

WATER SPECIFICATIONS

RESILIENT SEATED WEDGE GATE VALVES
 a. VALVES SHALL BE IRON BODY, BL-DIRECTIONAL, RESILIENT TYPE, DESIGNED FOR 200 PSI WORKING PRESSURE AND CONFORM TO THE LATEST REVISION OF AWWA C-509-87.
 b. VALVES SHALL HAVE O RING SEALS, NON-RISING SEAM AND 2" OPERATING VALVES SHALL OPEN LEFT.
 c. VALVES SHALL HAVE MECHANICAL JOINT END, UNLESS OTHERWISE NOTED.
 d. VALVES INTERIORS AND EXTERIORS SHALL BE EPOXY COATED IN ACCORDANCE WITH AWWA SPECIFICATION C-550.
 e. VALVES SHALL BE AS MANUFACTURED MUELLER, CLOW OR AMERICAN DARLING.

VALVE BOXES
 a. VALVE BOXES SHALL BE CAST IRON, TOR COATED, TELESCOPING HEAVY POHERN TYPE, CONSISTING OF FLANGED BOTTOM, FLANGED TOP AND COVER WITH THE WORD "WATER" COST IN THE COVER.

FITTINGS
 a. FITTINGS SHALL BE FULL FLOW, COMPACT SIZE CONFORMING TO THE LATEST REVISION OF AWWA SPECIFICATION C-153 AND HAVE A WORKING PRESSURE RATING OF 200 PSI.
 b. UNLESS OTHERWISE APPROVED, ALL FITTINGS SHALL HOVE MECHANICAL JOINT ENDS WITH APPROPRIATE GLANDS, GASKETS, NUTS, BOLTS AND ACCESSORIES.
 A. RESTRAINED JOINTS FOR MECHANICAL JOINT FITTINGS SHALL BE MECHANICAL AS MANUFACTURED BY EBBA IRON CO.

DUCTILE IRON
 a. ALL DUCTILE IRON PIPE SHALL BE DESIGNED IN ACCORDANCE WITH ANS A21.50 AND MANUFACTURED IN ACCORDANCE WITH ANS A21.51.
 b. ALL DUCTILE IRON PIPE SHALL BE CEMENT LINED CLASS 52 WITH AN EXTERIOR TAR COAT IN ACCORDANCE WITH ANS 21.50/SAWMA C150/AWWA C111.
 c. ALL DUCTILE IRON PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH ANS A21.4.
 d. ALL PIPE JOINTS SHALL BE OF THE BELL SPIGOT TYPE.

METALLIC INDICATOR TAPE
 a. METALLIC INDICATOR LOPE WITH "CAUTION WATER MAIN BURIED BELOW" SHALL BE PLACED IN TRENCH 1' FROM FINAL GRADE.

CORPORATION STOP
 a. THE CORPORATION STOP SHALL BE OF OLL BRONZE CONSTRUCTIONS. THE INLET THREAD SHALL BE OF C.C. TYPE. OUTLET CONNECTIONS SHALL BE COMPRESSION SUITABLE FOR USE WITH TYPE K COPPER TUBING.
 B. FOR PURPOSES OF STANDARDIZATION, CORPORATION STOP SHALL BE MODEL F-1000CC & MANUFACTURED BY THE FORD METER BOX CO.,

CURB STOPS
 a. CURB STOPS SHALL BE OF ALL BRONZE CONSTRUCTION WITH A DRAIN AND INLET AND OUTLET COMPRESSION CONNECTION SUITABLE FOR USE WITH TYPE K COPPER TUBING. CURB STOPS SHALL OPEN LEFT.
 C. FOR PURPOSES OF STANDARDIZATION, THE CURB STOP SHALL BE MODEL NO. 244-4445 OS MANUFACTURED BY THE FORD METER BOX CO.

CURB BOX
 a. THE CURB BOX SHALL BE COST IRON TAR COATED TELESCOPING "ERIES" TYPE WITH ROD, CONSISTING OF A BOTTOM, TOP AND COVER SECURED BY C PENTAGON NUT.

SADDLES
 a. SADDLES FOR SERVICE CONNECTIONS SHALL BE ALL BRASS WITH A MINIMUM 1" CC OUTLET.
 b. FOR THE PURPOSES OF STANDARDIZATION, THE SADDLE SHALL BE MODEL 202-BS-1110X4CC AS MANUFACTURED BY THE FORD METER CO.

SERVICE CONNECTIONS
 a. ALL SERVICE CONNECTIONS SHALL CONSIST OF O SADDLE, CORPORATION STOP, CURB STOP, CURB BOX, COPPER TYPE K TUBING, STAINLESS STEEL INSERTS AND METALLIC INDICATOR TAPE.

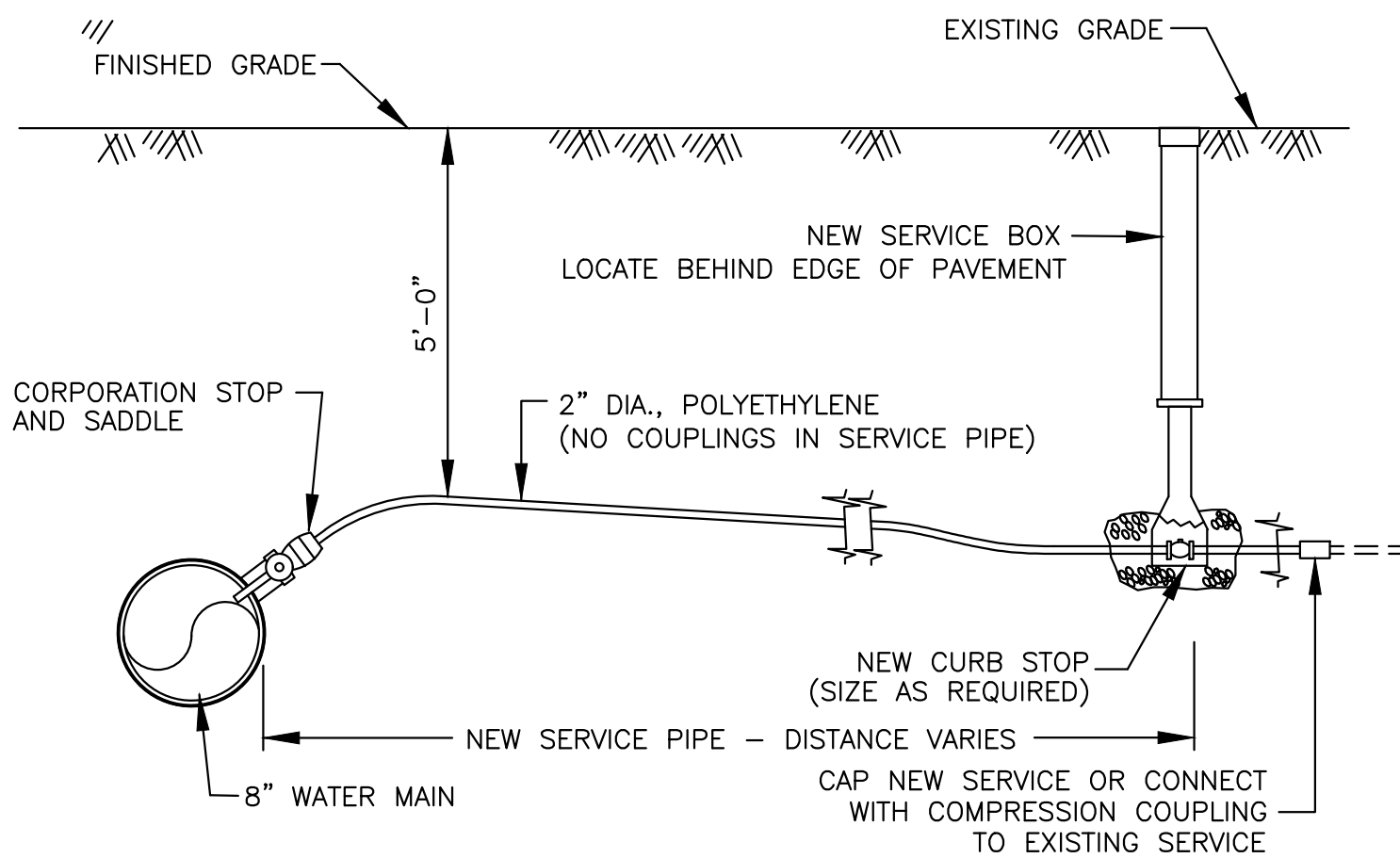
HYDRANTS
 a. ALL HYDRANTS SHALL BE THE MUELLER SUPER CENTURION.

METERS
 EACH UNIT WILL REQUIRE A 5/8" WATER METER.

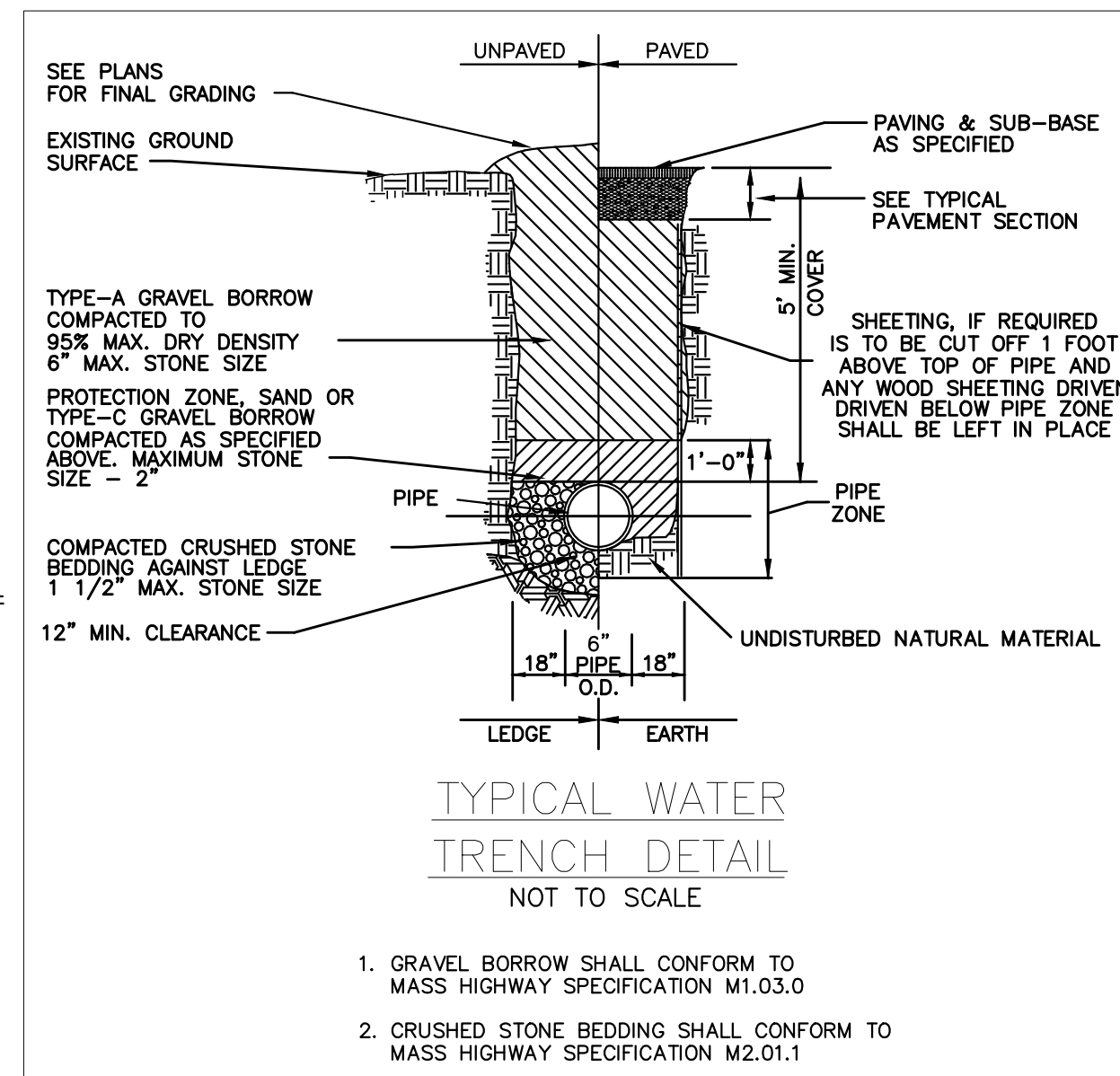
INSPECTION:
 CONTRACTOR TO COORDINATE INSPECTIONS OF ALL WATER SYSTEM COMPONENTS WITH THE TOWN OF SCITUATE WATER DEPARTMENT. FIRE FLOW TEST FOR FIRE SUPPRESSION SYSTEMS MUST BE CONDUCTED

WATER SUPPLY NOTES

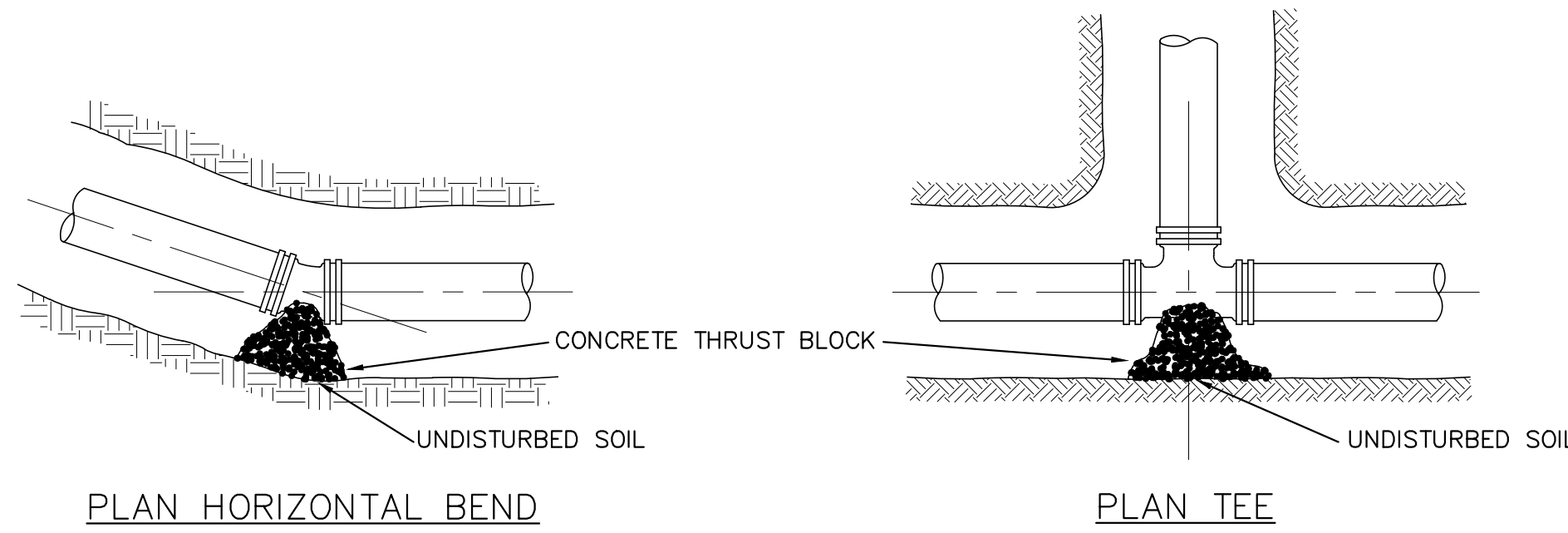
- THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER, OR APPURTENANCE THERETO WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER OR POLLUTED WATER INTO THE POTABLE SUPPLY.
- SEWER LINES MAY BE LAID CLOSER THAN 10 FEET TO A WATER MAIN PROVIDED THAT IT IS
 - LAID IN A SEPARATE TRENCH, AND
 - THE ELEVATION OF THE TOP(CROWN) OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM(INVERT) OF THE WATER MAIN.
- WHENEVER SEWERS MUST CROSS UNDER WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR RECONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
- WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF MECHANICAL JOINT CAST IRON PIPE AND SHALL BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS.



2" DOMESTIC WATER SERVICE DETAIL



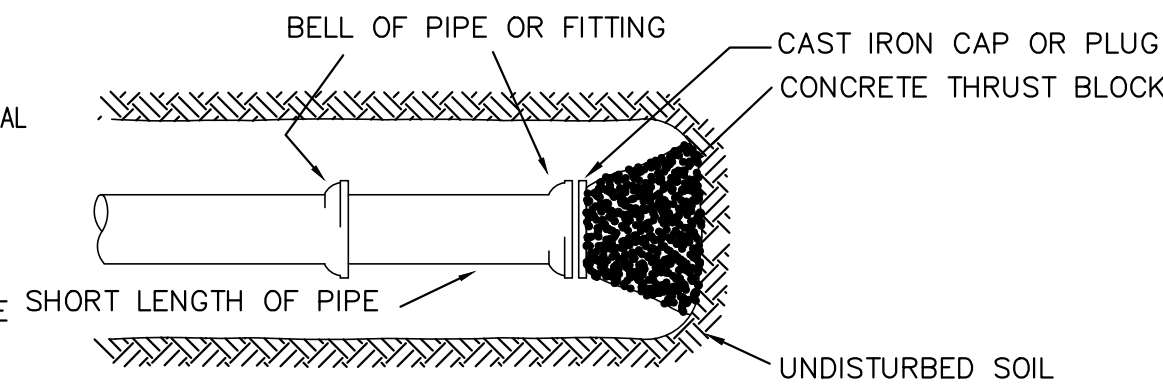
- GRAVEL BORROW SHALL CONFORM TO MASS HIGHWAY SPECIFICATION M1.03.0
- CRUSHED STONE BEDDING SHALL CONFORM TO MASS HIGHWAY SPECIFICATION M2.01.1



