



MILLBURY PLANNING BOARD REVIEW

MILLBURY FIRE HEADQUARTERS SITE PLAN APPLICATION REVISED-MARCH 1ST, 2021

130 ELM STREET
MILLBURY, MA 01527

PROJECT DIRECTORY

ARCHITECTURE - SITE PLAN APPLICATION

- A0.1 SITE PLAN APPLICATION COVER
- A0.2 SITE PLAN APPLICATION ELEVATIONS

SURVEY

- 1of1 EXISTING SITE CONDITIONS

CIVIL

- C0.1 SITE, LEGEND
- C0.2 SITE DETAILS
- C0.3 SITE DETAILS
- C0.4 SITE DETAILS
- C0.5 SITE DETAILS
- C0.6 SITE DETAILS
- C1.0 SITE DEMOLITION & PREPARATION PLAN
- C1.1 SITE LAYOUT & MATERIALS PLAN
- C2.1 SITE UTILITY PLAN
- C3.1 SITE GRADING PLAN

LIGHTING & ELECTRICAL

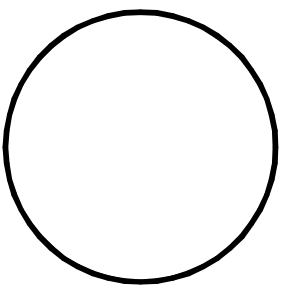
- LCC 1 SITE PHOTOMETRICS PLAN
- LCC 2 SITE PHOTOMETRICS DETAILS
- E.03 ELECTRICAL SITE PLAN

LANDSCAPE

- L1.0 LANDSCAPE PLAN
- L3.0 LANDSCAPE PLANTING PLAN
- L4.0 LANDSCAPE DETAILS



1 SITE LOCUS PLAN
1" = 150'-0"



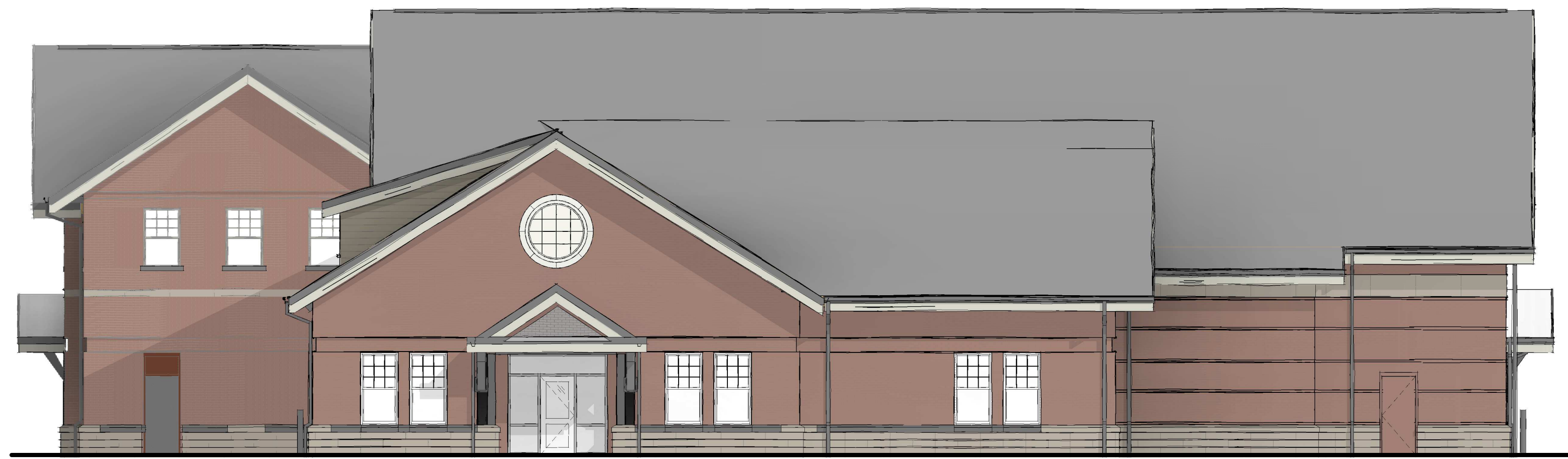
context
ARCHITECTURE
68 HARRISON AVENUE BOSTON, MA 02111 TEL 617.423.1400 WEB CONTEXTARC.COM

MILLBURY FIRE STATION
130 Elm Street, Millbury MA
project number: 1902.0
SITE PLAN APPLICATION COVER

Scale: 1" = 150'-0"
Drawn by: Author

No.	Issue	Date

A0.1



1 EAST ELEVATION
1/8" = 1'-0"



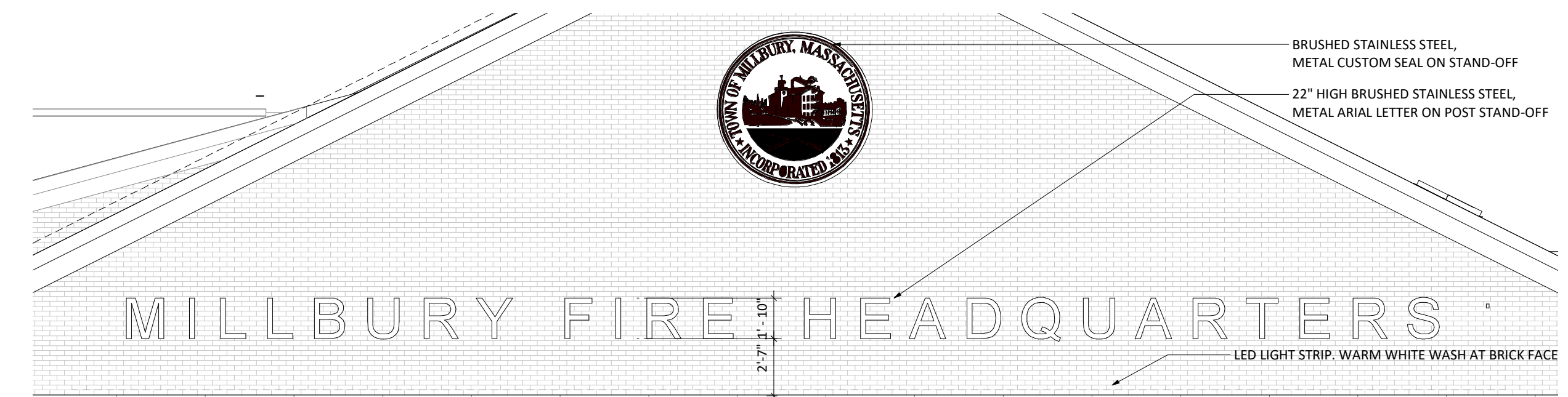
5 NORTH ELEVATION
1/8" = 1'-0"



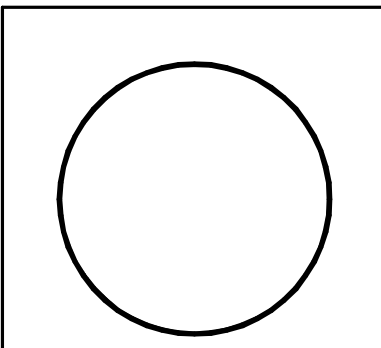
6 SOUTH ELEVATION
1/8" = 1'-0"



7 WEST ELEVATION
1/8" = 1'-0"



2 ELEVATION BUILDING SIGN
3/16" = 1'-0"



context
ARCHITECTURE
68 HARRISON AVENUE BOSTON, MA 02111 TEL 617.423.1400 WEB CONTEXTARC.COM

MILLBURY FIRE STATION
130 Elm Street, Millbury MA
project number: 1902.0
SITE PLAN APPLICATION ELEVATIONS

Scale: As indicated
Drawn by: Author

No. Issue Date

A0.2



Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

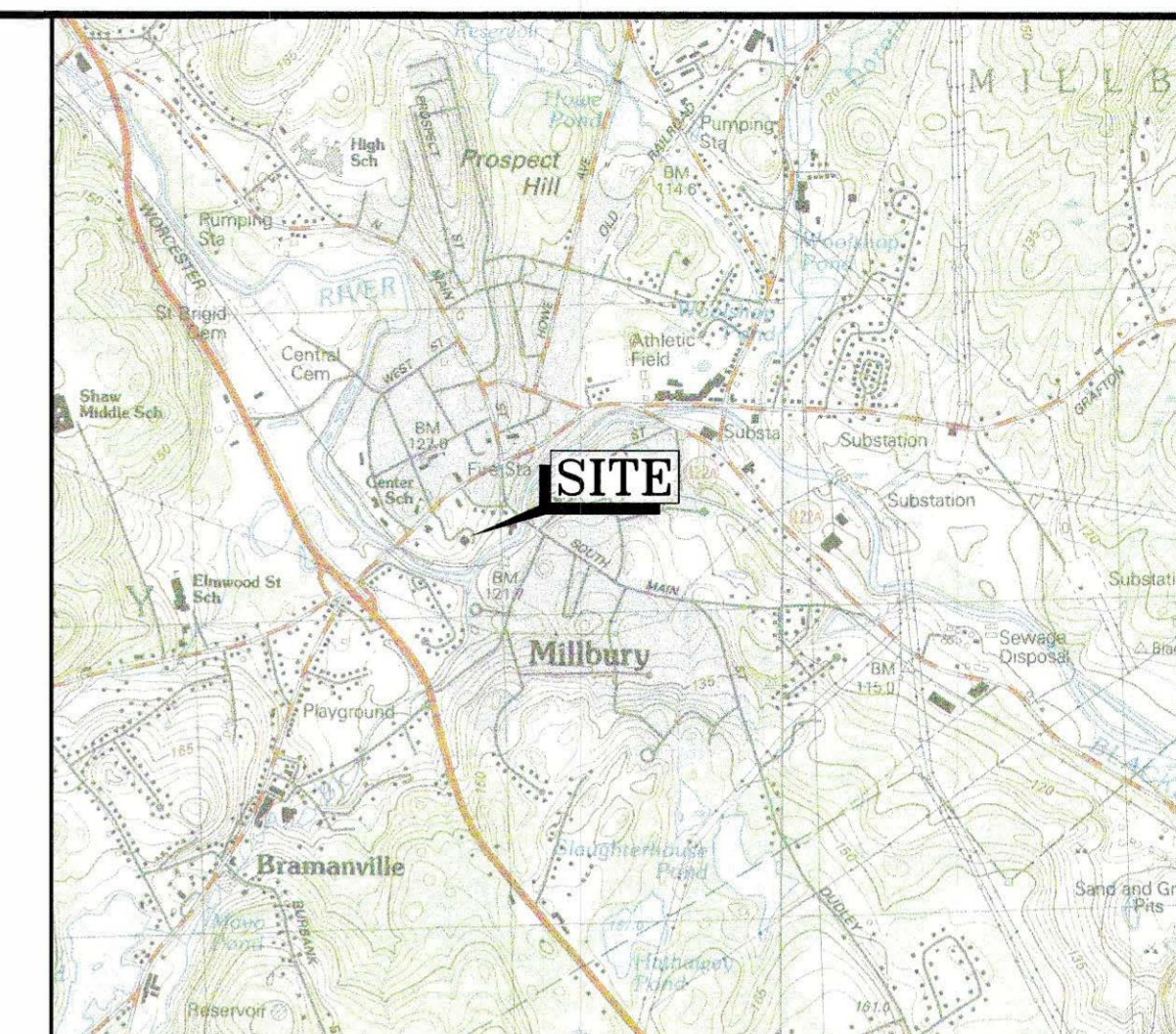
P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569
P: 508-278-3897 F: 508-278-2289

500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

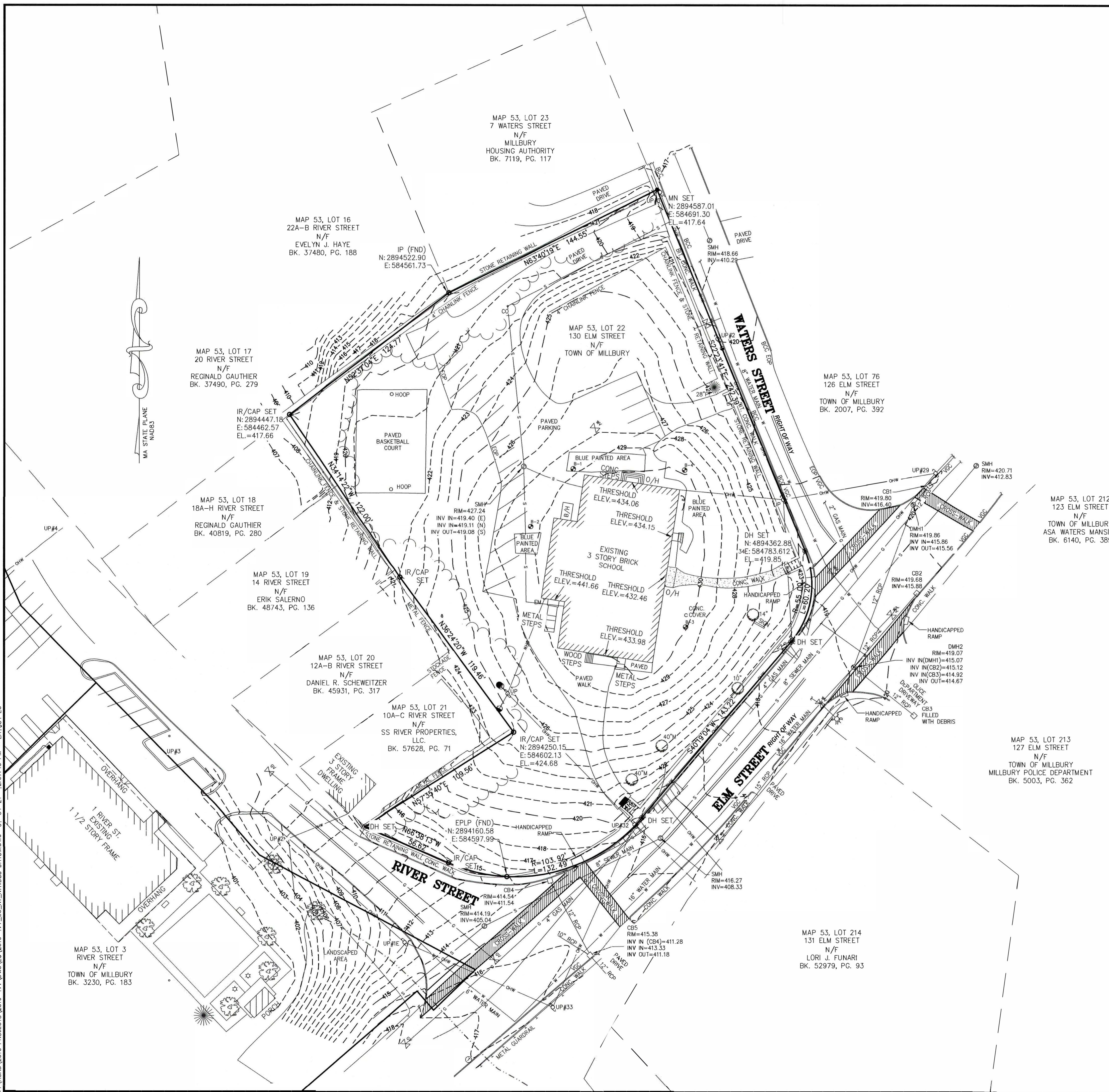
OWNER OF RECORD:
TOWN OF MILLBURY
130 ELM STREET
MILLBURY, MA 01527

MILLBURY ASSESSORS INFORMATION:
MAP 53, LOT 22

MILLBURY ZONING INFORMATION:
R-1
MINIMUM AREA: 40,000 S.F.
MINIMUM FRONTAGE: 100'
SETBACKS: FRONT 25', SIDE 10', REAR 10'

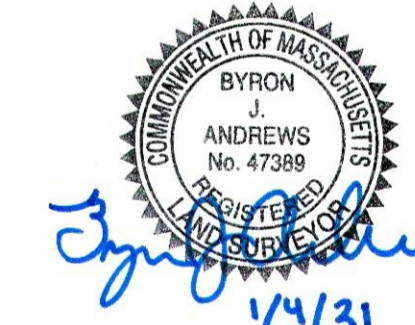


LOCUS MAP
SCALE: 1" = 2,000'

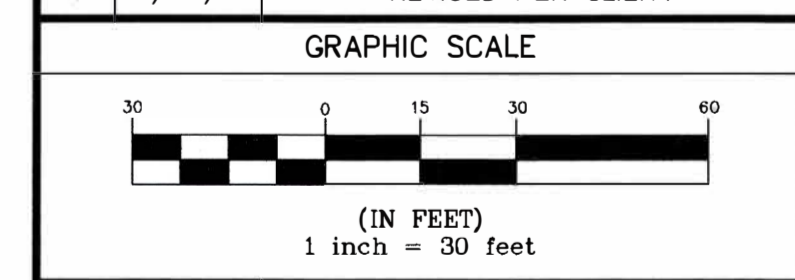


LEGEND	
NOW OR FORMERLY	N/F
DRILL HOLE	DH
SQUARE FEET	S.F.
FOUND	FND
DRILL HOLE	● DH
ESCUTCHEON PIN LEAD PLUG	○ EPLP
CHAIN LINK FENCE	—○—

- NOTE:
- PROPERTY LINES ARE THE RESULT OF RECORD INFORMATION AND A PARTIAL ON-THE-GROUND SURVEY AND ARE TO BE CONSIDERED APPROXIMATE ONLY.
 - NOTICE TO CONTRACTOR: THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
 - HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NAVD 88



REVISIONS		
NO.	DATE	DESCRIPTION
1	12/30/20	REVISED PER CLIENT



CAD FILE	2015-316\DWG\2019-177 EC.DWG		
DRAWN BY	WCN, JJS	FIELD BY	KB, SM
CHECKED BY	BA	CALC. BY	JA
DATE	SEPTEMBER 25, 2019		
PROJECT NO.	2019-177 (REF 2015-316)		
PLAN NO.	L-6003		

TITLE

EXISTING CONDITIONS PLAN
OF
130 ELM STREET
IN
MILLBURY, MA
OWNED BY
TOWN OF MILLBURY

F:\ACAD\2019 PROJECTS\2019-177 EC.DWG\2019-177 EC.RI.NAVD88 DATUM.DWG 01-04-21 12:37:45 PM - LAYOUT EC

SITE LEGEND

EXISTING	NEW	DESCRIPTION
D	D	STORM DRAIN
E	E	ELECTRIC (UNDERGROUND)
F	F	FIRE SERVICE
FD	FD	FOOTING DRAIN
RD	RD	ROOF DRAIN
DS	DS	DOWNSPOUT DRAIN
FM	FM	FORCEMAIN
G	G	GAS
OHW	OHW	OVERHEAD WIRE
PL	PL	PROPERTY LINE
S	S	SANITARY SEWER
W	W	WATER
EP	EP	UNDERGROUND ELECTRIC PRIMARY SERVICE
ES	ES	UNDERGROUND ELECTRIC SECONDARY SERVICE
T	T	UNDERGROUND TELEPHONE SERVICE
CTV/F	CTV/F	UNDERGROUND CABLE TV & FIBER OPTIC
SL	SL	UNDERGROUND SITE LIGHTING SERVICE
64	64	CONTOUR
BCC	BCC	BITUMINOUS CONC. CURB
TGC	TGC	TRANSITION GRANITE CURB
VGC	VGC	VERTICAL GRANITE CURB
x64.75	x64.75	SPOT GRADE
CL	CL	CHAINLINK FENCE
DMH	DMH	DRAIN MANHOLE
FES	FES	FLARED END STRUCTURE
SMH	SMH	SEWER MANHOLE
CB	CB	CATCH BASIN
CB(DG)	CB(DG)	DOUBLE GRATE CATCH BASIN
W	W	WATER SERVICE
PIV	PIV	POST INDICATOR VALVE
UT	UT	UTILITY POLE
CTB	CTB	CONCRETE THRUST BLOCK
FH	FH	FIRE HYDRANT
GV	GV	GATE VALVE AND CURB BOX
HS	HS	HANDICAP SYMBOL (PRKG. SPACE)
EMH	EMH	ELECTRIC MANHOLE
TMH	TMH	TELEPHONE MANHOLE
EPB	EPB	ELECTRIC PULL BOX
SIP	SIP	SIGHT LIGHT POLE
IF-FDC	IF-FDC	FIRE DEPARTMENT CONNECTION
W	W	WETLAND
BL	BL	BORING LOCATION
TP	TP	TEST PIT LOCATION
C.T.E.	C.T.E.	POINT OF CONNECTION TO EXISTING
E.T.R.	E.T.R.	EXISTING TO REMAIN
F.F.E.	F.F.E.	FINISH FLOOR ELEVATION (FIRST FLOOR)
F&I	F&I	FURNISH AND INSTALL
G&CO	G&CO	GROUND CLEANOUT
INV.	INV.	INVERT ELEVATION
N.T.S.	N.T.S.	NOT TO SCALE
WQS	WQS	WATER QUALITY STRUCTURE
V.I.F.	V.I.F.	VERIFY IN FIELD
TF	TF	TRAFFIC FLOW DIRECTION

GENERAL NOTES

- EXISTING CONDITIONS SHOWN WERE TAKEN FROM EXISTING CONDITIONS PLAN PREPARED BY ANDREWS SURVEY & ENGINEERING, INC. FOR THE TOWN OF MILLBURY DATED SEPTEMBER 25, 2019, LAST REVISED DECEMBER 30, 2020.
- CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO LAYOUT ON THE GROUND ALL NEW ELEMENTS OF WORK. THE NEW WORK IS TO BE COMPLETED, MARKED, AND LAID OUT ON THE GROUND, REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. IF ANY WORK IS INSTALLED PRIOR TO THE ABOVE REQUIREMENT BEING MET, AND IF THE WORK IS NOT SATISFACTORY IN LAYOUT TO THE ARCHITECT, CONTRACTOR SHALL REPLACE THE WORK AT NO COST.
- PRIOR TO ANY EXCAVATION, IN ADDITION TO "DIG SAFE", NOTIFY APPROPRIATE UTILITY COMPANY OR AUTHORITY TO VERIFY EXACT DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES. LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT UTILITIES IN THE FIELD WHETHER OR NOT SHOWN ON THE DRAWINGS.
- THE DOCUMENTS MAY INDICATE RESULTS OF BORINGS AND/OR TEST PITS. THESE INVESTIGATIONS AND RESULTANT INTERPRETATIONS WERE MADE FOR THE SOLE PURPOSE OF PROVIDING DESIGN DATA FOR THE USE OF THE DESIGN TEAM ONLY. INTERPRETATION OF THE DATA FOR PURPOSES OF CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DURING THE COURSE OF CONSTRUCTION, ALL INTERPRETATIONS OF SOIL SUITABILITY SHALL BE MADE BY THE ARCHITECT. THE DECISION OF THE ARCHITECT SHALL BE FINAL AND BINDING ON THE CONTRACTOR.
- REFER TO THE SPECIFICATIONS. IN ADDITION TO THOSE REQUIREMENTS, SITE PREPARATION SHALL ALSO INCLUDE THE FOLLOWING:
 - IN THE COURSE OF INSTALLING THE UNDERGROUND UTILITIES, REMOVE ANY ABANDONED FOUNDATION, UTILITY STRUCTURES, ETC., ENCOUNTERED WHICH INTERFERE WITH THE UTILITY WORK. ALL SUCH STRUCTURES SHALL BE COMPLETELY REMOVED AND SHALL BE BACKFILLED WITH GRAVEL COMPACTED IN 9" LIFTS TO 95% COMPACTION TO 6" BELOW THE BOTTOM OF THE PIPE AND UTILITY.
 - IF DURING EXCAVATION THE TRENCH WIDTH EXCEEDS THE SUM OF THE PIPE O.D. PLUS 2'-0" PLACE AND COMPACT THE FILL TO 12" ABOVE THE PIPE AND RE-EXCAVATE TO REQUIRED GRADES.
 - AT THE POINT WHERE BULK EARTH MOVING HAS BEEN COMPLETED TO THE SUBGRADE LEVEL AND PRIOR TO PLACING UTILITIES, CURBING, OR PAVING, PROOF ROLL THE ENTIRE AREA IN THE PRESENCE AND UNDER THE SUPERVISION OF THE SOILS LABORATORY. PROOF-ROLLING SHALL CONSIST OF MAKING NOT LESS THAN (5) PASSES OVER THE AREA WITH A VIBRATOR DRUM ROLLER WEIGHING AT LEAST 10,000 LBS. THE SOILS LAB WILL CONDUCT FIELD DENSITY TESTS AND WILL DETERMINE CORRECTIVE MEASURES TO BE DONE, IF ANY, BASED ON THE PROOF-ROLLING.
- ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF MILLBURY SPECIFICATIONS.
- FIRE SERVICE PIPING SHALL BE CLASS S2 DOUBLE CEMENT LINED DUCTILE IRON WITH TYTON JOINTS. FITTINGS SHALL BE 350 LB. GREY IRON CASTINGS WITH MECHANICAL JOINT ENDS, ALL BENDS, TEES, ETC., SHALL BE JOINT RESTRAINED BY THE USE OF CONCRETE THRUST BLOCKS. METALLIC BACKED TRACE TAPE WITH WORDING PRINTED ON THE TAPE INDICATING A BURIED WATER LINE SHALL BE INSTALLED ONE (1) FOOT ABOVE THE PIPE.
- WATER SERVICE PIPING SMALLER THAN 4" SHALL BE TYPE-K COPPER TUBING CONFORMING TO AWWA REQUIREMENTS WITH A 200 PSI RATING, AND WITH A CTS CURB STOP VALVE WITH NO WASTE DRAIN BY FORD METER COMPANY. METALLIC BACKED TRACE TAPE WITH WORDING PRINTED ON THE TAPE INDICATING A BURIED WATER LINE SHALL BE INSTALLED ONE (1) FOOT ABOVE THE PIPE.
- GATE VALVES SHALL BE CAST IRON BODY BRONZE MOUNTED, 200 PSI, COMPLETE WITH ROAD BOX AND CONFORMING IN EVERY RESPECT TO LOCAL SPECIFICATIONS.
- STORM DRAINS 12" AND OVER SHALL BE ADS N-12 WATER TIGHT (WT) HDPE PIPE (H-20) WITH WATER TIGHT RUBBER GASKET, JOINT UNLESS NOTED OTHERWISE, JOINTS SHALL MEET OR EXCEED ASTM D3212 LAB TEST AND ASTM C899 WATER TIGHT EXFILTRATION FIELD TEST.
- SEWER PIPING AND STORM DRAINS 10" AND UNDER SHALL BE MANVILLE ASTM D-3034 SDR-35 P.V.C. SEWER PIPE WITH PUSH-ON RUBBER RING JOINTS. JOINTS SHALL MEET OR EXCEED ASTM F1417 WATER TIGHT FIELD TEST.
- SEWER LINES SHALL BE INSTALLED AT MINIMUM 10 FOOT HORIZONTAL SEPARATION FROM ANY PROPOSED OR EXISTING WATER LINES.
- WHENEVER SEWER LINES MUST CROSS WATER LINES THE SEWER SHALL BE INSTALLED SO THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN, WHERE 18 INCH VERTICAL SEPARATION & 10 FEET HORIZONTAL SEPARATION CAN NOT BE MET AT WATER AND SEWER CROSSINGS, BOTH THE WATER AND SEWER PIPE SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT-LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF CROSSING. BOTH PIPES SHALL BE PRESSURE TESTED BY AN APPROVED METHOD TO ASSURE WATER TIGHTNESS.
- WHENEVER UTILITIES OR STRUCTURES ARE TO BE INSTALLED WITHIN CITY/TOWN PUBLIC OR PRIVATE LAYOUT, THE EXCAVATION SHALL BE BACKFILLED WITH FLOWABLE FILL. ALL AREAS OF ROADWAY PAVEMENT & WALKWAYS DISTURBED DURING CONSTRUCTION SHALL BE RE-PAVED PER LOCAL DPW STANDARDS.
- WHENEVER ELECTRIC DUCT BANKS/CONDUITS MUST CROSS ANY UTILITY LINE SERVICE THE ELECTRIC DUCT BANKS/CONDUITS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE ELECTRIC DUCT BANKS/CONDUITS ARE AT LEAST 12" ABOVE THE TOP OF THE UTILITY SERVICE. WHERE 12 INCH VERTICAL SEPARATION CAN NOT BE MET ABOVE THE TOP OF THE UTILITY SERVICE, THE ELECTRIC DUCT BANKS/CONDUITS SHALL BE RUN 12" BELOW THE BOTTOM OF THE UTILITY SERVICE.
- CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE EXCAVATION AND BACKFILL SERVICES TO THE LOCAL GAS COMPANY FOR THE INSTALLATION OF NEW GAS SERVICE AND/OR THE REMOVAL OF EXISTING GAS SERVICES. COORDINATE ALL INSTALLATIONS AND REMOVAL OF GAS SERVICES WITH LOCAL GAS CO.
- AT LEAST 20 DAYS PRIOR TO SITE DISTURBANCE, THE CONTRACTOR SHALL PREPARE AND SUBMIT THE EPA NOTICE OF INTENT (N.O.I.) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE EPA NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS (NPDES) GENERAL PERMIT. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PER THE REQUIREMENTS OF THE EPA GENERAL PERMIT. AT PROJECT COMPLETION CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T.) TO THE EPA.
- IN THE EVENT THE CONTRACTOR IS TO INSTALL TOP COURSE OF PAVEMENT 60 OR MORE DAYS AFTER INSTALLATION OF BINDER COURSE, THE CONTRACTOR SHALL INSTALL ALL CATCH BASIN GRATES AND MANHOLE COVERS AT GRADE WITH BINDER COURSE AND SHALL BE RESPONSIBLE FOR RAISING STRUCTURES TO FINISHED GRADE.

EROSION & SEDIMENT CONTROL NARRATIVE

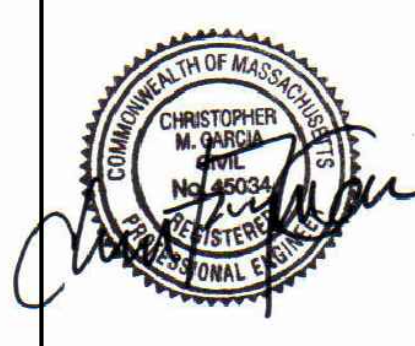
- EROSION CONTROL MEASURES SHOWN HEREIN ARE A MINIMUM. CONTRACTOR SHALL FURNISH THE SERVICES OF AN INDEPENDENT PROFESSIONAL ENGINEER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL TO PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). PRIOR TO COMMENCEMENT OF DEMOLITION SITE PREPARATION OR EARTHWORK SAID PLAN SHALL BE IMPLEMENTED. THE INITIAL METHOD OUTLINED IS INTENDED TO ROUTE ALL PRACTICABLE SURFACE WATER FROM THE EXCAVATION AREA INTO EROSION CONTROL FACILITIES. THE CONTRACTOR SHALL INSTALL ANY ADDITIONAL PROTECTIVE MEASURES AS MAY BE REQUIRED TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION.
- STAKE THE LIMIT OF WORK TO ENSURE THAT ALL WORK WILL BE INSIDE THE EROSION CONTROL FACILITY. THE LIMIT OF WORK WILL BE INDICATED BY ORANGE CONSTRUCTION MESH. THE MESH WILL INCLUDE BUILDINGS, PARKING FACILITIES, ACCESS ROADS, DETENTION/RETENTION BASINS, EQUIPMENT STAGING AREAS AND ALL MATERIAL STOCKPILE AND HANDLING AREAS.
- PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES ON SITE, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON SITE TO ESTABLISH SUPERVISORY AND INSPECTION PROCEDURES FOR SEDIMENT AND EROSION CONTROL MEASURES. THIS MEETING SHALL BE ATTENDED BY THE CONTRACTOR, APPLICANT/OWNER, ARCHITECT/ENGINEER AND THE LOCAL EROSION CONTROL AGENT.
- THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR PROTECTION OF ANY LANDS OR PROPERTIES AS MAY BE SUBJECT TO ANY AFFECT OR BY-PRODUCT OF HIS DEMOLITION/CONSTRUCTION EFFORT. SPECIAL CARE SHALL BE TAKEN TO AVOID EROSION OF FILL OR CUT SLOPES ONTO ADJACENT PROPERTIES OR DOWNSTREAM SILTATION OF DIVERSION OF EXISTING DRAINAGE. ANY DAMAGE IS TO BE CORRECTED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER.
- GENERAL SEQUENCE SHALL BE AS FOLLOWS:
 - ESTABLISH HAYBALE/SILT BARRIER & CONSTRUCTION FENCE PRIOR TO ANY EARTHWORK
 - INSTALL SITE ENTRANCE MATS AT SITE CONSTRUCTION ENTRANCES AS DETAILED.
 - CONSTRUCT TEMPORARY SETTLING BASINS AND INSTALL EROSION CONTROL DEVICES.
 - CLEAN AND GRUB VEGETATION AS REQUIRED, REMOVE AND DISPOSE OF ALL STUMPS FROM SITE.
 - PERFORM MASS EARTHWORK AND ROCK EXCAVATION FOR THE SITE.
 - PROTECT ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES FROM SEDIMENT BY THE USE OF DANDY BAGS AND HAY BALES AT CATCH BASIN AS DETAILED.
- AT NO TIME SHALL SILT LADEN WATER BE ALLOWED TO ENTER ENVIRONMENTALLY SENSITIVE AREAS AND EXISTING OR NEW DRAINAGE SYSTEMS. RUNOFF FROM DISTURBED SURFACES SHALL BE DIRECTED THROUGH SETTLING BASINS AND EROSION CONTROL MEASURES PRIOR TO ENTERING ANY ENVIRONMENTALLY SENSITIVE AREAS OR THE DRAINAGE SYSTEM.
- DEWATER ALL EXCAVATIONS AND TRENCHES, AS REQUIRED, WITH DEWATERING BAGS AND OUTFALLS AT CONTROLLED TEMPORARY SETTLING BASINS.
- INSTALL STONE REINFORCED SILT BARRIER AROUND STOCKPILE AREAS, TRUCK WASH DOWN AREAS AND VEHICLE FUELING AREAS.
- INSTALL TEMPORARY SEED OR MULCH AND EROSION CONTROL BLANKETS (ECB) TO ALL AREAS IMMEDIATELY UPON FORMATION OF GRADES.
- SURFACE STABILIZATION MUST BE IMPLEMENTED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN A PORTION OF THE SITE THAT HAS CEASED OR IS TEMPORARILY HALTED.
- TRUCK WASH DOWN AREA SHALL BE 20'(L)x20'(W) AT A MINIMUM SURROUNDED BY STONE REINFORCED SILT BARRIER. ACCUMULATED CONCRETE SHALL BE EITHER RECYCLED ON SITE OR DISPOSED OF AT AN APPROVED OFF-SITE LOCATION.
- CONTRACTOR REFUELING AREA SHALL BE 20'(L)x20'(W) AT A MINIMUM SURROUNDED BY STONE REINFORCED SILT BARRIER. AREA SHALL BE SCRAPED AND REDRESSED MONTHLY. THE DEPTH SHALL BE DETERMINED IN THE FIELD. SCRAPED MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION.
- AS SOON AS PAVING OF DRIVES IS COMPLETED, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF ANY ACCUMULATED SEDIMENT. THEREAFTER, CLEAN UP SHOULD FOLLOW LONG TERM MAINTENANCE PLAN.
- CONTINUALLY MONITOR ALL SILT BARRIER AND EROSION CONTROL DEVICES ON A WEEKLY BASIS, REPAIR ANY DAMAGED AREAS IMMEDIATELY. REMOVE ALL CAPTURED SEDIMENT AS REQUIRED AND DISPOSE OF. INSTALL ADDITIONAL MEASURES AS DIRECTED BY THE OWNER, LOCAL DPW AND THE ARCHITECT/ENGINEER.
- CONTRACTOR SHALL REDUCE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AS REQUIRED BY CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES SHALL BE SO SCHEDULED SO THAT THE LEAST AREA OF DISTURBED SOIL IS EXPOSED AT ONE TIME. IN DISTURBED AREAS NOT SUBJECT TO TRAFFIC, CONTRACTOR SHALL TEMPORARY SEEDING AND MULCHING OPERATIONS. IN DISTURBED AREAS SUBJECT TO TRAFFIC, CONTRACTOR SHALL SPRINKLE SURFACE WITH WATER TO MINIMIZE DUST. DUST CONTROL MEASURES SHALL BE MAINTAINED THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- REMOVE CONSTRUCTION FENCE, SILT BARRIER AND EROSION CONTROL MEASURES ONLY AFTER ESTABLISHMENT OF PERMANENT VEGETATION.

