



State of Rhode Island and Providence Plantations
Coastal Resources Management Council
 Oliver H. Stedman Government Center
 4808 Tower Hill Road, Suite 3
 Wakefield, RI 02879-1900

(401) 783-3370
 Fax (401) 783-2069

APPLICATION FOR STATE ASSENT

To perform work regulated by the provisions of Chapter 279 of the Public Laws of 1971 Amended.

Project Location <u>0 Booth Ave, East Providence</u> <small style="display: flex; justify-content: space-between; width: 100%;"> No. Street City/Town </small>	File No. (CRMC USE ONLY) <div style="font-size: 1.2em; color: blue; text-align: center;">2023-06-125</div>
Owner's Name <u>City of East Providence - Parks</u>	Plat: 13 Lot(s): 9
Mailing Address <u>145 Taunton Ave., East Providence RI 02914</u> <small style="display: flex; justify-content: space-between; width: 100%;"> Address City/Town, State Zip Code </small>	Owner's Contact: Number: 401-435-7500 x 40020 Email Address:
Contractor RI Reg. # _____ Address _____	Email address: Tel. No. _____
Designer <u>Derick Hopkins, PE</u> Address <u>10 Dorrance St. Suite 840 Providence RI 02903</u>	Tel. No. 401-808-8303
Name of Waterway <u>Bullocks Cove</u>	Estimated Project Cost (EPC): \$1,000,000 Application Fee:
<p>Provide Below a Description of Work As Proposed (required).</p> <p>Repair and protection of an eroded slope located at 0 Booth Ave. in East Providence, RI (AP/LOT 513-13-9). The design includes shoring up the eroded slope, restoring the soil surface, implementing native vegetation, with anti-erosion measures in place such as vegetated coir logs, jute mat reinforcement, and a constructed marsh with riprap sill to reduce the potential for destructive erosion in the future.</p>	

Have you or any previous owner filed an application for and/or received an assent for any activity on this property?
 (If so please provide the file and/or assent numbers): No

Is this site within a designated historic district? YES NO

Is this application being submitted in response to a coastal violation? YES NO

If YES, you must indicate NOV or C&D Number: _____

Name/ mailing addresses of adjacent property owners whose property adjoins the project site. Accurate mailing addresses will insure proper notification. _____ Applicant **must** initial to certify accuracy of adjacent property owners and accuracy of mailing addresses.

30 Booth Av - Horton, Diane L; 152 Oak Dr - Packhem, Richard N & Threasa; 144 Oak Crest Dr - Borges, Frank & Linda
153 Park Drive - Cardavelli, Nicole & Rosa; 148 Oak Drive - Anter, Mark S & Joanne F

STORMTOOLS (<http://www.beachsamp.org/resources/stormtools/>) is a planning tool to help applicants evaluate the impacts of sea level rise and storm surge on their projects. The Council encourages applicants to use STORMTOOLS to help them understand the risk that may be present at their site and make appropriate adjustments to the project design.

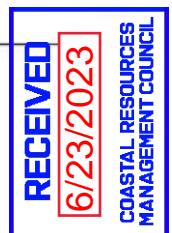
NOTE: The applicant acknowledges by evidence of their signature that they have reviewed the Rhode Island Coastal Resources Management Program, and have, where possible, adhered to the policies and standards of the program. Where variances or special exceptions are requested by the applicant, the applicant will be prepared to meet and present testimony on the criteria and burdens of proof for each of these relief provisions. The applicant also acknowledges by evidence of their signature that to the best of their knowledge the information contained in the application is true and valid. If the information provided to the CRMC for this review is inaccurate or did not reveal all necessary information or data, then the permit granted under this application may be found to be null and void. Applicant requires that as a condition to the granting of this assent, members of the CRMC or its staff shall have access to the applicant's property to make on-site inspections to insure compliance with the assent. This application is made under oath and subject to the penalties of perjury.