PLAN HORIZONTAL BEND

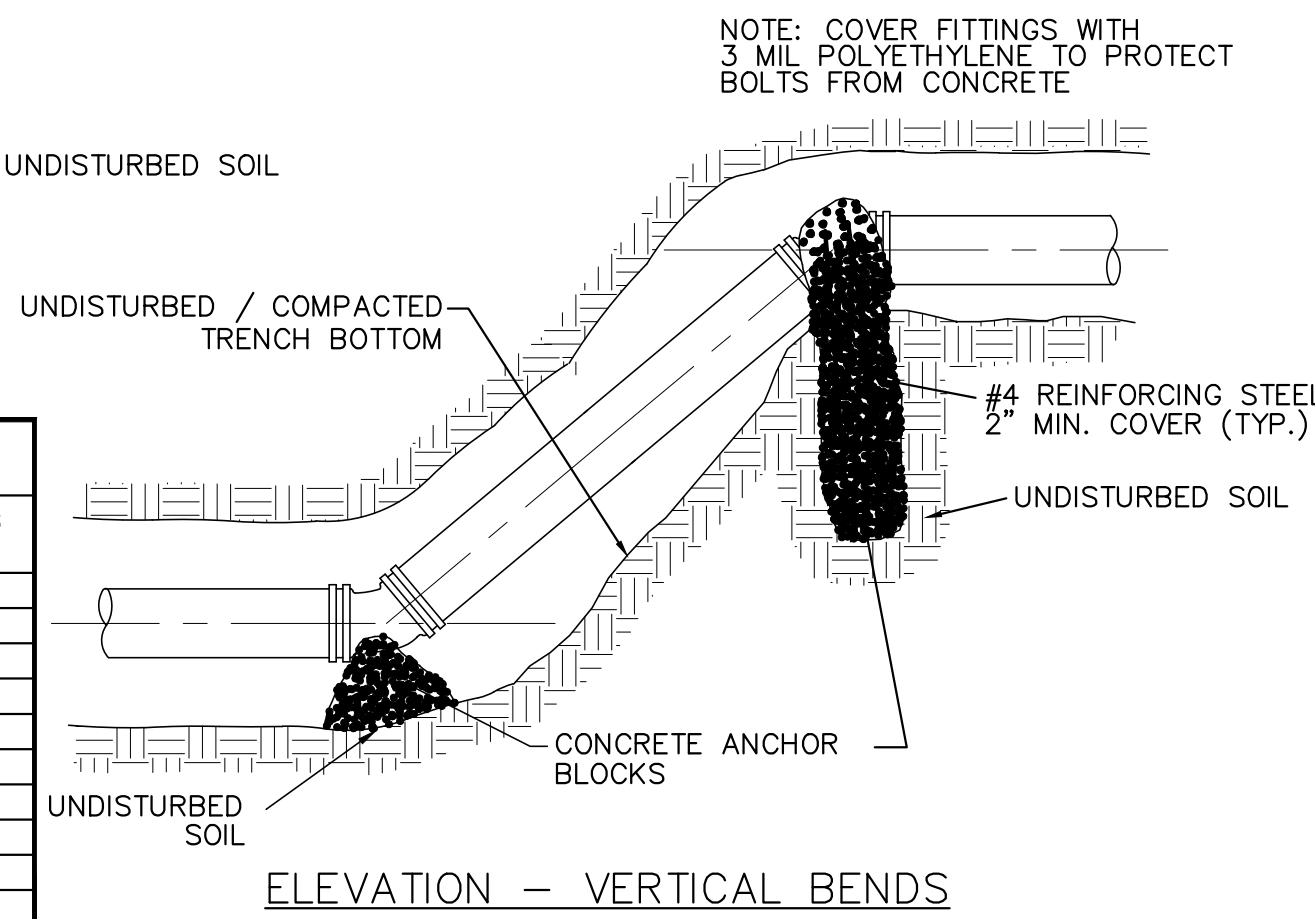
PLAN TEE

NOTE: COVER MECHANICAL JOINTS WITH 3 MIL POLYETHYLENE TO PROTECT BOLTS FROM CONCRETE THRUST BLOCK



PLAN PLUG END OF LINE

THRUST BLOCK REQUIREMENTS	
FITTING	MIN BEARING AREA (SF)
8" X 1/8 BEND	12
12" X 8" TEE	12
10" X 8" TEE	10
8" X 8" TEE	9
8" X 6" TEE	5
8" CAP / PLUG	12
12" X 8" REDUCER	8
10" X 8" REDUCER	6
8" X 6" REDUCER	4
8" X 22 1/2" & 45° BENDS	8
ALL TEES AND VALVES	10
HYDRANTS	9



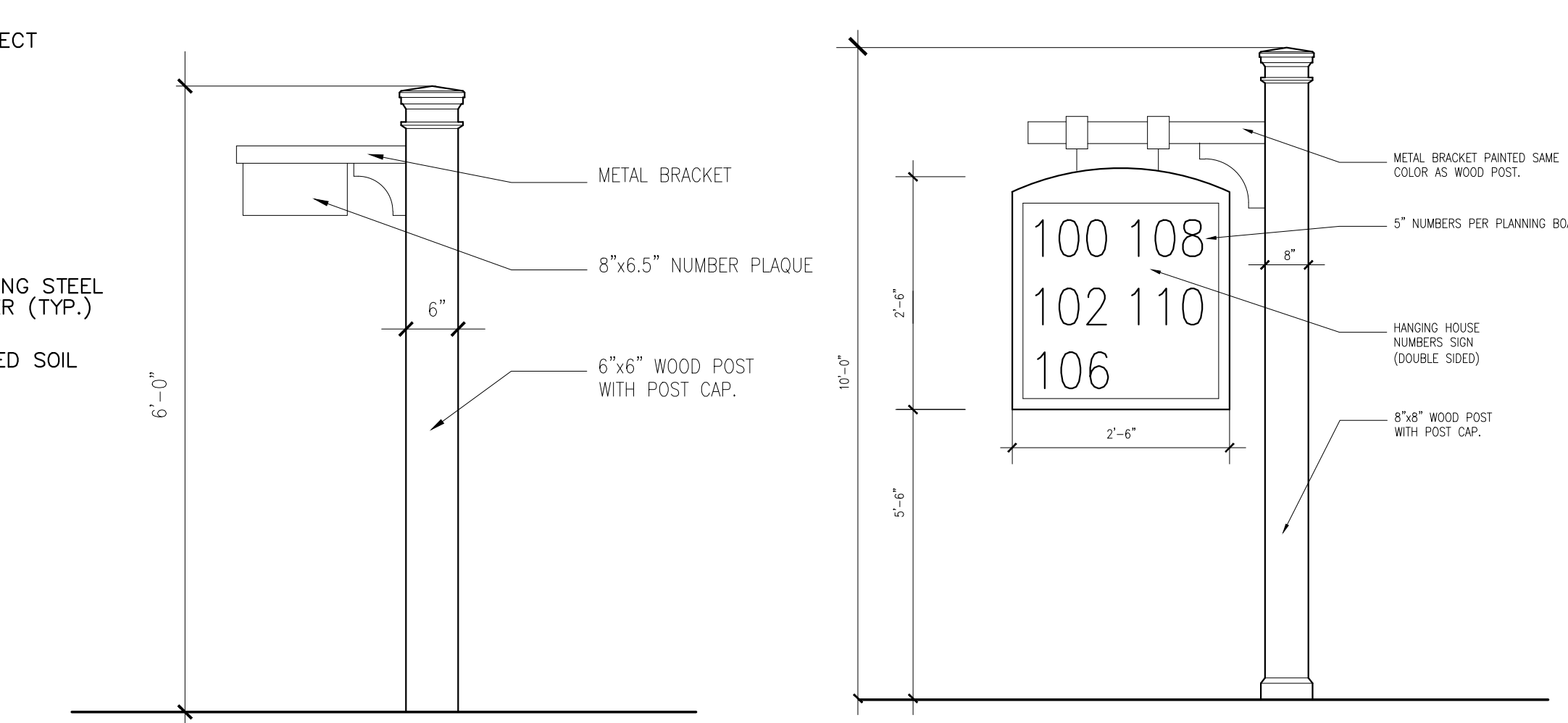
ELEVATION - VERTICAL BENDS

ANCHORAGE DETAILS

NOT TO SCALE

NUMBER PLATE / PLAQUE DETAIL (DRIVEWAY POST AND HOUSE)

N.T.S.

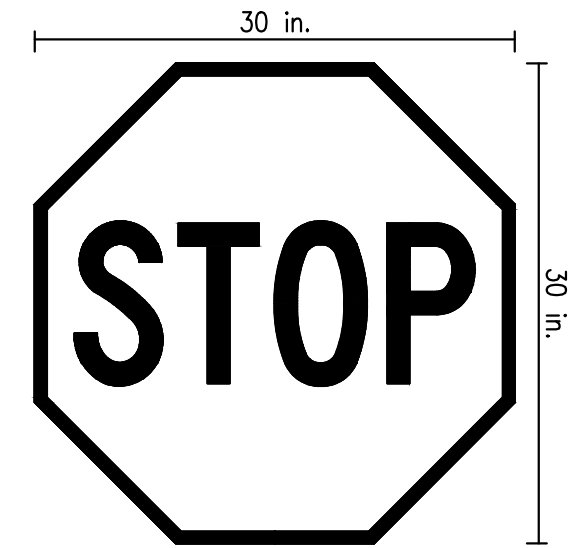


BUILDING POST

N.T.S.

HANGING DIRECTORY SIGN

N.T.S.



STOP SIGN SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITH THE EXCEPTION OF BEING DIAMOND SHAPE

12" WIDE X 12 FT LONG STOP LINE TO BE PLACED 4 FT IN ADVANCE OF NEAREST CROSSWALK.

IN THE ABSENCE OF MARKED CROSSWALK THE STOP LINE SHALL BE PLACED NO MORE THAN 30 FT NOR LESS THAN 4 FT FROM THE NEAREST EDGE OF THE INTERSECTING TRAVELED WAY.

STOP SIGN DETAIL

(NOT TO SCALE)

REVISIONS	
JUNE 19, 2023	RESPOND TO TEC PEER REVIEW COMMENTS
OCTOBER 10, 2023	REDUCE DENSITY RESPOND TO TEC REVIEW #2
OCTOBER 19, 2023	RESPOND TO CONSERVATION AND BOARD OF HEALTH COMMENTS
DECEMBER 14, 2023	RESPOND TO PLANNING BOARD AND PEER REVIEW COMMENTS

SITE PLAN
 COUNTRY WAY ESTATES
 # 817 COUNTRY WAY
 ASSESSORS PARCEL 12-2-38-F
 SCITUATE, MASSACHUSETTS

PREPARED FOR: OPTION C PROPERTIES L.L.C. FEBRUARY 2, 2023
 P.O. BOX 263 SCALE: AS NOTED
 WEYMOUTH, MA 02190 JOB No. 20-475

GRADY CONSULTING, L.L.C.

Civil Engineers, Land Surveyors & Landscape Architects
 71 Evergreen Street, Suite 1, Kingston, MA 02364
 Phone (781) 585-2300 Fax (781) 585-2378

DETAILS - WATER

FOR REGISTRY USE ONLY

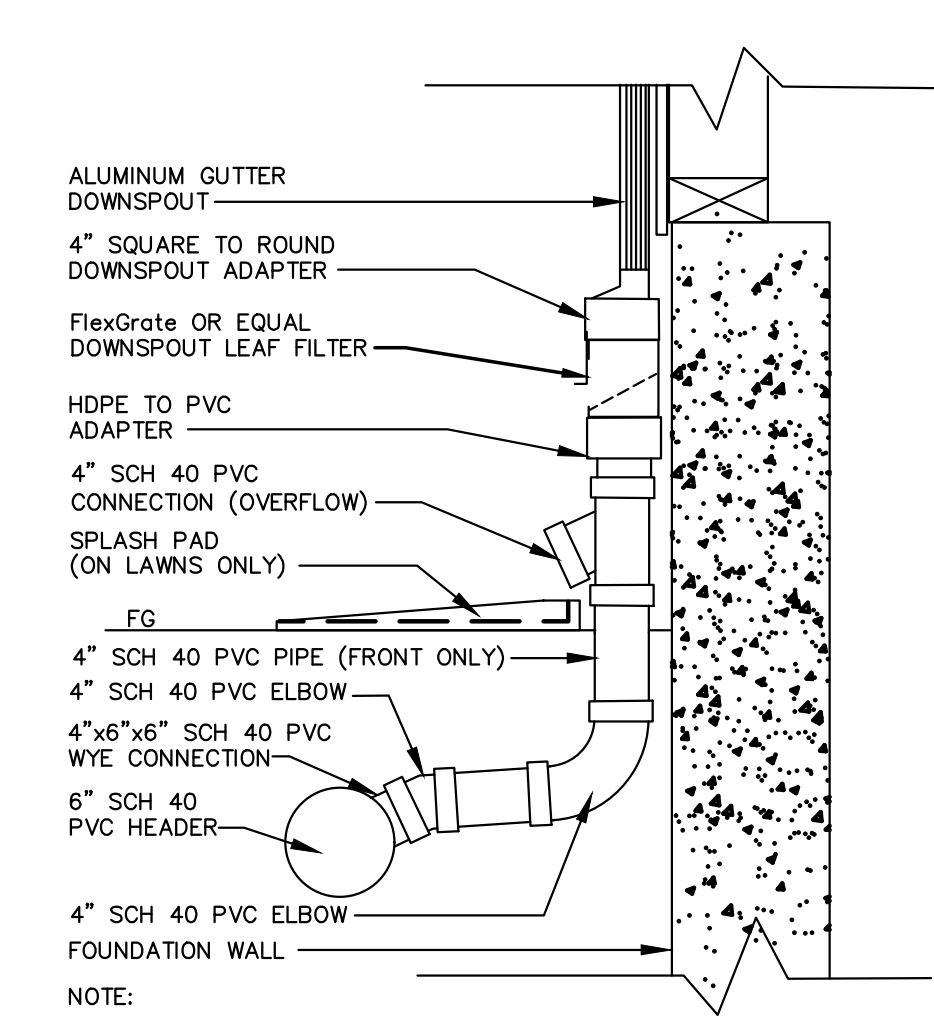
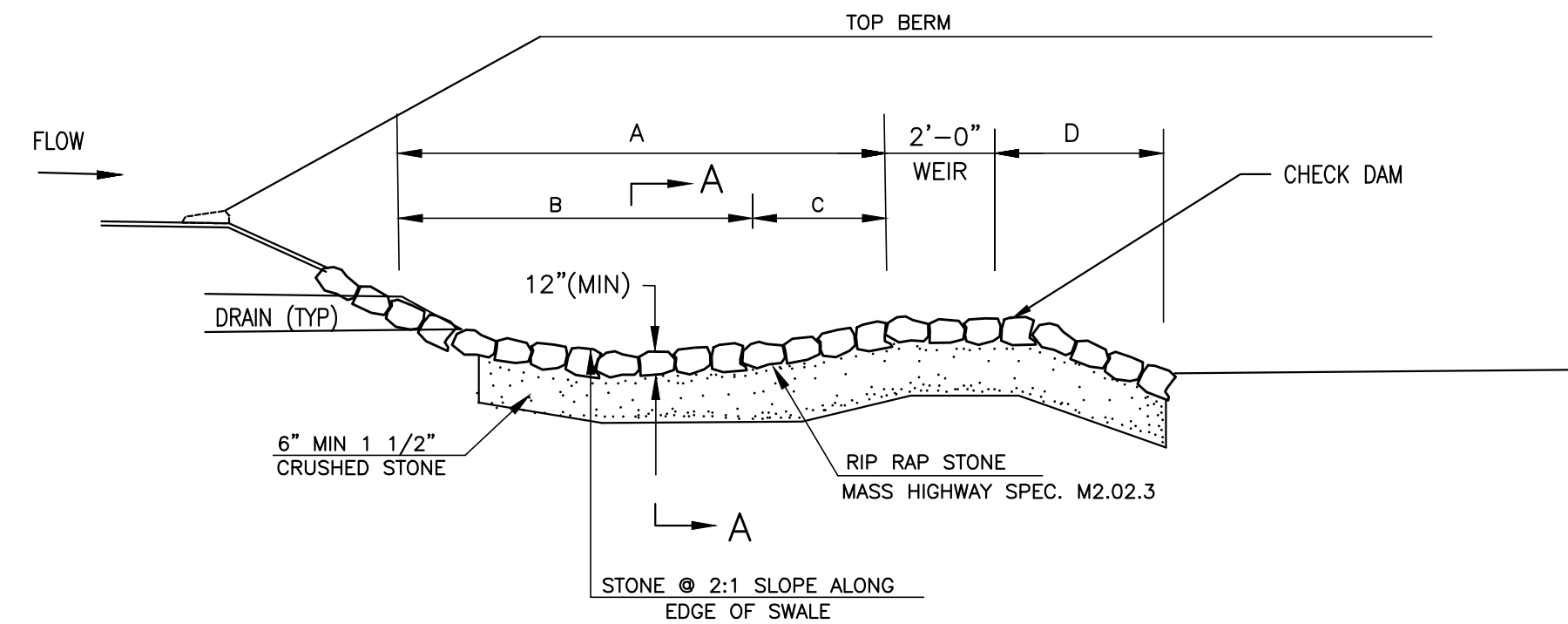
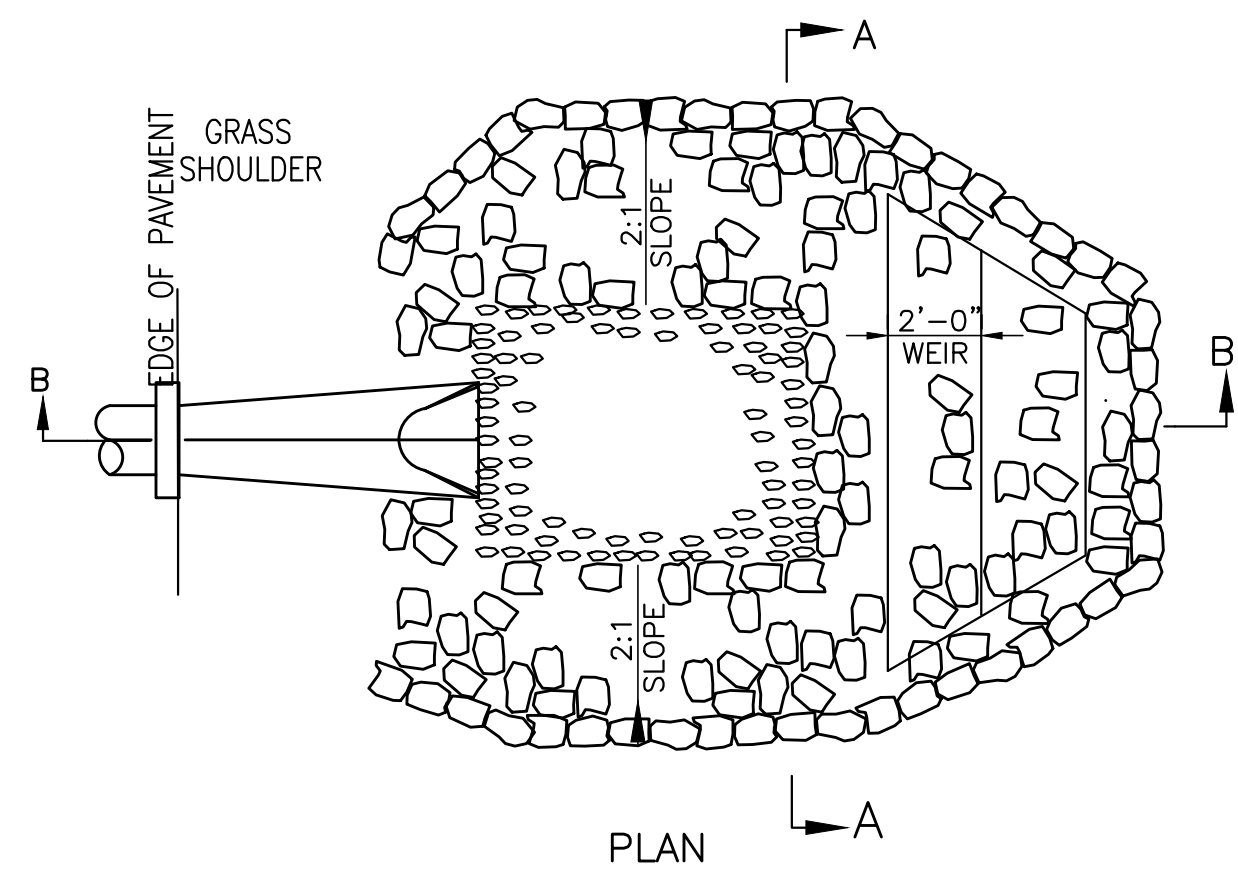
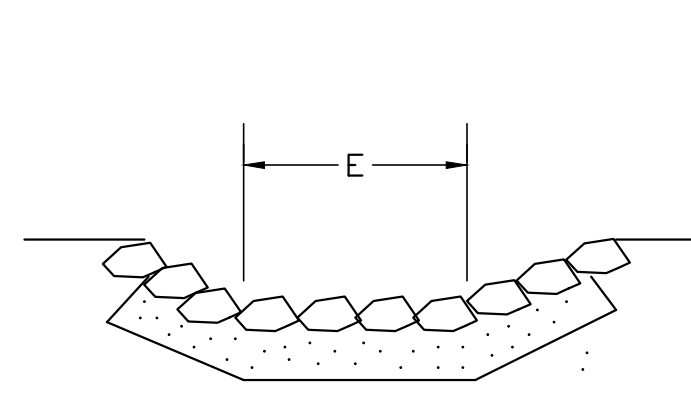
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

