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LOWER CENTRAL INTERCEPTOR **IMPROVEMENTS**

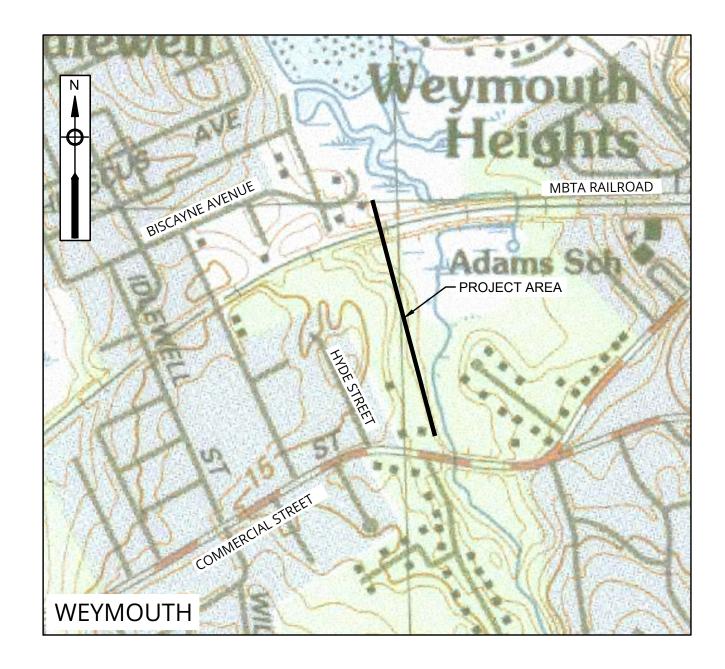
KENAN CONNELL, DIRECTOR

CONTRACT NO. PW-25-002-S TOWN OF WEYMOUTH, MA

MAY 2025 FOR BID









DEPARTMENT OF PUBLIC WORKS

BRAYDON MAROT, P.E., WATER AND SEWER SUPERINTENDENT

JAY DONOVAN, P.E., TOWN ENGINEER

VICINITY MAP 1"= 500'

GENERAL NOTES

- 1. BASE MAP INFORMATION IS BASED ON A GROUND SURVEY PERFORMED BY ZENITH LAND SURVEYORS (FEBRUARY 2023). ELEVATION REFERENCES ARE BASED UPON WEYMOUTH TOWN DATUM (NAVD 88 = WEYMOUTH TOWN DATUM 2.22 FEET).
- 2. IN AREAS WHERE CONSTRUCTION ACTIVITIES ARE ANTICIPATED TO OCCUR WITHIN PRIVATE PROPERTY, PROPERTY LINE LOCATIONS ARE TO BE REVIEWED WITH THE TOWN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- 3. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, CONTRACTOR SHALL NOTIFY DIG SAFE AT LEAST 72 HOURS IN ADVANCE, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO ANY EXCAVATION.
- 4. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSION AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- 5. THE CONTRACTOR SHALL RESTORE ALL PUBLIC AND PRIVATE PROPERTY TO ITS PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 6. ALL EXISTING STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED. THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN SHALL REPAIR ANY EXISTING SEWERS, STORM DRAIN LINES, WATER LINES OR CULVERTS DAMAGED DURING CONSTRUCTION.
- 7. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE RESPECTIVE UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
- 8. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURE CAUSED BY, OR RESULTING FROM. THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY AND THE TOWN.
- 9. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES, BUSHES, PLANTS, PARKING METERS, FLOWERS, STONEWALLS, FENCES, ETC, WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. CONTRACTOR SHALL REPLACE AT NO COST TO OWNER, ALL DAMAGED ITEMS.
- 10. CONTRACTOR SHALL REMOVE AND REPLACE NEW, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE TOWN AND ENGINEER.
- 11. ANY TRAFFIC SIGNAL EQUIPMENT (LIGHTS, CONDUITS, LOOP DETECTORS) DISTURBED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 12. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 13. THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
- 14. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO THE TOWN OF WEYMOUTH. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.
- 15. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR WORK IN ROADWAYS. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL PERMITS AS AN INTEGRAL PART OF HIS WORK.
- 16. THE CONTRACTOR SHALL HANDLE GROUNDWATER, WHERE ENCOUNTERED, IN AN APPROVED MANNER IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

SEWER CONSTRUCTION NOTES:

- 1. OPENINGS FOR PIPE IN MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
- 2. FORM BRICK INVERTS IN MANHOLES WITH BRICK ON EDGE TO A DEPTH OF 0.8 INSIDE DIAMETER OF PIPE AND FORM A 1 INCH SLOPED BENCH WITH BRICK FLAT. INVERT SHALL BE SLOPED UNIFORMLY BETWEEN INLET AND OUTLET PIPE AND SHALL BE FORMED AND FILLED AS REQUIRED TO DIRECT THE FLOW AS INDICATED AND TO PREVENT DEPOSITION OF SOLIDS.
- CALCULATION OF PIPE SLOPES IS BASED ON ELEVATION CHANGES DIVIDED BY THE DISTANCE BETWEEN THE LENGTH OF 3. CENTER TO CENTER OF STRUCTURES.
- 4. ALL EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES.
- CONTRACTOR TO COORDINATE LOCATING SEWER SERVICES WITH WEYMOUTH DEPARTMENT OF PUBLIC WORKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR TO CONDUCT TEST PITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO DETERMINE EXISTING UTILITY ELEVATIONS FOR CROSSINGS
- 7. THE CONTRACTOR MUST GIVE 48 HOURS NOTICE TO THE CONSERVATION COMMISSION PRIOR TO PERFORMING ANY WORK IN THE PROJECT SITE AND BUFFER ZONE.

PROTECTION NOTES

- ADEQUATE PROTECTION OF PERSONS AND PROPERTY SHALL BE PROVIDED AT ALL TIMES. THE WORK SHALL BE EXECUTED IN SUCH A WAY AS TO AVOID HAZARD TO PERSONS AND PROPERTY. WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- PROVIDE ALL NECESSARY TEMPORARY PROTECTION AND BARRIERS TO SEGREGATE THE WORK AREA AND TO PREVENT DAMAGE TO ADJACENT AREAS, AS REQUIRED BY ALL JURISDICTION REGULATIONS.
- PROVIDE PROPER PROTECTION AND BARRIERS BETWEEN THE WORK OF THIS CONTRACT AND EXISTING STRUCTURES TO 3 REMAIN.







MARK DATE DESCRIPTION

CONTRACTOR SHALL SUBMIT A SEQUENCE OF WORK AND SCHEDULE FOR THE OVERALL PROJECT FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE WEEKLY CONSTRUCTION REPORTS TO THE ENGINEER OUTLINING PROGRESS AND PROJECTED SCHEDULE OF COMPLETION.

RESTORATION AND ENVIRONMENTAL PROTECTION NOTES

STORMWATER POLLUTION PREVENTION PLAN -LONG-TERM AND CONSTRUCTION PERIOD

THE TOWN OF WEYMOUTH DEPARTMENT OF PUBLIC WORKS SHALL BE RESPONSIBLE FOR THE LONG-TERM STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE TOWN'S GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF THE CONSTRUCTION PERIOD SWPPP. THE CONTRACTOR SHALL SUBMIT THE CONSTRUCTION PERIOD SWPPP TO THE ENGINEER AND CONSERVATION COMMISSION FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION.

2. IN EACH PHASE OF CONSTRUCTION, IMPLEMENT STANDARD EROSION AND SEDIMENT CONTROL PRACTICES PRIOR TO INITIATING EARTH DISTURBING ACTIVITIES, AND MAINTAIN THESE PRACTICES THROUGHOUT THE COURSE OF CONSTRUCTION. ALL CONSTRUCTION SHALL CONFORM TO THE SWPPP PREPARED IN CONFORMANCE WITH THE BEST MANAGEMENT PRACTICES AND ALL REQUIREMENTS ESTABLISHED IN THE ORDER OF CONDITIONS ISSUED BY THE WEYMOUTH CONSERVATION COMMISSION. THE ORDER OF CONDITIONS IS INCLUDED AS AN APPENDIX OF THE CONTRACT SPECIFICATIONS.

3. TYPICAL PRACTICES TO BE APPLIED TO THE SITE INCLUDE THE FOLLOWING:

- A. PRIOR TO EARTH DISTURBANCE IN ANY WORK AREA, CHECK PREVIOUSLY INSTALLED SILTATION BARRIERS (SILT FENCE AND COIR LOGS) BETWEEN THE WORK AREA AND THE WETLANDS AREA TO WHICH IT DRAINS, AND IN FULL ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AND TEMPORARY STRUCTURES PLANS. EROSION CONTROL MEASURES WILL BE INSPECTED AND REPAIRED AS NEEDED WEEKLY OR FOLLOWING EACH MAJOR RAINFALL EVENT (GREATER THAN 2") WHICHEVER IS SOONER.
- DISCHARGE WATER FROM DEWATERING OPERATIONS TO A FILTRATION SYSTEM DESIGNED BY AN ENGINEER RETAINED BY THE CONTRACTOR. LICENSED IN THE STATE OF MASSACHUSETTS.
- PROVIDE TEMPORARY BERMS AND SWALES TO DIVERT SURFACE WATER AWAY FROM THE AREAS THAT WILL BE EXPOSED BY CONSTRUCTION ACTIVITY TO MINIMIZE THE AMOUNT OF SURFACE WATER COMING INTO CONTACT WITH EXPOSED SOILS. PROVIDE STABLE OUTLETS FOR THESE DEVICES, AND LINE OR VEGETATE THESE DIVERSIONS TO PROVIDE FOR THEIR STABILITY DURING CONSTRUCTION.
- LIMIT THE EXTENT OF EXPOSED SOILS TO AREAS THAT CAN BE WORKED AND RESTABILIZED WITHIN THE CONSTRUCTION SEASON AND DURING THE SPECIFIC CONSTRUCTION PHASE.
- WHEN EARTHWORK CONSTRUCTION ACTIVITY IN AN AREA IS COMPLETE, STABILIZE THE AREA WITH A SUITABLE SURFACE AS DESCRIBED BELOW.
- EXISTING PAVED DRIVEWAYS, SIDEWALKS, ROADWAYS ADJACENT TO THE SITE WILL BE SWEPT MANUALLY OR BY MOTORIZED STREET SWEEPER AS NEEDED TO REMOVE LOSE SOIL MATERIALS ACCUMULATED ON PAVED SURFACES FROM CONSTRUCTION ACTIVITIES. IN ADDITION TO THESE PRACTICES, THE CONTRACTOR SHALL FOLLOW THE SPECIAL PRACTICES DESCRIBED BELOW. COMPLY WITH THE DIRECTIONS OF THE ENGINEER TO ADDRESS EROSION AND SEDIMENTATION CONDITIONS THAT MAY ARISE ON A CASE BY CASE BASIS DURING CONSTRUCTION.
- G. TEMPORARY BY-PASS PUMPS AND DEWATERING PUMPS SHALL BE INSTALLED WITHIN SECONDARY CONTAINMENT BASINS TO LIMIT THE RELEASE OF ANY HAZARDOUS MATERIALS INTO THE SURROUNDING SOILS, GROUNDWATER, SURFACE WATER, OR WETLAND RESOURCE AREAS. CONTAINMENT BASINS WILL BE INSPECTED FOLLOWING ALL PRECIPITATION EVENTS. SPILL RESPONSE MATERIALS SHALL BE MAINTAINED ON-SITE AT ALL TIMES.
- AGGREGATE MATERIALS (GRAVEL, LOAM, STONE) SHALL NOT BE STOCKPILED WITHIN THE CONSTRUCTION LIMITS OF WORK. MATERIALS SHALL BE STORED OFF-SITE, DELIVERED DAILY AS NEEDED, OR STORED IN THE CONSTRUCTION STAGING AREA.
- APPLICATION OF FERTILIZER, HERBICIDES, AND PESTICIDES IS PROHIBITED WITHIN 100-FEET OF THE WETLAND RESOURCE AREA BOUNDARY.
- SITE SECURITY FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PREVENT UNAUTHORIZED ACCESS.
- CONSTRUCTION MATS SHALL BE TEMPORARILY INSTALLED WITHIN CONSTRUCTION LIMITS OF WORK IN WETLAND RESOURCE AREA.
- ALL TEMPORARY FILL AND MATS SHALL BE PLACED OVER BED OF STRAW OR HAY TO DEFINE BOUNDARY BETWEEN EXISTING GRADE AND FILL.

1. STABILIZE ALL BANKS/SLOPES DISTURBED DURING CONSTRUCTION. REFER TO DETAIL ON SHEET CD-2.

2. CONTRACTOR SHALL REMOVE AND DISPOSE OFFSITE THE TOP 1 FOOT OF ORGANIC SOILS DUE TO THE PRESENCE OF INVASIVE SPECIES IN THE RESOURCE AREAS VEGETATED BY COMMON REED.

3. REFER TO WETLAND DELINEATION REPORT AND WETLAND REPLICATION PLANS IN APPENDIX E AND SHEETS C-6 THROUGH C-8 RESPECTIVELY.

4. REGULATORY APPROVALS ARE PROVIDED IN APPENDICES D AND G IN SPECIFICATIONS.

STORMWATER MANAGEMENT OPERATION AND MAINTENANCE INSTRUCTIONS

- SILT FENCE AND COIR LOGS:

 - REQUIRED.

2.

- SITE:
- AND WETLAND RESOURCE AREAS.
- ENGINEER.
- COVERAGE.
- 3. OWNER INFORMATION:

PROJECT SIGNAGE

DISPLAYED AT THE SITE BEARING THE WORDS:

MASS DEP FILE NUMBER 81-1313

2.

DEWATERING NOTES AND SUBMITTALS

- WATER LEVELS.
- 3. GROUNDWATER DRAWDOWN.

- DRAINS.
- 7 ACCEPTANCE PRIOR TO INSTALLATION.

Scale	AS NOTED		LOWER CENTRAL INTERCEPTOR IMPROVEMENTS	FOR BID
Date	MAY 2025			Sheet No.
Job No.	290-2101		WEYMOUTH, MASSACHUSETTS	
Designed by	SLC	THIS LINE IS ONE INCH		
Drawn by	SLC	FULL SCALE ON A 22" X		
Checked by	RJA	34" DRAWING	GENERAL NOTES	
Approved by	RJA			

A. INSTALL PRIOR TO COMMENCEMENT OF THE EARTHWORK OPERATIONS

INSPECT EROSION CONTROLS IMMEDIATELY AFTER EACH STORM AND REMOVE ACCUMULATED SEDIMENT AS

REPLACE DAMAGED EROSION CONTROLS AS REQUIRED.

A. REGULARLY PICK UP AND REMOVE LITTER FROM THE CONSTRUCTION AREA, ADJACENT PRIVATE PROPERTY

PAVED SURFACES WITHIN THE WORK AREA SHALL BE SWEPT AS NEEDED AT THE REQUEST OF THE

LAWN AREAS SHALL BE DRESSED WITH LOAM AND RESEEDED AS NEEDED TO MAINTAIN UNIFORM GRASS

D. NO FERTILIZER, HERBICIDES, OR PESTICIDES SHALL BE APPLIED WITHIN 100 FEET OF SURFACE WATER

A. THE OWNER OF THE LOWER CENTRAL INTERCEPTOR SEWER IS THE TOWN OF WEYMOUTH DEPARTMENT OF PUBLIC WORKS, 120 WINTER STREET, WEYMOUTH, MA 02188 (781-337-5100).

IN ACCORDANCE WITH THE PROJECT'S ORDER OF CONDITIONS ISSUED BY THE WEYMOUTH CONSERVATION COMMISSION, A SIGN, NOT LESS THAN TWO SQUARE FEET OR MORE THAN THREE SQUARE FEET IN SIZE, SHALL BE

CONTRACTOR SHALL FURNISH AND INSTALL THE SIGN AT LOCATIONS COORDINATED WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE SIGN BACKGROUND SHALL BE WHITE AND THE LETTERING SHALL BE BLACK.

1. THE FOLLOWING DEWATERING NOTES ARE TO BE USED IN CONJUNCTION WITH REQUIREMENTS OUTLINED IN THE ORDER OF CONDITIONS, SPECIFICATION SECTION 02140, AND THE MBTA AGREEMENT.

2. INSTALL 1-INCH-DIAMETER STANDPIPES TO THE BOTTOM OF EACH WELL TO MONITOR WELL PERFORMANCE AND

INSTALL PIEZOMETERS DOWN TO TOP OF ROCK AT JACKING/RECEIVING PITS AND ALONG THE PIPE RUN TO MONITOR

THE DEWATERING WELLS SHOWN ON THE CONTRACT DRAWINGS ARE TO BE CONSIDERED THE MINIMUM AMOUNT TO COMPLETE THE WORK AND SHOULD BE USED FOR BIDDING PURPOSES ONLY.

