

# PLANNING BOARD SUBMISSION 03-02-2022

# LOCUS PLAN PROJECT SITE

# PROJECT: McGrath Residences

PROJECT ADDRESS: 394 McGRATH HIGHWAY SOMERVILLE, MA

# <u>ARCHITECT</u> KHALSA DESIGN INC.

17 IVALOO STREET, SUITE 400 SOMERVILLE, MA 02143 T:(617) 591-8682 www.tkgeast.com

# <u>CIVIL</u> PETER NOLAN & ASSOCIATES LLC 697 CAMBRIDGE STREET, SUITE 103 BRIGHTON, MA 02135 T:(857) 891-7478

# **CONTEMPO BUILDERS** 100 TRADECENTER, SUITE G-700 WOBURN, MA 01801 T:(617) 610-0880

<u>CLIENT</u>

LANDSCAPE ARCHITECT **VERDANT** 318 HARVARD ST, SUITE 25 BROOKLINE, MA 02446 T:(617) 735-1180

	Drawing List	
Sheet Number	Sheet Name	Sheet Issue Date
0-Cover		
A-000	Cover Sheet	03/02/2022
1-Civil		
C-001	Existing Conditions Site Plan	3/12/2020
C-002	Proposed Civil Site Plan	3/12/2020
C-003	Civil Details	3/12/2020
C-004	Civil Details	3/12/2020
2-Landscap	e	
L-1	Landscape Plan	3/12/2020
L-2	Landscape Plan	3/12/2020
L-3	Green Score Calculations	3/12/2020
3-Architectu	ral	·
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A-019	Unit Area Plans	03/02/2022
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A-100	1st Floor Plan	03/02/2022
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AV-1	Street View	03/02/2022
AV-2	Shadow Study	03/02/2022
4-Photomet	ric	•
PM-1	Photometric Plan	03/12/20
PM-2	Photometric Plan	03/12/20

# PROJECT NAME **McGrath** Residences PROJECT ADDRESS

394 McGrath Highway Somerville, MA

CLIENT

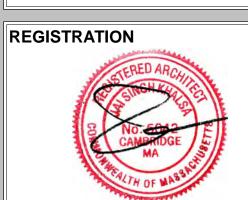
Mike Tokatlyan



17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143

CONSULTANTS:

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Project number		1905
Date		12/01/2
Drawn by		W( JSł
Checked by		JSł
Scale		6" = 1'-0
REVISI	ONS	
No.	Description	Date

**Cover Sheet** 

EXIST	ING LEGEND	
	TREE	
0	SIGN	
<b>S</b>	SEWER MANHOLE	
×	WATER VALVE	
GV ⊠	GAS VALVE	
þ	UTILITY POLE	
(M)	MANHOLE	
<b>×</b> 37.00	SPOT GRADE	
	EXISTING BUILDING	
<u> </u>	FENCE	
22	SEWER LINE	
w	WATER LINE	
OHW	OVERHEAD WIRES	
35	CONTOUR LINE (MJR)	
37	CONTOUR LINE (MNR)	

NOTES:

1. INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF A FIELD SURVEY PERFORMED BY PETER NOLAN & ASSOCIATES LLC AS OF 3/26/2019.

2. DEED REFERENCE: BOOK 30670, PAGE 390 PLAN REFERENCE: END OF BOOK 2938

MIDDLESEX COUNTY SOUTH DISTRICT REGISTRY OF DEEDS.

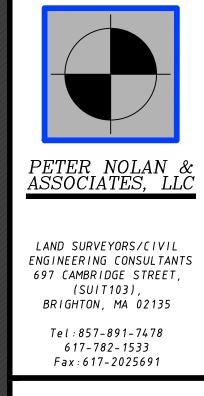
3. THIS PLAN IS NOT INTENDED TO BE RECORDED.

4. I CERTIFY THAT THE DWELLING SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X, ON FLOOD HAZARD BOUNDARY MAP NUMBER 25017C0439E, IN COMMUNITY NUMBER: 250214, DATED 6/4/2010.

5. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT USES OF THE LAND; HOWEVER THIS NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.

6. FIRST FLOOR ELEVATIONS ARE TAKEN AT THRESHOLD.

7. NO RESPONSIBILITY IS TAKEN FOR ZONING TABLE AS PETER NOLAN & ASSOCIATES LLC ARE NOT ZONING EXPERTS. TABLE IS TAKEN FROM TABLE PROVIDED BY LOCAL ZONING ORDINANCE. CLIENT AND/OR ARCHITECT TO VERIFY THE ACCURACY OF ZONING ANALYSIS.





SPRUHAN ENGINEERING, P.C.

80 JEWETT ST, (SUITE 1) NEWTON, MA 02458 Tel: 617-816-0722 Email:edmond@spruhaneng.com



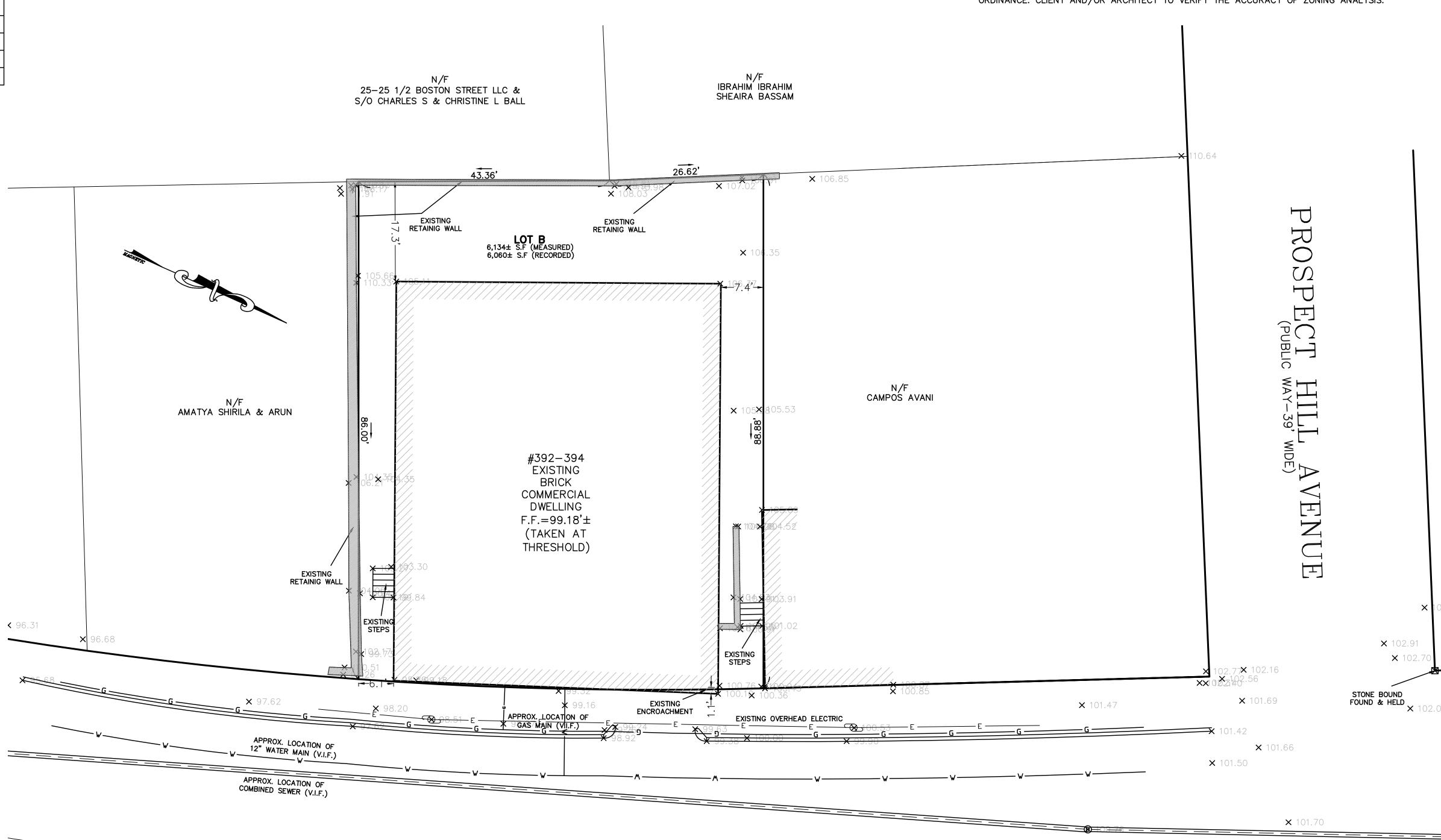
# 394 MCGRATH HIGHWAY, SOMERVILLE, **MASSACHUSETTS**

REVISION BLC	CK
DESCRIPTION	DATE

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# EXISTING CONDITIONS SITE PLAN

SCALE:	1" = 10'
DATE:	08-15-19
DRAWN BY:	AU
CHECKED BY:	PJN
APPROVED BY:	PJN



MCGRATH HIGHWAY

(PUBLIC WAY-VARIABLE WIDTH)

GRAPHIC SCALE ( IN FEET )

1 inch = 10 ft.

## TREE SIGN 0 S SEWER MANHOLE WATER VALVE × GAS VALVE Q UTILITY POLE M MANHOLE **X** 37.00 SPOT GRADE EXISTING BUILDING **FENCE** $\multimap$ SEWER LINE WATER LINE — он w —— OVERHEAD WIRES N/F IBRAHIM IBRAHIM \_\_\_35\_\_\_ | CONTOUR LINE (MJR) 25-25 1/2 BOSTON STREET LLC & SHEAIRA BASSAM CONTOUR LINE (MNR) S/O CHARLES S & CHRISTINE L BALL 43.36 **×** 106.85 LOT B 6,134± S.F (MEASURED) 6,060± S.F (RECORDED) OUTLINE OF FLOOR PARKING PARKINGE AMPARKING SPACE #2 SPACE #3 PARKING PARKING | SPACE #5 SPACE #6 **ABOVE** OUTLINE OF FLOOR **ABOVE PROPOSED** PAVED DRIVEWAY N/F CAMPOS AVANI N/F AMATYA SHIRILA & ARUN DWELLING #392-394 "PROPOSED MULTI-FAMILY RESIDENTIAL PROPOSED PAVED DRIVEWAY EXISTING RETAINIG WALL **DWELLING ×** 101.47 EXISTING OVERHEAD ELECTRIC APPROX. LOCATION OF 12" WATER MAIN (V.I.F.) PROPOSED CURB CUT PER CITY OF SØMERVILLE SPECIFICATIONS APPROX. LOCATION OF COMBINED SEWER (V.I.F.) EXISTING CURB CUT TO BE REMOVED AND SIDEWALK RESTORED MCGRATH HIGHWAY (PUBLIC WAY-VARIABLE WIDTH)

### NOTES:

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2. DEED REFERENCE: BOOK 30670, PAGE 390 PLAN REFERENCE: END OF BOOK 2938 MIDDLESEX COUNTY SOUTH DISTRICT REGISTRY OF DEEDS.

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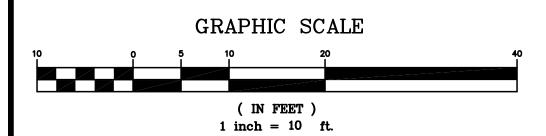
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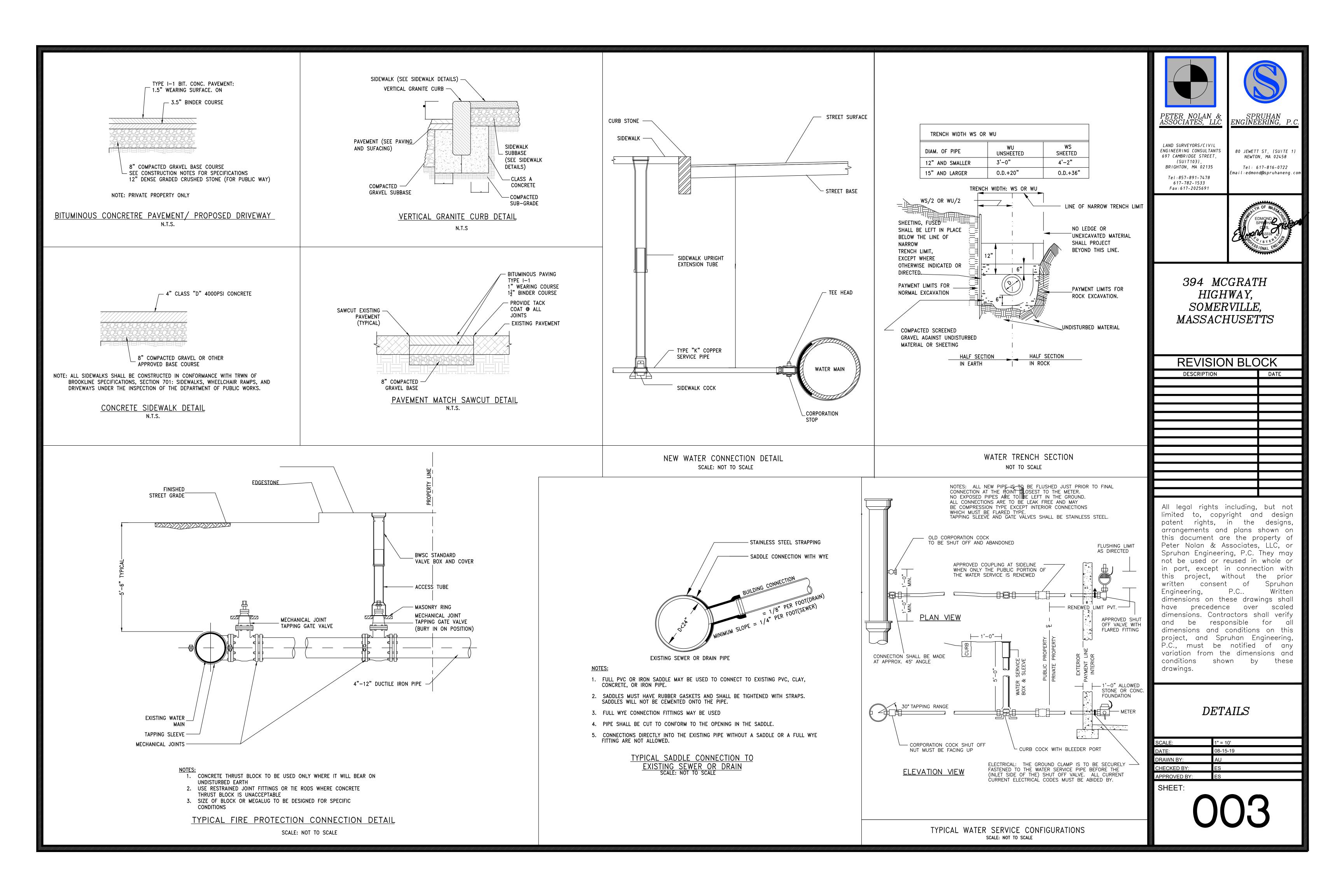
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ALE =10'				TH OF MASS
ATE /09/2020	REV	DATE	REVISION BY	PETER J.
EET			394 MCGRATH HIGHWAY SOMERVILLE	10 49185 C) STEPLE
AN NO. DF 1			MASSACHUSETTS	CHAL LAND
IENT:			PROPOSED PLOT PLAN	SHEET NO.
AWN BY				
IKD BY			TER NOLAN & ASSOCIATES LLC  ND SURVEYORS/CIVIL ENGINEERING CONSULTANTS  607 CAMPRIDGE STREET SHITE 107 PRICHTON NA 02175	002
PPD BY N		PHONE EM	697 CAMBRIDGE STREET, SUITE 103 BRIGHTON MA 02135 : 857 891 7478/617 782 1533 FAX: 617 202 5691 AIL: pnolan@pnasurveyors.com	



