

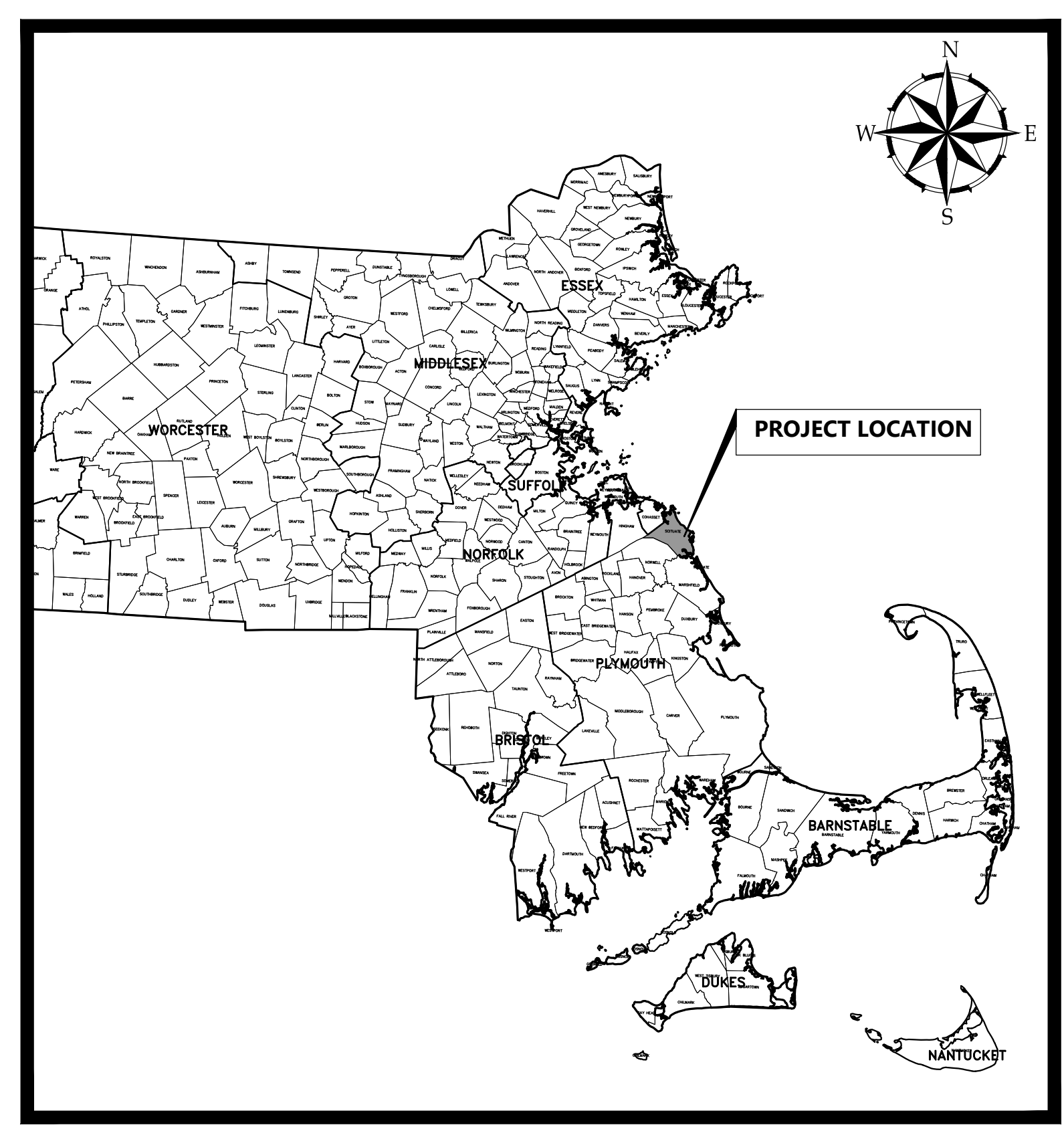
TOWN OF SCITUATE, MASSACHUSETTS

453 CHIEF JUSTICE CUSHING HIGHWAY

STEARNS MEADOW DRINKING

WATER TREATMENT PLANT

SITE PLAN APPROVAL
AUGUST 10, 2023



PROJECT LOCATION MAP

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C-301	SITE LAYOUT PLAN
C-302	SITE LAYOUT PLAN
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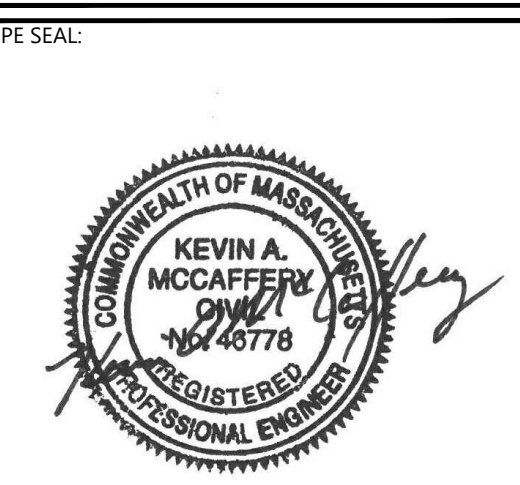
SITE LOCATION MAP

SOURCE: USGS TOPO QUADRANGLE
NOT TO SCALE



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THE PURPOSE OF THESE PLANS IS FOR SUBMITTAL FOR SITE PLAN APPROVAL UNDER THE TOWN OF SCITUATE ZONING REGULATIONS.



ISSUE FOR PERMIT

CLIENT INFO:
TOWN OF SCITUATE, MASSACHUSETTS
453 CHIEF JUSTICE CUSHING HIGHWAY
STEARNS MEADOW DRINKING WATER TREATMENT PLANT

REV	MM/DD/YY	DESCRIPTION

JOB NO: 0233681.02
DATE: AUGUST 10, 2023
SCALE: AS SHOWN
DESIGNED BY: JC
DRAWN BY: MB
CHECKED BY: SK/KM
FILENAME: 023368102-G-000.dwg

DRAWING TITLE:
COVER SHEET

DRAWING NO:
G-000

MATCH LINE SHEET C-203



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MATCH LINE SHEET C-201



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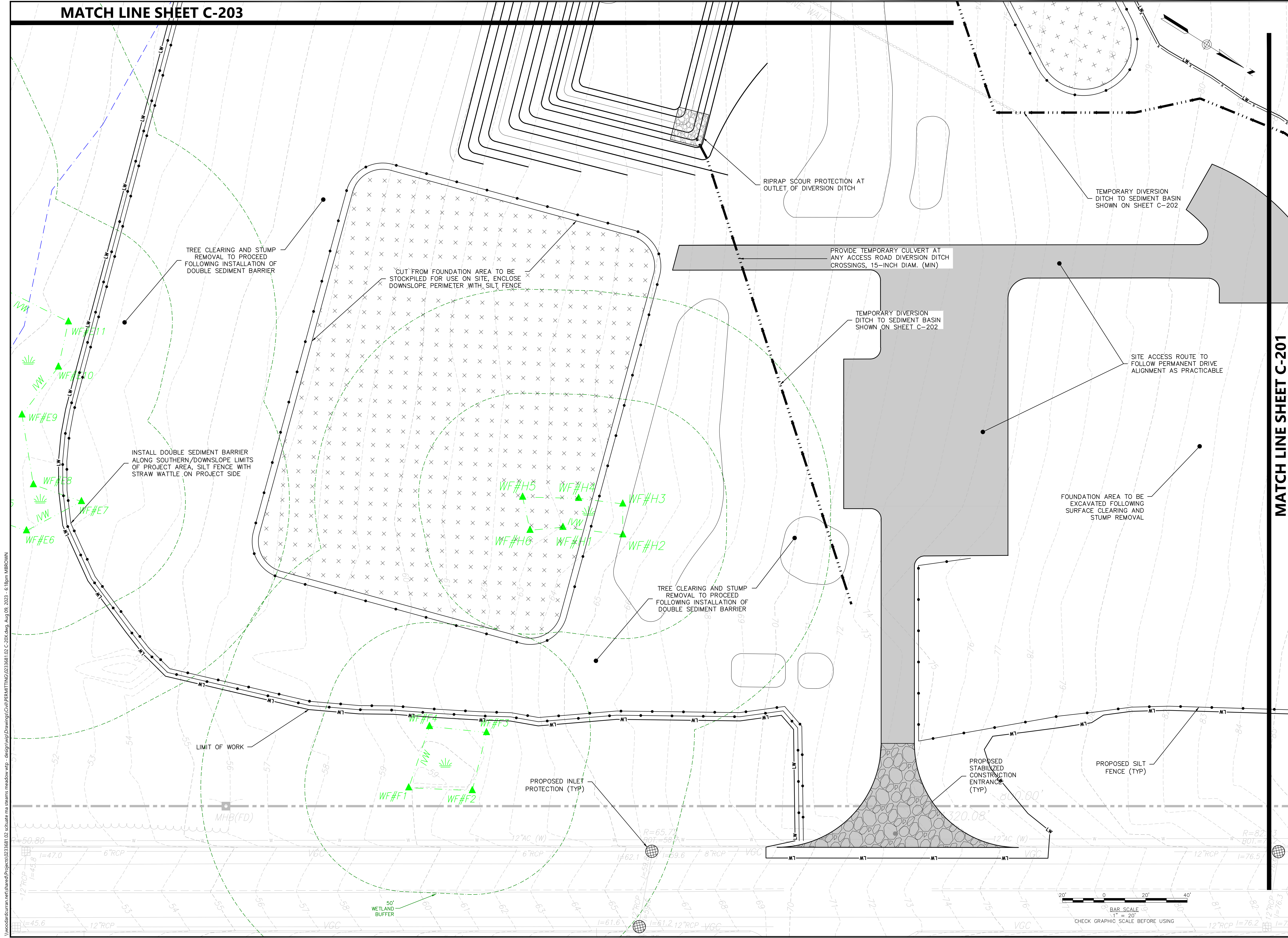
 STEARNS MEADOW
 DRINKING WATER
 TREATMENT PLANT

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 DATE: AUGUST 10, 2023
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 FILENAME: 0233681.02 C-20X.dwg

EROSION & SEDIMENT CONTROL PLAN

DRAWING NO: **C-202**

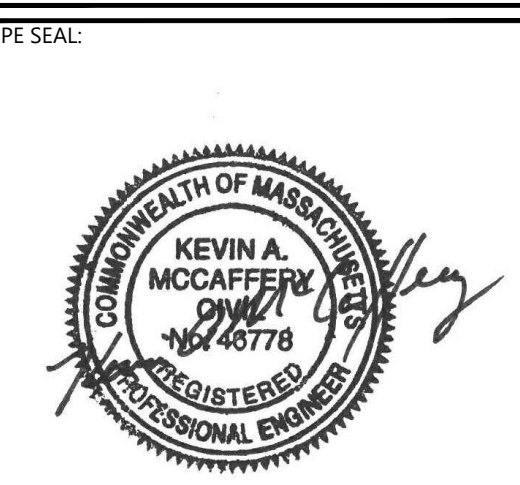


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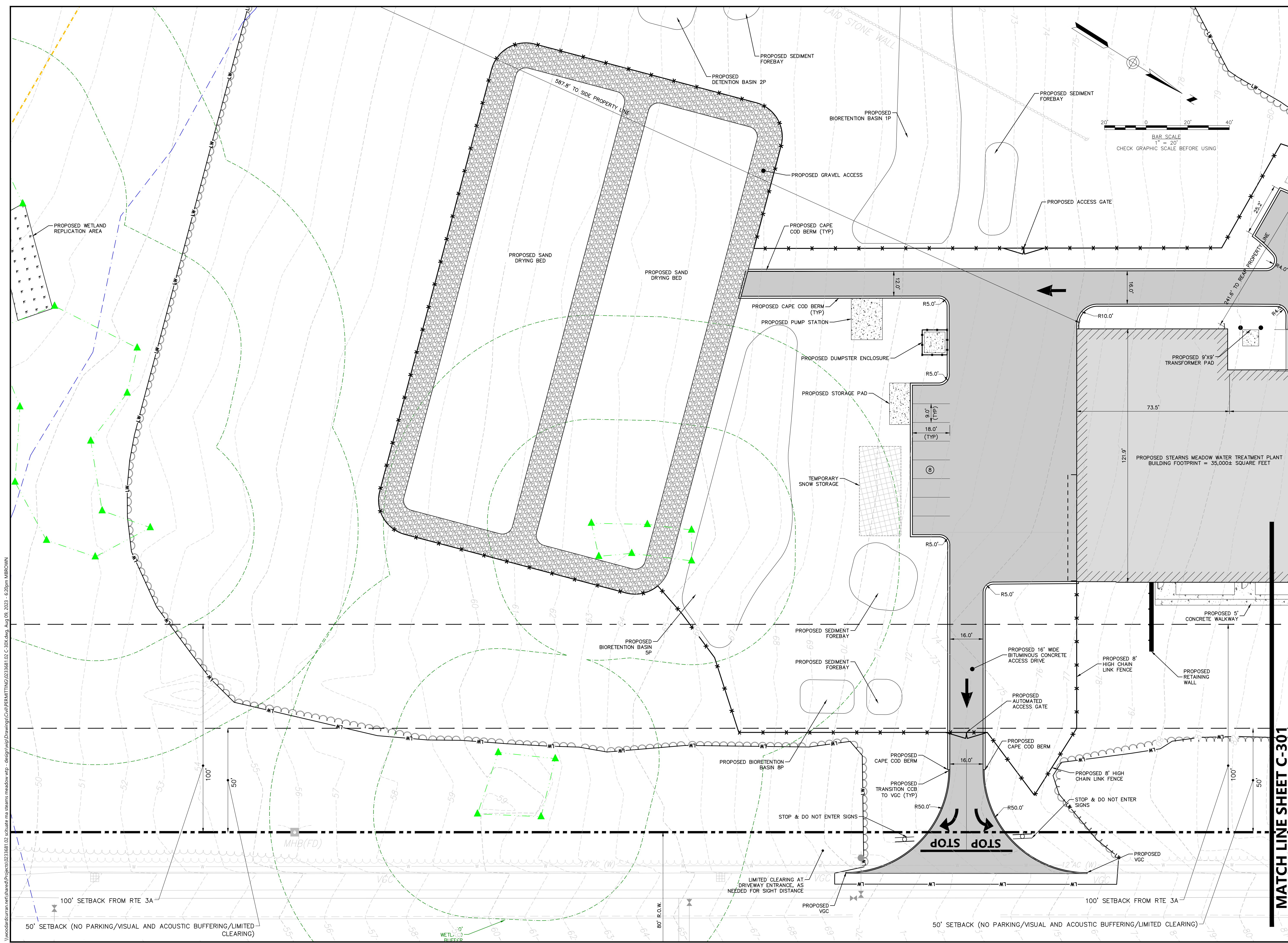
STEARNS MEADOW
DRINKING WATER
TREATMENT PLANT

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 DATE: AUGUST 10, 2023
 SCALE: AS SHOWN
 DESIGNED BY: JC
 DRAWN BY: MB
 CHECKED BY: SK
 FILENAME: 0233681.02 C-30X.dwg
 DRAWING TITLE:

SITE LAYOUT PLAN

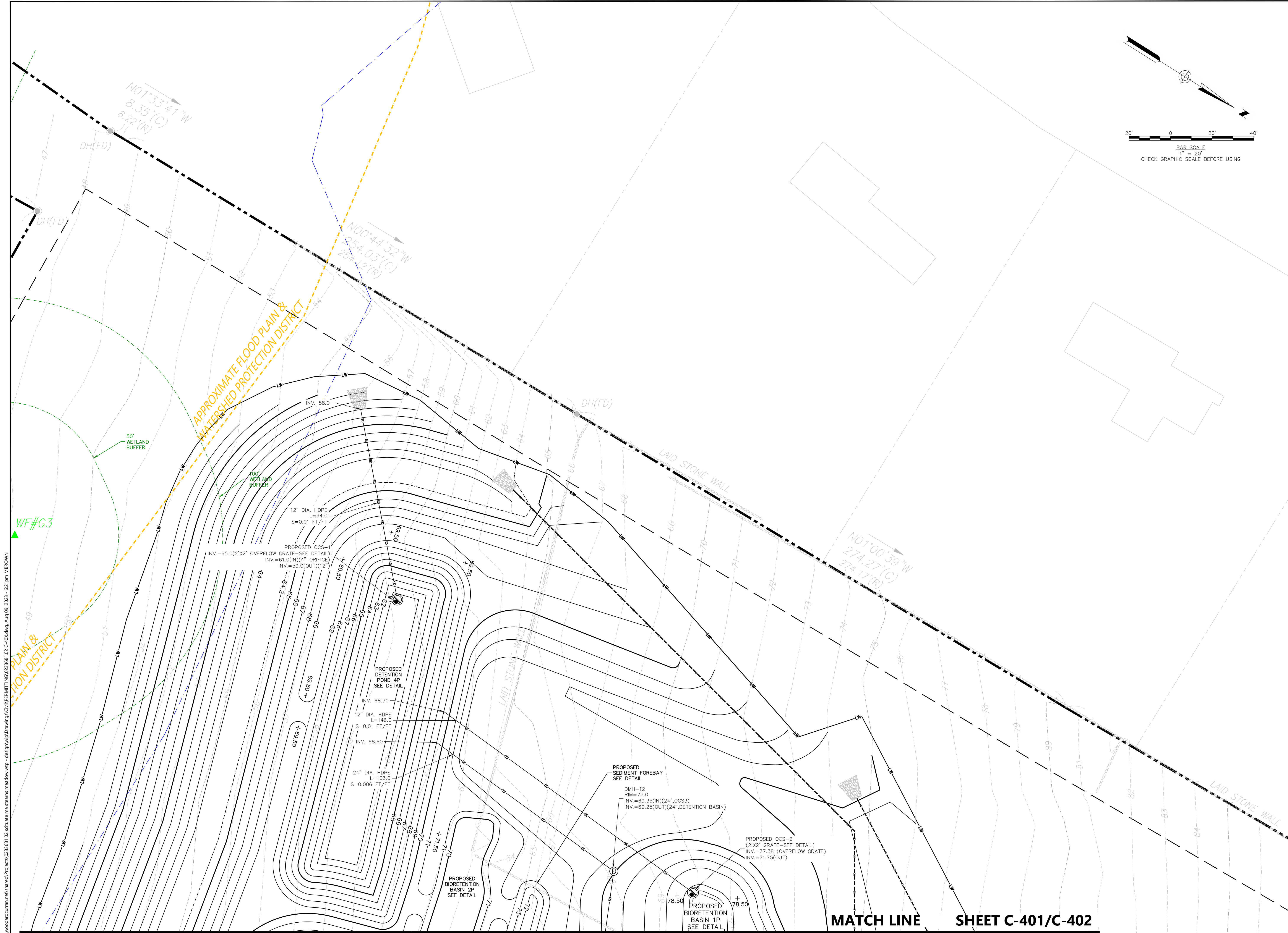
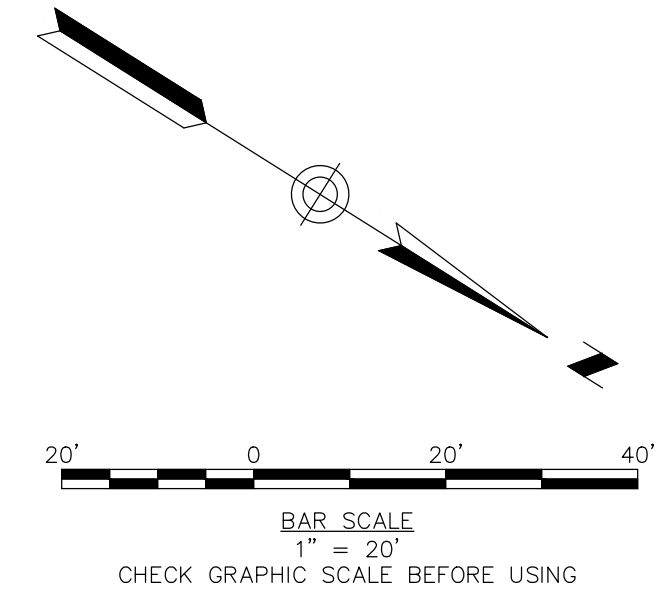
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C-302



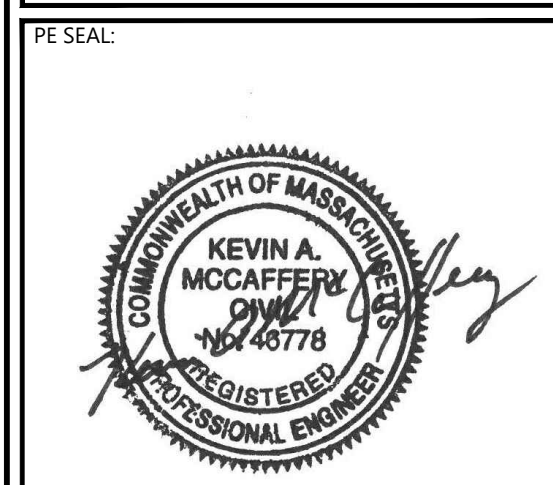
MATCH LINE SHEET C-301

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CLIENT INFO:
 TOWN OF SCITUATE,
 MASSACHUSETTS
 453 CHIEF JUSTICE
 CUSHING HIGHWAY
 STEARNS MEADOW
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 TREATMENT PLANT

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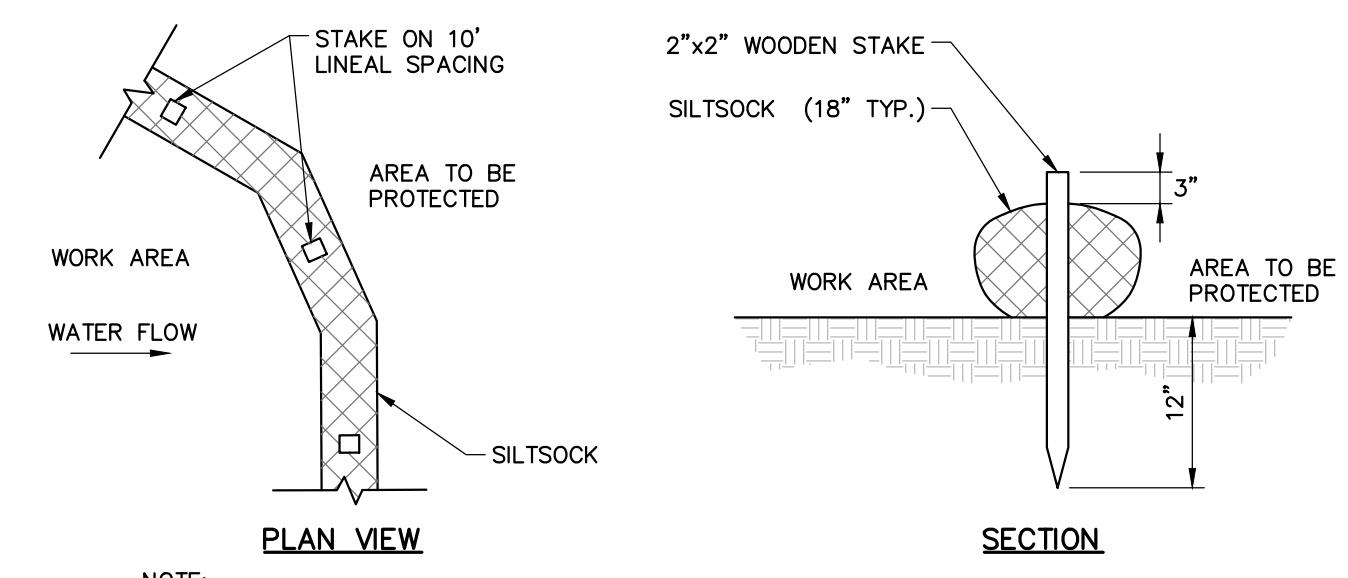
GRADING & DRAINAGE PLAN

