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# TOWN OF SCITUATE, MASSACHUSETTS

## 453 CHIEF JUSTICE CUSHING HIGHWAY

### STEARNS MEADOW DRINKING WATER TREATMENT PLANT

SITE PLAN APPROVAL  
REVISION 2 - NOVEMBER 15, 2023



PROJECT LOCATION MAP

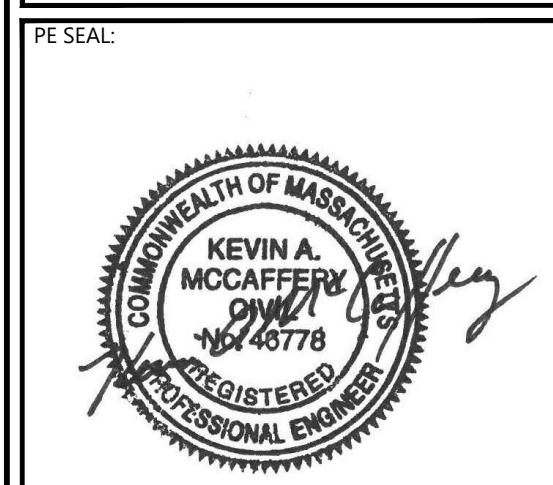
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SHEET TITLE	SHEET DESCRIPTION
	EXISTING CONDITIONS PLAN BY FELDMAN LAND SURVEYORS
	APPROVAL NOT REQUIRED PLAN BY FELDMAN LAND SURVEYORS
EL-2-101	ELECTRICAL LIGHTING PLAN
V-101	VEHICLE TURNING PLAN (WB-50)
V-102	VEHICLE TURNING PLAN (FIRE TRUCK)



SITE LOCATION MAP

SOURCE: USGS TOPO QUADRANGLE  
SCALE: 1" = 2000'



ISSUE FOR PERMIT

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

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

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

DRAWING TITLE:  
**COVER SHEET**

DRAWING NO:  
**G-000**

### GENERAL NOTES

- SURFACE EXISTING CONDITIONS DEPICTED HEREIN, ARE BASED ON A SURVEY PERFORMED BY FELDMAN LAND SURVEYORS, 152 HAMPDEN STREET, BOSTON, MA 02119, ENTITLED "EXISTING CONDITIONS PLAN, 443-461 CHIEF JUSTICE CUSHING HIGHWAY, SCITUATE, MA", DATED 3/14/2022.
- BENCH MARK USED:  
ELEVATIONS WERE OBTAINED BY GPS OBSERVATIONS ON DECEMBER 8, 2021.  
TEMPORARY BENCH MARKS SET:  
TBM-JC-1: X-CUT ON LEFT FRONT BOLT OVER OUTLET OF HYDRANT ON NORTH OF DOCTORS HILL ROAD, 1.8' ABOVE GRADE. ELEVATION = 106.87  
TBM-JC-2: X-CUT ON LEFT FRONT BOLT OVER OUTLET OF HYDRANT IN FRONT OF 439 CUSHING HIGHWAY.
- THE HORIZONTAL DATUM DEPICTED ON THE MAPS HEREON IS BASED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MANLAND ZONE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983. THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- WETLAND DELINEATION WAS PREPARED BY LEC ENVIRONMENTAL CONSULTANTS, INC. IN 2022 AND FIELD SURVEYED BY FELDMAN LAND SURVEYORS.
- COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES AND THE TOWN. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT "DIG SAFE", PRIOR TO EXCAVATION, CALL, TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
- ALL DISTURBANCES WITHIN PUBLIC ROADWAYS SHALL BE RESTORED TO SPECIFIED MASSDOT REQUIREMENTS, SEE MASSDOT CONSTRUCTION ACCESS PERMIT. RESTORE ALL OTHER NON-LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, ETC.) UNLESS NOTED OTHERWISE ON THE PLANS. RESTORATION OF PAVED SURFACES, GRAVEL SURFACES, AND DRIVEWAYS, DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER.
- PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A LICENSED LAND SURVEYOR ACCEPTABLE TO THE TOWN.
- ALL TREES NOT NOTED TO BE REMOVED SHALL BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF ANY TREES NOT IDENTIFIED FOR REMOVAL ARE FOUND TO BE IN CONFLICT WITH THE WORK.
- THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN TO THE TOWN ENGINEER AND MASSDOT BEFORE BEGINNING CONSTRUCTION. THE TRAFFIC CONTROL PLAN SHALL PROVIDE FOR SAFE MOVEMENT OF BOTH VEHICLES AND PEDESTRIANS DURING CONSTRUCTION ACTIVITIES. THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE SUBJECT TO APPROVAL BY THE TOWN ENGINEER AND MASSDOT, WHO MAY ATACH SPECIAL CONDITIONS TO, OR REQUIRE MODIFICATIONS OF, THE TRAFFIC CONTROL PLAN.
- DO NOT PARK, ENTER, IMPEDE ACCESS TO, OR STORE EQUIPMENT BEYOND LIMIT OF WORK, UNLESS PERMISSION HAS BEEN GRANTED IN WRITING BY THE ENGINEER.
- COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LANDOWNERS AT LEAST TWO DAYS (48 HOURS) PRIOR TO DISRUPTION. ALL UTILITY COORDINATION IS RESPONSIBILITY OF CONTRACTOR.
- RESTRICT ACCESS TO SITE THROUGH THE USE OF APPROPRIATE SIGNAGE, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. INSTALL ORANGE CONSTRUCTION FENCING AROUND ALL WORK ZONES AT THE END OF EVERY DAY. SITE SAFETY IS THE RESPONSIBILITY OF CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
- ALL DISTURBANCE TO THE SITE SHALL BE WITHIN THE DEFINED LIMIT OF WORK. IF A CONFLICT OR SITE CONDITION REQUIRES THAT THE LIMIT OF WORK BE CHANGED, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER.
- STAGING AREAS, INCLUDING STOCKPILING OF MATERIALS, SHALL OCCUR FULLY WITHIN THE LIMITS OF WORK, AND BE LOCATED AS FAR AWAY FROM THE WETLAND RESOURCE AREAS AS POSSIBLE.
- IMPACT WITHIN THE WETLAND BUFFER ZONES SHALL BE MINIMIZED. IF WORK SHALL RESULT IN ADDITIONAL IMPACT WITHIN THE BUFFER ZONE BEYOND WHAT IS SHOWN ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE DISTURBING THE AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EROSION AND SEDIMENTATION CONTROL IN ACCORDANCE WITH THE LATEST STATE OF MASSACHUSETTS EROSION & SEDIMENT CONTROL GUIDELINES AND DESIGN DRAWINGS. RECOMMENDED EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING CONSTRUCTION WITH APPROPRIATE EROSION CONTROL. IF ANY EARTHWORK IS TO BE COMPLETED PRIOR TO INSTALLATION OF SHEET PILE WALL, SEDIMENTATION BARRIER SHALL BE PLACED IN OR NEAR THE LOCATION OF THE SHEET PILE WALL UNTIL IT IS INSTALLED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL EROSION AND SEDIMENT CONTROL, INCLUDING STABILIZED CONSTRUCTION EXITS, WITHIN THE PROJECT AREA AS NECESSARY. ANY ACCUMULATION OF SEDIMENT IN STRUCTURES OR ON THE GROUND DUE TO THE CONSTRUCTION PROJECT SHALL BE REMOVED AND DISPOSED OF IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL THE RESTORATION IS COMPLETE AND UPON APPROVAL FOR REMOVAL BY THE SCITUATE CONSERVATION COMMISSION.
- ALL DISTURBED LAWN AREAS WITHIN THE LIMIT OF WORK SHALL BE RESTORED WITH 6 INCHES OF LOAM AND SEED UNLESS OTHERWISE NOTED ON PLANS.
- TREES AND VEGETATION LOCATED WITHIN THE LIMIT OF WORK, AND ON THE LANDWARD SIDE OF DELINEATED BORDERING VEGETATED WETLANDS OR BANK MAY BE REMOVED AS NECESSARY TO COMPLETE THE WORK UNLESS OTHERWISE NOTED.
- ADDITIONAL SITE FEATURES (SIGNS, MAILBOXES, LIGHTS, WALLS, ETC.) SHALL BE REMOVED AS REQUIRED TO COMPLETE THE WORK. FOLLOWING COMPLETION OF WORK, SITE FEATURES SHALL BE RE-INSTALLED PER THE DIRECTION OF THE OWNER. ANY SITE FEATURED OUTSIDE OF LIMIT OF WORK SHALL BE PROTECTED, AND IF DISTURBED, SHALL BE REPLACED AT NO ADDITIONAL COST TO OWNER.
- PRIOR TO THE COMMENCEMENT OF ANY ACTIVITIES ON THIS SITE THERE MUST BE A PRE-CONSTRUCTION MEETING WITH THE TOWN REPRESENTATIVE. THE TOWN REPRESENTATIVE SHALL BE NOTIFIED IN WRITING WHEN EROSION CONTROL AND LIMIT OF WORK FLAGGING HAS BEEN INSTALLED AND IS READY TO BE INSPECTED BY THE TOWN REPRESENTATIVE.
- ALL DEBRIS, FILL, AND EXCAVATED MATERIALS SHALL BE STOCKPILED IN A LOCATION FAR ENOUGH AWAY FROM THE WETLAND RESOURCE AREA TO PREVENT SEDIMENT FROM ENTERING WETLAND RESOURCE AREA.
- THE CONTRACTOR SHALL MANAGE AND LEGALLY DISPOSE OFF-SITE ALL EXCESS EXCAVATED MATERIALS, INCLUDING, BUT NOT LIMITED TO, SOIL, ROCK, BOULDERS, WATER, DEMOLITION WASTE, AND DEBRIS THAT CANNOT BE USED ON-SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL LINES, GRADES AND OTHER SURVEY CONTROL TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS.
- ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL AND STORMWATER POLLUTION PREVENTION SYSTEMS IN COMPLIANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS STORMWATER MANUAL AND EROSION AND SEDIMENT CONTROLS AND SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLAN DURING CONSTRUCTION.
- ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
- SEE DETAILS FOR PAVEMENT MARKINGS, SIGNS AND SIGN POSTS.

### EROSION AND SEDIMENTATION CONTROL NOTES

THESE MEASURES ARE INTENDED TO PROVIDE GENERAL REQUIREMENTS FOR EROSION AND SEDIMENTATION CONTROL. A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE ISSUED PRIOR TO CONSTRUCTION AND MAY REQUIRE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES. CONTRACTOR SHALL FOLLOW ALL MEASURES REQUIRED FOR THE PROJECT.

THE PURPOSE OF EROSION CONTROLS IS TO PREVENT SEDIMENT FROM MOVING ONTO, AROUND, OR OFF OF THE CONSTRUCTION SITE. PROPERLY INSTALLED AND MAINTAINED EROSION CONTROLS ARE THE PRIMARY DEFENSE AGAINST SEDIMENT POLLUTION. SEDIMENTATION CONTROLS ARE A SECOND LINE OF DEFENSE AGAINST MOVING SEDIMENT. THE PURPOSE IS TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE AND ENTERING ENVIRONMENTALLY SENSITIVE AREAS. RUNOFF CONTROLS ARE USED TO SLOW THE VELOCITY OF CONCENTRATED WATER FLOWS. BY INTERCEPTING AND DIVERTING STORMWATER RUNOFF TO A STABILIZED OUTLET OR TREATMENT BMP, EROSION AND SEDIMENTATION ARE REDUCED. THIS SECTION DESCRIBES THE SET OF MEASURES THAT WILL BE INSTALLED BEFORE AND DURING THE CONSTRUCTION PROJECT TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT WILL OCCUR AT THE SITE. SUCH MEASURES MAY INCLUDE: PERIMETER CONTROLS, STOCK PILE COVERING, STORM DRAIN INLET PROTECTION, CHECK DAMS, AND TEMPORARY SEEDING. PLEASE NOTE: THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN THREE (3) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

#### 1. MINIMIZE DISTURBED AREAS AND PROTECT NATURAL FEATURES AND SOIL

AS FAR AS IS PRACTICABLE, EXISTING VEGETATION SHALL BE PROTECTED AND LEFT IN PLACE, IN ACCORDANCE WITH THE CLEARING LIMITS SHOWN ON THE APPROVED PLANS. PRIOR TO ANY LAND DISTURBANCE ACTIVITIES COMMENCING ON THE SITE, THE CONTRACTOR SHALL PHYSICALLY MARK LIMITS OF WORK (LOW) ON THE SITE AND ANY AREAS TO BE PROTECTED WITHIN THE SITE, SO THAT WORKERS CAN CLEARLY IDENTIFY THE AREAS TO BE PROTECTED. THE APPENDED PROJECT DRAWINGS IDENTIFY THE LIMIT OF WORK ALONG WITH AREAS AND OBJECTS TO BE PROTECTED.

#### 2. PHASE CONSTRUCTION ACTIVITY

PROPER SEQUENCING OF CONSTRUCTION ACTIVITIES IS ESSENTIAL TO MAXIMIZE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES. CONSTRUCTION SEQUENCING AND TIMING OF CONSTRUCTION ACTIVITIES WILL INCLUDE:

- INSTALLATION OF ALL EROSION AND SEDIMENT CONTROLS THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE NPDES SWPPP FOR THIS PROJECT, THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, AND THE MASSACHUSETTS STORMWATER HANDBOOK. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION AND SEDIMENT CONTROLS, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE. ROUTINE INSPECTION AND MAINTENANCE AND/OR MODIFICATION OF EROSION AND SEDIMENT CONTROLS WHILE EARTHWORK IS BEING DONE IS REQUIRED.
- UPON COMMENCEMENT OF SITE CONSTRUCTION ACTIVITIES, THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN THREE (3) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.
- FINAL STABILIZATION OF ANY DISTURBED AREAS AFTER EARTHWORK HAS BEEN COMPLETED.

#### 3. PHASED CLEARING/GRUBBING

ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 3-DAYS OF DISTURBANCE WILL BE CLEARED/GRUBBED AT ANY ONE TIME. IT IS NOT ACCEPTABLE TO CLEAR AND GRUB THE ENTIRE CONSTRUCTION SITE IF PORTIONS WILL NOT BE ACTIVE WITHIN THE 3- DAY TIME-FRAME. PROPER PHASING OF CLEARING AND GRUBBING ACTIVITIES SHALL INCLUDE TEMPORARY STABILIZATION TECHNIQUES FOR AREAS CLEARED AND GRUBBED THAT WILL NOT BE ACTIVE WITHIN THE 3 DAY TIME-FRAME. UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15TH OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE SITE OPERATOR OR DESIGNATED INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE REESTABLISHED WITHIN 5 WORKING DAYS. CLEARING/GRUBBING SHALL NOT TAKE PLACE DURING A RAIN EVENT IF EROSION IS LIKELY TO OCCUR; NOR SHALL IT OCCUR IF A RAIN EVENT IS FORECASTED AND APPROPRIATE EROSION CONTROLS CANNOT BE INSTALLED PRIOR TO THE STORM. AFTER CLEARING, AND BY THE END OF EACH DAY'S GRUBBING OPERATION, THE SITE OPERATOR SHALL INSTALL EROSION CONTROL MEASURES THAT ARE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SUCH EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.

#### 4. MONITORING WEATHER CONDITIONS

CARE SHALL BE TAKEN TO AVOID HAVING UNSTABILIZED AREAS EXPOSED DURING PRECIPITATION EVENTS. WEATHER FORECASTS SHALL BE ROUTINELY CHECKED, AND IN THE CASE OF AN EXPECTED PRECIPITATION EVENT OF OVER 0.25-INCHES OVER A 24-HOUR PERIOD, ALL BMPs SHALL BE INSPECTED, AND MAINTAINED AS NECESSARY, PRIOR TO THE WEATHER EVENT. DISTURBED SOIL AREAS, MATERIAL STORAGE, AREAS EXPOSED TO PRECIPITATION, AND IN-PLACE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND THE ENGINEER A MINIMUM OF ONCE EVERY 7 DAYS, WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL, AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL OR SNOWMELT. DEFICIENCIES IN THE EROSION CONTROL MEASURES IDENTIFIED BY THE INSPECTIONS SHALL BE CORRECTED WITHIN THREE (3) CALENDAR DAYS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE WEATHER GAUGE STATION AND WEBSITE THAT SHALL BE UTILIZED TO MONITOR WEATHER CONDITIONS ON THE CONSTRUCTION SITE IS AS FOLLOWS: THE CONTRACTOR CAN MONITOR THE WEATHER CONDITIONS ON WWW.WUNDERGROUND.COM, WWW.WEATHER.COM, OR SIMILAR WEATHER INFORMATION SOURCE. THE LOGAN INTERNATIONAL AIRPORT WEATHER GAUGE OR SIMILAR REPRESENTATIVE WEATHER GAUGE SHALL BE THE WEATHER GAUGE UTILIZED FOR THIS PROJECT.

#### 5. INITIATING STABILIZATION PROCEDURES

UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROLS THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN THREE (3) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

#### 6. CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT

STRUCTURAL BMPs ARE USED TO DIVERT FLOWS FROM EXPOSED SOILS, RETAIN OR DETAIN FLOWS, OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE.

BMPs SHALL BE INSTALLED AS DEPICTED ON THE APPROVED PLAN SET AND IN

ACCORDANCE WITH MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES SUCH AS DIVERSION CHANNELS, SEDIMENTATION OR FILTRATION SYSTEMS, BERMS, STAKED HAY BALES, SEEDING, MULCHING OR OTHER SPECIAL SURFACE TREATMENTS AS ARE REQUIRED TO PREVENT SILTING AND CLOGGING OF STREAMS, RIVERS, IMPOUNDMENTS, LAKES, ETC. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE IN AN AREA PRIOR TO ANY CONSTRUCTION ACTIVITY IN THAT AREA.

#### 7. STABILIZE SOILS

DISTURBED AREAS THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN THREE (3) DAYS MUST BE STABILIZED USING THE BMPs DEPICTED ON THE APPROVED SWPPP PLAN SET AND IN ACCORDANCE WITH APPLICABLE MEASURES SPECIFIED IN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SOILS THROUGH SEEDING, HYDROSEEDING, MULCHING AND DUST CONTROL THROUGH USE OF WATER. FOR TURFS AND GRASSES, STABILIZE FINAL GRADED AREAS WITHIN SEVEN DAYS OF GRADE PREPARATION BY PREPARING TOPSOIL AND THEN APPLYING SEED AND MULCH. FOR DUST CONTROL, STABILIZE EXPOSED SOILS DURING DRY WEATHER BY APPLYING WATER SITE-WIDE.

#### 8. PROTECT SLOPES

SLOPES THAT WILL HAVE CONCENTRATED STORMWATER FLOW MUST BE PROTECTED USING THE BMPs DEPICTED ON THE APPROVED SWPPP PLAN SET AND IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. IF THE SLOPE STABILIZATION BMPs FAIL AND EROSION OCCURS, THEN ALTERNATIVE CONTROL MEASURES MAY BE USED UPON APPROVAL OF THE SITE OWNER, WHICH MAY INCLUDE COMPOST FILTER SOCKS, FIBER ROLLS, GRAVEL BAG BERMS, EROSION CONTROL MATS/BLANKETS, AND TEMPORARY VEGETATIVE COVER.

#### 9. PROTECT STORM DRAIN INLETS

STORM DRAIN INLET PROTECTION MEASURES PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. THESE MEASURES ARE USUALLY TEMPORARY AND ARE IMPLEMENTED BEFORE A SITE IS DISTURBED. ALL STORMWATER INLETS AND/OR CATCH BASINS THAT ARE OPERATIONAL DURING CONSTRUCTION AND MAY RECEIVE SEDIMENT-LADEN STORMWATER FLOW FROM THE CONSTRUCTION SITE MUST BE PROTECTED USING ANY OF THE BMPs OUTLINED IN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK.

POSSIBLE CONTROL MEASURES THAT MAY BE USED INCLUDE COMPOST FILTER SOCKS, FIBER ROLLS, GRAVEL BAG BERMS, OR CATCH BASIN INSERTS. (PLEASE NOTE: HAYBALE/SILT FENCE PROTECTION MEASURES DO NOT WORK ON PAVED SURFACES). THE CONTRACTOR SHALL PROTECT THE STORM DRAIN INLETS WITH BALED HAY CATCH BASIN INLET PROTECTION DETAIL DEPICTED IN THE CONTRACT DRAWINGS. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE IN AN AREA PRIOR TO ANY CONSTRUCTION ACTIVITY IN THAT AREA.

#### 10. ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS

PERIMETER CONTROLS SHALL BE INSTALLED, AND MAINTAINED, AS DEPICTED ON THE APPROVED SWPPP PLAN SET AND IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK.

IF THE BALED HAY AND/OR SILT FENCE EROSION CHECKS FAIL TO CONTAIN THE SEDIMENT ON-SITE, THEN ALTERNATIVE CONTROL MEASURES MAY BE SUBSTITUTED WITH APPROVAL OF THE SITE OWNER. SUCH MEASURES MAY INCLUDE (BUT ARE NOT LIMITED TO) COMPOST FILTER SOCKS OR STRAW WATTLES (FIBER ROLLS). THE CONTRACTOR SHALL ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS AT LEAST 48 HOURS BEFORE SITE CLEARING AND SOIL DISTURBANCE. THE SEDIMENT CONTROLS SHALL BE DOWNHILL OF DISTURBED AREAS IN ACCORDANCE WITH THE DETAILS DEPICTED IN THE DRAWINGS. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE IN AN AREA PRIOR TO ANY CONSTRUCTION ACTIVITY IN THAT AREA.

#### 11. RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES

SEDIMENT TRAPS, BASINS, AND BARRIERS ARE USED TO RETAIN SEDIMENT ON THE SITE TO PROTECT STREAMS, LAKES, DRAINAGE SYSTEMS, AND ADJACENT PROPERTY. THESE DEVICES ARE USED AT THE OUTLETS OF CHANNELS, DIVERSIONS, AND OTHER RUNOFF CONVEYANCE MEASURES TO ALLOW SEDIMENT-FILLED WATER TO POOL AND THE SEDIMENT TO SETTLE. THESE MEASURES ARE OFTEN USED AS THE LAST LINE OF DEFENSE TO STOP SEDIMENT FROM LEAVING THE SITE. DISCHARGE OF SEDIMENT-LADEN WATER INTO STORM DRAINS, STREAMS, RIVERS, LAKES OR WETLANDS PRIOR TO SEDIMENT REMOVAL IS PROHIBITED. A TEMPORARY SEDIMENT TRAP OR BASIN MAY BE INSTALLED AND MAINTAINED AS NECESSARY WITHIN THE SITE BOUNDARIES AND IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK.

### GRADING AND DRAINAGE NOTES:

- PROPOSED DRAINAGE STRUCTURES SHALL BE SET TO CORRESPOND TO THE PROPOSED ELEVATIONS SHOWN ON THE DRAWINGS. ANY CONFLICTS AND OR DISCREPANCIES AND SHALL NOTIFY THE ENGINEER IN WRITING.
- UNSATURABLE FILL AND BACKFILL MATERIALS ARE MATERIALS CONTAINING EXCESSIVE AMOUNT OF WATER, PLASTIC, CLAY, SILT, VEGETATION, ORGANIC MATTER, DEBRIS, PAVEMENT, STONES OR BOULDERS OVER 6 INCHES IN GREATEST DIMENSION, FROZEN MATERIAL, AND MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, WILL NOT PROVIDE A SUITABLE FOUNDATION OR SUBGRADE.
- SUITABLE SOIL SHALL BE PLACED IN LAYERS TO THE REQUIRED ELEVATIONS AS SHOWN ON THE DRAWINGS. FILL, BACKFILL AND COMPACT TO PRODUCE MINIMUM SUBSEQUENT SETTLEMENT OF THE MATERIAL AND PROVIDE ADEQUATE SUPPORT FOR THE SURFACE TREATMENT OR STRUCTURE TO BE PLACED ON THE MATERIAL. PLACE MATERIAL IN APPROXIMATELY HORIZONTAL LAYERS OF BEGINNING AT LOWEST AREA TO BE FILLED. DO NOT IMPAIR DRAINAGE. DO NOT USE ON-SITE TOPSOIL AS FILL MATERIAL.
- FOR GROUND SURFACE PREPARATION, REMOVE VEGETATION, DEBRIS, UNSUITABLE SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILL. REMOVE MATERIAL TO THE FULL EXTENT OF ROOT PENETRATION. PROOF-ROLL EXISTING GROUND SURFACE PRIOR TO PLACEMENT OF FILL TO PROVIDE A DENSE, STABLE BASE FOR THE FIRST LIFTS OF THE FILL.
- PRIOR TO THE START OF CONSTRUCTION, HAND DIG TEST PITS TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY LOCATION, PIPE MATERIAL, AND ELEVATION OF ALL EXISTING UTILITIES AT PROPOSED UTILITY CROSSINGS, AND ADVISE THE ENGINEER IN WRITING OF ANY DISCREPANCIES.
- ALL PROPOSED UTILITIES AND THEIR CONNECTIONS, DISCONNECTION AND RELOCATION OF EXISTING UTILITIES SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER HAVING JURISDICTION. ANY COORDINATION WITH THE MUNICIPALITY AND/OR UTILITY OWNER, PERMITS, FEES, OR APPROVALS REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EROSION CONTROL BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING ANY WORK ON THE SITE. KEEP ALL STREETS FREE OF DUST, MUD, AND DEBRIS. STREETS AND WALKWAYS SHALL BE SWEEP REGULARLY, AND TEMPORARY CONSTRUCTION ENTRANCE-EXITS SHALL BE UTILIZED DURING CONSTRUCTION.
- MAINTAIN VEHICULAR AND PEDESTRIAN FLOW ALONG ROUTE 3A AT ALL TIMES DURING CONSTRUCTION. COORDINATE ALL TRAFFIC CONTROL AS WELL AS ANY SIDEWALK OR LANE CLOSURES WITH THE TOWN AND MASSDOT AS REQUIRED. OBTAIN WRITTEN APPROVAL FROM THE OWNER IN ADVANCE FOR ANY PROPOSED ROAD CLOSURES AS REQUIRED TO COMPLETE THE WORK. COORDINATE AND PROVIDE POLICE DETAILS AS REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION AND BUILDING PERMITS. PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CONSTRUCTION.

### LEGEND


DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE	---	---
FLOOD PLAIN & WATERSHED PROTECTION DISTRICT	-.-.-	-.-.-
BANK BOUNDARY OF POND	---	---
WETLAND LINE	---	---
WETLAND BUFFER LINE	---	---
MossDOT BASE LINE	---	---
CONTOUR (MAJOR)	80	80
CONTOUR (MINOR)	81	81
STORM DRAIN	SD	SD
SANITARY SEWER	S	S
FORCE MAIN LINE	FM	FM
WATER LINE	W	W
ELECTRIC LINE	E	E
OVERHEAD ELECTRIC	OE	OE
EDGE OF VEGETATION	---v---	---v---
CLEANOUT	o	o
STORM DRAIN MANHOLE	⊕	⊕
CATCH BASIN	⊗	⊗
INLET PROTECTION	⊖	⊖
UTILITY POLE	⊕	⊕
SIGN	+	+
SPOT GRADE	x110.60	+93.83
STONE WALL	---s---	---s---
EDGE OF PAVEMENT	---	---
CURB	---	---
BUILDING	---	---
BITUMINOUS CONCRETE	---	---
GRAVEL/RIP RAP	---	---
RETAINING WALL	---	---
CHAIN LINK FENCE	X X X	X X X
LIMIT OF WORK	LW	LW
SILT SOCK	---	---
DIVERSION DITCH	---	---
SOIL STOCKPILE	---	---
SNOW STORAGE	---	---
ROOF DRAIN	---	---
UNDERDRAIN	UD	UD
HYDRANT	⊕	⊕
LIGHTPOST	⊕	⊕
DOWNSPOUT	⊕	⊕
ROCK CHECK DAM	---	---



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PE SEAL:



KEVIN A. MCCAFFERY  
REGISTERED PROFESSIONAL ENGINEER  
49748778

**ISSUE FOR PERMIT**

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

**STEARNS MEADOW DRINKING WATER TREATMENT PLANT**

REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK/KM  
FILENAME: 023368102-G-001.dwg

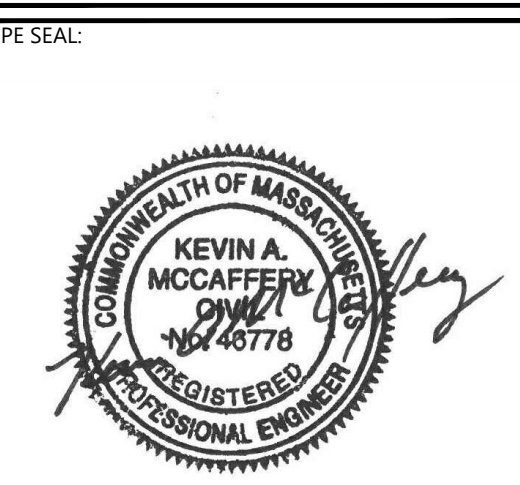
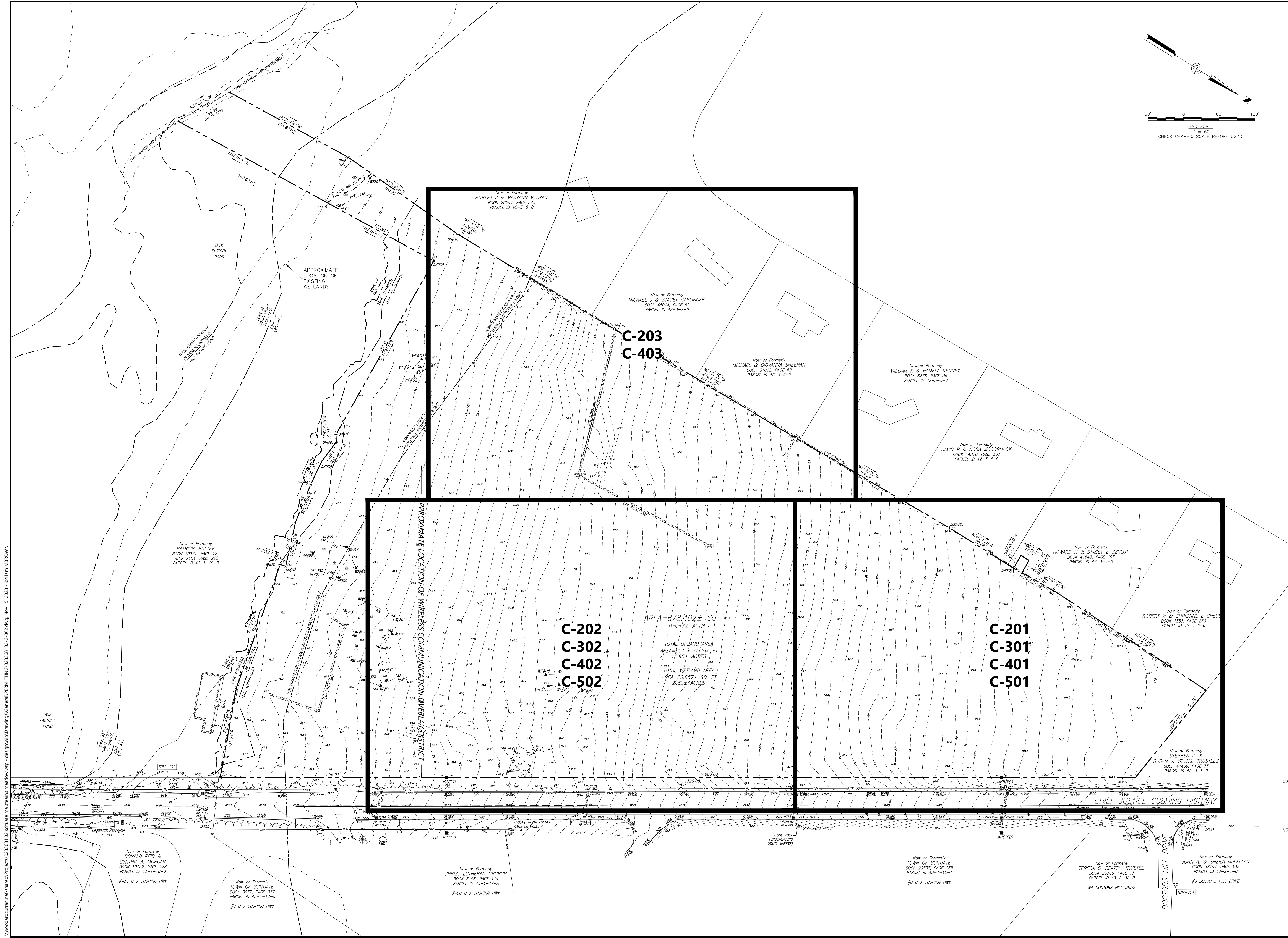
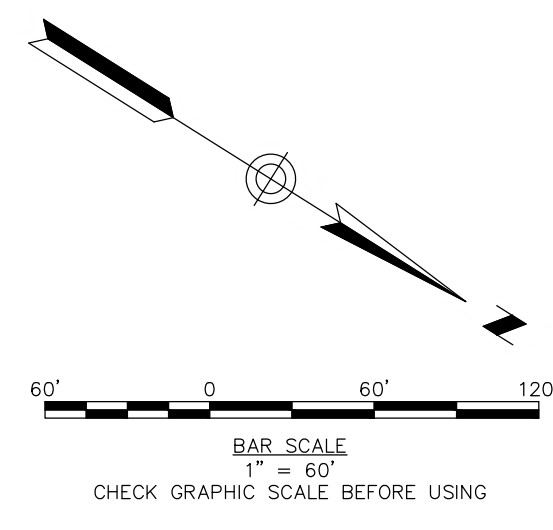
DRAWING TITLE:  
**GENERAL NOTES, ABBREVIATIONS & LEGENDS**

DRAWING NO:  
**G-001**



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

STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION
1	11/15/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
 DATE: AUGUST 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JC  
 DRAWN BY: MB  
 CHECKED BY: SK/KM  
 FILENAME: 023368102-G-002.dwg