THE CONTRACTOR SHALL PREPARE THEIR OWN DEWATERING SYSTEM DESIGN THAT IS DESIGNED IN CONJUNCTION WITH THE JACKING/RECEIVING PITS AND MEETS THE REQUIREMENTS HEREIN. THE DESIGN SHALL BE STAMPED BY A MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER ENGAGED BY THE CONTRACTOR.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO INSTALL THE JACKING/RECEIVING PITS AND DEWATERING SYSTEM AND ANY PERMITS TO DISCHARGE DEWATERING FEELUENT INTO LOCAL STORM

SUBMIT THE CONTRACTOR DEWATERING SYSTEM DESIGN TO THE ENGINEER FOR REVIEW, APPROVAL, AND

LEGEND

PROPOSED

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SEWER MANHOLE (SMH)
NEW GRADE
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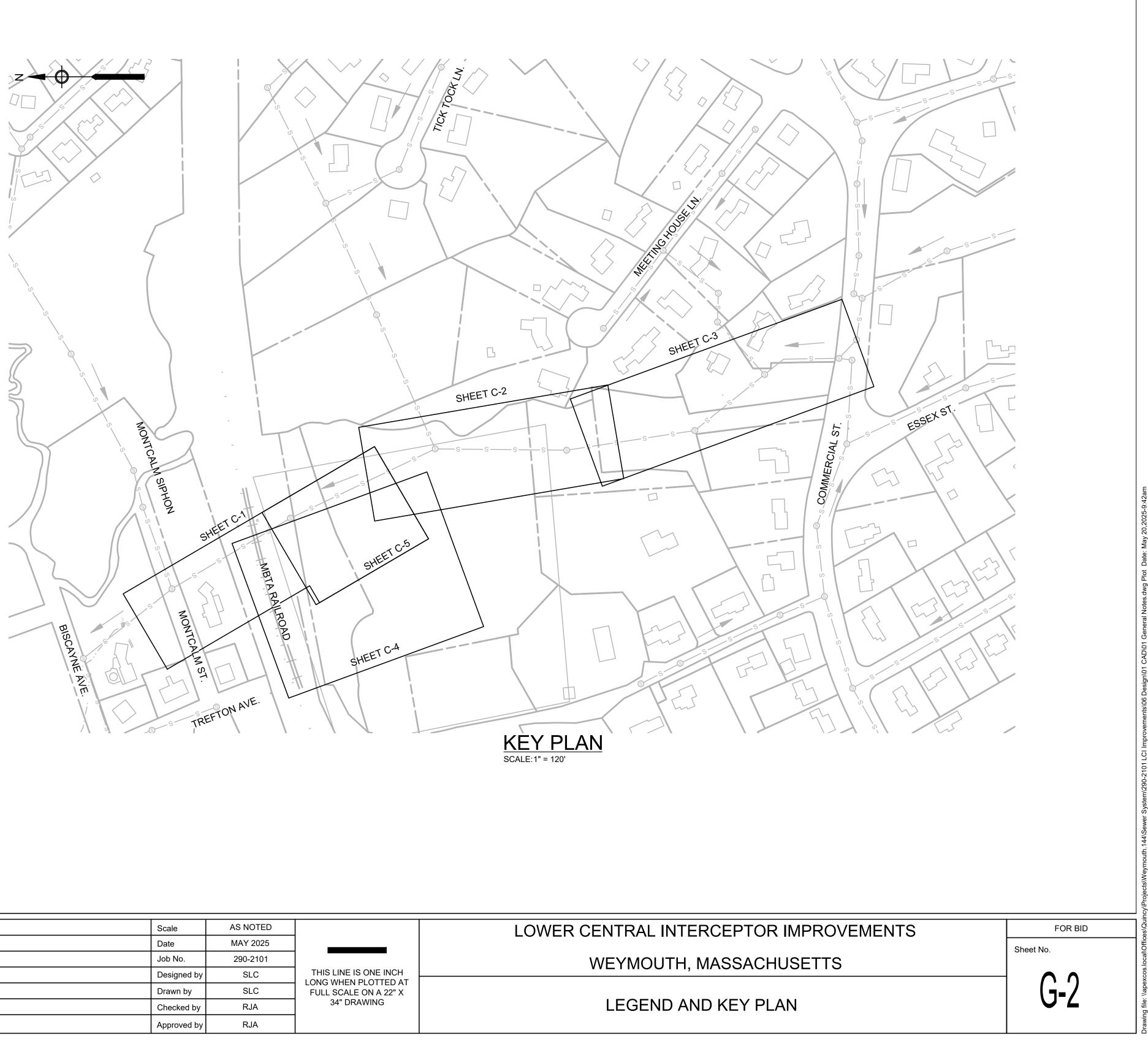
SEWER MANHOLE (SMH) PROPERTY BOUNDRY ASPHALT BERM BIT. CURB EDGE OF PAVEMENT PROPERTY LINE STOCKADE FENCE CHAIN LINK FENCE WETLAND EASEMENT 100-YEAR FLOODPLAIN HIGH TIDE RAILROAD SEWER MAIN MEAN HIGH WATER STONEWALL OVERHEAD WIRE TREELINE RIVERFRONT BUFFER ZONE WETLAND BUFFER ZONE REINFORCED CONCRETE VITRIFIED CLAY POLYVINYL CHLORIDE CORRUGATED METAL WATER SEWER DRAIN SINGLE WHITE LINE DOUBLE YELLOW LINE UTILITY POLE GUY WIRE / GUY POLE DECIDUOUS TREE SHRUB MAILBOX (MB) WETLAND FLAG WETLAND BORING



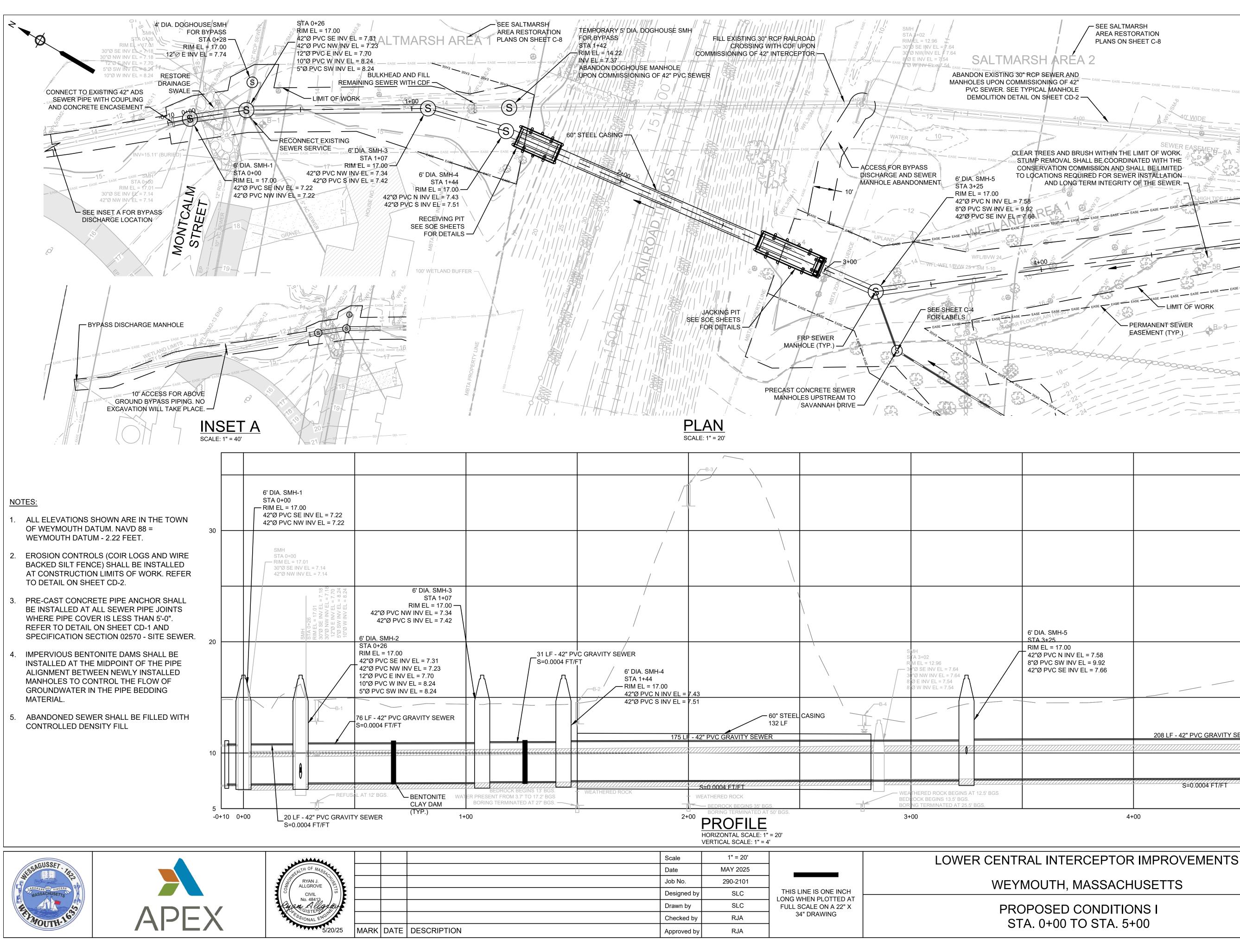




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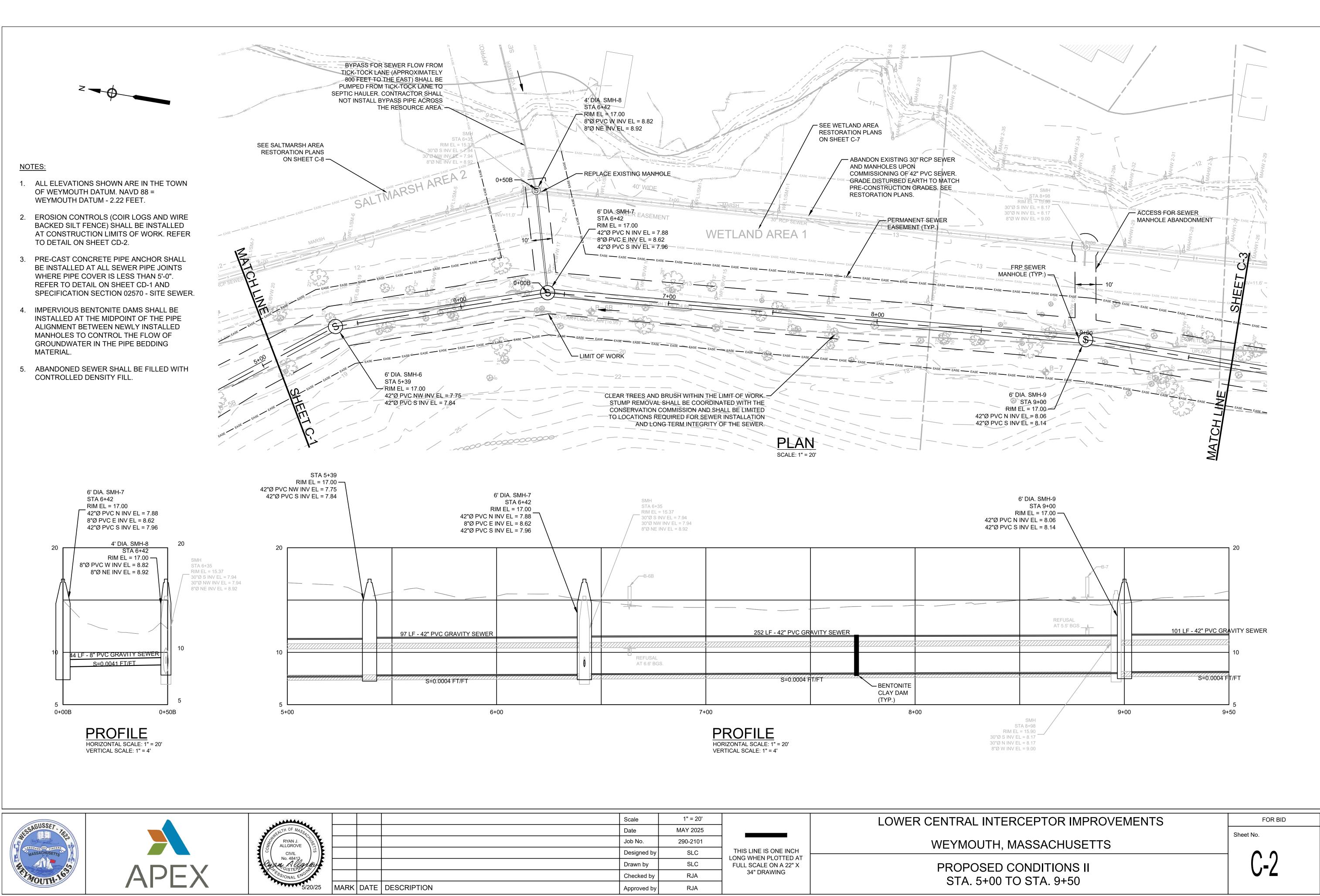


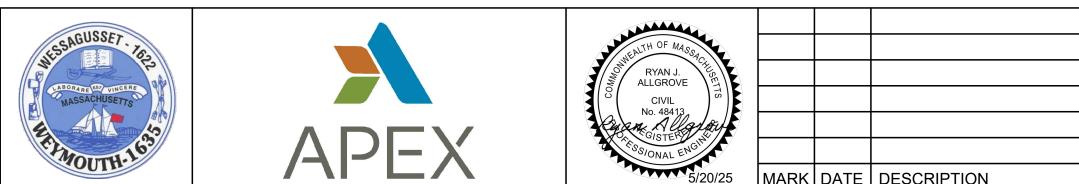
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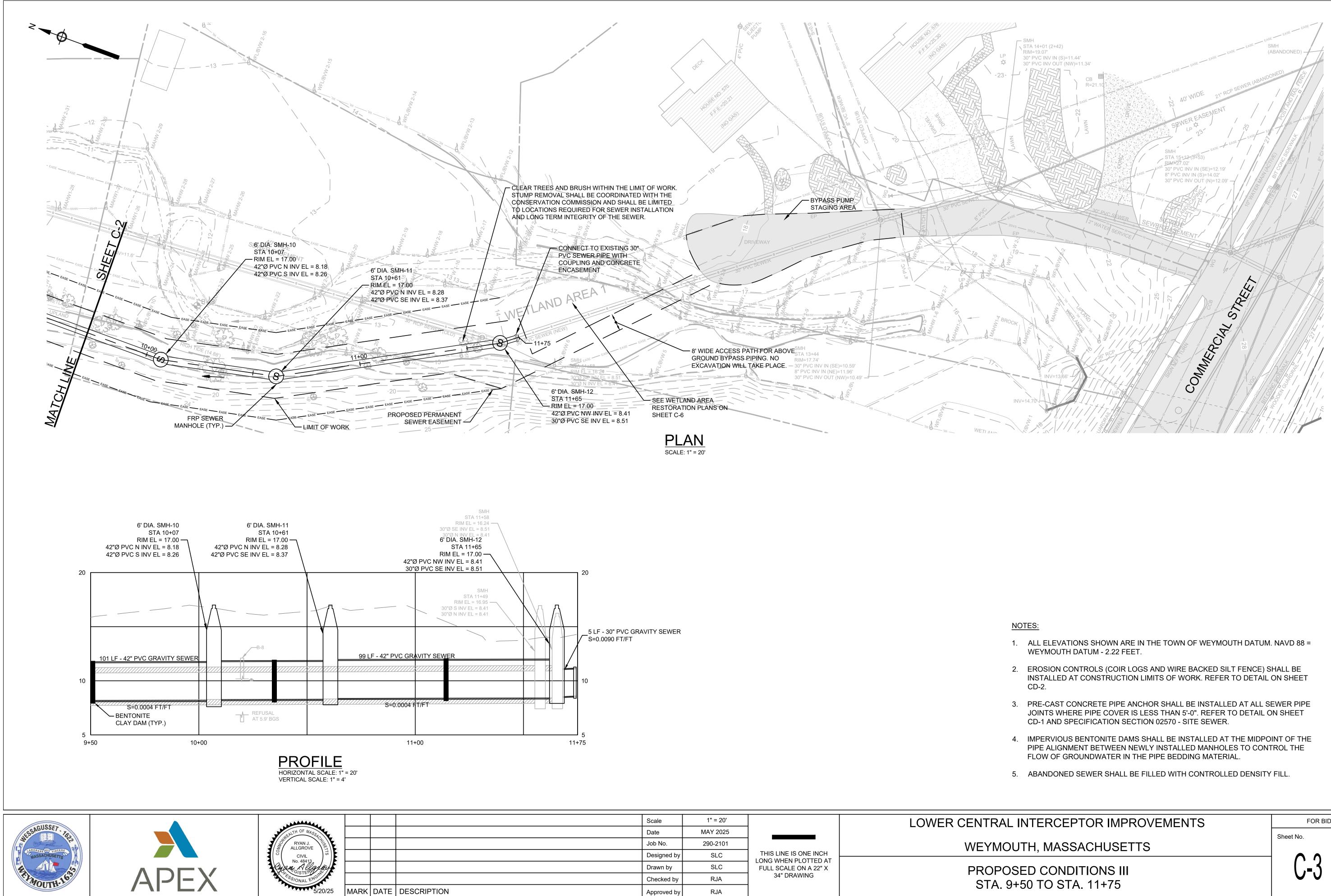
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- SEE SALTMARSH AREA RESTORATION PLANS ON SHEET C-8
REA 2
RAND OF 42" EASE EASE EASE EASE EASE EASE EASE EAS
40'WIDE
AND BRUSH WITHIN THE LIMIT OF WORK.
OVAL SHALL BE COORDINATED WITH THE ON COMMISSION AND SHALL BE LIMITED S REQUIRED FOR SEWER INSTALLATION FASE LONG TERM INTEGRITY OF THE SEWER.
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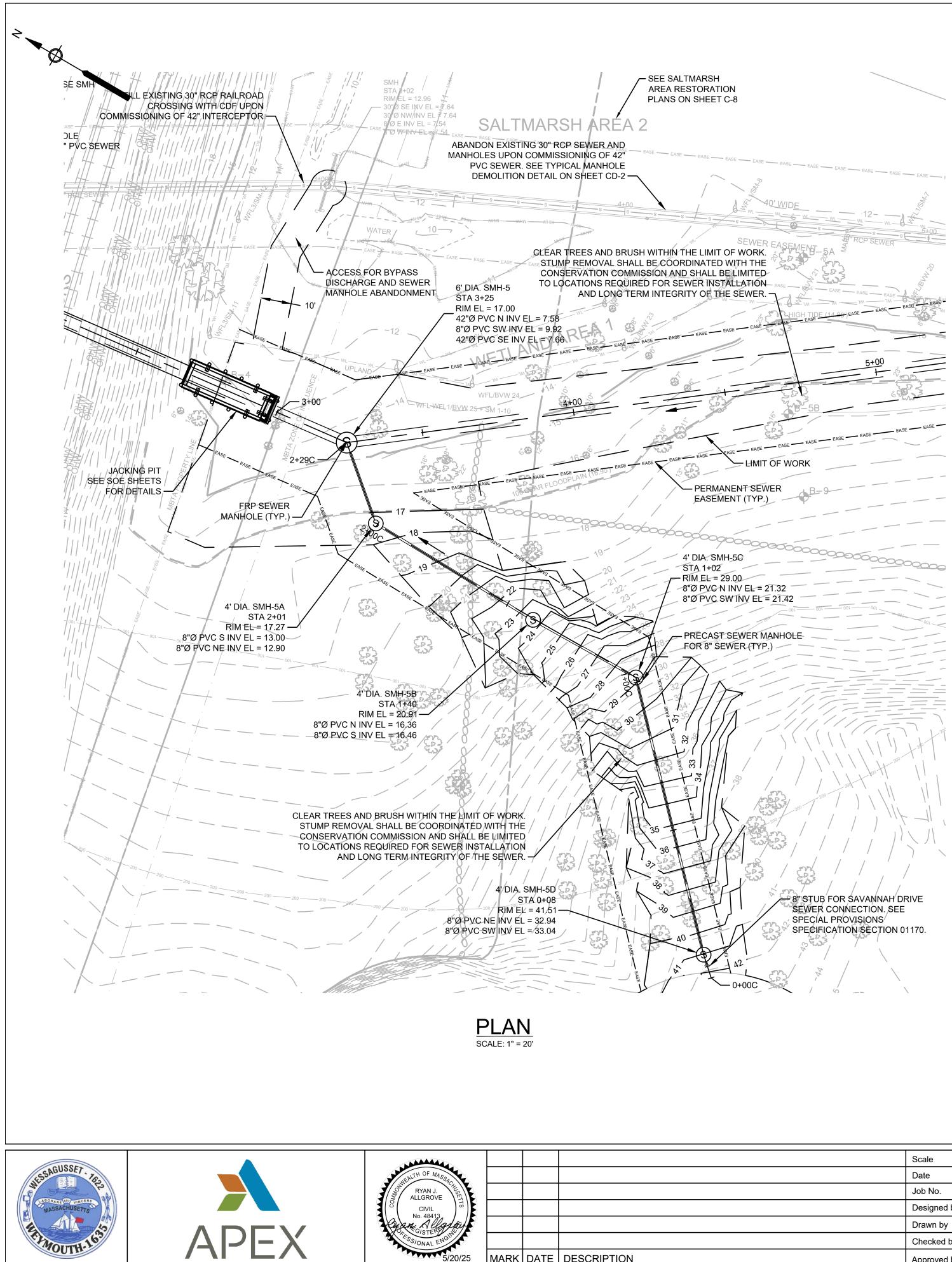