EXISTING LEGEND

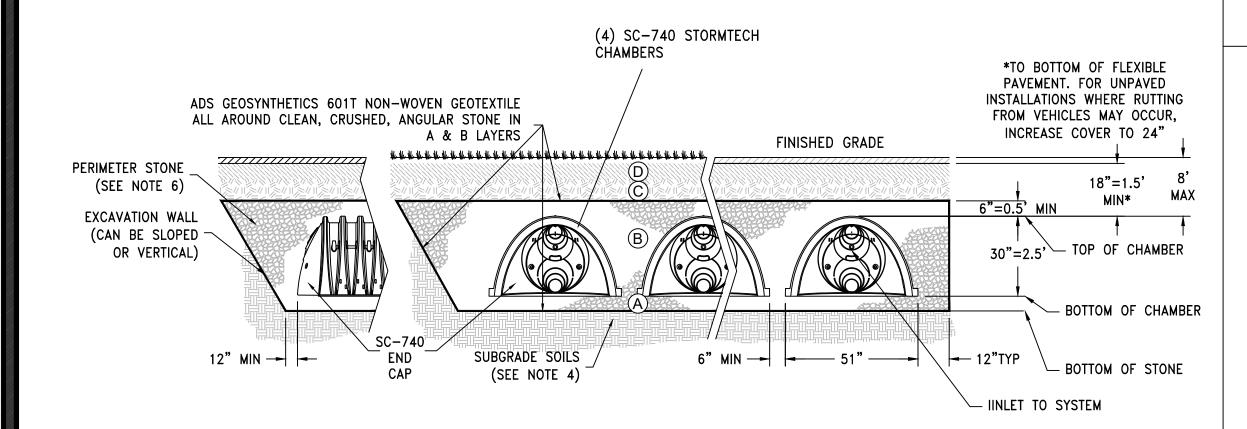


### ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.  MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. 2 3

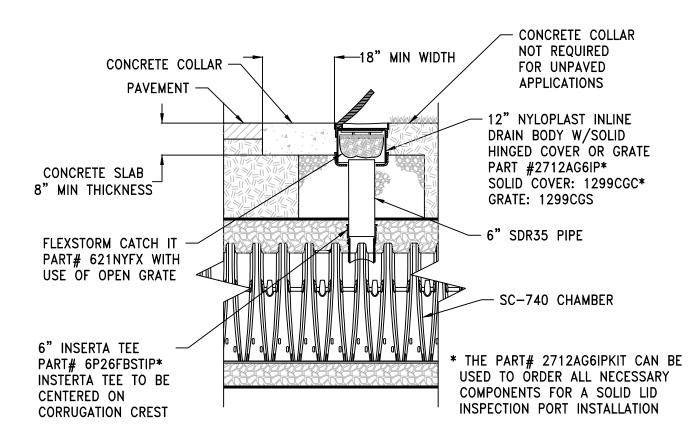
### PLEASE NOTE:

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

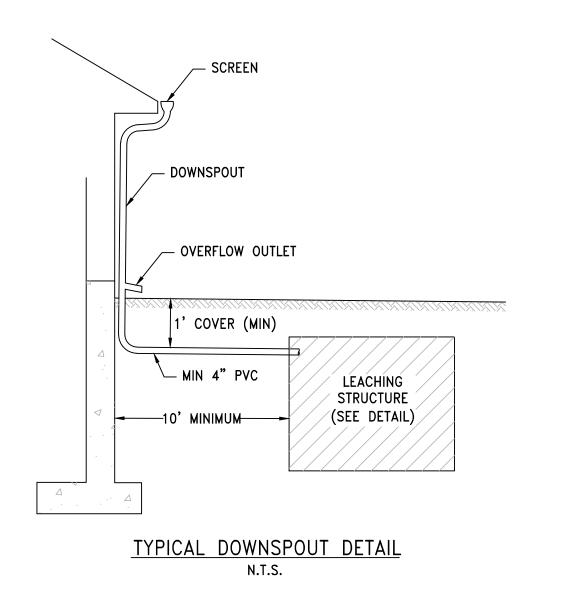


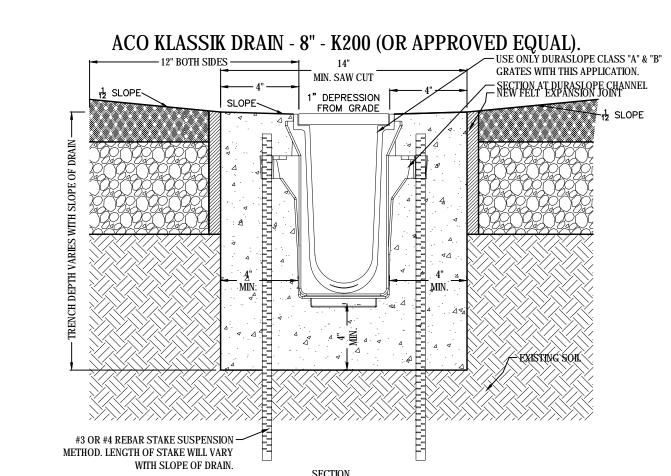
### NOTES:

- 1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- 4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



SC-740 6" INSPECTION PORT DETAIL N.T.S.





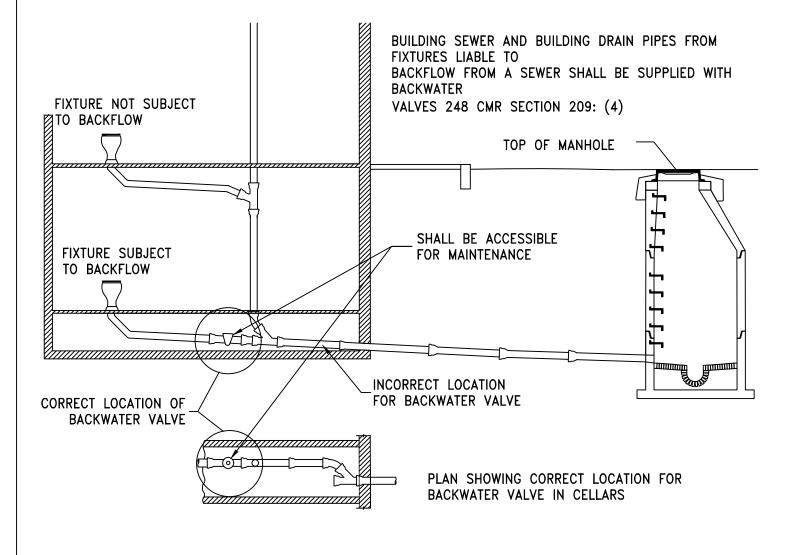
NOTES:

1. CHANNELS TO BE INSTALLED WITH BLANK GRATE. GRATE TO BE PROTECTED FROM CONCRETE POUR (COVER HOLES WITH TAPE).

2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

3. USE DS-340 UNIVERSAL OUTLET FOR 6" PIPE CONNECTION. (IF APPLICABLE)

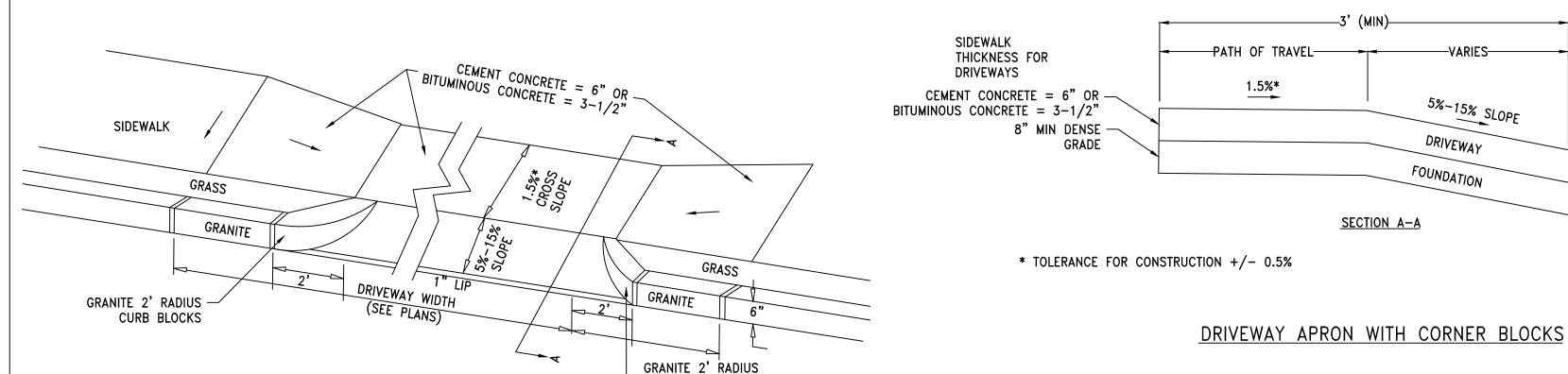
TRENCH DRAIN DETAIL N.T.S.



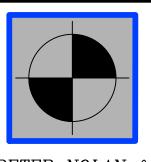
NOTE:
ALL PLUMBING FIXTURES BELOW THE LEVEL OF THE TOP OF THE MANHOLE OF THE SEWER SERVICING THE FIXTURE(S) SHALL BE CONSIDERED AS BEING SUBJECT TO BACKFLOW AND SHALL BE SUPPLIED WITH BACKWATER VALVES.

LOCATION OF BACKWATER VALVES

SCALE: NOT TO SCALE



CURB BLOCKS





PETER NOLAN & ASSOCIATES, LLC

LAND SURVEYORS/CIVIL
ENGINEERING CONSULTANTS
697 CAMBRIDGE STREET,
(SUIT103),
BRIGHTON, MA 02135

Tel:857-891-7478
617-782-1533

Fax:617-2025691

80 JEWETT ST, (SUITE 1) NEWTON, MA 02458 Tel: 617-816-0722 mail:edmond@spruhaneng.com



394 MCGRATH HIGHWAY, SOMERVILLE, MASSACHUSETTS

REVISION BLC	CK
DESCRIPTION	DATE

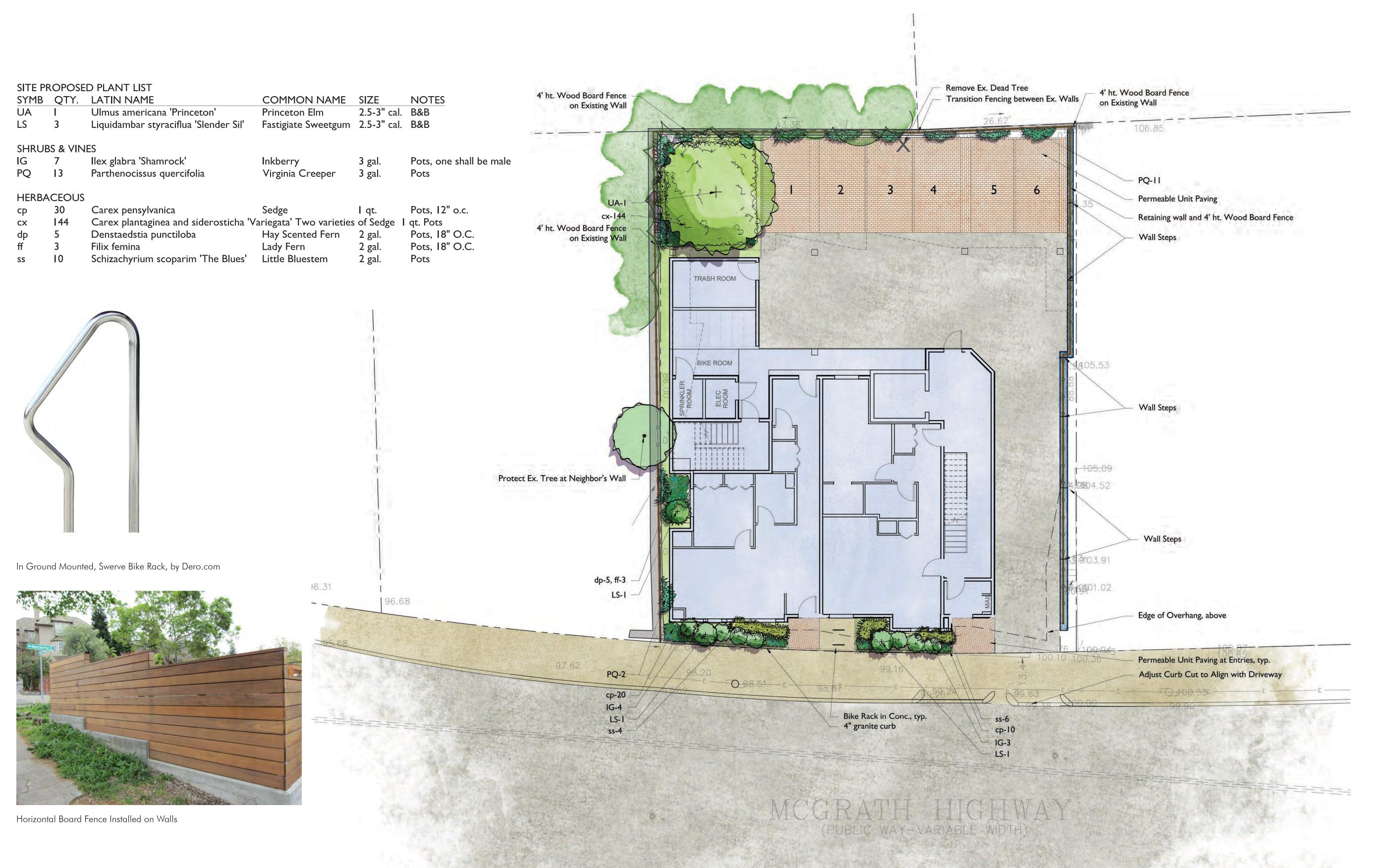
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DETAILS

