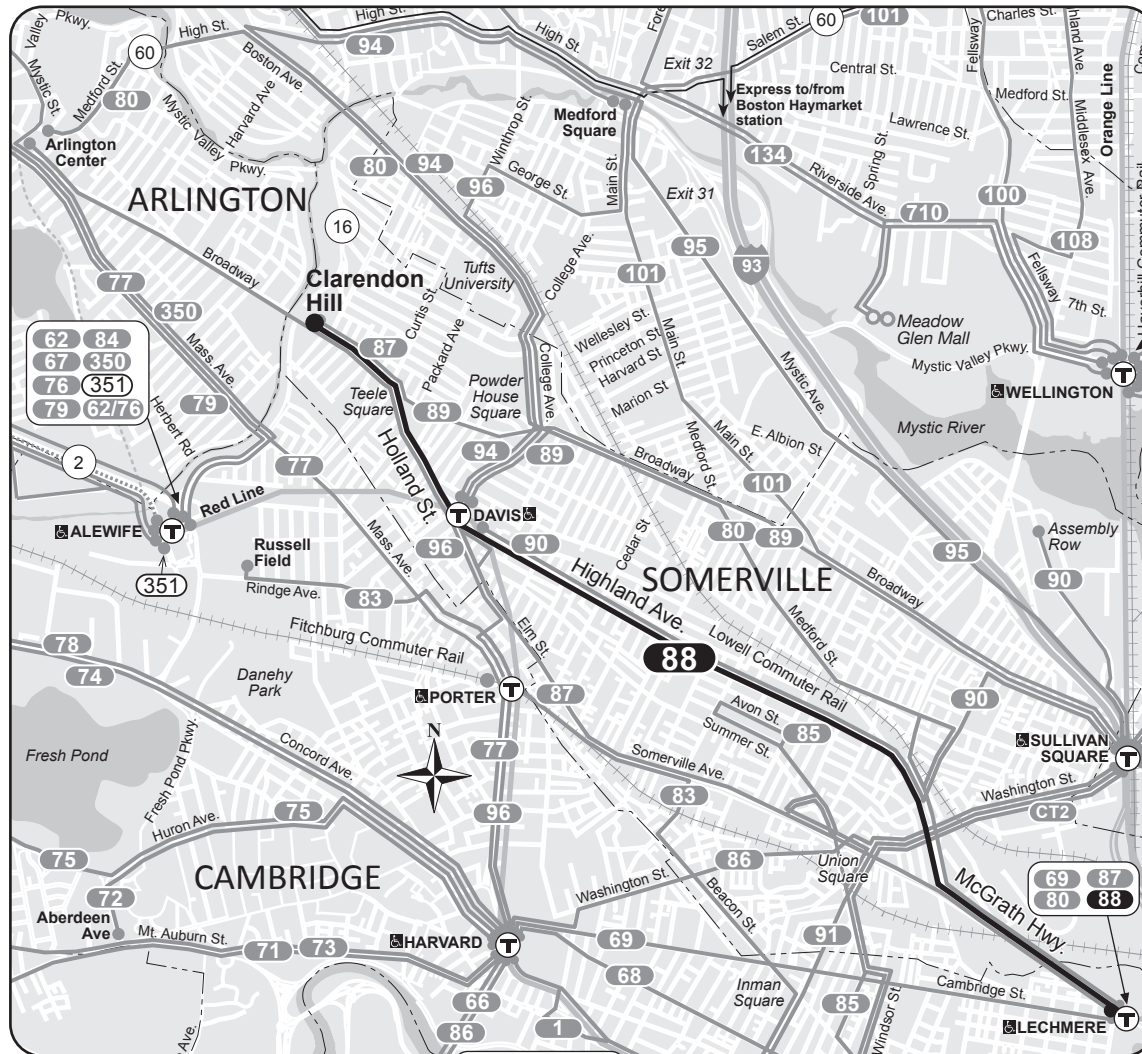
w- Waits for last trolley to arrive at Lechmere Station.

 All buses are accessible to persons with disabilities

Fares on map side.

Winter 2021 Holidays
12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

Route 88 Clarendon Hill - Lechmere Station



88

Effective December 20, 2020

Clarendon Hill- Lechmere Station

Serving

- Teele Square
- Davis Station
- Somerville City Hospital
- Somerville High School
- Somerville City Hall
- Green Line
- Red Line



 Massachusetts Bay Transportation Authority *massDOT*
Massachusetts Department of Transportation

Information 617-222-3200 • 1-800-392-6100
(TTY) 617-222-5146 • www.mbta.com

88

Weekday

Inbound				Outbound			
Leave Clarendon Hill	Arrive Davis Square	Arrive Somerville High School	Arrive Lechmere Station	Leave Lechmere Station	Arrive Somerville High School	Arrive Davis Square	Arrive Clarendon Hill
5:13A	5:16A	5:22A	5:34A	5:37A	5:43A	5:50A	5:55A
5:39	5:42	5:48	6:00	6:03	6:09	6:16	6:21
5:59	6:02	6:08	6:20	6:13	6:19	6:26	6:31
6:16	6:19	6:25	6:37	6:44	6:50	6:57	7:03
6:32	6:35	6:41	6:56	7:04	7:11	7:20	7:26
6:48	6:52	7:04	7:23	7:21	7:28	7:40	7:49
7:06	7:10	7:22	7:43	7:36	7:46	7:58	8:07
7:21	7:25	7:39	8:01	7:56	8:06	8:18	8:27
7:36	7:43	7:57	8:19	8:16	8:26	8:38	8:47
7:54	8:01	8:15	8:37	8:39	8:49	9:00	9:08
8:12	8:19	8:33	8:55	8:59	9:07	9:16	9:24
8:32	8:39	8:53	9:13	9:21	9:29	9:38	9:46
8:52	8:59	9:10	9:30	9:35	9:43	9:52	10:00
9:11	9:15	9:26	9:42	9:56	10:04	10:13	10:21
9:27	9:30	9:39	9:54	10:24	10:32	10:41	10:49
9:49	9:52	10:01	10:16	10:53	11:01	11:10	11:18
10:13	10:16	10:25	10:40	11:21	11:29	11:38	11:46
10:35	10:38	10:47	11:02	11:35	11:43	11:52	12:00N
11:05	11:08	11:17	11:32				
11:35	11:38	11:47	12:02P	12:00N	12:08P	12:17P	12:25
11:55	11:58	12:07P	12:22P	12:25	12:33	12:42	12:50
				12:48	12:56	1:05	1:13
12:15P	12:18P	12:27	12:42	1:15	1:23	1:32	1:40
12:35	12:38	12:47	1:02	1:30	1:38	1:47	1:55
1:00	1:03	1:12	1:27	1:50	1:58	2:07	2:15
1:15	1:18	1:27	1:42	2:15	2:23	2:32	2:42
1:35	1:38	1:47	2:02	.....	s 2:35	2:45	2:55
1:50	1:53	2:02	2:17	2:30	2:40	2:50	3:00
2:10	2:13	2:22	2:37	.....	s 2:40	2:50	3:00
2:30	2:34	2:44	2:59	.....	s 2:50	3:00	3:10
2:49	2:53	3:03	3:18	2:49	2:59	3:09	3:19
3:12	3:16	3:26	3:41	3:08	3:18	3:28	3:38
3:35	3:39	3:49	4:04	3:27	3:37	3:47	3:57
3:55	3:59	4:09	4:24	3:47	3:57	4:07	4:17
4:15	4:19	4:29	4:44	4:09	4:19	4:29	4:42
4:35	4:39	4:49	5:05	4:29	4:41	4:54	5:07
4:55	4:59	5:11	5:27	4:50	5:02	5:15	5:28
5:17	5:22	5:34	5:50	5:12	5:24	5:37	5:50
5:34	5:39	5:51	6:07	5:36	5:48	6:01	6:14
5:57	6:02	6:14	6:30	5:59	6:11	6:24	6:37
6:20	6:25	6:37	6:50	6:11	6:23	6:36	6:47
6:41	6:45	6:56	7:09	6:35	6:47	6:57	7:07
6:57	7:01	7:12	7:25	6:55	7:05	7:15	7:25
7:13	7:17	7:28	7:39	7:13	7:23	7:33	7:42
7:45	7:48	7:56	8:07	7:40	7:48	7:58	8:07
8:11	8:14	8:22	8:33	8:10	8:18	8:28	8:36
8:40	8:43	8:51	9:02	8:40	8:47	8:54	9:01
9:10	9:13	9:21	9:32	9:10	9:17	9:24	9:31
9:40	9:43	9:51	10:02	9:40	9:47	9:54	10:01
10:10	10:13	10:21	10:32	10:10	10:17	10:24	10:31
10:40	10:42	10:48	10:59	10:40	10:47	10:54	11:01
11:10	11:12	11:18	11:29	11:10	11:15	11:20	11:27
11:45	11:47	11:53	12:04A	11:40	11:45	11:50	11:57
12:15A	12:17A	12:23A	12:34	12:10A	12:15A	12:20A	12:27A
12:50	12:52	12:58	1:09	12:40	12:45	12:50	12:57
				w 1:22	1:27	1:32	1:39

88

Saturday

Inbound				Outbound			
Leave Clarendon Hill	Arrive Davis Square	Arrive Somerville High School	Arrive Lechmere Station	Leave Lechmere Station	Arrive Somerville High School	Arrive Davis Square	Arrive Clarendon Hill
5:30A	5:33A	5:37A	5:47A	5:55A	6:01A	6:06A	6:10A
6:00	6:03	6:07	6:17	6:25	6:31	6:37	6:41
6:30	6:33	6:37	6:47	6:55	7:01	7:07	7:11
7:00	7:03	7:07	7:17	7:25	7:31	7:37	7:41
7:30	7:33	7:37	7:47	7:55	8:01	8:07	8:11
8:00	8:03	8:09	8:19	8:25	8:31	8:40	8:45
8:30	8:33	8:39	8:49	8:55	9:01	9:10	9:15
9:00	9:04	9:11	9:23	9:25	9:32	9:41	9:47
9:30	9:34	9:42	9:54	9:50	9:57	10:06	10:12
10:00	10:04	10:12	10:24	10:30	10:38	10:47	10:53
10:30	10:34	10:42	10:54	11:03	11:11	11:20	11:26
11:00	11:04	11:12	11:24	11:30	11:38	11:47	11:53
11:31	11:35	11:45	11:58	11:55	12:03P	12:12P	12:18P
11:58	12:02P	12:12P	12:25P	12:20P	12:28	12:37	12:43
				12:45	12:53	1:02	1:08
12:23P	12:27	12:37	12:50	1:10	1:18	1:27	1:33
12:48	12:52	1:02	1:14	1:35	1:43	1:52	1:58
1:13	1:16	1:26	1:38	1:38	1:43	1:52	1:58
1:38	1:41	1:51	2:03	2:00	2:08	2:17	2:23
2:03	2:06	2:16	2:28	2:25	2:33	2:42	2:48
2:28	2:31	2:41	2:53	2:50	2:58	3:07	3:13
2:53	2:56	3:06	3:18	3:15	3:23	3:32	3:38
3:18	3:21	3:31	3:43	3:40	3:48	3:57	4:03
3:43	3:46	3:56	4:08	4:05	4:13	4:22	4:28
4:08	4:11	4:21	4:33	4:30	4:38	4:47	4:53
4:33	4:36	4:46	4:58	4:55	5:03	5:12	5:18
4:58	5:01	5:10	5:22	5:21	5:29	5:37	5:43
5:23	5:26	5:35	5:47	5:45	5:53	6:01	6:07
5:48	5:51	6:00	6:12	6:08	6:16	6:24	6:30
6:13	6:16	6:25	6:37	6:35	6:43	6:51	6:57
6:36	6:39	6:48	7:00	7:07	7:15	7:23	7:29
7:05	7:08	7:16	7:28	7:45	7:53	8:01	8:07
7:40	7:43	7:51	8:03	8:30	8:36	8:44	8:50
8:20	8:23	8:31	8:42	9:10	9:16	9:24	9:30
9:00	9:03	9:09	9:20	9:50	9:56	10:04	10:10
9:40	9:43	9:49	10:00	10:25	10:31	10:38	10:44
10:15	10:18	10:24	10:35	11:00	11:06	11:13	11:19
10:50	10:53	10:59	11:10	11:35	11:41	11:48	11:54
11:23	11:26	11:32	11:43	12:10A	12:16A	12:20A	12:25A
12:00M	12:03A	12:09A	12:20A	12:45	12:51	12:55	1:00
12:40	12:43	12:49	1:00	w 1:20	1:26	1:30	1:35

s - Does NOT run during school vacation
w- Waits for last trolley to arrive at Lechmere Station.

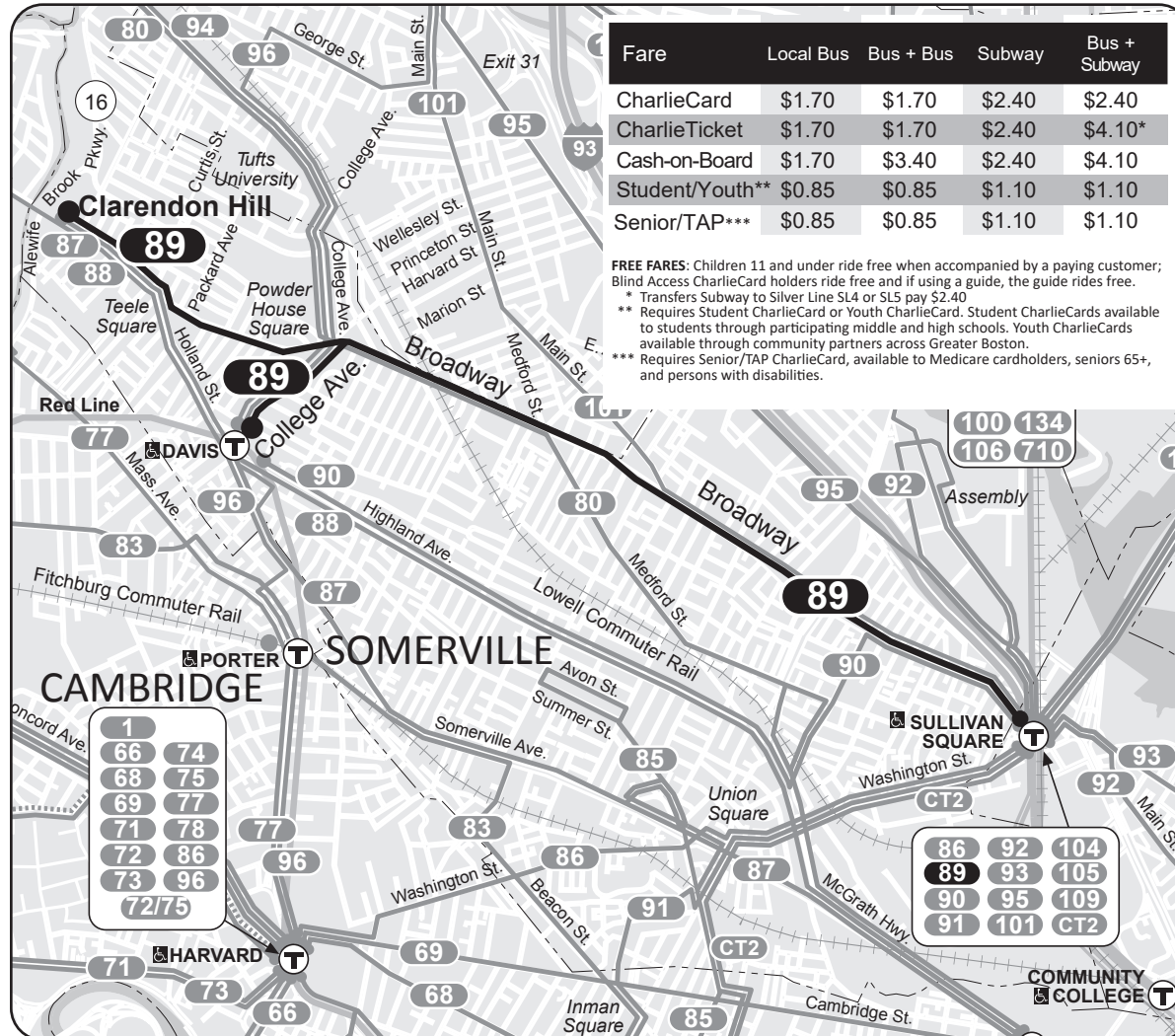
Winter 2021 Holidays
12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

88

Sunday

Inbound				Outbound			
Leave Clarendon Hill	Arrive Davis Square	Arrive Somerville High School	Arrive Lechmere Station	Leave Lechmere Station	Arrive Somerville High School	Arrive Davis Square	Arrive Clarendon Hill
6:40A	6:43A	6:49A	6:59A	6:19	6:24	6:31	6:37
7:40	7:43	7:49	7:59	7:19	7:24	7:31	7:37
8:40	8:43	8:49	8:59	8:19	8:24	8:31	8:37
9:10	9:13	9:19	9:29	9:15	9:20	9:27	9:33
9:45	9:49	9:58	10:09	9:58	10:03	10:10	10:17
10:25	10:29	10:38	10:49	10:38	10:44	10:51	10:58
11:05	11:09	11:18	11:30	11:18	11:24	11:33	11:40
11:45	11:49	11:58	12:10P	11:58	12:04P	12:13P	12:20P
12:25P	12:29P	12:38P	12:50	12:38P	12:44	12:53	1:00
1:05	1:09	1:18	1:30	1:18	1:24	1:33	1:40
1:45	1:49	1:58	2:10	1:58	2:04	2:13	2:20
2:25	2:28	2:37	2:49	2:38	2:44	2:53	3:00
3:05	3:08	3:17	3:29	3:18	3:24	3:33	3:40
3:45	3:48	3:57	4:09	3:58	4:04	4:13	4:20
4:25	4:28	4:37	4:49	4:38	4:44	4:53	5:00
5:05	5:08	5:17	5:29	5:18	5:24	5:33	5:40
5:45	5:48	5:57	6:09	5:58	6:04	6:10	6:17
6:25	6:28	6:37	6:49	6:38	6:44	6:50	6:57
7:05	7:08	7:17	7:29	7:18	7:24	7:30	7:37
7:45	7:48	7:55	8:04	7:58	8:04	8:10	8:17
8:25	8:28	8:35	8:44	8:36	8:42	8:48	8:55
9:05	9:08	9:15	9:24	9:15	9:21	9:27	9:34
9:45	9:48	9:55	10:04	9:55	10:01	10:08	10:12
10:25	10:28	10:35	10:44	10:35	10:41	10:48	10:52
11:00	11:03	11:08	11:17	11:10	11:16	11:23	

Route 89 Clarendon Hill or Davis Square - Sullivan Square Station



Schedule Change

89

Effective December 20, 2020

Clarendon Hill or Davis Square-Sullivan Square Station

Serving

- Teele Square
- Powder House Square
- Ball Square
- Magoun Square
- Winter Hill
- East Somerville
- Red Line
- Orange Line



T Massachusetts Bay Transportation Authority **massDOT**
 Massachusetts Department of Transportation

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89 Weekday				89 Saturday				89 Sunday					
Inbound		Outbound		Inbound		Outbound		Inbound		Outbound			
Leave Clarendon Hill	Leave Davis Square	Arrive Winter Hill	Arrive Sullivan Station	Leave Sullivan Station	Arrive Winter Hill	Arrive Davis Square	Arrive Clarendon Hill	Leave Davis Square	Arrive Winter Hill	Arrive Sullivan Station	Leave Sullivan Station	Arrive Winter Hill	Arrive Davis Square
a 4:31A	.....	4:36A	4:47A	4:46A	4:54A	.....	5:04A	a 4:33A	4:38A	4:54A	5:15A	5:20A	5:28A
5:05	.....	5:13	5:19	5:25	5:33	.....	5:43	5:30	5:34	5:40	5:47	5:52	6:00
.....	5:43A	5:49	5:55	5:26	5:34	5:42	.....	6:02	6:06	6:12	6:19	6:24	6:32
5:51	.....	5:59	6:05	5:42	5:50	5:58	.....	6:34	6:38	6:45	6:51	6:57	7:06
6:10	.....	6:10	6:16	5:49	5:57	.....	6:07	7:07	7:11	7:18	7:24	7:30	7:39
.....	6:04	6:18	6:24	6:01	6:09	6:17	.....	7:42	7:46	7:53	8:02	8:08	8:17
.....	6:19	6:25	6:31	6:07	6:15	6:23	.....	8:20	8:26	8:33	8:41	8:47	8:56
6:33	.....	6:29	6:35	6:12	6:20	.....	6:30	8:59	9:05	9:12	9:19	9:25	9:35
.....	6:41	6:47	6:53	6:22	6:30	6:42	.....	9:38	9:44	9:53	10:00	10:09	10:20
6:57	.....	6:47	6:53	6:29	6:37	.....	6:47	10:22	10:28	10:37	10:45	10:53	10:65
.....	7:05	7:14	7:21	6:42	6:50	7:04	.....	10:47	10:53	11:02	10:46	10:55	11:06
.....	7:14	7:20	7:29	6:55	7:03	7:21	.....	11:09	11:15	11:24	11:13	11:22	11:33
7:23	.....	7:29	7:38	7:06	7:14	.....	7:28	11:36	11:42	11:51	11:37	11:46	11:57
7:34	.....	7:46	7:55	7:19	7:27	7:45	.....	.....	.....	.....	.....	.....	.....
.....	7:51	7:59	8:08	7:32	7:40	.....	7:54	.....	.....	.....	.....	.....	.....
8:02	.....	8:14	8:23	7:49	7:57	8:15	.....	12:00N	12:07P	12:16P	12:04P	12:13P	12:24P
.....	8:19	8:27	8:36	8:01	8:09	8:27	.....	12:27	12:34	12:43	12:28	12:37	12:48
.....	8:31	8:39	8:48	8:13	8:21	.....	8:35	12:52	12:59	1:08	12:55	1:04	1:15
8:43	.....	8:55	9:03	8:29	8:37	8:55	.....	1:19	1:26	1:35	1:20	1:29	1:40
.....	8:59	9:07	9:14	8:40	8:48	.....	9:02	1:44	1:51	2:00	1:47	1:56	2:07
9:09	.....	9:21	9:28	9:03	9:11	9:24	.....	2:11	2:18	2:27	2:11	2:20	2:31
.....	9:27	9:33	9:40	9:31	9:39	9:52	.....	2:35	2:42	2:51	2:39	2:48	2:59
.....	9:55	10:01	10:08	9:59	10:07	10:20	.....	3:03	3:10	3:19	3:03	3:12	3:23
.....	10:23	10:29	10:36	10:23	10:31	10:44	.....	3:27	3:34	3:43	3:31	3:40	3:51
.....	10:47	10:53	11:00	10:48	10:56	11:09	.....	3:53	4:00	4:09	3:55	4:04	4:15
.....	11:12	11:18	11:25	11:12	11:20	11:33	.....	4:16	4:23	4:32	4:22	4:31	4:42
.....	11:36	11:43	11:50	11:37	11:45	11:58	.....	4:44	4:51	5:00	4:45	4:54	5:05
.....	12:01P	12:08P	12:15P	12:01P	12:09P	12:22P	.....	5:08	5:15	5:24	5:14	5:23	5:34
.....	12:26	12:33	12:40	12:26	12:34	12:47	.....	5:37	5:43	5:52	5:37	5:46	5:57
.....	12:51	12:58	1:05	12:53	1:01	1:14	.....	6:02	6:08	6:14	6:03	6:08	6:19
.....	1:18	1:25	1:32	1:20	1:28	.....	1:40P	6:29	6:35	6:41	6:28	6:33	6:44
1:43A	.....	1:52	1:59	1:47	1:55	2:08	.....	6:52	6:58	7:04	7:14	7:19	7:29
.....	2:12	2:19	2:29	2:15	2:25	2:38	.....	7:33	7:39	7:45	7:55	8:00	8:10
.....	2:39	2:46	2:56	2:42	2:52	.....	3:05	8:14	8:19	8:25	8:36	8:41	8:51
3:07	.....	3:16	3:26	3:10	3:20	3:34	.....	8:55	9:00	9:06	9:16	9:21	9:31
.....	3:38	3:45	3:55	3:30	3:40	3:55	.....	9:35	9:40	9:46	9:56	10:01	10:11
.....	4:00	4:07	4:17	3:42	3:52	.....	4:09	10:16	10:21	10:27	10:38	10:43	10:53
4:18	.....	4:27	4:37	4:00	4:10	4:25	.....	10:57	11:02	11:08	11:19	11:24	11:34
.....	4:34	4:45	4:55	4:20	4:30	4:44	.....	11:38	11:43	11:49	11:57	12:02A	12:12A
.....	4:52	5:03	5:13	4:35	4:45	4:59	.....	12:16A	12:20A	12:26A	12:35A	12:40	12:48
.....	5:07	5:18	5:28	4:43	4:53	.....	5:10	12:54	12:58	1:04	w 1:13	1:18	1:26
5:15	.....	5:27	5:37	4:53	5:03	5:17	.....	1:31	1:35	1:41	.....	.....	.....
.....	5:23	5:34	5:44	5:03	5:13	5:27	.....	.....	.....	.....	.....	.....	.....
.....	5:33	5:44	5:54	5:13	5:23	.....	5:40	.....	.....	.....	.....	.....	.....
5:45	.....	5:57	6:04	5:25	5:35	5:49	.....	.....	.....	.....	.....	.....	.....
.....	5:55	6:04	6:10	5:40	5:50	6:04	.....	.....	.....	.....	.....	.....	.....
.....	6:10	6:17	6:23	5:49	5:59	.....	6:16	.....	.....	.....	.....	.....	.....
6:21	.....	6:31	6:37	5:58	6:06	6:20	.....	.....	.....	.....	.....	.....	.....
.....	6:30	6:37	6:43	6:06	6:14	6:28	.....	.....	.....	.....	.....	.....	.....
.....	6:35	6:42	6:48	6:20	6:28	6:36	.....	.....	.....	.....	.....	.....	.....
.....	6:50	6:57	7:03	6:30	6:38	.....	6:49	.....	.....	.....	.....	.....	.....
7:02	.....	7:10	7:16	6:50	6:58	7:06	.....	.....	.....	.....	.....	.....	.....
.....	7:16	7:21	7:27	7:10	7:18	7:26	.....	.....	.....	.....	.....	.....	.....
.....	7:33	7:38	7:44	7:39	7:47	7:55	.....	.....	.....	.....	.....	.....	.....
.....	8:01	8:06	8:12	8:08	8:16	8:21	.....	.....	.....	.....	.....	.....	.....
.....	8:30	8:35	8:41	8:36	8:43	8:48	.....	.....	.....	.....	.....	.....	.....
.....	8:54	8:59	9:05	8:58	9:05	9:10	.....	.....	.....	.....	.....	.....	.....
.....	9:14	9:19	9:25	9:36	9:43	9:48	.....	.....	.....	.....	.....	.....	.....
.....	9:53	9:58	10:04	10:13	10:20	10:25	.....	.....	.....	.....	.....	.....	.....
.....	10:30	10:34	10:40	10:50	10:57	11:02	.....	.....	.....	.....	.....	.....	.....
.....	11:07	11:11	11:17	11:27	11:34	11:39	.....	.....	.....	.....	.....	.....	.....
.....	11:44	11:48	11:54	12:04A	12:11A	12:16A	.....	.....	.....	.....	.....	.....	.....
.....	12:19A	12:23A	12:29A	12:36	12:43	12:48	.....	.....	.....	.....	.....	.....	.....
.....	12:53	12:57	1:03	12:36	12:43	12:48	.....	.....	.....	.....	.....	.....	.....
.....	1:30	1:34	1:40	w 1:11	1:18	1:23	.....	.....	.....	.....	.....	.....	.....