DRAWING NO: **C-403**

MATCH LINE SHEET C-401/C-402

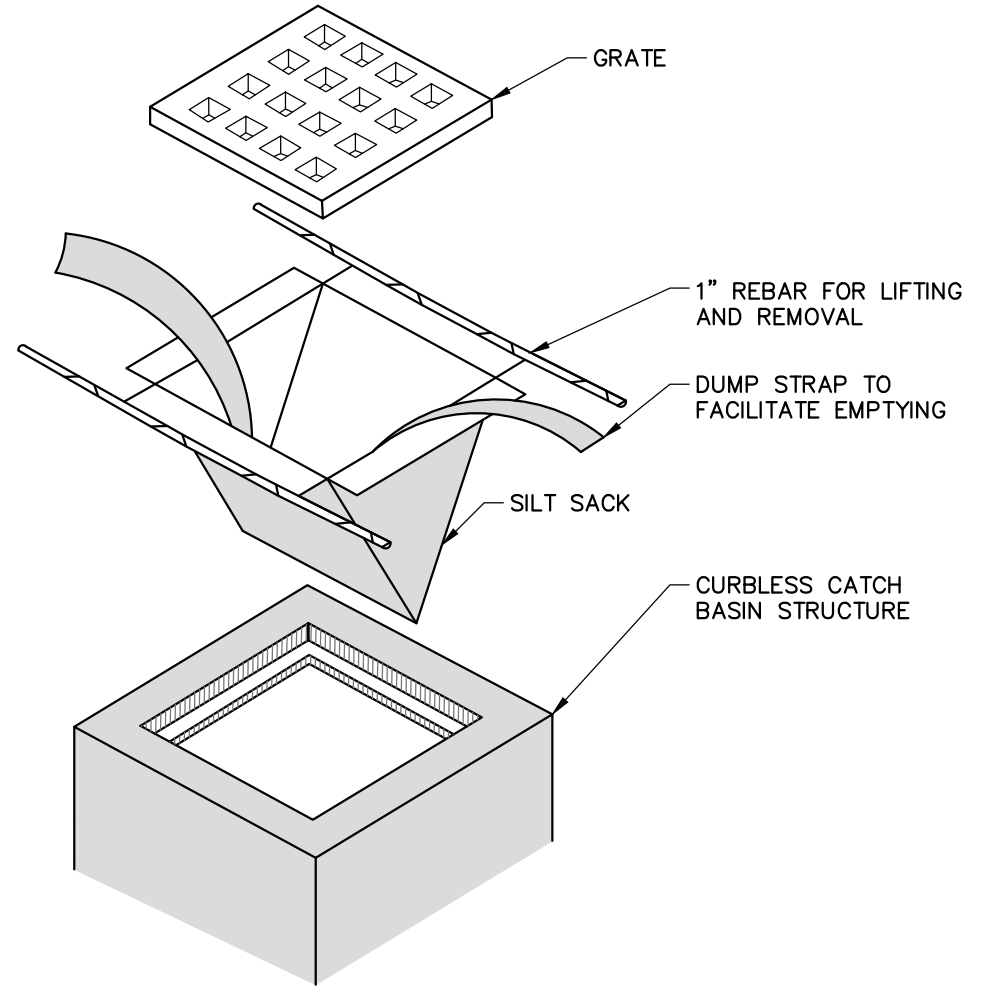


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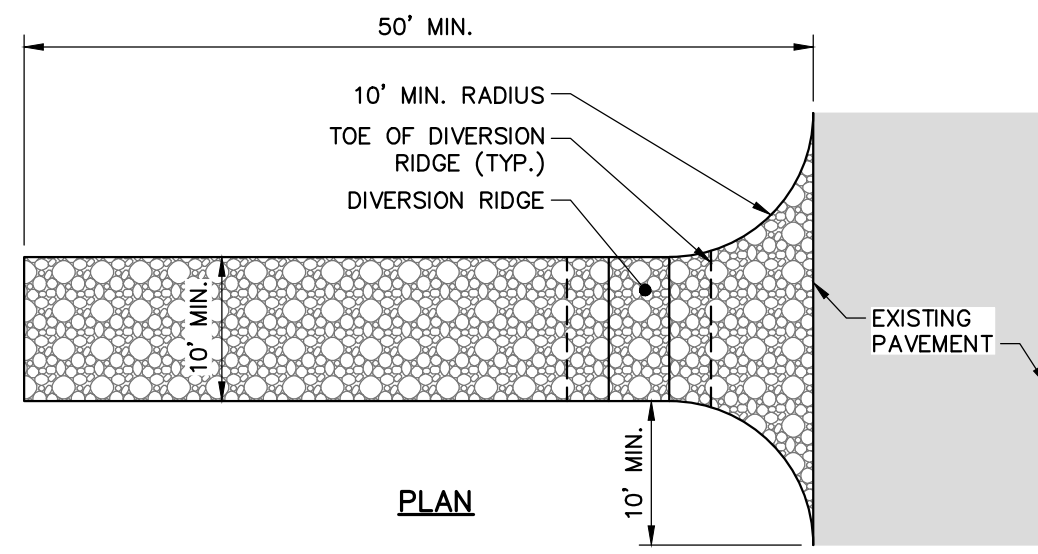
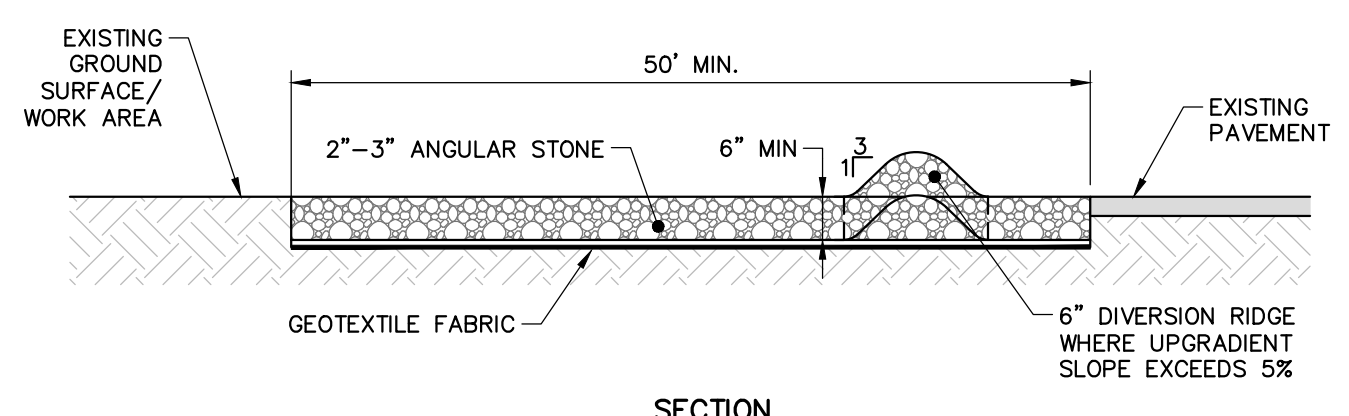
NOTE:
1. WHEN STAKING IS NOT POSSIBLE, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SEDIMENT CONTROL TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.

SEDIMENT BARRIER – SILT SOCK
NOT TO SCALE



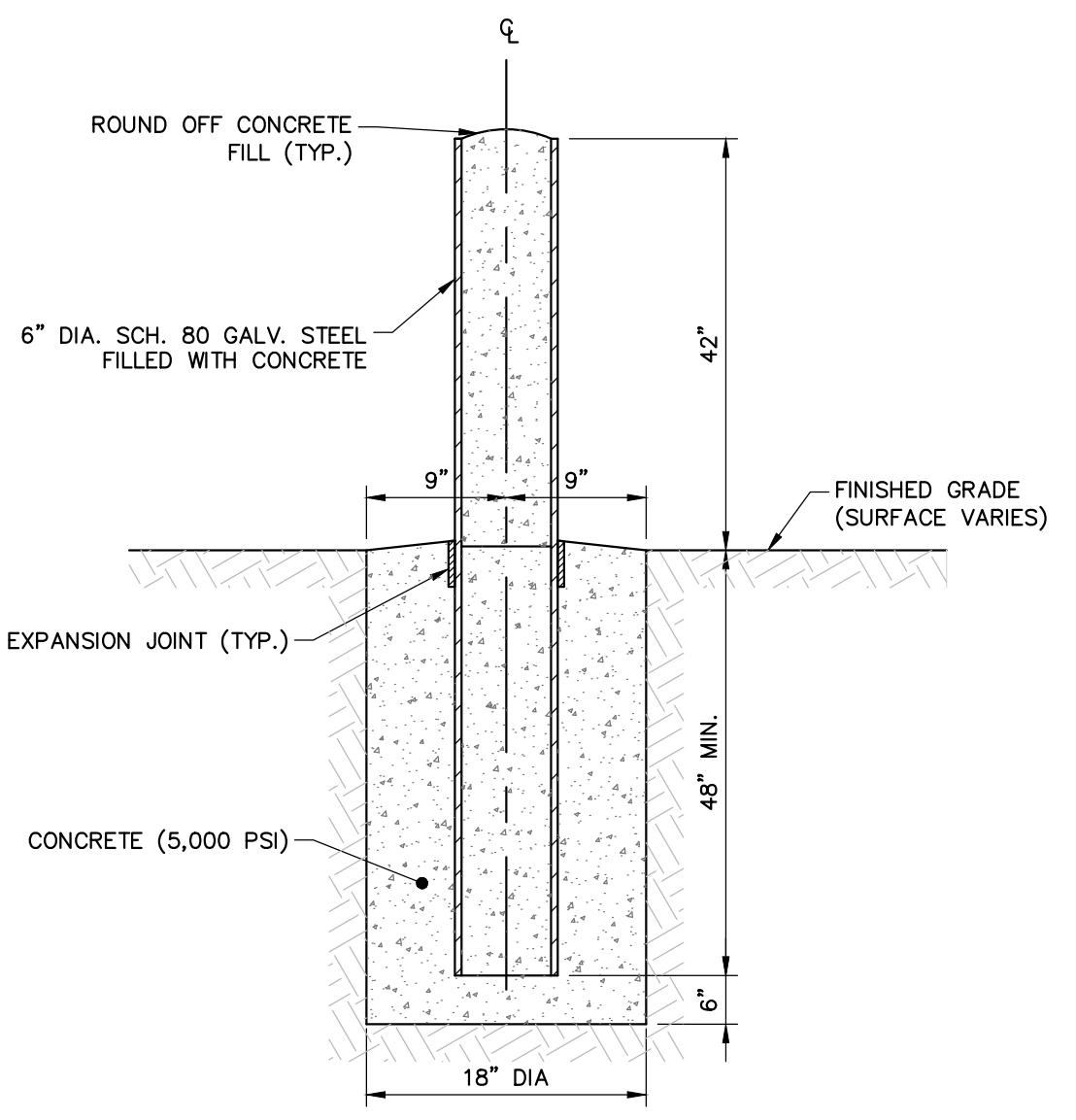
NOTES:
1. INSTALL SILTSACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
2. EMPTY OR REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, AND REPLACE AS NEEDED.
3. SILT SACKS TO BE INSTALLED WHEN THE POTENTIAL FOR SEDIMENT TO ENTER EXISTING & PROPOSED BASINS EXISTS.

SILTSACK – CURBLESS INLET
NOT TO SCALE



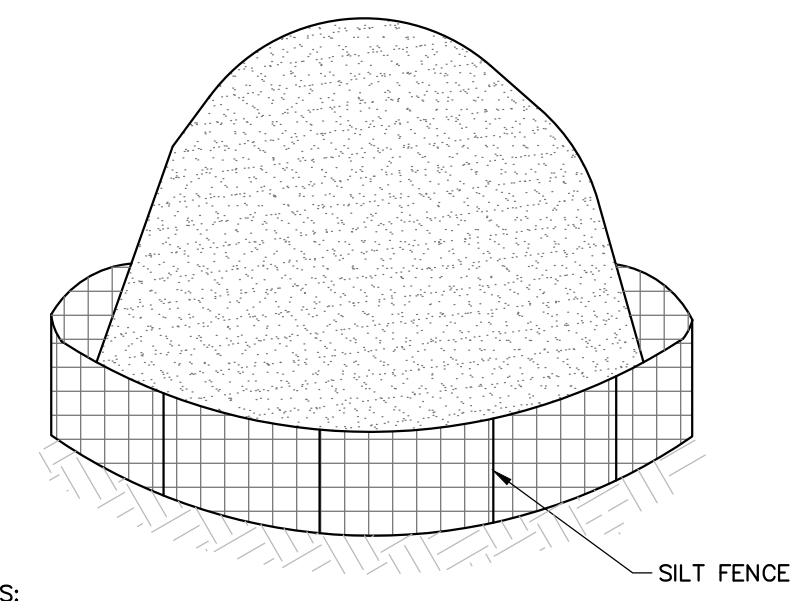
NOTES:
1. GRADE TOWARDS SEDIMENT BARRIER WHEN NECESSARY TO MANAGE FLOW.
2. INCREASE MINIMUM LENGTH TO 100' WHERE TRACKED SEDIMENTS CONTAIN LESS THAN 80% SAND OR AS NECESSARY FOR HEAVY CONSTRUCTION.

STABILIZED CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE



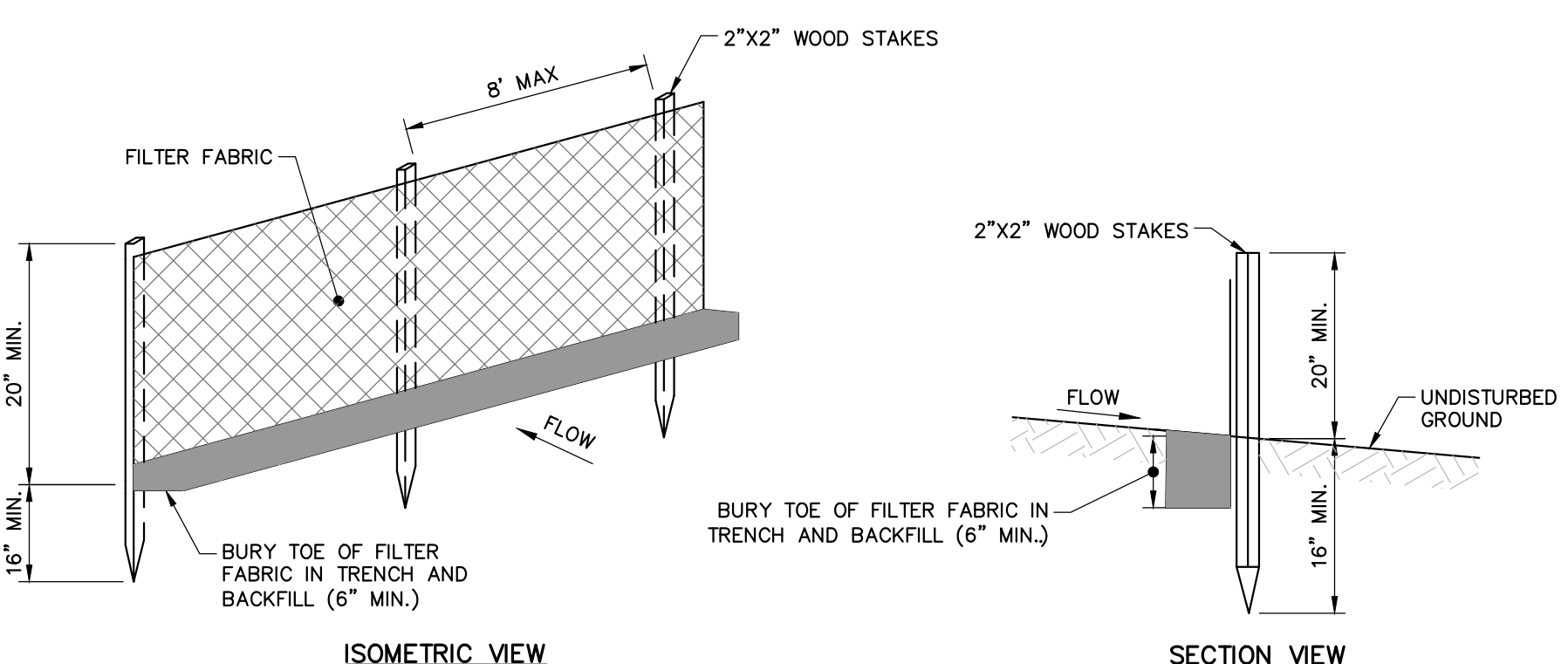
NOTE:
1. ALL BOLLARDS SHALL BE PAINTED. COLOR SELECTED BY OWNER.

6" DIA. BOLLARD
NOT TO SCALE



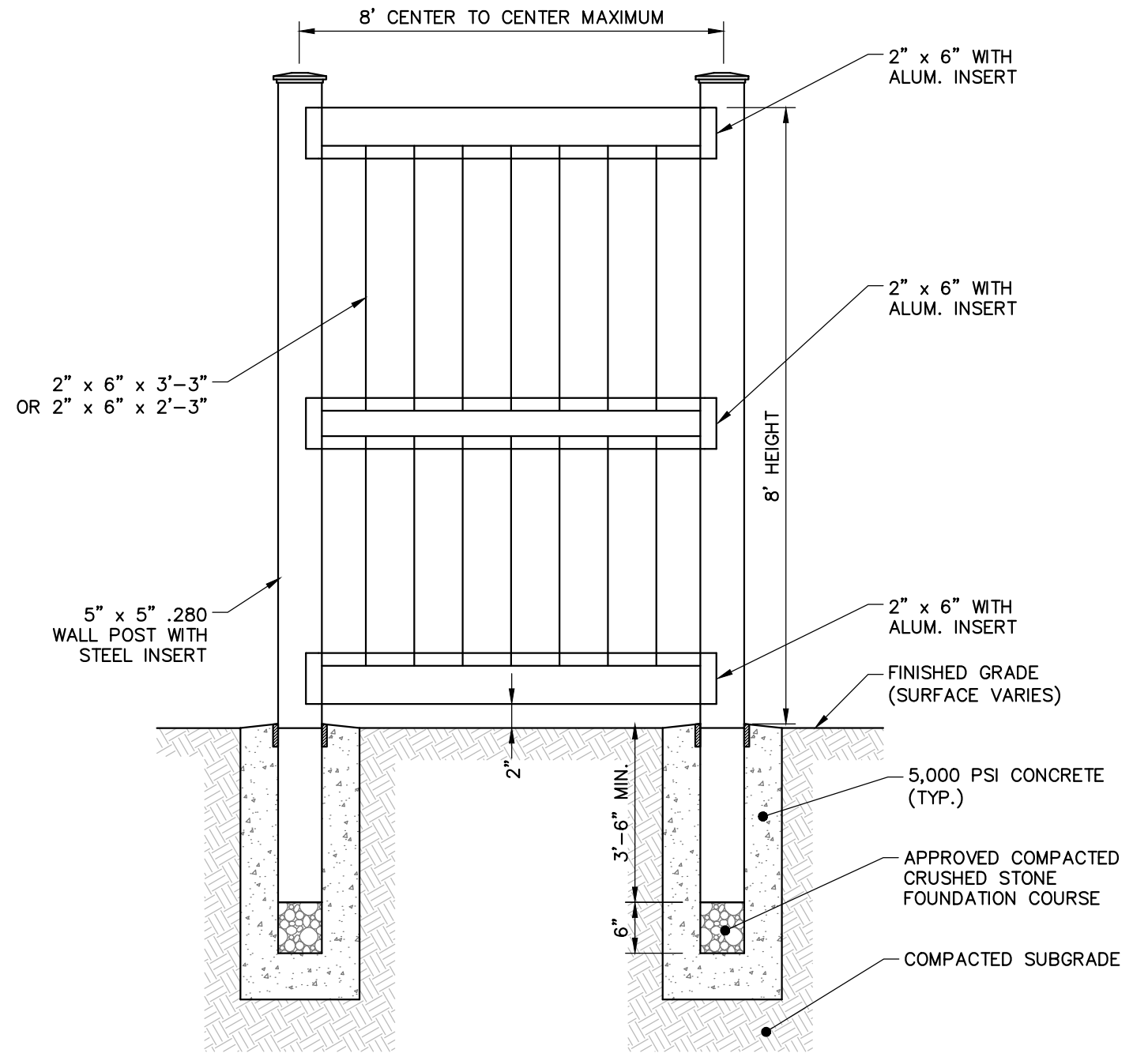
NOTES:
1. STOCKPILES SHALL BE SURROUNDED BY SILT FENCE.
2. STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
3. REPAIR OR REPLACE DAMAGED SILT FENCE DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
4. STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

TEMPORARY SOIL STOCKPILE
NOT TO SCALE



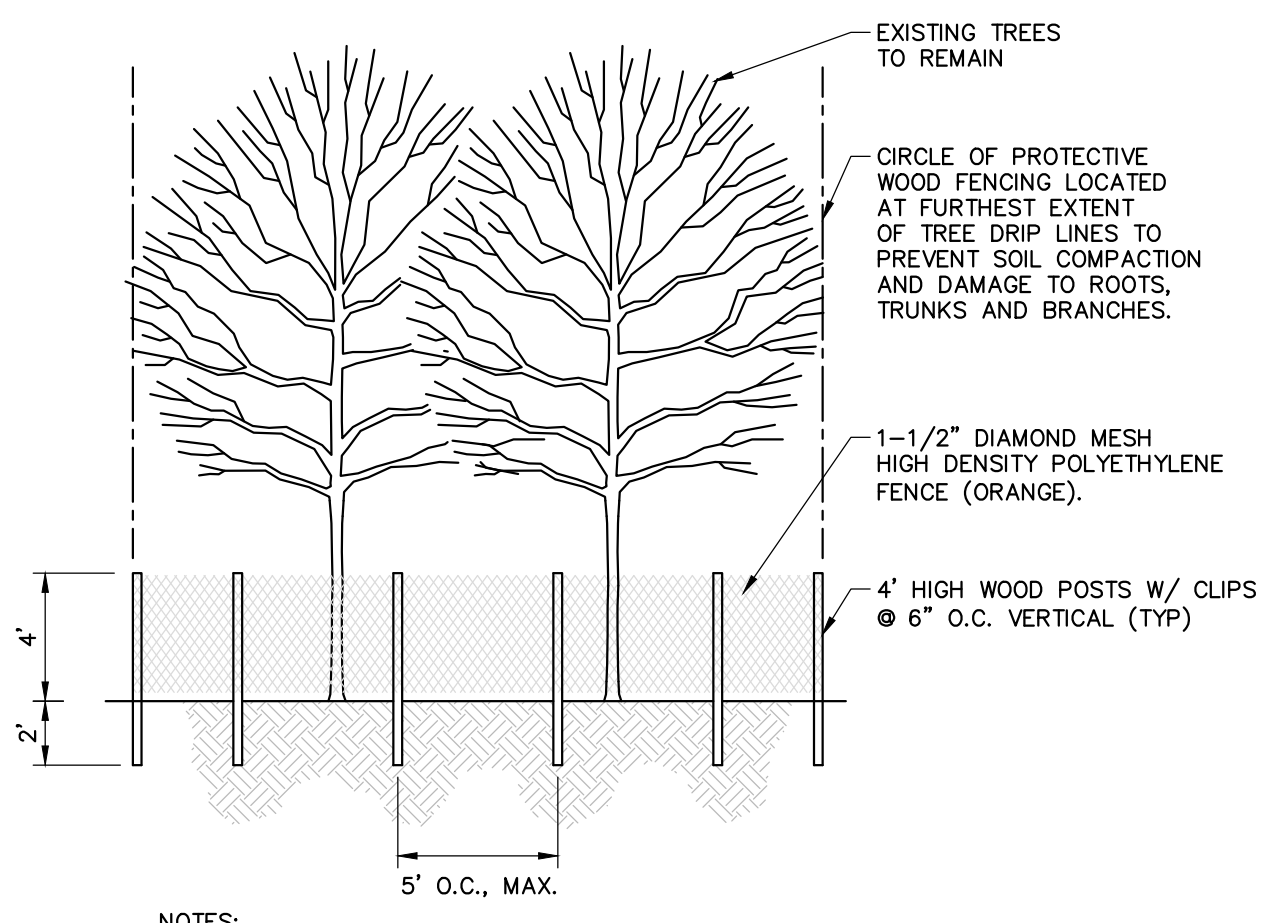
NOTES:
1. INSTALL FABRIC ON UPHILL SIDE OF WOOD STAKES.
2. SPACING BETWEEN WOOD STAKES PER MANUFACTURER'S RECOMMENDATION.
3. SILT FENCE WILL NOT BE USED IN DRAINAGE WAYS.
4. MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR MORE.
5. REMOVAL: WHEN UPSLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

SEDIMENT BARRIER – SILT FENCE
NOT TO SCALE



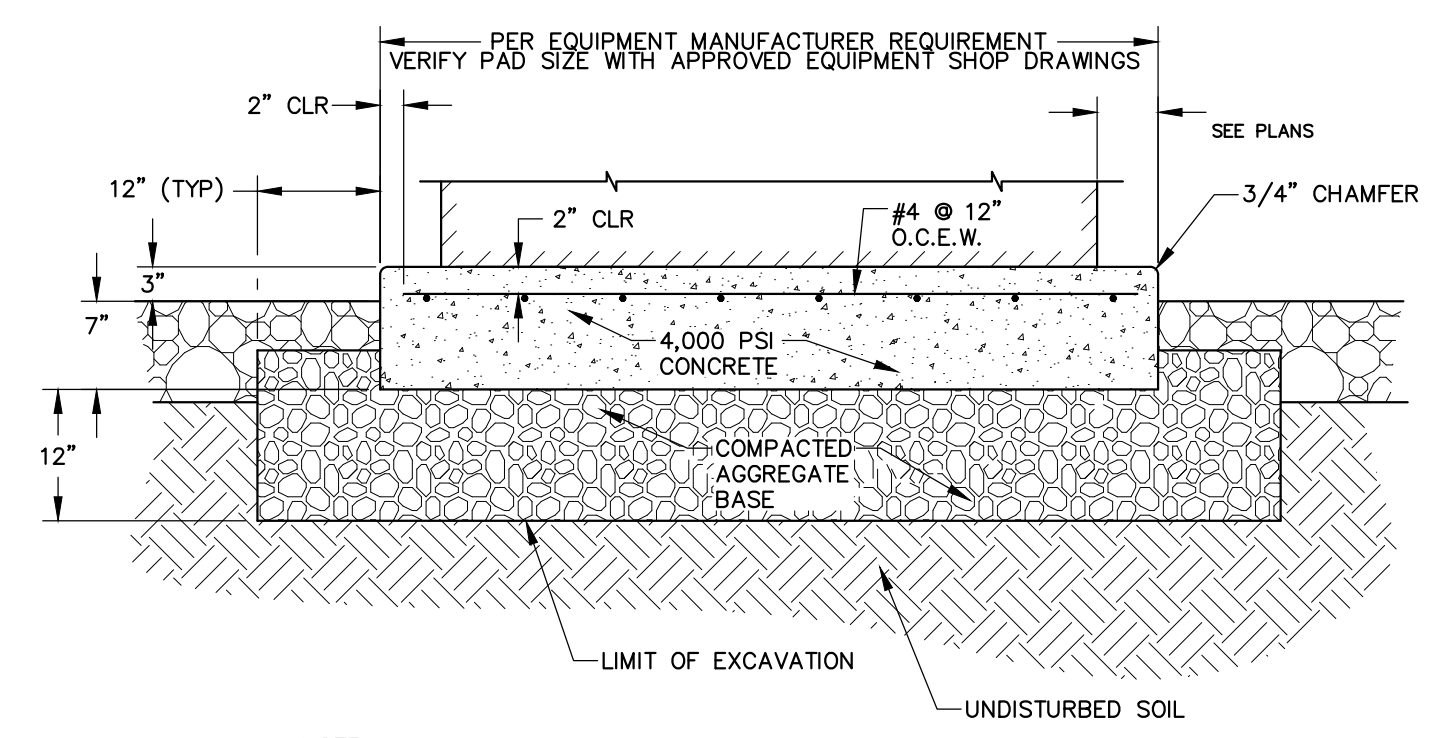
NOTE:
1. FENCE TO BE PLACED AROUND DUMPSTER PAD TO PROVIDE ADEQUATE SCREENING OF TRASH CONTAINERS. SEE PLANS FOR LOCATION.

