

GENERAL NOTES

THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.

LIMIT OF WORK SHALL BE EROSION CONTROL BARRIERS, LIMIT OF GRADING AND SITE PROPERTY LINES AND/OR AS INDICATED ON DRAWINGS.

PORTIONS OF THE ROADWAY, SIDEWALK AND ROADSIDE AREA DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR CONDITIONS PRIOR TO DISTURBANCE.

CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.

ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.

ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.

EXISTING TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.

FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

ALL EXCAVATIONS OR CONTRACTORS MUST REFER TO 520 CMR 14.00 TO OBTAIN A TRENCH PERMIT PRIOR TO ANY CONSTRUCTION RELATED TRENCHES ON SITE.

EROSION CONTROL AND SEDIMENTATION NOTES

CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING ENTIRE CONSTRUCTION PERIOD.

ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.

ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT EROSION.

ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF SITE.

PROVIDE CRIBBING AS NECESSARY TO PROTECT EXISTING UTILITY LINES DURING CONSTRUCTION.

SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.

ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.

TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENUDED SURFACE WHICH WILL BE EXPOSED FOR A PERIOD OF ONE MONTH OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE MULCHED WITH STRAW. MULCH SHALL BE SPREAD UNIFORMLY IN A CONTINUOUS BLANKET OF SUFFICIENT THICKNESS TO COMPLETELY HIDE THE SOIL FROM VIEW.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS DURING CONSTRUCTION TO INSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT.

CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER.

DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

FILTER BAGS SHALL BE INSTALLED IN ALL EXISTING DRAIN INLETS PRIOR TO CONSTRUCTION ACTIVITIES AND AROUND ALL PROPOSED DRAIN INLETS PRIOR TO PERMANENT PAVEMENT TO CONTROL SILTATION.

ADDITIONAL STRAW BALES SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

CLEAN AND MAINTAIN EROSION CONTROL BARRIER AS REQUIRED DURING CONSTRUCTION OPERATIONS TO ENSURE ITS CONTINUED FUNCTIONALITY.

LAYOUT AND MATERIALS NOTES

ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

COORDINATE THE LOCATION OF ALL SITE LIGHT STANDARDS WITH IMPROVEMENTS SHOWN ON THESE DRAWINGS.

CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER, ARCHITECT AND THE ENGINEER FOR RESOLUTION.

DIMENSIONS OF DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB.

DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING TO FACE OF CURB. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL STAKE OUT BUILDING FROM THE LATEST ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES BETWEEN SITE PLAN DIMENSIONS AND BUILDING PLANS BEFORE PROCEEDING WITH ANY PORTION OF SITE WORK WHICH MAY BE AFFECTED SO THAT PROPER ADJUSTMENTS TO THE SITE LAYOUT CAN BE MADE IF NECESSARY.

SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND ALL DETAIL CONTIGUOUS TO THE BUILDING, LIGHTING, ENTRANCE PATIO, DOORWAY PADS, LOADING DOCK DETAILS, ETC.

ACCESSIBLE RAMPS SHALL BE PER MASSACHUSETTS STATE CODE AND THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES (WHICHEVER IS MORE STRINGENT).

EACH HANDICAP PARKING SPACE SHALL BE IDENTIFIED BY A SIGN SIX (6) FEET IN HEIGHT LOCATED AT THE FACE OF THE CURBLINE. THE SIGN SHALL CONTAIN THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS DESCRIBED IN THE AMERICANS WITH DISABILITIES ACT, PUBLIC LAW 101-336, (SEE DETAIL).

PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

GRADING, DRAINAGE AND UTILITY NOTES

UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "BIG SAFE" AT 1-888-344-7233 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.

ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER, ARCHITECT AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.

ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES, GRADES AND OTHER SPECIFIC REQUIREMENTS OR SPECIFICATIONS OF THE CITY OF CAMBRIDGE AND CITY OF SOMERVILLE DPW.

AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS. PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN.

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER AND ARCHITECT. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER, ARCHITECT AND ENGINEER FOR RESOLUTION.

ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE PAVEMENT FINISH GRADE UNLESS OTHERWISE NOTED. RIM ELEVATIONS OF DRAINAGE STRUCTURES AND SANITARY SEWER MANHOLES ARE APPROXIMATE.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.

EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS SPECIFIED. ANY DISCREPANCIES NOT ALLOWING THIS MINIMUM PITCH SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WORK.

THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.

UNLESS OTHERWISE INDICATED, ABANDONED EXISTING UTILITY LINES SHALL BE CAPPED AND ABANDONED IN PLACE UNLESS THEY CONFLICT WITH PROPOSED IMPROVEMENTS. CAP REMAINING PORTIONS WHERE PARTIALLY REMOVED.

LEGEND AND ABBREVIATIONS

EXISTING	PROPOSED		EXISTING	PROPOSED	
		SEWER LINE/MANHOLE			MINOR CONTOUR
		DRAIN LINE			MAJOR CONTOUR
		ROOF DRAIN LINE			SPOT ELEVATION
		CATCH BASIN			AREA DRAIN
		FLARED END/INVERT			BITUMINOUS CONCRETE
		GAS LINE/GATE			BENCHMARK
		WATER LINE/GATE			CABLE TELEVISION
		HYDRANT			CEMENT LINED DUCTILE IRON
		TELEPHONE LINE/MANHOLE			CONCRETE
		ELECTRIC LINE/MANHOLE			EDGE OF PAVEMENT
		OVERHEAD WIRE			GAS METER
		LIGHT POLE			HEAD WALL
		UTILITY POLE			LOADING DOCK
		GUY WIRE			POLYVINYL CHLORIDE
		SIGN			REINFORCED CONCRETE PIPE
		POST			ROOF DRAIN
		BOLLARD POST			RIGHT-OF-WAY
		HAND HOLE			SLOPED GRANITE CURB
		CHAIN LINK FENCE			ELECTRIC TRANSFORMER
		GRANITE CURB			WATER QUALITY INLET
		BITUMINOUS CONCRETE BERM			STONE BOUND
		TREE			CONCRETE BOUND
		BUILDING			DRILL HOLE
					IRON PIN/IRON PIPE
					IRON ROD
					FOUND

DRAWING LIST

C1.0	NOTES, REFERENCES AND LEGEND
TP-1	TOPOGRAPHIC PLAN
C2.0	LAYOUT AND MATERIALS PLAN
C3.0	GRADING, DRAINAGE AND UTILITY PLAN
C4.0	SITE DETAILS
C4.1	SITE DETAILS

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Stamp

NOT FOR CONSTRUCTION

Revisions		
No.	Description	Date

Drawing Title

Notes, References and
Legend

B&T DWG. NO. 208429P290B-001

Job Number 15039-05 Drawing No.

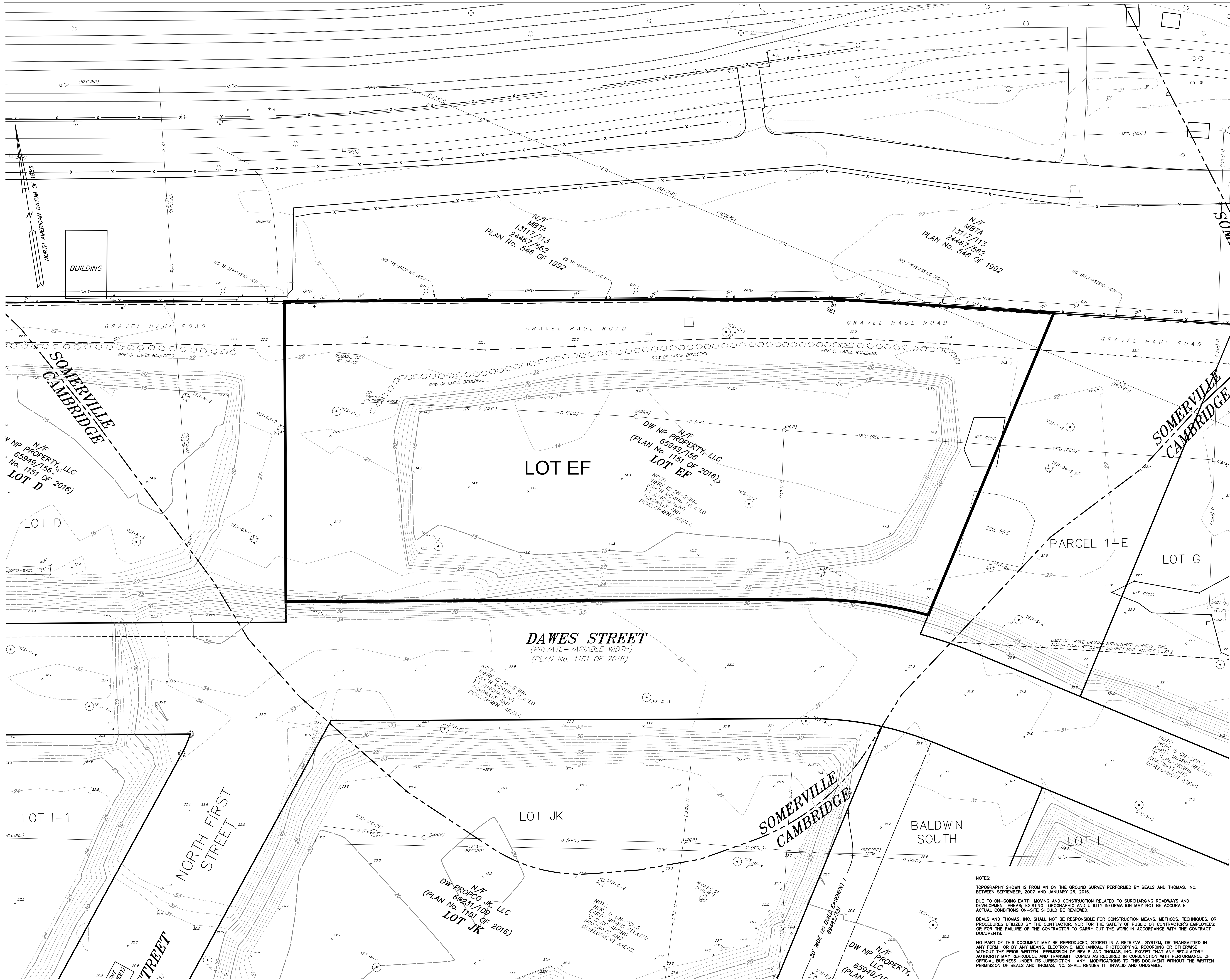
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Date 05 October 2017

