

# LOWER CENTRAL INTERCEPTOR IMPROVEMENTS

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TOWN OF WEYMOUTH, MA

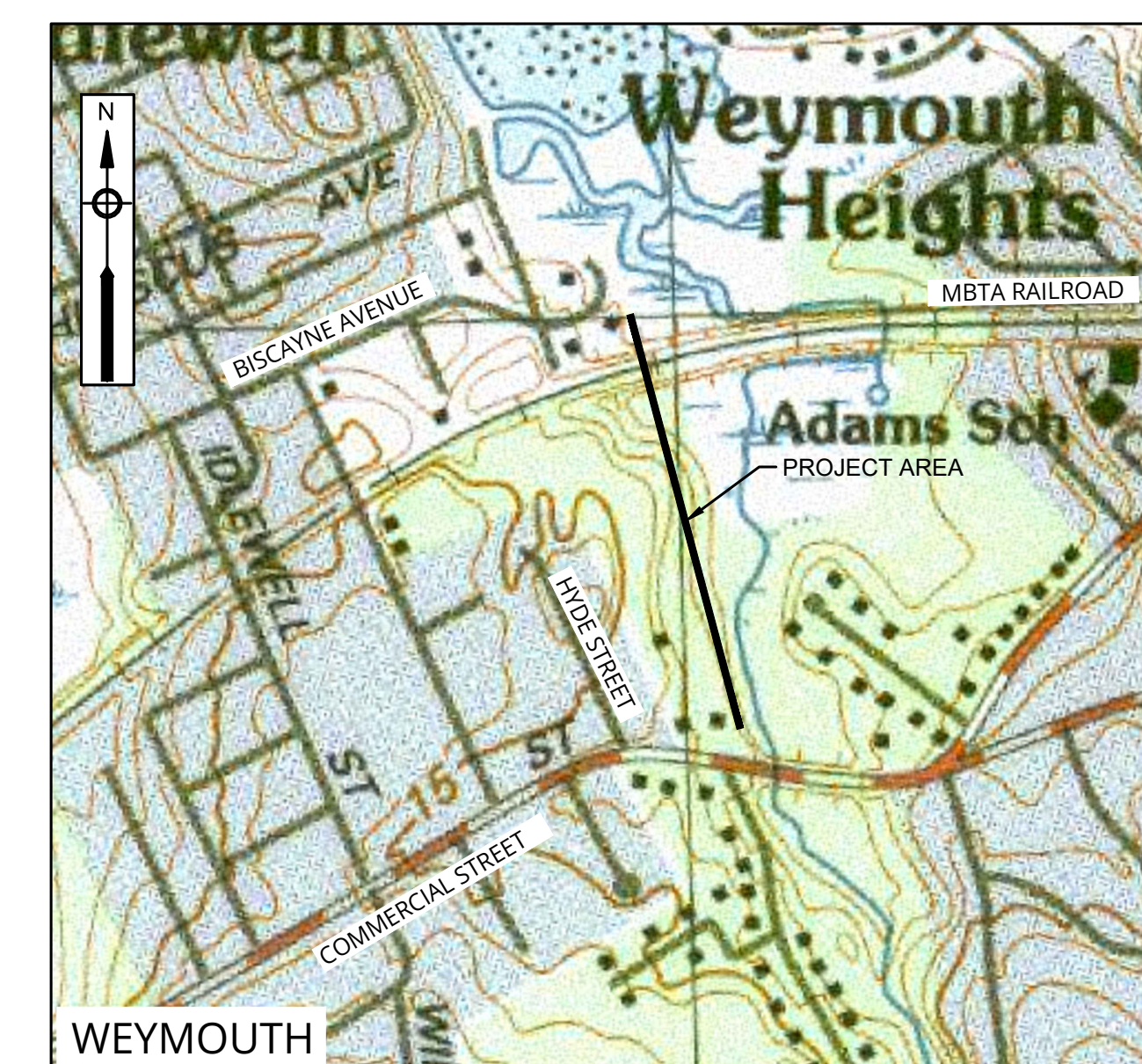
JANUARY 2024  
FOR PERMITTING

DEPARTMENT OF PUBLIC WORKS

KENAN CONNELL, DIRECTOR OF PUBLIC WORKS



**ENVIRONMENTAL  
PARTNERS**  
— An Apex Company —



VICINITY MAP  
1" = 500'



**GENERAL NOTES**

- BASE MAP INFORMATION IS BASED ON A GROUND SURVEY PERFORMED BY ZENITH LAND SURVEYORS. (FEBRUARY 2023). ELEVATION REFERENCES ARE BASED UPON WEYMOUTH TOWN DATUM.
- 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.
- 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.
- DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSION AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL RESTORE ALL PUBLIC AND PRIVATE PROPERTY TO ITS PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 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.
- 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.
- ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY 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.
- 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.
- 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.
- ANY TRAFFIC SIGNAL EQUIPMENT (LIGHTS, CONDUITS, LOOP DETECTORS) DISTURBED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
- 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.
- 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.
- THE CONTRACTOR SHALL HANDLE GROUNDWATER, WHERE ENCOUNTERED, IN AN APPROVED MANNER. DURING ANY DEWATERING, THE CONTRACTOR SHALL USE STONE AROUND THE SUCTION END TO MINIMIZE DISCHARGE OF TRENCH MATERIALS. THE DISCHARGED WATER SHALL PASS THROUGH FILTER FABRIC.
- NEW SEWER SERVICE CONNECTIONS SHALL BE INSTALLED SUCH THAT THEY ARE BENEATH THE WATER MAIN AND WATER SERVICE CONNECTIONS.
- THE WEYMOUTH WATER DEPARTMENT WILL OPERATE WATER DISTRIBUTION SYSTEM VALVES FOR THE PURPOSE OF OBTAINING A WATER MAIN SHUT DOWN, IF NECESSARY.
- THE CONTRACTOR SHALL SAW CUT ALL PAVEMENT TO ITS TOTAL DEPTH IN THE PROCESS OF INSTALLING NEW PIPES IN ALL PAVED AREAS INCLUDING STREETS, DRIVEWAYS, AND SIDEWALKS.
- WHEN THE HORIZONTAL SEPARATION BETWEEN THE NEW SEWER AND EXISTING WATER MAIN IS LESS THAN TEN (10) FEET AND THE VERTICAL SEPARATION IS LESS THAN EIGHTEEN (18) INCHES THE NEW SEWER SHALL BE CONSTRUCTED WITHIN A SLEEVE BEYOND WHEN THE SPACING IS LESS THAN TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL.

**SEWER CONSTRUCTION NOTES:**

- 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.
- FORM BRICK INVERTS IN MANHOLES WITH BRICK ON EDGE TO A DEPTH OF 0.8 INCHES 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 CENTER TO CENTER OF STRUCTURES. "IN" INDICATES UPSTREAM END OF MANHOLE.
- ALL EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES.
- CONTRACTOR TO COORDINATE LOCATING WATER AND SEWER SERVICES WITH WEYMOUTH WATER DEPARTMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR TO CONDUCT TEST PITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO DETERMINE EXISTING UTILITY ELEVATIONS FOR CROSSINGS.
- THE CONTRACTOR MUST GIVE 10 DAYS NOTICE PRIOR TO PERFORMING ANY WORK IN 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 REMAIN.

**STORMWATER POLLUTION PREVENTION PLAN - LONG-TERM AND CONSTRUCTION PERIOD**

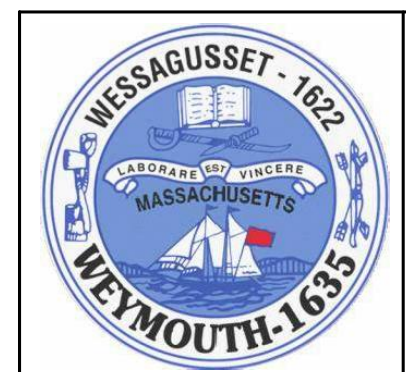
- THE TOWN OF WEYMOUTH DEPARTMENT OF PUBLIC WORKS SHALL BE RESPONSIBLE FOR THE LONG-TERM STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE OWNER'S GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF THE CONSTRUCTION PERIOD SWPPP. THE CONTRACTOR SHALL SUBMIT THE CONSTRUCTION PERIOD SWPPP TO THE ENGINEER AND CONSERVATION COMMISSION FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION.
- 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 WILL BE INCLUDED AS AN APPENDIX OF THE CONTRACT SPECIFICATIONS.
  - 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 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 SWEEPED 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.
  - 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.
- TYPICAL PRACTICES TO BE APPLIED TO THE SITE INCLUDE THE FOLLOWING:
  - THE FOLLOWING IS A DESCRIPTION OF MINIMUM CONSTRUCTION REQUIREMENTS AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES WITH REGARD TO DETERMINING THE ADEQUACY OF MEANS AND METHODS OF CONSTRUCTION. REFER TO DIVISION 2 OF THE SPECIFICATIONS FOR DETAILED REQUIREMENTS.
  - 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.

**STORMWATER MANAGEMENT OPERATION AND MAINTENANCE INSTRUCTIONS**

- SILT FENCE AND COIR LOGS:**
  - INSTALL PRIOR TO COMMENCEMENT OF THE EARTHWORK OPERATIONS.
  - INSPECT EROSION CONTROLS IMMEDIATELY AFTER EACH STORM AND REMOVE ACCUMULATED SEDIMENT AS REQUIRED.
  - REPLACE DAMAGED EROSION CONTROLS AS REQUIRED.
- SITE:**
  - REGULARLY PICK UP AND REMOVE LITTER FROM THE CONSTRUCTION AREA, ADJACENT PRIVATE PROPERTY AND WETLAND RESOURCE AREAS.
  - PAVED SURFACES WITHIN THE WORK AREA SHALL BE SWEEPED AS NEEDED AT THE REQUEST OF THE ENGINEER.
  - LAWN AREAS SHALL BE DRESSED WITH LOAM AND RESEEDED AS NEEDED TO MAINTAIN UNIFORM GRASS COVERAGE.
  - NO FERTILIZER, HERBICIDES, OR PESTICIDES SHALL BE APPLIED WITHIN 100 FEET OF SURFACE WATER.
- OWNER INFORMATION:**
  - 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).

**PROJECT SIGNAGE**

- 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 DISPLAYED AT THE SITE BEARING THE WORDS:  
  
MASS DEP  
FILE NUMBER XX-XXXX
- 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.



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| Scale       | AS NOTED     |             |
| Date        | JANUARY 2024 |             |
| Job No.     | 290-2101     |             |
| Designed by | SLC          |             |
| Drawn by    | SLC          |             |
| Checked by  | RJA          |             |
| Approved by | RJA          |             |
| MARK        | DATE         | DESCRIPTION |

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

**LOWER CENTRAL INTERCEPTOR IMPROVEMENTS**

**WEYMOUTH, MASSACHUSETTS**

**GENERAL NOTES**

FOR PERMITTING




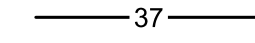
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**G-1**




































**LEGEND**

**PROPOSED**

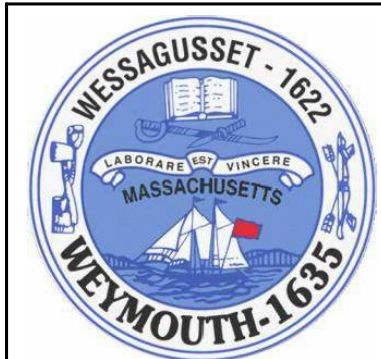
-  SEWER
-  FILTER SOCK
-  SEWER MANHOLE (SMH)
-  NEW GRADE

**EXISTING**

-  SEWER MANHOLE (SMH)
-  PROPERTY BOUNDRY
-  ASPHALT BERM
-  BIT CURB
-  EDGE OF PAVEMENT
-  PROPERTY LINE
-  STOCKADE FENCE
-  CHAIN LINK FENCE
-  WETLAND
-  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



**PLAN**  
SCALE: 1" = 120'



| MARK | DATE | DESCRIPTION |
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| Scale       | AS NOTED     |
| Date        | JANUARY 2024 |
| Job No.     | 290-2101     |
| Designed by | SLC          |
| Drawn by    | SLC          |
| Checked by  | RJA          |
| Approved by | RJA          |