08/04

Mayor Roberto Dasilva
 Owner Name (PRINT)

[Signature]
 Owner's Signature (SIGN)

PLEASE REVIEW REVERSE SIDE OF APPLICATION FORM

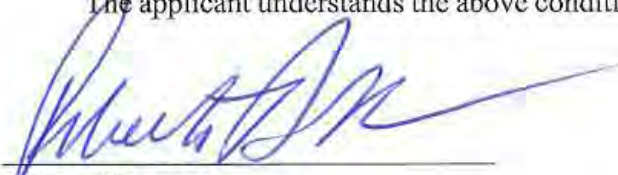


STATEMENT OF DISCLOSURE AND APPLICANT AGREEMENT AS TO FEES

The fees which must be submitted to the Coastal Resources Management Council are based upon representations made to the Coastal Resources Management Council by the applicant. If after submission of this fee the Coastal Resources Management Council determines that an error has been made either in the applicant's submission or in determining the fee to be paid, the applicant understands that additional fees may be assessed by the Coastal Resources Management Council. These fees must be paid prior to the issuance of any assent by the Coastal Resources Management Council.

The applicant understands the above conditions and agrees to comply with them.





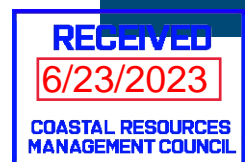
Owner Signature

6/15/2023
Date

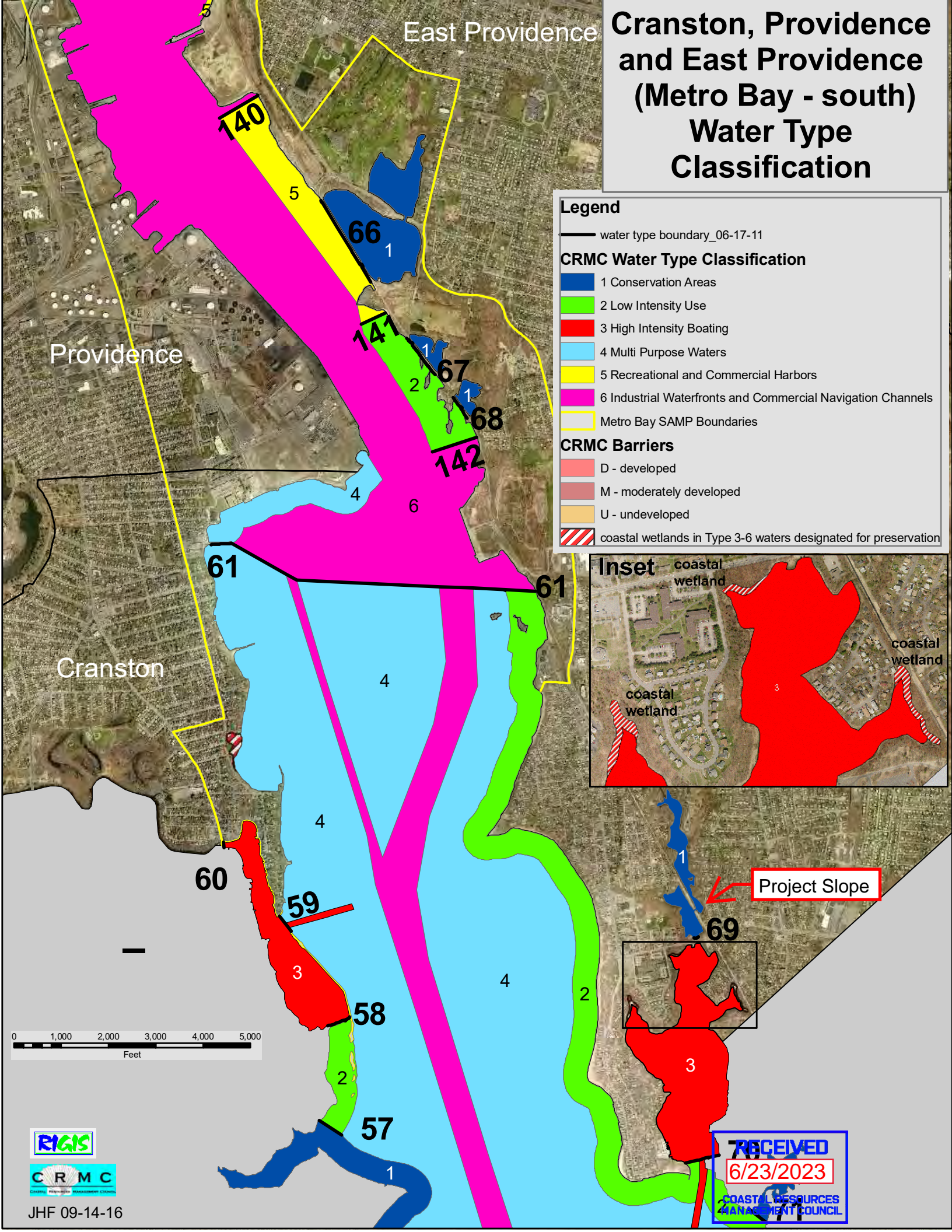
Roberto Dasilva
Print Name and Mailing Address