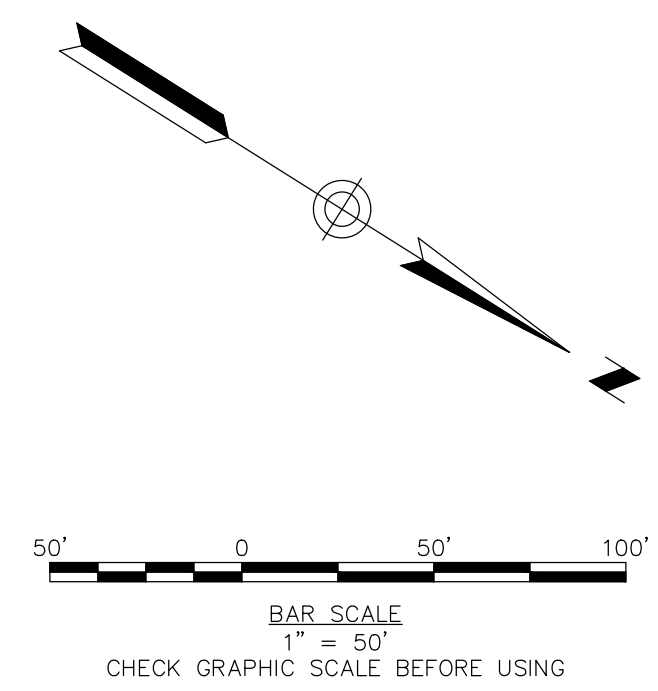
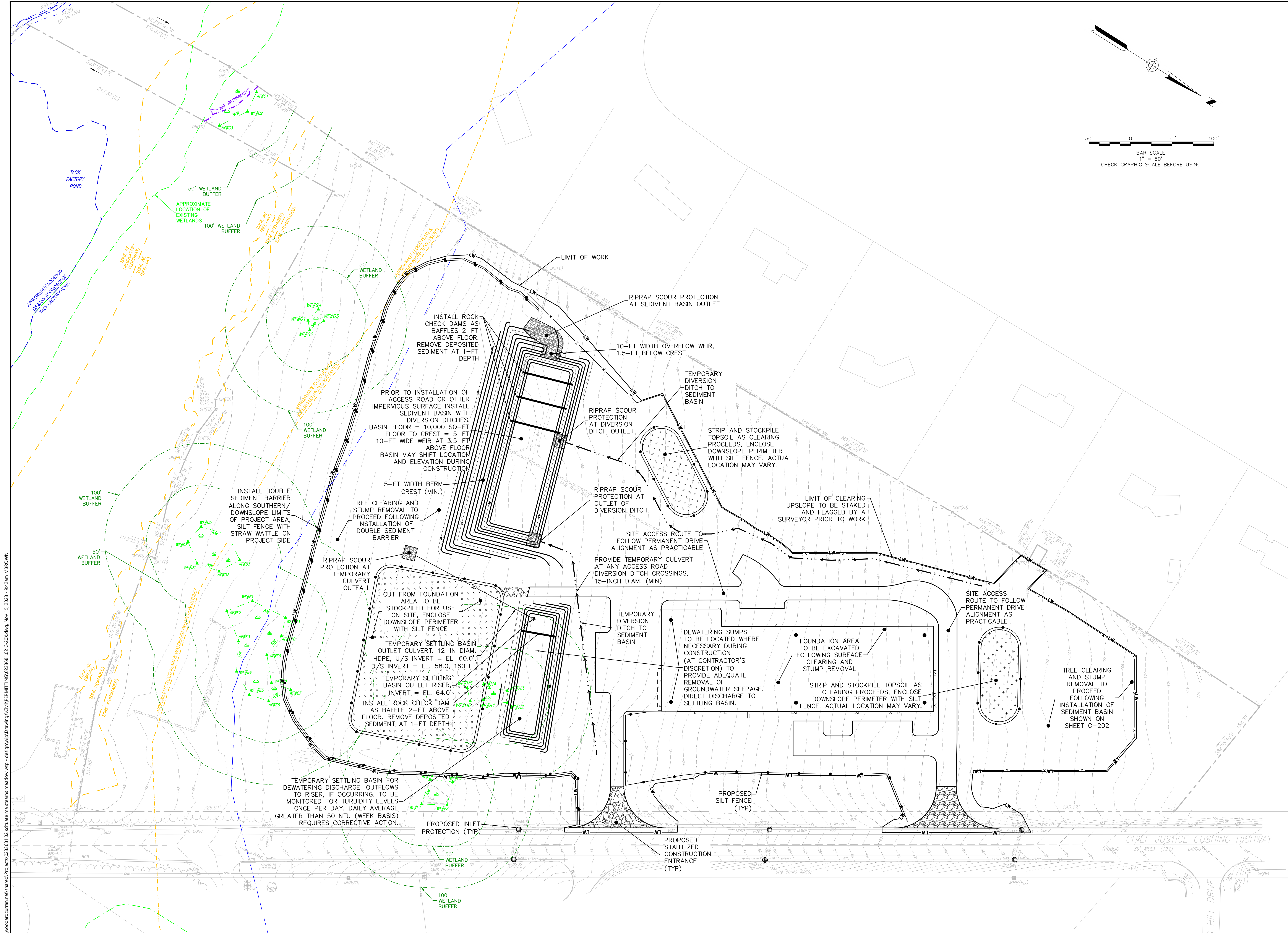
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**KEY PLAN**

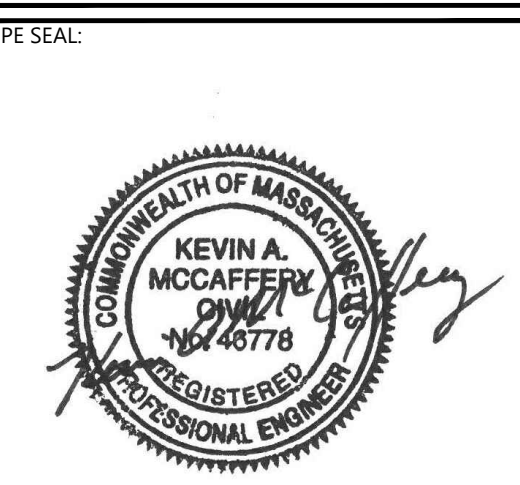
DRAWING NO:

**G-002**

WoodardCurran.net\shared\Projects\023368102-Scituate ma stearns meadow vwp - design\wp\Drawings\General\PERMITTING\023368102-G-002.dwg, Nov. 15, 2023 - 9:41am MBROWN



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CLIENT INFO:  
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 453 CHIEF JUSTICE  
 CUSHING HIGHWAY  
  
 STEARNS MEADOW  
 DRINKING WATER  
 TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION
1	11/15/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
 DATE: AUGUST 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JC  
 DRAWN BY: MB  
 CHECKED BY: SK/KM  
 FILENAME: 0233681.02 C-20X.dwg

**OVERALL SEDIMENT & EROSION CONTROL PLAN**

DRAWING NO:  
**C-200**

WoodardCurran.net\shared\Projects\0233681.02 Stearns Meadow vwp - design\wp\Drawings\Civil\PERMITTING\0233681.02 C-20X.dwg, Nov. 15, 2023 - 9:42am MBROVIN

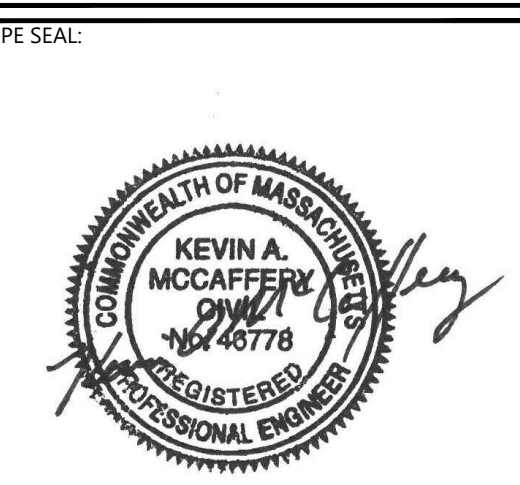
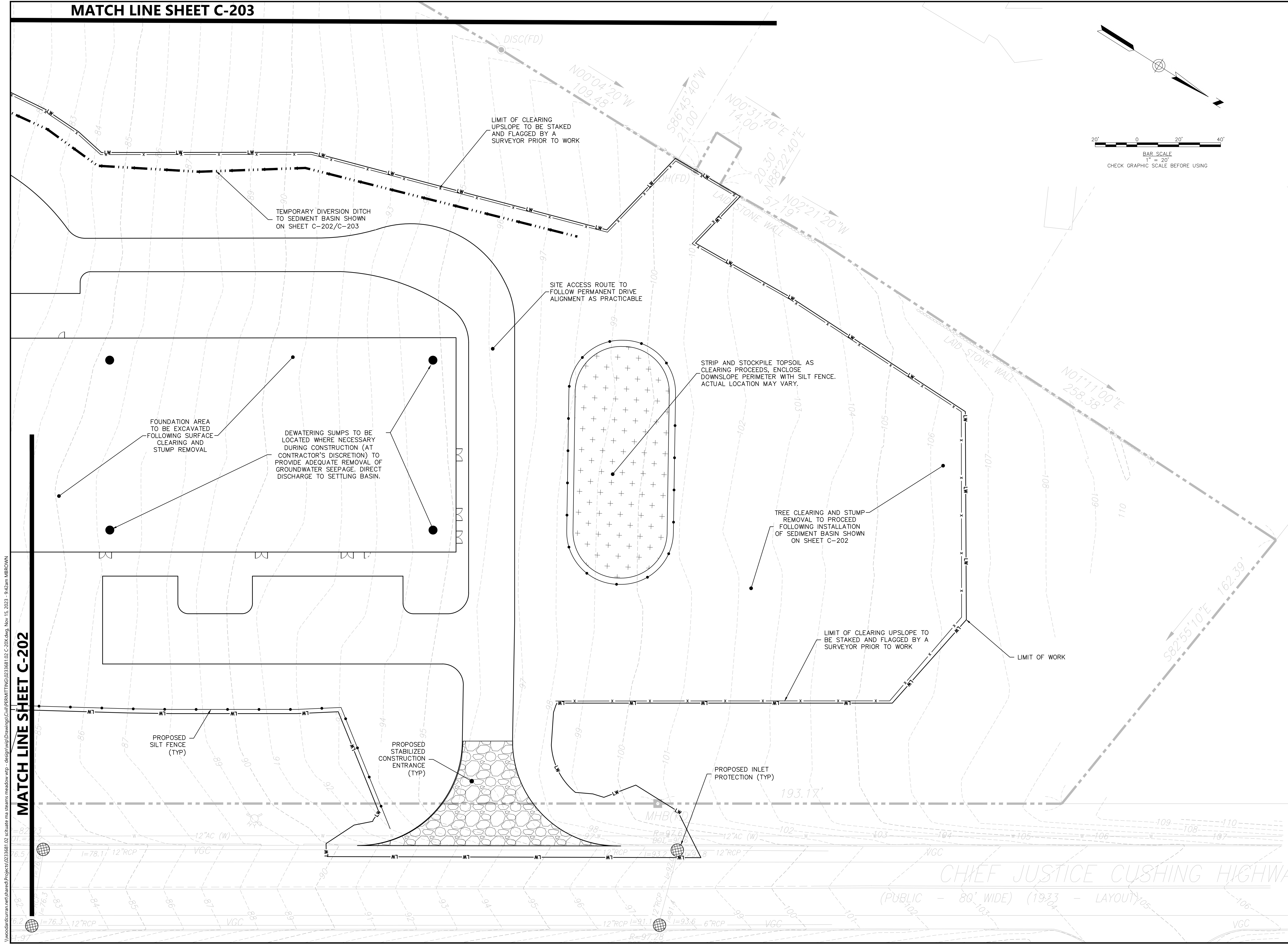
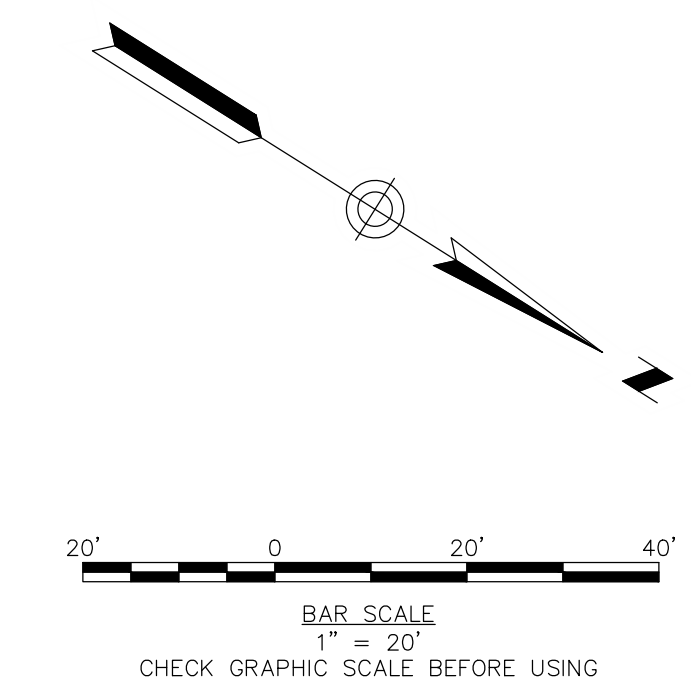
**MATCH LINE SHEET C-203**



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

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
 DATE: AUGUST 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JC  
 DRAWN BY: MB  
 CHECKED BY: SK/KM  
 FILENAME: 0233681.02 C-20X.dwg

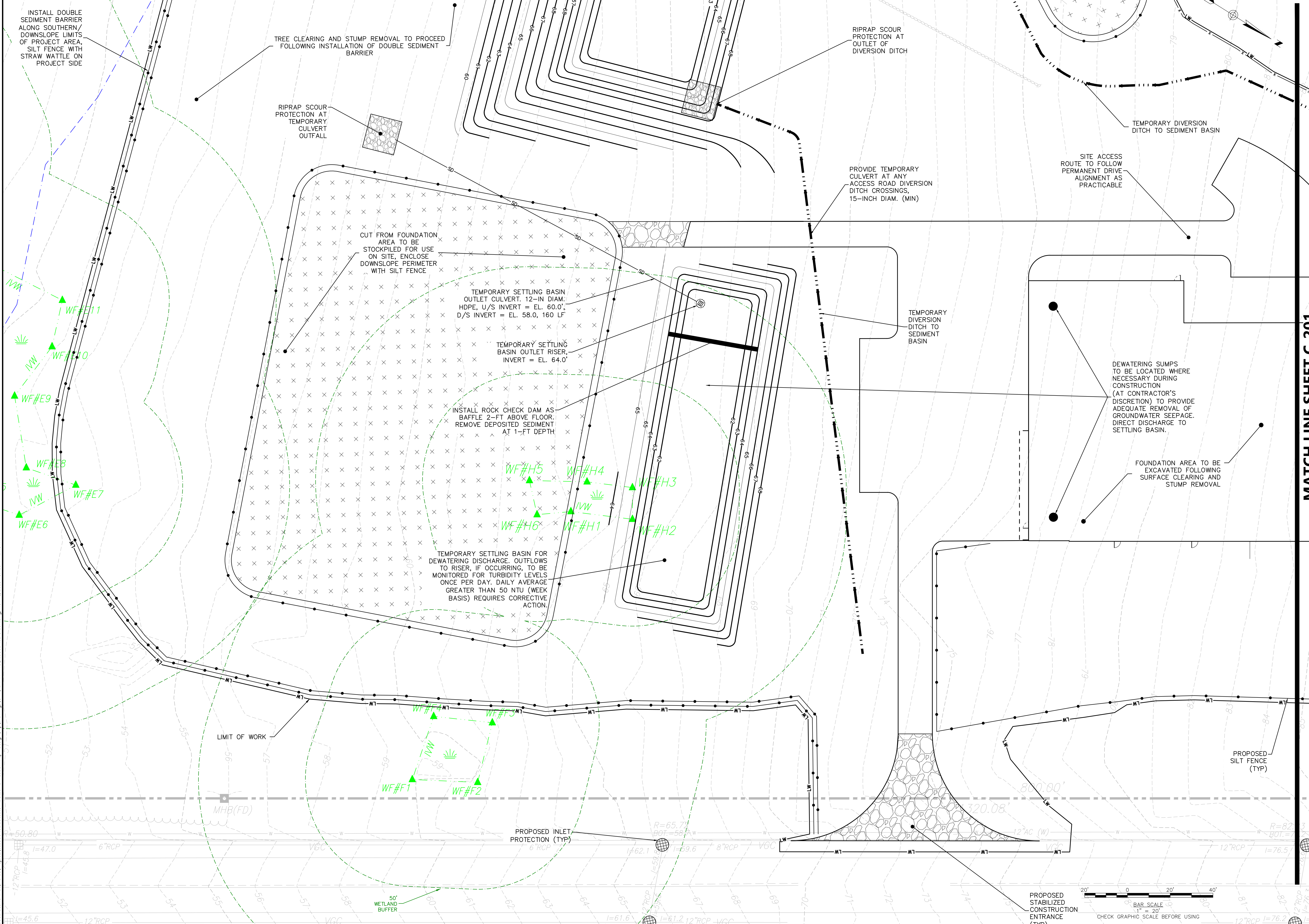
DRAWING TITLE:

**EROSION & SEDIMENT CONTROL PLAN**

DRAWING NO:  
**C-201**

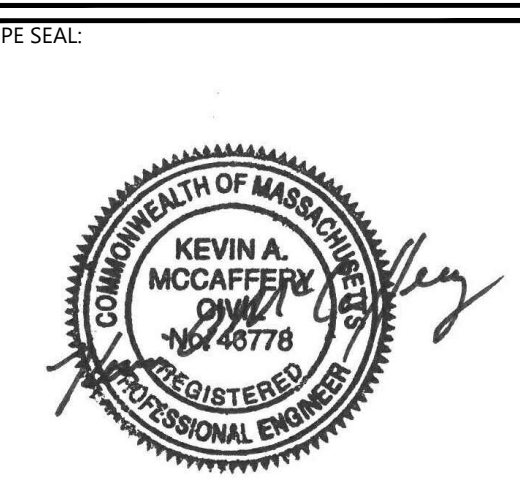
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**ISSUE FOR PERMIT**

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

REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
 DATE: AUGUST 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JC  
 DRAWN BY: MB  
 CHECKED BY: SK/KM  
 FILENAME: 0233681.02 C-20X.dwg

**EROSION & SEDIMENT CONTROL PLAN**

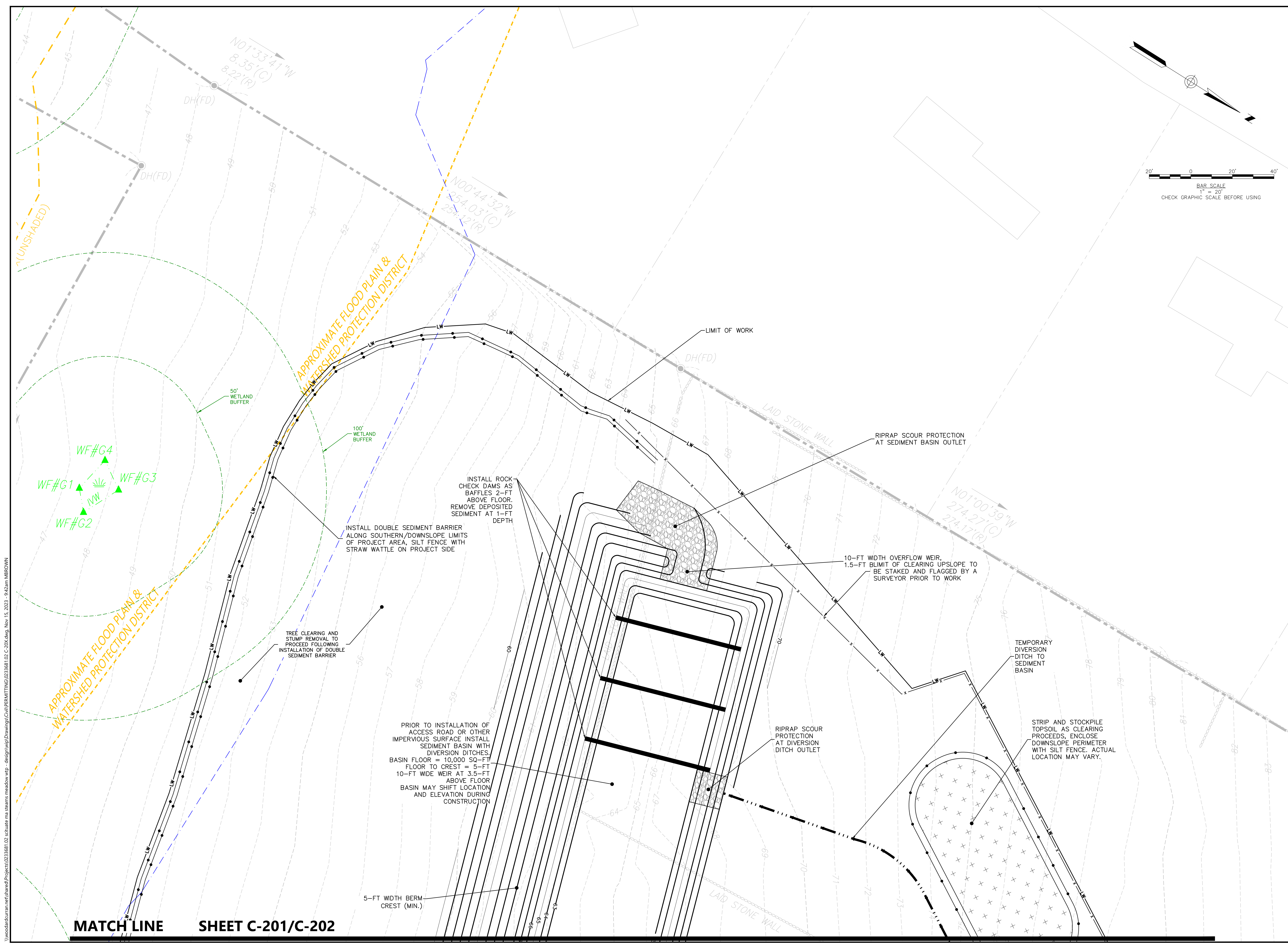
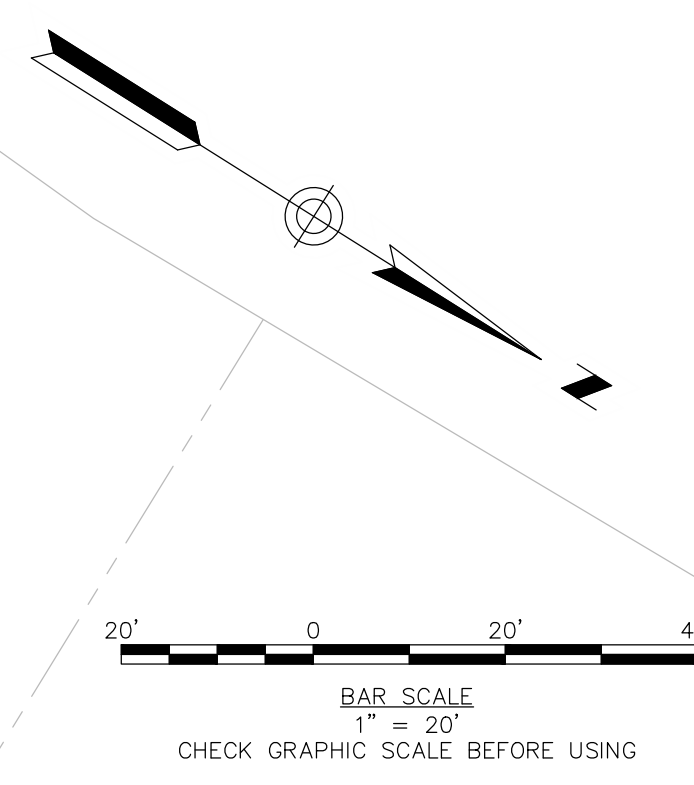
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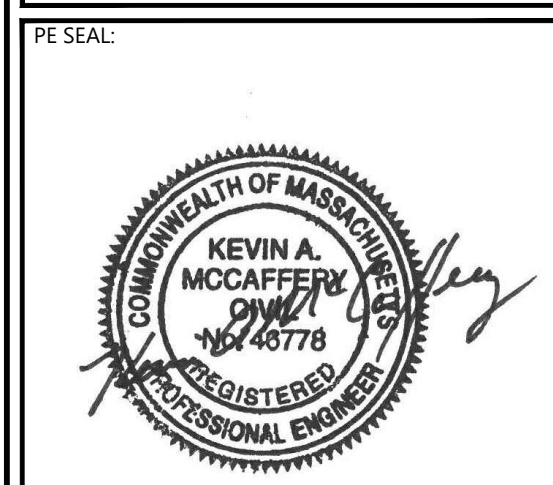


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**ISSUE FOR PERMIT**

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

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK/KM  
FILENAME: 0233681.02 C-20X.dwg

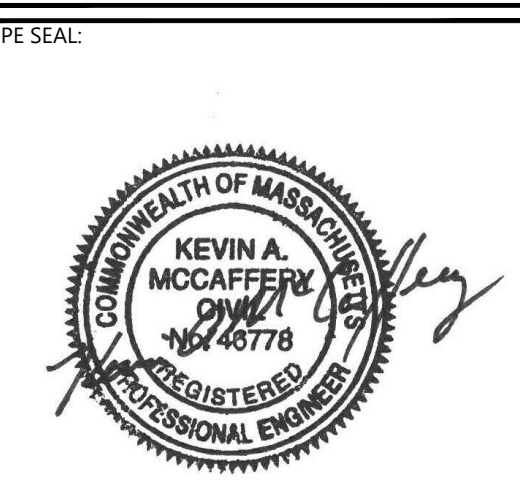
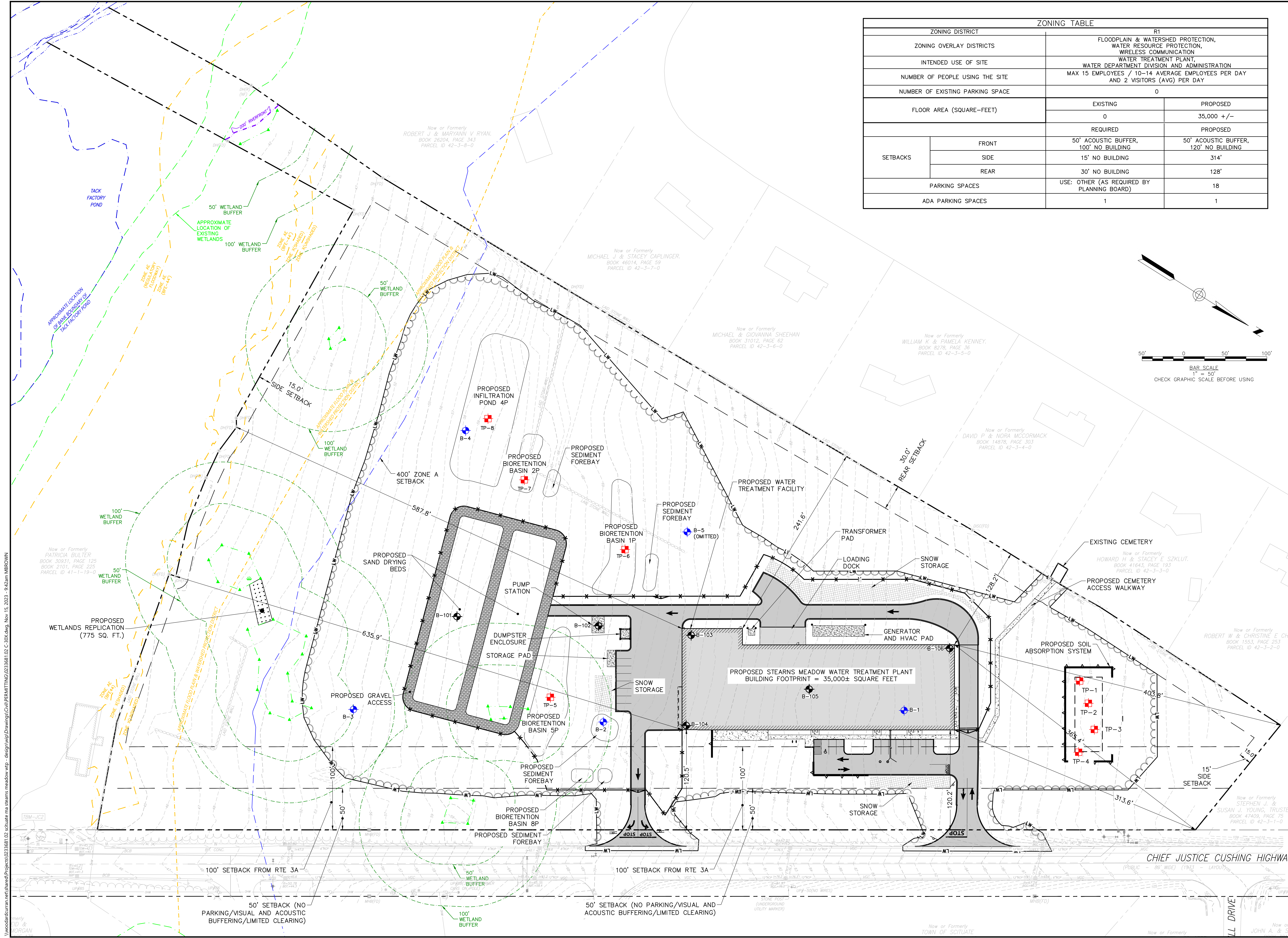
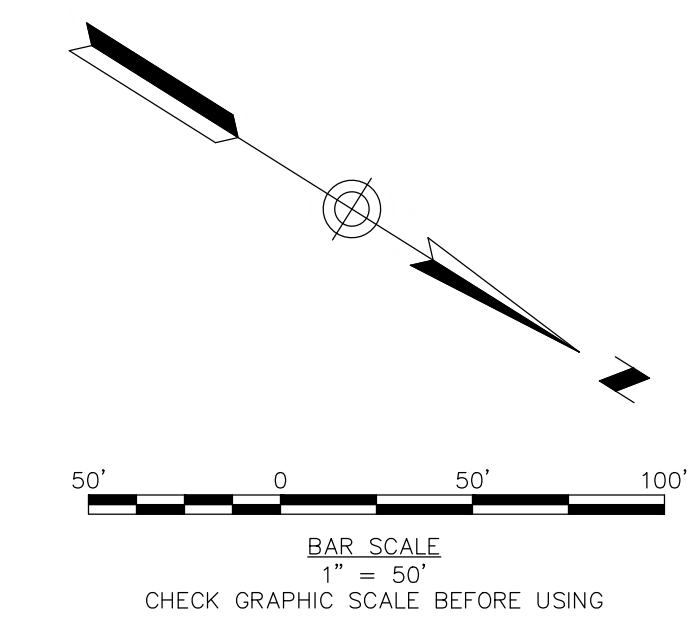
**EROSION & SEDIMENT CONTROL PLAN**

DRAWING NO:  
**C-203**

**MATCH LINE SHEET C-201/C-202**

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ZONING TABLE			
ZONING DISTRICT	R1		
ZONING OVERLAY DISTRICTS	FLOODPLAIN & WATERSHED PROTECTION, WATER RESOURCE PROTECTION, WIRELESS COMMUNICATION		
INTENDED USE OF SITE	WATER TREATMENT PLANT, WATER DEPARTMENT DIVISION AND ADMINISTRATION		
NUMBER OF PEOPLE USING THE SITE	MAX 15 EMPLOYEES / 10-14 AVERAGE EMPLOYEES PER DAY AND 2 VISITORS (AVG) PER DAY		
NUMBER OF EXISTING PARKING SPACE	0		
FLOOR AREA (SQARE-FEET)	EXISTING	PROPOSED	
	0	35,000 +/-	
SETBACKS	REQUIRED	PROPOSED	
	FRONT	50' ACOUSTIC BUFFER, 100' NO. BUILDING	50' ACOUSTIC BUFFER, 120' NO. BUILDING
	SIDE	15' NO. BUILDING	314'
	REAR	30' NO. BUILDING	128'
PARKING SPACES	USE: OTHER (AS REQUIRED BY PLANNING BOARD)	18	
ADA PARKING SPACES	1	1	



**ISSUE FOR PERMIT**

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

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK  
FILENAME: 0233681.02 C-30X.dwg  
DRAWING TITLE:

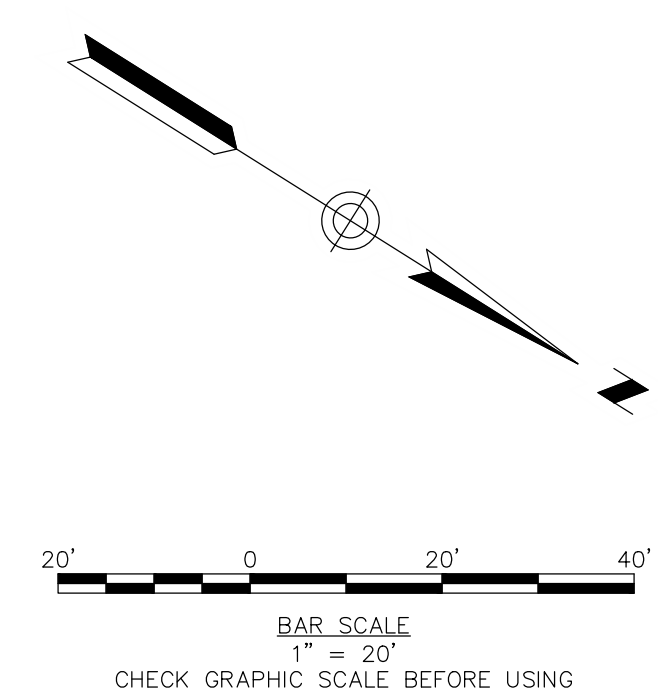
**OVERALL SITE LAYOUT PLAN**

DRAWING NO:  
**C-300**

WoodardCurran\shared\Projects\0233681.02 Scituate ma stearns meadow wtp - design\wp\Drawings\Civil\PERMITTING\0233681.02 C-30X.dwg, Nov. 15, 2023 - 9:42am MBRODWIN



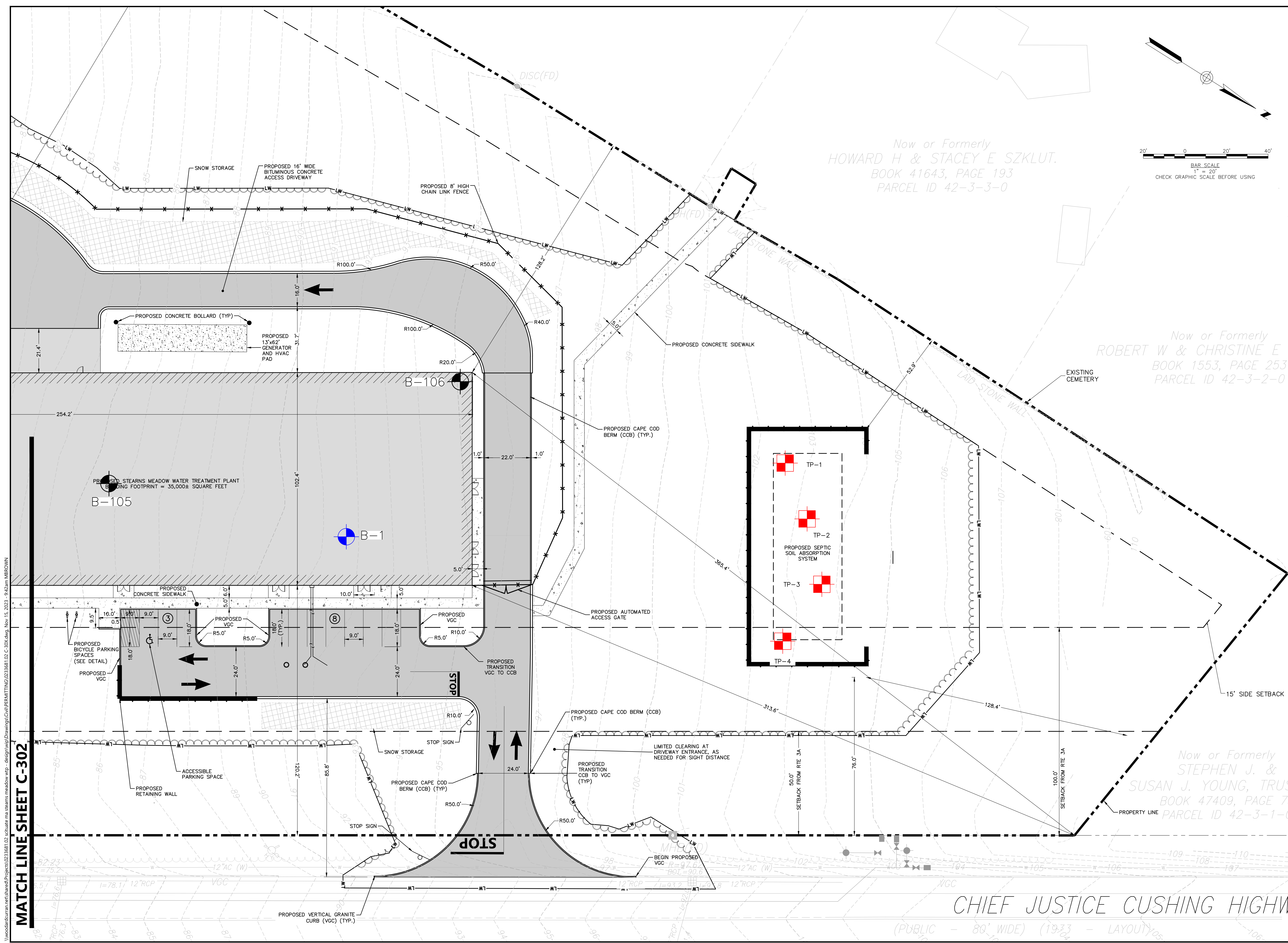
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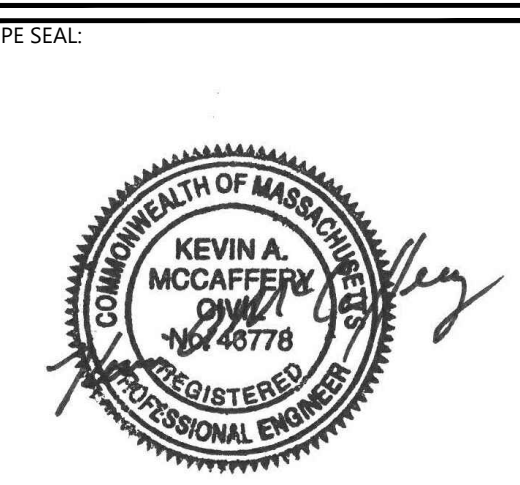
Now or Formerly  
 HOWARD H & STACEY E SZKLUT.  
 BOOK 41643, PAGE 193  
 PARCEL ID 42-3-3-0