SCALE:	1" = 10'
DATE:	08-15-19
DRAWN BY:	AU
CHECKED BY:	ES
APPROVED BY:	ES

SHEET:

004





Permeable Paver - Unilock Eco-Priora Umbariano Winter Marvel Reflectance .35

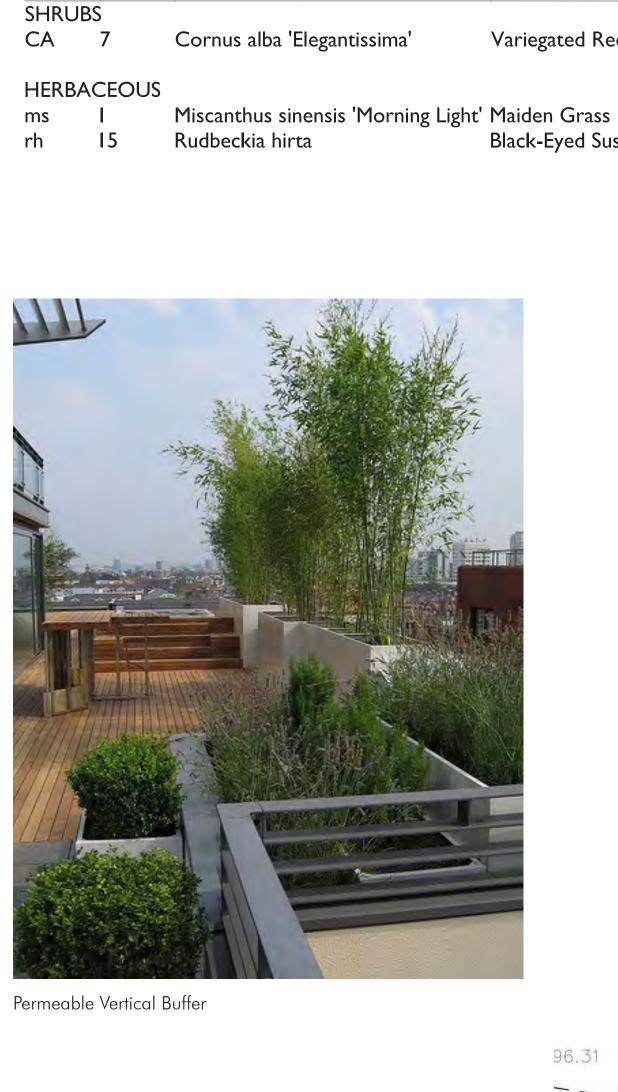


Fastigiate Sweetgum









ROOFDECK PROPOSED PLANT LIST

COMMON NAME

SIZE

NOTES

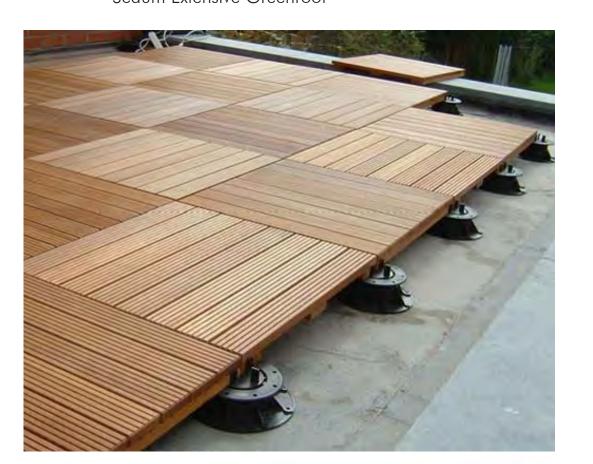
SYMB QTY. LATIN NAME







Sedum Extensive Greenroof





Pedestal Pavers & Intensive Greenroof





### 10. DEVELOPMENT STANDARDS

Green Score

**Table 10.4.1 Green Score Calculation** 

	Credit	Multiplier
Soils		
Landscaped area with a soil depth < 24 inches	actual sf	0.3
Landscaped area with a soil depth => 24 inches	actual sf	0.6
Pervious Paving with 6 to 24 inches of subsurface soil or gravel	actual sf	0.2
Pervious Paving with more than 24 inches of subsurface soil or gravel	actual sf	0.5
Groundcovers		
Turfgrass, mulch, and inorganic surfacing materials	actual sf	0.1
Plants		
Vegetation less than two (2) feet tall at maturity	actual sf	0.2
Vegetation at least two (2) feet tall at maturity	12 sf.	0.3
Trees		
Small Tree	50 sf.	0.6
Large Tree	450 sf.	0.6
Preserved Tree	65 sf.	0.8
Engineered Landscape		
Vegetated Wall	actual sf	0.1
Rain gardens, bioswales, and stormwater PLANTERS.	actual sf	1.0
Green Roof with up to 6" of growth medium	actual sf	0.1
Green Roof with 6"-10" of growth medium	actual sf	0.4
Green Roof of 10"-24" growth medium	actual sf	0.6
Green Roof of over 24" growth medium		per individual landscape elements

Green Score is a performance-based environmental landscape standard measured as a ratio of the weighted value of all landscape elements to the total land area of a lot.

394 McGrath Hwy 6,086.73 SF Total

	Multiplier	Bonus	Area in Square Feet	
Soils   Landscaped Area with a soil depth => 24 inches	.6	DP .1	645.70	451.99
Soils   Pervious Paving with 6 to 24 inches of subsurface soil or gravel	.2	DP .1	894.60	268.38
Groundcovers   Turfgrass, mulch, and inorganic surfacing materials	.1	NS .1 DP .1	101.03	30.34
Plants   Vegetation less than two feet tall at maturity	.2	NS .1 PV .1 DP .1	325.76	162.88
Plants   Vegetation at least two feet tall at maturity (per plant)	.3	NS .1 PV .1 DP .1	12 sf. (30)	216.00
Trees   Large Tree (per plant)	.6	NS .1 DP .1	450 sf. (1)	360.00
Trees   Small Tree (per plant)	.6	NS .1 PV .1 DP .1	50 sf. (2)	90.00
Engineered Landscape   Green Roof with up to 6" of growth medium	.1	NS .1	1,470.97	294.19
Engineered Landscape   Green Roof of 10"-24" growth medium	.6	NS .1	110.65	77.46
Total				1,951.24
Green Score Bonus Publicly Visible Landscape = PV = .1 Native Species = NS = .1 De-Paved Lot Area = DP = .1				

1,951.24 / 6,086.73 = .32 Green Score

### 5. Calculation

- a. Green Score is calculated as follows:
  - i. Determine total LOT AREA.
  - ii. Calculate the area of each proposed landscape element for each category identified in the first column of Table 10.4.1. Certain types of plantings use the number of individual plants multiplied by an equivalent square footage when indicated in the second column of Table 10.4.1.
  - iii. Multiply the actual square footage, or the equivalent square footage, of each landscape element by the multiplier specified for each landscape element in the third column of Table 10.4.1 plus any bonus on Table 10.4.2 to determine the weighted score of each element.
  - iv. Add the weighted score of all landscape elements together.
  - v. Divide the resulting sum by the area of the LOT to determine the final Green Score.
  - vi. If necessary, redesign the landscape plan to achieve the required GREEN SCORE.
- b. Bonuse
  - i. Review Boards may establish additional bonuses



GREEN SCORE CALCULATIONS

394 McGRATH HWY

SOMERVILLE, MA

### AT GRADE LANDSCAPE



### ROOF TOP







# Residences

PROJECT ADDRESS

394 McGrath Highway Somerville, MA

CLIENT

Mike Tokatlyan

# ARCHITECT



17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682 FAX: 617-591-2086

CONSULTANTS:

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# REGISTRATION

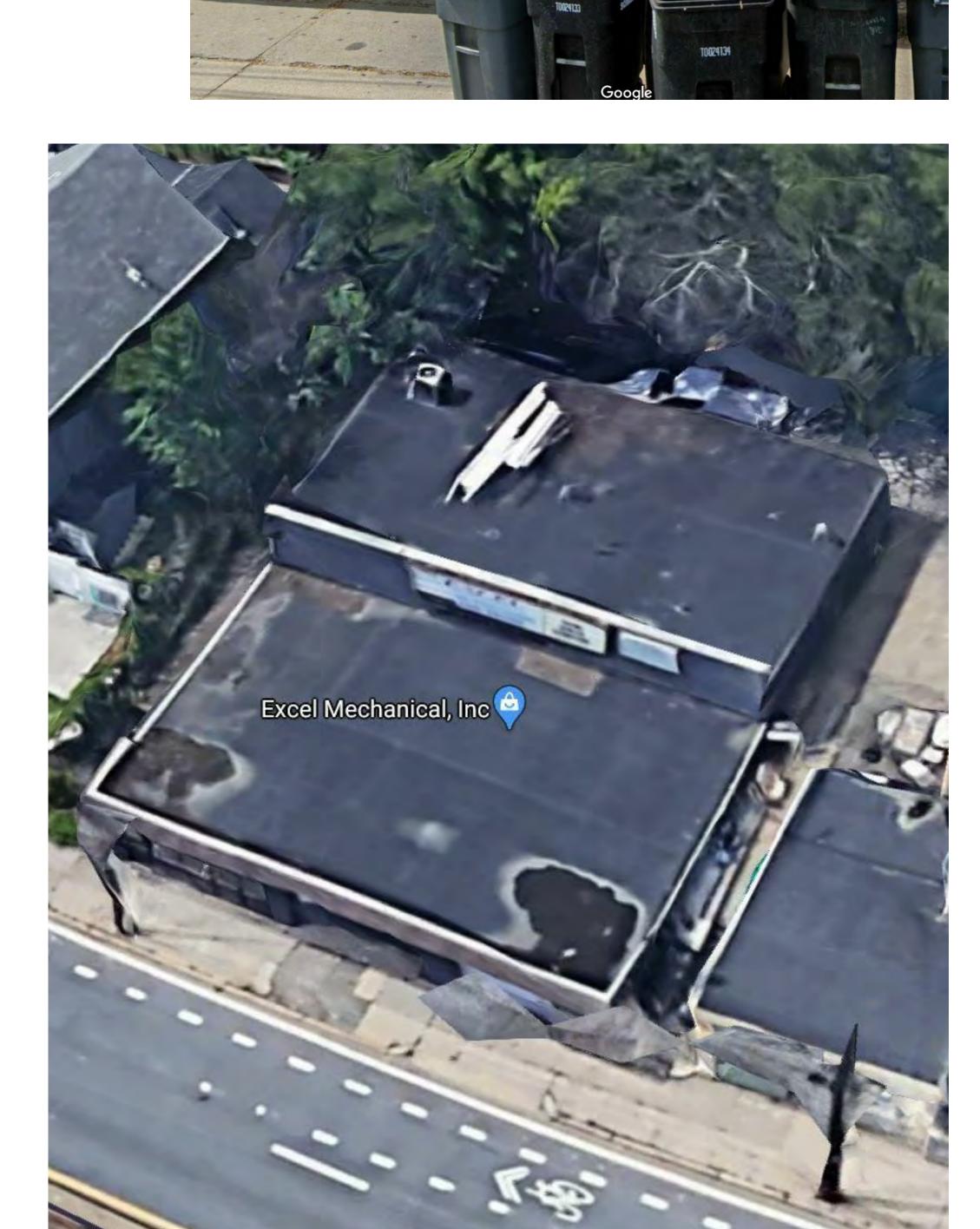
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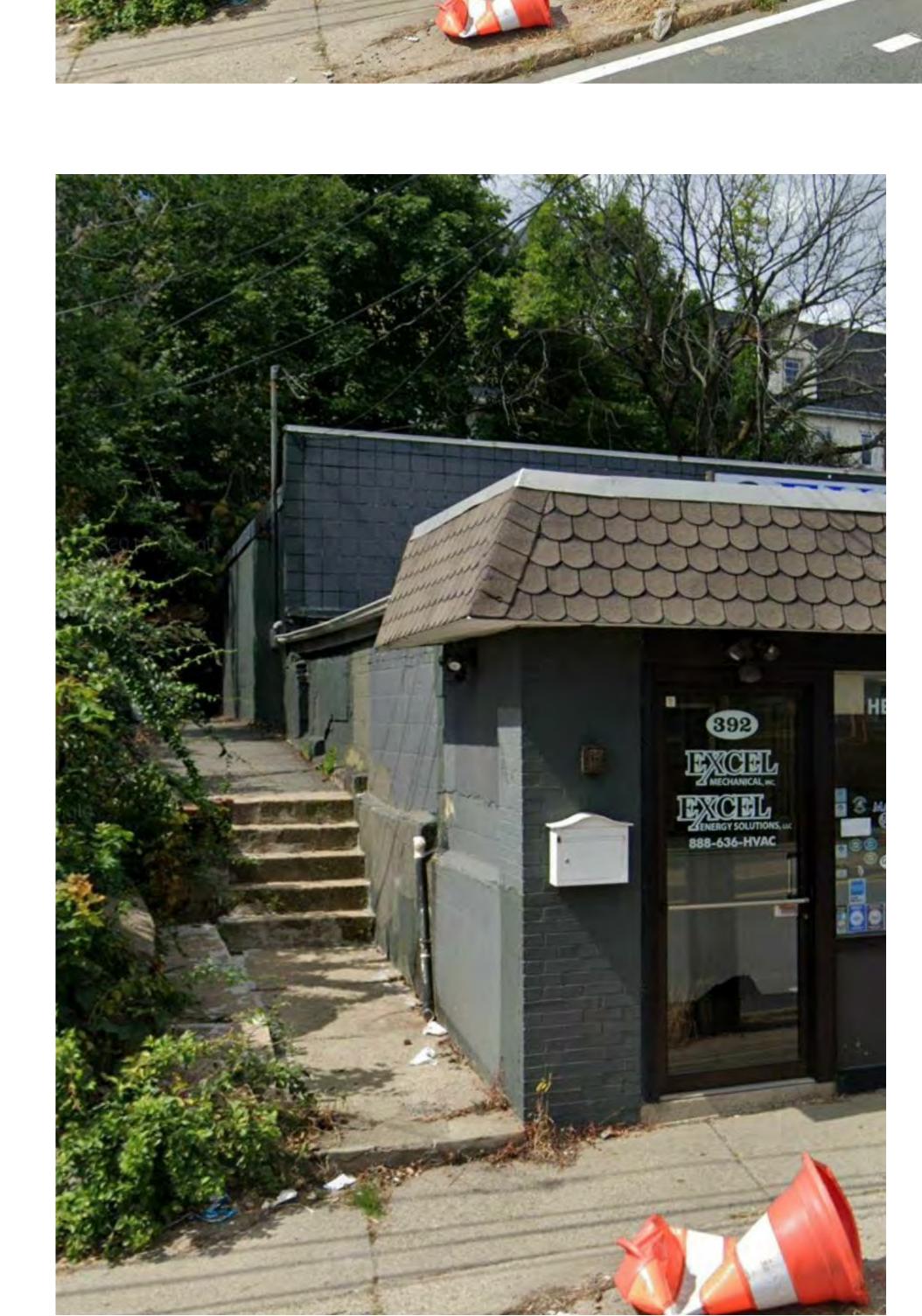