Scale N/A

C1.0



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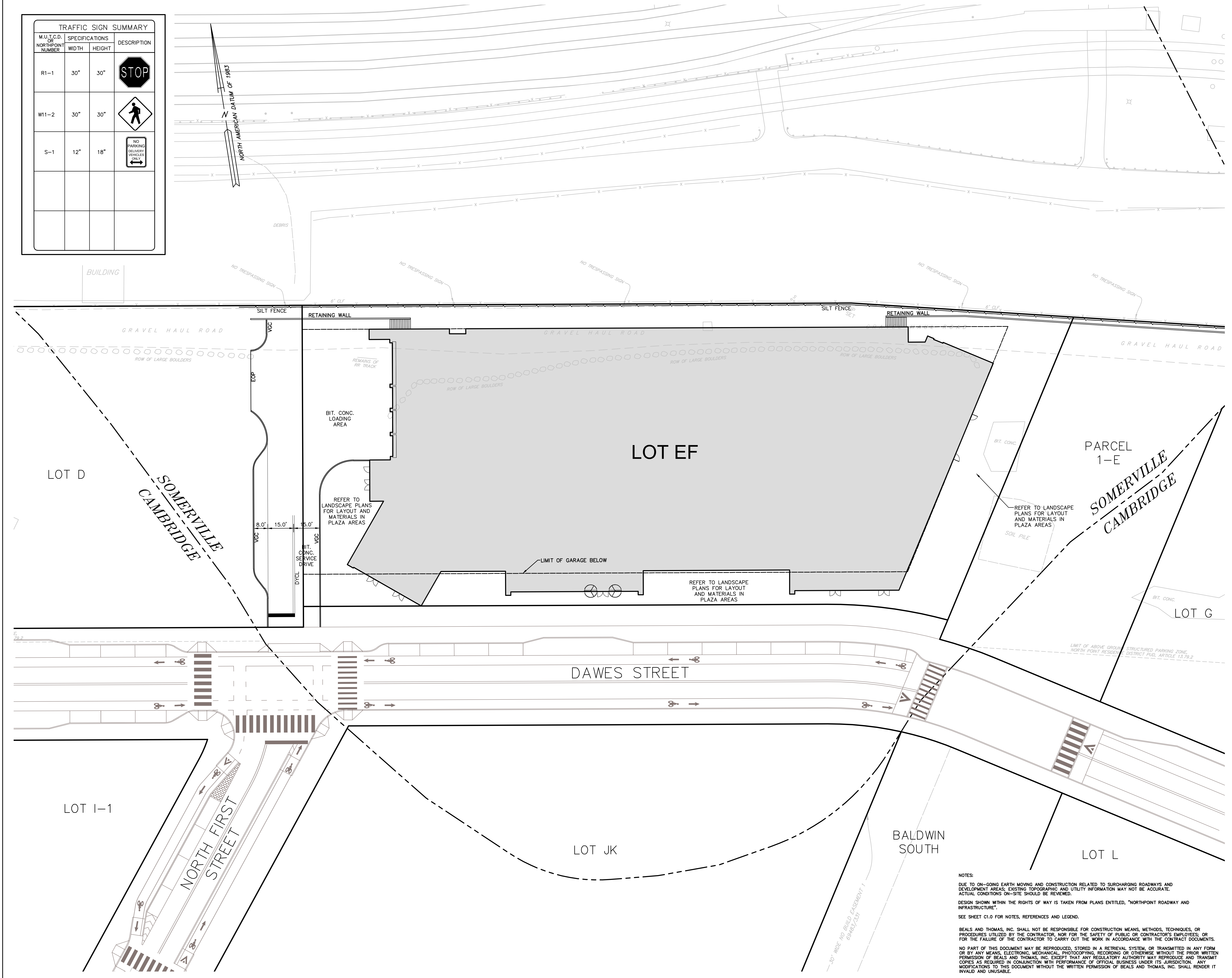
Revisions	No.	Description	Date

Drawing Title
Topographic Plan

B&T DWG. NO. 208429P291B-001
Job Number 15039-05 Drawing No.
Drawn by B&T
Checked B&T
Date 05 October 2017
Scale 1" = 20'

TP-1

TRAFFIC SIGN SUMMARY			
M.U.T.C.D. OR NORTHPOINT NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DESCRIPTION
R1-1	30"	30"	STOP
W11-2	30"	30"	PEDESTRIAN CROSSING
S-1	12"	18"	NO PARKING DELIVERY VEHICLES ONLY



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Revisions		
No.	Description	Date

Drawing Title

Layout and Materials Plan

B&T DWG. NO. 208429P292B-001

Job Number 15039-05 Drawing No.

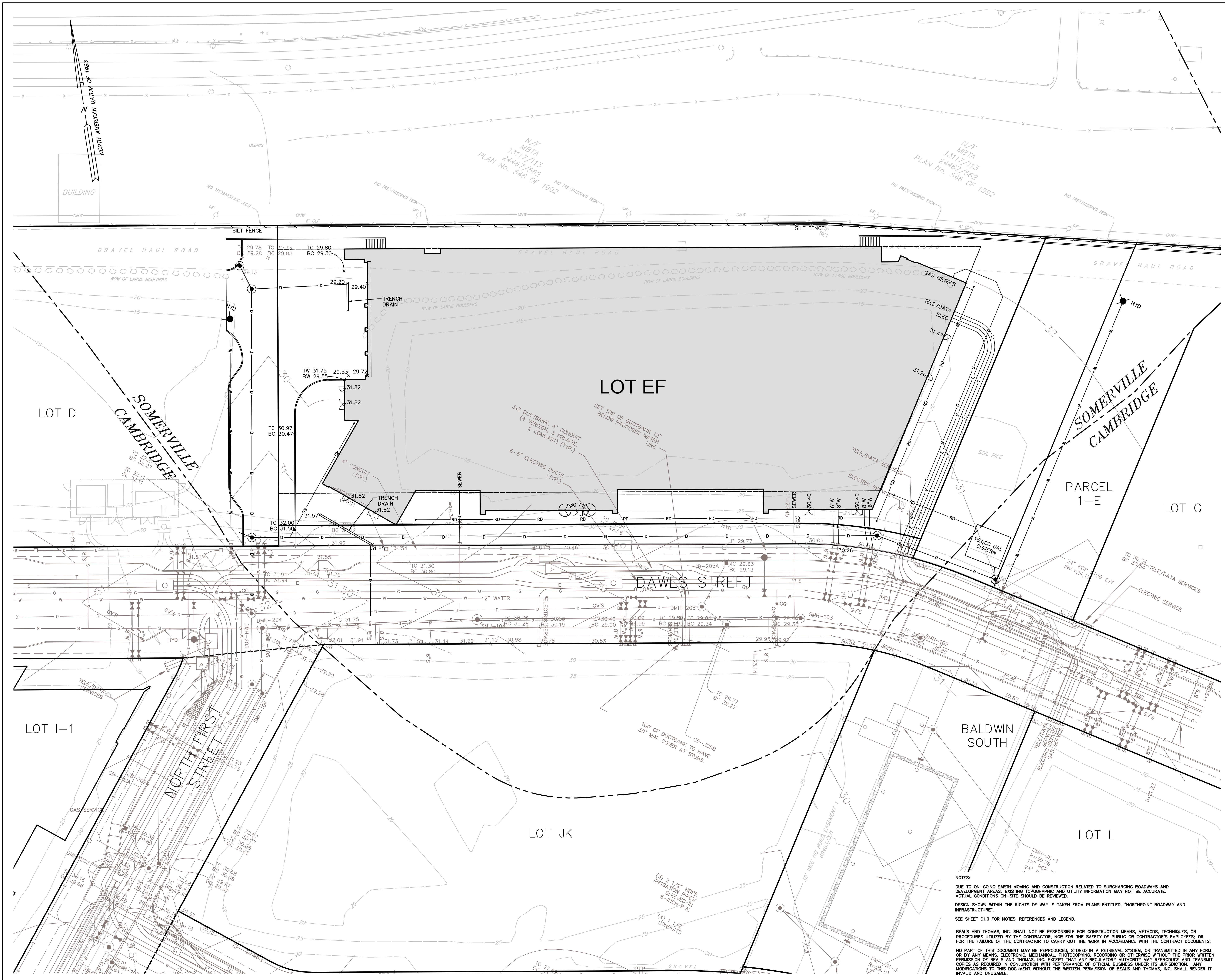
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Checked B&T

Date 05 October 2017

Scale 1" = 20'

C2.0



Stamp

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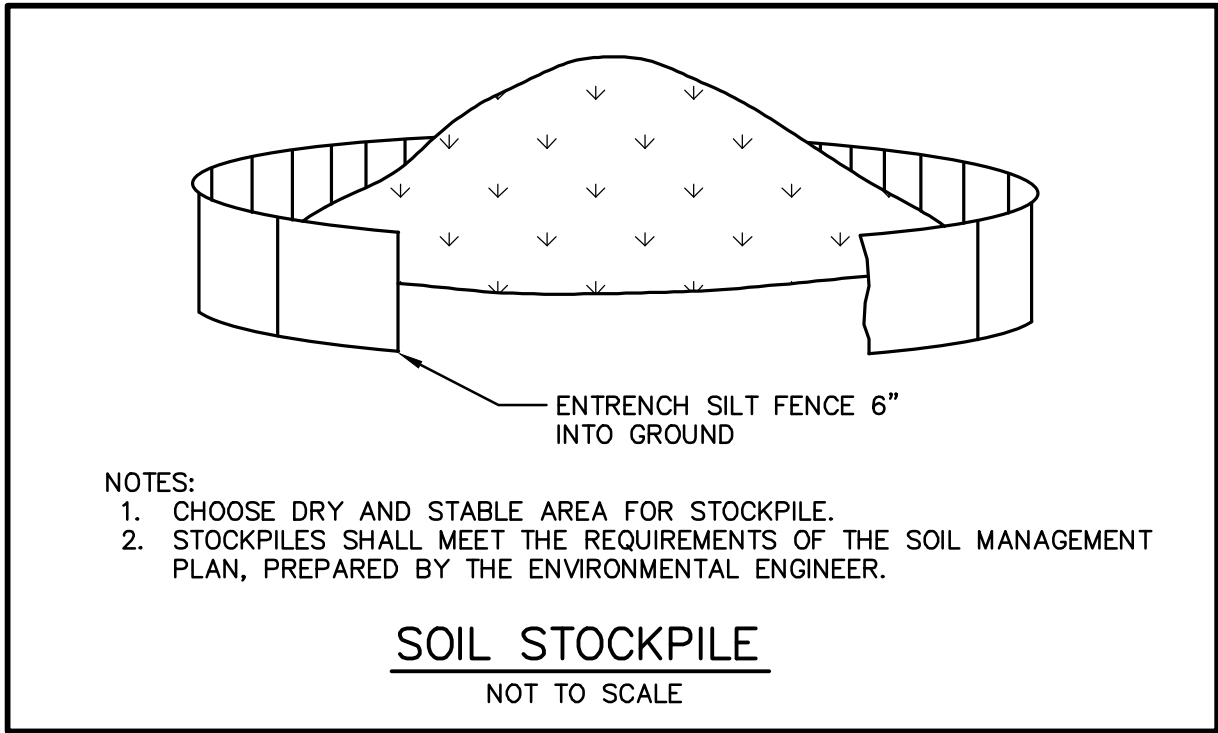
Revisions		
No.	Description	Date

Drawing Title
**Grading, Drainage and
Utilities Plan**

B&T DWG. NO. 208429P292B-002
Job Number 15039-05 Drawing No.
Drawn by B&T
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Date 05 October 2017
Scale 1" = 20'