PVC PRIVACY FENCE FOR DUMPSTER ENCLOSURE
NOT TO SCALE



NOTES:
1. LOCATE FENCING AS SHOWN ON PLANS.
2. NO MATERIAL OR EQUIPMENT SHALL BE STORED OR STOCKPILED WITHIN THE AREA SURROUNDED BY TREE PROTECTION FENCING.
3. FENCE MUST REMAIN AND BE MAINTAINED THROUGHOUT ENTIRE BUILDING PHASES DURING WHICH CONSTRUCTION MAY AFFECT TREES.

TREE PROTECTION
NOT TO SCALE



NOTE:
1. PAD REQUIREMENTS TO BE COORDINATED WITH UTILITY OWNER AND OR EQUIPMENT MANUFACTURER.

UTILITY PAD DETAIL
NOT TO SCALE



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MASSACHUSETTS
453 CHIEF JUSTICE
CUSHING HIGHWAY

STEARNS MEADOW
DRINKING WATER
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION

JOB NO: 0233681.02
DATE: AUGUST 10, 2023
SCALE: AS SHOWN
DESIGNED BY: JC
DRAWN BY: MB
CHECKED BY: SK
FILENAME: 0233681.02 C-90X.dwg

DRAWING TITLE:

CIVIL DETAILS 1

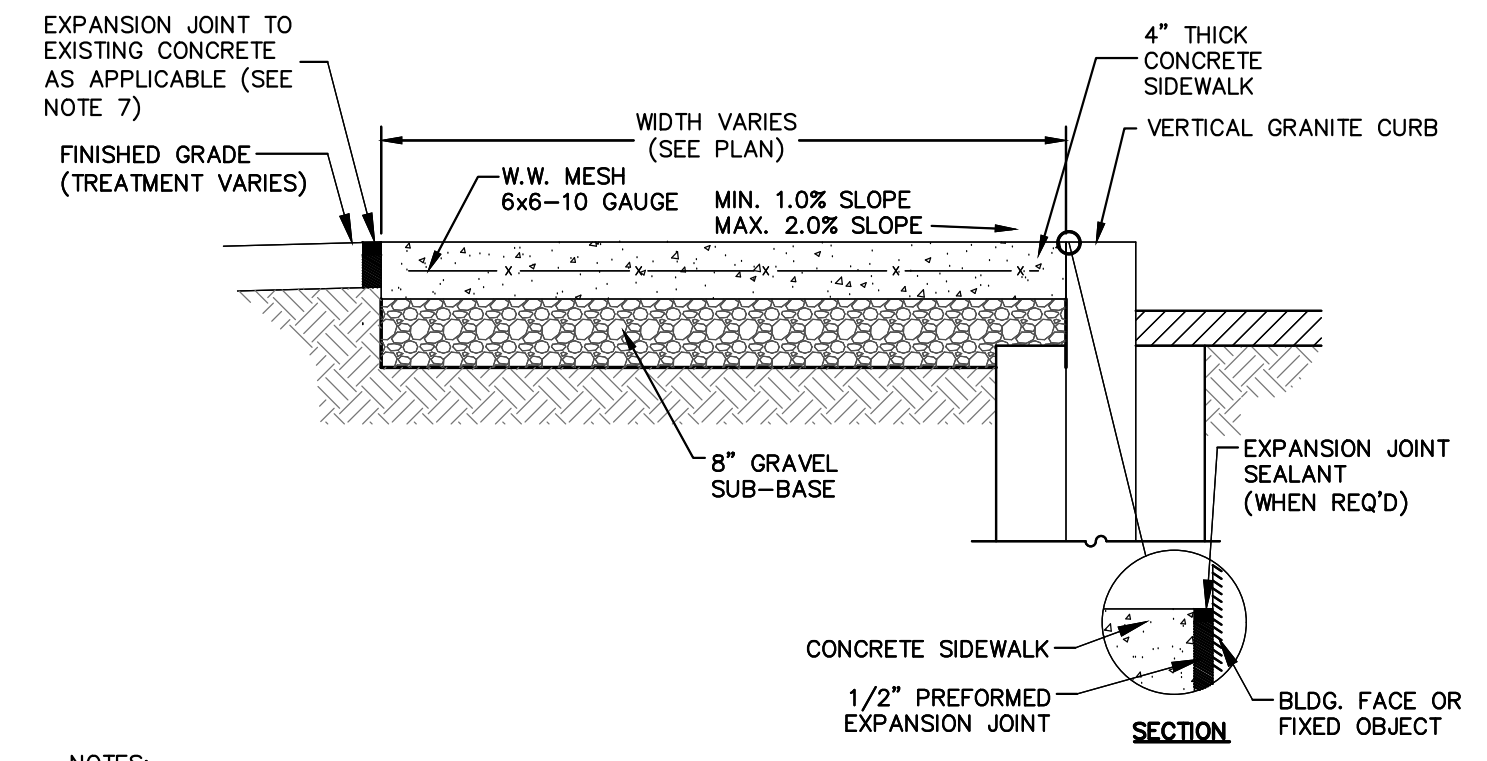
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C-900

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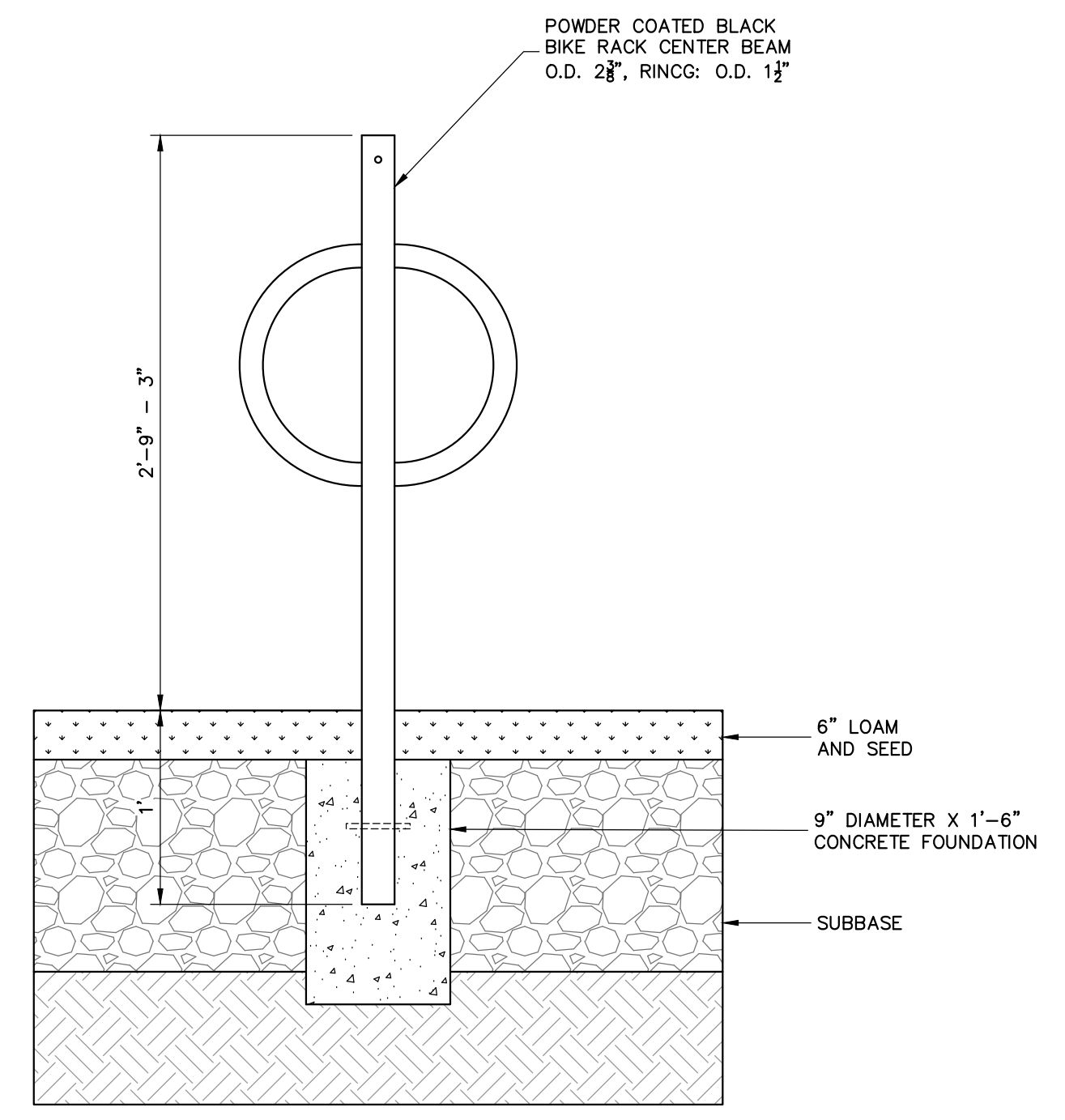
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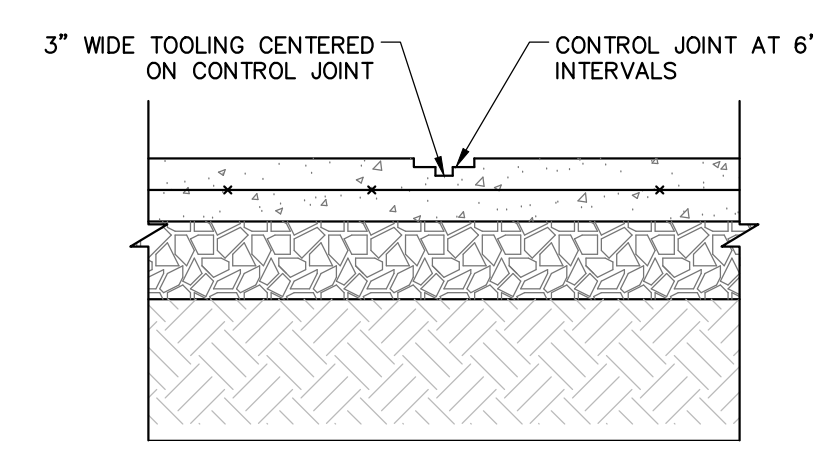
- NOTES:**
1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-MOLDED JOINT FILLER.
 2. PROVIDE CONTROL JOINTS AT 6' O.C.
 3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
 4. CEMENT CONCRETE SHALL BE 4000 PSI-TYPE II.
 5. EXISTING GRAVEL SUB-BASE TO REMAIN IN AREAS WHERE NO TRENCHING IS PROPOSED.
 6. SEE ROADWAY/SIDEWALK RECONSTRUCTION DETAIL FOR GRAVEL APPLICATION IN AREAS OF PROPOSED TRENCHING.
 7. EXPANSION JOINT NOT REQUIRED WHERE SIDEWALK ABUTS NON-PAVED AREAS (SEE PLANS FOR LOCATIONS).

TYPICAL CEMENT CONCRETE SIDEWALK DETAIL
NOT TO SCALE

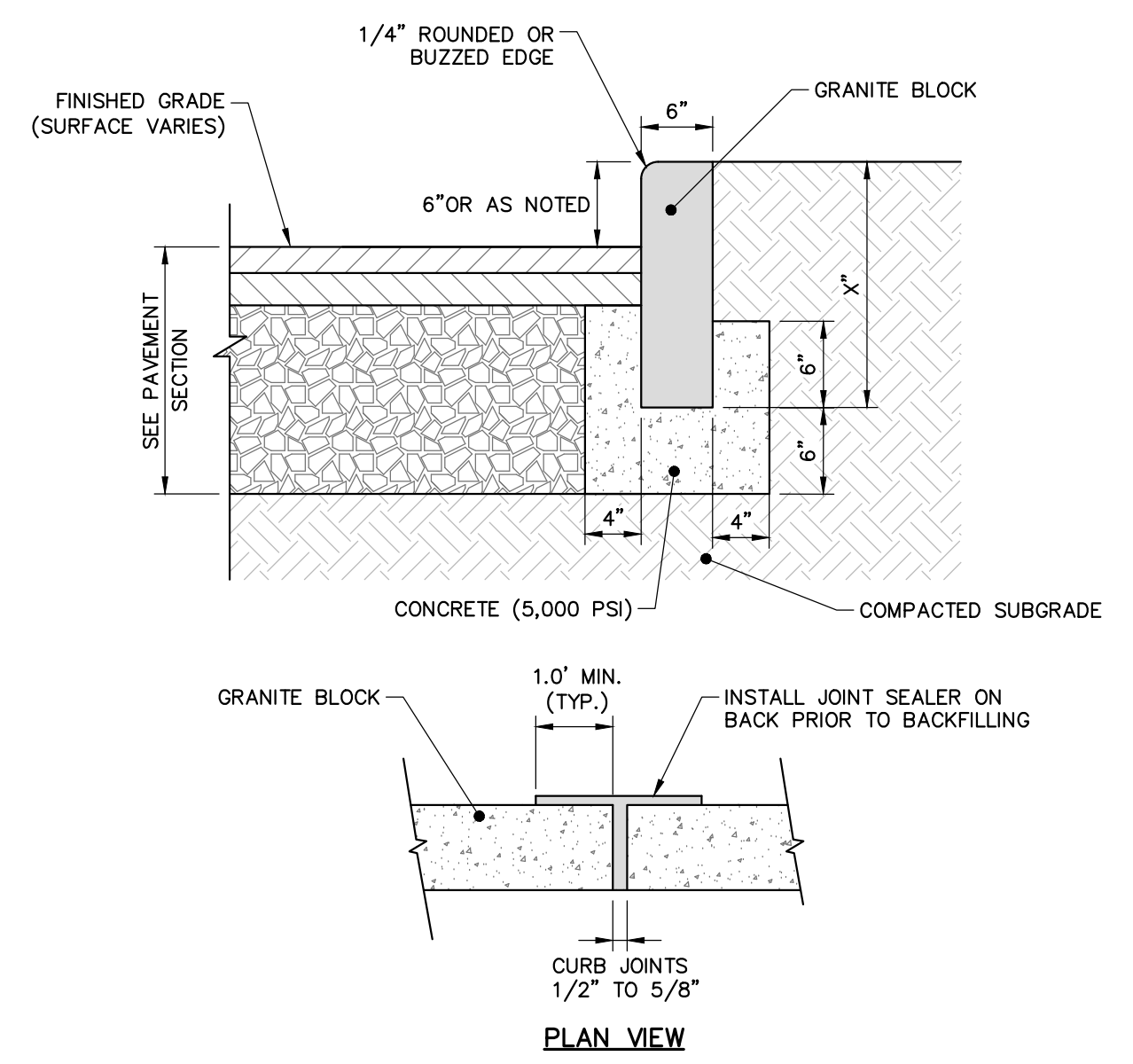


- NOTES:**
1. TWO (2) BICYCLE PARKING SPACE ARE BEING PROVIDED PER THE TOWN OF SCITUATE REGULATIONS. SEE PLANS FOR BICYCLE PARKING SPACES.

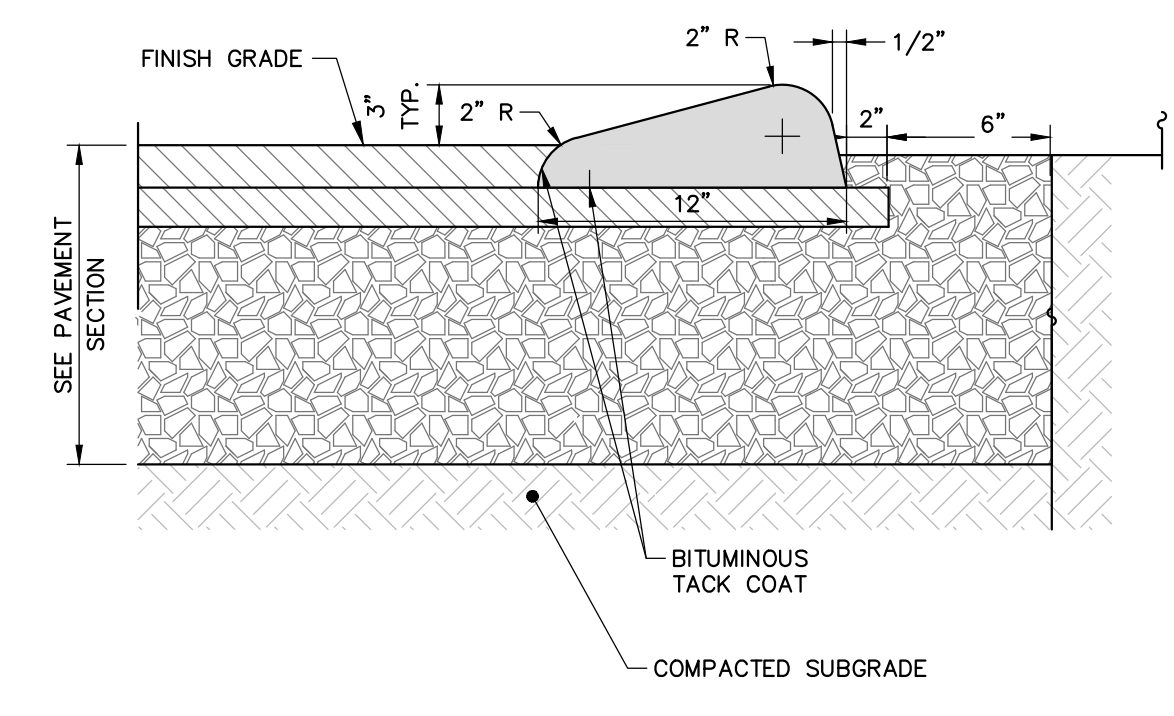
BICYCLE PARKING SPACES
NOT TO SCALE



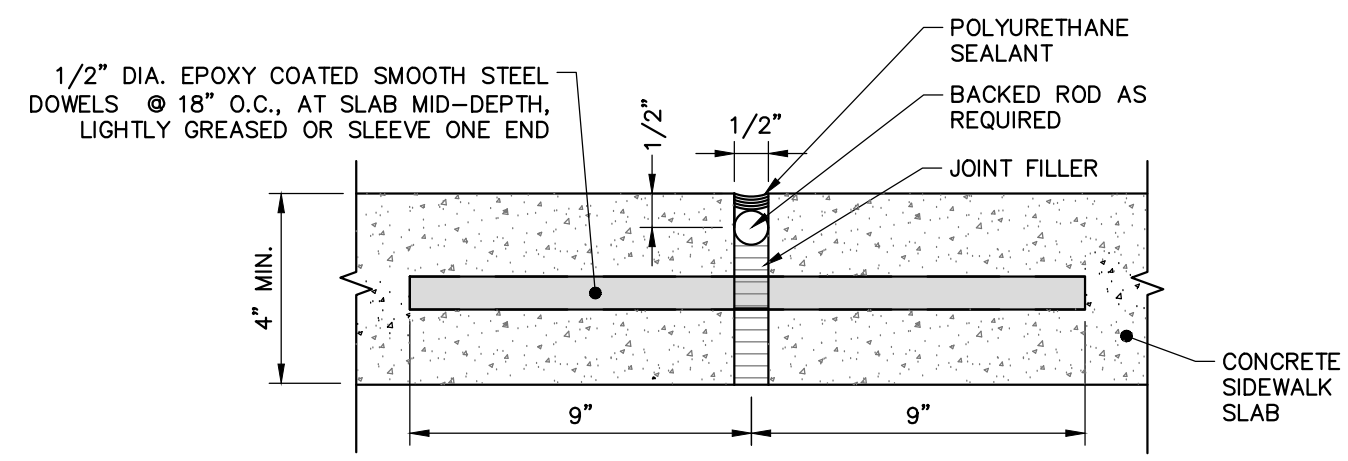
SIDEWALK CONTROL JOINT
NOT TO SCALE



VERTICAL GRANITE CURB
NOT TO SCALE

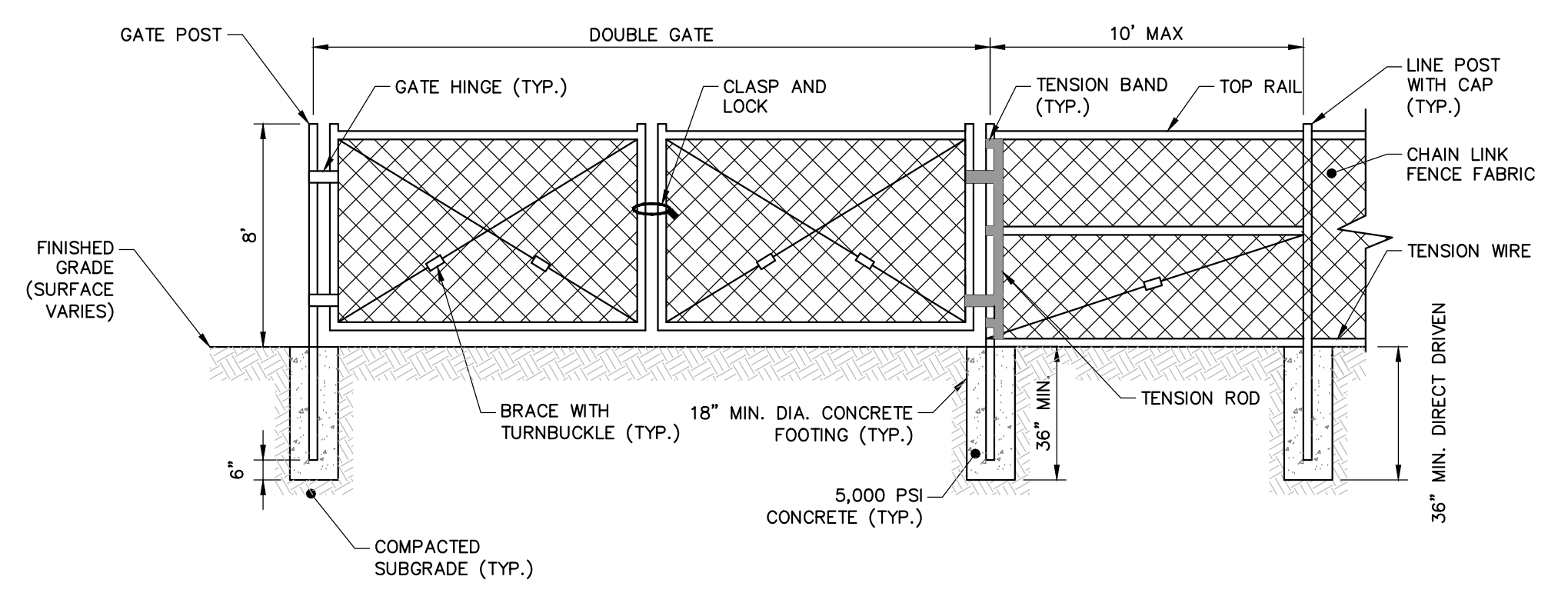


BITUMINOUS CAPE COD BERM
NOT TO SCALE



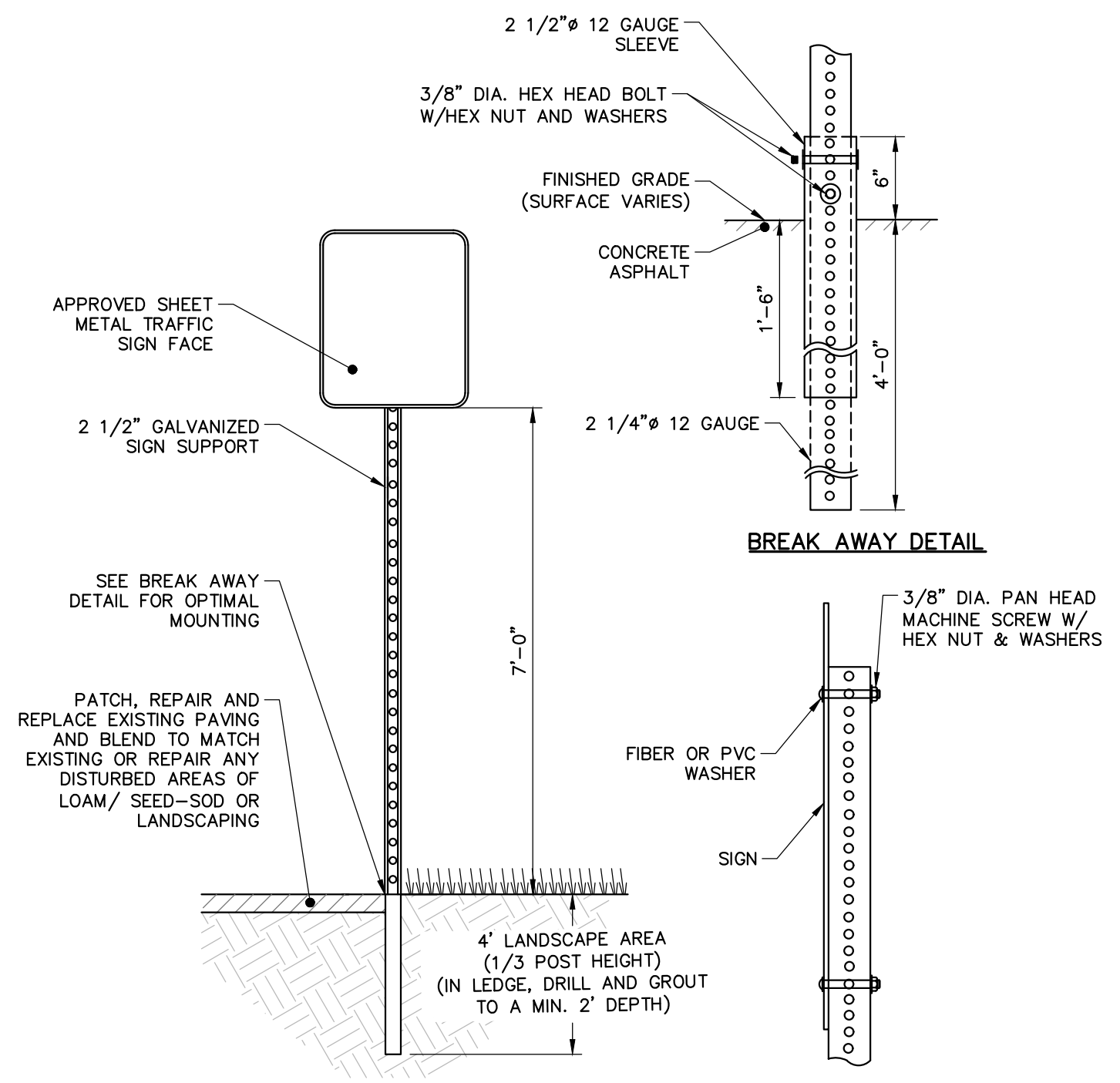
- NOTES:**
1. EXPANSION JOINTS SHALL BE 30' O.C.
 2. DISCONTINUE REINFORCING AT EACH SIDE OF JOINT.
 3. DOWELS SHALL BE CUT STRAIGHT AND DEBURRED.