145 TAVANTON AVE
EAST PROVIDENCE, RI

Appendix B
RICRMC Water Type Classification Map



Cranston, Providence and East Providence (Metro Bay - south) Water Type Classification



Legend

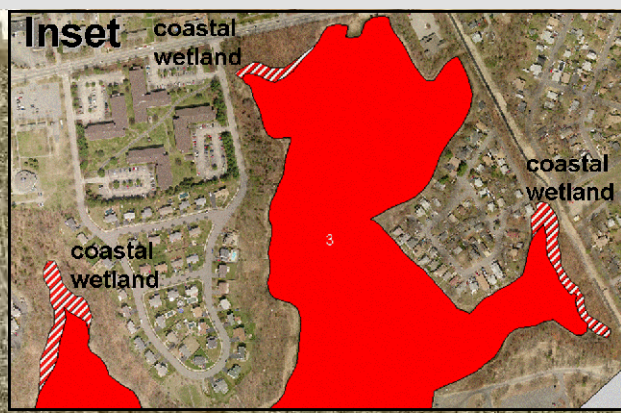
- water type boundary_06-17-11

CRMC Water Type Classification

- 1 Conservation Areas
- 2 Low Intensity Use
- 3 High Intensity Boating
- 4 Multi Purpose Waters
- 5 Recreational and Commercial Harbors
- 6 Industrial Waterfronts and Commercial Navigation Channels
- Metro Bay SAMP Boundaries

CRMC Barriers

- D - developed
- M - moderately developed
- U - undeveloped
- coastal wetlands in Type 3-6 waters designated for preservation



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RIGIS
CRMC
 Coastal Resources Management Council

JHF 09-14-16

Appendix C
RIDEM Environmental Resource Map



Legend

Wetland Types

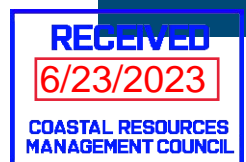
Wetland Type

- ESTUARINE EMERGENT WETLAND
- EMERGENT WETLAND: MARSH/WET MEADOW
- EMERGENT WETLAND: EMERGENT FEN OR BOG
- MARINE/ESTUARINE ROCKY SHORE
- ESTUARINE SCRUB-SHRUB WETLAND
- MARINE/ESTUARINE UNCONSOLIDATED SHORE
- FORESTED WETLAND: CONIFEROUS
- FORESTED WETLAND: DECIDUOUS
- FORESTED WETLAND: DEAD
- PALUSTRINE OPEN WATER
- RIVERINE NONTIDAL OPEN WATER
- RIVERINE TIDAL OPEN WATER
- SCRUB-SHRUB WETLAND: SHRUB SWAMP
- SCRUB-SHRUB WETLAND: SHRUB FEN OR BOG