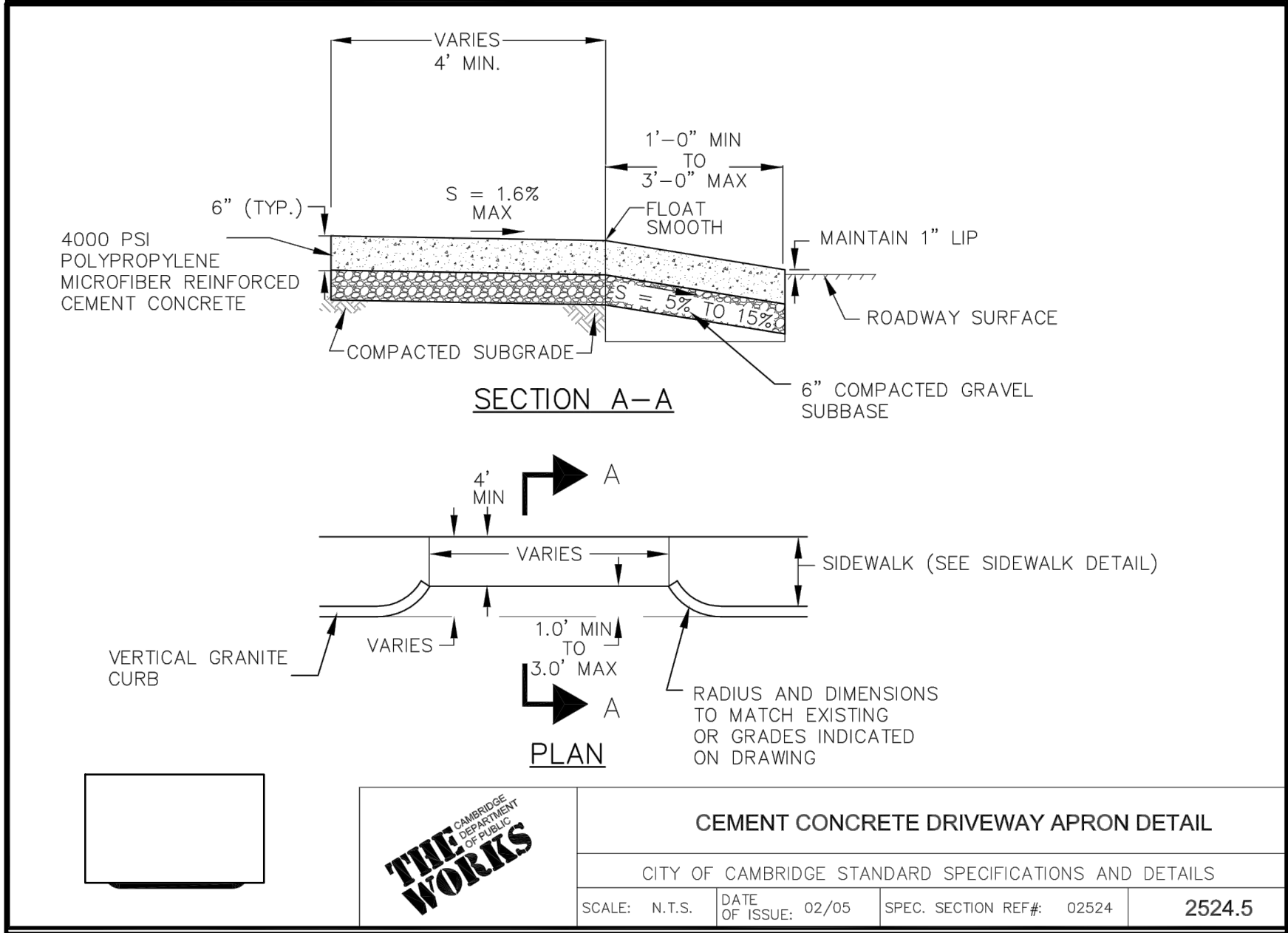
C3.0

NOTES:
DUE TO ON-GOING EARTH MOVING AND CONSTRUCTION RELATED TO SURCHARGING ROADWAYS AND DEVELOPMENT AREAS, EXISTING TOPOGRAPHIC AND UTILITY INFORMATION MAY NOT BE ACCURATE. ACTUAL CONDITIONS ON-SITE SHOULD BE REVIEWED.
DESIGN SHOWN WITHIN THE RIGHTS OF WAY IS TAKEN FROM PLANS ENTITLED, "NORTHPOINT ROADWAY AND INFRASTRUCTURE".
SEE SHEET C1.0 FOR NOTES, REFERENCES AND LEGEND.
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- NOTES:
1. CHOOSE DRY AND STABLE AREA FOR STOCKPILE.
 2. STOCKPILES SHALL MEET THE REQUIREMENTS OF THE SOIL MANAGEMENT PLAN, PREPARED BY THE ENVIRONMENTAL ENGINEER.

SOIL STOCKPILE
NOT TO SCALE



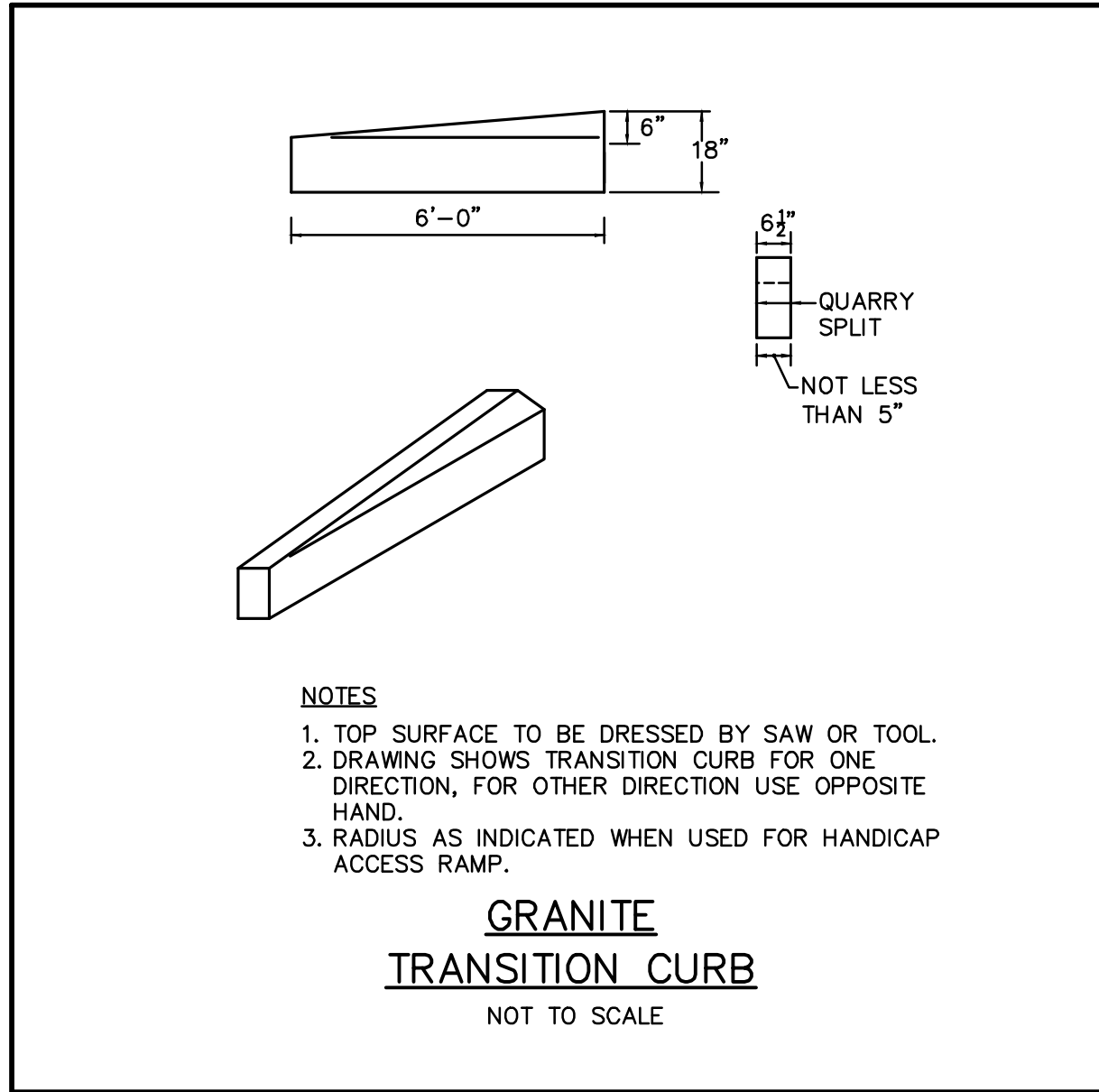
SECTION A-A

PLAN

CEMENT CONCRETE DRIVEWAY APRON DETAIL

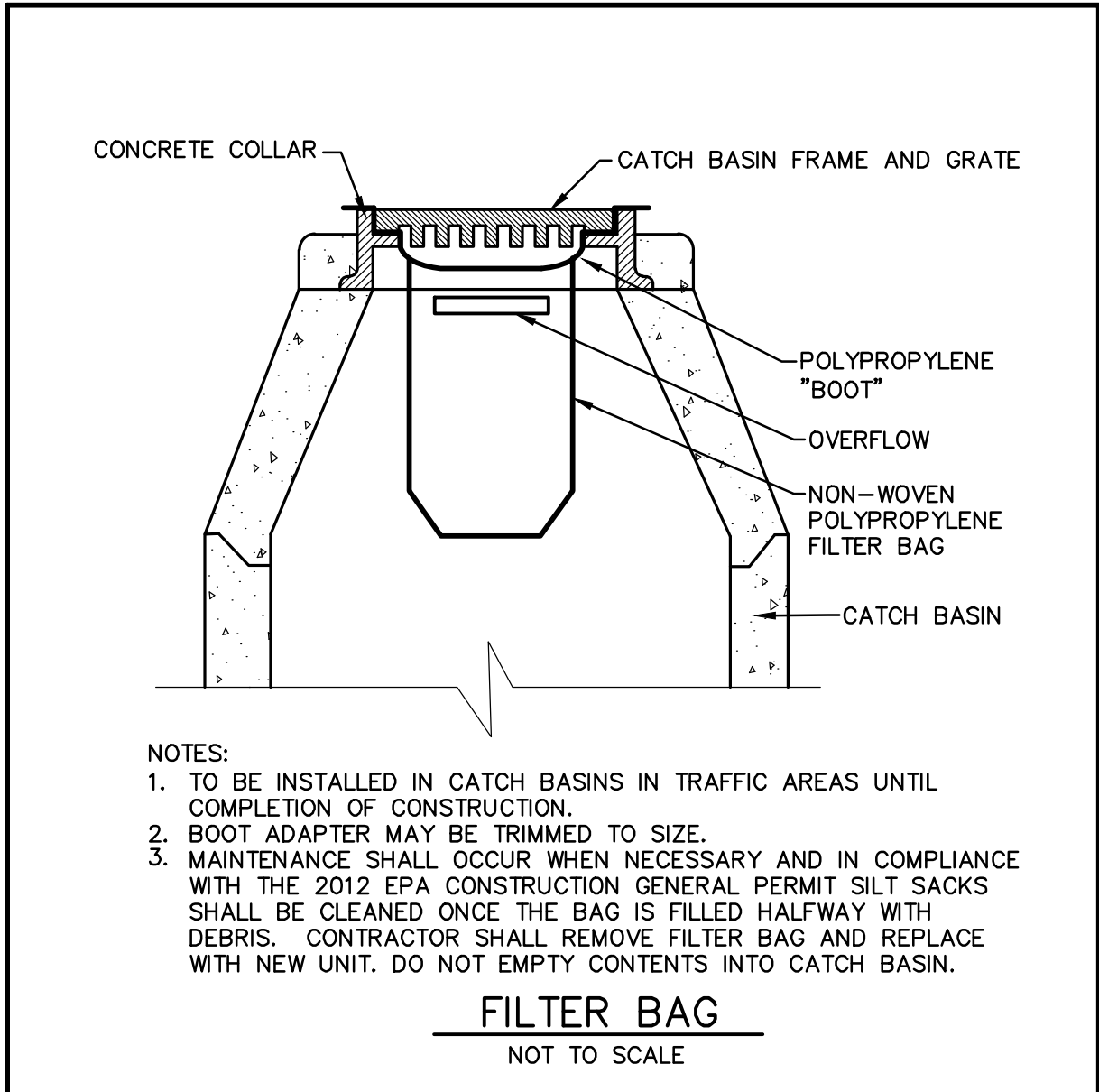
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE: 02/05 OF ISSUE: 02/05 SPEC. SECTION REF#: 02524 2524.5