CONCRETE SIDEWALK EXPANSION JOINT
NOT TO SCALE



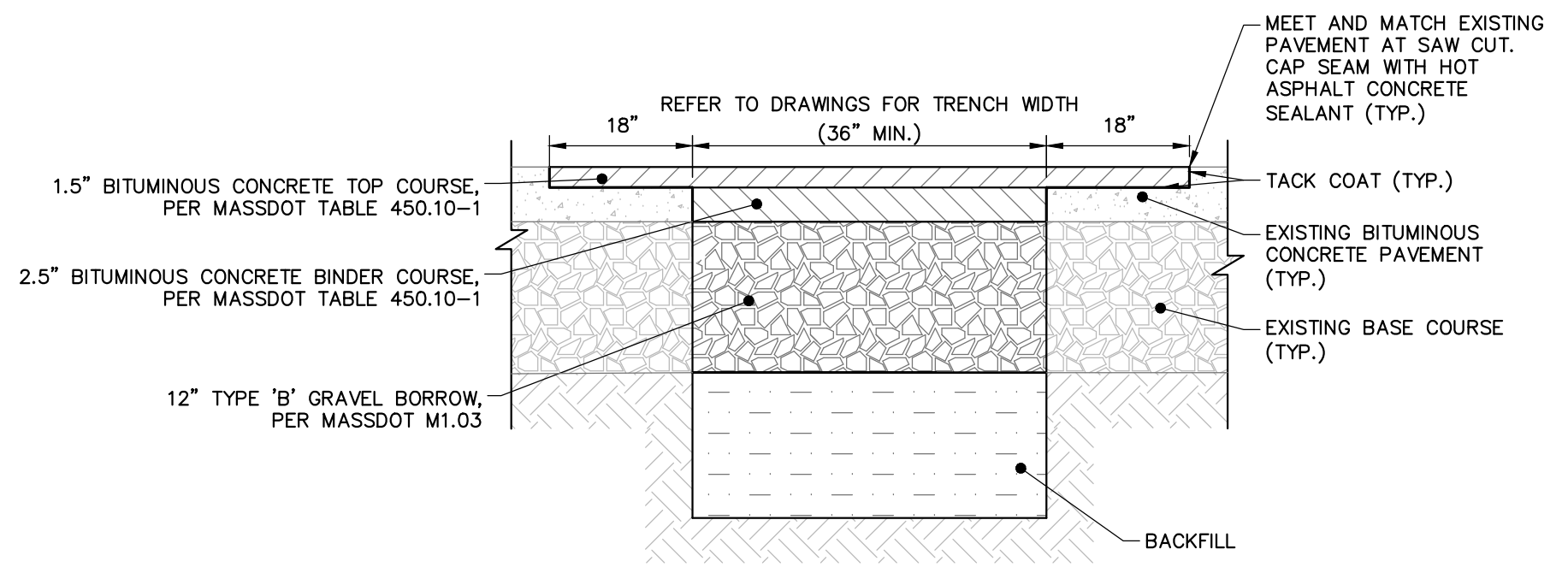
- NOTES:**
1. ALL FENCING AND HARDWARE TO BE LIST MATERIAL.
 2. INSTALL ALL FENCING AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

CHAIN LINK FENCE AND GATE
NOT TO SCALE

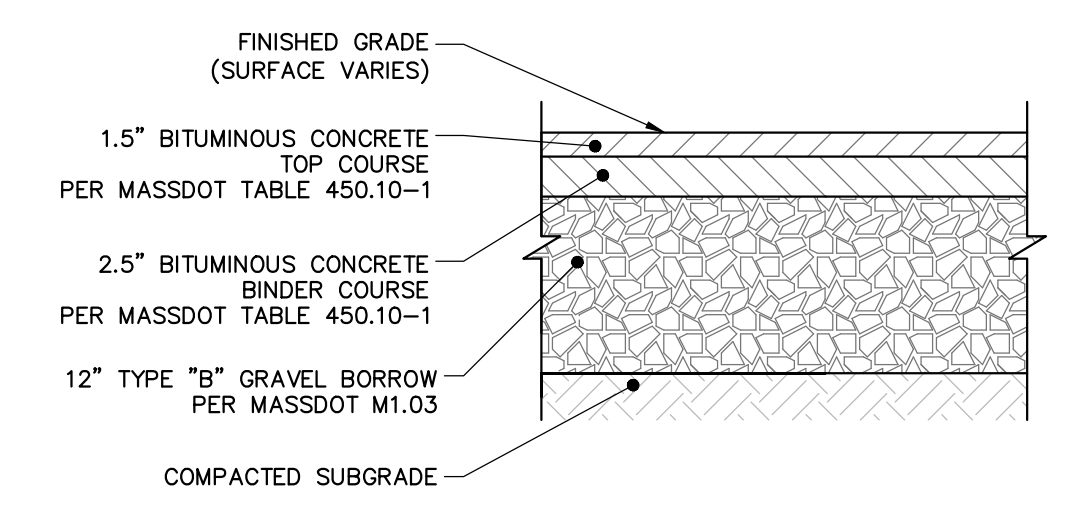


- NOTES:**
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
 2. FOR USE WITH MUTCD "STOP" AND "DO NOT ENTER" SIGNS.

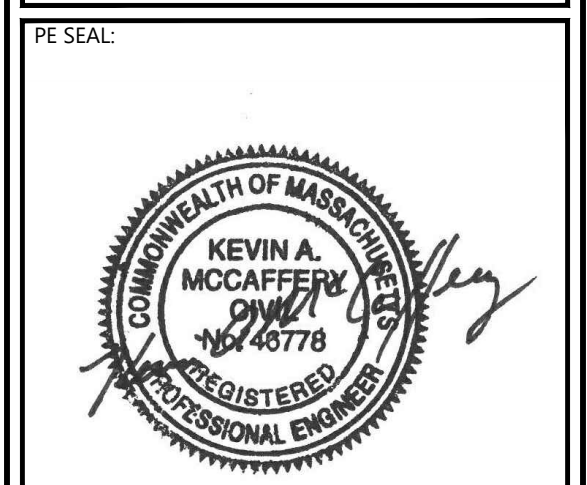
TRAFFIC SIGN POST
NOT TO SCALE



PERMANENT TRENCH REPAIR FOR PUBLIC ROADS
NOT TO SCALE



BITUMINOUS CONCRETE PAVEMENT SECTION
NOT TO SCALE



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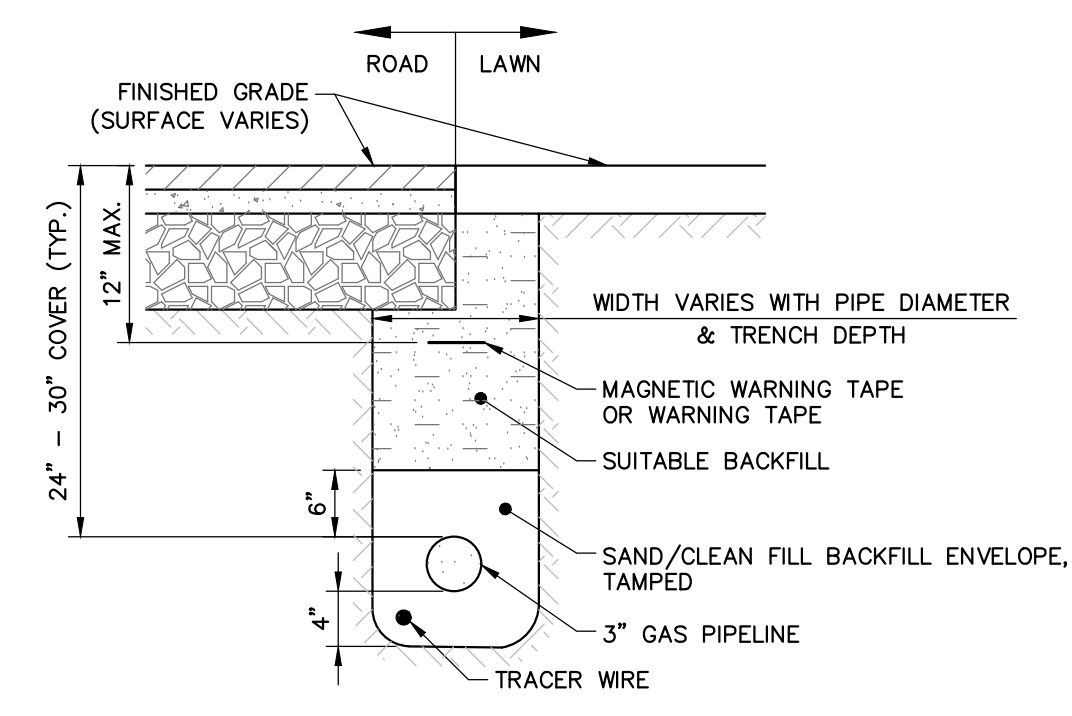
CIVIL DETAILS 2

DRAWING NO:
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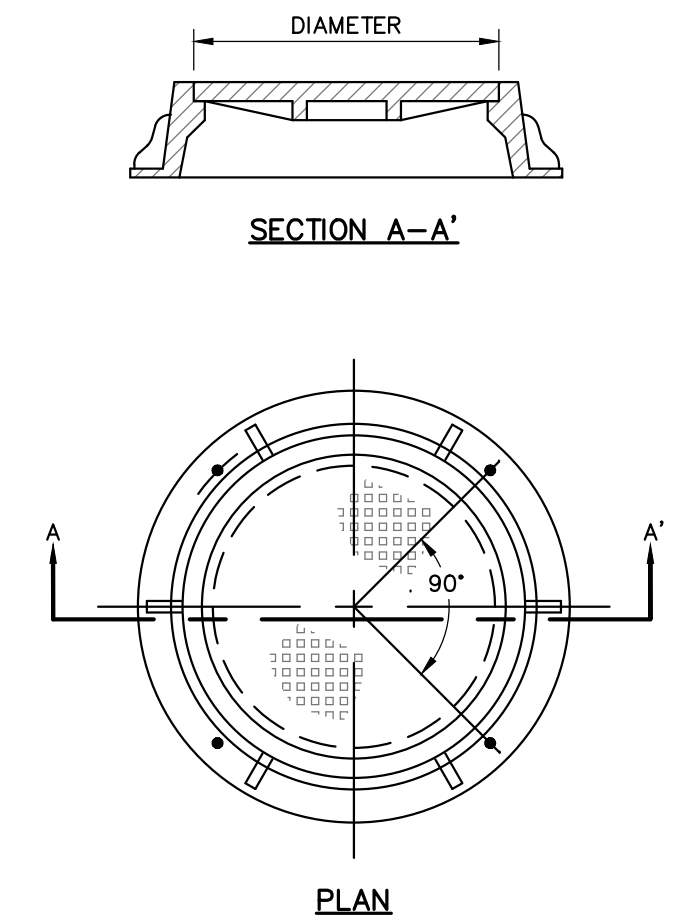
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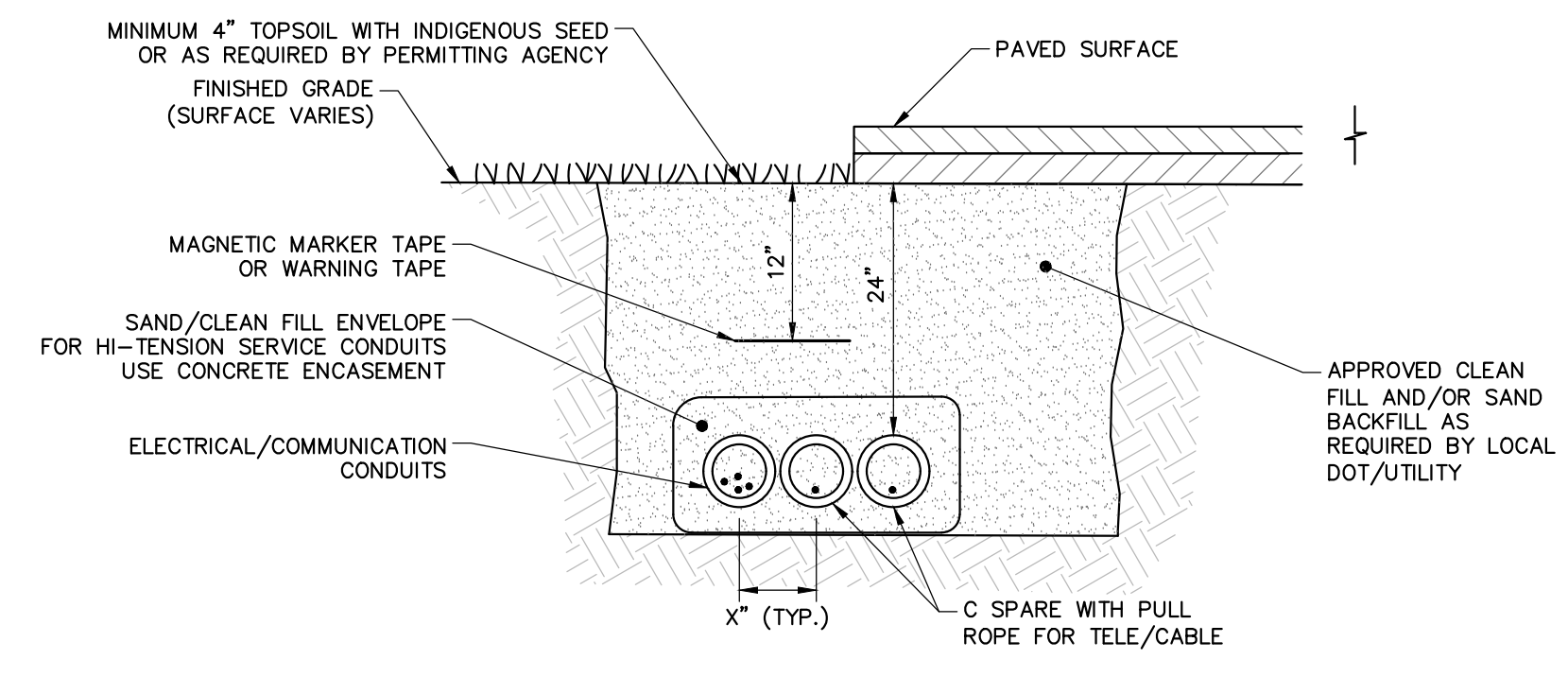
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GAS PIPE TRENCH
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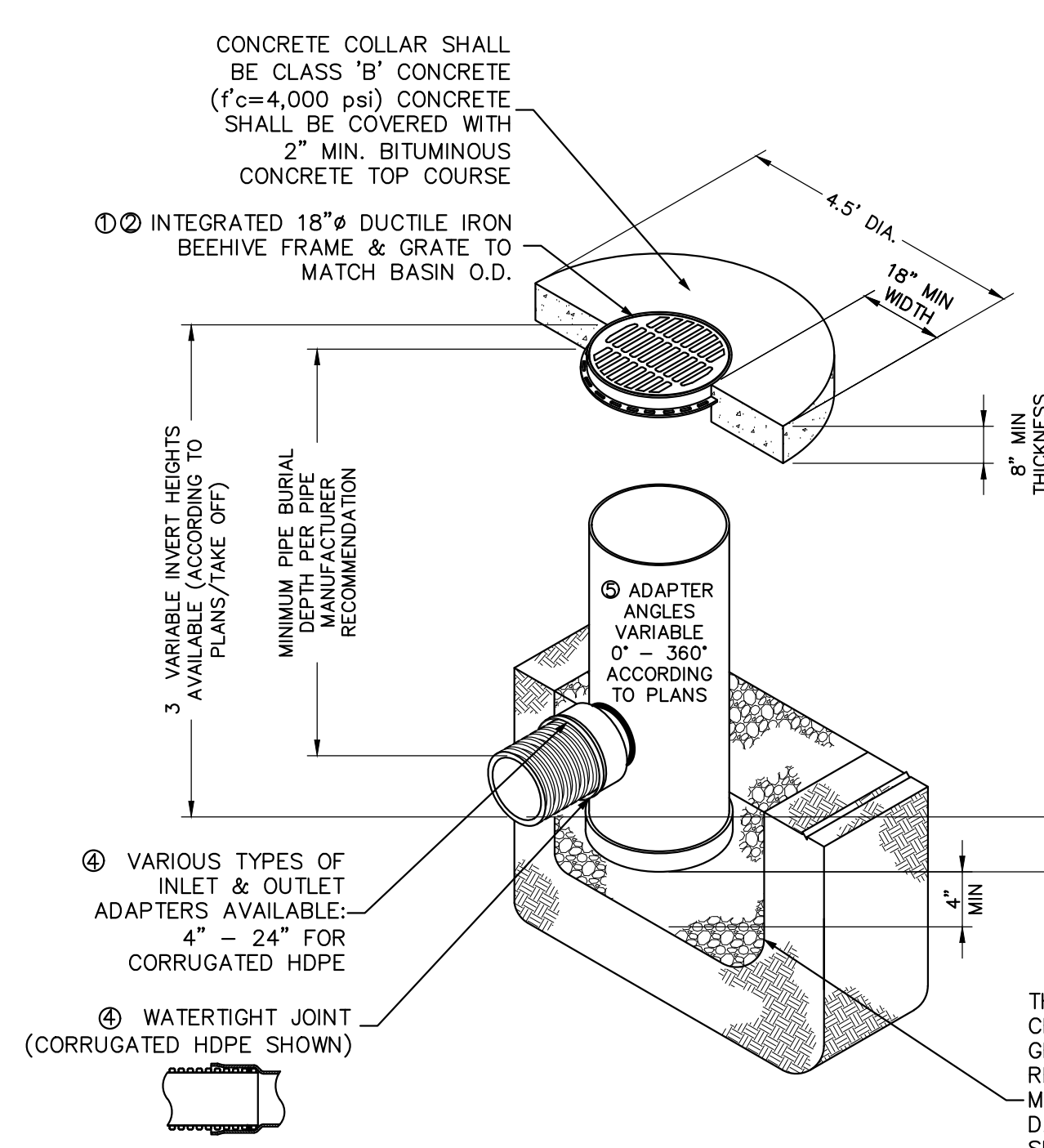


MANHOLE FRAME AND COVER
NOT TO SCALE



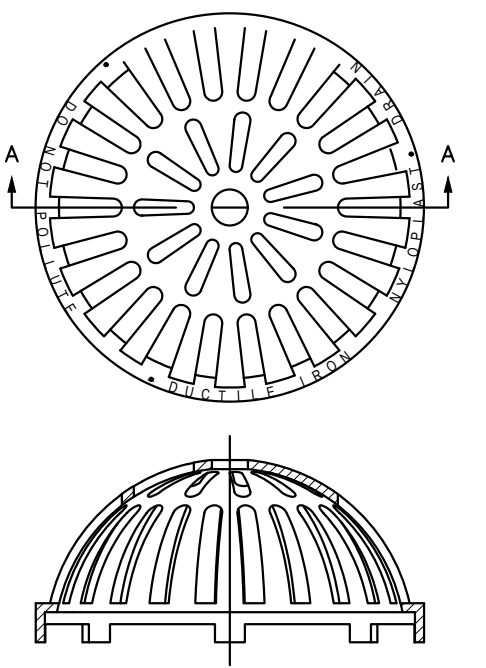
- NOTES:**
1. MAINTAIN 18" CLEAR BETWEEN ELECTRICAL/COMMUNICATION CONDUITS AND GAS PIPING.
 2. EXCAVATE, REMOVE ROCK, BACKFILL, SEED AND RESTORE GRASS OR PAVEMENT TO ORIGINAL CONDITIONS.