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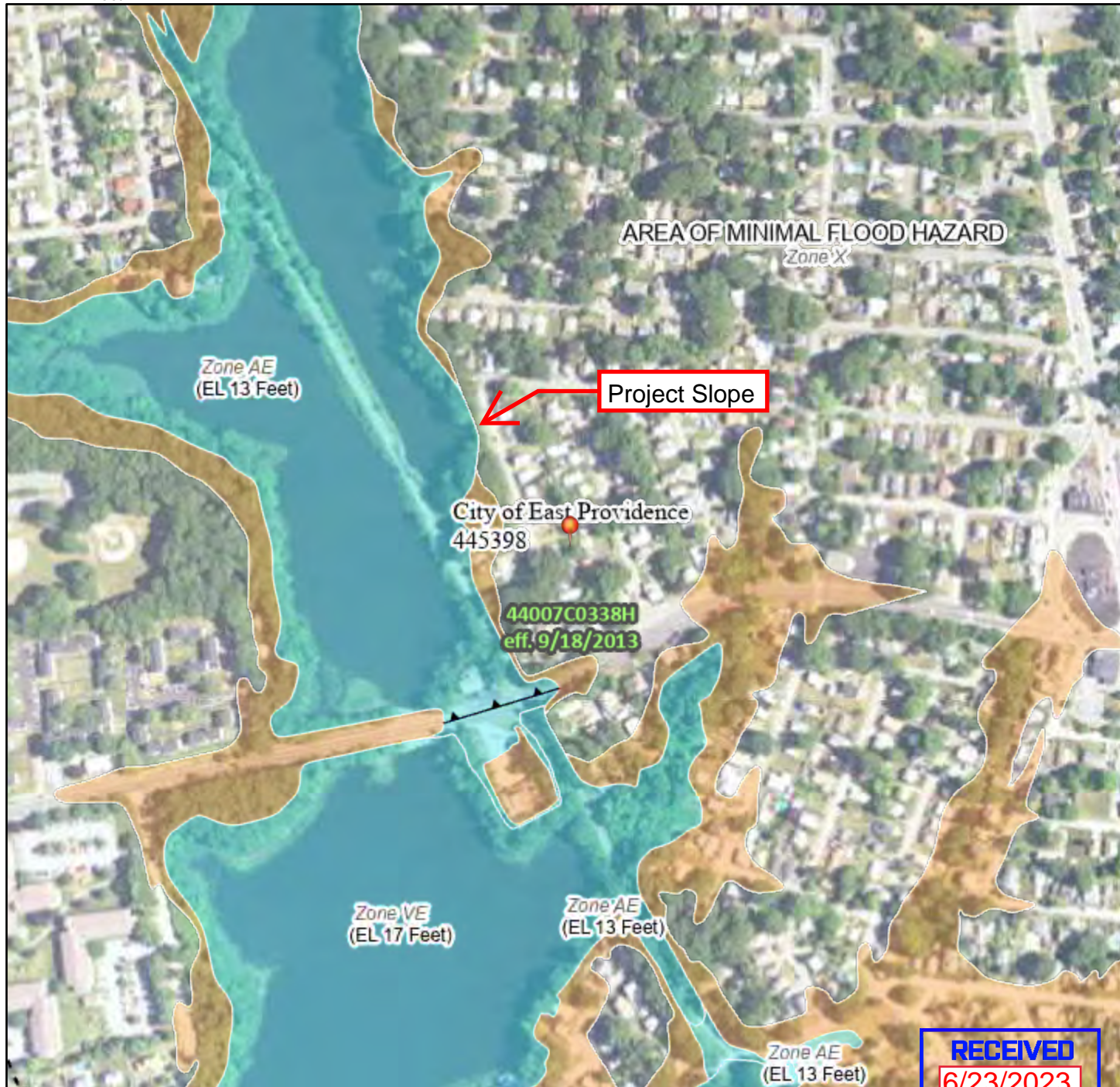
Appendix D
FEMA Firmette



National Flood Hazard Layer FIRMMette



71°21'27"W 41°45'50"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/31/2022 at 8:56 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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Appendix E
Site Plans (11" x 17")