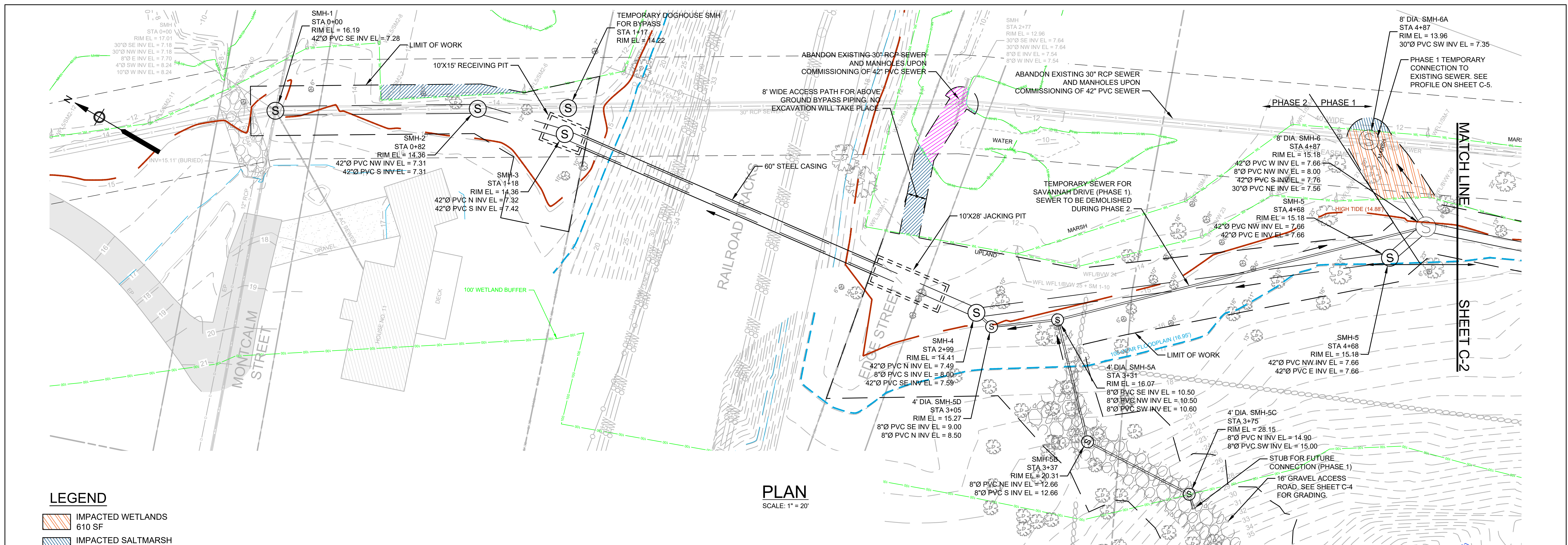
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LOWER CENTRAL INTERCEPTOR IMPROVEMENTS  
WEYMOUTH, MASSACHUSETTS  
LEGEND AND KEY PLAN

FOR PERMITTING  
Sheet No.  
**G-2**

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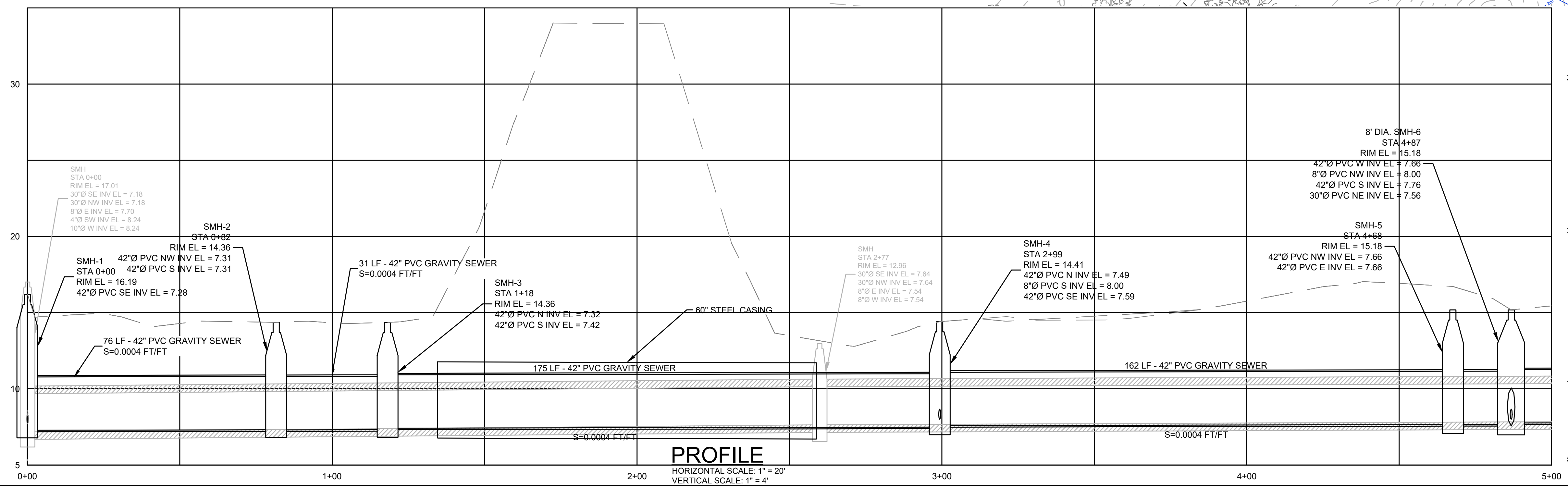




**PLAN**  
SCALE: 1" = 20'

**LEGEND**

- IMPACTED WETLANDS  
610 SF
- IMPACTED SALTMARSH  
660 SF
- LAND UNDER WATER  
325 SF
- RIVERBANK  
25 LF
- MEAN HIGH WATER  
EL. = 11.0'
- HIGH TIDE  
EL. = 14.88'
- 100-YEAR FLOOD LINE  
EL. = 16.95

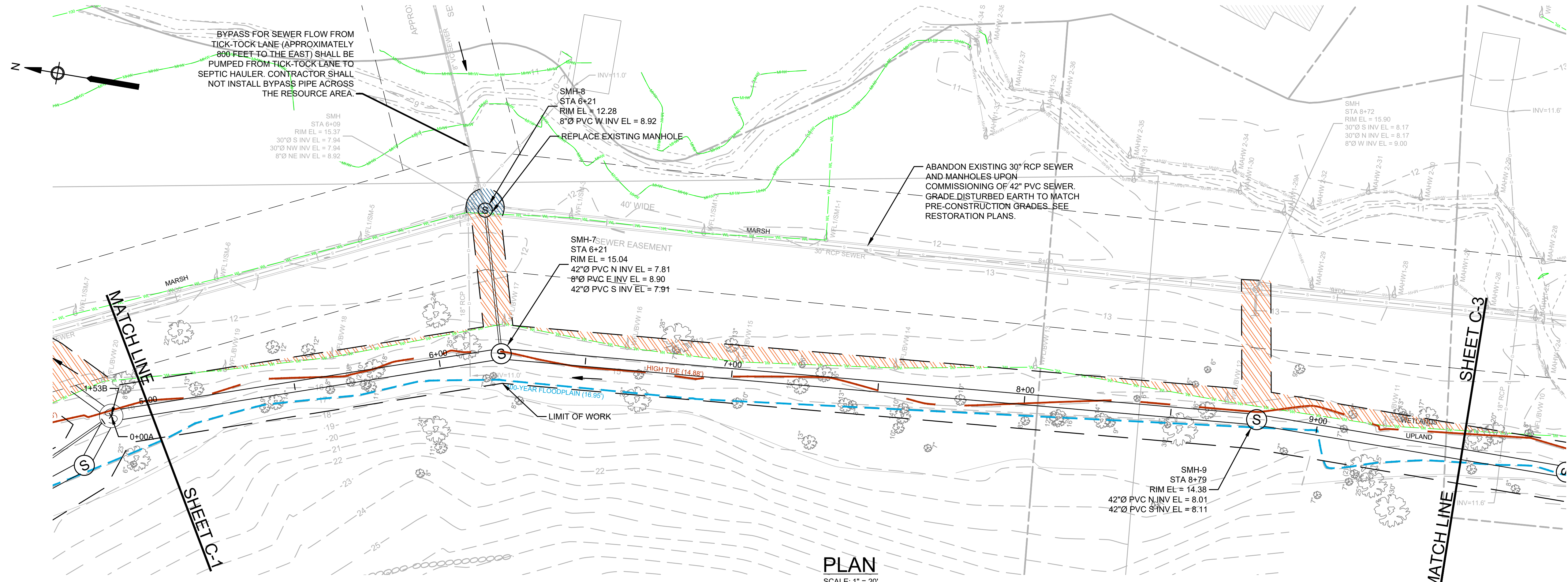


**PROFILE**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'

|      |  |             |             |              |  |   |                |
|------|--|-------------|-------------|--------------|--|---|----------------|
|      | <b>ENVIRONMENTAL PARTNERS</b><br>— An Apex Company — |             | Scale       | 1" = 20'     |  | <b>LOWER CENTRAL INTERCEPTOR IMPROVEMENTS</b><br>WEYMOUTH, MASSACHUSETTS<br>PROPOSED CONDITIONS I<br>STA. 0+00 TO STA. 5+00 | FOR PERMITTING |
|      |  |             | Date        | JANUARY 2024 |  |   | Sheet No.      |
|      |  |             | Job No.     | 290-2101     |  |   |                |
|      |  |             | Designed by | SLC          |  |   |                |
|      |  |             | Drawn by    | SLC          |  |   |                |
|      |  |             | Checked by  | RJA          |  |   |                |
|      |  |             | Approved by | RJA          |  |   |                |
| MARK | DATE   | DESCRIPTION |             |              |  |   |                |

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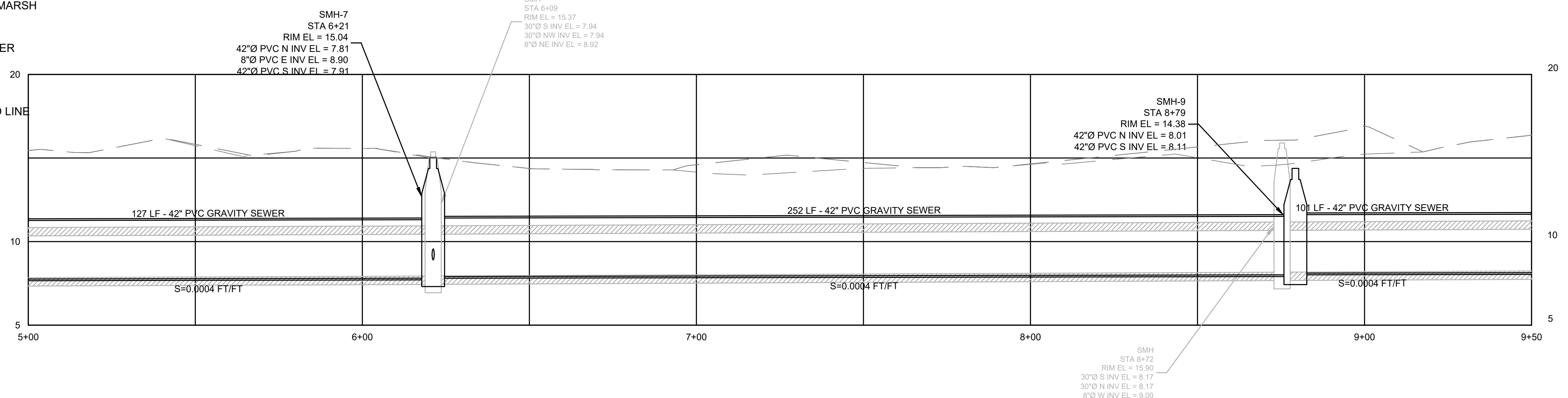




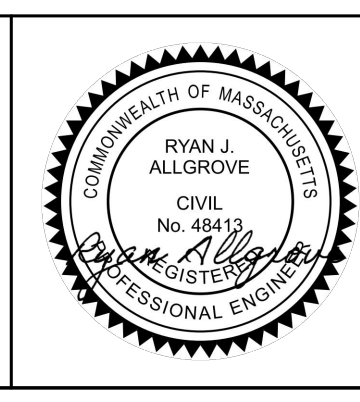
**PLAN**  
SCALE: 1" = 20'

**LEGEND**

- IMPACTED WETLANDS  
1,940 SF
- IMPACTED SALTMARSH  
155 SF
- MEAN HIGH WATER  
EL. = 11.0'
- HIGH TIDE  
EL. = 14.88'
- 100-YEAR FLOOD LINE  
EL. = 16.95