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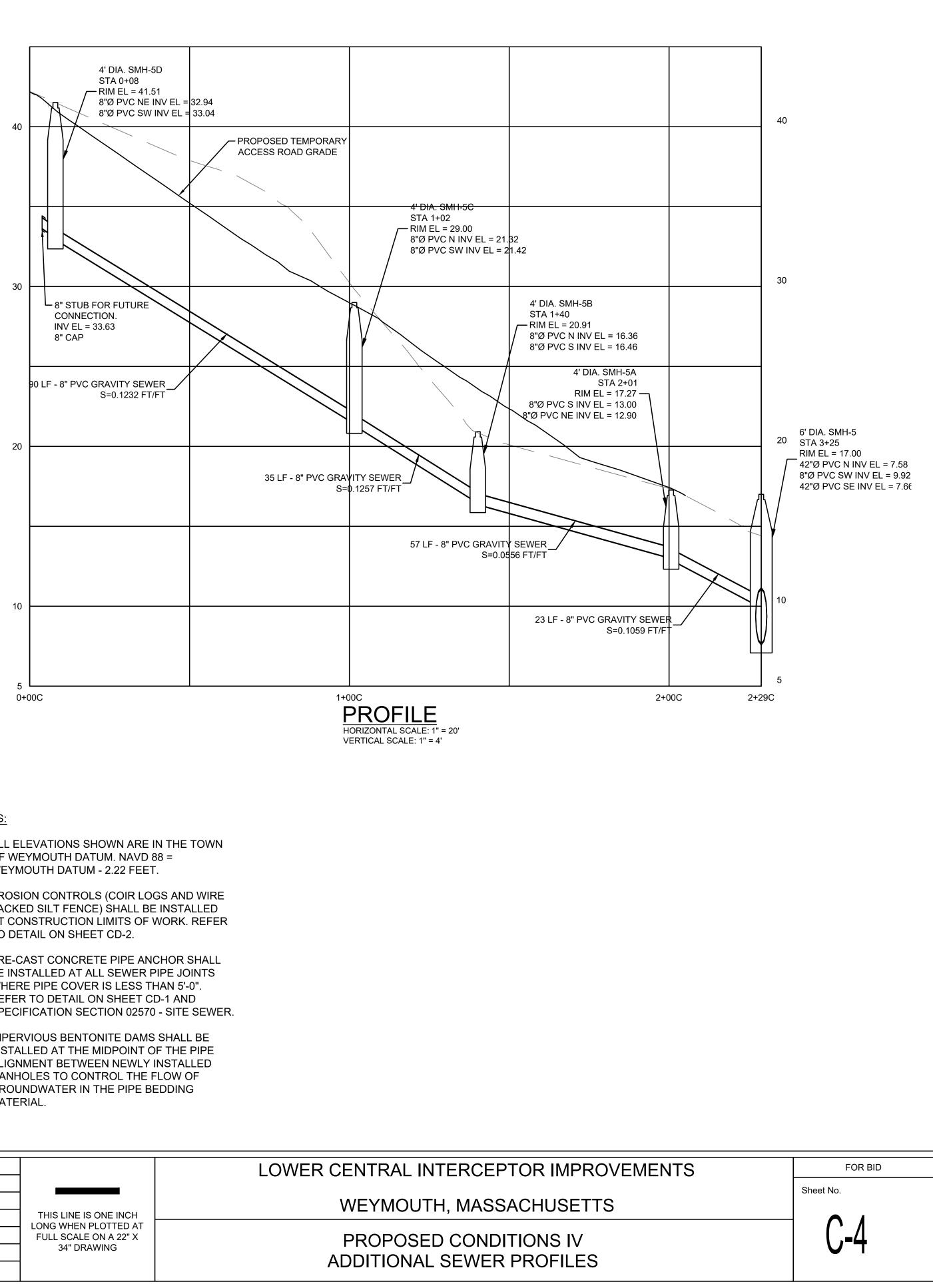
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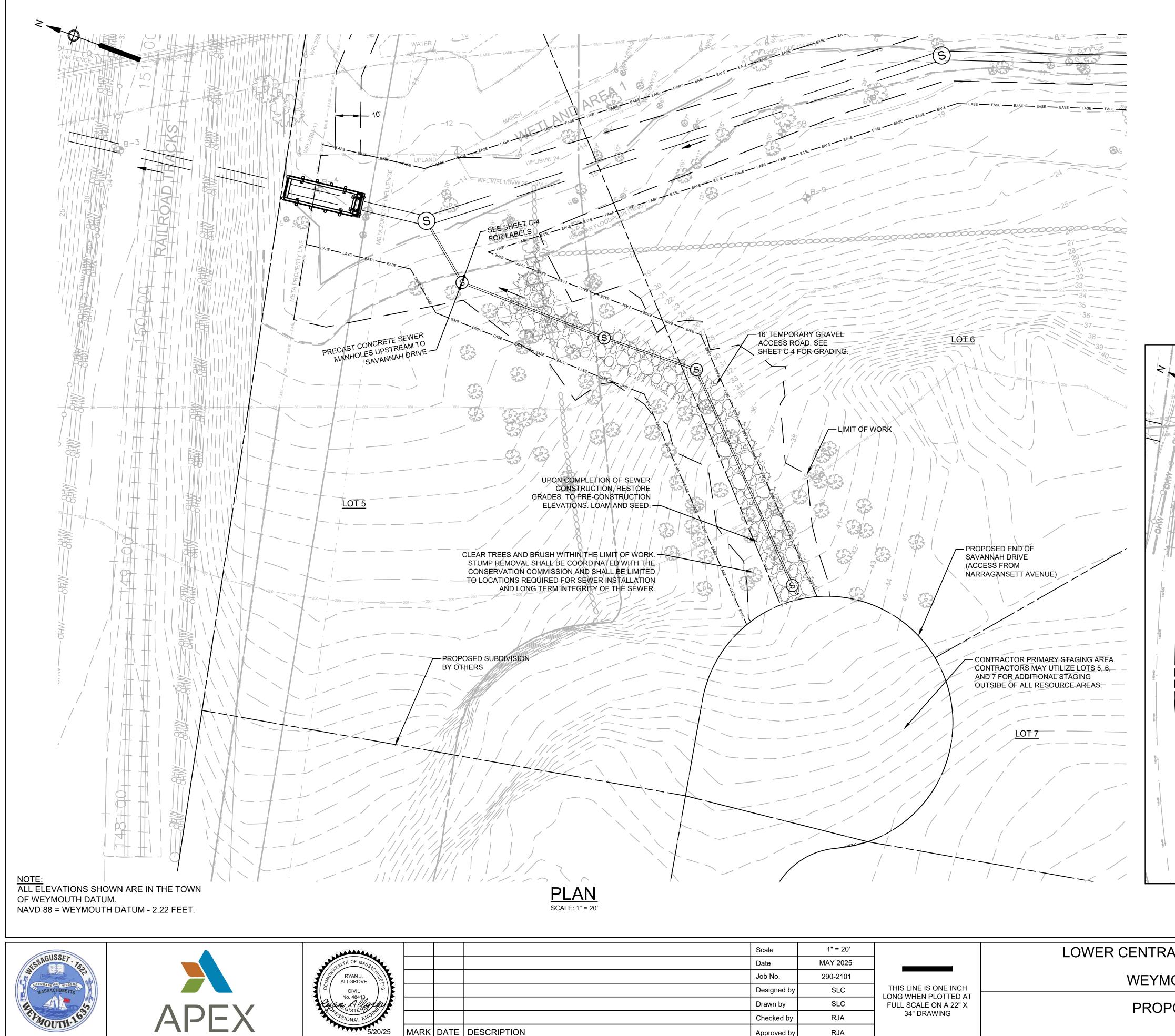
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NOTES:

- 1. ALL ELEVATIONS SHOWN ARE IN THE TOWN OF WEYMOUTH DATUM. NAVD 88 = WEYMOUTH DATUM - 2.22 FEET.
- 2. EROSION CONTROLS (COIR LOGS AND WIRE BACKED SILT FENCE) SHALL BE INSTALLED AT CONSTRUCTION LIMITS OF WORK. REFER TO DETAIL ON SHEET CD-2.
- 3. PRE-CAST CONCRETE PIPE ANCHOR SHALL BE INSTALLED AT ALL SEWER PIPE JOINTS WHERE PIPE COVER IS LESS THAN 5'-0". REFER TO DETAIL ON SHEET CD-1 AND SPECIFICATION SECTION 02570 - SITE SEWER.
- 4. IMPERVIOUS BENTONITE DAMS SHALL BE INSTALLED AT THE MIDPOINT OF THE PIPE ALIGNMENT BETWEEN NEWLY INSTALLED MANHOLES TO CONTROL THE FLOW OF GROUNDWATER IN THE PIPE BEDDING MATERIAL.

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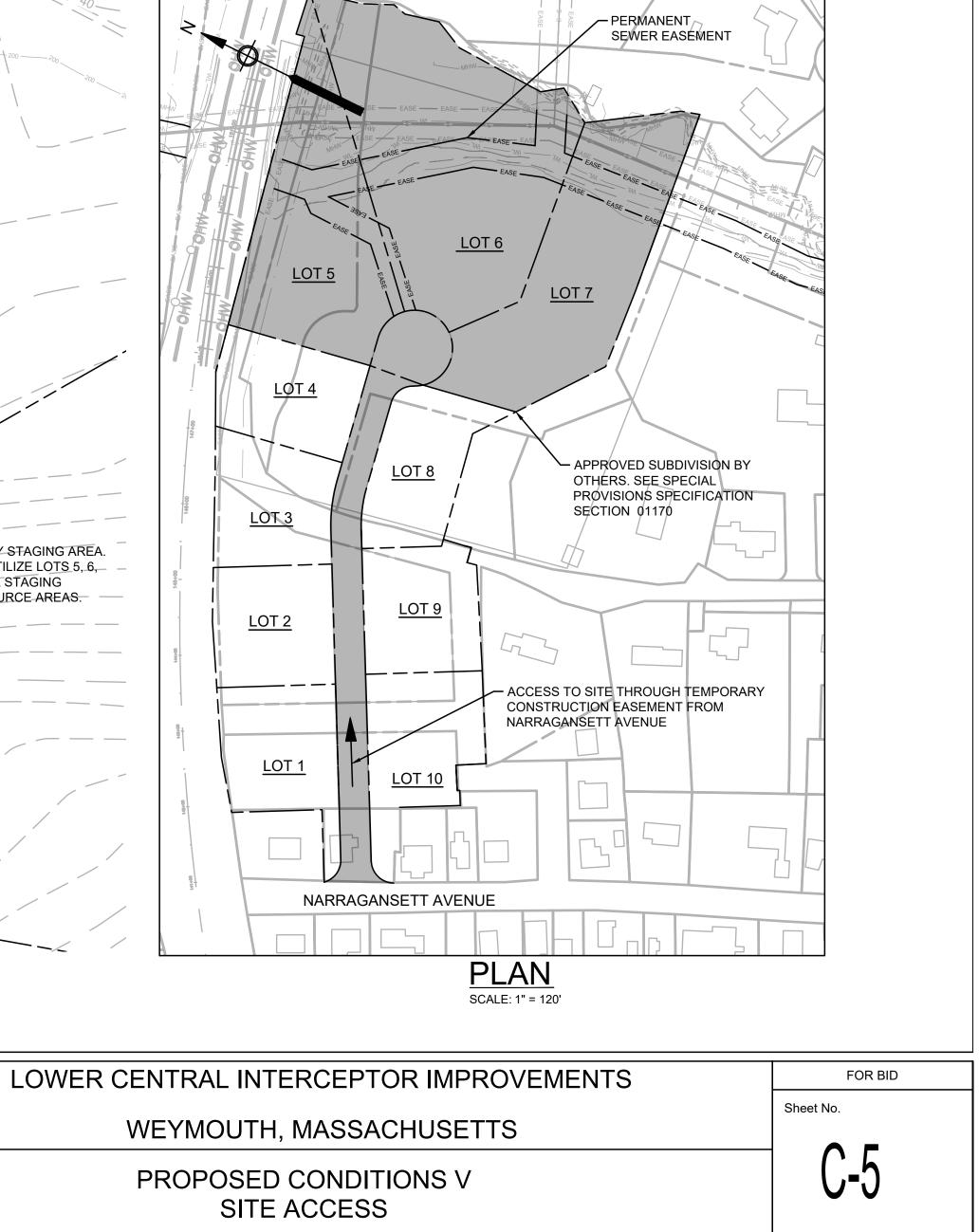