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

Now or Formerly  
 STEPHEN J. &  
 SUSAN J. YOUNG, TRUSTEES  
 BOOK 47409, PAGE 7  
 PARCEL ID 42-3-1-0



MATCH LINE SHEET C-302



**ISSUE FOR PERMIT**

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

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
 DATE: AUGUST 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JC  
 DRAWN BY: MB  
 CHECKED BY: SK  
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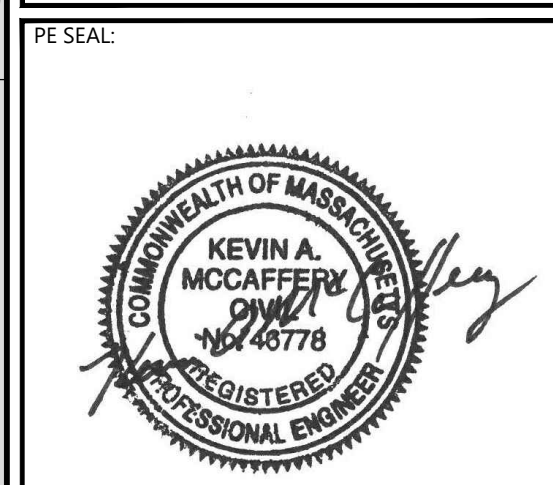
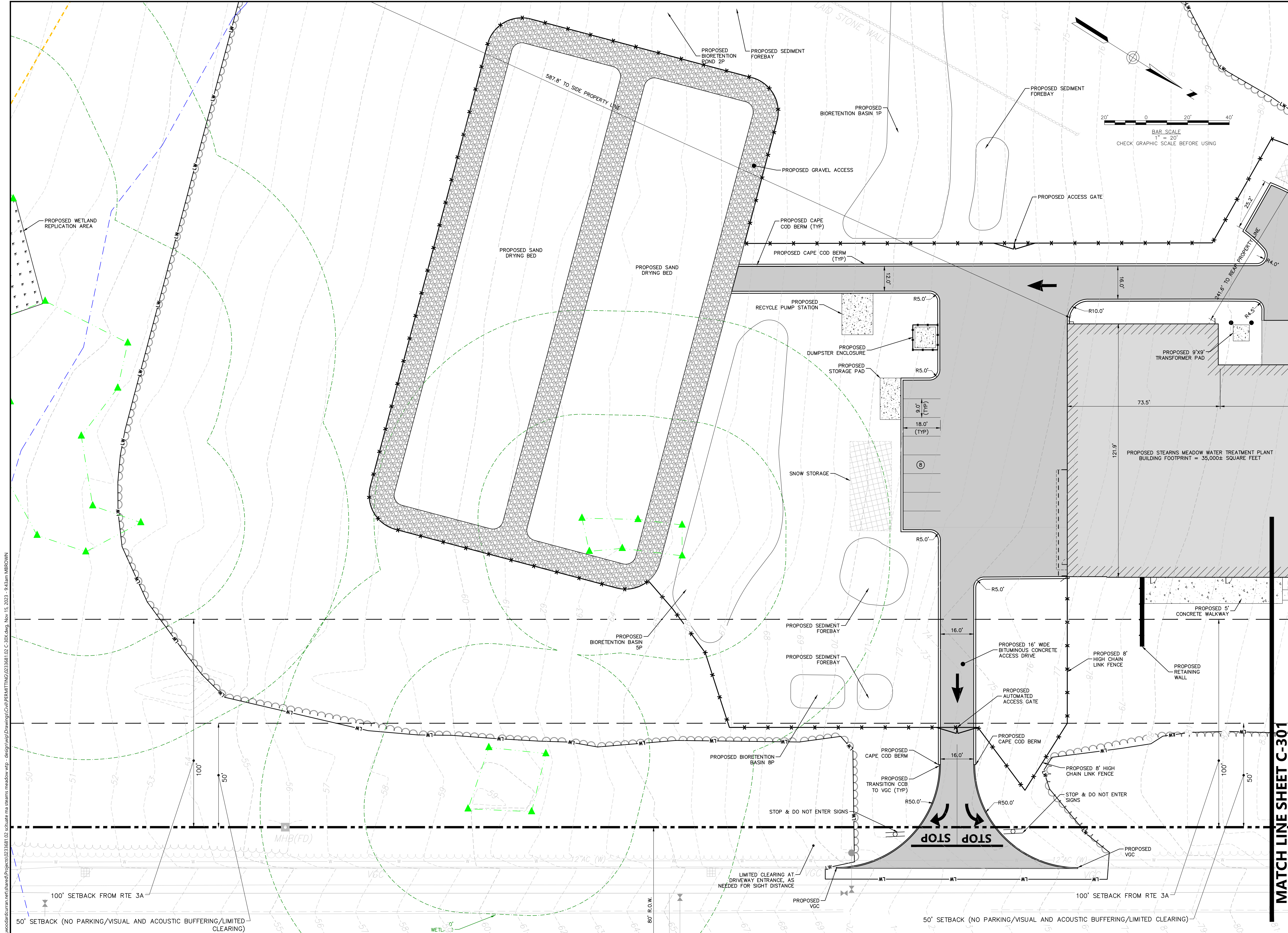
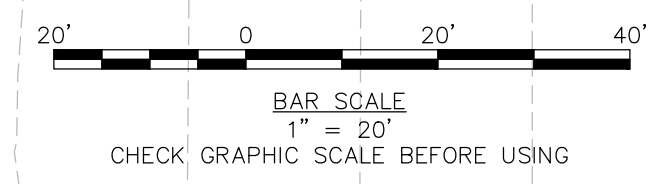
DRAWING TITLE:

**SITE LAYOUT PLAN**

DRAWING NO:  
**C-301**

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

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**ISSUE FOR PERMIT**

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

REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

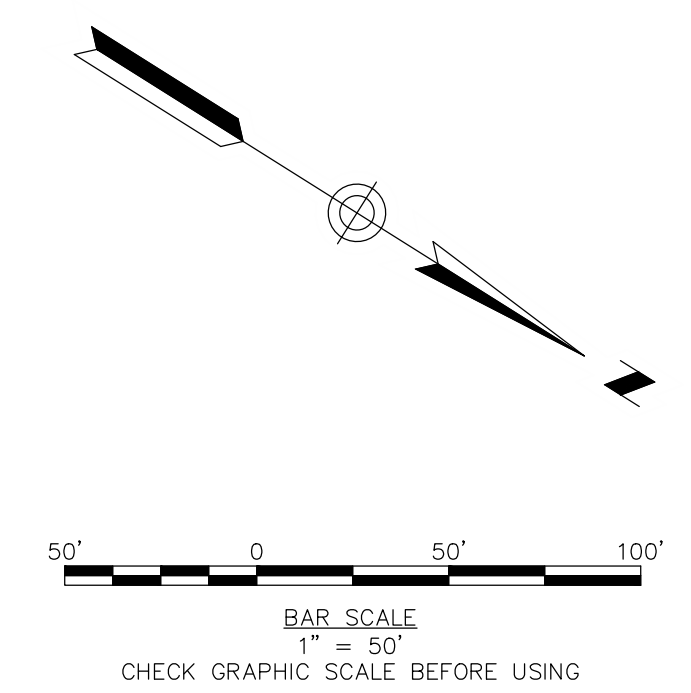
JOB NO: 0233681.02  
 DATE: AUGUST 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JC  
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 FILENAME: 0233681.02 C-30X.dwg

DRAWING TITLE:  
**SITE LAYOUT PLAN**

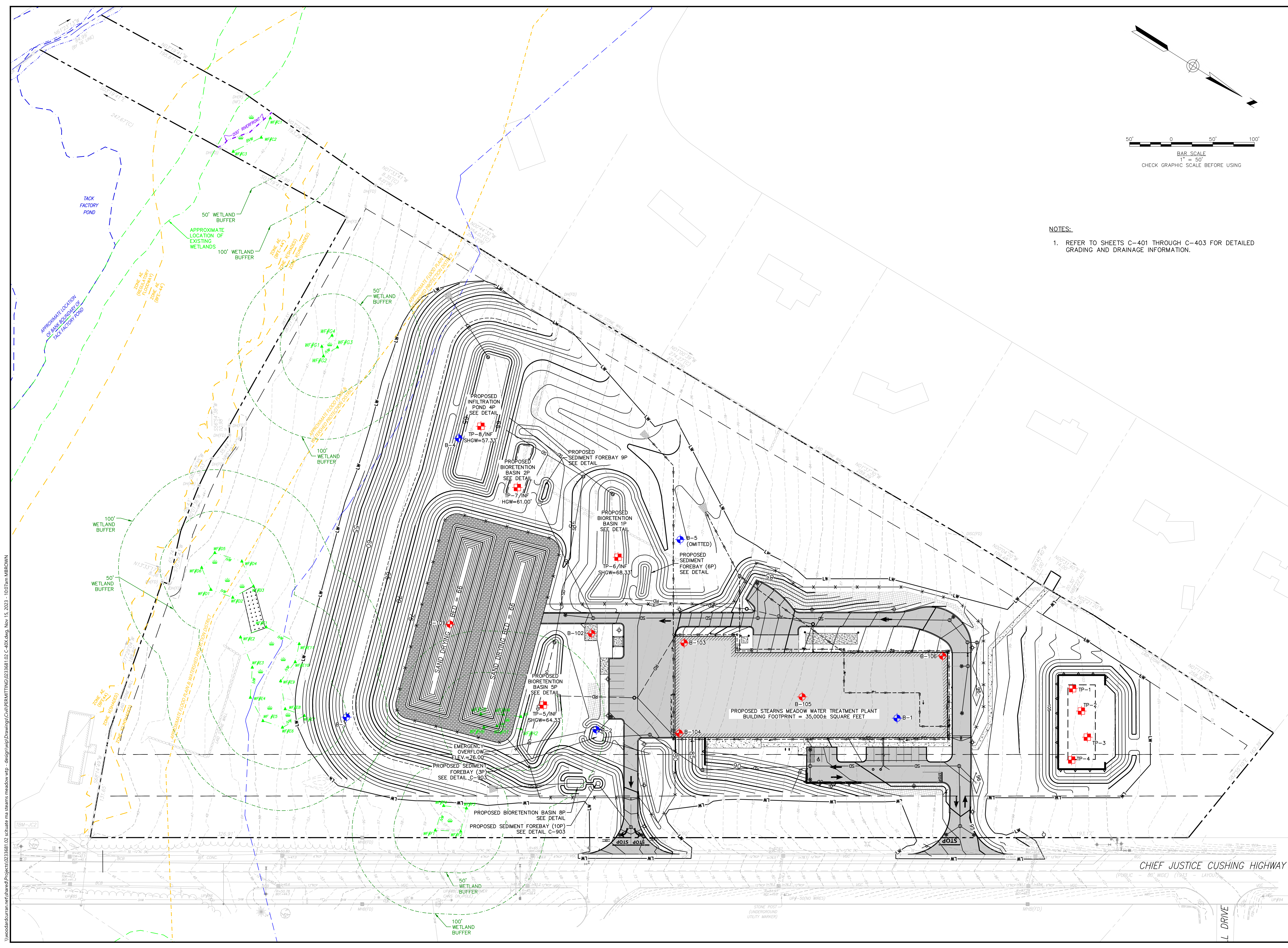
DRAWING NO:  
**C-302**

**MATCH LINE SHEET C-301**

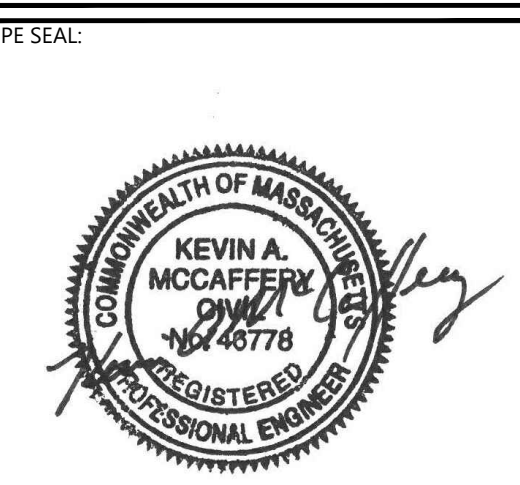
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**NOTES:**  
1. REFER TO SHEETS C-401 THROUGH C-403 FOR DETAILED  
GRADING AND DRAINAGE INFORMATION.



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**ISSUE FOR PERMIT**

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

REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK  
FILENAME: 0233681.02 C-40X.dwg

DRAWING TITLE:

**OVERALL GRADING & DRAINAGE  
PLAN**

DRAWING NO:  
**C-400**

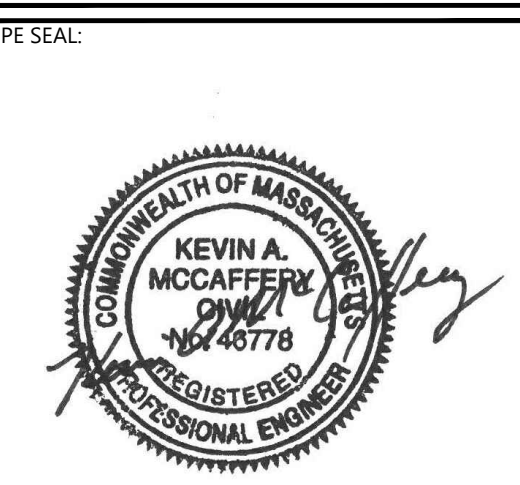
MATCH LINE SHEET C-403

Pipe Table							
START STRUCTURE	END STRUCTURE	START INV	END INV	SIZE	MATERIAL	LENGTH	SLOPE (FT/FT)
AD-1	DMH-5	93.50	93.20	12"	PP	63'	0.00
AD-2	DMH-10	93.50	93.00	12"	PP	29'	0.02
CB-4	DMH-6	93.60	93.20	12"	PP	57'	0.01
CB-6	DMH-9	90.70	90.50	12"	RCP	16'	0.02
CB-7	DMH-9	91.00	90.50	12"	RCP	20'	0.03
CB-10	DMH-11	91.30	91.10	12"	PP	20'	0.01
CB-11	DMH-11	92.30	92.10	12"	PP	20'	0.01
CB-12	DMH-3	93.07	93.01	12"	PP	6'	0.03
DMH-3	DMH-2	91.80	84.00	12"	PP	231'	0.03
DMH-4	DMH-3	92.50	91.90	12"	PP	34'	0.02
DMH-5	DMH-4	93.00	92.60	12"	PP	11'	0.06
DMH-6	DMH-4	92.20	91.90	12"	PP	29'	0.01
DMH-9	DMH-8	88.30	84.40	12"	RCP	130'	0.03
DMH-10	DMH-9	90.20	88.40	12"	PP	179'	0.01
DMH-11	DMH-10	91.00	90.30	12"	PP	72'	0.01
RDC	CDS-2	82.85	82.50	12"	PP	82'	0.00
RL-3	RDC	83.02	82.85	12"	PP	34'	0.01

STRUCTURE TABLE		
STRUCTURE NAME	SIZE / MATERIAL	RIM ELEV
AD-1	28" DIA / PVC	95.500
AD-2	28" DIA / PVC	95.500
CB-3	4' DIA / PRECAST	96.110
CB-4	4' DIA / PRECAST	96.110
CB-6	4' DIA / PRECAST	93.300
CB-7	4' DIA / PRECAST	93.650
CB-10	4' DIA / PRECAST	93.900
CB-11	4' DIA / PRECAST	94.900
CB-12	4' DIA / PRECAST	95.570
DMH-3	4' DIA / PRECAST	95.750
DMH-4	4' DIA / PRECAST	96.500
DMH-5	4' DIA / PRECAST	96.650
DMH-6	4' DIA / PRECAST	96.320
DMH-10	4' DIA / PRECAST	96.100
DMH-11	4' DIA / PRECAST	94.500
RL-3	ROOF DRAIN	84.125



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

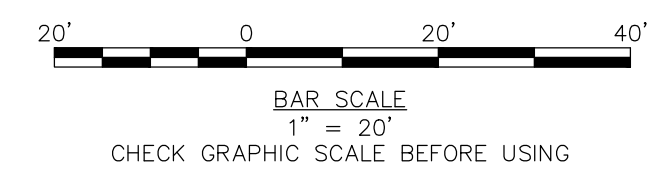
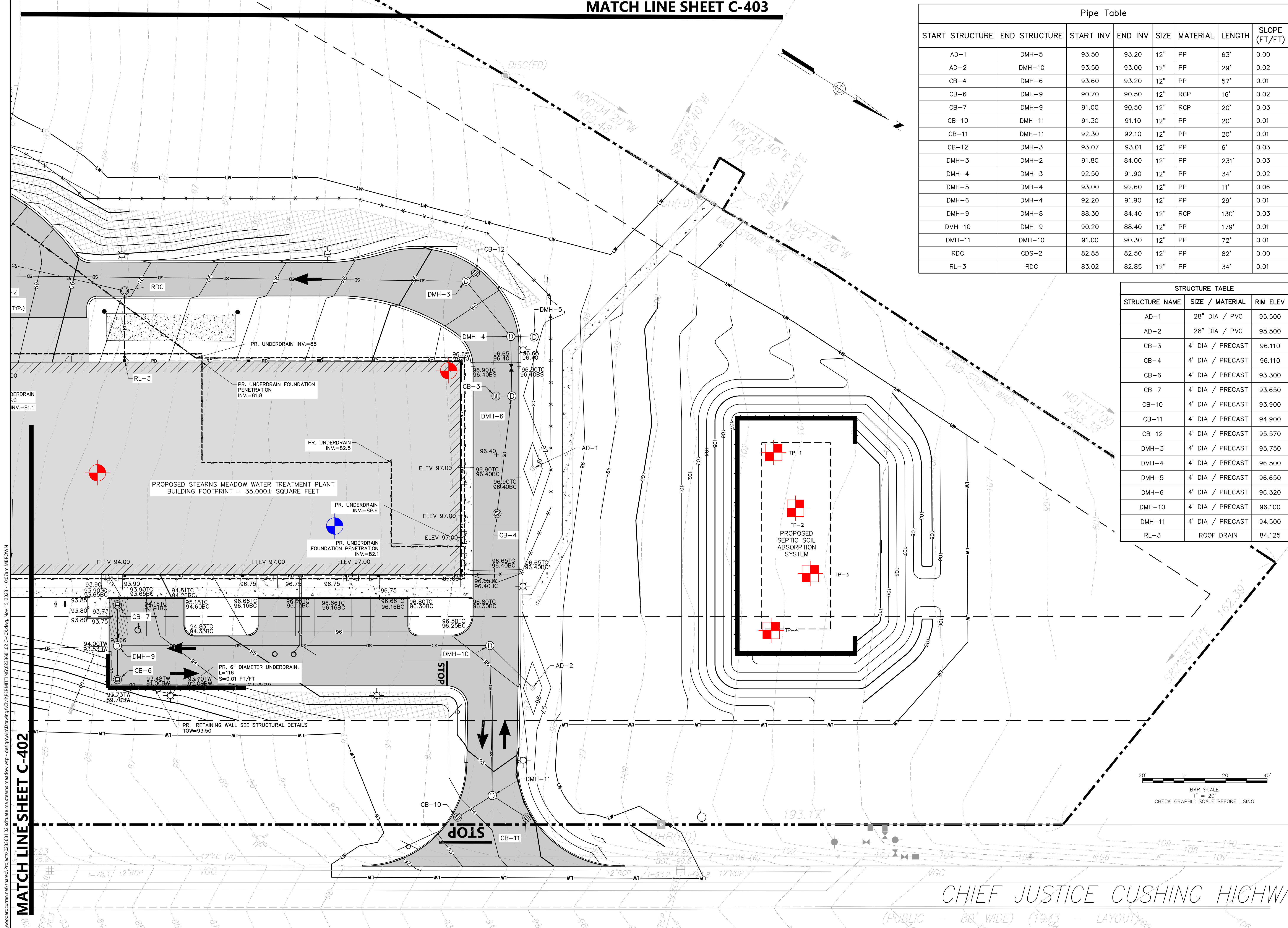
REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK/KM  
FILENAME: 0233681.02 C-40X.dwg

DRAWING TITLE:

GRADING & DRAINAGE PLAN

DRAWING NO:  
**C-401**



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

MATCH LINE SHEET C-402

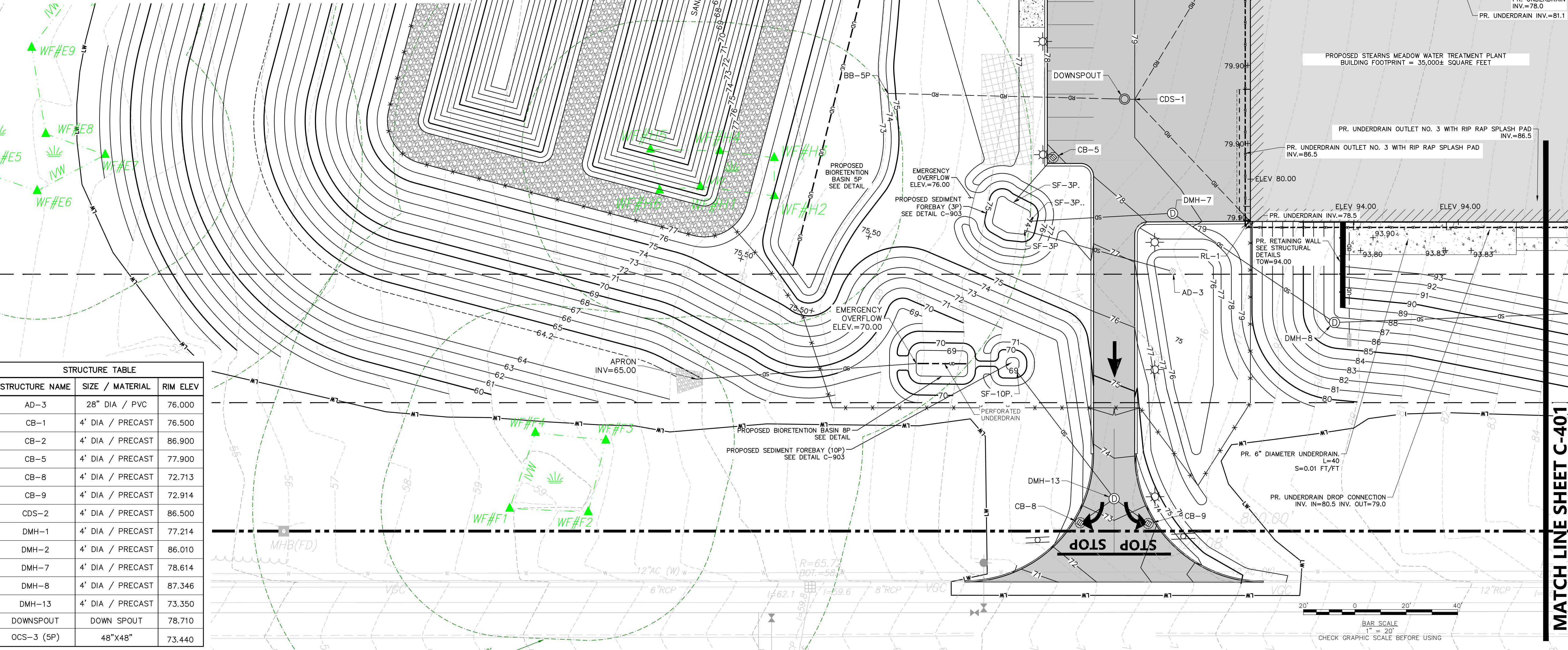
WoodardCurran.net\shared\Projects\0233681.02\_Scitate ma stearns meadow vtp - design\wp\Drawings\Civil\Permit\0233681.02\_C-40X.dwg, Nov 15, 2023, 10:07am MBROWN

**MATCH LINE SHEET C-403**



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Pipe Table						
START STRUCTURE	END STRUCTURE	START INV	END INV	SIZE	MATERIAL	LENGTH (FT/FT)
AD-3	SF-3P	74.30	74.00	12"	PP	60'
BIO-10P	APRON	66.00	65.00	6"	PP	86'
CB-1	DMH-1	74.30	74.00	12"	RCP	34'
CB-2	DMH-2	84.30	84.00	12"	RCP	42'
CB-3	DMH-6	93.60	93.30	12"	PP	8'
CB-4	DMH-6	93.60	93.20	12"	PP	57'
CB-5	SF-3P	75.00	74.00	12"	RCP	23'
CB-8	DMH-13	69.90	69.70	12"	PP	16'
CB-9	DMH-13	70.30	70.10	12"	PP	16'
CB-12	DMH-3	93.07	93.01	12"	PP	6'
CDS-2	BB-2P	82.50	77.00	12"	RCP	150'
DMH-1	SF-9P	73.90	72.00	12"	RCP	147'
DMH-2	DMH-1	80.40	74.00	12"	PP	198'
DMH-3	DMH-2	91.80	84.00	12"	PP	231'
DMH-7	SF-3P..	74.60	74.00	12"	PP	56'
DMH-8	DMH-7	80.00	74.70	12"	PP	76'
DMH-9	DMH-8	88.30	84.40	12"	RCP	130'
DMH-13	SF-10P.	69.60	69.00	12"	PP	62'
DOWNSPOUT	CDS-1	75.50	75.50	12"	RCP	4'
DOWNSPOUT	BB-5P	75.50	74.00	12"	RCP	92'
OCS-3 (5P)	DMH-12	70.33	69.35	24"	RCP	202'
RDC	CDS-2	82.85	82.50	12"	PP	82'
RL-1	CDS-1	76.39	75.50	6"	PP	65'
RL-2	CDS-1	76.19	75.50	6"	PP	86'



STRUCTURE TABLE		
STRUCTURE NAME	SIZE / MATERIAL	RIM ELEV
AD-3	28" DIA / PVC	76.000
CB-1	4' DIA / PRECAST	76.500
CB-2	4' DIA / PRECAST	86.900
CB-5	4' DIA / PRECAST	77.900
CB-8	4' DIA / PRECAST	72.713
CB-9	4' DIA / PRECAST	72.914
CDS-2	4' DIA / PRECAST	86.500
DMH-1	4' DIA / PRECAST	77.214
DMH-2	4' DIA / PRECAST	86.010
DMH-7	4' DIA / PRECAST	78.614
DMH-8	4' DIA / PRECAST	87.346
DMH-13	4' DIA / PRECAST	73.350
DOWNSPOUT	DOWN SPOUT	78.710
OCS-3 (5P)	48"X48"	73.440



**ISSUE FOR PERMIT**

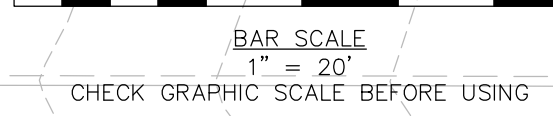
CLIENT INFO:  
TOWN OF SCITUATE,  
MASSACHUSETTS  
453 CHIEF JUSTICE  
CUSHING HIGHWAY

STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

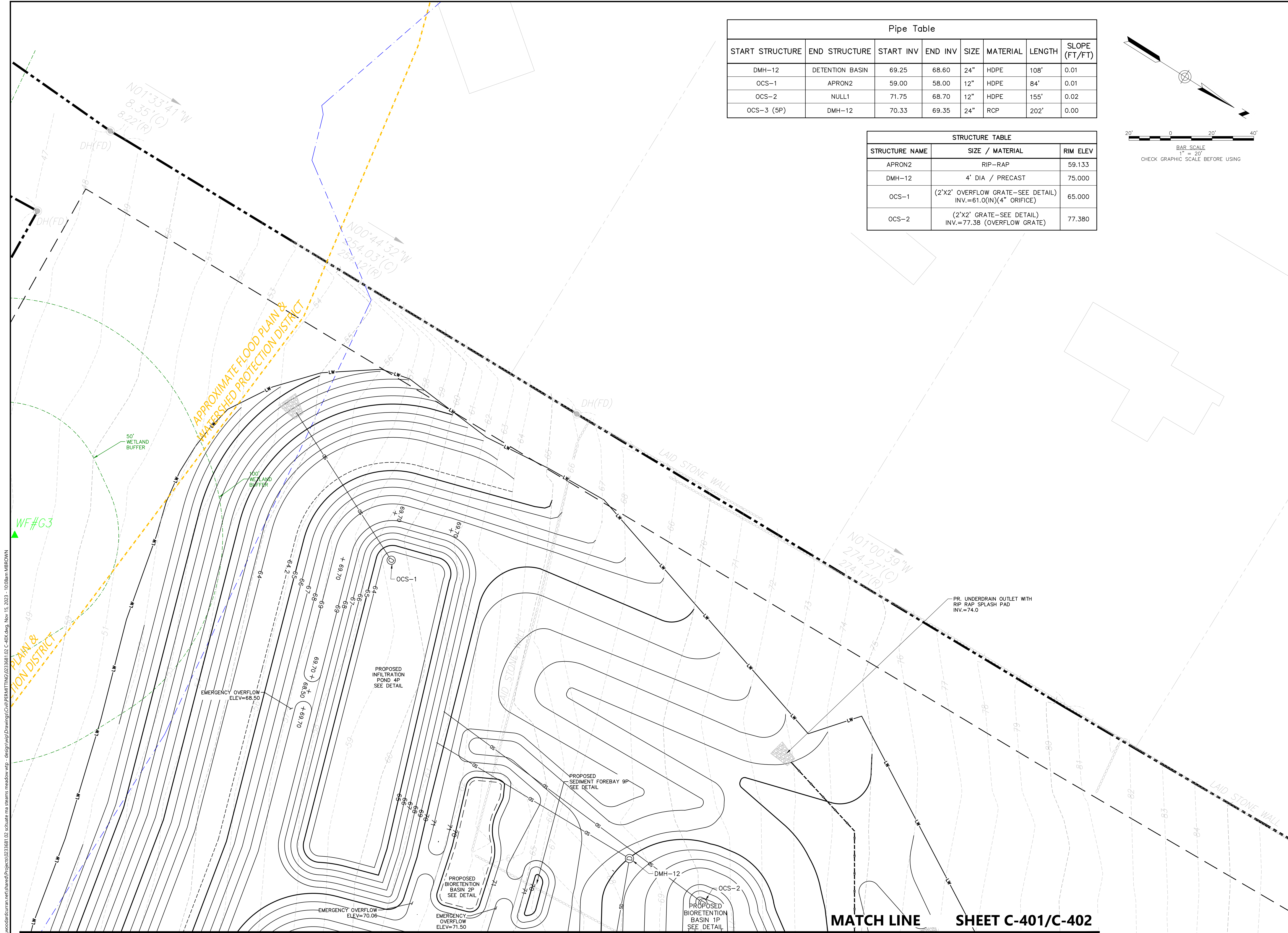
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2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK/KM  
FILENAME: 0233681.02 C-40X.dwg  
DRAWING TITLE:  
**GRADING & DRAINAGE PLAN**

**MATCH LINE SHEET C-401**

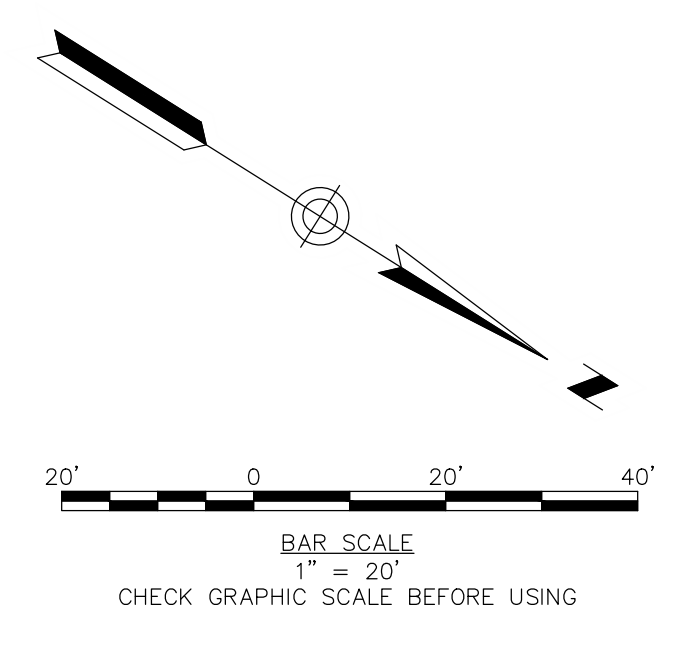


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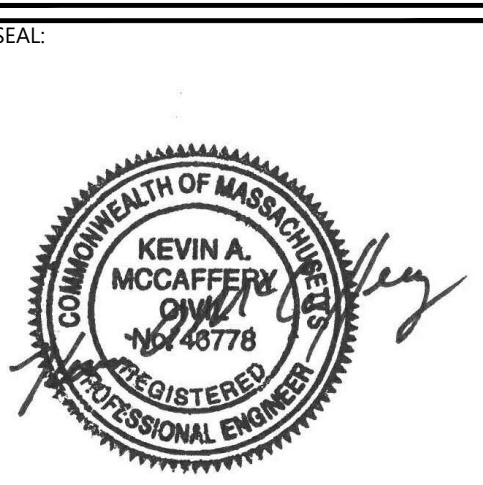


Pipe Table							
START STRUCTURE	END STRUCTURE	START INV	END INV	SIZE	MATERIAL	LENGTH	SLOPE (FT/FT)
DMH-12	DETENTION BASIN	69.25	68.60	24"	HDPE	108'	0.01
OCS-1	APRON2	59.00	58.00	12"	HDPE	84'	0.01
OCS-2	NULL1	71.75	68.70	12"	HDPE	155'	0.02
OCS-3 (5P)	DMH-12	70.33	69.35	24"	RCP	202'	0.00

STRUCTURE TABLE		
STRUCTURE NAME	SIZE / MATERIAL	RIM ELEV
APRON2	RIP-RAP	59.133
DMH-12	4' DIA / PRECAST	75.000
OCS-1	(2'X2' OVERFLOW GRATE-SEE DETAIL) INV.=61.0(IN)(4" ORIFICE)	65.000
OCS-2	(2'X2' GRATE-SEE DETAIL) INV.=77.38 (OVERFLOW GRATE)	77.380



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CLIENT INFO:  
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CUSHING HIGHWAY

STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

REV	MM/DD/YY	DESCRIPTION
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JOB NO: 0233681.02  
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CHECKED BY: SK/KM  
FILENAME: 0233681.02 C-40X.dwg

DRAWING TITLE:

**GRADING & DRAINAGE PLAN**

DRAWING NO:  
**C-403**

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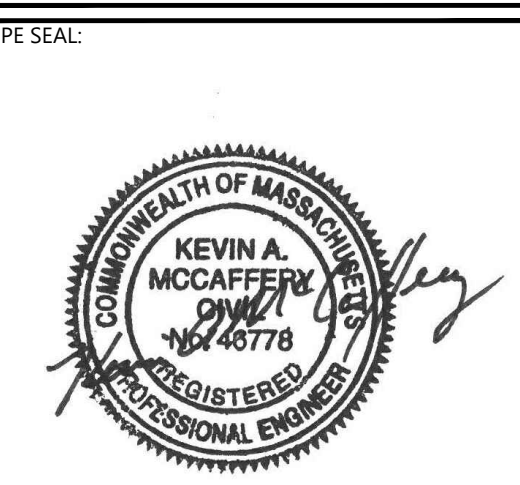
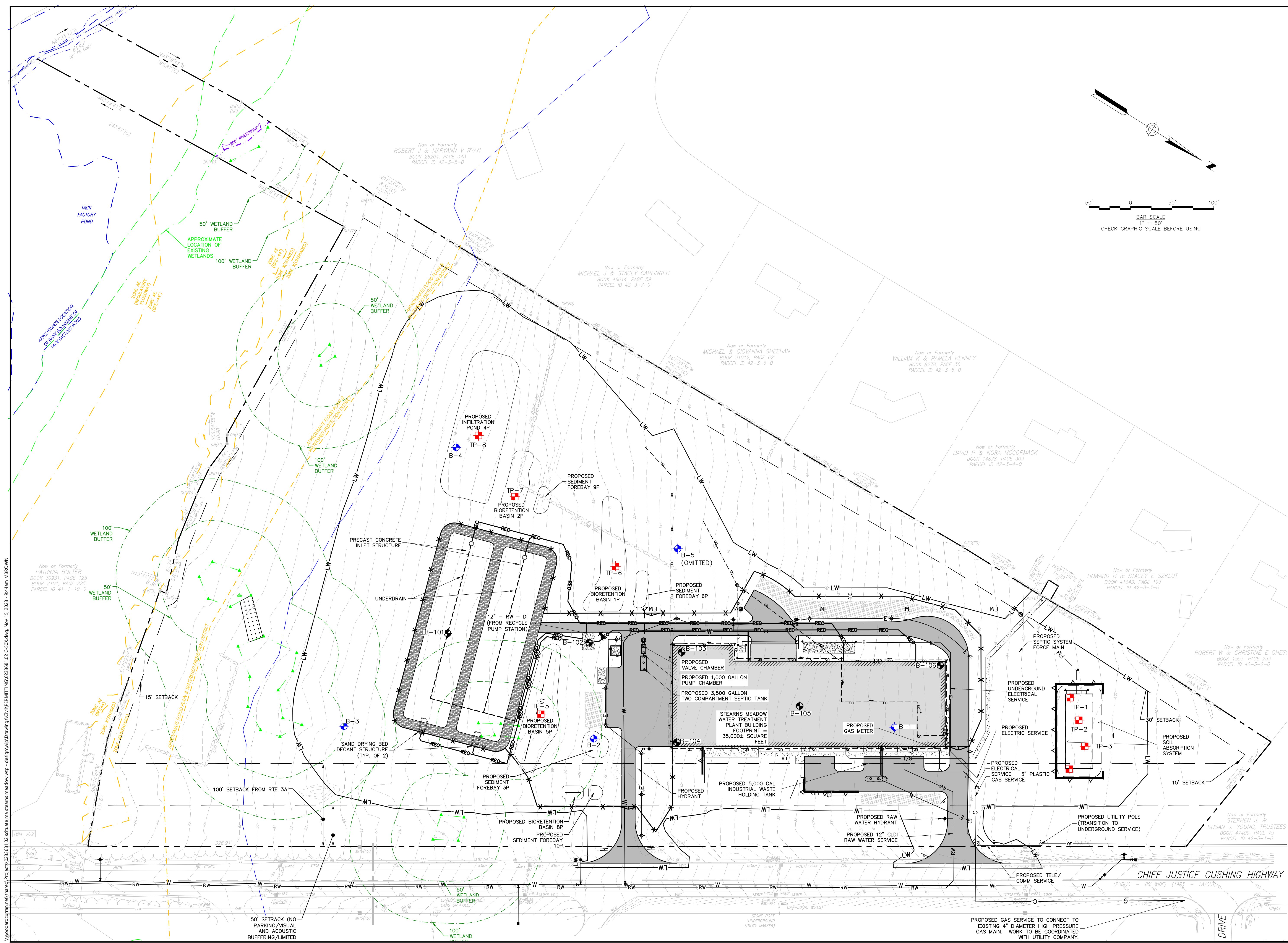
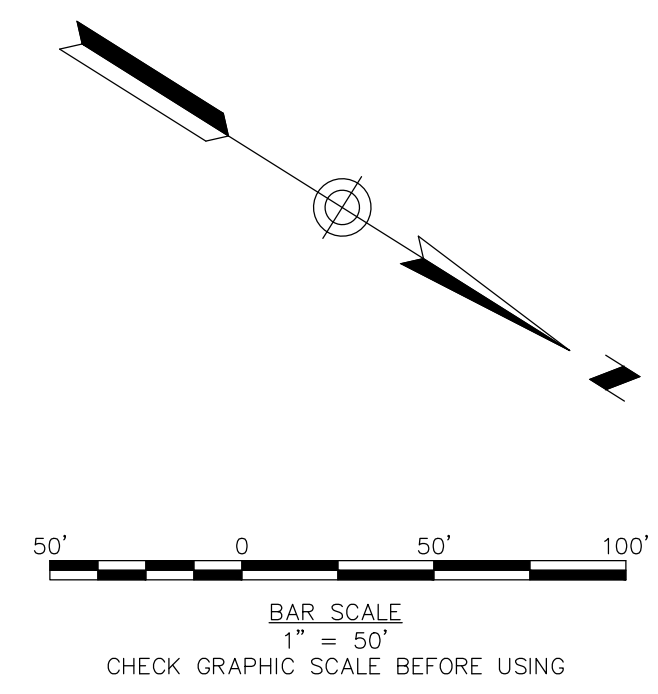
**MATCH LINE SHEET C-401/C-402**



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CUSHING HIGHWAY**  
  
**STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT**

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1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
 DATE: AUGUST 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JC  
 DRAWN BY: MB  
 CHECKED BY: SK  
 FILENAME: 0233681.02 C-50X.dwg  
 DRAWING TITLE:

**OVERALL UTILITIES PLAN**

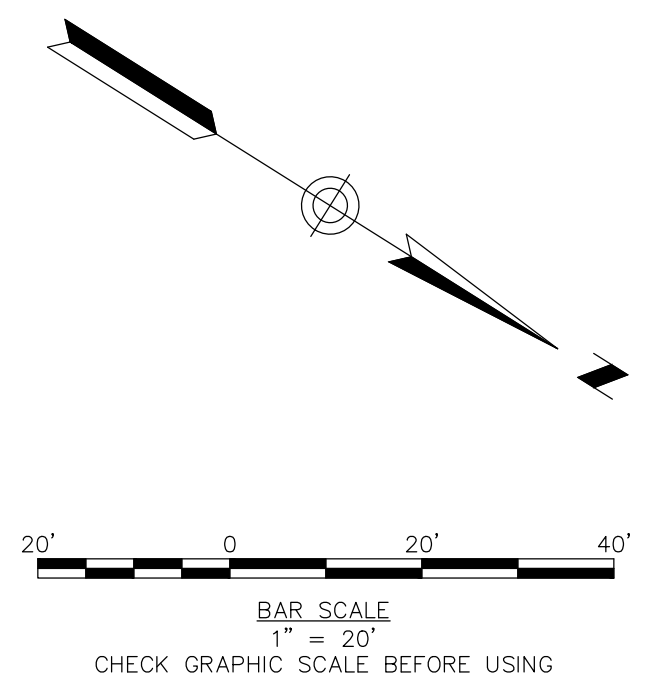
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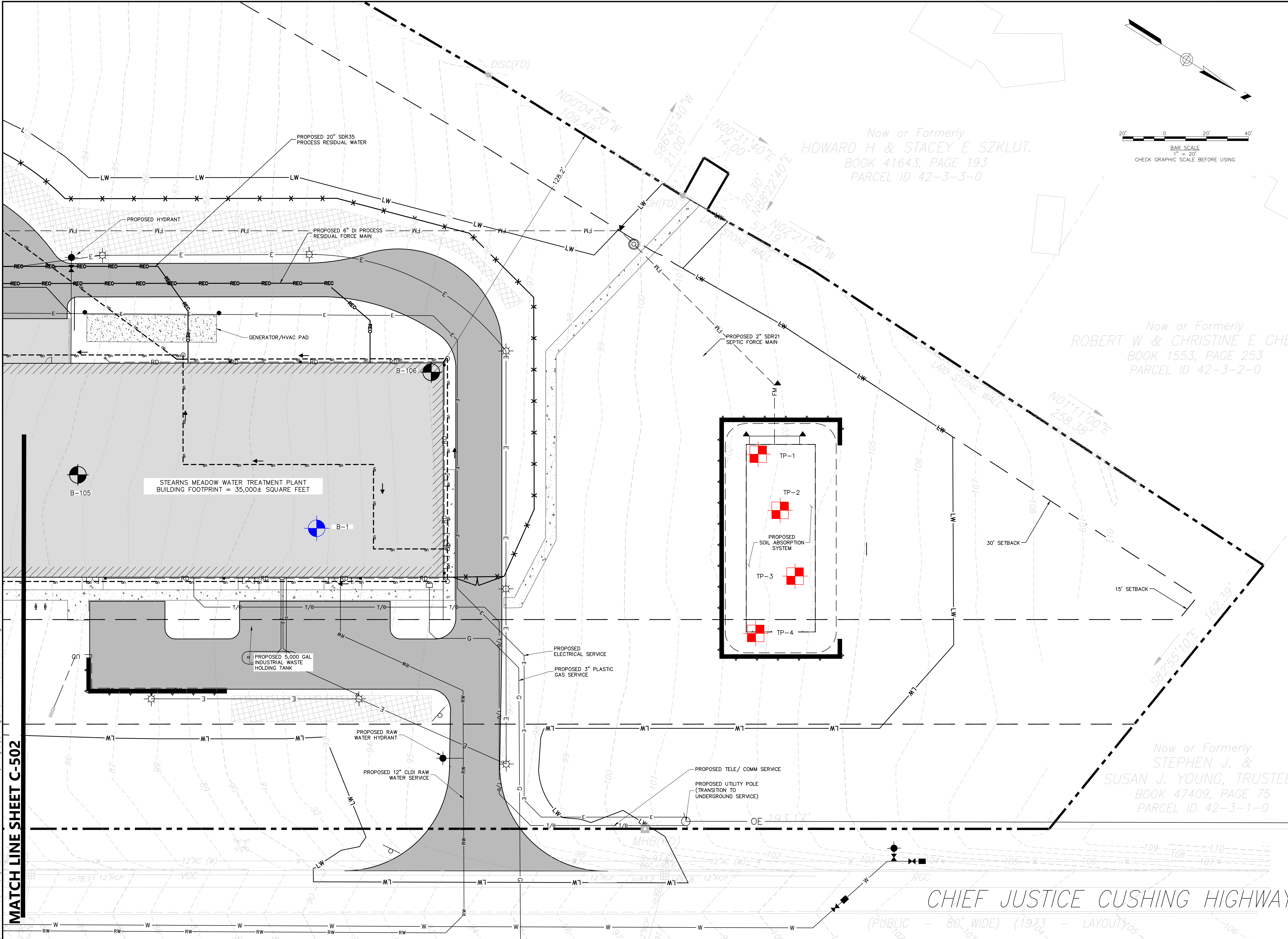
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Now or Formerly  
**HOWARD H & STACEY E SZKLUT.**  
BOOK 41643, PAGE 193  
PARCEL ID 42-3-3-0

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

Now or Formerly  
**STEPHEN J. & SUSAN J. YOUNG, TRUSTEES**  
BOOK 47409, PAGE 75  
PARCEL ID 42-3-1-0



**MATCH LINE SHEET C-502**



**ISSUE FOR PERMIT**

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DRINKING WATER  
TREATMENT PLANT

REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK/KM  
FILENAME: 0233681.02 C-50X.dwg

DRAWING TITLE:

**UTILITIES PLAN**

DRAWING NO:  
**C-501**

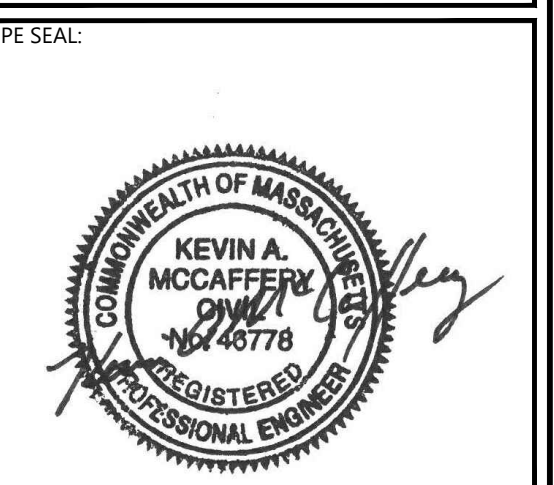
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CUSHING HIGHWAY

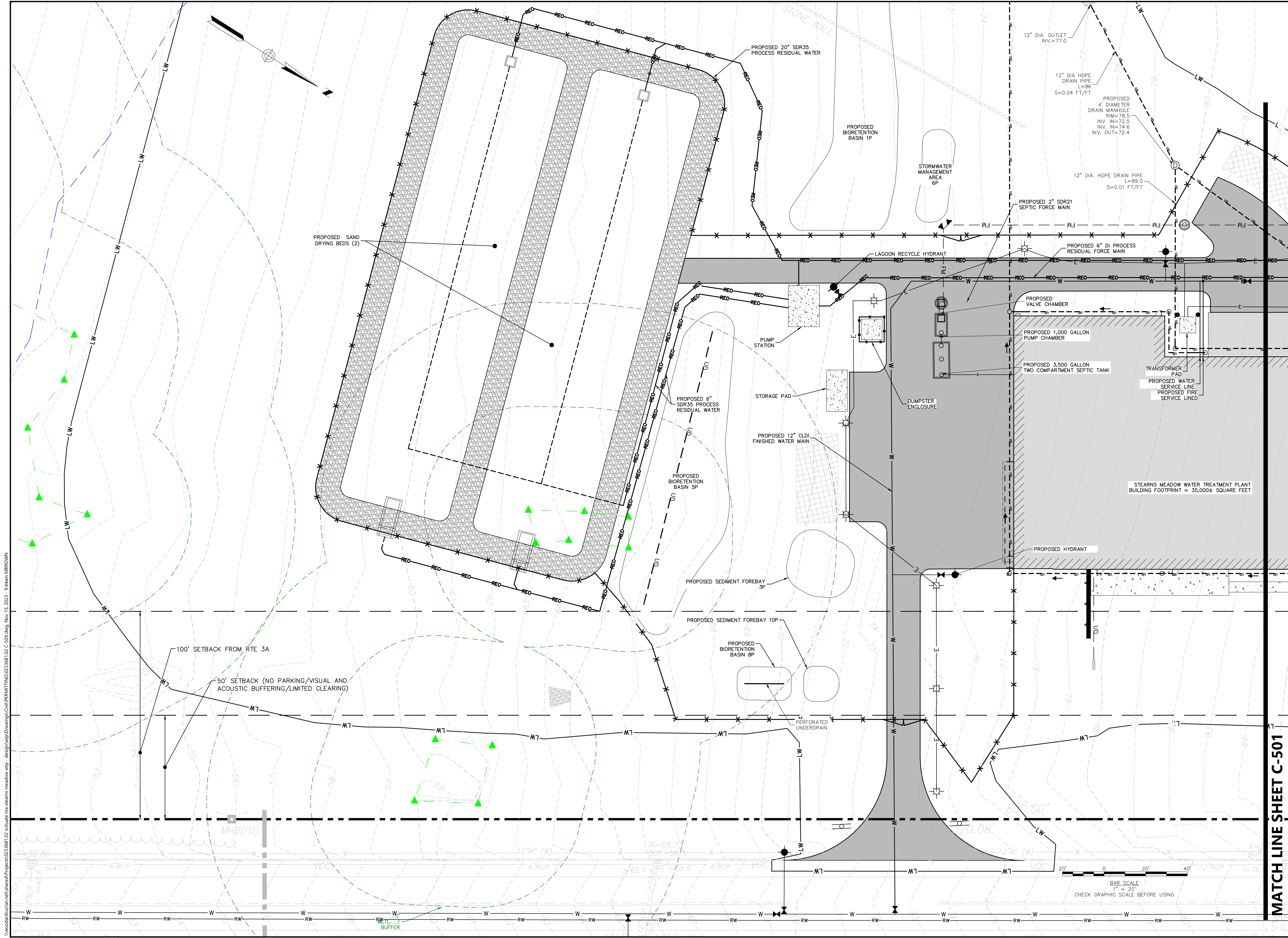
STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION
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1	10/06/2023	PEER REVIEW RESPONSE

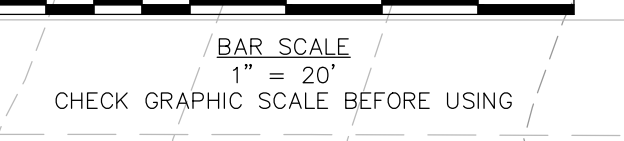
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DATE:	AUGUST 2023
SCALE:	AS SHOWN
DESIGNED BY:	JC
DRAWN BY:	MB
CHECKED BY:	SK/KM
FILENAME:	0233681.02 C-50X.dwg

DRAWING TITLE:  
**UTILITIES PLAN**

DRAWING NO:  
**C-502**



**MATCH LINE SHEET C-501**

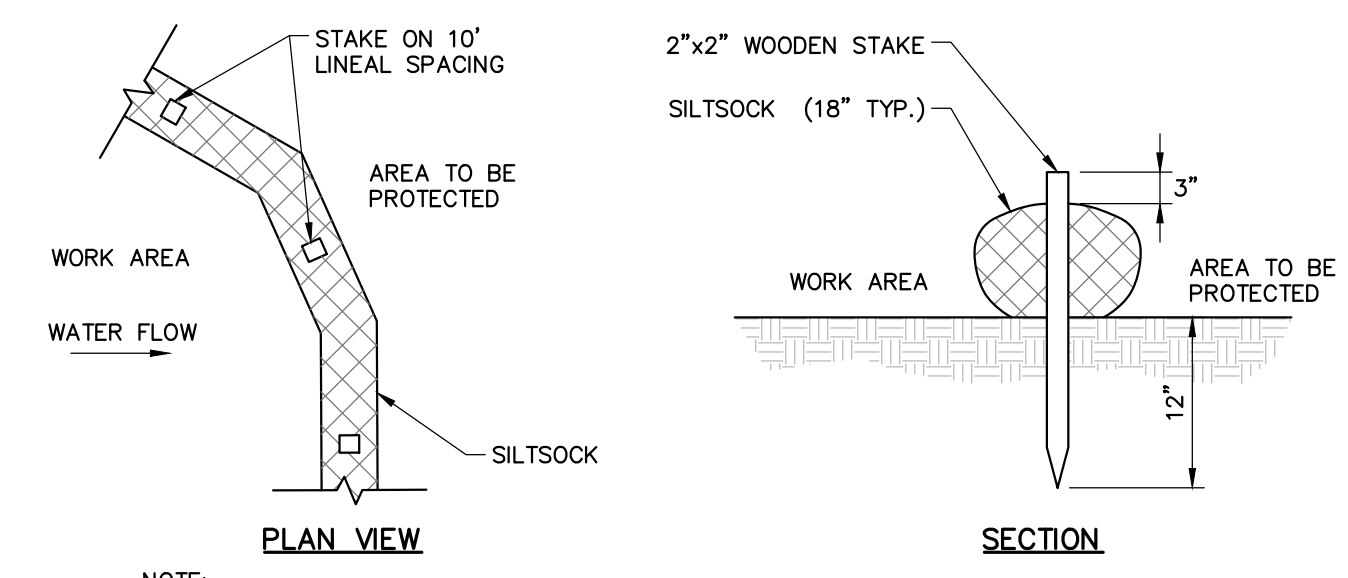


1" = 20'  
CHECK GRAPHIC SCALE BEFORE USING

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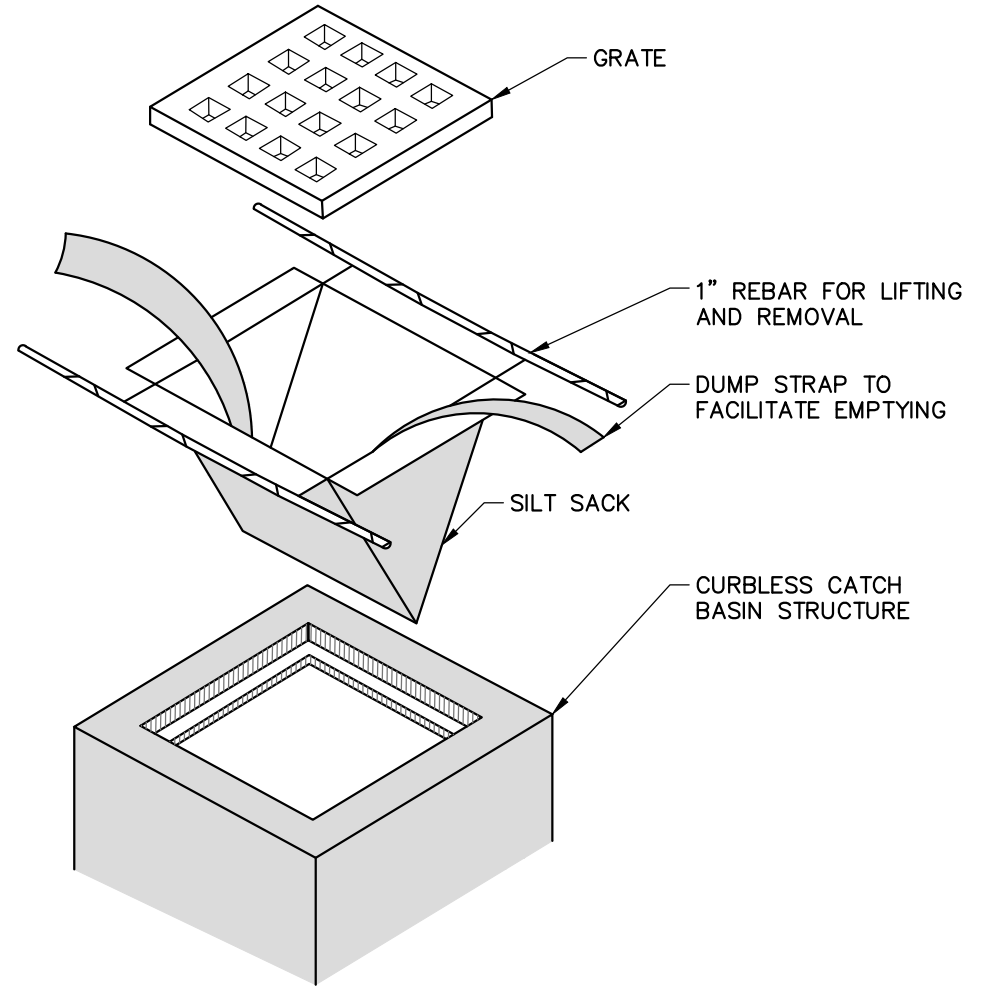


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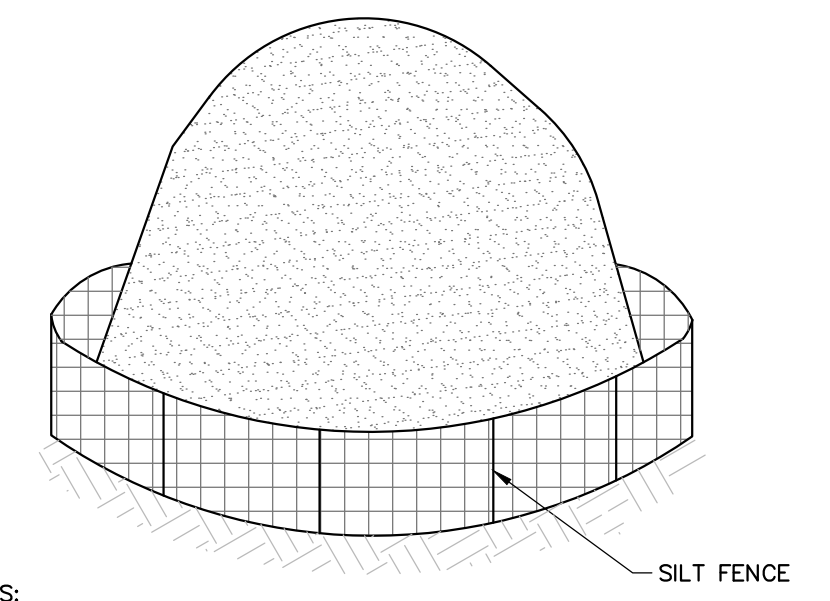
NOTE:  
1. WHEN STAKING IS NOT POSSIBLE, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SEDIMENT CONTROL TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.

**SEDIMENT BARRIER – SILT SOCK**  
NOT TO SCALE



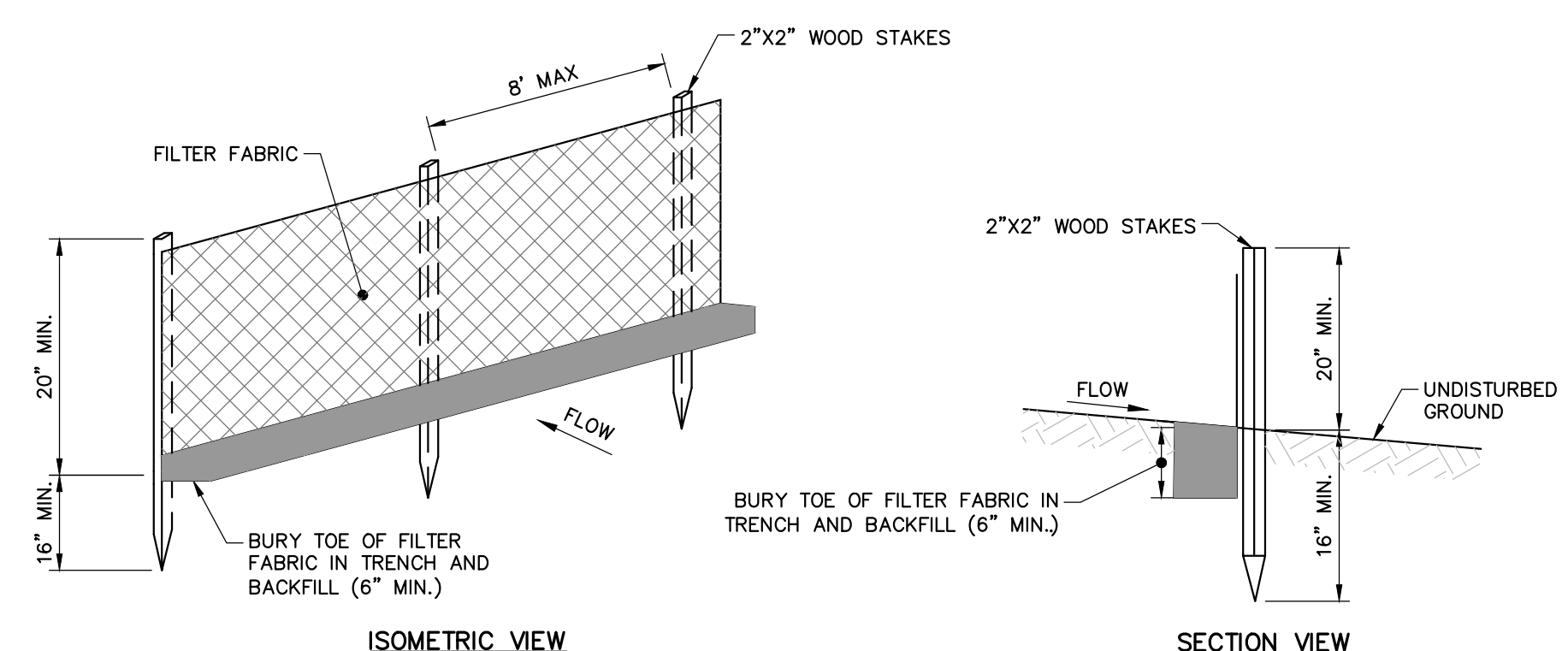
NOTES:  
1. INSTALL SILTSACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.  
2. EMPTY OR REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, AND REPLACE AS NEEDED.  
3. SILT SACKS TO BE INSTALLED WHEN THE POTENTIAL FOR SEDIMENT TO ENTER EXISTING & PROPOSED BASINS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

**SILTSACK – CURBLESS INLET**  
NOT TO SCALE



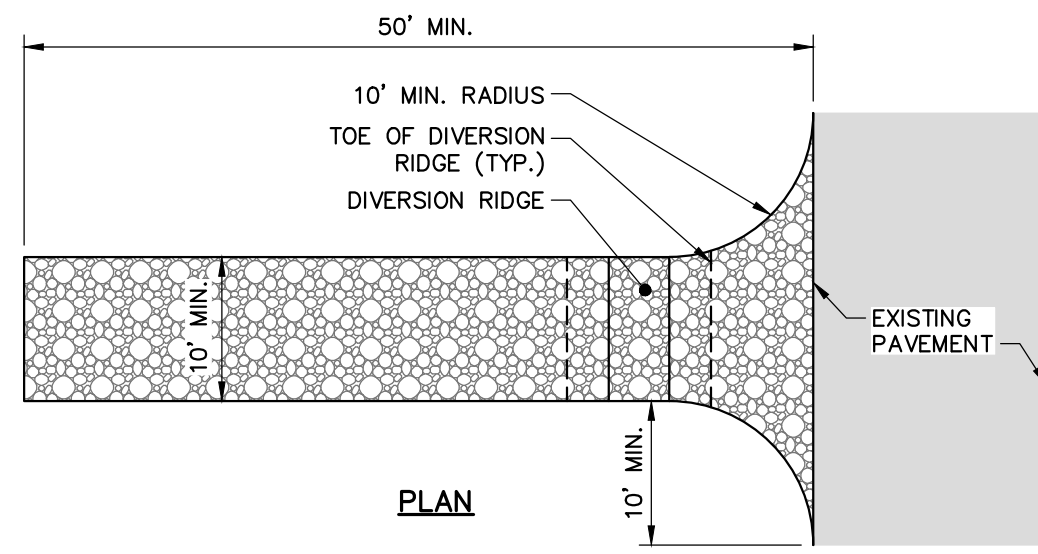
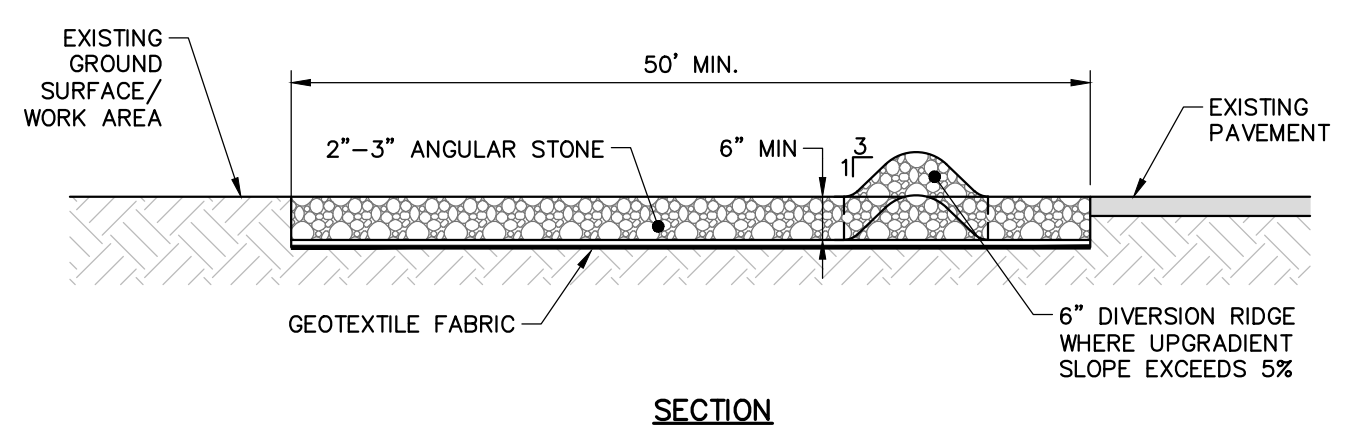
NOTES:  
1. STOCKPILES SHALL BE SURROUNDED BY SILT FENCE.  
2. STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.  
3. REPAIR OR REPLACE DAMAGED SILT FENCE DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.  
4. STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

**TEMPORARY SOIL STOCKPILE**  
NOT TO SCALE



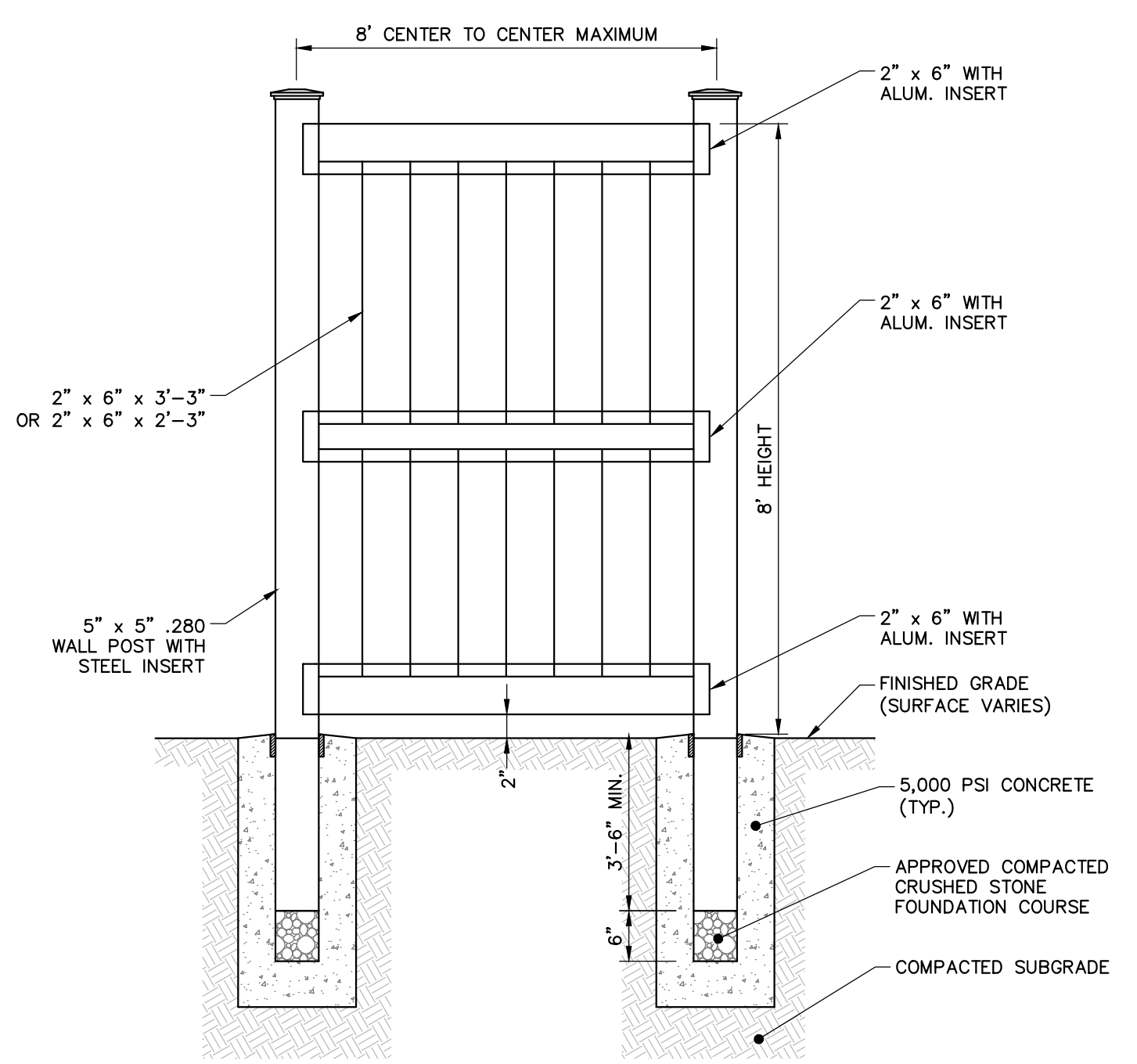
NOTES:  
1. INSTALL FABRIC ON UPHILL SIDE OF WOOD STAKES.  
2. SPACING BETWEEN WOOD STAKES PER MANUFACTURER'S RECOMMENDATION.  
3. SILT FENCE WILL NOT BE USED IN DRAINAGE WAYS.  
4. MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN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

**SEDIMENT BARRIER – SILT FENCE**  
NOT TO SCALE



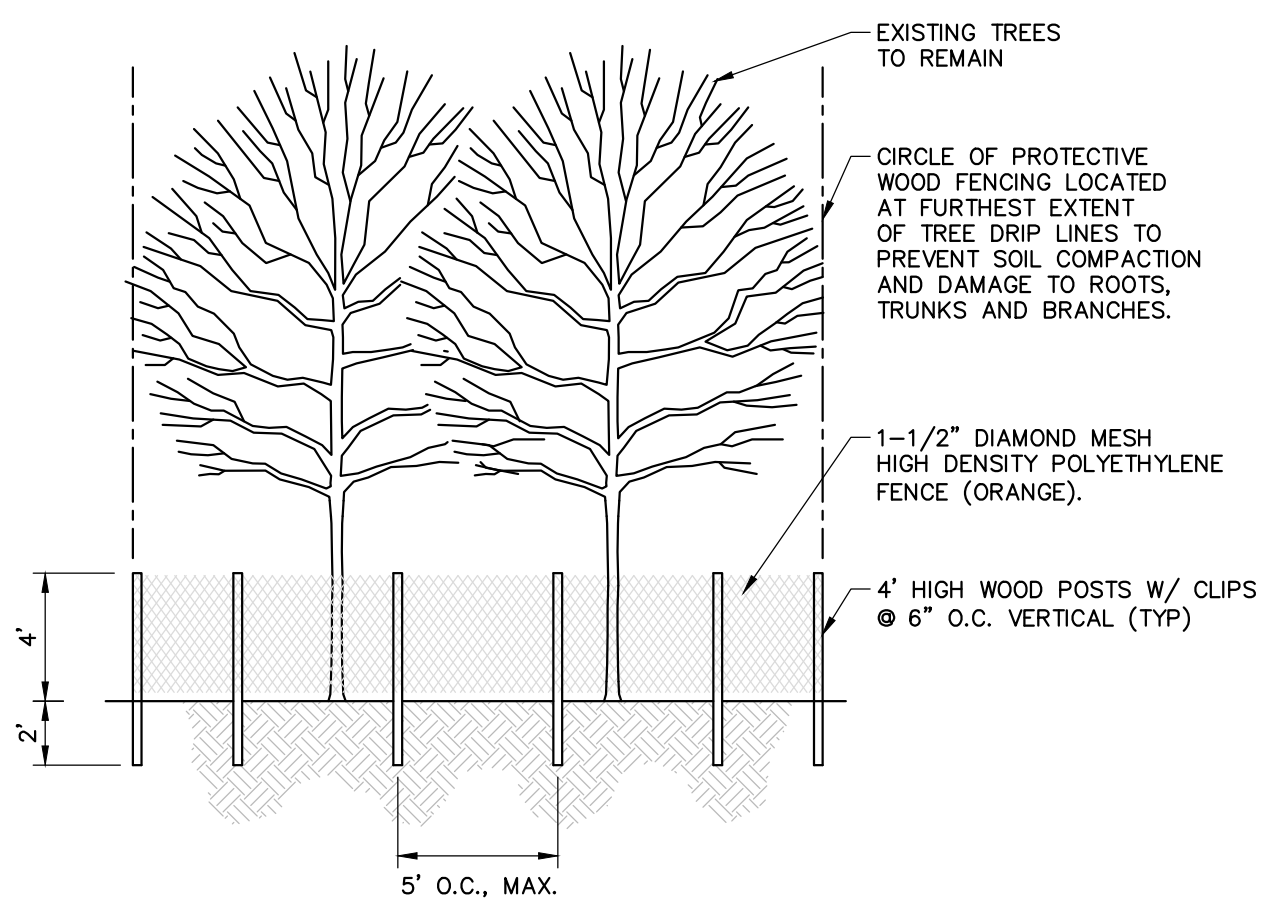
NOTES:  
1. GRADE TOWARDS SEDIMENT BARRIER WHEN NECESSARY TO MANAGE FLOW.  
2. INCREASE MINIMUM LENGTH TO 100' WHERE TRACKED SEDIMENTS CONTAIN LESS THAN 80% SAND OR AS NECESSARY FOR HEAVY CONSTRUCTION.