**PROFILE**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



| MARK | DATE | DESCRIPTION |
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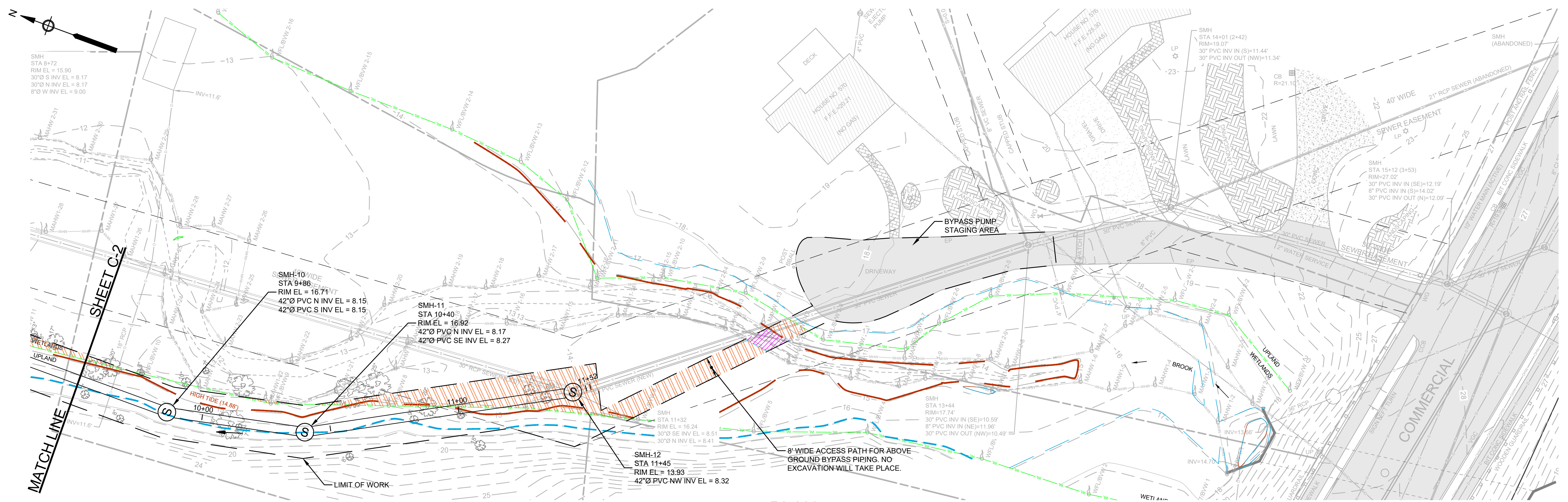
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| Job No.     | 290-2101     |
| Designed by | SLC          |
| Drawn by    | SLC          |
| Checked by  | RJA          |
| Approved by | RJA          |

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**LOWER CENTRAL INTERCEPTOR IMPROVEMENTS**  
**WEYMOUTH, MASSACHUSETTS**  
**PROPOSED CONDITIONS II**  
**STA. 5+00 TO STA. 9+50**

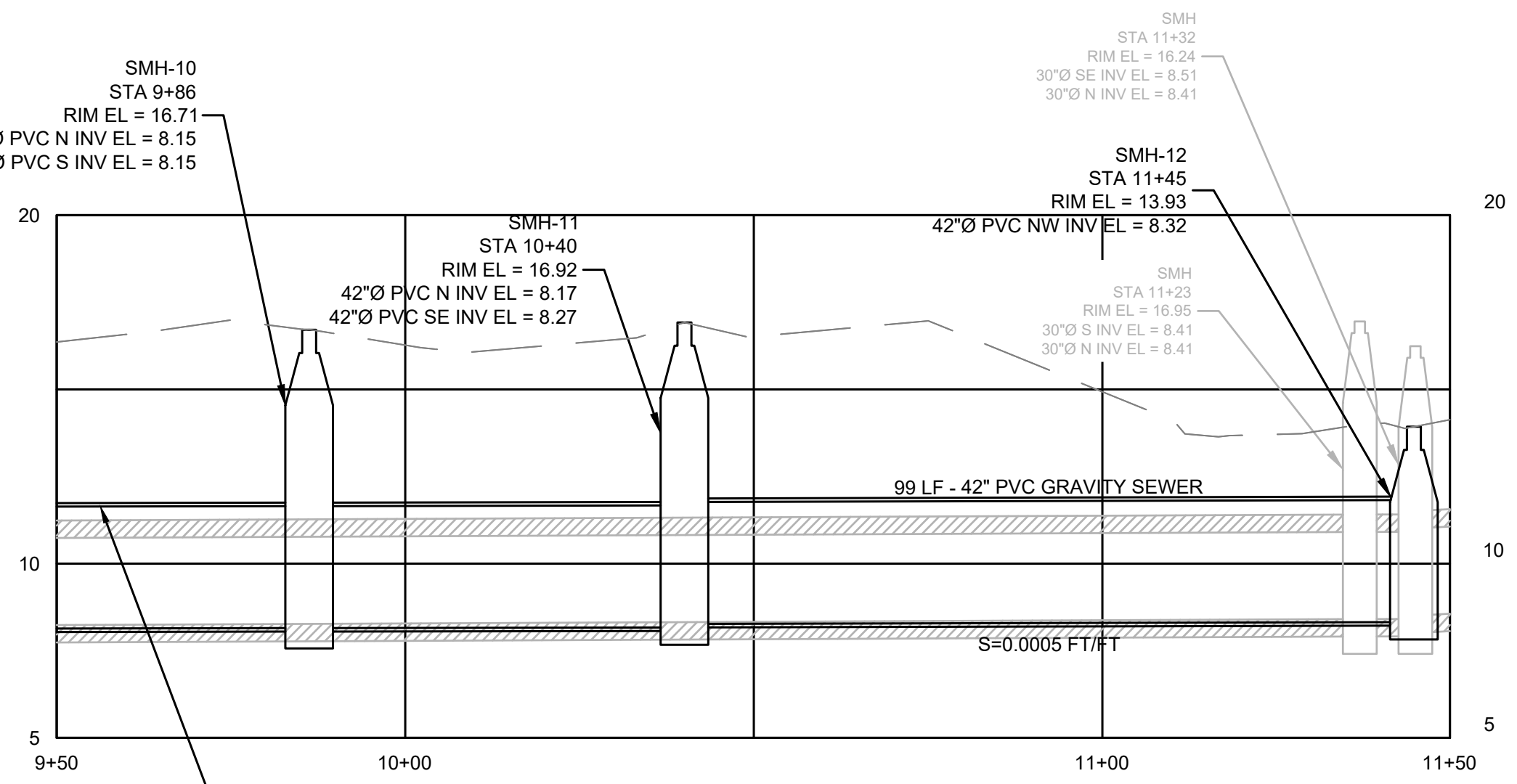
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**C-2**



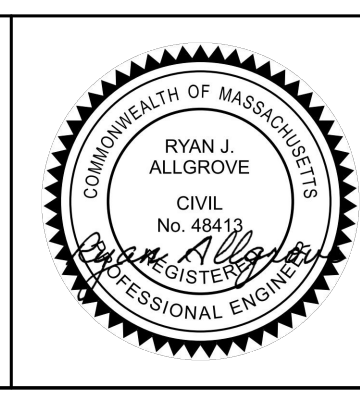


**PLAN**  
SCALE: 1" = 20'

- LEGEND**
- IMPACTED WETLANDS  
1,600 SF
  - LAND UNDER WATER  
150 SF
  - RIVERBANK  
20 LF
  - MEAN HIGH WATER  
EL. = 11.0'
  - HIGH TIDE  
EL. = 14.88'
  - 100-YEAR FLOOD LINE  
EL. = 16.95



**PROFILE**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



| MARK | DATE | DESCRIPTION |
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| Scale       | 1" = 20'     |
| Date        | JANUARY 2024 |
| Job No.     | 290-2101     |
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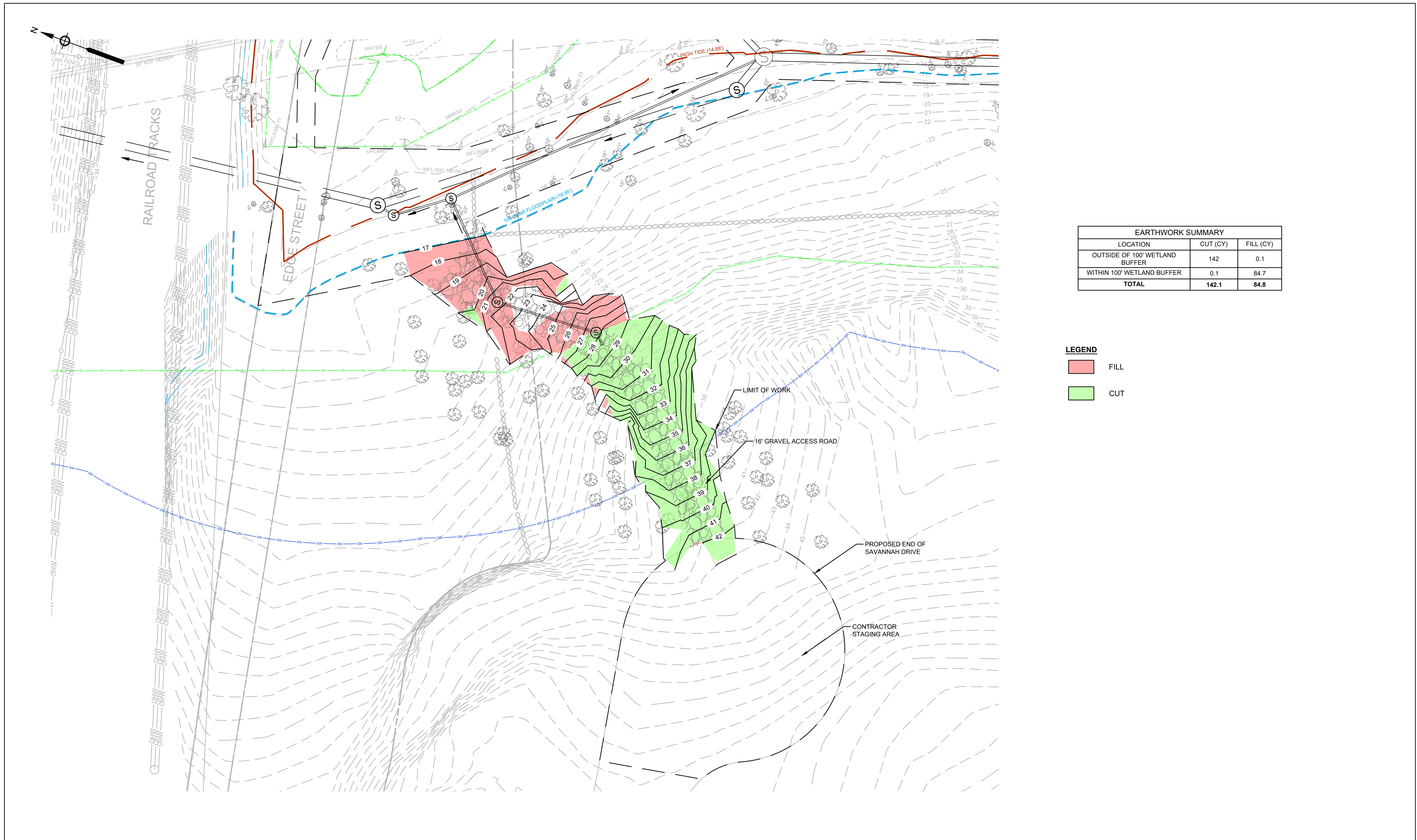
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LOWER CENTRAL INTERCEPTOR IMPROVEMENTS  
WEYMOUTH, MASSACHUSETTS  
PROPOSED CONDITIONS III  
STA. 9+50 TO STA. 11+50

FOR PERMITTING  
Sheet No.  
**C-3**

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| EARTHWORK SUMMARY              |              |             |
|--------------------------------|--------------|-------------|
| LOCATION                       | CUT (CY)     | FILL (CY)   |
| OUTSIDE OF 100' WETLAND BUFFER | 142          | 0.1         |
| WITHIN 100' WETLAND BUFFER     | 0.1          | 84.7        |
| <b>TOTAL</b>                   | <b>142.1</b> | <b>84.8</b> |