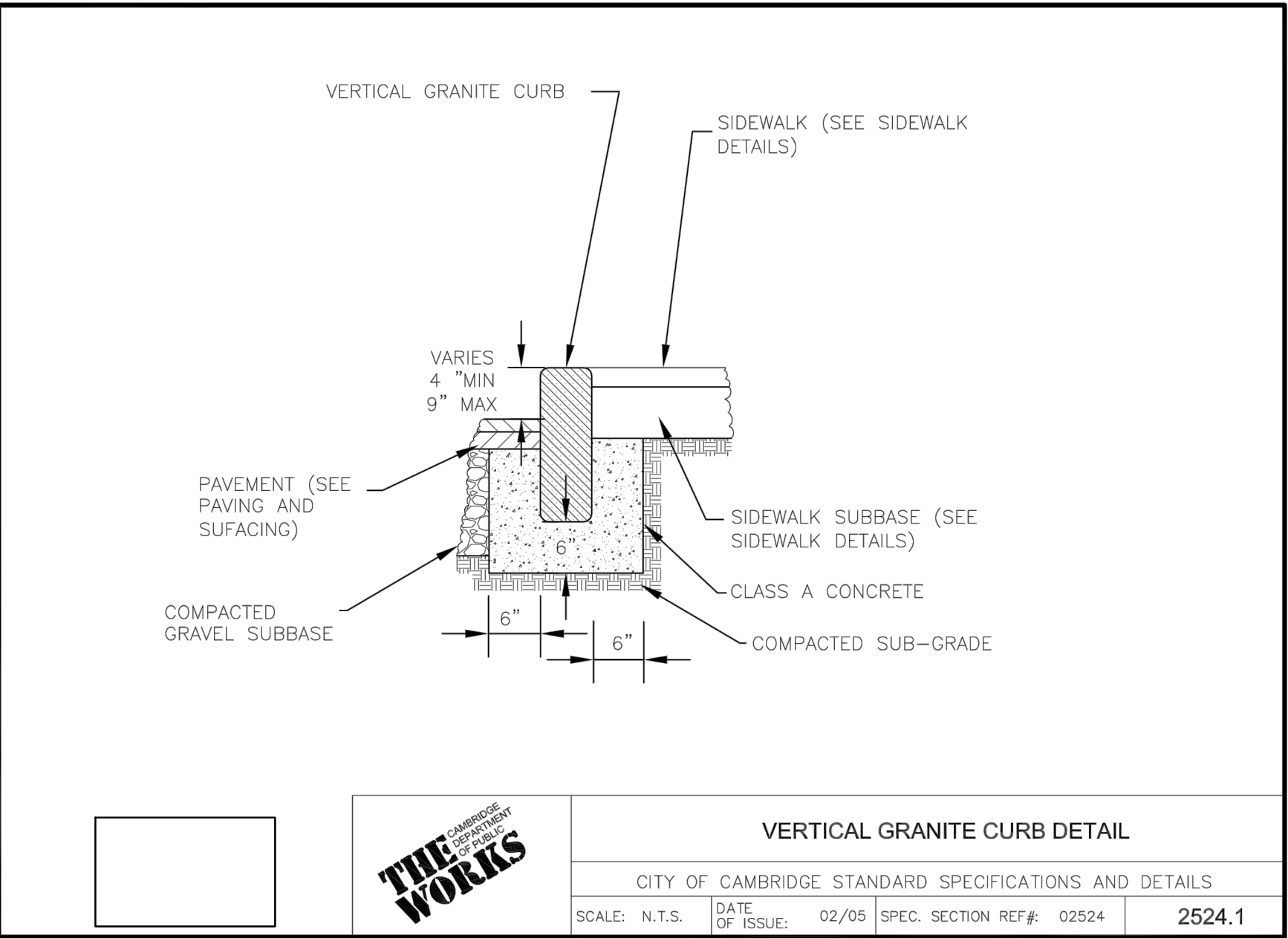
- NOTES:
1. TOP SURFACE TO BE DRESSED BY SAW OR TOOL.
 2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION, FOR OTHER DIRECTION USE OPPOSITE HAND.
 3. RADIUS AS INDICATED WHEN USED FOR HANDICAP ACCESS RAMP.

GRANITE
TRANSITION CURB
NOT TO SCALE



- NOTES:
1. TO BE INSTALLED IN CATCH BASINS IN TRAFFIC AREAS UNTIL COMPLETION OF CONSTRUCTION.
 2. BOOT ADAPTER MAY BE TRIMMED TO SIZE.
 3. MAINTENANCE SHALL OCCUR WHEN NECESSARY AND IN COMPLIANCE WITH THE 2012 EPA CONSTRUCTION GENERAL PERMIT. SILT SACKS SHALL BE CLEANED ONCE THE BAG IS FILLED HALFWAY WITH DEBRIS. CONTRACTOR SHALL REMOVE FILTER BAG AND REPLACE WITH NEW UNIT. DO NOT EMPTY CONTENTS INTO CATCH BASIN.

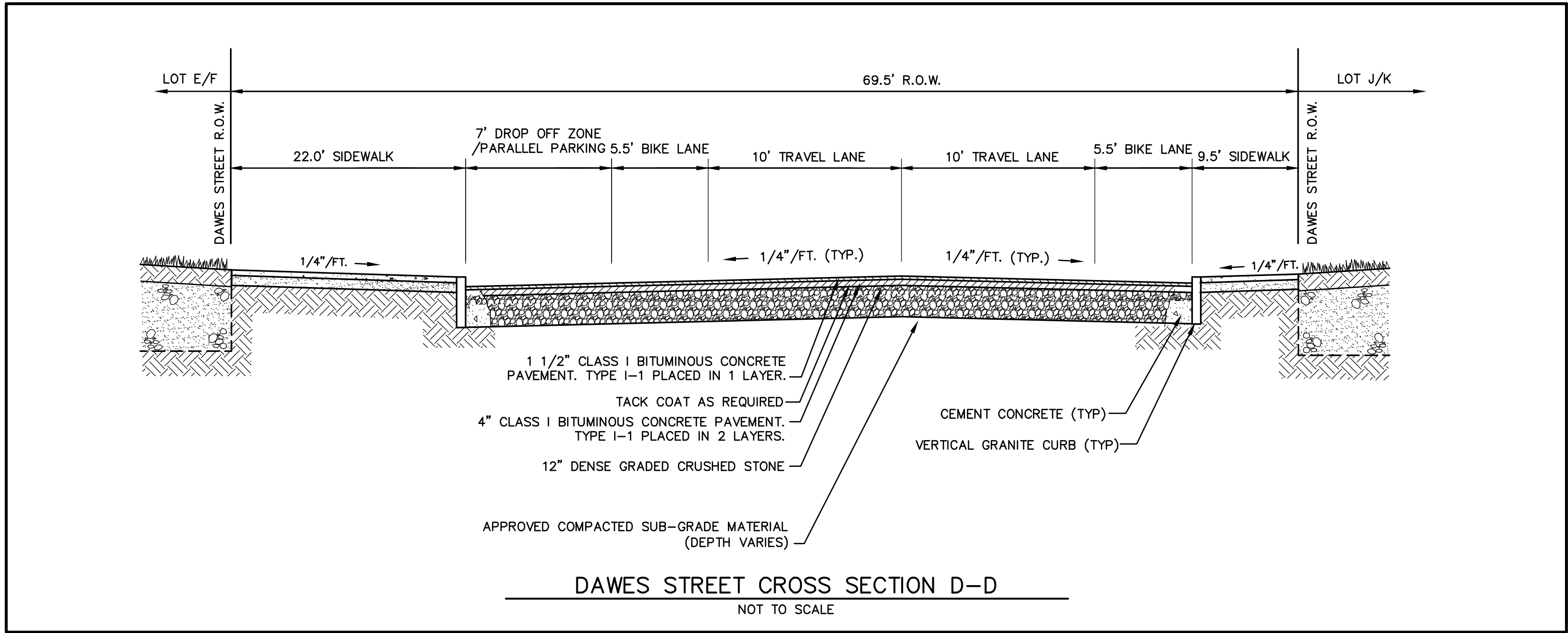
FILTER BAG
NOT TO SCALE



VERTICAL GRANITE CURB DETAIL

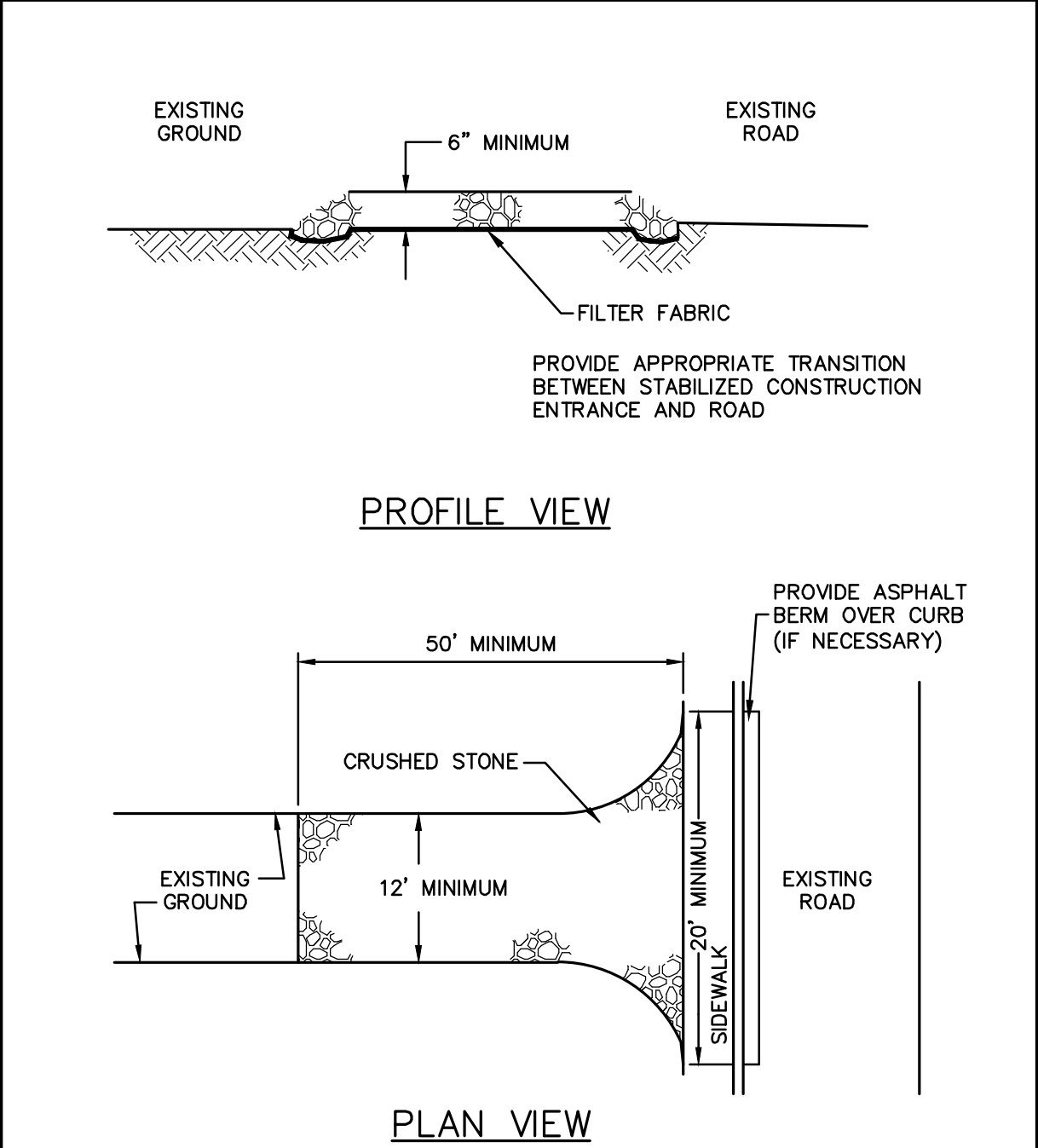
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DAWES STREET CROSS SECTION D-D