**STABILIZED CONSTRUCTION ENTRANCE/EXIT**  
NOT TO SCALE



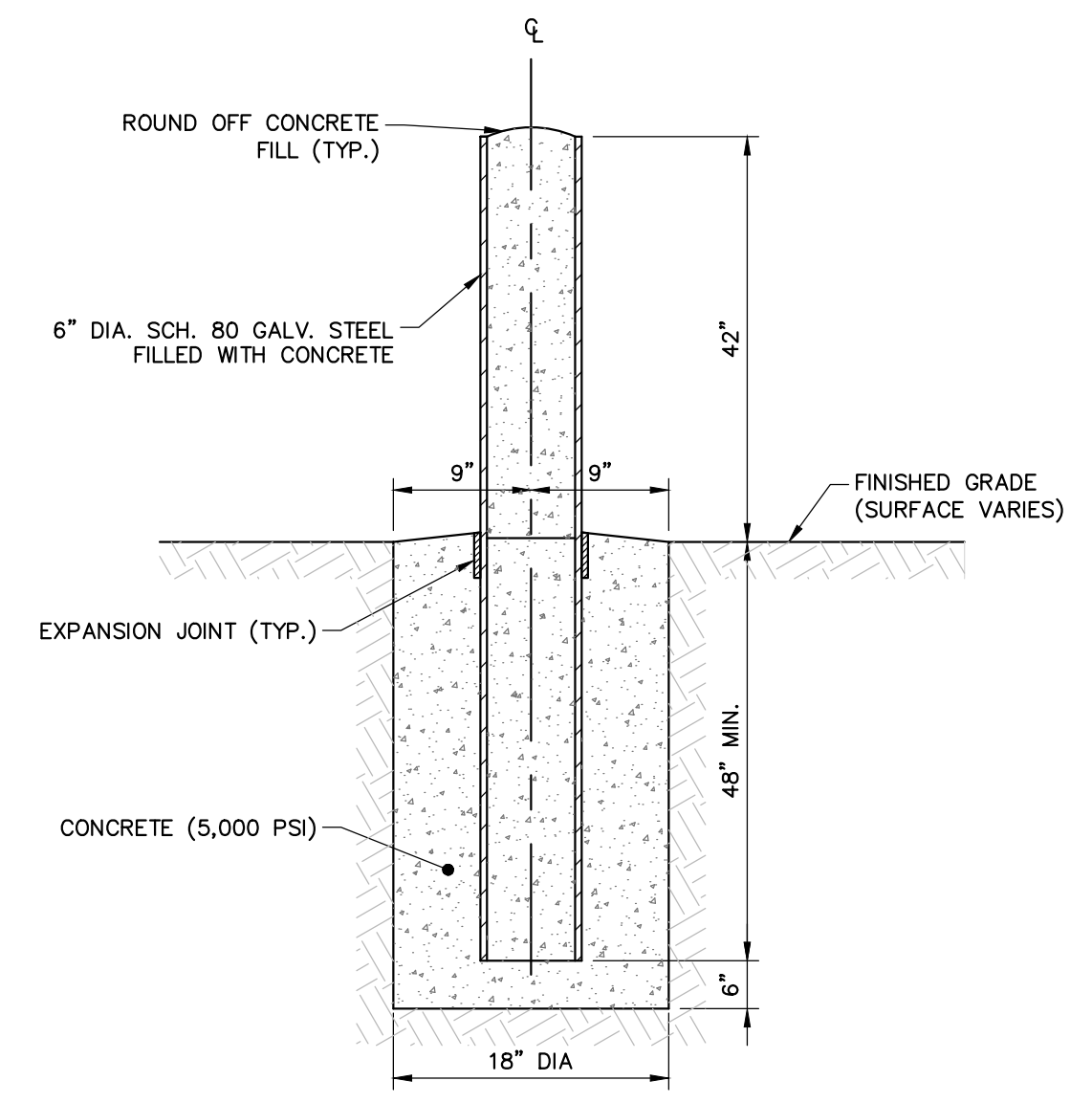
NOTE:  
1. FENCE TO BE PLACED AROUND DUMPSTER PAD TO PROVIDE ADEQUATE SCREENING OF TRASH CONTAINERS. SEE PLANS FOR LOCATION.

**PVC PRIVACY FENCE FOR DUMPSTER ENCLOSURE**  
NOT TO SCALE



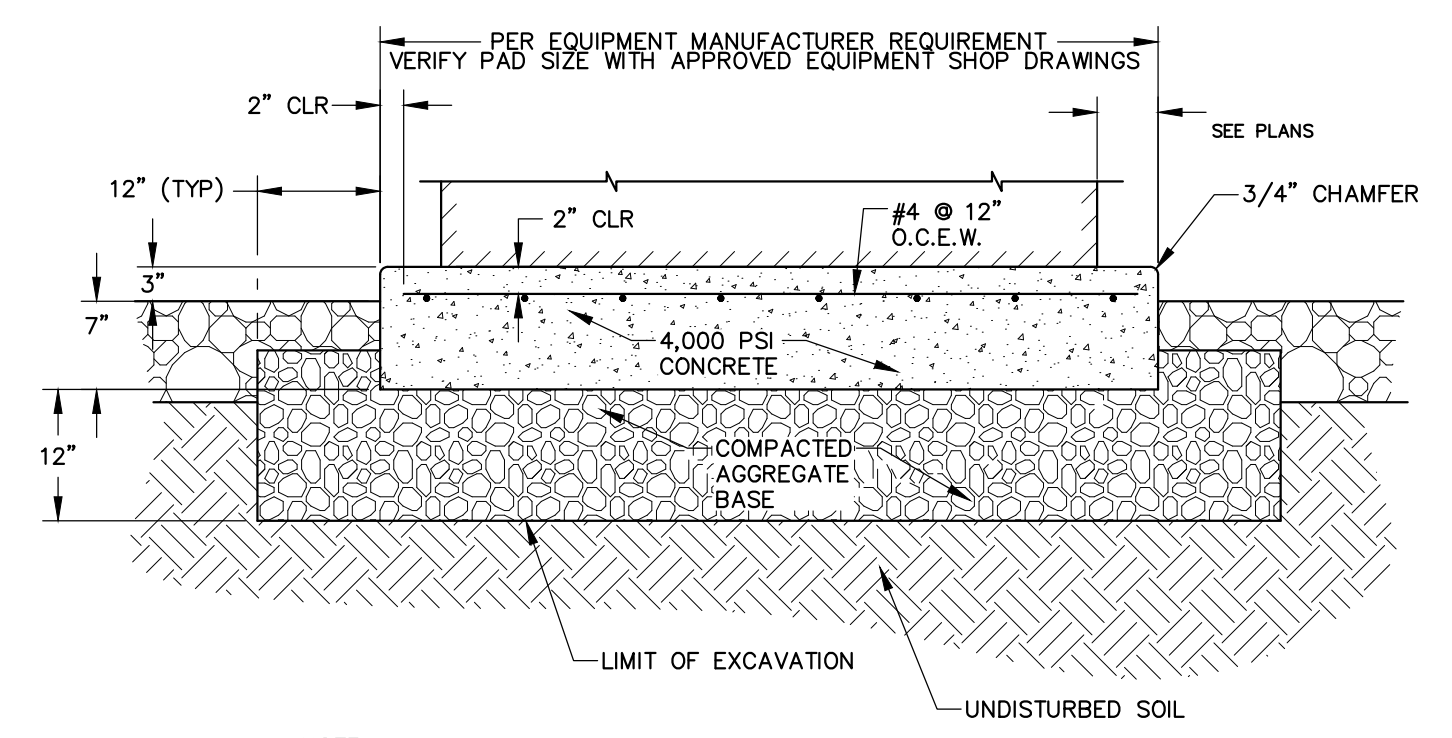
NOTES:  
1. LOCATE FENCING AS SHOWN ON PLANS.  
2. NO MATERIAL OR EQUIPMENT SHALL BE STORED OR STOCKPILED WITHIN THE AREA SURROUNDED BY TREE PROTECTION FENCING.  
3. FENCE MUST REMAIN AND BE MAINTAINED THROUGHOUT ENTIRE BUILDING PHASES DURING WHICH CONSTRUCTION MAY AFFECT TREES.

**TREE PROTECTION**  
NOT TO SCALE



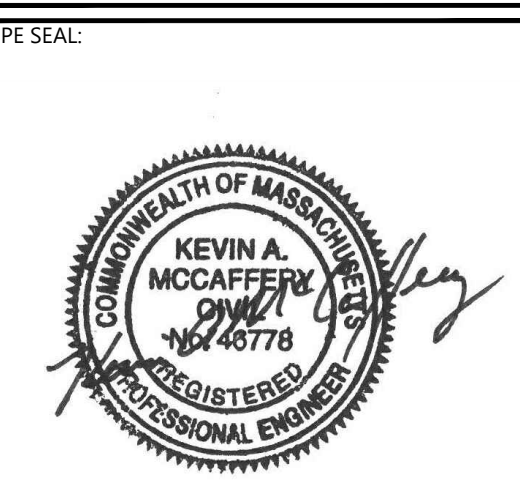
NOTE:  
1. ALL BOLLARDS SHALL BE PAINTED. COLOR SELECTED BY OWNER.

**6" DIA. BOLLARD**  
NOT TO SCALE



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

**UTILITY PAD DETAIL**  
NOT TO SCALE



**ISSUE FOR PERMIT**

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

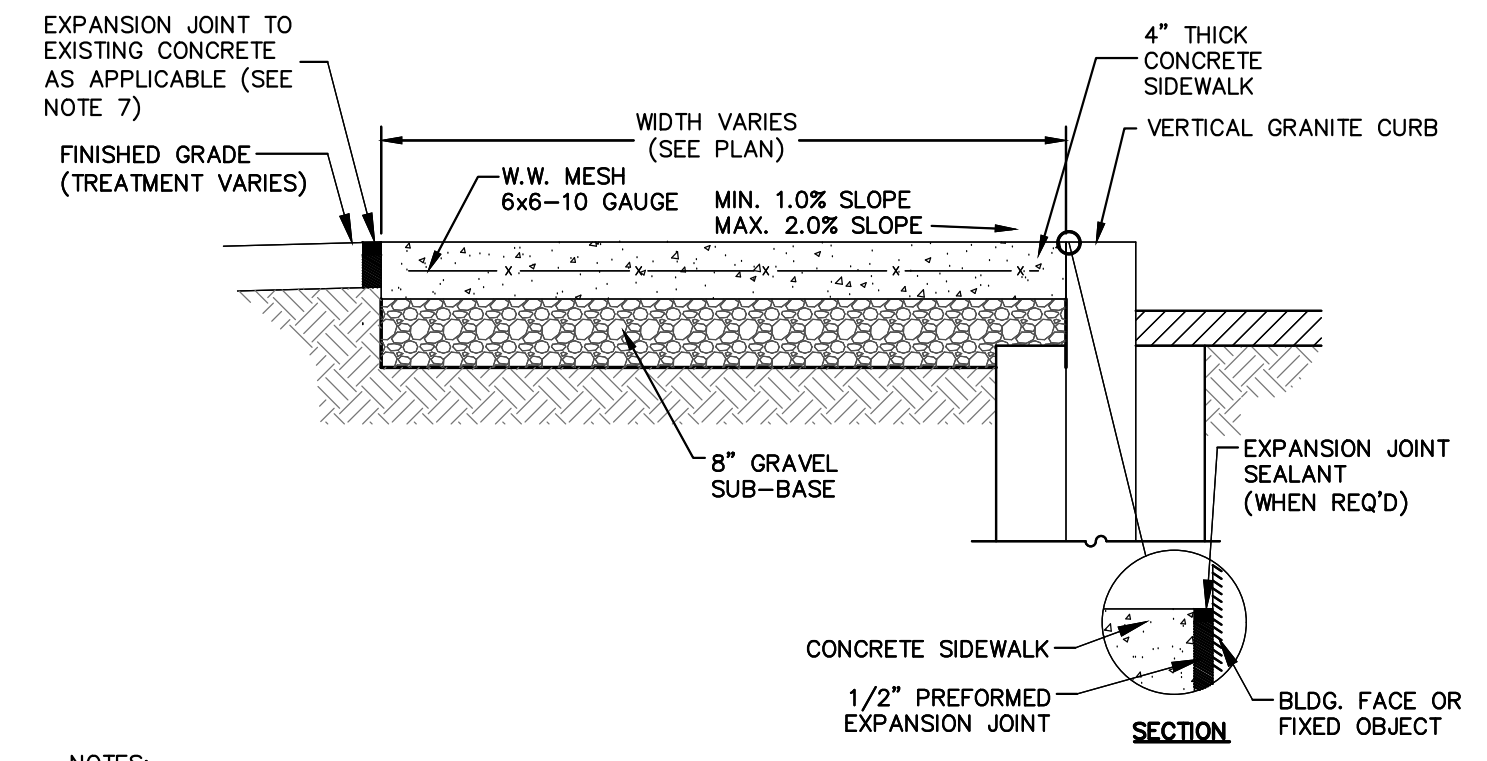
REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

JOB NO: 0233681.02  
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SCALE: AS SHOWN  
DESIGNED BY: JC  
DRAWN BY: MB  
CHECKED BY: SK  
FILENAME: 0233681.02 C-90X.dwg  
DRAWING TITLE:  
**CIVIL DETAILS 1**  
DRAWING NO:  
**C-900**

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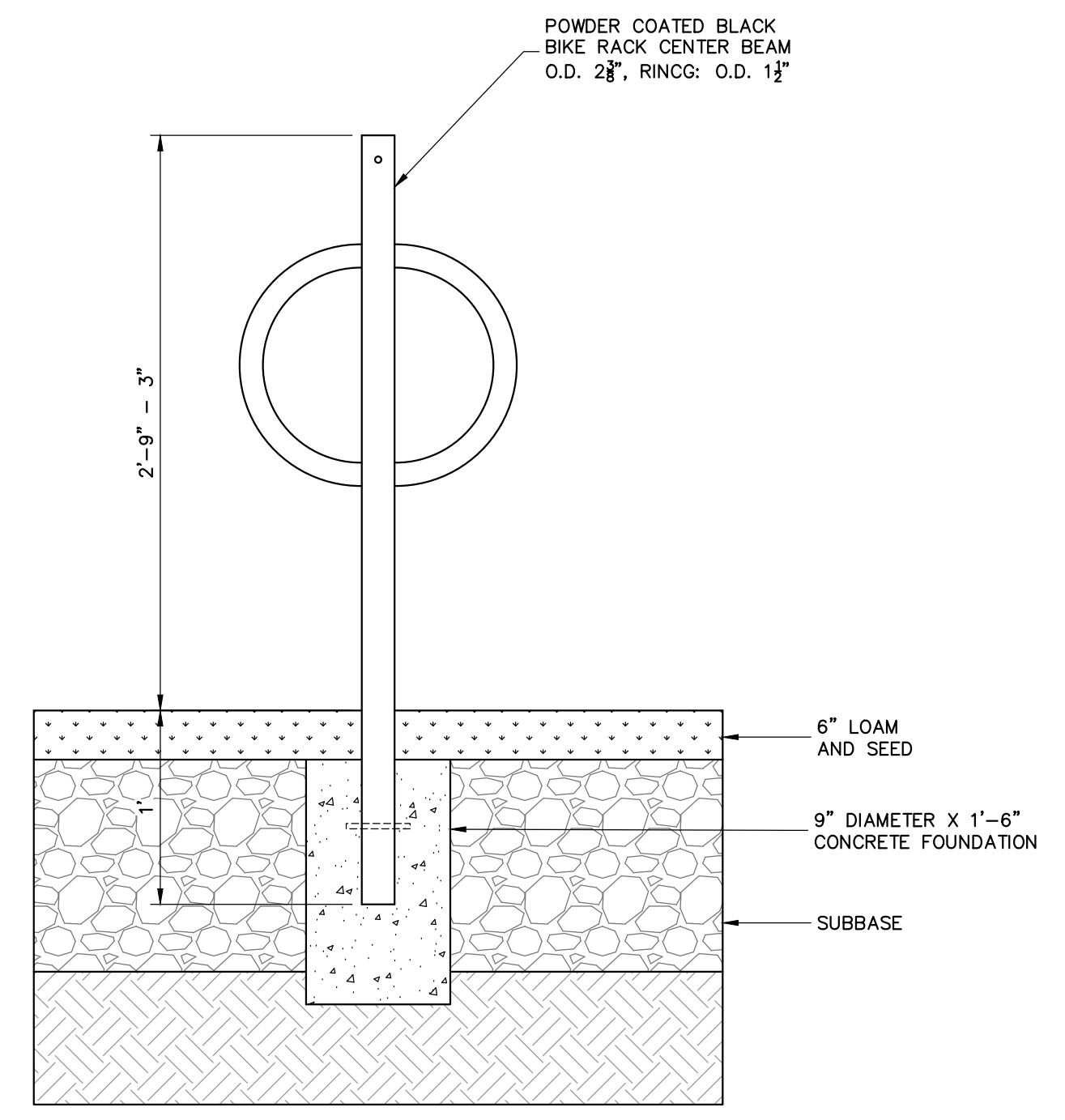


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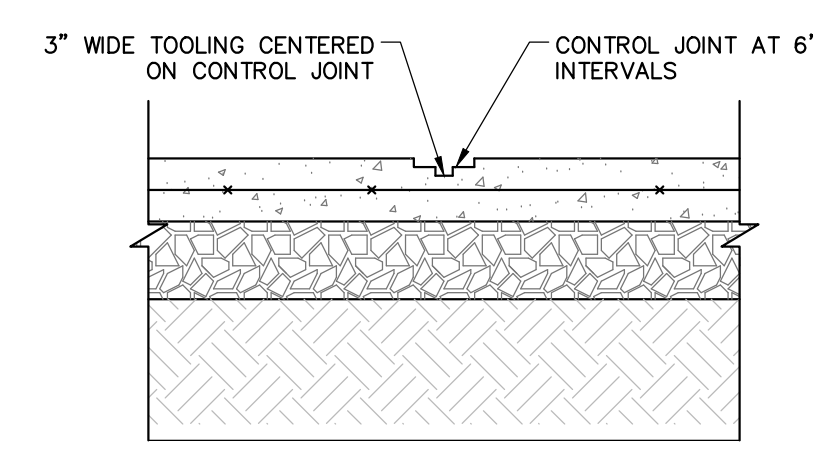
- NOTES:**
1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-MOLDED JOINT FILLER.
  2. PROVIDE CONTROL JOINTS AT 6' O.C.
  3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
  4. CEMENT CONCRETE SHALL BE 4000 PSI-TYPE II.
  5. EXISTING GRAVEL SUB-BASE TO REMAIN IN AREAS WHERE NO TRENCHING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

**TYPICAL CEMENT CONCRETE SIDEWALK DETAIL**  
NOT TO SCALE

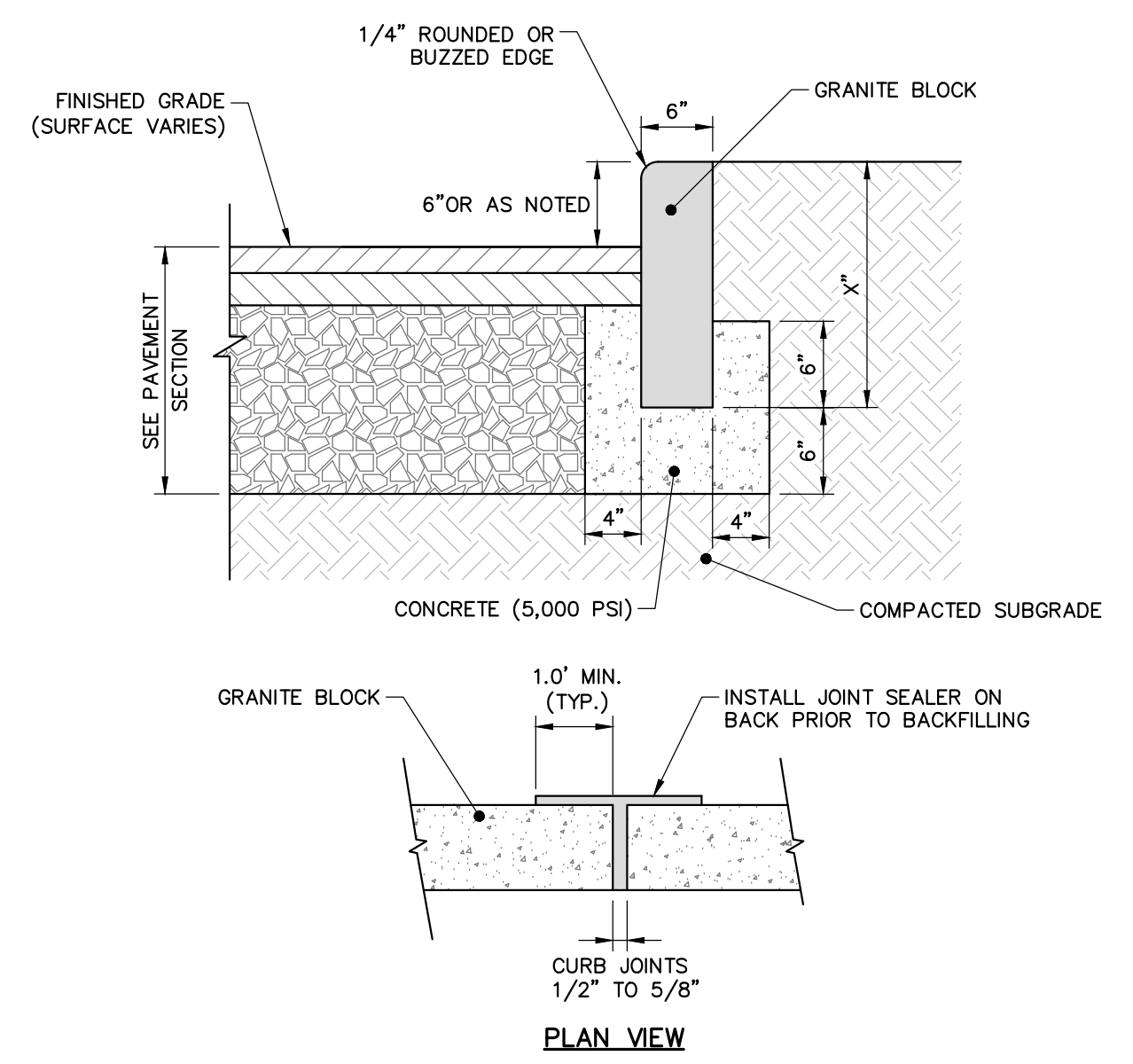


- NOTES:**
1. TWO (2) BICYCLE PARKING SPACE ARE BEING PROVIDED PER THE TOWN OF SCITUATE REGULATIONS. SEE PLANS FOR BICYCLE PARKING SPACES.

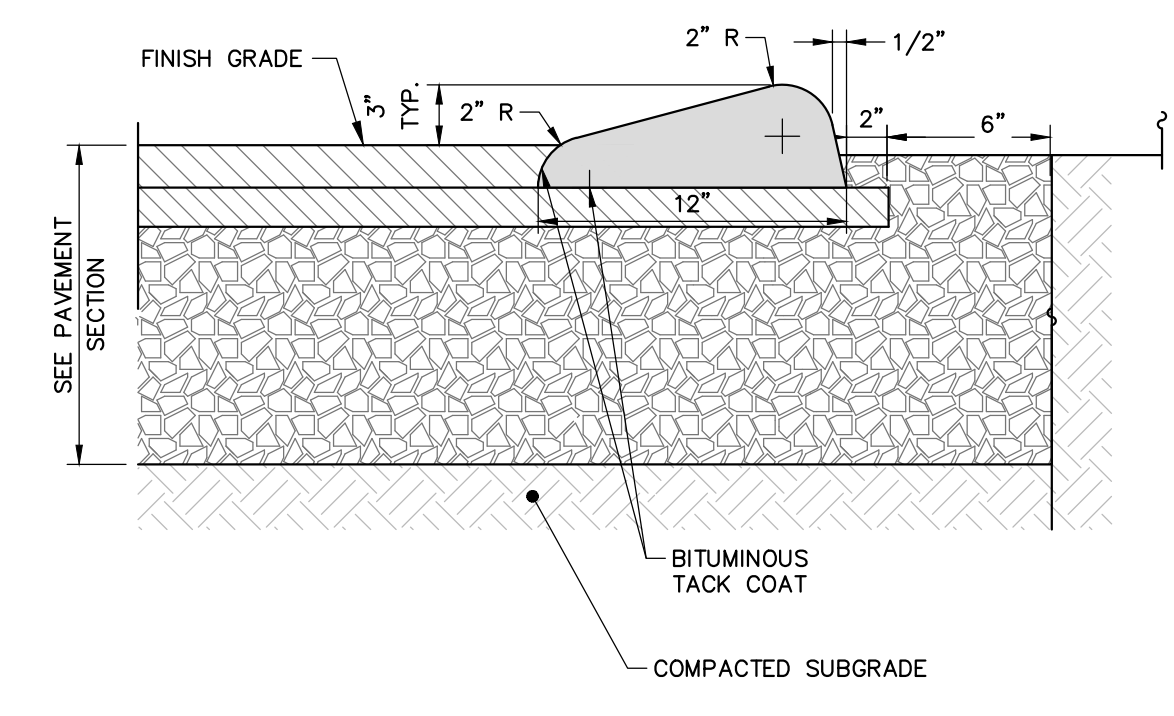
**BICYCLE PARKING SPACES**  
NOT TO SCALE



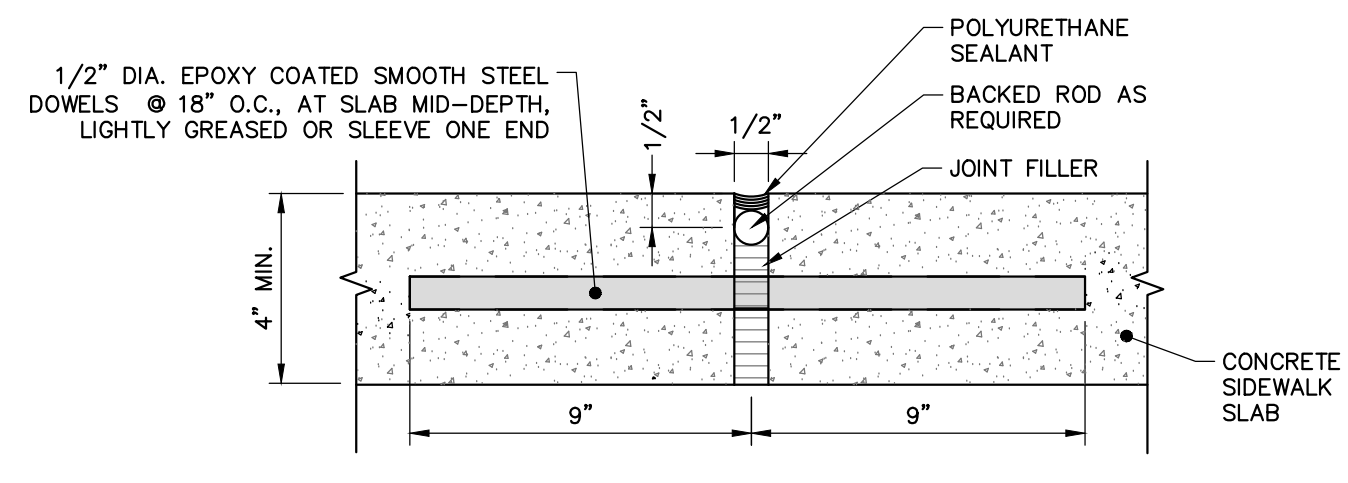
**SIDEWALK CONTROL JOINT**  
NOT TO SCALE



**VERTICAL GRANITE CURB**  
NOT TO SCALE

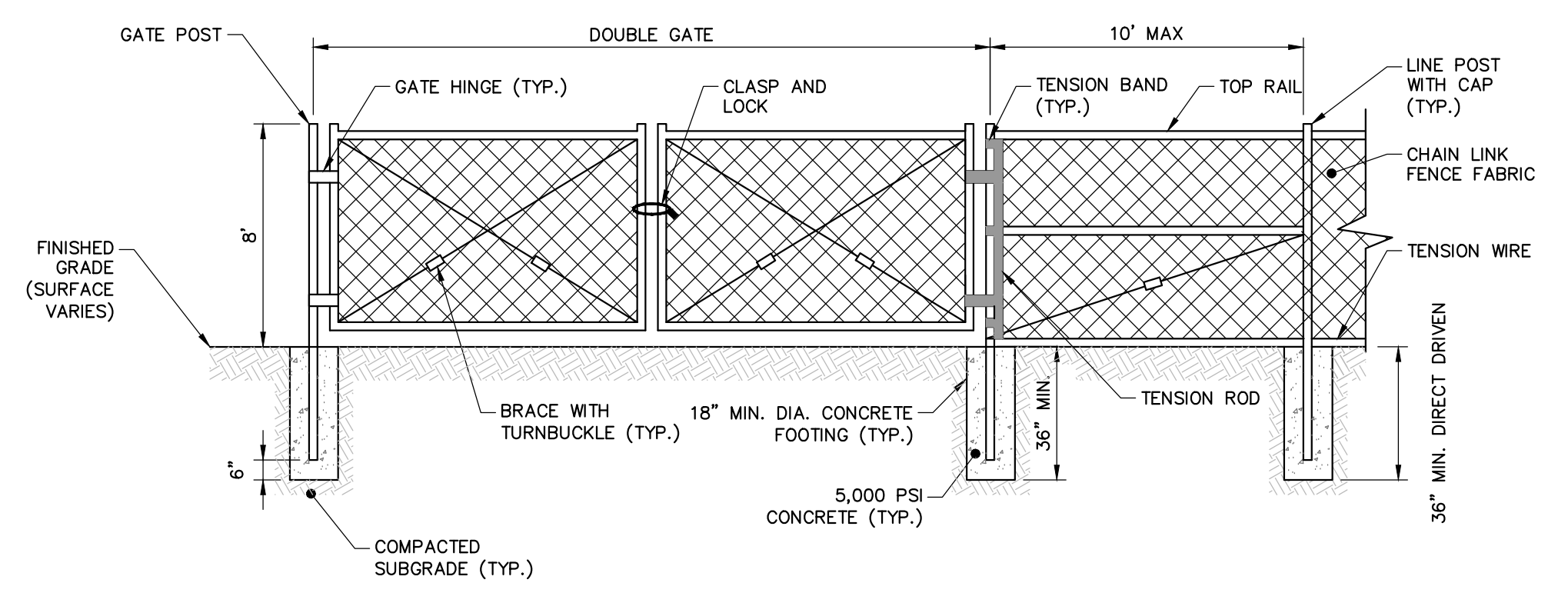


**BITUMINOUS CAPE COD BERM**  
NOT TO SCALE



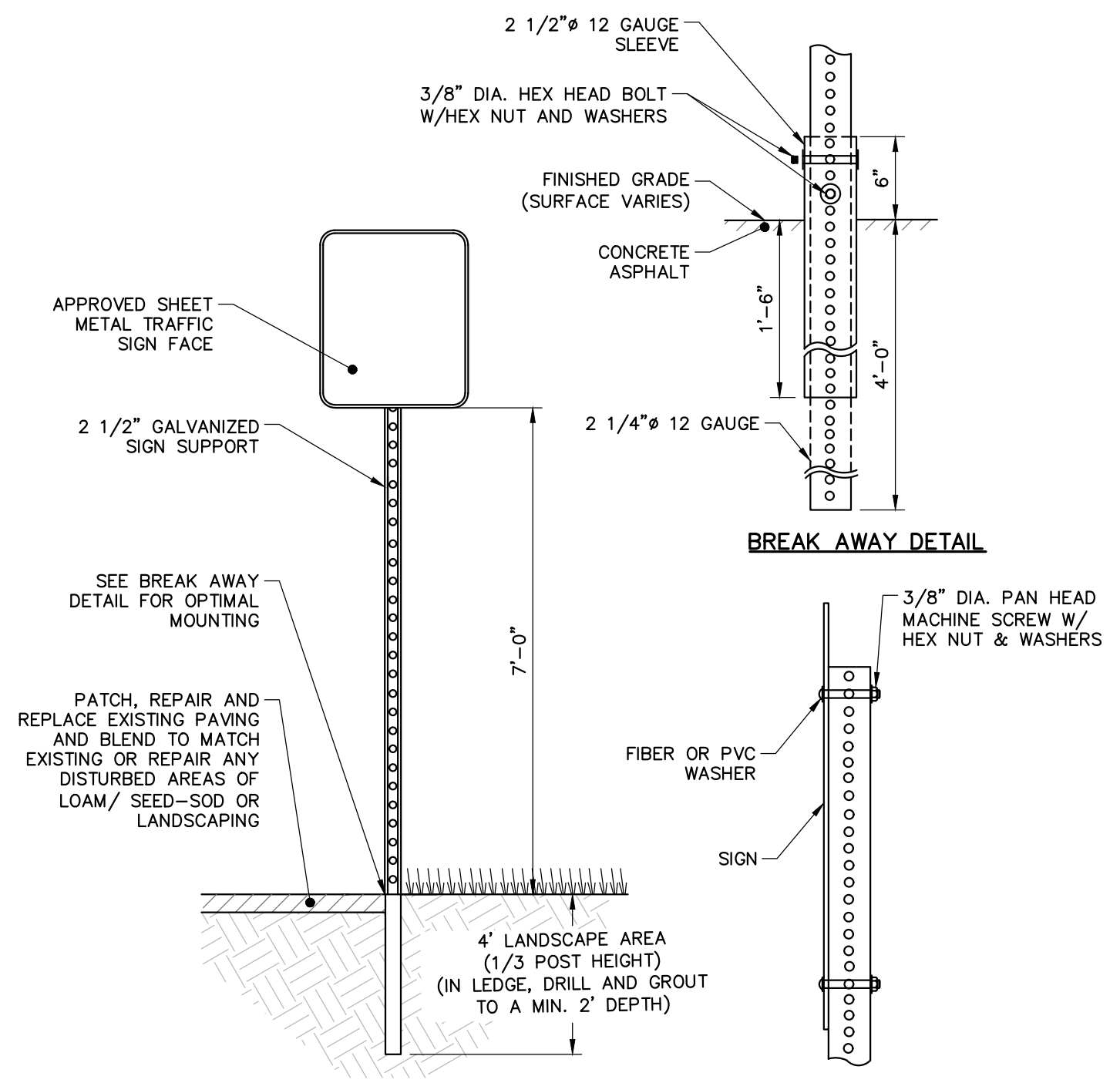
- NOTES:**
1. EXPANSION JOINTS SHALL BE 30' O.C.
  2. DISCONTINUE REINFORCING AT EACH SIDE OF JOINT.
  3. DOWELS SHALL BE CUT STRAIGHT AND DEBURRED.