SITE OPERATIONAL PROCEDURES

- OPERATION PROCEDURES DURING CONSTRUCTION SHALL BE BY THE CONTRACTOR AFTER PROJECT COMPLETION OPERATION PROCEDURES SHALL BE THE RESPONSIBILITY OF THE OWNER AND ARE AS FOLLOWS:
- GOOD HOUSE KEEPING AND MATERIAL MANAGEMENT REDUCES THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE DEVELOPED BY THE CONTRACTOR WHICH SHALL INCLUDE THE FOLLOWING AT A MINIMUM:
 - ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. C. SUBSTANCES SHOULD NOT BE MIXED WITH ONE ANOTHER, UNLESS RECOMMENDED BY THE MANUFACTURER.
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF A CONTAINER.
 - THE SYSTEM'S MANAGER SHALL INSPECT THE SITE DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE, DURING ALL CONSTRUCTION PHASES.
 - ORIGINAL MATERIALS LABELS AND MATERIAL SAFETY DATA SHEETS SHALL BE KEPT; THEY RETAIN IMPORTANT INFORMATION.
 - PETROLEUM PRODUCTS:
 - ALL ON-SITE VEHICLES AND PARKING AREAS SHALL BE REGULARLY MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO PREVENT LEAKAGE
 - PETROLEUM PRODUCTS SHALL BE STORED UNDER COVER AND SHALL BE IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
 - FERTILIZERS:
 - FERTILIZERS SHALL ONLY BE USED IN THE MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER.
 - THE CONTENTS OF ANY UN-USED FERTILIZER SHALL BE TRANSFERRED TO A CLEARLY LABELED, SEALABLE PLASTIC BIN, TO AVOID SPILLAGE.
 - PAINTS, SOLVENTS:
 - ALL PAINTS AND SOLVENTS SHALL BE STORED IN ORIGINAL MANUFACTURER'S CONTAINERS IN A COVERED LOCATION.
 - THE USE OF PAINTS AND SOLVENTS SHALL, WHENEVER POSSIBLE, BE LIMITED TO SERVICE OR STORAGE BAYS. WHERE NOT POSSIBLE, THE WORK AREA SHALL BE PROTECTED WITH IMPERMEABLE DROP CLOTHES OR TARPS. AT NO POINT SHALL PAINT AND SOLVENTS BE USED IN PARKING OR ACCESS WAYS THAT ARE TRIBUTARY TO THE DRAINAGE SYSTEM.
 - SPILL CONTROL PRACTICES:
 - MANUFACTURER'S RECOMMENDED METHODS SHALL BE CLEARLY POSTED FOR SPILL CLEAN-UP AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF CLEAN-UP INFORMATION AND SUPPLIES.
 - MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP WILL BE KEPT ON-SITE IN A DESIGNATED MATERIAL STORAGE AREA. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, GLOVES, GOGGLES, ABSORBENT MATERIALS, SAND, SAWDUST AND PLASTIC & METAL TRASH CONTAINERS SPECIFICALLY KEPT AND LABELED FOR THIS PURPOSE.
 - ALL SPILLS WILL BE CLEANED-UP IMMEDIATELY AFTER DISCOVERY.
 - SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL BE REPORTED TO THE APPROPRIATE STATE, LOCAL OR FEDERAL AGENCY, AS REQUIRED BY-LAW.
 - THE SPILL PREVENTION PLAN WILL INCLUDE PROVISIONS TO ADAPT THE PLAN TO ENSURE THAT SPILLS WILL NOT REOCCUR, AND HOW TO CLEANUP THE SPILL IF THERE IS ANOTHER ONE.
 - SITE OPERATIONS AND DAILY USE SHALL CONSIDER THE ULTIMATE DISPOSITION OF STORMWATER AND OTHER SITE-GENERATED FORMS OF RUNOFF. THE WASHING OF VEHICLES SHALL BE LIMITED AREAS WITHIN THE BUILDING, AS THEY ARE SERVED BY THE FLOOR DRAIN SYSTEM. WASH WATER WITH ITS COMBINATION OF SOLVENTS, DETERGENTS AND OIL/GREASES SHOULD NOT BE ALLOWED TO ENTER ANY PART OF THE ON-SITE DRAINAGE SYSTEM.
 - SNOW PLOWING- SNOW PLOWING OPERATIONS SHALL STOCKPILE SNOW, ICE AND ACCUMULATED MATERIALS IN AREAS WHERE SNOW MELT WILL FLOW INTO THE ON-SITE DRAINAGE SYSTEMS, INCLUDING DRAINAGE BASINS. NO PLOWING OR STORAGE OF SNOW INTO WETLANDS OR BIO-RETENTION AREAS.
 - SALT USE SITE-WIDE SHALL BE APPLIED TO THE MINIMUM EXTENT POSSIBLE TO MAINTAIN SAFE CONDITIONS, AND ONLY IF NOT SPECIFICALLY EXCLUDED BY ANY SPECIAL CONDITIONS AS PART OF AN ORDER OF CONDITIONS ISSUED BY THE PLANNING BOARD.

APPROVAL UNDER SITE PLAN REVIEW AUTHORITY
MILLBURY PLANNING BOARD

DATE APPROVED: _____
DATE SIGNED: _____
SIGNATURES: _____



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CONSULTING ENGINEERS
100 STATE STREET, SUITE 200
MILLBURY, MA 01468

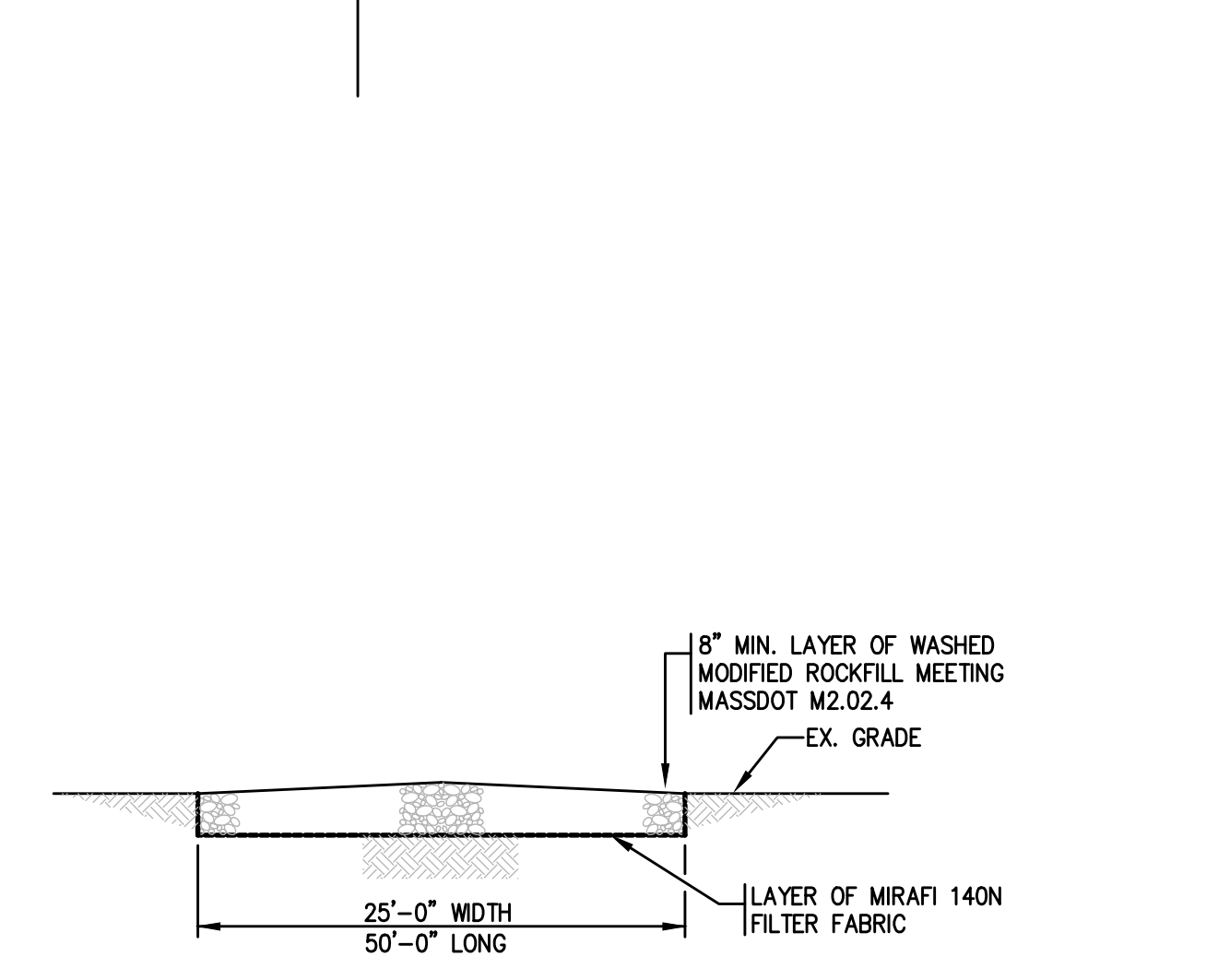
SITE PLAN REVIEW UPDATES:
MARCH 1, 2021
NOT FOR CONSTRUCTION

Millbury Fire Station
130 Elm Street, Millbury, MA
project number: 1902
Site Legend, Notes & Details

Scale: 1" = 20'
Drawn by: NCK

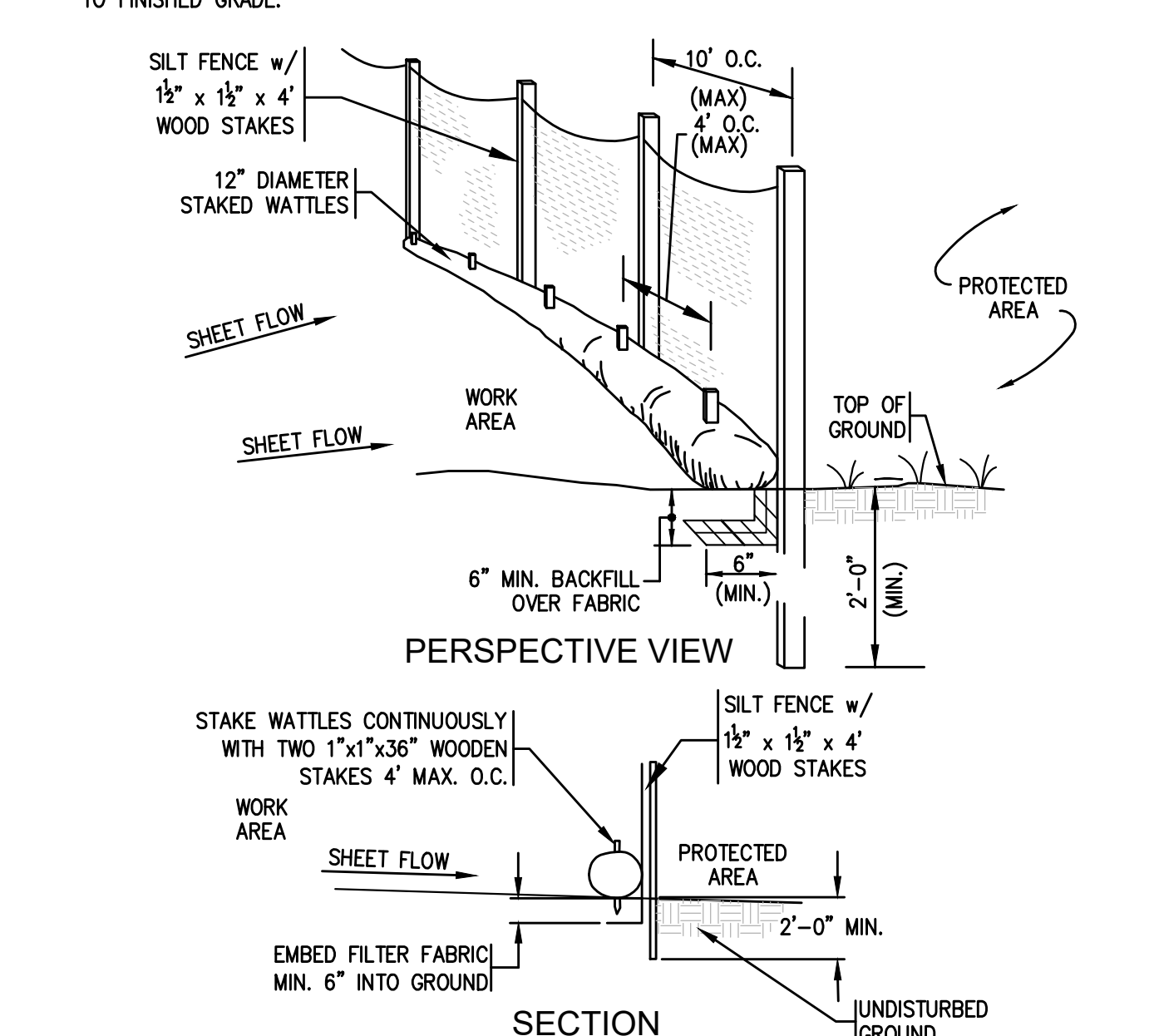
No.	Issue	Date
1	PLANNING BOARD 1/25/21	
2	PB REVISIONS	3/1/21

CO.1



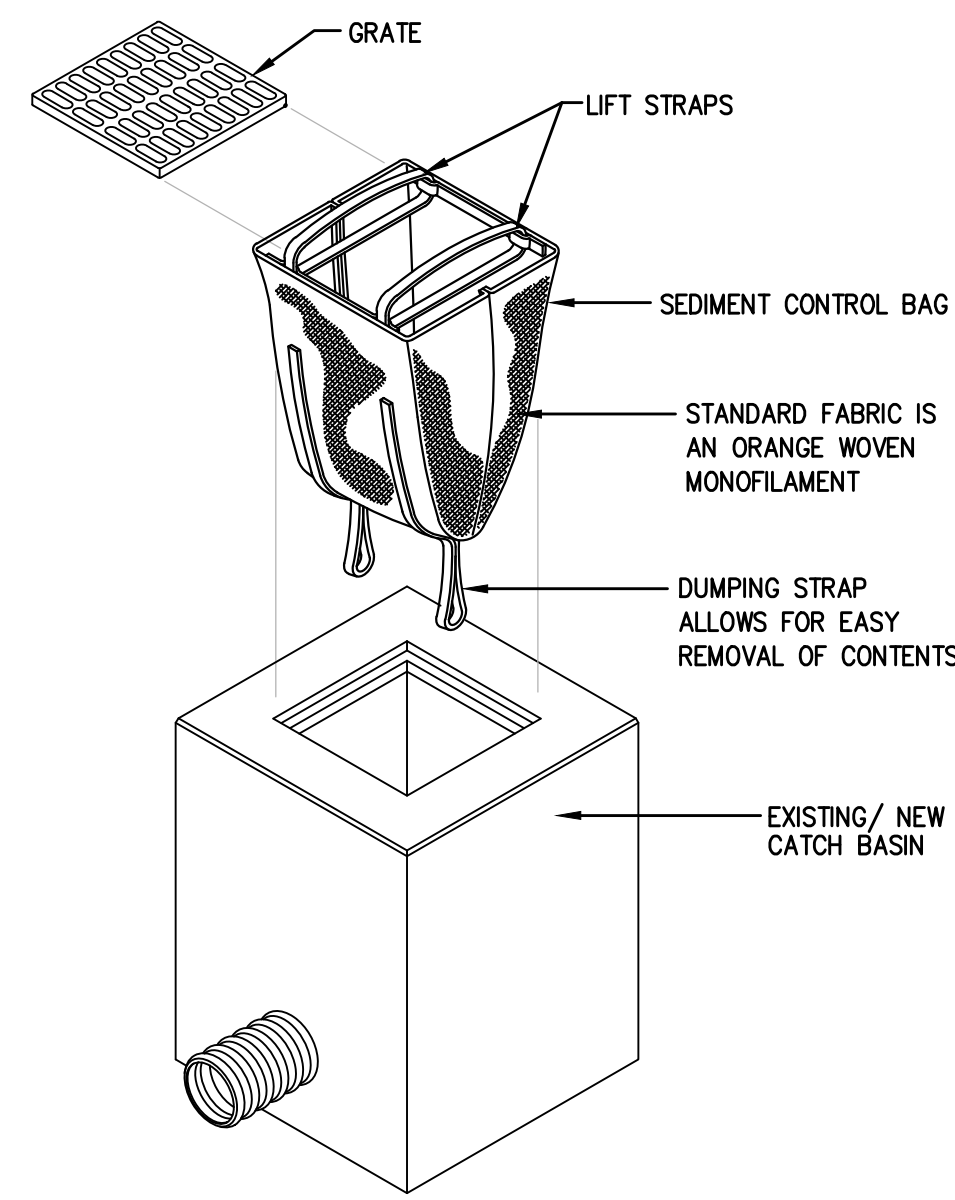
1 SITE ENTRANCE MAT DETAIL

N.T.S.
NOTE: IN THE EVENT THE CONTRACTOR IS TO INCLUDE ADDITIONAL SITE ENTRANCES ONTO THE PROJECT SITE, THE CONTRACTOR SHALL FURNISH & INSTALL AT NO ADDITIONAL COST TO THE OWNER AND SHALL CONFORM WITH THE SITE ENTRANCE MAT DETAIL.

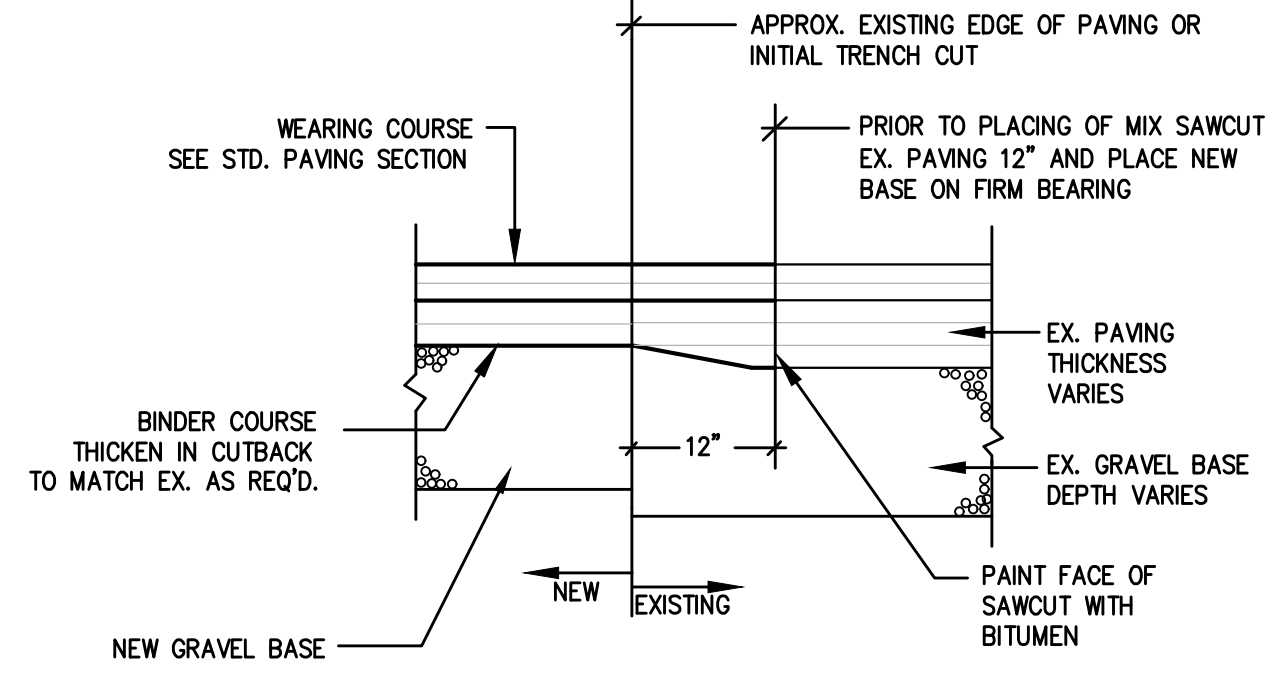


2 COMPOST WATTLE FILTER SOCK & FABRIC DETAIL

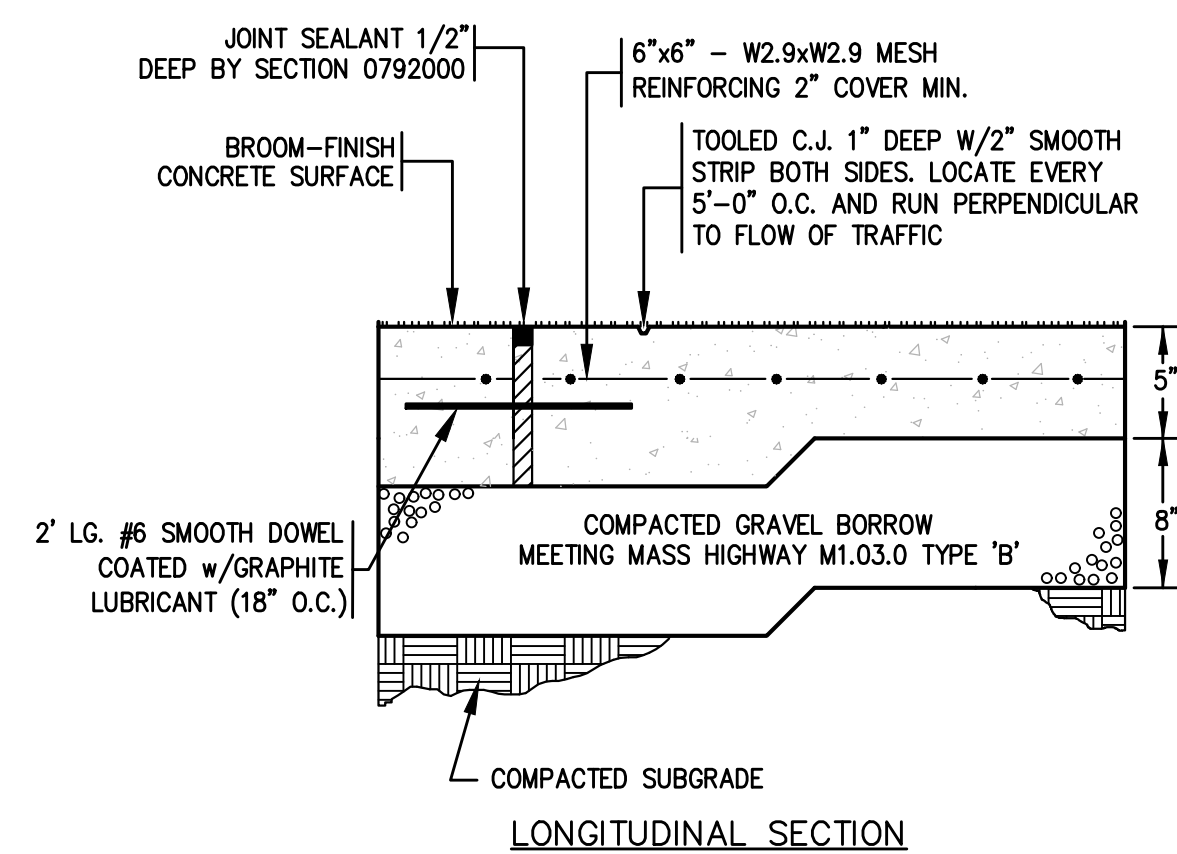
N.T.S.
NOTES:
1. FILTER SOCK SHALL BE 12" DIAMETER STRAW WATTLE BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
2. SOCKS TO BE FILLED WITH COMPACTED STRAW OR APPROVED EQUAL.



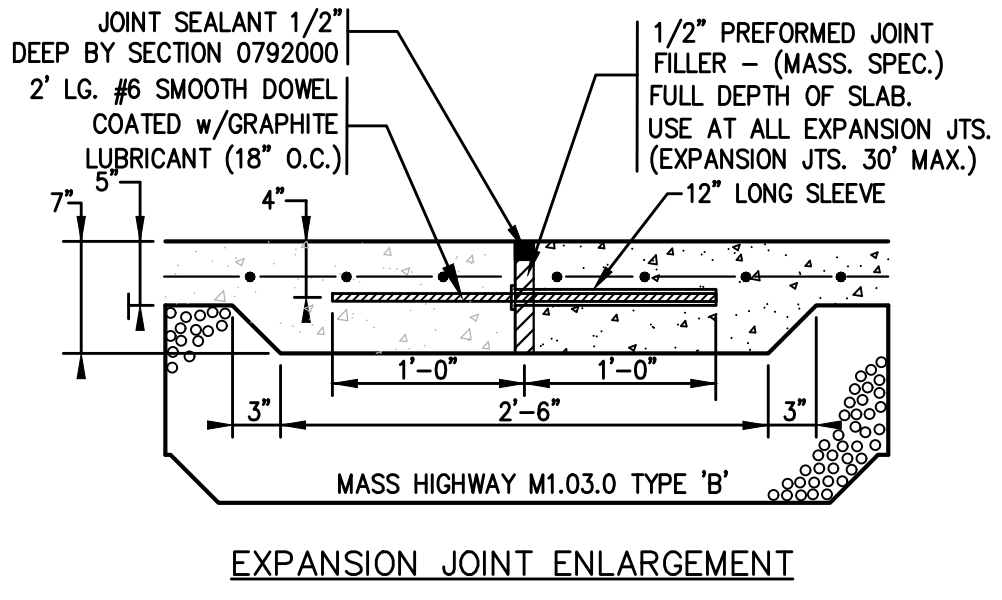
1 SEDIMENT CONTROL BAG
CO.2 N.T.S.



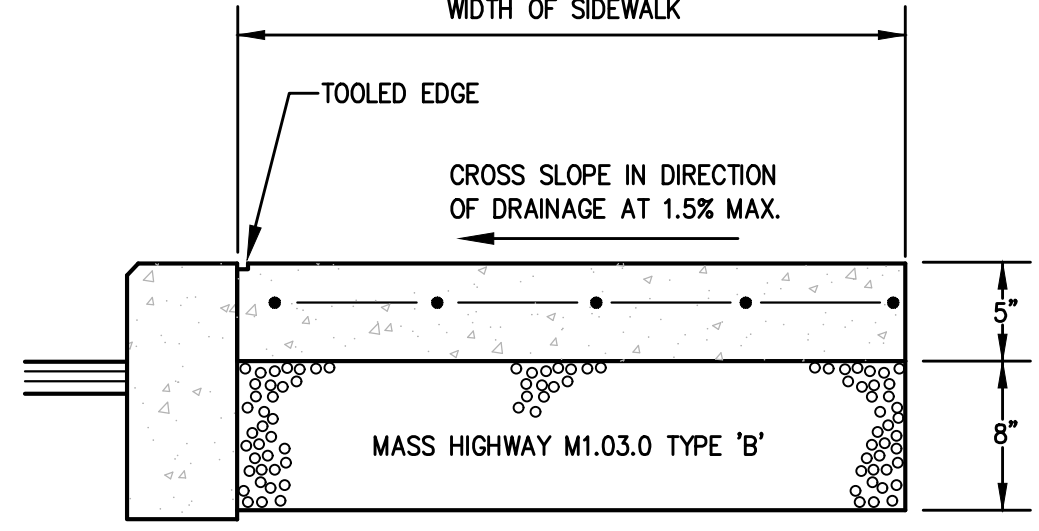
4 DETAIL OF PAVING ADDITION AT EXISTING AREAS
N.T.S.



LONGITUDINAL SECTION



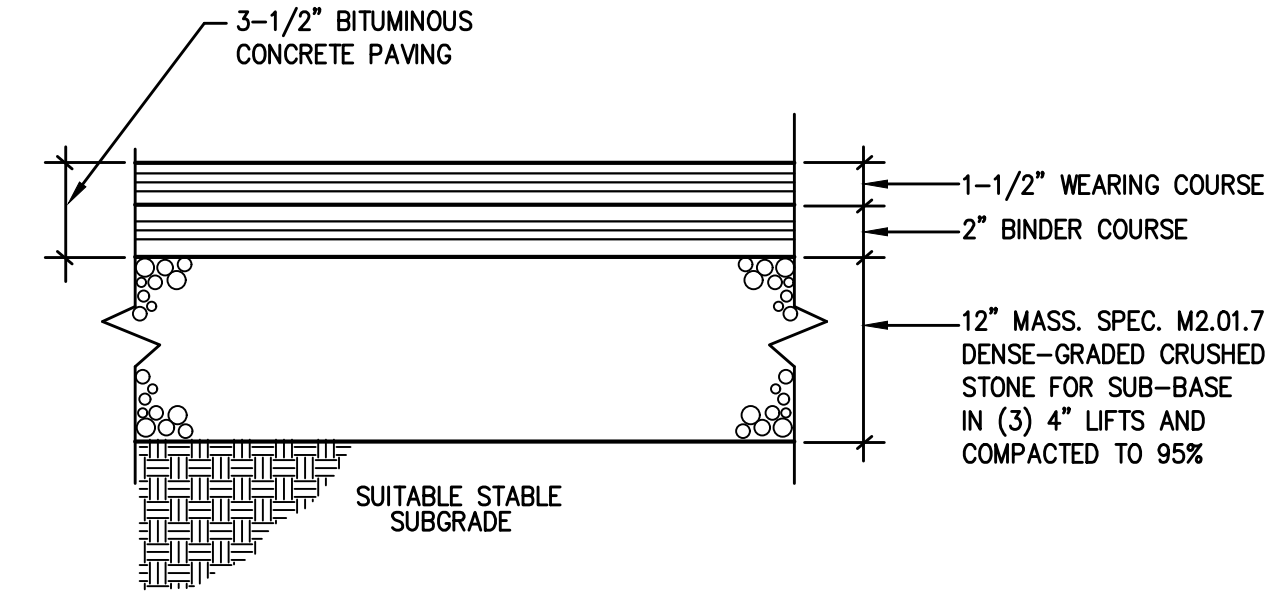
EXPANSION JOINT ENLARGEMENT



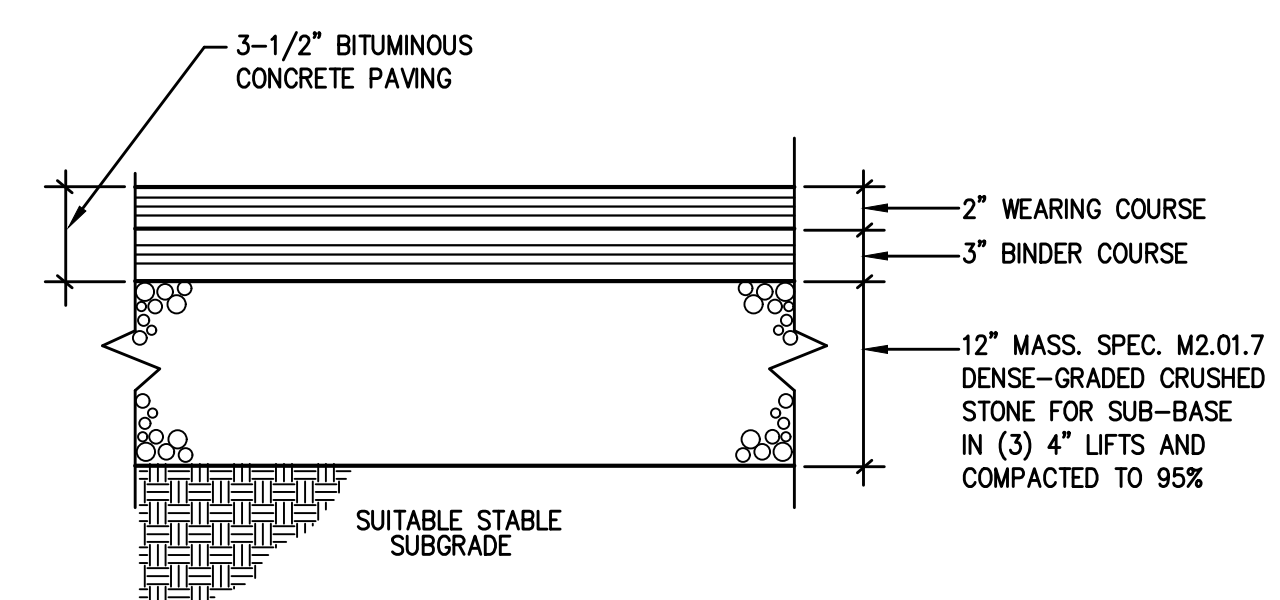
CROSS SECTION

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5 STANDARD PAVING SECTION
N.T.S.



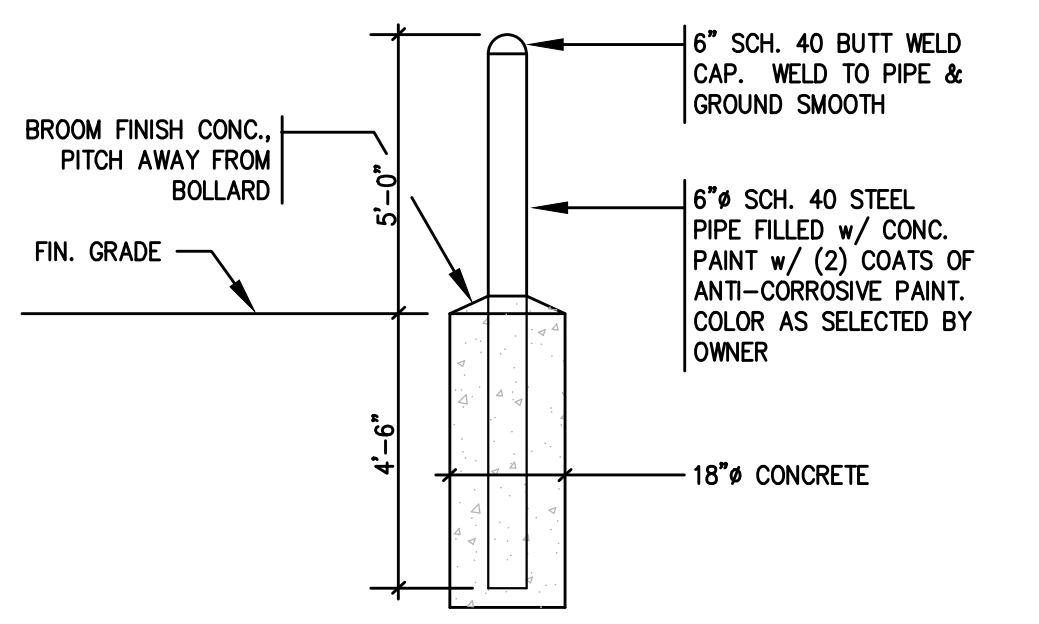
6 HEAVY DUTY PAVING SECTION
N.T.S.

8 CONCRETE SIDEWALK DETAIL
CO.2 N.T.S.

SIGN DESIGNATION CHART			
SIGN DESIGNATION	HEIGHT	WIDTH	SIGN
R1-1 (STOP)	30"	30"	
R7-B (ACCESSIBLE PARKING)	18"	12"	
R7-Bb (VAN ACCESSIBLE)	6"	12"	

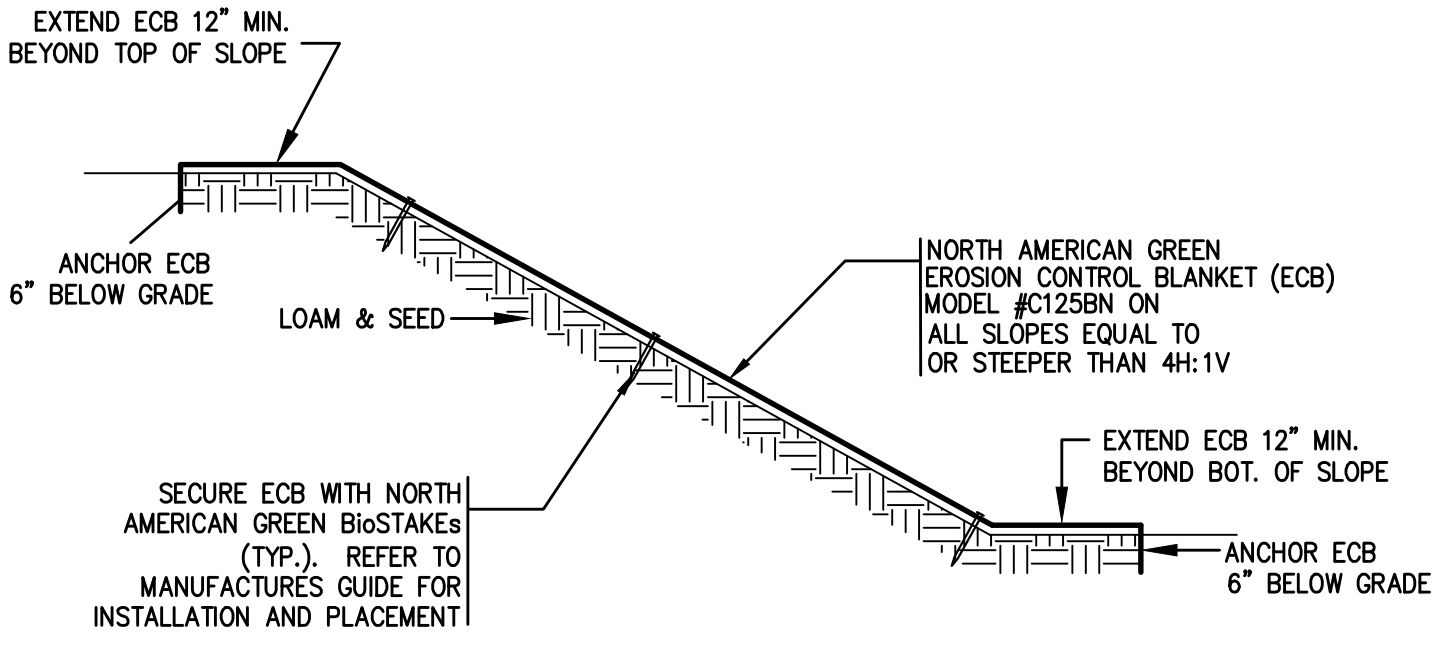
9 SITE SIGNAGE DESIGNATION & DIMENSION SCHEDULE
CO.2 N.T.S.

- NOTES:
- ALL TRAFFIC CONTROL AND WARNING SIGNS SHALL MEET THE MATERIAL REQUIREMENTS OF "ALUMINUM TYPE A" AS DEFINED IN SECTION 828 "TRAFFIC SIGNS" OF THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
 - ALL SIGNS SHALL CONSIST OF A WHITE BACKGROUND WITH HIGH CONTRAST BLACK LETTERS UNLESS OTHERWISE NOTED.
 - SIGN DESIGNATIONS TAKEN FROM THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).