TIMOTHY R. BENNETT P.L.S. #36856 DATE _____

SITE PLAN APPROVED

DATE: _____

SCITUATE PLANNING BOARD



PIPE DIA.	12"	8"	6"
A	10'-0"	8'-0"	6'-0"
B	7'-6"	5'-6"	4'-6"
C	2'-6"	2'-6"	1'-6"
D	3'-0"	2'-0"	1'-0"
E	4'-0"	3'-0"	2'-6"

SECTION A-A
OUTLET PROTECTION
DETAIL
NOT TO SCALE

2 DOWN SPOUT CONNECTION
DETAIL
Scale: NONE

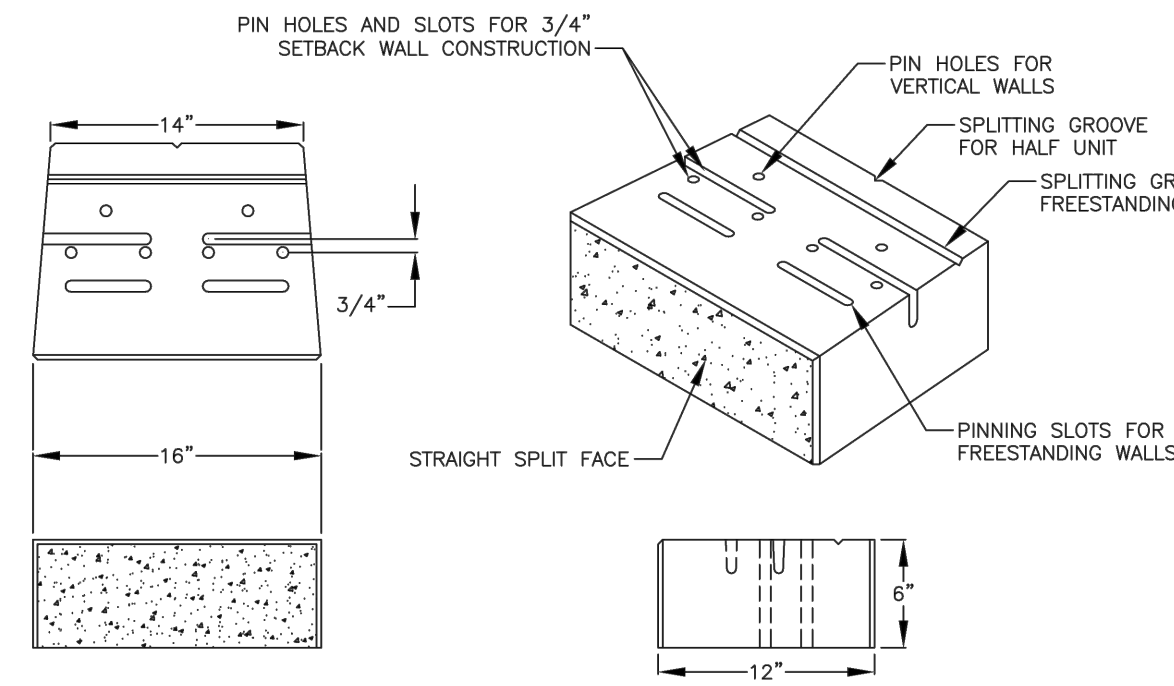
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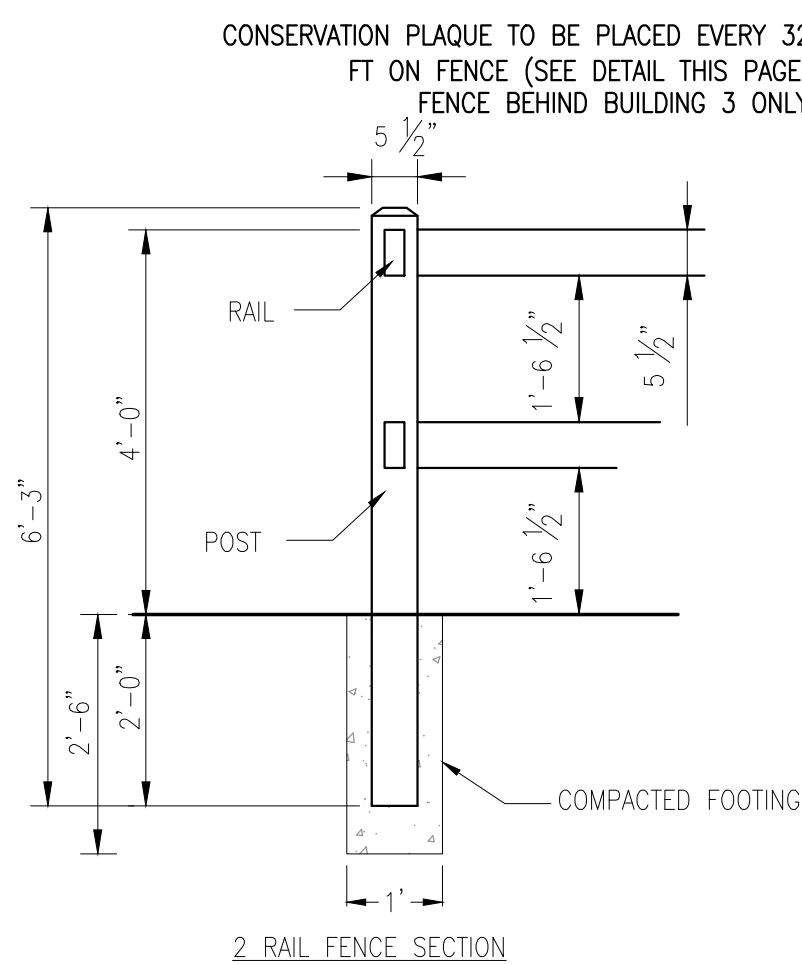
TIMOTHY R. BENNETT P.L.S. #36856 DATE

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DATE: _____

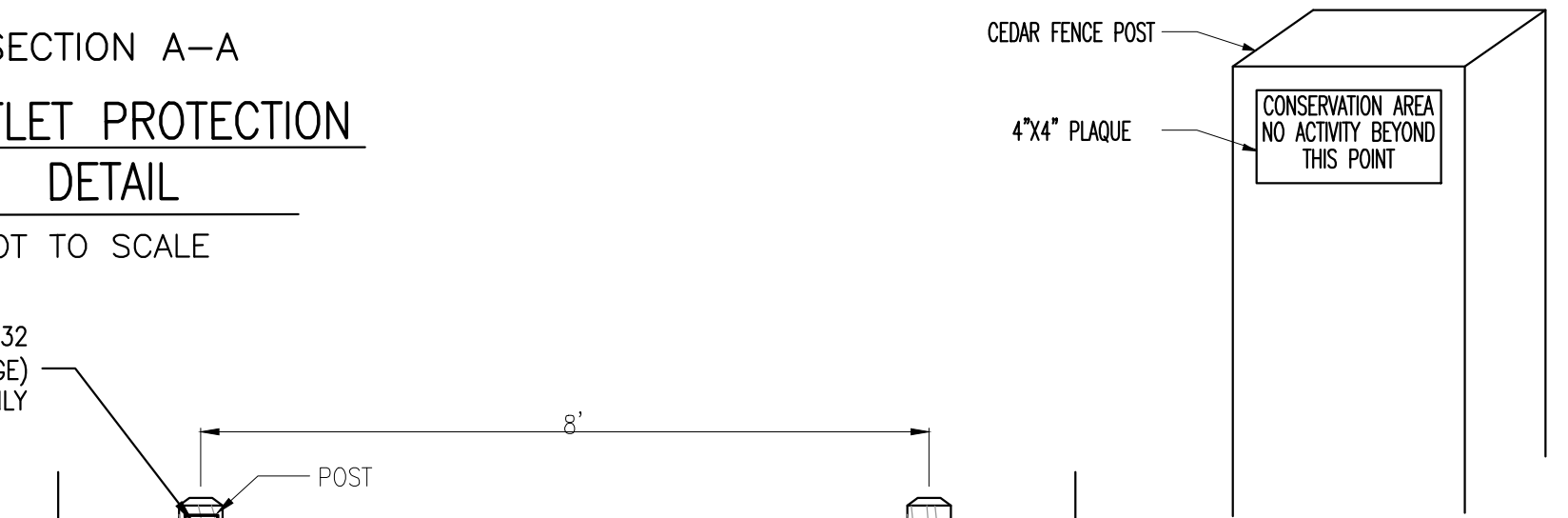
SCITUATE PLANNING BOARD



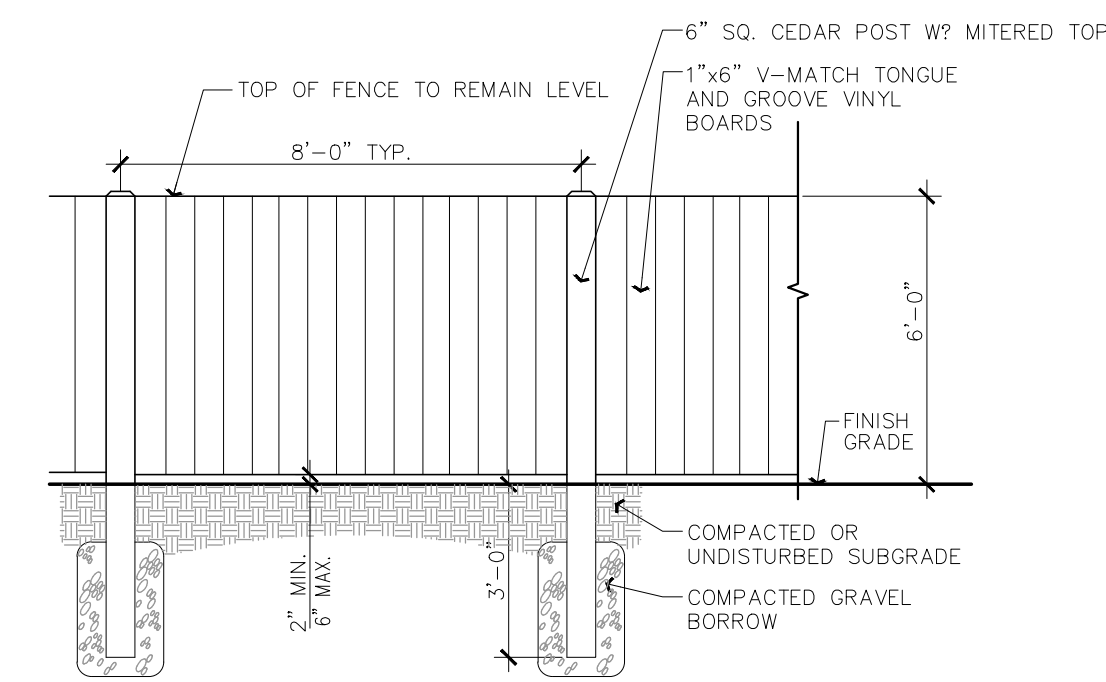
VERSA-LOK UNIT
UNIT DIMENSIONS
SCALE: NONE



SPLIT RAIL FENCE
DETAIL
N.T.S.



PLAQUES TO BE SET ON FENCE BEHIND BLD #3
CONSERVATION AREA
SIGN DETAIL
(NOT TO SCALE)



00 PRIVACY FENCE 6" CEDAR
1/2" = 1'-0"
DETAIL-FILE

THESE PRELIMINARY DETAILS ARE INTENDED AS AN AID IN DESIGNING ATTRACTIVE, DURABLE RETAINING WALLS WITH VERSA-LOK UNITS. FINAL DETERMINATION OF THE SUITABILITY OF ANY INFORMATION OR MATERIAL FOR THE USE CONTAINED HEREIN, AND ITS MANNER OF USE, IS THE SOLE RESPONSIBILITY OF THE USER. A FINAL PROJECT SPECIFIC DESIGN SHOULD BE PREPARED BY A QUALIFIED, LICENSED, PROFESSIONAL ENGINEER.

VERSA-LOK®
Retaining Wall Systems
Solid Solutions™

VERSA-LOK STANDARD DETAILS

DATE	1/2024
BY	TEC
CHECKED BY	TEC
SCALE	AS NOTED
PROJECT	02364
DATE	02/2023
BY	TEC
CHECKED BY	TEC
SCALE	AS NOTED
PROJECT	02364

STANDARD UNIT

TYPICAL SECTION—UNREINFORCED RETAINING WALL
SCALE: NONE

VERSA-LOK STANDARD DETAILS

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PROJECT	02364
DATE	02/2023
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SCALE	AS NOTED
PROJECT	02364

UNREINFORCED SECTION

STEPPING BASE DETAIL
SCALE: NONE

VERSA-LOK STANDARD DETAILS

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PROJECT	02364
DATE	02/2023
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SCALE	AS NOTED
PROJECT	02364

STEPPING BASE

TYPICAL SECTION—REINFORCED RETAINING WALL
SCALE: NONE

VERSA-LOK STANDARD DETAILS

DATE	1/2024
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REINFORCED TYPICAL SECTION

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SITE PLAN
COUNTRY WAY ESTATES
817 COUNTRY WAY
ASSESSORS PARCEL 12-2-38-F
SCITUATE, MASSACHUSETTS

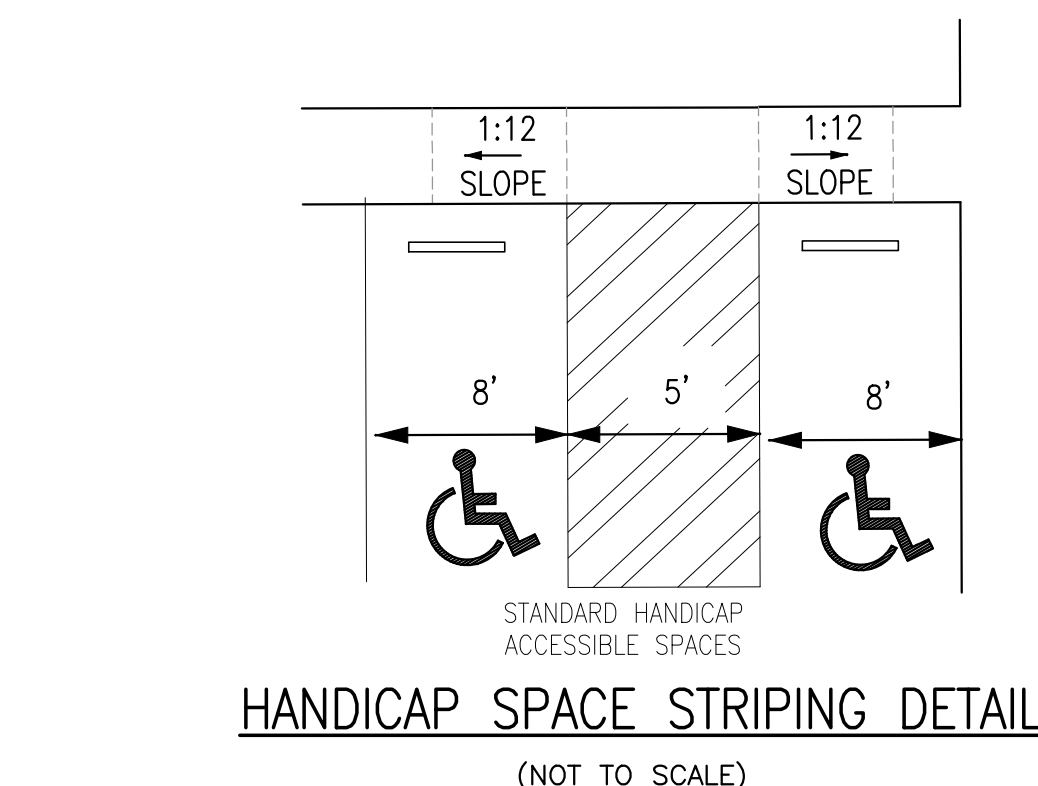
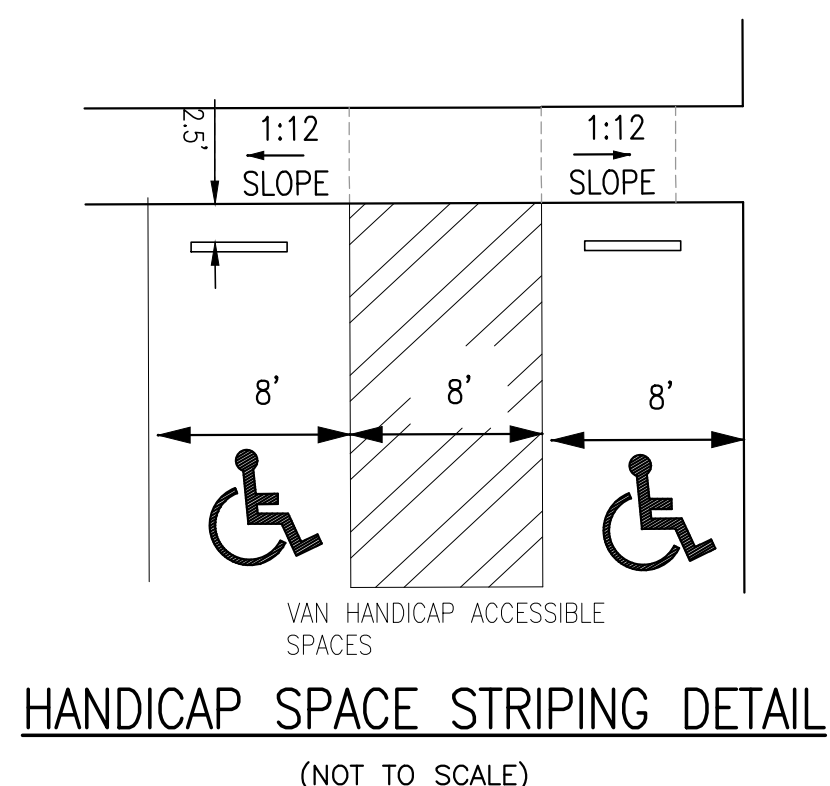
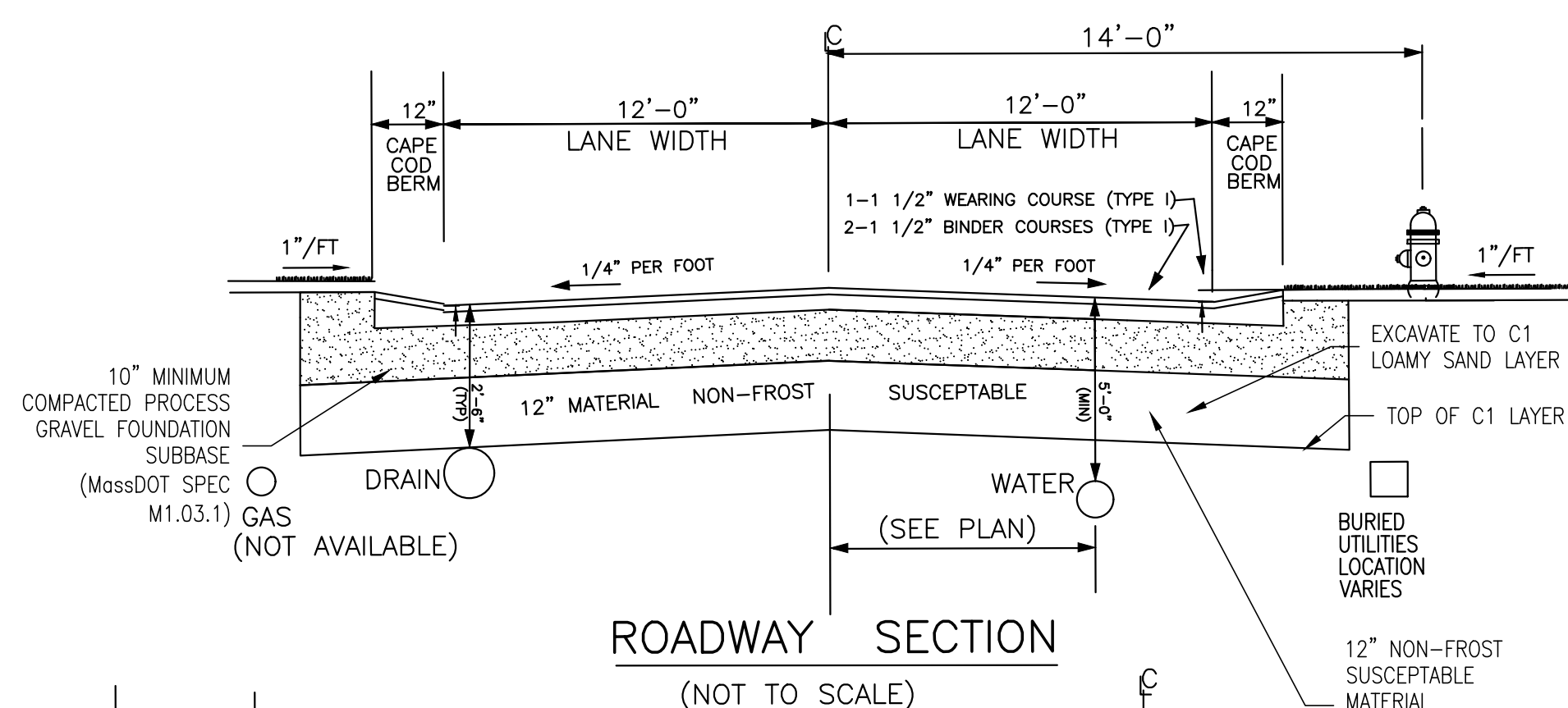
PREPARED FOR: FEBRUARY 2, 2023
OPTION C PROPERTIES L.L.C. SCALE: AS NOTED
P.O. BOX 263, JOB No. 20-475
WEYMOUTH, MA 02190