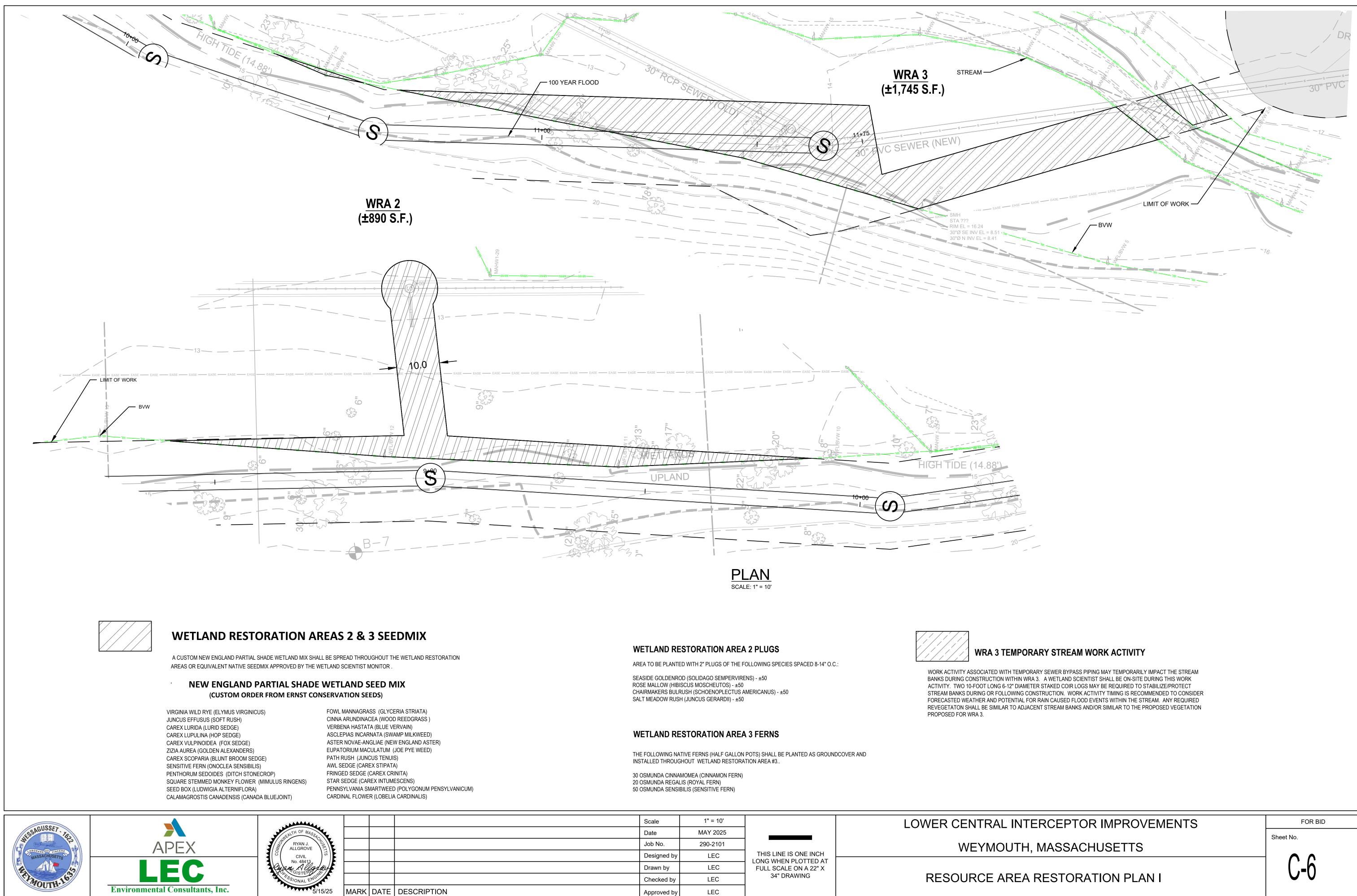
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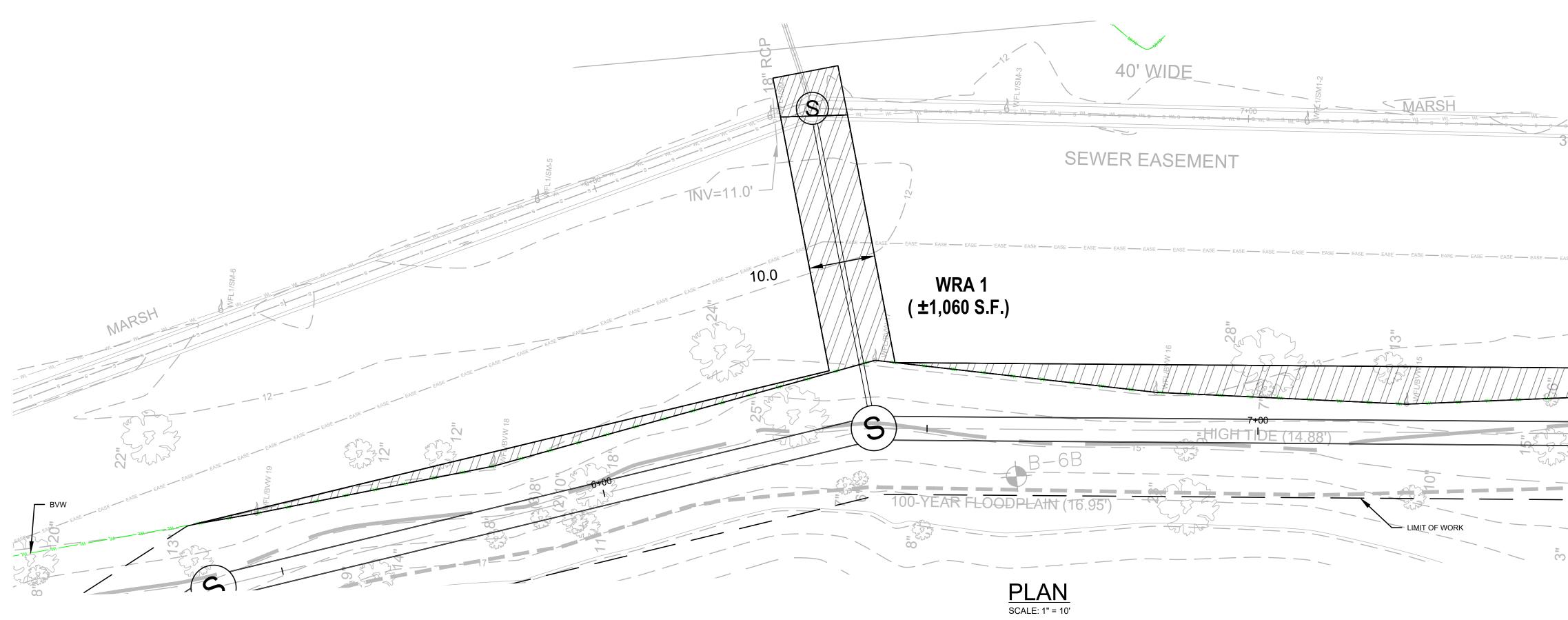
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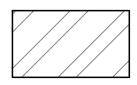




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TERCEPTOR IMPROVEMENTS	FOR BID
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A RESTORATION PLAN I	C-6





WETLAND RESTORATION AREA 1 GROUNDCOVER

A CUSTOM NEW ENGLAND PARTIAL SHADE WETLAND MIX SHALL BE SPREAD THROUGHOUT WETLAND RESTORATION AREA 1 OR EQUIVALENT NATIVE SEEDMIX APPROVED BY THE WETLAND SCIENTIST MONITOR .

NEW ENGLAND PARTIAL SHADE WETLAND SEED MIX (CUSTOM ORDER FROM ERNST CONSERVATION SEEDS)

VIRGINIA WILD RYE (ELYMUS VIRGINICUS) JUNCUS EFFUSUS (SOFT RUSH) CAREX LURIDA (LURID SEDGE) CAREX LUPULINA (HOP SEDGE) CAREX VULPINOIDEA (FOX SEDGE) ZIZIA AUREA (GOLDEN ALEXANDERS) CAREX SCOPARIA (BLUNT BROOM SEDGE) SENSITIVE FERN (ONOCLEA SENSIBILIS) PENTHORUM SEDOIDES (DITCH STONECROP) SQUARE STEMMED MONKEY FLOWER (MIMULUS RINGENS) SEED BOX (LUDWIGIA ALTERNIFLORA) CALAMAGROSTIS CANADENSIS (CANADA BLUEJOINT)

FOWL MANNAGRASS (GLYCERIA STRIATA) CINNA ARUNDINACEA (WOOD REEDGRASS) VERBENA HASTATA (BLUE VERVAIN) ASCLEPIAS INCARNATA (SWAMP MILKWEED) ASTER NOVAE-ANGLIAE (NEW ENGLAND ASTER) EUPATORIUM MACULATUM (JOE PYE WEED) PATH RUSH (JUNCUS TENUIS) AWL SEDGE (CAREX STIPATA) FRINGED SEDGE (CAREX CRINITA) STAR SEDGE (CAREX INTUMESCENS) PENNSYLVANIA SMARTWEED (POLYGONUM PENSYLVANICUM) CARDINAL FLOWER (LOBELIA CARDINALIS)

WETLAND RESTORATION AREA 1 GROUNDCOVER PLUGS

AREA TO BE PLANTED WITH 2" PLUGS OF THE FOLLOWING SPECIES SPACED 8-14" O.C.:

SEASIDE GOLDENROD (SOLIDAGO SEMPERVIRENS) - ±50 ROSE MALLOW (HIBISCUS MOSCHEUTOS) - ±200 CHAIRMAKERS BULRUSH (SCHOENOPLECTUS AMERICANUS) - ±100 SALT MEADOW CORDGRASS (SPARTINA PATENS) - ±100 SALT MEADOW RUSH (JUNCUS GERARDII) - ±100



WETLAND RESTORATION NOTES FOR WRA's 1-3

A QUALIFIED WETLAND SCIENTIST SHALL SUPERVISE PROPOSED WETLAND RESTORATION WORK ACTIVITY PRIOR TO CONSTRUCTION, EROSION CONTROLS SHALL BE ESTABLISHED ALONG THE DOWNGRADIENT LIMITS OF PROPOSED RESTORATION

APPLICABLE ALONG THE LIMIT OF WORK. RE-USE OF EXISTING EXCAVATED TOPSOILS IS ANTICIPATE AND RECOMMENDED WHERE FEASIBLE. SHOULD RE-USEABLE EXCAVATED STOCKPILING, THE WETLAND SOIL SHALL BE TEMPORARILY STORED ON-SITE, COVERED AND KEPT SEPARATED FROM OTHER SOILS

ANY REQUIRED SOIL AMENDMENTS SHALL CONSIST OF A MIXTURE OF ORGANIC CLEAN LEAF COMPOST AND INORGANIC SANDY LOAM M SHALL HAVE A TARGET ORGANIC MATTER CONTENT OF APPROXIMATELY BETWEEN 15% - 20%. ANY IMPORTED SOIL SHALL BE INSPECT BEFORE PLACEMENT IN THE RESTORATION AREA.

RESTORED WETLAND TOPSOILS ARE ANTICIPATED TO BE A MINIMUM OF 12 INCHES DEEP WHERE EXCAVATION OCCURS WITHIN AREAS (OTHERWISE SOIL AMENDMENT DEPTH SHALL DEPEND ON EXISTING CONDITIONS FROM TEMPORARY DISTURBANCE. THE WETLAND SCIE ESTABLISHMENT OF FINAL GRADING OF THE WETLAND RESTORATION AREA.

FINAL ELEVATIONS OF THE WETLAND RESTORATION AREA SHALL CLOSELY MIMIC THE PRE-EXISTING GRADES AND THE IMMEDIATELY AD GRADES SHALL BE CONFIRMED USING SURVEY EQUIPMENT DURING CONSTRUCTION IN EFFORT TO COMPARE TO PRE-EXISTING AND AD EFFORT SHALL BE MADE TO PREVENT SOIL COMPACTION OF TOPSOILS DURING CONSTRUCTION/ RESTORATION WHEN FEASIBLE TO ACC

ANY COMPACTED TOPSOILS SHALL BE LOOSENED WHILE RESTORING FINAL GRADES FROM INTERIOR RESTORATION PORTIONS TOWARD THE PROPOSED SEEDMIX SHALL BE APPLIED ACCORDING TO THE SUPPLIERS INSTRUCTIONS. THE SEED MIX SHALL BE LIGHTLY RAKED I

PLUGS IN AREAS WITH POTENTIAL FOR FLOODING SHALL BE SECURED WITH WOODEN CHOPSTICKS INSERTED THOUGH THE SOIL PORTI EXISTING SOILS IN A MANNER THAT SECURES THE PLUG UNTIL ESTABLISHED. THE ANGLE OF THE WOODEN CHOPSTICKS WHEN INSERTE PERPENDICULAR TO THE GROUND SURFACE. SECURED BIODEGRADABLE JUTE NETTING MAY ALSO BE USED ALTERATIVELY TO SECURE

THE FINAL AMOUNT & COMPOSTIONS OF PLUGS MAY BE MODIFIED BY THE WETLAND SCIENTIST MONITOR TO ACCOMODATE EXISTING CONDIT DISTURBANCE BE REDUCED DURING CONSTRUCTION.

FOLLOWING COMPLETION OF THE WETLAND RESTORATION AREA, EROSION AND SEDIMENT

ATION CONTROL MEASURES SHALL BE IMPLEMENTED ALONG THE LANDWARD SIDE OF THE WETLAND RESTORATION AREA IN AREAS WHI UPGRADIENT.

ALL PLANTINGS SHALL BE NATIVE VARIETIES WITH NO LANDSCAPE CULTIVARS PROPOSED.

WORK ACTIVITY TIMING SHALL TAKE INTO CONSIDERATION POTENTIAL FOR RAIN CAUSED AND COASTAL RELATED FLOOD EVENTS WHEN WETLAND RESTORATION AREAS.

A DEWATERING PLAN SHALL BE PREPARED PRIOR TO CONSTRUCTION FOR ANY EXCAVATION WORK WITHIN WETLANDS.

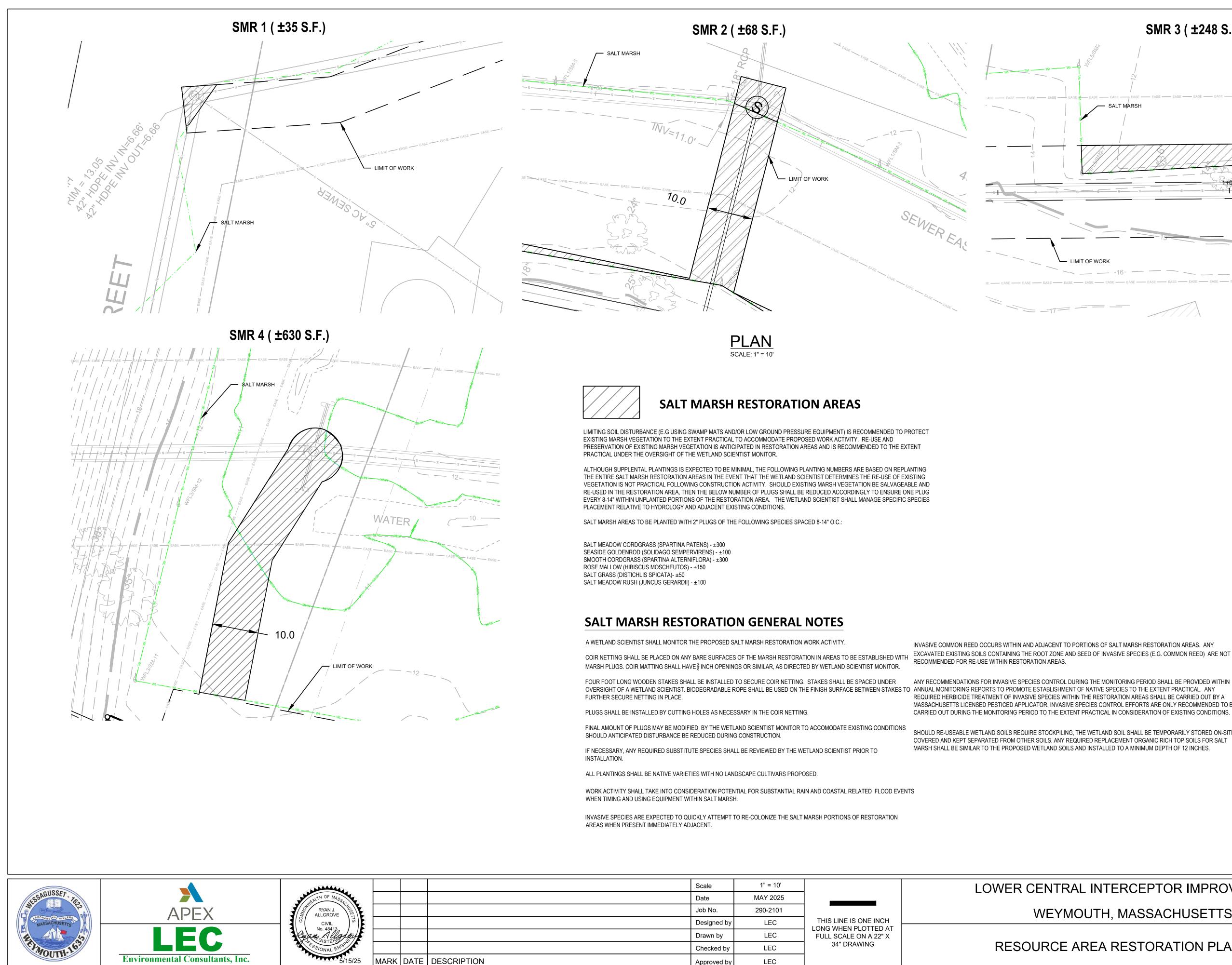
INVASIVE SPECIES ARE EXPECTED TO QUICKLY ATTEMPT TO RE-COLONIZE THE WETLAND RESTORATION AREAS WHEN INVASIVES ARE F ADJACENT.

INVASIVE COMMON REED & JAPANESE KNOTWEED OCCURS WITHIN AND ADJACENT TO PORTIONS OF WETLAND RESTORATION AREAS. CONTAINING THE ROOT ZONE OF INVASIVE SPECIES ARE NOT RECOMMENDED FOR RE-USE.

ANY RECOMMENDATIONS FOR INVASIVE SPECIES CONTROL DURING THE MONITORING PERIOD SHALL BE PROVIDED WITHIN ANNUAL MOI PROMOTE INITIAL ESTABLISHMENT OF NATIVE SPECIES TO THE EXTENT PRACTICAL. ANY REQUIRED HERBICIDE TREATMENT OF INVASIV RESTORATION AREAS SHALL BE CARRIED OUT BY A MASSACHUSETTS LICENSED PESTICED APPLICATOR. INVASIVE SPECIES CONTROL EI RECOMMENDED TO BE CARRIED OUT DURING THE MONITORING PERIOD TO THE EXTENT PRACTICAL IN CONSIDERATION OF EXISTING C A NATIVE CONSERVATION AND WILDLIFE SEEDMIX FROM NEW ENGLAND WETLAND PLANTS OR EQUIVALENT NATIVE MIX IS RECOMMEND ZONE AREAS.