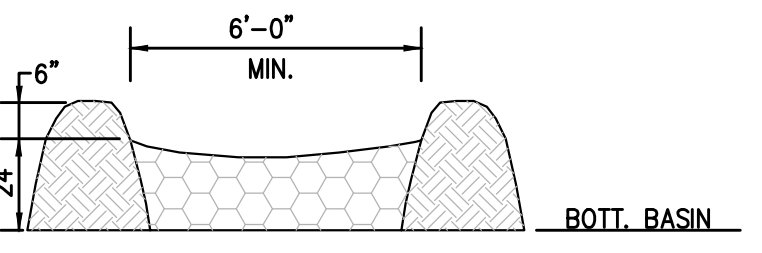


11 PROTECTIVE BOLLARD DETAIL
N.T.S.

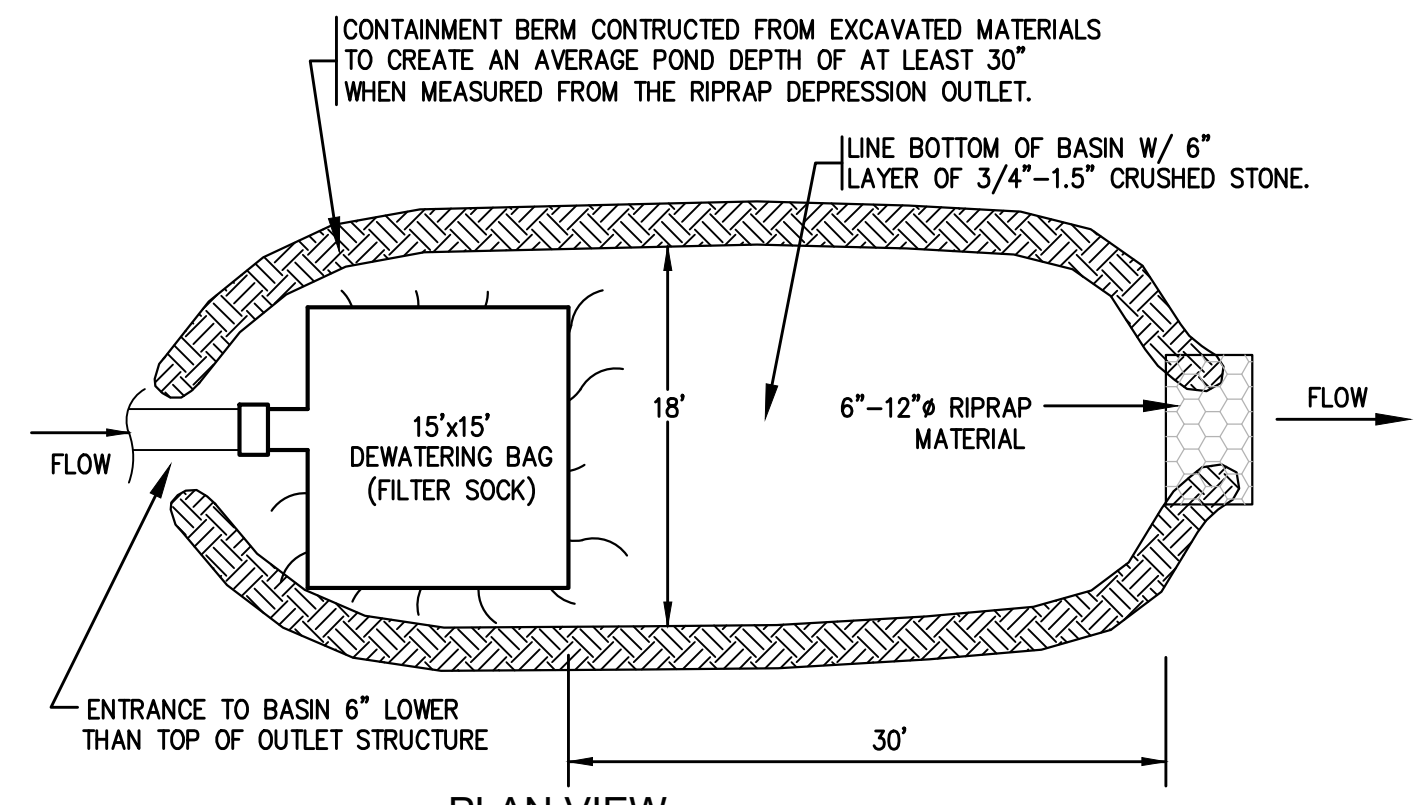
- NOTE:
- BOLLARD, GALVANIZED & PRIME COATED BY SECTION 055000.
PAINT BY SECTION 099000.



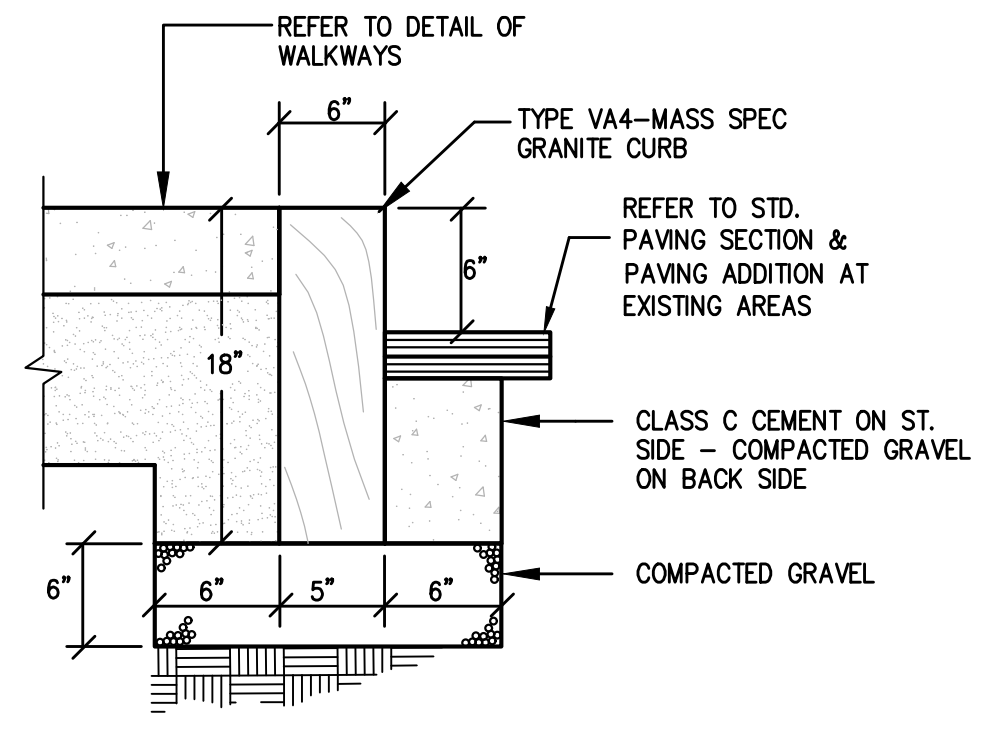
2 SLOPE PROTECTION TREATMENT DETAIL
CO.2 N.T.S.



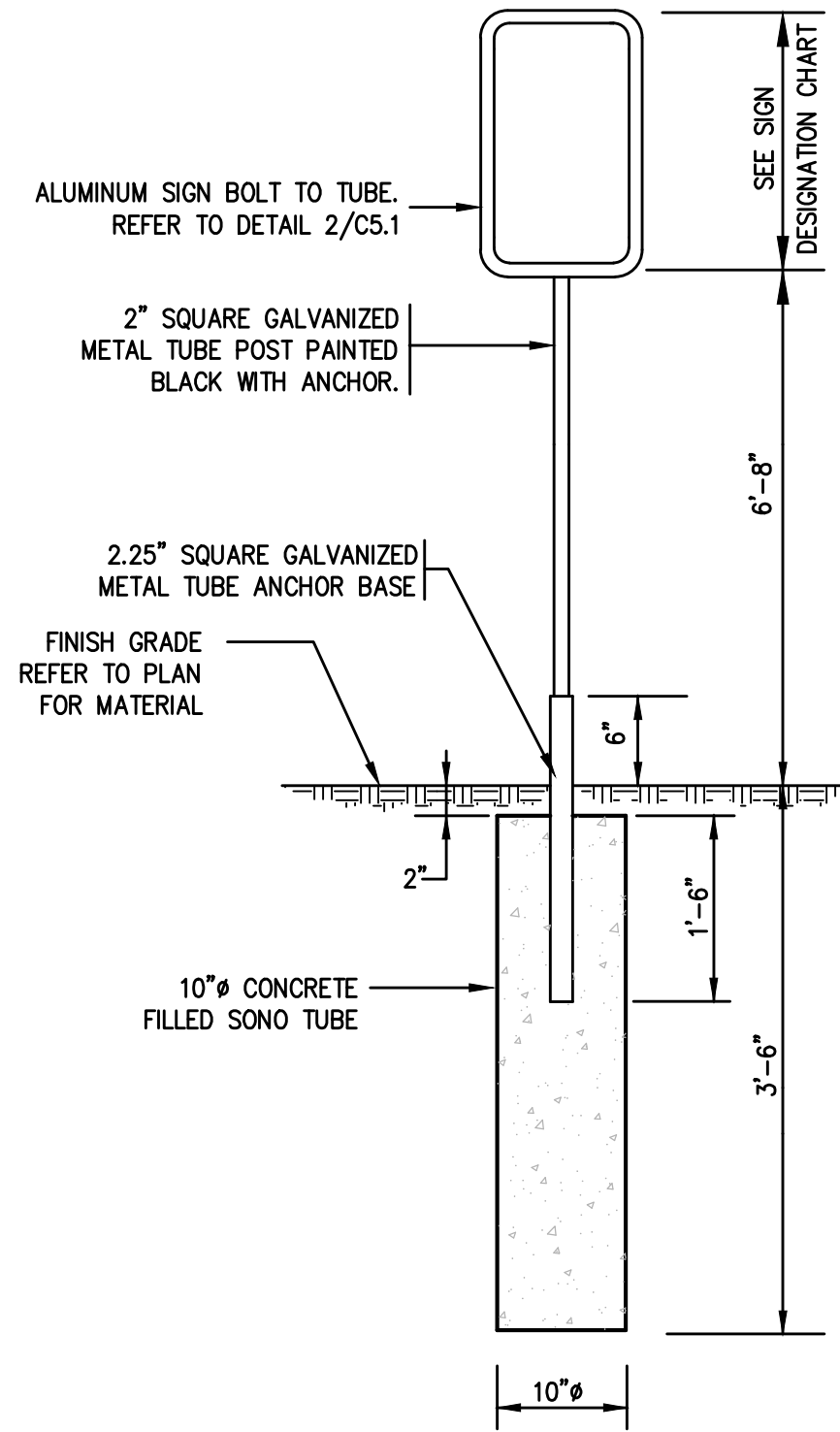
OUTLET VIEW



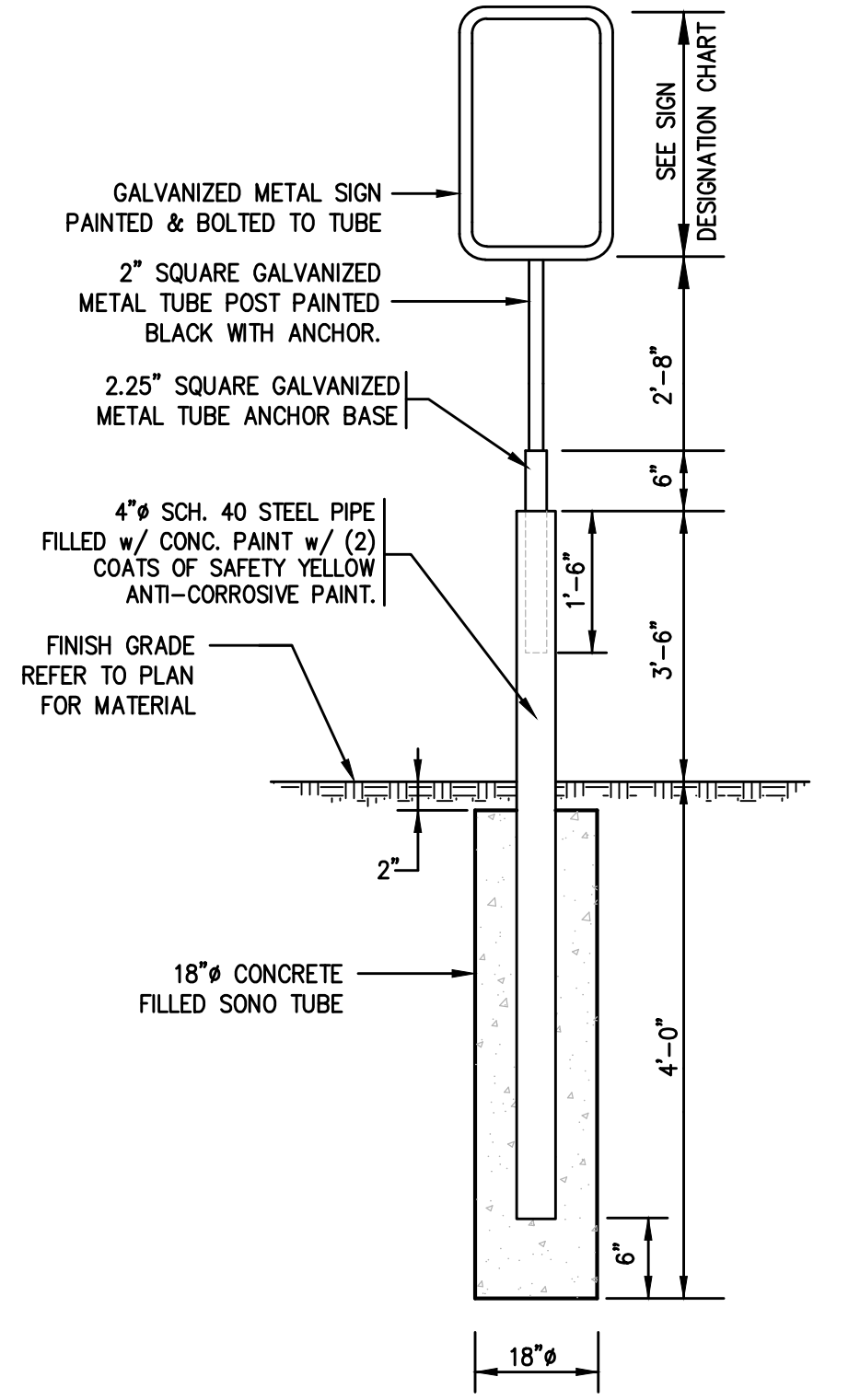
3 DETAIL OF DEWATERING BASIN
SCALE: N.T.S.



7 DETAIL OF VERTICAL GRANITE CURB
N.T.S.



10 SIGN POST DETAIL
N.T.S.



12 PROTECTIVE SIGN POST DETAIL
N.T.S.



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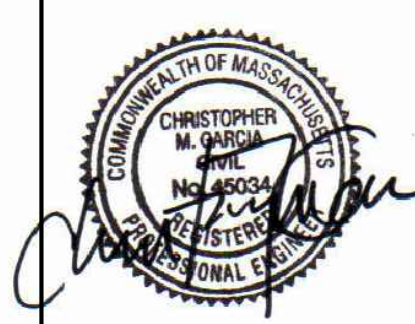
Millbury Fire Station
130 Elm Street, Millbury, MA
project number: 1902
Site Details

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Drawn by: NCK

No. Issue Date
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CO.2

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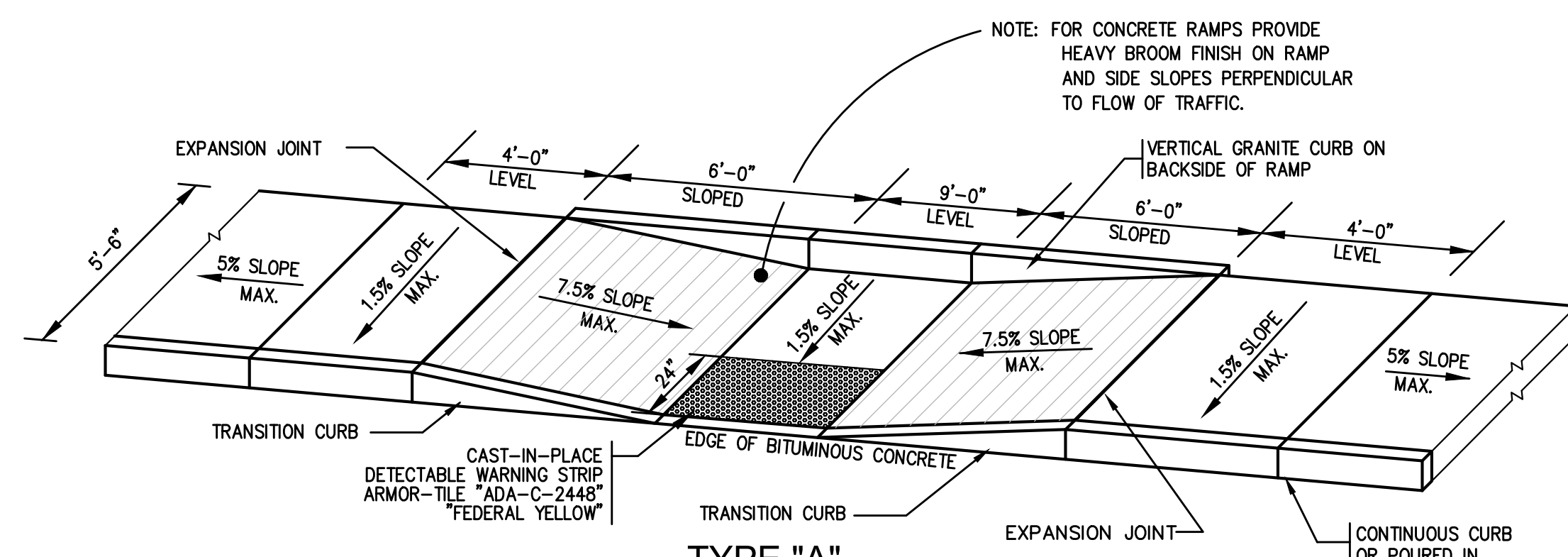
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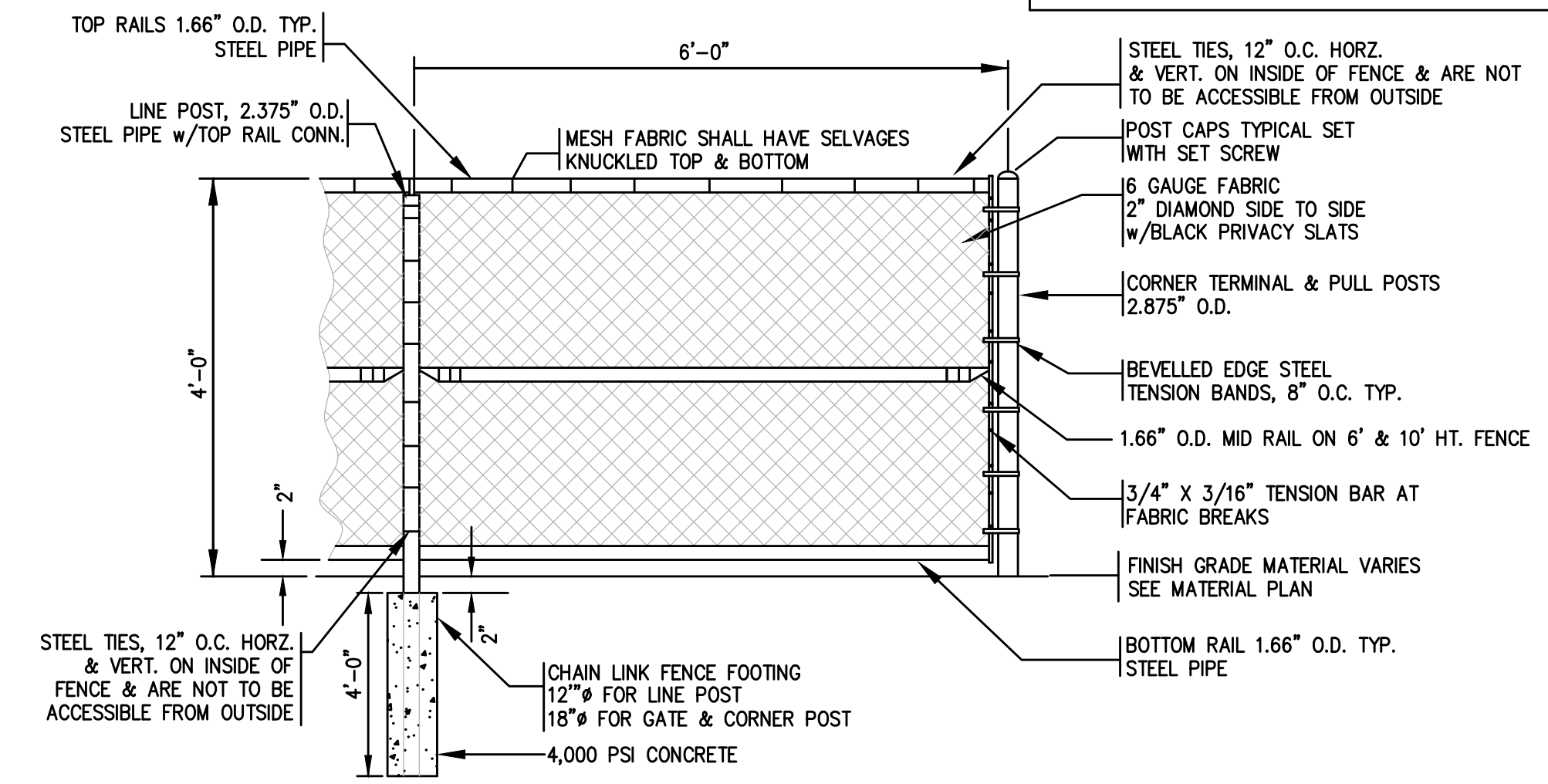
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200 STATE STREET, SUITE 2000, BOSTON, MA 02109
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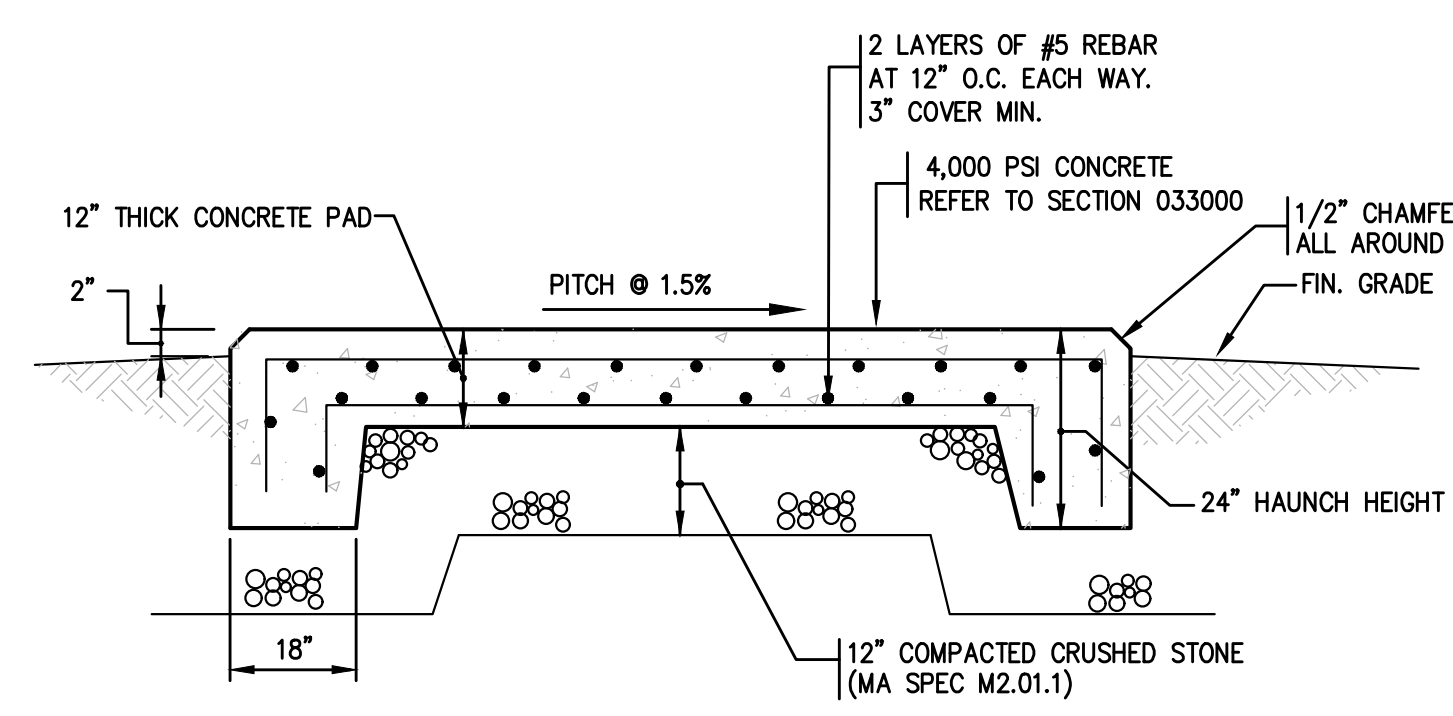
1 NOT USED
CO.3 N.T.S.



4 DETAIL OF ACCESSIBLE CURB CUT
CO.3 N.T.S.

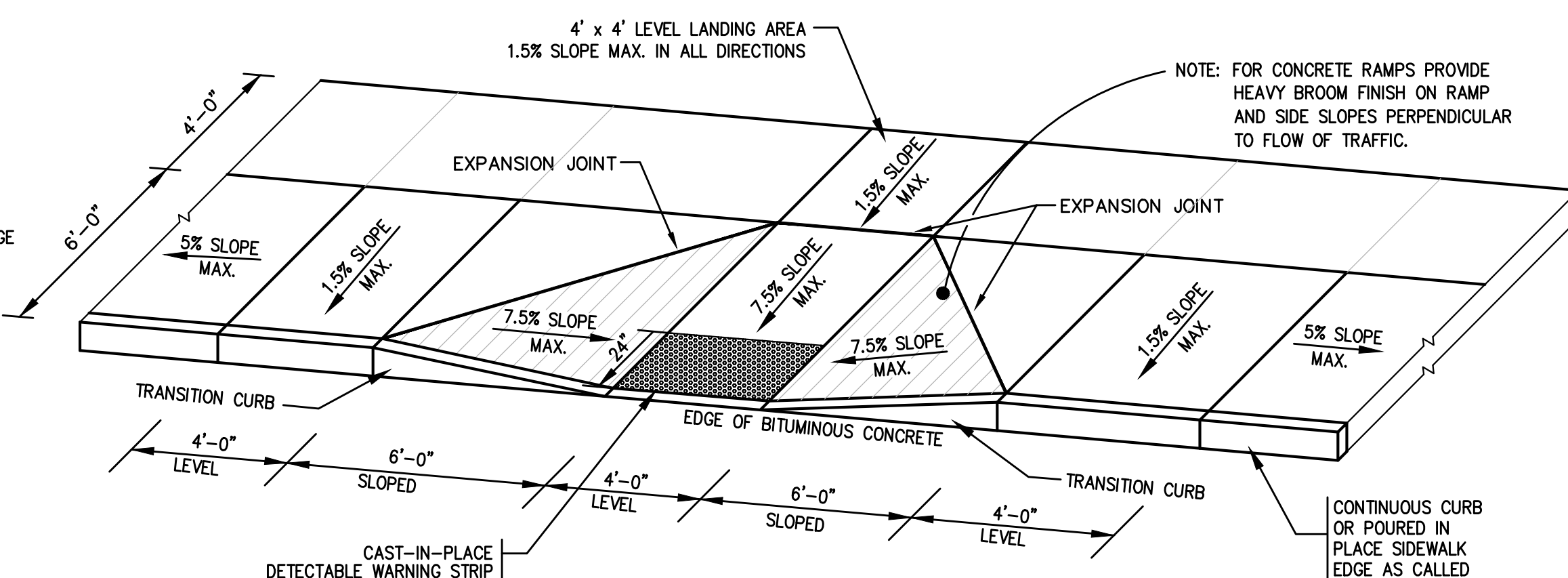


7 CHAIN-LINK FENCE DETAIL
CO.3 N.T.S.

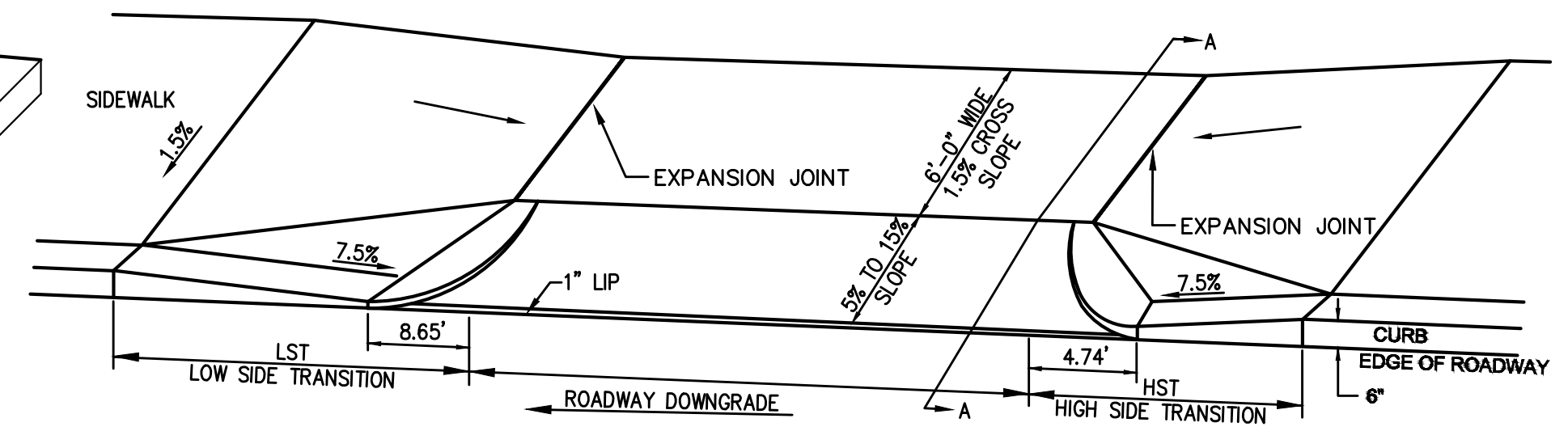


2 CONCRETE GENERATOR PAD DETAIL
CO.3 N.T.S.

- NOTE:
1. CONTRACTOR TO FURNISH & INSTALL ALL REQUIRED MATERIALS FOR ONE CAST-IN-PLACE CONCRETE GENERATOR PADS WITH THE FOLLOWING DIMENSIONS:
PAD 1: X.X'X' x XX.X'
 2. EXACT DIMENSIONS TO BE COORDINATED WITH THE APPROVED GENERATOR DIMENSIONS.

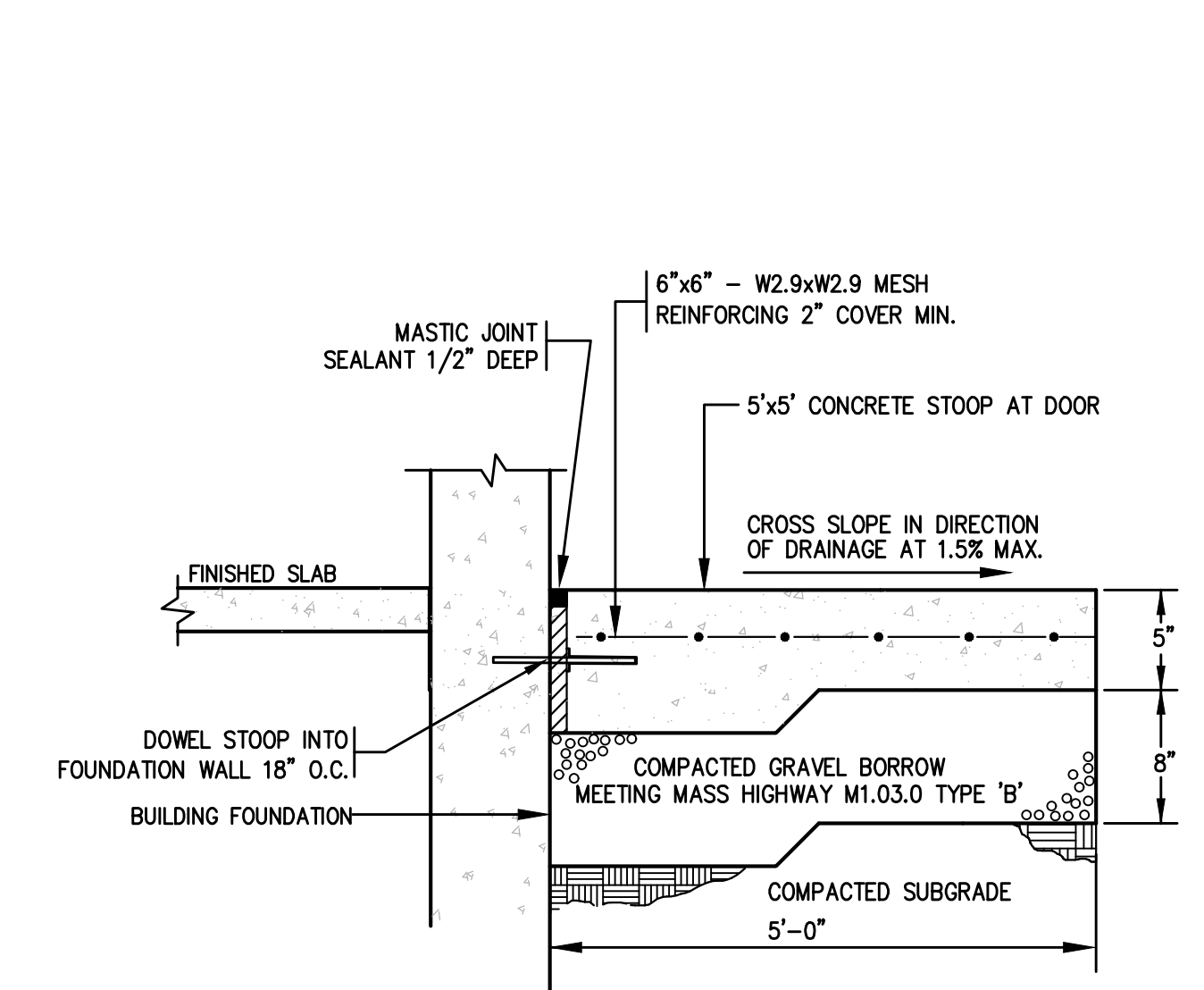


5 DETAIL OF ACCESSIBLE CURB CUT
CO.3 N.T.S.

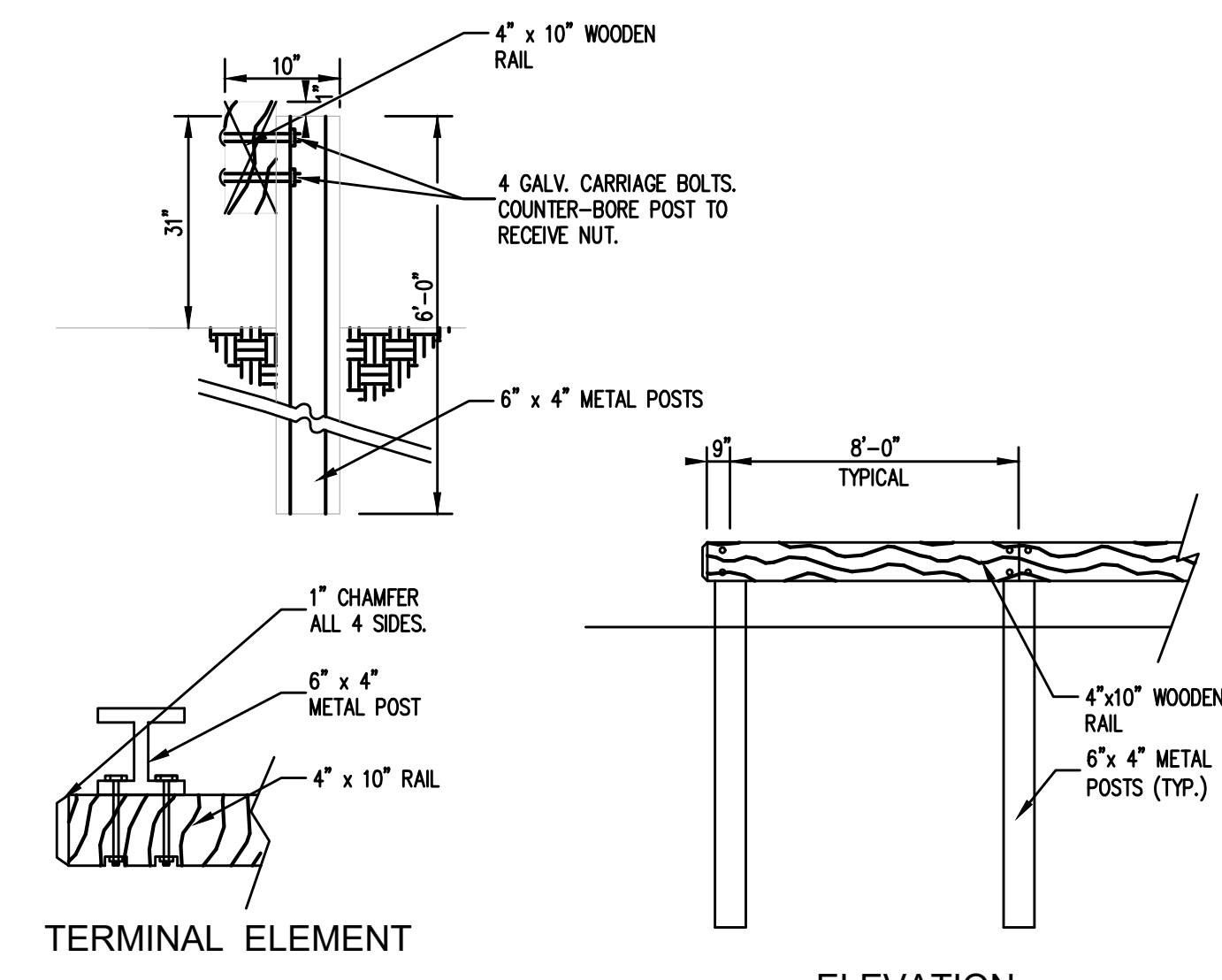


SECTION A-A

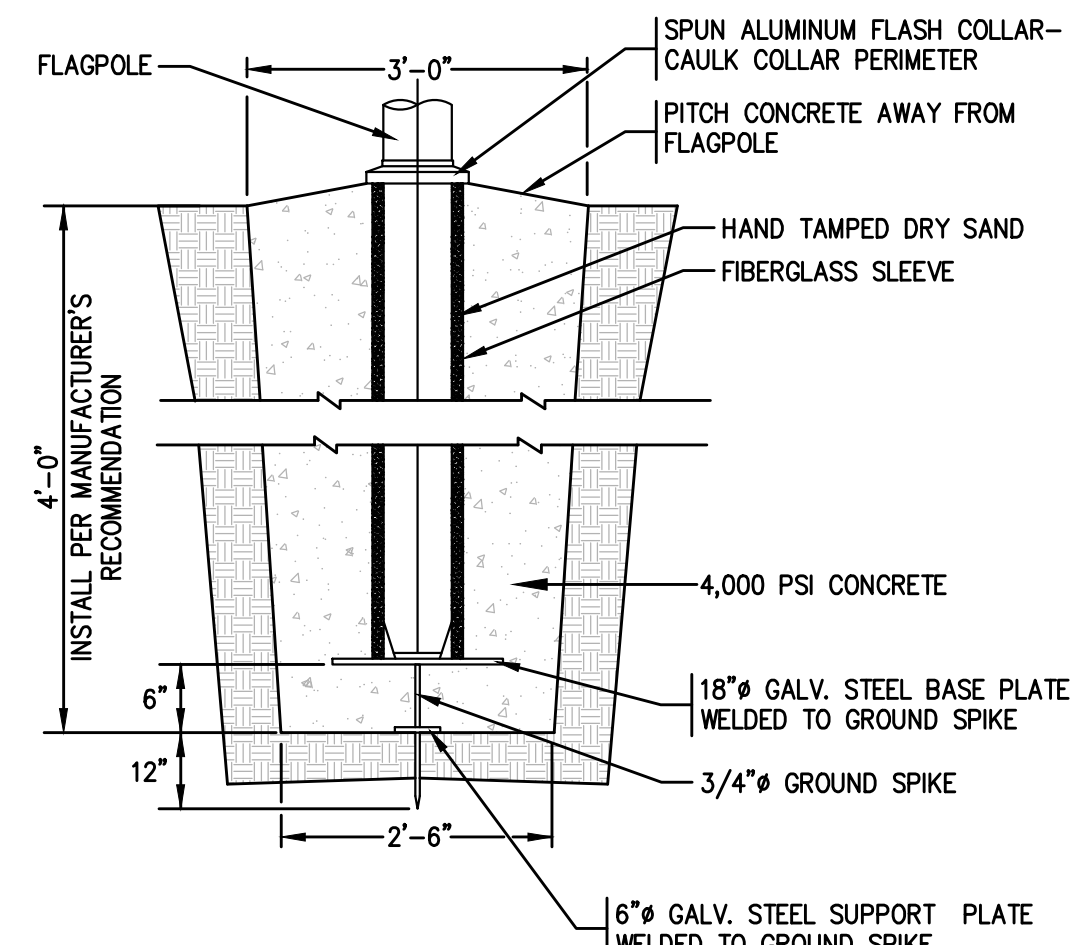
8 SIDEWALK THROUGH CONCRETE APRON
CO.3 N.T.S.