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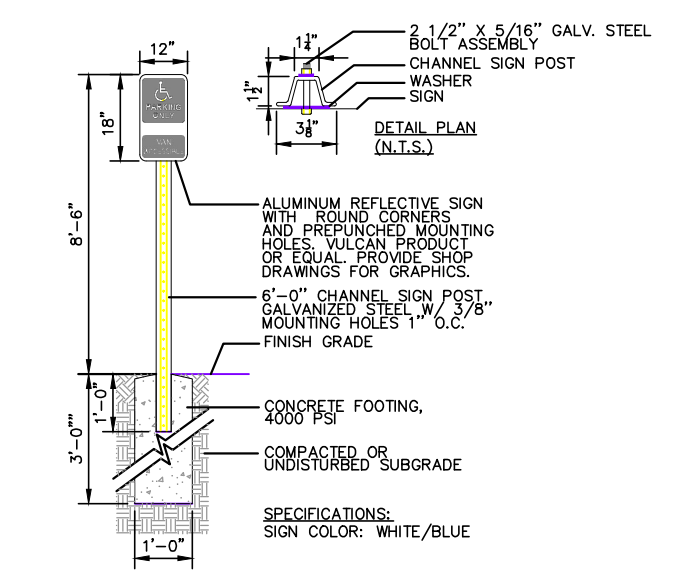
- NOTES:
- STRUCTURAL DESIGN BY OTHERS
 - WALL SUBSTITUTIONS ALLOWED WITH APPROVAL FROM SITE ENGINEER.

RETAINING WALL DETAIL
NOT TO SCALE

DETAILS - SITE



1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 2% (2%MIN)
2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMP SHALL BE 5%
3. BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING
4. BROOM FINISH SURFACE AT RIGHT ANGLES TO DIRECTION OF TRAVEL
5. EACH SPACE TO HAVE A SIGN DESIGNATING AN ACCESSIBLE SPACE ONE OF WHICH SHALL BE "VAN ACCESSIBLE" (521 CMR 23.6)
6. ALL SIGNS AND PAVEMENT MARKINGS TO BE INSTALLED WITHIN THE PROJECT SITE SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WHERE APPLICABLE.



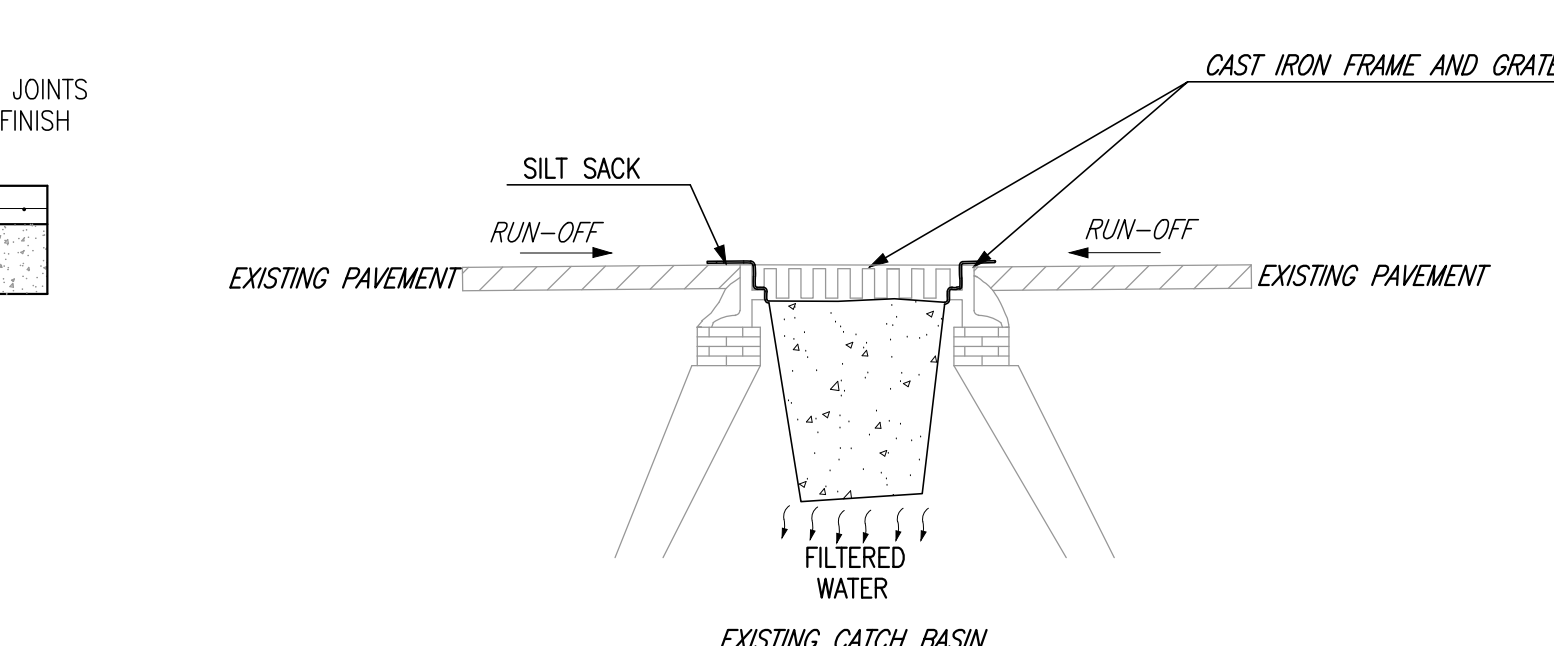
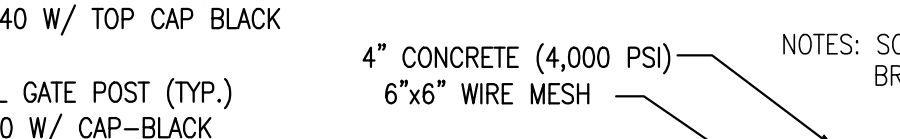
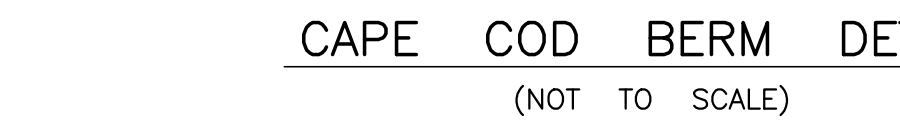
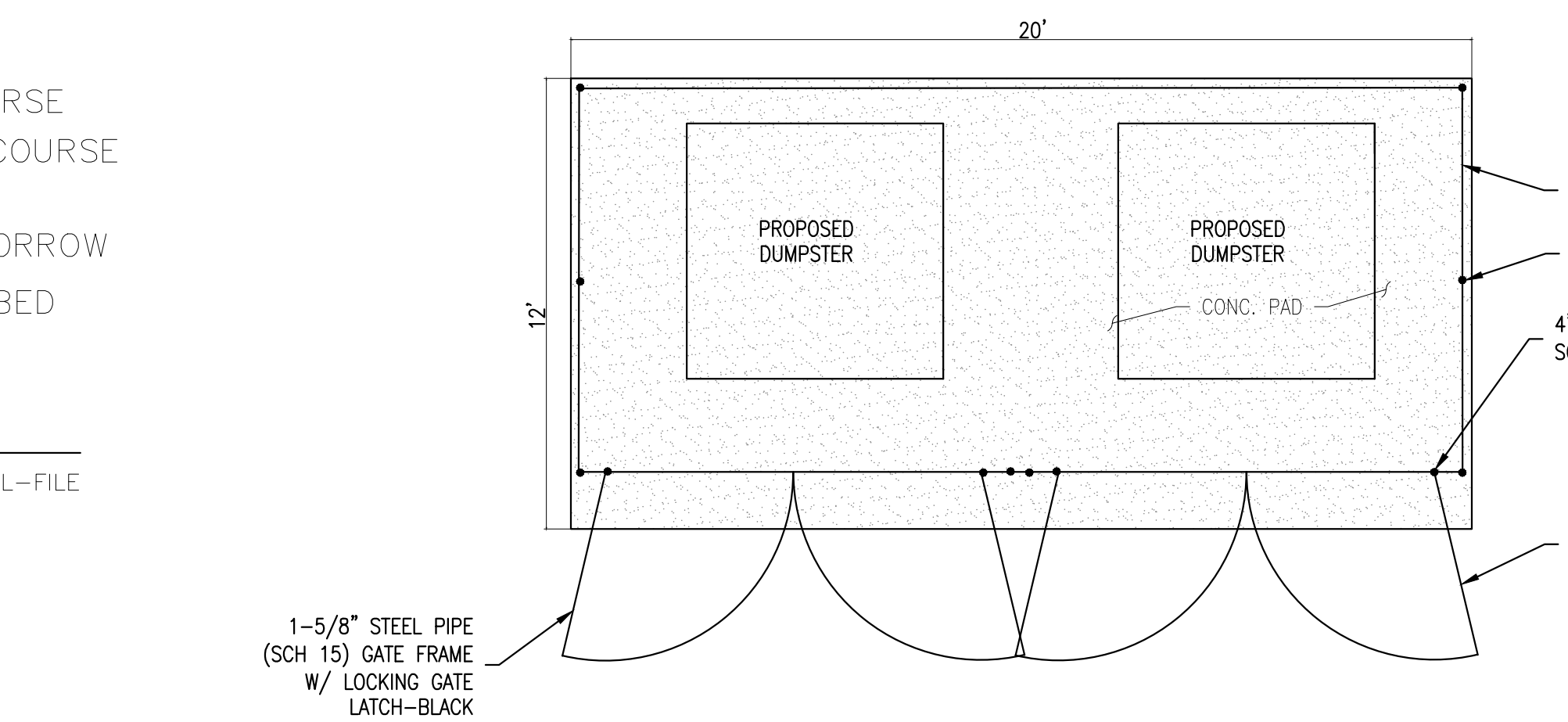
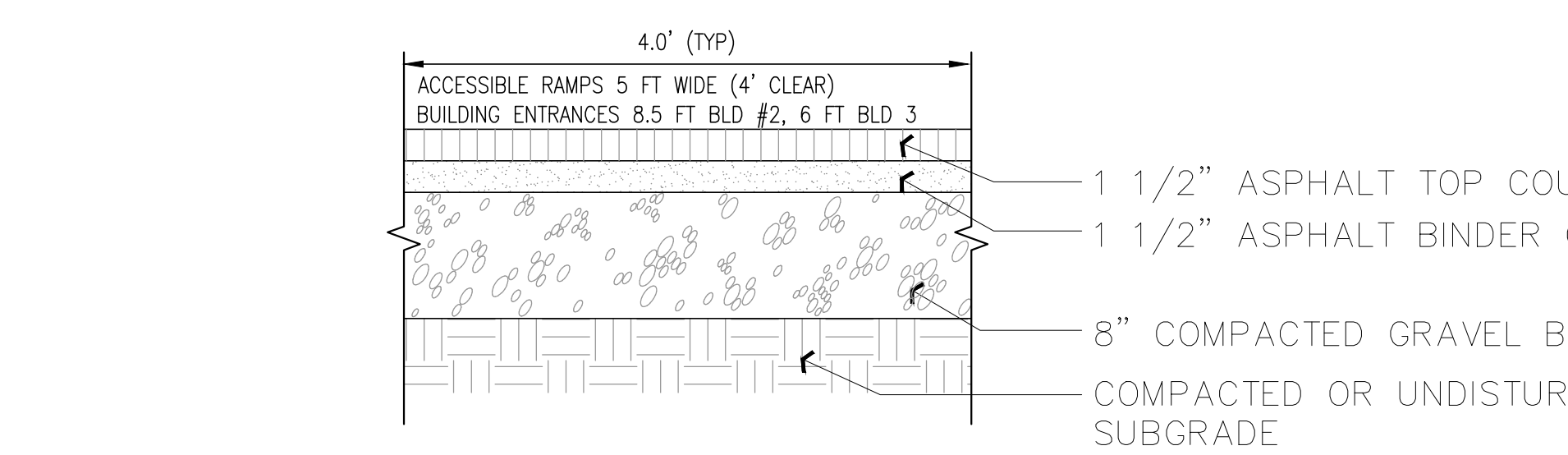
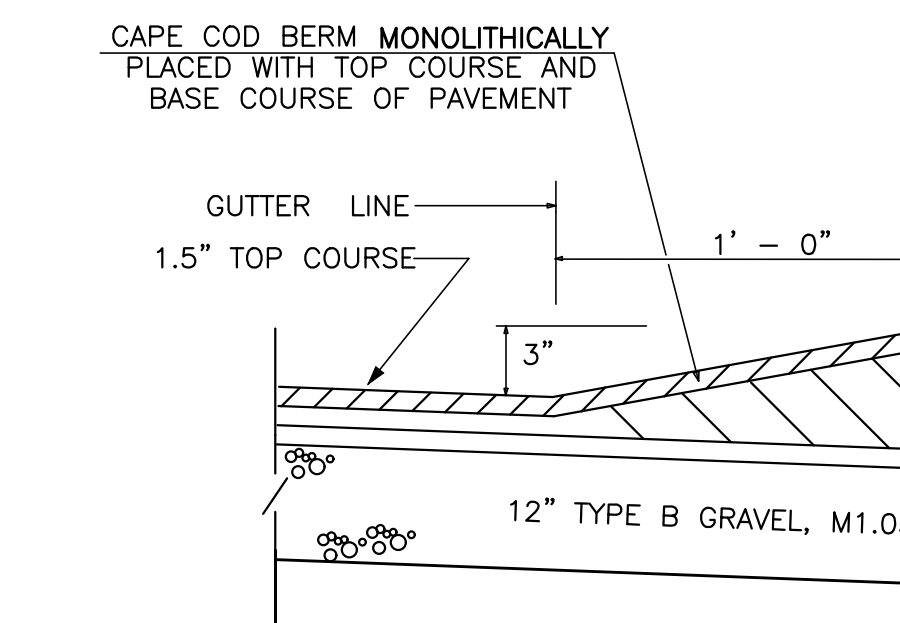
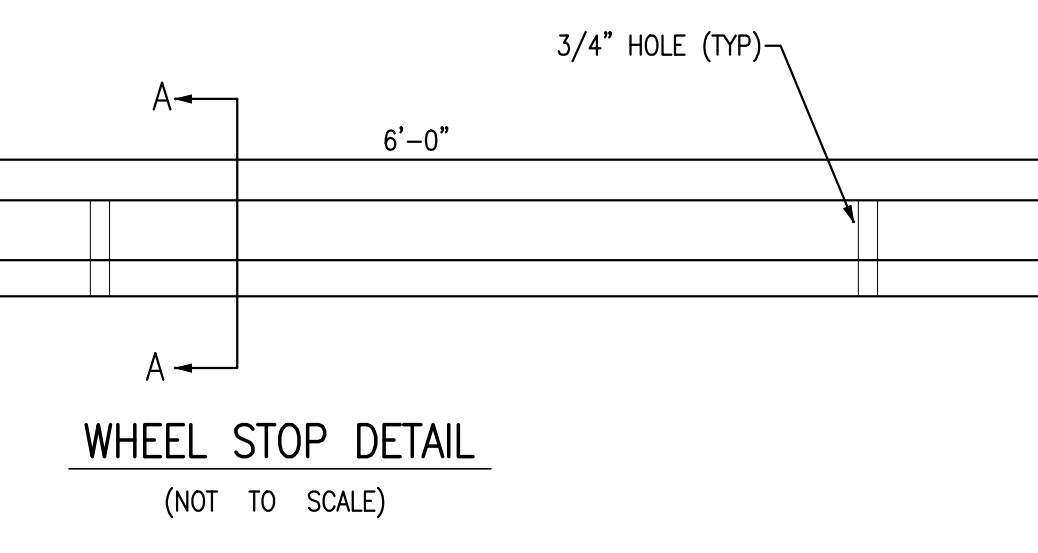
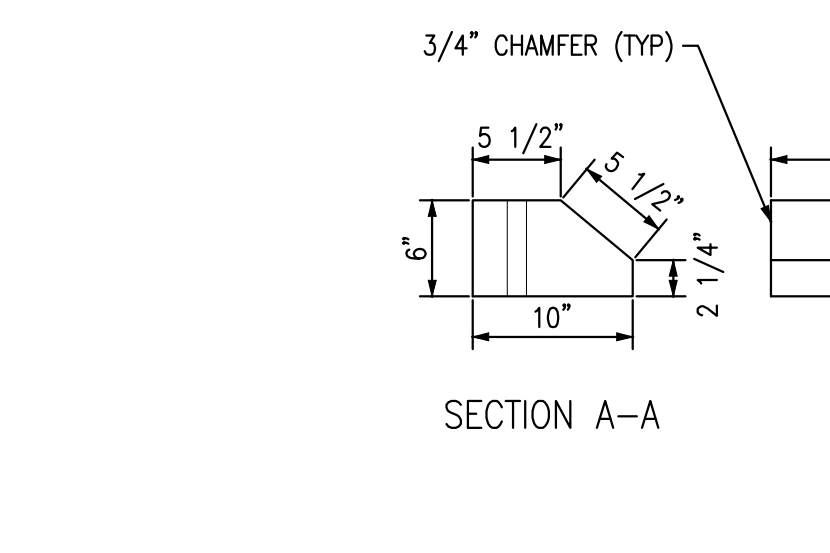
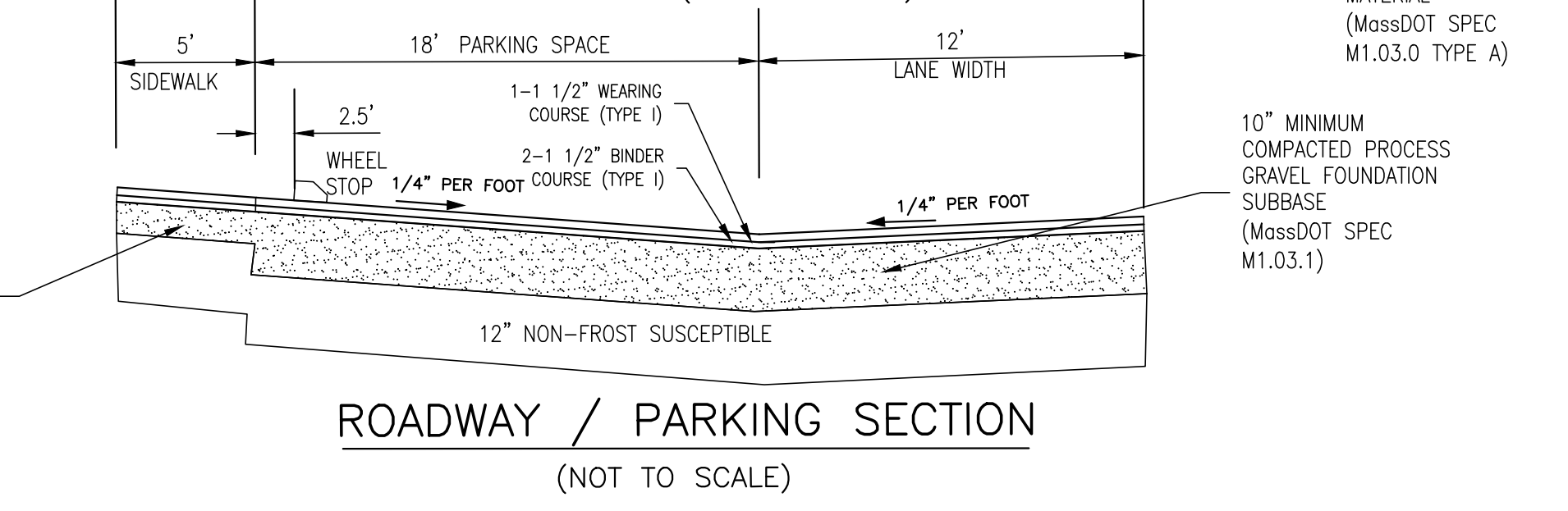
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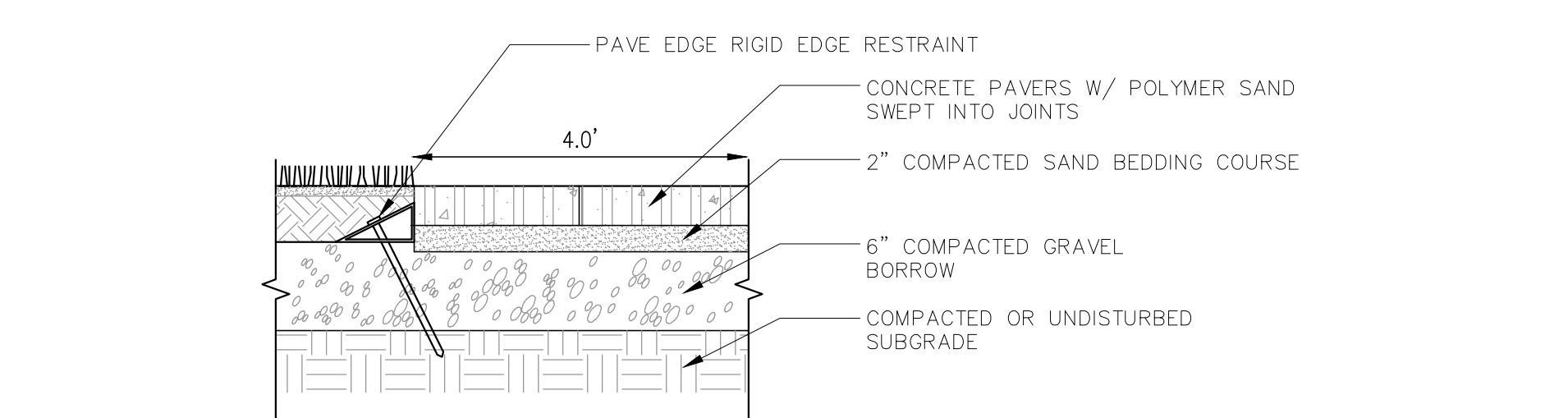
TIMOTHY R. BENNETT P.L.S. #36856 DATE