LOWER CENTRAL INT			1" = 10'	Scale	
		MAY 2025	Date		
WEYMOUTH	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X	290-2101	Job No.	
			LEC	Designed by	
			LEC	Drawn by	
RESOURCE AREA		LEC	Checked by		
		LEC	Approved by		

0" RCP SEWER
NO ROI SEWER
ISE — EASE
TION WORK ACTIVITY WHERE
VETLAND TOPSOILS REQUIRE
INERAL SOIL. THE SOIL MIX ED BY THE WETLAND SCIENTIST
DF INVASIVE SPECIES. ENTIST SHALL BE ON-SITE DURING
DJACENT WETLANDS. FINAL JACENT ELEVATIONS.
COMMODATE WORK ACTIVITY. D THE UPLANDS.
NTO THE GROUND SURFACE. ON OF THE PLUG AND ADJACENT
ED IS AT AN ANGLE & NEAR PLUGS. FIONS SHOULD ANTICIPATED
IERE DISTURBED SOILS OCCUR
N USING EQUIPMENT WITHIN THE
PRESENT IMMEDIATELY
ANY EXCAVATED EXISTING SOILS
NITORING REPORTS TO /E SPECIES WITHIN THE
FFORTS ARE ONLY ONDITIONS. ED FOR DISTURBED BUFFER
TERCEPTOR IMPROVEMENTS FOR BID
H, MASSACHUSETTS
A RESTORATION PLAN II $C-/$



INVASIVE COMMON REED OCCURS WITHIN AND ADJACENT TO PORTIONS OF SALT MARSH RESTORATION AREAS. ANY

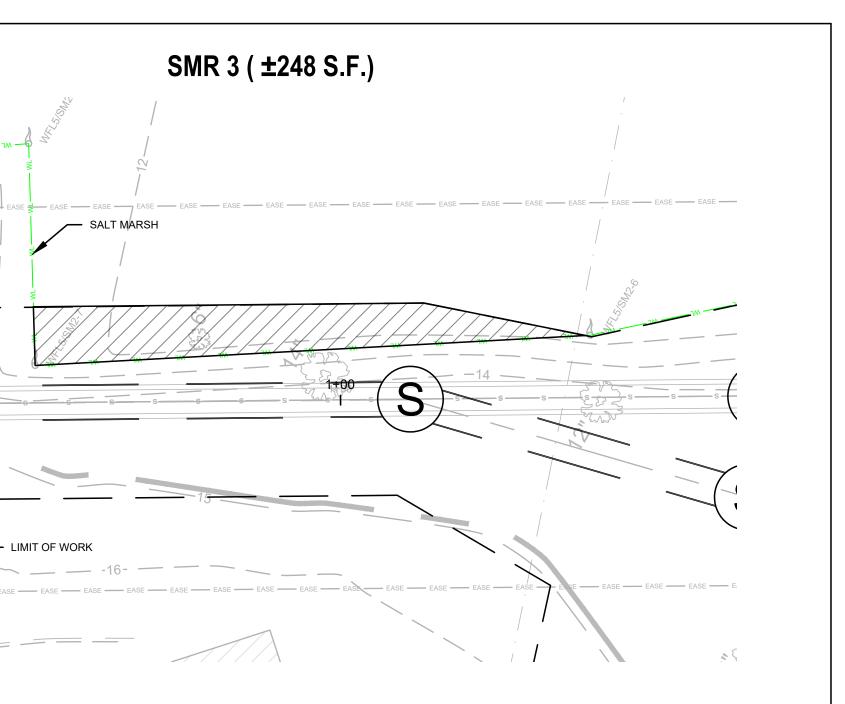
ANY RECOMMENDATIONS FOR INVASIVE SPECIES CONTROL DURING THE MONITORING PERIOD SHALL BE PROVIDED WITHIN REQUIRED HERBICIDE TREATMENT OF INVASIVE SPECIES WITHIN THE RESTORATION AREAS SHALL BE CARRIED OUT BY A MASSACHUSETTS LICENSED PESTICED APPLICATOR. INVASIVE SPECIES CONTROL EFFORTS ARE ONLY RECOMMENDED TO BE CARRIED OUT DURING THE MONITORING PERIOD TO THE EXTENT PRACTICAL IN CONSIDERATION OF EXISTING CONDITIONS.

SHOULD RE-USEABLE WETLAND SOILS REQUIRE STOCKPILING, THE WETLAND SOIL SHALL BE TEMPORARILY STORED ON-SITE, COVERED AND KEPT SEPARATED FROM OTHER SOILS. ANY REQUIRED REPLACEMENT ORGANIC RICH TOP SOILS FOR SALT MARSH SHALL BE SIMILAR TO THE PROPOSED WETLAND SOILS AND INSTALLED TO A MINIMUM DEPTH OF 12 INCHES.

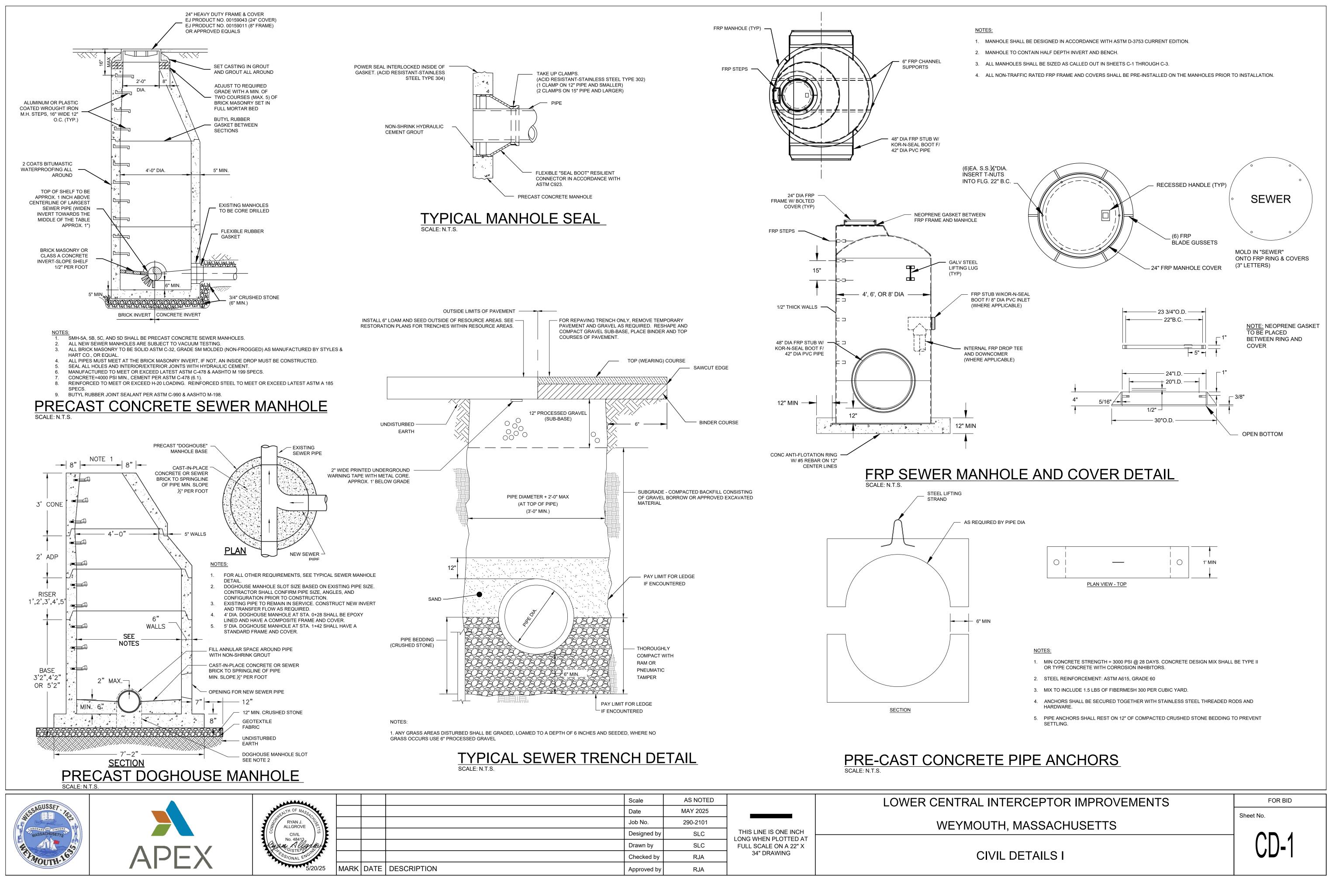
Scale	1" = 10'	
Date	MAY 2025	
Job No.	290-2101	
Designed by	LEC	L
Drawn by	LEC	
Checked by	LEC	
Approved by	LEC	

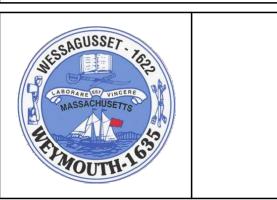
LOWER CENTRAL IN

WEYMOUTH

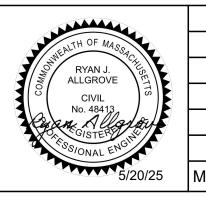


TERCEPTOR IMPROVEMENTS	FOR BID
H, MASSACHUSETTS	Sheet No.
RESTORATION PLAN III	C-8





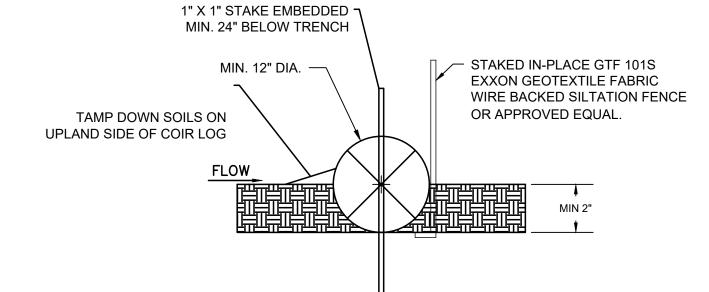




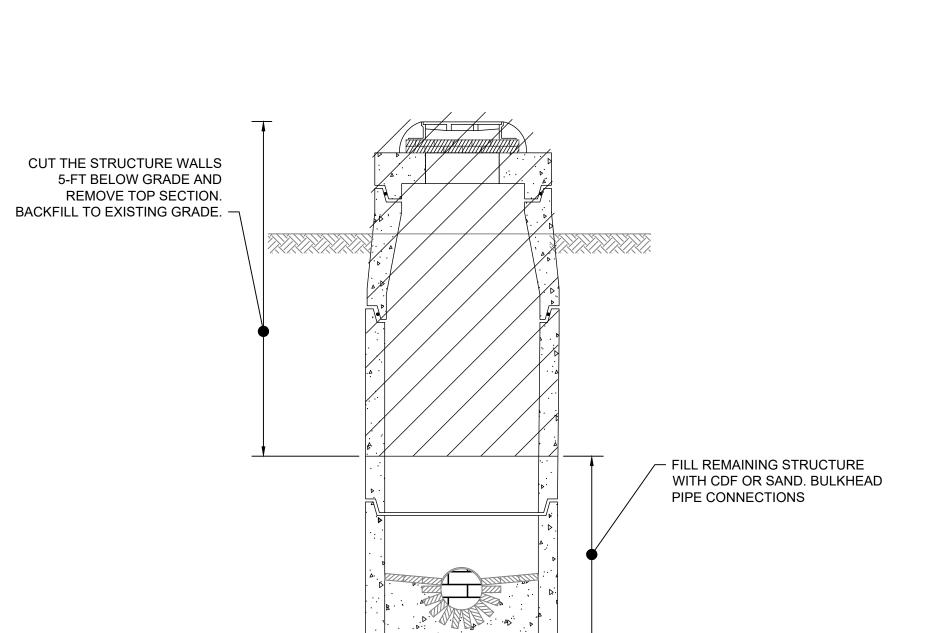
MARK DATE DESCRIPTION

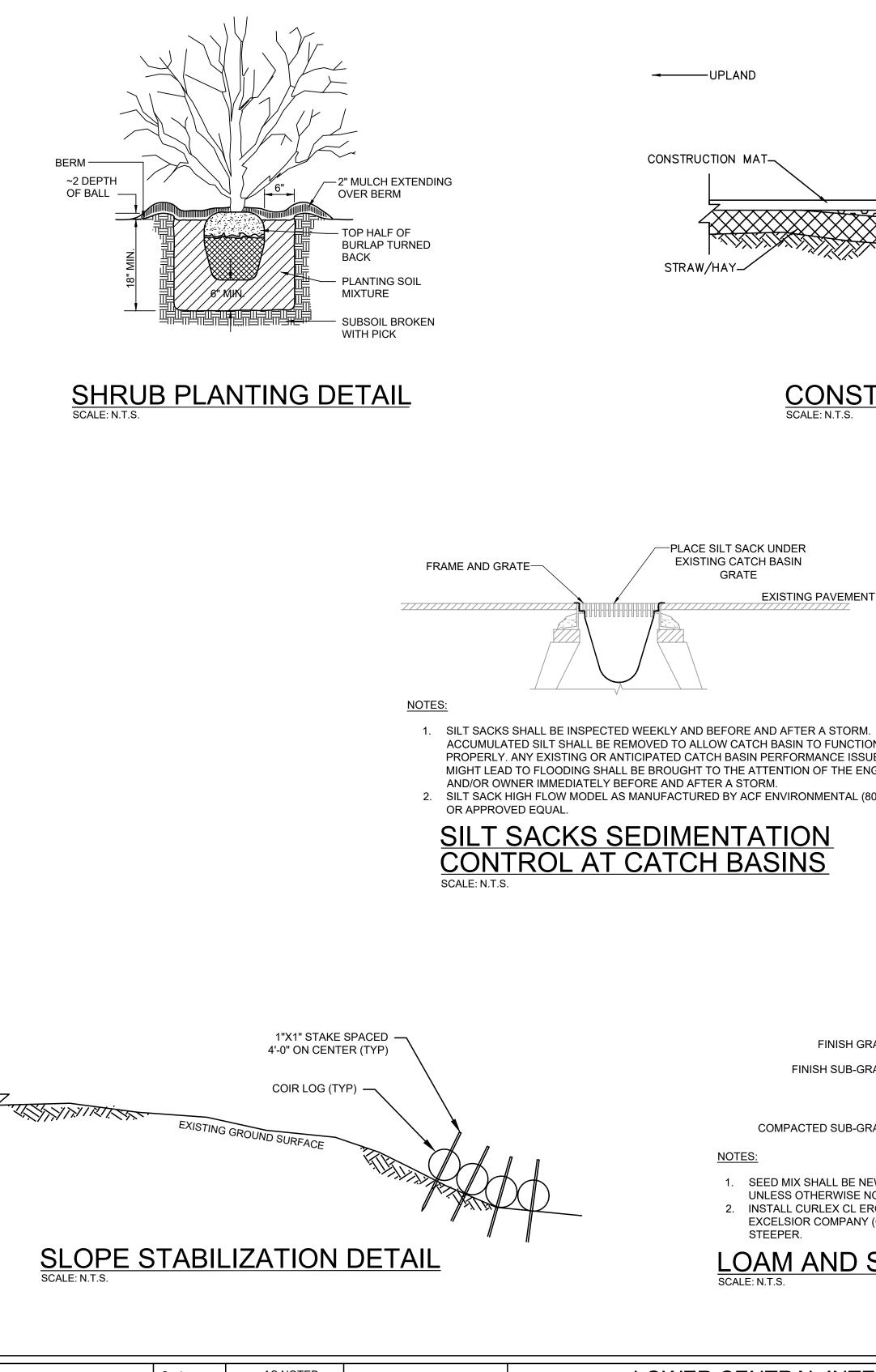
SILT FENCE / COIR LOG DETAIL SCALE: N.T.S.

- 4. COIR LOGS BE MAINTAINED THROUGHOUT CONSTRUCTION. TRENCHES SHALL BE DRESSED WITH LOAM AND SEEDED AFTER REMOVAL OF COIR LOGS.
- 3. SPACE STAKES 4'0" ON CENTER.
- DOWNGRADIENT) WITHIN ANY RESOURCE AREAS AS SHOWN ON THE PLANS.
- 2. SILT FENCE/COIR LOGS SHALL BE INSTALLED ALONG THE LIMIT OF WORK (UPGRADIENT AND
- NOTES: 1. COIR LOGS SHALL BE FILLED WITH DECORTICATED COCONUT FIBERS AND CONTAINED WITHIN DURABLE POLYPROPYLENE NETTING.









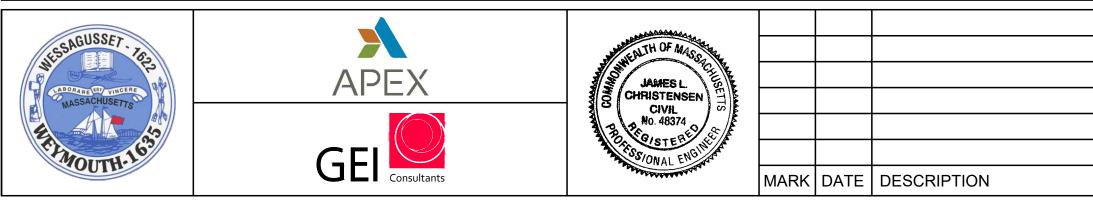
UPLAND CONSTRUCTION LIMIT OF WORK	IILL BROOK
CONSTRUCTION MAT	
EXISTING GROUND SURFACE	-WIRE BACKED SILT FENCE
CCC	 DIR LOG
CONSTRUCTION MAT DETAIL SCALE: N.T.S.	
PLACE SILT SACK UNDER EXISTING CATCH BASIN GRATE EXISTING PAVEMENT	
WEEKLY AND BEFORE AND AFTER A STORM. MOVED TO ALLOW CATCH BASIN TO FUNCTION ICIPATED CATCH BASIN PERFORMANCE ISSUES THAT BE BROUGHT TO THE ATTENTION OF THE ENGINEER FORE AND AFTER A STORM. MANUFACTURED BY ACF ENVIRONMENTAL (800-448-3636)	
EDIMENTATION	
CATCH BASINS	
FINISH GRADE	
 NOTES: SEED MIX SHALL BE NEW ENGLAND CONSERVATION SEED MIX, FREE OF FERTILIZERS, UNLESS OTHERWISE NOTED IN THE RESTORATION PLANS INSTALL CURLEX CL EROSION CONTROL BLANKET AS MANUFACTURED BY AMERICAN EXCELSIOR COMPANY (OR APPROVED EQUAL) ON ALL LOAM AND SEEDED SLOPES 3:1 OR 	
STEEPER. LOAM AND SEED (DISTURBED AREAS)	
SCALE: N.T.S.	
LOWER CENTRAL INTERCEPTOR IMPROVEMENTS	FOR BID Sheet No.
WEYMOUTH, MASSACHUSETTS	CD-2
CIVIL DETAILS II	

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

Scale	AS NOTED
Date	MAY 2025
Job No.	290-2101
Designed by	SLC
Drawn by	SLC
Checked by	RJA
Approved by	RJA