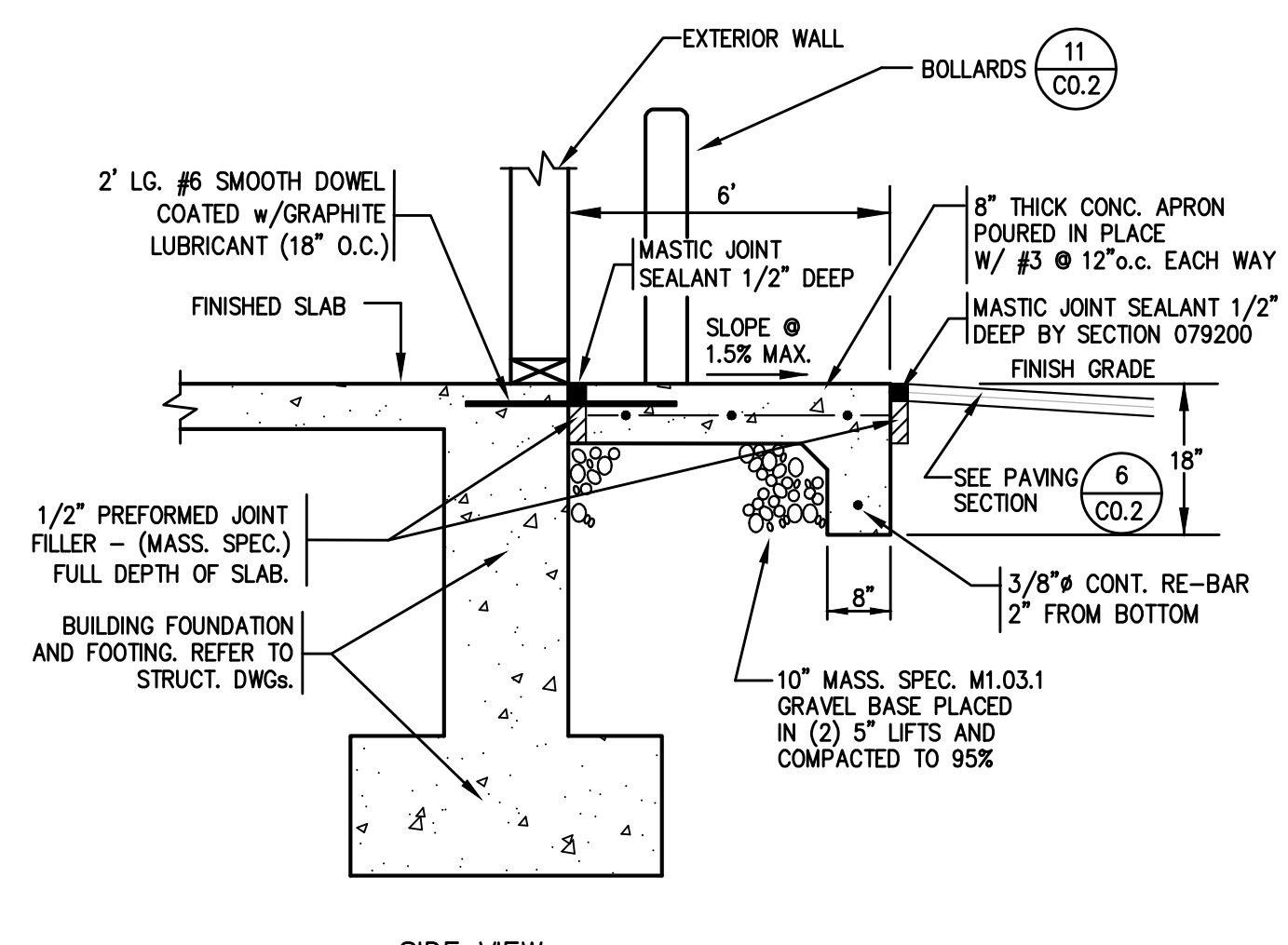
3 CONCRETE DOORWAY ENTRY PAD
CO.3 N.T.S.



6 WOOD GUIDE RAIL - METAL POSTS
CO.3 N.T.S.



9 FLAGPOLE FOOTING DETAIL
CO.3 N.T.S.



10 REINFORCED CONCRETE APRON
CO.3 N.T.S.

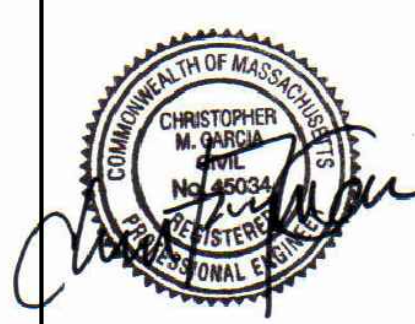
Millbury Fire Station
130 Elm Street, Millbury, MA
project number: 1902
Site Details

Scale: 1" = 20'
Drawn by: NCK

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CO.3

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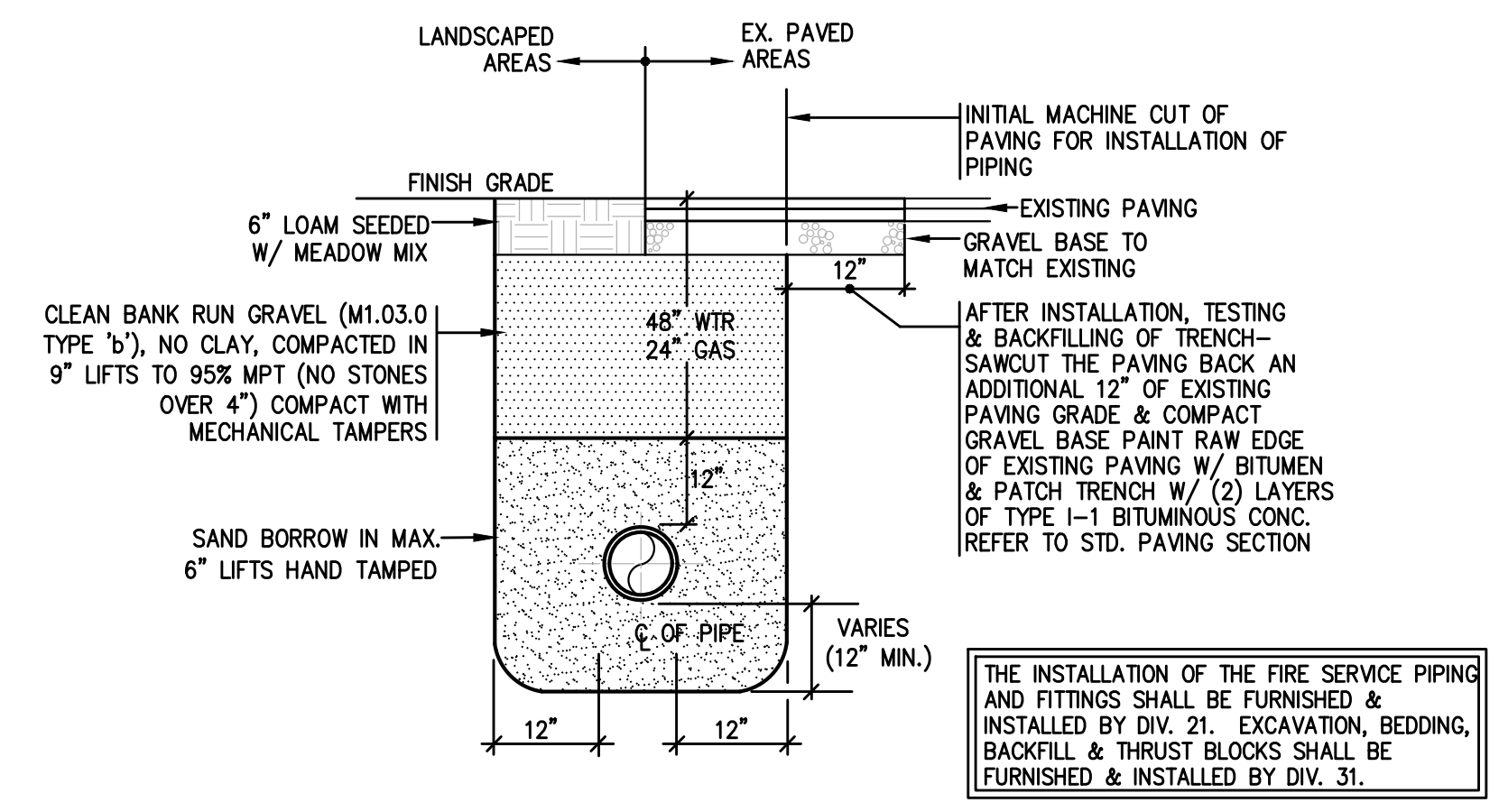
SITE PLAN REVIEW UPDATES:
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Millbury Fire Station
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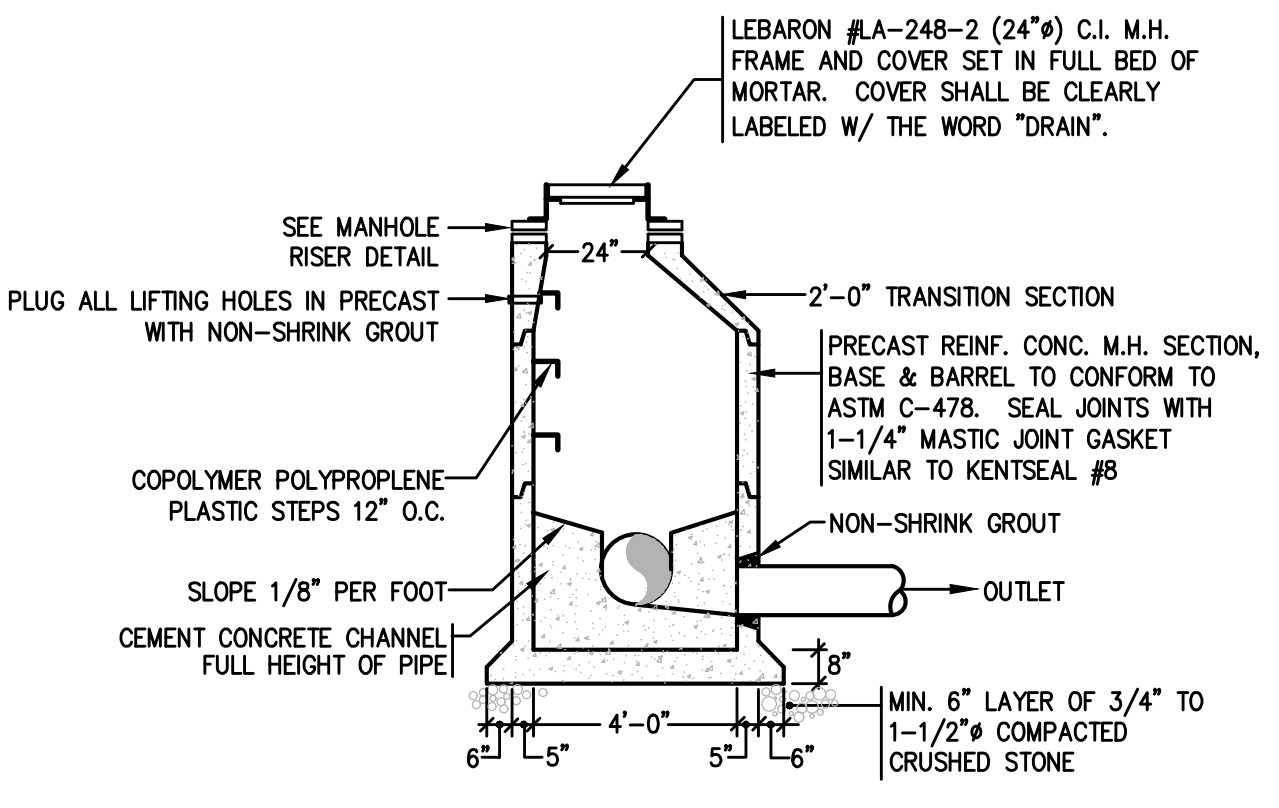
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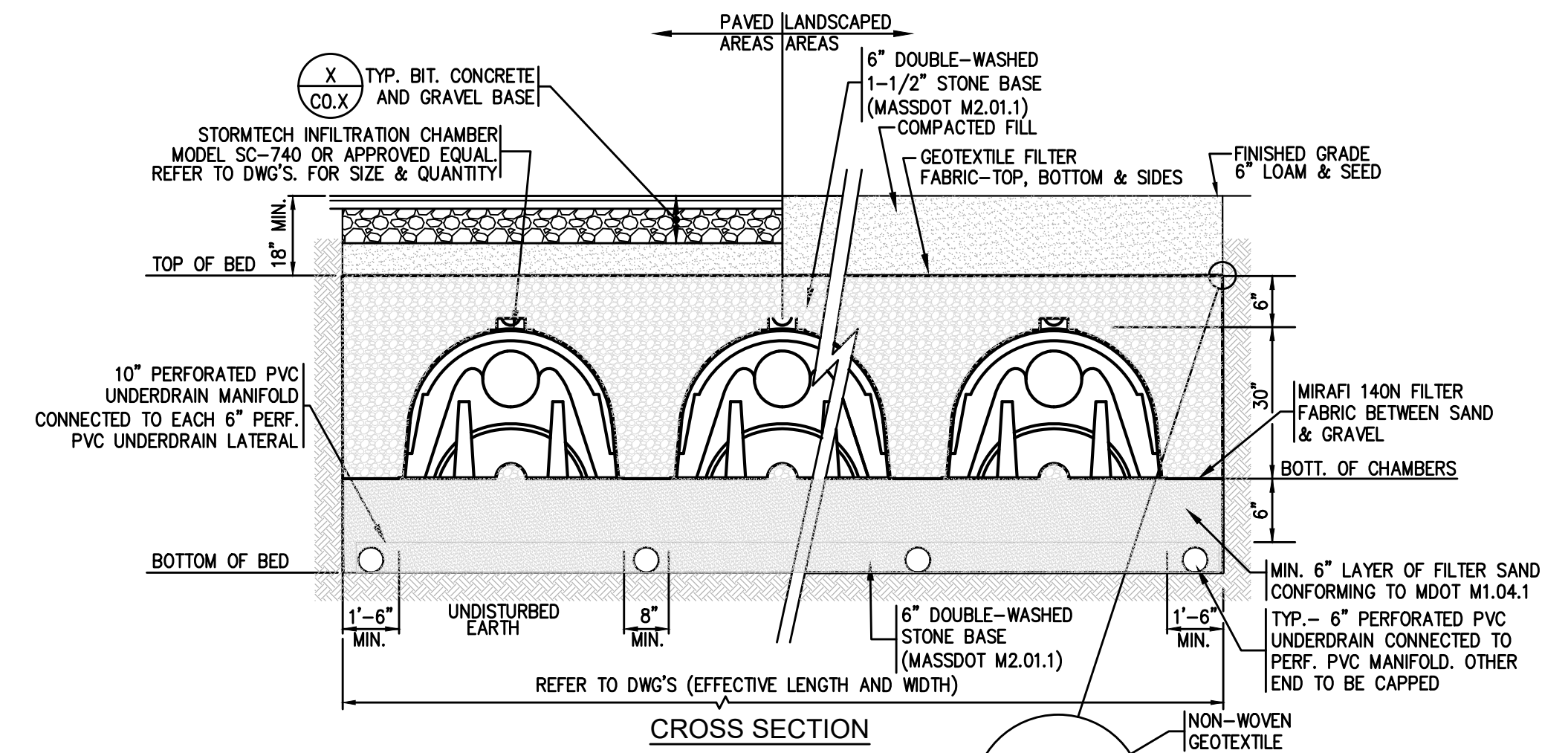
CO.4



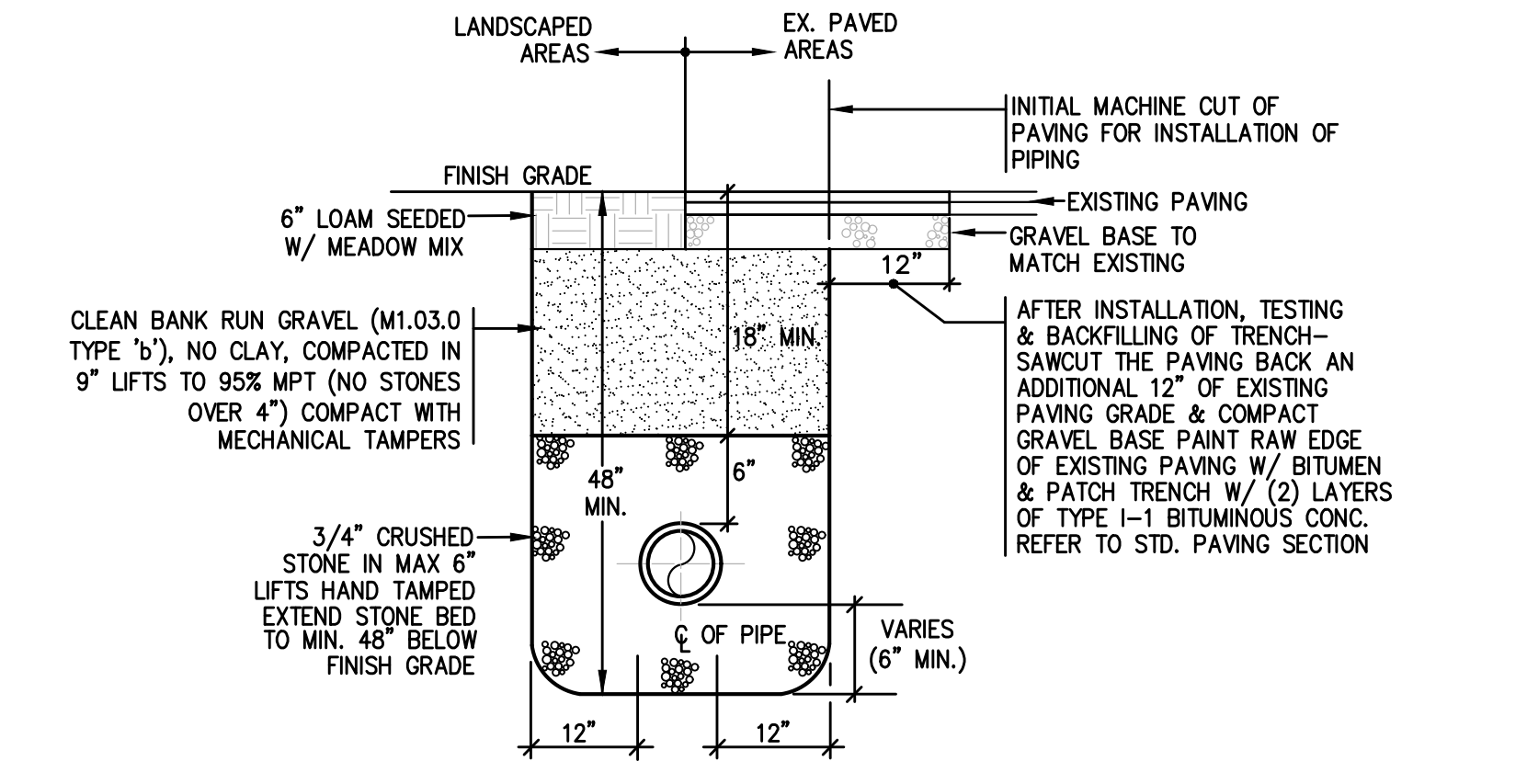
1 TYP. TRENCH SECTION FOR WATER & GAS
CO.4 N.T.S.



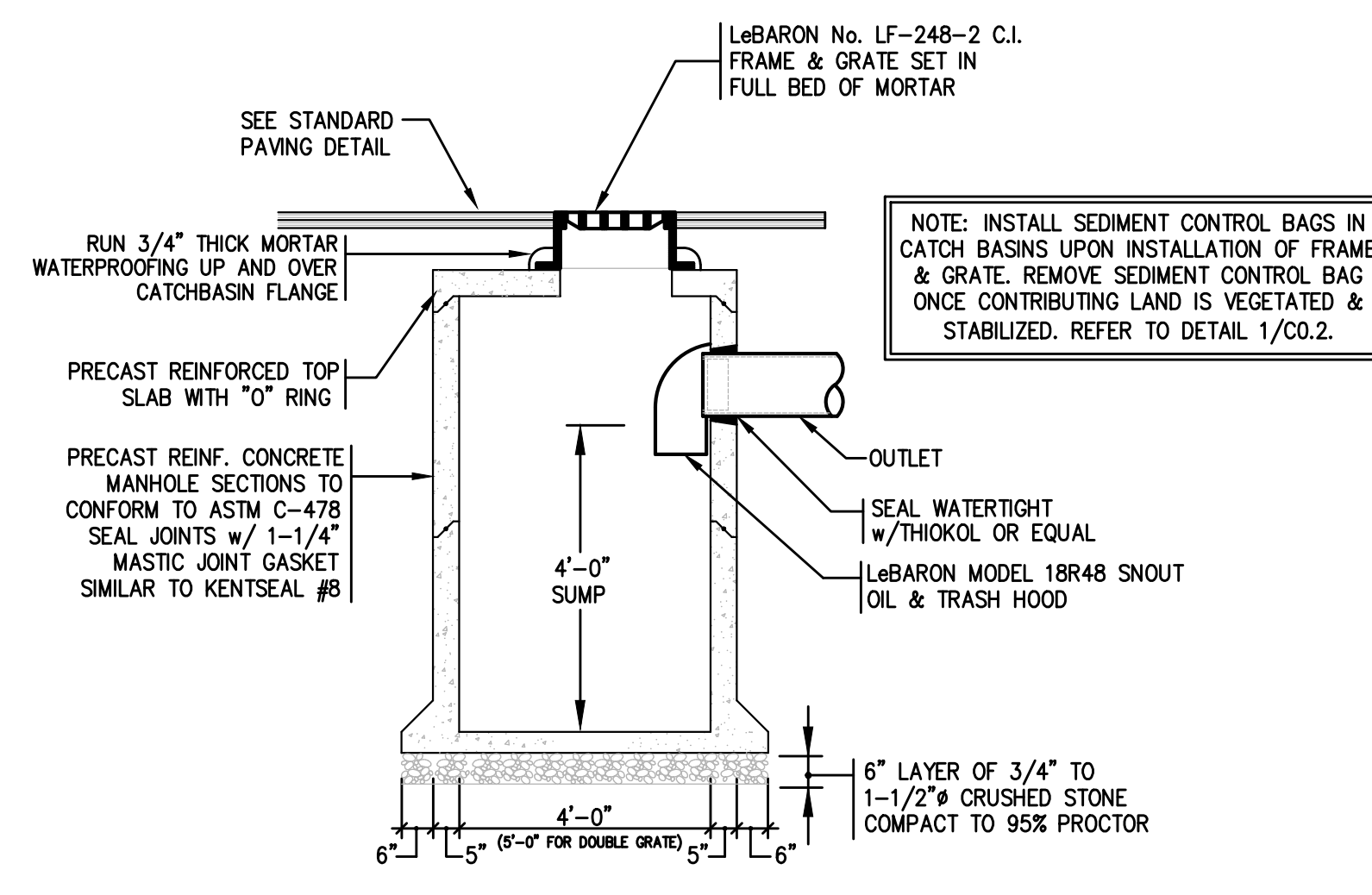
7 STANDARD DRAIN MANHOLE DETAIL
CO.4 N.T.S.



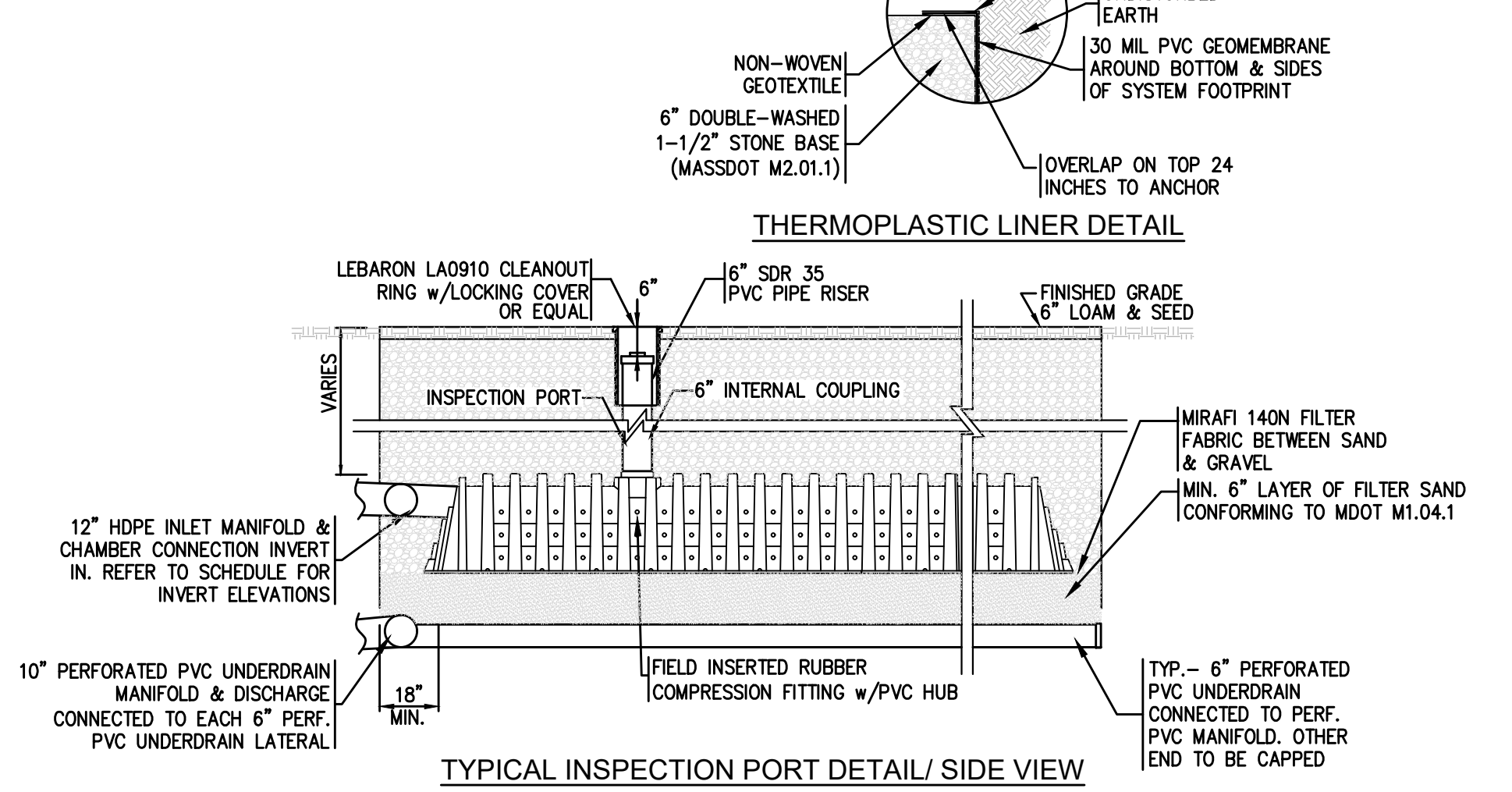
CROSS SECTION



2 TYPICAL TRENCH SECTION FOR DRAINAGE & SEWER
CO.4 N.T.S.



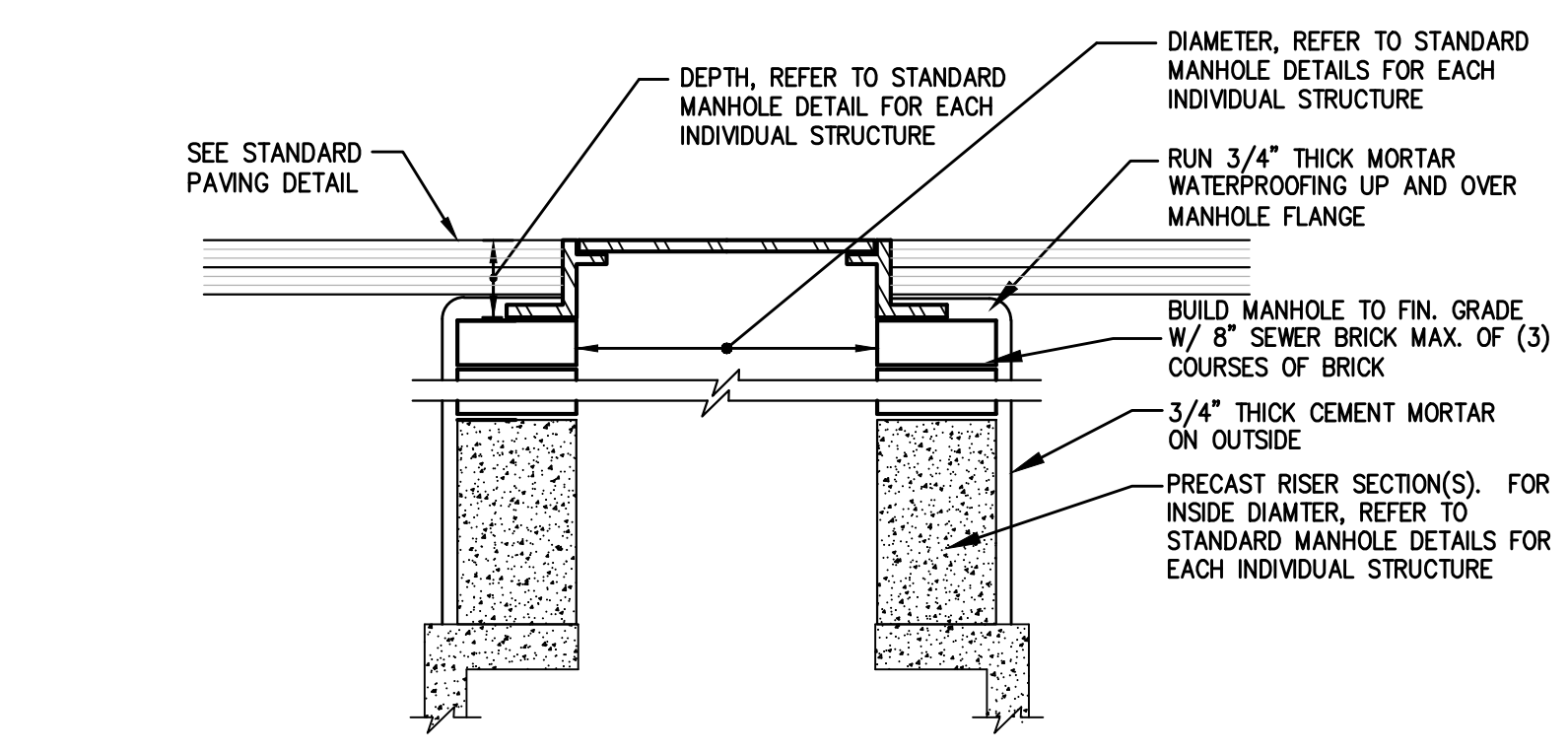
5 CATCH BASIN DETAIL
CO.4 N.T.S.



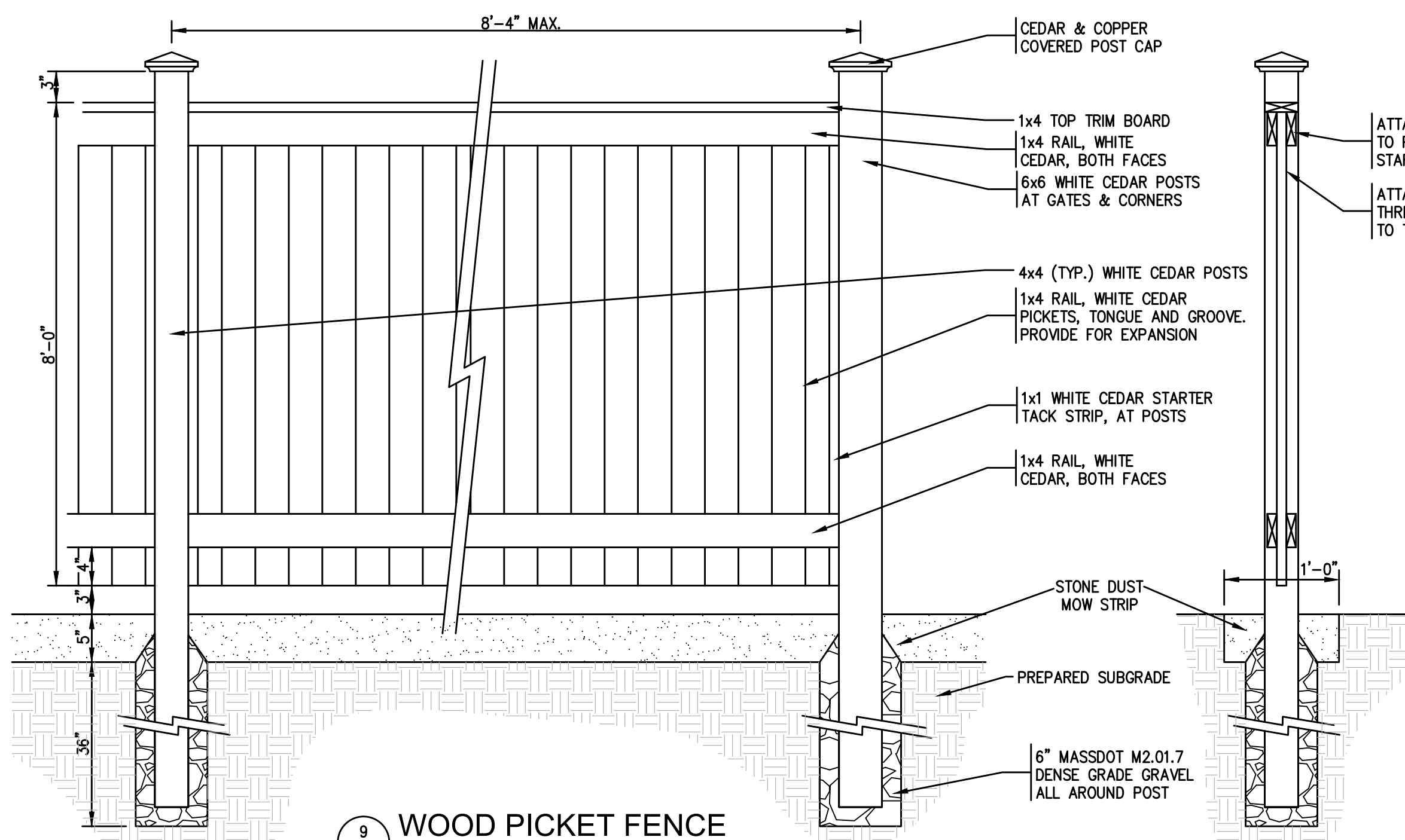
THERMOPLASTIC LINER DETAIL

TYPICAL INSPECTION PORT DETAIL/ SIDE VIEW

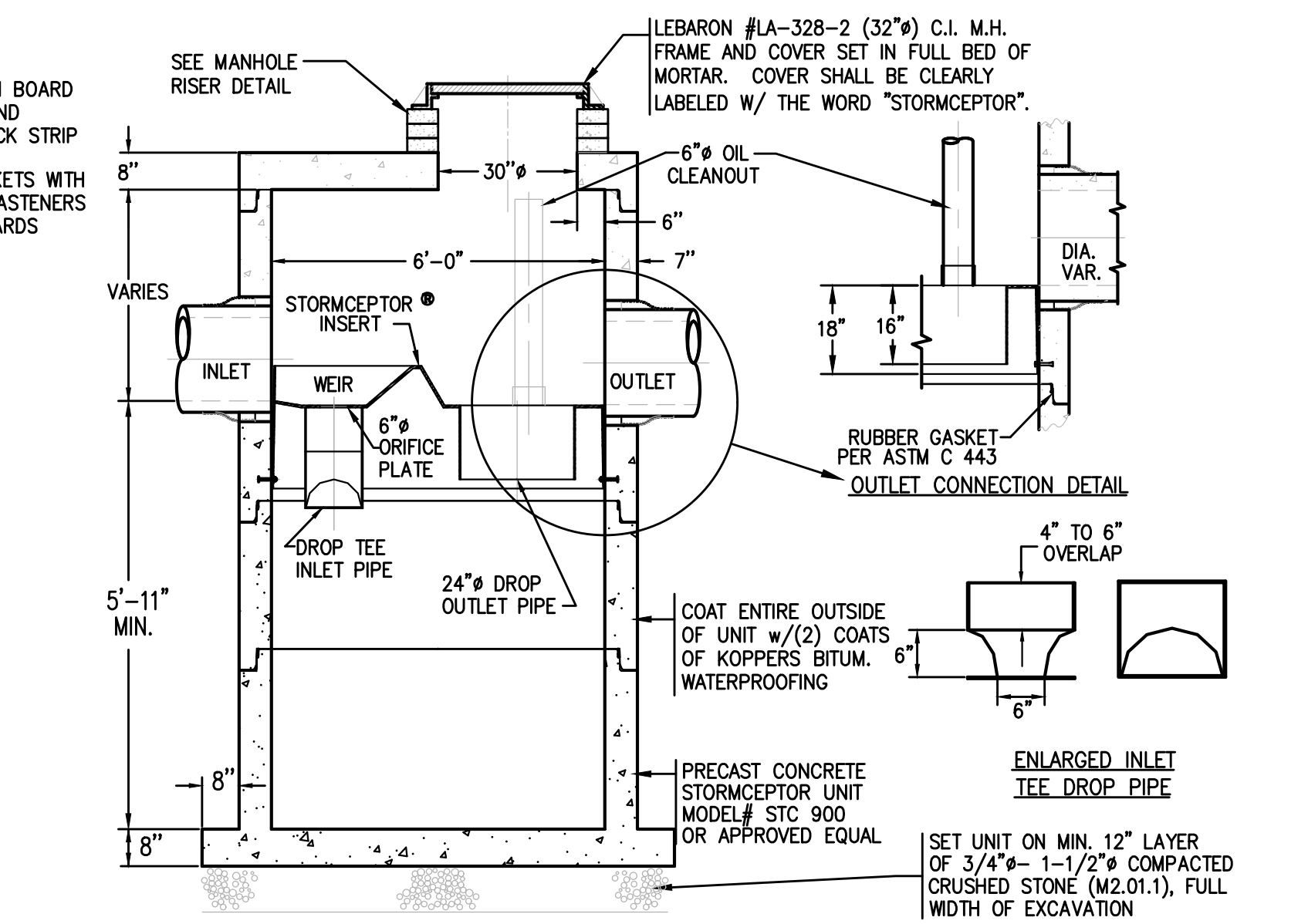
10 SUBSURFACE DETENTION BED (SDB) DETAIL
CO.4 N.T.S.
NOTES:
REFER TO DRAWING C2.1 FOR QUANTITY & LOCATIONS OF INSPECTION PORTS. CONTRACTOR TO FURNISH ALL MATERIAL AND LABOR TO CONNECT 6" PVC INSPECTION RISERS TO CHAMBERS