NOT TO SCALE



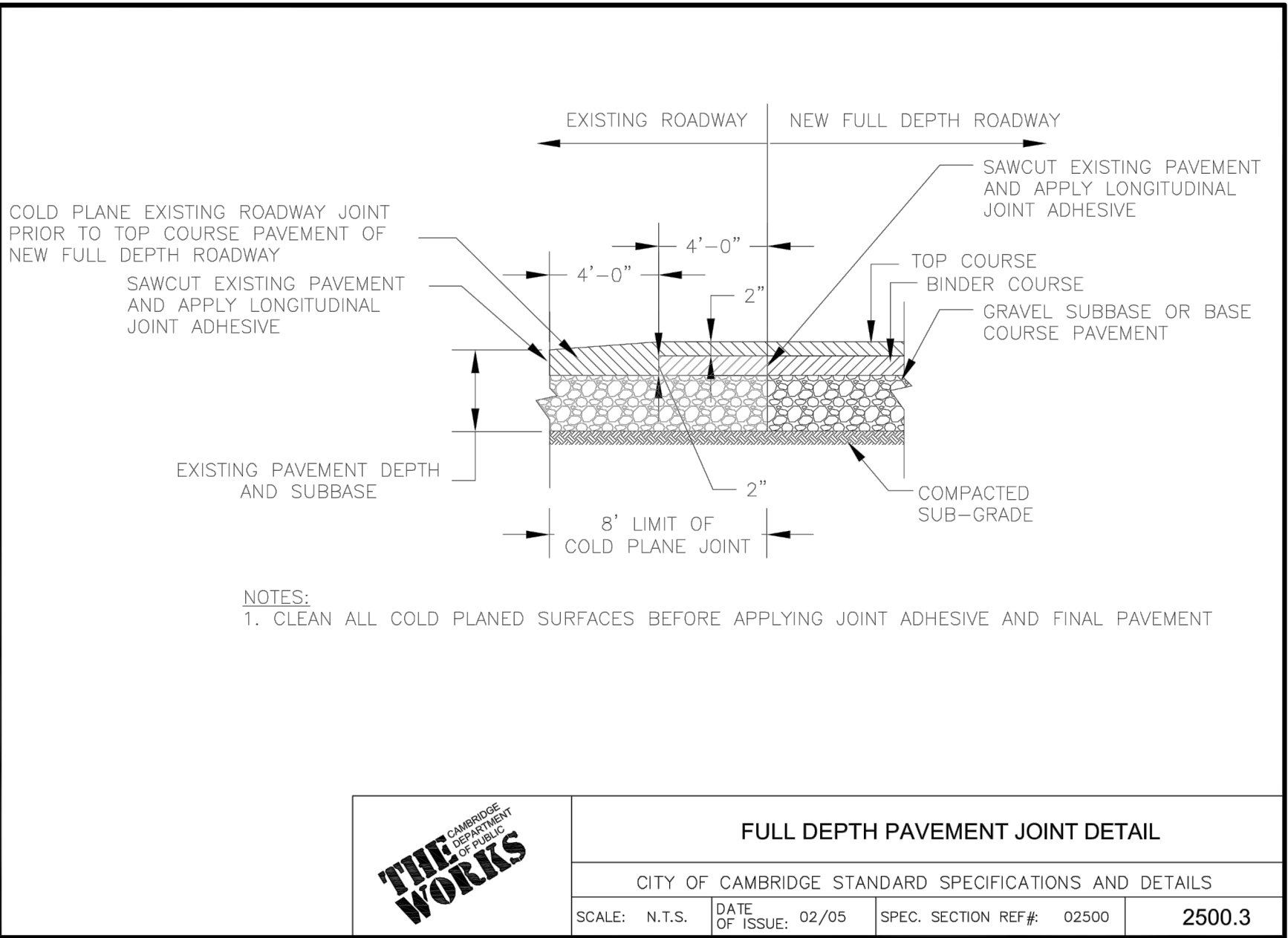
PROFILE VIEW

PLAN VIEW

- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING ROAD. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO EXISTING ROAD SHALL BE REMOVED IMMEDIATELY.
 2. NO PARKING ALLOWED WITHIN 10-FEET OF ALL CONSTRUCTION ENTRANCES. CONTRACTOR TO POST SIGNS ON EXISTING ROAD.
 3. PROVIDE DRAINAGE AWAY FROM STABILIZED CONSTRUCTION ENTRANCE TO AN ACCEPTABLE ON-SITE SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE

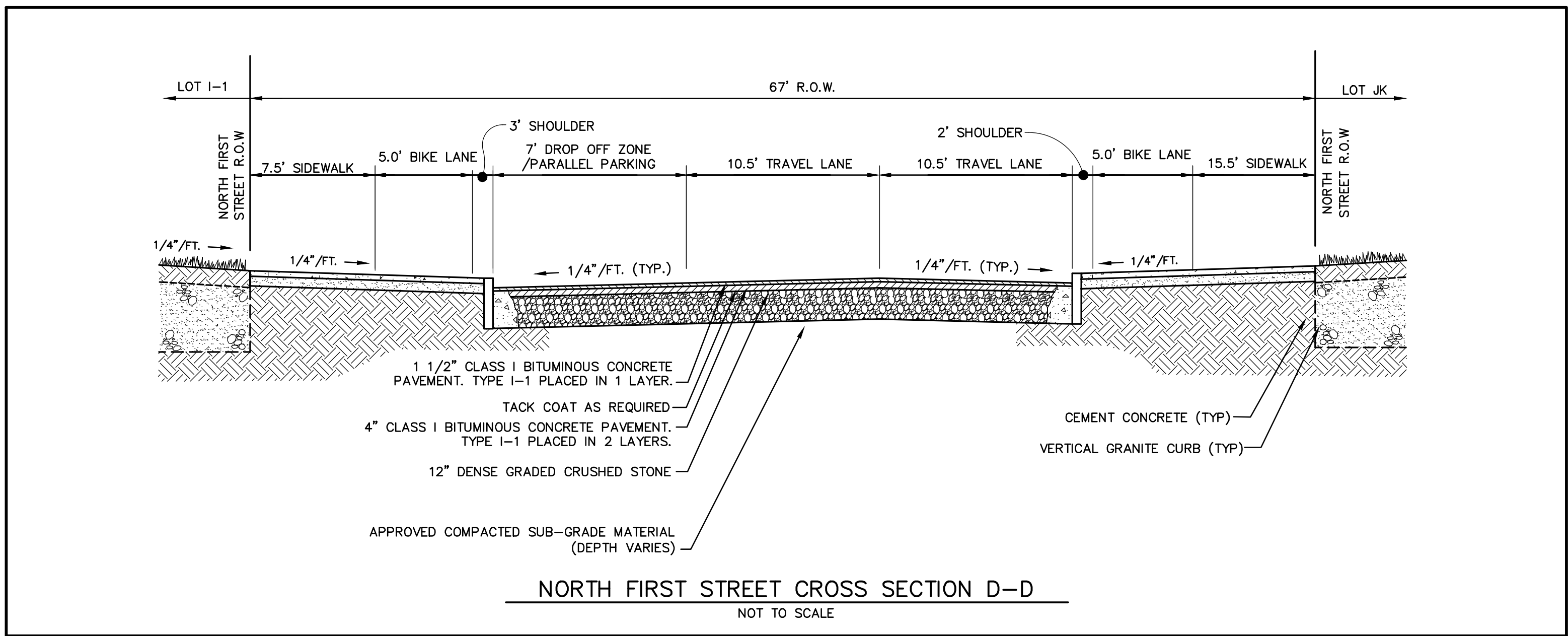
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FULL DEPTH PAVEMENT JOINT DETAIL

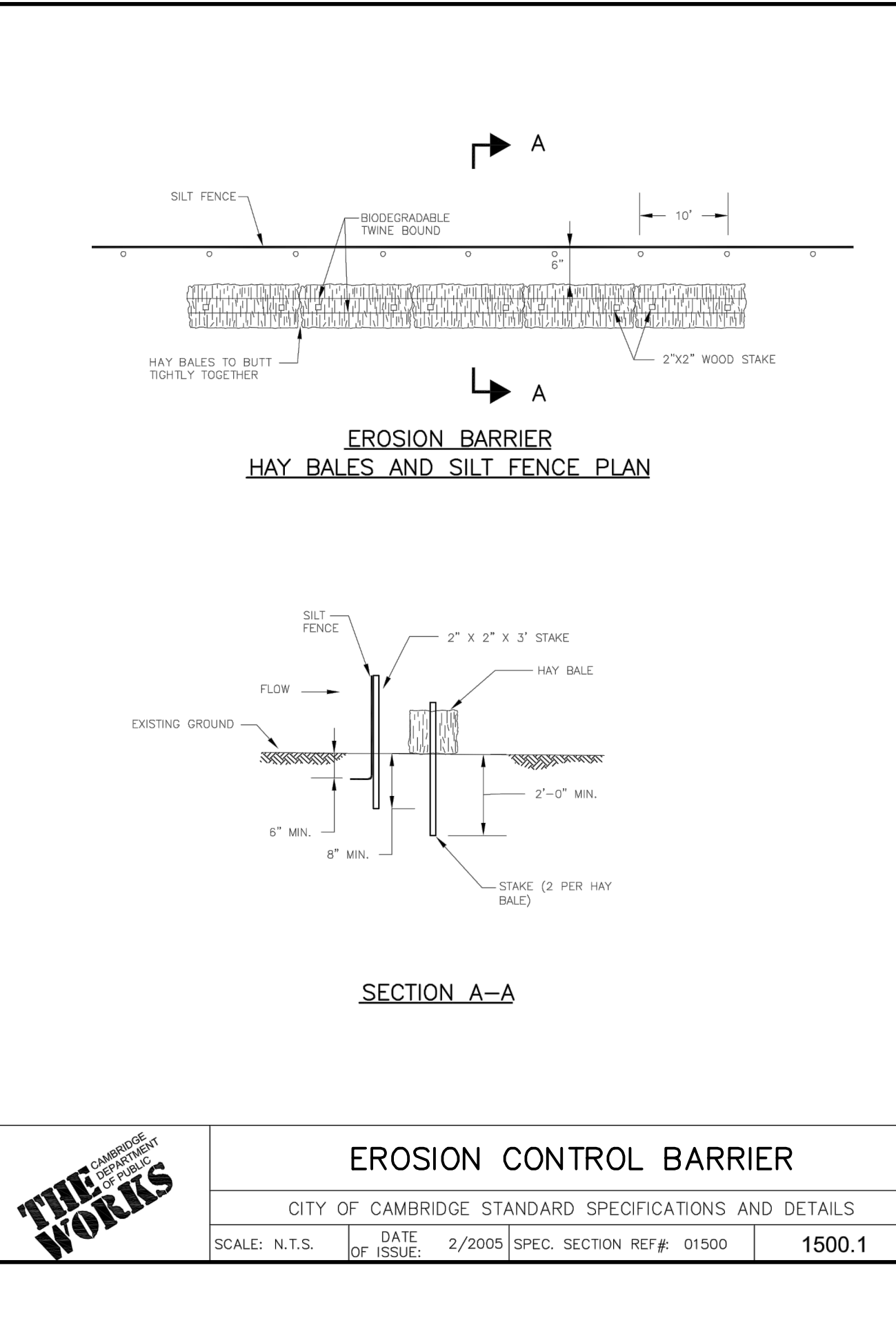
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE: 02/05 OF ISSUE: 02/05 SPEC. SECTION REF#: 02500 2500.3



NORTH FIRST STREET CROSS SECTION D-D

NOT TO SCALE



EROSION BARRIER
HAY BALES AND SILT FENCE PLAN

SECTION A-A

EROSION CONTROL BARRIER

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE: 2/2005 OF ISSUE: 01500 1500.1