ELECTRIC AND COMMUNICATIONS TRENCH
NOT TO SCALE

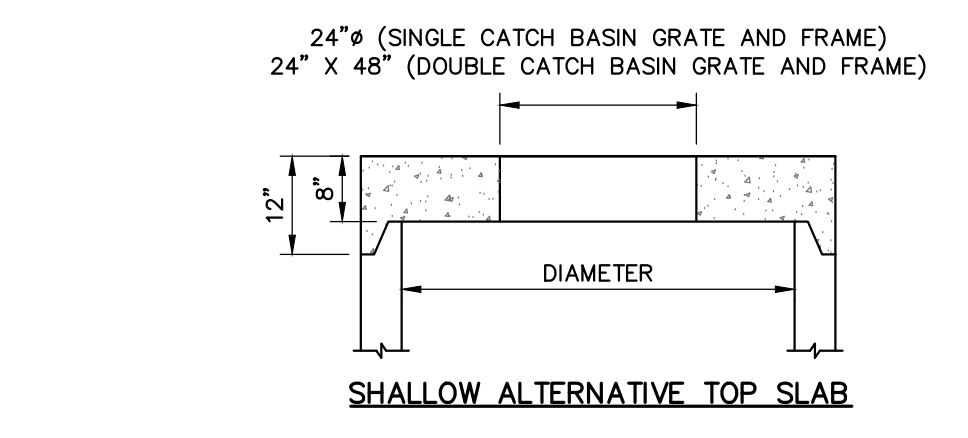


NYLOPLAST AREA DRAIN
NOT TO SCALE

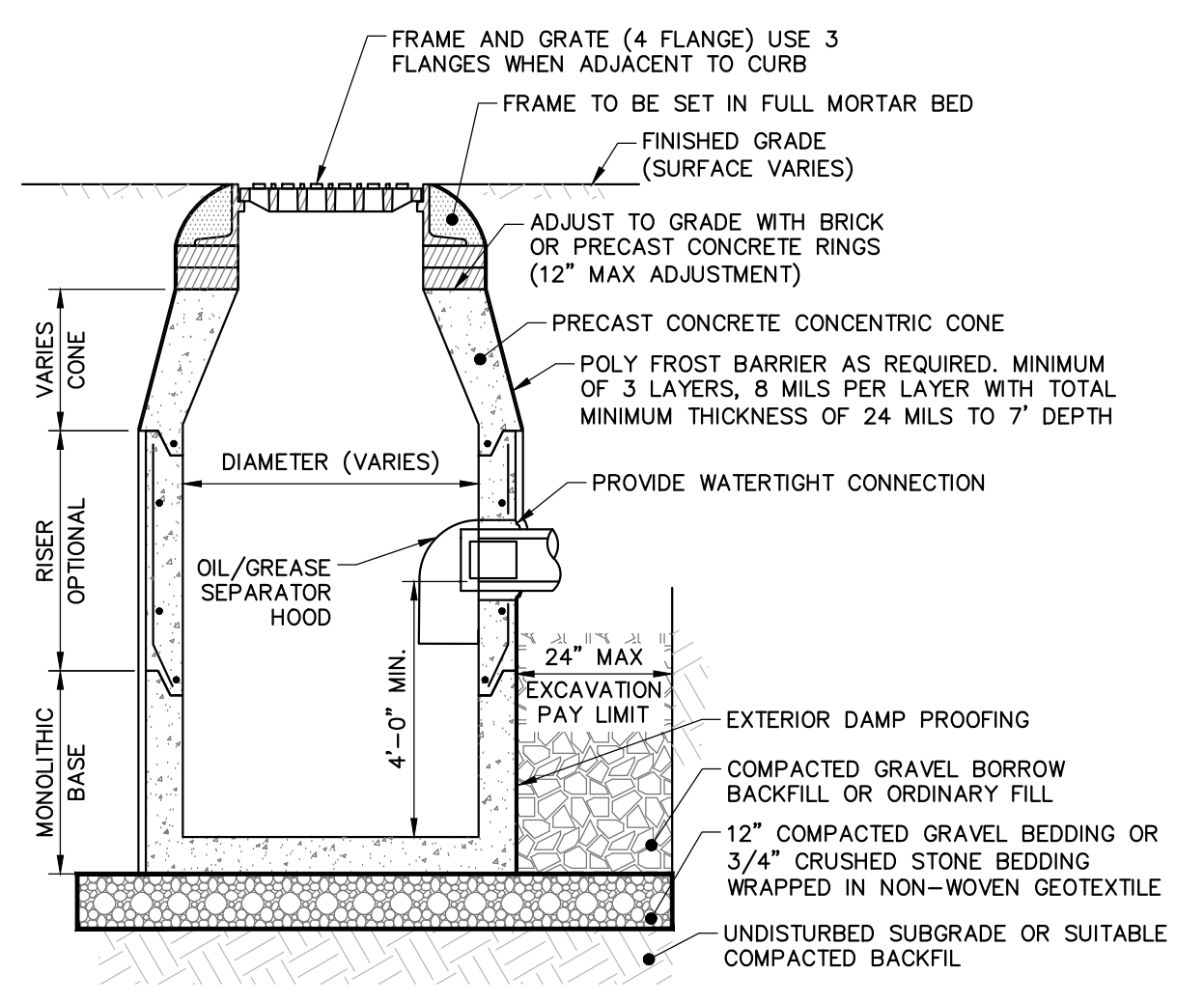
- NOTES:**
1. GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
 4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL, OR EQUAL) & SDR 35 PVC ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°.
 5. VARIABLE INVERT HEIGHTS VARYING TO PLANS (4\"/>



BEEHIVE GRATE
NOT TO SCALE

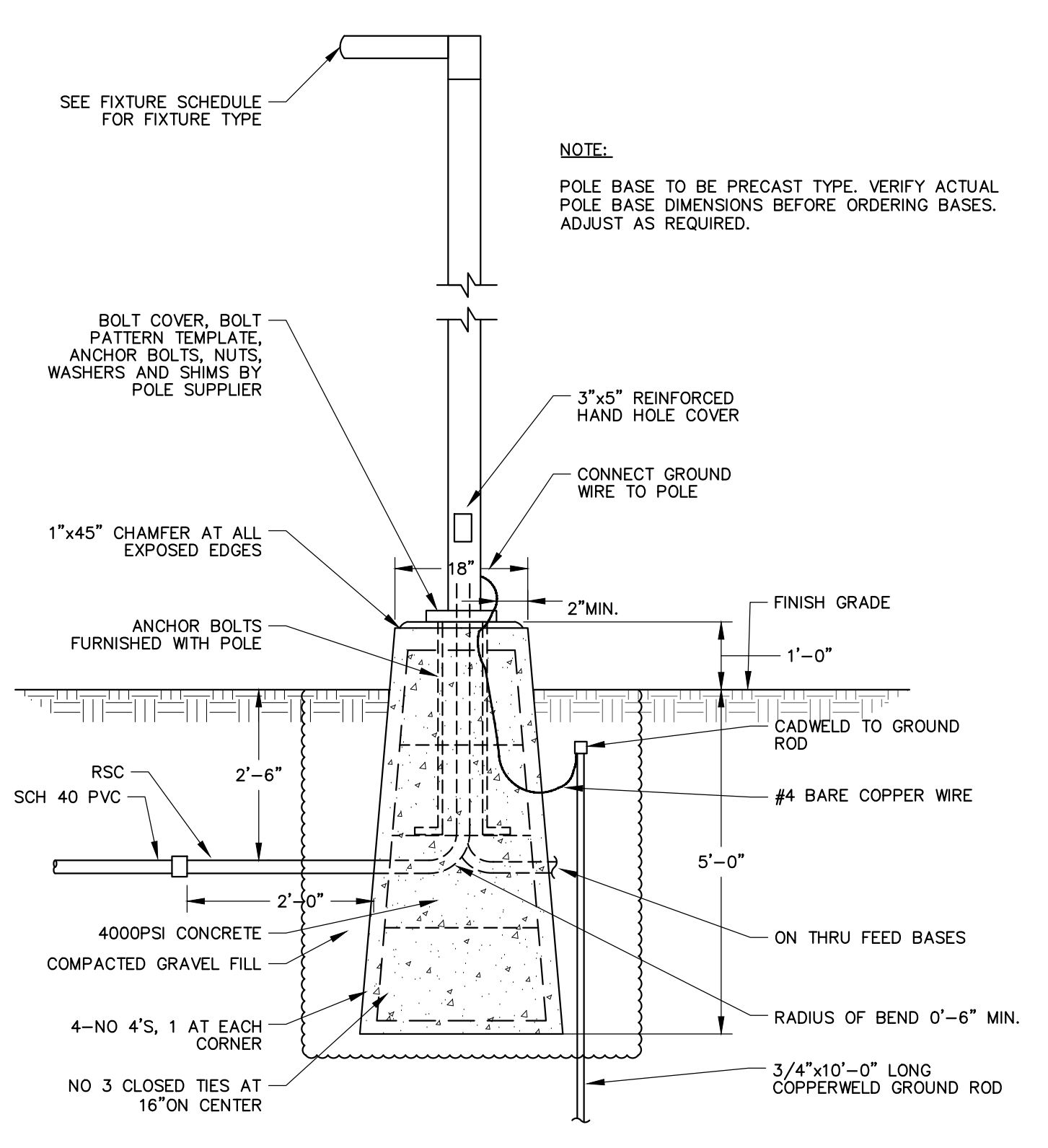


SHALLOW ALTERNATIVE TOP SLAB
NOT TO SCALE

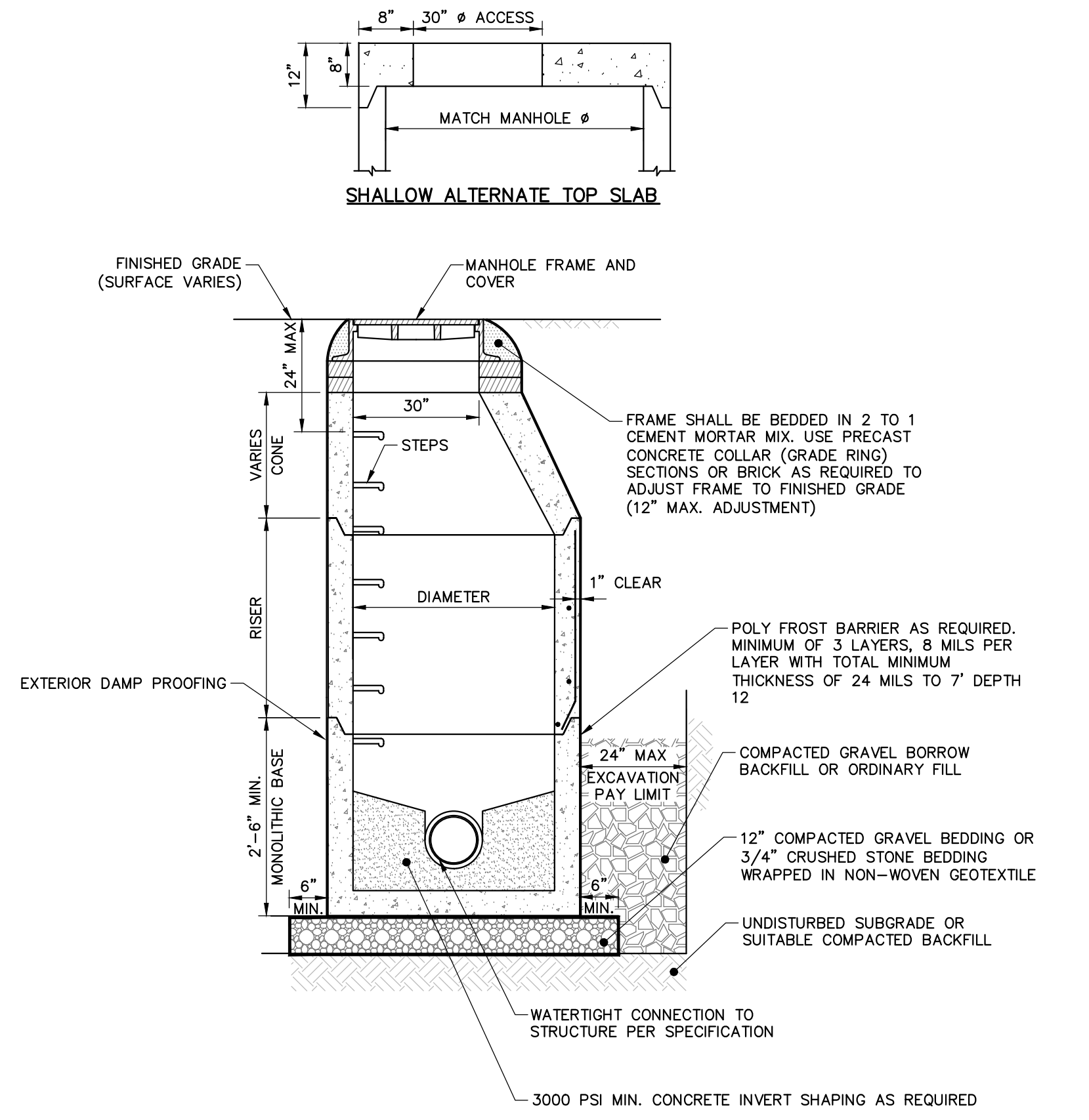


- NOTES:**
1. PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
 2. PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
 3. ALTERNATE TOP SLAB MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
 5. DOUBLE CATCH BASIN FRAME AND GRATE SHALL BE INSTALLED ON A MINIMUM 5'-0" DIAMETER TOP SLAB.
 6. PROVIDE MINIMUM 24" DIAMETER OPENING.
 7. PROVIDE ANTI-FLOATION SLAB EXTENSION AS REQUIRED TO SATISFY ANTI-FLOATION REQUIREMENTS.

PRECAST CONCRETE CATCH BASIN
NOT TO SCALE

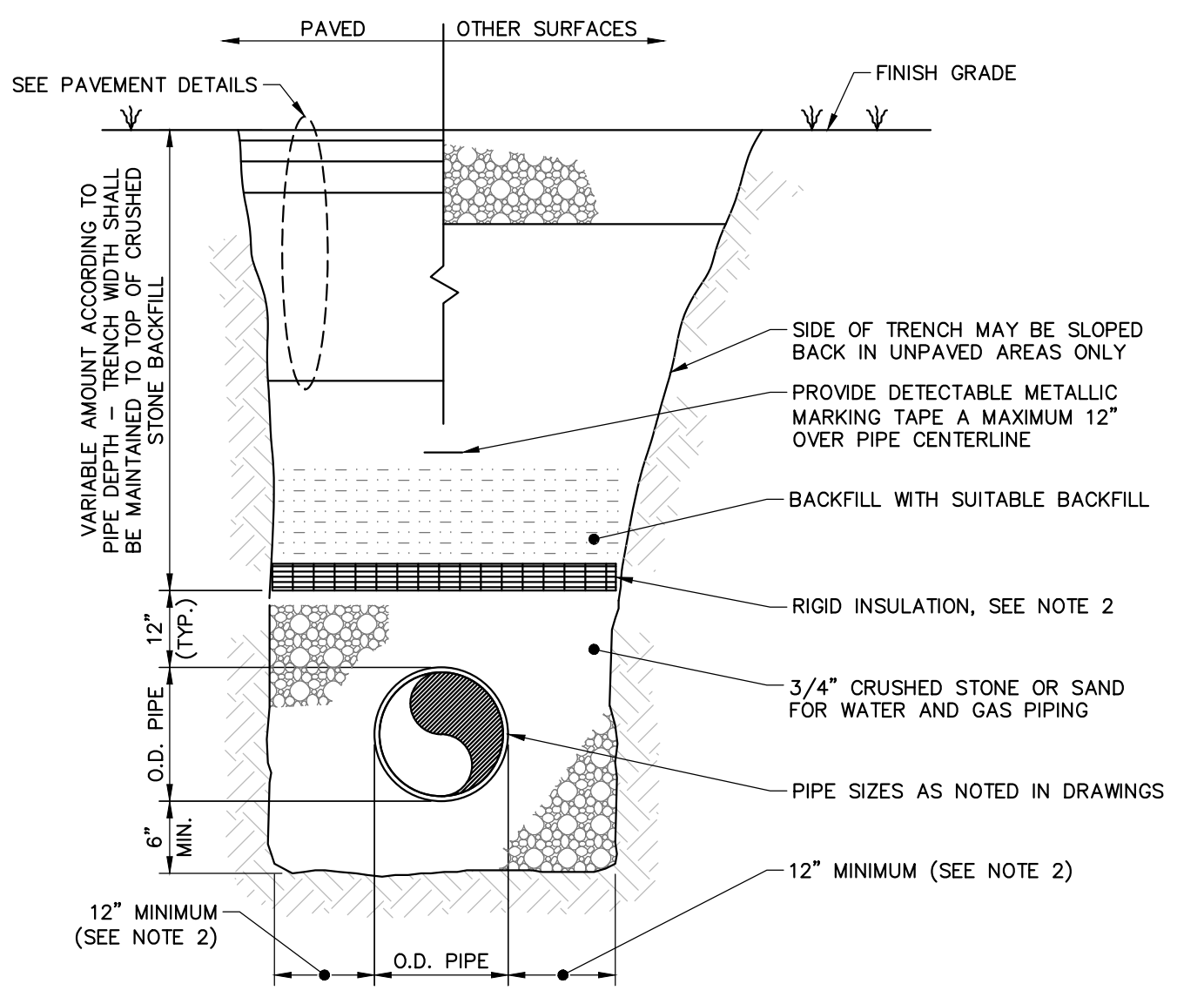


LIGHT POLE BASE
NOT TO SCALE



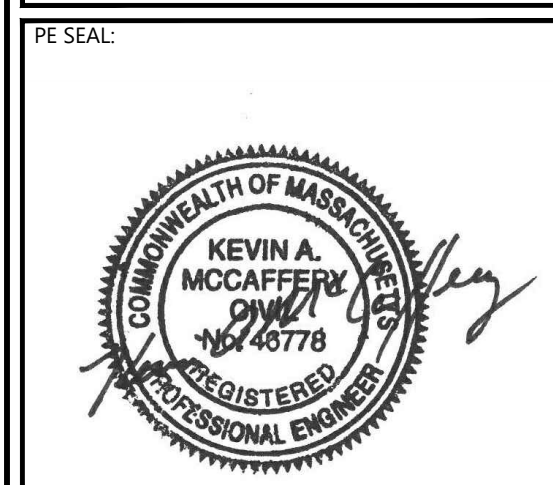
- NOTES:**
1. PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
 2. PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
 3. ALTERNATE TOP SLAB MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
 4. MANHOLE FRAME AND GRATE(S) SHALL MEET MUNICIPAL AND STATE SPECIFICATIONS WHEN APPLICABLE.
 5. REFER TO PROJECT SPECIFICATIONS FOR MORE DRAINAGE MANHOLE INFORMATION.
 6. JOINT SEALANT BETWEEN SECTIONS SHALL BE BUTYL RUBBER.
 7. PROVIDE ANTI-FLOATION SLAB EXTENSION AS REQUIRED TO SATISFY ANTI-FLOATION REQUIREMENTS.

PRECAST CONCRETE DRAINAGE MANHOLE
NOT TO SCALE



- NOTES:**
1. MAINTAIN UNIFORM TRENCH WIDTH TO 6" OVER PIPE.
 2. PROVIDE RIGID INSULATION, 2" THICKNESS, FOR ALL PIPING WITH LESS THAN 5'-0" OF COVER TO TOP OF PIPE (WATER). EXTEND INSULATION 18" OUT FROM EDGE OF PIPE. WHERE INSULATION IS REQUIRED, TRENCH WIDTH MUST EXTEND 18" MIN. FROM OUTSIDE EDGE OF PIPE.
 3. BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE O.S.H.A. SAFETY REGULATIONS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF CONTRACTOR.

SINGLE PIPE TRENCH
NOT TO SCALE



ISSUE FOR PERMIT

CLIENT INFO:
TOWN OF SCITUATE,
MASSACHUSETTS
453 CHIEF JUSTICE
CUSHING HIGHWAY

STEARNS MEADOW
DRINKING WATER
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION

JOB NO: 0233681.02
DATE: AUGUST 10, 2023
SCALE: AS SHOWN
DESIGNED BY: JC
DRAWN BY: MB
CHECKED BY: SK
FILENAME: 0233681.02 C-90X.dwg

CIVIL DETAILS 3

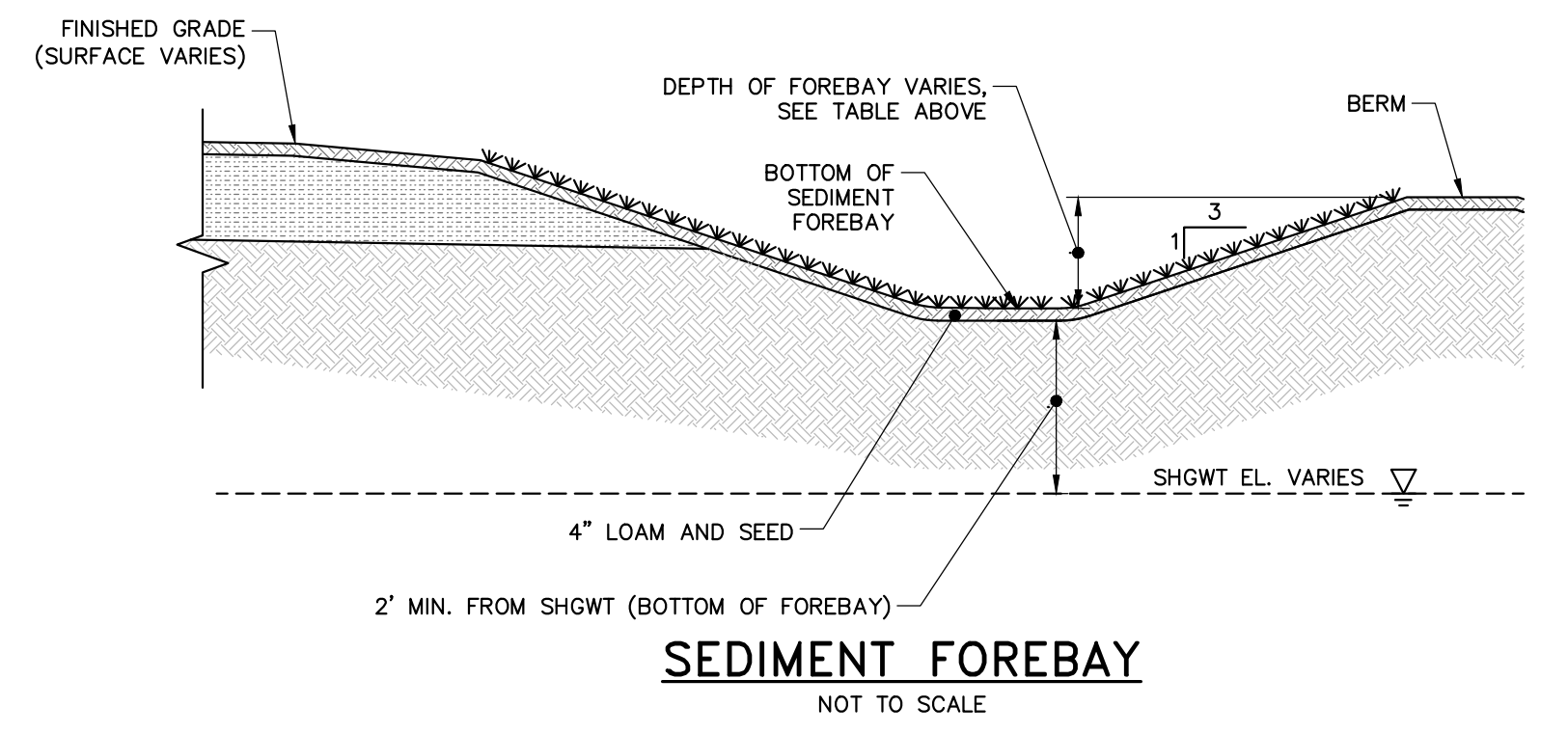
DRAWING NO:
C-902

WoodardCurran.net\shane\Projects\0233681.02_sciutate_meadow\wp - design\wp\Drawings\Civil\Permit\TNG\0233681.02_C-90X.dwg, Aug 09, 2023, 6:23pm, MBROWN



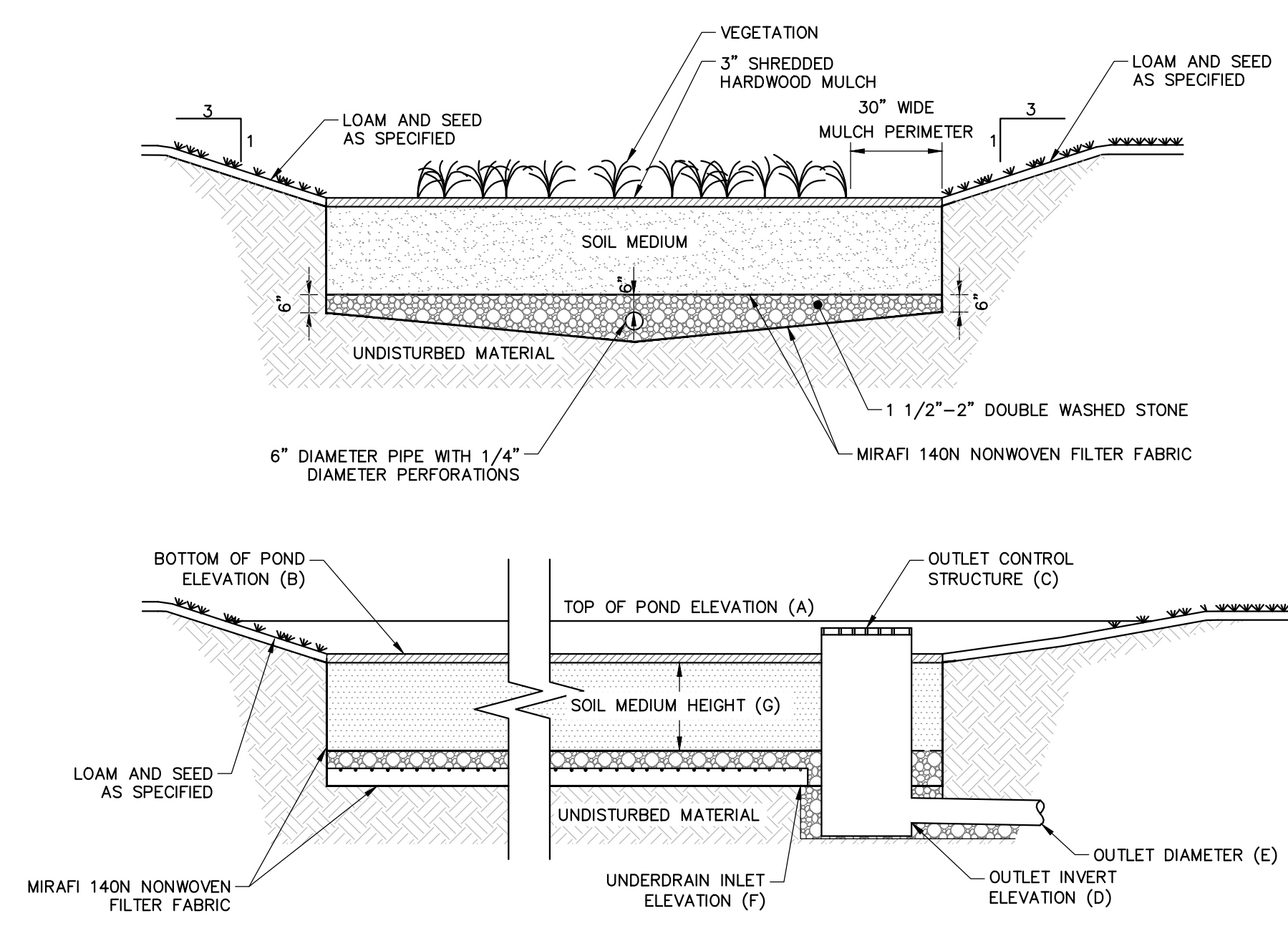
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SEDIMENT FOREBAY ELEVATIONS									
POND	1-YEAR STORM EL.	2-YEAR STORM EL.	10-YEAR STORM EL.	100-YEAR STORM EL.	APPROX. SHGW EL.	BERM EL.	FINISHED GRADE EL.	SEDIMENT FOREBAY BOTTOM EL.	SEDIMENT FOREBAY DEPTH (FT)
3P	76.21	76.25	76.36	76.54	65.90	76.00	77.00	74.00	2.00
6P	78.77	78.80	78.86	78.99	71.00	78.60	79.00	77.00	1.60
9P	71.65	71.68	71.76	71.90	65.00	71.50	72.00	70.00	1.50
10P	70.13	70.16	70.22	70.33	65.90	70.00	71.00	69.00	1.00