3 MANHOLE RISER DETAIL
CO.4 N.T.S.



9 WOOD PICKET FENCE
CO.4 N.T.S.

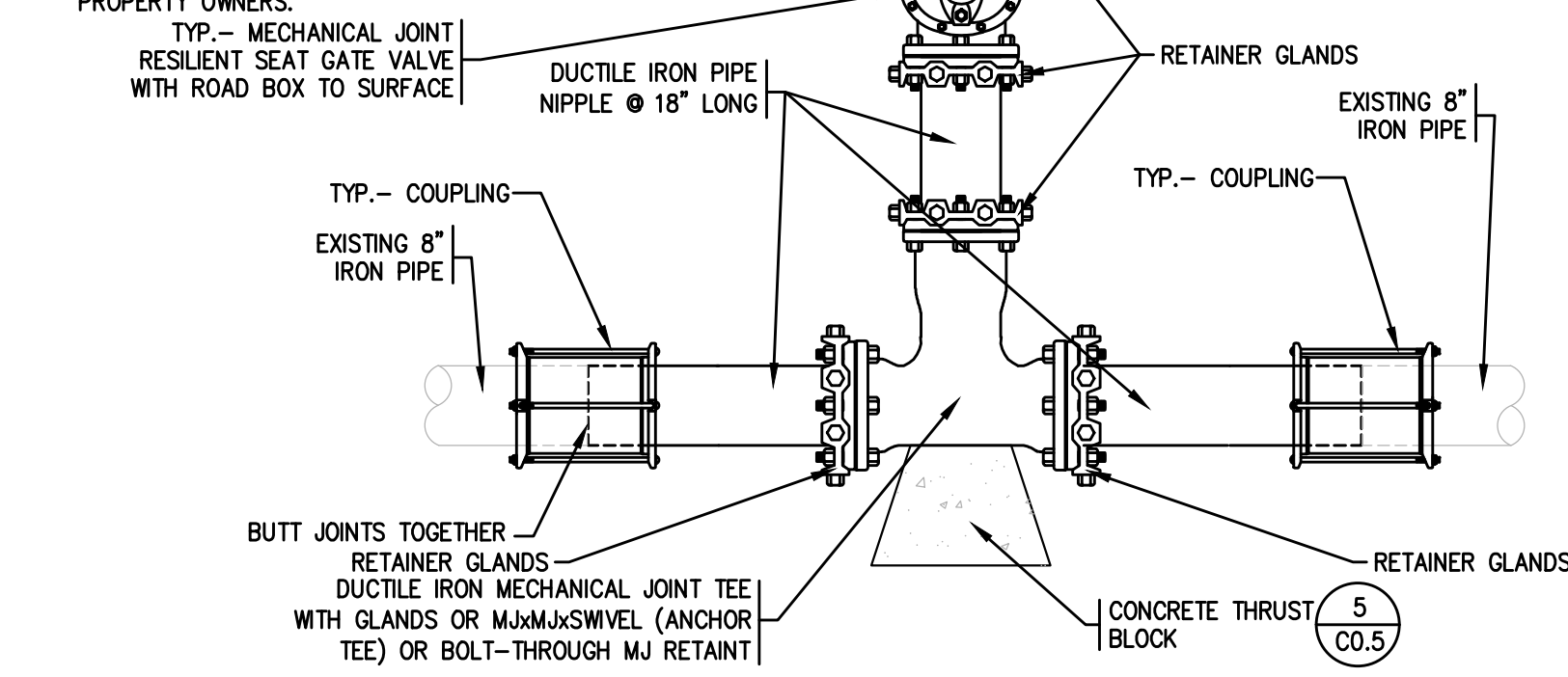


11 WATER QUALITY INLET DETAIL
CO.4 N.T.S.
NOTE:
1. ALTERNATE MANUFACTURERS SHALL INCLUDE CONTECH CDS, HYDROWORKS HYDROGUARD AND HYDRO INTERNATIONAL DOWNSTREAM DEFENDER.

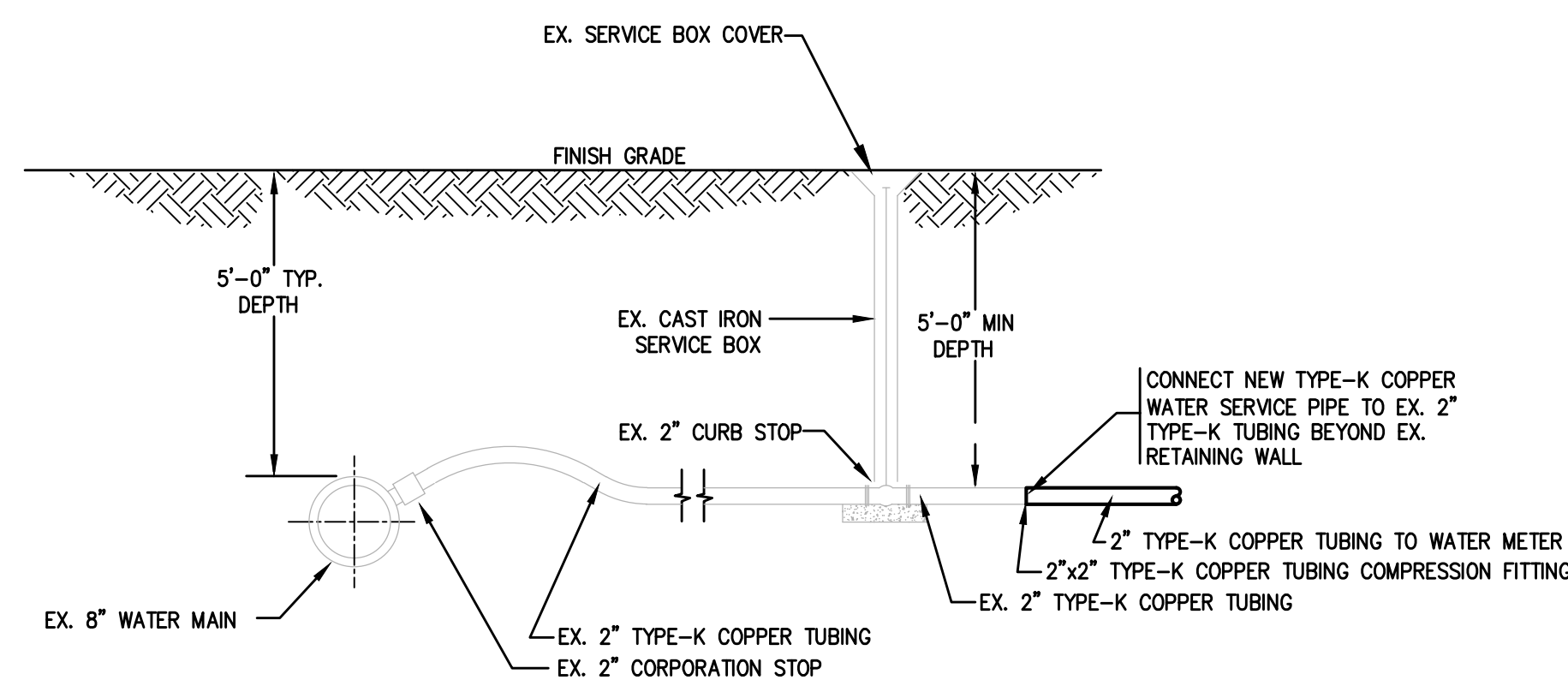
NOTES:

1. ALL MATERIALS WILL CONFORM TO THE AQUARIUM WATER COMPANY SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL CONFORM TO APPLICABLE GUIDELINES AND POLICIES
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5 FEET FROM THE TOP OF PIPE TO FINISH GRADE.
3. REFER TO DETAIL 1/CO.4 FOR TRENCH DETAIL.
4. REFER TO DETAILS 5/CO.5 FOR CONCRETE THRUST BLOCK DETAIL.
5. THE MECHANICAL JOINTS OF THE PIPES BETWEEN THE VALVES AND FITTINGS SHALL BE RESTRAINED VIA RETAINER GLANDS IF MORE THAN ONE SECTION IS USED, RETAINER GLAND RESTRAINS SHALL BE USED AT ALL CONNECTIONS.
6. CONNECTION TO THE EXISTING WATER MAIN SHALL BE ACHIEVED WITH COUPLERS EQUAL TO SMITH BLAIR, STYLE 441; DRESSER, STYLE 153; 360 OR ROMAC STYLE 501 OR AN APPROVED EQUAL. COUPLINGS TO BE PROVIDED WITH PLAN, GRADE 27, RUBBER GASKET AND WITH BLACK STEEL, TRACK-HEAD BOLTS WITH NUTS.
7. CONTRACTOR SHALL COORDINATE THE SHUTDOWN OF THE EXISTING WATER MAIN WITH THE AQUARIUM WATER COMPANY AND ALL IMPACTED PROPERTY OWNERS.

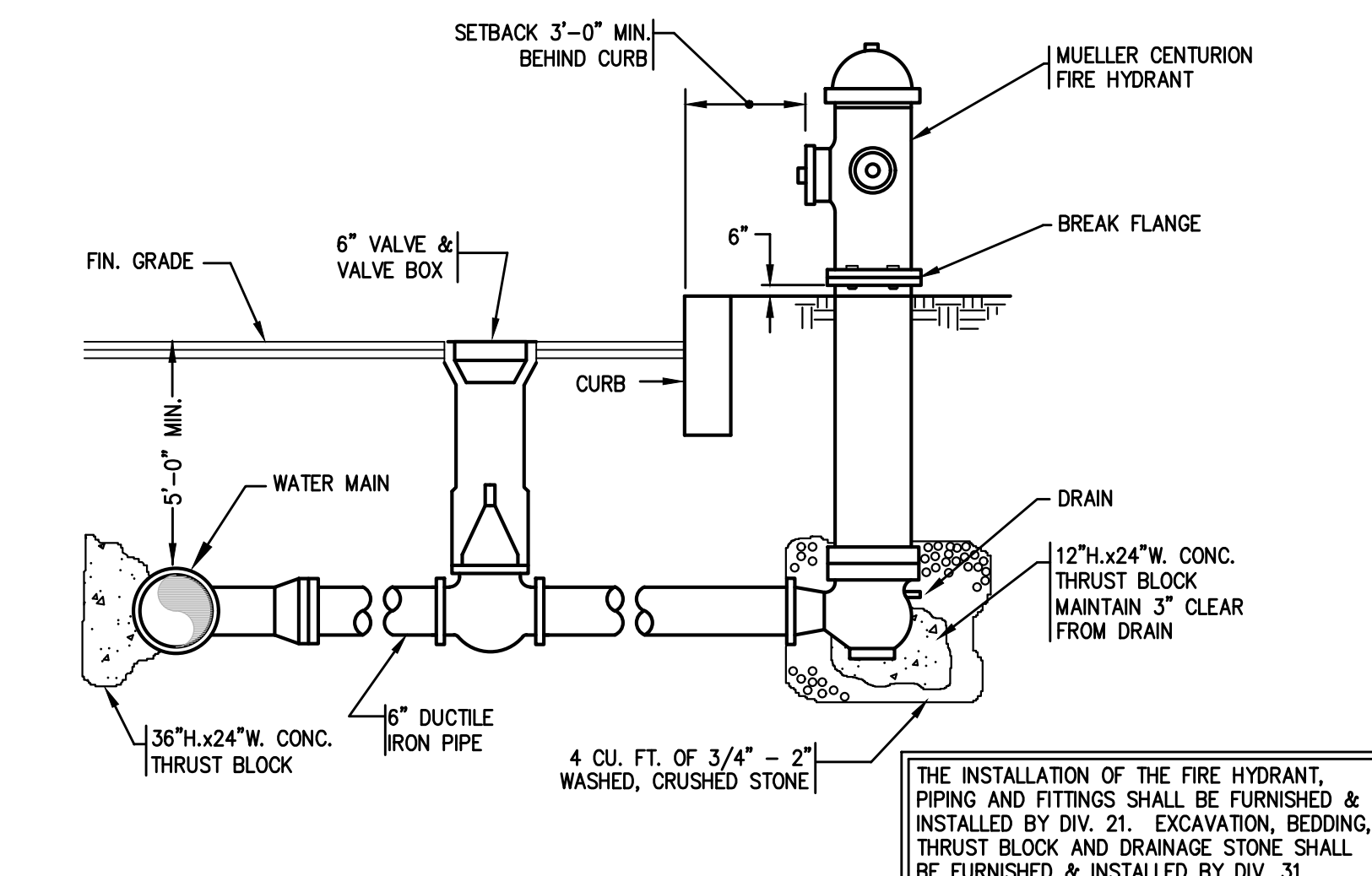
NOTE:
THE FIRE PROTECTION CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPE FITTINGS, GATE VALVES, ROAD BOXES AND PIPING REQUIRED TO COMPLETE THE WORK UNDER SECTION 210000. THE SITE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND EARTH MATERIALS TO EXCAVATE, BED, BACKFILL AND THRUST BLOCKS FOR THE WORK OF DIV. 21 UNDER SECTION 312000.



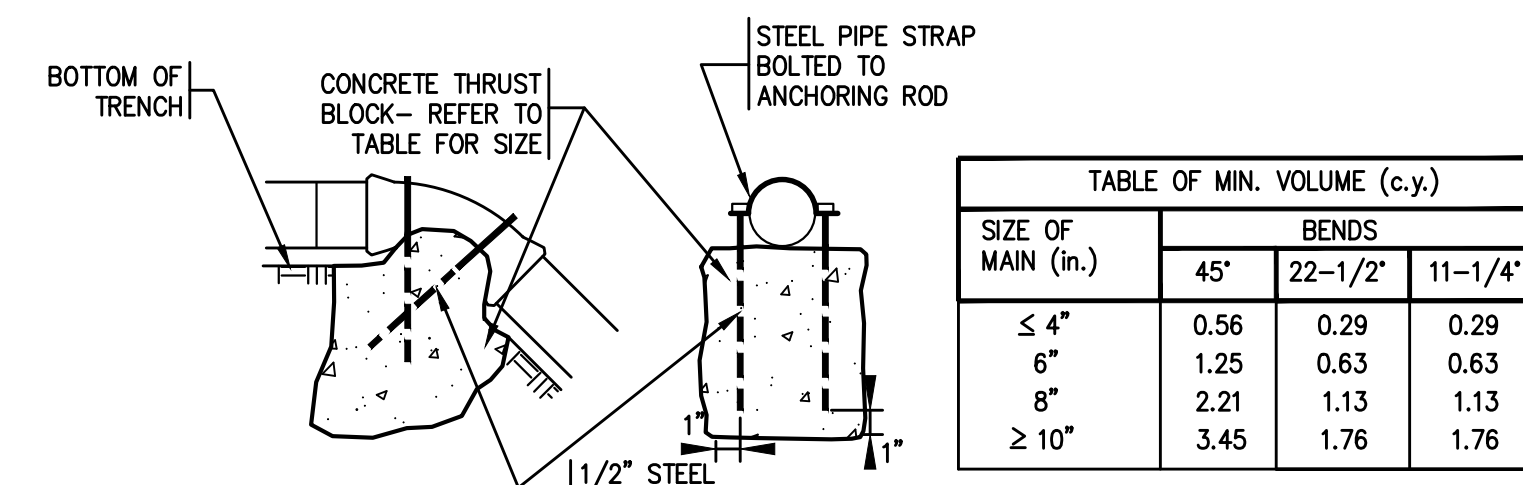
1 WATER SERVICE CONNECTION SCHEMATIC DETAIL
CO.5 N.T.S.



2 WATER SERVICE DETAIL
CO.5 N.T.S.



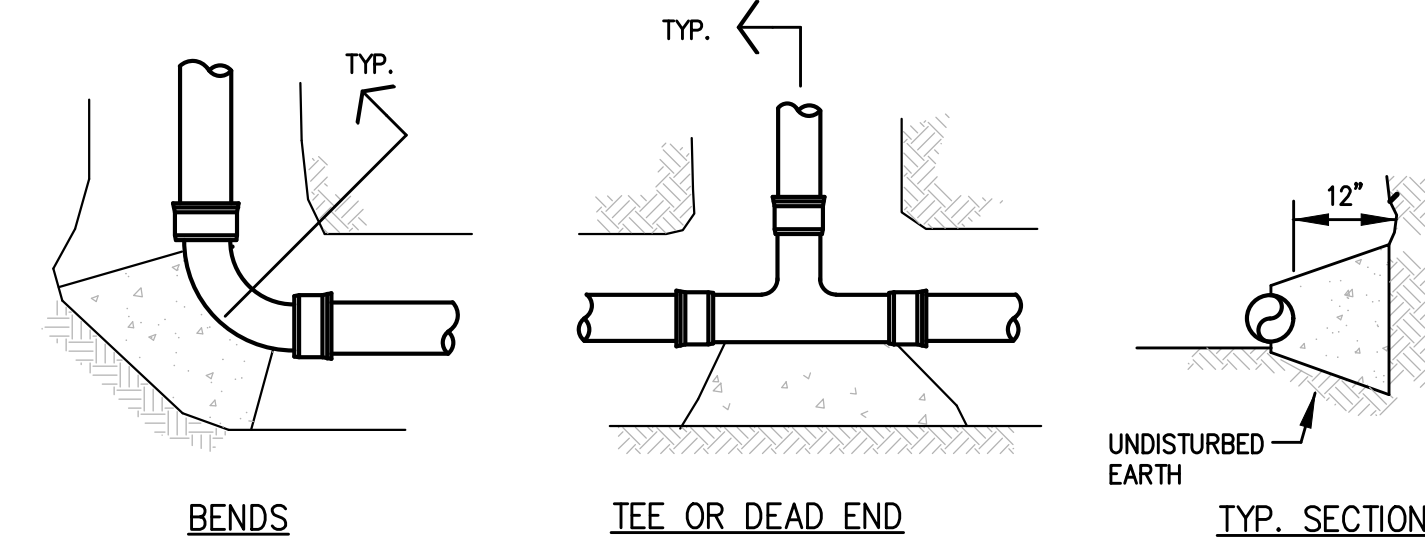
3 FIRE HYDRANT DETAIL
CO.5 N.T.S.



SIZE OF MAIN (in.)	BENDS		
	45°	22-1/2°	11-1/4°
≤ 4"	0.56	0.29	0.29
6"	1.25	0.63	0.63
8"	2.21	1.13	1.13
≥ 10"	3.45	1.76	1.76

4 VERTICAL CONCRETE THRUST BLOCK DETAIL
CO.5 N.T.S.

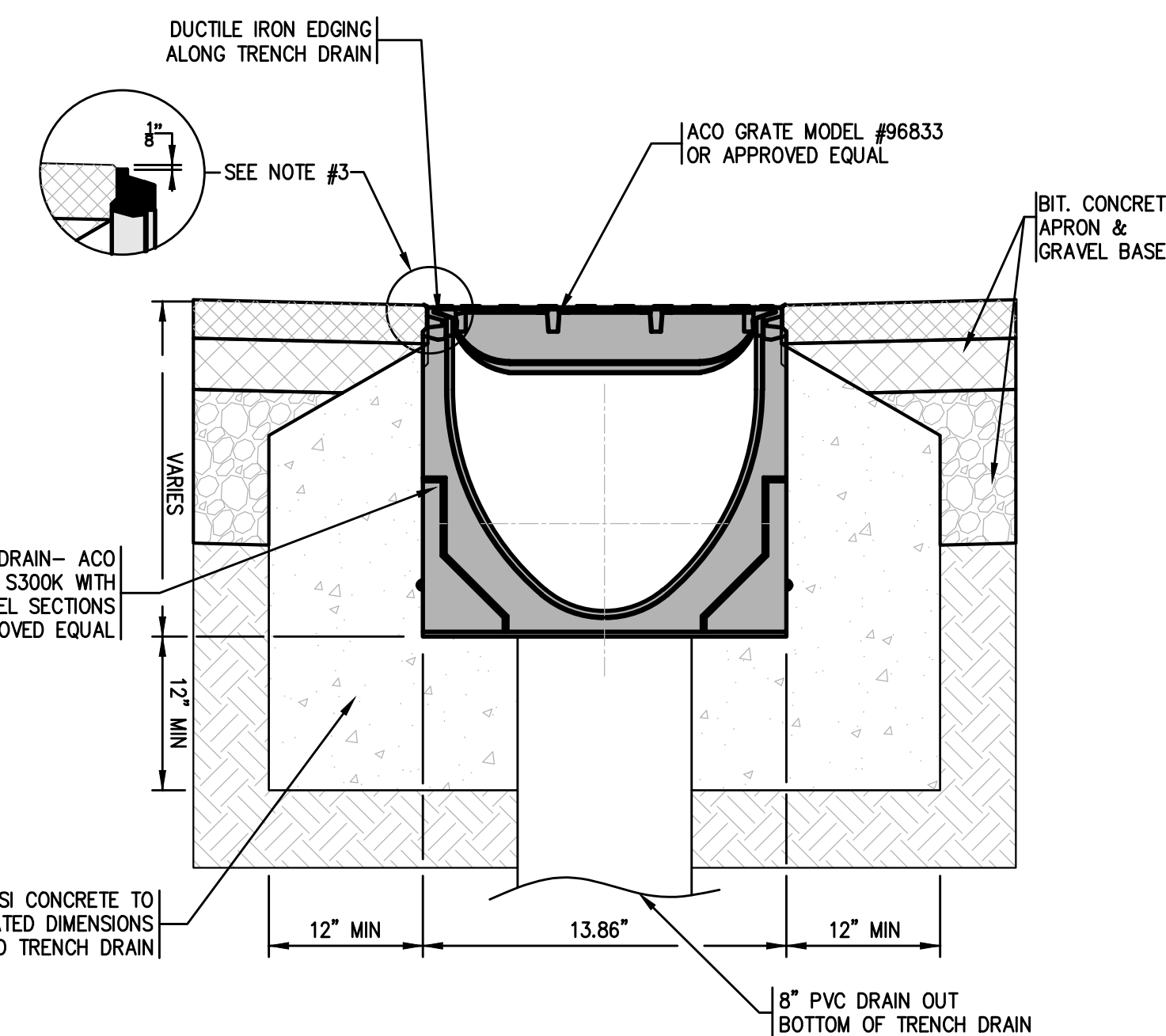
- CONCRETE SHALL BE 4,000 PSI TYPE BEARING ON UNDISTURBED EARTH
- CONCRETE SHALL NOT RUN INTO PIPE JOINTS
- 6 MIL. PLASTIC TO BE PLACED BETWEEN THRUST BLOCK AND FITTINGS.
- THRUST BLOCK SHALL BE POURED AGAINST UNDISTURBED EARTH.



5 CONCRETE THRUST BLOCK DETAIL
CO.5 N.T.S.

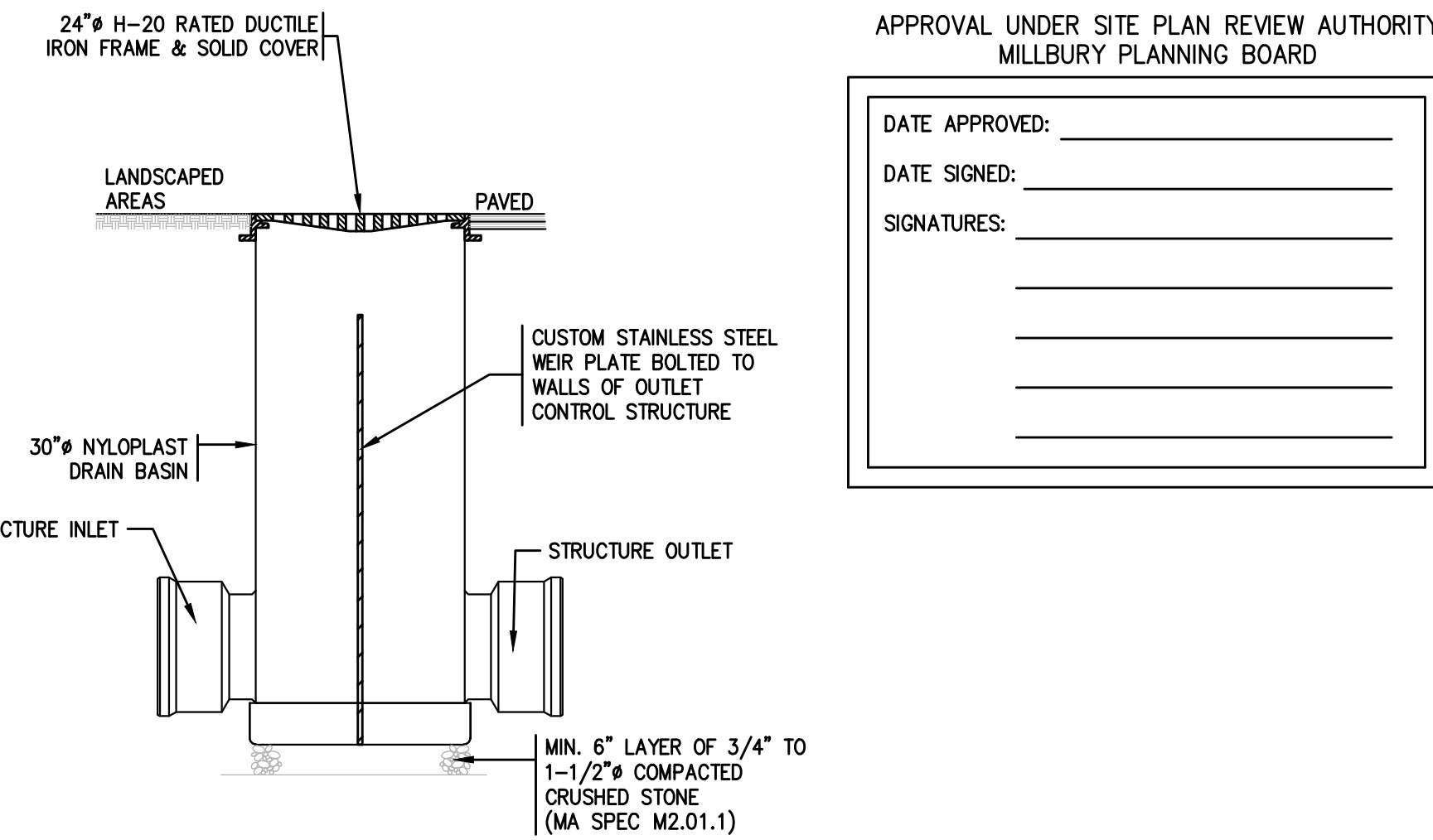
- CONCRETE SHALL BE 2500# TYPE BEARING ON UNDISTURBED EARTH
- CONCRETE SHALL NOT RUN INTO PIPE JOINTS
- ALL BLOCKS SHALL BE MIN. 1'-0" HIGH

SIZE OF MAIN (in.)	TEES & PLUGS	VALVES	BENDS			
			90°	45°	22-1/2°	11-1/4°
≤ 4"	2	1	2	1	1	1
6"	3	2	3	2	2	2
8"	4	3	5	3	2	2
≥ 10"	9	4	10	6	4	3



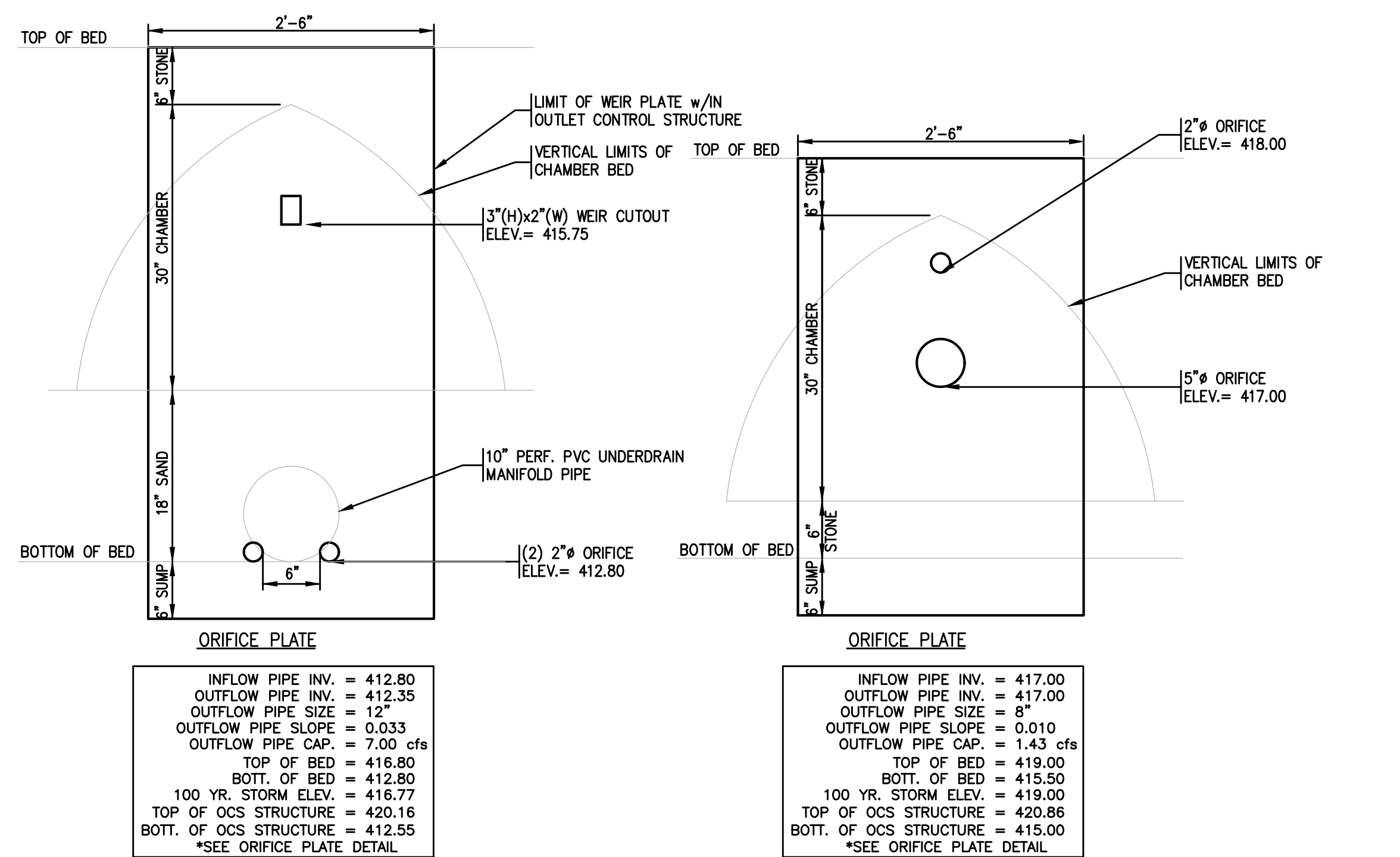
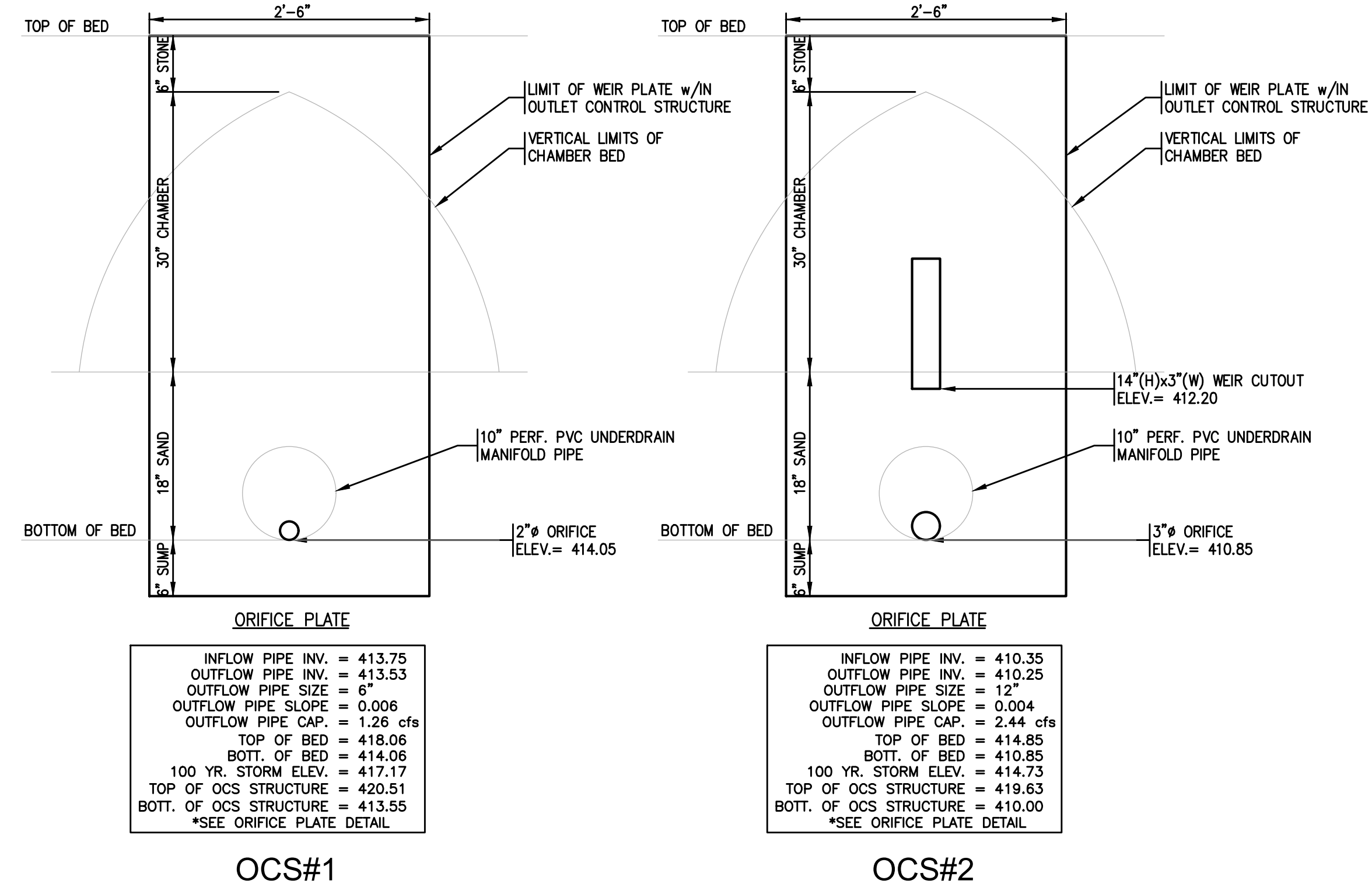
6 TRENCH DRAIN DETAIL
CO.5 N.T.S.

- NOTES:**
1. MINIMUM CONCRETE STRENGTH OF 4,000 PSI. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
 2. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND.
 3. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
 4. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS.
 5. REFER TO MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.
 6. TRENCH DRAIN & GRATE SHALL MEET FABRICATED ACCESS COVERS TRADE ASSOCIATION (FACTA) LOAD CLASS E.

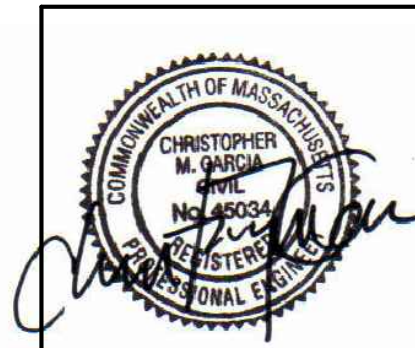


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MILLBURY PLANNING BOARD

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8 OUTLET CONTROL STRUCTURE DETAIL
CO.5 N.T.S.