Route 89
Clarendon Hill or Davis Square-
Sullivan Square Station

- a - Through service to Haymarket Station from Clarendon Hill.
- b - Leaves from Haymarket Station at 5:48 am to Clarendon Hill
- w - Waits for last train to arrive at Sullivan Station.

89 Inbound		89 Outbound		89 Inbound		89 Outbound	
Leave Davis Square	Arrive Winter Hill	Arrive Sullivan Station	Leave Sullivan Station	Arrive Winter Hill	Arrive Davis Square	Leave Sullivan Station	Arrive Winter Hill
a 5:15A	5:24A	5:39A	b 5:58A	6:03A	6:12A	6:25	6:29
6:25	6:29	6:35	6:10	6:15	6:23	6:58	7:02
6:58	7:02	7:08	6:42	6:47	6:55	7:33	7:37
7:33	7:37	7:43	7:17	7:22	7:30	8:09	8:13
8:09	8:13	8:19	7:52	7:57	8:05	8:44	8:48
8:44	8:48	8:54	8:28	8:33	8:41	9:22	9:26
9:22	9:26	9:33	9:03	9:08	9:16	10:00	10:05
10:00	10:05	10:12	9:41	9:49	9:57	10:39	10:44
10:39	10:44	10:51	10:19	10:27	10:35	11:20	11:25
11:20	11:25	11:32	11:01	11:09	11:17	.....	.....
.....	.....	.....	11:42	11:50	11:58	.....	.....
12:02P	12:07P	12:14P	12:25P	12:33P	12:41P	12:45	12:50
12:45	12:50	12:57	1:08	1:16	1:24	1:27	1:32
1:27	1:32	1:39	1:52	2:00	2:08	2:14	2:19
2:14	2:19	2:26	2:39	2:47	2:55	3:01	3:08
3:01	3:08	3:15	3:24	3:32	3:40	3:45	3:52
3:45	3:52	3:59	4:08	4:16	4:24	4:29	4:36
4:29	4:36	4:43	4:52	5:00	5:08	5:14	5:21
5:14	5:21	5:28	5:38	5:46	5:54	5:57	6:04
5:57	6:04	6:10	6:22	6:27	6:35	6:41	6:47
6:41	6:47	6:53	7:03	7:08	7:15	7:22	7:28
7:22	7:28	7:34	7:44	7:49	7:56	8:03	8:09
8:03	8:09	8:15	8:25	8:30	8:37	8:44	8:50
8:44	8:50	8:56	9:06	9:11	9:18	9:25	9:31
9:25	9:31	9:37	9:47	9:52	9:59	10:06	10:11
10:06	10:11	10:17	10:27	10:32	10:39	10:46	10:51
10:46	10:51	10:57	11:06	11:11	11:18	11:25	11:30
11:25	11:30	11:36	11:45	11:50	11:57	12:04A	12:07A
12:04A	12:07A	12:13A	12:24A	12:29A	12:36A	12:42	12:45
12:42	12:45	12:51	w 1:00	1:05	1:12	1:18	1:21
1:18	1:21	1:27	.....	.....	.....	.....	.....

All buses are accessible to persons with disabilities

Winter 2021 Holidays
12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

Schedule Change

94

Effective December 20, 2020

Medford Square- Davis Square

Serving

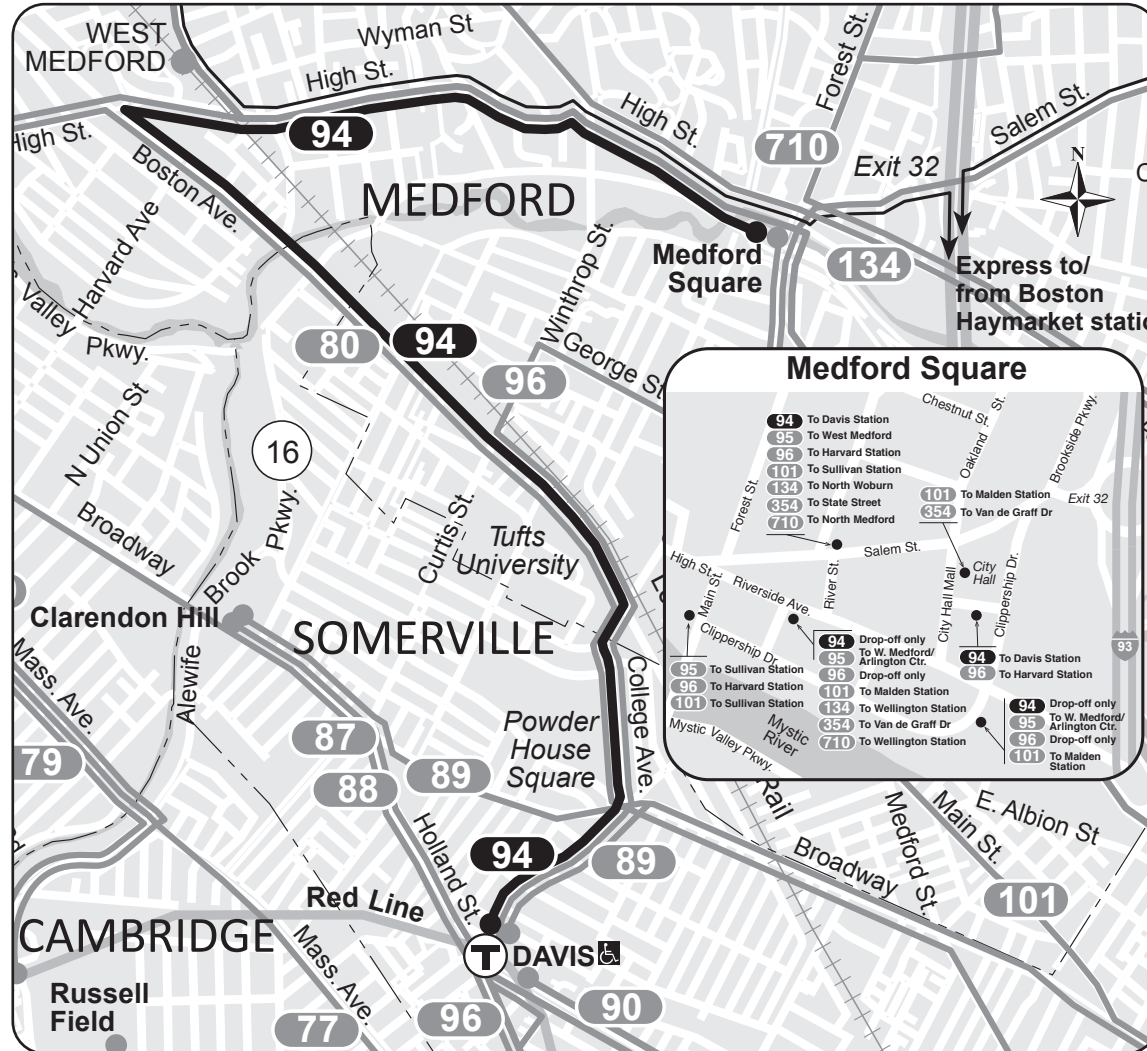
- Medford City Hall
- Winthrop Circle
- West Medford
- Medford Hillside
- Tufts University
- Powder House Square
- Red Line



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Massachusetts Department of Transportation

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Route 94 Medford Square - Davis Square




94 Weekday					
Inbound			Outbound		
Leave Medford Square	Arrive Powder House Sq.	Arrive Davis Square	Leave Davis Square	Arrive Powder House Sq.	Arrive Medford Square
5:20A	5:32A	5:38A	5:40A	5:42A	5:54A
5:45	5:57	6:04	6:15	6:18	6:37
6:15	6:36	6:43	6:50	6:53	7:12
6:40	7:02	7:09	a 7:05	7:07	7:46
7:15	7:42	7:49	7:50	7:54	8:14
7:35	8:02	8:09	8:20	8:24	8:44
7:55	8:19	8:26	8:45	8:49	9:08
8:25	8:49	8:56	9:05	9:08	9:26
8:50	9:14	9:21	9:25	9:28	9:46
9:20	9:46	9:55	10:00	10:03	10:21
9:55	10:26	10:35	10:45	10:48	11:06
11:15	11:34	11:42	11:50	11:53	12:11P
12:20P	12:45P	12:53P	1:10P	1:13P	1:33
1:40	2:10	2:18	2:25	2:28	2:48
3:00	3:30	3:38	3:45	3:48	4:14
3:35	4:05	4:13	4:20	4:23	4:49
4:00	4:30	4:38	4:45	4:48	5:14
4:25	4:55	5:03	5:10	5:13	5:39
5:00	5:20	5:27	5:35	5:38	6:04
5:20	5:40	5:47	6:00	6:03	6:29
5:45	6:05	6:12	6:25	6:28	6:54
6:10	6:30	6:37	6:50	6:53	7:15
6:40	7:00	7:07	7:15	7:17	7:37
7:10	7:30	7:37	7:40	7:42	8:02
7:40	8:01	8:08	8:15	8:17	8:36
8:15	8:36	8:43	8:50	8:52	9:10
8:50	9:08	9:14	9:20	9:22	9:40
9:45	10:00	10:06	10:10	10:12	10:30
10:35	10:50	10:56	11:00	11:02	11:14
11:20	11:35	11:41	11:50	11:52	12:04A
12:10A	12:25A	12:31A	12:45A	12:47A	12:59

a - Via Medford High School

94 Saturday					
Inbound			Outbound		
Leave Medford Square	Arrive Powder House Sq.	Arrive Davis Square	Leave Davis Square	Arrive Powder House Sq.	Arrive Medford Square
6:45A	6:55A	7:01A	7:10A	7:11A	7:25A
7:35	7:45	7:51	8:00	8:01	8:15
8:27	8:37	8:43	8:57	8:58	9:16
9:22	9:35	9:43	10:02	10:03	10:21
10:30	10:43	10:51	11:13	11:14	11:32
11:25	11:39	11:48	11:55	11:56	12:14P
12:13P	12:27P	12:36P	12:48P	12:49P	1:07
1:00	1:13	1:22	1:39	1:40	1:58
1:47	2:00	2:09	2:20	2:21	2:39
2:37	2:50	2:59	3:13	3:14	3:32
3:26	3:39	3:48	3:57	3:58	4:16
4:06	4:19	4:28	4:40	4:41	4:59
4:58	5:10	5:19	5:28	5:29	5:47
5:46	5:58	6:06	6:25	6:26	6:42
6:40	6:51	6:59	7:20	7:21	7:36
7:40	7:51	7:59	8:23	8:24	8:39
8:50	9:01	9:09	9:27	9:28	9:43
9:47	9:58	10:04	10:20	10:21	10:36
10:50	10:59	11:05	11:21	11:22	11:37
11:25	11:34	11:40	11:46	11:47	12:02A
12:14A	12:23A	12:28A	12:35A	12:36A	12:51

NOTE: For additional service between Medford Square and Davis Square Station please refer to Route 96 schedule card.

 All buses are accessible to persons with disabilities

**Route 94
Medford Square-Davis Square**

94 Sunday					
Inbound			Outbound		
Leave Medford Square	Arrive Powder House Sq.	Arrive Davis Square	Leave Davis Square	Arrive Powder House Sq.	Arrive Medford Square
6:45A	6:55A	6:59A	7:03A	7:04A	7:18A
7:23	7:32	7:39	7:43	7:44	7:58
8:03	8:13	8:20	8:28	8:29	8:43
9:03	9:14	9:22	9:28	9:29	9:44
10:03	10:14	10:24	10:28	10:29	10:44
11:03	11:14	11:24	11:40	11:41	11:57
12:13P	12:24P	12:34P	12:50P	12:51P	1:06P
1:23	1:35	1:43	2:00	2:01	2:17
2:33	2:46	2:54	3:10	3:11	3:27
3:43	3:52	4:01	4:20	4:21	4:37
4:53	5:02	5:11	5:30	5:31	5:47
6:03	6:12	6:21	6:30	6:31	6:47
7:03	7:12	7:21	7:30	7:31	7:47
8:05	8:14	8:22	8:31	8:32	8:46
9:15	9:26	9:31	9:35	9:36	9:50
10:15	10:24	10:29	10:35	10:36	10:50
11:15	11:24	11:29	11:35	11:36	11:50
12:20A	12:29A	12:34A	12:40A	12:41A	12:52A

Fare	Local Bus	Bus + Bus	Subway	Bus + Subway
CharlieCard	\$1.70	\$1.70	\$2.40	\$2.40
CharlieTicket	\$1.70	\$1.70	\$2.40	\$4.10*
Cash-on-Board	\$1.70	\$3.40	\$2.40	\$4.10
Student/Youth**	\$0.85	\$0.85	\$1.10	\$1.10
Senior/TAP***	\$0.85	\$0.85	\$1.10	\$1.10

FREE FARES: Children 11 and under ride free when accompanied by a paying customer; Blind Access CharlieCard holders ride free and if using a guide, the guide rides free.
 * Transfers Subway to Silver Line SL4 or SL5 pay \$2.40
 ** Requires Student CharlieCard or Youth CharlieCard. Student CharlieCards available to students through participating middle and high schools. Youth CharlieCards available through community partners across Greater Boston.
 *** Requires Senior/TAP CharlieCard, available to Medicare cardholders, seniors 65+, and persons with disabilities.

Winter 2021 Holidays
 12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

Schedule Change

96

Effective December 20, 2020

Medford Square-Harvard Station

Serving

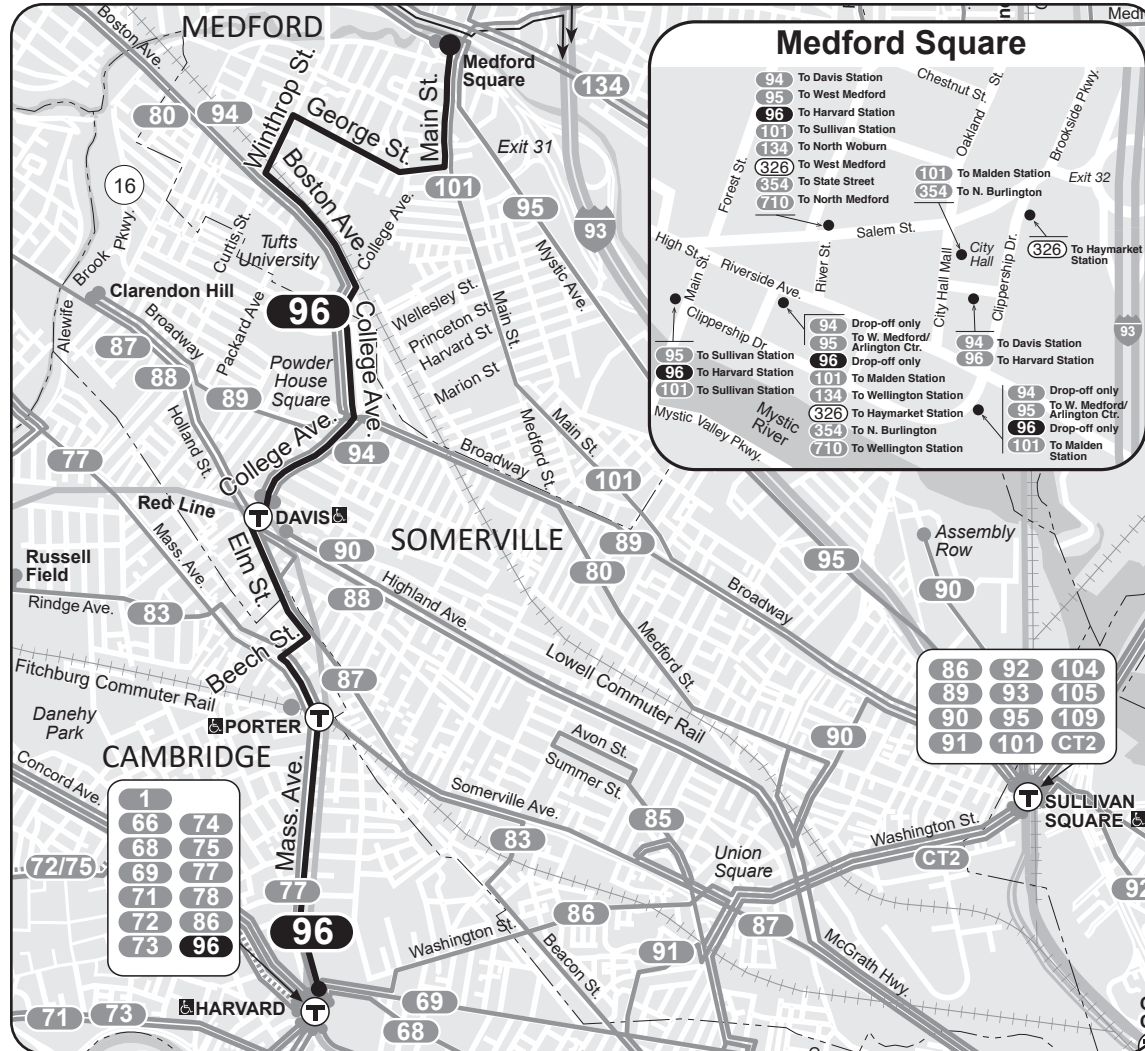
- Medford City Hall
- Medford Hillside
- Tufts University
- Powder House Square
- Davis Station
- Porter Station
- Harvard University
- Eliot Street
- Red Line
- Fitchburg Commuter Rail



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Massachusetts Department of Transportation

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Route 96 Medford Square - Harvard Station



96 Weekday					
Inbound			Outbound		
Leave Medford Sq.	Arrive Davis Sq.	Arrive Harvard Station	Leave Harvard Station	Lv/Arrive Davis Sq.	Arrive Medford Square
5:35A	5:45A	5:54A	6:00A	6:11A	6:26A
6:00	6:16	6:27	6:30	6:41	6:56
6:20	6:36	6:47	6:50	7:01	7:16
6:30	6:46	6:57	7:10	7:21	7:36
7:00	7:20	7:35	.....	7:40	7:55
a 7:10	7:26	.....	7:40	7:52	8:09
7:20	7:40	7:55	.....	8:03	8:18
a 7:30	7:48	.....	8:00	8:12	8:29
7:40	8:00	8:15	8:25	8:37	8:54
a 7:50	8:08	.....	8:45	8:57	9:13
8:00	8:22	8:37	9:00	9:12	9:27
a 8:10	8:28	.....	9:30	9:42	9:57
8:15	8:37	8:52	10:10	10:22	10:37
a 8:30	8:48	.....	10:50	11:02	11:17
8:40	9:02	9:17	11:20	11:32	11:47
9:05	9:27	9:41			
9:35	9:57	10:10	12:05P	12:18P	12:34P
10:15	10:37	10:50	12:35	12:48	1:04
10:45	11:06	11:20	1:25	1:38	1:54
11:30	11:49	12:03P	1:55	2:08	2:24
			2:40	2:53	3:14
12:00N	12:19P	12:33	3:10	3:25	3:47
12:45	1:06	1:19	3:40	3:55	4:17
1:15	1:36	1:49	4:05	4:20	4:42
2:05	2:26	2:39	4:30	4:45	5:07
2:35	2:56	3:09	4:50	5:05	5:27
3:25	3:46	3:59	5:05	5:20	5:42
4:10	4:31	4:44	5:30	5:45	6:07
4:30	4:51	5:02	5:55	6:10	6:32
4:50	5:10	5:22	6:15	6:30	6:52
5:15	5:34	5:46	6:35	6:50	7:11
5:35	5:54	6:06	7:00	7:12	7:30
5:55	6:14	6:26	7:40	7:52	8:10
6:20	6:39	6:51	8:15	8:27	8:40
7:00	7:19	7:31	8:55	9:05	9:18
7:40	7:55	8:04	9:35	9:45	9:58
8:25	8:40	8:49	10:15	10:25	10:38
9:05	9:18	9:27	10:35	10:45	10:58
9:25	9:38	9:47	11:20	11:27	11:37
10:05	10:18	10:27	12:10A	12:17A	12:27A
10:50	11:03	11:12	w 1:05	1:12	1:22
11:45	11:58	12:07A			
12:30A	12:43A	12:52			

a - To Davis Square Station ONLY.
w - Waits for last train to arrive at Harvard Station.

96 Saturday					
Inbound			Outbound		
Leave Medford Sq.	Arrive Davis Sq.	Arrive Harvard Station	Leave Harvard Station	Arrive Davis Sq.	Arrive Medford Square
5:20A	5:27A	5:37A	5:43A	5:50A	6:03A
6:11	6:18	6:28	6:34	6:41	6:54
7:02	7:09	7:19	7:25	7:33	7:49
7:56	8:03	8:13	8:21	8:29	8:43
8:51	8:58	9:11	9:19	9:28	9:44
9:57	10:07	10:22	10:31	10:42	11:02
10:58	11:11	11:25	11:37	11:48	12:06P
11:38	11:51	12:05P			
			12:17P	12:29P	12:48
12:25P	12:38P	12:52	1:04	1:16	1:35
1:16	1:29	1:43	1:55	2:06	2:25
2:04	2:18	2:33	2:44	2:55	3:14
2:44	2:58	3:13	3:24	3:35	3:54
3:38	3:52	4:07	4:18	4:29	4:46
4:23	4:37	4:52	5:04	5:15	5:32
5:13	5:26	5:41	5:52	6:03	6:20
6:10	6:23	6:38	6:49	7:00	7:17
7:05	7:18	7:33	7:43	7:54	8:11
8:16	8:24	8:38	8:48	8:59	9:16
9:21	9:29	9:43	9:53	10:03	10:18
10:22	10:29	10:40	10:47	10:56	11:11
11:45	11:52	12:03A	12:10A	12:18A	12:32A
12:40A	12:47A	12:58	w 1:10	1:18	1:32

NOTE: For additional service between Medford Square and Davis Square please refer to Route 94 schedule card.

All buses are accessible to persons with disabilities

Route 96 Medford Square-Harvard Station

96 Sunday					
Inbound			Outbound		
Leave Medford Sq.	Arrive Davis Sq.	Arrive Harvard Station	Leave Harvard Station	Arrive Davis Sq.	Arrive Medford Square
6:05A	6:13A	6:20A	6:30A	6:37A	6:50A
6:55	7:03	7:10	7:20	7:27	7:40
7:45	7:53	8:00	8:10	8:17	8:30
8:35	8:43	8:50	9:00	9:10	9:25
9:25	9:34	9:43	9:55	10:06	10:19
10:25	10:36	10:48	10:55	11:07	11:22
11:25	11:37	11:51			
			12:00N	12:12P	12:27P
12:35P	12:47P	1:01P	1:10	1:22	1:37
1:45	1:57	2:11	2:20	2:32	2:47
2:55	3:06	3:20	3:30	3:42	3:57
4:05	4:16	4:30	4:40	4:52	5:08
5:15	5:26	5:40	5:50	6:02	6:18
6:25	6:35	6:47	6:50	7:02	7:18
7:25	7:34	7:46	7:50	8:01	8:14
8:25	8:34	8:44	8:55	9:06	9:19
9:25	9:32	9:42	9:55	10:05	10:17
10:25	10:32	10:42	10:55	11:05	11:17
11:25	11:31	11:40	11:55	12:03A	12:14A
12:30A	12:36A	12:45A	w1:09A	1:16	1:26



Fare	Local Bus	Bus + Bus	Subway	Bus + Subway
CharlieCard	\$1.70	\$1.70	\$2.40	\$2.40
CharlieTicket	\$1.70	\$1.70	\$2.40	\$4.10*
Cash-on-Board	\$1.70	\$3.40	\$2.40	\$4.10
Student/Youth**	\$0.85	\$0.85	\$1.10	\$1.10
Senior/TAP***	\$0.85	\$0.85	\$1.10	\$1.10

FREE FARES: Children 11 and under ride free when accompanied by a paying customer; Blind Access CharlieCard holders ride free and if using a guide, the guide rides free.
* Transfers Subway to Silver Line SL4 or SL5 pay \$2.40
** Requires Student CharlieCard or Youth CharlieCard. Student CharlieCards available to students through participating middle and high schools. Youth CharlieCards available through community partners across Greater Boston.
*** Requires Senior/TAP CharlieCard, available to Medicare cardholders, seniors 65+, and persons with disabilities.

Winter 2021 Holidays
12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

APPENDIX C.3 – RAPID RAIL TRANSIT

T Fares				
PER TRIP	Local Bus	Bus + Bus	Rapid Transit	Bus + Rapid Transit
CharlieCard	\$1.70	\$1.70	\$2.40	\$2.40
CharlieTicket	\$1.70	\$1.70	\$2.40	\$4.10
Cash-on-Board	\$1.70	\$3.40	\$2.40	\$4.10
Student/Youth**	\$0.85	\$0.85	\$1.10	\$1.10
Senior/TAP***	\$0.85	\$0.85	\$1.10	\$1.10
UNLIMITED TRIP PASSES				
1-Day	\$12.75	\$12.75	\$12.75	\$12.75
7-Day	\$22.50	\$22.50	\$22.50	\$22.50
Monthly	\$55.00	\$55.00	\$90.00	\$90.00

FREE FARES: Children 11 and under ride free when accompanied by a paying customer; Blind Access CharlieCard holders ride free and if using a guide, the guide rides free.

- * Transfers Subway to Silver Line SL4 or SL5 pay \$2.40
- ** Requires Student CharlieCard or Youth CharlieCard.

Student CharlieCards available to students through participating middle and high schools. Youth CharlieCards available through community partners across Greater Boston.

*** Requires Senior/TAP CharlieCard, available to Medicare cardholders, seniors 65+ and persons with disabilities.

TRANSFERS

If paying with a CharlieTicket or CharlieCard, discounted transfers that are available are automatic — use the same ticket or card throughout your trip. If paying with cash onboard a vehicle, free transfers are only allowed between subway lines and inside paid platform areas at gated stations.