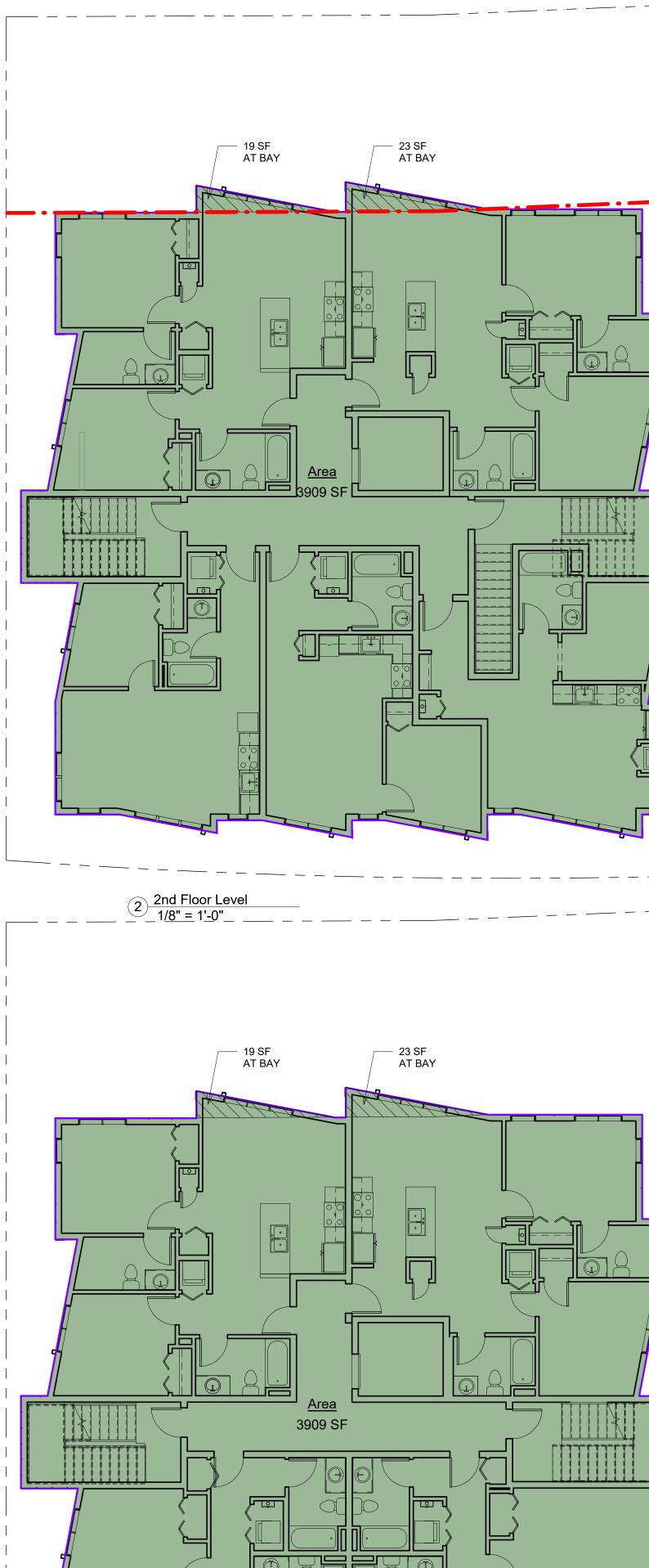
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Existing Conditions

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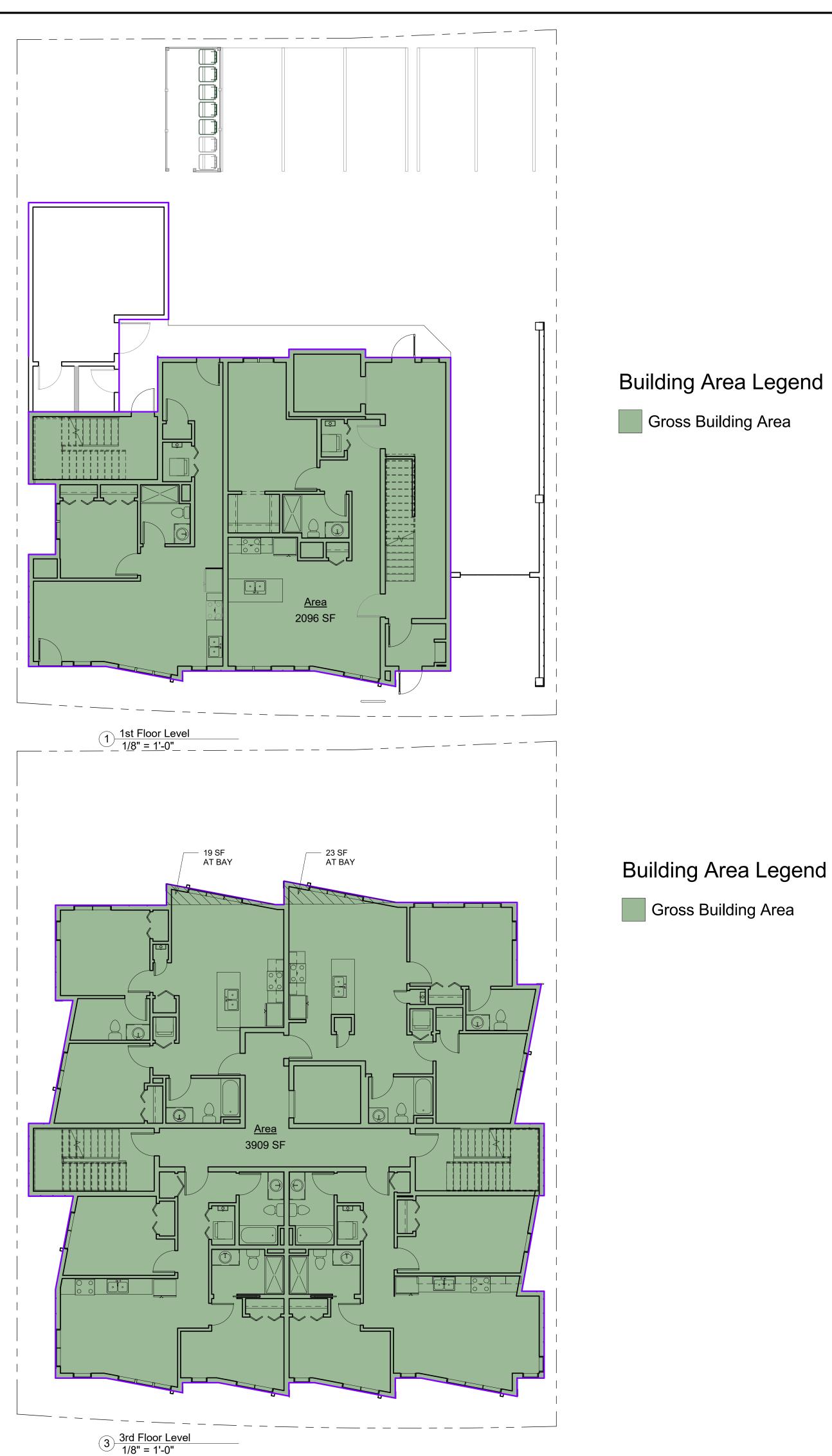






Building Area Legend

A-018 McGrath Residences



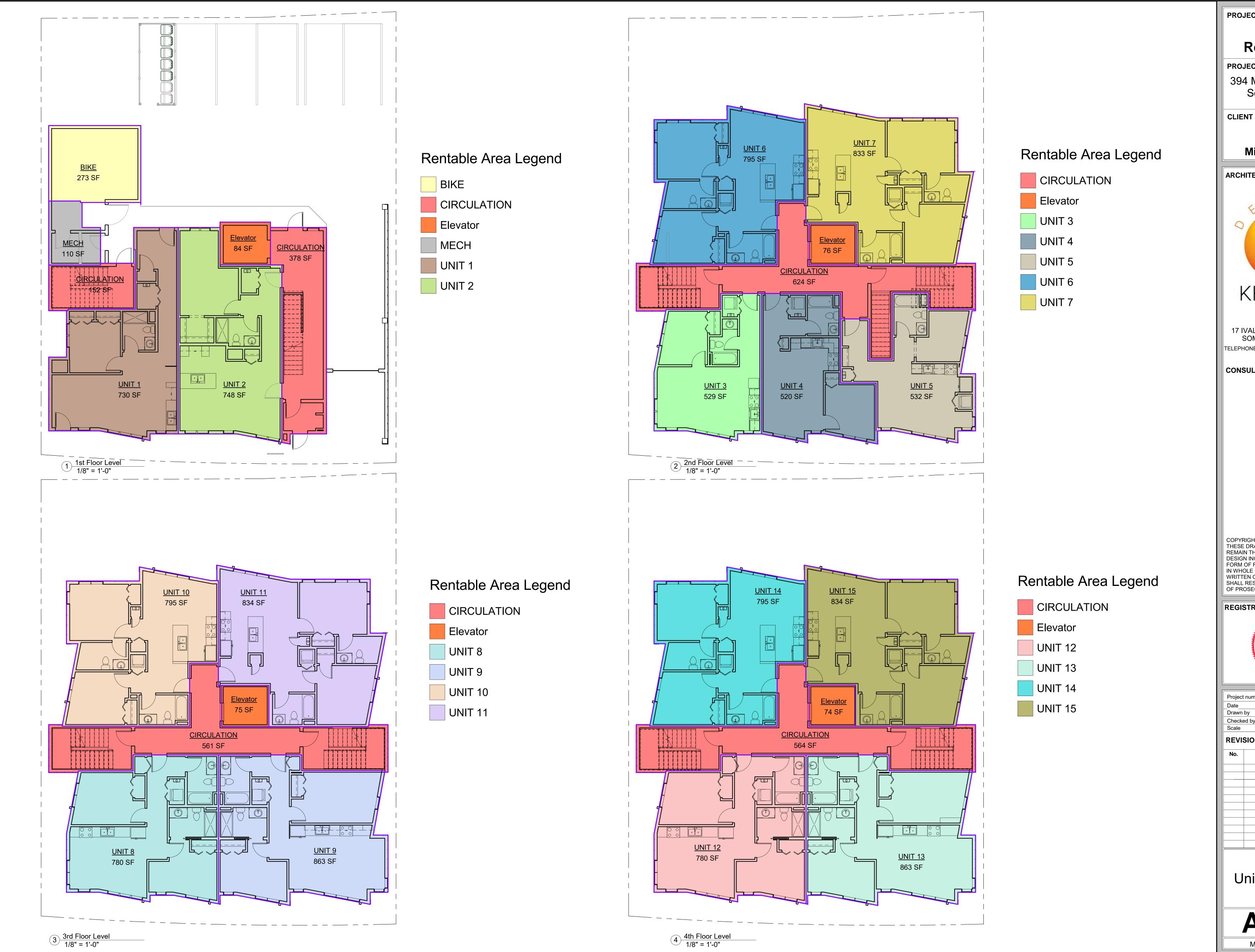
Building Area Legend

4th Floor Level
1/8" = 1'-0"

Area Schedule (Gross Building)