GE	NERAL	NOTES:		SOI
1.	THES	E DRAWINGS ARE FOR THE SUPPORT OF EXC	AVATION (SOE) TO FACILITATE INSTALLATION OF A	
	60-IN STRIC	CH-DIAMETER CASING PIPE BELOW THE MBTA CTLY LIMITED TO THE INSTALLATION OF THE S	RAILROAD. THE INFORMATION PROVIDED ON THESE DRAWINGS IS SUPPORT OF EXCAVATION SYSTEM REQUIRED TO INSTALL JACKING ED TO SUPPORT THE CONSTRUCTION OF THE JACKED PIPE.	1. 2.
2.		E DRAWINGS DO NOT ADDRESS SAFETY ISSU HE CONTRACTOR.	ES RELATED TO THE WORK. SITE SAFETY IS THE RESPONSIBILITY	3.
3.		BACKGROUND DRAWINGS ARE FROM AUTOCA JP, ON 7/25/2024.	D FILES PROVIDED VIA EMAIL FROM ENVIRONMENTAL PARTNERS	4.
4.	AND TO TH MATE	SHALL CAREFULLY COMPARE SUCH FIELD ME HE CONTRACTOR, WITH THE CONTRACT DOCL	ISIONS, ELEVATIONS, OPENINGS AND VERIFY FIELD CONDITIONS ASUREMENTS AND CONDITIONS AND OTHER INFORMATION KNOWN JMENTS, BEFORE COMMENCING WORK AND PRIOR TO ORDERING ONSISTENCIES DISCOVERED, WHICH MAY INTERFERE WITH THE PORTED TO THE ENGINEER IMMEDIATELY.	5.
5.	UTILI		ENT, ETC. SHALL RELY ON DIMENSIONS, GRADES, LOCATIONS OF ILITIES OR OTHER INFORMATION WITHOUT INDEPENDENTLY ION.	7.
6.		ATIONS ARE PROVIDED ON THESE DRAWINGS .63 NAVD88)	REFERENCE THE TOWN OF WEYMOUTH VERTICAL DATUM (EL. 0 =	
7.		TION OF EXISTING STRUCTURES THAT WILL F	EMAIN DURING CONSTRUCTION TO BE VERIFIED IN FIELD PRIOR TO	DES 1.
8.	ALL V	VORK SHOWN SHALL BE INSTALLED IN ACCOR	DANCE WITH INDUSTRY STANDARD PRACTICES.	
9.	THES	E DRAWINGS SHOULD NOT BE SCALED. PRINT	ED DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS.	0
10.	ELEN		AD ARE PROVIDED SOLELY FOR USE IN LOCATING THE SOE E THE PERMANENT STRUCTURE USING THESE DIMENSIONS FROM	2. 3.
11.	PRO\	IDE SAFE ACCESS TO THE WORK AREA FOR 1	THE ENGINEER TO OBSERVE THE WORK.	٨
12.	LOWE		IENT. DO NOT EXCAVATE MORE THAN 2 FEET IN ADVANCE OF THE E HEIGHT OF UN-LAGGED FACE IF THE SOIL TO BE RETAINED IS	4. 5.
13.	MAIN	TAIN GROUND WATER A MINIMUM OF 2FT BEL	OW BOTTOM OF EXCAVATION AT ALL TIMES.	
				<u>CO</u>
MC	NITOR	ING NOTES:		SUE
1.	SIDE		. MOVEMENT USING SURVEY PRISMS (TWO PRISMS ON EACH JRVEY THE PRISMS WITH A TOTAL STATION WITH AN ACCURACY	1.
2.	OBTA	IN BASELINE READINGS TAKEN PRIOR TO THE	START OF EXCAVATION AND PROVIDE DATA TO THE ENGINEER.	2.
3.	WEE		ADINGS PER WEEK TO THE ENGINEER. DATA FOR THE PREVIOUS OF THE FOLLOWING WEEK. NOTICE OF MOVEMENTS BEYOND 1/2" THE READINGS.	
М	ATERIA	ALS:		3.
1.	STR	UCTURAL MEMBERS SHALL CONFORM TO TH	E FOLLOWING MINIMUM SPECIFICATION:	4.
	a.	WALES, BEAMS & CHANNELS:	ASTM A572 OR A992, FY = 50 KSI	
	b.	PLATES:	ASTM A572, FY = 50 KSI	
	C.	MICROPILE SOLDIER PILES:	API N80 MILL SECONDARY	
	d.	THREADED BAR:	ASTM A615, GR 75	AB
	e.	THREADED STUDS:	NELSON CFL FULLY THREADED STUD, MILD STEEL Fy=50KSI	C
	f.	WELDING:	E70XX ELECTRODES	E
	g.	GROUT:	5,000 PSI MIN. 28-DAY UNCONFINED COMP. STRENGTH	E
2.	-		CUT, FULL DIMENSION, 3" THICK. WITH A MINIMUM FB=1,200 PSI.	EX
2. 3.			COATED, STEEL CASING WITH THREADED JOINTS.	R
			,	Ϋ́

- 4. THREADED JOINTS SHALL PROVIDE A MINIMUM STRENGTH OF 50% BENDING CAPACITY OF THE FULL PILE SECTION.
- 5. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN SOCIETY FOR WELDING IN BUILDINGS AND CONSTRUCTION AWS D1.1.



LDIER PILE NOTES:

SOLDIER PILES WILL BE DRILLED FROM EXISTING GRADE.

- DRILLING WILL BE BY INTERNAL FLUSH DUPLEX DRILLING METHOD. THE CONTRACTOR SHALL ADJUST THE DRILLING PROCEDURE AS REQUIRED TO PREVENT LOSS OF GROUND, SETTLEMENT AND/OR LATERAL MOVEMENT OF BUILDINGS, UTILITIES AND OTHER STRUCTURES.
- UPON ACHIEVING THE DESIGN DEPTH, COMPLETELY FLUSH THE CASING UNTIL CLEAN RETURN IS OBSERVED.
- AFTER THE CASING IS FLUSHED CLEAN, REMOVE THE INNER DRILL RODS AND TREMIE GROUT THE CASING WITH NEAT CEMENT GROUT OR SAND-CEMENT GROUT.
- INSTALL FULL LENGTH INNER CASING AS NEEDED FOR PILES CALLED OUT AS PIPE-IN-PIPE WITHIN THIS DRAWING SET.
- INSTALL TIMBER LAGGING TIGHT AGAINST THE SOIL. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH SOIL PLACED THROUGH THE GAPS BETWEEN THE LAGGING BOARDS. PACK THE GAPS AS NECESSARY TO PREVENT LOSS OF SOIL THROUGH THE GAPS.
- USE FILTER FABRIC OR HAY BETWEEN LAGGING BOARDS TO PROMOTE DRAINAGE AND PREVENT LOSS OF FINES.

SIGN REFERENCES AND CRITERIA:

- THE EAST, WEST, AND SOUTH WALLS OF JACKING PIT AND EAST, WEST, AND NORTH WALLS OF RECEIVING PIT WERE DESIGNED FOR A 600 PSF VERTICAL CONSTRUCTION SURCHARGE 2 FEET BEHIND THE WALL.
- THE SOUTH WALL OF THE JACKING PIT WAS DESIGNED FOR A UNIFORM JACKING LOAD OF 400 KIPS UNIFORMLY DISTRIBUTED OVER A HEIGHT OF 5 FEET ACROSS FOUR PILES.
- NO CONSTRUCTION SURCHARGE IS PERMITTED ON THE NORTH AND SOUTH SLOPES OF THE RAILROAD EMBANKMENT.
- COOPER E80 LOADING ON THE RAILROAD EMBANKMENT WAS INCLUDED IN THE DESIGN OF THE JACKING AND RECEIVING PITS.
- DEWATERING ASSUMED TO BE ACTIVE DURING CONSTRUCTION AND EXCAVATION ASSUMED TO BE DRY.

NTRACTOR SUBMITTALS:

BMIT THE FOLLOWING AT LEAST FOUR WEEKS PRIOR TO MOBILIZATION:

- ALL CONTRACTOR SUBMITTALS TO BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
- MICROPILE BOND LENGTH DESIGN.
- A. PLUMB MICROPILES WITH BOND ZONES, SERVICE DESIGN TENSION FORCE = 100 KIPS AND MINIMUM BENDING MOMENT OF 51 KIP-FT.
- B. BATTERED MICROPILES, SERVICE DESIGN COMPRESSION FORCE = 328 KIPS.
- THRUST BLOCK DESIGN.
- BREAKTHROUGH DETAILS TO PREVENT SOIL FROM ENTERING JACKING AND RECEIVING PITS WHEN PIPE PENETRATES THE LAGGING AT THE UPHILL SIDES OF EXCAVATION.

BREVIATIONS

CL	CENTERLINE
EA	EACH
EL	ELEVATION
EXIST	EXIST
RR	RAILROAD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

GENERAL CONSTRUCTION SEQUENCE:

- 3. INSTALL BRACING.
- SUBGRADE ELEVATION.
- 5. INSTALL STONE BASE AND/OR CONCRETE BASE SLAB.
- 6. INSTALL REACTION FRAME IN JACKING PIT.
- 7. INSTALL STEEL CASING PIPE.
- 8. INSTALL SEWER.
- 10. REMOVE BRACING.
- 11. CUT MICROPILES 3-FEET BELOW GRADE.

SHEET NO.	TITLE
SOE-001	GENERAL NO
SOE-002	SOE PLAN AI
SOE-003	RECEIVING F
SOE-004	JACKING PIT
SOE-005	DETAILS

SHEET INDEX

LOWER CENTRAL IN1	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	N/A	Scale			
				MAY 2025	Date	
WEYMOUT		290-2101	Job No.			
		B. KARIM	Designed by			
		D. CHECHURIN	Drawn by			
GENERAL NOT		C. HOPLIN	Checked by			
		J. CHRISTENSEN	Approved by			

1. INSTALL MICROPILE SOLDIER PILES AND BATTERED MICROPILES. 2. EXCAVATE & INSTALL LAGGING TO 2 FEET BELOW THE CENTERLINE OF THE TOP BRACE.

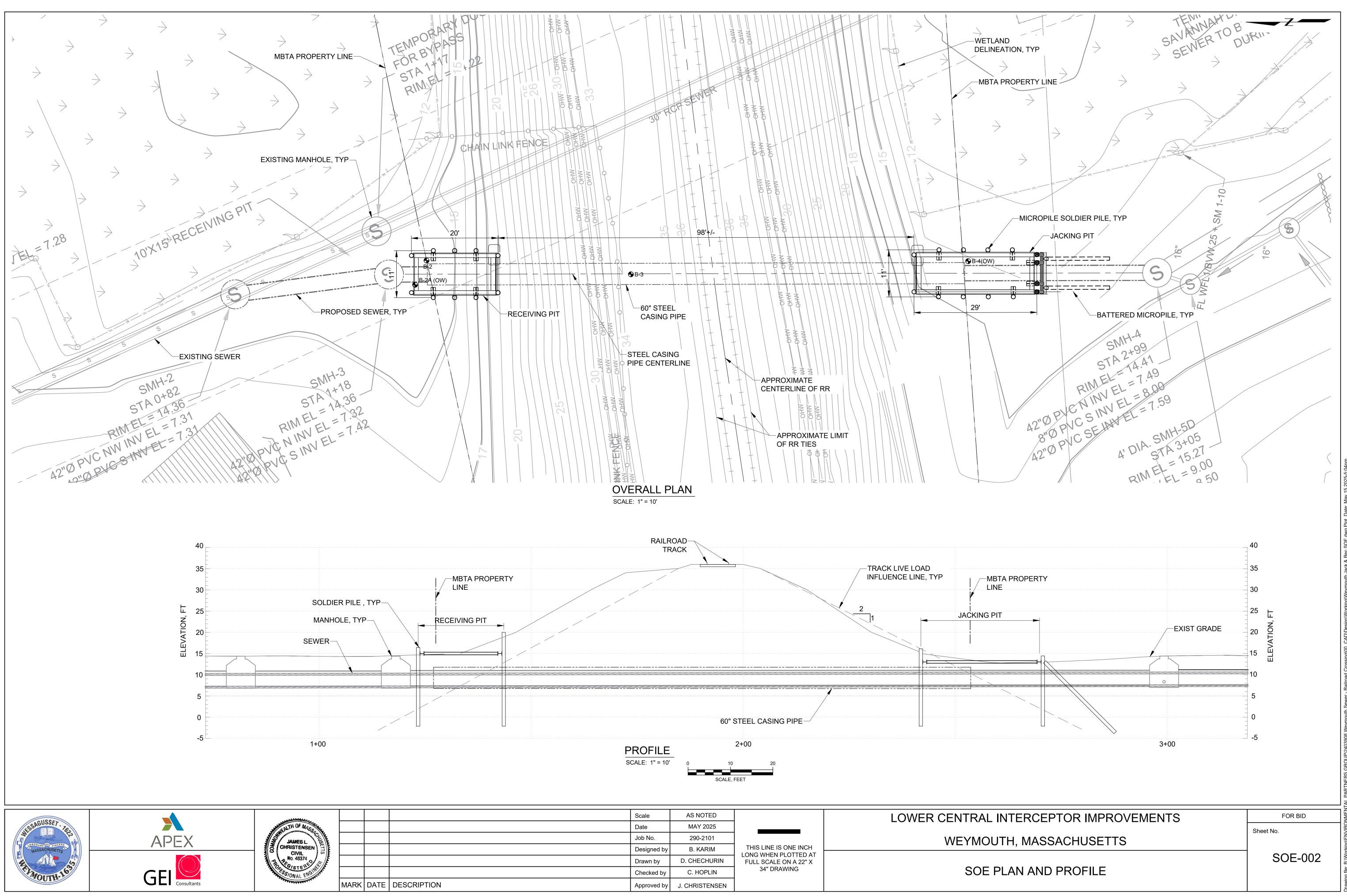
4. EXCAVATE & INSTALL LAGGING TO FINAL SUBGRADE. DEWATER TO MAINTAIN GROUNDWATER 2-FEET BELOW

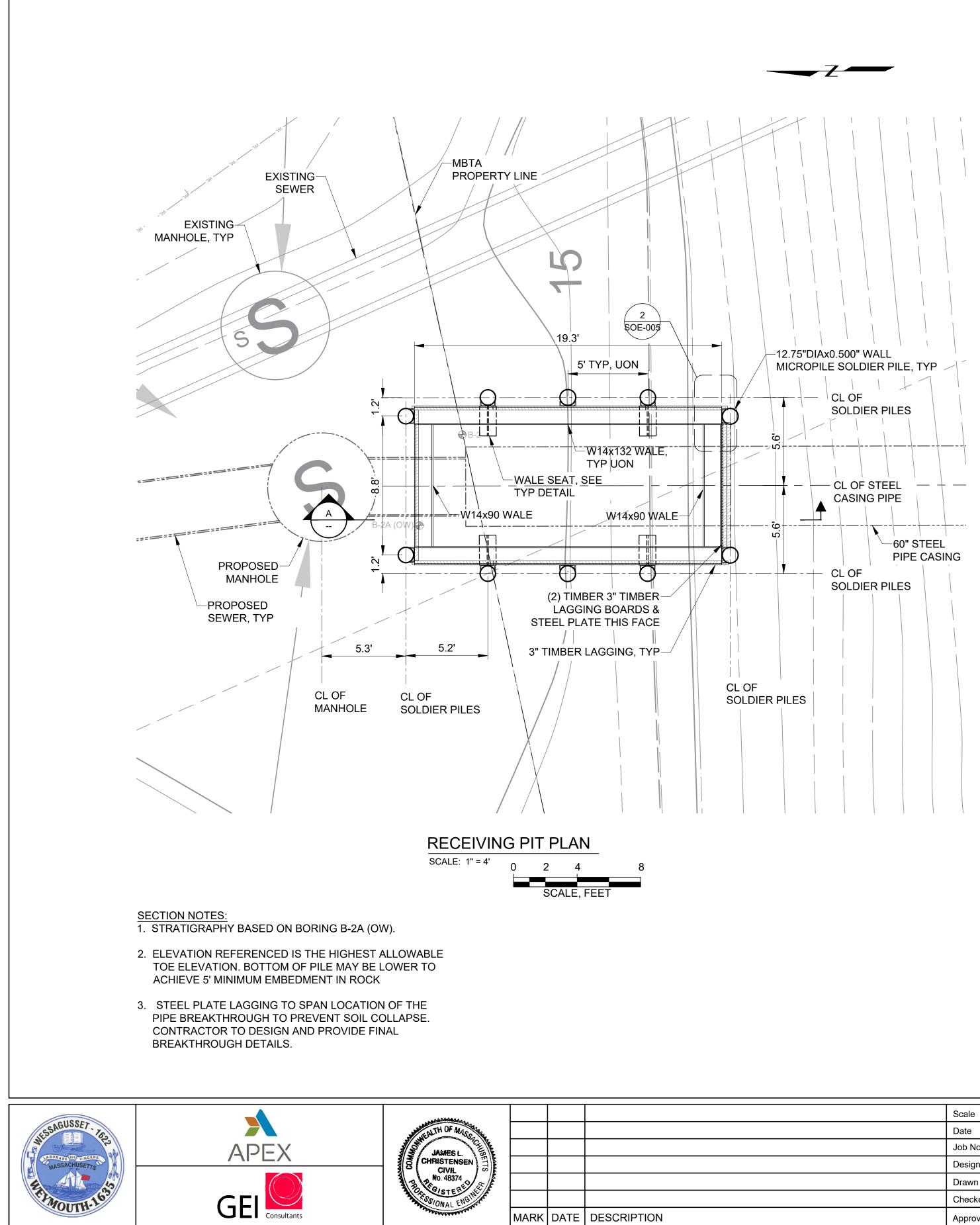
9. BACKFILL EXCAVATION TO WITHIN 2-FEET OF BRACING IN ACCORDANCE WITH PROJECT REQUIREMENTS.