SCHEDULES

Schedules are available at the subway stations that a route serves. All schedules available at: South Station, Park Street and Airport.

For real-time subway and bus tracking, download the Transit app on any smartphone.



Schedule Change

Rapid Transit

Effective December 20, 2020



T Massachusetts Bay Transportation Authority **massDOT**
Massachusetts Department of Transportation

Information 617-222-3200 • 1-800-392-6100
(TTY) 617-222-5146 • www.mbt.com

Rapid Transit Line	Weekday				Saturday			Sunday		
	First Trip	Peak	Off Peak	Last Trip	First Trip	Arriving Every	Last Trip	First Trip	Arriving Every	Last Trip
Red Line Alewife Braintree	5:24 AM 5:08 AM	9 mins	12-16 mins	12:23 AM 12:17 AM	5:24 AM 5:09 AM	12-16 mins	12:20 AM 12:17 AM	6:08AM 5:56AM	12-16 mins	12:20 AM 12:17 AM
Alewife Ashmont	5:16 AM 5:16 AM	9 mins	12-16 mins	w 12:30 AM w 12:30 AM	5:16 AM 5:16 AM	12-16 mins	w 12:27 AM w 12:30 AM	6:00AM 6:00AM	12-16 mins	w 12:27 AM w 12:30 AM
“M” Ashmont Mattapan	5:17 AM 5:05 AM	5 mins	8-12 Day 26 Late	w 1:05 AM 12:53 AM	5:15 AM 5:05 AM	8-12 Day 26 Early/Late	w 1:05 AM 12:53 AM	6:03AM 5:51AM	8-12 Day 26 Early/Late	w 1:05 AM 12:55 AM
Blue Line Wonderland Orient Heights Bowdoin	5:13 AM 5:14 AM 5:30 AM	5 mins	9-13 mins	12:28 AM 12:33 AM w 1:00 AM	5:25 AM 5:13 AM 5:29 AM	9-13 mins	12:28 AM 12:33 AM w 1:00 AM	5:58AM 6:03AM 6:21AM	9-13 mins	12:28 AM 12:33 AM w 1:00 AM
Orange Line Oak Grove Forest Hills	5:16 AM 5:16 AM	7 mins	9-11 mins	w 12:30 AM w 12:28 AM	5:16 AM 5:16 AM	9-11 mins	w 12:30 AM w 12:28 AM	6:00AM 6:00AM	9-11 mins	w 12:30 AM w 12:28 AM
Green Line* B Boston College Park Street	5:01 AM 5:45 AM	6 mins	7-10 mins	12:10 AM w 12:52 AM	4:45 AM ² 5:41 AM	7-8 mins	12:09 AM w 12:52 AM	5:20AM ² 6:15AM	9 mins	12:10 AM w 12:52 AM
C Cleveland Circle North Station	4:57 AM ¹ 5:48 AM	6-8 mins	9-11 mins	12:07 AM w 12:46 AM	4:50 AM ² 5:30 AM	9-10 mins	12:10 AM w 12:46 AM	5:30AM ² 6:06AM	10 mins	12:10 AM w 12:46 AM
D Riverside Government Ctr.	4:56 AM 5:45 AM	6-7 mins	8-11 mins	12:02 AM w 12:49 AM	4:55 AM 5:41 AM	8-9 mins	12:02 AM w 12:49 AM	5:25AM 6:12AM	11-12 mins	12:05 AM w 12:49 AM
E Lechmere* Heath Street	5:00 AM ⁴ 5:44 AM	6-7 mins	8-10 mins	12:35 AM 12:47 AM ³	5:00 AM 5:40 AM	10 mins	12:34 AM 12:47 AM ³	5:36AM 6:16AM	12 mins	12:34 AM 12:47 AM ³
Silver Line SL1 Logan Airport South Station	5:38 AM 5:37 AM	7-12 mins	10-12 mins	f 1:06 AM w 12:49 AM	5:48 AM 5:45 AM	10-12 mins	1:15 AM w 12:59 AM	5:50AM 6:12AM	10-12 mins	f 1:12 AM w 1:00 AM
SL2 Design Center South Station	6:18 AM 5:54 AM	6 mins	14-16 mins	12:37 AM 12:51 AM	6:03 AM 5:47 AM	14-16 mins	12:35 AM 12:45 AM	6:51AM 6:35AM	14-16 mins	12:51 AM 12:36 AM
SL3 Chelsea Station South Station	4:55 AM 4:20 AM	6-11 mins	8-13 mins	f 1:05 AM w 12:35 AM	5:30 AM 4:56 AM	8-13 mins	1:22 AM w 12:55 AM	6:26AM 5:53AM	8-13 mins	f 1:25 AM w 12:55 AM
SL4 Nubian Station South Station	5:20 AM 5:38 AM	6-11 mins	6-11 mins	12:20 AM 12:37 AM	5:23 AM 5:40 AM	13-20 mins	12:20 AM 12:40 AM	6:02AM 6:20AM	13-20 mins	12:20 AM 12:40 AM
SL5 Nubian Station Downtown Xing	5:15 AM 5:32 AM	11-14 mins	13-20 mins	12:51 AM w 1:07 AM	5:19 AM 5:34 AM	6-11 mins	12:43 AM w 1:00 AM	6:00AM 6:16AM	6-11 mins	12:25 AM w 12:47 AM

Peak Service:
Weekdays 7 AM - 9 AM, 4 PM - 6:30 PM

Green Line Notes:

New and ongoing infrastructure projects may result in diversions on some branches at various times.

See **GL service changes at mbta.com/GLwork**

View service alerts at **mbta.com/alerts**

* E trains start/end at North Station for Green Line Extension work – shuttles provided between North Station and Lechmere.

More: **mbta.com/GLEwork**

1 - The first two C train AM northbound trips run through to Lechmere Station on weekdays.

2 - The first B and second C train AM northbound trips run through to Lechmere Station on weekends.

3 - On weekdays the 12:27 AM trip (weekends the 12:32 AM trip) from Heath St is the last connecting train to other lines downtown. The 12:37AM and 12:47AM trips (weekends the 12:47AM trip) from Heath St. runs in service to Lechmere with no guaranteed connections.

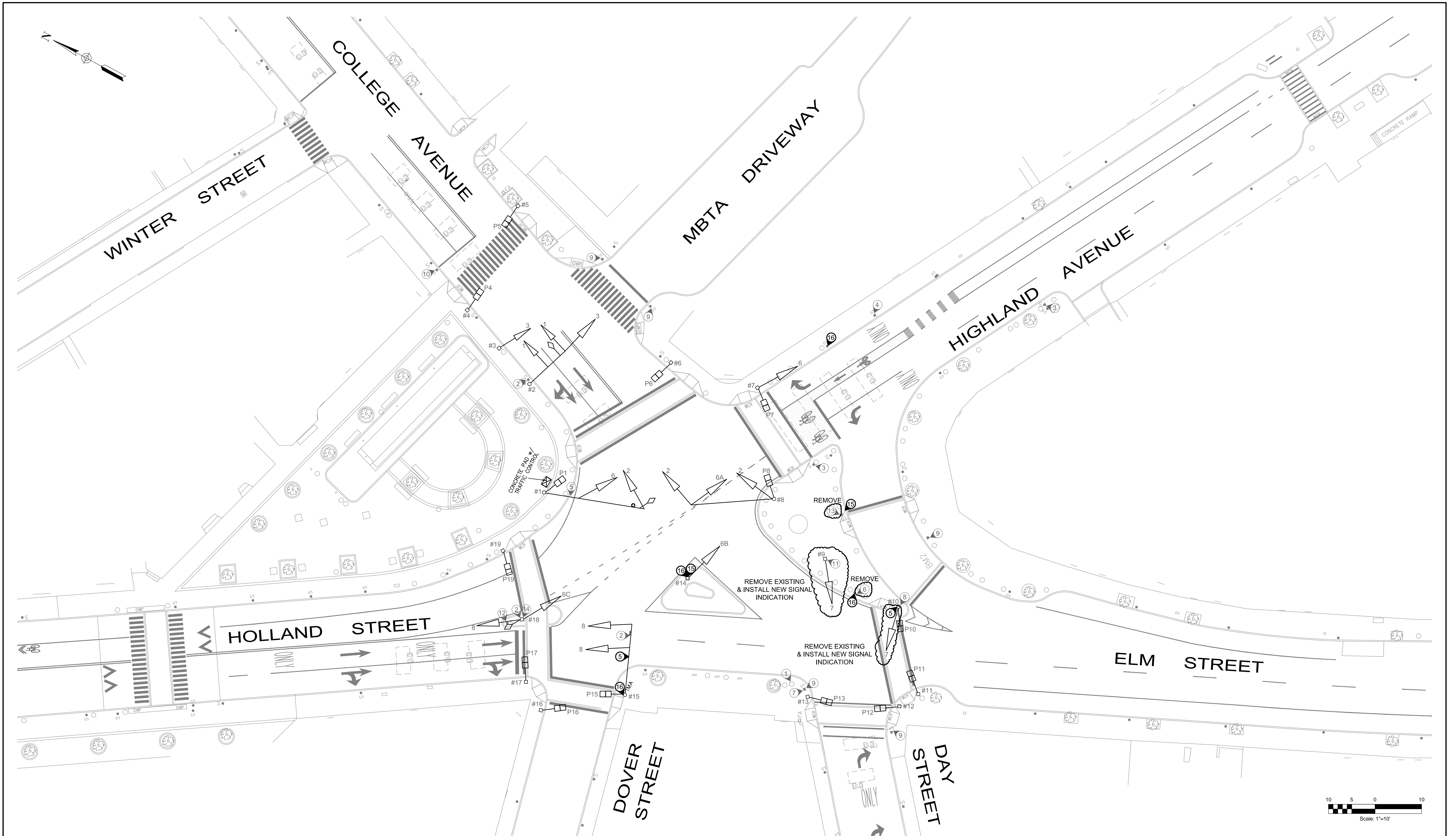
4 - Early morning service from Lechmere to Riverside departs Lechmere at 5:00 AM.

f - After exiting Ted Williams Tunnel bus will only service World Trade Center and South Station stops.

w - Last trips wait at some stations, primarily in the Downtown area, for connecting service. Departure times are approximate.

Winter 2021 Holidays
12/25/20 & 1/1/21 Sun; 1/18/21 & 2/15/21: Sat

APPENDIX D – SIGNAL TIMING DATA



2 Oliver Street, Suite 305, Boston, MA 02109
 PHONE: (617) 619-9910
 www.tooledesign.com

NO.	DATE	REVISIONS	BY



DESIGNED: J. BOUDART
 DRAWN: C. KLICK
 CHECKED: E. GUIDOBONI
 DATE: May 16, 2018

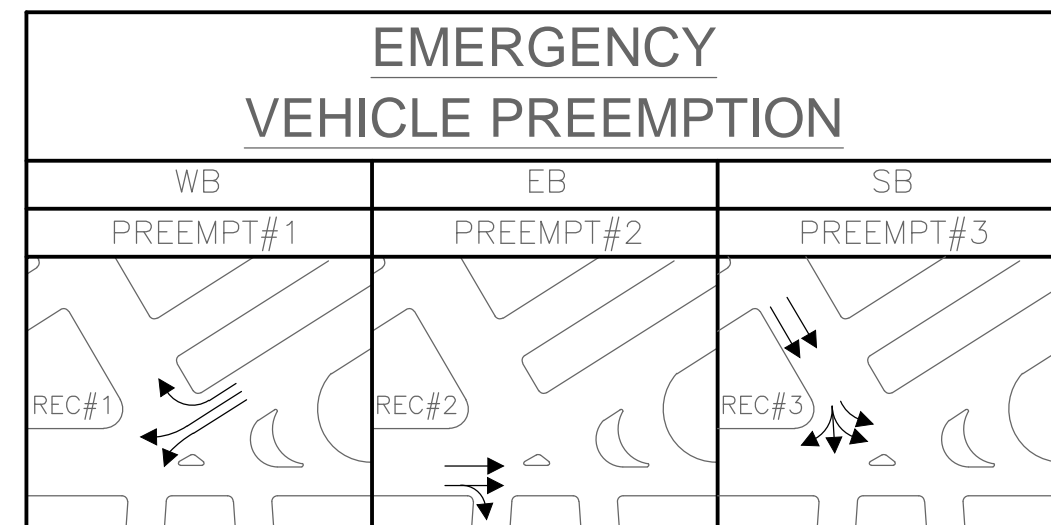
Signal Plan
 Phase 1 Design

Davis Square
 City of Somerville
 Commonwealth of Massachusetts

SHEET
SP-1
 Sheet 1 of 3

TRAFFIC SIGNAL SYMBOLS

- EXISTING SIGNAL POST
- ◀ EXISTING SIGNAL HEAD
- ◻ EXISTING PEDESTRIAN SIGNAL HEAD
- ◇ EXISTING OPTICOM DETECTOR
- EXISTING OPTICOM STROBE
- ☒ EXISTING CONTROLLER CABINET
- EXISTING MAST ARM (LENGTH VARIES)
- EXISTING LOOP (5' x VARIES)



SIGN SUMMARY

SIGN ID	NAME	DESCRIPTION	QUANTITY
①	R3-1		1
②	R3-2		3
③	R3-7L		2
④	R3-7R		1
⑤	R10-11b		1 + 2
⑥			1
⑦	R3-5R		1
⑧	R1-2		1
⑨	R5-1		5
⑩	R10-6		1
⑪	R6-2		1
⑫	R4-7		1
⑬			1
⑭	R10-12		1
⑮	R10-15L		2
⑯	R10-15R		3

REMOVE

REMOVE

MAJOR ITEMS LIST

QUANTITY	DESCRIPTION
1	TRAFFIC CONTROLLER & CABINET (McCAIN ATC eX NEMA CONTROLLER)
1	SERVICE CONNECTION (OVERHEAD FROM UTILITY POLE)
1	20' MAST ARM ASSEMBLY, BASE & FDN.
1	30' MAST ARM ASSEMBLY, BASE & FDN.
1	35' MAST ARM ASSEMBLY, BASE & FDN.
1	45' MAST ARM ASSEMBLY, BASE & FDN.
9	8' SIGNAL POST, BASE & FDN.
6	10' SIGNAL POST, BASE & FDN.
5 + 2	SIGNAL HEAD, 3 SECTION CIRCULAR
2	SIGNAL HEAD, 3 SECTION CIRCULAR WITH GREEN ARROW
2	SIGNAL HEAD, 4 SECTION
1	SIGNAL HEAD, 5 SECTION
3	12" SINGLE SECTION PEDESTRIAN HOUSING GRAPHIC LED
5	12" DOUBLE SECTION PEDESTRIAN HOUSING GRAPHIC LED
3	12" DOUBLE SECTION PEDESTRIAN HOUSING GRAPHIC LED WITH COUNTDOWN TIMER
3	16" SINGLE SECTION PEDESTRIAN HOUSING GRAPHIC LED WITH COUNTDOWN TIMER
14	PEDESTRIAN PUSHBUTTON INTEGRATED SIGN & SADDLE
17	ROADWAY VEHICLE LOOP DETECTOR (QUADRUPLE TYPE)
6	DUAL CHANNEL LOOP DETECTOR AMPLIFIER INCL. 2 SPARES
14	PULL BOX 12"X12"
3	UNIDIRECTIONAL SINGLE CHANNEL OPTICAL DETECTOR (RECEIVER)
2	PREEMPTION 2-CHANNEL PHASE SELECTOR
1	PREEMPTION CONFIRMATION STROBE (CLEAR)

REMOVE

NO.	DATE	REVISIONS	BY



DESIGNED: J. BOUDART
 DRAWN: C. KLICK
 CHECKED: E. GUIDOBONI
 DATE: May 16, 2018

Signal Plan
 Phase 1 Design
Davis Square
 City of Somerville
 Commonwealth of Massachusetts

SHEET
SP-2
 Sheet 2 of 3

APPENDIX E – TRIP GENERATION

MEANS OF TRANSPORTATION TO WORK

TABLE ID: B08301
 SURVEY/PROGRAM: American Community Survey
 PRODUCT: ACS 5-Year Estimates Detailed Tables

Note: The table shown may have been modified by user selections. Some information may be missing.

	Census Tract 3509, Middlesex County, Massachusetts	
Label	Estimate	Margin of Error
Total:	3,042	±231
Car, truck, or van:	1,148	±195
Drove alone	1,076	±187
Carpooled:	72	±58
In 2-person carpool	63	±56
In 3-person carpool	0	±12
In 4-person carpool	0	±12
In 5- or 6-person carpool	0	±12
In 7-or-more-person carpool	9	±14
Public transportation (excluding taxicab):	1,446	±227
Bus or trolley bus	117	±64
Streetcar or trolley car	24	±29
Subway or elevated	1,272	±221
Railroad	33	±32
Ferryboat	0	±12
Taxicab	0	±12
Motorcycle	0	±12
Bicycle	155	±69
Walked	123	±56
Other means	0	±12
Worked at home	170	±70

DATA NOTES

TABLE ID: B08301

SURVEY/PROGRAM American Community Survey
VINTAGE 2018
DATASET ACSDT5Y2018
PRODUCT: ACS 5-Year Estimates Detailed Tables
FTP URL: None
API URL: Download the entire table at
<https://api.census.gov/data/2018/acs>

USER SELECTIONS

GEOS Census Tract 3509, Middlesex County,
Massachusetts

EXCLUDED COLUMNS

None

APPLIED FILTERS

None

APPLIED SORTING

None

WEB ADDRESS

<https://data.census.gov/cedsci/table?q=ACSDT1Y2019.B08301&text=B08301&g=1400000US25017350900&tid=ACSDT5Y2018.B08301&hidePreview=true>

APPENDIX F – INTERSECTION CAPACITY ANALYSIS

APPENDIX F.1 – 2020 EXISTING ANALYSIS

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	392	39	275	445	259	125	307	0	118	29		
Future Volume (vph)	392	39	275	445	259	125	307	0	118	29		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.91		0.10					0.60				
Frt	0.985			0.850	0.850	0.865		0.885				
Flt Protected			0.950				0.950	0.988				
Satd. Flow (prot)	3122	0	1736	1553	1568	1536	1649	807	0	0		
Flt Permitted			0.950				0.950	0.988				
Satd. Flow (perm)	3122	0	174	1553	1568	1536	1649	807	0	0		
Right Turn on Red		Yes			Yes	Yes				Yes		
Satd. Flow (RTOR)	185				291	362		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		298	298		31	82			59			
Peak Hour Factor	0.89	0.79	0.86	0.71	0.89	0.94	0.93	0.92	0.81	0.64		
Heavy Vehicles (%)	4%	0%	4%	4%	3%	7%	4%	2%	15%	39%		
Adj. Flow (vph)	440	49	320	627	291	133	330	0	146	45		
Shared Lane Traffic (%)							18%					
Lane Group Flow (vph)	489	0	320	627	291	133	271	250	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		13.0			13.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	10.0	5.0	5.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		36.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.36	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.69		0.93	0.96	0.28	0.23	0.48	0.68				
Control Delay	29.0		68.7	56.7	1.4	0.9	3.3	16.8				
Queue Delay	0.0		0.0	0.0	0.0	0.0	10.6	65.7				
Total Delay	29.0		68.7	56.7	1.5	0.9	13.9	82.5				
LOS	C		E	E	A	A	B	F				
Approach Delay	29.0		46.8					46.8				
Approach LOS	C		D					D				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.96
Intersection Signal Delay:	40.6
Intersection LOS:	D
Intersection Capacity Utilization	62.5%
ICU Level of Service	B
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	0	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	489	320	627	291	133	271	250
v/c Ratio	0.69	0.93	0.96	0.28	0.23	0.48	0.68
Control Delay	29.0	68.7	56.7	1.4	0.9	3.3	16.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	10.6	65.7
Total Delay	29.0	68.7	56.7	1.5	0.9	13.9	82.5
Queue Length 50th (ft)	95	180	380	0	0	8	91
Queue Length 95th (ft)	149	#321	374	22	0	m10	m98
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	713	343	652	1031	573	560	368
Starvation Cap Reductn	0	0	0	0	0	255	204
Spillback Cap Reductn	0	0	0	53	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.69	0.93	0.96	0.30	0.23	0.89	1.52

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↶	↶	↶	↵	↷		
Traffic Volume (vph)	392	39	275	445	259	125	307	0	118	29
Future Volume (vph)	392	39	275	445	259	125	307	0	118	29
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.91		1.00	1.00	1.00	1.00	1.00	0.60		
Flpb, ped/bikes	1.00		0.15	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.89		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	3122		256	1553	1568	1536	1649	808		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	3122		256	1553	1568	1536	1649	808		
Peak-hour factor, PHF	0.89	0.79	0.86	0.71	0.89	0.94	0.93	0.92	0.81	0.64
Adj. Flow (vph)	440	49	320	627	291	133	330	0	146	45
RTOR Reduction (vph)	152	0	0	0	146	109	0	97	0	0
Lane Group Flow (vph)	337	0	320	627	146	24	271	153	0	0
Confl. Peds. (#/hr)		298	298		31	82			59	
Heavy Vehicles (%)	4%	0%	4%	4%	3%	7%	4%	2%	15%	39%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	561		107	652	784	276	527	258		
v/s Ratio Prot	0.11		c0.54	0.40	0.09	0.02	0.16	c0.19		
v/s Ratio Perm			0.71							
v/c Ratio	0.60		2.99	0.96	0.19	0.09	0.51	0.59		
Uniform Delay, d1	37.7		35.2	28.2	13.8	34.2	27.7	28.6		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.08	0.98		
Incremental Delay, d2	4.7		920.4	27.0	0.5	0.6	1.4	4.0		
Delay (s)	42.4		955.6	55.2	14.3	34.8	3.6	31.8		
Level of Service	D		F	E	B	C	A	C		
Approach Delay (s)	42.4		278.3					17.2		
Approach LOS	D		F					B		
Intersection Summary										
HCM 2000 Control Delay			159.1			HCM 2000 Level of Service			F	
HCM 2000 Volume to Capacity ratio			1.95							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)		26.0		
Intersection Capacity Utilization			62.5%			ICU Level of Service			B	
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.94	2.17	2.33	2.36	1.55	2.22
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	791	76
Future Volume (vph)	0	0	0	0	791	76
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt					0.984	
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3383	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3383	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						175
Peak Hour Factor	0.92	0.92	0.92	0.92	0.85	0.67
Heavy Vehicles (%)	2%	2%	2%	2%	5%	5%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	931	113
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	1044	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	28.3%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.


















Lanes, Volumes, Timings
3: Elm Street & Grove Street

01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	80	704	0	0	8	5	127	0	0	
Future Volume (vph)	0	0	0	80	704	0	0	8	5	127	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.944												
Flt Protected					0.994					0.950			
Satd. Flow (prot)	0	0	1863	0	3385	0	0	1794	0	1770	0	0	
Flt Permitted					0.994					0.950			
Satd. Flow (perm)	0	0	1863	0	3385	0	0	1794	0	1770	0	0	
Link Speed (mph)	30				30				30		30		
Link Distance (ft)	141				238				230		337		
Travel Time (s)	3.2				5.4				5.2		7.7		
Peak Hour Factor	0.92	0.92	0.92	0.66	0.84	0.92	0.92	0.58	0.50	0.72	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	20%	4%	2%	2%	0%	0%	2%	2%	2%	
Adj. Flow (vph)	0	0	0	121	838	0	0	14	10	176	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	959	0	0	24	0	176	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0				0				12		12		
Link Offset(ft)	0				0				0		0		
Crosswalk Width(ft)	16				16				16		16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15		9		15		9		15		9		
Sign Control	Free				Free				Stop		Stop		
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	42.2%						ICU Level of Service A						
Analysis Period (min)	15												

















HCM Unsignalized Intersection Capacity Analysis
 3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	80	704	0	0	8	5	127	0	0
Future Volume (Veh/h)	0	0	0	80	704	0	0	8	5	127	0	0
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.66	0.84	0.92	0.92	0.58	0.50	0.72	0.92	0.92
Hourly flow rate (vph)	0	0	0	121	838	0	0	14	10	176	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	838			0			1080	1080	419	678	1080	0
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	838			0			1080	1080	419	678	1080	0
tC, single (s)	4.1			4.5			7.5	6.5	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.4			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	100			92			100	93	98	40	100	100
cM capacity (veh/h)	792			1500			162	202	589	296	199	1084
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	400	559	24	176							
Volume Left	0	121	0	0	176							
Volume Right	0	0	0	10	0							
cSH	1700	1500	1700	278	296							
Volume to Capacity	0.00	0.08	0.33	0.09	0.60							
Queue Length 95th (ft)	0	7	0	7	89							
Control Delay (s)	0.0	2.8	0.0	19.2	33.6							
Lane LOS		A		C	D							
Approach Delay (s)	0.0	1.2		19.2	33.6							
Approach LOS				C	D							
Intersection Summary												
Average Delay			6.5									
Intersection Capacity Utilization			42.2%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	129	814	35	74	11	0	0	0	0
Future Volume (vph)	0	0	0	129	814	35	74	11	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.994							
Flt Protected					0.992			0.959				
Satd. Flow (prot)	0	0	1863	0	3432	0	0	1533	0	0	0	1863
Flt Permitted					0.992			0.959				
Satd. Flow (perm)	0	0	1863	0	3432	0	0	1533	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				47		47						
Peak Hour Factor	0.92	0.92	0.92	0.71	0.97	0.77	0.68	0.63	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	2%	3%	24%	14%	50%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	182	839	45	109	17	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1066	0	0	126	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	38.8%			ICU Level of Service A								
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis











4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	129	814	35	74	11	0	0	0	0
Future Volume (Veh/h)	0	0	0	129	814	35	74	11	0	0	0	0
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.71	0.97	0.77	0.68	0.63	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	182	839	45	109	17	0	0	0	0
Pedestrians								47			47	
Lane Width (ft)								12.0			12.0	
Walking Speed (ft/s)								3.5			3.5	
Percent Blockage								4			4	
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	931			47			830	1342	47	1281	1320	489
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	931			47			830	1342	47	1281	1320	489
tC, single (s)	4.1			4.1			7.8	7.5	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.6	4.5	3.3	3.5	4.0	3.3
p0 queue free %	100			88			45	79	100	100	100	100
cM capacity (veh/h)	698			1489			196	81	967	84	125	501
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	602	464	126	0							
Volume Left	0	182	0	109	0							
Volume Right	0	0	45	0	0							
cSH	1700	1489	1700	165	1700							
Volume to Capacity	0.00	0.12	0.27	0.77	0.00							
Queue Length 95th (ft)	0	10	0	122	0							
Control Delay (s)	0.0	3.2	0.0	75.7	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	1.8		75.7	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay			9.6									
Intersection Capacity Utilization			38.8%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021