SITE PLAN APPROVED DATE:

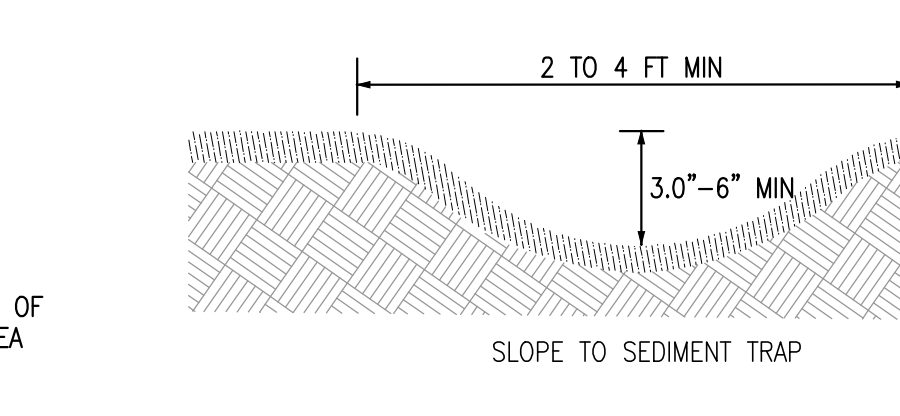
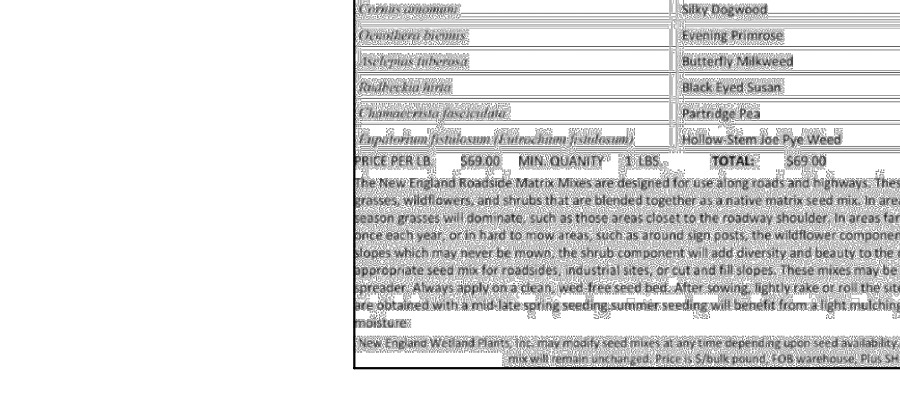
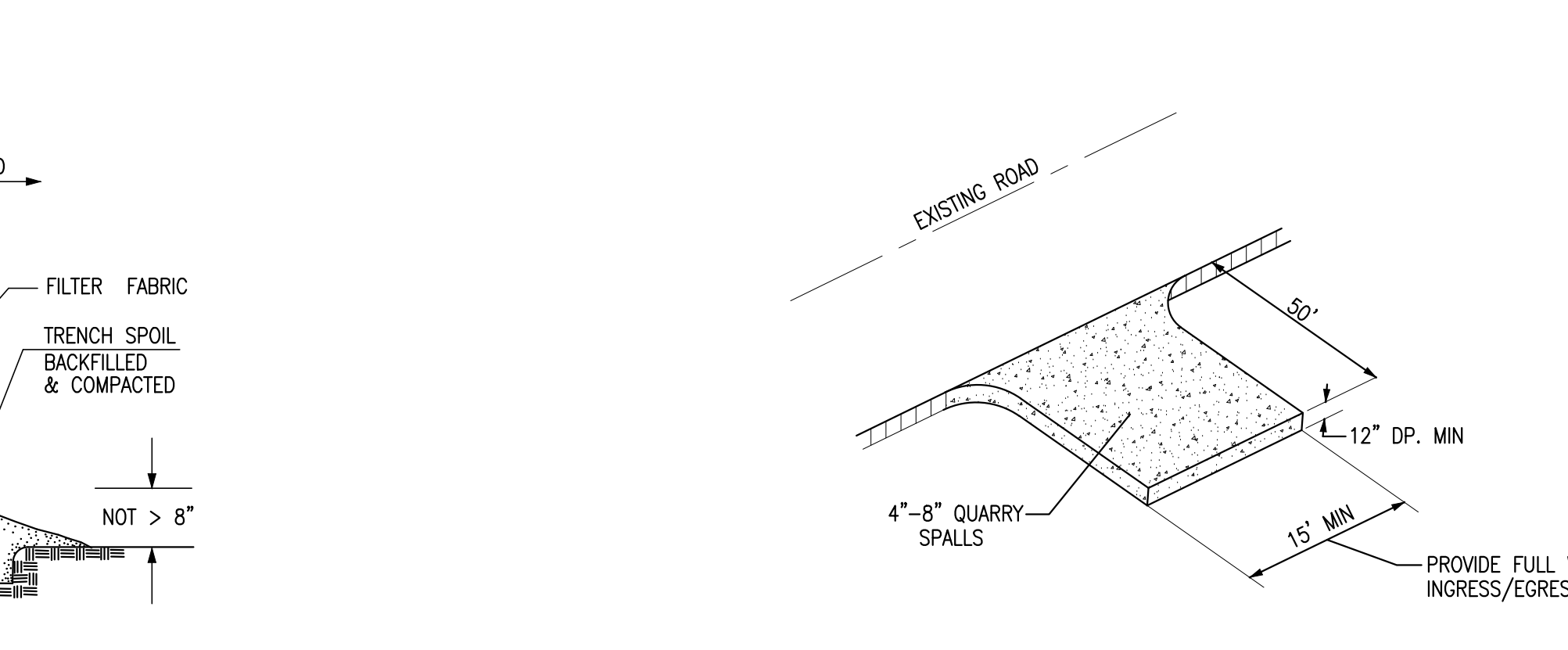
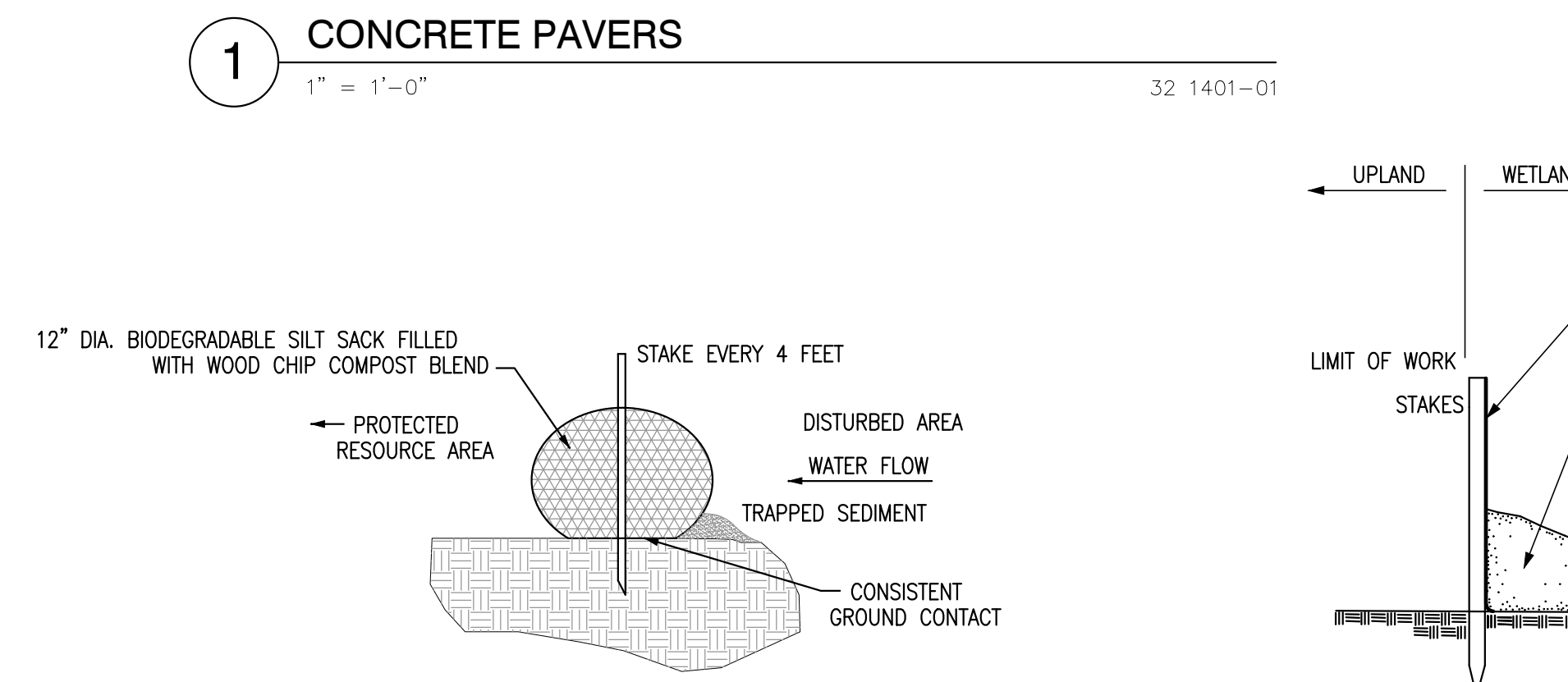
SCITUATE PLANNING BOARD



NOTE: SILT SACKS SHALL BE INSPECTED DAILY AND SILT SHALL BE REMOVED WHEN ACCUMULATED TO ALLOW CATCH BASIN TO FUNCTION PROPERLY. REMOVE PERMANENTLY WHEN SITE STABILIZATION HAS OCCURRED.

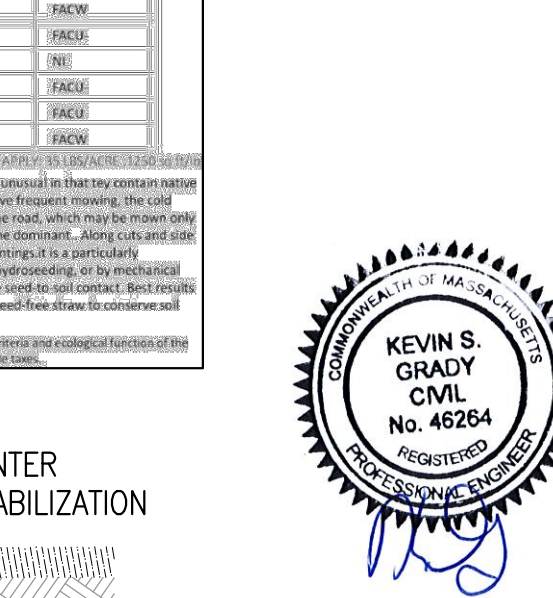


Bill of Materials	Quantity	Unit
Concrete	100	YD
Gravel	200	YD
Asphalt	50	YD
Sand	100	YD
Steel	10	TON
Timber	50	YD
Grass Seed	100	YD
Water	1000	YD
Electricity	100	YD
Labor	100	YD
Equipment	100	YD
Permit	1	PERMIT
Insurance	1	PERMIT
Professional Fee	1	PERMIT
Contingency	10	PERCENT
Total	1500	YD