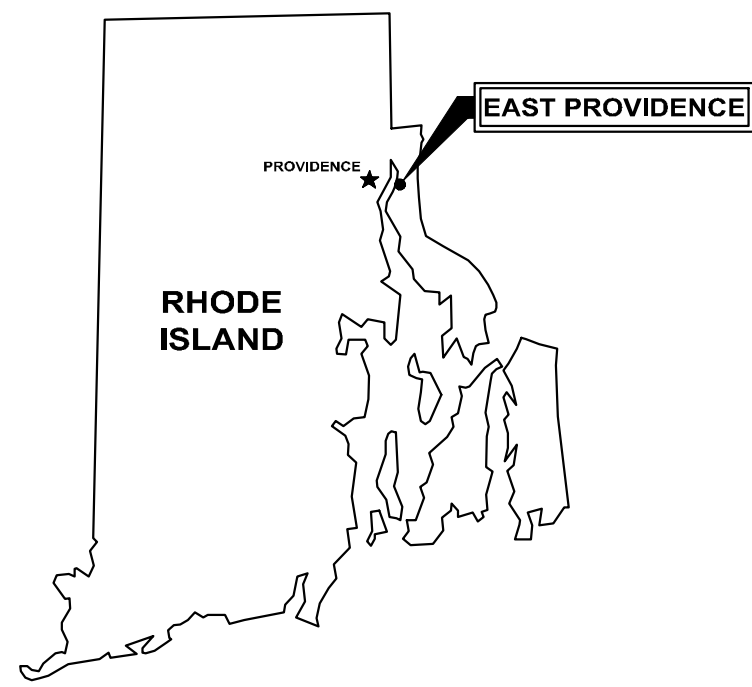
CITY OF EAST PROVIDENCE, RHODE ISLAND

CONTRACT DRAWINGS FOR

BOOTH AVENUE SLOPE STABILIZATION

JUNE 2023

RICRMC PERMIT SUBMISSION



DRAWING INDEX

GENERAL	
---	COVER SHEET
CIVIL	
C-1	GENERAL NOTES, LEGEND, ABBREVIATIONS
C-2	SITE PLAN AND PROFILE
C-3	SECTIONS I
C-4	SECTIONS II
C-5	DETAILS I
C-6	DETAILS II
C-7	LANDSCAPE PLAN
C-8	EROSION CONTROL NOTES AND DETAILS



LOCATION PLAN
SCALE: NTS

WRIGHT-PIERCE 
Engineering a Better Environment



621.8156 | www.wright-pierce.com

FOR REVIEW June 2023
FOR BIDDING _____
WP PROJECT No. 13981

GENERAL NOTES

- 1. THE CITY OF EAST PROVIDENCE WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE CITY OF EAST PROVIDENCE. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CITY OF EAST PROVIDENCE SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE CITY OF EAST PROVIDENCE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS OF WAY AND EASEMENTS ARE AVAILABLE FOR REVIEW FROM THE CITY OF EAST PROVIDENCE.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH THE MUTCD AND ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUBMIT AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION. THE POLICE DEPARTMENT AND FIRE DEPARTMENT ARE TO BE NOTIFIED AT LEAST 24-HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR. REFER TO SPECIFICATION SECTION 01570.
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
5. CONTRACTOR SHALL COMPLY WITH THE COORDINATION REQUIREMENTS AND RELATED COSTS, IF ANY, AS SPECIFIED IN SPECIFICATION SECTION 01050.
6. CONTRACTOR SHALL NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.
7. ALL EXISTING SEWER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. ANY EXISTING SEWERS, STORM DRAIN LINES OR CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF EAST PROVIDENCE, EXCEPT WHEN IN DIRECT CONFLICT WITH THE NEW WORK OR WHEN NOT SHOWN OR INDICATED.
8. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE EXCAVATION IS BACKFILLED. INJURY TO ANY SUCH STRUCTURES 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.
9. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE TO THE RESPECTIVE UTILITY POLE OWNER. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
10. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER FOR REVIEW FOR CONFORMANCE WITH THE PLANS. TEST PITS ARE REQUIRED WHERE SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER. TEST PITS WILL BE DUG AT LEAST 10 CALENDAR DAYS PRIOR TO CONNECTING PROPOSED SEWERS TO EXISTING SEWERS.

EXISTING SITE CONDITIONS

THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN, OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED.

- 11. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. TEST PITS, MAY BE REQUIRED. UTILITY CONTACTS ARE AS FOLLOWS:

Table with 3 columns: Utility Type, Address/Phone, and Contact Info. Includes Electric (RI Energy), Water/Sewer/Drain (City of East Providence), Telephone (Verizon), Dig Safe (Dig Safe System, Inc.), and Gas (RI Energy).

- 12. THERE ARE NO KNOWN HAZARDOUS ENVIRONMENTAL CONDITIONS WITHIN THE AREA OF WORK. REFER TO SPECIFICATION SECTION 00800-SC-5.306. IF THE PRESENCE OF HAZARDOUS ENVIRONMENTAL CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE CITY OF EAST PROVIDENCE AND THE ENGINEER IMMEDIATELY. ALL ACTIVITIES, HANDLING AND DISPOSAL OF HAZARDOUS ENVIRONMENTAL CONDITIONS AND MATERIALS SHALL BE IN ACCORDANCE WITH OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.

SITE DEMOLITION

- 1. REFER TO THE EXISTING SITE PLAN, FOR ADDITIONAL INFORMATION REGARDING EXISTING SITE. REFER TO THE LAYOUT DRAWING FOR LIMITS OF WORK.
2. REFER TO SPECIFICATION SECTION 01010B, WHICH CONTAINS INFORMATION ON CONSTRAINTS OF CONSTRUCTION SEQUENCING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE CITY OF EAST PROVIDENCE RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING, EQUIPMENT AND MATERIALS DESIGNATED FOR DEMOLITION. SUCH MATERIALS TO BE RETAINED SHALL BE PROPERLY STORED IN AN ON-SITE LOCATION. COORDINATE LOCATION AND MATERIALS TO BE SALVAGED WITH THE TOWN OF CITY OF EAST PROVIDENCE/ENGINEER. REFER TO SPECIFICATION SECTION 02050A
4. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AS PART OF THE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01720.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND GROUNDWATER DEWATERING OPERATIONS.