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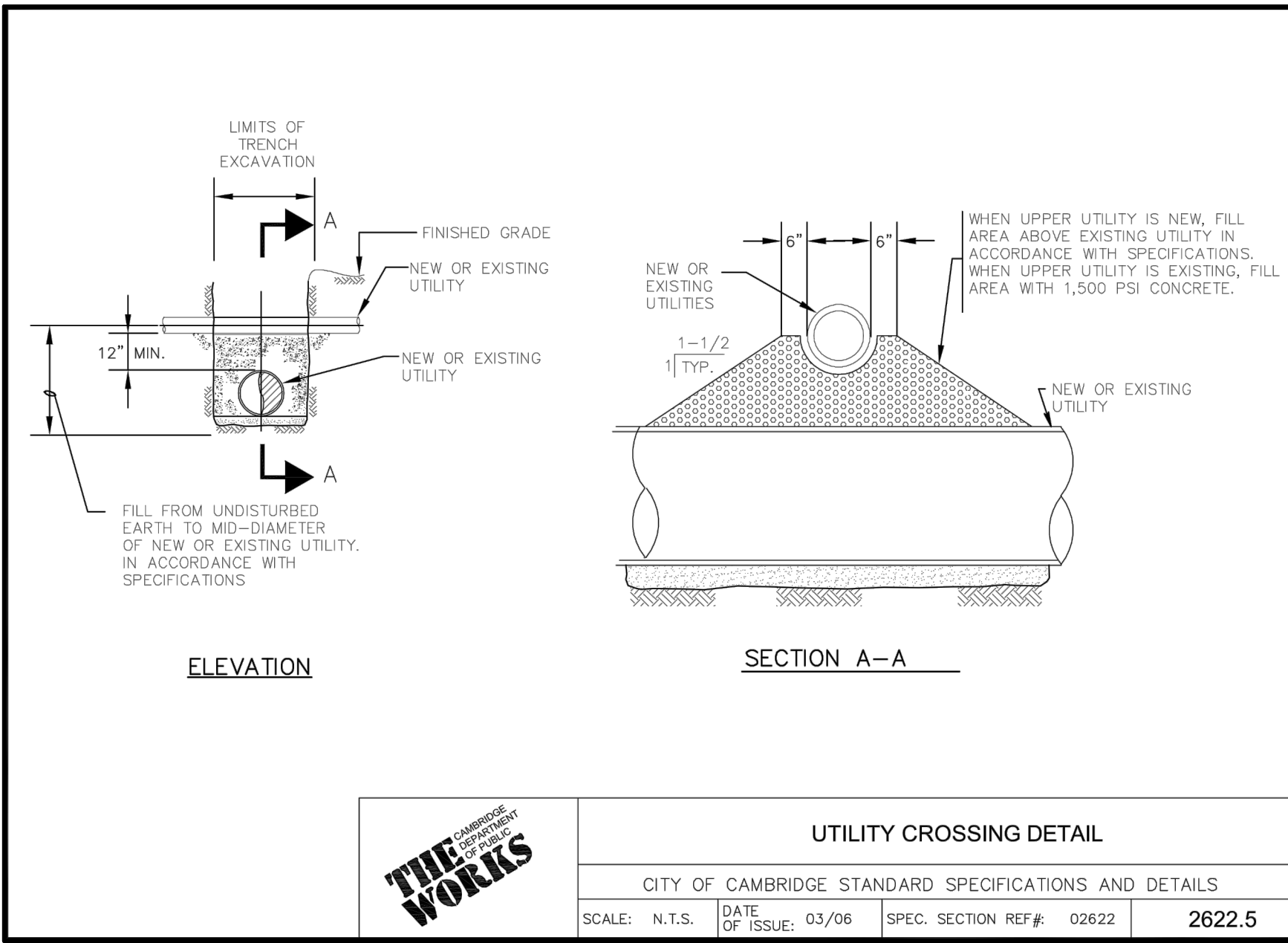
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GENERAL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE EXISTING FEATURES AND STRUCTURES WITHIN AND ADJACENT TO THE WORK. IN THE CASE OF DAMAGE, THE REPAIRS OR REPLACEMENT SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE AND/OR WARNING DEVICES AS REQUIRED TO CONTROL AND PROTECT THE PUBLIC IN ALL WORK AREAS.

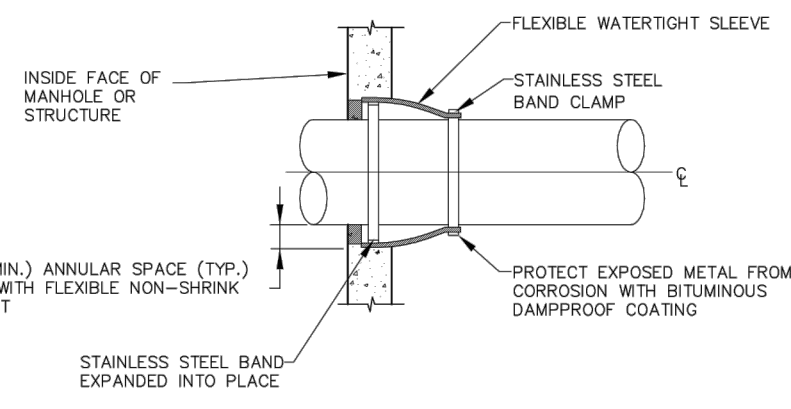
PIPE BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO 67.

PARTICLE SIZE	% PASSING
1" INCH SCREEN	100
3/4" INCH SCREEN	90-100
3/8" INCH SCREEN	20-55
#4 SIEVE	0-10
#8 SIEVE	0-5

WHERE DIRECTED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 1/2 INCH TO 1-1/2 INCH SHALL BE USED.

SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 80-100% PASSES 1/2 INCH SIEVE AND NOTE MORE THAN 15% PASSES #200 SIEVE.

CONCRETE ENGAGEMENT, IF REQUIRED, SHALL CONFORM TO THE REQUIREMENTS FOR 3,000 PSI CONCRETE.

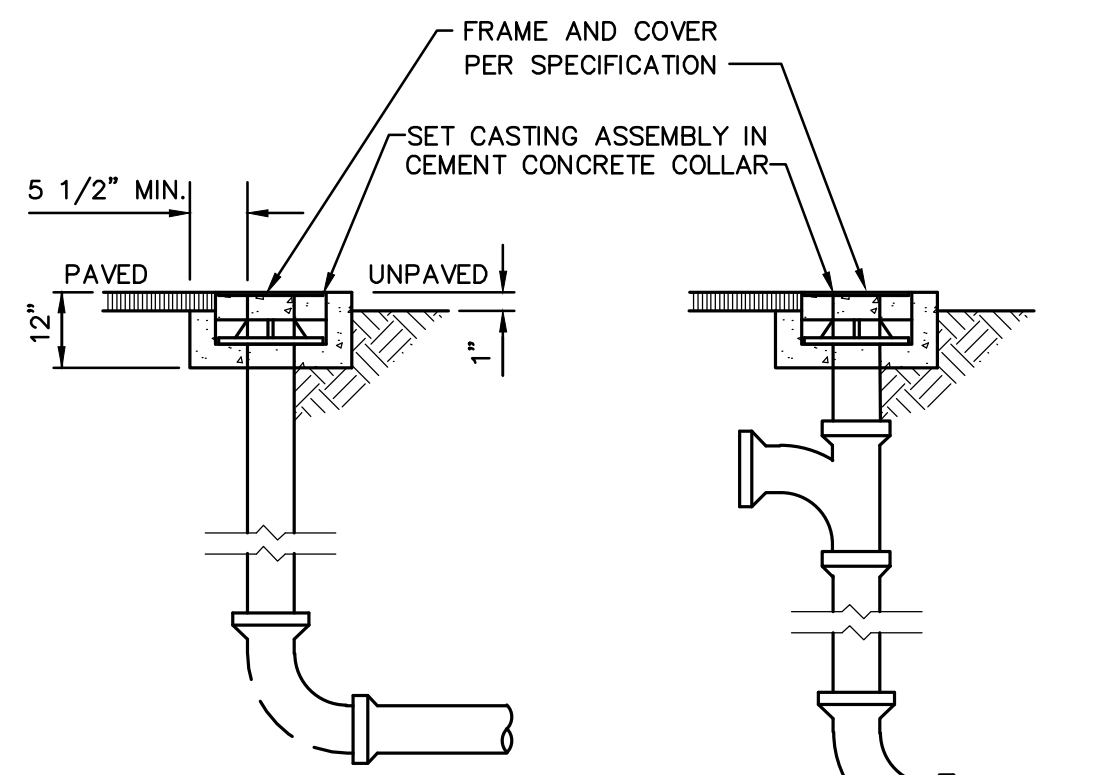


NOTE:
1. PRECAST OPENING OR CORE DRILLED INTO EXISTING STRUCTURE. SIZE VARIES TO ACCOMMODATE EXTENSION BONNET FLANGE DIAMETER OR PIPE.

FLEXIBLE SLEEVE CONNECTION DETAIL

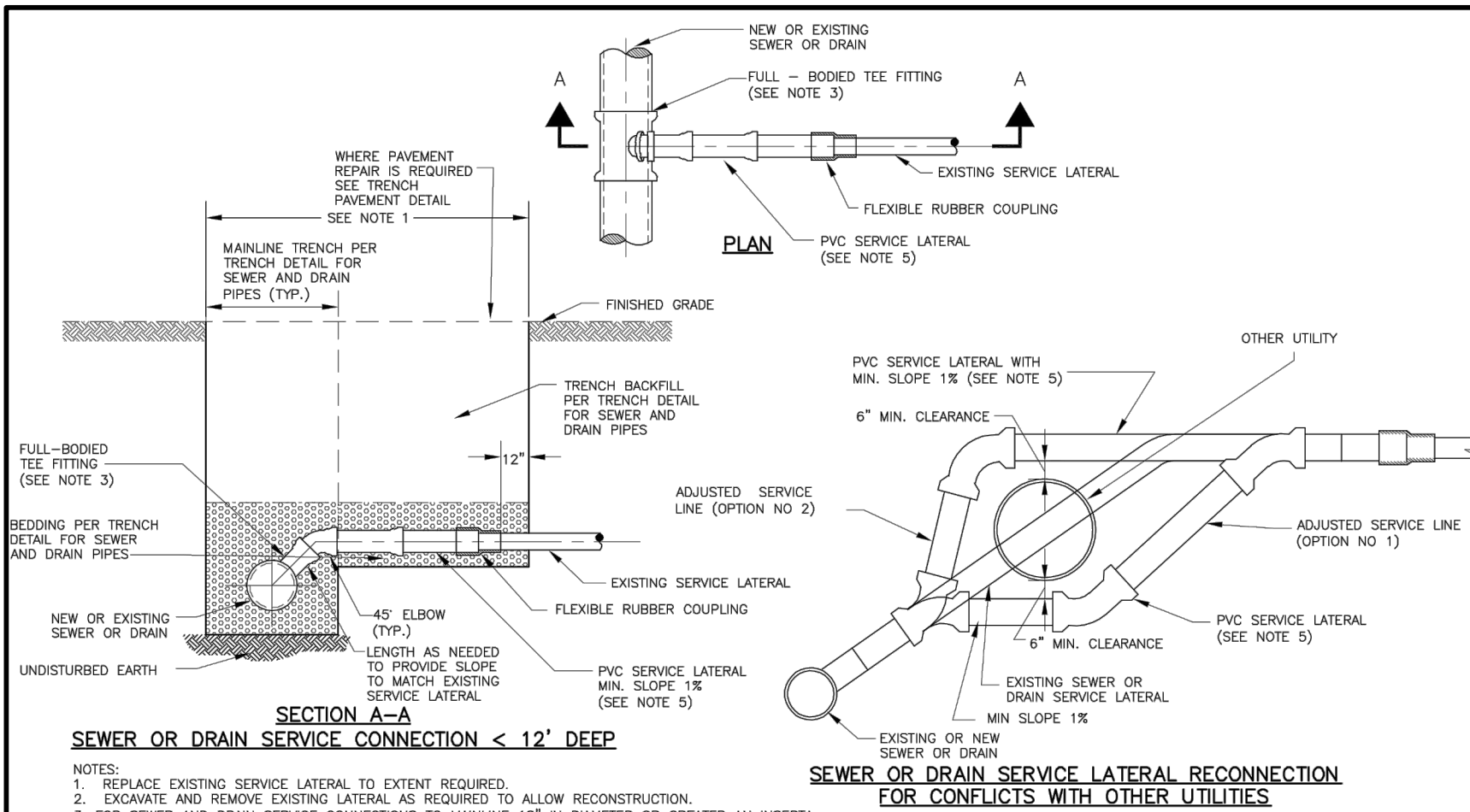
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE: 02/05 SPEC. SECTION REF#: 02252.15