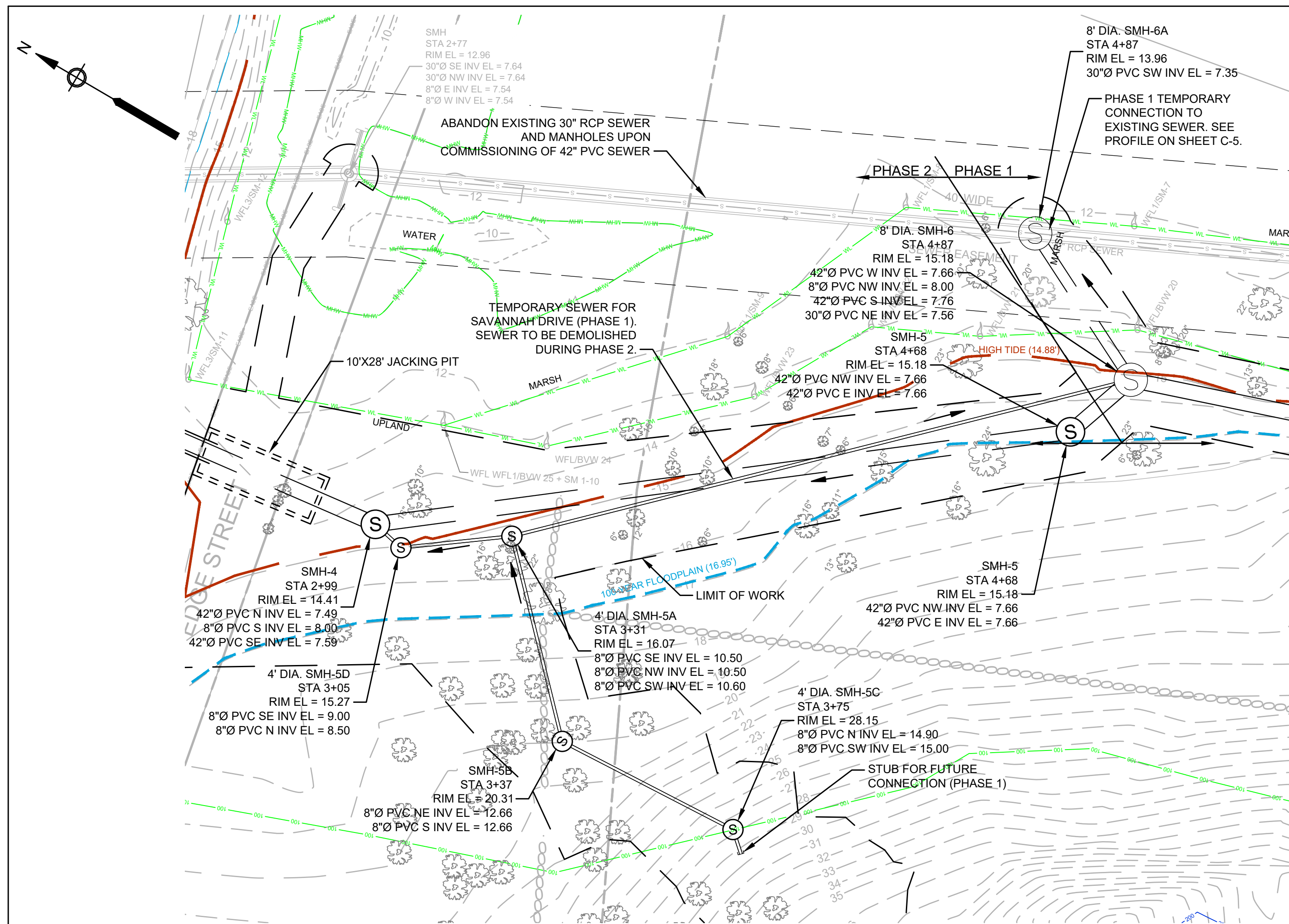
**LEGEND**

|   |      |
|---|------|
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| <span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border:1px solid black;"></span> | CUT  |

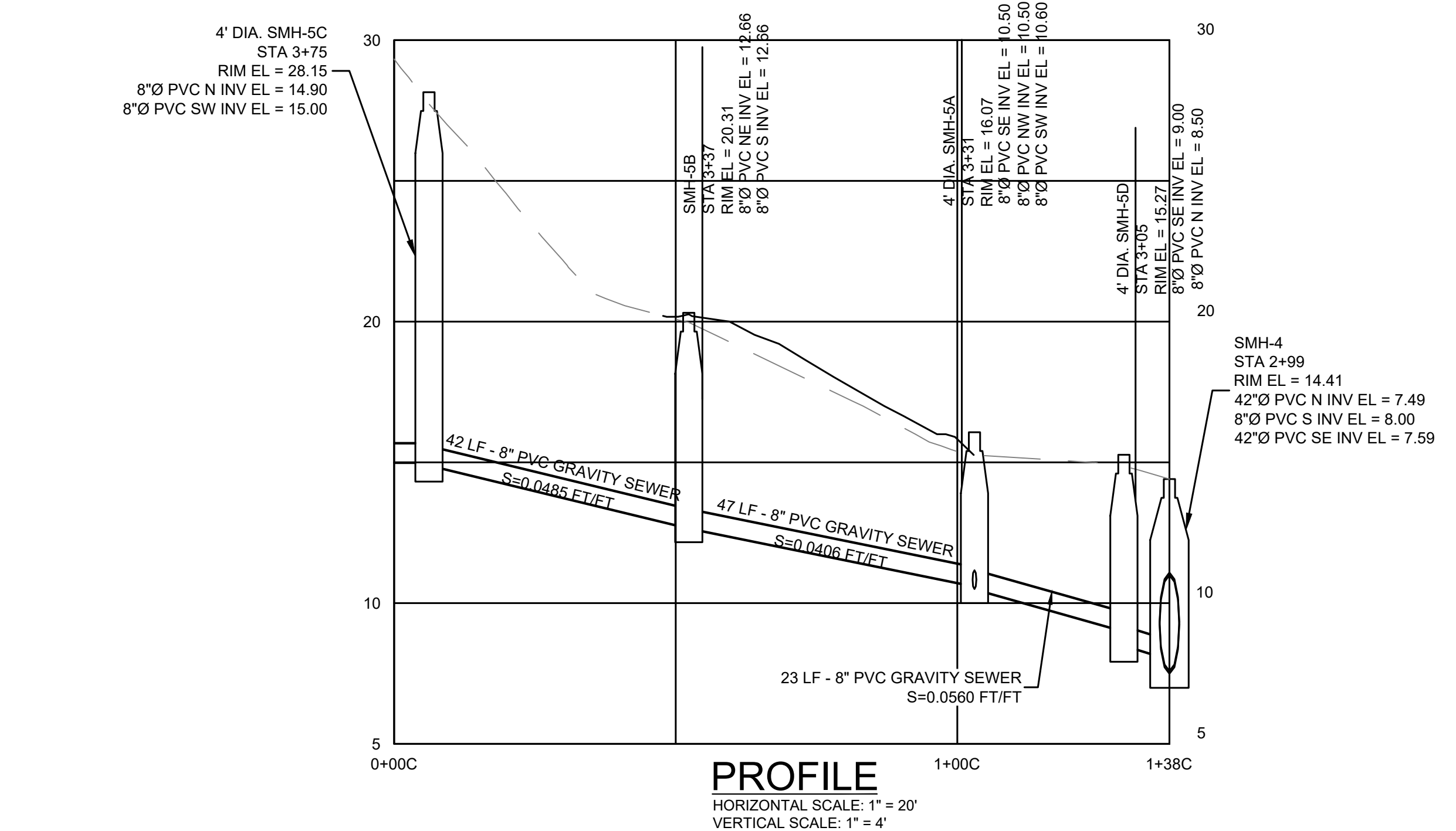
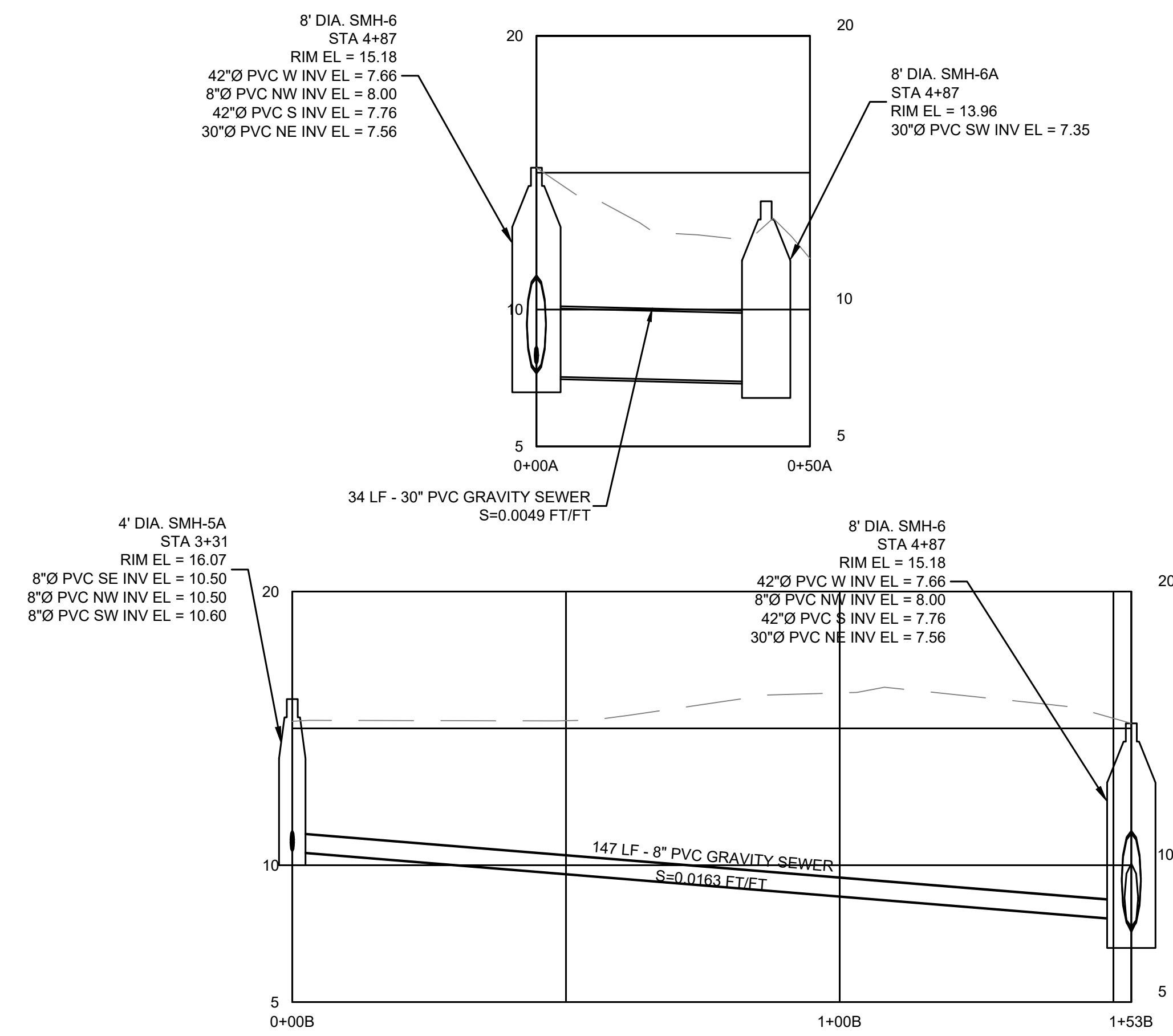
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|  | <b>ENVIRONMENTAL PARTNERS</b><br><br>— An Apex Company — |  |             |              |   | <b>LOWER CENTRAL INTERCEPTOR IMPROVEMENTS</b><br><br><b>WEYMOUTH, MASSACHUSETTS</b><br><br><b>PROPOSED CONDITIONS IV</b><br><b>ACCESS ROAD GRADING</b> | FOR PERMITTING |
|   |   |   |             |              |   |  | Sheet No.      |
|   |   |   | Scale       | 1" = 40'     | <br>THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING | <span style="font-size: 2em; font-weight: bold;">C-4</span>  |                |
|   |   |   | Date        | JANUARY 2024 |   |  |                |
|   |   |   | Job No.     | 290-2101     |   |  |                |
|   |   |   | Designed by | SLC          |   |  |                |
|   |   |   | Drawn by    | SLC          |   |  |                |
|   |   |   | Checked by  | RJA          |   |  |                |
|   |   |   | Approved by | RJA          |   |  |                |
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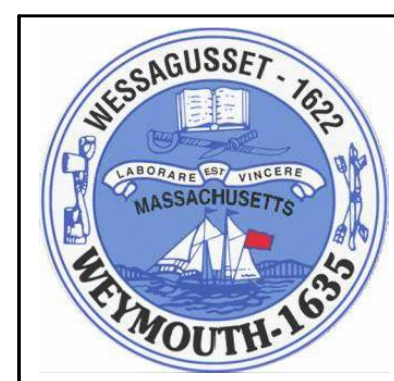