**CONCRETE SIDEWALK EXPANSION JOINT**  
NOT TO SCALE



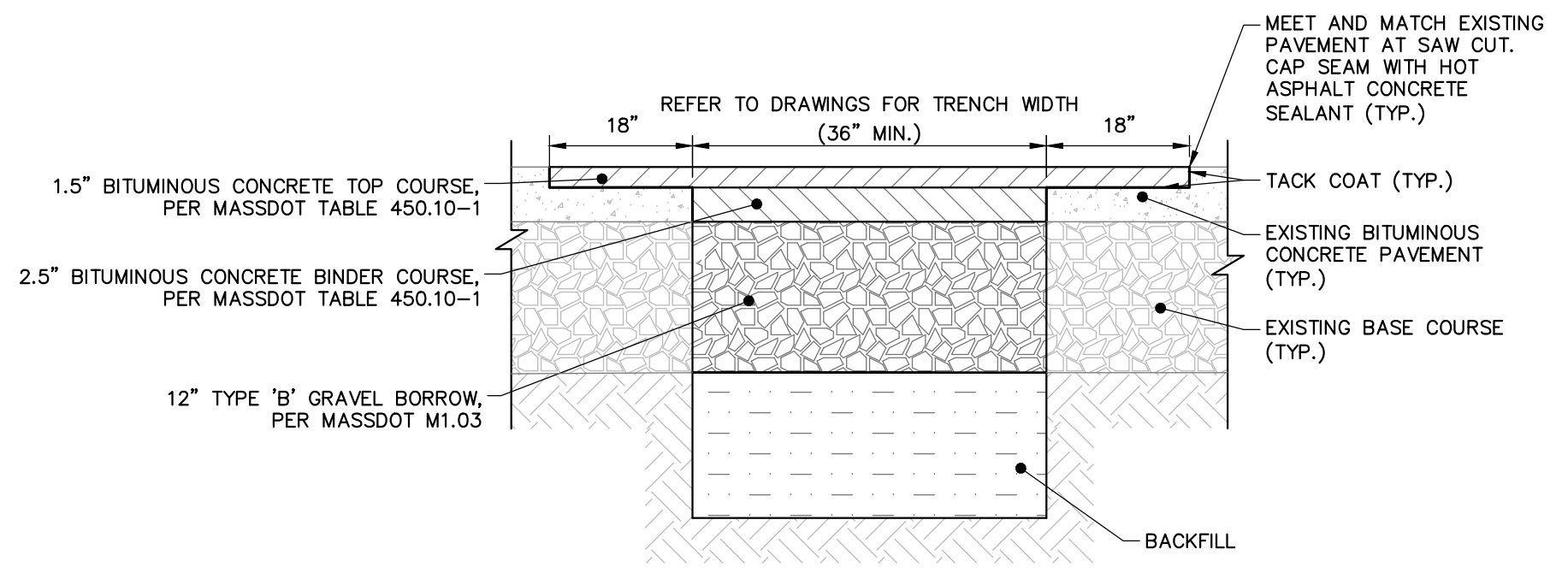
- NOTES:**
1. ALL FENCING AND HARDWARE TO BE LIST MATERIAL.
  2. INSTALL ALL FENCING AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**CHAIN LINK FENCE AND GATE**  
NOT TO SCALE

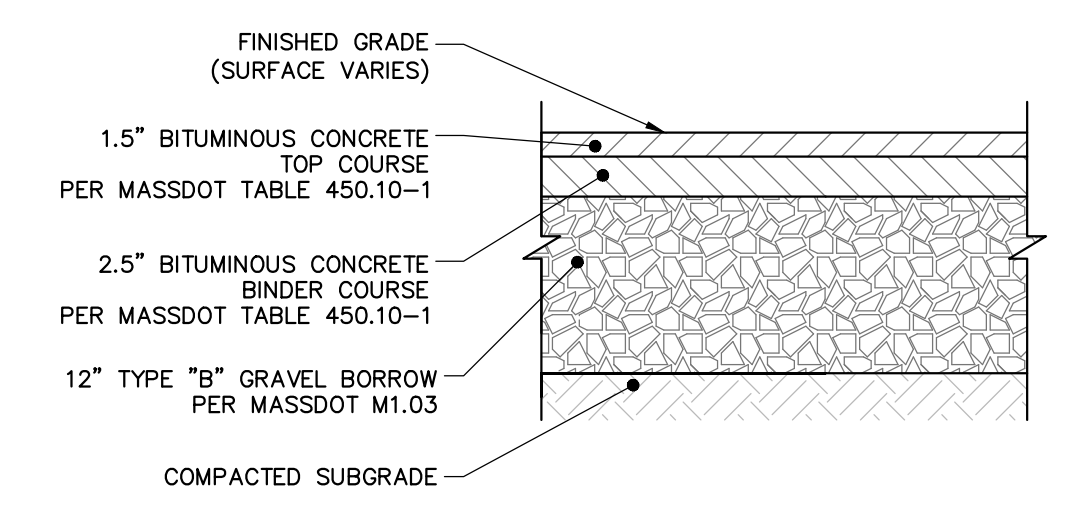


- NOTES:**
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
  2. FOR USE WITH MUTCD "STOP" AND "DO NOT ENTER" SIGNS.

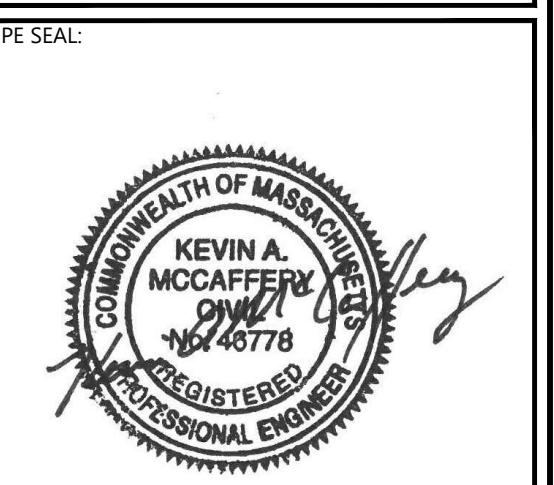
**TRAFFIC SIGN POST**  
NOT TO SCALE



**PERMANENT TRENCH REPAIR FOR PUBLIC ROADS**  
NOT TO SCALE



**BITUMINOUS CONCRETE PAVEMENT SECTION**  
NOT TO SCALE



**ISSUE FOR PERMIT**

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

STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

REV	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

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

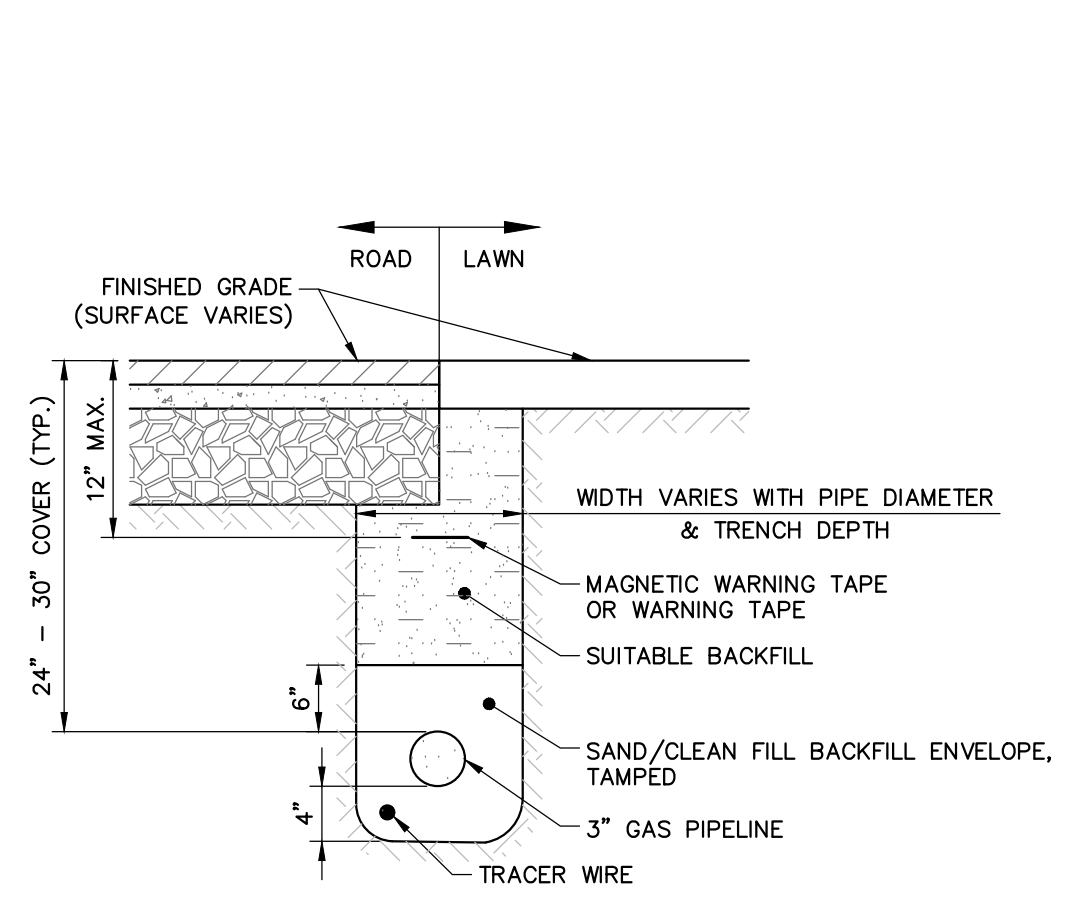
**CIVIL DETAILS 2**

DRAWING NO:  
**C-901**

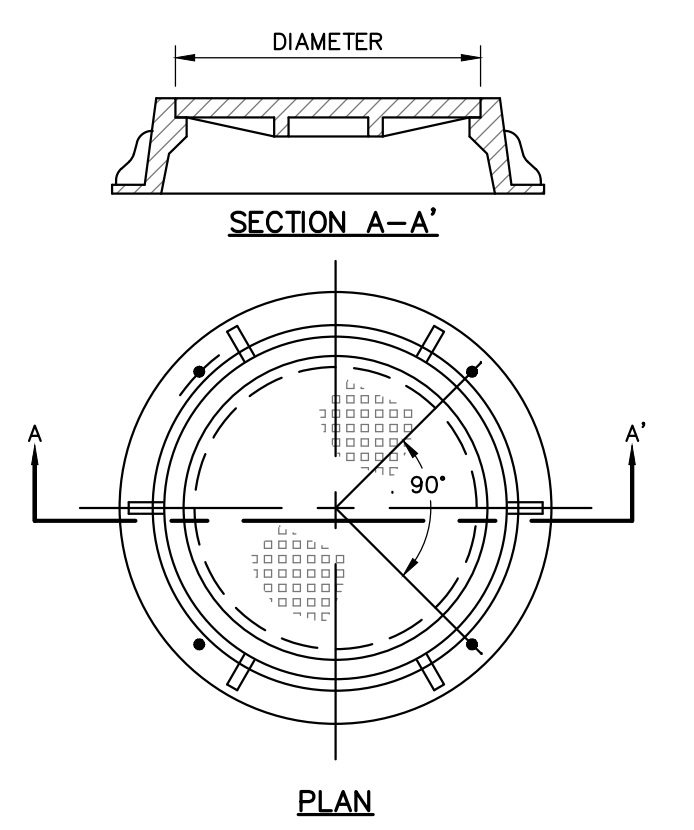
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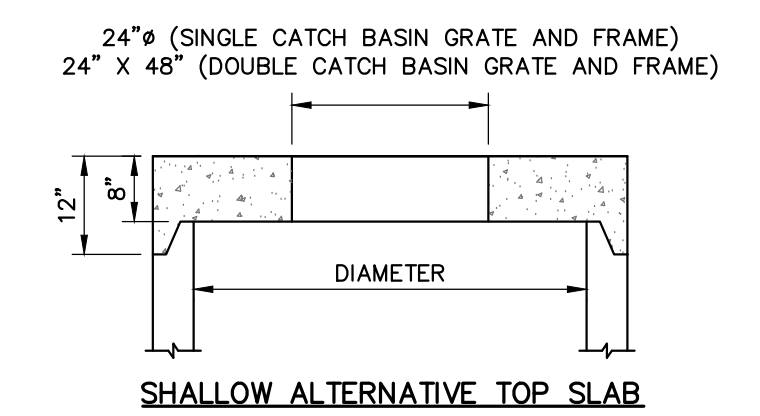
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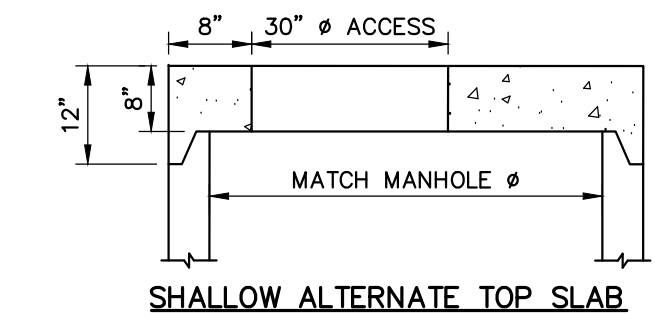
**GAS PIPE TRENCH**  
NOT TO SCALE



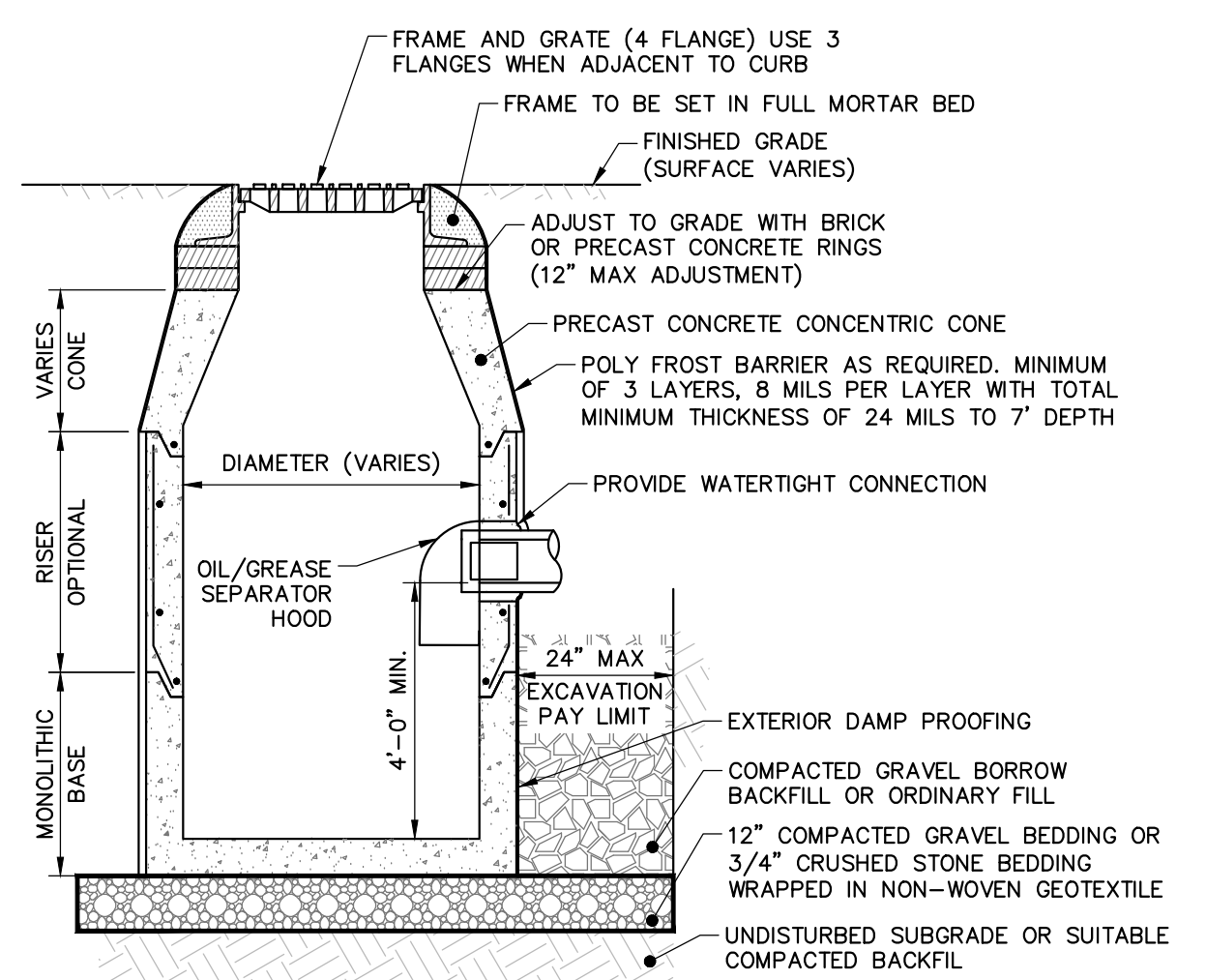
**MANHOLE FRAME AND COVER**  
NOT TO SCALE



**SHALLOW ALTERNATIVE TOP SLAB**



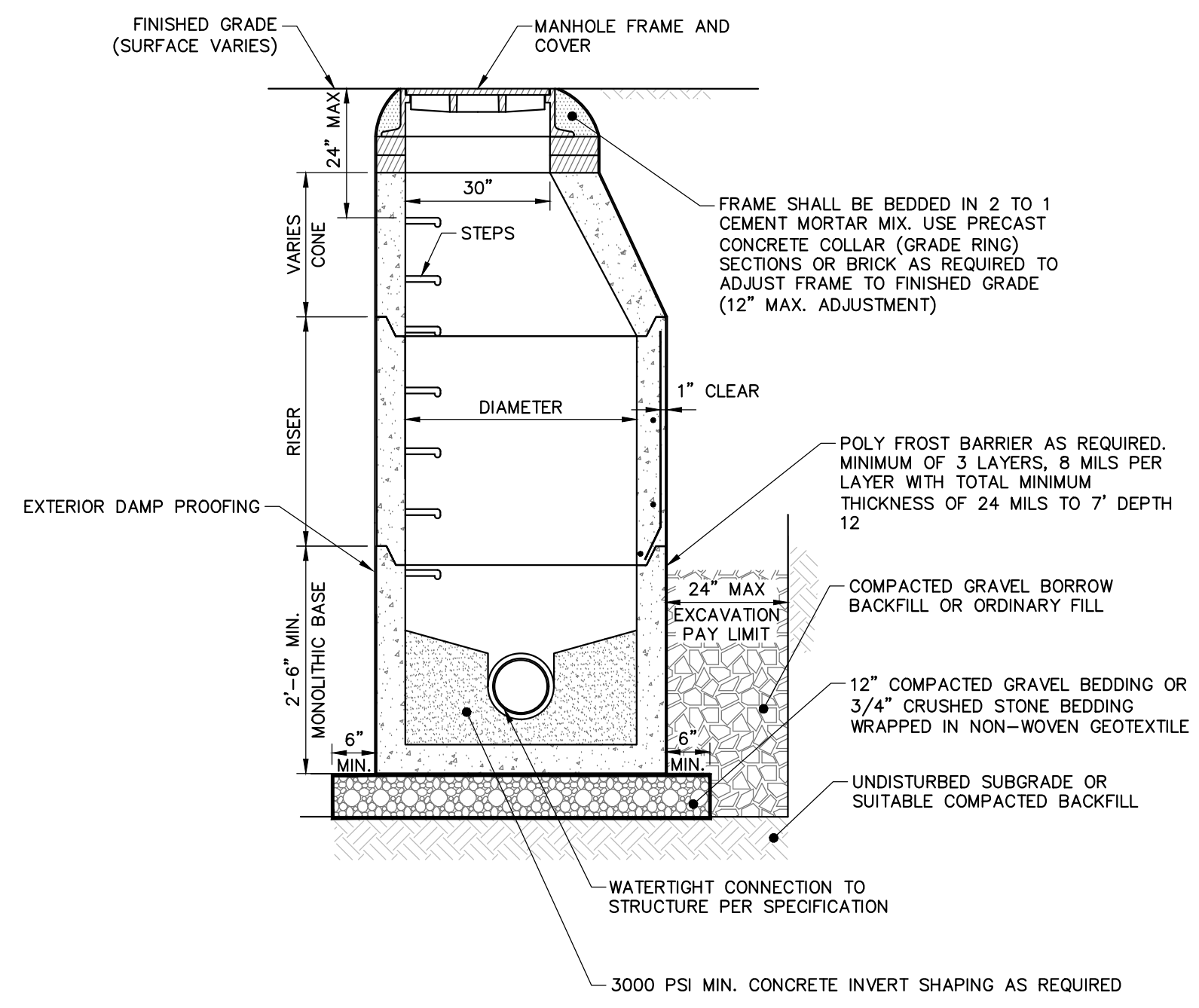
**SHALLOW ALTERNATE TOP SLAB**



**NOTES:**

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

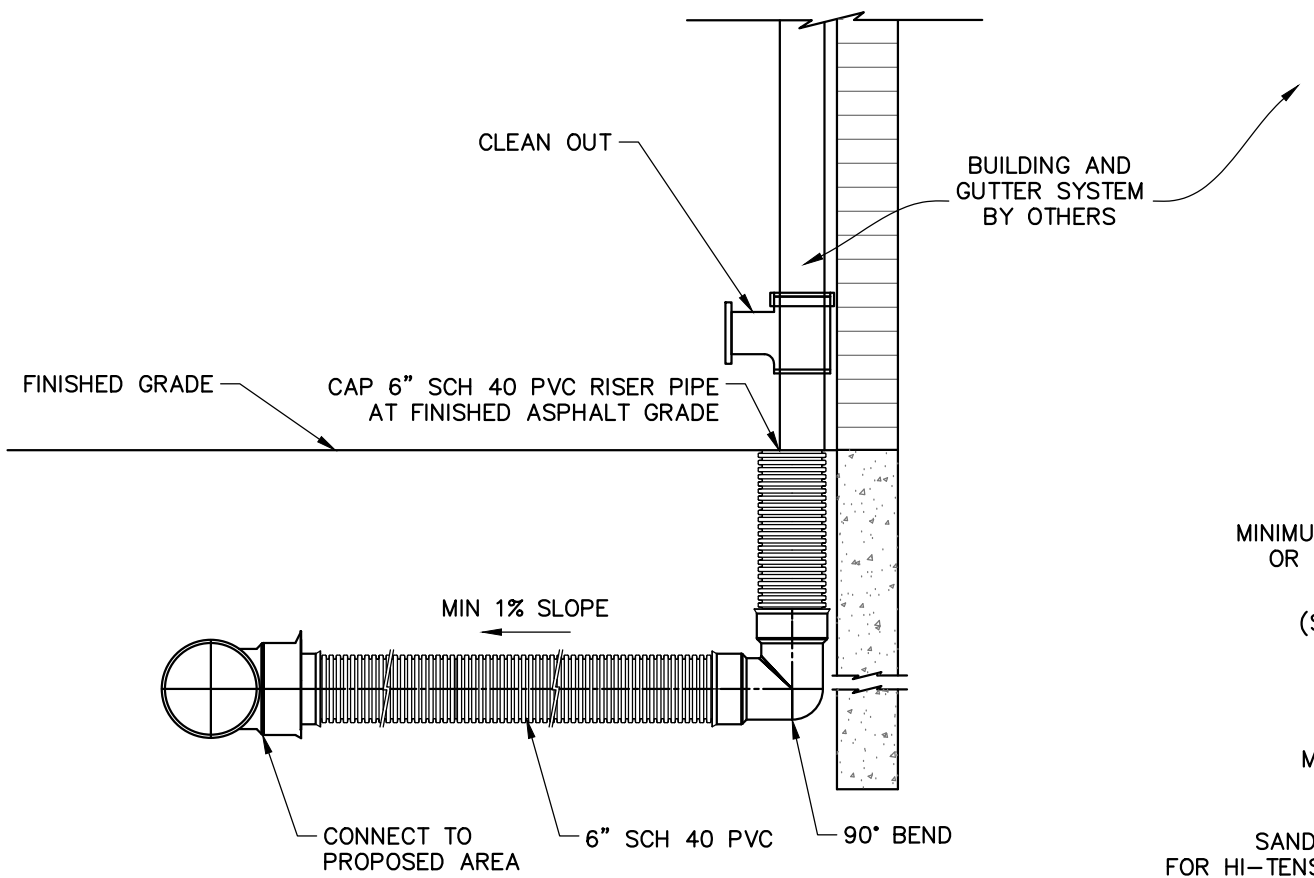
**PRECAST CONCRETE CATCH BASIN**  
NOT TO SCALE



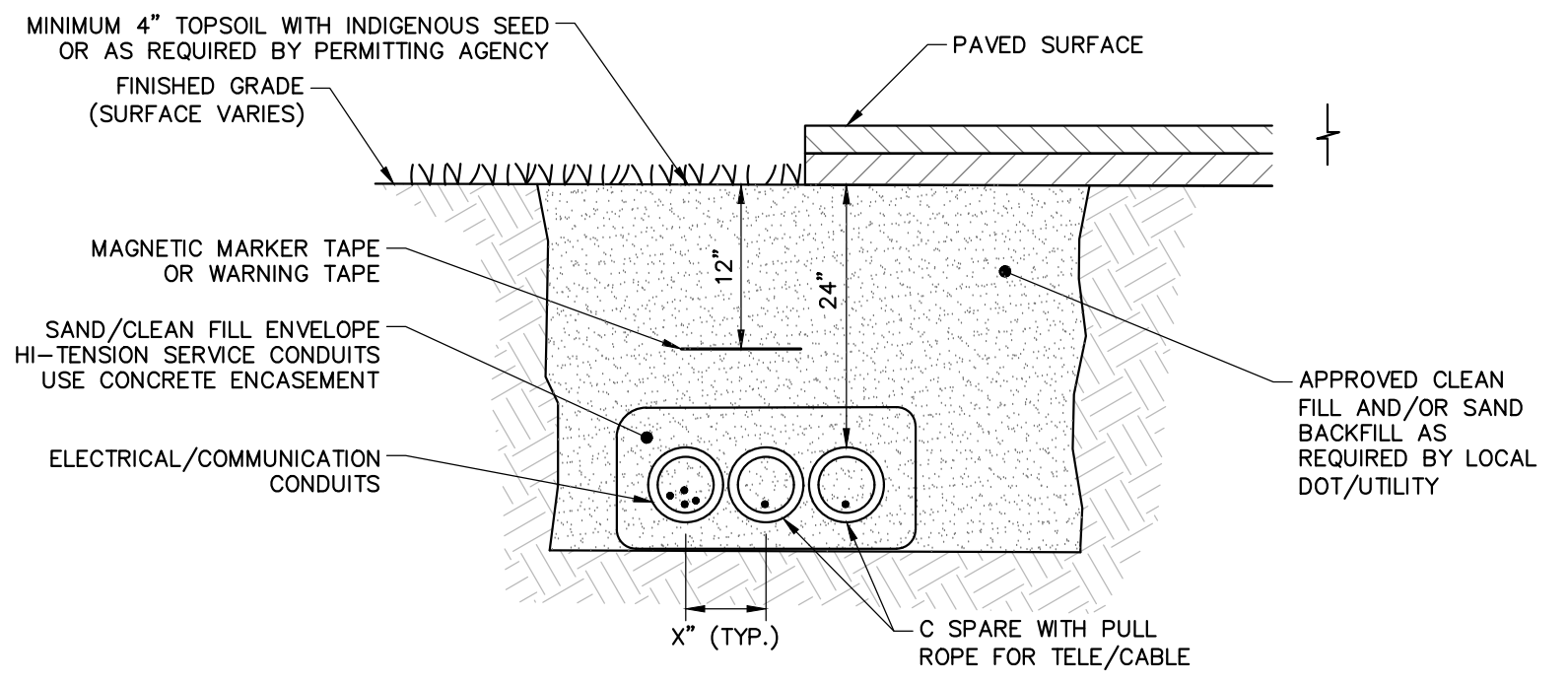
**NOTES:**

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

**PRECAST CONCRETE DRAINAGE MANHOLE**  
NOT TO SCALE



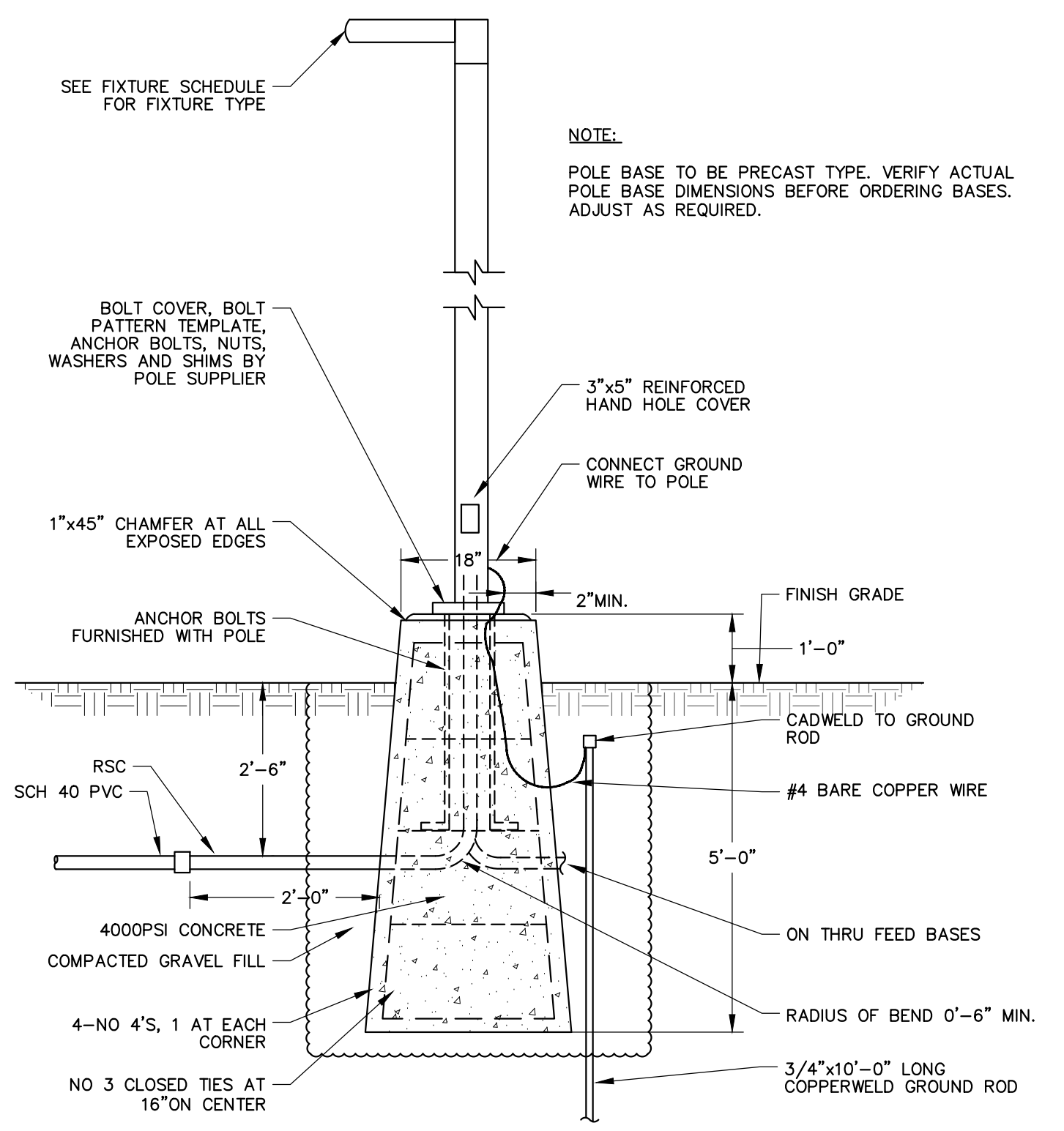
**ROOF DRAIN LEADER CONNECTION**  
NOT TO SCALE



**UNDERDRAIN**  
NOT TO SCALE

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

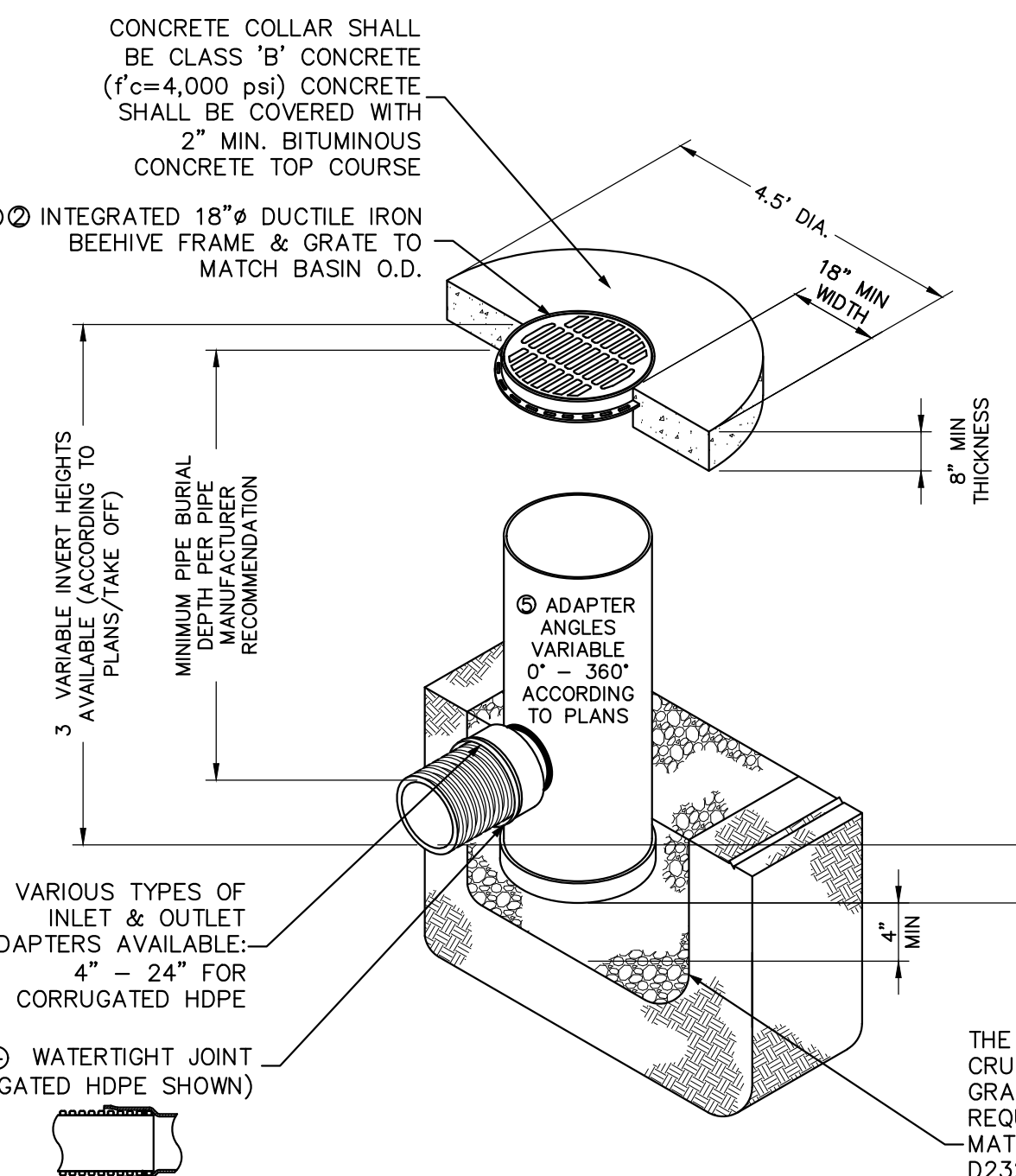
**ELECTRIC AND COMMUNICATIONS TRENCH**  
NOT TO SCALE



**NOTE:**

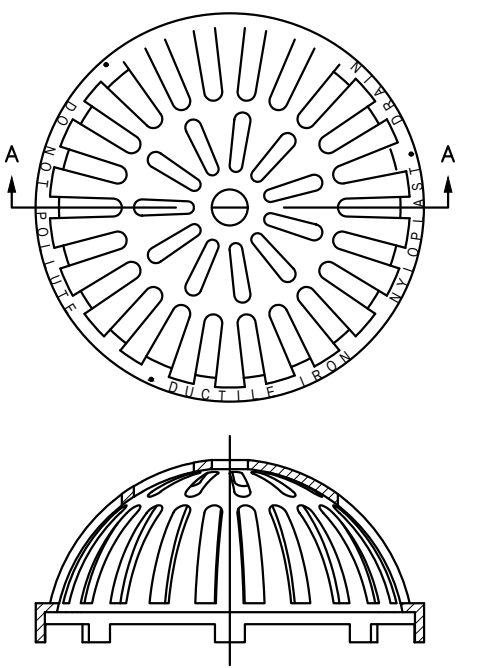
POLE BASE TO BE PRECAST TYPE. VERIFY ACTUAL POLE BASE DIMENSIONS BEFORE ORDERING BASES. ADJUST AS REQUIRED.