SEDIMENT FOREBAY
NOT TO SCALE

BIO-RETENTION POND SCHEDULE				
COMPONENT	1P	2P	5P	8P
TOP OF POND EL. (A)	78.00	71.00	75.00	70.00
BOTTOM OF POND EL. (B)	76.50	69.50	73.00	69.00
OUTLET CONTROL STRUCTURE EL. (C)	77.38	N/A	73.89	N/A
OUTLET INVERT EL. (D)	71.75	N/A	70.89	66.00
UNDERDRAIN INVERT EL. (F)	N/A	N/A	N/A	65.50
SOIL MEDIUM HEIGHT (G)	24"	30"	30"	30"
BOTTOM OF SOIL MEDIUM EL.	74.50	67.00	70.50	66.50
1-YEAR STORM EL.	77.41	70.48	74.03	69.88
2-YEAR STORM EL.	77.47	70.51	74.10	69.90
10-YEAR STORM EL.	77.60	70.58	74.23	69.93
100-YEAR STORM EL.	77.73	70.72	74.46	69.99
APPROX. SHGW EL.	71.00	65.00	65.90	65.90

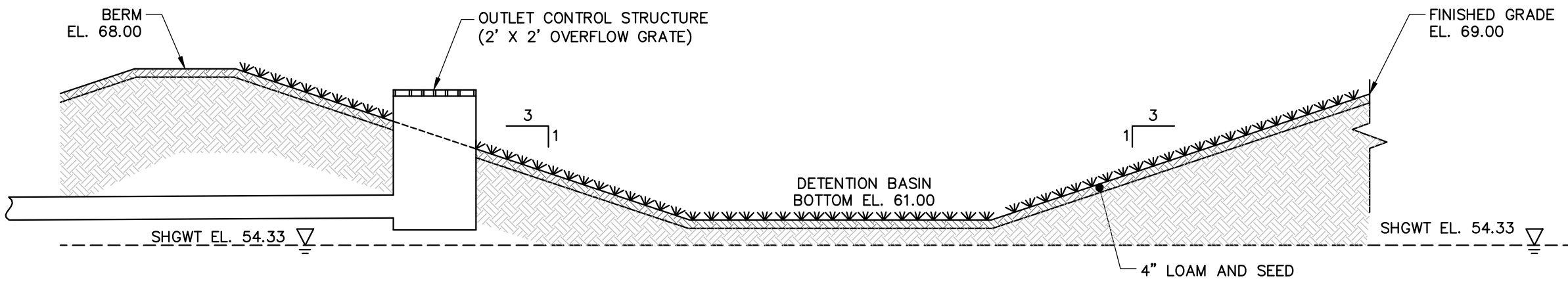


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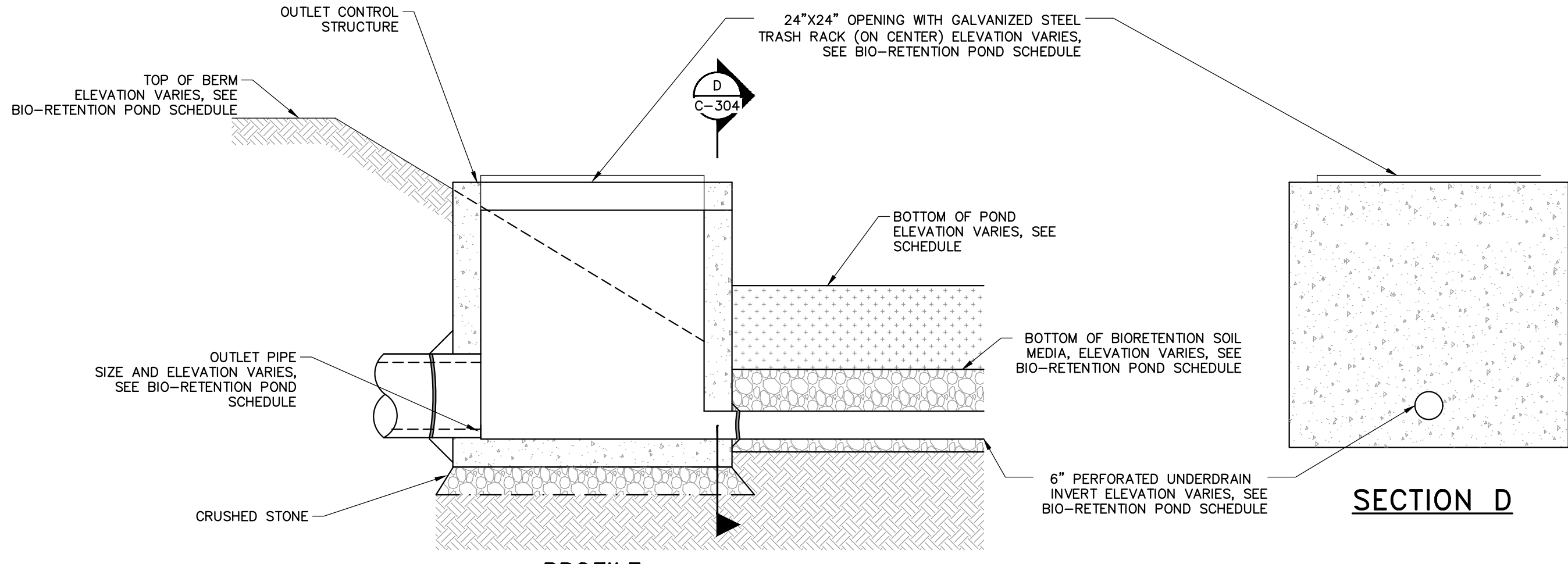
- IF UNSUITABLE MATERIAL IS OBSERVED BELOW THE POND DEPTH, AT A MINIMUM IT SHALL BE REMOVED TO A DEPTH OF TWO FEET AND REPLACED WITH CLEAN SAND AND THE ENGINEER SHOULD BE NOTIFIED.
- SOIL WITHIN BIO-RETENTION AREA TO BE PLACED, DO NOT COMPACT, LIFTS TO BE LIGHTLY WATERED TO ENCOURAGE NATURAL COMPACTION.

BIORETENTION POND
NOT TO SCALE

DETENTION BASIN ELEVATIONS										
POND	1-YEAR STORM EL.	2-YEAR STORM EL.	10-YEAR STORM EL.	100-YEAR STORM EL.	OUTLET SIZE (IN.)	OUTLET INV.	ORIFICE SIZE (IN.)	ORIFICE INV.	BERM EL.	OUTLET CONTROL STRUCTURE EL.
4P	63.42	64.72	65.65	68.54	12	58.00	4	61.00	68.00	65.00



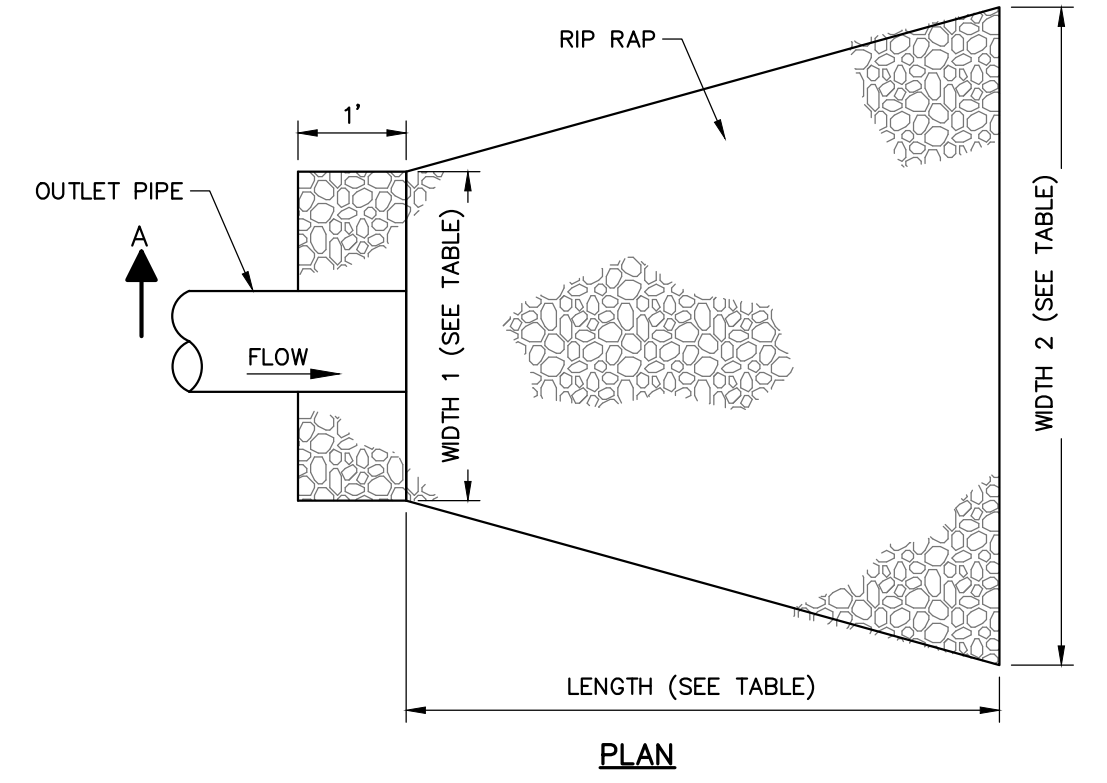
DETENTION BASIN
NOT TO SCALE



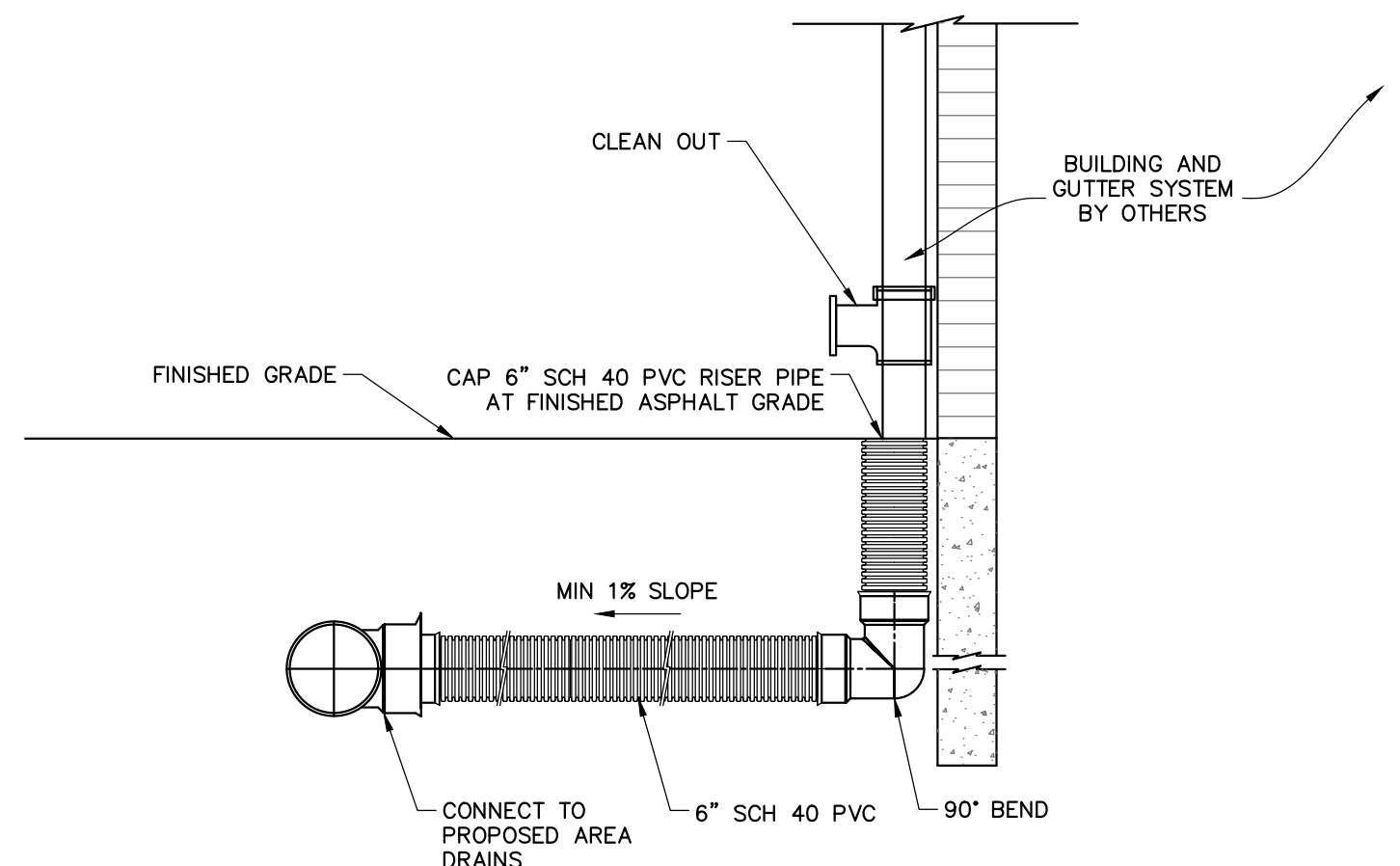
PROFILE

OUTLET CONTROL STRUCTURE TO BIORETENTION POND
NOT TO SCALE

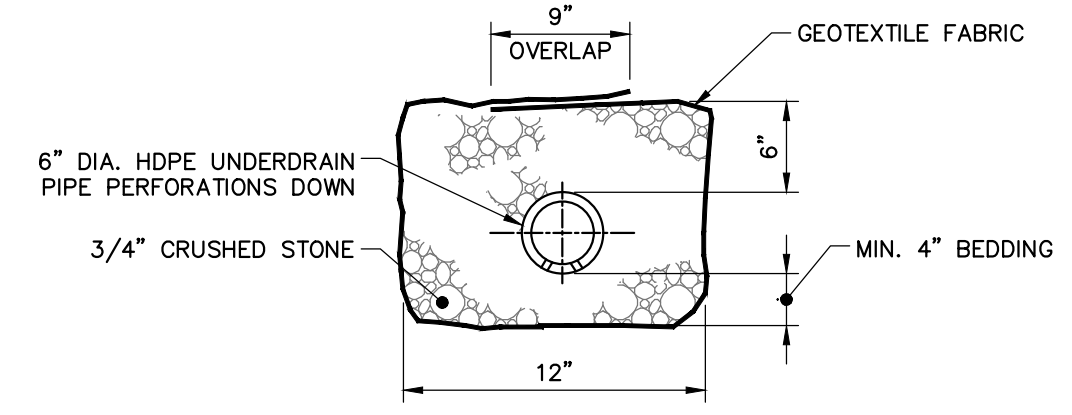
POND TYPE	PIPE DIAMETER (FT)	MEDIAN STONE DIAMETER D50 (IN)	LENGTH (FT)	DEPTH (FT)	WIDTH 1 (FT)	WIDTH 2 (FT)
DETENTION POND	1'	9"	10'	2'	5'	10'
BIORETENTION POND	0.5'	9"	10'	2'	5'	8'
UNDERDRAIN OUTLET NO. 1	1'	9"	10'	2'	5'	10'
UNDERDRAIN OUTLET NO. 2	0.5'	9"	10'	2'	5'	8'



RIPRAP APRON FOR OUTLETS
NOT TO SCALE



ROOF DRAIN LEADER CONNECTION
NOT TO SCALE



UNDERDRAIN
NOT TO SCALE

PE SEAL:



ISSUE FOR PERMIT

CLIENT INFO:
TOWN OF SCITUATE,
MASSACHUSETTS
453 CHIEF JUSTICE
CUSHING HIGHWAY

STEARNS MEADOW
DRINKING WATER
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION
JOB NO:	0233681.02	
DATE:	AUGUST 10, 2023	
SCALE:	AS SHOWN	
DESIGNED BY:	JC	
DRAWN BY:	MB	
CHECKED BY:	SK	
FILENAME:	0233681.02 C-90X.dwg	

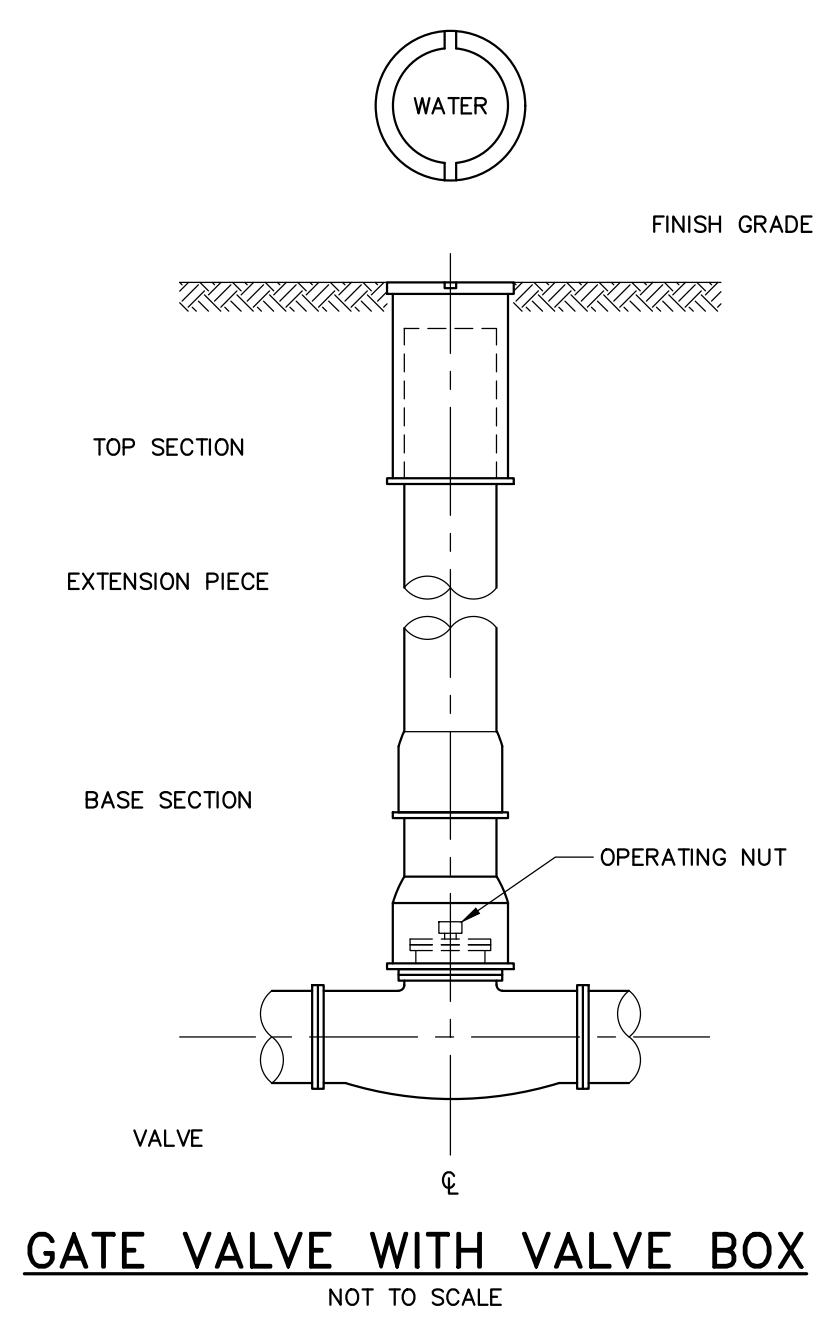
CIVIL DETAILS 4

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C-903

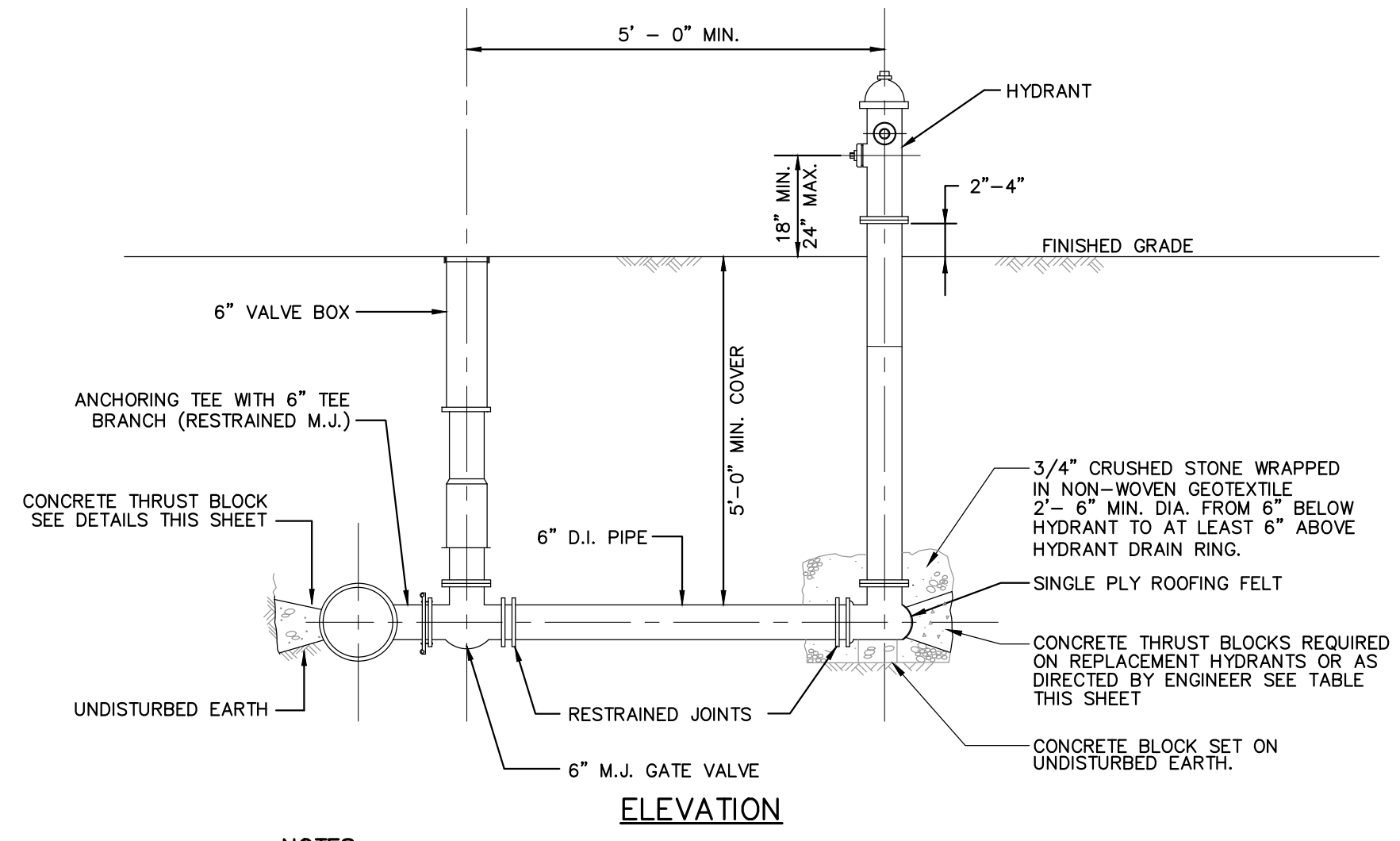
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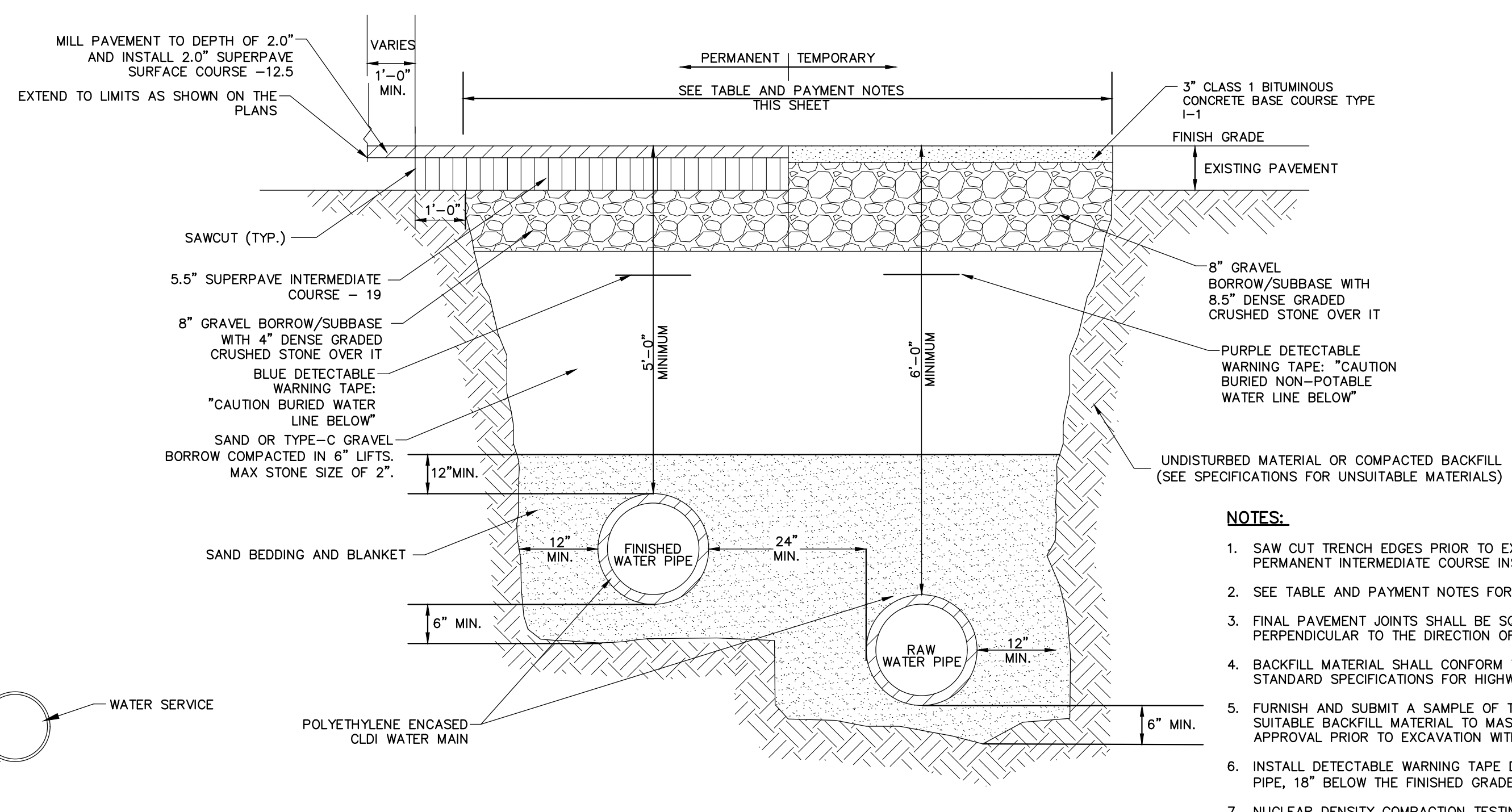