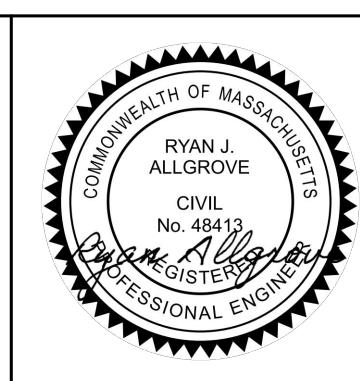
**PLAN**  
SCALE: 1" = 20'



**PROFILE**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



**ENVIRONMENTAL PARTNERS**  
— An Apex Company —



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| Scale       | 1" = 20'     |
| Date        | JANUARY 2024 |
| Job No.     | 290-2101     |
| Designed by | SLC          |
| Drawn by    | SLC          |
| Checked by  | RJA          |
| Approved by | RJA          |

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**LOWER CENTRAL INTERCEPTOR IMPROVEMENTS**  
**WEYMOUTH, MASSACHUSETTS**  
**PROPOSED CONDITIONS V**  
**ADDITIONAL SEWER PROFILES**

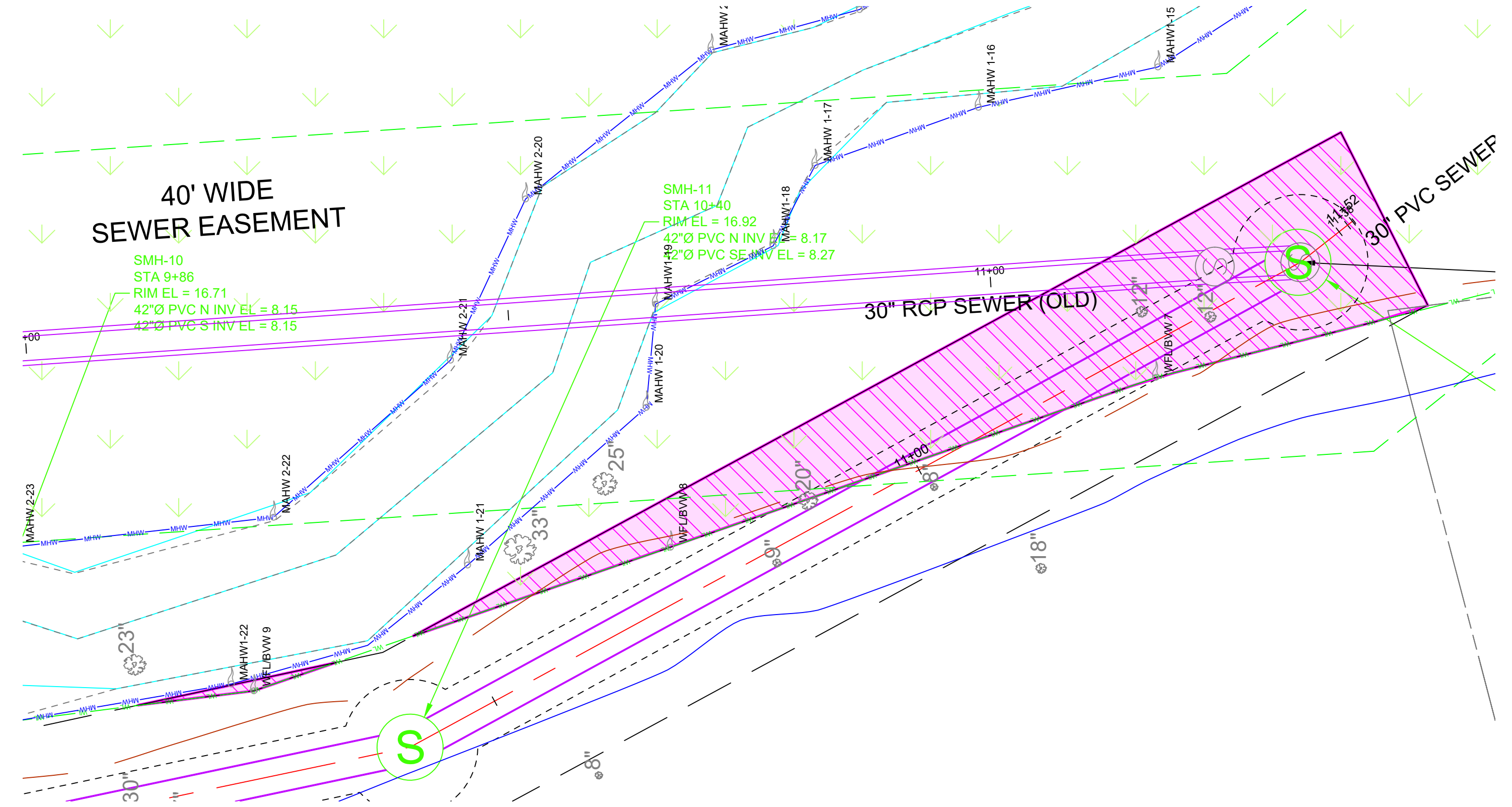
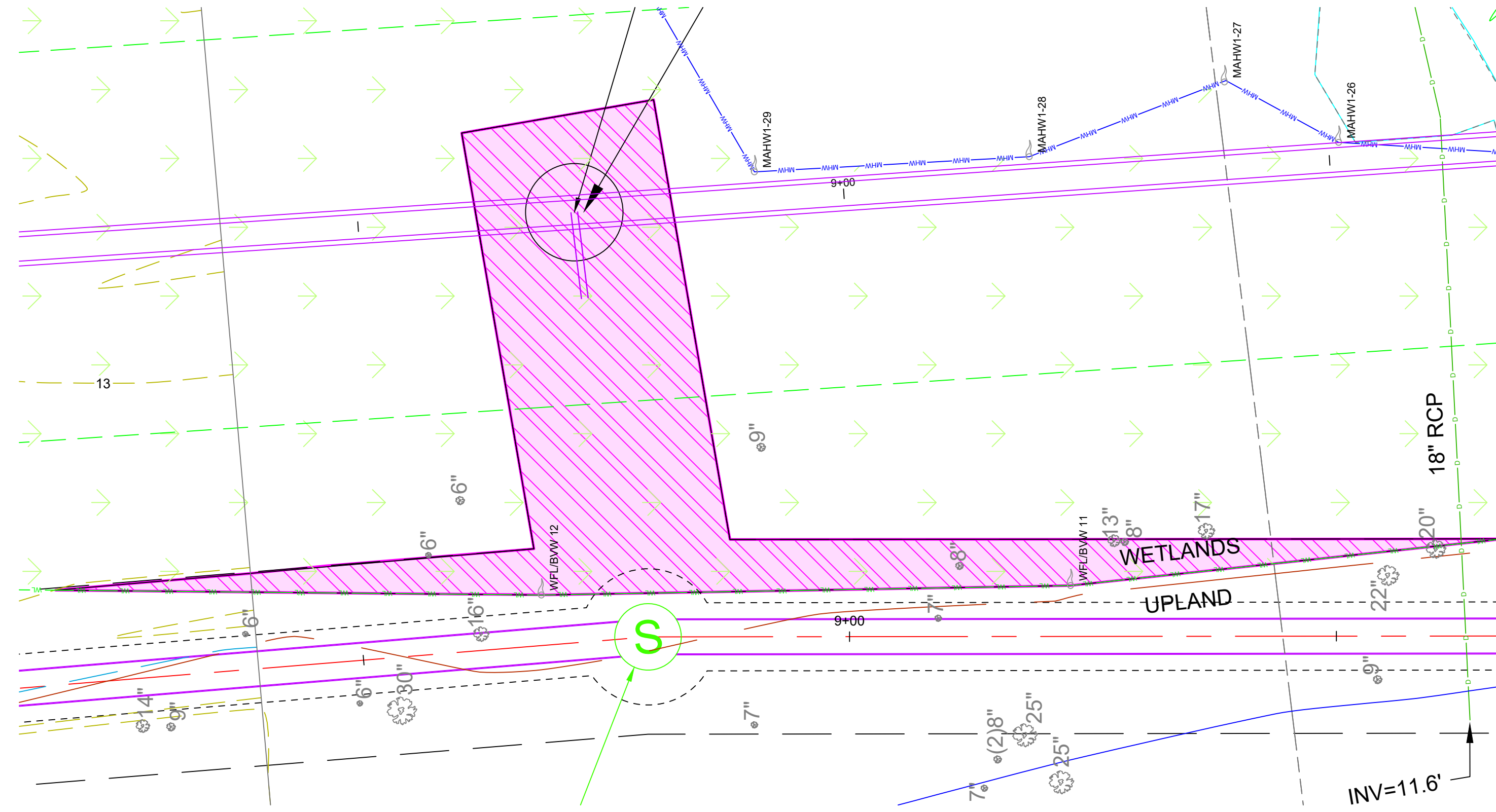
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**C-5**

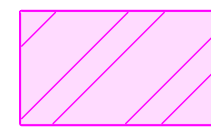


**RESTORATION AREA 4  
(WETLAND = ±880 S.F.)**

**RESTORATION AREA 5  
(WETLAND = ±1,600 S.F.)**



**PLAN**  
SCALE: 1" = 10'



**WETLAND RESTORATION AREA 4 GROUNDCOVER**

A CUSTOM NEW ENGLAND PARTIAL SHADE WETLAND MIX SHALL BE SPREAD THROUGHOUT WETLAND RESTORATION AREA 4 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)          | FOWL MANNAGRASS (GLYCERIA STRIATA)                |
| JUNCUS EFFUSUS (SOFT RUSH)                     | CINNA ARUNDINACEA (WOOD REEDGRASS)                |
| CAREX LURIDA (LURID SEDGE)                     | VERBENA HASTATA (BLUE VERVAIN)                    |
| CAREX LUPULINA (HOP SEDGE)                     | ASCLEPIAS INCARNATA (SWAMP MILKWEED)              |
| CAREX VULPINOIDEA (FOX SEDGE)                  | ASTER NOVAE-ANGLIAE (NEW ENGLAND ASTER)           |
| ZIZIA AUREA (GOLDEN ALEXANDERS)                | EUPATORIUM MACULATUM (JOE PYE WEED)               |
| CAREX SCOPARIA (BLUNT BROOM SEDGE)             | PATH RUSH (JUNCUS TENUIS)                         |
| SENSITIVE FERN (ONOCLEA SENSIBILIS)            | AWL SEDGE (CAREX STIPATA)                         |
| PENTHORUM SEDOIDES (DITCH STONECROP)           | FRINGED SEDGE (CAREX CRINITA)                     |
| SQUARE STEMMED MONKEY FLOWER (MIMULUS RINGENS) | STAR SEDGE (CAREX INTUMESCENS)                    |
| SEED BOX (LUDWIGIA ALTERNIFLORA)               | PENNSYLVANIA SMARTWEED (POLYGONUM PENNSYLVANICUM) |
| CALAMAGROSTIS CANADENSIS (CANADA BLUEJOINT)    | CARDINAL FLOWER (LOBELIA CARDINALIS)              |

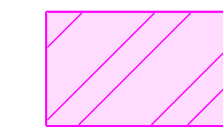
**WETLAND RESTORATION AREA 4 PLUGS**

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

- SEASIDE GOLDENROD (SOLIDAGO SEMPERVIRENS) - 450
- ROSE MALLOW (HIBISCUS MOSCHEutos) - 450

**WETLAND RESTORATION AREA 4 SOILS**

INVASIVE COMMON REED OCCURS ADJACENT TO RESTORATION AREA #4 AND LIKELY WITHIN PORTIONS OF THE EASTERLY END OF AREA 4. THEREFORE, ANY EXCAVATED EXISTING SOILS LIKELY CONTAINING THE ROOT ZONE AND SEED OF COMMON REED ARE NOT RECOMMENDED FOR REUSE.