1st Floor Level 2nd Floor Level 3909 SF 3909 SF 3rd Floor Level 3909 SF 4th Floor Level 213 SF Roof Level 158 SF Roof Level

TOTAL GROSS AREA AT BAYS IN REAR SETBACK: 126 SF



**McGrath** Residences

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394 McGrath Highway Somerville, MA

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ARCHITECT



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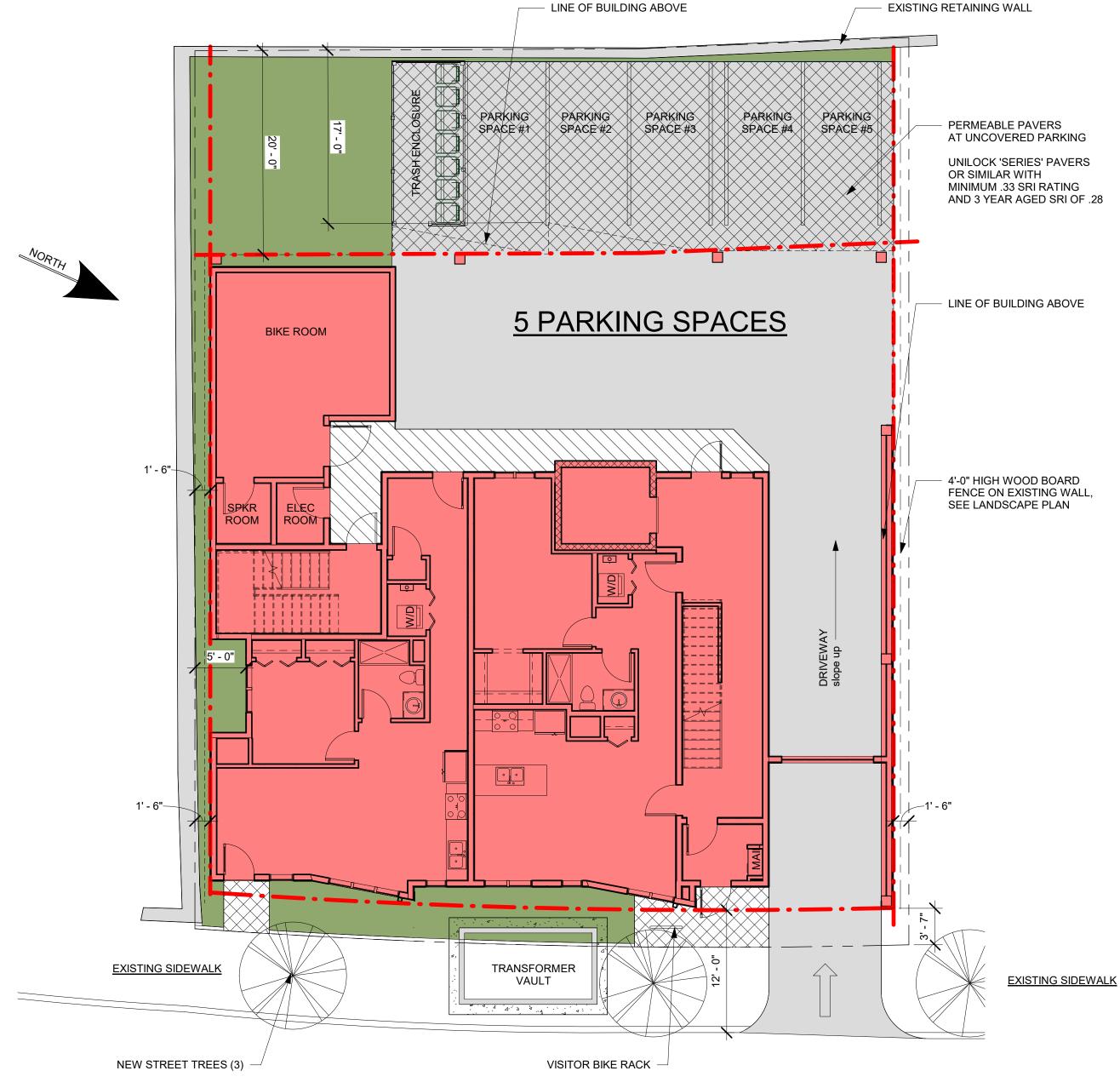
REGISTRATION



Project nu	mber	19055	
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REVISIO	ONS		
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Un	it Area P	lans	

Unit Area Plans

A-019 McGrath Residences

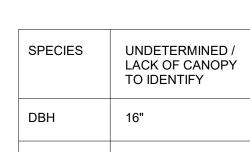


1 SITE PLAN 1/8" = 1'-0"

MAXIMUM PARKING (WITHIN TRANSIT AREA)

MCGRATH HIGHWAY

EXISTING TREE
TO BE REMOVED



TO BE INCINIOVE	
SPECIES	UNDETERMINED / LACK OF CANOPY TO IDENTIFY
DBH	16"
HEALTH CONDITION	VERY POOR / DEAD

KEY

**SPACE** 

PAVED

AREA

**UNIT BREAKDOWN** 

**UNITS TOTAL** 

1-BEDROOM UNITS

2-BEDROOM UNITS

USEABLE OPEN

PROPOSED

**PROPOERTY** 

BUILDING **FOOTPRINT** 

MCGRATH HIGHWAY

**ZONING DIMENSIONAL TABLE-PROPOSED ZONING:** LOT SIZE: +/- 6,143 SF ALLOWED / REQUIRED PROPOSED COMMENTS ZONE MR4 ZONE **BUILDING TYPE GENERAL BUILDING** APT. BUILDING LOT DIMENSIONS WIDTH (MIN.) 30 FT COMPLIES LOT DEVELOPMENT LOT COVERAGE (MAX) 90 % 65% / 3,987 SF COMPLIES 0.25 MIN 0.30 IDEAL GREEN FACTOR (MIN.) 0.32 COMPLIES BUILDING SETBACKS 3'-8" FT AT GRADE COMPLIES PRIMARY FRONT (MIN/ MAX.) 2 FT / 12 FT SECONDARY FRONT (MIN/ MAX.) 2 FT / 12 FT @ ALLEY OR ROW: 0 FT 5 FT (R) / 5 FT (L) SIDE (MIN) COMPLIES @ NR OR LHD: 10'-0" REAR (MIN) @ ALLEY OR ROW: 10 FT COMPLIES ABUTTING NR OR LHD: 20 FT 17'-0" FT @ BAY MAIN BODY 59'-10 1/2" 200 FT COMPLIES **BUILDING WIDTH (MAX.)** FACADE BUILD OUT, FRONT STREET (MIN.) COMPLIES PRIMARY FRONT 80 % SECONDARY FRONT 65 % NOT APPLICABLE COMPLIES 15,000 SF FLOOR PLATE (MAX.) 3,498 SF COMPLIES BUILDING HEIGHT, STORIES (MIN.) 3 STORIES 4 STORIES COMPLIES 4 STORIES **BUILDING HEIGHT, STORIES (MAX.)** 10 FT 10 FT COMPLIES **GROUND STORY HEIGHT (MIN.)** 10 FT 10 FT COMPLIES UPPER STORY HEIGHT (MIN.) 40 FT 50 FT BUILDING HEIGHT, FEET (MAX.) COMPLIES FLAT FLAT **ROOF TYPE** COMPLIES FACADE COMPOSITION 15% / 50% COMPLIES 41% (141 SF / 466 SF) GROUND STORY FENESTRATION (MIN.) UPPER STORY FENESTRATION (MIN./ MAX.) 15% / 50% 31% (188 SF / 600 SF COMPLIES COMPLIES **BLANK WALL (MAX.)** 20 FT N/A **USE & OCCUPANCY** GROSS FLOOR AREA PER DU 1,500 67 FT COMPLIES LOT AREA < 5,000 SF 4,366 x 3 / 1,125 (11.6 DU) LOT AREA > 5,000 SF 4,366 x 3 / 850 (15.4 DU) 15 DU COMPLIES NET ZERO BUILDING 100% AFFORDABLE 936 SF (14 DU) COMPLIES OUTDOOR AMENITY SPACE (MIN.) 1/ DU PARKING (RESIDENTIAL) COMPLIES MIN SHORT TERM BICYCLE PARKING 1.4 (2) SPACES 0.1/DU COMPLIES MIN LONG TERM BICYCLE PARKING 1 /DU (15 SPACES) 15 SPACES

PROJECT NAME

# **McGrath** Residences

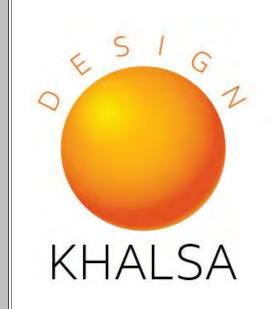
**PROJECT ADDRESS** 

394 McGrath Highway Somerville, MA

CLIENT

Mike Tokatlyan

ARCHITECT



17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682 FAX: 617-591-2086

CONSULTANTS:

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REGISTRATION

COMPLIES

5 SPACES

1/DU (14 SPACES MAX)



Project nu	mber	19055	
Date		12/01/21	
Drawn by		WC	
Checked I	ру	JSK	
Scale		As indicated	
REVISION	ONS		
No.	Description	Date	

Architectural Site Plan

**A-020** McGrath Residences

3 SITE PLAN - EXISTING TREE PLAN 1/16" = 1'-0"

12/01/21 Author Checker 1/8" = 1'-0"

Date



McGrath Residences

**McGrath** 

Residences

Somerville, MA

Mike Tokatlyan

KHALSA

SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682 FAX: 617-591-2086

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Project number

Drawn by

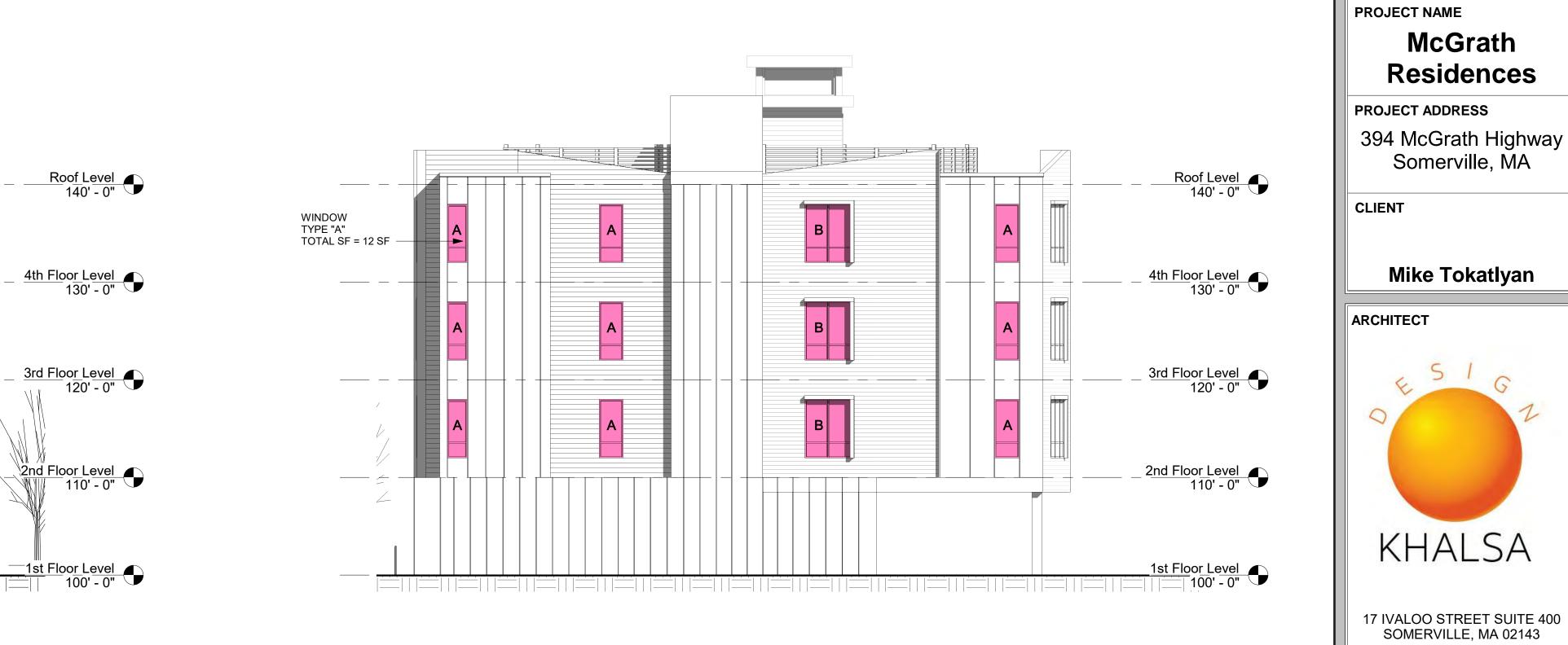
Scale

Checked by

REVISIONS

Description

CONSULTANTS:



2 SIDE FACADE (North) FENESTRATION 1/8" = 1'-0"

4 REAR FACADE (West) FENESTRATION
1/8" = 1'-0"



WINDOW

TYPE "F" TOTAL SF = 23 SF

WINDOW

TYPE "E" TOTAL SF = 10 SF

WINDOW TYPE "B" TOTAL SF = 28 SF

WINDOW

TYPE "D"
TOTAL SF = 35 SF

1 FRONT FACADE FENESTRATION 1/8" = 1'-0"

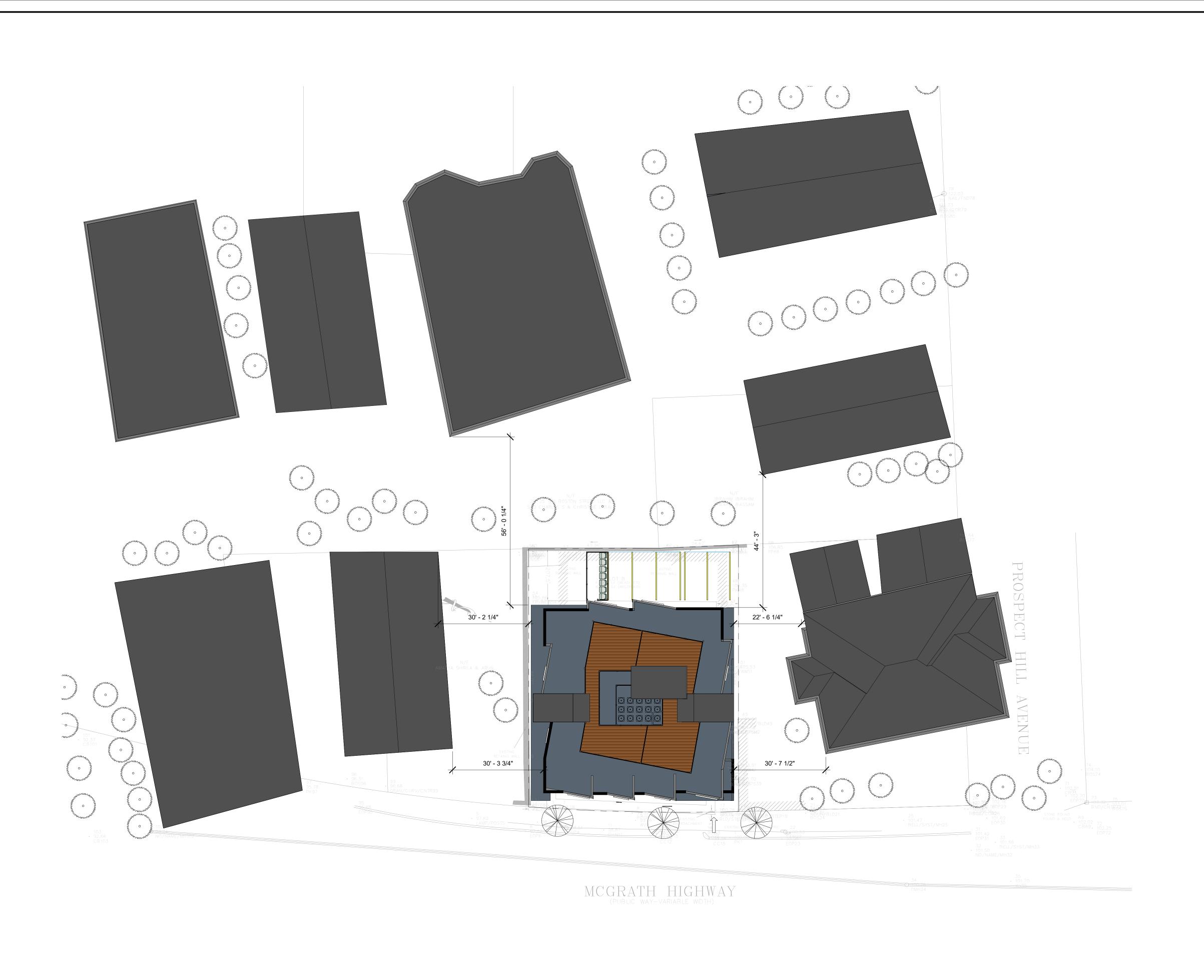
WINDOW TYPE "C" TOTAL SF = 42 SF

3 SIDE FACADE (South) FENESTRATION 1/8" = 1'-0"



**WINDOW TOTALS** 

TYPE A: 31 TOTAL @ 12 SF EACH = 372 SF TYPE B: 24 TOTAL @ 28 SF EACH = 672 SF TYPE C: 12 TOTAL @ 42 SF EACH = 504 SF TYPE D: 1 TOTAL @ 35 SF EACH = 35 SF TYPE E: 3 TOTAL @ 10 SF EACH = 30 SF TYPE F: 4 TOTAL @ 23 SF EACH = 92 SF 75 WINDOWS / 1,705 SF OF WINDOWS



Site Plan Neighborhood Buildings
1/16" = 1'-0"

PROJECT NAME **McGrath** Residences PROJECT ADDRESS

394 McGrath Highway Somerville, MA

CLIENT

Mike Tokatlyan

ARCHITECT



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REGISTRATION



19055
12/01/21
Author
Checkei
1/16" = 1'-0'
_

No.	Description	Date

Abutting Properties Plan

# **McGrath** Residences

PROJECT ADDRESS

394 McGrath Highway Somerville, MA

CLIENT

Mike Tokatlyan

ARCHITECT



17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682 FAX: 617-591-2086

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Checked	by	Check	er
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REVISI	ONS		
No.	Description	Date	

1st Floor Plan

# **McGrath** Residences

PROJECT ADDRESS 394 McGrath Highway Somerville, MA

Mike Tokatlyan



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No.	Description	Date	
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2nd Floor Plan

# **McGrath** Residences

PROJECT ADDRESS 394 McGrath Highway Somerville, MA

Mike Tokatlyan





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3rd Floor Plan



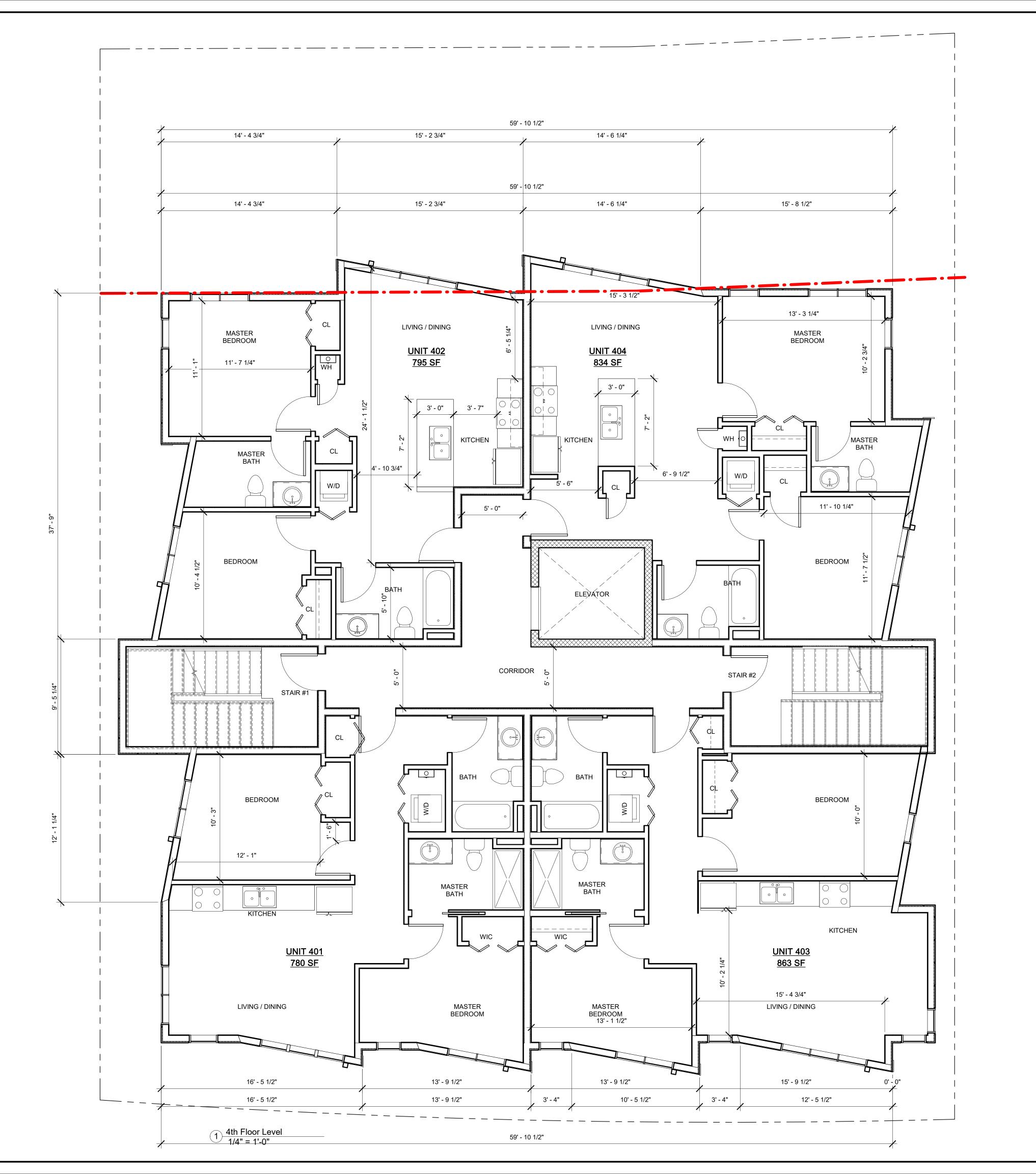
# PROJECT NAME **McGrath** Residences PROJECT ADDRESS 394 McGrath Highway Somerville, MA CLIENT Mike Tokatlyan ARCHITECT KHALSA 17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682 FAX: 617-591-2086 CONSULTANTS: COPYRIGHT KDI © 2020 THESE DRAWINGS ARE NOW AND DO REMAIN THE SOLE PROPERTY OF KHALSA DESIGN INC. USE OF THESE PLANS OR ANY REGISTRATION

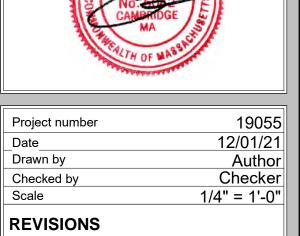
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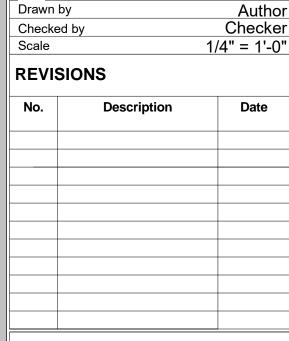
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4th Floor Plan







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REGISTRATION

PROJECT NAME

PROJECT ADDRESS

CLIENT

ARCHITECT

**McGrath** 

Residences

394 McGrath Highway Somerville, MA

Mike Tokatlyan

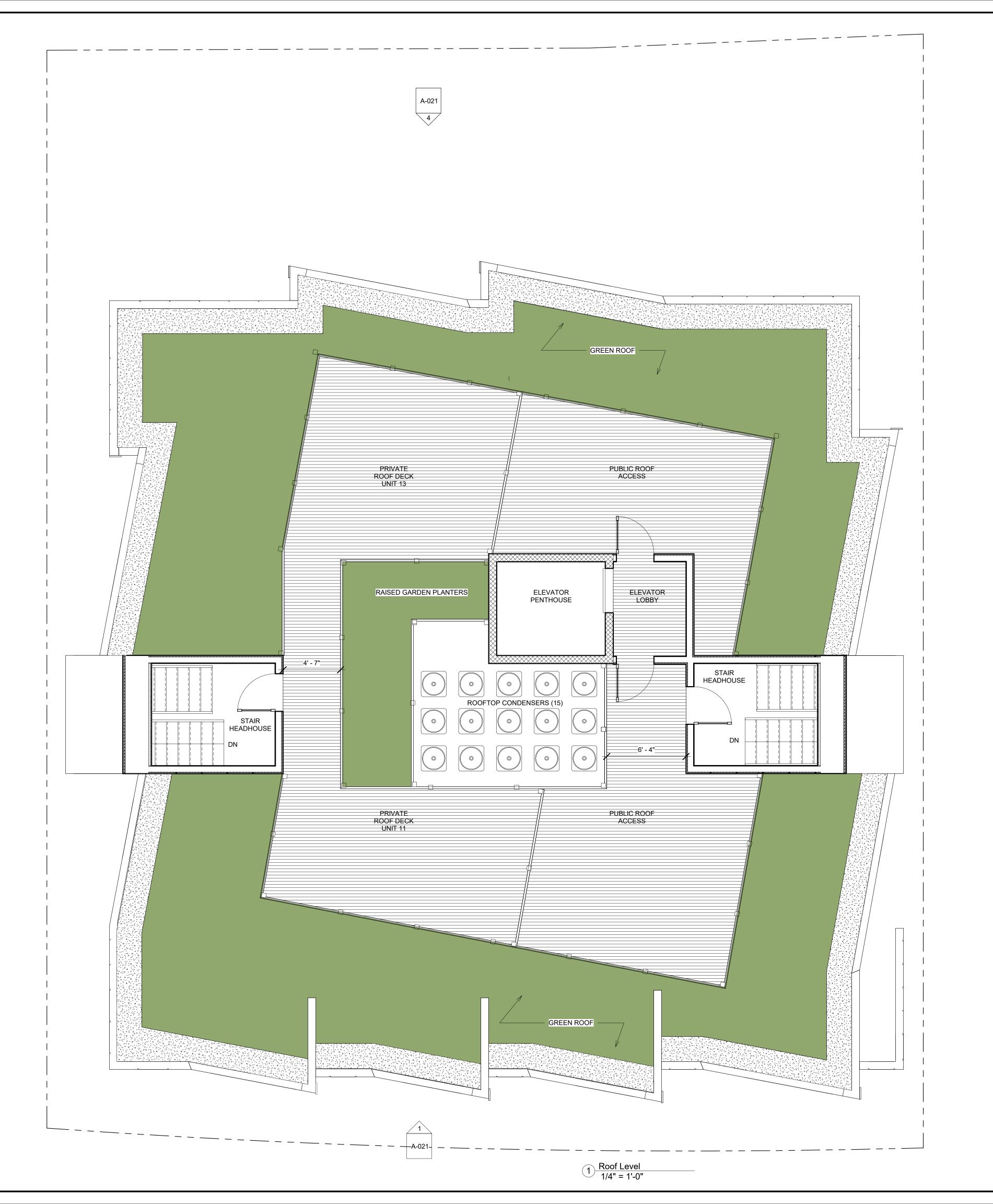
KHALSA

17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143

TELEPHONE: 617-591-8682 FAX: 617-591-2086

CONSULTANTS:

Roof Plan









Rear Elevation (West)
1/8" = 1'-0"



Side Elevation (South)
1/8" = 1'-0"