SITE CLEARING, GRUBBING AND GRADING

- 1. STRIPPING OF TOPSOIL (LOAM) SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02115. REFER TO THE LAYOUT AND GRADING DRAWINGS FOR LIMIT OF WORK AND STRIPPING.
2. CONTRACTOR SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02110. CLEARING LIMITS SHALL BE AS INDICATED ON THE DRAWINGS, BUT AT ALL TIMES WITHIN EXISTING ROAD RIGHTS OF WAY AND PROPERTY LINES. ALL CLEARING AND GRUBBING MATERIAL SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS.
3. CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL AND DRAINAGE MEASURES IN ALL AREAS OF WORK, AND CONFINE SOIL SEDIMENT TO WITHIN THE LIMITS OF EXCAVATION AND GRADING. PRIOR TO BEGINNING EXCAVATION WORK, EROSION CONTROL FENCE SHALL BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE ACTUAL LIMITS OF GRUBBING AND/OR GRADING, AND AS SHOWN ON THE DRAWINGS. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL INSTALL AN TURBIDITY CURTAIN. IN THE WATER, AT THE BASE OF ANY DISTURBED SLOPES. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES. EROSION CONTROL FENCE SHALL ALSO BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION. ALL INSTALLED EROSION CONTROL FACILITIES SHALL BE REMOVED AT THE END OF THE PROJECT. REFER TO SPECIFICATION SECTION 02270.
4. BORING LOGS FOR THE PROJECT SITE ARE INCLUDED IN APPENDIX A OF THE SPECIFICATIONS. THESE ARE PROVIDED FOR INFORMATION PURPOSES ONLY. PLEASE NOTE THAT THE SOIL DESCRIPTIONS PROVIDED ON THE BORING LOGS DO NOT REPRESENT FIELD CONDITIONS OTHER THAN AT THE SPECIFIC TEST BORING LOCATION. THE CONDITIONS BETWEEN BORING LOCATIONS MAY VARY FROM THOSE SHOWN ON THE TEST BORING LOGS.
5. CONTRACTOR SHALL CONTROL DUST ON THE CONSTRUCTION SITE TO A REASONABLE LIMIT, AS DETERMINED BY THE ENGINEER, AND AS OUTLINED IN SPECIFICATION SECTION 01562.
6. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS AND PLANT DRIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
7. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SUITABLE EXCAVATED MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH EXCESS MATERIAL DISPOSED OF AT A LOCATION PROVIDED BY THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY CONSTRUCTION ACTIVITIES TO AT

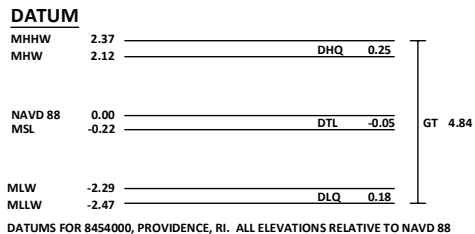
- LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE CITY OF EAST PROVIDENCE AND ENGINEER.
9. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
10. ALL NON-ROADWAY AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4-INCHES OF SOIL SHALL BE LOAM. REFER TO SPECIFICATION SECTION 02485, LANDSCAPING/LOAM AND SEED.

CIVIL SITE LAYOUT

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
2. REFER TO CIVIL PLAN SHEETS FOR ADDITIONAL LAYOUT INFORMATION.
3. THE LOCATIONS AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE CITY OF EAST PROVIDENCE AND ENGINEER. THE CONTRACTOR SHALL LIMIT ACTIVITIES TO THESE AREAS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTLE ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OR RHODE ISLAND AT NO ADDITIONAL COST TO THE CITY OF EAST PROVIDENCE.
5. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
6. ALL ELEVATIONS REFER TO THE NAVD88 DATUM. ORIENTATION IS GRID NORTH ON THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM. CONTRACTOR SHALL VERIFY ELEVATIONS PRIOR TO USING IN CONSTRUCTION.
7. EXISTING CONDITIONS SITE PLAN DEVELOPED FROM SURVEY PERFORMED BY WATERMAN ENGINEERING COMPANY, DATED 09/18/2018, AND EXISTING RECORD DRAWING INFORMATION. ELEVATIONS AND LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD

CIVIL SITE PIPING

- 1. ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4-FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED (SOLID SLEEVE). REFER TO SPECIFICATION SECTION 02655.
2. MANHOLES ARE 4-FEET IN DIAMETER UNLESS OTHERWISE NOTED. THE TOP OF MANHOLE FRAMES SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE NOTED ON DRAWINGS. SEWER MANHOLE INVERTS SHOWN ON THE DRAWINGS ARE TO THE INSIDE FACE OF THE MANHOLE.
3. CONTRACTOR SHALL RE-SHAPE INVERTS AS REQUIRED WHEN CONNECTING INTO EXISTING MANHOLES.
4. REFER TO SPECIFICATION SECTION 02200 FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
5. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE-YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
6. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE CIVIL EXISTING CONDITIONS AND DEMOLITION PLAN. ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF EAST PROVIDENCE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS IN ACCORDANCE WITH SPECIFICATION SECTION 02050.



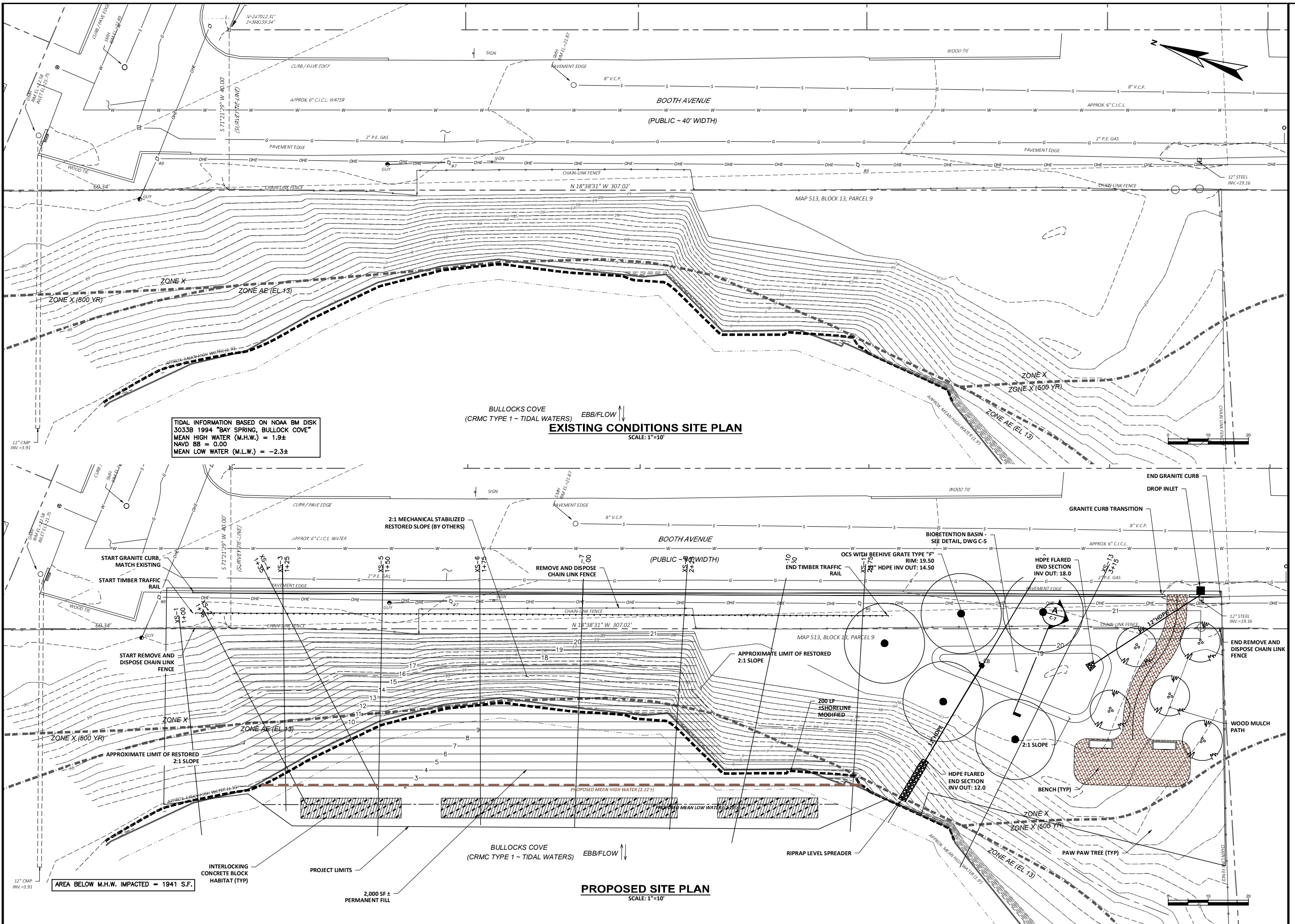
CIVIL ABBREVIATIONS

Table mapping symbols to abbreviations and full names. Includes symbols for diameter, number, approved, approximate, brick, building, catch basin, center, cubic feet per second, cast iron, centerline, corrugated metal pipe, cleanout, concrete, corner, cubic yard, demolition, drain manhole, ductile iron, drain, drawing, elevation, electric manhole, force main, feet, gas, high density polyethylene, hydrant, inch, invert, pounds, linear foot, maximum, manhole, minimum, north, national geodetic vertical datum, not available/applicable, not to scale, outside diameter, pounds per square foot, pounds per square inch, point of tangency, polyvinyl chloride, reinforced concrete pipe, required, slope, sewer, storm drain, square feet, sanitary sewer manhole, station, temporary bench mark, top of structure, typical, underdrain, underground, underground electric, vitrified clay, w/w, and potable water.