**WETLAND RESTORATION AREA 5 GROUNDCOVER**

A CUSTOM NEW ENGLAND PARTIAL SHADE WETLAND MIX SHALL BE SPREAD THROUGHOUT WETLAND RESTORATION AREA 5 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)          | FOWL MANNAGRASS (GLYCERIA STRIATA)                |
| JUNCUS EFFUSUS (SOFT RUSH)                     | CINNA ARUNDINACEA (WOOD REEDGRASS)                |
| CAREX LURIDA (LURID SEDGE)                     | VERBENA HASTATA (BLUE VERVAIN)                    |
| CAREX LUPULINA (HOP SEDGE)                     | ASCLEPIAS INCARNATA (SWAMP MILKWEED)              |
| CAREX VULPINOIDEA (FOX SEDGE)                  | ASTER NOVAE-ANGLIAE (NEW ENGLAND ASTER)           |
| ZIZIA AUREA (GOLDEN ALEXANDERS)                | EUPATORIUM MACULATUM (JOE PYE WEED)               |
| CAREX SCOPARIA (BLUNT BROOM SEDGE)             | PATH RUSH (JUNCUS TENUIS)                         |
| SENSITIVE FERN (ONOCLEA SENSIBILIS)            | AWL SEDGE (CAREX STIPATA)                         |
| PENTHORUM SEDOIDES (DITCH STONECROP)           | FRINGED SEDGE (CAREX CRINITA)                     |
| SQUARE STEMMED MONKEY FLOWER (MIMULUS RINGENS) | STAR SEDGE (CAREX INTUMESCENS)                    |
| SEED BOX (LUDWIGIA ALTERNIFLORA)               | PENNSYLVANIA SMARTWEED (POLYGONUM PENNSYLVANICUM) |
| CALAMAGROSTIS CANADENSIS (CANADA BLUEJOINT)    | CARDINAL FLOWER (LOBELIA CARDINALIS)              |

**WETLAND RESTORATION AREA 5 FERNS**

THE FOLLOWING NATIVE FERNS (HALF GALLON POTS) SHALL BE PLANTED AS GROUNDCOVER AND INSTALLED THROUGHOUT WETLAND RESTORATION AREA #5.

- 30 OSMUNDA CINNAMOMEA (CINNAMON FERN)
- 20 OSMUNDA REGALIS (ROYAL FERN)
- 30 OSMUNDA SENSIBILIS (SENSITIVE FERN)

**WETLAND RESTORATION AREA 5 SOILS**

EXISTING WETLAND SOILS MAY BE REUSED WITHIN RESTORATION AREA #5 TO THE EXTENT PRACTICAL AS COMMON REED IS NOT PRESENT IN THE RESTORATION AREA. COMMON REED DOES OCCUR ON-SITE NEARBY BUT NOT WITHIN THE RESTORATION AREA. JAPANESE KNOTWEED IS ALSO PRESENT PROXIMATE TO THE SOUTHERN EDGE OF AREA 5. EXCAVATED SOIL LIKELY CONTAINING KNOTWEED PLANT PARTS SHALL NOT BE REUSED ON-SITE. SHOULD REUSABLE WETLAND SOILS REQUIRE STOCKPILING, THE WETLAND SOIL SHALL BE TEMPORARILY STORED ON-SITE, COVERED AND KEPT SEPARATED FROM OTHER SOILS.



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| Date        | JANUARY 2024 |
| Job No.     | 290-2101     |
| Designed by | LEC ENV.     |
| Drawn by    | LEC ENV.     |
| Checked by  | LEC ENV.     |
| Approved by | LEC ENV.     |

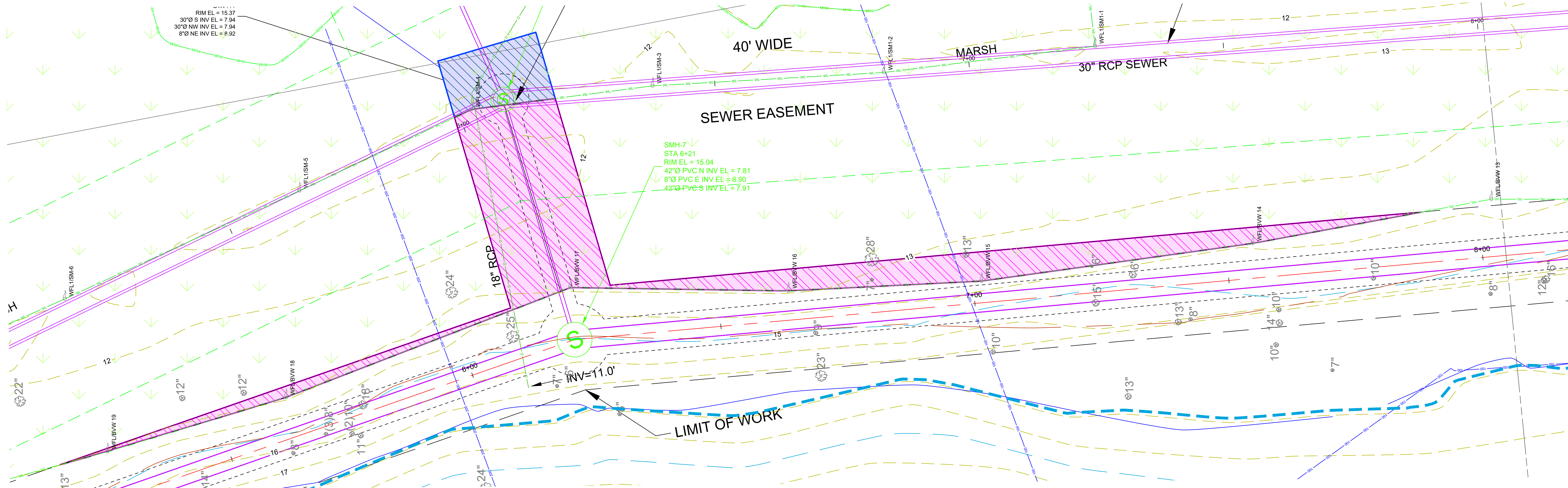
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**LOWER CENTRAL INTERCEPTOR IMPROVEMENTS**  
**WEYMOUTH, MASSACHUSETTS**  
**RESOURCE AREA RESTORATION PLAN I**

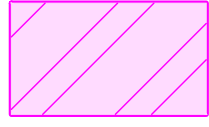
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**RESTORATION AREA 3**  
(SALT MARSH = ±155 S.F. & WETLAND = ±1,060 S.F.)



**PLAN**  
SCALE: 1" = 10'



**WETLAND RESTORATION AREA 3 GROUNDCOVER**

A CUSTOM NEW ENGLAND PARTIAL SHADE WETLAND MIX SHALL BE SPREAD THROUGHOUT WETLAND RESTORATION AREA 3 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)          | FOWL MANNAGRASS (GLYCERIA STRIATA)                |
| JUNCUS EFFUSUS (SOFT RUSH)                     | CINNA ARUNDINACEA (WOOD REEDGRASS)                |
| CAREX LURIDA (LURID SEDGE)                     | VERBENA HASTATA (BLUE VERVAIN)                    |
| CAREX LUPULINOEA (HOP SEDGE)                   | ASCLEPIAS INCARNATA (SWAMP MILKWEEED)             |
| CAREX VULPINOIDEA (FOX SEDGE)                  | ASTER NOVAE-ANGLIAE (NEW ENGLAND ASTER)           |
| ZIZIA AUREA (GOLDEN ALEXANDERS)                | EUPATORIUM MACULATUM (JOE PYE WEEED)              |
| CAREX SCOPARIA (BLUNT BROOM SEDGE)             | PATH RUSH (JUNCUS TENJIS)                         |
| SENSITIVE FERN (ONOCLEA SENSIBILIS)            | AWL SEDGE (CAREX STIPATA)                         |
| PENTHORUM SEDOIDES (DITCH STONECROP)           | FRINGED SEDGE (CAREX CRINITA)                     |
| SQUARE STEMMED MONKEY FLOWER (MIMULUS RINGENS) | STAR SEDGE (CAREX INTUMESCENS)                    |
| SEED BOX (LIDWIGIA ALTERNIFLORA)               | PENNSYLVANIA SMARTWEED (POLYGONUM PENNSYLVANICUM) |
| CALAMAGROSTIS CANADENSIS (CANADA BLUE/JOINT)   | CARDINAL FLOWER (LOBELIA CARDINALIS)              |

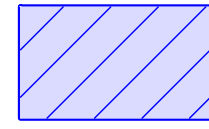
**WETLAND RESTORATION AREA 3 PLUGS**

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) - ±50

**WETLAND RESTORATION AREA 3 SOILS**

INVASIVE COMMON REED OCCURS WITHIN AND ADJACENT TO RESTORATION AREA #3. THEREFORE, EXCAVATED EXISTING SOILS CONTAINING THE ROOT ZONE AND SEED OF COMMON REED ARE NOT RECOMMENDED FOR REUSE.



**SALT MARSH RESTORATION AREA 3 GROUNDCOVER**

AREA TO BE PLANTED WITH 2" PLUGS OF THE FOLLOWING SALT MARSH SPECIES 8-14" O.C. THE FOLLOWING PLANTING NUMBERS ARE BASED ON REPLANTING THE ENTIRE RESTORATION AREA.

- SALT MEADOW CORDGRASS (SPARTINA PATENS) - ±50
- SMOOTH CORDGRASS (SPARTINA ALTERNIFLORA) - ±100
- ROSE MALLOW (HIBISCUS MOSCHEUTOS) - ±25
- SALT GRASS (DISTICHLIS SPICATA) - ±50

**SALT MARSH RESTORATION AREA 3 SOILS**

INVASIVE COMMON REED OCCURS WITHIN AND ADJACENT TO RESTORATION AREA #3. THEREFORE, EXCAVATED EXISTING SOILS CONTAINING THE ROOT ZONE AND SEED OF COMMON REED ARE NOT RECOMMENDED FOR REUSE. REPLACEMENT ORGANIC RICH TOP SOILS SHALL BE SIMILAR TO THE PROPOSED WETLAND SOILS AND INSTALLED TO A MINIMUM DEPTH OF 12 INCHES.



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| Date        | JANUARY 2024 |
| Job No.     | 290-2101     |
| Designed by | LEC ENV.     |
| Drawn by    | LEC ENV.     |
| Checked by  | LEC ENV.     |
| Approved by | LEC ENV.     |

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**LOWER CENTRAL INTERCEPTOR IMPROVEMENTS**  
**WEYMOUTH, MASSACHUSETTS**  
**RESOURCE AREA RESTORATION PLAN II**