GATE VALVE WITH VALVE BOX
NOT TO SCALE



- NOTES:**
1. ALL HYDRANT, VALVE AND TEE JOINTS TO BE RESTRAINED BY MECHANICAL JOINTS.
 2. HYDRANT LATERALS SHALL BE CONSTRUCTED FROM ONE CONTINUOUS PIPE LENGTH. LATERALS LONGER THAN ONE PIPE LENGTH SHALL USE SOLID SLEEVES BETWEEN PIPES. HYDRANT LATERALS WITH BELL JOINTS AND COUPLINGS SHALL NOT BE ACCEPTED.
 3. PROVIDE THRUST BLOCK WITH MINIMUM BEARING AREA OF 12 SQUARE FEET.
 4. ALL BURIED PIPE, VALVES, AND JOINTS SHALL BE POLYETHYLENE ENCASED.

HYDRANT
NOT TO SCALE



TYPICAL TRENCH & PAVEMENT DETAIL FOR PARALLEL PIPE INSTALLATION
NOT TO SCALE

- NOTES:**
1. SAW CUT TRENCH EDGES PRIOR TO EXCAVATING AND FOR PERMANENT INTERMEDIATE COURSE INSTALLATION.
 2. SEE TABLE AND PAYMENT NOTES FOR PAY LIMITS.
 3. FINAL PAVEMENT JOINTS SHALL BE SQUARE AND PERPENDICULAR TO THE DIRECTION OF TRAVEL.
 4. BACKFILL MATERIAL SHALL CONFORM TO THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
 5. FURNISH AND SUBMIT A SAMPLE OF THE PROPOSED SUITABLE BACKFILL MATERIAL TO MASSDOT FOR APPROVAL PRIOR TO EXCAVATION WITHIN ROUTE 3A.
 6. INSTALL DETECTABLE WARNING TAPE DIRECTLY OVER THE PIPE, 18" BELOW THE FINISHED GRADE.
 7. NUCLEAR DENSITY COMPACTION TESTING SHALL BE COMPLETED BY A MASSDOT APPROVED AGENCY.
 8. TRENCHES SHALL BE PAVED BY THE END OF EACH WORKDAY.

TRENCH, PAVEMENT & ROCK WIDTH PAY LIMITS (FT.)

TRENCH DEPTH	NOMINAL PIPE DIAMETER (D)	TRENCH WIDTH	TEMPORARY TRENCH WIDTH PAVEMENT	PERMANENT 5.5" INTERMEDIATE COURSE TRENCH WIDTH PAVEMENT	PERMANENT 2.0" TOP COURSE TRENCH WIDTH PAVEMENT AS SHOWN ON PLANS	ROCK EXCAVATION
0 TO 12'	0 TO 24"	7' - 0"	7' - 0"	9' - 0"	AS SHOWN ON PLANS	7' - 0"

- PAYMENT NOTES:**
1. PAYMENT FOR ROCK REMOVAL SHALL INCLUDE REMOVAL UP TO 6-INCHES BELOW THE BOTTOM OF THE NEW PIPE.

UNUSUAL CONDITION PARALLEL INSTALLATION

- NOTES:**
- THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE FOLLOWING GENERAL REQUIREMENTS.
- A. PARALLEL INSTALLATION:**
1. NORMAL CONDITIONS: THE INSIDE EDGE OF A WATER MAIN SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE INSIDE EDGE OF ANY SANITARY SEWER, STORM SEWER OR SEWER MANHOLE.
 2. UNUSUAL CONDITIONS: WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, THE INSIDE EDGE OF A WATER MAIN MAY BE LAID A MINIMUM OF 5 FEET FROM THE INSIDE EDGE OF A SEWER PROVIDED THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER.
- B. CROSSINGS:**
1. NORMAL CONDITIONS: WHENEVER POSSIBLE, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER.
 2. UNUSUAL CONDITIONS: IF A WATER MAIN MUST CROSS UNDER A SEWER, THE TOP OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES LOWER THAN THE BOTTOM OF THE SEWER, THE WATER MAIN PIPE SHALL BE CENTERED AT THE CROSSING SO THAT THE JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER, AND ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE SEWER AT THE CROSSING.

WATER MAIN AND STORM OR SANITARY SEPARATION

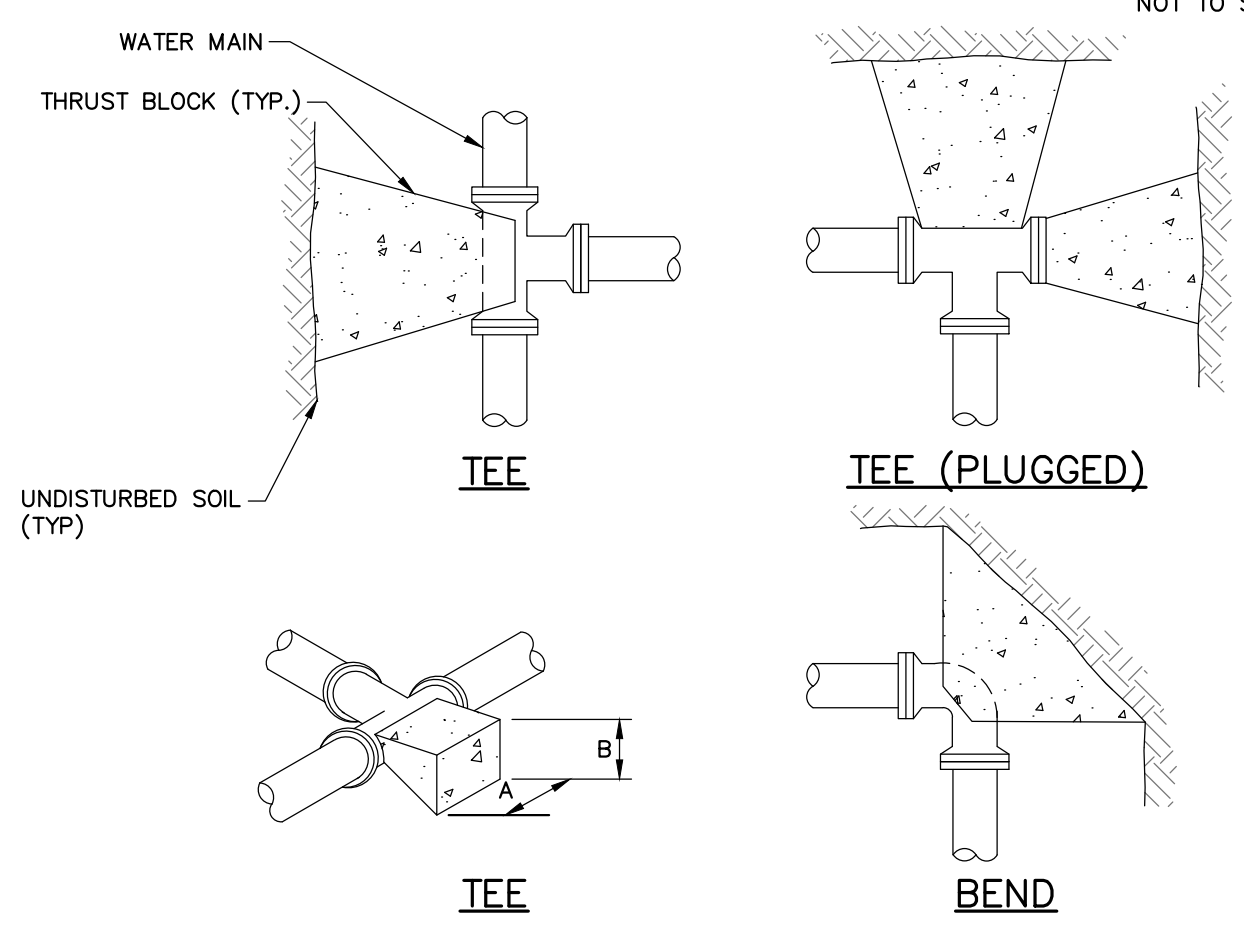


TABLE 1: 4" THRU 10" FITTINGS

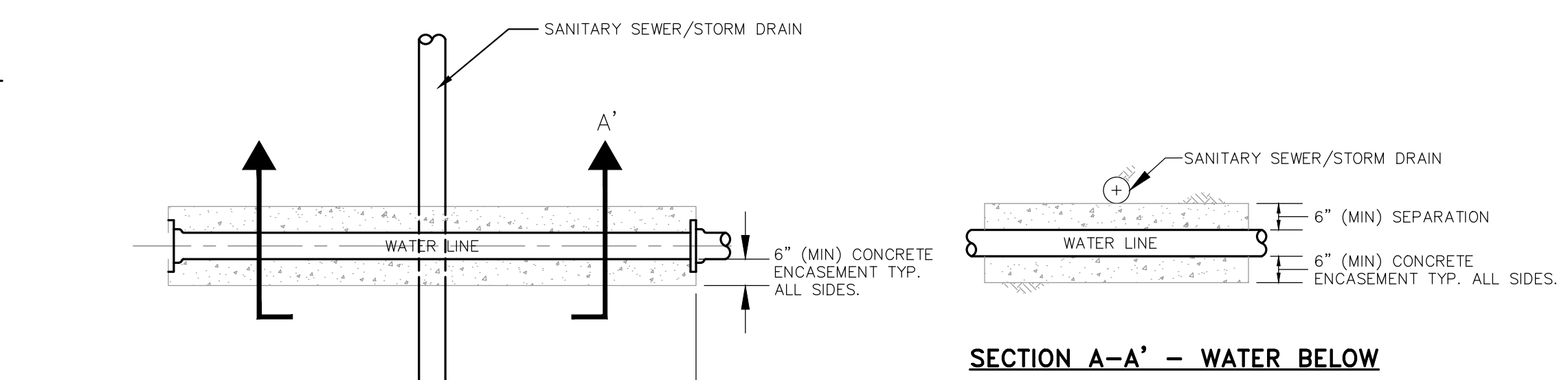
SOIL TYPE	TEES		BENDS	
	A	B	A	B
SOFT CLAY	48"	24"	48"	24"
SAND	24"	24"	24"	24"
GRAVEL	24"	18"	24"	18"

TABLE 2: 12" THRU 16" FITTINGS

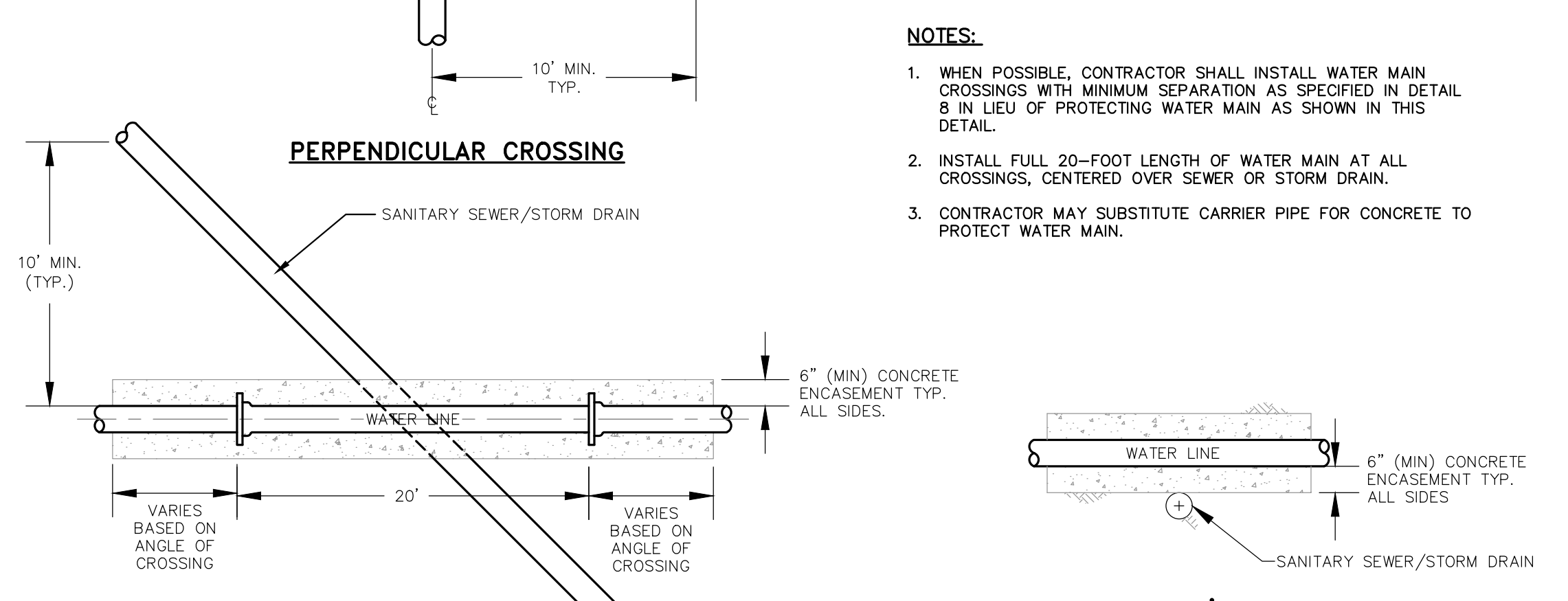
SOIL TYPE	TEES		BENDS	
	A	B	A	B
SOFT CLAY	60"	36"	72"	36"
SAND	36"	30"	48"	30"
GRAVEL	30"	24"	40"	24"

- NOTES:**
1. CONCRETE FOR ALL THRUST BLOCKS TO BE MINIMUM 3,000 PSI, 28 DAY STRENGTH, TYPE I CEMENT, 3/4" STONE.
 2. WHERE POSSIBLE, CONSTRUCT THRUST BLOCKS AGAINST UNDISTURBED SOIL. WHERE NOT POSSIBLE PLACE FILL BETWEEN THE THRUST BLOCK AND THE UNDISTURBED SOIL COMPACTED TO 90% STANDARD PROCTOR DENSITY.
 3. WRAP FITTINGS WITH POLYETHYLENE PRIOR TO CONSTRUCTING THRUST BLOCKS. NO JOINTS SHALL BE COVERED WITH CONCRETE.
 4. THRUST BLOCK DIMENSIONS ARE BASED ON A MAXIMUM WATER MAIN PRESSURE OF 150 PSI.

TYPICAL THRUST BLOCK
NOT TO SCALE



SECTION A-A' - WATER BELOW

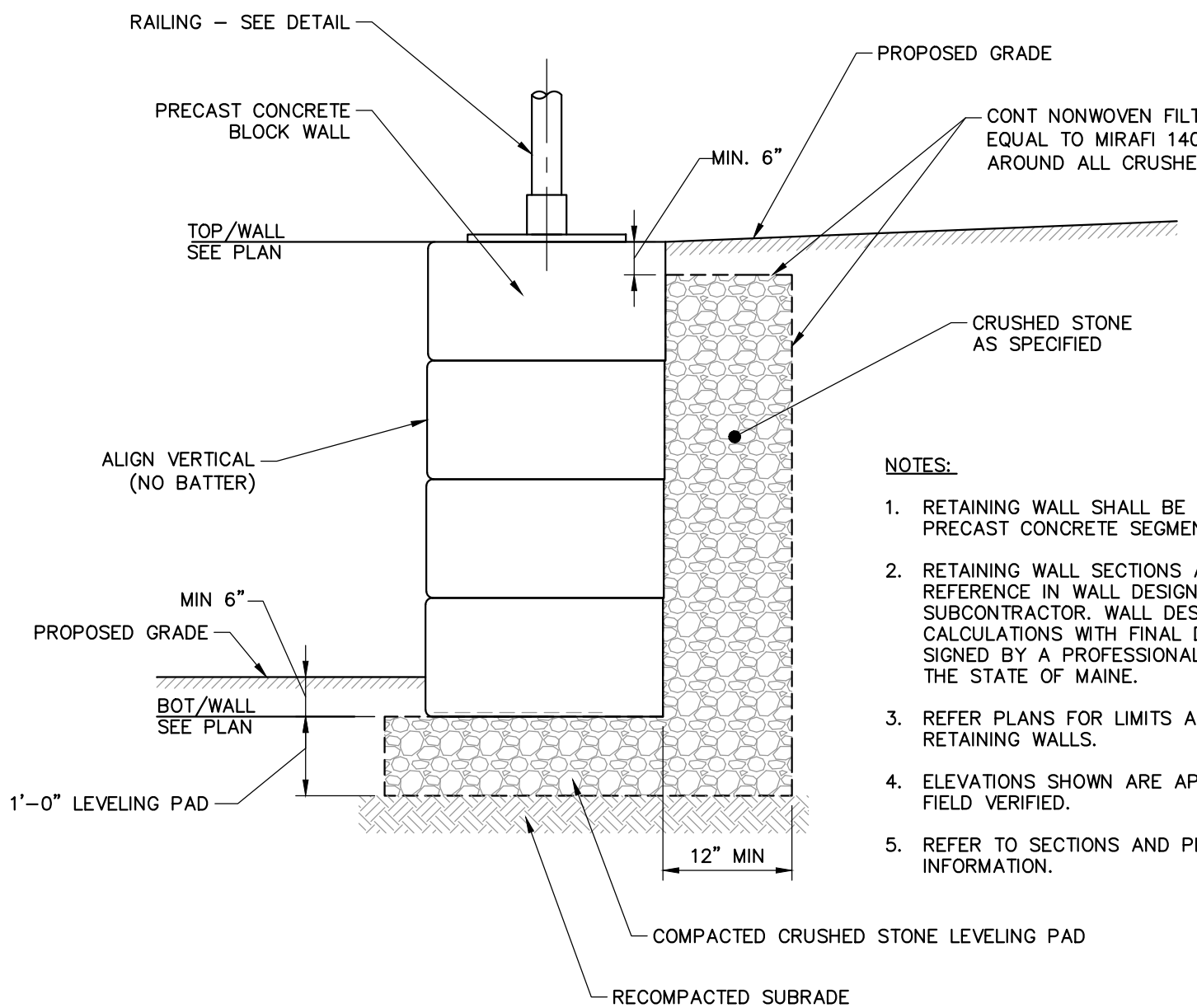


SECTION A-A' - WATER ABOVE

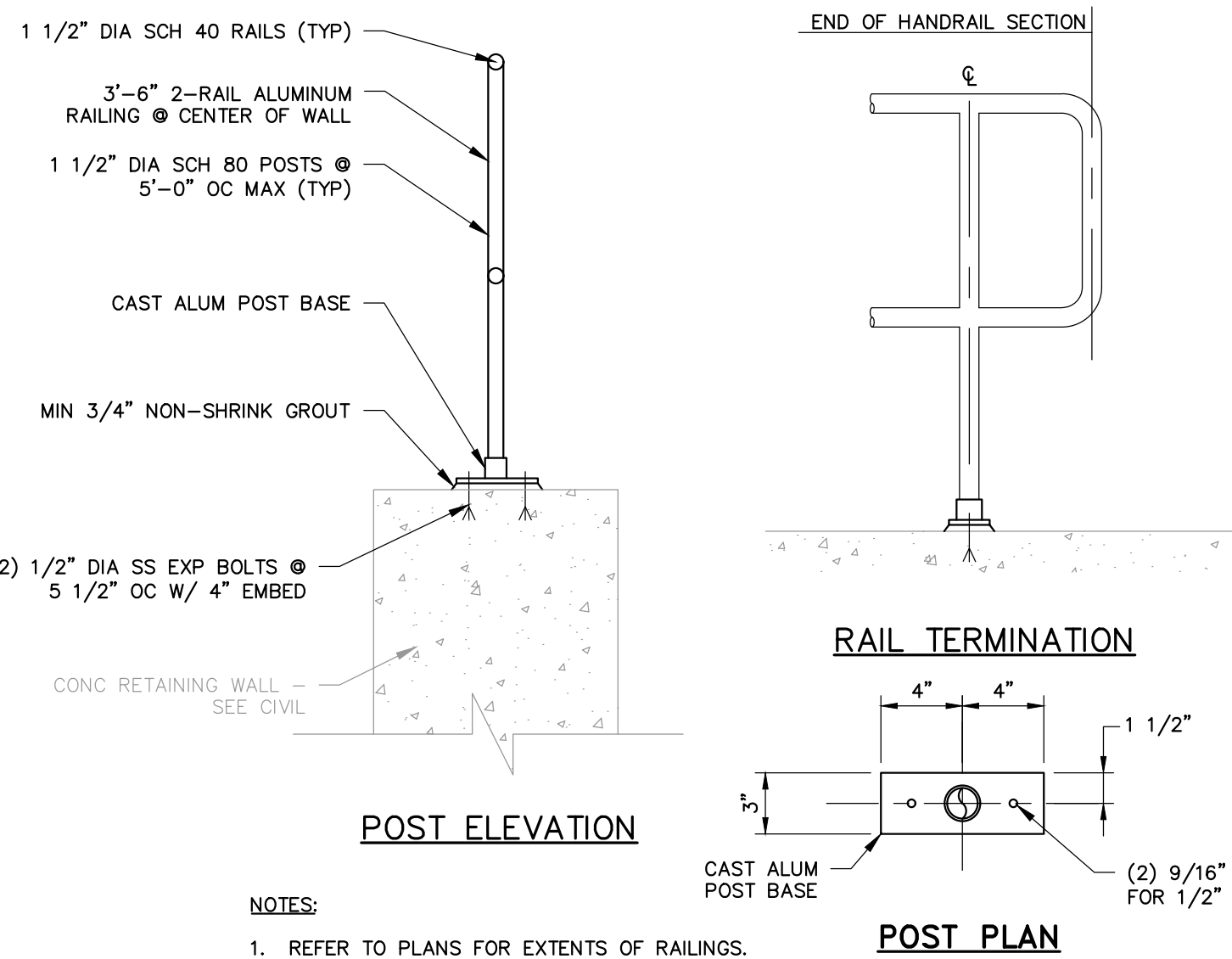
- NOTES:**
1. WHEN POSSIBLE, CONTRACTOR SHALL INSTALL WATER MAIN CROSSINGS WITH MINIMUM SEPARATION AS SPECIFIED IN DETAIL B IN LIEU OF PROTECTING WATER MAIN AS SHOWN IN THIS DETAIL.
 2. INSTALL FULL 20-FOOT LENGTH OF WATER MAIN AT ALL CROSSINGS, CENTERED OVER SEWER OR STORM DRAIN.
 3. CONTRACTOR MAY SUBSTITUTE CARRIER PIPE FOR CONCRETE TO PROTECT WATER MAIN.