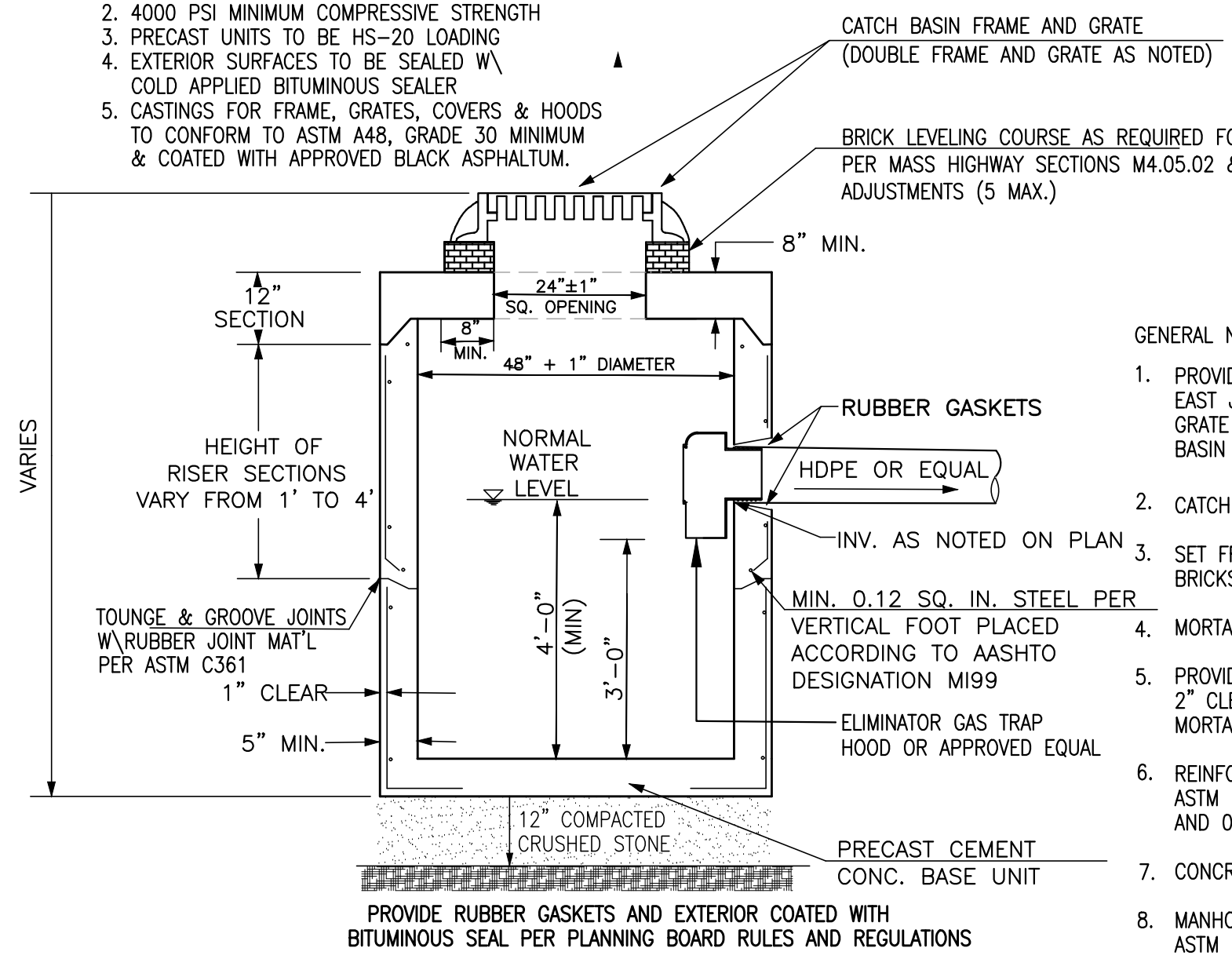
REVISIONS

DATE	DESCRIPTION
JUNE 19, 2023	RESPOND TO TEC PEER REVIEW COMMENTS
OCTOBER 10, 2023	REDUCE DENSITY RESPOND TO TEC REVIEW #2
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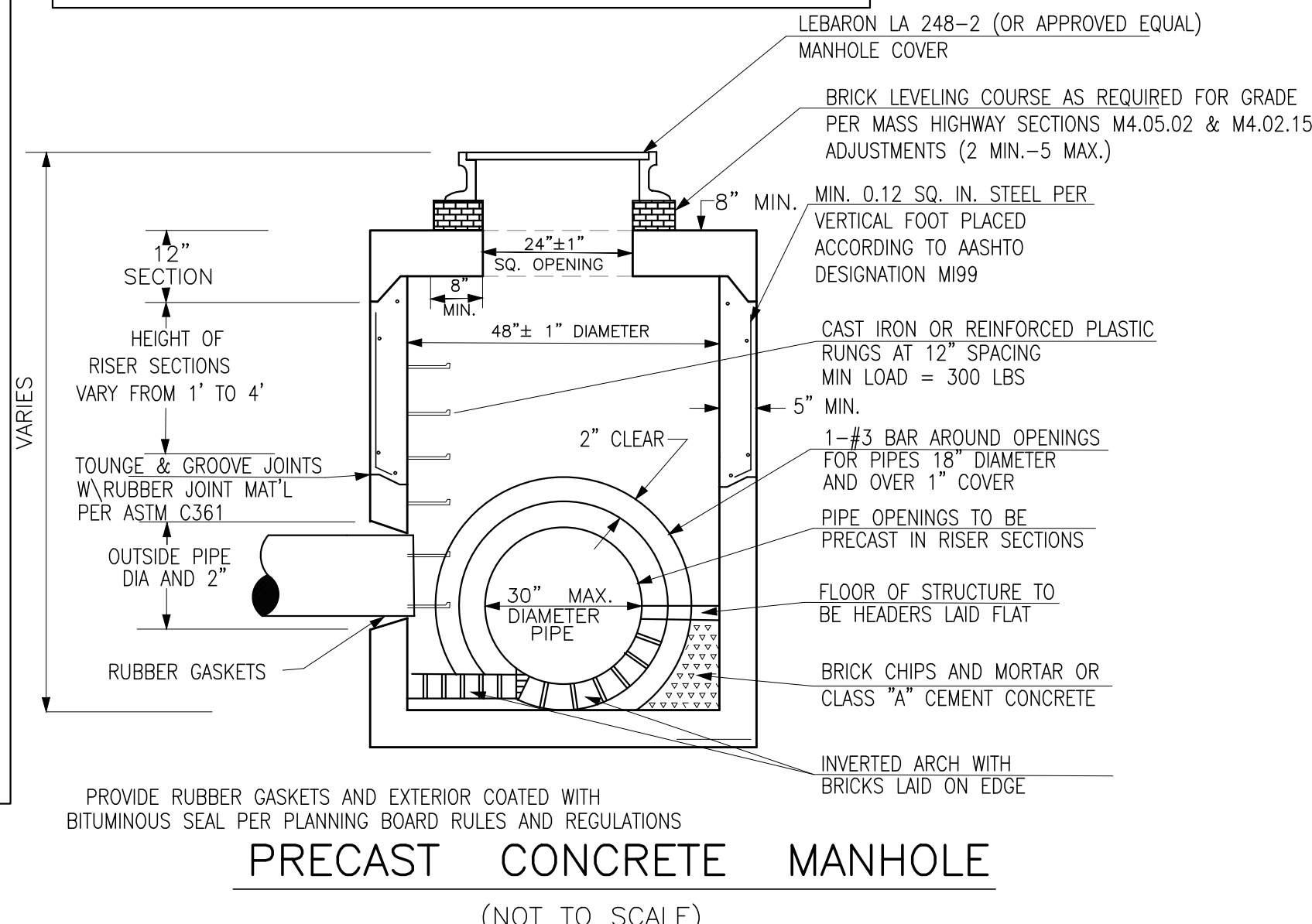
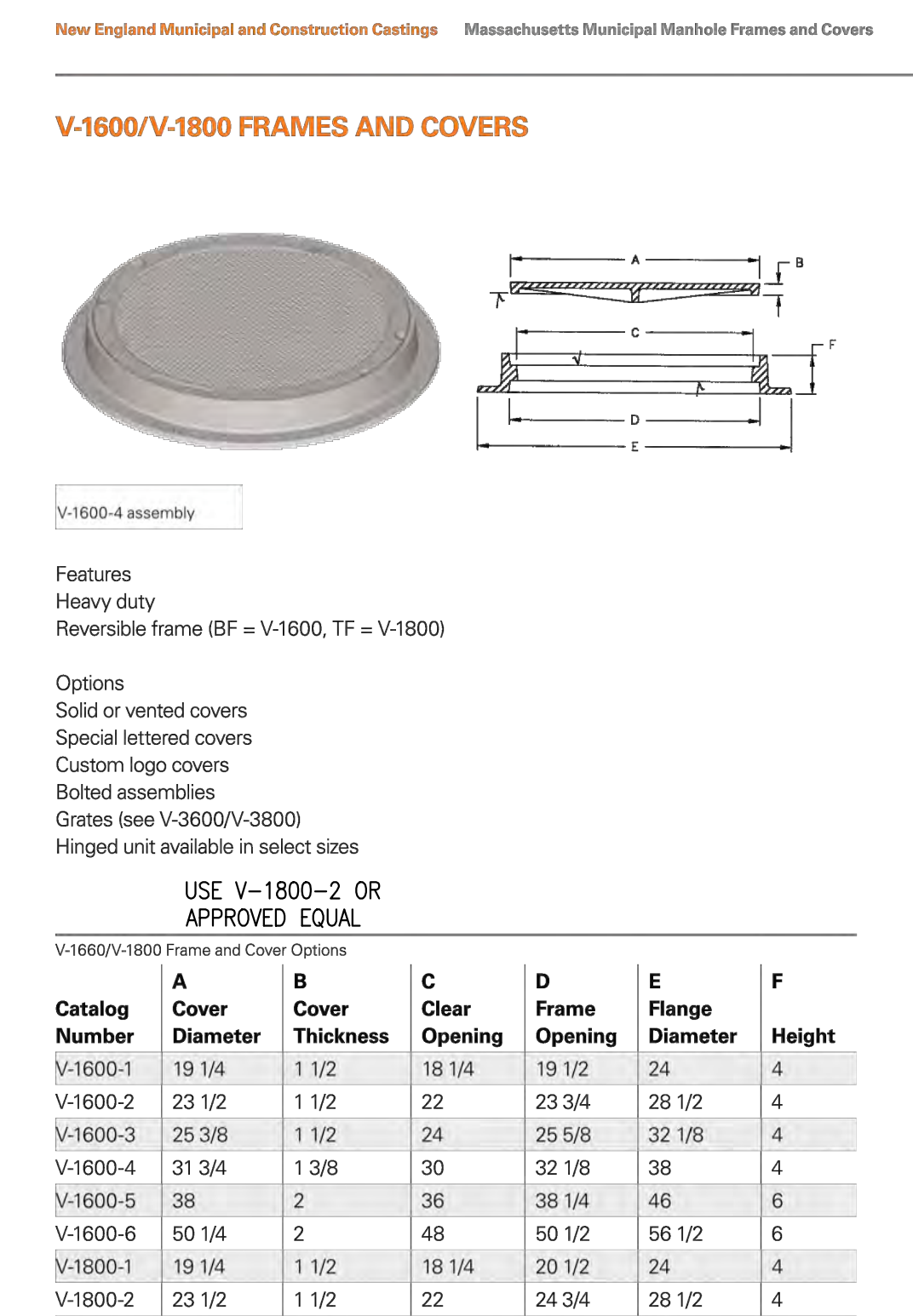
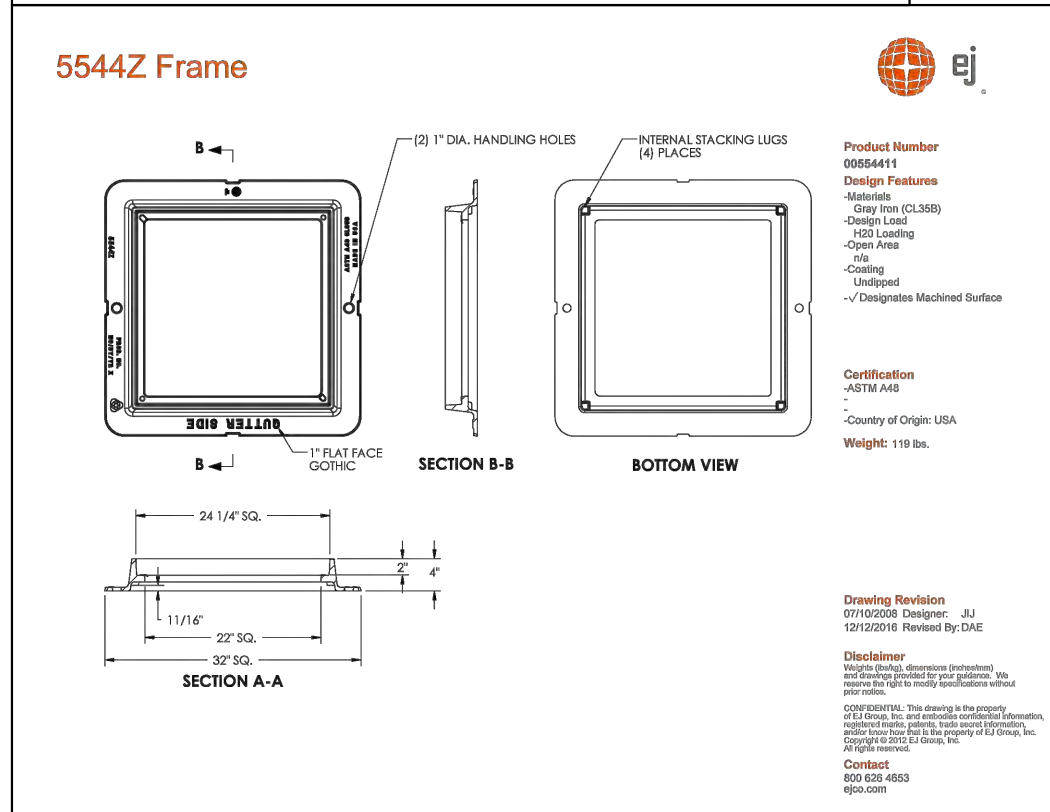
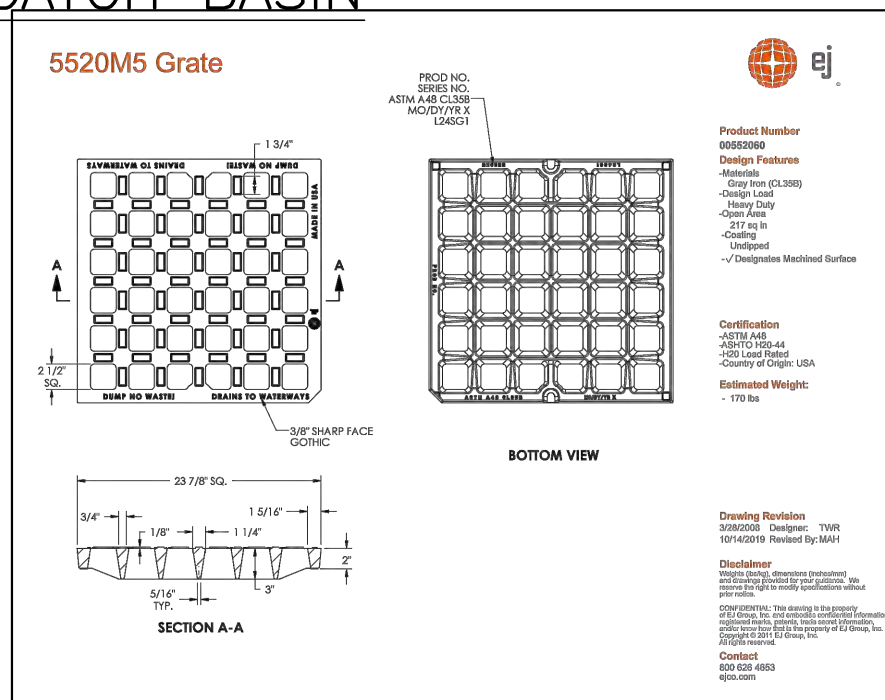
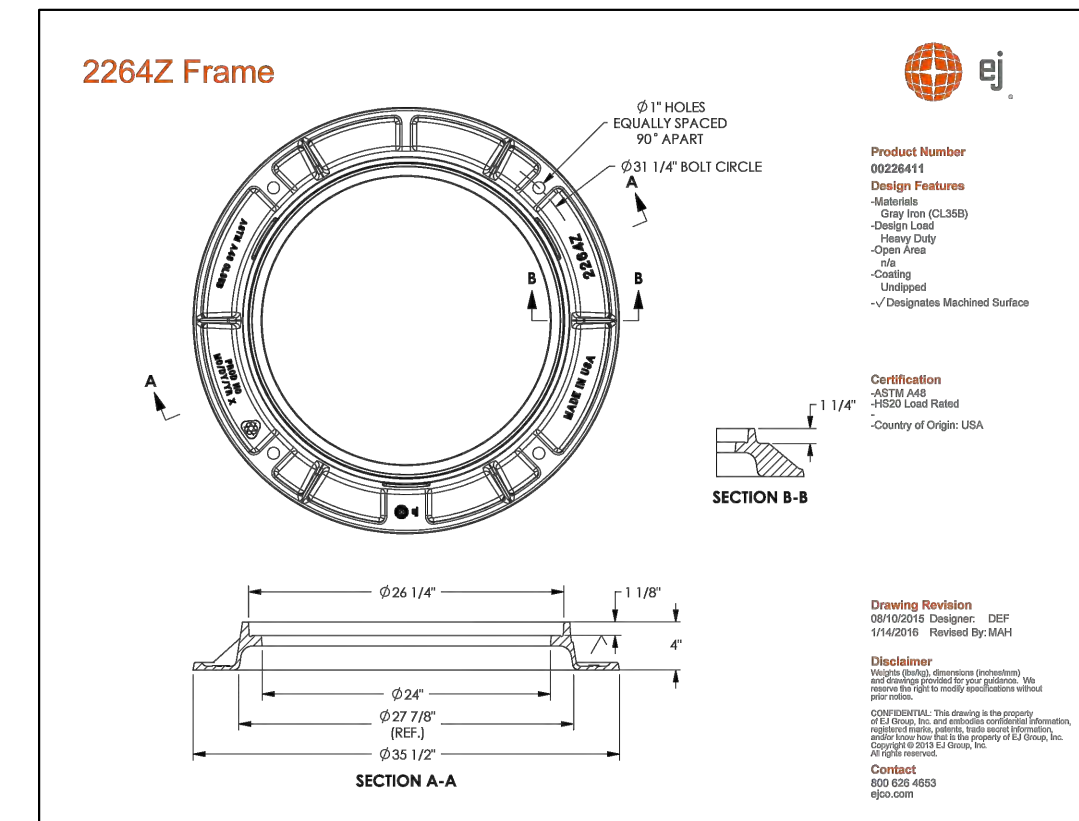


SITE PLAN
 COUNTRY WAY ESTATES
 # 817 COUNTRY WAY
 ASSESSORS PARCEL 12-2-38-F
 SCITUATE, MASSACHUSETTS
 PREPARED FOR: OPTION C PROPERTIES L.L.C. SCALE: AS NOTED
 P.O. BOX 263 WEYMOUTH, MA 02190 JOB No. 20-475
GRADY CONSULTING, L.L.C.
 Civil Engineers, Land Surveyors & Landscape Architects
 71 Evergreen Street, Suite 1, Kingston, MA 02364
 Phone (781) 585-2300 Fax (781) 585-2378

- NOTES:
1. PRECAST CONCRETE UNITS TO CONFORM TO THE MASS HIGHWAY SECTION M4.02.14
 2. 4000 PSI MINIMUM COMPRESSIVE STRENGTH
 3. PRECAST UNITS TO BE HS-20 LOADING
 4. EXTERIOR SURFACES TO BE SEALED W/ COLD APPLIED BITUMINOUS SEALER
 5. CASTINGS FOR FRAME, GRATES, COVERS & HOODS TO CONFORM TO ASTM A48, GRADE 30 MINIMUM & COATED WITH APPROVED BLACK ASPHALTUM.



FLAT-TOP PRECAST GASOLINE TRAP CATCH BASIN
(NOT TO SCALE)



PRECAST CONCRETE MANHOLE
(NOT TO SCALE)

ADS TECHNICAL NOTE
Minimum and Maximum Cover Heights for Corrugated HDPE Pipe (per AASHTO) TN 2.01 September 2014

Introduction
The information in this document is designed to provide answers to general cover height questions; the data provided is not intended to be used for project design. The design procedure described in the Structures section (Section 5) of the Drainage Handbook provides detailed information for analyzing most common installation conditions. This procedure should be utilized for project specific designs.