							Ø2	Ø7	Ø8	Ø9	Ø10
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT					
Lane Configurations						 					
Traffic Volume (vph)	10	10	258	0	0	459					
Future Volume (vph)	10	10	258	0	0	459					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.55										
Frt	0.932										
Flt Protected	0.976										
Satd. Flow (prot)	474	0	1845	0	0	3374					
Flt Permitted	0.976										
Satd. Flow (perm)	474	0	1845	0	0	3374					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	13										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		405									
Peak Hour Factor	0.75	0.75	0.89	0.92	0.92	0.91					
Heavy Vehicles (%)	100%	100%	3%	2%	2%	7%					
Adj. Flow (vph)	13	13	290	0	0	504					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	26	0	290	0	0	504					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	10.0					10.0	3.0	13.0	15.0	5.0	5.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%					18.0%	6%	24%	24%	7%	7%
Maximum Green (s)	10.0					14.0	4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0					3.0	2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0					1.0	0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0					-2.0					
Total Lost Time (s)	-1.0					2.0					
Lead/Lag						Lag		Lag		Lead	Lead
Lead-Lag Optimize?						Yes		Yes		Yes	Yes
Vehicle Extension (s)	0.2					0.2	0.2	0.2	0.2	3.0	3.0
Recall Mode	Max					Max	Max	Max	Max	Max	Max
Walk Time (s)	5.0					5.0	3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0					0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0					0	0	0	0	0	0
Act Effct Green (s)	15.0		62.0			16.0					
Actuated g/C Ratio	0.15		0.62			0.16					
v/c Ratio	0.32		0.25			0.94					
Control Delay	35.9		5.4			68.1					
Queue Delay	0.0		0.8			45.8					
Total Delay	35.9		6.2			113.8					
LOS	D		A			F					
Approach Delay	35.9		6.2			113.8					
Approach LOS	D		A			F					

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.96
Intersection Signal Delay:	73.3
Intersection LOS:	E
Intersection Capacity Utilization:	28.6%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	26	290	504
v/c Ratio	0.32	0.25	0.94
Control Delay	35.9	5.4	68.1
Queue Delay	0.0	0.8	45.8
Total Delay	35.9	6.2	113.8
Queue Length 50th (ft)	7	55	168
Queue Length 95th (ft)	27	54	#268
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	82	1143	539
Starvation Cap Reductn	0	568	0
Spillback Cap Reductn	0	0	121
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.32	0.50	1.21

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Volume (vph)	10	10	258	0	0	459
Future Volume (vph)	10	10	258	0	0	459
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.55		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.93		1.00			1.00
Flt Protected	0.98		1.00			1.00
Satd. Flow (prot)	474		1845			3374
Flt Permitted	0.98		1.00			1.00
Satd. Flow (perm)	474		1845			3374
Peak-hour factor, PHF	0.75	0.75	0.89	0.92	0.92	0.91
Adj. Flow (vph)	13	13	290	0	0	504
RTOR Reduction (vph)	11	0	0	0	0	0
Lane Group Flow (vph)	15	0	290	0	0	504
Confl. Peds. (#/hr)		405				
Heavy Vehicles (%)	100%	100%	3%	2%	2%	7%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	71		1033			539
v/s Ratio Prot	c0.03		c0.16			c0.15
v/s Ratio Perm						
v/c Ratio	0.21		0.28			0.94
Uniform Delay, d1	37.3		11.5			41.5
Progression Factor	1.00		0.87			1.00
Incremental Delay, d2	6.6		0.7			25.6
Delay (s)	43.9		10.7			67.1
Level of Service	D		B			E
Approach Delay (s)	43.9		10.7			67.1
Approach LOS	D		B			E
Intersection Summary						
HCM 2000 Control Delay			46.4		HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio			0.34			
Actuated Cycle Length (s)			100.0		Sum of lost time (s)	16.0
Intersection Capacity Utilization			28.6%		ICU Level of Service	A
Analysis Period (min)			15			
c Critical Lane Group						

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.46	2.22	2.22
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	70	0	0	0	0	824
Future Volume (vph)	70	0	0	0	0	824
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1703	0	0	0	0	3471
Flt Permitted	0.950					
Satd. Flow (perm)	1703	0	0	0	0	3471
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	150					
Peak Hour Factor	0.69	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	6%	2%	2%	2%	2%	4%
Adj. Flow (vph)	101	0	0	0	0	896
Shared Lane Traffic (%)						
Lane Group Flow (vph)	101	0	0	0	0	896
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	58.5%
ICU Level of Service	B
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	70	979
Future Volume (vph)	0	0	0	0	70	979
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.996
Satd. Flow (prot)	0	0	0	0	0	3452
Flt Permitted						0.996
Satd. Flow (perm)	0	0	0	0	0	3452
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.69	0.86
Heavy Vehicles (%)	2%	2%	2%	2%	6%	4%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	101	1138
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	1239
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	58.5%
Analysis Period (min)	15
	ICU Level of Service B

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	258	38	165	346	427	175	221	0	88	39		
Future Volume (vph)	258	38	165	346	427	175	221	0	88	39		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.88		0.10					0.38				
Frt	0.980			0.850	0.850	0.865		0.870				
Flt Protected			0.950				0.950	0.993				
Satd. Flow (prot)	3034	0	1770	1599	1615	1611	1618	567	0	0		
Flt Permitted			0.950				0.950	0.993				
Satd. Flow (perm)	3034	0	177	1599	1615	1611	1618	567	0	0		
Right Turn on Red		Yes			Yes	Yes				Yes		
Satd. Flow (RTOR)	185				454	457		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		839	839		139	231					153	
Peak Hour Factor	0.88	0.84	0.94	0.95	0.94	0.81	0.93	0.92	0.78	0.73		
Heavy Vehicles (%)	3%	0%	2%	1%	0%	2%	6%	2%	1%	16%		
Adj. Flow (vph)	293	45	176	364	454	216	238	0	113	53		
Shared Lane Traffic (%)							11%					
Lane Group Flow (vph)	338	0	176	364	454	216	212	192	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		15.0			15.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	8.0	2.0	2.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		36.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.36	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.48		0.50	0.54	0.40	0.33	0.39	0.67				
Control Delay	18.9		30.6	25.5	1.7	1.3	6.0	24.0				
Queue Delay	0.0		0.0	0.0	0.1	0.0	3.4	68.0				
Total Delay	18.9		30.6	25.5	1.8	1.3	9.3	92.0				
LOS	B		C	C	A	A	A	F				
Approach Delay	18.9		15.6					48.6				
Approach LOS	B		B					D				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.67
Intersection Signal Delay:	21.4
Intersection LOS:	C
Intersection Capacity Utilization:	57.6%
ICU Level of Service:	B
Analysis Period (min):	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	184	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	338	176	364	454	216	212	192
v/c Ratio	0.48	0.50	0.54	0.40	0.33	0.39	0.67
Control Delay	18.9	30.6	25.5	1.7	1.3	6.0	24.0
Queue Delay	0.0	0.0	0.0	0.1	0.0	3.4	68.0
Total Delay	18.9	30.6	25.5	1.8	1.3	9.3	92.0
Queue Length 50th (ft)	44	78	170	0	0	13	85
Queue Length 95th (ft)	84	146	260	27	0	26	#151
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	697	350	671	1127	664	550	286
Starvation Cap Reductn	0	0	0	0	0	246	147
Spillback Cap Reductn	0	0	0	122	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.48	0.50	0.54	0.45	0.33	0.70	1.38

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↶	↶	↶	↵	↷		
Traffic Volume (vph)	258	38	165	346	427	175	221	0	88	39
Future Volume (vph)	258	38	165	346	427	175	221	0	88	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.88		1.00	1.00	1.00	1.00	1.00	0.38		
Flpb, ped/bikes	1.00		0.15	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.87		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	3034		261	1599	1615	1611	1618	567		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	3034		261	1599	1615	1611	1618	567		
Peak-hour factor, PHF	0.88	0.84	0.94	0.95	0.94	0.81	0.93	0.92	0.78	0.73
Adj. Flow (vph)	293	45	176	364	454	216	238	0	113	53
RTOR Reduction (vph)	152	0	0	0	227	177	0	97	0	0
Lane Group Flow (vph)	186	0	176	364	227	39	212	95	0	0
Confl. Peds. (#/hr)		839	839		139	231				153
Heavy Vehicles (%)	3%	0%	2%	1%	0%	2%	6%	2%	1%	16%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	546		109	671	807	289	517	181		
v/s Ratio Prot	0.06		c0.29	0.23	0.14	0.02	0.13	c0.17		
v/s Ratio Perm			0.39							
v/c Ratio	0.34		1.61	0.54	0.28	0.13	0.41	0.53		
Uniform Delay, d1	35.8		35.2	21.8	14.5	34.5	26.6	27.8		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.16	1.41		
Incremental Delay, d2	1.7		314.7	3.1	0.9	1.0	2.1	9.2		
Delay (s)	37.5		349.9	24.9	15.4	35.4	6.4	48.3		
Level of Service	D		F	C	B	D	A	D		
Approach Delay (s)	37.5		78.1					26.3		
Approach LOS	D		E					C		
Intersection Summary										
HCM 2000 Control Delay			55.6			HCM 2000 Level of Service			E	
HCM 2000 Volume to Capacity ratio			1.14							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)		26.0		
Intersection Capacity Utilization			57.6%			ICU Level of Service			B	
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.76	2.09	2.20	2.28	1.61	2.23
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	639	125
Future Volume (vph)	0	0	0	0	639	125
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt	0.971					
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3423	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3423	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						506
Peak Hour Factor	0.92	0.92	0.92	0.92	0.94	0.76
Heavy Vehicles (%)	2%	2%	2%	2%	3%	0%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	680	164
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	844	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	26.6%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street


















01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	129	509	0	0	51	14	75	0	0	
Future Volume (vph)	0	0	0	129	509	0	0	51	14	75	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.967												
Flt Protected					0.990					0.950			
Satd. Flow (prot)	0	0	1863	0	3436	0	0	1837	0	1805	0	0	
Flt Permitted					0.990					0.950			
Satd. Flow (perm)	0	0	1863	0	3436	0	0	1837	0	1805	0	0	
Link Speed (mph)	30				30				30		30		
Link Distance (ft)	141				238				236		337		
Travel Time (s)	3.2				5.4				5.4		7.7		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.93	0.92	0.92	0.74	0.65	0.88	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	4%	4%	2%	2%	0%	0%	0%	2%	2%	
Adj. Flow (vph)	0	0	0	140	547	0	0	69	22	85	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	687	0	0	91	0	85	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0				0				12		12		
Link Offset(ft)	0				0				0		0		
Crosswalk Width(ft)	16				16				16		16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15		9		15		9		15		9		
Sign Control	Free				Free				Stop				
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	35.3%						ICU Level of Service A						
Analysis Period (min)	15												

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	129	509	0	0	51	14	75	0	0
Future Volume (Veh/h)	0	0	0	129	509	0	0	51	14	75	0	0
Sign Control	Free		Free		Free		Stop		Stop		Stop	
Grade	0%		0%		0%		0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.93	0.92	0.92	0.74	0.65	0.88	0.92	0.92
Hourly flow rate (vph)	0	0	0	140	547	0	0	69	22	85	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None				None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	547		0		827		827		274		610	
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	547		0		827		827		274		610	
tC, single (s)	4.1		4.2		7.5		6.5		6.9		7.5	
tC, 2 stage (s)												
tF (s)	2.2		2.2		3.5		4.0		3.3		3.5	
p0 queue free %	100		91		100		76		97		70	
cM capacity (veh/h)	1018		1607		246		282		730		282	
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	322	365	91	85							
Volume Left	0	140	0	0	85							
Volume Right	0	0	0	22	0							
cSH	1700	1607	1700	331	282							
Volume to Capacity	0.00	0.09	0.21	0.27	0.30							
Queue Length 95th (ft)	0	7	0	27	31							
Control Delay (s)	0.0	3.6	0.0	19.9	23.2							
Lane LOS		A		C	C							
Approach Delay (s)	0.0	1.7		19.9	23.2							
Approach LOS				C	C							
Intersection Summary												
Average Delay			5.7									
Intersection Capacity Utilization			35.3%		ICU Level of Service		A					
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	78	851	63	179	9	0	0	0	0
Future Volume (vph)	0	0	0	78	851	63	179	9	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.988							
Flt Protected					0.996			0.957				
Satd. Flow (prot)	0	0	1863	0	3454	0	0	1779	0	0	0	1863
Flt Permitted					0.996			0.957				
Satd. Flow (perm)	0	0	1863	0	3454	0	0	1779	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				62		139						
Peak Hour Factor	0.92	0.92	0.92	0.97	0.92	0.72	0.89	0.40	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	1%	1%	24%	1%	13%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	80	925	88	201	23	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1093	0	0	224	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	45.3%					ICU Level of Service A						
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis

4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	78	851	63	179	9	0	0	0	0
Future Volume (Veh/h)	0	0	0	78	851	63	179	9	0	0	0	0
Sign Control		Free			Free			Stop				Stop
Grade		0%			0%			0%				0%
Peak Hour Factor	0.92	0.92	0.92	0.97	0.92	0.72	0.89	0.40	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	80	925	88	201	23	0	0	0	0
Pedestrians								62				139
Lane Width (ft)								12.0				12.0
Walking Speed (ft/s)								3.5				3.5
Percent Blockage								6				13
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1152			62			684	1374	62	1280	1330	646
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1152			62			684	1374	62	1280	1330	646
tC, single (s)	4.1			4.1			7.5	6.8	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.1	3.3	3.5	4.0	3.3
p0 queue free %	100			95			23	77	100	100	100	100
cM capacity (veh/h)	523			1455			261	101	931	73	118	360
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	542	550	224	0							
Volume Left	0	80	0	201	0							
Volume Right	0	0	88	0	0							
cSH	1700	1455	1700	225	1700							
Volume to Capacity	0.00	0.05	0.32	1.00	0.00							
Queue Length 95th (ft)	0	4	0	228	0							
Control Delay (s)	0.0	1.6	0.0	105.4	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	0.8		105.4	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay				18.6								
Intersection Capacity Utilization			45.3%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Lane Configurations											
Traffic Volume (vph)	6	9	447	0	0	333					
Future Volume (vph)	6	9	447	0	0	333					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.49										
Frt	0.924										
Flt Protected	0.979										
Satd. Flow (prot)	421	0	1900	0	0	3471					
Flt Permitted	0.979										
Satd. Flow (perm)	421	0	1900	0	0	3471					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	13										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		398									
Peak Hour Factor	0.63	0.67	0.93	0.92	0.92	0.98					
Heavy Vehicles (%)	100%	100%	0%	2%	2%	4%					
Adj. Flow (vph)	10	13	481	0	0	340					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	23	0	481	0	0	340					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	8.0					10.0	3.0	15.0	15.0	2.0	2.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%					18.0%	6%	24%	24%	7%	7%
Maximum Green (s)	10.0					14.0	4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0					3.0	2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0					1.0	0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0					-2.0					
Total Lost Time (s)	-1.0					2.0					
Lead/Lag						Lag		Lag		Lead	Lead
Lead-Lag Optimize?						Yes		Yes		Yes	Yes
Vehicle Extension (s)	0.2					0.2	0.2	0.2	0.2	3.0	3.0
Recall Mode	Max					Max	Max	Max	Max	Max	Max
Walk Time (s)	5.0					5.0	3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0					0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0					0	0	0	0	184	0
Act Effct Green (s)	15.0		62.0			16.0					
Actuated g/C Ratio	0.15		0.62			0.16					
v/c Ratio	0.31		0.41			0.61					
Control Delay	35.8		6.7			44.5					
Queue Delay	0.0		0.6			8.5					
Total Delay	35.8		7.3			52.9					
LOS	D		A			D					
Approach Delay	35.8		7.3			52.9					
Approach LOS	D		A			D					

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.67
Intersection Signal Delay:	26.5
Intersection LOS:	C
Intersection Capacity Utilization:	36.9%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	23	481	340
v/c Ratio	0.31	0.41	0.61
Control Delay	35.8	6.7	44.5
Queue Delay	0.0	0.6	8.5
Total Delay	35.8	7.3	52.9
Queue Length 50th (ft)	6	103	107
Queue Length 95th (ft)	18	101	155
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	74	1178	555
Starvation Cap Reductn	0	347	0
Spillback Cap Reductn	0	0	175
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.31	0.58	0.89
Intersection Summary			

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	↔		↑			↗↘
Traffic Volume (vph)	6	9	447	0	0	333
Future Volume (vph)	6	9	447	0	0	333
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.49		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.92		1.00			1.00
Flt Protected	0.98		1.00			1.00
Satd. Flow (prot)	421		1900			3471
Flt Permitted	0.98		1.00			1.00
Satd. Flow (perm)	421		1900			3471
Peak-hour factor, PHF	0.63	0.67	0.93	0.92	0.92	0.98
Adj. Flow (vph)	10	13	481	0	0	340
RTOR Reduction (vph)	11	0	0	0	0	0
Lane Group Flow (vph)	12	0	481	0	0	340
Confl. Peds. (#/hr)		398				
Heavy Vehicles (%)	100%	100%	0%	2%	2%	4%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	63		1064			555
v/s Ratio Prot	c0.03		c0.25			c0.10
v/s Ratio Perm						
v/c Ratio	0.19		0.45			0.61
Uniform Delay, d1	37.2		13.0			39.1
Progression Factor	1.00		0.91			1.00
Incremental Delay, d2	6.6		1.3			5.0
Delay (s)	43.8		13.1			44.1
Level of Service	D		B			D
Approach Delay (s)	43.8		13.1			44.1
Approach LOS	D		B			D

Intersection Summary

HCM 2000 Control Delay	26.4	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.36		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	36.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.46	2.22	2.23
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	89	0	0	0	0	654
Future Volume (vph)	89	0	0	0	0	654
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1805	0	0	0	0	3471
Flt Permitted	0.950					
Satd. Flow (perm)	1805	0	0	0	0	3471
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	333					
Peak Hour Factor	0.88	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	2%	2%	2%	4%
Adj. Flow (vph)	101	0	0	0	0	711
Shared Lane Traffic (%)						
Lane Group Flow (vph)	101	0	0	0	0	711
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	53.3%
	ICU Level of Service A
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	89	938
Future Volume (vph)	0	0	0	0	89	938
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.995
Satd. Flow (prot)	0	0	0	0	0	3560
Flt Permitted						0.995
Satd. Flow (perm)	0	0	0	0	0	3560
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.88	0.97
Heavy Vehicles (%)	2%	2%	2%	2%	0%	1%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	101	967
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	1068
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	53.3%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	239	42	129	270	240	158	191	0	71	40		
Future Volume (vph)	239	42	129	270	240	158	191	0	71	40		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.86							0.51				
Frt	0.977			0.850	0.850	0.865		0.877				
Flt Protected			0.950				0.950	0.991				
Satd. Flow (prot)	2937	0	1770	1583	1615	1644	1665	748	0	0		
Flt Permitted			0.950				0.950	0.991				
Satd. Flow (perm)	2937	0	1770	1583	1615	1644	1665	748	0	0		
Right Turn on Red		Yes			Yes	Yes					Yes	
Satd. Flow (RTOR)	185				267	472		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		500			84	200					91	
Peak Hour Factor	0.89	0.88	0.89	0.86	0.90	0.90	0.83	0.92	0.80	0.68		
Heavy Vehicles (%)	4%	2%	2%	2%	0%	0%	3%	2%	3%	18%		
Adj. Flow (vph)	269	48	145	314	267	176	230	0	89	59		
Shared Lane Traffic (%)							14%					
Lane Group Flow (vph)	317	0	145	314	267	176	198	180	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		13.0			13.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	10.0	5.0	5.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		42.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.42	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.47		0.20	0.47	0.25	0.26	0.35	0.52				
Control Delay	17.5		19.2	23.9	1.4	0.9	4.9	11.2				
Queue Delay	0.0		0.0	0.0	0.0	0.0	2.3	44.9				
Total Delay	17.5		19.2	23.9	1.4	0.9	7.2	56.1				
LOS	B		B	C	A	A	A	E				
Approach Delay	17.5		14.7					30.5				
Approach LOS	B		B					C				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.57
Intersection Signal Delay:	17.5
Intersection LOS:	B
Intersection Capacity Utilization	54.2%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	0	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	317	145	314	267	176	198	180
v/c Ratio	0.47	0.20	0.47	0.25	0.26	0.35	0.52
Control Delay	17.5	19.2	23.9	1.4	0.9	4.9	11.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	2.3	44.9
Total Delay	17.5	19.2	23.9	1.4	0.9	7.2	56.1
Queue Length 50th (ft)	38	57	141	0	0	9	68
Queue Length 95th (ft)	78	98	207	22	0	14	116
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	680	743	664	1048	682	566	348
Starvation Cap Reductn	0	0	0	0	0	249	174
Spillback Cap Reductn	0	0	0	45	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.47	0.20	0.47	0.27	0.26	0.62	1.03
Intersection Summary							

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↶	↶	↶	↵	↷		
Traffic Volume (vph)	239	42	129	270	240	158	191	0	71	40
Future Volume (vph)	239	42	129	270	240	158	191	0	71	40
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.86		1.00	1.00	1.00	1.00	1.00	0.51		
Flpb, ped/bikes	1.00		1.00	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.88		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	2938		1770	1583	1615	1644	1665	748		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	2938		1770	1583	1615	1644	1665	748		
Peak-hour factor, PHF	0.89	0.88	0.89	0.86	0.90	0.90	0.83	0.92	0.80	0.68
Adj. Flow (vph)	269	48	145	314	267	176	230	0	89	59
RTOR Reduction (vph)	152	0	0	0	134	144	0	97	0	0
Lane Group Flow (vph)	165	0	145	314	134	32	198	83	0	0
Confl. Peds. (#/hr)		500			84	200				91
Heavy Vehicles (%)	4%	2%	2%	2%	0%	0%	3%	2%	3%	18%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	528		743	664	807	295	532	239		
v/s Ratio Prot	0.06		0.04	c0.20	0.08	0.02	c0.12	0.11		
v/s Ratio Perm			0.05							
v/c Ratio	0.31		0.20	0.47	0.17	0.11	0.37	0.35		
Uniform Delay, d1	35.6		22.3	21.0	13.6	34.3	26.2	26.0		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.14	0.85		
Incremental Delay, d2	1.5		0.6	2.4	0.4	0.7	1.7	3.5		
Delay (s)	37.2		22.9	23.4	14.1	35.0	5.3	25.6		
Level of Service	D		C	C	B	D	A	C		
Approach Delay (s)	37.2		19.9					15.0		
Approach LOS	D		B					B		
Intersection Summary										
HCM 2000 Control Delay			23.8			HCM 2000 Level of Service				C
HCM 2000 Volume to Capacity ratio			0.43							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)			26.0	
Intersection Capacity Utilization			54.2%			ICU Level of Service				A
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.71	2.06	2.18	2.19	1.58	2.16
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	681	147
Future Volume (vph)	0	0	0	0	681	147
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt					0.971	
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3443	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3443	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						694
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.84
Heavy Vehicles (%)	2%	2%	2%	2%	2%	1%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	740	175
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	915	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	28.8%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street


















01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	120	551	0	0	5	16	126	0	0	
Future Volume (vph)	0	0	0	120	551	0	0	5	16	126	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.895												
Flt Protected					0.991					0.950			
Satd. Flow (prot)	0	0	1863	0	3507	0	0	1700	0	1787	0	0	
Flt Permitted					0.991					0.950			
Satd. Flow (perm)	0	0	1863	0	3507	0	0	1700	0	1787	0	0	
Link Speed (mph)	30				30				30		30		
Link Distance (ft)	141				238				230		337		
Travel Time (s)	3.2				5.4				5.2		7.7		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.90	0.92	0.92	0.58	0.50	0.74	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	0%	0%	1%	2%	2%	
Adj. Flow (vph)	0	0	0	130	612	0	0	9	32	170	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	742	0	0	41	0	170	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0				0				12		12		
Link Offset(ft)	0				0				0		0		
Crosswalk Width(ft)	16				16				16		16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9		15	9		15	9		15	9		
Sign Control	Free				Free				Stop		Stop		
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	39.0%					ICU Level of Service A							
Analysis Period (min)	15												

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	120	551	0	0	5	16	126	0	0
Future Volume (Veh/h)	0	0	0	120	551	0	0	5	16	126	0	0
Sign Control	Free		Free		Free		Stop		Stop		Stop	
Grade	0%		0%		0%		0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.90	0.92	0.92	0.58	0.50	0.74	0.92	0.92
Hourly flow rate (vph)	0	0	0	130	612	0	0	9	32	170	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None				None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	612		0		872		872		306		602	
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	612		0		872		872		306		602	
tC, single (s)	4.1		4.1		7.5		6.5		6.9		7.5	
tC, 2 stage (s)												
tF (s)	2.2		2.2		3.5		4.0		3.3		3.5	
p0 queue free %	100		92		100		97		95		49	
cM capacity (veh/h)	963		1622		230		268		696		336	
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	334	408	41	170							
Volume Left	0	130	0	0	170							
Volume Right	0	0	0	32	0							
cSH	1700	1622	1700	515	336							
Volume to Capacity	0.00	0.08	0.24	0.08	0.51							
Queue Length 95th (ft)	0	7	0	6	68							
Control Delay (s)	0.0	3.3	0.0	12.6	26.2							
Lane LOS	A		B		D							
Approach Delay (s)	0.0	1.5	12.6		26.2							
Approach LOS	B		D									
Intersection Summary												
Average Delay	6.4											
Intersection Capacity Utilization	39.0%		ICU Level of Service		A							
Analysis Period (min)	15											

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	132	757	46	114	12	0	0	0	0
Future Volume (vph)	0	0	0	132	757	46	114	12	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Fr _t					0.991							
Fl _t Protected					0.991			0.956				
Satd. Flow (prot)	0	0	1863	0	3481	0	0	1770	0	0	0	1863
Fl _t Permitted					0.991			0.956				
Satd. Flow (perm)	0	0	1863	0	3481	0	0	1770	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				120		250						
Peak Hour Factor	0.92	0.92	0.92	0.69	0.92	0.75	0.81	0.83	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	2%	1%	13%	2%	9%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	191	823	61	141	14	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1075	0	0	155	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	40.2%			ICU Level of Service A								
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis

4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	132	757	46	114	12	0	0	0	0
Future Volume (Veh/h)	0	0	0	132	757	46	114	12	0	0	0	0
Sign Control		Free			Free			Stop				Stop
Grade		0%			0%			0%				0%
Peak Hour Factor	0.92	0.92	0.92	0.69	0.92	0.75	0.81	0.83	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	191	823	61	141	14	0	0	0	0
Pedestrians								120				250
Lane Width (ft)								12.0				12.0
Walking Speed (ft/s)								3.5				3.5
Percent Blockage								11				24
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1134			120			914	1636	120	1492	1606	692
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1134			120			914	1636	120	1492	1606	692
tC, single (s)	4.1			4.1			7.5	6.7	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.1	3.3	3.5	4.0	3.3
p0 queue free %	100			85			0	74	100	100	100	100
cM capacity (veh/h)	466			1298			135	54	805	35	60	294
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	602	472	155	0							
Volume Left	0	191	0	141	0							
Volume Right	0	0	61	0	0							
cSH	1700	1298	1700	119	1700							
Volume to Capacity	0.00	0.15	0.28	1.30	0.00							
Queue Length 95th (ft)	0	13	0	255	0							
Control Delay (s)	0.0	3.7	0.0	253.9	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	2.1		253.9	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay			33.8									
Intersection Capacity Utilization			40.2%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Lane Configurations											
Traffic Volume (vph)	10	8	242	0	0	292					
Future Volume (vph)	10	8	242	0	0	292					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.71										
Frt	0.940										
Flt Protected	0.973										
Satd. Flow (prot)	788	0	1900	0	0	3539					
Flt Permitted	0.973										
Satd. Flow (perm)	788	0	1900	0	0	3539					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	21										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		123									
Peak Hour Factor	0.38	0.38	0.92	0.92	0.92	0.90					
Heavy Vehicles (%)	67%	43%	0%	2%	2%	2%					
Adj. Flow (vph)	26	21	263	0	0	324					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	47	0	263	0	0	324					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	10.0					10.0	3.0	13.0	15.0	5.0	5.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%					18.0%	6%	24%	24%	7%	7%
Maximum Green (s)	10.0					14.0	4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0					3.0	2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0					1.0	0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0					-2.0					
Total Lost Time (s)	-1.0					2.0					
Lead/Lag						Lag		Lag		Lead	Lead
Lead-Lag Optimize?						Yes		Yes		Yes	Yes
Vehicle Extension (s)	0.2					0.2	0.2	0.2	0.2	3.0	3.0
Recall Mode	Max					Max	Max	Max	Max	Max	Max
Walk Time (s)	5.0					5.0	3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0					0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0					0	0	0	0	0	0
Act Effct Green (s)	15.0		62.0			16.0					
Actuated g/C Ratio	0.15		0.62			0.16					
v/c Ratio	0.35		0.22			0.57					
Control Delay	32.3		5.1			43.4					
Queue Delay	0.0		0.8			2.6					
Total Delay	32.3		6.0			46.0					
LOS	C		A			D					
Approach Delay	32.3		6.0			46.0					
Approach LOS	C		A			D					

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.57
Intersection Signal Delay:	28.4
Intersection LOS:	C
Intersection Capacity Utilization:	27.7%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	47	263	324
v/c Ratio	0.35	0.22	0.57
Control Delay	32.3	5.1	43.4
Queue Delay	0.0	0.8	2.6
Total Delay	32.3	6.0	46.0
Queue Length 50th (ft)	15	49	101
Queue Length 95th (ft)	13	49	147
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	136	1178	566
Starvation Cap Reductn	0	643	0
Spillback Cap Reductn	0	0	140
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.35	0.49	0.76
Intersection Summary			

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Volume (vph)	10	8	242	0	0	292
Future Volume (vph)	10	8	242	0	0	292
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.71		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.94		1.00			1.00
Flt Protected	0.97		1.00			1.00
Satd. Flow (prot)	787		1900			3539
Flt Permitted	0.97		1.00			1.00
Satd. Flow (perm)	787		1900			3539
Peak-hour factor, PHF	0.38	0.38	0.92	0.92	0.92	0.90
Adj. Flow (vph)	26	21	263	0	0	324
RTOR Reduction (vph)	18	0	0	0	0	0
Lane Group Flow (vph)	29	0	263	0	0	324
Confl. Peds. (#/hr)		123				
Heavy Vehicles (%)	67%	43%	0%	2%	2%	2%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	118		1064			566
v/s Ratio Prot	c0.04		c0.14			c0.09
v/s Ratio Perm						
v/c Ratio	0.25		0.25			0.57
Uniform Delay, d1	37.5		11.2			38.8
Progression Factor	1.00		0.86			1.00
Incremental Delay, d2	4.9		0.5			4.2
Delay (s)	42.4		10.2			43.0
Level of Service	D		B			D
Approach Delay (s)	42.4		10.2			43.0
Approach LOS	D		B			D

Intersection Summary

HCM 2000 Control Delay	29.4	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.27		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	27.7%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.48	2.15	2.15
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	210	0	0	0	0	588
Future Volume (vph)	210	0	0	0	0	588
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1787	0	0	0	0	3539
Flt Permitted	0.950					
Satd. Flow (perm)	1787	0	0	0	0	3539
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	150					
Peak Hour Factor	0.78	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	1%	2%	2%	2%	2%	2%
Adj. Flow (vph)	269	0	0	0	0	639
Shared Lane Traffic (%)						
Lane Group Flow (vph)	269	0	0	0	0	639
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

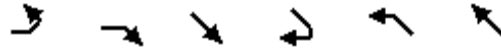
Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	46.7%
	ICU Level of Service A
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	210	639
Future Volume (vph)	0	0	0	0	210	639
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.986
Satd. Flow (prot)	0	0	0	0	0	3524
Flt Permitted						0.986
Satd. Flow (perm)	0	0	0	0	0	3524
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.78	0.94
Heavy Vehicles (%)	2%	2%	2%	2%	1%	1%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	269	680
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	949
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	46.7%
Analysis Period (min)	15
	ICU Level of Service A

Intersection Sign configuration not allowed in HCM analysis.

APPENDIX F.2 – 2020 BUILD ANALYSIS

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	392	39	275	445	259	125	307	0	118	29		
Future Volume (vph)	392	39	275	445	259	125	307	0	118	29		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.91		0.10					0.60				
Frt	0.985			0.850	0.850	0.865		0.885				
Flt Protected			0.950				0.950	0.988				
Satd. Flow (prot)	3122	0	1736	1553	1568	1536	1649	807	0	0		
Flt Permitted			0.950				0.950	0.988				
Satd. Flow (perm)	3122	0	174	1553	1568	1536	1649	807	0	0		
Right Turn on Red		Yes			Yes	Yes				Yes		
Satd. Flow (RTOR)	185				291	362		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		298	298		31	82			59			
Peak Hour Factor	0.89	0.79	0.86	0.71	0.89	0.94	0.93	0.92	0.81	0.64		
Heavy Vehicles (%)	4%	0%	4%	4%	3%	7%	4%	2%	15%	39%		
Adj. Flow (vph)	440	49	320	627	291	133	330	0	146	45		
Shared Lane Traffic (%)							18%					
Lane Group Flow (vph)	489	0	320	627	291	133	271	250	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		13.0			13.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	10.0	5.0	5.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		36.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.36	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.69		0.93	0.96	0.28	0.23	0.48	0.68				
Control Delay	29.0		68.7	56.7	1.4	0.9	3.3	16.8				
Queue Delay	0.0		0.0	0.0	0.0	0.0	10.6	65.7				
Total Delay	29.0		68.7	56.7	1.5	0.9	13.9	82.5				
LOS	C		E	E	A	A	B	F				
Approach Delay	29.0		46.8					46.8				
Approach LOS	C		D					D				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.96
Intersection Signal Delay:	40.6
Intersection LOS:	D
Intersection Capacity Utilization	62.5%
ICU Level of Service	B
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	0	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	489	320	627	291	133	271	250
v/c Ratio	0.69	0.93	0.96	0.28	0.23	0.48	0.68
Control Delay	29.0	68.7	56.7	1.4	0.9	3.3	16.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	10.6	65.7
Total Delay	29.0	68.7	56.7	1.5	0.9	13.9	82.5
Queue Length 50th (ft)	95	180	380	0	0	8	91
Queue Length 95th (ft)	149	#321	374	22	0	m10	m98
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	713	343	652	1031	573	560	368
Starvation Cap Reductn	0	0	0	0	0	255	204
Spillback Cap Reductn	0	0	0	53	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.69	0.93	0.96	0.30	0.23	0.89	1.52

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↵	↵	↵	↵	↕		
Traffic Volume (vph)	392	39	275	445	259	125	307	0	118	29
Future Volume (vph)	392	39	275	445	259	125	307	0	118	29
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.91		1.00	1.00	1.00	1.00	1.00	0.60		
Flpb, ped/bikes	1.00		0.15	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.89		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	3122		256	1553	1568	1536	1649	808		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	3122		256	1553	1568	1536	1649	808		
Peak-hour factor, PHF	0.89	0.79	0.86	0.71	0.89	0.94	0.93	0.92	0.81	0.64
Adj. Flow (vph)	440	49	320	627	291	133	330	0	146	45
RTOR Reduction (vph)	152	0	0	0	146	109	0	97	0	0
Lane Group Flow (vph)	337	0	320	627	146	24	271	153	0	0
Confl. Peds. (#/hr)		298	298		31	82			59	
Heavy Vehicles (%)	4%	0%	4%	4%	3%	7%	4%	2%	15%	39%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	561		107	652	784	276	527	258		
v/s Ratio Prot	0.11		c0.54	0.40	0.09	0.02	0.16	c0.19		
v/s Ratio Perm			0.71							
v/c Ratio	0.60		2.99	0.96	0.19	0.09	0.51	0.59		
Uniform Delay, d1	37.7		35.2	28.2	13.8	34.2	27.7	28.6		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.08	0.98		
Incremental Delay, d2	4.7		920.4	27.0	0.5	0.6	1.4	4.0		
Delay (s)	42.4		955.6	55.2	14.3	34.8	3.6	31.8		
Level of Service	D		F	E	B	C	A	C		
Approach Delay (s)	42.4		278.3					17.2		
Approach LOS	D		F					B		

Intersection Summary			
HCM 2000 Control Delay	159.1	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.95		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	26.0
Intersection Capacity Utilization	62.5%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.94	2.17	2.33	2.36	1.55	2.22
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	791	76
Future Volume (vph)	0	0	0	0	791	76
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt	0.984					
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3383	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3383	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						175
Peak Hour Factor	0.92	0.92	0.92	0.92	0.85	0.67
Heavy Vehicles (%)	2%	2%	2%	2%	5%	5%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	931	113
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	1044	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	28.3%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street


















01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	80	704	0	0	8	5	127	0	0	
Future Volume (vph)	0	0	0	80	704	0	0	8	5	127	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.944												
Flt Protected					0.994					0.950			
Satd. Flow (prot)	0	0	1863	0	3385	0	0	1794	0	1770	0	0	
Flt Permitted					0.994					0.950			
Satd. Flow (perm)	0	0	1863	0	3385	0	0	1794	0	1770	0	0	
Link Speed (mph)	30		30			30			30				
Link Distance (ft)	141		238			230			337				
Travel Time (s)	3.2		5.4			5.2			7.7				
Peak Hour Factor	0.92	0.92	0.92	0.66	0.84	0.92	0.92	0.58	0.50	0.72	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	20%	4%	2%	2%	0%	0%	2%	2%	2%	
Adj. Flow (vph)	0	0	0	121	838	0	0	14	10	176	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	959	0	0	24	0	176	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0		0			12			12				
Link Offset(ft)	0		0			0			0				
Crosswalk Width(ft)	16		16			16			16				
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9		15	9		15	9		15	9		
Sign Control	Free		Free			Stop			Stop				
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	42.2%			ICU Level of Service A									
Analysis Period (min)	15												

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	80	704	0	0	8	5	127	0	0
Future Volume (Veh/h)	0	0	0	80	704	0	0	8	5	127	0	0
Sign Control	Free			Free				Stop			Stop	
Grade	0%			0%				0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.66	0.84	0.92	0.92	0.58	0.50	0.72	0.92	0.92
Hourly flow rate (vph)	0	0	0	121	838	0	0	14	10	176	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None				None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	838		0		1080		1080		419		678	
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	838		0		1080		1080		419		678	
tC, single (s)	4.1		4.5		7.5		6.5		6.9		7.5	
tC, 2 stage (s)												
tF (s)	2.2		2.4		3.5		4.0		3.3		3.5	
p0 queue free %	100		92		100		93		98		40	
cM capacity (veh/h)	792		1500		162		202		589		296	
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	400	559	24	176							
Volume Left	0	121	0	0	176							
Volume Right	0	0	0	10	0							
cSH	1700	1500	1700	278	296							
Volume to Capacity	0.00	0.08	0.33	0.09	0.60							
Queue Length 95th (ft)	0	7	0	7	89							
Control Delay (s)	0.0	2.8	0.0	19.2	33.6							
Lane LOS		A		C	D							
Approach Delay (s)	0.0	1.2		19.2	33.6							
Approach LOS				C	D							
Intersection Summary												
Average Delay			6.5									
Intersection Capacity Utilization			42.2%		ICU Level of Service		A					
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	129	814	35	74	11	0	0	0	0
Future Volume (vph)	0	0	0	129	814	35	74	11	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Fr _t					0.994							
Fl _t Protected					0.992			0.959				
Satd. Flow (prot)	0	0	1863	0	3432	0	0	1533	0	0	0	1863
Fl _t Permitted					0.992			0.959				
Satd. Flow (perm)	0	0	1863	0	3432	0	0	1533	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				47		47						
Peak Hour Factor	0.92	0.92	0.92	0.71	0.97	0.77	0.68	0.63	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	2%	3%	24%	14%	50%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	182	839	45	109	17	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1066	0	0	126	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	38.8%			ICU Level of Service A								
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis











4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	129	814	35	74	11	0	0	0	0
Future Volume (Veh/h)	0	0	0	129	814	35	74	11	0	0	0	0
Sign Control		Free			Free			Stop				Stop
Grade		0%			0%			0%				0%
Peak Hour Factor	0.92	0.92	0.92	0.71	0.97	0.77	0.68	0.63	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	182	839	45	109	17	0	0	0	0
Pedestrians								47				47
Lane Width (ft)								12.0				12.0
Walking Speed (ft/s)								3.5				3.5
Percent Blockage								4				4
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	931			47			830	1342	47	1281	1320	489
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	931			47			830	1342	47	1281	1320	489
tC, single (s)	4.1			4.1			7.8	7.5	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.6	4.5	3.3	3.5	4.0	3.3
p0 queue free %	100			88			45	79	100	100	100	100
cM capacity (veh/h)	698			1489			196	81	967	84	125	501
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	602	464	126	0							
Volume Left	0	182	0	109	0							
Volume Right	0	0	45	0	0							
cSH	1700	1489	1700	165	1700							
Volume to Capacity	0.00	0.12	0.27	0.77	0.00							
Queue Length 95th (ft)	0	10	0	122	0							
Control Delay (s)	0.0	3.2	0.0	75.7	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	1.8		75.7	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay			9.6									
Intersection Capacity Utilization			38.8%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021

							Ø2	Ø7	Ø8	Ø9	Ø10
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT					
Lane Configurations						 					
Traffic Volume (vph)	10	10	258	0	0	459					
Future Volume (vph)	10	10	258	0	0	459					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.55										
Frt	0.932										
Flt Protected	0.976										
Satd. Flow (prot)	474	0	1845	0	0	3374					
Flt Permitted	0.976										
Satd. Flow (perm)	474	0	1845	0	0	3374					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	13										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		405									
Peak Hour Factor	0.75	0.75	0.89	0.92	0.92	0.91					
Heavy Vehicles (%)	100%	100%	3%	2%	2%	7%					
Adj. Flow (vph)	13	13	290	0	0	504					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	26	0	290	0	0	504					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	10.0					10.0	3.0	13.0	15.0	5.0	5.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%					18.0%	6%	24%	24%	7%	7%
Maximum Green (s)	10.0					14.0	4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0					3.0	2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0					1.0	0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0					-2.0					
Total Lost Time (s)	-1.0					2.0					
Lead/Lag						Lag		Lag		Lead	Lead
Lead-Lag Optimize?						Yes		Yes		Yes	Yes
Vehicle Extension (s)	0.2					0.2	0.2	0.2	0.2	3.0	3.0
Recall Mode	Max					Max	Max	Max	Max	Max	Max
Walk Time (s)	5.0					5.0	3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0					0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0					0	0	0	0	0	0
Act Effct Green (s)	15.0		62.0			16.0					
Actuated g/C Ratio	0.15		0.62			0.16					
v/c Ratio	0.32		0.25			0.94					
Control Delay	35.9		5.4			68.1					
Queue Delay	0.0		0.8			45.8					
Total Delay	35.9		6.2			113.8					
LOS	D		A			F					
Approach Delay	35.9		6.2			113.8					
Approach LOS	D		A			F					

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.96
Intersection Signal Delay:	73.3
Intersection LOS:	E
Intersection Capacity Utilization	28.6%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	26	290	504
v/c Ratio	0.32	0.25	0.94
Control Delay	35.9	5.4	68.1
Queue Delay	0.0	0.8	45.8
Total Delay	35.9	6.2	113.8
Queue Length 50th (ft)	7	55	168
Queue Length 95th (ft)	27	54	#268
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	82	1143	539
Starvation Cap Reductn	0	568	0
Spillback Cap Reductn	0	0	121
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.32	0.50	1.21

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Volume (vph)	10	10	258	0	0	459
Future Volume (vph)	10	10	258	0	0	459
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.55		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.93		1.00			1.00
Flt Protected	0.98		1.00			1.00
Satd. Flow (prot)	474		1845			3374
Flt Permitted	0.98		1.00			1.00
Satd. Flow (perm)	474		1845			3374
Peak-hour factor, PHF	0.75	0.75	0.89	0.92	0.92	0.91
Adj. Flow (vph)	13	13	290	0	0	504
RTOR Reduction (vph)	11	0	0	0	0	0
Lane Group Flow (vph)	15	0	290	0	0	504
Confl. Peds. (#/hr)		405				
Heavy Vehicles (%)	100%	100%	3%	2%	2%	7%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	71		1033			539
v/s Ratio Prot	c0.03		c0.16			c0.15
v/s Ratio Perm						
v/c Ratio	0.21		0.28			0.94
Uniform Delay, d1	37.3		11.5			41.5
Progression Factor	1.00		0.87			1.00
Incremental Delay, d2	6.6		0.7			25.6
Delay (s)	43.9		10.7			67.1
Level of Service	D		B			E
Approach Delay (s)	43.9		10.7			67.1
Approach LOS	D		B			E

Intersection Summary

HCM 2000 Control Delay	46.4	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.34		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	28.6%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.46	2.22	2.22
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	70	0	0	0	0	824
Future Volume (vph)	70	0	0	0	0	824
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1703	0	0	0	0	3471
Flt Permitted	0.950					
Satd. Flow (perm)	1703	0	0	0	0	3471
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	150					
Peak Hour Factor	0.69	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	6%	2%	2%	2%	2%	4%
Adj. Flow (vph)	101	0	0	0	0	896
Shared Lane Traffic (%)						
Lane Group Flow (vph)	101	0	0	0	0	896
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	58.5%
ICU Level of Service	B
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	70	979
Future Volume (vph)	0	0	0	0	70	979
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.996
Satd. Flow (prot)	0	0	0	0	0	3452
Flt Permitted						0.996
Satd. Flow (perm)	0	0	0	0	0	3452
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.69	0.86
Heavy Vehicles (%)	2%	2%	2%	2%	6%	4%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	101	1138
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	1239
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	58.5%
Analysis Period (min)	15
	ICU Level of Service B

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	258	38	165	346	427	175	221	0	88	39		
Future Volume (vph)	258	38	165	346	427	175	221	0	88	39		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.88		0.10					0.38				
Frt	0.980			0.850	0.850	0.865		0.870				
Flt Protected			0.950				0.950	0.993				
Satd. Flow (prot)	3034	0	1770	1599	1615	1611	1618	567	0	0		
Flt Permitted			0.950				0.950	0.993				
Satd. Flow (perm)	3034	0	177	1599	1615	1611	1618	567	0	0		
Right Turn on Red		Yes			Yes	Yes				Yes		
Satd. Flow (RTOR)	185				454	457		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		839	839		139	231					153	
Peak Hour Factor	0.88	0.84	0.94	0.95	0.94	0.81	0.93	0.92	0.78	0.73		
Heavy Vehicles (%)	3%	0%	2%	1%	0%	2%	6%	2%	1%	16%		
Adj. Flow (vph)	293	45	176	364	454	216	238	0	113	53		
Shared Lane Traffic (%)							11%					
Lane Group Flow (vph)	338	0	176	364	454	216	212	192	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		15.0			15.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	8.0	2.0	2.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		36.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.36	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.48		0.50	0.54	0.40	0.33	0.39	0.67				
Control Delay	18.9		30.6	25.5	1.7	1.3	6.0	24.0				
Queue Delay	0.0		0.0	0.0	0.1	0.0	3.4	68.0				
Total Delay	18.9		30.6	25.5	1.8	1.3	9.3	92.0				
LOS	B		C	C	A	A	A	F				
Approach Delay	18.9		15.6					48.6				
Approach LOS	B		B					D				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.67
Intersection Signal Delay:	21.4
Intersection LOS:	C
Intersection Capacity Utilization	57.6%
ICU Level of Service	B
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	184	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	338	176	364	454	216	212	192
v/c Ratio	0.48	0.50	0.54	0.40	0.33	0.39	0.67
Control Delay	18.9	30.6	25.5	1.7	1.3	6.0	24.0
Queue Delay	0.0	0.0	0.0	0.1	0.0	3.4	68.0
Total Delay	18.9	30.6	25.5	1.8	1.3	9.3	92.0
Queue Length 50th (ft)	44	78	170	0	0	13	85
Queue Length 95th (ft)	84	146	260	27	0	26	#151
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	697	350	671	1127	664	550	286
Starvation Cap Reductn	0	0	0	0	0	246	147
Spillback Cap Reductn	0	0	0	122	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.48	0.50	0.54	0.45	0.33	0.70	1.38

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↶	↶	↶	↵	↷		
Traffic Volume (vph)	258	38	165	346	427	175	221	0	88	39
Future Volume (vph)	258	38	165	346	427	175	221	0	88	39
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.88		1.00	1.00	1.00	1.00	1.00	0.38		
Flpb, ped/bikes	1.00		0.15	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.87		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	3034		261	1599	1615	1611	1618	567		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	3034		261	1599	1615	1611	1618	567		
Peak-hour factor, PHF	0.88	0.84	0.94	0.95	0.94	0.81	0.93	0.92	0.78	0.73
Adj. Flow (vph)	293	45	176	364	454	216	238	0	113	53
RTOR Reduction (vph)	152	0	0	0	227	177	0	97	0	0
Lane Group Flow (vph)	186	0	176	364	227	39	212	95	0	0
Confl. Peds. (#/hr)		839	839		139	231				153
Heavy Vehicles (%)	3%	0%	2%	1%	0%	2%	6%	2%	1%	16%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	546		109	671	807	289	517	181		
v/s Ratio Prot	0.06		c0.29	0.23	0.14	0.02	0.13	c0.17		
v/s Ratio Perm			0.39							
v/c Ratio	0.34		1.61	0.54	0.28	0.13	0.41	0.53		
Uniform Delay, d1	35.8		35.2	21.8	14.5	34.5	26.6	27.8		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.16	1.41		
Incremental Delay, d2	1.7		314.7	3.1	0.9	1.0	2.1	9.2		
Delay (s)	37.5		349.9	24.9	15.4	35.4	6.4	48.3		
Level of Service	D		F	C	B	D	A	D		
Approach Delay (s)	37.5		78.1					26.3		
Approach LOS	D		E					C		
Intersection Summary										
HCM 2000 Control Delay			55.6			HCM 2000 Level of Service			E	
HCM 2000 Volume to Capacity ratio			1.14							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)		26.0		
Intersection Capacity Utilization			57.6%			ICU Level of Service			B	
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.76	2.09	2.20	2.28	1.61	2.23
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	639	125
Future Volume (vph)	0	0	0	0	639	125
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt						0.971
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3423	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3423	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						506
Peak Hour Factor	0.92	0.92	0.92	0.92	0.94	0.76
Heavy Vehicles (%)	2%	2%	2%	2%	3%	0%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	680	164
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	844	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	26.6%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street


















01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	129	509	0	0	51	14	75	0	0	
Future Volume (vph)	0	0	0	129	509	0	0	51	14	75	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.967												
Flt Protected					0.990					0.950			
Satd. Flow (prot)	0	0	1863	0	3436	0	0	1837	0	1805	0	0	
Flt Permitted					0.990					0.950			
Satd. Flow (perm)	0	0	1863	0	3436	0	0	1837	0	1805	0	0	
Link Speed (mph)	30				30				30		30		
Link Distance (ft)	141				238				236		337		
Travel Time (s)	3.2				5.4				5.4		7.7		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.93	0.92	0.92	0.74	0.65	0.88	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	4%	4%	2%	2%	0%	0%	0%	2%	2%	
Adj. Flow (vph)	0	0	0	140	547	0	0	69	22	85	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	687	0	0	91	0	85	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0				0				12		12		
Link Offset(ft)	0				0				0		0		
Crosswalk Width(ft)	16				16				16		16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15		9		15		9		15		9		
Sign Control	Free				Free				Stop				
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	35.3%						ICU Level of Service A						
Analysis Period (min)	15												

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	129	509	0	0	51	14	75	0	0
Future Volume (Veh/h)	0	0	0	129	509	0	0	51	14	75	0	0
Sign Control	Free		Free		Free		Stop		Stop		Stop	
Grade	0%		0%		0%		0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.93	0.92	0.92	0.74	0.65	0.88	0.92	0.92
Hourly flow rate (vph)	0	0	0	140	547	0	0	69	22	85	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None				None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	547		0		827		827		274		610	
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	547		0		827		827		274		610	
tC, single (s)	4.1		4.2		7.5		6.5		6.9		7.5	
tC, 2 stage (s)												
tF (s)	2.2		2.2		3.5		4.0		3.3		3.5	
p0 queue free %	100		91		100		76		97		70	
cM capacity (veh/h)	1018		1607		246		282		730		282	
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	322	365	91	85							
Volume Left	0	140	0	0	85							
Volume Right	0	0	0	22	0							
cSH	1700	1607	1700	331	282							
Volume to Capacity	0.00	0.09	0.21	0.27	0.30							
Queue Length 95th (ft)	0	7	0	27	31							
Control Delay (s)	0.0	3.6	0.0	19.9	23.2							
Lane LOS		A		C	C							
Approach Delay (s)	0.0	1.7		19.9	23.2							
Approach LOS				C	C							
Intersection Summary												
Average Delay			5.7									
Intersection Capacity Utilization			35.3%		ICU Level of Service		A					
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	78	851	63	179	9	0	0	0	0
Future Volume (vph)	0	0	0	78	851	63	179	9	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.988							
Flt Protected					0.996			0.957				
Satd. Flow (prot)	0	0	1863	0	3454	0	0	1779	0	0	0	1863
Flt Permitted					0.996			0.957				
Satd. Flow (perm)	0	0	1863	0	3454	0	0	1779	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				62		139						
Peak Hour Factor	0.92	0.92	0.92	0.97	0.92	0.72	0.89	0.40	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	1%	1%	24%	1%	13%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	80	925	88	201	23	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1093	0	0	224	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	45.3%					ICU Level of Service A						
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis

4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	78	851	63	179	9	0	0	0	0
Future Volume (Veh/h)	0	0	0	78	851	63	179	9	0	0	0	0
Sign Control		Free			Free			Stop				Stop
Grade		0%			0%			0%				0%
Peak Hour Factor	0.92	0.92	0.92	0.97	0.92	0.72	0.89	0.40	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	80	925	88	201	23	0	0	0	0
Pedestrians								62				139
Lane Width (ft)								12.0				12.0
Walking Speed (ft/s)								3.5				3.5
Percent Blockage								6				13
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1152			62			684	1374	62	1280	1330	646
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1152			62			684	1374	62	1280	1330	646
tC, single (s)	4.1			4.1			7.5	6.8	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.1	3.3	3.5	4.0	3.3
p0 queue free %	100			95			23	77	100	100	100	100
cM capacity (veh/h)	523			1455			261	101	931	73	118	360
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	542	550	224	0							
Volume Left	0	80	0	201	0							
Volume Right	0	0	88	0	0							
cSH	1700	1455	1700	225	1700							
Volume to Capacity	0.00	0.05	0.32	1.00	0.00							
Queue Length 95th (ft)	0	4	0	228	0							
Control Delay (s)	0.0	1.6	0.0	105.4	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	0.8		105.4	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay				18.6								
Intersection Capacity Utilization			45.3%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Lane Configurations											
Traffic Volume (vph)	6	9	447	0	0	333					
Future Volume (vph)	6	9	447	0	0	333					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.49										
Frt	0.924										
Flt Protected	0.979										
Satd. Flow (prot)	421	0	1900	0	0	3471					
Flt Permitted	0.979										
Satd. Flow (perm)	421	0	1900	0	0	3471					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	13										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		398									
Peak Hour Factor	0.63	0.67	0.93	0.92	0.92	0.98					
Heavy Vehicles (%)	100%	100%	0%	2%	2%	4%					
Adj. Flow (vph)	10	13	481	0	0	340					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	23	0	481	0	0	340					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	8.0					10.0	3.0	15.0	15.0	2.0	2.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings

5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%				18.0%		6%	24%	24%	7%	7%
Maximum Green (s)	10.0				14.0		4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0				3.0		2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0				1.0		0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0				-2.0						
Total Lost Time (s)	-1.0				2.0						
Lead/Lag					Lag		Lag		Lead		Lead
Lead-Lag Optimize?					Yes		Yes		Yes		Yes
Vehicle Extension (s)	0.2				0.2		0.2	0.2	0.2	3.0	3.0
Recall Mode	Max				Max		Max	Max	Max	Max	Max
Walk Time (s)	5.0				5.0		3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0				0.0		0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0				0		0	0	0	184	0
Act Effct Green (s)	15.0		62.0		16.0						
Actuated g/C Ratio	0.15		0.62		0.16						
v/c Ratio	0.31		0.41		0.61						
Control Delay	35.8		6.7		44.5						
Queue Delay	0.0		0.6		8.5						
Total Delay	35.8		7.3		52.9						
LOS	D		A		D						
Approach Delay	35.8		7.3		52.9						
Approach LOS	D		A		D						

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.67
Intersection Signal Delay:	26.5
Intersection LOS:	C
Intersection Capacity Utilization:	36.9%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	23	481	340
v/c Ratio	0.31	0.41	0.61
Control Delay	35.8	6.7	44.5
Queue Delay	0.0	0.6	8.5
Total Delay	35.8	7.3	52.9
Queue Length 50th (ft)	6	103	107
Queue Length 95th (ft)	18	101	155
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	74	1178	555
Starvation Cap Reductn	0	347	0
Spillback Cap Reductn	0	0	175
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.31	0.58	0.89
Intersection Summary			

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	↘		↑			↑↑
Traffic Volume (vph)	6	9	447	0	0	333
Future Volume (vph)	6	9	447	0	0	333
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.49		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.92		1.00			1.00
Flt Protected	0.98		1.00			1.00
Satd. Flow (prot)	421		1900			3471
Flt Permitted	0.98		1.00			1.00
Satd. Flow (perm)	421		1900			3471
Peak-hour factor, PHF	0.63	0.67	0.93	0.92	0.92	0.98
Adj. Flow (vph)	10	13	481	0	0	340
RTOR Reduction (vph)	11	0	0	0	0	0
Lane Group Flow (vph)	12	0	481	0	0	340
Confl. Peds. (#/hr)		398				
Heavy Vehicles (%)	100%	100%	0%	2%	2%	4%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	63		1064			555
v/s Ratio Prot	c0.03		c0.25			c0.10
v/s Ratio Perm						
v/c Ratio	0.19		0.45			0.61
Uniform Delay, d1	37.2		13.0			39.1
Progression Factor	1.00		0.91			1.00
Incremental Delay, d2	6.6		1.3			5.0
Delay (s)	43.8		13.1			44.1
Level of Service	D		B			D
Approach Delay (s)	43.8		13.1			44.1
Approach LOS	D		B			D

Intersection Summary

HCM 2000 Control Delay	26.4	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.36		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	36.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.46	2.22	2.23
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	89	0	0	0	0	654
Future Volume (vph)	89	0	0	0	0	654
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1805	0	0	0	0	3471
Flt Permitted	0.950					
Satd. Flow (perm)	1805	0	0	0	0	3471
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	333					
Peak Hour Factor	0.88	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	2%	2%	2%	4%
Adj. Flow (vph)	101	0	0	0	0	711
Shared Lane Traffic (%)						
Lane Group Flow (vph)	101	0	0	0	0	711
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	53.3%
	ICU Level of Service A
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	89	938
Future Volume (vph)	0	0	0	0	89	938
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.995
Satd. Flow (prot)	0	0	0	0	0	3560
Flt Permitted						0.995
Satd. Flow (perm)	0	0	0	0	0	3560
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.88	0.97
Heavy Vehicles (%)	2%	2%	2%	2%	0%	1%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	101	967
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	1068
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	53.3%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	241	42	130	272	244	159	195	0	71	40		
Future Volume (vph)	241	42	130	272	244	159	195	0	71	40		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.86							0.52				
Frt	0.977			0.850	0.850	0.865		0.879				
Flt Protected			0.950				0.950	0.991				
Satd. Flow (prot)	2940	0	1770	1583	1615	1644	1665	762	0	0		
Flt Permitted			0.950				0.950	0.991				
Satd. Flow (perm)	2940	0	1770	1583	1615	1644	1665	762	0	0		
Right Turn on Red		Yes			Yes	Yes					Yes	
Satd. Flow (RTOR)	185				271	467		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		500			84	200					91	
Peak Hour Factor	0.89	0.88	0.89	0.86	0.90	0.90	0.83	0.92	0.80	0.68		
Heavy Vehicles (%)	4%	2%	2%	2%	0%	0%	3%	2%	3%	18%		
Adj. Flow (vph)	271	48	146	316	271	177	235	0	89	59		
Shared Lane Traffic (%)							15%					
Lane Group Flow (vph)	319	0	146	316	271	177	200	183	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		13.0			13.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	10.0	5.0	5.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		42.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.42	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.47		0.20	0.48	0.26	0.26	0.35	0.52				
Control Delay	17.6		19.3	24.0	1.4	0.9	4.9	11.1				
Queue Delay	0.0		0.0	0.0	0.0	0.0	2.3	44.4				
Total Delay	17.6		19.3	24.0	1.4	0.9	7.2	55.5				
LOS	B		B	C	A	A	A	E				
Approach Delay	17.6		14.7					30.3				
Approach LOS	B		B					C				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.58
Intersection Signal Delay:	17.5
Intersection LOS:	B
Intersection Capacity Utilization	54.3%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	0	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	319	146	316	271	177	200	183
v/c Ratio	0.47	0.20	0.48	0.26	0.26	0.35	0.52
Control Delay	17.6	19.3	24.0	1.4	0.9	4.9	11.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	2.3	44.4
Total Delay	17.6	19.3	24.0	1.4	0.9	7.2	55.5
Queue Length 50th (ft)	38	58	143	0	0	9	68
Queue Length 95th (ft)	78	98	208	22	0	14	116
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	680	743	664	1050	678	566	352
Starvation Cap Reductn	0	0	0	0	0	249	175
Spillback Cap Reductn	0	0	0	47	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.47	0.20	0.48	0.27	0.26	0.63	1.03
Intersection Summary							

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↘	↘	↘	↘	↘	↕		
Traffic Volume (vph)	241	42	130	272	244	159	195	0	71	40
Future Volume (vph)	241	42	130	272	244	159	195	0	71	40
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.86		1.00	1.00	1.00	1.00	1.00	0.52		
Flpb, ped/bikes	1.00		1.00	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.88		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	2941		1770	1583	1615	1644	1665	761		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	2941		1770	1583	1615	1644	1665	761		
Peak-hour factor, PHF	0.89	0.88	0.89	0.86	0.90	0.90	0.83	0.92	0.80	0.68
Adj. Flow (vph)	271	48	146	316	271	177	235	0	89	59
RTOR Reduction (vph)	152	0	0	0	136	145	0	97	0	0
Lane Group Flow (vph)	167	0	146	316	136	32	200	86	0	0
Confl. Peds. (#/hr)		500			84	200				91
Heavy Vehicles (%)	4%	2%	2%	2%	0%	0%	3%	2%	3%	18%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	529		743	664	807	295	532	243		
v/s Ratio Prot	0.06		0.04	c0.20	0.08	0.02	c0.12	0.11		
v/s Ratio Perm			0.05							
v/c Ratio	0.32		0.20	0.48	0.17	0.11	0.38	0.36		
Uniform Delay, d1	35.6		22.3	21.0	13.6	34.3	26.3	26.1		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.13	0.82		
Incremental Delay, d2	1.6		0.6	2.4	0.4	0.7	1.7	3.5		
Delay (s)	37.2		22.9	23.5	14.1	35.0	5.3	24.8		
Level of Service	D		C	C	B	D	A	C		
Approach Delay (s)	37.2		19.9					14.6		
Approach LOS	D		B					B		
Intersection Summary										
HCM 2000 Control Delay			23.7			HCM 2000 Level of Service				C
HCM 2000 Volume to Capacity ratio			0.43							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)				26.0
Intersection Capacity Utilization			54.3%			ICU Level of Service				A
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.71	2.06	2.18	2.19	1.58	2.17
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	688	147
Future Volume (vph)	0	0	0	0	688	147
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt	0.972					
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3447	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3447	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						694
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.84
Heavy Vehicles (%)	2%	2%	2%	2%	2%	1%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	748	175
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	923	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	29.0%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street

01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	127	551	0	0	5	16	133	0	0	
Future Volume (vph)	0	0	0	127	551	0	0	5	16	133	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.895												
Flt Protected					0.991					0.950			
Satd. Flow (prot)	0	0	1863	0	3507	0	0	1700	0	1787	0	0	
Flt Permitted					0.991					0.950			
Satd. Flow (perm)	0	0	1863	0	3507	0	0	1700	0	1787	0	0	
Link Speed (mph)	30		30			30			30				
Link Distance (ft)	141			238			230			337			
Travel Time (s)	3.2		5.4			5.2			7.7				
Peak Hour Factor	0.92	0.92	0.92	0.92	0.90	0.92	0.92	0.58	0.50	0.74	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	0%	0%	1%	2%	2%	
Adj. Flow (vph)	0	0	0	138	612	0	0	9	32	180	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	750	0	0	41	0	180	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0		0			12			12				
Link Offset(ft)	0			0			0			0			
Crosswalk Width(ft)	16			16			16			16			
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9		15	9		15	9		15	9		
Sign Control	Free			Free			Stop			Stop			


















Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	39.6%
ICU Level of Service	A
Analysis Period (min)	15

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	127	551	0	0	5	16	133	0	0
Future Volume (Veh/h)	0	0	0	127	551	0	0	5	16	133	0	0
Sign Control	Free		Free		Free		Stop		Stop		Stop	
Grade	0%		0%		0%		0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.90	0.92	0.92	0.58	0.50	0.74	0.92	0.92
Hourly flow rate (vph)	0	0	0	138	612	0	0	9	32	180	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None				None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	612		0		888		888		306		618	
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	612		0		888		888		306		618	
tC, single (s)	4.1		4.1		7.5		6.5		6.9		7.5	
tC, 2 stage (s)												
tF (s)	2.2		2.2		3.5		4.0		3.3		3.5	
p0 queue free %	100		91		100		97		95		45	
cM capacity (veh/h)	963		1622		223		261		696		326	
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	342	408	41	180							
Volume Left	0	138	0	0	180							
Volume Right	0	0	0	32	0							
cSH	1700	1622	1700	509	326							
Volume to Capacity	0.00	0.09	0.24	0.08	0.55							
Queue Length 95th (ft)	0	7	0	7	79							
Control Delay (s)	0.0	3.4	0.0	12.7	28.9							
Lane LOS		A		B	D							
Approach Delay (s)	0.0	1.6		12.7	28.9							
Approach LOS				B	D							
Intersection Summary												
Average Delay			7.1									
Intersection Capacity Utilization			39.6%		ICU Level of Service		A					
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	139	757	53	121	12	0	0	0	0
Future Volume (vph)	0	0	0	139	757	53	121	12	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Fr _t					0.990							
Fl _t Protected					0.991			0.956				
Satd. Flow (prot)	0	0	1863	0	3474	0	0	1770	0	0	0	1863
Fl _t Permitted					0.991			0.956				
Satd. Flow (perm)	0	0	1863	0	3474	0	0	1770	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				120		250						
Peak Hour Factor	0.92	0.92	0.92	0.69	0.92	0.75	0.81	0.83	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	2%	1%	13%	2%	9%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	201	823	71	149	14	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1095	0	0	163	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	41.1%			ICU Level of Service A								
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis

4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	139	757	53	121	12	0	0	0	0
Future Volume (Veh/h)	0	0	0	139	757	53	121	12	0	0	0	0
Sign Control		Free			Free			Stop				Stop
Grade		0%			0%			0%				0%
Peak Hour Factor	0.92	0.92	0.92	0.69	0.92	0.75	0.81	0.83	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	201	823	71	149	14	0	0	0	0
Pedestrians								120				250
Lane Width (ft)								12.0				12.0
Walking Speed (ft/s)								3.5				3.5
Percent Blockage								11				24
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1144			120			934	1666	120	1518	1630	697
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1144			120			934	1666	120	1518	1630	697
tC, single (s)	4.1			4.1			7.5	6.7	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.1	3.3	3.5	4.0	3.3
p0 queue free %	100			85			0	72	100	100	100	100
cM capacity (veh/h)	462			1298			130	51	805	33	57	292
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	612	482	163	0							
Volume Left	0	201	0	149	0							
Volume Right	0	0	71	0	0							
cSH	1700	1298	1700	115	1700							
Volume to Capacity	0.00	0.15	0.28	1.42	0.00							
Queue Length 95th (ft)	0	14	0	285	0							
Control Delay (s)	0.0	3.9	0.0	302.4	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	2.2		302.4	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay			41.1									
Intersection Capacity Utilization			41.1%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Lane Configurations											
Traffic Volume (vph)	10	8	246	0	0	296					
Future Volume (vph)	10	8	246	0	0	296					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.71										
Frt	0.940										
Flt Protected	0.973										
Satd. Flow (prot)	788	0	1900	0	0	3539					
Flt Permitted	0.973										
Satd. Flow (perm)	788	0	1900	0	0	3539					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	21										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		123									
Peak Hour Factor	0.38	0.38	0.92	0.92	0.92	0.90					
Heavy Vehicles (%)	67%	43%	0%	2%	2%	2%					
Adj. Flow (vph)	26	21	267	0	0	329					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	47	0	267	0	0	329					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	10.0					10.0	3.0	13.0	15.0	5.0	5.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings

5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%					18.0%	6%	24%	24%	7%	7%
Maximum Green (s)	10.0					14.0	4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0					3.0	2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0					1.0	0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0					-2.0					
Total Lost Time (s)	-1.0					2.0					
Lead/Lag						Lag		Lag		Lead	Lead
Lead-Lag Optimize?						Yes		Yes		Yes	Yes
Vehicle Extension (s)	0.2					0.2	0.2	0.2	0.2	3.0	3.0
Recall Mode	Max					Max	Max	Max	Max	Max	Max
Walk Time (s)	5.0					5.0	3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0					0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0					0	0	0	0	0	0
Act Effct Green (s)	15.0		62.0			16.0					
Actuated g/C Ratio	0.15		0.62			0.16					
v/c Ratio	0.35		0.23			0.58					
Control Delay	32.3		5.2			43.6					
Queue Delay	0.0		0.8			2.8					
Total Delay	32.3		6.0			46.3					
LOS	C		A			D					
Approach Delay	32.3		6.0			46.3					
Approach LOS	C		A			D					

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.58
Intersection Signal Delay:	28.6
Intersection LOS:	C
Intersection Capacity Utilization:	27.9%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	47	267	329
v/c Ratio	0.35	0.23	0.58
Control Delay	32.3	5.2	43.6
Queue Delay	0.0	0.8	2.8
Total Delay	32.3	6.0	46.3
Queue Length 50th (ft)	15	50	103
Queue Length 95th (ft)	13	49	149
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	136	1178	566
Starvation Cap Reductn	0	637	0
Spillback Cap Reductn	0	0	139
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.35	0.49	0.77
Intersection Summary			

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	↙		↑			↘↘
Traffic Volume (vph)	10	8	246	0	0	296
Future Volume (vph)	10	8	246	0	0	296
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.71		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.94		1.00			1.00
Flt Protected	0.97		1.00			1.00
Satd. Flow (prot)	787		1900			3539
Flt Permitted	0.97		1.00			1.00
Satd. Flow (perm)	787		1900			3539
Peak-hour factor, PHF	0.38	0.38	0.92	0.92	0.92	0.90
Adj. Flow (vph)	26	21	267	0	0	329
RTOR Reduction (vph)	18	0	0	0	0	0
Lane Group Flow (vph)	29	0	267	0	0	329
Confl. Peds. (#/hr)		123				
Heavy Vehicles (%)	67%	43%	0%	2%	2%	2%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	118		1064			566
v/s Ratio Prot	c0.04		c0.14			c0.09
v/s Ratio Perm						
v/c Ratio	0.25		0.25			0.58
Uniform Delay, d1	37.5		11.3			38.9
Progression Factor	1.00		0.86			1.00
Incremental Delay, d2	4.9		0.6			4.3
Delay (s)	42.4		10.3			43.2
Level of Service	D		B			D
Approach Delay (s)	42.4		10.3			43.2
Approach LOS	D		B			D

Intersection Summary

HCM 2000 Control Delay	29.5	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.27		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	27.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.48	2.16	2.15
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	210	0	0	0	0	595
Future Volume (vph)	210	0	0	0	0	595
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1787	0	0	0	0	3539
Flt Permitted	0.950					
Satd. Flow (perm)	1787	0	0	0	0	3539
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	150					
Peak Hour Factor	0.78	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	1%	2%	2%	2%	2%	2%
Adj. Flow (vph)	269	0	0	0	0	647
Shared Lane Traffic (%)						
Lane Group Flow (vph)	269	0	0	0	0	647
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	47.1%
ICU Level of Service	A
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	210	646
Future Volume (vph)	0	0	0	0	210	646
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.986
Satd. Flow (prot)	0	0	0	0	0	3524
Flt Permitted						0.986
Satd. Flow (perm)	0	0	0	0	0	3524
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.78	0.94
Heavy Vehicles (%)	2%	2%	2%	2%	1%	1%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	269	687
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	956
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	47.1%
Analysis Period (min)	15
	ICU Level of Service A

Intersection Sign configuration not allowed in HCM analysis.

APPENDIX F.3 – 2025 DESIGN YEAR BUILD ANALYSIS

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	397	40	279	451	263	127	311	0	120	30		
Future Volume (vph)	397	40	279	451	263	127	311	0	120	30		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.91		0.10					0.59				
Frt	0.985			0.850	0.850	0.865		0.884				
Flt Protected			0.950				0.950	0.989				
Satd. Flow (prot)	3115	0	1736	1553	1568	1536	1649	798	0	0		
Flt Permitted			0.950				0.950	0.989				
Satd. Flow (perm)	3115	0	174	1553	1568	1536	1649	798	0	0		
Right Turn on Red		Yes			Yes	Yes				Yes		
Satd. Flow (RTOR)	185				296	359		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		298	298		31	82			59			
Peak Hour Factor	0.89	0.79	0.86	0.71	0.89	0.94	0.93	0.92	0.81	0.64		
Heavy Vehicles (%)	4%	0%	4%	4%	3%	7%	4%	2%	15%	39%		
Adj. Flow (vph)	446	51	324	635	296	135	334	0	148	47		
Shared Lane Traffic (%)							17%					
Lane Group Flow (vph)	497	0	324	635	296	135	277	252	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		13.0			13.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	10.0	5.0	5.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		36.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.36	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.70		0.94	0.97	0.29	0.24	0.49	0.69				
Control Delay	29.7		71.1	59.4	1.4	1.0	3.4	17.1				
Queue Delay	0.0		0.0	0.0	0.0	0.0	12.0	65.6				
Total Delay	29.7		71.1	59.4	1.5	1.0	15.4	82.7				
LOS	C		E	E	A	A	B	F				
Approach Delay	29.7		48.7					47.5				
Approach LOS	C		D					D				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.97
Intersection Signal Delay:	41.9
Intersection LOS:	D
Intersection Capacity Utilization	63.1%
ICU Level of Service	B
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	0	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	497	324	635	296	135	277	252
v/c Ratio	0.70	0.94	0.97	0.29	0.24	0.49	0.69
Control Delay	29.7	71.1	59.4	1.4	1.0	3.4	17.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	12.0	65.6
Total Delay	29.7	71.1	59.4	1.5	1.0	15.4	82.7
Queue Length 50th (ft)	98	184	388	0	0	9	92
Queue Length 95th (ft)	153	#328	381	22	0	m11	m98
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	712	343	652	1033	570	560	365
Starvation Cap Reductn	0	0	0	0	0	254	202
Spillback Cap Reductn	0	0	0	55	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.70	0.94	0.97	0.30	0.24	0.91	1.55

Intersection Summary

- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
- m Volume for 95th percentile queue is metered by upstream signal.