Somerville, MA

Mike Tokatlyan

**McGrath** 

Residences

394 McGrath Highway

ARCHITECT

CLIENT

PROJECT NAME

PROJECT ADDRESS



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Project nu	ımber		19055
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Exterior Elevations

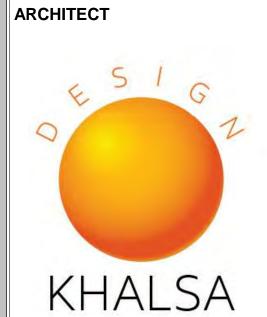
**A-300** 

CLIENT

PROJECT NAME

**McGrath** 

Residences

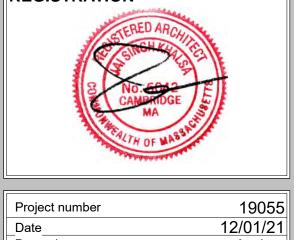


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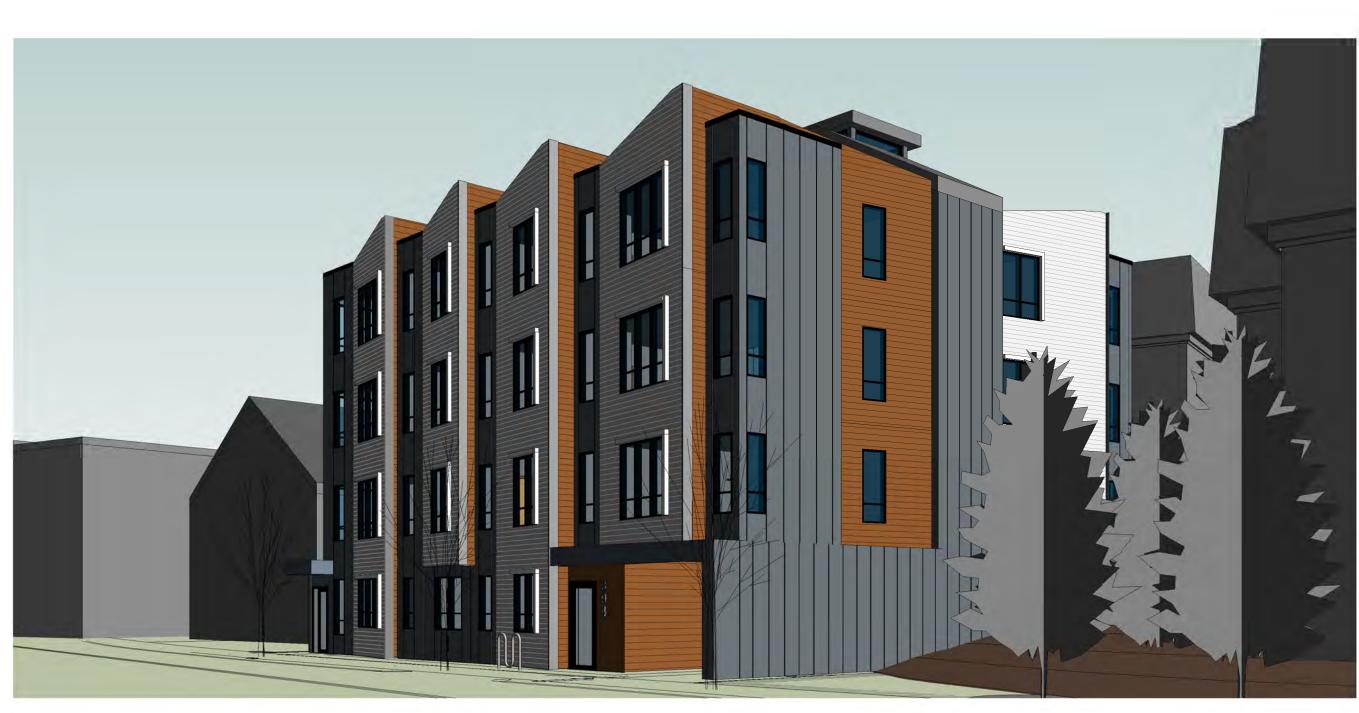
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**Exterior** Perspectives

**A-301** McGrath Residences



1 McGrath View 1



2 McGrath View 2



3 Rear View

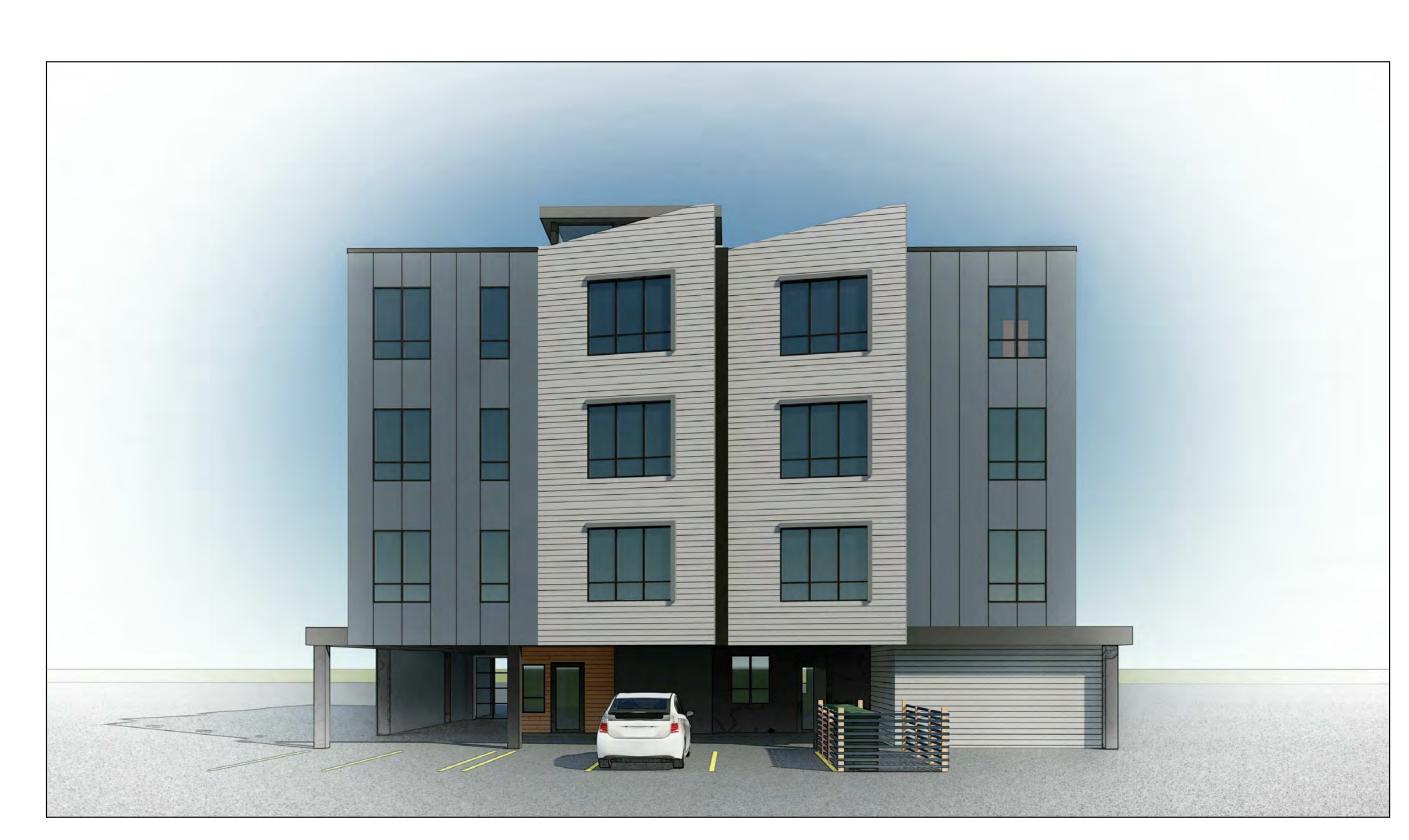


4 Rear View 2



RENDERED FRONT ELEVATION





SIDE ELEVATION (NORTH)

SUMMARY OF REVISIONS



SIDE ELEVATION (NORTH)



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PROJECT NAME

PROJECT ADDRESS

CLIENT

ARCHITECT

CONSULTANTS:

**McGrath** 

Residences

394 McGrath Highway Somerville, MA

Mike Tokatlyan



Project r	umber	19055
Date		12/01/21
Drawn b	у	WC
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REVIS	IONS	
No.	Description	Date

Rendered Elevations

**A-302** McGrath Residences



# **McGrath** Residences

PROJECT ADDRESS

394 McGrath Highway Somerville, MA

CLIENT

# Mike Tokatlyan

### ARCHITECT



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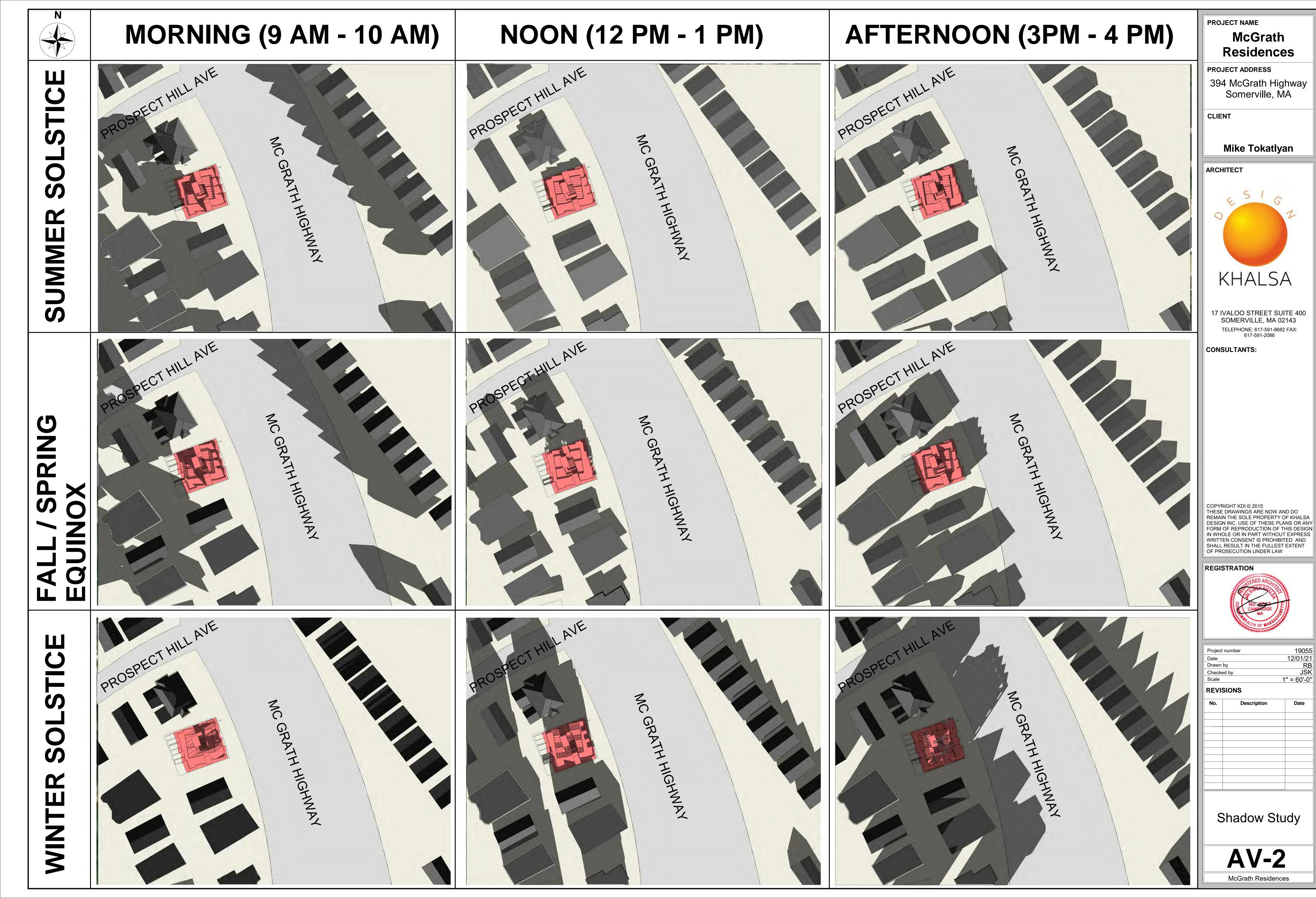
# REGISTRATION