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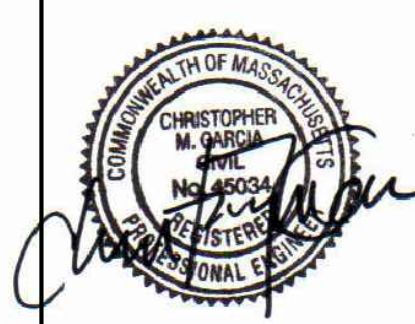
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CO.5

APPROVAL UNDER SITE PLAN REVIEW AUTHORITY
MILLBURY PLANNING BOARD

DATE APPROVED: _____
DATE SIGNED: _____
SIGNATURES: _____



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CONSULTING ENGINEERS
200 State Street, Suite 2000, Boston, MA 02109
TEL: 617.423.1400 FAX: 617.423.1401

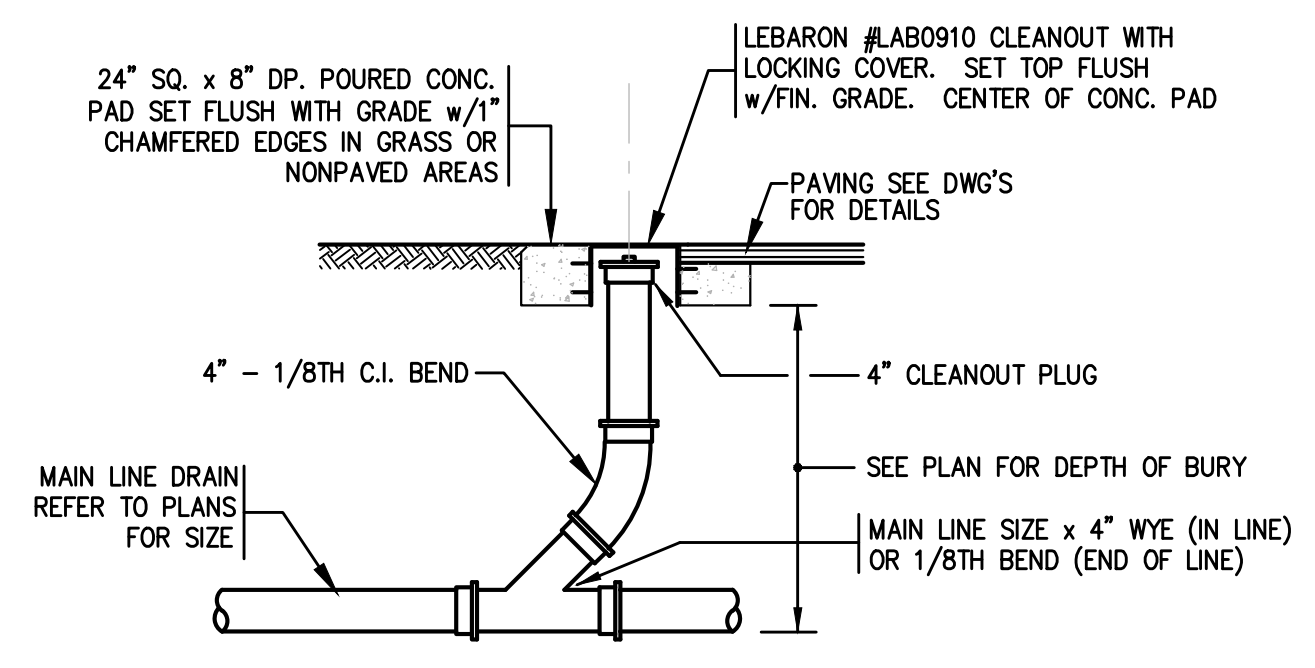
SITE PLAN REVIEW UPDATES:
MARCH 1, 2021
NOT FOR CONSTRUCTION

Millbury Fire Station
130 Elm Street, Millbury, MA
project number: 1902
Site Details

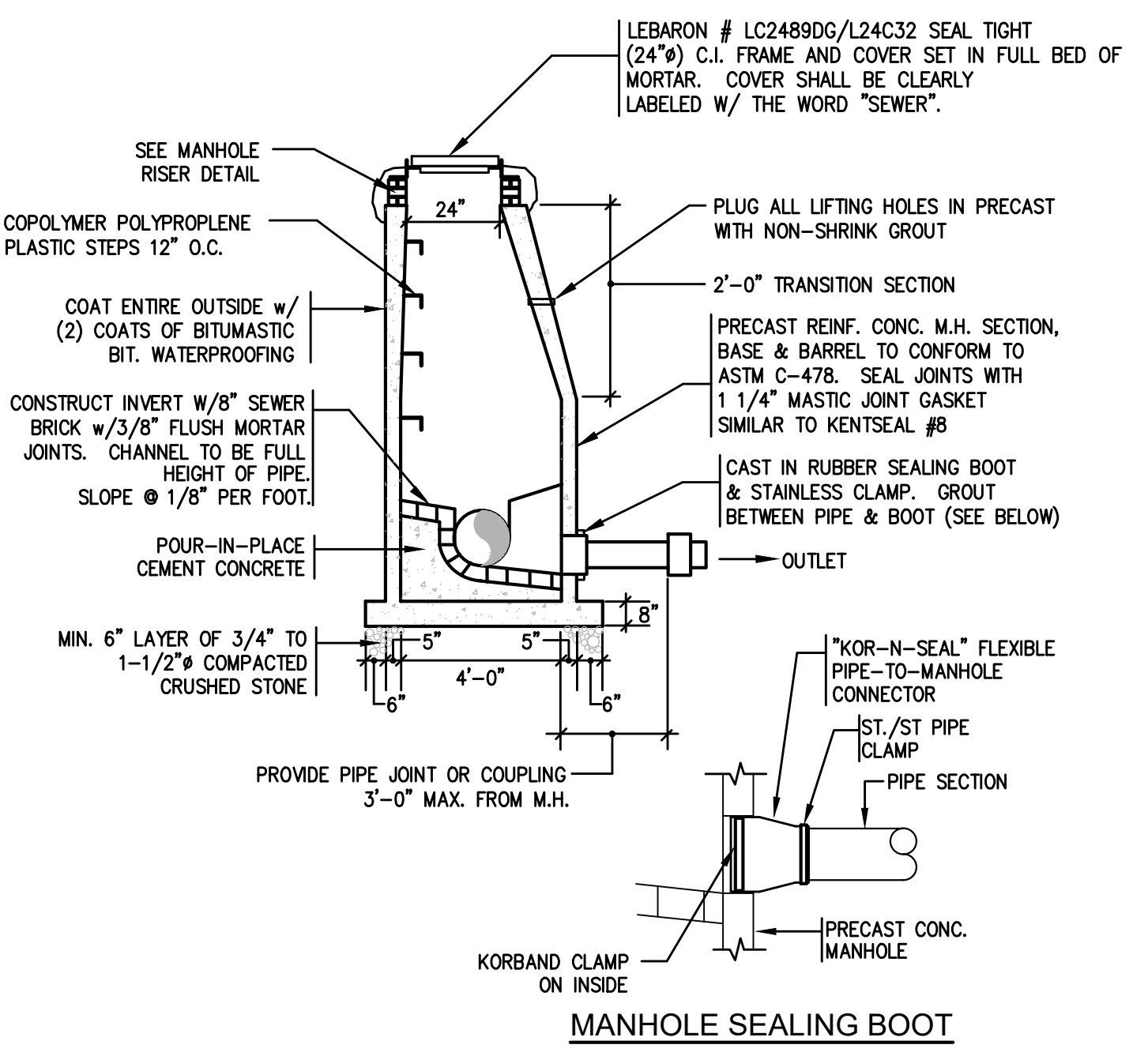
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Drawn by: NCK

No. Issue Date
1 PLANNING BOARD 1/25/21
2 PB REVISIONS 3/1/21

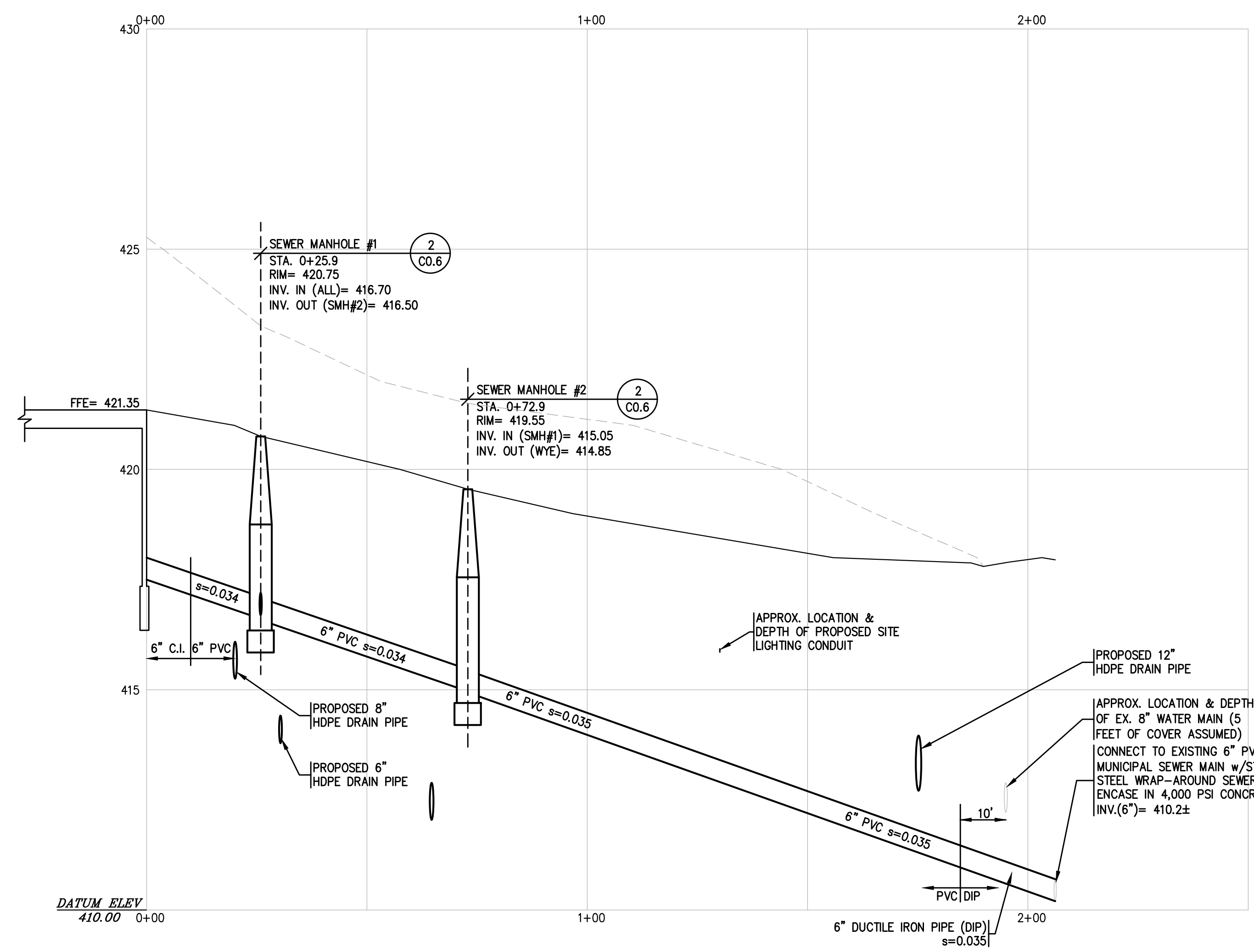
CO.6



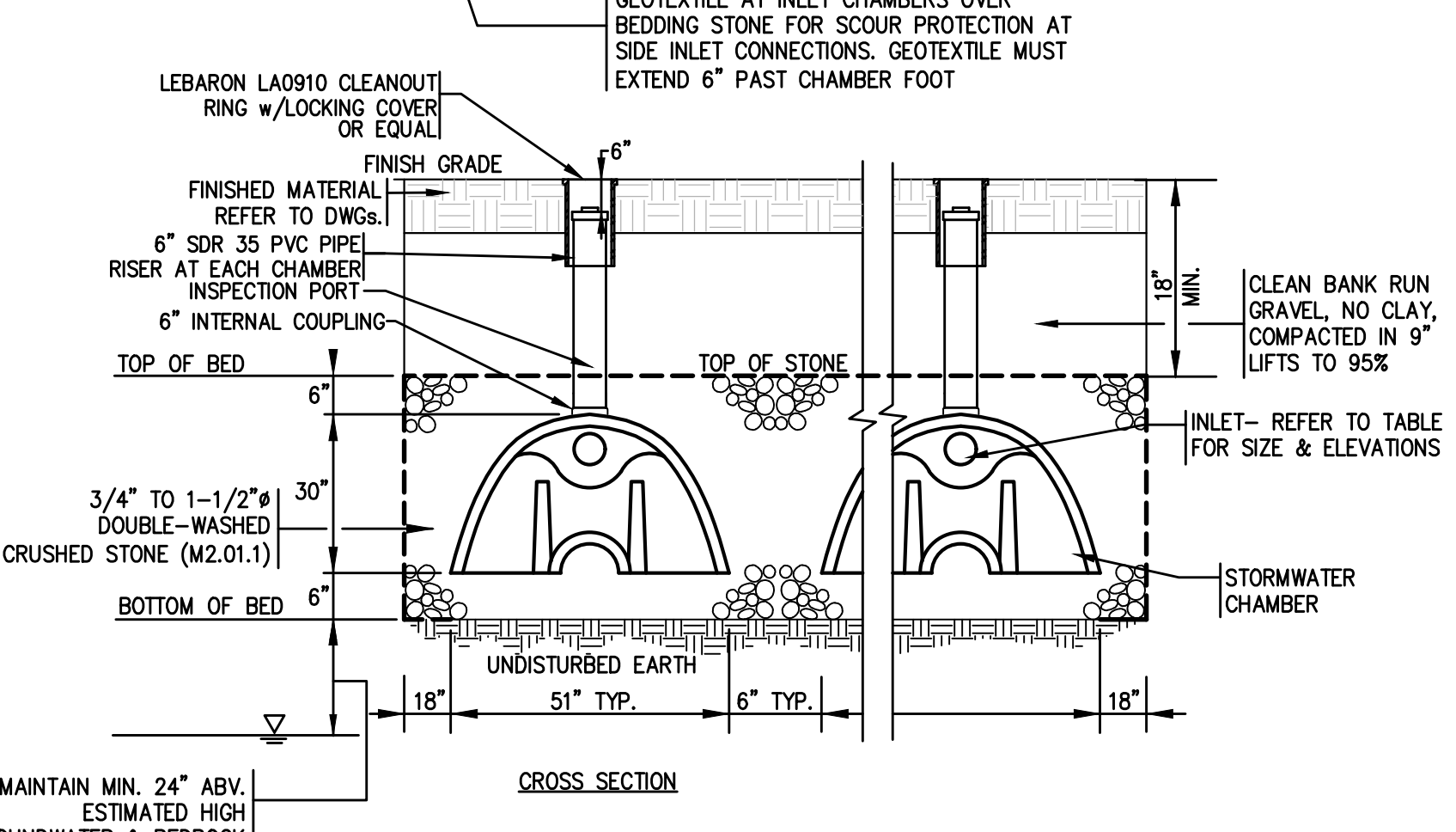
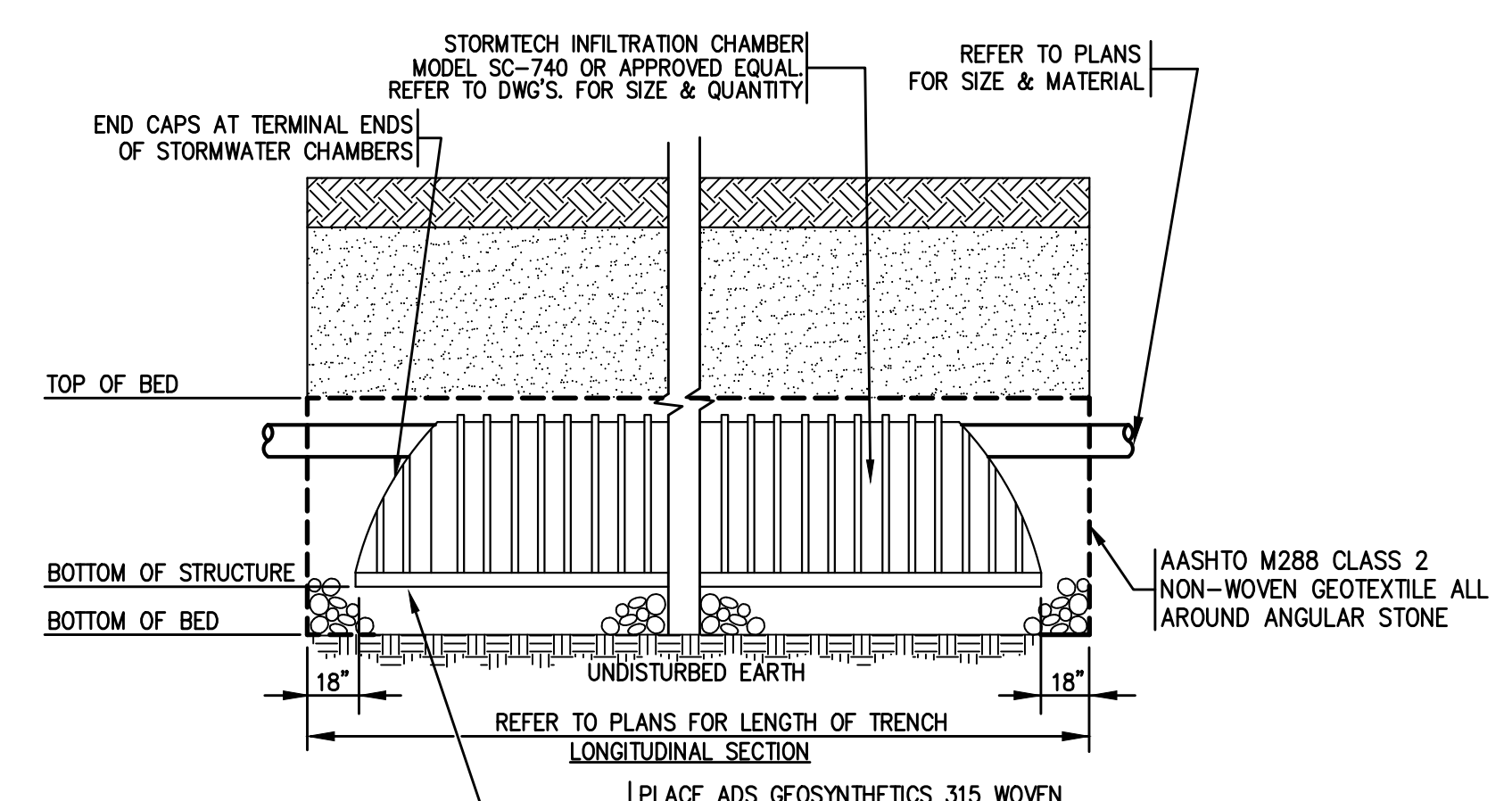
1 GROUND CLEANOUT DETAIL
CO.6 N.T.S.



2 STANDARD SEWER MANHOLE DETAIL
CO.6 N.T.S.

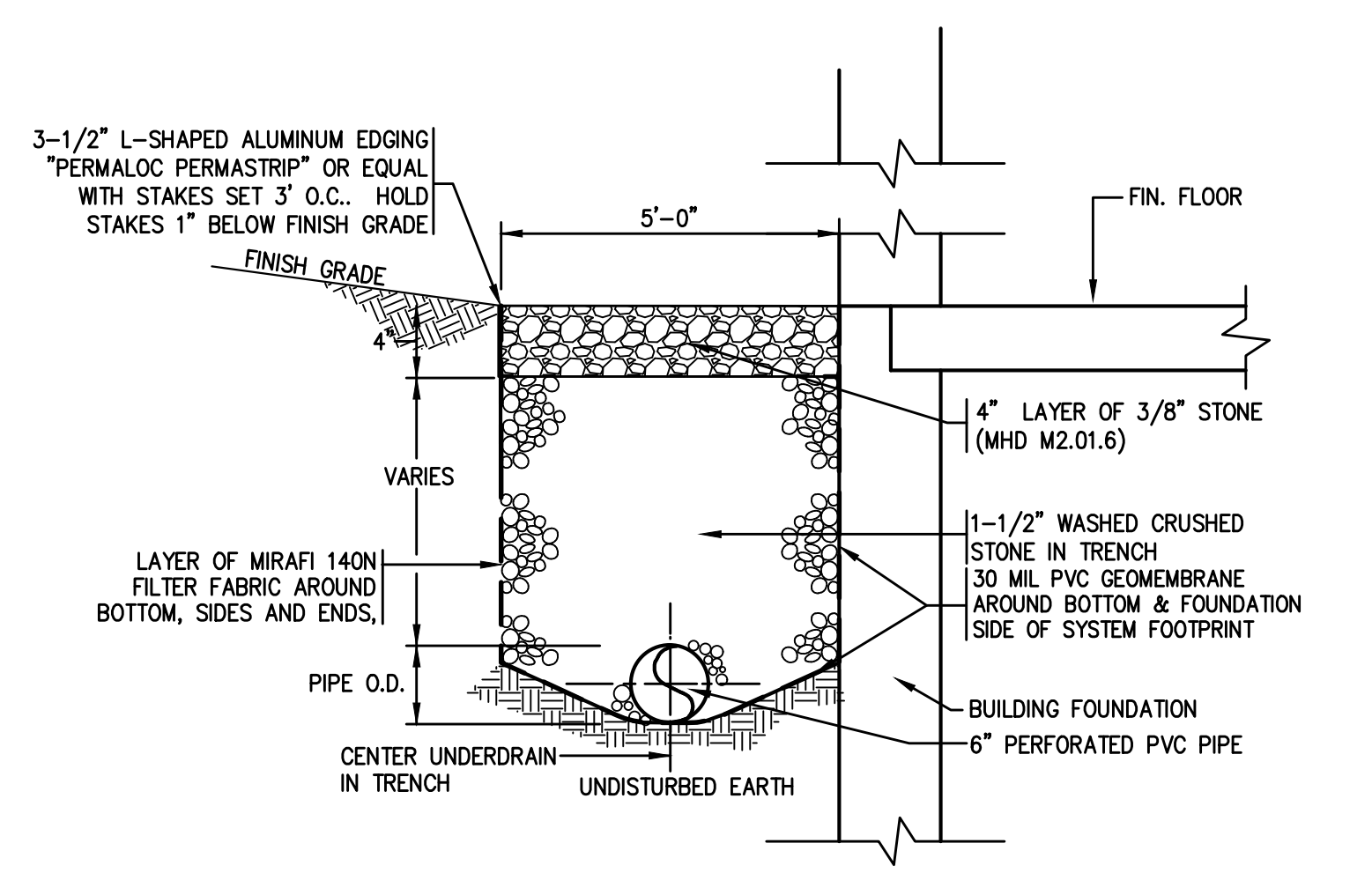


4 PROFILE OF SUBSURFACE SEWER SYSTEM
CO.6 HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

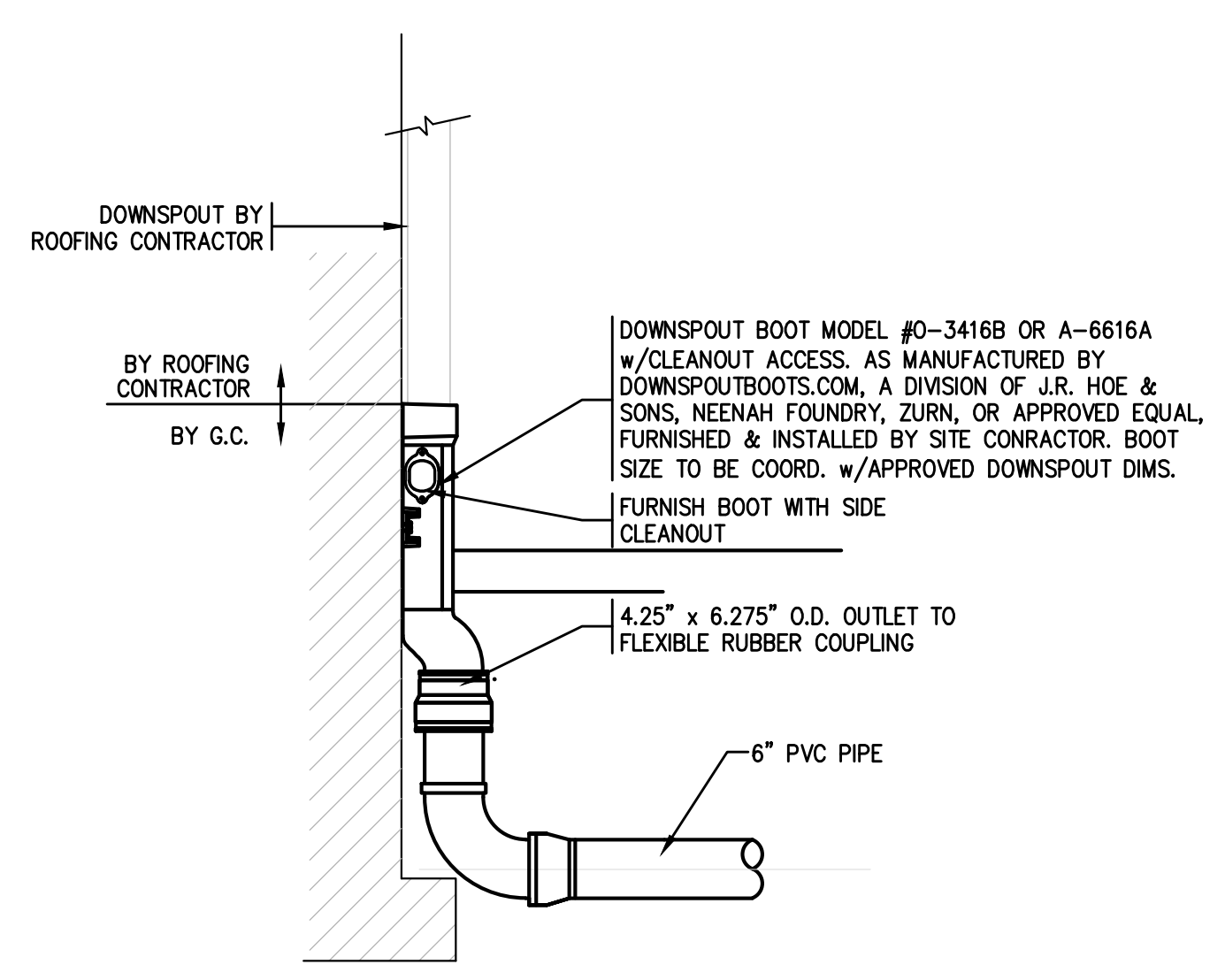


6 SUBSURFACE INFILTRATION BED SYSTEM DETAIL
CO.6 N.T.S.

- REFER TO PLAN 1/C2.1 FOR LOCATIONS OF INSPECTION PORTS. CONTRACTOR TO FURNISH ALL MATERIAL AND LABOR TO CONNECT 6" PVC INSPECTION RISERS TO CHAMBERS
- REFER TO PLAN 1/C2.1 FOR CHAMBER CONFIGURATIONS AND VOLUME REQUIREMENTS.



3 INTERCEPTOR TRENCH DETAIL
CO.6 N.T.S.



5 DOWNSPOUT CONNECTION AT GRADE DETAIL
CO.6 N.T.S.
NOTE:
REFER TO DRAIN PIPE TRENCH SECTION DETAIL FOR PIPE BEDDING REQUIREMENTS

SITE DEMOLITION NOTES:

- PROTECT EXISTING UTILITIES AS SHOWN ON PLAN DURING NEW BUILDING CONSTRUCTION.
- REMOVED BITUMINOUS CONCRETE MAY BE PULVERIZED ON SITE & REUSED WHEN MIXED WITH OTHER MATERIAL, PROVIDED SAID MATERIAL MEETS THE GRADATION REQUIREMENTS OF THE CONTRACT DOCUMENTS & THE SOIL LABORATORY, OR LEGALLY DISPOSED OF AT AN OFF-SITE LOCATION. BROKEN UP BITUMINOUS CONCRETE SHALL NOT BE DISPOSED OF ON-SITE.
- IN AREAS WHERE THE FINISH MATERIAL WILL BE PAVING (ROADWAYS, PARKING AREAS OR CONCRETE WALKWAYS), REMOVE EXISTING MATERIAL TO INDICATED SUB-GRADE LEVEL, PROOF ROLL, TEST AND PROCEED WITH PLACEMENT OF NEW GRAVEL COURSE TO THE SPECIFIED THICKNESSES.
- IN AREAS TO BE LANDSCAPED, CUT OR FILL OVER THE BASE COURSE TO BRING GRADE UP TO SUB-GRADE LEVEL.
- ALL EXISTING BASE COURSE MATERIAL MAY BE USED FOR FILL IN AREAS SPECIFIED AS ORDINARY BORROW/FILL.
- THE INDICATED LIMITS OF CONSTRUCTION FENCE ARE BASELINE. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING & INSTALLING TEMPORARY FENCING FOR AREAS OF WORK LOCATED OUTSIDE OF THE LIMITS OF THE SITE SUCH AS FOR SEWER CONNECTION, GRADING OF ADJACENT LANDS, CURB INSTALLATION, ETC.
- MAINTAIN PUBLIC ACCESS TO EXISTING FIRE HYDRANTS, UTILITY POLES, CONTROL PANELS, ETC. FOR THE DURATION OF THE PROJECT.
- DO NOT BLOCK ACCESS TO ADJACENT PROPERTIES, DRIVEWAYS, PARKING LOTS, ETC. AT ANY TIME. DELIVERY VEHICLES SHALL FIND ALTERNATE ACCEPTABLE LOCATIONS TO STAGE DURING CONSTRUCTION.

SUBSURFACE DETENTION AREA NOTES:

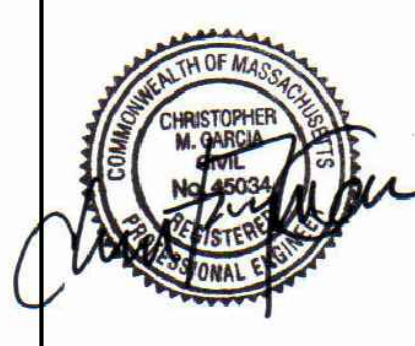
- DURING CONSTRUCTION, NO HEAVY EQUIPMENT SHALL BE OPERATED OVER THE BOTTOM OF THE SUBSURFACE DETENTION BEDS.
- UPON INSTALLATION, THE CONTRACTOR SHALL PLACE SUFFICIENT COVER OVER THE INFILTRATION BEDS TO PROTECT THE CHAMBER SYSTEM FROM CONSTRUCTION VEHICLE LOADING. REFER TO MANUFACTURER'S INSTALLATION DOCUMENTS.

DEMO LEGEND

x	REMOVE & DISPOSE
R&D	REMOVE & DISPOSE
--- --- --- ---	ABANDON EXIST'G. UTILITY IN PLACE
x-x-x-x-x	REMOVE & DISPOSE OF EXIST'G. UTILITY

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MILLBURY PLANNING BOARD

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 CONSULTING ENGINEERS, INC.
 100 STATE STREET, SUITE 200, BOSTON, MA 02109
 TEL: 617.552.1100 FAX: 617.552.1101

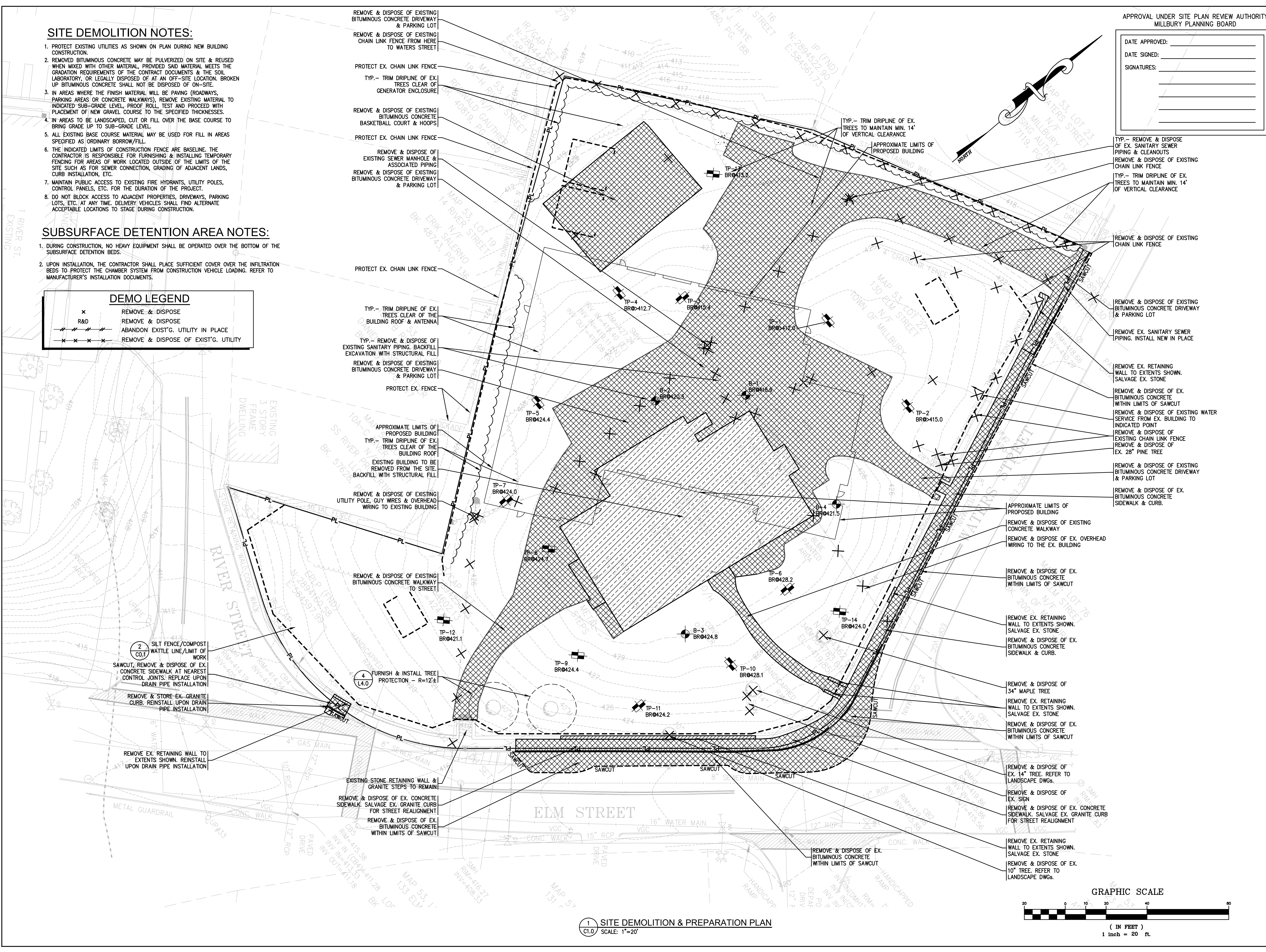
SITE PLAN REVIEW UPDATES:
 MARCH 1, 2021
 NOT FOR CONSTRUCTION

Millbury Fire Station
 130 Elm Street, Millbury, MA
 project number: 1902
Site Demolition & Preparation Plan

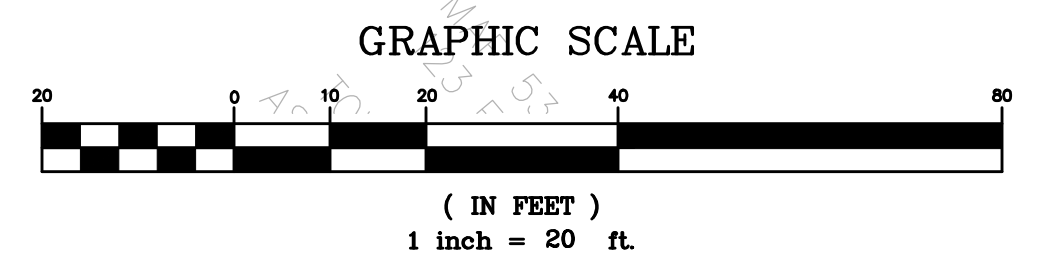
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 Drawn by: NCK

No.	Issue	Date
1	PLANNING BOARD	1/25/21
2	PB REVISIONS	3/1/21

C1.0



1 SITE DEMOLITION & PREPARATION PLAN
 C1.0 SCALE: 1"=20'



CATCH BASINS/DRAIN INLETS					
STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. OUT ELEV.	DETAIL
CB #1	419.75			416.75 (WOS#1)	5/CO.4
CB #2	419.20			414.10 (WOS#2)	5/CO.4
CB #3	417.30			414.30 (WOS#2)	5/CO.4
XCB #1	414.54	411.55 (DMH#4)			N/A

WATER QUALITY STRUCTURES					
STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. OUT ELEV.	DETAIL
WOS#1	419.95	416.65 (CO#1)	416.40 (CO#1)	416.40	11/CO.4
WOS#2	419.50	413.75 (ALL)	413.50 (SDB#2)	413.50	11/CO.4
WOS#3	418.44	415.40 (TD#1)	415.15 (SDB#3)	415.15	11/CO.4

DRAIN MANHOLE SCHEDULE						
STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. OUT ELEV.	DETAIL
DMH #1	421.00	413.58 (OCS#1)	413.75 (OCS#4)		413.40 (DMH#2)	7/CO.4
DMH #2	421.00	413.07 (ALL)			412.97 (DMH#3)	7/CO.4
DMH #3	421.30	412.60 (DMH#2)			412.60 (DMH#4)	7/CO.4
DMH #4	420.28	412.25 (DMH#3)			412.23 (XCB#1)	7/CO.4

SUBSURFACE DETENTION BED ELEVATIONS									
STRUCTURE #	MIN. FIN. GRADE	INV. IN ELEV.	INV. IN ELEV.	BOTTOM OF BED	BOTTOM OF CHAMBER	TOP OF BED	UNDERDRAIN INV. OUT	BEDROCK ELEV.	DETAIL
SDB #1	420.1±	416.30 (WOS#1)		414.05	415.05	418.05	414.05	413.2± (TP-13)	10/CO.4
SDB #2	419.6±	413.44 (WOS#2)	413.77 (DS#4-10)	411.19	412.19	415.19	411.19	412.0± (TP-1)	10/CO.4
SDB #3	418.8±	415.05 (WOS#3)		412.80	413.80	416.80	412.80	428.1± (TP-10)	10/CO.4

SUBSURFACE INFILTRATION BED ELEVATIONS								
STRUCTURE #	MIN. FIN. GRADE	INV. IN ELEV.	INV. IN ELEV.	BOTTOM OF BED	BOTTOM OF CHAMBER	TOP OF BED	BEDROCK ELEV.	DETAIL
SIB #1	420.2±	417.75 (DS#1 & 15)	417.58 (RD#1)	415.50	416.00	419.00	413.2± (TP-13)	6/CO.6

SEWER MANHOLE SCHEDULE						
STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. OUT ELEV.	DETAIL
SMH #1	420.75	416.70 (ALL)			416.50 (SMH#2)	2/CO.6
SMH #2	419.55	415.05 (SMH#1)			414.85 (STREET)	2/CO.6

11 CO.4 TYP. - WATER QUALITY TREATMENT STRUCTURE (WQS) NATURAL GAS-FIRED EMERGENCY GENERATOR. REFER TO ELEC. DWGS.

10 CO.4 SUBSURFACE DETENTION BED (SDB) #1 - 13.0'(W) x 40.3'(L) FOOTPRINT VOLUME = 1,113 CUBIC FEET TYP.(3) - 6" PERF. PVC UNDERDRAIN SET AT BOTTOM OF SAND BEDDING. F&I PVC CAPS ON WEST END AND CONNECT TO 10" PERF. PVC HEADER ON EAST END EMERGENCY GENERATOR DUCTBANK - REFER TO ELEC. DWGS. TYP. - SITE LIGHTING CONDUIT - REFER TO ELEC. DWGS.