WATER MAIN AND STORM OR SANITARY CROSSING ENCASEMENT

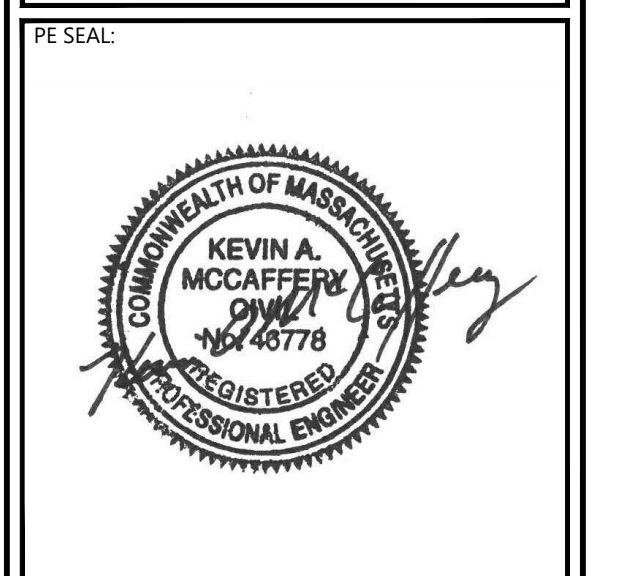
NOT TO SCALE



RETAINING WALL DETAIL
SCALE: NOT TO SCALE



RAILING DETAIL
N.T.S.



ISSUE FOR PERMIT

CLIENT INFO:
TOWN OF SCITUATE,
MASSACHUSETTS
453 CHIEF JUSTICE
CUSHING HIGHWAY

STEARNS MEADOW
DRINKING WATER
TREATMENT PLANT

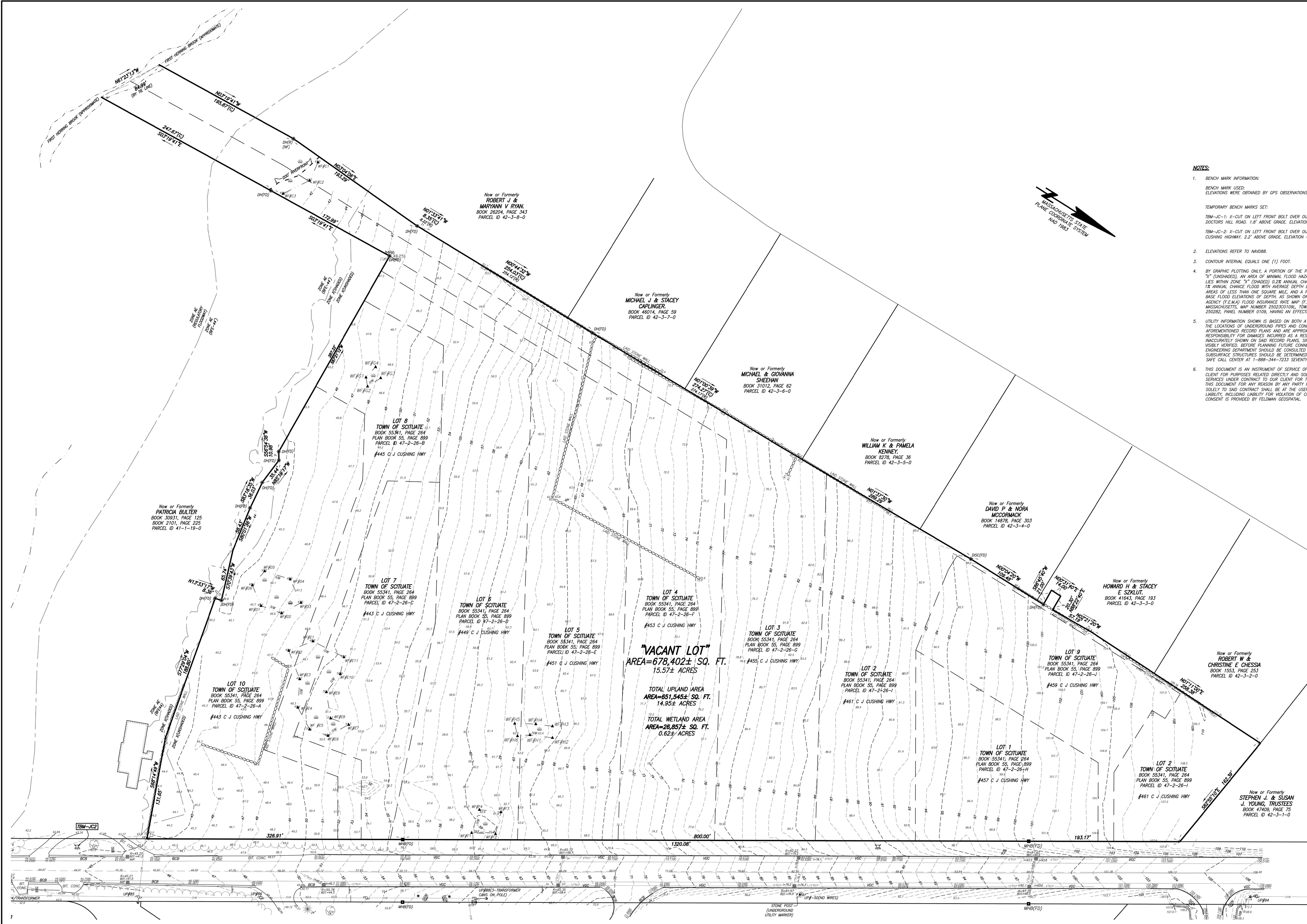
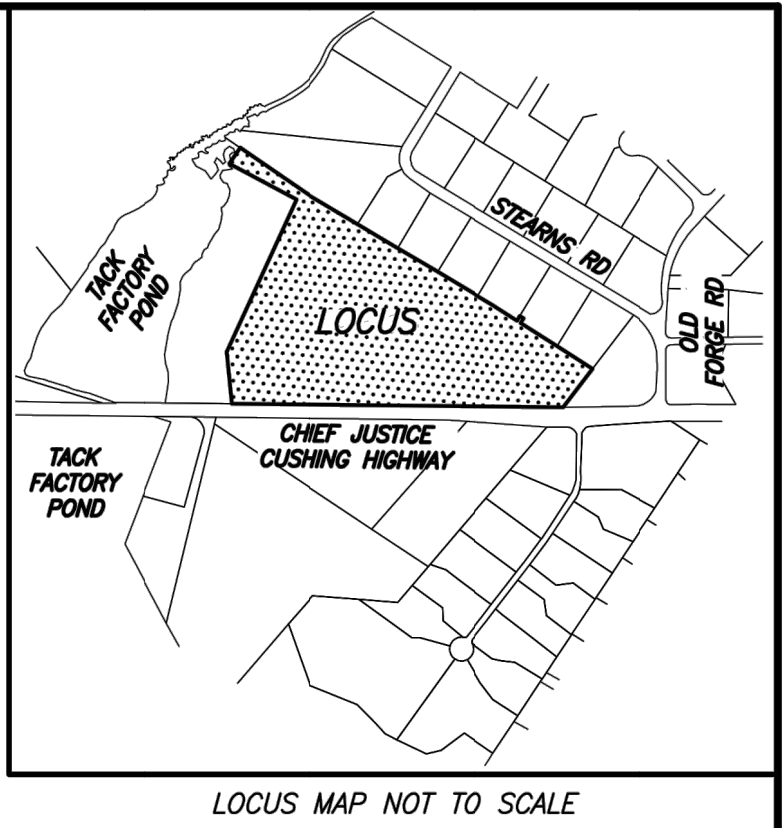
REV	MM/DD/YY	DESCRIPTION

JOB NO: 0233681.02
DATE: AUGUST 10, 2023
SCALE: AS SHOWN
DESIGNED BY: JC
DRAWN BY: MB
CHECKED BY: SK/KM
FILENAME: 0233681.02 C-90X.dwg

CIVIL DETAILS 5

DRAWING NO:
C-904

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- NOTES:**
- BENCH MARK INFORMATION:
BENCH MARK USED:
ELEVATIONS WERE OBTAINED BY GPS OBSERVATIONS ON DECEMBER 8, 2021.
TEMPORARY BENCH MARKS SET:
TBM-JC-1: X-CUT ON LEFT FRONT BOLT OVER OUTLET OF HYDRANT ON NORTH OF DOCTORS HILL ROAD. 1.8' ABOVE GRADE. ELEVATION = 106.87
TBM-JC-2: X-CUT ON LEFT FRONT BOLT OVER OUTLET OF HYDRANT IN FRONT OF 439 CUSHING HIGHWAY. 2.2' ABOVE GRADE. ELEVATION = 46.72
 - ELEVATIONS REFER TO NAVD83.
CONTOUR INTERVAL EQUALS ONE (1) FOOT.
 - BY GRAPHIC PLOTTING ONLY, A PORTION OF THE PARCEL SHOWN HEREON LIES WITHIN ZONE "X" (UNSHADED), AN AREA OF MINIMAL FLOOD HAZARD, AND A PORTION OF THE PARCEL LIES WITHIN ZONE "Y" (SHADED) 0.2% ANNUAL CHANCE FLOOD HAZARD, AND ALSO AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE, AND A PORTION LIES WITHIN ZONE "AE" WITH BASIC FLOOD ELEVATIONS OF DEPTH 4.5' SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR PLYMOUTH COUNTY, MASSACHUSETTS, MAP NUMBER 25022C0201R, TOWN OF SCITUATE COMMUNITY NUMBER 2502R, PANEL NUMBER 0159, HAVING AN EFFECTIVE DATE OF JULY 6, 2021.
 - UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFORESAID RECORD PLANS AND ARE APPROXIMATE ONLY. WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLANS. SINCE SUBSURFACE UTILITIES CANNOT BE VISIBLY DETECTED, BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL "TOLL FREE, THE DIO SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
 - THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF FELDMAN GEOSPATIAL ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO FELDMAN GEOSPATIAL'S SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY FELDMAN GEOSPATIAL.

"VACANT LOT"
AREA=678,402± SQ. FT.
15.57± ACRES

TOTAL UPLAND AREA
AREA=651,545± SQ. FT.
14.95± ACRES

TOTAL WETLAND AREA
AREA=26,857± SQ. FT.
0.62± ACRES

Now or Formerly
PATRICIA BULTER
BOOK 30831, PAGE 125
BOOK 2101, PAGE 225
PARCEL ID 41-1-19-0

Now or Formerly
ROBERT J & MARYANN V RYAN
BOOK 26204, PAGE 343
PARCEL ID 42-3-8-0

Now or Formerly
MICHAEL J & STACEY CAPLINGER
BOOK 46014, PAGE 59
PARCEL ID 42-3-7-0

Now or Formerly
MICHAEL & GIOVANNA SHEETAN
BOOK 31012, PAGE 62
PARCEL ID 42-3-6-0

Now or Formerly
WILLIAM K & PAMELA KENNEY
BOOK 3278, PAGE 36
PARCEL ID 42-3-5-0

Now or Formerly
DAVID P & NORA MCCORMACK
BOOK 14878, PAGE 303
PARCEL ID 42-3-4-0

Now or Formerly
HOWARD H & STACEY E SZKLUT
BOOK 41943, PAGE 193
PARCEL ID 42-3-3-0

Now or Formerly
ROBERT W & CHRISTINE E CHESSIA
BOOK 1553, PAGE 253
PARCEL ID 42-3-2-0

Now or Formerly
STEPHEN J & SUSAN J. YOUNG, TRUSTEES
BOOK 47408, PAGE 75
PARCEL ID 42-3-1-0

- LEGEND**
- BOUND FOUND
 - (C) CALCULATED
 - DH DRILL HOLE
 - FD FOUND
 - NTS NOT TO SCALE
 - Rn RADIIUS OR RIM ELEVATION
 - (R) RECORD
 - (REC) RECORD
 - SQ. FT. SQUARE FEET
 - TSM TEMPORARY BENCH MARK
 - WF-## WETLAND FLAG NUMBER
 - WETLANDS
 - ▲ WETLAND FLAG

- REFERENCES**
- PLYMOUTH COUNTY REGISTRY OF DEEDS
- PLAN BOOK 25, PAGE 884
 - PLAN BOOK 11, PAGE 893
 - PLAN BOOK 55, PAGE 899
 - DEED BOOK 55341, PAGE 264

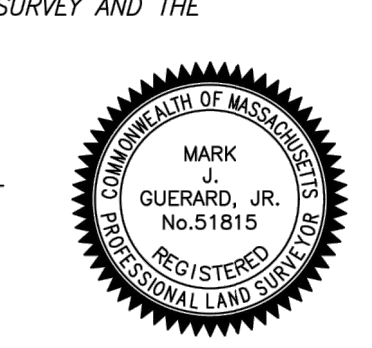
RECORD OWNER:

Now or Formerly
TOWN OF SCITUATE
BOOK 55341, PAGE 264

I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY AND THE LATEST PLANS AND DEEDS OF RECORD.

Mark J. Guerard Jr.

MARK J. GUERARD JR., PLS (MAJ 51815) DATE 03-14-2022
MCDERRIDG@FELDMAN.COM



03-14-2022 ADDED WETLAND SERIES 'G' AND 'H'

EXISTING CONDITIONS PLAN
443-461 CHIEF JUSTICE CUSHING HIGHWAY
SCITUATE, MASS.

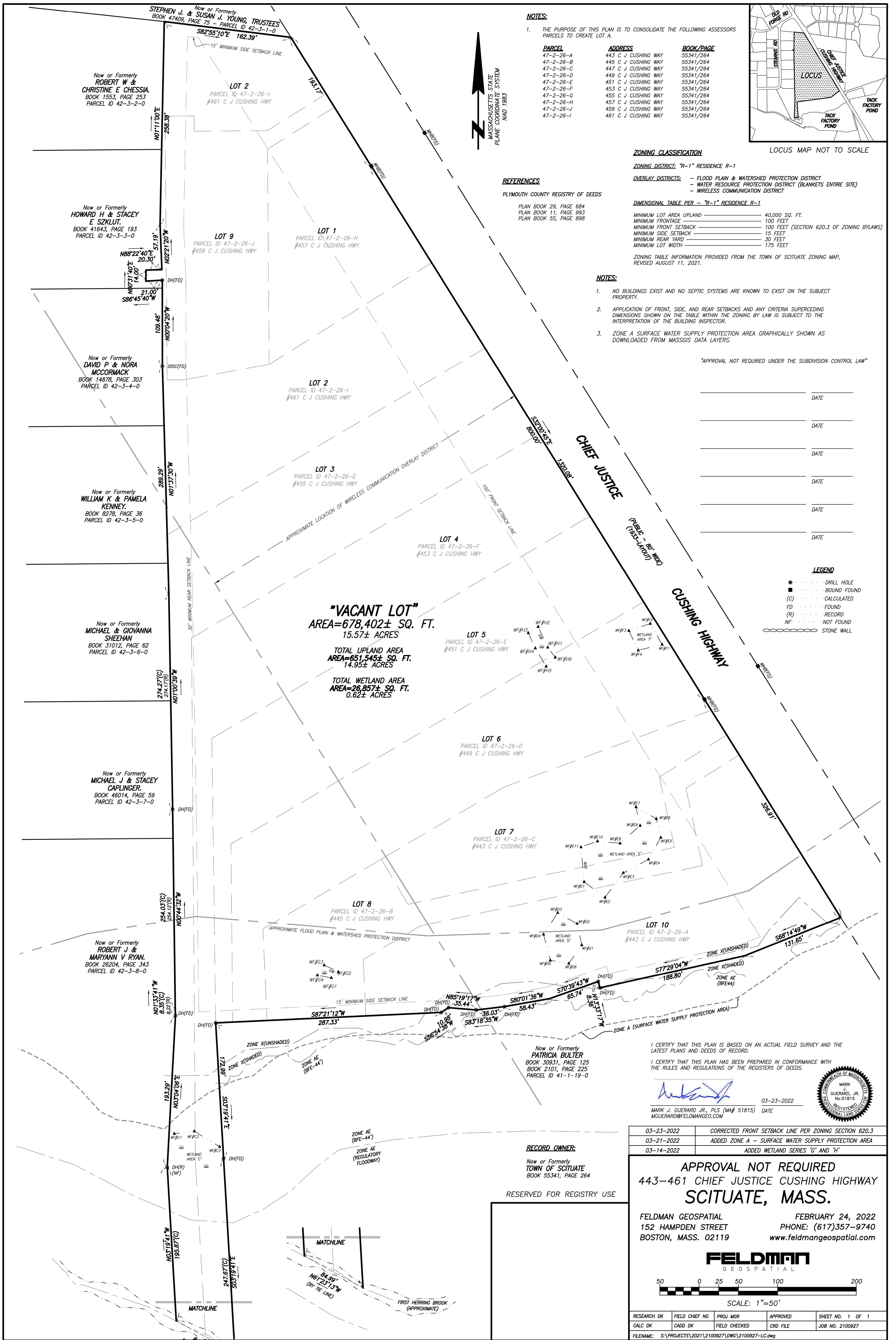
FELDMAN LAND SURVEYORS DECEMBER 9, 2021
152 HAMPDEN STREET PHONE: (617)357-9740
BOSTON, MASS. 02119 www.feldmansurveyors.com

FELDMAN
LAND SURVEYORS

SCALE: 1"=40'

40 0 20 40 80 120

RESEARCH	FIELD CHIEF	PROJ. MGR.	APPROVED	SHEET NO. 1 OF 1
CALC.	DRAW	FIELD CHECKED	ORD. FILE 210927	JOB NO. 210927
FILENAME: S:\PROJECTS\2021\210927\DWG\210927-EC.dwg				



NOTES:

- THE PURPOSE OF THIS PLAN IS TO CONSOLIDATE THE FOLLOWING ASSESSORS PARCELS TO CREATE LOT A.

PARCEL	ADDRESS	BOOK/PAGE
47-2-26-A	443 C J CUSHING WAY	55341/264
47-2-26-B	445 C J CUSHING WAY	55341/264
47-2-26-C	447 C J CUSHING WAY	55341/264
47-2-26-D	449 C J CUSHING WAY	55341/264
47-2-26-E	451 C J CUSHING WAY	55341/264
47-2-26-F	453 C J CUSHING WAY	55341/264
47-2-26-G	455 C J CUSHING WAY	55341/264
47-2-26-H	457 C J CUSHING WAY	55341/264
47-2-26-J	459 C J CUSHING WAY	55341/264
47-2-26-I	461 C J CUSHING WAY	55341/264

REFERENCES

PLYMOUTH COUNTY REGISTRY OF DEEDS
 PLAN BOOK 29, PAGE 684
 PLAN BOOK 11, PAGE 993
 PLAN BOOK 55, PAGE 898

ZONING CLASSIFICATION

ZONING DISTRICT: "R-1" RESIDENCE R-1

- OVERLAY DISTRICTS:**
- FLOOD PLAIN & WATERSHED PROTECTION DISTRICT
 - WATER RESOURCE PROTECTION DISTRICT (BLANKETS ENTIRE SITE)
 - WIRELESS COMMUNICATION DISTRICT

DIMENSIONAL TABLE PER - "R-1" RESIDENCE R-1

MINIMUM LOT AREA UPLAND	40,000 SQ. FT.
MINIMUM FRONTAGE	100 FEET
MINIMUM FRONT SETBACK	100 FEET (SECTION 620.3 OF ZONING BYLAWS)
MINIMUM SIDE SETBACK	15 FEET
MINIMUM REAR YARD	30 FEET
MINIMUM LOT WIDTH	175 FEET

ZONING TABLE INFORMATION PROVIDED FROM THE TOWN OF SCITUATE ZONING MAP, REVISED AUGUST 11, 2021.

NOTES:

- NO BUILDINGS EXIST AND NO SEPTIC SYSTEMS ARE KNOWN TO EXIST ON THE SUBJECT PROPERTY.
- APPLICATION OF FRONT, SIDE, AND REAR SETBACKS AND ANY CRITERIA SUPERCEDING DIMENSIONS SHOWN ON THE TABLE WITHIN THE ZONING BY LAW IS SUBJECT TO THE INTERPRETATION OF THE BUILDING INSPECTOR.
- ZONE A SURFACE WATER SUPPLY PROTECTION AREA GRAPHICALLY SHOWN AS DOWNLOADED FROM MASSGIS DATA LAYERS.

"APPROVAL NOT REQUIRED UNDER THE SUBDIVISION CONTROL LAW"

_____	DATE
_____	DATE
_____	DATE
_____	DATE
_____	DATE
_____	DATE
_____	DATE

LEGEND

- DRILL HOLE
- BOUND FOUND
- (C) CALCULATED
- FD FOUND
- (R) RECORD
- NF NOT FOUND
- STONE WALL

"VACANT LOT"
 AREA=678,402± SQ. FT.
 15.57± ACRES
 TOTAL UPLAND AREA
 AREA=651,545± SQ. FT.
 14.95± ACRES
 TOTAL WETLAND AREA
 AREA=26,857± SQ. FT.
 0.62± ACRES

I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY AND THE LATEST PLANS AND DEEDS OF RECORD.

I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

Mark J. Guerrard, Jr.
 MARK J. GUERRARD JR., PLS (MA# 51815) DATE 03-23-2022
 MQUERRARD@FELDMANGE.COM



RECORD OWNER:

Now or Formerly
 TOWN OF SCITUATE
 BOOK 55341, PAGE 264

RESERVED FOR REGISTRY USE

03-23-2022	CORRECTED FRONT SETBACK LINE PER ZONING SECTION 620.3
03-21-2022	ADDED ZONE A - SURFACE WATER SUPPLY PROTECTION AREA
03-14-2022	ADDED WETLAND SERIES 'G' AND 'H'

APPROVAL NOT REQUIRED
 443-461 CHIEF JUSTICE CUSHING HIGHWAY
 SCITUATE, MASS.

FELDMAN GEOSPATIAL FEBRUARY 24, 2022
 152 HAMPDEN STREET PHONE: (617)357-9740
 BOSTON, MASS. 02119 www.feldmangeospatial.com

FELDMAN
 GEOSPATIAL



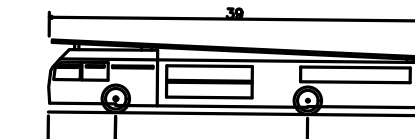
RESEARCH DK	FIELD CHIEF NG	PROJ MGR	APPROVED	SHEET NO. 1 OF 1
CALC DK	CADD DK	FIELD CHECKED	CRD FILE	JOB NO. 2100927
FILENAME: S:\PROJECTS\2021\2100927\DWG\2100927-LC.dwg				



**Woodard
& Curran**

250 Royall Street Suite 200E
Canton, Massachusetts 02021
800.446.5518 | www.woodardcurran.com

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Aerial Fire Truck
Overall Length 39.00ft
Overall Width 8.16ft
Overall Body Height 7.99ft
Min Body Ground Clearance 0.96ft
Track Width 8.16ft
Lock-to-lock time 0.00s
Max Wheel Angle 45.00°

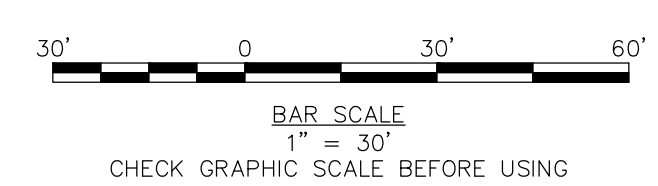
PROPOSED STEARNS MEADOW WATER TREATMENT PLANT
BUILDING FOOTPRINT = 35,000± SQUARE FEET

CHIEF JUSTICE CUSHING HIGHWAY
(PUBLIC - 80' WIDE) (1933 - LAYOUT)

DOCTORS HILL DRIVE

Now or Formerly
TOWN OF SCITUATE
BOOK 20537, PAGE 165
PARCEL ID 43-1-12-A
#0 C J CUSHING HWY

Now or Formerly
TERESA G. BEATTY, TRUSTEE
BOOK 23366, PAGE 13
PARCEL ID 43-2-32-0
#4 DOCTORS HILL DRIVE



ISSUE FOR PERMIT

CLIENT INFO:
TOWN OF SCITUATE,
MASSACHUSETTS
453 CHIEF JUSTICE
CUSHING HIGHWAY

STEARNS MEADOW
DRINKING WATER
TREATMENT PLANT

REV	MM/DD/YY	DESCRIPTION

JOB NO: 0233681.02
DATE: AUGUST 10, 2023
SCALE: AS SHOWN
DESIGNED BY: JC
DRAWN BY: MB
CHECKED BY: SK/KM
FILENAME: 0233681.02 V-XXX.dwg

**VEHICLE TURNING PLAN
(FIRE TRUCK)**

DRAWING NO:
V-102

\\woodardcurran.net\shared\Projects\0233681.02 V-XXX.dwg - design\wp\Drawings\Civil\PERMITTING\0233681.02 V-XXX.dwg - Aug 09, 2023 - 6:56pm MBROWN