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↶	↶	↶	↵	↷		
Traffic Volume (vph)	397	40	279	451	263	127	311	0	120	30
Future Volume (vph)	397	40	279	451	263	127	311	0	120	30
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.91		1.00	1.00	1.00	1.00	1.00	0.59		
Flpb, ped/bikes	1.00		0.15	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.88		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	3114		256	1553	1568	1536	1649	798		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	3114		256	1553	1568	1536	1649	798		
Peak-hour factor, PHF	0.89	0.79	0.86	0.71	0.89	0.94	0.93	0.92	0.81	0.64
Adj. Flow (vph)	446	51	324	635	296	135	334	0	148	47
RTOR Reduction (vph)	152	0	0	0	148	111	0	97	0	0
Lane Group Flow (vph)	345	0	324	635	148	24	277	155	0	0
Confl. Peds. (#/hr)		298	298		31	82			59	
Heavy Vehicles (%)	4%	0%	4%	4%	3%	7%	4%	2%	15%	39%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	560		107	652	784	276	527	255		
v/s Ratio Prot	0.11		c0.54	0.41	0.09	0.02	0.17	c0.19		
v/s Ratio Perm			0.72							
v/c Ratio	0.62		3.03	0.97	0.19	0.09	0.53	0.61		
Uniform Delay, d1	37.8		35.2	28.5	13.8	34.2	27.8	28.7		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.08	0.99		
Incremental Delay, d2	5.0		937.1	29.4	0.5	0.6	1.4	4.0		
Delay (s)	42.8		972.3	57.9	14.3	34.8	3.7	32.3		
Level of Service	D		F	E	B	C	A	C		
Approach Delay (s)	42.8		283.7					17.4		
Approach LOS	D		F					B		
Intersection Summary										
HCM 2000 Control Delay			161.9			HCM 2000 Level of Service		F		
HCM 2000 Volume to Capacity ratio			1.97							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)		26.0		
Intersection Capacity Utilization			63.1%			ICU Level of Service		B		
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.95	2.18	2.34	2.36	1.55	2.22
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	801	77
Future Volume (vph)	0	0	0	0	801	77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt	0.984					
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3383	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3383	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						175
Peak Hour Factor	0.92	0.92	0.92	0.92	0.85	0.67
Heavy Vehicles (%)	2%	2%	2%	2%	5%	5%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	942	115
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	1057	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	28.6%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street


















01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	82	713	0	0	9	6	129	0	0	
Future Volume (vph)	0	0	0	82	713	0	0	9	6	129	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.942												
Flt Protected					0.994					0.950			
Satd. Flow (prot)	0	0	1863	0	3384	0	0	1790	0	1770	0	0	
Flt Permitted					0.994					0.950			
Satd. Flow (perm)	0	0	1863	0	3384	0	0	1790	0	1770	0	0	
Link Speed (mph)	30				30				30		30		
Link Distance (ft)	141				238				230		337		
Travel Time (s)	3.2				5.4				5.2		7.7		
Peak Hour Factor	0.92	0.92	0.92	0.66	0.84	0.92	0.92	0.58	0.50	0.72	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	20%	4%	2%	2%	0%	0%	2%	2%	2%	
Adj. Flow (vph)	0	0	0	124	849	0	0	16	12	179	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	973	0	0	28	0	179	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0				0				12		12		
Link Offset(ft)	0				0				0		0		
Crosswalk Width(ft)	16				16				16		16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15		9		15		9		15		9		
Sign Control	Free				Free				Stop		Stop		
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	42.6%				ICU Level of Service A								
Analysis Period (min)	15												

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	82	713	0	0	9	6	129	0	0
Future Volume (Veh/h)	0	0	0	82	713	0	0	9	6	129	0	0
Sign Control	Free		Free		Free		Stop		Stop		Stop	
Grade	0%		0%		0%		0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.66	0.84	0.92	0.92	0.58	0.50	0.72	0.92	0.92
Hourly flow rate (vph)	0	0	0	124	849	0	0	16	12	179	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None				None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	849		0		1097		1097		424		692	
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	849		0		1097		1097		424		692	
tC, single (s)	4.1		4.5		7.5		6.5		6.9		7.5	
tC, 2 stage (s)												
tF (s)	2.2		2.4		3.5		4.0		3.3		3.5	
p0 queue free %	100		92		100		92		98		37	
cM capacity (veh/h)	785		1500		157		197		584		284	
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	407	566	28	179							
Volume Left	0	124	0	0	179							
Volume Right	0	0	0	12	0							
cSH	1700	1500	1700	275	284							
Volume to Capacity	0.00	0.08	0.33	0.10	0.63							
Queue Length 95th (ft)	0	7	0	8	98							
Control Delay (s)	0.0	2.8	0.0	19.6	37.0							
Lane LOS		A		C	E							
Approach Delay (s)	0.0	1.2		19.6	37.0							
Approach LOS				C	E							
Intersection Summary												
Average Delay			7.1									
Intersection Capacity Utilization			42.6%		ICU Level of Service		A					
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	131	825	36	75	12	0	0	0	0
Future Volume (vph)	0	0	0	131	825	36	75	12	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.993							
Flt Protected					0.992			0.959				
Satd. Flow (prot)	0	0	1863	0	3428	0	0	1527	0	0	0	1863
Flt Permitted					0.992			0.959				
Satd. Flow (perm)	0	0	1863	0	3428	0	0	1527	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				47		47						
Peak Hour Factor	0.92	0.92	0.92	0.71	0.97	0.77	0.68	0.63	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	2%	3%	24%	14%	50%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	185	851	47	110	19	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1083	0	0	129	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	39.3%					ICU Level of Service A						
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis











4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	131	825	36	75	12	0	0	0	0
Future Volume (Veh/h)	0	0	0	131	825	36	75	12	0	0	0	0
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.71	0.97	0.77	0.68	0.63	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	185	851	47	110	19	0	0	0	0
Pedestrians								47			47	
Lane Width (ft)								12.0			12.0	
Walking Speed (ft/s)								3.5			3.5	
Percent Blockage								4			4	
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	945			47			842	1362	47	1301	1338	496
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	945			47			842	1362	47	1301	1338	496
tC, single (s)	4.1			4.1			7.8	7.5	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.6	4.5	3.3	3.5	4.0	3.3
p0 queue free %	100			88			43	76	100	100	100	100
cM capacity (veh/h)	689			1489			192	78	967	78	121	496
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	610	472	129	0							
Volume Left	0	185	0	110	0							
Volume Right	0	0	47	0	0							
cSH	1700	1489	1700	158	1700							
Volume to Capacity	0.00	0.12	0.28	0.82	0.00							
Queue Length 95th (ft)	0	11	0	134	0							
Control Delay (s)	0.0	3.2	0.0	86.8	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	1.8		86.8	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay			10.9									
Intersection Capacity Utilization			39.3%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021

							Ø2	Ø7	Ø8	Ø9	Ø10
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT					
Lane Configurations						 					
Traffic Volume (vph)	11	11	262	0	0	465					
Future Volume (vph)	11	11	262	0	0	465					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.55										
Frt	0.932										
Flt Protected	0.976										
Satd. Flow (prot)	474	0	1845	0	0	3374					
Flt Permitted	0.976										
Satd. Flow (perm)	474	0	1845	0	0	3374					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	15										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		405									
Peak Hour Factor	0.75	0.75	0.89	0.92	0.92	0.91					
Heavy Vehicles (%)	100%	100%	3%	2%	2%	7%					
Adj. Flow (vph)	15	15	294	0	0	511					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	30	0	294	0	0	511					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	10.0					10.0	3.0	13.0	15.0	5.0	5.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings
5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%					18.0%	6%	24%	24%	7%	7%
Maximum Green (s)	10.0					14.0	4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0					3.0	2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0					1.0	0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0					-2.0					
Total Lost Time (s)	-1.0					2.0					
Lead/Lag						Lag		Lag		Lead	Lead
Lead-Lag Optimize?						Yes		Yes		Yes	Yes
Vehicle Extension (s)	0.2					0.2	0.2	0.2	0.2	3.0	3.0
Recall Mode	Max					Max	Max	Max	Max	Max	Max
Walk Time (s)	5.0					5.0	3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0					0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0					0	0	0	0	0	0
Act Effct Green (s)	15.0		62.0			16.0					
Actuated g/C Ratio	0.15		0.62			0.16					
v/c Ratio	0.36		0.26			0.95					
Control Delay	37.4		5.4			70.4					
Queue Delay	0.0		0.8			44.3					
Total Delay	37.4		6.2			114.7					
LOS	D		A			F					
Approach Delay	37.4		6.2			114.7					
Approach LOS	D		A			F					

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.97
Intersection Signal Delay:	73.7
Intersection LOS:	E
Intersection Capacity Utilization:	28.8%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	30	294	511
v/c Ratio	0.36	0.26	0.95
Control Delay	37.4	5.4	70.4
Queue Delay	0.0	0.8	44.3
Total Delay	37.4	6.2	114.7
Queue Length 50th (ft)	9	56	171
Queue Length 95th (ft)	30	55	#274
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	83	1143	539
Starvation Cap Reductn	0	562	0
Spillback Cap Reductn	0	0	121
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.36	0.51	1.22

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Volume (vph)	11	11	262	0	0	465
Future Volume (vph)	11	11	262	0	0	465
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.55		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.93		1.00			1.00
Flt Protected	0.98		1.00			1.00
Satd. Flow (prot)	474		1845			3374
Flt Permitted	0.98		1.00			1.00
Satd. Flow (perm)	474		1845			3374
Peak-hour factor, PHF	0.75	0.75	0.89	0.92	0.92	0.91
Adj. Flow (vph)	15	15	294	0	0	511
RTOR Reduction (vph)	13	0	0	0	0	0
Lane Group Flow (vph)	17	0	294	0	0	511
Confl. Peds. (#/hr)		405				
Heavy Vehicles (%)	100%	100%	3%	2%	2%	7%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	71		1033			539
v/s Ratio Prot	c0.04		c0.16			c0.15
v/s Ratio Perm						
v/c Ratio	0.24		0.28			0.95
Uniform Delay, d1	37.5		11.5			41.6
Progression Factor	1.00		0.87			1.00
Incremental Delay, d2	8.0		0.7			27.8
Delay (s)	45.4		10.7			69.4
Level of Service	D		B			E
Approach Delay (s)	45.4		10.7			69.4
Approach LOS	D		B			E

Intersection Summary

HCM 2000 Control Delay	47.9	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.35		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	28.8%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.47	2.22	2.22
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	71	0	0	0	0	835
Future Volume (vph)	71	0	0	0	0	835
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1703	0	0	0	0	3471
Flt Permitted	0.950					
Satd. Flow (perm)	1703	0	0	0	0	3471
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	150					
Peak Hour Factor	0.69	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	6%	2%	2%	2%	2%	4%
Adj. Flow (vph)	103	0	0	0	0	908
Shared Lane Traffic (%)						
Lane Group Flow (vph)	103	0	0	0	0	908
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	59.3%
	ICU Level of Service B
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	71	993
Future Volume (vph)	0	0	0	0	71	993
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.996
Satd. Flow (prot)	0	0	0	0	0	3452
Flt Permitted						0.996
Satd. Flow (perm)	0	0	0	0	0	3452
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.69	0.86
Heavy Vehicles (%)	2%	2%	2%	2%	6%	4%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	103	1155
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	1258
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	59.3%			ICU Level of Service B		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↔				
Traffic Volume (vph)	263	39	169	352	436	179	227	0	90	40		
Future Volume (vph)	263	39	169	352	436	179	227	0	90	40		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.88		0.10					0.39				
Frt	0.980			0.850	0.850	0.865		0.871				
Flt Protected			0.950				0.950	0.993				
Satd. Flow (prot)	3033	0	1770	1599	1615	1611	1618	569	0	0		
Flt Permitted			0.950				0.950	0.993				
Satd. Flow (perm)	3033	0	177	1599	1615	1611	1618	569	0	0		
Right Turn on Red		Yes			Yes	Yes				Yes		
Satd. Flow (RTOR)	185				464	450		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		839	839		139	231					153	
Peak Hour Factor	0.88	0.84	0.94	0.95	0.94	0.81	0.93	0.92	0.78	0.73		
Heavy Vehicles (%)	3%	0%	2%	1%	0%	2%	6%	2%	1%	16%		
Adj. Flow (vph)	299	46	180	371	464	221	244	0	115	55		
Shared Lane Traffic (%)							11%					
Lane Group Flow (vph)	345	0	180	371	464	221	217	197	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		15.0			15.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	8.0	2.0	2.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		36.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.36	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.49		0.51	0.55	0.41	0.34	0.39	0.69				
Control Delay	19.4		31.1	25.8	1.7	1.4	6.1	24.8				
Queue Delay	0.0		0.0	0.0	0.1	0.0	3.6	67.6				
Total Delay	19.4		31.1	25.8	1.9	1.4	9.8	92.4				
LOS	B		C	C	A	A	A	F				
Approach Delay	19.4		15.8					49.1				
Approach LOS	B		B					D				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.69
Intersection Signal Delay:	21.7
Intersection LOS:	C
Intersection Capacity Utilization	57.9%
ICU Level of Service	B
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	184	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	345	180	371	464	221	217	197
v/c Ratio	0.49	0.51	0.55	0.41	0.34	0.39	0.69
Control Delay	19.4	31.1	25.8	1.7	1.4	6.1	24.8
Queue Delay	0.0	0.0	0.0	0.1	0.0	3.6	67.6
Total Delay	19.4	31.1	25.8	1.9	1.4	9.8	92.4
Queue Length 50th (ft)	46	81	175	0	0	14	88
Queue Length 95th (ft)	86	150	267	28	0	27	#157
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	697	350	671	1131	658	550	287
Starvation Cap Reductn	0	0	0	0	0	246	147
Spillback Cap Reductn	0	0	0	126	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.49	0.51	0.55	0.46	0.34	0.71	1.41

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↵	↵	↵	↵	↕		
Traffic Volume (vph)	263	39	169	352	436	179	227	0	90	40
Future Volume (vph)	263	39	169	352	436	179	227	0	90	40
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.88		1.00	1.00	1.00	1.00	1.00	0.39		
Flpb, ped/bikes	1.00		0.15	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.87		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	3033		261	1599	1615	1611	1618	569		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	3033		261	1599	1615	1611	1618	569		
Peak-hour factor, PHF	0.88	0.84	0.94	0.95	0.94	0.81	0.93	0.92	0.78	0.73
Adj. Flow (vph)	299	46	180	371	464	221	244	0	115	55
RTOR Reduction (vph)	152	0	0	0	232	181	0	97	0	0
Lane Group Flow (vph)	193	0	180	371	232	40	217	100	0	0
Confl. Peds. (#/hr)		839	839		139	231				153
Heavy Vehicles (%)	3%	0%	2%	1%	0%	2%	6%	2%	1%	16%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	545		109	671	807	289	517	182		
v/s Ratio Prot	0.06		c0.30	0.23	0.14	0.02	0.13	c0.18		
v/s Ratio Perm			0.39							
v/c Ratio	0.35		1.65	0.55	0.29	0.14	0.42	0.55		
Uniform Delay, d1	35.9		35.2	21.9	14.6	34.5	26.7	28.1		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.17	1.37		
Incremental Delay, d2	1.8		330.3	3.3	0.9	1.0	2.1	9.9		
Delay (s)	37.7		365.5	25.2	15.5	35.5	6.6	48.3		
Level of Service	D		F	C	B	D	A	D		
Approach Delay (s)	37.7		81.1					26.5		
Approach LOS	D		F					C		
Intersection Summary										
HCM 2000 Control Delay			57.2			HCM 2000 Level of Service		E		
HCM 2000 Volume to Capacity ratio			1.17							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)		26.0		
Intersection Capacity Utilization			57.9%			ICU Level of Service		B		
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.77	2.10	2.20	2.28	1.62	2.24
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	653	127
Future Volume (vph)	0	0	0	0	653	127
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt					0.971	
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3423	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3423	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						506
Peak Hour Factor	0.92	0.92	0.92	0.92	0.94	0.76
Heavy Vehicles (%)	2%	2%	2%	2%	3%	0%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	695	167
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	862	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop		Stop		Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	27.1%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street


















01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	136	516	0	0	52	15	81	0	0	
Future Volume (vph)	0	0	0	136	516	0	0	52	15	81	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.967												
Flt Protected					0.990					0.950			
Satd. Flow (prot)	0	0	1863	0	3436	0	0	1837	0	1805	0	0	
Flt Permitted					0.990					0.950			
Satd. Flow (perm)	0	0	1863	0	3436	0	0	1837	0	1805	0	0	
Link Speed (mph)	30				30				30		30		
Link Distance (ft)	141				238				236		337		
Travel Time (s)	3.2				5.4				5.4		7.7		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.93	0.92	0.92	0.74	0.65	0.88	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	4%	4%	2%	2%	0%	0%	0%	2%	2%	
Adj. Flow (vph)	0	0	0	148	555	0	0	70	23	92	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	703	0	0	93	0	92	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0				0				12		12		
Link Offset(ft)	0				0				0		0		
Crosswalk Width(ft)	16				16				16		16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9		15	9		15	9		15	9		
Sign Control	Free				Free				Stop		Stop		
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	36.0%				ICU Level of Service A								
Analysis Period (min)	15												

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	136	516	0	0	52	15	81	0	0
Future Volume (Veh/h)	0	0	0	136	516	0	0	52	15	81	0	0
Sign Control	Free		Free		Free		Stop		Stop		Stop	
Grade	0%		0%		0%		0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.93	0.92	0.92	0.74	0.65	0.88	0.92	0.92
Hourly flow rate (vph)	0	0	0	148	555	0	0	70	23	92	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None				None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	555		0		851		851		278		632	
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	555		0		851		851		278		632	
tC, single (s)	4.1		4.2		7.5		6.5		6.9		7.5	
tC, 2 stage (s)												
tF (s)	2.2		2.2		3.5		4.0		3.3		3.5	
p0 queue free %	100		91		100		74		97		66	
cM capacity (veh/h)	1011		1607		236		272		726		267	
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	333	370	93	92							
Volume Left	0	148	0	0	92							
Volume Right	0	0	0	23	0							
cSH	1700	1607	1700	322	267							
Volume to Capacity	0.00	0.09	0.22	0.29	0.34							
Queue Length 95th (ft)	0	8	0	29	37							
Control Delay (s)	0.0	3.7	0.0	20.7	25.4							
Lane LOS		A		C	D							
Approach Delay (s)	0.0	1.8		20.7	25.4							
Approach LOS				C	D							
Intersection Summary												
Average Delay			6.2									
Intersection Capacity Utilization			36.0%		ICU Level of Service		A					
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	84	862	69	187	10	0	0	0	0
Future Volume (vph)	0	0	0	84	862	69	187	10	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.987							
Flt Protected					0.996			0.957				
Satd. Flow (prot)	0	0	1863	0	3446	0	0	1778	0	0	0	1863
Flt Permitted					0.996			0.957				
Satd. Flow (perm)	0	0	1863	0	3446	0	0	1778	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				62		139						
Peak Hour Factor	0.92	0.92	0.92	0.97	0.92	0.72	0.89	0.40	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	1%	1%	24%	1%	13%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	87	937	96	210	25	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1120	0	0	235	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	46.5%					ICU Level of Service A						
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis











4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	84	862	69	187	10	0	0	0	0
Future Volume (Veh/h)	0	0	0	84	862	69	187	10	0	0	0	0
Sign Control		Free			Free			Stop				Stop
Grade		0%			0%			0%				0%
Peak Hour Factor	0.92	0.92	0.92	0.97	0.92	0.72	0.89	0.40	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	87	937	96	210	25	0	0	0	0
Pedestrians								62				139
Lane Width (ft)								12.0				12.0
Walking Speed (ft/s)								3.5				3.5
Percent Blockage								6				13
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1172			62			704	1408	62	1310	1360	656
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1172			62			704	1408	62	1310	1360	656
tC, single (s)	4.1			4.1			7.5	6.8	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.1	3.3	3.5	4.0	3.3
p0 queue free %	100			94			16	74	100	100	100	100
cM capacity (veh/h)	513			1455			251	96	931	67	113	354
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	556	564	235	0							
Volume Left	0	87	0	210	0							
Volume Right	0	0	96	0	0							
cSH	1700	1455	1700	214	1700							
Volume to Capacity	0.00	0.06	0.33	1.10	0.00							
Queue Length 95th (ft)	0	5	0	269	0							
Control Delay (s)	0.0	1.7	0.0	136.9	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	0.9		136.9	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay				24.5								
Intersection Capacity Utilization			46.5%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021

							Ø2	Ø7	Ø8	Ø9	Ø10
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT					
Lane Configurations						 					
Traffic Volume (vph)	7	10	456	0	0	341					
Future Volume (vph)	7	10	456	0	0	341					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.48										
Frt	0.922										
Flt Protected	0.979										
Satd. Flow (prot)	411	0	1900	0	0	3471					
Flt Permitted	0.979										
Satd. Flow (perm)	411	0	1900	0	0	3471					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	15										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		398									
Peak Hour Factor	0.63	0.67	0.93	0.92	0.92	0.98					
Heavy Vehicles (%)	100%	100%	0%	2%	2%	4%					
Adj. Flow (vph)	11	15	490	0	0	348					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	26	0	490	0	0	348					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	8.0					10.0	3.0	15.0	15.0	2.0	2.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings

5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%					18.0%	6%	24%	24%	7%	7%
Maximum Green (s)	10.0					14.0	4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0					3.0	2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0					1.0	0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0					-2.0					
Total Lost Time (s)	-1.0					2.0					
Lead/Lag						Lag		Lag		Lead	Lead
Lead-Lag Optimize?						Yes		Yes		Yes	Yes
Vehicle Extension (s)	0.2					0.2	0.2	0.2	0.2	3.0	3.0
Recall Mode	Max					Max	Max	Max	Max	Max	Max
Walk Time (s)	5.0					5.0	3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0					0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0					0	0	0	0	184	0
Act Effct Green (s)	15.0		62.0			16.0					
Actuated g/C Ratio	0.15		0.62			0.16					
v/c Ratio	0.35		0.42			0.63					
Control Delay	37.2		6.8			44.9					
Queue Delay	0.0		0.6			10.4					
Total Delay	37.2		7.4			55.3					
LOS	D		A			E					
Approach Delay	37.2		7.4			55.3					
Approach LOS	D		A			E					

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.69
Intersection Signal Delay:	27.6
Intersection LOS:	C
Intersection Capacity Utilization:	37.3%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	26	490	348
v/c Ratio	0.35	0.42	0.63
Control Delay	37.2	6.8	44.9
Queue Delay	0.0	0.6	10.4
Total Delay	37.2	7.4	55.3
Queue Length 50th (ft)	6	106	110
Queue Length 95th (ft)	20	103	158
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	74	1178	555
Starvation Cap Reductn	0	334	0
Spillback Cap Reductn	0	0	176
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.35	0.58	0.92
Intersection Summary			

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	↔		↑			↗↗
Traffic Volume (vph)	7	10	456	0	0	341
Future Volume (vph)	7	10	456	0	0	341
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frpb, ped/bikes	0.48		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.92		1.00			1.00
Flt Protected	0.98		1.00			1.00
Satd. Flow (prot)	411		1900			3471
Flt Permitted	0.98		1.00			1.00
Satd. Flow (perm)	411		1900			3471
Peak-hour factor, PHF	0.63	0.67	0.93	0.92	0.92	0.98
Adj. Flow (vph)	11	15	490	0	0	348
RTOR Reduction (vph)	13	0	0	0	0	0
Lane Group Flow (vph)	13	0	490	0	0	348
Confl. Peds. (#/hr)		398				
Heavy Vehicles (%)	100%	100%	0%	2%	2%	4%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	61		1064			555
v/s Ratio Prot	c0.03		c0.26			c0.10
v/s Ratio Perm						
v/c Ratio	0.22		0.46			0.63
Uniform Delay, d1	37.3		13.0			39.2
Progression Factor	1.00		0.91			1.00
Incremental Delay, d2	8.0		1.3			5.3
Delay (s)	45.3		13.2			44.5
Level of Service	D		B			D
Approach Delay (s)	45.3		13.2			44.5
Approach LOS	D		B			D

Intersection Summary

HCM 2000 Control Delay	26.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.37		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	37.3%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.46	2.23	2.23
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	91	0	0	0	0	669
Future Volume (vph)	91	0	0	0	0	669
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1805	0	0	0	0	3471
Flt Permitted	0.950					
Satd. Flow (perm)	1805	0	0	0	0	3471
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	333					
Peak Hour Factor	0.88	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	2%	2%	2%	4%
Adj. Flow (vph)	103	0	0	0	0	727
Shared Lane Traffic (%)						
Lane Group Flow (vph)	103	0	0	0	0	727
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

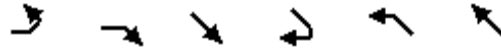
Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	54.3%
	ICU Level of Service A
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	91	957
Future Volume (vph)	0	0	0	0	91	957
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.995
Satd. Flow (prot)	0	0	0	0	0	3560
Flt Permitted						0.995
Satd. Flow (perm)	0	0	0	0	0	3560
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.88	0.97
Heavy Vehicles (%)	2%	2%	2%	2%	0%	1%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	103	987
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	1090
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	54.3%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Lane Configurations	↑↑		↘	↗	↗	↗	↘	↕				
Traffic Volume (vph)	246	43	133	277	251	162	201	0	72	41		
Future Volume (vph)	246	43	133	277	251	162	201	0	72	41		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Lane Util. Factor	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00		
Ped Bike Factor	0.86							0.52				
Frt	0.977			0.850	0.850	0.865		0.879				
Flt Protected			0.950				0.950	0.990				
Satd. Flow (prot)	2939	0	1770	1583	1615	1644	1665	763	0	0		
Flt Permitted			0.950				0.950	0.990				
Satd. Flow (perm)	2939	0	1770	1583	1615	1644	1665	763	0	0		
Right Turn on Red		Yes			Yes	Yes				Yes		
Satd. Flow (RTOR)	185				279	459		142				
Link Speed (mph)	30		30					30				
Link Distance (ft)	870		151					118				
Travel Time (s)	19.8		3.4					2.7				
Confl. Peds. (#/hr)		500			84	200				91		
Peak Hour Factor	0.89	0.88	0.89	0.86	0.90	0.90	0.83	0.92	0.80	0.68		
Heavy Vehicles (%)	4%	2%	2%	2%	0%	0%	3%	2%	3%	18%		
Adj. Flow (vph)	276	49	149	322	279	180	242	0	90	60		
Shared Lane Traffic (%)							15%					
Lane Group Flow (vph)	325	0	149	322	279	180	206	186	0	0		
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Right	Right	Right	Left	Left	Right	Right		
Median Width(ft)	0		12					12				
Link Offset(ft)	0		0					0				
Crosswalk Width(ft)	16		16					16				
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15	9	9	9	15		9	9		
Number of Detectors	1		1	1	1	1	1	1				
Detector Template	Thru		Left	Right	Right	Right	Left	Thru				
Leading Detector (ft)	50		20	50	50	50	50	50				
Trailing Detector (ft)	0		0	0	0	0	0	0				
Detector 1 Position(ft)	0		0	0	0	0	0	0				
Detector 1 Size(ft)	50		20	50	50	50	50	50				
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex				
Detector 1 Channel												
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA				
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3			1	2
Permitted Phases			8									
Detector Phase	8		7	7 8	1 7 8	7	1 2 3	1 2 3				
Switch Phase												
Minimum Initial (s)	15.0		13.0			13.0					10.0	3.0
Minimum Split (s)	21.0		21.0			21.0					14.0	5.0
Total Split (s)	24.0		24.0			24.0					18.0	6.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Lane Configurations			
Traffic Volume (vph)			
Future Volume (vph)			
Ideal Flow (vphpl)			
Lane Util. Factor			
Ped Bike Factor			
Frt			
Flt Protected			
Satd. Flow (prot)			
Flt Permitted			
Satd. Flow (perm)			
Right Turn on Red			
Satd. Flow (RTOR)			
Link Speed (mph)			
Link Distance (ft)			
Travel Time (s)			
Confl. Peds. (#/hr)			
Peak Hour Factor			
Heavy Vehicles (%)			
Adj. Flow (vph)			
Shared Lane Traffic (%)			
Lane Group Flow (vph)			
Enter Blocked Intersection			
Lane Alignment			
Median Width(ft)			
Link Offset(ft)			
Crosswalk Width(ft)			
Two way Left Turn Lane			
Headway Factor			
Turning Speed (mph)			
Number of Detectors			
Detector Template			
Leading Detector (ft)			
Trailing Detector (ft)			
Detector 1 Position(ft)			
Detector 1 Size(ft)			
Detector 1 Type			
Detector 1 Channel			
Detector 1 Extend (s)			
Detector 1 Queue (s)			
Detector 1 Delay (s)			
Turn Type			
Protected Phases	3	9	10
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	10.0	5.0	5.0
Minimum Split (s)	14.0	7.0	7.0
Total Split (s)	14.0	7.0	7.0

Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2	Ø1	Ø2
Total Split (%)	24.0%		24.0%			24.0%					18%	6%
Maximum Green (s)	18.0		18.0			18.0					14.0	4.0
Yellow Time (s)	4.0		4.0			4.0					3.0	2.0
All-Red Time (s)	2.0		2.0			2.0					1.0	0.0
Lost Time Adjust (s)	0.0		0.0			0.0						
Total Lost Time (s)	6.0		6.0			6.0						
Lead/Lag			Lag			Lag					Lag	
Lead-Lag Optimize?			Yes			Yes					Yes	
Vehicle Extension (s)	0.2		0.2			0.2					0.2	0.2
Recall Mode	Max		Max			Max					Max	Max
Walk Time (s)	5.0		5.0			5.0					5.0	3.0
Flash Dont Walk (s)	0.0		0.0			0.0					0.0	0.0
Pedestrian Calls (#/hr)	0		0			0					0	0
Act Effct Green (s)	18.0		42.0	42.0	58.0	18.0	34.0	34.0				
Actuated g/C Ratio	0.18		0.42	0.42	0.58	0.18	0.34	0.34				
v/c Ratio	0.48		0.20	0.48	0.26	0.27	0.36	0.53				
Control Delay	18.0		19.3	24.2	1.4	1.0	5.0	11.3				
Queue Delay	0.0		0.0	0.0	0.0	0.0	2.5	47.5				
Total Delay	18.0		19.3	24.2	1.4	1.0	7.5	58.9				
LOS	B		B	C	A	A	A	E				
Approach Delay	18.0		14.8					31.9				
Approach LOS	B		B					C				