6 CO.6 SUBSURFACE INFILTRATION BED (SIB) #1 - 22.5'(W) x 47.34'(L) FOOTPRINT VOLUME = 2,153 CUBIC FEET

3 CO.6 PERFORATED INTERCEPTOR DRAIN ON WEST SIDE OF THE BUILDING (95 LF)

3 CO.6 PERFORATED INTERCEPTOR DRAIN ON WEST SIDE OF THE BUILDING (95 LF)

3 CO.6 PERFORATED INTERCEPTOR DRAIN ON WEST SIDE OF THE BUILDING (95 LF)

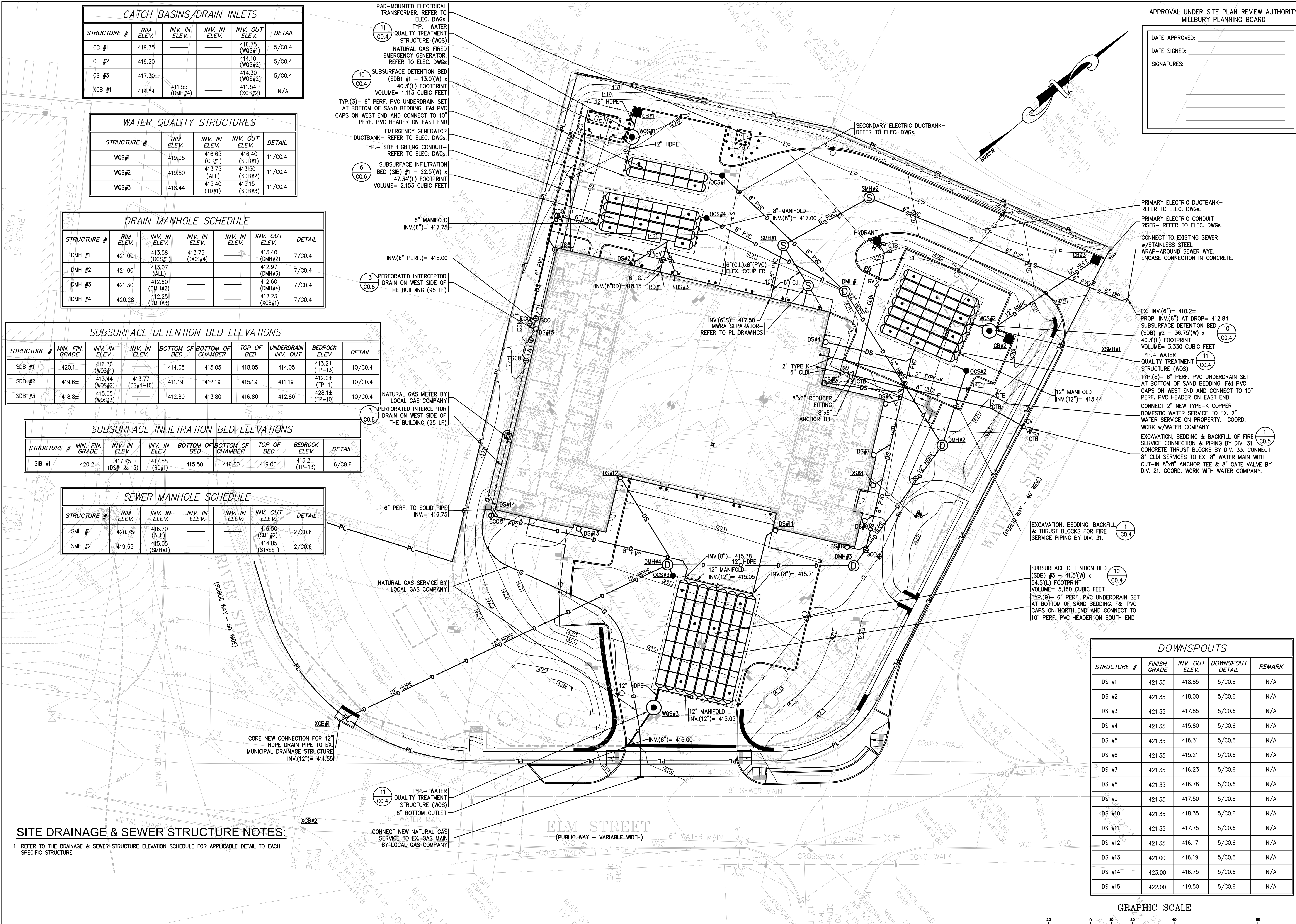
3 CO.6 PERFORATED INTERCEPTOR DRAIN ON WEST SIDE OF THE BUILDING (95 LF)

3 CO.6 PERFORATED INTERCEPTOR DRAIN ON WEST SIDE OF THE BUILDING (95 LF)

3 CO.6 PERFORATED INTERCEPTOR DRAIN ON WEST SIDE OF THE BUILDING (95 LF)

11 CO.4 TYP. - WATER QUALITY TREATMENT STRUCTURE (WQS) 8" BOTTOM OUTLET 16" WATER MAIN CONNECT NEW NATURAL GAS SERVICE TO EX. GAS MAIN BY LOCAL GAS COMPANY

SITE DRAINAGE & SEWER STRUCTURE NOTES:
 1. REFER TO THE DRAINAGE & SEWER STRUCTURE ELEVATION SCHEDULE FOR APPLICABLE DETAIL TO EACH SPECIFIC STRUCTURE.



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PRIMARY ELECTRIC DUCTBANK - REFER TO ELEC. DWGS.
 PRIMARY ELECTRIC CONDUIT RISER - REFER TO ELEC. DWGS.
 CONNECT TO EXISTING SEWER w/STAINLESS STEEL WRAP-AROUND SEWER WYE. ENCASE CONNECTION IN CONCRETE.

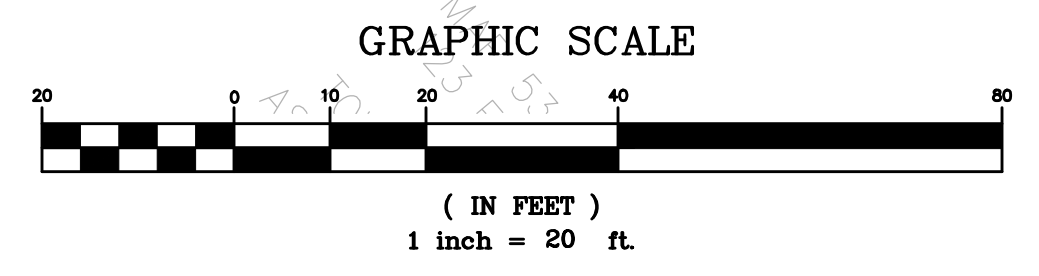
EX. INV.(8") = 410.2±
 PROP. INV.(6") AT DROP = 412.84
 SUBSURFACE DETENTION BED (SDB) #2 - 36.75'(W) x 40.3'(L) FOOTPRINT VOLUME = 3,330 CUBIC FEET TYP. - WATER QUALITY TREATMENT STRUCTURE (WQS) TYP.(8) - 6" PERF. PVC UNDERDRAIN SET AT BOTTOM OF SAND BEDDING. F&I PVC CAPS ON WEST END AND CONNECT TO 10" PERF. PVC HEADER ON EAST END CONNECT 2" NEW TYPE-K COPPER DOMESTIC WATER SERVICE TO EX. 2" WATER SERVICE ON PROPERTY. COORD. WORK w/WATER COMPANY.

EXCAVATION, BEDDING & BACKFILL OF FIRE SERVICE CONNECTION & PIPING BY DIV. 31. CONCRETE THRUST BLOCKS BY DIV. 33. CONNECT 8" CLDI SERVICES TO EX. 8" WATER MAIN WITH CUT-IN 8"x8" ANCHOR TEE & 8" GATE VALVE BY DIV. 21. COORD. WORK WITH WATER COMPANY.

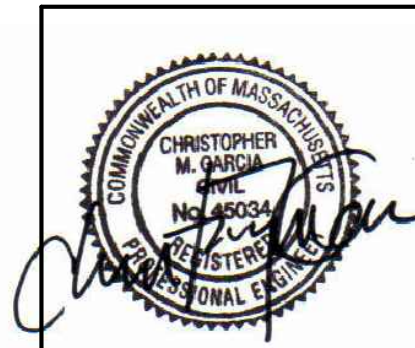
EXCAVATION, BEDDING, BACKFILL & THRUST BLOCKS FOR FIRE SERVICE PIPING BY DIV. 31.

SUBSURFACE DETENTION BED (SDB) #3 - 41.5'(W) x 54.5'(L) FOOTPRINT VOLUME = 5,160 CUBIC FEET TYP.(9) - 6" PERF. PVC UNDERDRAIN SET AT BOTTOM OF SAND BEDDING. F&I PVC CAPS ON NORTH END AND CONNECT TO 10" PERF. PVC HEADER ON SOUTH END

DOWNSPOUTS				
STRUCTURE #	FINISH GRADE	INV. OUT ELEV.	DOWNSPOUT DETAIL	REMARK
DS #1	421.35	418.85	5/CO.6	N/A
DS #2	421.35	418.00	5/CO.6	N/A
DS #3	421.35	417.85	5/CO.6	N/A
DS #4	421.35	415.80	5/CO.6	N/A
DS #5	421.35	416.31	5/CO.6	N/A
DS #6	421.35	415.21	5/CO.6	N/A
DS #7	421.35	416.23	5/CO.6	N/A
DS #8	421.35	416.78	5/CO.6	N/A
DS #9	421.35	417.50	5/CO.6	N/A
DS #10	421.35	418.35	5/CO.6	N/A
DS #11	421.35	417.75	5/CO.6	N/A
DS #12	421.35	416.17	5/CO.6	N/A
DS #13	421.00	416.19	5/CO.6	N/A
DS #14	423.00	416.75	5/CO.6	N/A
DS #15	422.00	419.50	5/CO.6	N/A



1 SITE UTILITY PLAN
 SCALE: 1"=20'



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SITE PLAN REVIEW UPDATES:
 MARCH 1, 2021
 NOT FOR CONSTRUCTION

Millbury Fire Station
 130 Elm Street, Millbury, MA
 project number: 1902
Site Utility Plan

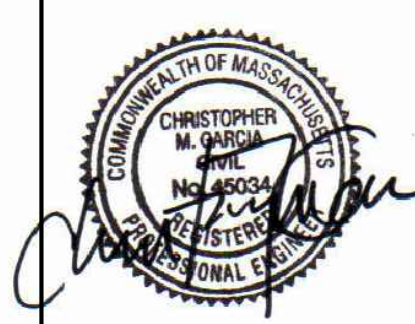
Scale: 1" = 20'
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No. Issue Date
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C2.1

APPROVAL UNDER SITE PLAN REVIEW AUTHORITY
MILLBURY PLANNING BOARD

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 SIGNATURES: _____



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 100 STATE STREET, SUITE 200, BOSTON, MA 02109
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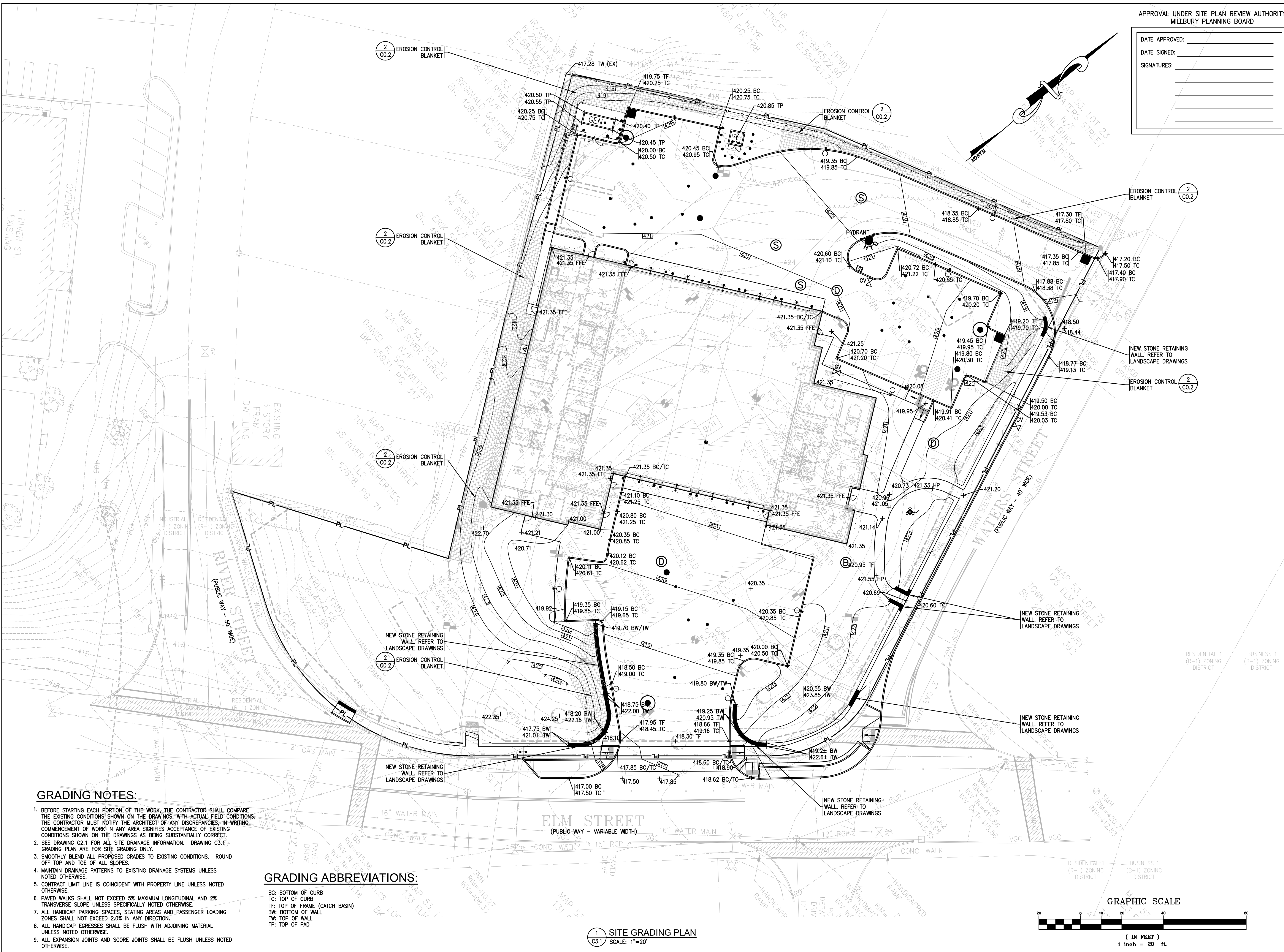
SITE PLAN REVIEW UPDATES:
 MARCH 1, 2021
 NOT FOR CONSTRUCTION

Millbury Fire Station
 130 Elm Street, Millbury, MA
 project number: 1902
Site Grading Plan

Scale: 1" = 20'
 Drawn by: NCK

No. Issue Date
 1 PLANNING BOARD 1/25/21
 2 PB REVISIONS 3/1/21

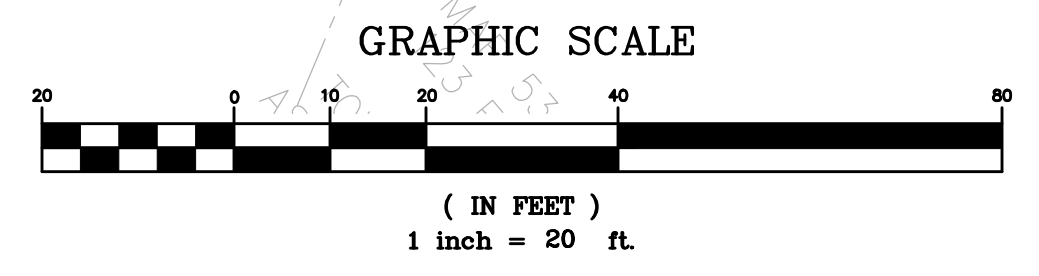
C3.1

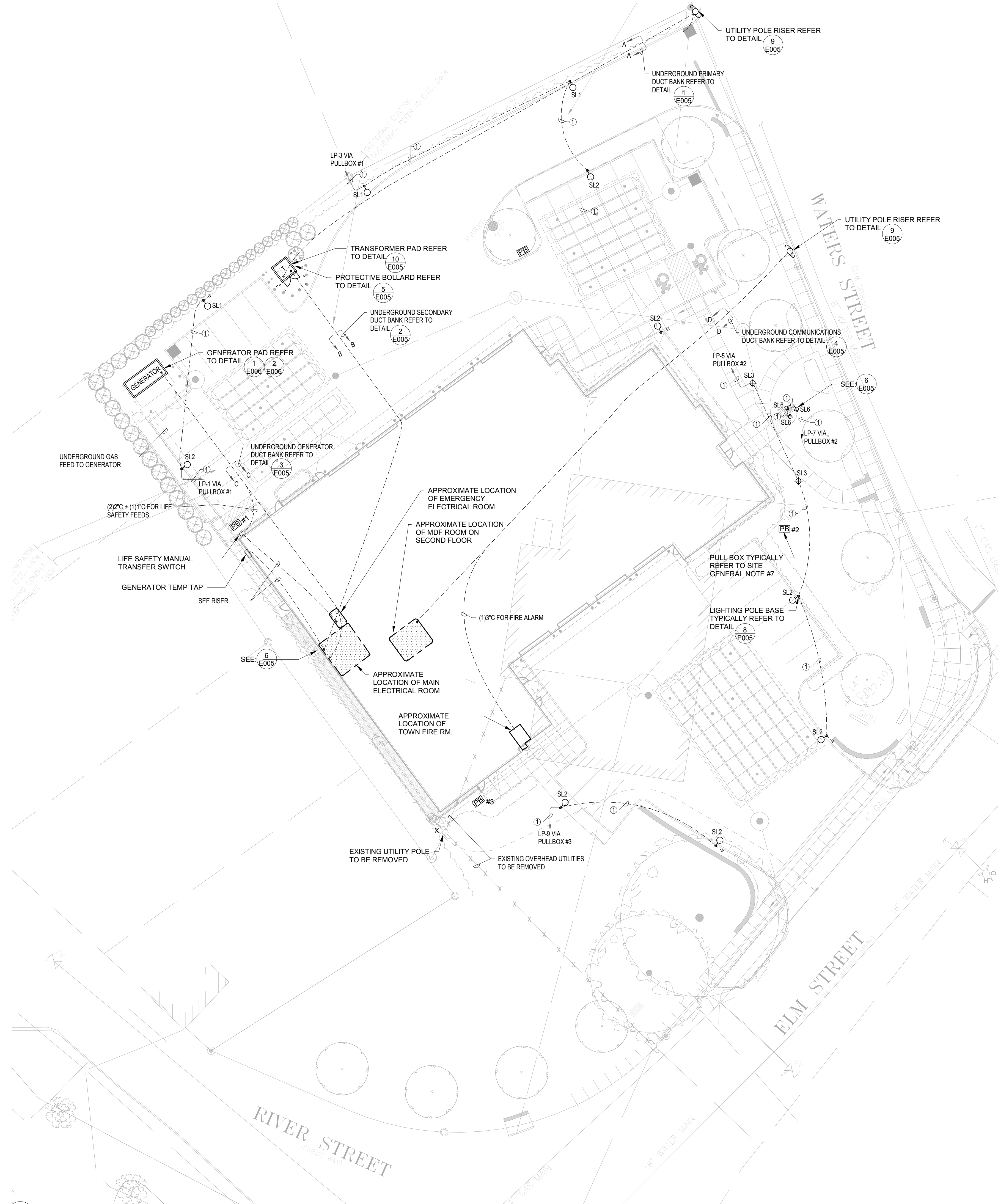


- GRADING NOTES:**
- BEFORE STARTING EACH PORTION OF THE WORK, THE CONTRACTOR SHALL COMPARE THE EXISTING CONDITIONS SHOWN ON THE DRAWINGS, WITH ACTUAL FIELD CONDITIONS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, IN WRITING, COMMENCEMENT OF WORK IN ANY AREA, SIGNIFYING ACCEPTANCE OF EXISTING CONDITIONS SHOWN ON THE DRAWINGS AS BEING SUBSTANTIALLY CORRECT.
 - SEE DRAWING C2.1 FOR ALL SITE DRAINAGE INFORMATION. DRAWING C3.1 GRADING PLAN ARE FOR SITE GRADING ONLY.
 - SMOOTHLY BLEND ALL PROPOSED GRADES TO EXISTING CONDITIONS. ROUND OFF TOP AND TOE OF ALL SLOPES.
 - MAINTAIN DRAINAGE PATTERNS TO EXISTING DRAINAGE SYSTEMS UNLESS NOTED OTHERWISE.
 - CONTRACT LIMIT LINE IS COINCIDENT WITH PROPERTY LINE UNLESS NOTED OTHERWISE.
 - PAVED WALKS SHALL NOT EXCEED 5% MAXIMUM LONGITUDINAL AND 2% TRANSVERSE SLOPE UNLESS SPECIFICALLY NOTED OTHERWISE.
 - ALL HANDICAP PARKING SPACES, SEATING AREAS AND PASSENGER LOADING ZONES SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
 - ALL HANDICAP EGRESSES SHALL BE FLUSH WITH ADJOINING MATERIAL UNLESS NOTED OTHERWISE.
 - ALL EXPANSION JOINTS AND SCORE JOINTS SHALL BE FLUSH UNLESS NOTED OTHERWISE.

- GRADING ABBREVIATIONS:**
- BC: BOTTOM OF CURB
 - TC: TOP OF CURB
 - TF: TOP OF FRAME (CATCH BASIN)
 - BW: BOTTOM OF WALL
 - TP: TOP OF WALL
 - TP: TOP OF PAD

1 SITE GRADING PLAN
 C3.1 SCALE: 1"=20'



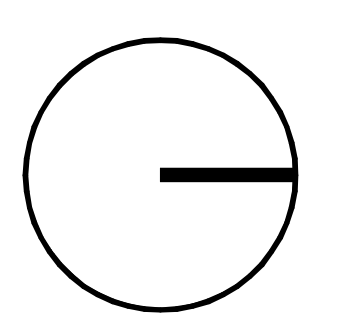


- ELECTRICAL SITE NOTES:**
- DO NOT RUN ANY UNDERGROUND RACEWAYS WITHIN PLANTING AREAS OR LEACHING FIELDS. REFER TO DRAWINGS FOR LOCATIONS. COORDINATE ROUTING WITH LANDSCAPE ARCHITECT.
 - REFER TO CIVIL DRAWINGS FOR EXACT ROUTING OF UTILITIES. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATION OF SITE FIXTURES.
 - ALL SITE WIRING SHALL BE 2#8
G, 1" MINIMUM UNLESS SHOWN OTHERWISE.
 - ALL EXTERIOR LIGHTING TO BE PROGRAMMED FOR PHOTOCELL "ON", "TIMED "OFF" AND DIMMED LEVELS (VIA 0-10V SIGNAL). PROVIDE INDIVIDUAL CONTROL FOR EACH CIRCUIT. COORDINATE PROGRAMMING WITH OWNER. (REFER TO ALCS ONE-LINE DIAGRAM & SPECIFICATIONS).
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EXTERIOR WALL MOUNTED LIGHTING.
 - REMOVE ALL SITE ELECTRICS WHEN NO LONGER REQUIRED.
 - PROVIDE 17"x30"x12" GROUND MOUNTED PULL BOX (QUAZITE #PC1730BA12 WITH COVER #PC1730CA17 OR SAME BY CARSON, HIGHLINE, STRONGWELL, OR EQUAL. RUN ALL SITE LIGHTING VIA PULL BOX. ALSO PROVIDE (1) "SPARE WITH PULL LINE BETWEEN PULL BOX AND NEAREST ELECTRIC ROOM. LABEL @ EACH END.
 - PROVIDE LIGHTNING PROTECTION SYSTEM FOR COVERAGE OF ENTIRE FACILITY.
 - PROVIDE 12"x12"x12" GROUND MOUNTED PULL BOX (QUAZITE #PC1212BG12 WITH COVER #PC1212CG12 OR SAME BY CARSON, HIGHLINE, STRONGWELL, OR EQUAL) AT ALL POLES WITH THREE PAIRS OF 1" CONDUITS APPROACHING BASE TO ALLOW FOR SINGLE PAIR TO ENTER BASE.
 - GENERATOR EMISSIONS EXHAUST SHALL MAINTAIN 25 FEET CLEARANCE FROM ANY OPERABLE WINDOWS OR INTAKE LOUVERS. COMPLY WITH ALL FEDERAL EPA AND STATE DEP REQUIREMENTS.

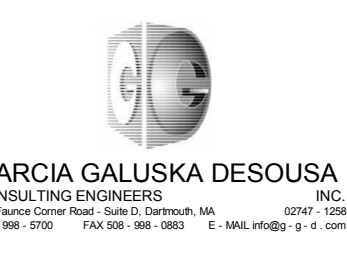
SITE WIRING LEGEND:

① 2#8, 1#10G, 1", 24" BELOW GRADE

1 ELECTRICAL SITE PLAN
E004
SCALE: 1" = 20'-0"



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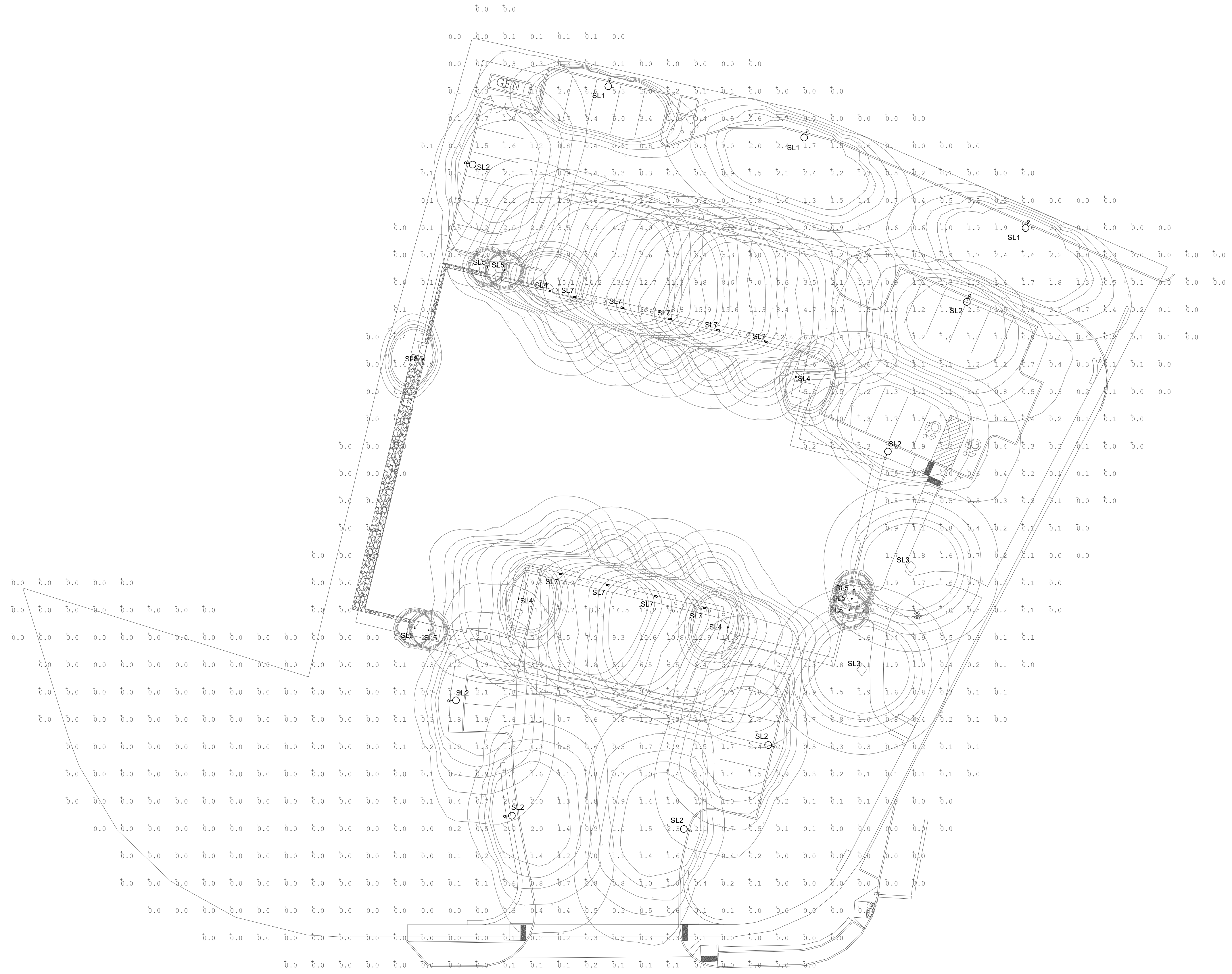
GARCIA GALUSKA DESOUSA
CONSULTING ENGINEERS INC.
575 Francis Court, Suite 300, Framingham, MA 01901
TEL 508.885.8700 FAX 508.885.8700

MILLBURY FIRE STATION
130 ELM ST MILLBURY, MA 01527
project number: 1902.00
ELECTRICAL SITE PLAN

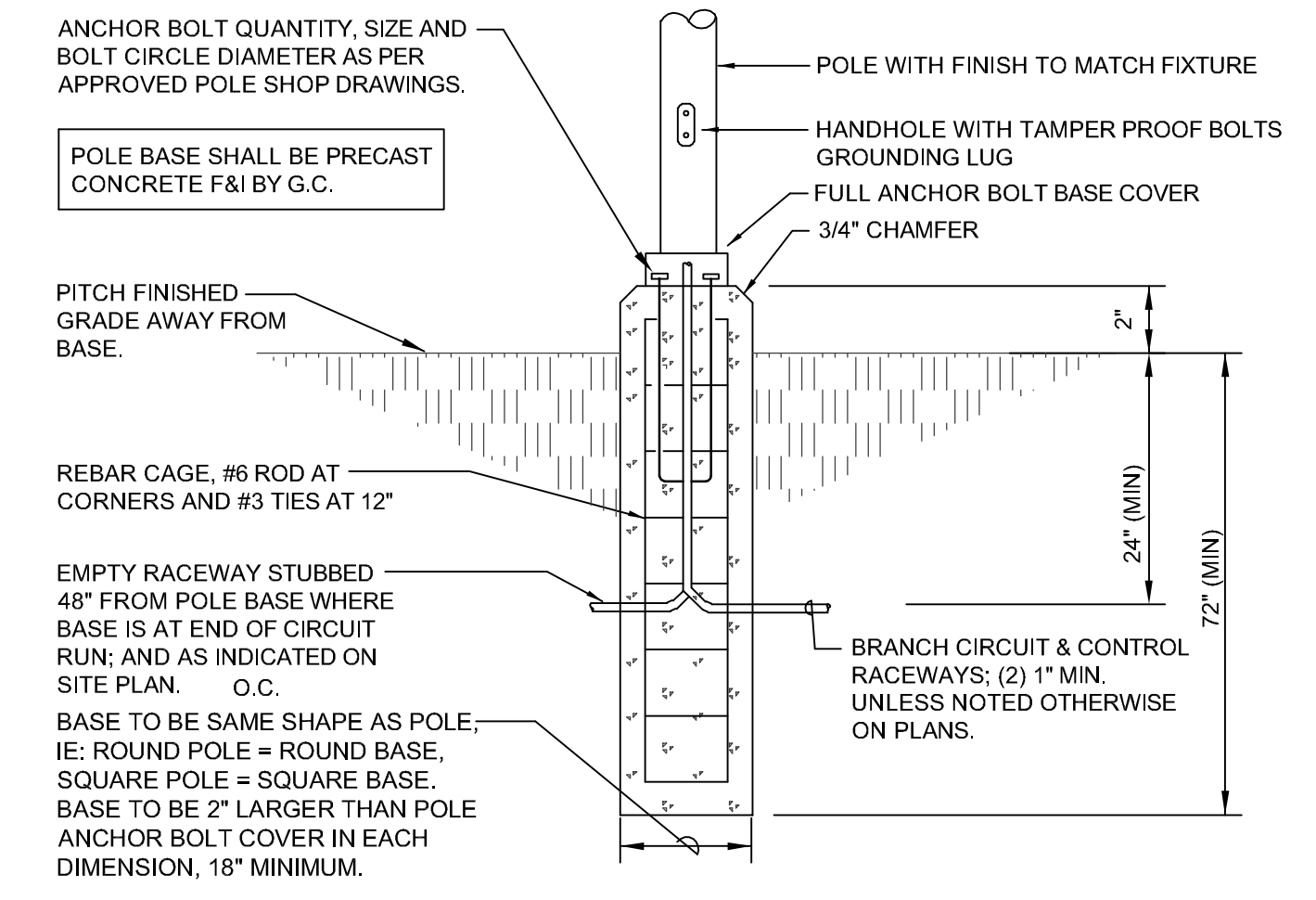
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No.	Issue	Date

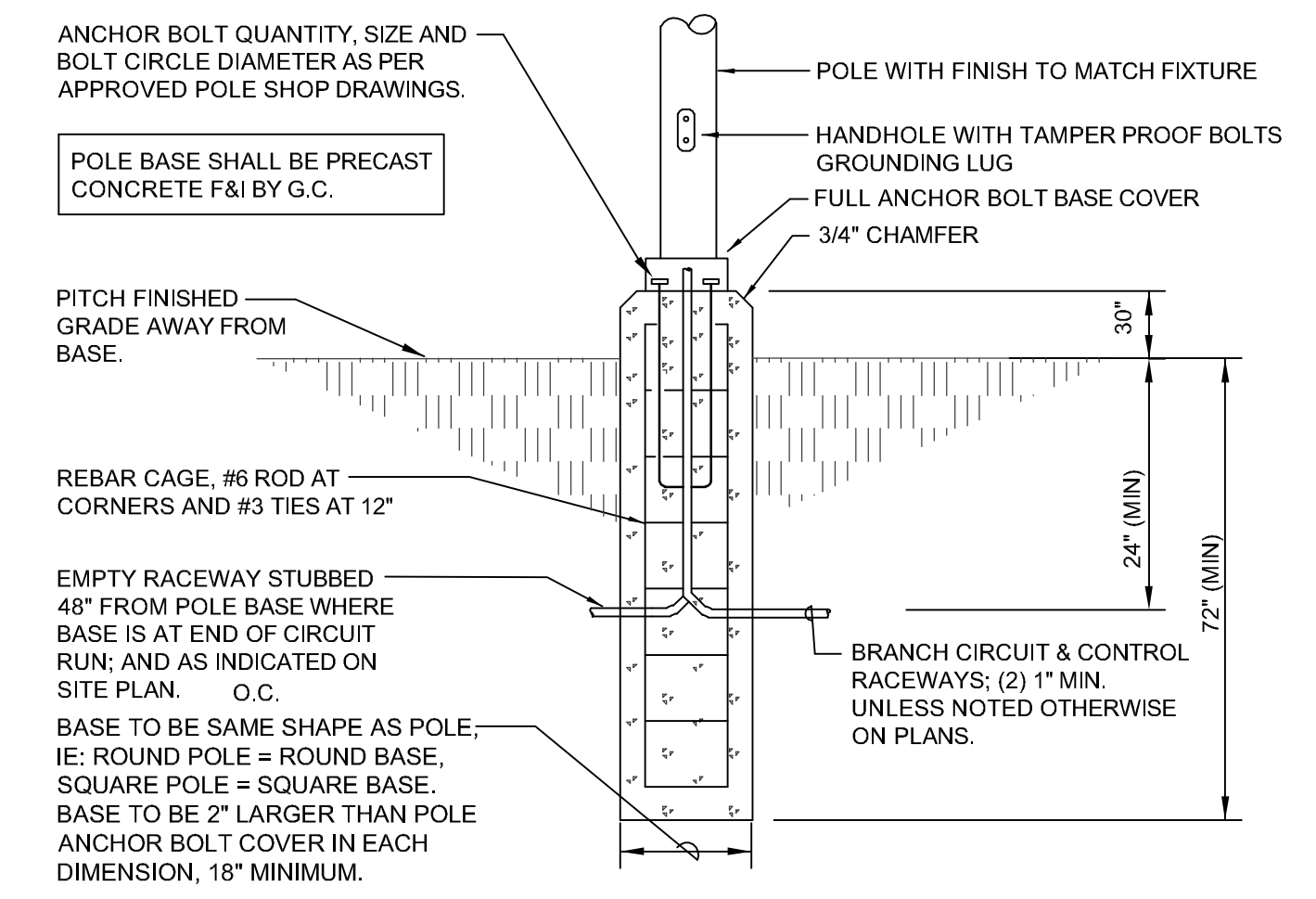
E004



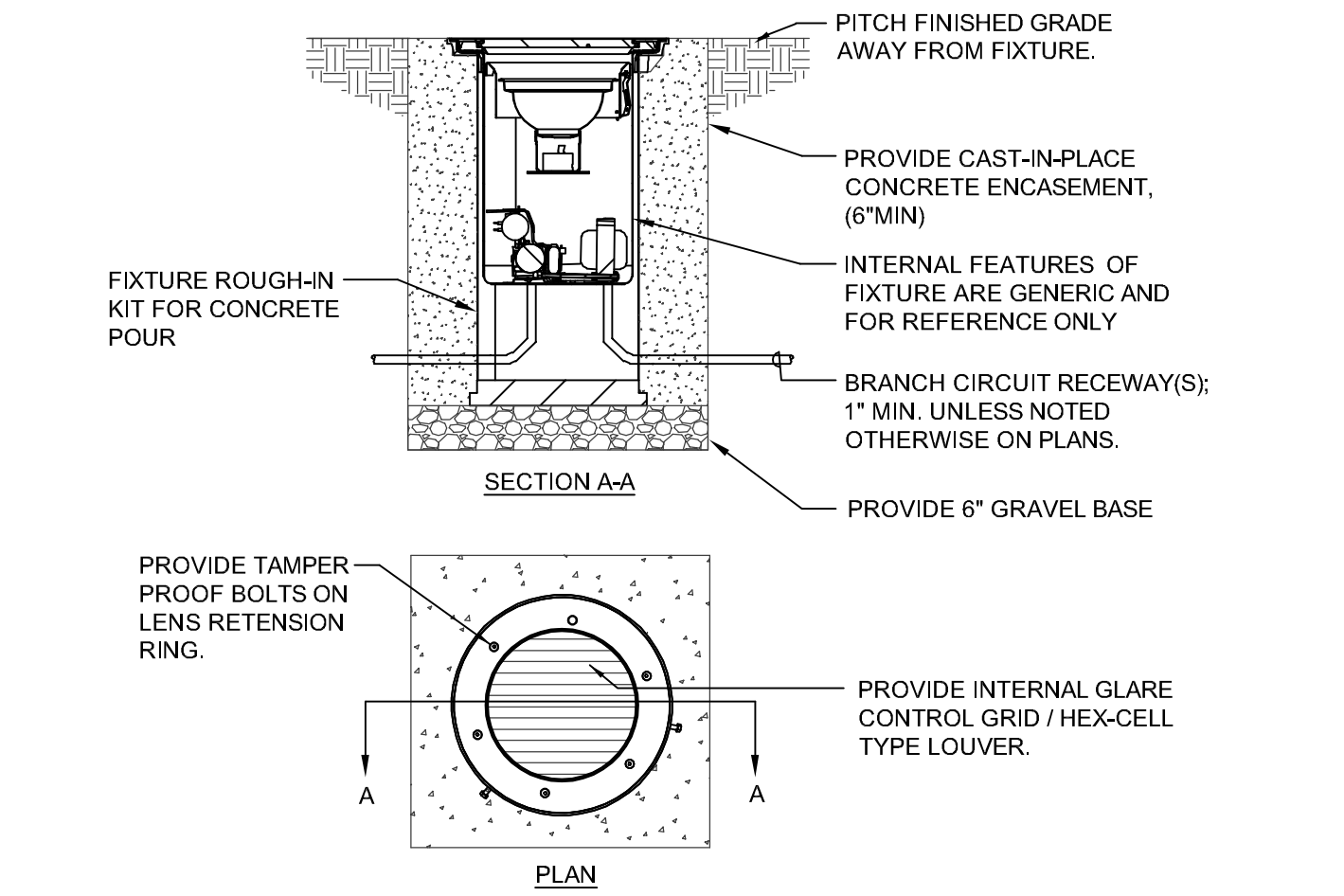
1 SITE PHOTOMETRIC PLAN
 LC001 SCALE: 1"=0' = 20'-0"