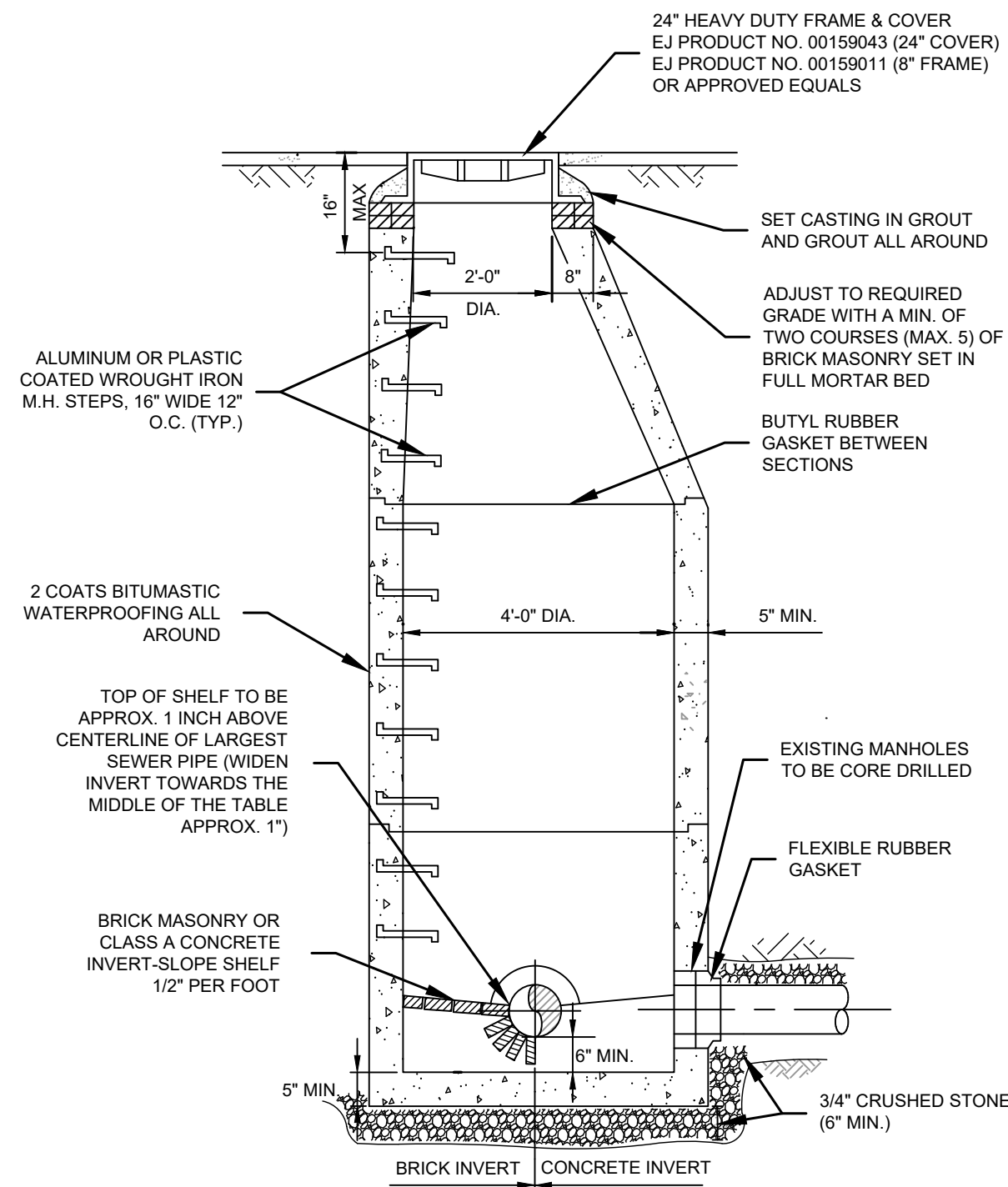
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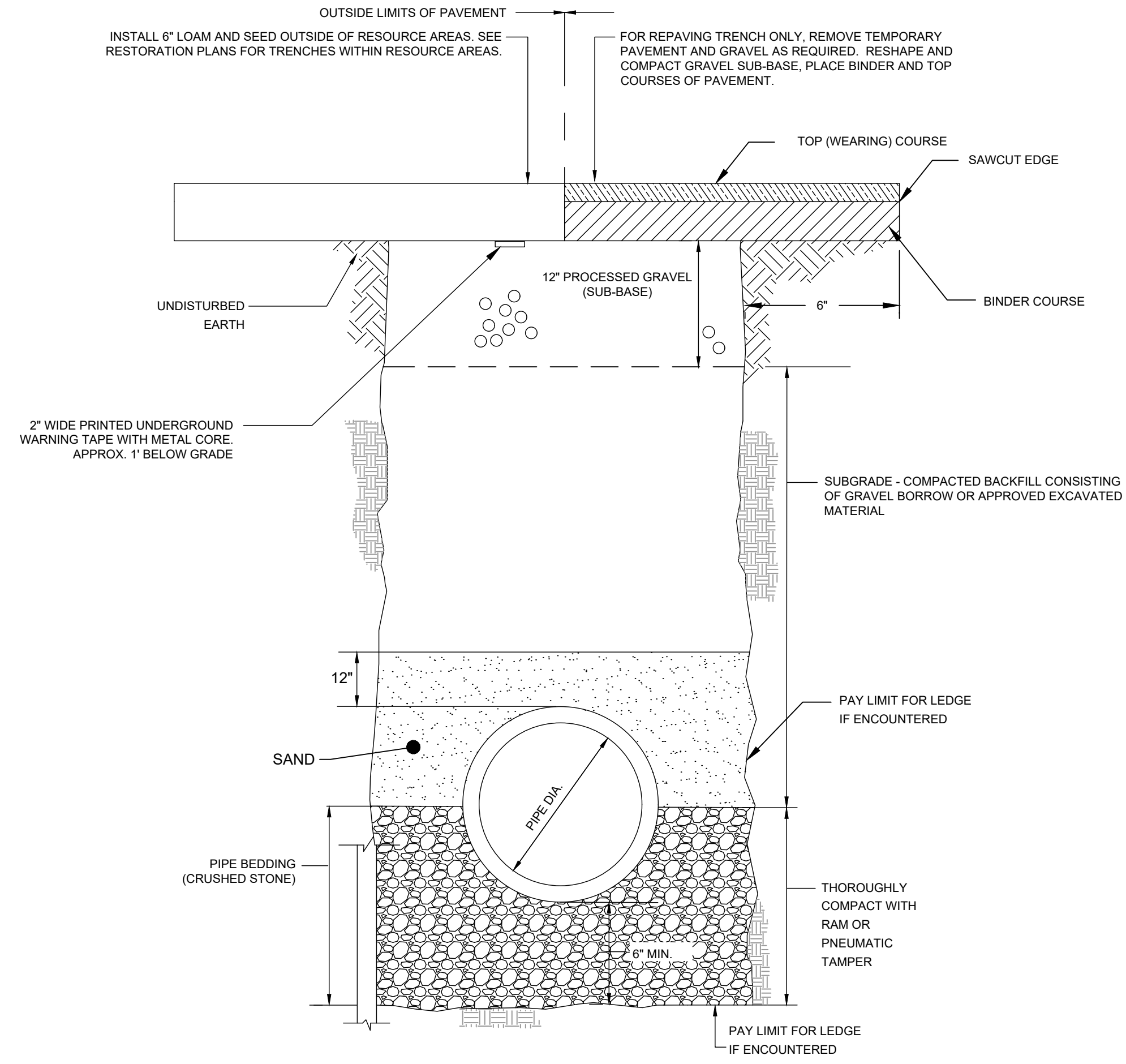






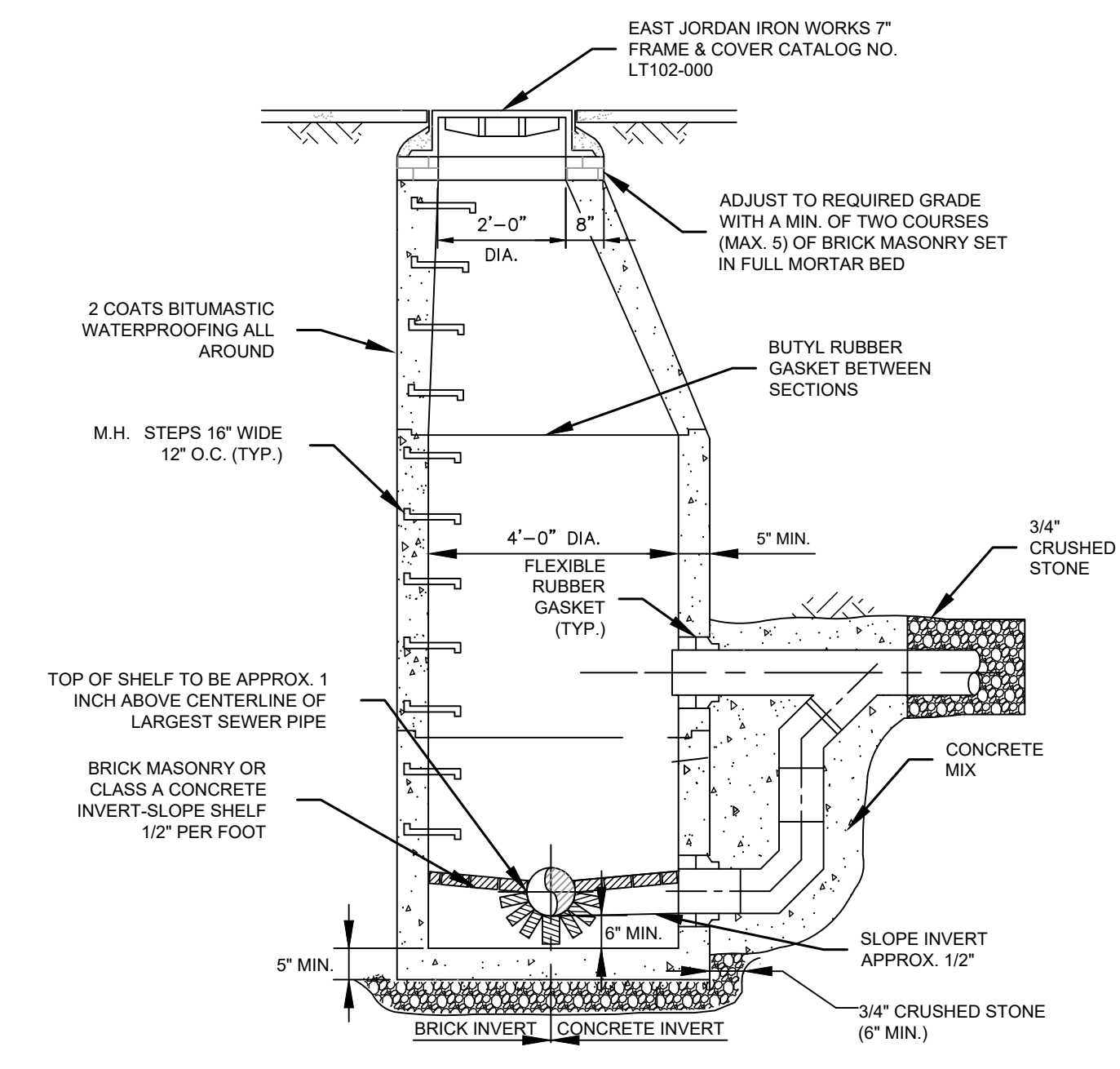
- NOTES:
1. ALL NEW SEWER MANHOLES ARE SUBJECT TO VACUUM TESTING.
  2. ALL BRICK MASONRY TO BE SOLID ASTM C-32, GRADE SM MOLDED (NON-FROGGED) AS MANUFACTURED BY STYLES & HART CO., OR EQUAL.
  3. ALL PIPES MUST MEET AT THE BRICK MASONRY INVERT. IF NOT, AN INSIDE DROP MUST BE CONSTRUCTED.
  4. SEAL ALL HOLES AND INTERIOR/EXTERIOR JOINTS WITH HYDRAULIC CEMENT.
  5. MANUFACTURED TO MEET OR EXCEED LATEST ASTM C-478 & AASHTO M 199 SPECS.
  6. CONCRETE=4000 PSI MIN., CEMENT PER ASTM C-478 (6.1).
  7. REINFORCED TO MEET OR EXCEED H-20 LOADING. REINFORCED STEEL TO MEET OR EXCEED LATEST ASTM A 185 SPECS.
  8. BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M-198.

**TYPICAL SEWER MANHOLE**  
SCALE: N.T.S.



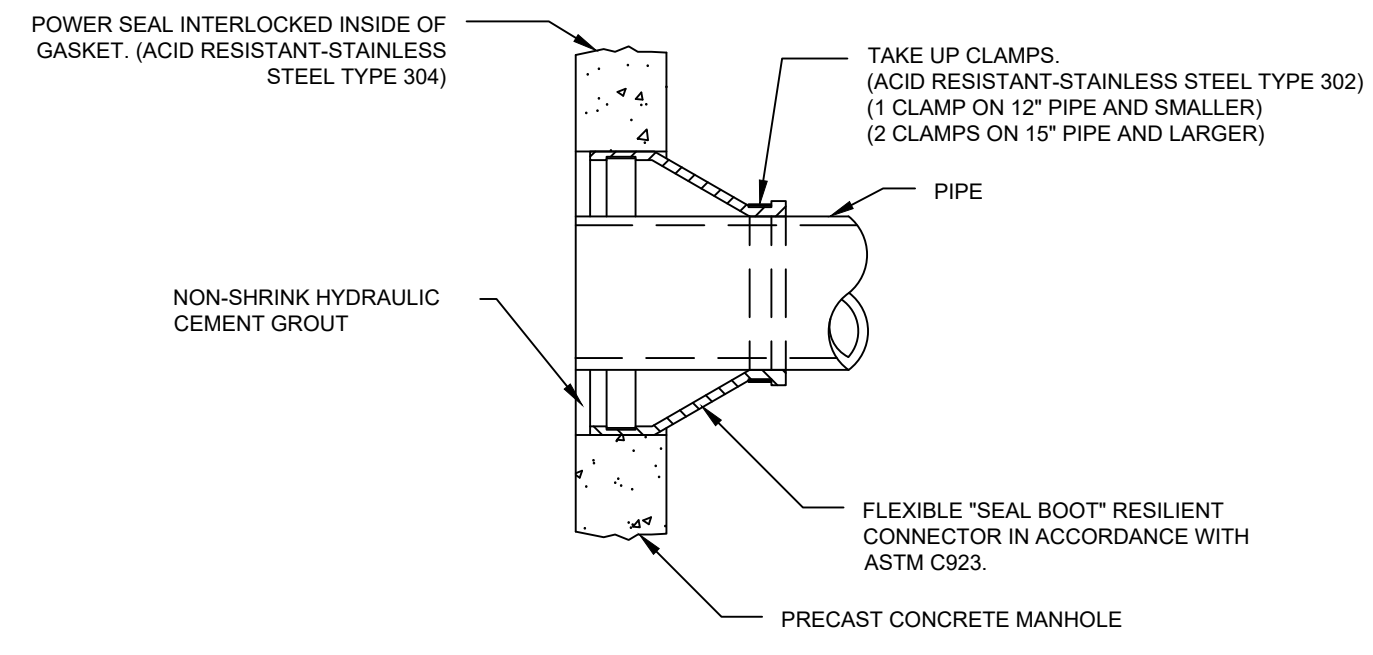
- NOTES:
1. ANY GRASS AREAS DISTURBED SHALL BE GRADED, LOAMED TO A DEPTH OF 4 INCHES AND SEEDED, WHERE NO GRASS OCCURS USE 6" PROCESSED GRAVEL

**TYPICAL SEWER TRENCH DETAIL**  
SCALE: N.T.S.



- NOTES:
1. ALL NEW SEWER STRUCTURES ARE SUBJECT TO VACUUM TESTING.
  2. ALL BRICK MASONRY TO BE SOLID ASTM C-32, GRADE SM MOLDED (NON-FROGGED) AS MANUFACTURED BY STYLES & HART BRICK CO., OR EQUAL.
  3. ALL PIPES MUST MEET AT THE BRICK MASONRY INVERT. IF NOT, AN INSIDE DROP MUST BE CONSTRUCTED.