**LIGHT POLE BASE**  
NOT TO SCALE

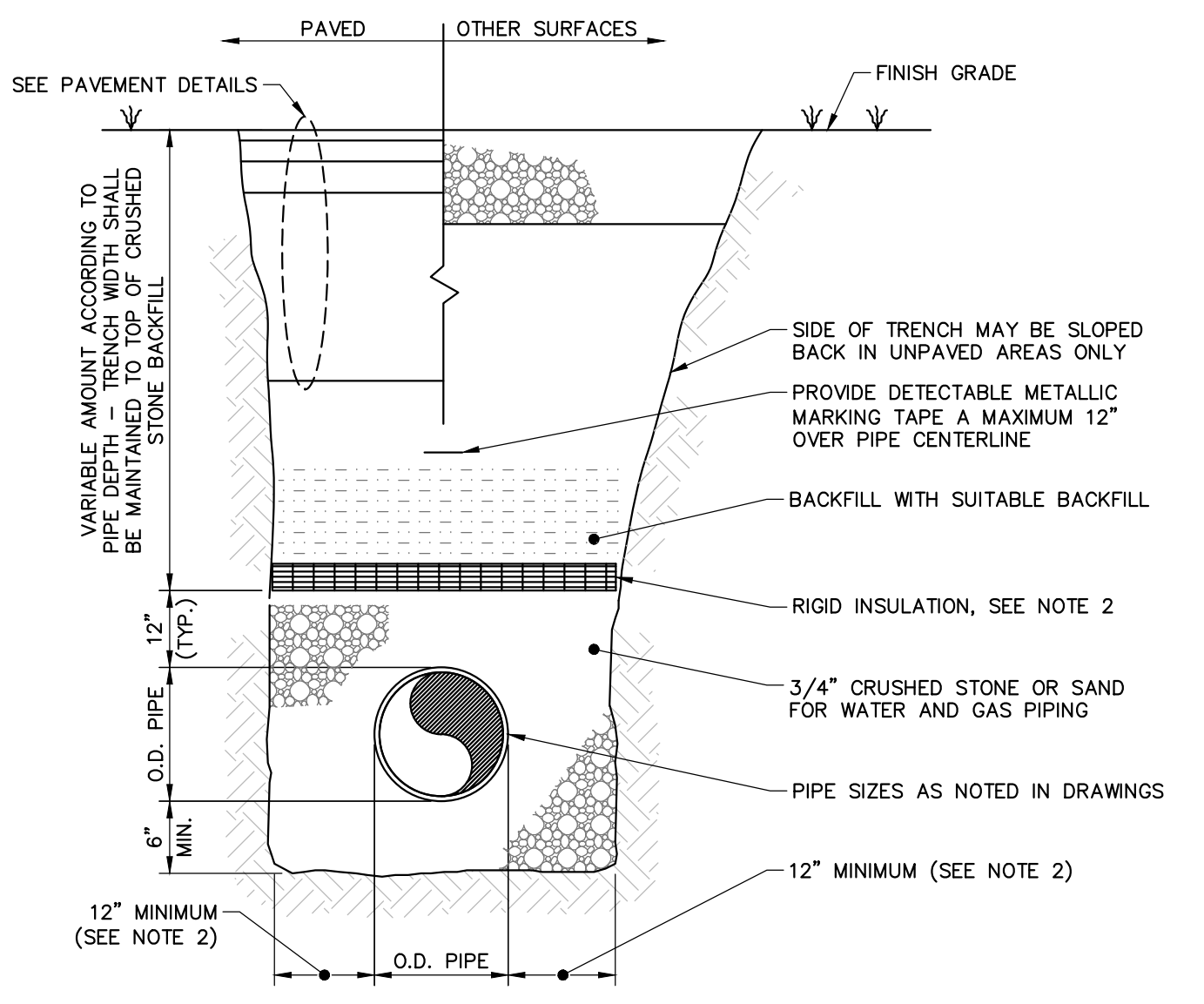


**NYLOPLAST AREA DRAIN**  
NOT TO SCALE

- NOTES:**
1. GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
  2. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
  3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL, OR EQUAL) & SDR 35 PVC ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°.
  4. VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 24" FOR CORRUGATED HDPE
  5. WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)
  6. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.



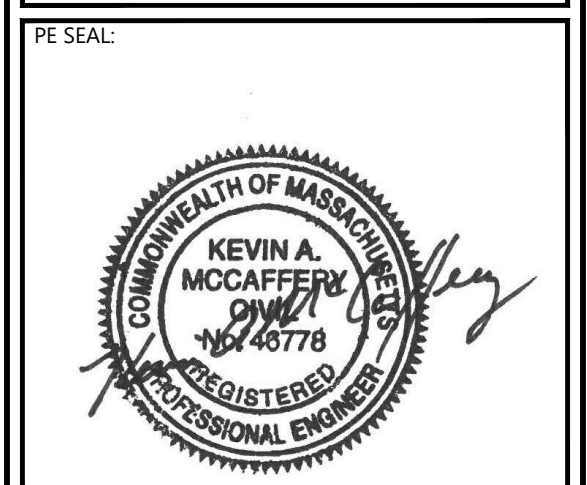
**BEEHIVE GRATE**  
NOT TO SCALE



**NOTES:**

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

**SINGLE PIPE TRENCH**  
NOT TO SCALE



**ISSUE FOR PERMIT**

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

STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

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

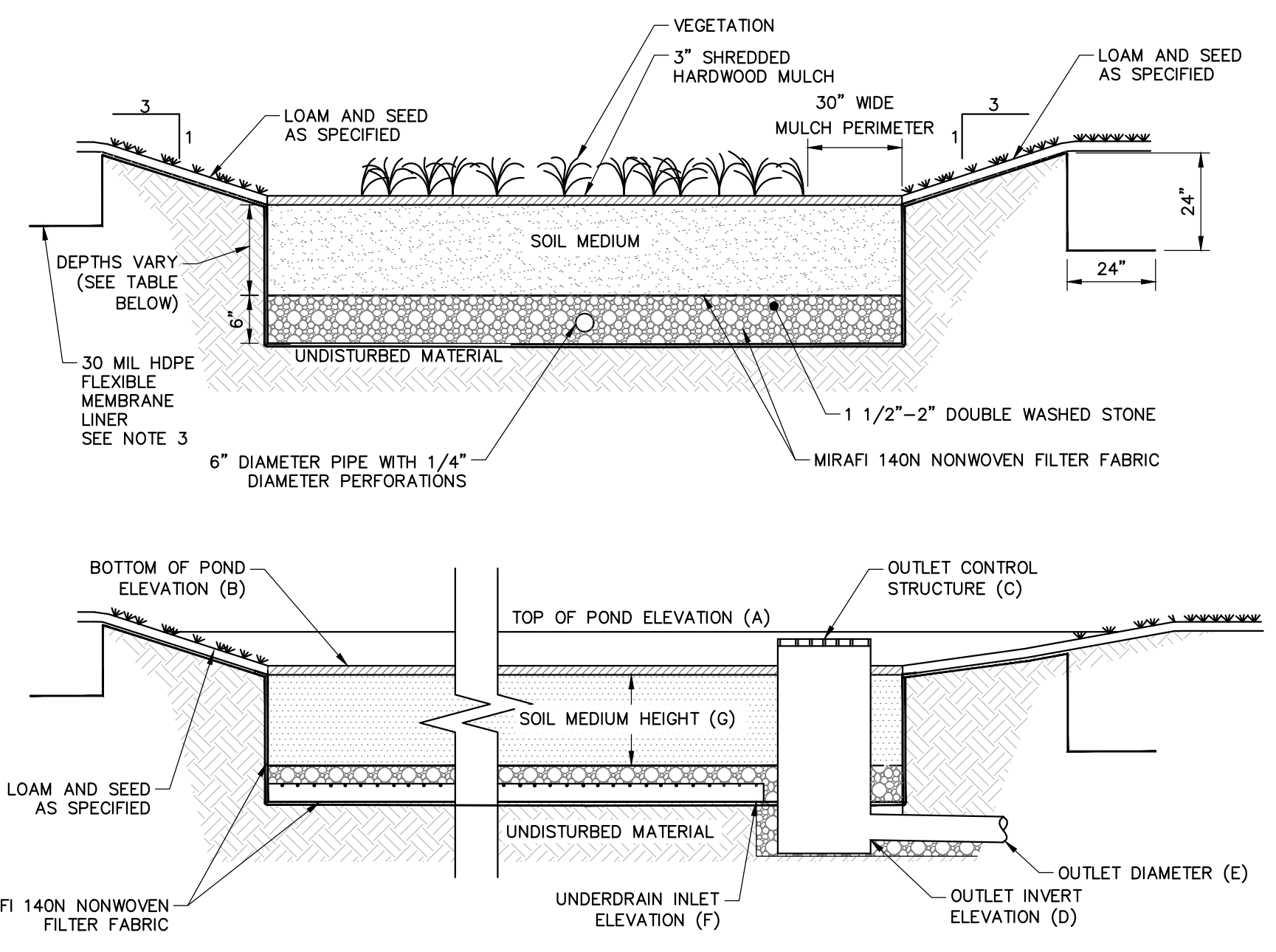
**CIVIL DETAILS 3**

DRAWING NO:  
**C-902**

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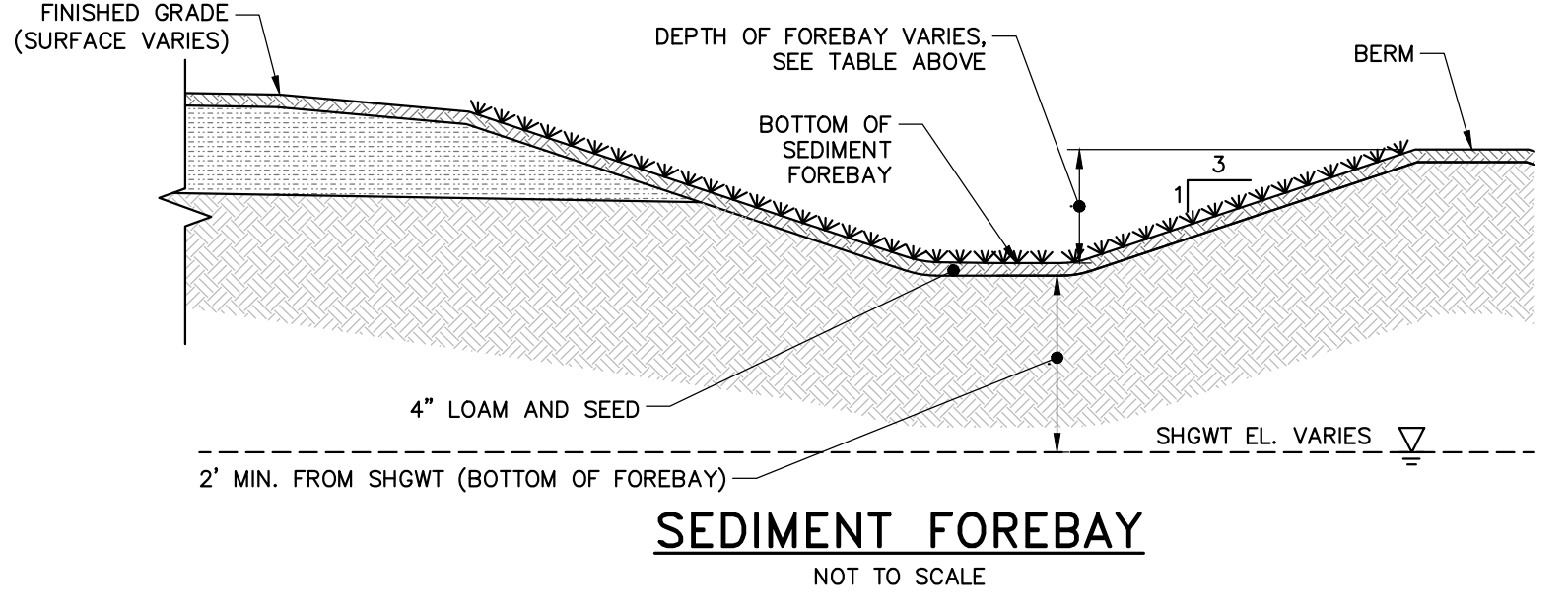
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BIO-RETENTION POND SCHEDULE				
COMPONENT	1P	2P	5P	8P
TOP OF POND EL. (A)	78.00	71.00	75.00	70.00
BOTTOM OF POND EL. (B)	76.00	69.50	73.00	69.00
OUTLET CONTROL STRUCTURE EL. (C)	77.15	N/A	73.44	N/A
OUTLET INVERT EL. (D)	71.75	N/A	70.33	66.00
OUTLET DIAMETER (E)	12"	N/A	24"	6"
UNDERDRAIN INVERT EL. (F)	N/A	N/A	70.33	66.00
SOIL MEDIUM HEIGHT (G)	30"	30"	24"	28"
BOTTOM OF SOIL MEDIUM EL.	73.33	66.83	70.83	66.50
1-YEAR STORM EL.	76.19	70.18	73.26	66.49
2-YEAR STORM EL.	76.57	70.24	73.55	66.60
10-YEAR STORM EL.	77.19	70.34	73.71	66.96
100-YEAR STORM EL.	77.48	70.50	73.97	68.81
APPROX. SHGW EL.	68.33	61.00	64.33	67.33

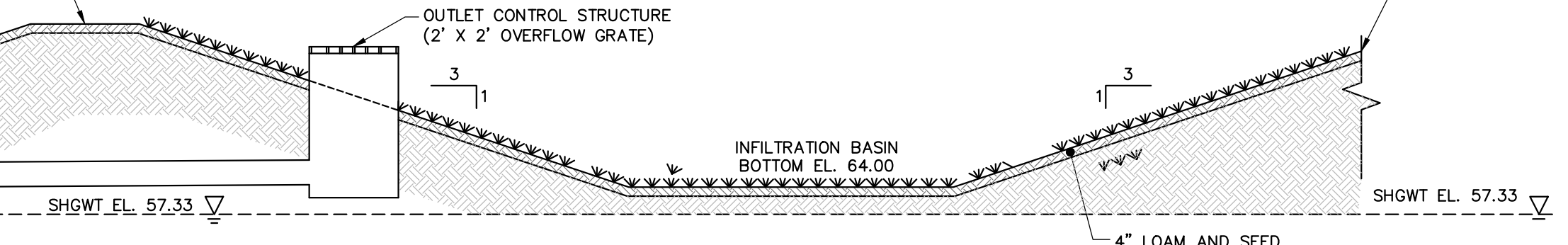
- NOTES:
- IF UNSUITABLE MATERIAL IS OBSERVED BELOW THE POND DEPTH, AT A MINIMUM IT SHALL BE REMOVED TO A DEPTH OF TWO FEET AND REPLACED WITH CLEAN SAND AND THE ENGINEER SHOULD BE NOTIFIED.
  - SOIL WITHIN BIO-RETENTION AREA TO BE PLACED, DO NOT COMPACT, LIFTS TO BE LIGHTLY WATERED TO ENCOURAGE NATURAL COMPACTION.
  - FLEXIBLE MEMBRANE LINER PROPOSED SOLELY FOR BIO-RETENTION POND 8P.

SEDIMENT FOREBAY ELEVATIONS									
POND	1-YEAR STORM EL.	2-YEAR STORM EL.	10-YEAR STORM EL.	100-YEAR STORM EL.	APPROX. SHGW EL.	BERM EL.	FINISHED GRADE EL.	SEDIMENT FOREBAY BOTTOM EL.	SEDIMENT FOREBAY DEPTH (FT)
3P	76.22	76.25	76.36	76.54	63.42	76.00	77.00	74.00	2.00
6P	78.77	78.80	78.86	78.99	55.50	78.60	79.00	77.00	1.60
9P	71.66	71.70	71.79	71.97	58.83	71.50	72.00	70.00	1.50
10P	70.13	70.16	70.22	70.33	68.50	70.00	71.00	69.00	1.00

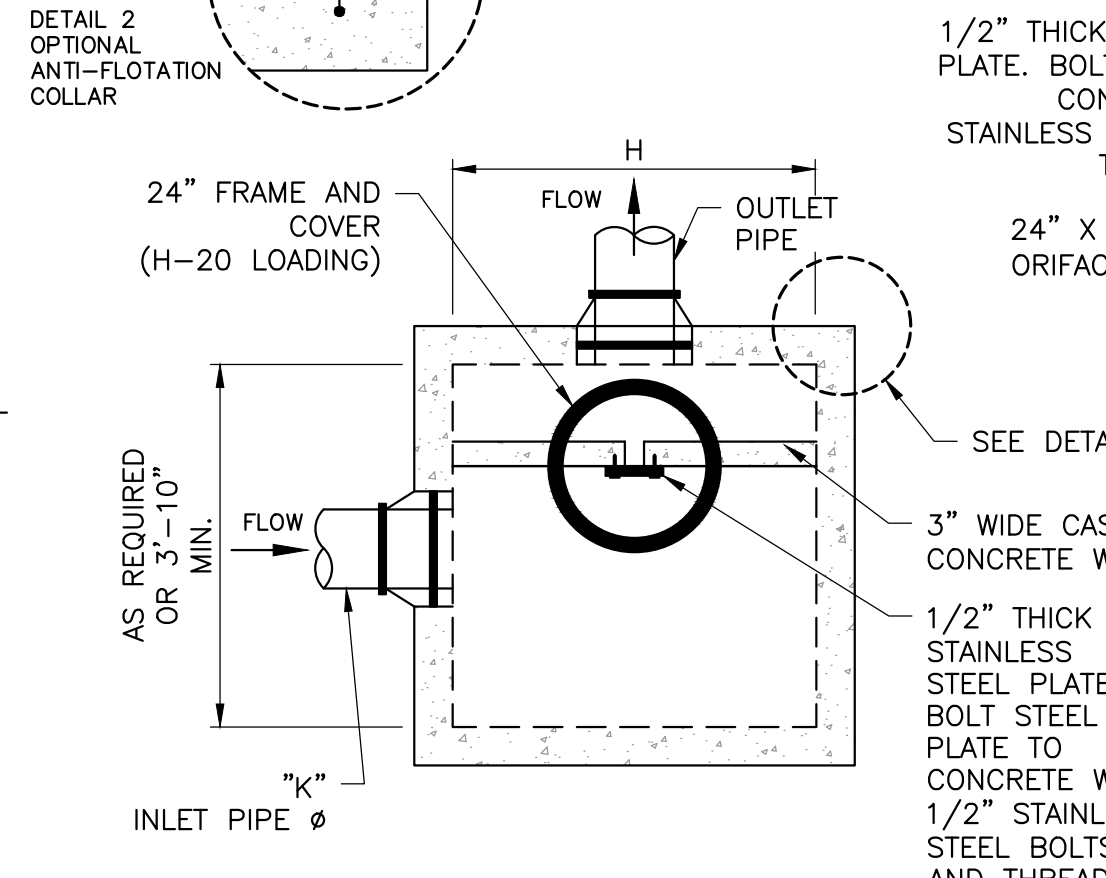
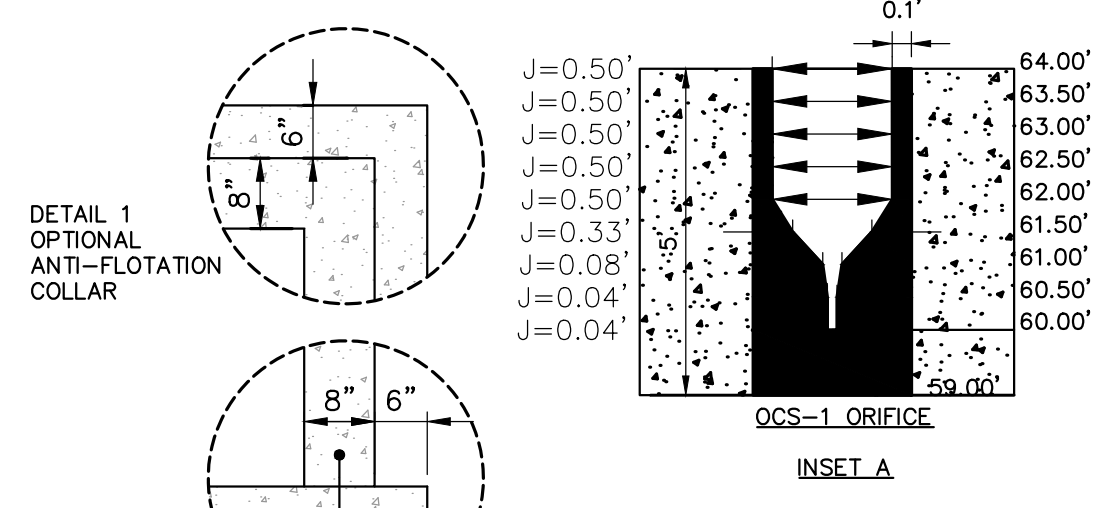


**BIORETENTION POND**  
NOT TO SCALE

INFILTRATION BASIN ELEVATIONS										
POND	1-YEAR STORM EL.	2-YEAR STORM EL.	10-YEAR STORM EL.	100-YEAR STORM EL.	OUTLET SIZE (IN.)	OUTLET INV.	ORIFICE SIZE (IN.)	ORIFICE INV.	BERM EL.	OUTLET CONTROL STRUCTURE EL.
4P	65.01	65.22	66.64	68.70	18	59	SEE DETAIL	SEE DETAIL	69.70	66.50

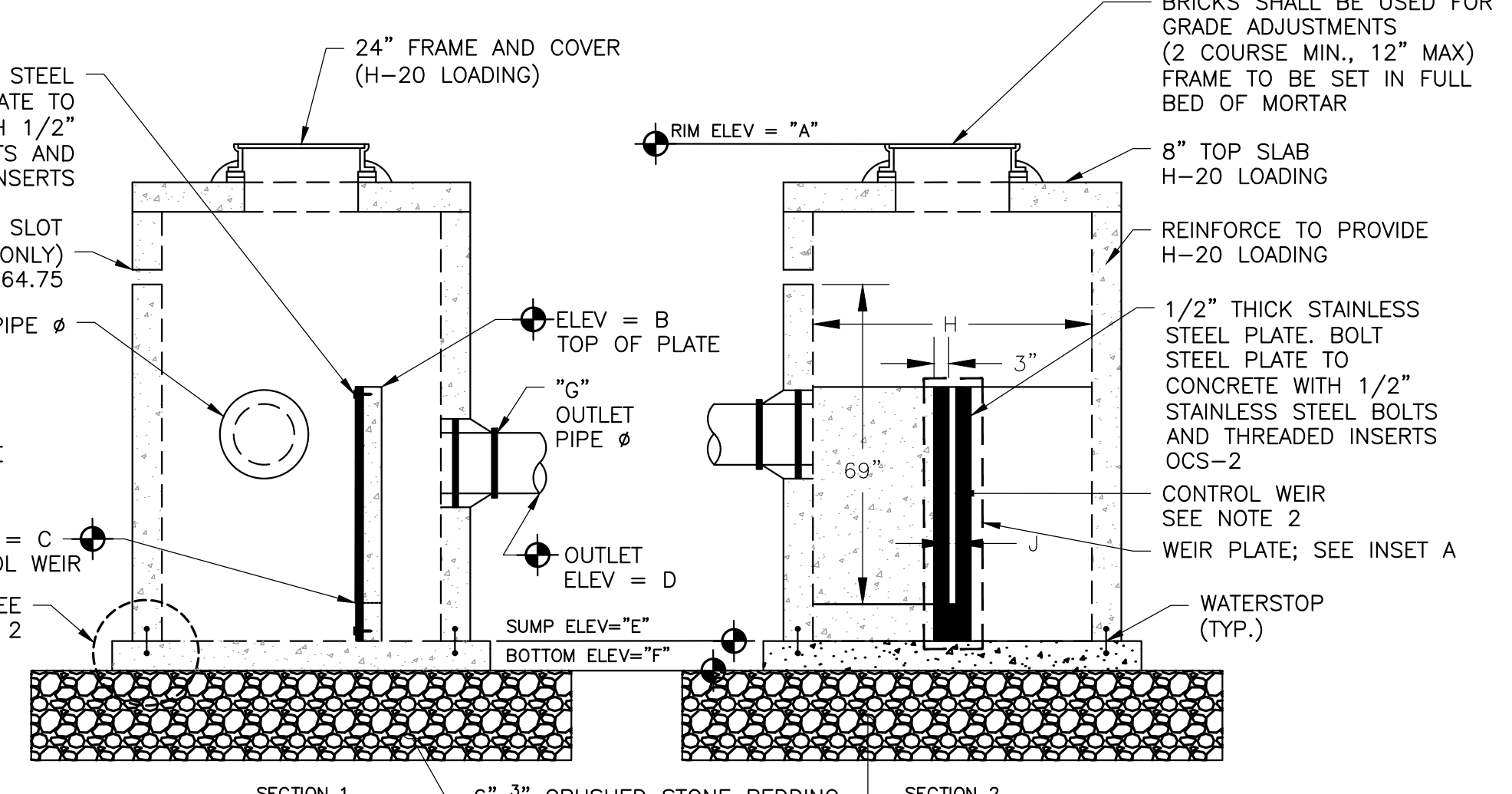


**INFILTRATION BASIN**  
NOT TO SCALE



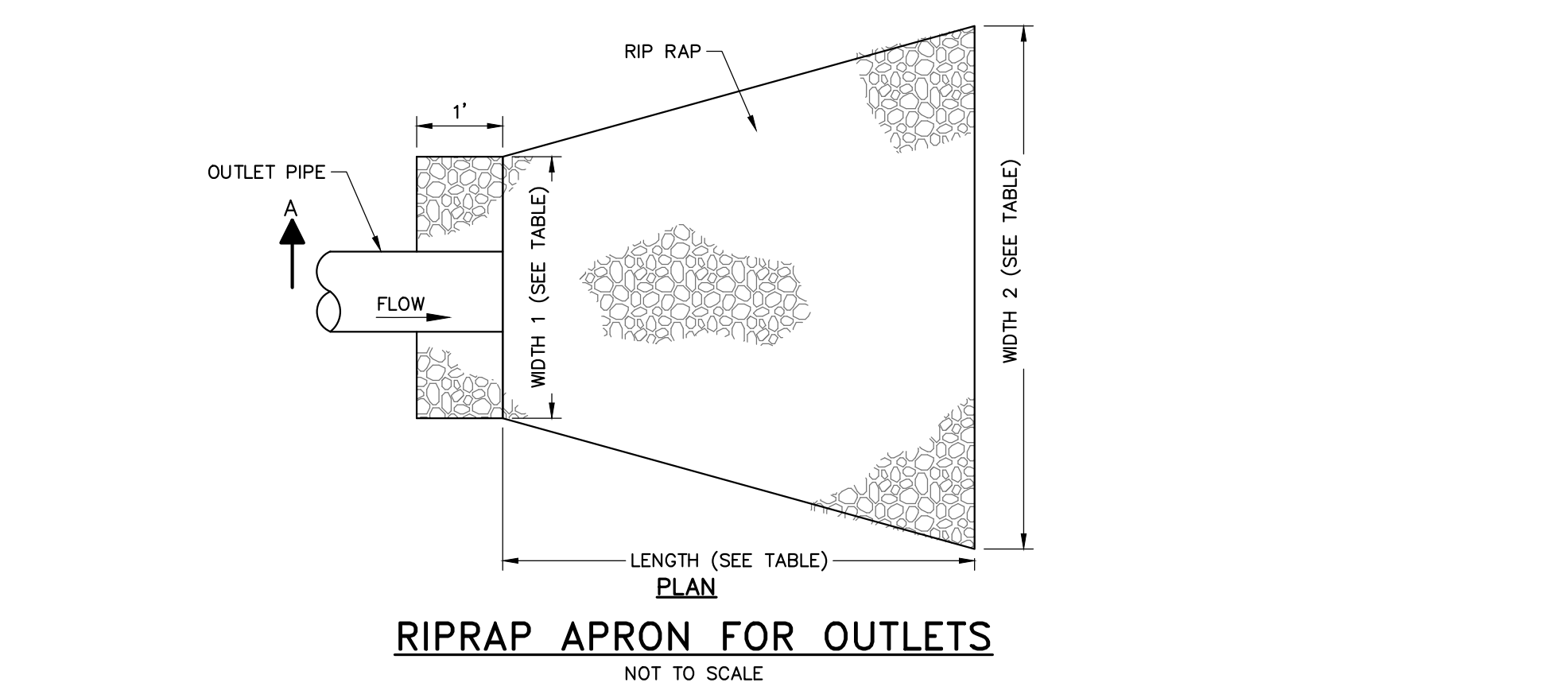
ELEVATIONS/DIMENSIONS										
LOCATION	A (ELEV)	B (ELEV)	C (ELEV)	D (ELEV)	E (ELEV)	F (ELEV)	G (INCHES)	H (INCHES)	J (INCHES)	K (INCHES)
OUTLET CONTROL STRUCTURE (OCS-1)	66.00	64.00	60.00	59.00	59.00	58.50	18	48(MIN.)	VARIES SEE DETAIL	N/A
OUTLET CONTROL STRUCTURE (OCS-2)	77.15	N/A	N/A	71.75	70.75	70.25	12	48(MIN.)	N/A	N/A
OUTLET CONTROL STRUCTURE (OCS-1)	73.44	N/A	N/A	70.33	69.83	69.33	24	48(MIN.)	N/A	N/A

- NOTES:
- ALL CEMENT CONCRETE TO BE 4000 PSI (MIN).
  - CONTROL WEIR SHALL BE SIZED TO MITIGATE DESIGN STORM AS REQUIRED BY THE REGULATIONS AND IN ACCORDANCE WITH THE APPROVED DRAINAGE CALCULATIONS. STAINLESS STEEL PLATE SHALL BE USED FOR CONTROL WEIRS LESS THAN 2 INCHES WIDE.
  - ALL STAINLESS STEEL SHALL BE GRADE 316.
  - MINIMUM EMBANKMENT ELEVATION TO BE 12" ABOVE 50-YEAR STORM ELEVATION.