2 LIGHTING POLE BASE DETAIL BEHIND CURBING
 LC001 SCALE: N.T.S.

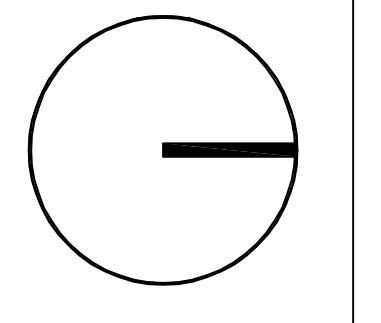


3 LIGHTING POLE BASE DETAIL IN PARKING AREAS
 LC001 SCALE: N.T.S.



4 IN-GRADE FLAG POLE LIGHTING DETAIL
 LC001 SCALE: N.T.S.

NOTES:
 1. THIS DETAIL SHALL BE TYPICAL FOR FIXTURE TYPE SL6 & SL7



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 CONSULTING ENGINEERS
 INC.
 100 WASHINGTON STREET, 10TH FLOOR, BOSTON, MA 02108
 TEL: 617.552.1100 FAX: 617.552.1101 WWW: GGDENGINEERS.COM

MILLBURY PUBLIC SAFETY
 130 ELM ST MILLBURY, MA 01527
 project number: 1902.00
 SITE PHOTOMETRIC PLAN

Scale: AS NOTED
 Drawn by: MFM

No. 1 Issue 1
 Date 1/25/21
 PLANNING BOARD SUBMISSION

LC001

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	MODEL / SERIES NUMBER	MTG.	VOLTAGE	LIGHTING SOURCE			DESCRIPTION	MOUNTING HEIGHT ABOVE FINISHED GRADE (A.F.G.)
					LUMENS	WATTS	SOURCE/CCT		
SL1	LITHONIA	DSX0-LED-P1-40K-BLC-MVOLT-XX-PER7-XX + 16-RND-TP-ALUM-POLE	POLE	UNIVERSAL	3862	38	LED/4000K	POLE FIXTURE W/ TYPE III DISTRIBUTION & SPILL CONTROL MOUNTED ON ROUND ALUMINUM TAPERED POLE RATED FOR 110MPH WIND CONDITIONS	(16'-0") A.F.G.
SL2	LITHONIA	DSX0-LED-P1-40K-T4M-MVOLT-XX-PER7-XX + 16-RND-TP-ALUM-POLE	POLE	UNIVERSAL	3579	38	LED/4000K	POLE FIXTURE W/ TYPE II DISTRIBUTION & SPILL CONTROL MOUNTED ON ROUND ALUMINUM TAPERED POLE RATED FOR 110MPH WIND CONDITIONS	(16'-0") A.F.G.
SL3	LITHONIA	RADPT-LED-P1-40K-SYM-MVOLT-XX-XX-XX-XX + 12-RND-TP-ALUM-POLE	POLE	UNIVERSAL	3343	26	LED/4000K	POST TOP MOUNTED FIXTURE W/ TYPE V DISTRIBUTION MOUNTED ON ROUND ALUMINUM TAPERED POLE RATED FOR 110MPH WIND CONDITIONS	(12'-0") A.F.G.
SL4	LITHONIA	WDGE1-LED-P1-40K-80CRI-VF-MVOLT-XX-XX-XX	R	UNIVERSAL	1227	10	LED/4000K	LED WALL MOUNTED FIXTURE WITH TYPE IV DISTRIBUTION AND INTEGRAL BATTERY BACK UP AND 0-10V DIMMING CAPABILITY.	(8'-0") A.F.G.
SL5	GOTHAM	EV04-40-10-AR-XX-LSS-MVOLT-GZ10-XX-EL	W	UNIVERSAL	959	8.8	LED/4000K	LED RECESSED MOUNTED FIXTURE PROVIDED WITH A MINIMUM IP65 RATING FOR USE IN EXTERIOR APPLICATIONS UNDER COVERED CANOPY.	CANOPY
SL6	TARGETTI	KPL-10-ZM-L2-40-1E2325-XX	S	UNIVERSAL	1312	36	LED/4000K	LED IP68 RATED FIXTURE SUITABLE FOR USE IN GRADE. FIXTURE CAPABLE OF ADJUSTING BOTH DISTRIBUTION ANGLE AND AIMING.	IN-GRADE
SL7	LITHONIA	WDGE3-LED-P3-40K-80CRI-R4-MVOLT-XX-XX-XX	W	UNIVERSAL	10,360	71	LED/4000K	LED WALL MOUNTED FIXTURE ABOVE APPARATUS DOORS WITH TYPE IV DISTRIBUTION. FIXTURE TO BE PROVIDED WITH 0-10V DIMMING CAPABILITY.	(14'-0") A.F.G.
SL8	LITHONIA	WDGE1-LED-P1-40K-80CRI-VW-MVOLT-XX-XX-XX	W	UNIVERSAL	1229	10	LED/4000K	LED WALL MOUNTED FIXTURE WITH TYPE III DISTRIBUTION AND INTEGRAL BATTERY BACK UP AND 0-10V DIMMING CAPABILITY.	(7'-0") A.F.G.

MOUNTING DESIGNATIONS			
POLE	POLE	U	UNIVERSAL
BOL	BOLLARD	W	WALL
R	RECESSED	S	SURFACE



1
LC002 POLE MOUNTED AREA LIGHTING FIXTURE
SCALE: N.T.S.



2
LC002 POLE MOUNTED POST TOP FIXTURE
SCALE: N.T.S.



3
LC002 RECESSED CANOPY DOWNLIGHT
SCALE: N.T.S.



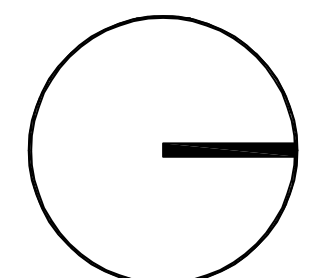
4
LC002 IN-GRADE FLAG POLE FIXTURE
SCALE:



5
LC002 WALL MOUNTED FIXTURE
SCALE: N.T.S.



6
LC002 WALL MOUNTED FIXTURE
SCALE:



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ARCHITECTURE
68 HARRISON AVENUE BOSTON, MA 02111 TEL: 617.423.1400 WEB: CONTEXTARC.COM



GARCIA GALUSKA DESOUSA
CONSULTING ENGINEERS
INC.
100 South Street, Suite 200, Boston, MA 02111
TEL: 617.552.1100 FAX: 617.552.1101 WWW: GARDDES.COM

MILLBURY PUBLIC SAFETY
130 ELM ST MILLBURY, MA 01527
project number: 1902.00
SITE PHOTOMETRIC DETAILS

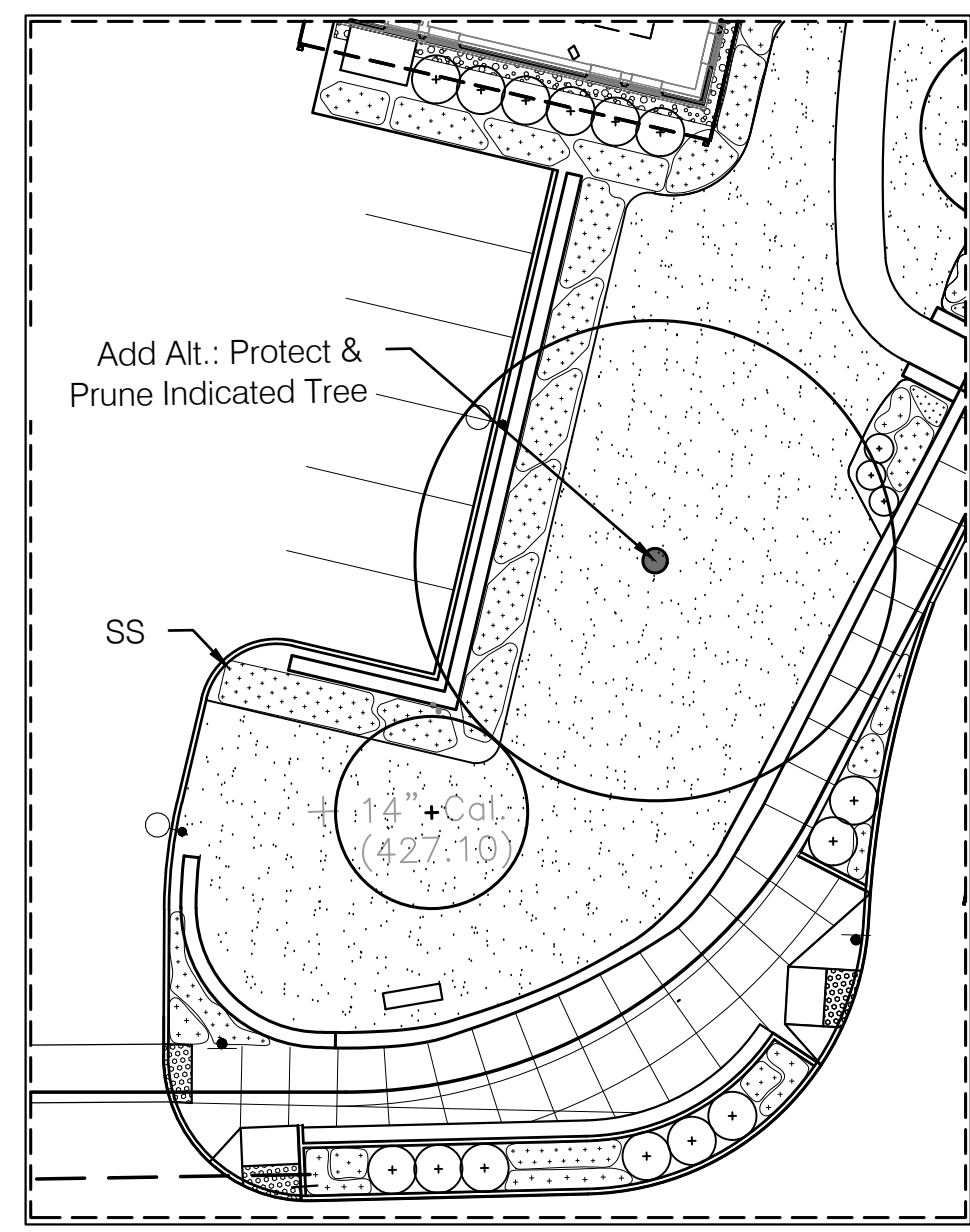
Scale: AS NOTED
Drawn by: MFMM

No. Issue Date
1 PLANNING BOARD 1/25/21
SUBMISSION

LC002

PLANTING PALETTE

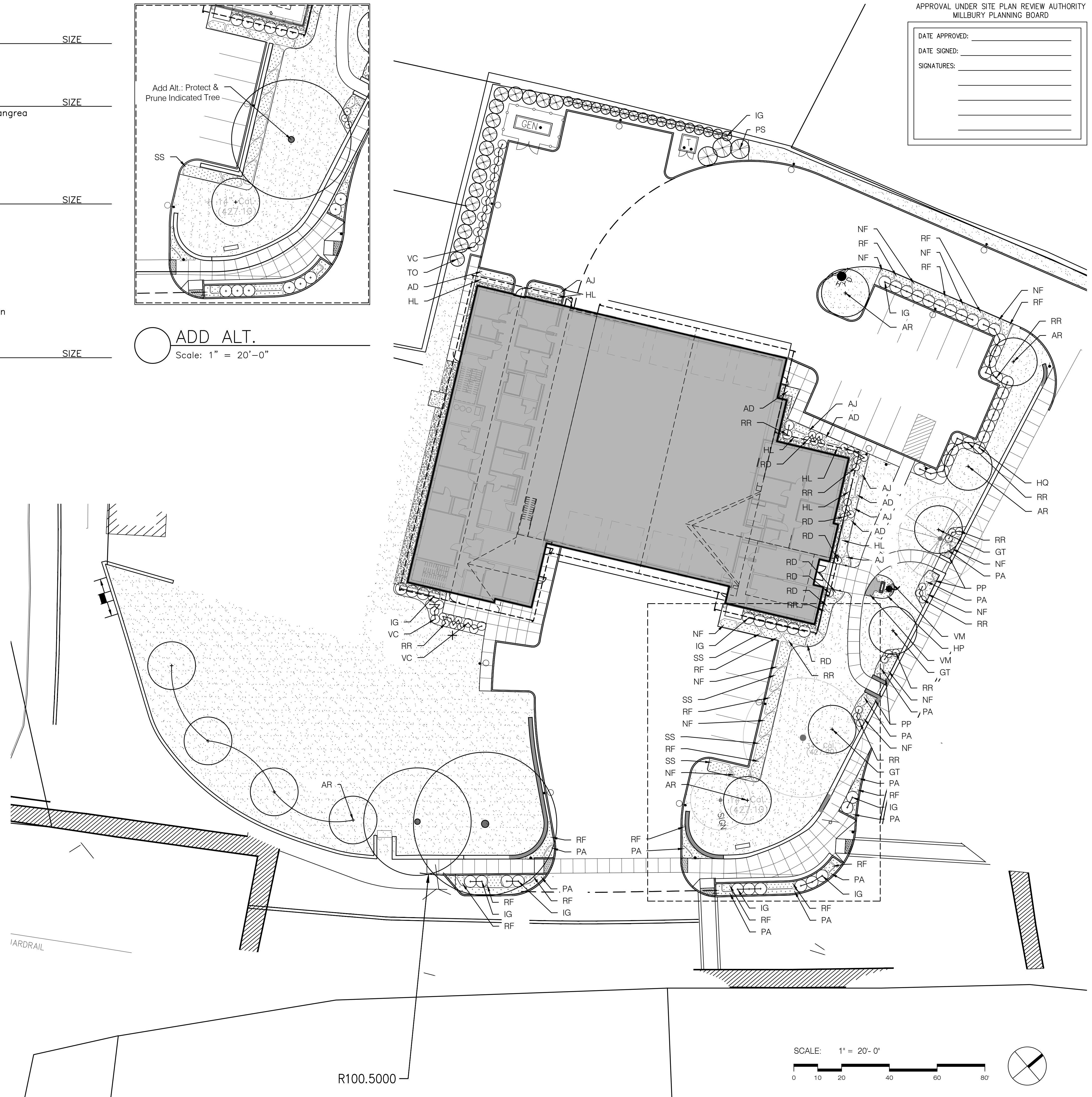
TREES				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AR		Acer rubrum 'October Glory'	Red Maple	
GT		Gleditsia triacanthos 'Skyline'	Skyline Honey Locust	
PS		Pinus strobus	White Pine	
SHRUBS				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE
HQ		Hydrangrea quercifolia 'Ruby Slippers'	Ruby Slippers Oakleaf Hydrangrea	
IG		Ilex glabra 'Densa'	Inkberry	
RD		Rhododendron 'Dora Amateis'	Dora Amateis Rhododendron	
RR		Rosa x 'Radtko'	Double Knockout Rose	
TO		Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	
VC		Viburnum carlesii 'Compactum'	Koreanspice Viburnum	
PERENNIALS				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AD		Astilbe x arendsii 'Deutschland'	Deutschland Astilbe	
AJ		Astilbe x arendsii 'Jump and Jive'	Jump and Jive Astilbe	
CA		Coreopsis auriculata 'Nana'	Mouse Ear Coreopsis	
EP		Echinacea purpurea 'Powwow Wild Berry'	Purple Coneflower	
HL		Hosta 'Love Pat'	Love Pat Hosta	
HP		Hosta x 'Patriot'	Patriot Hosta	
NF		Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint	
PA		Pennisetum alopecuroides 'Hameln'	Hameln Fountain Grass	
PP		Phlox stolonifera 'Pink Ridge'	Pink Ridge Creeping Phlox	
RF		Rudbeckia fulgida 'Goldsturm'	Goldsturm Black-Eyed Susan	
SS		Sedum spectabile 'Autumn Joy'	Autumn Joy Sedum	
GROUNDCOVER				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE
VM		Vinca minor	Common Periwinkle	



○ ADD ALT.
Scale: 1" = 20'-0"

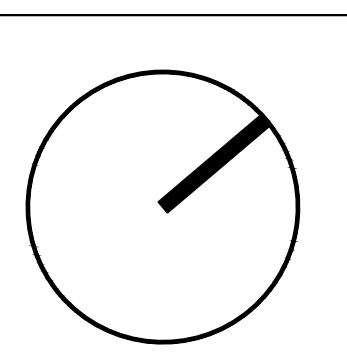
PLANTING NOTES

- The Contractor shall protect all utilities prior to starting construction.
- The Contractor shall supply all plant materials in quantities sufficient to complete all planting shown on this drawing.
- All plant materials to conform to guidelines established by the American Standard for Nursery Stock published by the American Assn. of Nurserymen.
- All plant materials to be selected by the Landscape Architect at the nursery unless otherwise directed by the Landscape Architect.
- Landscape Architecture to tag all trees and shrubs at nursery and approve all plant materials on site prior to installation.
- All plants to be located on the site for approval of the Landscape Architect prior to installation.
- If the Plant List does not agree with the Planting Plan, the Plan shall be followed.
- The Contractor shall guarantee all plant materials for one year following installation. Contractor to be responsible for first mowing of lawn.
- All plant beds to receive 3" un-dyed shredded bark mulch; supply sample for approval by Landscape Architect.
- All planting beds to have a minimum 12" depth of topsoil.
- All lawn areas to be hydroseeded. Remove old lawn, weeds and mulch and rototill. Add topsoil so that all lawn areas have a minimum 6" depth of topsoil. See specs for soil and hydroseeding requirements, maintenance and warranty.
- No substitution of plant materials shall be allowed without approval of Landscape Architect.
- Maintenance shall begin immediately after an area is planted and shall continue until final acceptance. The minimum maintenance period shall be ninety (90) calendar days after completion of all plant installations. Watering and mowing shall be done by the Contractor for the full 90 days.



APPROVAL UNDER SITE PLAN REVIEW AUTHORITY
MILLBURY PLANNING BOARD

DATE APPROVED: _____
DATE SIGNED: _____
SIGNATURES: _____



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ARCHITECTURE
68 HARRISON AVENUE BOSTON, MA 02111 TEL 617.433.1400 WEB CONTEXTARCH.COM

CBA | Landscape Architects LLC
24 THORNDIKE STREET CAMBRIDGE, MA 02141
phone 617.845.9760 | www.cbaland.com | cba@cbaland.com
landscape architecture
urban design
master planning

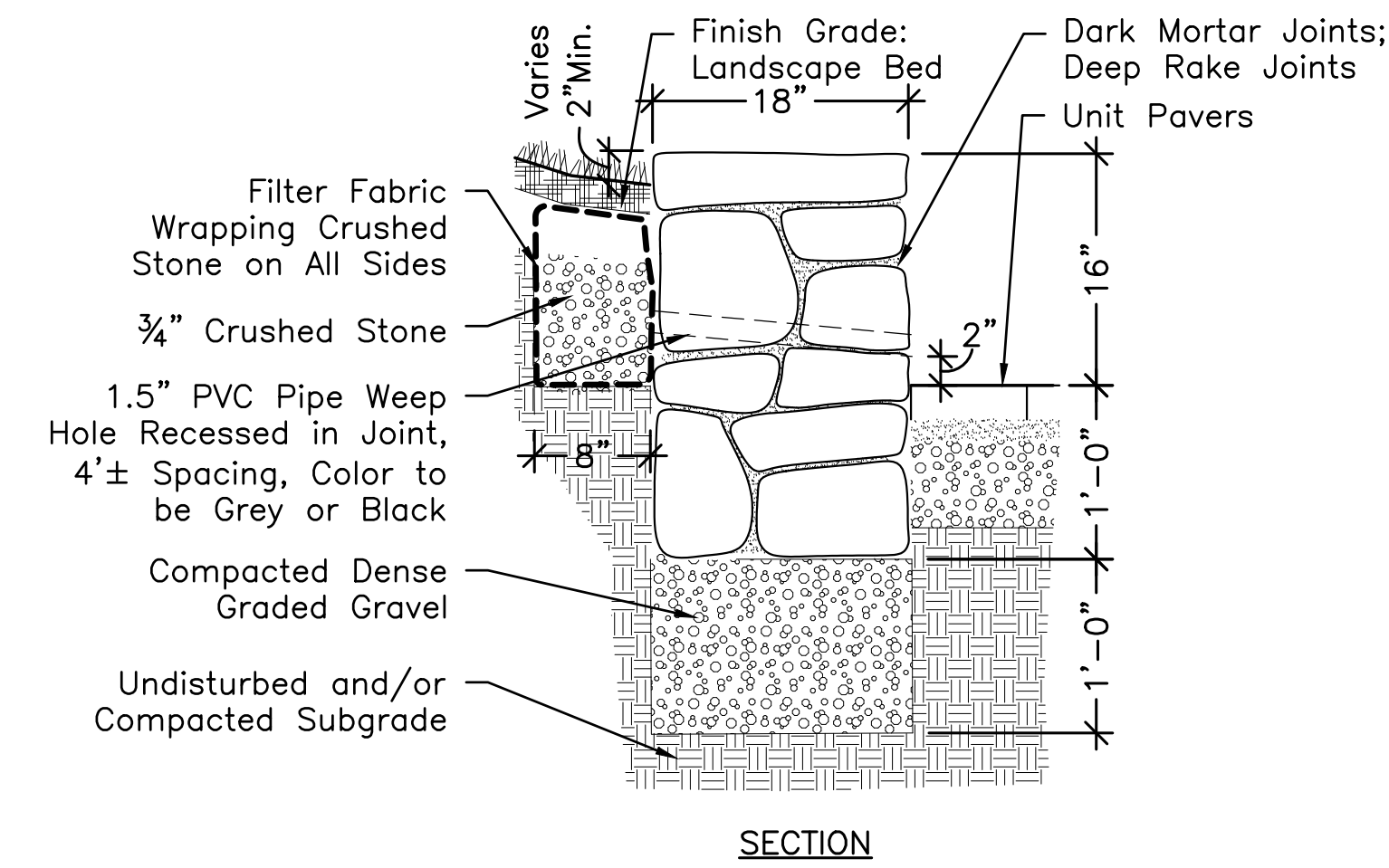
MILLBURY FIRE STATION
ELM STREET, MILLBURY MA 01527
project number:
LANDSCAPE PLANTING PLAN

Scale: 1" = 20'-0"
Drawn by: EAT/DJC

No. Issue Date
1 Planning Board 1/25/21

L3.0

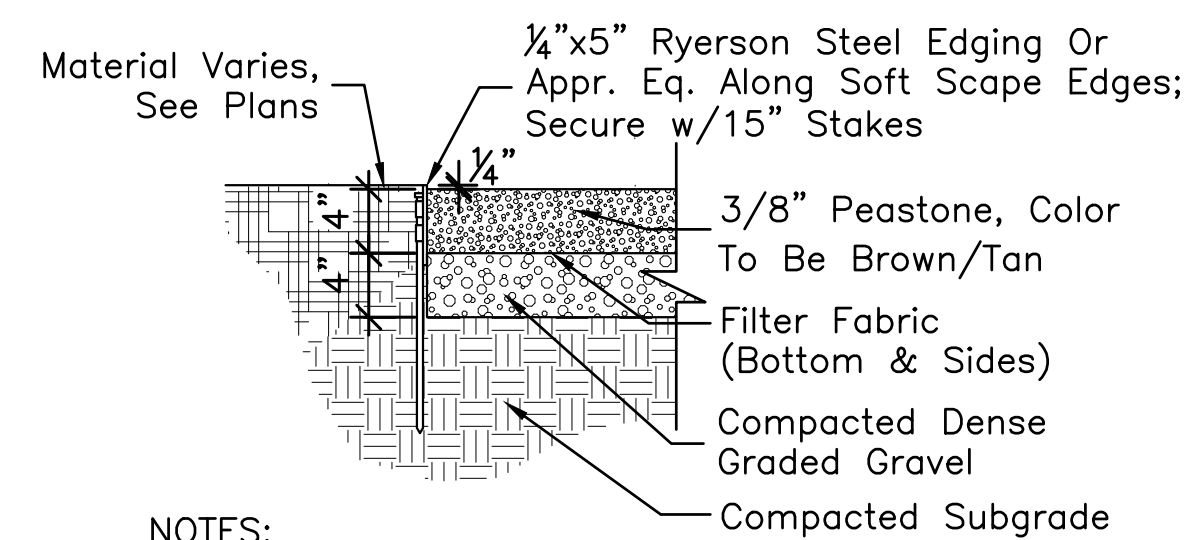
DATE APPROVED: _____
DATE SIGNED: _____
SIGNATURES: _____



- NOTES:**
- Landscape Architect to approve sample section of wall before construction proceeds.
 - Construct 10' sample section of wall for approval by Landscape Architect before continuing installation.
 - Top layer of wall to be composed of full-width stones.
 - New and rebuilt sections of stone wall to be composed of salvaged stones from existing wall; if additional stone is required, supply sample of stone for approval.

1 Low Fieldstone Retaining Wall

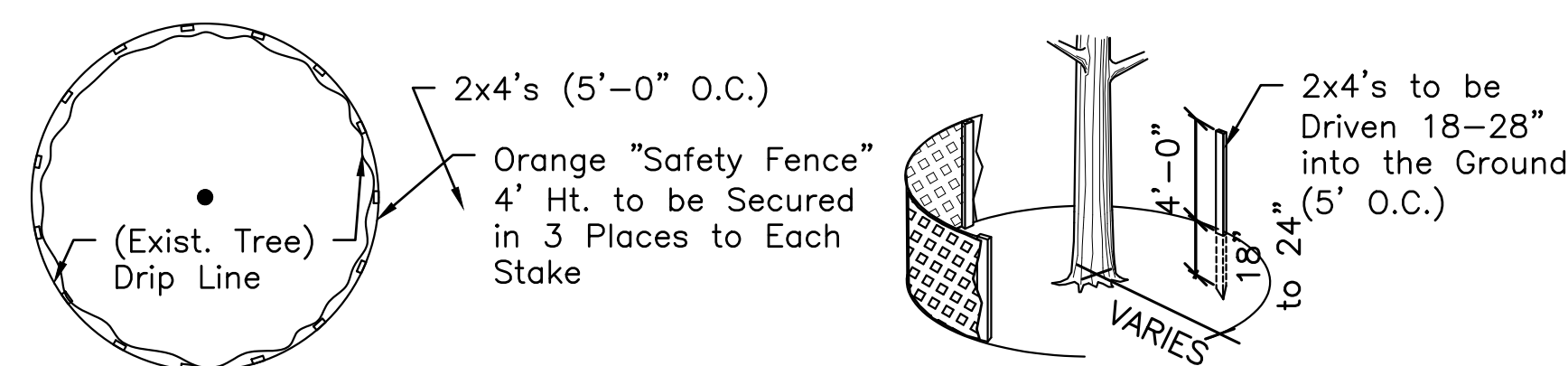
Scale: 1" = 1'-0"



- NOTES:**
- Provide sample of peastone and manufacturer's information on Ryerson Steel edging for approval.

2 Peastone Drip Edge

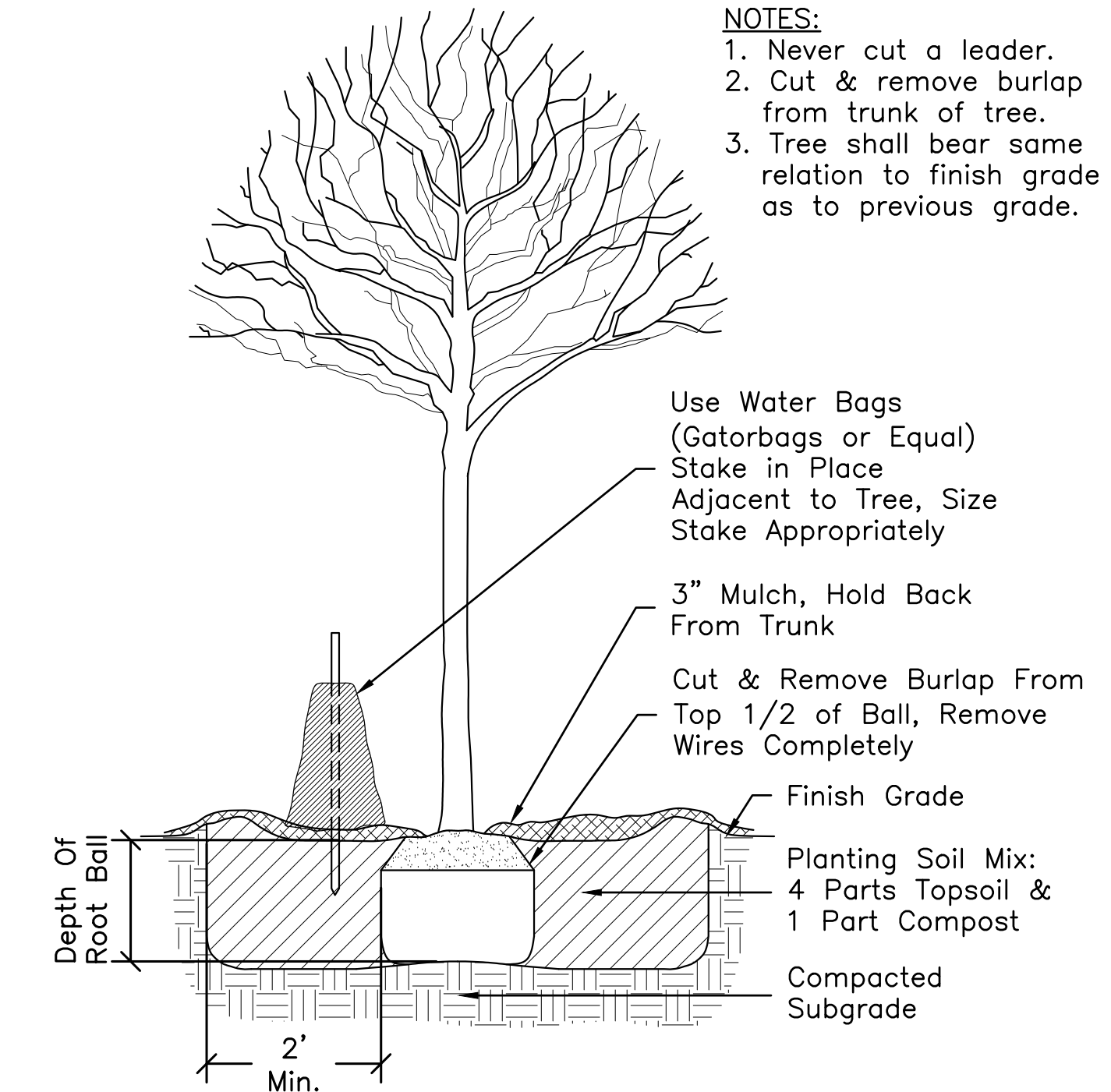
Scale: 1" = 1'-0"



- NOTES:**
- Maintain fence protection in sound condition until project completion.
 - Protective fence to run outside dripline unless otherwise required to install improvements. Spray or stake layout of all proposed paving edges and site features within the dripline of existing trees before beginning any demolition work or remove existing material in order to determine the maximum extents of site fencing. Layout shown above is diagrammatic only.
 - Landscape Architect and Owner's Representative to approve fence placement in field before construction begins.

3 Tree Protection

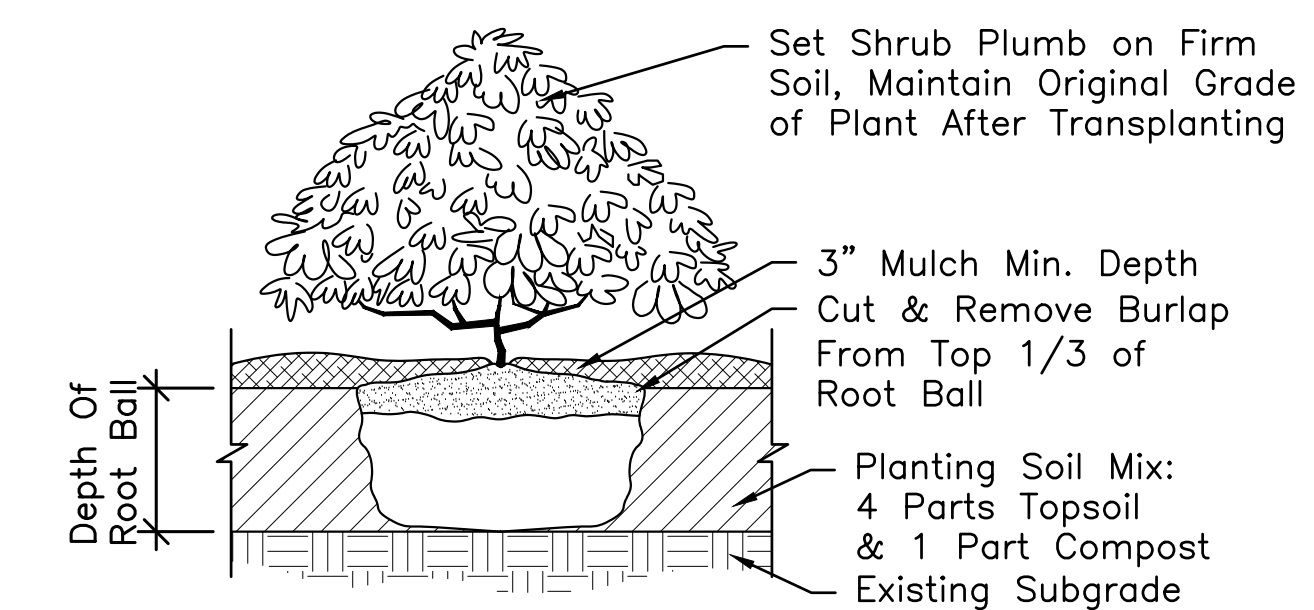
Scale: 1/2" = 1'-0"



- NOTES:**
- Never cut a leader.
 - Cut & remove burlap from trunk of tree.
 - Tree shall bear same relation to finish grade as to previous grade.

4 Tree Planting

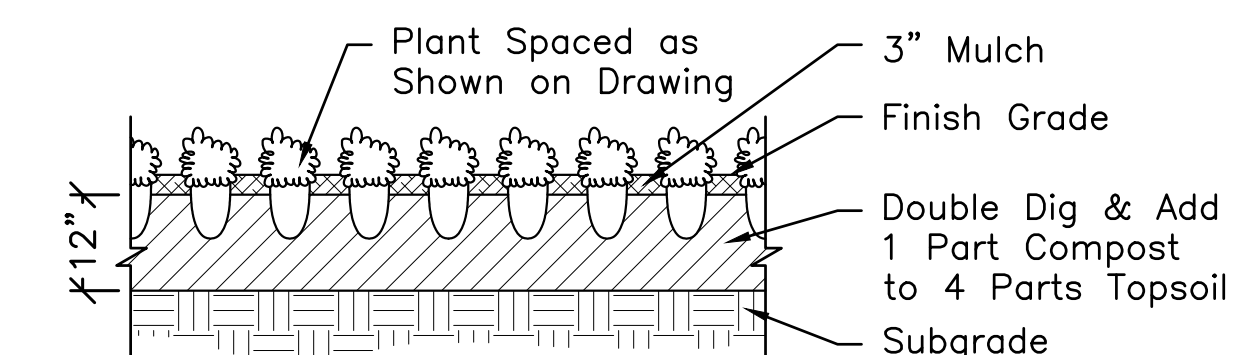
Scale: 1/2" = 1'-0"



- NOTE:**
New shrub beds to have a minimum of one foot planting soil.

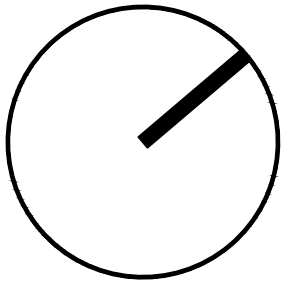
5 Shrub Planting

Scale: 1/2" = 1'-0"



6 Groundcover & Perennial Planting

Scale: 1/2" = 1'-0"



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CBA | Landscape Architects LLC
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project number:
LANDSCAPE DETAILS

Scale: 1" = 20'-0"
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No. Issue Date
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L4.0