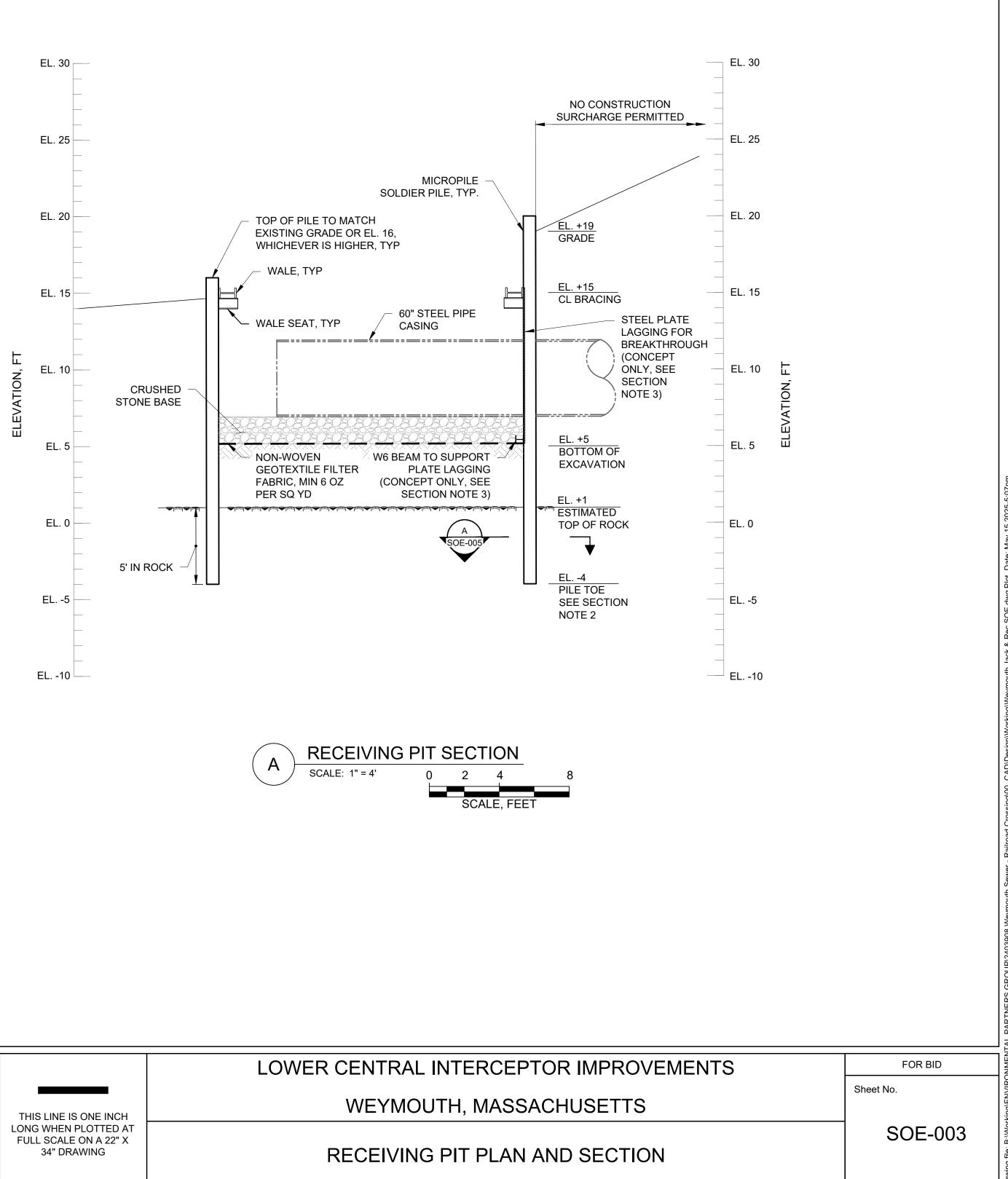
12. COMPLETE BACKFILLING IN ACCORDANCE WITH PROJECT REQUIREMENTS.

NOTES AND DRAWING INDEX AND PROFILE **PIT PLAN AND SECTION** T PLAN AND SECTION

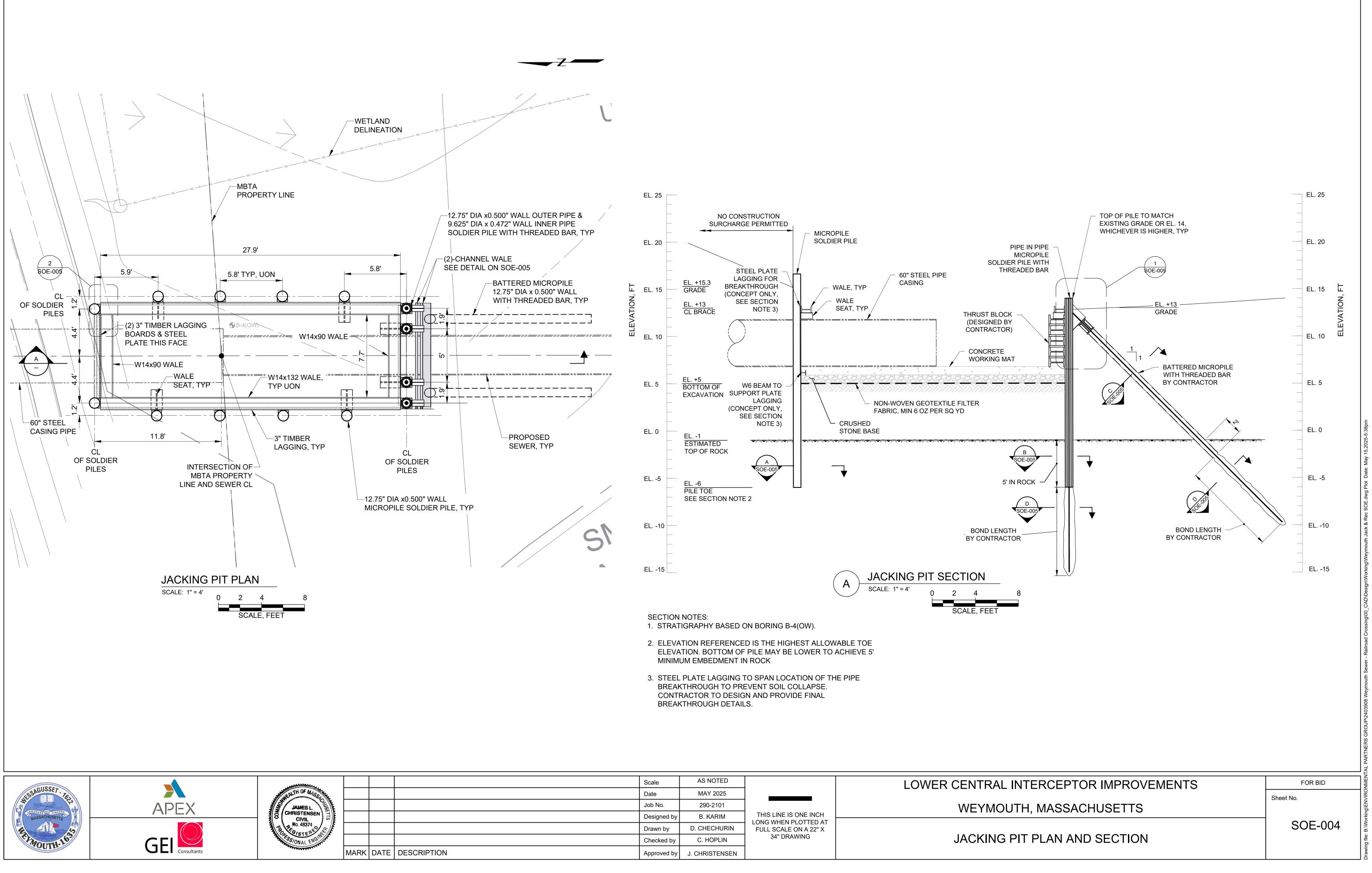
TERCEPTOR IMPROVEMENTS	FOR BID
H, MASSACHUSETTS	Sheet No.
ES AND DRAWING INDEX	SOE-001



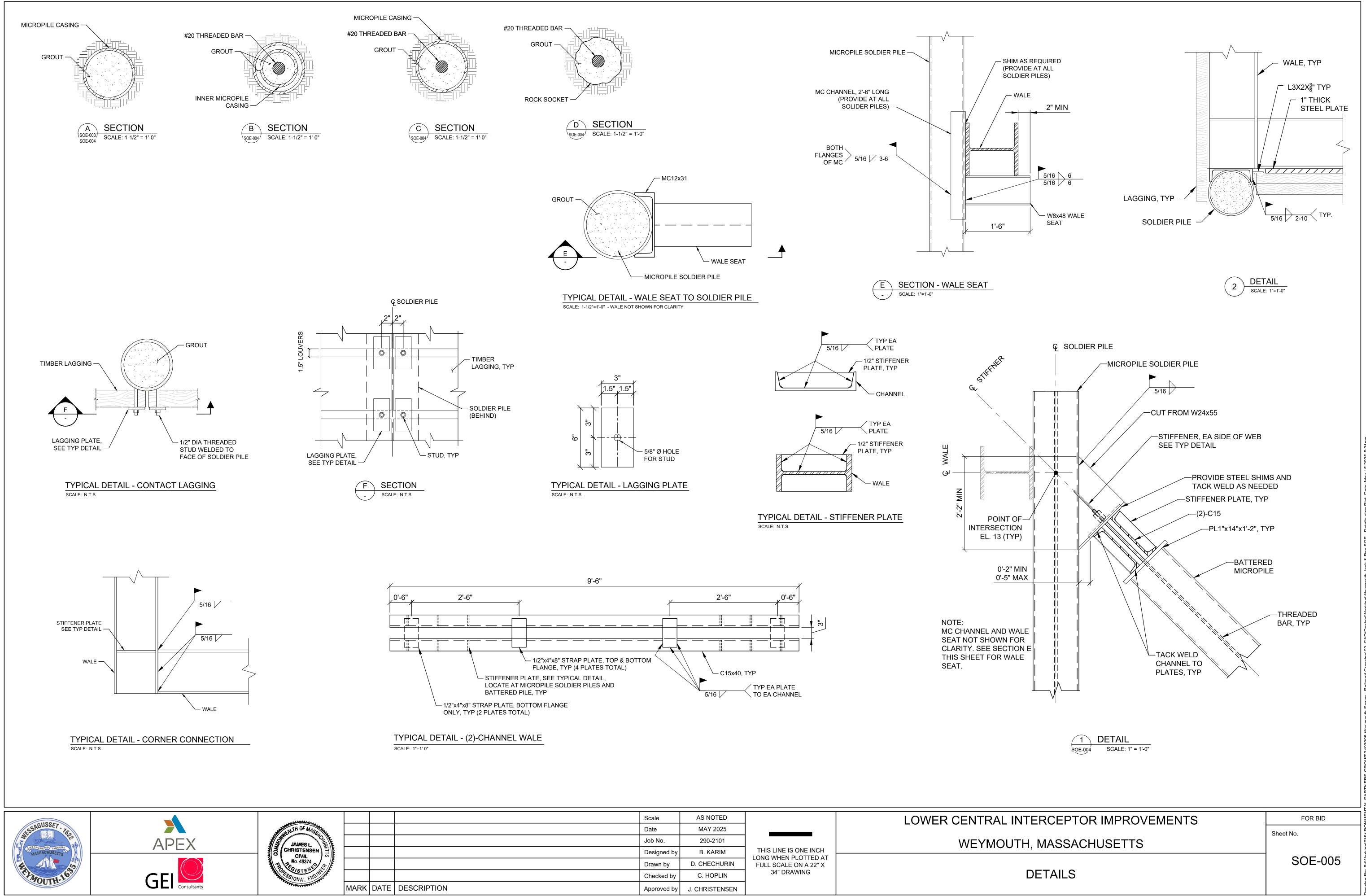




LOWER CENTRAL IN	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X	AS NOTED	Scale	
		MAY 2025	Date	
WEYMOU		290-2101	Job No.	
		B. KARIM	Designed by	
		D. CHECHURIN	Drawn by	
RECEIVING		C. HOPLIN	Checked by	
		J. CHRISTENSEN	Approved by	



LOWER CENTRAL INTI WEYMOUTH,		AS NOTED	Scale	
	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	MAY 2025	Date	
		290-2101	Job No.	
		B. KARIM	Designed by	
		D. CHECHURIN	Drawn by	
JACKING PIT		C. HOPLIN	Checked by	
		J. CHRISTENSEN	Approved by	



LOWER CENTRAL IN		AS NOTED	Scale	
		MAY 2025	Date	
WEYMOU		290-2101	Job No.	
WE INCOM	THIS LINE IS ONE INCH	B. KARIM	Designed by	
	- LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	D. CHECHURIN	Drawn by	
		C. HOPLIN	Checked by	
		J. CHRISTENSEN	Approved by	

GE	INERAL NOTES:	DE
1.	THESE DRAWINGS ARE FOR THE SCHEMATIC DESIGN FOR DEWATERING TO FACILITATE INSTALLATION OF A 60-INCH-DIAMETER CASING PIPE BELOW THE MBTA RAILROAD. THE INFORMATION PROVIDED ON THESE DRAWINGS IS STRICTLY LIMITED TO THE DEWATERING NEEDED TO SUPPORT THE CONSTRUCTION OF THE JACKED PIPE.	1.
2.	THESE DRAWINGS DO NOT ADDRESS SAFETY ISSUES RELATED TO THE WORK. SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.	2.
3.	ALL BACKGROUND DRAWINGS ARE FROM AUTOCAD FILES PROVIDED VIA EMAIL FROM ENVIRONMENTAL PARTNERS GROUP, ON 7/25/2024.	3.
4.	THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, OPENINGS AND VERIFY FIELD CONDITIONS AND SHALL CAREFULLY COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS AND OTHER INFORMATION KNOWN TO THE CONTRACTOR, WITH THE CONTRACT DOCUMENTS, BEFORE COMMENCING WORK AND PRIOR TO ORDERING MATERIALS AND DETAILS. DISCREPANCIES OR INCONSISTENCIES DISCOVERED, WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE WORK, SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.	4. 5.
5.	NO CONTRACTOR, SUBCONTRACTOR, OWNER, AGENT, ETC. SHALL RELY ON DIMENSIONS, GRADES, LOCATIONS OF UTILITY LINES, AND LOCATIONS OF ADJACENT FACILITIES OR OTHER INFORMATION WITHOUT INDEPENDENTLY VERIFYING THE CORRECTNESS OF THE INFORMATION.	6.
6.	ELEVATIONS ARE PROVIDED ON THESE DRAWINGS REFERENCE THE TOWN OF WEYMOUTH VERTICAL DATUM (EL. 0 = EL6.63 NAVD88)	
7.	PRIOR TO THE START OF WORK, VERIFY THE LOCATION OF EXISTING STRUCTURES THAT WILL REMAIN.	7.
8.	ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICES.	
9.	THESE DRAWINGS SHOULD NOT BE SCALED. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS.	8.
10.	DIMENSIONS BETWEEN THE DEWATERING WELLS AND THE RAILROAD ARE PROVIDED SOLELY FOR USE IN LOCATING THE WELL ELEMENTS. THE CONTRACTOR SHALL NOT LOCATE THE PERMANENT STRUCTURE USING THESE DIMENSIONS OR FROM AS-BUILT SUPPORT OF EXCAVATION LOCATIONS.	
11.	INSTALLATION, OPERATION AND DECOMMISSIONING OF THE DEWATERING SYSTEM SHALL NOT FOUL THE RAILROAD BALLAST.	9.
12.	CONTAMINATED BALLAST SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF MBTA AT NO ADDITIONAL COST TO THE OWNER.	10.
13.	PROVIDE SAFE ACCESS TO THE WORK AREA FOR THE ENGINEER TO OBSERVE THE WORK.	
14.	OBTAIN ALL NECESSARY PERMITS PRIOR TO THE START OF WORK.	11.
15.	MONITOR THE RAILS FOR MOVEMENT THROUGHOUT THE DEWATERING PROGRAM IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.	12.
16.	MONITOR GROUND WATER LEVELS CONTINUOUSLY USING VIBRATING WIRE PIEZOMETERS INSTALLED IN THE OBSERVATION WELLS.	13.
<u>co</u>	ONTRACTOR SUBMITTALS:	14.
1.	SUBMIT THE FOLLOWING AT LEAST FOUR WEEKS PRIOR TO MOBILIZATION. SUBMITTALS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS AND ENGAGED BY THE CONTRACTOR.	15.
1 1 1	 DEEP WELL DESIGN AND FINAL LAYOUT. SHOP DRAWINGS FOR DEEP WELLS. SUMP PIT LAYOUT AND DESIGN. DEWATERING EQUIPMENT AND DETAILS. GROUNDWATER SEDIMENTATION/TREATMENT SYSTEM DETAILS. 	16.

- EFFLUENT DISCHARGE DETAILS INCLUDING VELOCITY DISSIPATION DETAILS. 1.6.
- 1.7. DECOMMISSIONING PROCEDURES AND DETAILS.