**OUTSIDE DROP SEWER MANHOLE**  
SCALE: N.T.S.



**TYPICAL MANHOLE SEAL**  
SCALE: N.T.S.



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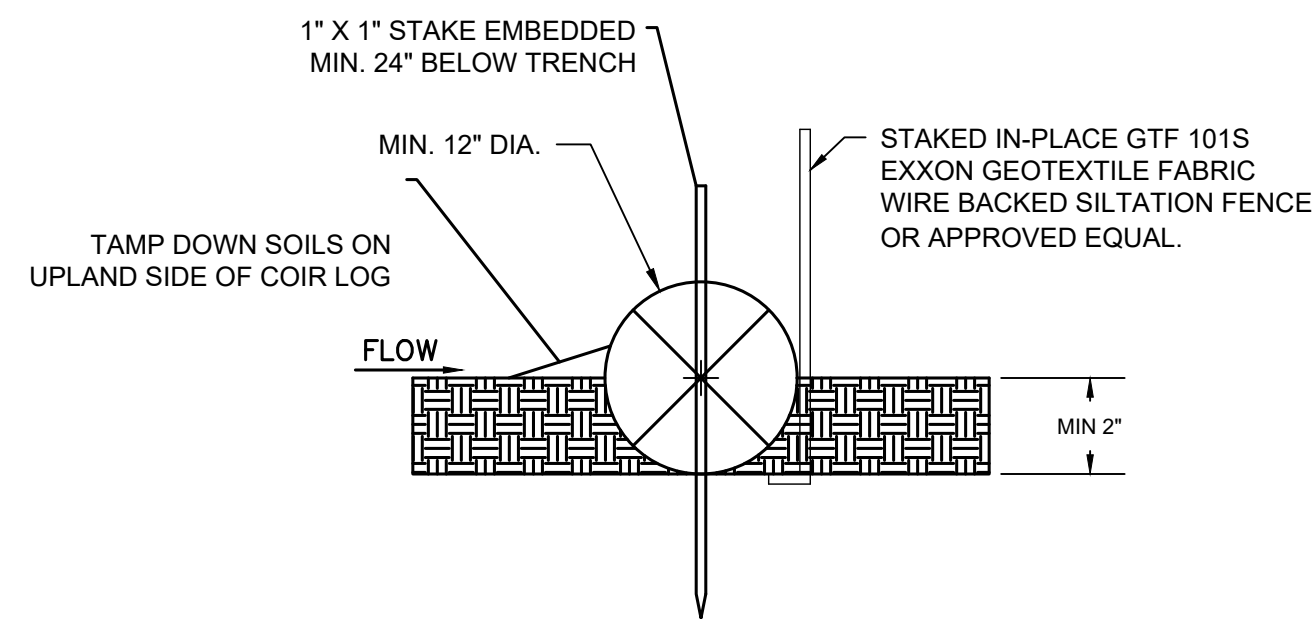
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| Date        | JANUARY 2024 |
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| Drawn by    | SLC          |
| Checked by  | RJA          |
| Approved by | RJA          |

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LOWER CENTRAL INTERCEPTOR IMPROVEMENTS  
WEYMOUTH, MASSACHUSETTS  
CIVIL DETAILS I

FOR PERMITTING  
Sheet No.  
**CD-1**



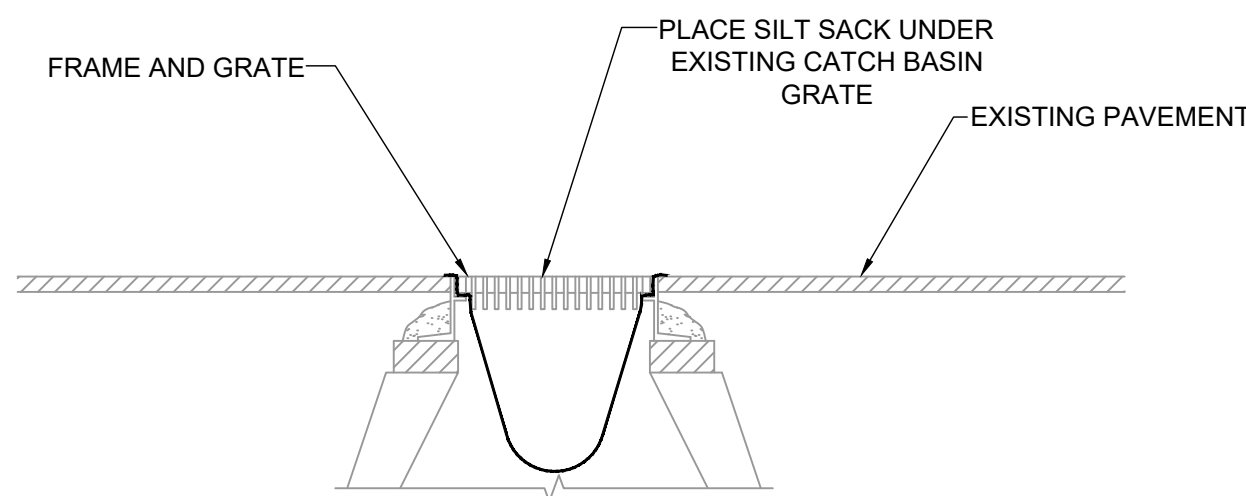


**NOTES:**

1. COIR LOGS SHALL BE FILLED WITH DECORTICATED COCONUT FIBERS AND CONTAINED WITHIN DURABLE POLYPROPYLENE NETTING.
2. COIR LOGS SHALL BE INSTALLED IN LOCATIONS AS SHOWN ON SHEET C-2.
3. SPACE STAKES 4'0" ON CENTER.
4. COIR LOGS BE MAINTAINED THROUGHOUT CONSTRUCTION. TRENCHES SHALL BE DRESSED WITH LOAM AND SEEDED AFTER REMOVAL OF COIR LOGS.

**SILT FENCE / COIR LOG DETAIL**

SCALE: N.T.S.

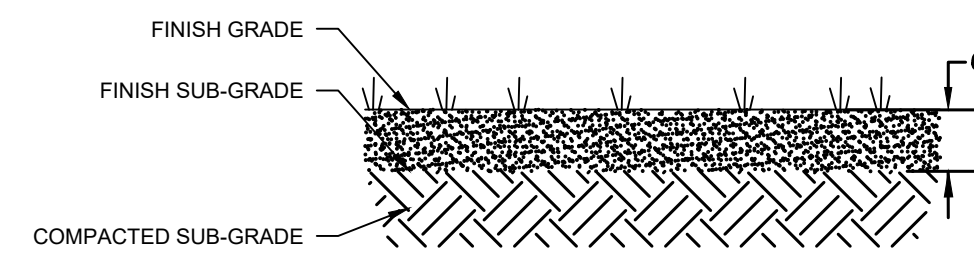


**NOTES:**

1. SILT SACKS SHALL BE INSPECTED WEEKLY AND BEFORE AND AFTER A STORM. ACCUMULATED SILT SHALL BE REMOVED TO ALLOW CATCH BASIN TO FUNCTION PROPERLY. ANY EXISTING OR ANTICIPATED CATCH BASIN PERFORMANCE ISSUES THAT MIGHT LEAD TO FLOODING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND/OR OWNER IMMEDIATELY BEFORE AND AFTER A STORM.
2. SILT SACK HIGH FLOW MODEL AS MANUFACTURED BY ACF ENVIRONMENTAL (800-448-3636) OR APPROVED EQUAL.

**SILT SACKS SEDIMENTATION CONTROL AT CATCH BASINS**

SCALE: N.T.S.

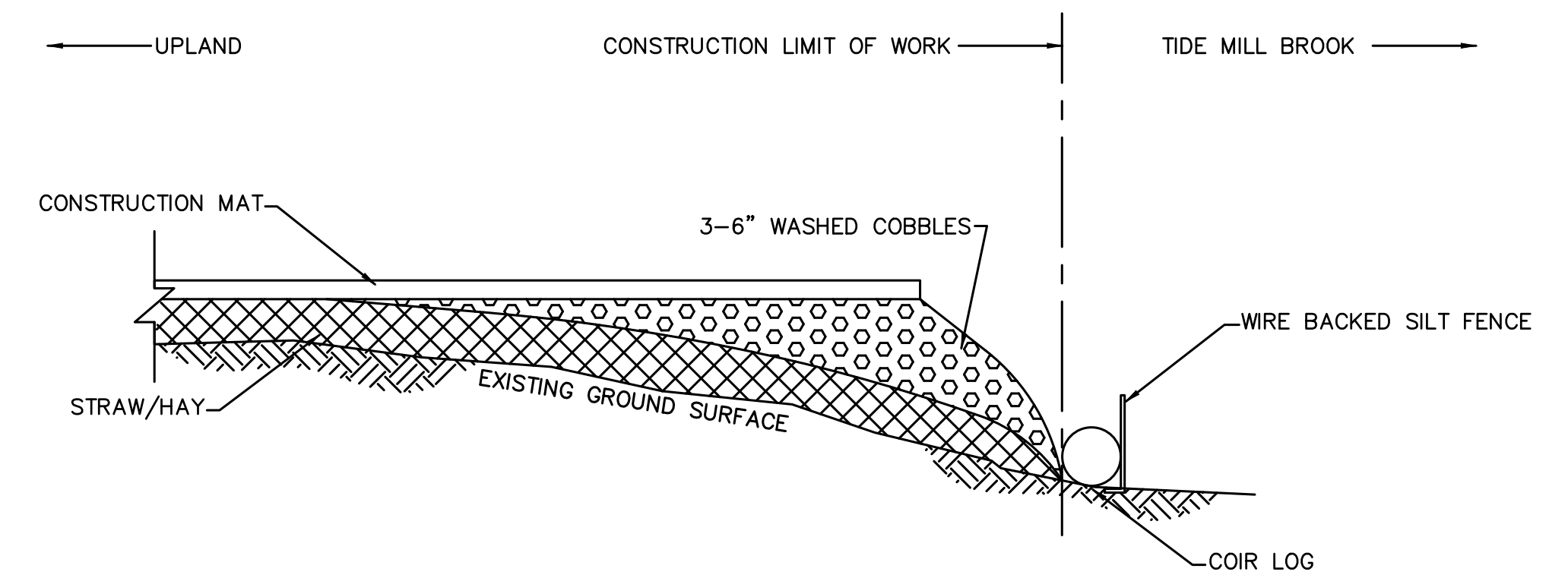


**NOTES:**

1. SEED MIX SHALL BE NEW ENGLAND CONSERVATION SEED MIX, FREE OF FERTILIZERS.
2. 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.

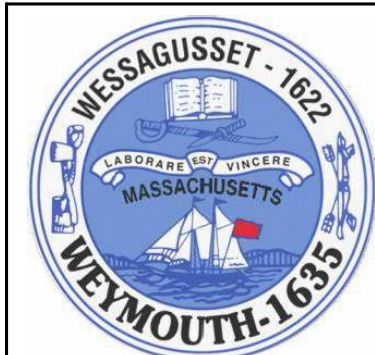
**LOAM AND SEED (DISTURBED AREAS)**

SCALE: N.T.S.



**CONSTRUCTION MAT DETAIL**

SCALE: N.T.S.



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| Scale       | AS NOTED     |             |
| Date        | JANUARY 2024 |             |
| Job No.     | 290-2101     |             |
| Designed by | SLC          |             |
| Drawn by    | SLC          |             |
| Checked by  | RJA          |             |
| Approved by | RJA          |             |
| MARK        | DATE         | DESCRIPTION |

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LOWER CENTRAL INTERCEPTOR IMPROVEMENTS  
WEYMOUTH, MASSACHUSETTS  
CIVIL DETAILS II

FOR PERMITTING  
Sheet No.  
**CD-2**