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No.	Description	Date

Street View

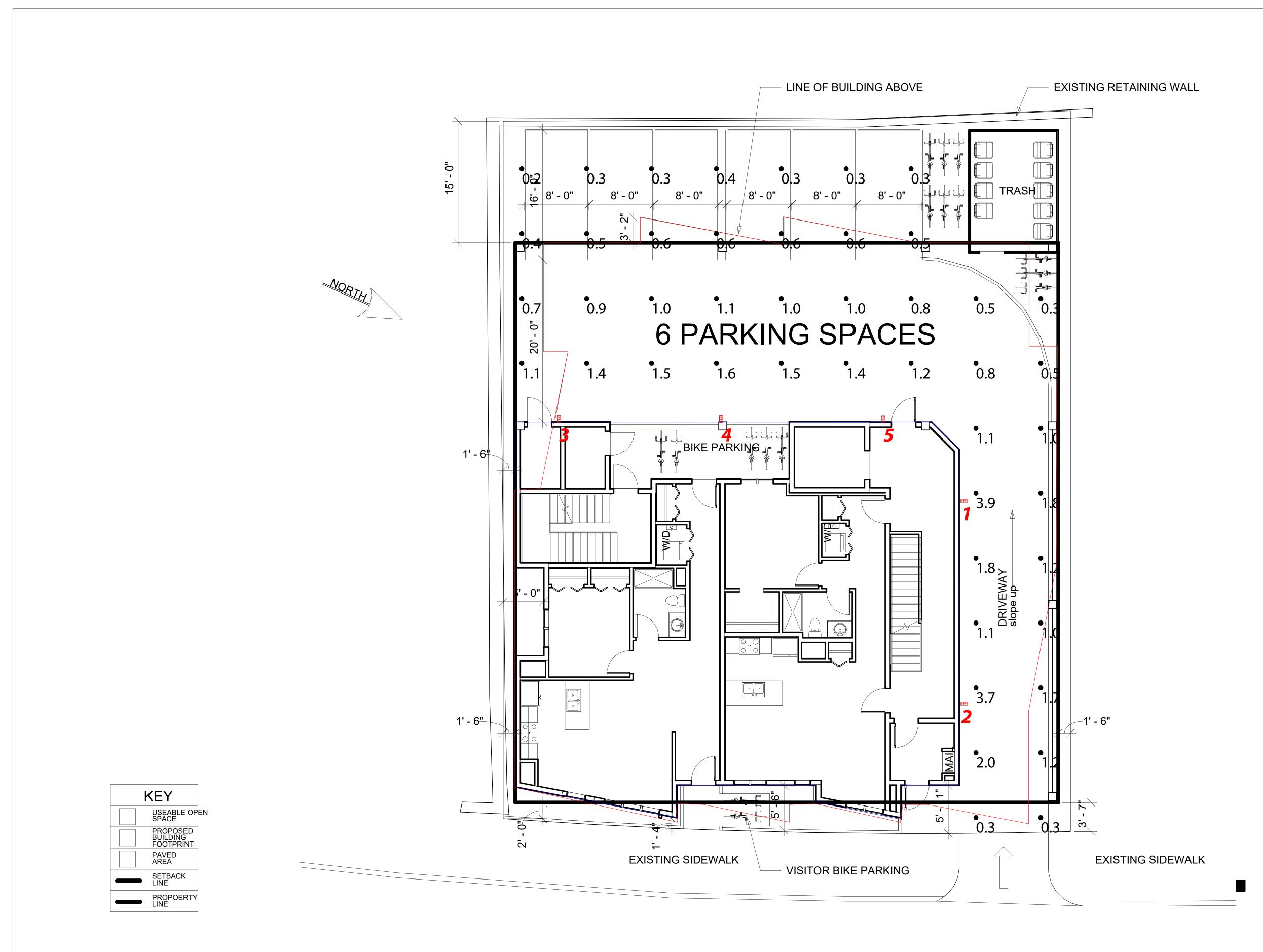
AV-1 McGrath Residences



\\TKG-SERVER\Data\19\19055-Mike-T-394 McGrath\03 Drawings\00\_ARCH\_SD\_DD\394 McGrath Highway\_post UDC\_9.7.21.rvt

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3/2/2022 4:12:35 PM



MCGRATH HIGHWAY

Somerville, MA

Lighting Layout
Version A

Drawn By: dvento

CASE # 341537

CASE # 341537

CASE # 341537

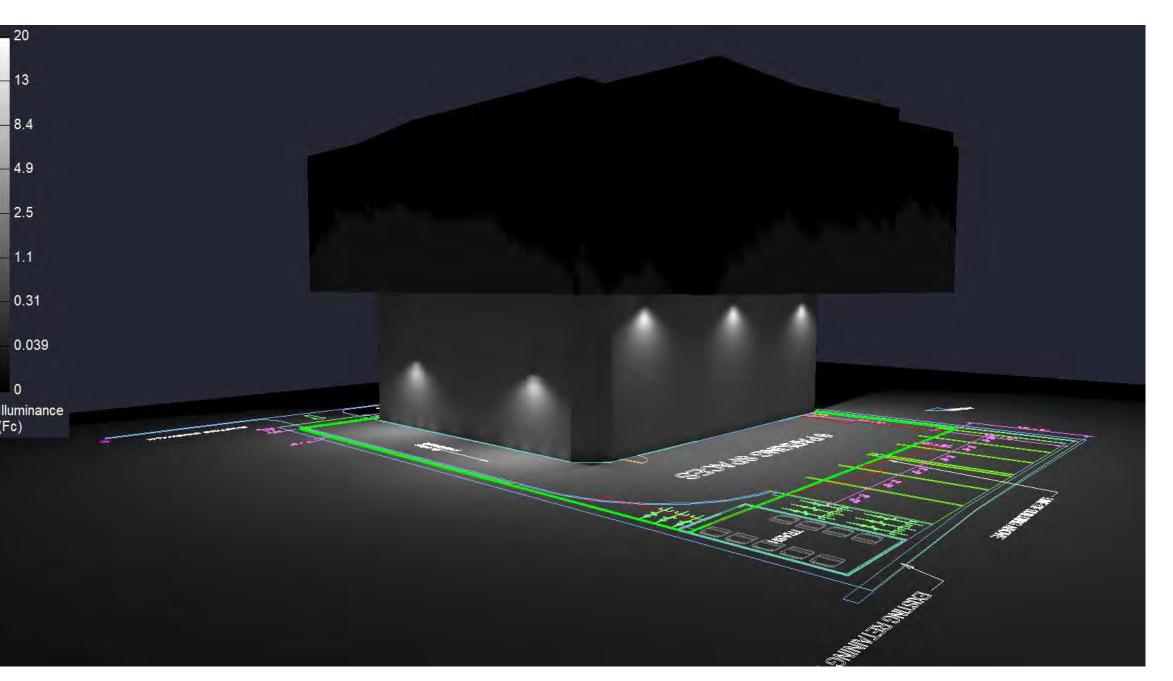
RAB recomm Filename: 394 McGrath Hwy Ltg Layout 341537A.AGI applicable results the submitted by and is not in a file of the state of the submitted by and is not in a file of the state of the submitted by and is not in a file of the state of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by and is not in a file of the submitted by a file of the

Luminaire Schedule All quotes/orders generated from this layout must be forwarded to the Local Rep Agency							
Symbol	Qty	Tag	Label	Arrangement	LLF	Description	<b>BUG Rating</b>
	5	Α	WPLED10Y	SINGLE	1.000	Wallpack	B0-U0-G0

<b>Calculation Summary</b>											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description	PtSpcLr	PtSpcTb	Meter Type
Parking Lot	Illuminance	Fc	1.01	3.9	0.2	5.05	19.50	Readings taken at 0'-0" AFG	8	8	Horizontal

LumNo	Tag	X	Y	MTG HT	Orient	Tilt
1	Α	113.9	55.5	10	0	0
2	Α	113.9	30.5	10	0	0
3	Α	63.788	65.727	18	90	0
4	Α	83.788	65.727	18	90	0
5	Α	103.788	65.705	18	90	0

- \* The light loss factor (LLF) is a product of many variables, only lamp lumen depreciation (LLD) has been applied to the calculated results unless otherwise noted. The LLD is the result (quotient) of mean lumens / initial lumens per lamp manufacturers' specifications.
- \* Illumination values shown (in footcandles) are the predicted results for planes of calculation either horizontal, vertical or inclined as designated in the calculation summary. Meter orientation is normal to the plane of calculation.
- \* The calculated results of this lighting simulation represent an anticipated prediction of system performance. Actual measured results may vary from the anticipated performance and are subject to means and methods which are beyond the control of RAB Lighting Inc.
- \* Mounting height determination is job site specific, our lighting simulations assume a mounting height (insertion point of the luminaire symbol) to be taken at the top of the symbol for ceiling mounted luminaires and at the bottom of the symbol for all other luminaire mounting configurations.
- \* It is the Owner's responsibility to confirm the suitability of the existing or proposed poles and bases to support the proposed fixtures, based on the weight and EPA of the proposed fixtures and the owner's site soil conditions and wind zone. It is recommended that a professional engineer licensed to practice in the state the site is located be engaged to assist in this determination.
- \* The landscape material shown hereon is conceptual, and is not intended to be an accurate representation of any particular plant, shrub, bush, or tree, as these materials are living objects, and subject to constant change. The conceptual objects shown are for illustrative purposes only. The actual illumination values measured in the field will vary.
- \* Photometric model elements such as buildings, rooms, plants, furnishings or any architectural details which impact the dispersion of light must be detailed by the customer documents for inclusion in the RAB lighting design model. RAB is not responsible for any inaccuracies caused by incomplete information on the part of the customer, and reserves the right to use best judgement when translating customer requests into photometric studies.
- \* RAB Lighting Inc. luminaire and product designs are protected under U.S. and International intellectual property laws. Patents issued or pending apply.



CASE # 341537







LED 10W & 13 Wall packs. patent-pending thermal management system. 100,000 hour L70 lifespan. 5-year, no-compromise warranty.

Color: Bronze Weight: 3.3 lbs

Project:	Туре:
Prepared By:	Date:

Driver Info	0	LED Info	
Type	Constant Current	Watts	10W
120V	0.1A	Color Temp	3000K (Warm)
208V	0.07A	Color Accuracy	74 CRI
240V	0.06A	L70 Lifespan	100,000
277V	0.05A	Lumens	1,198
Input Watts	12.40W	Efficacy	96.6 LPW
Efficiency	81%		

### **Technical Specifications**

### Listings

### **UL Listed:**

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

### IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

### **DLC Listed:**

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. DLC Product Code: P5NSZ02C

### **LED Characteristics**

### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

### **Color Consistency:**

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

### **Color Stability:**

LED color temperature is warrantied to shift no more than 200K in CCT over a 5-year period

### **Color Uniformity:**

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for

### **Lumen Maintenance:**

The LED will deliver 70% of its initial lumens at 100,000 hours of operation

### Construction

### Finish:

Formulated for high durability and long-lasting color

### **Cold Weather Starting:**

Minimum starting temperature is -40°C (-40°F)

### **Maximum Ambient Temperature:**

Suitable for use in 40°C (104°F)

### Housing:

Precision die-cast aluminum housing, lens frame

### Mounting:

Surface plate and Junction box

### Green Technology:

Mercury and UV free. RoHS-compliant components.

### Gaskets:

High-temperature Silicone

### **Electrical**

### Driver:

Multi-chip 10W high output long life LED Driver Constant Current, Class II, 120V-240V, 50/60/ Hz, 350mA

### THD:

10.8% at 120V, 13.8% at 277V

### **Power Factor:**

98.5% at 120V, 92.1% at 277V

### Other

### Patents:

The design of the LPACK is protected by U.S. Pat. D604,004 and patents pending in Canada, China and Taiwan.

### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at <a href="mailto:rablighting.com/warranty">rablighting.com/warranty</a>.

WPLED10Y



### **Technical Specifications (continued)**

Other

Equivalency:

Equivalent to 70W Metal Halide

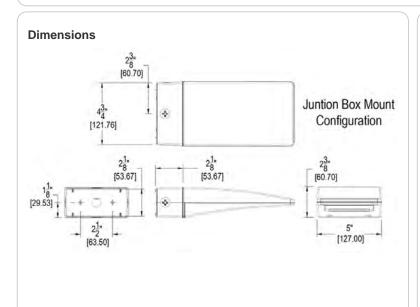
### **Buy American Act Compliance:**

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

**BUG** Rating:

B1 U0 G0



### **Features**

High performance LED light engine

Maintains 70% of initial lumens at 100,000-hours

Weatherproof high temperature silicone gaskets

Superior heat sinking with die cast aluminum housing and external fins

5-Year, No-Compromise Warranty





LED 10W & 13 Wall packs. patent-pending thermal management system. 100,000 hour L70 lifespan. 5-year, no-compromise warranty.

Color: Bronze Weight: 3.3 lbs

Project:	Туре:
Prepared By:	Date:

Driver Info	0	LED Info	
Type	Constant Current	Watts	10W
120V	0.1A	Color Temp	3000K (Warm)
208V	0.07A	Color Accuracy	74 CRI
240V	0.06A	L70 Lifespan	100,000
277V	0.05A	Lumens	1,198
Input Watts	12.40W	Efficacy	96.6 LPW
Efficiency	81%		

### **Technical Specifications**

### Listings

### **UL Listed:**

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

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### **LED Characteristics**

### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

### **Color Consistency:**

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

### **Color Stability:**

LED color temperature is warrantied to shift no more than 200K in CCT over a 5-year period

### **Color Uniformity:**

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for

### **Lumen Maintenance:**

The LED will deliver 70% of its initial lumens at 100,000 hours of operation

### Construction

### Finish:

Formulated for high durability and long-lasting color

### **Cold Weather Starting:**

Minimum starting temperature is -40°C (-40°F)

### **Maximum Ambient Temperature:**

Suitable for use in 40°C (104°F)

### Housing:

Precision die-cast aluminum housing, lens frame

### Mounting:

Surface plate and Junction box

### Green Technology:

Mercury and UV free. RoHS-compliant components.

### Gaskets:

High-temperature Silicone

### **Electrical**

### Driver:

Multi-chip 10W high output long life LED Driver Constant Current, Class II, 120V-240V, 50/60/ Hz, 350mA

### THD:

10.8% at 120V, 13.8% at 277V

### **Power Factor:**

98.5% at 120V, 92.1% at 277V

### Other

### Patents:

The design of the LPACK is protected by U.S. Pat. D604,004 and patents pending in Canada, China and Taiwan.

### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at <a href="mailto:rablighting.com/warranty">rablighting.com/warranty</a>.

WPLED10Y



### **Technical Specifications (continued)**

Other

Equivalency:

Equivalent to 70W Metal Halide

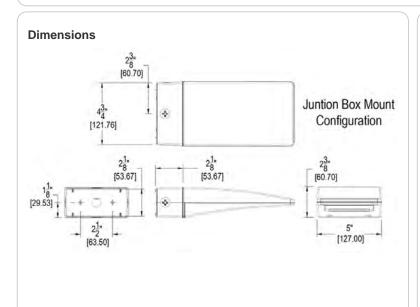
### **Buy American Act Compliance:**

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

**BUG** Rating:

B1 U0 G0



### **Features**

High performance LED light engine

Maintains 70% of initial lumens at 100,000-hours

Weatherproof high temperature silicone gaskets

Superior heat sinking with die cast aluminum housing and external fins

5-Year, No-Compromise Warranty