Minimum Cover in Traffic Applications
Pipe diameters from 4- through 48-inch (100-1200 mm) installed in traffic areas (AASHTO H-25 or HS-25 loads) must have at least one foot (0.3m) of cover over the pipe crown, while 54- and 60-inch (1350 and 1500 mm) pipes must have at least 24 inches (0.6m) of cover. The backfill envelope must be constructed in accordance with the Installation section (Section 5) of the Drainage Handbook and the requirements of ASTM D2321. The backfill envelope must be of the type and composition listed in Appendix A-5, Table A-5-2 of the Drainage Handbook. In Table 1 below, this condition is represented by a Class III material compacted to 90% standard Proctor density, although other material can provide similar strength at slightly lower levels of compaction. Structural backfill material should extend six inches (0.15m) over the crown of the pipe; the remaining cover should be appropriate for the installation and as specified by the design engineer. If settlement or rutting is a concern, it may be appropriate to extend the structural backfill to grade. Where pavement is involved, sub-base material can be considered in the minimum burial depth. While rigid pavements can be included in the minimum cover, the thickness of flexible pavements should not be included in the minimum cover.

Table 1
Minimum Cover Requirements for ADS N-12, N-12 ST, and N-12 WT (per AASHTO) with AASHTO H-25 or HS-25 Load

Inside Diameter ID, in. (mm)	Minimum Cover B, in. (mm)	Minimum Cover B, in. (mm)
4 (102)	24 (609)	24 (609)
6 (152)	30 (762)	30 (762)
8 (203)	36 (914)	36 (914)
10 (254)	42 (1066)	42 (1066)
12 (305)	48 (1219)	48 (1219)
15 (375)	60 (1524)	60 (1524)
18 (457)	72 (1829)	72 (1829)

Note: Minimum covers presented here were calculated assuming Class III backfill material compacted to 90% standard Proctor density around the pipe and a minimum of 6-inches (0.15m) structural backfill over the pipe crown, as recommended in Section 5 of the Drainage Handbook, with an additional layer of compacted fine sub-base for a total cover as required. In shallow traffic installations, especially where pavement is involved, a good quality compacted material to grade is required to prevent surface settlement and rutting.

4640 TRILEMAN BLVD., HILLIARD, OH 43038 (800) 821-6710 www.ads-pipe.com © ADS 2014

ADS Maximum Cover

Wall thrust generally governs the maximum cover a pipe can withstand and conservative maximum cover heights will result when using the information presented in the Structures section of the Drainage Handbook.

The maximum burial depth is highly influenced by the type of backfill and level of compaction around the pipe. General maximum cover limits for ADS N-12, N-12 ST, N-12 WT pipe, (ASTM F2306 and AASHTO M252/M294 Type S pipes) are shown in Table 3 for a variety of backfill conditions.

Table 3 was developed assuming pipe is installed in accordance with ASTM D2321 and the Installation section (Section 5) of the Drainage Handbook. Additionally, the calculations assume zero hydrostatic load, incorporate the maximum safety factors represented in Structures section of the Drainage Handbook, use material properties consistent with the expected performance characteristics for N-12 (per ASTM F2306) materials as shown in Table 2 below, and assume the native soil is of adequate strength and is suitable for installation. For applications requiring fill heights greater than those shown in Table 3 or where hydrostatic pressure due to groundwater is present, contact an ADS engineering representative.

Figure 1
ADS N-12, N-12 ST, and N-12 WT (per AASHTO) Trench Detail Under Pavement

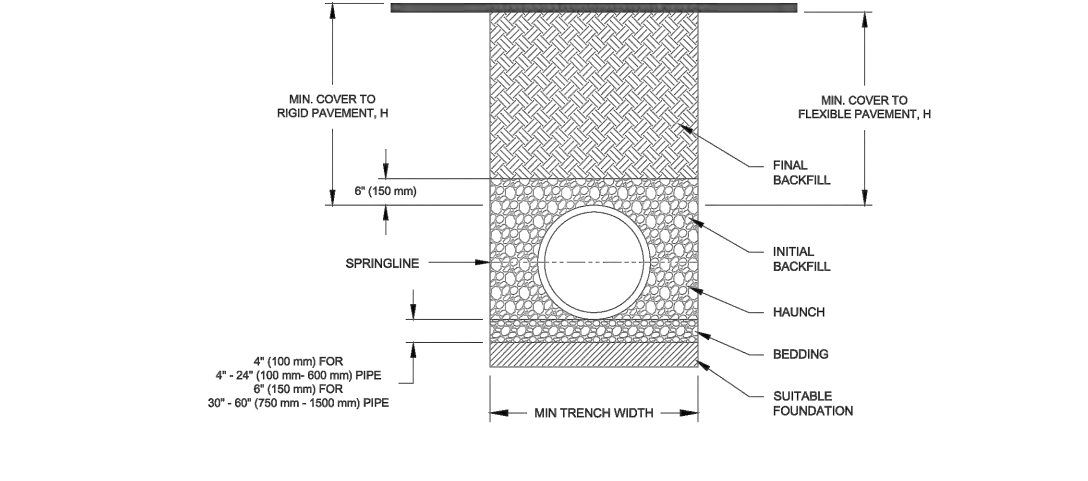
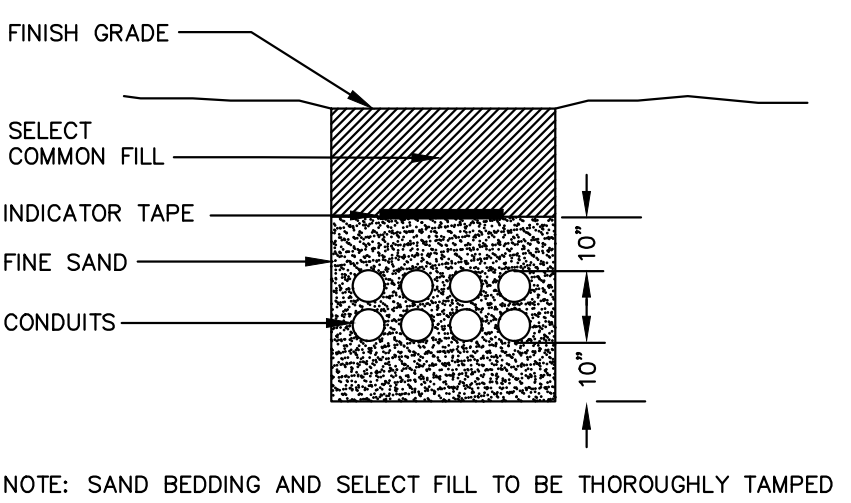


Table 2
ADS N-12 (per AASHTO) Mechanical Properties

Cell Class	Factored Compressive Strain (%)	Tension Strain (%)	Initial		75-Year	
			Fu (psi)	E (psi)	Fu (psi)	E (psi)
ASTM D3350 435400C	4.1	5.0	3,000	110,000	900	21,000

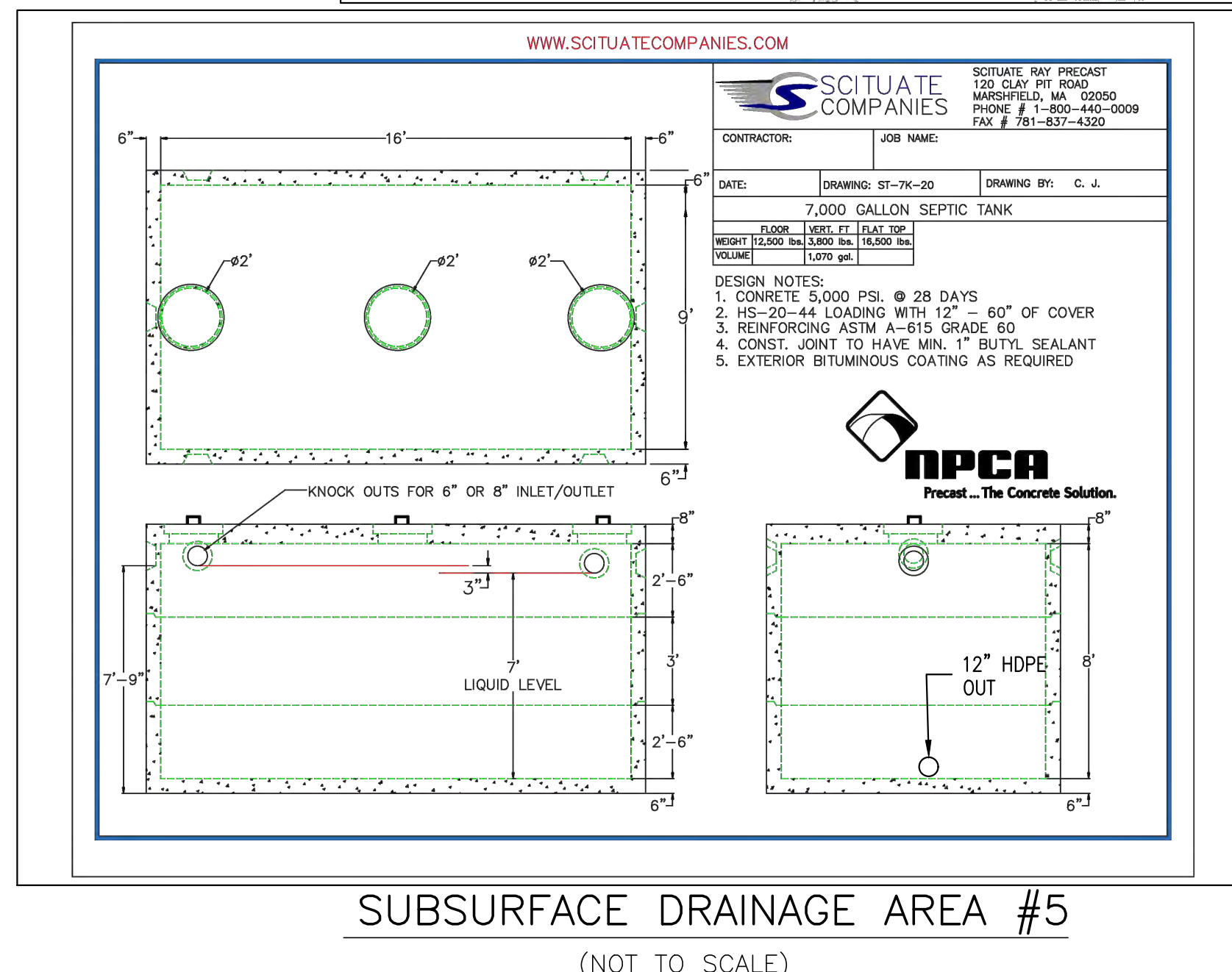
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DRAIN PIPE INSTALLATION REQUIREMENT
(NOT TO SCALE)

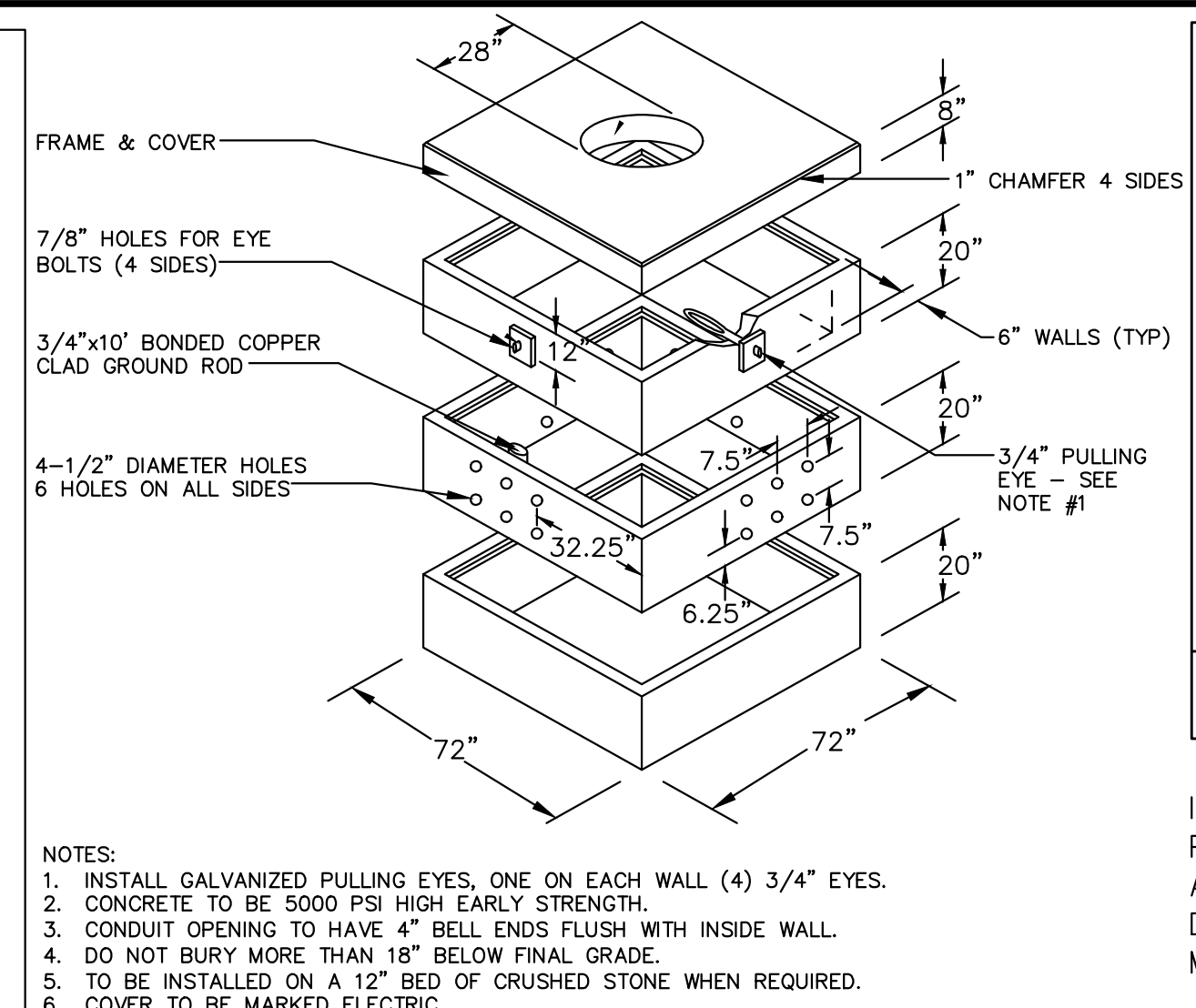


12 ELEC. CONDUIT DETAIL
Scale: NONE

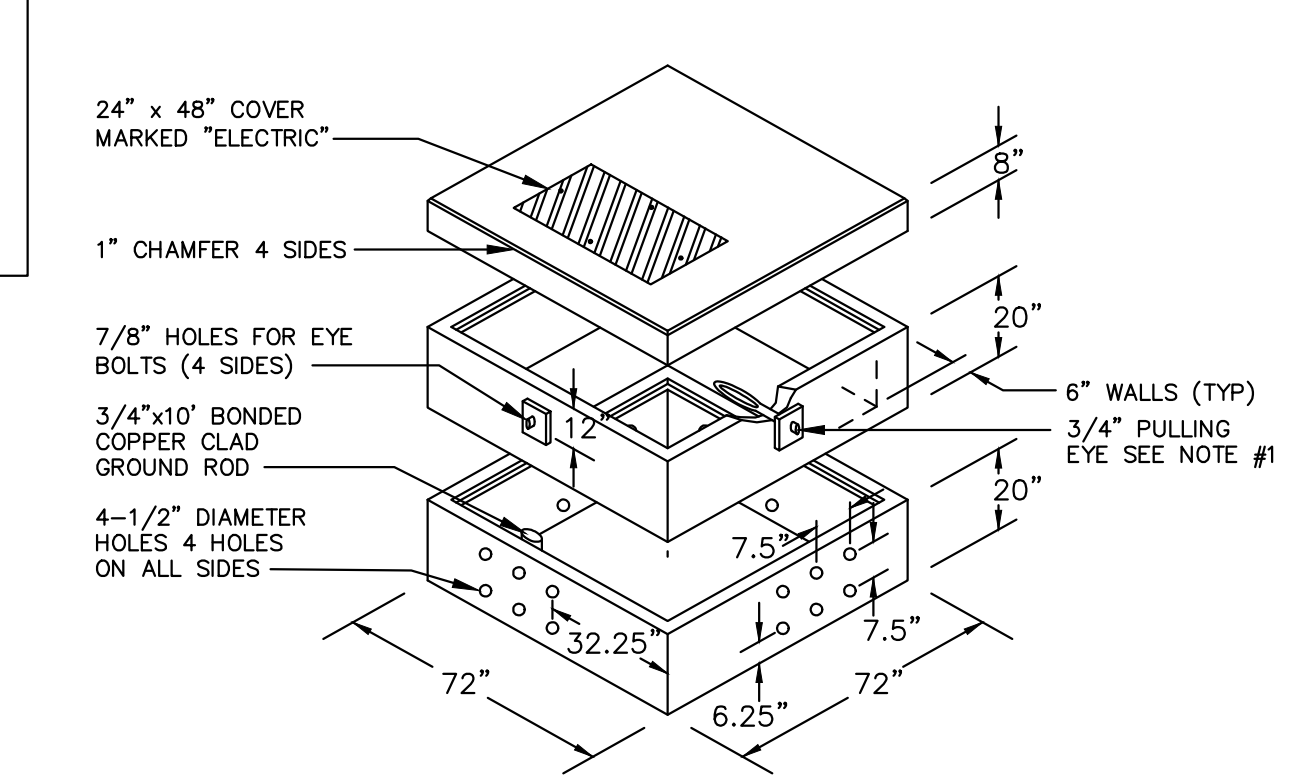
- NOTES:
1. PRECAST CONCRETE UNITS TO CONFORM TO THE MASS HIGHWAY SECTION M4.02.14
 2. 4000 PSI MINIMUM COMPRESSIVE STRENGTH
 3. PRECAST UNITS TO BE HS-20 LOADING
 4. EXTERIOR SURFACES TO BE SEALED W/ COLD APPLIED BITUMINOUS SEALER
 5. CASTINGS FOR FRAME, GRATES, COVERS & HOODS TO CONFORM TO ASTM A48, GRADE 30 MINIMUM & COATED WITH APPROVED BLACK ASPHALTUM.