DRAIN CLEANOUT

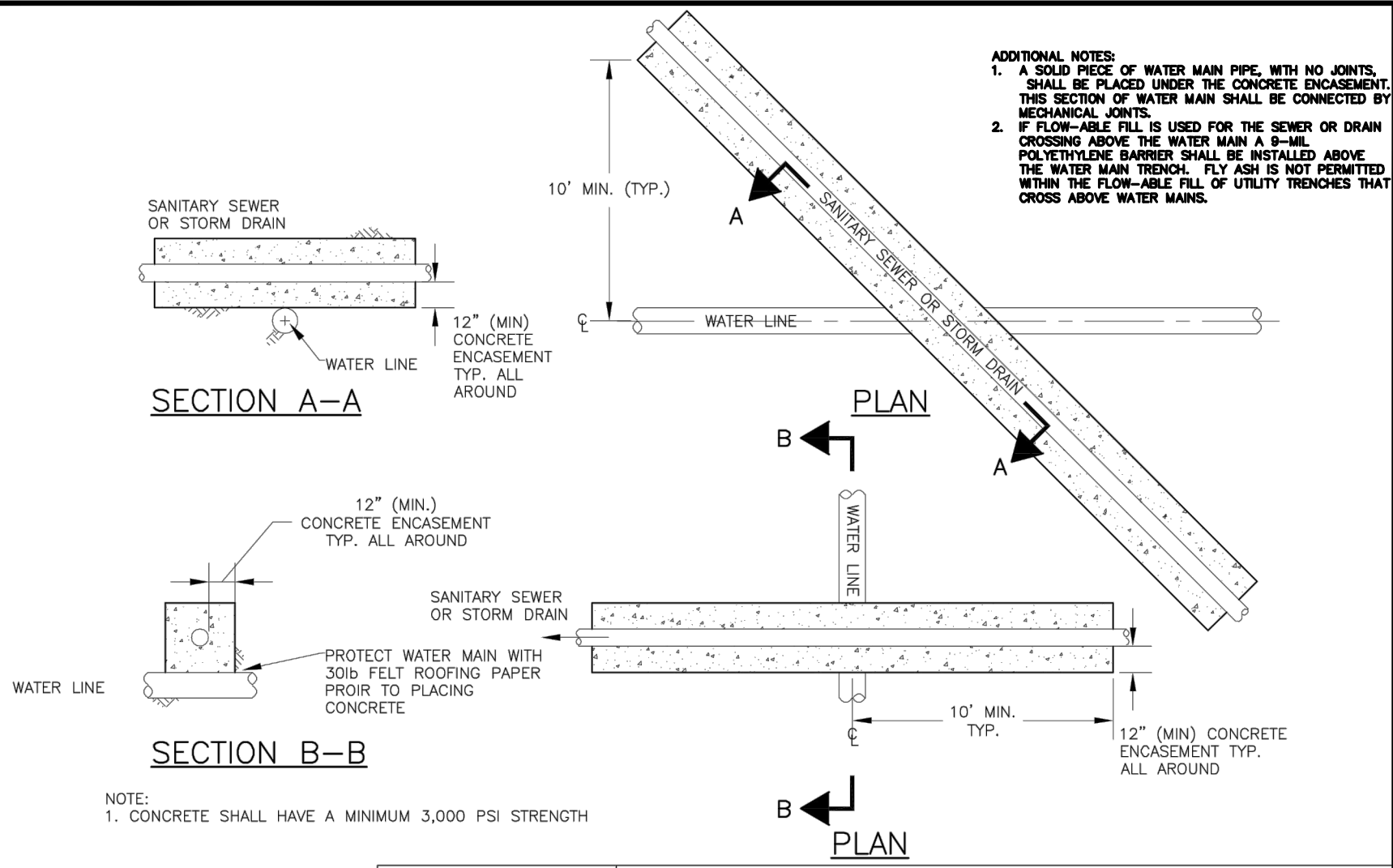
NOT TO SCALE



SEWER OR DRAIN SERVICE CONNECTION

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

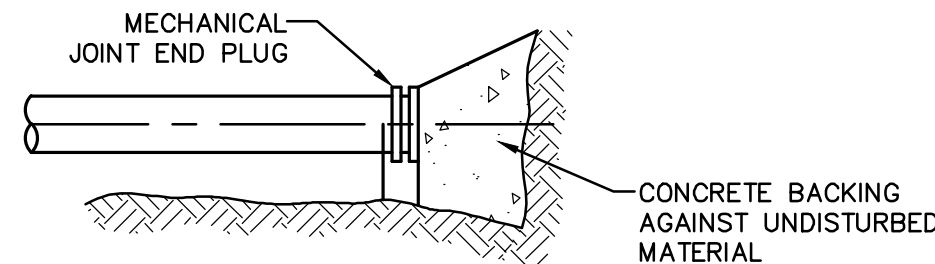
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STORM DRAIN AND SANITARY SEWER CROSSING ABOVE WATER MAIN

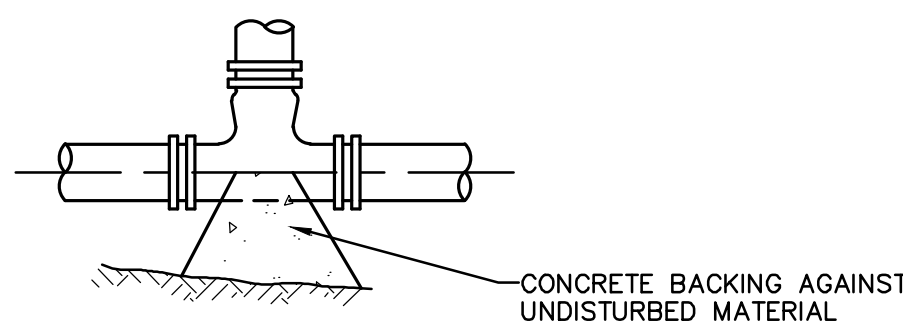
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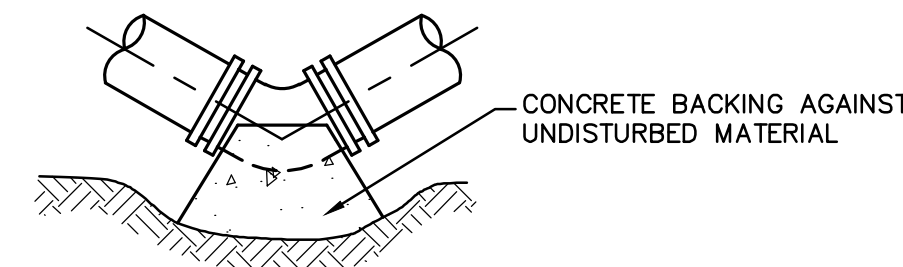
TYPICAL PLUG