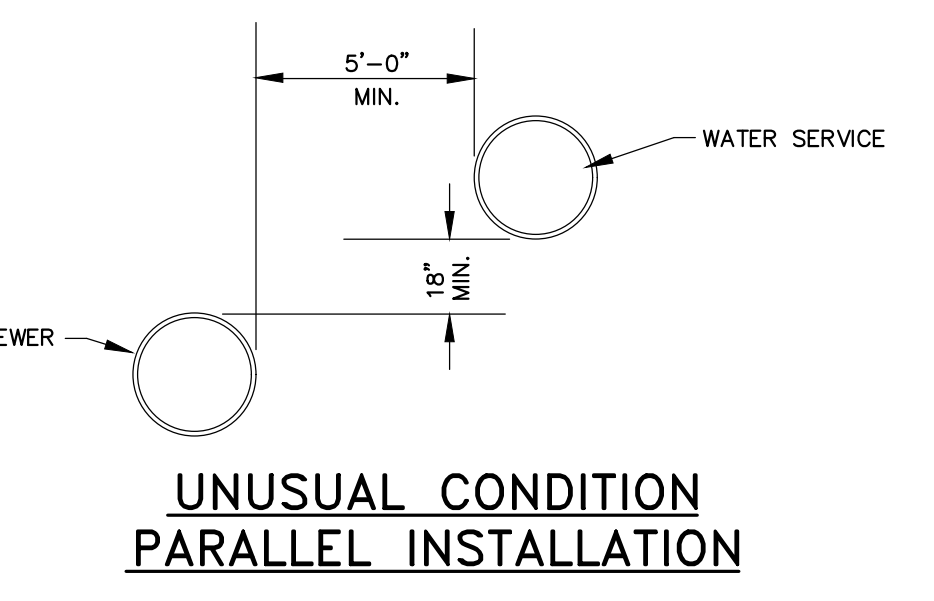


**OUTLET CONTROL STRUCTURE**  
NOT TO SCALE

POND TYPE	PIPE DIAMETER (FT)	MEDIAN STONE DIAMETER D50 (IN)	LENGTH (FT)	DEPTH (FT)	WIDTH 1 (FT)	WIDTH 2 (FT)
INFILTRATION POND	1.5'	10"	10'	2'	5'	10'
BIORETENTION POND	0.5'	9"	10'	2'	5'	8'
UNDERDRAIN OUTLET NO. 1	1'	9"	10'	2'	5'	10'
UNDERDRAIN OUTLET NO. 2	0.5'	9"	10'	2'	5'	8'

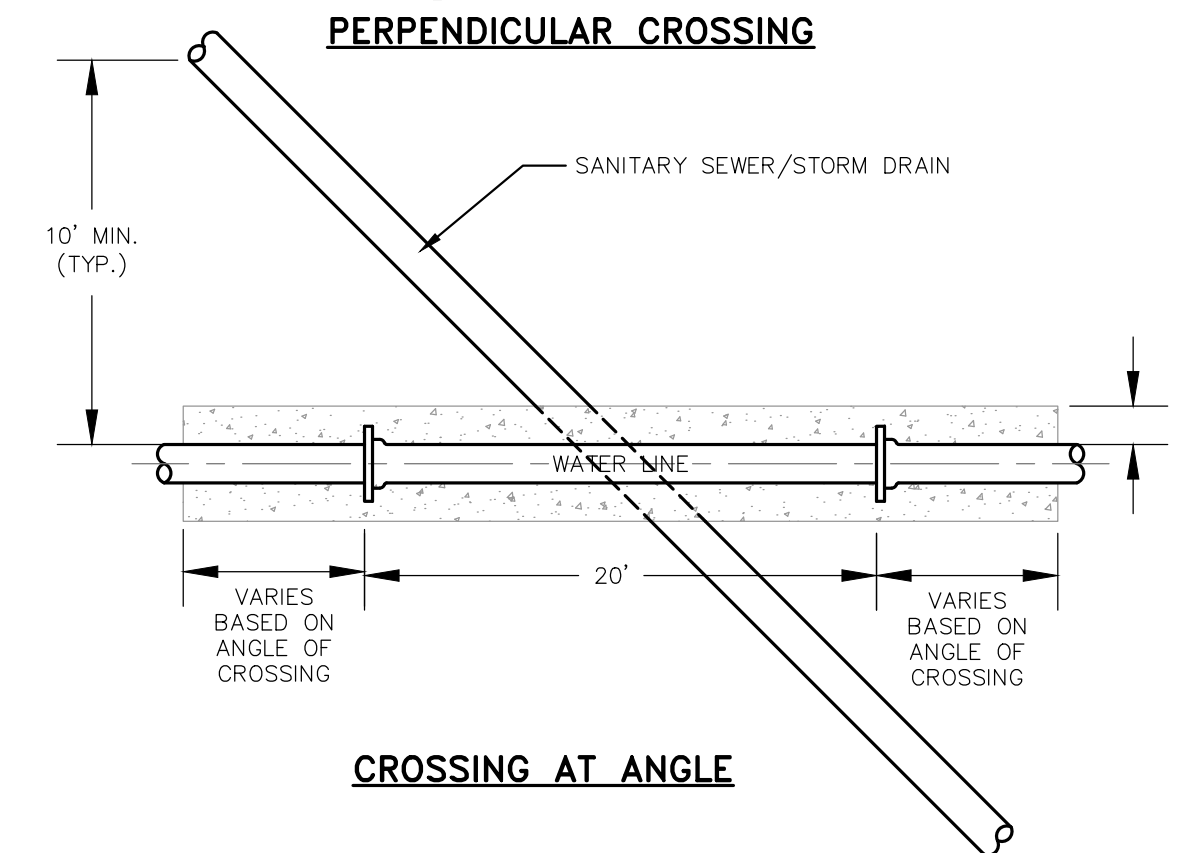
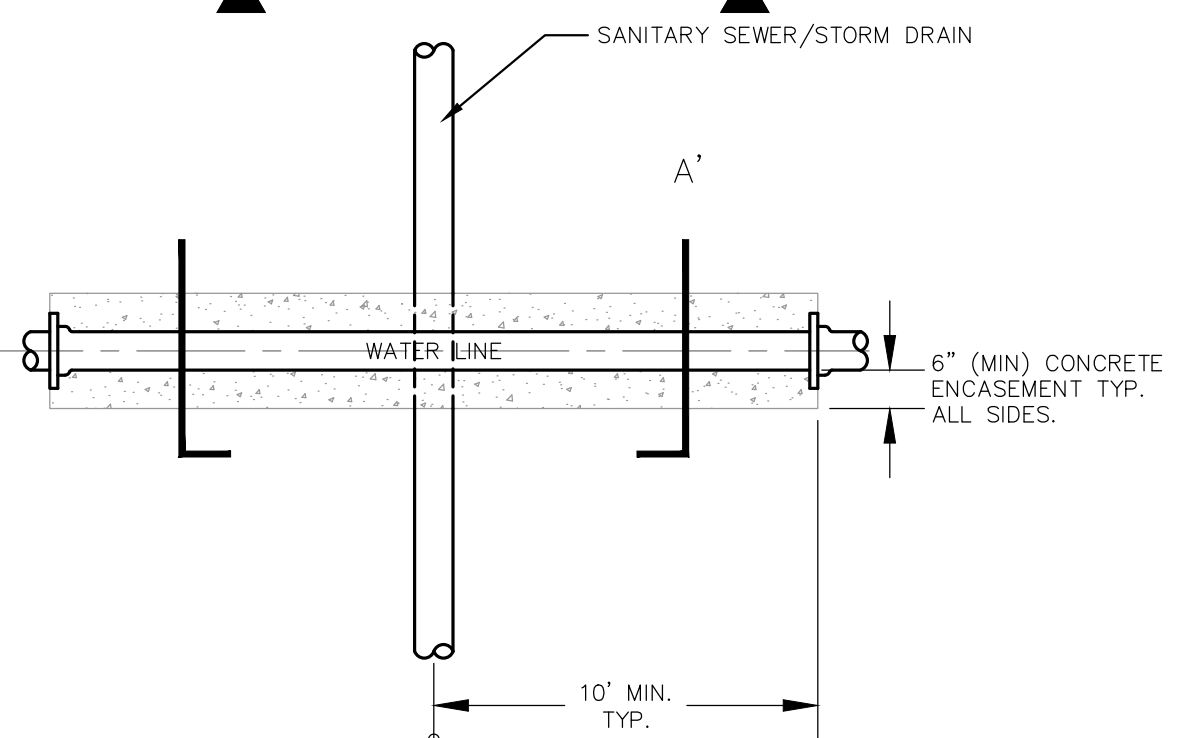


**RIPRAP APRON FOR OUTLETS**  
NOT TO SCALE

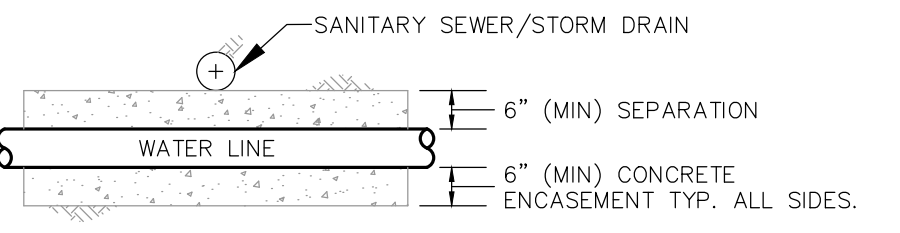


- NOTES:
- THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE FOLLOWING GENERAL REQUIREMENTS.
- PARALLEL INSTALLATION:**
    - NORMAL CONDITIONS: THE INSIDE EDGE OF A WATER MAIN SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE INSIDE EDGE OF ANY SANITARY SEWER, STORM SEWER OR SEWER MANHOLE.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

**WATER MAIN AND STORM OR SANITARY SEPARATION**  
NOT TO SCALE



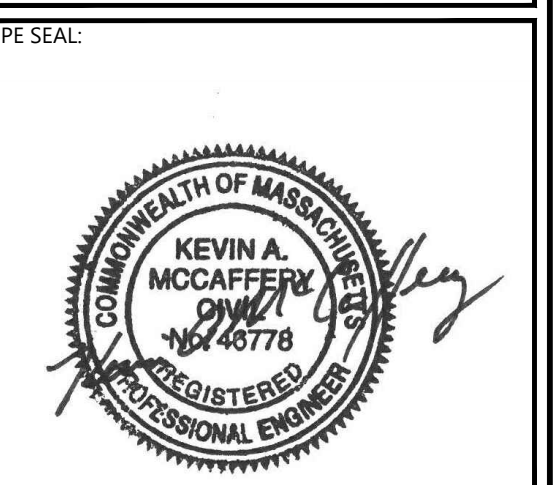
**WATER MAIN AND STORM OR SANITARY CROSSING ENCASEMENT**  
NOT TO SCALE



**SECTION A-A' - WATER BELOW**

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

**SECTION A-A' - WATER ABOVE**



**ISSUE FOR PERMIT**

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

STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

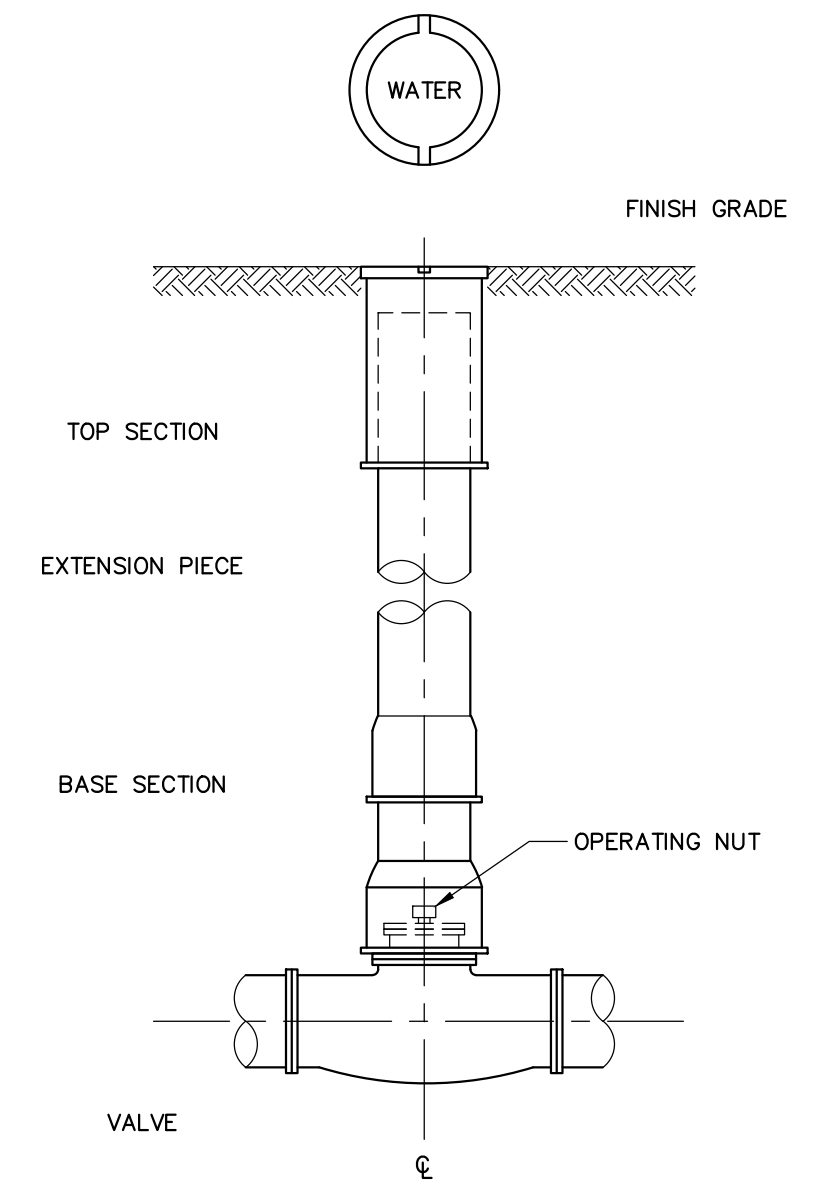
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DATE: AUGUST 2023  
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DRAWN BY: MB  
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DRAWING TITLE:  
**CIVIL DETAILS 4**  
DRAWING NO:  
**C-903**

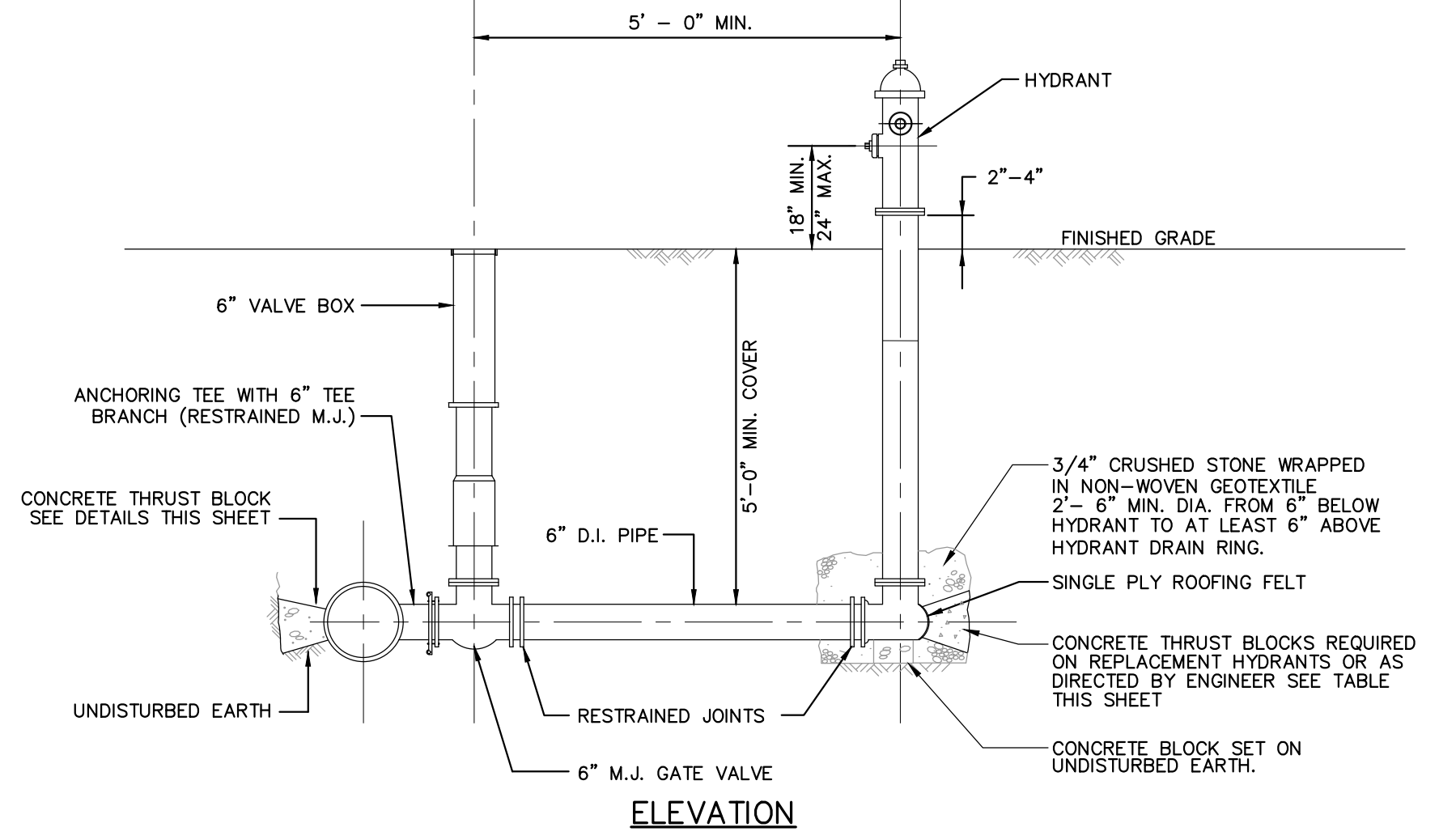
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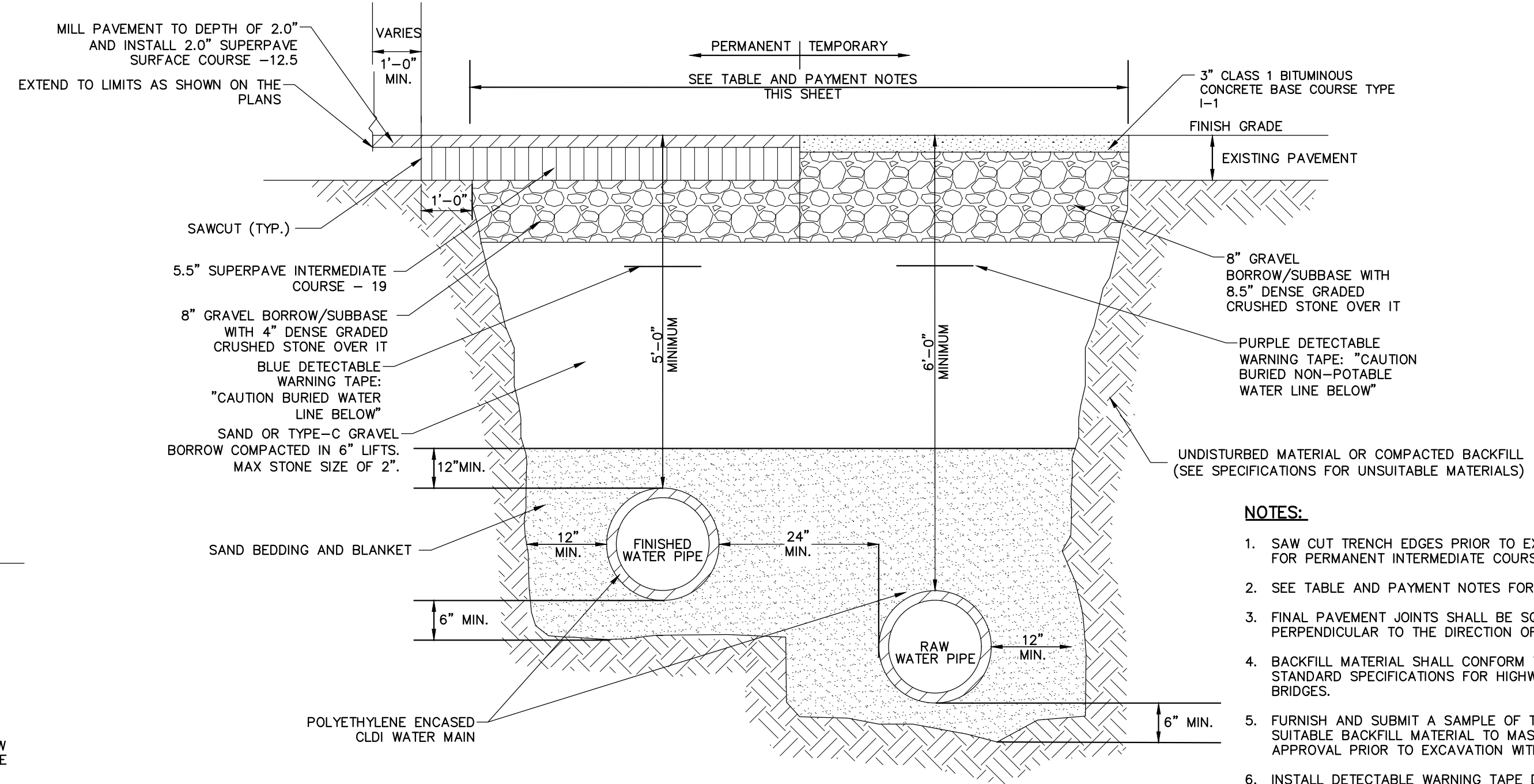


**GATE VALVE WITH VALVE BOX**  
NOT TO SCALE



**HYDRANT**  
NOT TO SCALE

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



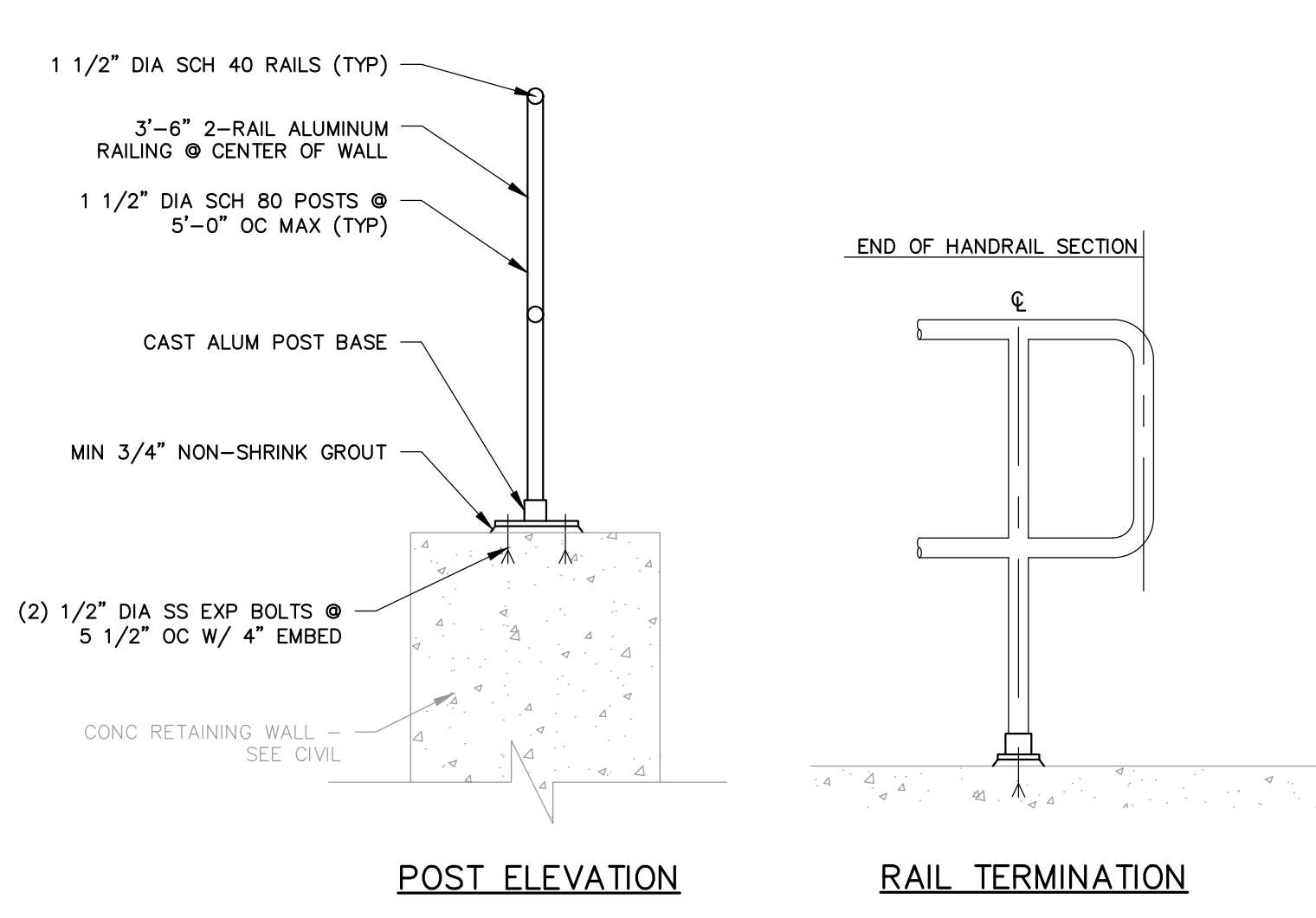
**TRENCH, PAVEMENT & ROCK WIDTH PAY LIMITS (FT.)**

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

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

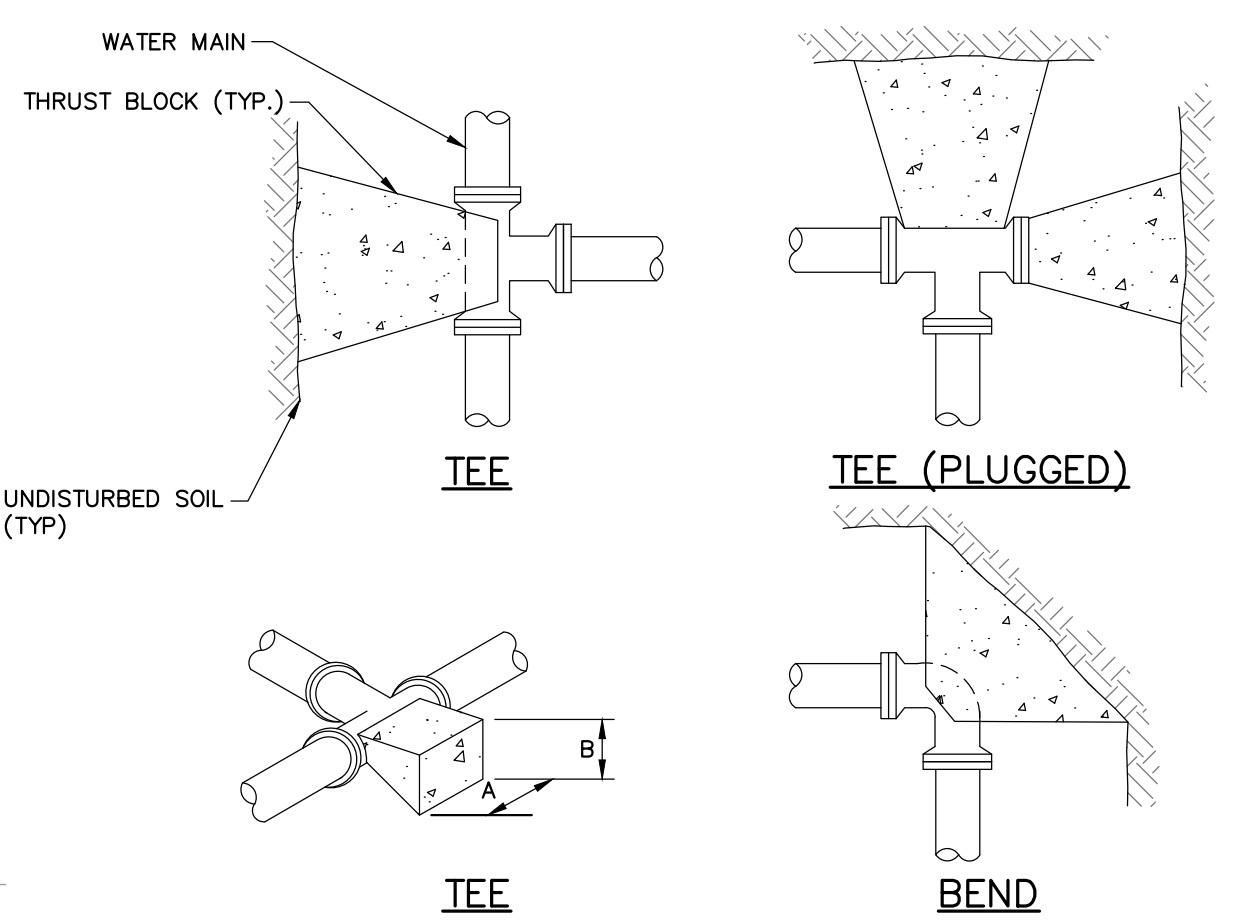
**TYPICAL TRENCH & PAVEMENT DETAIL FOR PARALLEL PIPE INSTALLATION**  
NOT TO SCALE

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



**RAILING DETAIL**  
N.T.S.

- NOTES:**
1. REFER TO PLANS FOR EXTENTS OF RAILINGS.
  2. MINIMUM CLEARANCE BETWEEN RAILING SECTIONS SHALL BE 3" PER OSHA 29 CFR 1910.23(e)(6).



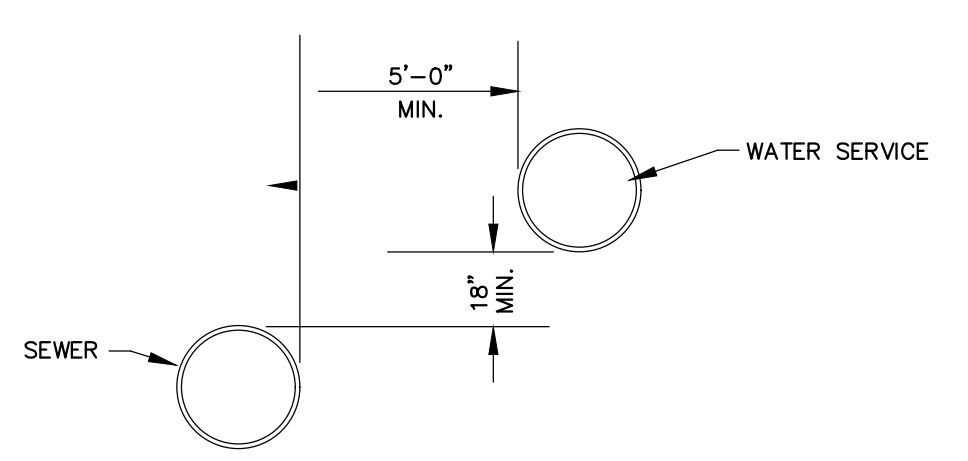
**TABLE 1: 4" THRU 10" FITTINGS**

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

**TABLE 2: 12" THRU 16" FITTINGS**

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

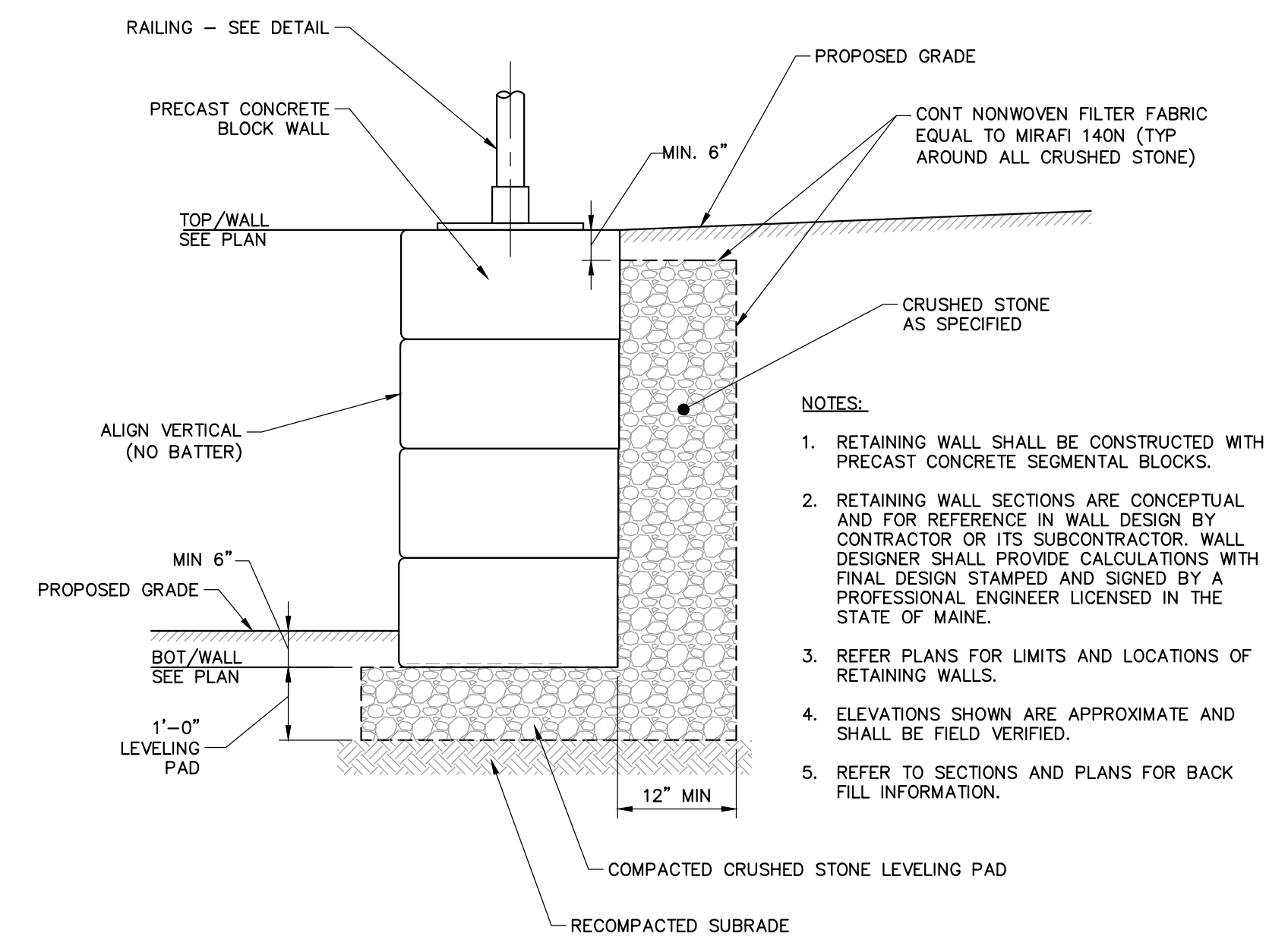
- NOTES:**
1. CONCRETE FOR ALL THRUST BLOCKS TO BE MINIMUM 3,000 PSI, 28 DAY STRENGTH, TYPE I CEMENT, 3/4" STONE.
  2. WHERE POSSIBLE, CONSTRUCT THRUST BLOCKS AGAINST UNDISTURBED SOIL. WHERE NOT POSSIBLE PLACE FILL BETWEEN THE THRUST BLOCK AND THE UNDISTURBED SOIL COMPACTED TO 90% STANDARD PROCTOR DENSITY.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



**UNUSUAL CONDITION PARALLEL INSTALLATION**  
NOT TO SCALE

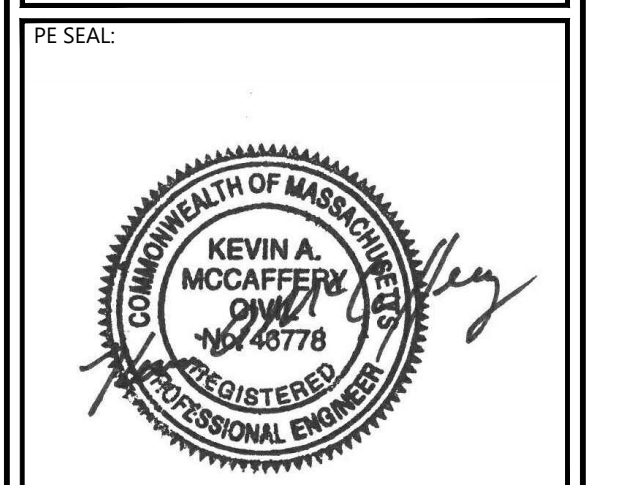
- NOTES:**
- THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE FOLLOWING GENERAL REQUIREMENTS.
- A. PARALLEL INSTALLATION:**
1. NORMAL CONDITIONS: THE INSIDE EDGE OF A WATER MAIN SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE INSIDE EDGE OF ANY SANITARY SEWER, STORM SEWER OR SEWER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

**WATER MAIN AND STORM OR SANITARY SEPARATION**  
NOT TO SCALE



**RETAINING WALL DETAIL**  
SCALE: NOT TO SCALE

- NOTES:**
1. RETAINING WALL SHALL BE CONSTRUCTED WITH PRECAST CONCRETE SEGMENTAL BLOCKS.
  2. RETAINING WALL SECTIONS ARE CONCEPTUAL AND FOR REFERENCE IN WALL DESIGN BY CONTRACTOR OR ITS SUBCONTRACTOR. WALL DESIGNER SHALL PROVIDE CALCULATIONS WITH FINAL DESIGN STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE.
  3. REFER PLANS FOR LIMITS AND LOCATIONS OF RETAINING WALLS.
  4. ELEVATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
  5. REFER TO SECTIONS AND PLANS FOR BACK FILL INFORMATION.



**ISSUE FOR PERMIT**

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

STEARNS MEADOW  
DRINKING WATER  
TREATMENT PLANT

REV.	MM/DD/YY	DESCRIPTION
2	11/15/2023	PEER REVIEW RESPONSE
1	10/06/2023	PEER REVIEW RESPONSE

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

DRAWING TITLE:

**CIVIL DETAILS 5**

DRAWING NO:  
**C-904**

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