EWATERING NOTES:

- THE FOLLOWING DEWATERING NOTES ARE TO BE USED IN CONJUNCTION WITH REQUIREMENTS OUTLINED IN THE ORDER OF CONDITIONS AND SPECIFICATION SECTION 02140.
- THE SCHEMATIC DEWATERING DESIGN PRESENTED IS BASED ON THE SUBSURFACE CONDITIONS AT THE BORING LOCATIONS SHOWN. SUBSURFACE CONDITIONS ARE ASSUMED TO BE CONSISTENT BETWEEN BORINGS. WHERE CONDITIONS VARY, ADJUSTMENTS TO THE LAYOUT OR QUANTITY OF DEWATERING WELLS MAY BE REQUIRED.
- THE DEWATERING SYSTEM SHALL CONSIST OF A MINIMUM OF 13 WELLS APPROXIMATELY AS SHOWN IN THESE PLANS. SEE PLAN (DW-002) FOR LOCATIONS, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.
- THE DEWATERING WELLS SHOWN ON THE CONTRACT DRAWINGS ARE TO BE CONSIDERED THE MINIMUM AMOUNT TO COMPLETE THE WORK AND SHOULD BE USED FOR BIDDING PURPOSES ONLY.
- THE CONTRACTOR SHALL PREPARE THEIR OWN DEWATERING SYSTEM DESIGN THAT IS DESIGNED IN CONJUNCTION WITH THE JACKING/RECEIVING PITS AND MEETS THE REQUIREMENTS HEREIN. THE DESIGN SHALL BE STAMPED BY A MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER ENGAGED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO INSTALL THE JACKING/RECEIVING PITS AND DEWATERING SYSTEM AND ANY PERMITS TO DISCHARGE DEWATERING EFFLUENT INTO LOCAL STORM DRAINS OR INTO WATER WAYS, INCLUDING TESTING AND PRETREATMENT OF DEWATERING EFFLUENT.
- SUBMIT THE CONTRACTOR DEWATERING SYSTEM DESIGN TO THE ENGINEER FOR REVIEW, APPROVAL AND ACCEPTANCE PRIOR TO INSTALLATION.
- EACH 8-IN (NOM.) DIAMETER WELL SHALL BE INSTALLED WITHIN A 24-IN DIAMETER BOREHOLE AND SHALL HAVE A 15-FT SLOTTED SCREENED ZONE. SLOT SIZE SHALL BE 0.02IN (20 SLOT) UNLESS OTHERWISE REQUIRED BASED ON THE SELECTED FILTER. PVC RISER SHALL BE PLACED ABOVE THE SCREENED ZONE. WELL SPECIFICS TO BE PROVIDED BY CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.
- FILTER PACK SHALL BE PLACED WITHIN THE SCREENED ZONE OF THE WELL. DESIGN WELL FILER GRADATION TO BE VERIFIED BASED ON IN-SITU CONDITIONS. THE REMAINDER OF THE BOREHOLE WILL BE FILLED WITH CLEAN SAND TO GROUND SURFACE.
- INSTALL 1-INCH-DIAMETER STANDPIPES TO THE BOTTOM OF EACH WELL TO MONITOR WELL PERFORMANCE AND WATER LEVELS.
- INSTALL PIEZOMETERS INTO ROCK AT JACKING/RECEIVING PITS AND ALONG THE PIPE RUN TO MONITOR GROUNDWATER DRAWDOWN.
- EACH WELL SHALL BE FURNISHED WITH AN ELECTRIC WELL PUMP CAPABLE OF MAINTAINING THE ESTIMATED FLOW RATES PER THE DESIGN SUBMITTAL.
- STANDBY EQUIPMENT AND STANDBY POWER SUPPLY SHALL BE PROVIDED.
- CONTRACTOR MAY CONSIDER WELLPOINTS FOR SHALLOW WELLS.
- DISCHARGE, TREATMENT AND MONITORING OF GROUNDWATER SHALL BE CONDUCTED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A MINIMUM, PUMPED GROUNDWATER SHALL PASS THROUGH A SEDIMENTATION TANK AND DEWATERING SEDIMENT BAG(S) PRIOR TO DISCHARGE. DISCHARGE FLOW TO BE MONITORED AND SAMPLED AT THE FREQUENCY REQUIRED BY APPLICABLE PERMITS.
- MAINTAIN THE WELLS AND EQUIPMENT THROUGHOUT THE DEWATERING PROGRAM.

DEEP WELL CONSTRUCTION SEQUENCE:

ABBREVIATIONS CENTERLINE CL FACH EA FI EXIS

EA	EACH
EL	ELEVATION
EXIST	EXIST
RR	RAILROAD
TYP	TYPICAL
UON	UNLESS O

Scale	N/A		LOWER CENTRAL INTERCEPTOR IMPROVEMENTS	FOR BID
Date	MAY 2025			Sheet No.
Job No.	290-2101		WEYMOUTH, MASSACHUSETTS	
Designed by	J. CHRISTENSEN	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT		
Drawn by	D. CHECHURIN	FULL SCALE ON A 22" X		DW-001
Checked by	D. PECORINI	34" DRAWING	DEWATERING NOTES	
Approved by	J. CHRISTENSEN			

1. LAYOUT AND INSTALL A MINIMUM OF ONE (1) WELL AND ANCILLARY PIPING TO SEDIMENTATION TANK(S). WELL AND ANCILLARY PIPING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE TO CONTRACT REQUIREMENTS.

2. DEVELOP WELL(S) THAT HAVE BEEN INSTALLED AND PERFORM PUMP TEST.

3. EVALUATE AQUIFER CHARACTERISTICS BASED ON THE RESULTS OF THE PUMP TEST. WELL SYSTEM SPACING, NUMBER, FILER CRITERIA AND DEPTHS WILL BE ADJUSTED BASED ON THE RESULTS OF THE PUMP TEST.

4. LAYOUT AND INSTALL REMAINING WELLS AND ANCILLARY PIPING TO SEDIMENTATION TANK(S).

5. BEGIN PUMPING OF WELLS AND MONITOR DRAW-DOWN AND PUMPING RATES.

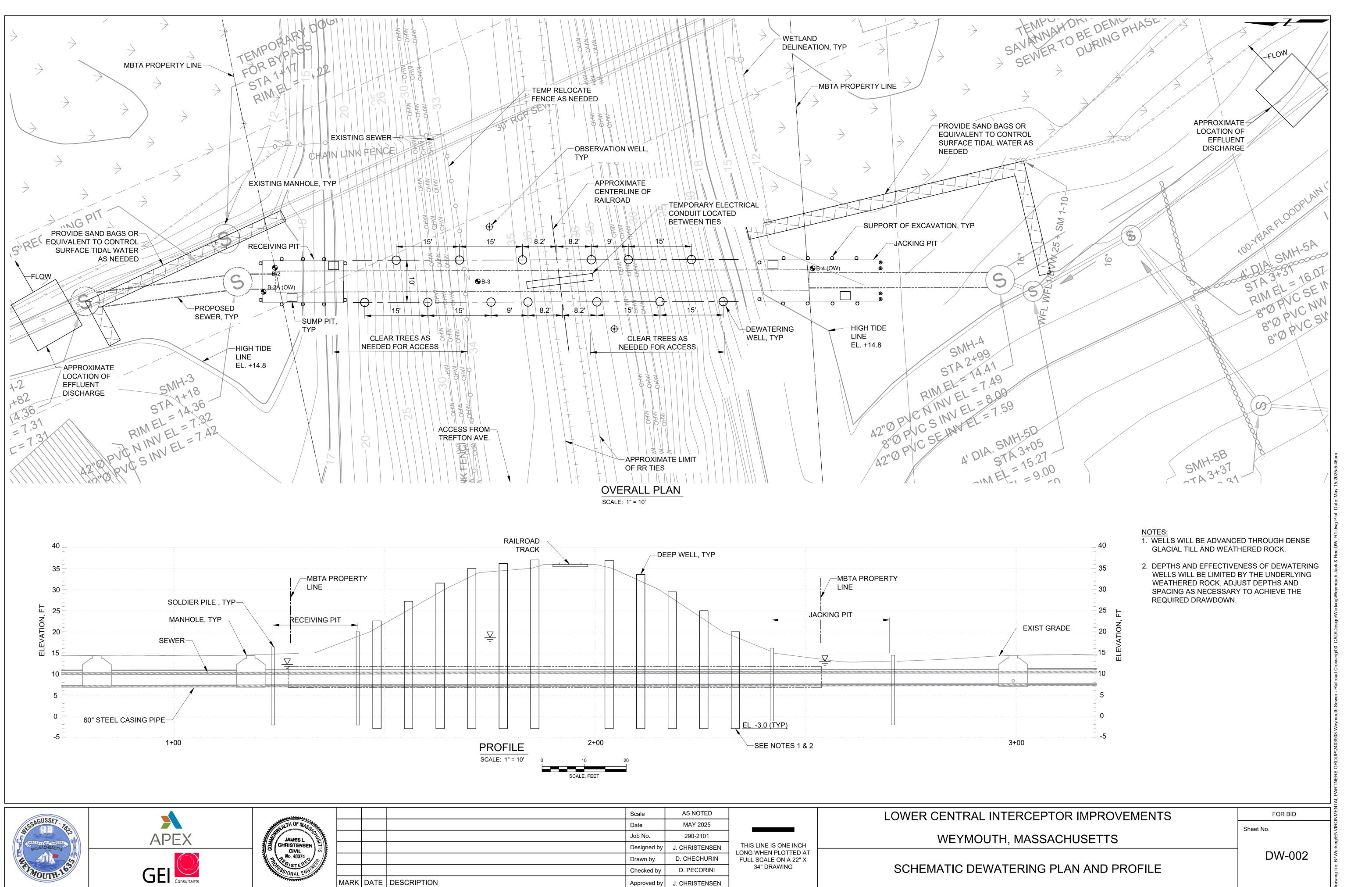
6. MONITOR AND TREAT DISCHARGED GROUNDWATER IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.

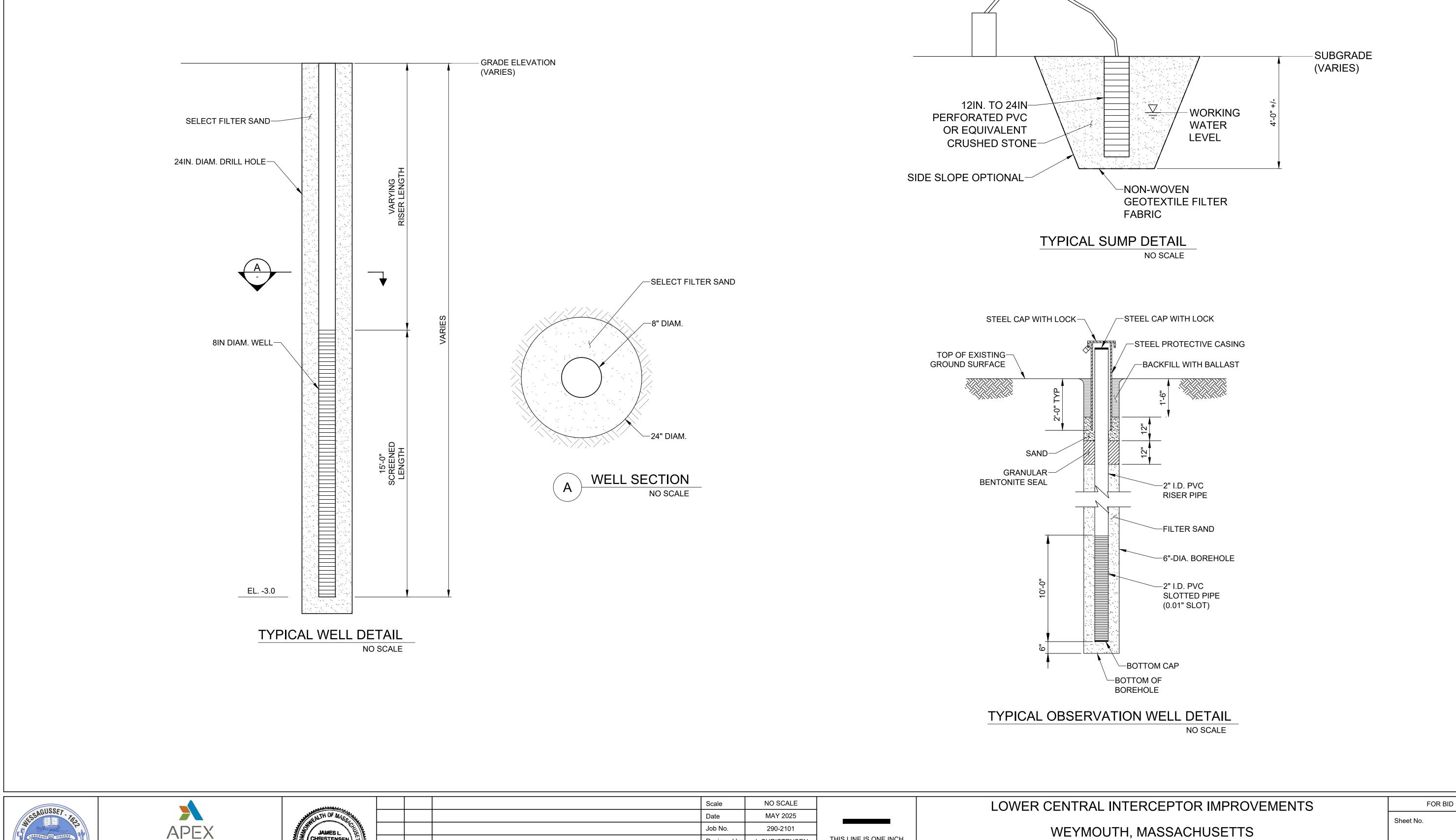
7. CONFIRM GROUNDWATER ELEVATIONS AT BREAK-IN / BREAK-OUT AND BEGIN JACKING OPERATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

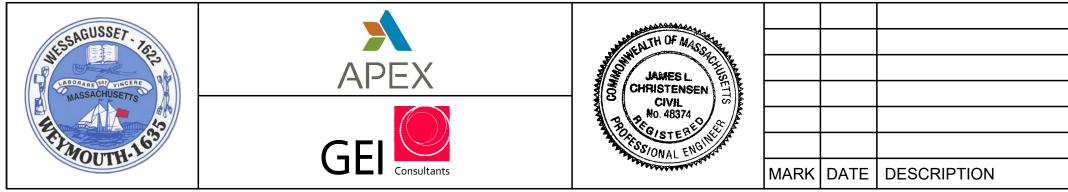
8. DECOMMISSION DEWATERING WELLS AND OBSERVATION WELLS BY TREMIE GROUTING WITH CEMENT-BENTONITE GROUT AFTER COMPLETION OF PROJECT.

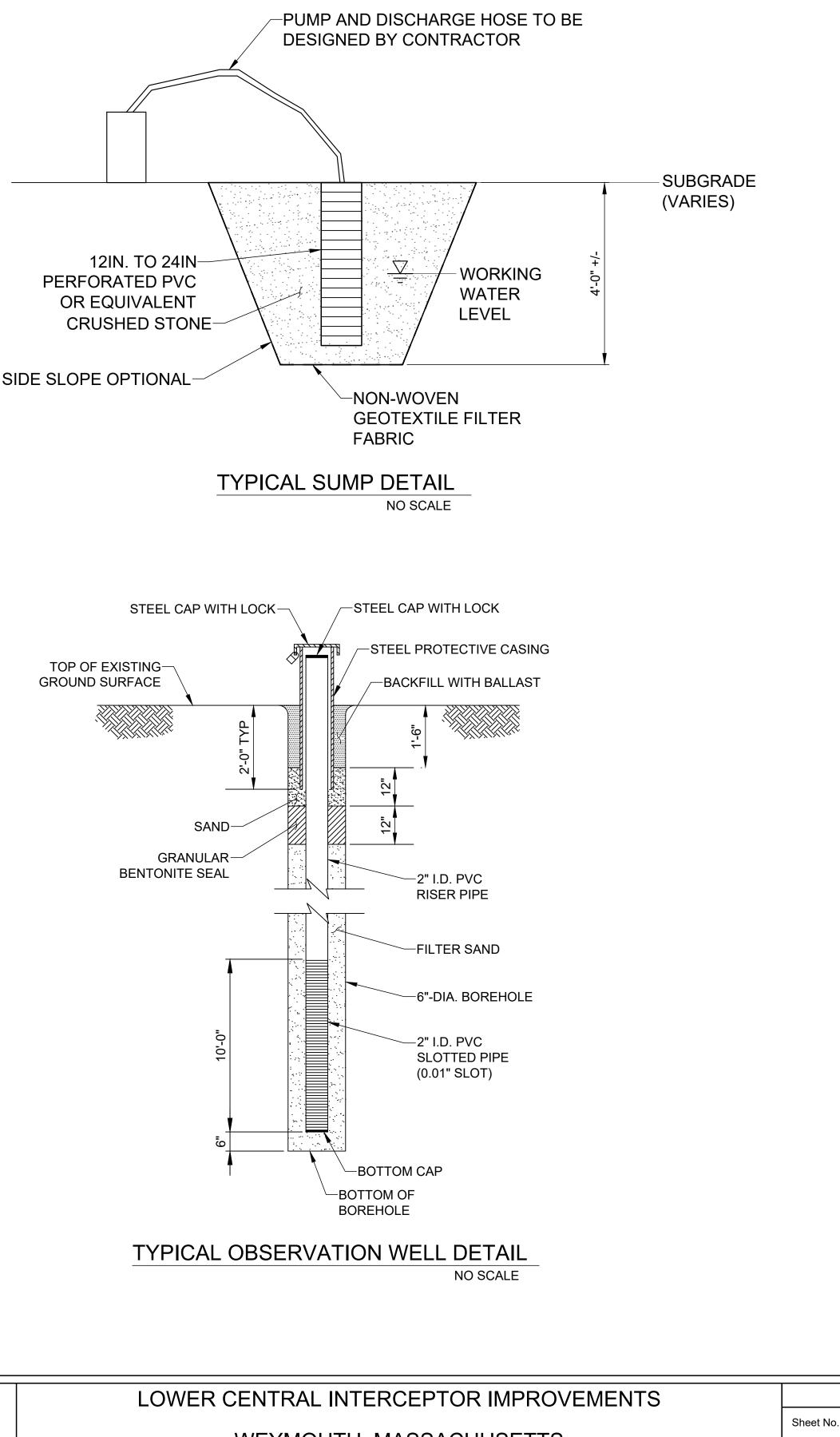
9. REMOVE ALL WELLS TO A DEPTH OF 3 FEET AND BACKFILL WITH BALLAST TO THE GROUND SURFACE.

THERWISE NOTED









LOWER CENTRAL INT	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	NO SCALE	Scale		
		MAY 2025	Date		
		290-2101	Job No.		
SCHEMATIC D		F	J. CHRISTENSEN	Designed by	
		D. CHECHURIN	Drawn by		
		D. PECORINI	Checked by		
		J. CHRISTENSEN	Approved by		

DEWATERING DETAILS

DW	/-0	03