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.60
Intersection Signal Delay:	18.0
Intersection LOS:	B
Intersection Capacity Utilization	54.7%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 1: Day Street/College Avenue & Highland Avenue & Holland Street



Lanes, Volumes, Timings

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021

Lane Group	Ø3	Ø9	Ø10
Total Split (%)	14%	7%	7%
Maximum Green (s)	10.0	5.0	5.0
Yellow Time (s)	3.0	2.0	2.0
All-Red Time (s)	1.0	0.0	0.0
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag		Lead	Lead
Lead-Lag Optimize?		Yes	Yes
Vehicle Extension (s)	0.2	3.0	3.0
Recall Mode	Max	Max	Max
Walk Time (s)	5.0	0.0	0.0
Flash Dont Walk (s)	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0	0	0
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			

Queues

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Lane Group	SBT	NWL	NWR	NWR2	NER2	SWL	SWT
Lane Group Flow (vph)	325	149	322	279	180	206	186
v/c Ratio	0.48	0.20	0.48	0.26	0.27	0.36	0.53
Control Delay	18.0	19.3	24.2	1.4	1.0	5.0	11.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	2.5	47.5
Total Delay	18.0	19.3	24.2	1.4	1.0	7.5	58.9
Queue Length 50th (ft)	41	59	146	0	0	9	69
Queue Length 95th (ft)	81	100	213	23	0	14	117
Internal Link Dist (ft)	790	71					38
Turn Bay Length (ft)							
Base Capacity (vph)	680	743	664	1053	672	566	353
Starvation Cap Reductn	0	0	0	0	0	248	175
Spillback Cap Reductn	0	0	0	49	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.48	0.20	0.48	0.28	0.27	0.65	1.04
Intersection Summary							

HCM Signalized Intersection Capacity Analysis

1: Day Street/College Avenue & Highland Avenue & Holland Street

01/04/2021



Movement	SBT	SBR2	NWL	NWR	NWR2	NER2	SWL	SWT	SWR	SWR2
Lane Configurations	↑↑		↵	↵	↵	↵	↵	↕		
Traffic Volume (vph)	246	43	133	277	251	162	201	0	72	41
Future Volume (vph)	246	43	133	277	251	162	201	0	72	41
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	4.0	6.0	4.0	4.0		
Lane Util. Factor	0.95		1.00	1.00	1.00	1.00	0.95	0.95		
Frbp, ped/bikes	0.86		1.00	1.00	1.00	1.00	1.00	0.52		
Flpb, ped/bikes	1.00		1.00	1.00	1.00	1.00	1.00	1.00		
Frt	0.98		1.00	0.85	0.85	0.86	1.00	0.88		
Flt Protected	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (prot)	2940		1770	1583	1615	1644	1665	763		
Flt Permitted	1.00		0.95	1.00	1.00	1.00	0.95	0.99		
Satd. Flow (perm)	2940		1770	1583	1615	1644	1665	763		
Peak-hour factor, PHF	0.89	0.88	0.89	0.86	0.90	0.90	0.83	0.92	0.80	0.68
Adj. Flow (vph)	276	49	149	322	279	180	242	0	90	60
RTOR Reduction (vph)	152	0	0	0	140	148	0	97	0	0
Lane Group Flow (vph)	173	0	149	322	140	32	206	89	0	0
Confl. Peds. (#/hr)		500			84	200				91
Heavy Vehicles (%)	4%	2%	2%	2%	0%	0%	3%	2%	3%	18%
Turn Type	NA		D.P+P	custom	custom	Prot	Split	NA		
Protected Phases	8		7	7 8	1 7 8	7	1 2 3	1 2 3		
Permitted Phases			8							
Actuated Green, G (s)	18.0		36.0	42.0	56.0	18.0	34.0	34.0		
Effective Green, g (s)	18.0		36.0	42.0	50.0	18.0	32.0	32.0		
Actuated g/C Ratio	0.18		0.36	0.42	0.50	0.18	0.32	0.32		
Clearance Time (s)	6.0		6.0			6.0				
Vehicle Extension (s)	0.2		0.2			0.2				
Lane Grp Cap (vph)	529		743	664	807	295	532	244		
v/s Ratio Prot	0.06		0.04	c0.20	0.09	0.02	c0.12	0.12		
v/s Ratio Perm			0.05							
v/c Ratio	0.33		0.20	0.48	0.17	0.11	0.39	0.37		
Uniform Delay, d1	35.7		22.4	21.1	13.7	34.3	26.4	26.2		
Progression Factor	1.00		1.00	1.00	1.00	1.00	0.14	0.82		
Incremental Delay, d2	1.6		0.6	2.5	0.5	0.8	1.8	3.6		
Delay (s)	37.4		23.0	23.6	14.1	35.0	5.4	25.0		
Level of Service	D		C	C	B	D	A	C		
Approach Delay (s)	37.4		20.0					14.7		
Approach LOS	D		B					B		
Intersection Summary										
HCM 2000 Control Delay			23.8			HCM 2000 Level of Service			C	
HCM 2000 Volume to Capacity ratio			0.44							
Actuated Cycle Length (s)			100.0			Sum of lost time (s)			26.0	
Intersection Capacity Utilization			54.7%			ICU Level of Service			A	
Analysis Period (min)			15							

c Critical Lane Group

Approach	EB	NB	SB	NW	NE	SW
Crosswalk Length (ft)	15.7	26.3	38.1	36.0	16.0	36.3
Crosswalk Width (ft)	12.0	12.0	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	1	2	3	3	1	3
Number of Right-Turn Islands	0	0	0	0	0	0
Type of Control	None	None	None	None	None	None
Corresponding Signal Phase	8	0	1	0	0	7
Effective Walk Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0	0	0	0
85th percentile speed (mph)	30	30	30	30	25	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.72	2.07	2.18	2.20	1.58	2.17
Pedestrian Crosswalk LOS	A	B	B	B	A	B

Lanes, Volumes, Timings
2: Elm Street & Chester Street

01/04/2021




















Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations					↑↓	
Traffic Volume (vph)	0	0	0	0	702	149
Future Volume (vph)	0	0	0	0	702	149
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Ped Bike Factor						
Frt	0.972					
Flt Protected						
Satd. Flow (prot)	0	0	0	0	3446	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	0	3446	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	375			238	295	
Travel Time (s)	8.5			5.4	6.7	
Confl. Peds. (#/hr)						694
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.84
Heavy Vehicles (%)	2%	2%	2%	2%	2%	1%
Mid-Block Traffic (%)	0%			0%	1%	
Adj. Flow (vph)	0	0	0	0	763	177
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	940	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	0			0	0	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Stop	Free	
Intersection Summary						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	29.4%			ICU Level of Service A		
Analysis Period (min)	15					

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
3: Elm Street & Grove Street


















01/04/2021

													
Lane Group	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR	
Lane Configurations					 								
Traffic Volume (vph)	0	0	0	134	558	0	0	6	17	140	0	0	
Future Volume (vph)	0	0	0	134	558	0	0	6	17	140	0	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Fr t	0.896												
Flt Protected					0.991					0.950			
Satd. Flow (prot)	0	0	1863	0	3507	0	0	1702	0	1787	0	0	
Flt Permitted					0.991					0.950			
Satd. Flow (perm)	0	0	1863	0	3507	0	0	1702	0	1787	0	0	
Link Speed (mph)	30				30			30			30		
Link Distance (ft)	141				238			230			337		
Travel Time (s)	3.2				5.4			5.2			7.7		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.90	0.92	0.92	0.58	0.50	0.74	0.92	0.92	
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	0%	0%	1%	2%	2%	
Adj. Flow (vph)	0	0	0	146	620	0	0	10	34	189	0	0	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	0	0	0	766	0	0	44	0	189	0	0	
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)	0				0			12			12		
Link Offset(ft)	0				0			0			0		
Crosswalk Width(ft)	16				16			16			16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9		15	9		15	9		15	9		
Sign Control	Free				Free			Stop			Stop		
Intersection Summary													
Area Type:	Other												
Control Type:	Unsignalized												
Intersection Capacity Utilization	40.4%				ICU Level of Service A								
Analysis Period (min)	15												

HCM Unsignalized Intersection Capacity Analysis

















3: Elm Street & Grove Street

01/04/2021

												
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations					 							
Traffic Volume (veh/h)	0	0	0	134	558	0	0	6	17	140	0	0
Future Volume (Veh/h)	0	0	0	134	558	0	0	6	17	140	0	0
Sign Control	Free			Free			Stop			Stop		
Grade	0%			0%			0%			0%		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.90	0.92	0.92	0.58	0.50	0.74	0.92	0.92
Hourly flow rate (vph)	0	0	0	146	620	0	0	10	34	189	0	0
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type	None					None						
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	620		0				912	912	310	641	912	0
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	620		0				912	912	310	641	912	0
tC, single (s)	4.1		4.1				7.5	6.5	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2		2.2				3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	100		91				100	96	95	39	100	100
cM capacity (veh/h)	956		1622				213	251	692	310	248	1084
Direction, Lane #	NB 1	SB 1	SB 2	NE 1	SW 1							
Volume Total	0	353	413	44	189							
Volume Left	0	146	0	0	189							
Volume Right	0	0	0	34	0							
cSH	1700	1622	1700	494	310							
Volume to Capacity	0.00	0.09	0.24	0.09	0.61							
Queue Length 95th (ft)	0	7	0	7	94							
Control Delay (s)	0.0	3.5	0.0	13.0	33.1							
Lane LOS		A		B	D							
Approach Delay (s)	0.0	1.6		13.0	33.1							
Approach LOS				B	D							
Intersection Summary												
Average Delay			8.1									
Intersection Capacity Utilization			40.4%		ICU Level of Service		A					
Analysis Period (min)			15									

Lanes, Volumes, Timings
4: Highland Avenue & Grove Street

















01/04/2021

												
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (vph)	0	0	0	146	767	59	128	13	0	0	0	0
Future Volume (vph)	0	0	0	146	767	59	128	13	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	0		0	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.989							
Flt Protected					0.991			0.957				
Satd. Flow (prot)	0	0	1863	0	3468	0	0	1771	0	0	0	1863
Flt Permitted					0.991			0.957				
Satd. Flow (perm)	0	0	1863	0	3468	0	0	1771	0	0	0	1863
Link Speed (mph)		30			30			30				30
Link Distance (ft)		450			383			77				162
Travel Time (s)		10.2			8.7			1.8				3.7
Confl. Peds. (#/hr)				120		250						
Peak Hour Factor	0.92	0.92	0.92	0.69	0.92	0.75	0.81	0.83	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	2%	2%	2%	2%	1%	13%	2%	9%	2%	2%	2%	2%
Adj. Flow (vph)	0	0	0	212	834	79	158	16	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1125	0	0	174	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0				0
Link Offset(ft)		0			0			0				0
Crosswalk Width(ft)		16			16			16				16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Free			Free			Stop				Stop
Intersection Summary												
Area Type:	Other											
Control Type:	Unsignalized											
Intersection Capacity Utilization	42.3%					ICU Level of Service A						
Analysis Period (min)	15											

HCM Unsignalized Intersection Capacity Analysis











4: Highland Avenue & Grove Street

01/04/2021

												
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	146	767	59	128	13	0	0	0	0
Future Volume (Veh/h)	0	0	0	146	767	59	128	13	0	0	0	0
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.69	0.92	0.75	0.81	0.83	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	212	834	79	158	16	0	0	0	0
Pedestrians								120			250	
Lane Width (ft)								12.0			12.0	
Walking Speed (ft/s)								3.5			3.5	
Percent Blockage								11			24	
Right turn flare (veh)												
Median type		None			None							
Median storage (veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1163			120			961	1707	120	1556	1668	706
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1163			120			961	1707	120	1556	1668	706
tC, single (s)	4.1			4.1			7.5	6.7	6.9	7.5	6.5	6.9
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.1	3.3	3.5	4.0	3.3
p0 queue free %	100			84			0	66	100	100	100	100
cM capacity (veh/h)	454			1298			123	47	805	29	54	288
Direction, Lane #	SE 1	NW 1	NW 2	NE 1	SW 1							
Volume Total	0	629	496	174	0							
Volume Left	0	212	0	158	0							
Volume Right	0	0	79	0	0							
cSH	1700	1298	1700	107	1700							
Volume to Capacity	0.00	0.16	0.29	1.62	0.00							
Queue Length 95th (ft)	0	15	0	331	0							
Control Delay (s)	0.0	4.0	0.0	388.0	0.0							
Lane LOS		A		F	A							
Approach Delay (s)	0.0	2.2		388.0	0.0							
Approach LOS				F	A							
Intersection Summary												
Average Delay			53.9									
Intersection Capacity Utilization			42.3%		ICU Level of Service				A			
Analysis Period (min)			15									

Lanes, Volumes, Timings
5: College Avenue

01/04/2021

							Ø2	Ø7	Ø8	Ø9	Ø10
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT					
Lane Configurations						 					
Traffic Volume (vph)	11	9	253	0	0	303					
Future Volume (vph)	11	9	253	0	0	303					
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900					
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95					
Ped Bike Factor	0.70										
Frt	0.939										
Flt Protected	0.973										
Satd. Flow (prot)	783	0	1900	0	0	3539					
Flt Permitted	0.973										
Satd. Flow (perm)	783	0	1900	0	0	3539					
Right Turn on Red		Yes		Yes							
Satd. Flow (RTOR)	24										
Link Speed (mph)	30		30			30					
Link Distance (ft)	111		118			284					
Travel Time (s)	2.5		2.7			6.5					
Confl. Peds. (#/hr)		123									
Peak Hour Factor	0.38	0.38	0.92	0.92	0.92	0.90					
Heavy Vehicles (%)	67%	43%	0%	2%	2%	2%					
Adj. Flow (vph)	29	24	275	0	0	337					
Shared Lane Traffic (%)											
Lane Group Flow (vph)	53	0	275	0	0	337					
Enter Blocked Intersection	No	No	No	No	No	No					
Lane Alignment	Left	Right	Left	Right	Left	Left					
Median Width(ft)	12		0			0					
Link Offset(ft)	0		0			0					
Crosswalk Width(ft)	16		16			16					
Two way Left Turn Lane											
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00					
Turning Speed (mph)	15	9		9	15						
Number of Detectors	1		1			1					
Detector Template	Left		Thru			Thru					
Leading Detector (ft)	50		50			50					
Trailing Detector (ft)	0		0			0					
Detector 1 Position(ft)	0		0			0					
Detector 1 Size(ft)	50		50			50					
Detector 1 Type	Cl+Ex		Cl+Ex			Cl+Ex					
Detector 1 Channel											
Detector 1 Extend (s)	0.0		0.0			0.0					
Detector 1 Queue (s)	0.0		0.0			0.0					
Detector 1 Delay (s)	0.0		0.0			0.0					
Turn Type	Prot		NA			NA					
Protected Phases	3		1 7 8			1	2	7	8	9	10
Permitted Phases											
Detector Phase	3		1 7 8			1					
Switch Phase											
Minimum Initial (s)	10.0					10.0	3.0	13.0	15.0	5.0	5.0
Minimum Split (s)	14.0					14.0	5.0	21.0	21.0	7.0	7.0
Total Split (s)	14.0					18.0	6.0	24.0	24.0	7.0	7.0

Lanes, Volumes, Timings

5: College Avenue

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø2	Ø7	Ø8	Ø9	Ø10
Total Split (%)	14.0%				18.0%		6%	24%	24%	7%	7%
Maximum Green (s)	10.0				14.0		4.0	18.0	18.0	5.0	5.0
Yellow Time (s)	3.0				3.0		2.0	4.0	4.0	2.0	2.0
All-Red Time (s)	1.0				1.0		0.0	2.0	2.0	0.0	0.0
Lost Time Adjust (s)	-5.0				-2.0						
Total Lost Time (s)	-1.0				2.0						
Lead/Lag					Lag		Lag		Lead		Lead
Lead-Lag Optimize?					Yes		Yes		Yes		Yes
Vehicle Extension (s)	0.2				0.2		0.2	0.2	0.2	3.0	3.0
Recall Mode	Max				Max		Max	Max	Max	Max	Max
Walk Time (s)	5.0				5.0		3.0	5.0	5.0	0.0	0.0
Flash Dont Walk (s)	0.0				0.0		0.0	0.0	0.0	0.0	0.0
Pedestrian Calls (#/hr)	0				0		0	0	0	0	0
Act Effct Green (s)	15.0		62.0		16.0						
Actuated g/C Ratio	0.15		0.62		0.16						
v/c Ratio	0.39		0.23		0.60						
Control Delay	33.4		5.2		43.9						
Queue Delay	0.0		0.8		3.1						
Total Delay	33.4		6.0		47.0						
LOS	C		A		D						
Approach Delay	33.4		6.0		47.0						
Approach LOS	C		A		D						

Intersection Summary

Area Type:	Other
Cycle Length:	100
Actuated Cycle Length:	100
Natural Cycle:	90
Control Type:	Semi Act-Uncoord
Maximum v/c Ratio:	0.60
Intersection Signal Delay:	29.0
Intersection LOS:	C
Intersection Capacity Utilization:	28.3%
ICU Level of Service:	A
Analysis Period (min):	15

Splits and Phases: 5: College Avenue



Queues
5: College Avenue

01/04/2021



Lane Group	WBL	NBT	SBT
Lane Group Flow (vph)	53	275	337
v/c Ratio	0.39	0.23	0.60
Control Delay	33.4	5.2	43.9
Queue Delay	0.0	0.8	3.1
Total Delay	33.4	6.0	47.0
Queue Length 50th (ft)	17	51	106
Queue Length 95th (ft)	14	52	153
Internal Link Dist (ft)	31	38	204
Turn Bay Length (ft)			
Base Capacity (vph)	137	1178	566
Starvation Cap Reductn	0	624	0
Spillback Cap Reductn	0	0	139
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.39	0.50	0.79
Intersection Summary			

HCM Signalized Intersection Capacity Analysis

5: College Avenue

01/04/2021



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Volume (vph)	11	9	253	0	0	303
Future Volume (vph)	11	9	253	0	0	303
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	-1.0		2.0			2.0
Lane Util. Factor	1.00		1.00			0.95
Frbp, ped/bikes	0.70		1.00			1.00
Flpb, ped/bikes	1.00		1.00			1.00
Frt	0.94		1.00			1.00
Flt Protected	0.97		1.00			1.00
Satd. Flow (prot)	783		1900			3539
Flt Permitted	0.97		1.00			1.00
Satd. Flow (perm)	783		1900			3539
Peak-hour factor, PHF	0.38	0.38	0.92	0.92	0.92	0.90
Adj. Flow (vph)	29	24	275	0	0	337
RTOR Reduction (vph)	20	0	0	0	0	0
Lane Group Flow (vph)	33	0	275	0	0	337
Confl. Peds. (#/hr)		123				
Heavy Vehicles (%)	67%	43%	0%	2%	2%	2%
Turn Type	Prot		NA			NA
Protected Phases	3		1 7 8			1
Permitted Phases						
Actuated Green, G (s)	10.0		56.0			14.0
Effective Green, g (s)	15.0		56.0			16.0
Actuated g/C Ratio	0.15		0.56			0.16
Clearance Time (s)	4.0					4.0
Vehicle Extension (s)	0.2					0.2
Lane Grp Cap (vph)	117		1064			566
v/s Ratio Prot	c0.04		c0.14			c0.10
v/s Ratio Perm						
v/c Ratio	0.28		0.26			0.60
Uniform Delay, d1	37.7		11.3			39.0
Progression Factor	1.00		0.87			1.00
Incremental Delay, d2	5.8		0.6			4.6
Delay (s)	43.5		10.4			43.6
Level of Service	D		B			D
Approach Delay (s)	43.5		10.4			43.6
Approach LOS	D		B			D

Intersection Summary

HCM 2000 Control Delay	29.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.28		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	28.3%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Approach	WB	NB	SB
Crosswalk Length (ft)	12.0	36.0	36.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	1	3	3
Number of Right-Turn Islands	0	0	0
Type of Control	None	None	None
Corresponding Signal Phase	1	1	3
Effective Walk Time (s)	0.0	0.0	0.0
Right Corner Size A (ft)	9.0	9.0	9.0
Right Corner Size B (ft)	9.0	9.0	9.0
Right Corner Curb Radius (ft)	0.0	0.0	0.0
Right Corner Total Area (sq.ft)	81.00	81.00	81.00
Ped. Left-Right Flow Rate (p/h)	0	0	0
Ped. Right-Left Flow Rate (p/h)	0	0	0
Ped. R. Sidewalk Flow Rate (p/h)	0	0	0
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	0	0	0
Veh. RTOR Flow in Walk (v/h)	0	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	0.0	0.0	0.0
Right Corner Quality of Service	-	-	-
Ped. Circulation Area (sq.ft)	0.0	0.0	0.0
Crosswalk Circulation Code	-	-	-
Pedestrian Delay (s/p)	50.0	50.0	50.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	1.49	2.16	2.16
Pedestrian Crosswalk LOS	A	B	B

Lanes, Volumes, Timings

7:

01/04/2021



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	213	0	0	0	0	609
Future Volume (vph)	213	0	0	0	0	609
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	0.95
Ped Bike Factor						
Frt						
Flt Protected	0.950					
Satd. Flow (prot)	1787	0	0	0	0	3539
Flt Permitted	0.950					
Satd. Flow (perm)	1787	0	0	0	0	3539
Link Speed (mph)	30		30			30
Link Distance (ft)	93		295			98
Travel Time (s)	2.1		6.7			2.2
Confl. Peds. (#/hr)	150					
Peak Hour Factor	0.78	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	1%	2%	2%	2%	2%	2%
Adj. Flow (vph)	273	0	0	0	0	662
Shared Lane Traffic (%)						
Lane Group Flow (vph)	273	0	0	0	0	662
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Yield		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	48.0%
	ICU Level of Service A
Analysis Period (min)	15

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
9: Highland Avenue

01/04/2021



Lane Group	EBL	EBR	SET	SER	NWL	NWT
Lane Configurations						↕↕
Traffic Volume (vph)	0	0	0	0	213	661
Future Volume (vph)	0	0	0	0	213	661
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.95	0.95
Fr						
Flt Protected						0.986
Satd. Flow (prot)	0	0	0	0	0	3524
Flt Permitted						0.986
Satd. Flow (perm)	0	0	0	0	0	3524
Link Speed (mph)	30		30			30
Link Distance (ft)	93		151			450
Travel Time (s)	2.1		3.4			10.2
Peak Hour Factor	0.92	0.92	0.92	0.92	0.78	0.94
Heavy Vehicles (%)	2%	2%	2%	2%	1%	1%
Mid-Block Traffic (%)	0%		0%			18%
Adj. Flow (vph)	0	0	0	0	273	703
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	0	0	976
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	48.0%
Analysis Period (min)	15
	ICU Level of Service A

Intersection Sign configuration not allowed in HCM analysis.

APPENDIX G – PEDESTRIAN ANALYSIS

Crosswalk Across Elm Street Slip Lane from Highland Avenue	
Table 2A	
Speed Limit (mph)	<25
Width (# of Lanes)	1
PLTS	1

Crosswalk Across Chester Street @ Elm Street	
Table 2A	
Speed Limit (mph)	20
Width (# of Lanes)	1
PLTS	1

Crosswalk Across Elm Street @ Chester Street (North)	
Table 2A	
Speed Limit (mph)	20
Width (# of Lanes)	2
PLTS	1
Table 2B	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
PLTS	1

Crosswalk Across Elm Street @ Chester Street (South)	
Table 2A	
Speed Limit (mph)	20
Width (# of Lanes)	2
PLTS	1
Table 2B	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
PLTS	1

Crosswalk Across Elm Street @ Grove Street

<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
<i>PLTS</i>	1
<u>Table 2B</u>	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	1

Crosswalk Across Bowers Avenue at Elm Street

<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	1
<i>PLTS</i>	1

Crosswalk Across Grove Street @ Elm Street

<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
<i>PLTS</i>	2
<u>Table 2B</u>	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	2

Crosswalk Across Winter Street at College Avenue

<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	1
<i>PLTS</i>	1

Crosswalk Across Winslow Street at College Avenue

<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	1
<i>PLTS</i>	1

Crosswalk Across College Avenue at Winslow Street	
<u>Table 2A</u>	
Speed Limit (mph)	30
Width (# of Lanes)	2
<i>PLTS</i>	2
<u>Table 2B</u>	
Speed Limit (mph)	30
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	2

Crosswalk Across Holland Street at Davis Square MBTA Station	
<u>Table 2A</u>	
Speed Limit (mph)	30
Width (# of Lanes)	2
<i>PLTS</i>	2
<u>Table 2B</u>	
Speed Limit (mph)	30
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	1

Crosswalk Across Winter Street at Holland Street	
<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	1
<i>PLTS</i>	1

Crosswalk Across Holland Street to North Corner of Winter Street	
<u>Table 2A</u>	
Speed Limit (mph)	30
Width (# of Lanes)	2
<i>PLTS</i>	2
<u>Table 2B</u>	
Speed Limit (mph)	30
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	2

Crosswalk Across Holland Street to South Corner of Winter Street	
<u>Table 2A</u>	
Speed Limit (mph)	30
Width (# of Lanes)	2
PLTS	2
<u>Table 2B</u>	
Speed Limit (mph)	30
Total Lanes Being Crossed	2
Vehicles per Day	
PLTS	2

Crosswalk Across Wallace Street at Holland Street	
<u>Table 2A</u>	
Speed Limit (mph)	25
Width (# of Lanes)	2
PLTS	2

Crosswalk Across Buena Vista Road at Holland Street	
<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
PLTS	1

Crosswalk Across Herbert Street at Day Street	
<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
PLTS	1

Crosswalk Across Meacham Road at Dover Street	
<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	1
PLTS	1

Crosswalk Across Herbert Street at Chester Street	
<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
<i>PLTS</i>	1

Crosswalk Across Grove Street at Highland Avenue South	
<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
<i>PLTS</i>	1
<u>Table 2B</u>	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	1

Crosswalk Across Grove Street at Highland Avenue North	
<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
<i>PLTS</i>	1
<u>Table 2B</u>	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	1

Crosswalk Across Highland Avenue at Grove Street

<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
<i>PLTS</i>	1
<u>Table 2B</u>	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	1

Crosswalk Across Highland Avenue at 409 Highland Avenue

<u>Table 2A</u>	
Speed Limit (mph)	20
Width (# of Lanes)	2
<i>PLTS</i>	1
<u>Table 2B</u>	
Speed Limit (mph)	20
Total Lanes Being Crossed	2
Vehicles per Day	
<i>PLTS</i>	1

APPENDIX H – BACKGROUND TRAFFIC VOLUMES