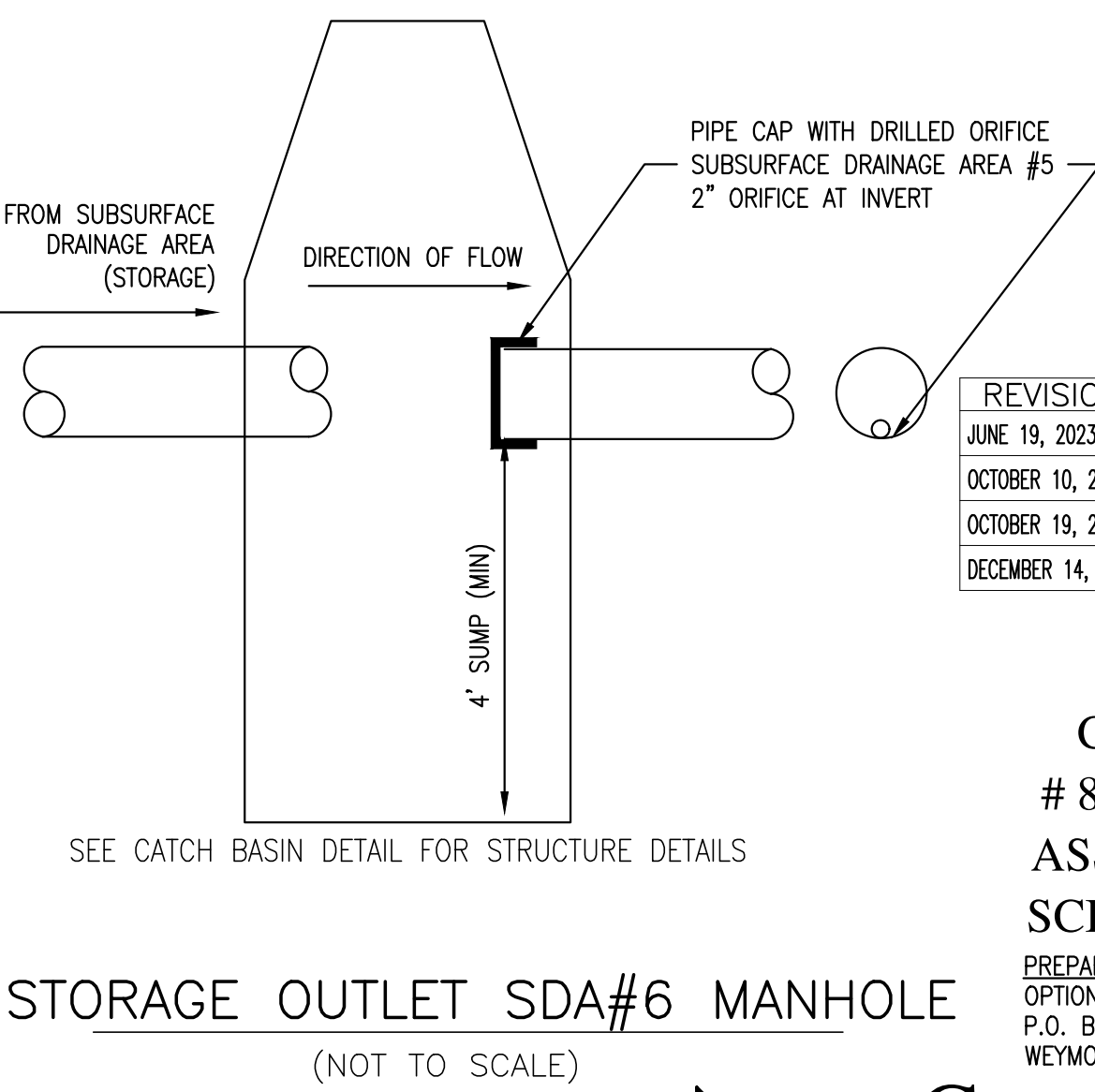
SUBSURFACE DRAINAGE AREA #5
(NOT TO SCALE)



9 UTILITY PULL BOX DETAIL
Scale: NONE



6 3 PHASE TRANSFORMER VAULT
UP TO 500 KVA Scale: NONE



STORAGE OUTLET SDA#6 MANHOLE
(NOT TO SCALE)

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

TIMOTHY R. BENNETT P.L.S. #36856 DATE

SITE PLAN APPROVED
DATE:

SCITUATE PLANNING BOARD



REVISIONS	
JUNE 19, 2023	RESPOND TO TEC PEER REVIEW COMMENTS
OCTOBER 10, 2023	REDUCE DENSITY RESPOND TO TEC REVIEW #2
OCTOBER 19, 2023	RESPOND TO CONSERVATION AND BOARD OF HEALTH COMMENTS
DECEMBER 14, 2023	RESPOND TO PLANNING BOARD AND PEER REVIEW COMMENTS

SITE PLAN
COUNTRY WAY ESTATES
817 COUNTRY WAY
ASSESSORS PARCEL 12-2-38-F
SCITUATE, MASSACHUSETTS

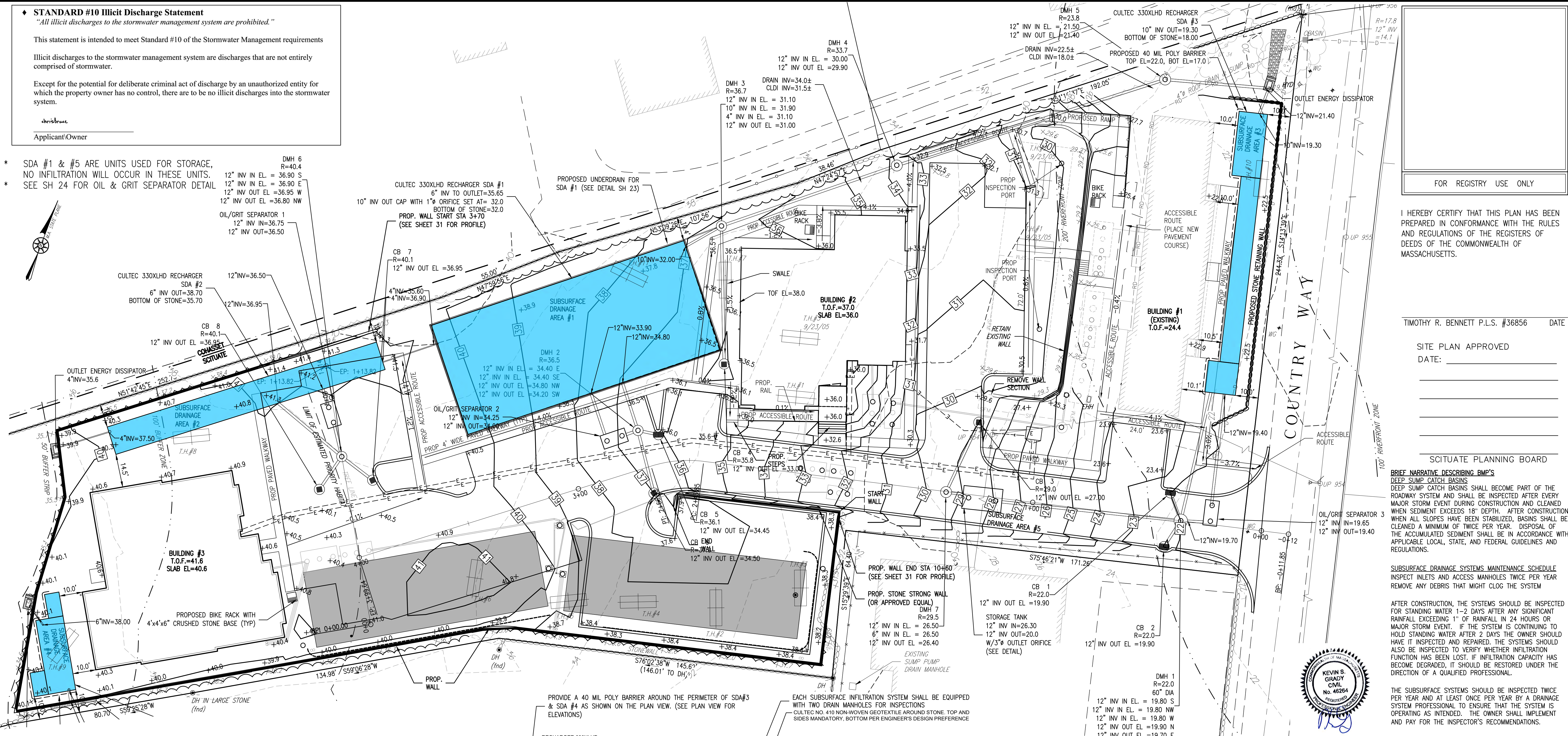
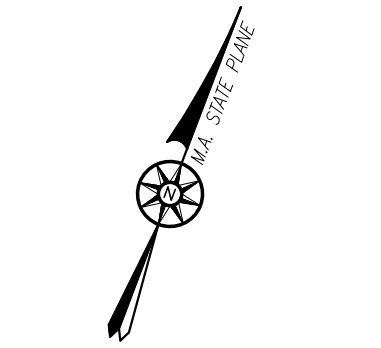
PREPARED FOR:
OPTION C PROPERTIES L.L.C.
P.O. BOX 263
WEYMOUTH, MA 02190

FEBRUARY 2, 2023
SCALE: AS NOTED
JOB No. 20-475

GRADY CONSULTING, L.L.C.
Civil Engineers, Land Surveyors & Landscape Architects
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378

STANDARD #10 Illicit Discharge Statement
 "All illicit discharges to the stormwater management system are prohibited."
 This statement is intended to meet Standard #10 of the Stormwater Management requirements
 Illicit discharges to the stormwater management system are discharges that are not entirely comprised of stormwater.
 Except for the potential for deliberate criminal act of discharge by an unauthorized entity for which the property owner has no control, there are to be no illicit discharges into the stormwater system.
 Applicant/Owner

* SDA #1 & #5 ARE UNITS USED FOR STORAGE, NO INFILTRATION WILL OCCUR IN THESE UNITS.
 * SEE SH 24 FOR OIL & GRIT SEPARATOR DETAIL



FOR REGISTRY USE ONLY

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

TIMOTHY R. BENNETT P.L.S. #36856 DATE _____

SITE PLAN APPROVED
 DATE: _____

SCITUATE PLANNING BOARD

BRIEF NARRATIVE DESCRIBING BMP'S
 DEEP SUMP CATCH BASINS SHALL BECOME PART OF THE ROADWAY SYSTEM AND SHALL BE INSPECTED AFTER EVERY MAJOR STORM EVENT DURING CONSTRUCTION AND CLEANED WHEN SEDIMENT EXCEEDS 18" DEPTH. AFTER CONSTRUCTION WHEN ALL SLOPES HAVE BEEN STABILIZED, BASINS SHALL BE CLEANED A MINIMUM OF TWICE PER YEAR. DISPOSAL OF THE ACCUMULATED SEDIMENT SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

SUBSURFACE DRAINAGE SYSTEMS MAINTENANCE SCHEDULE
 INSPECT INLETS AND ACCESS MANHOLES TWICE PER YEAR REMOVE ANY DEBRIS THAT MIGHT CLOG THE SYSTEM

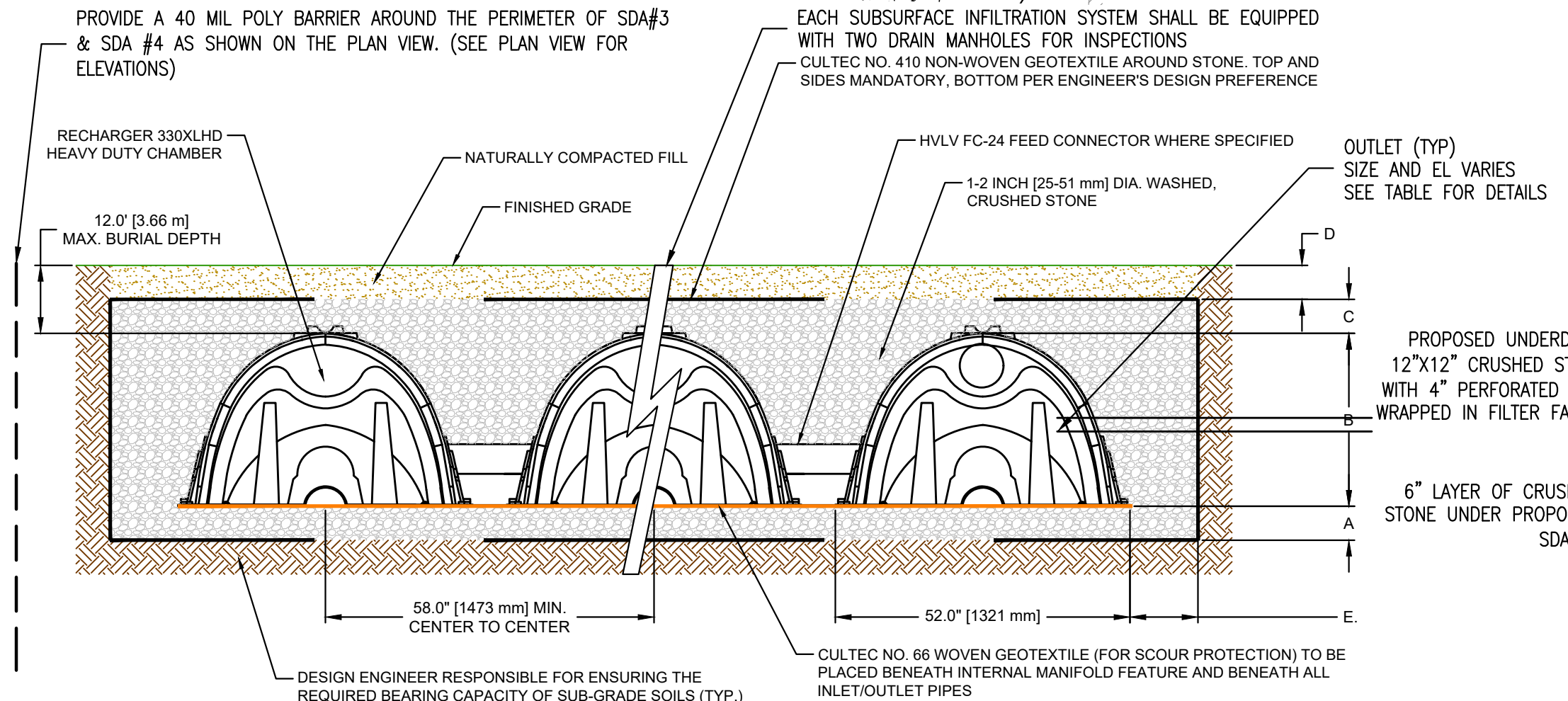
AFTER CONSTRUCTION, THE SYSTEMS SHOULD BE INSPECTED FOR STANDING WATER 1-2 DAYS AFTER ANY SIGNIFICANT RAINFALL EXCEEDING 1" OF RAINFALL IN 24 HOURS OR MAJOR STORM EVENT. IF THE SYSTEM IS CONTINUING TO HOLD STANDING WATER AFTER 2 DAYS THE OWNER SHOULD HAVE IT INSPECTED AND REPAIRED. THE SYSTEMS SHOULD ALSO BE INSPECTED TO VERIFY WHETHER INFILTRATION FUNCTION HAS BEEN LOST. IF INFILTRATION CAPACITY HAS BECOME DEGRADED, IT SHOULD BE RESTORED UNDER THE DIRECTION OF A QUALIFIED PROFESSIONAL.

THE SUBSURFACE SYSTEMS SHOULD BE INSPECTED TWICE PER YEAR AND AT LEAST ONCE PER YEAR BY A DRAINAGE SYSTEM PROFESSIONAL TO ENSURE THAT THE SYSTEM IS OPERATING AS INTENDED. THE OWNER SHALL IMPLEMENT AND PAY FOR THE INSPECTOR'S RECOMMENDATIONS.

FOR A FULL DESCRIPTION SEE OPERATION AND MAINTENANCE STORMWATER REPORT FILED WITH THIS APPLICATION

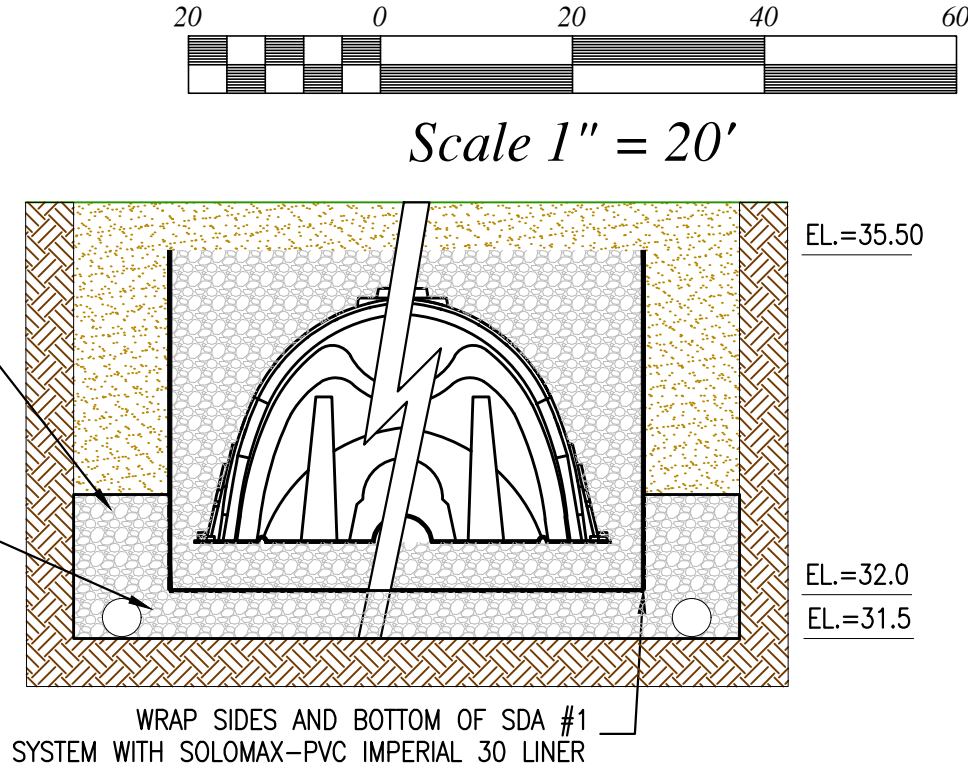


	SDA #1 (STORAGE ONLY - PLACE SOLOMAX PVC IMPERIAL 30 BARRIER ON SIDES AND UNDER SYSTEM)	SDA #2	SDA #3	SDA #4
RECHARGER MODEL	R-330 XLHD	R-330 XLHD	R-330 XLHD	C-100HD
BOTTOM OF STONE	32.00	35.70	18.00	35.50
TOP OF STONE (A)	6"	32.50	6"	36.50
CHAMBER (B)	2.5'	35.00	2.5'	37.50
STONE COVER (C)	6"	35.50	6"	38.71
FINISHED GRADE/OUTLET/INSPECTION PORT (D)	17"	36.50	15"	40.30
SIDE STONE (E)	22"	12"	24" (SECTION A) 20" (SECTION B) 23" (SECTION C)	12" (SECTION A) 18" (SECTION B) 18" (SECTION C)
END STONE	12"	12"	15" (SECTION A) 33" (SECTION B) 31" (SECTION C)	12" (SECTION A) 15" (SECTION B) 15" (SECTION C)
INV(OUT)	10" HDPE WITH 1" ORIFICE	34.50	6" HDPE	37.00 38.00
GROUNDWATER	-	33.26	33.63	14.23



GENERAL NOTES
 RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 11.32 CF/FT (1.05 m³/m) PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
 THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
 ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS



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 COUNTRY WAY ESTATES
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 ASSESSORS PARCEL 12-2-38-F
 SCITUATE, MASSACHUSETTS

PREPARED FOR:
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 P.O. BOX 263
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FEBRUARY 2, 2023
 SCALE: 1" = 20'
 JOB No. 20-475

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