NOT TO SCALE



TYPICAL TEE

NOT TO SCALE

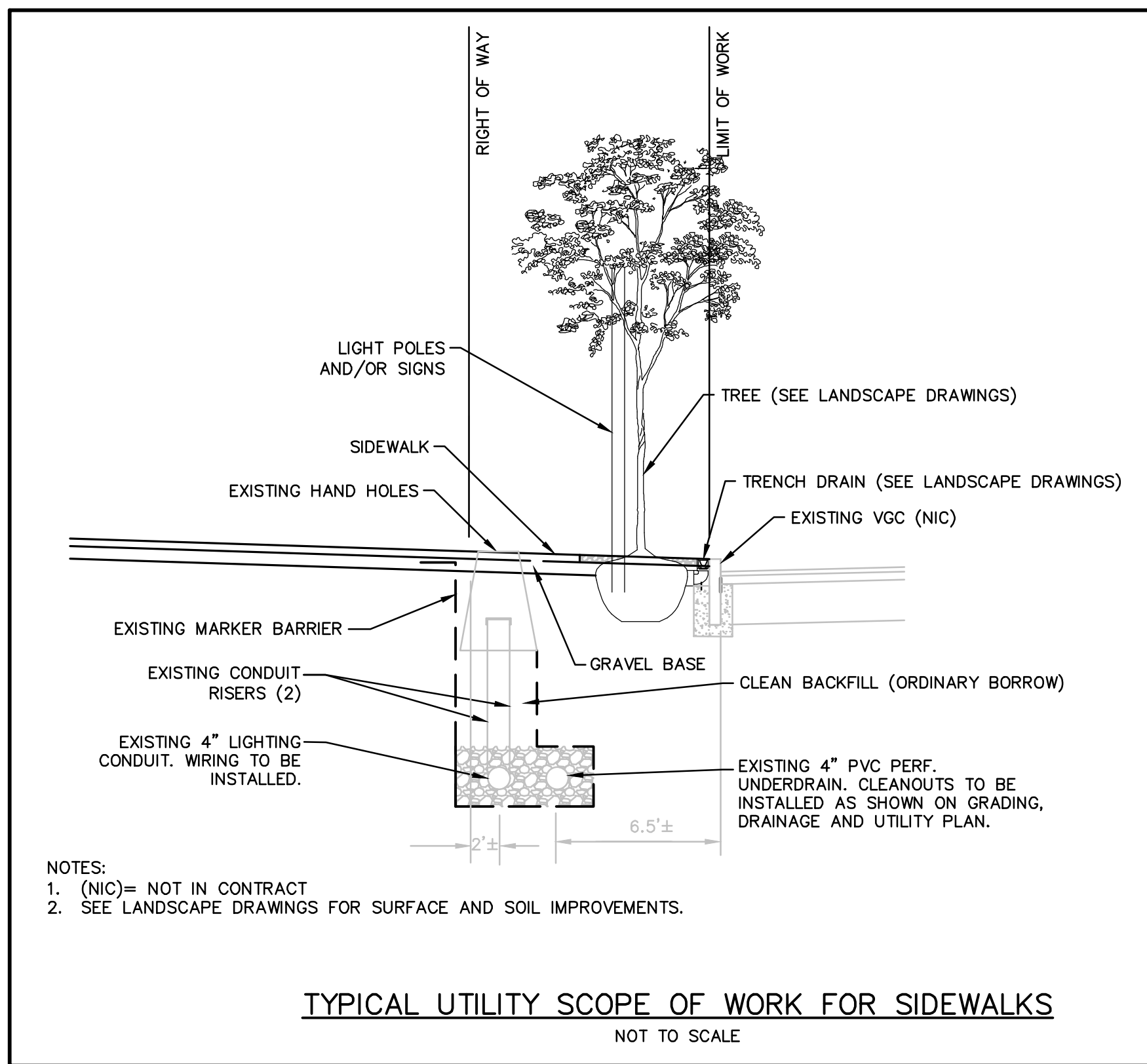


TYPICAL BEND

NOT TO SCALE

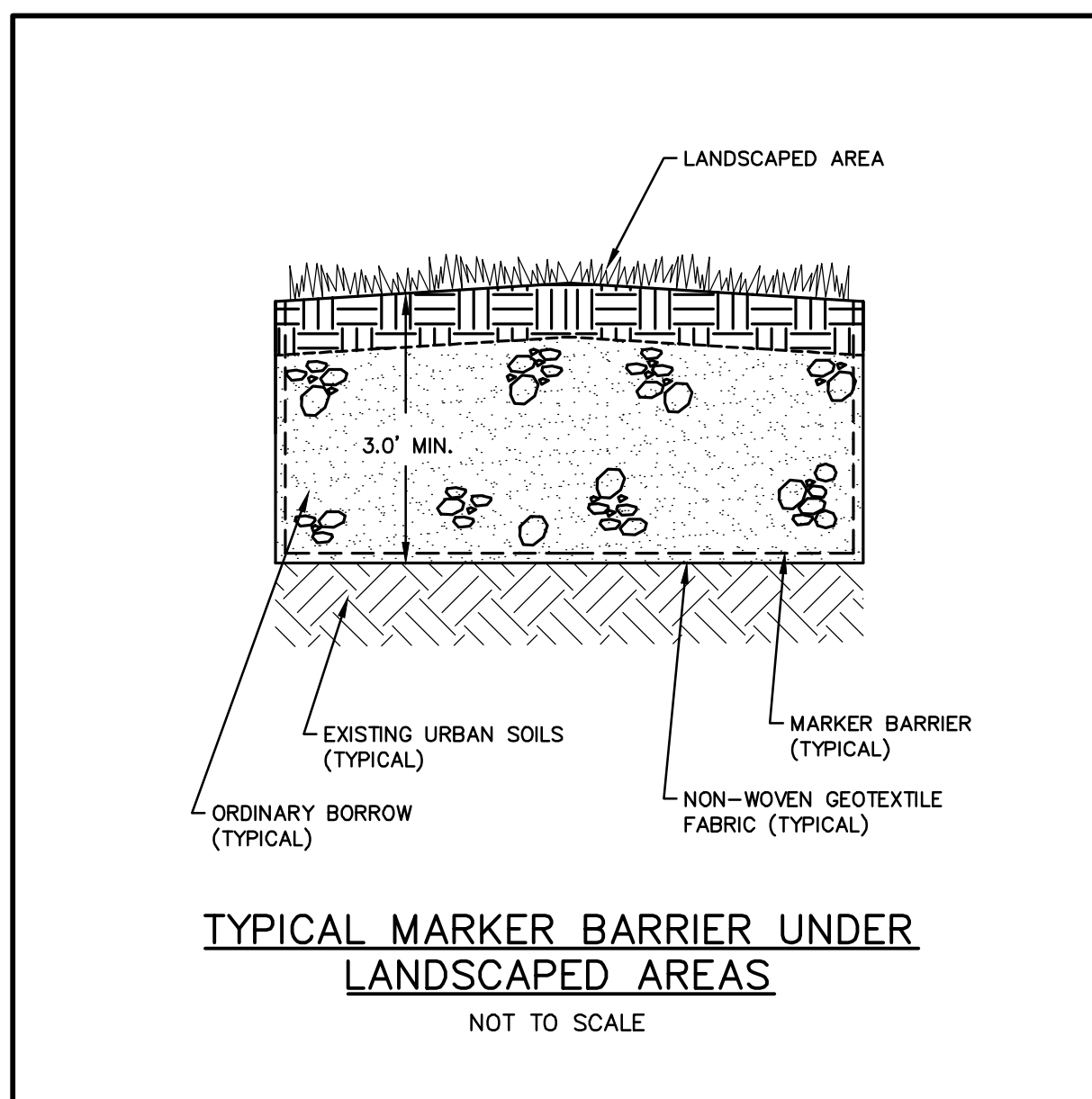
TABLE OF BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS			
SIZE OF MAIN (IN.)	45° BEND	TEES & PLUGS	22 1/2° BEND
8" OR LESS	8	10	8
10" & 12"	22	16	13

CONCRETE BACKING FOR WATER PIPE



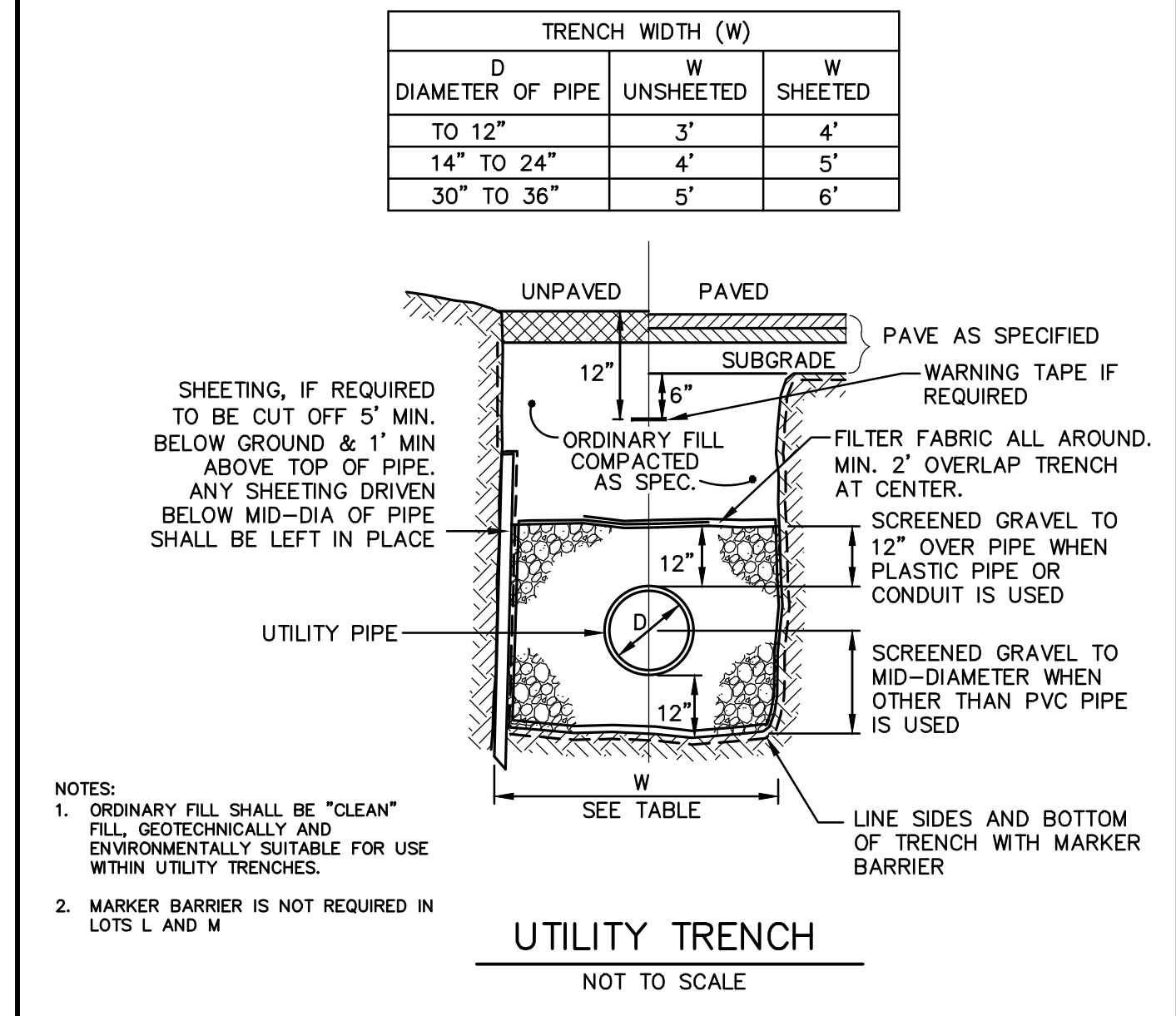
TYPICAL UTILITY SCOPE OF WORK FOR SIDEWALKS

NOT TO SCALE



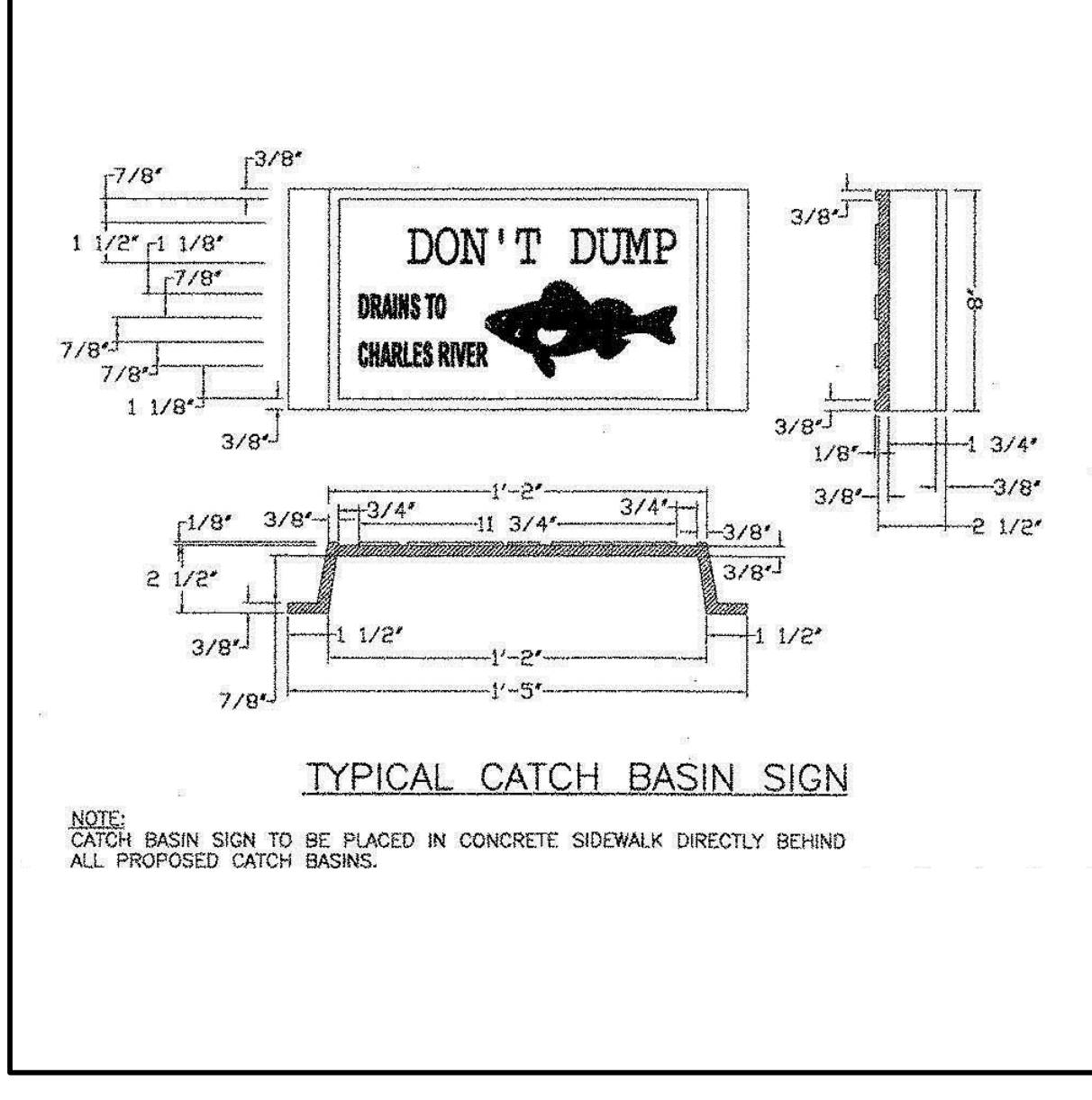
TYPICAL MARKER BARRIER UNDER LANDSCAPED AREAS

NOT TO SCALE



UTILITY TRENCH

NOT TO SCALE



TYPICAL CATCH BASIN SIGN

NOTE: CATCH BASIN SIGN TO BE PLACED IN CONCRETE SIDEWALK DIRECTLY BEHIND ALL PROPOSED CATCH BASINS.

TK&A

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Revisions		
No.	Description	Date

Drawing Title

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Job Number 15039-05 Drawing No.

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Date 05 October 2017

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