LEGEND table with columns for EXISTING and PROPOSED. Lists various features like Property/Row Line, Setback Line, Easement Line, Centerline, Edge of Pavement, Curbing, Edge of Gravel, Edge of Concrete, Contour, Building, Treeline, Chain Link Fence, Stockade Fence, Barb Wire Fence, Retaining Wall, Guardrail, Sewer, Sewer Force Main, Gas, Water, Storm Drain, Relined Pipe, Culvert, Underground Electric, Overhead Electric, Underground Telephone, Underground Cable TV, Iron Pipe/Rebar, Drillhole, Monument, Survey Control Point, Spot Elevation, Sewer Manhole, Drainage Manhole, Catch Basin, Electric Manhole, Telephone Manhole, Shutoff Valve, Water Service Shutoff, Station, Yard Hydrant, Hydrant, Gas Service Shutoff, Underdrain, Gas Gate Valve, Utility Pole, Utility Pole W/ Guy, Utility Pole W/ Light, Light Pole, Bollard, Flagpole, Coniferous Tree, Deciduous Tree, Shrub, Wetland Flag, Edge of Water, Stream, Edge of Wetlands, Floodplain, Wetlands, Drainage Flow, Drainage Swale, Pavement Markings, Sign, Mailbox, Temporary Bench Mark, Test Pit, Test Boring, Test Probe, Monitoring Well, Limit of Work, Silt Fence, Riprap, Railroad, Matchline, and Rock Outcrop.

TIDAL INFORMATION BASED ON NOAA BM DISK 30338 1994 "BAY SPRING, BULLOCK COVE"
MEAN HIGH WATER (M.H.W.) = 1.9 ±
NAVD 88 = 0.00
MEAN LOW WATER (M.L.W.) = -2.3 ±

Project information and title block. Includes Designer (J. MICHAUD), CAD (J. MICHAUD), Checked By (J. MICHAUD), Date (11/27/2023), Approved By (J. MICHAUD), Date (11/27/2023), Project No. (13981). Includes title 'CITY OF EAST PROVIDENCE, RHODE ISLAND BOOTH AVENUE SLOPE STABILIZATION' and 'DRAWING C-1'. Includes Wright-Pierce logo and contact info: 888.621.8156 | www.wright-pierce.com. Includes a 'RECEIVED' stamp dated 6/23/2023 from Coastal Resources Management Council.



TIDAL INFORMATION BASED ON NOAA BM DISK 3033B 1994 "BAY SPRING, BULLOCK COVE"
 MEAN HIGH WATER (M.H.W.) = 1.9±
 NAVD 88 = 0.00
 MEAN LOW WATER (M.L.W.) = -2.3±

EXISTING CONDITIONS SITE PLAN

PROPOSED SITE PLAN

J. MICHAUD

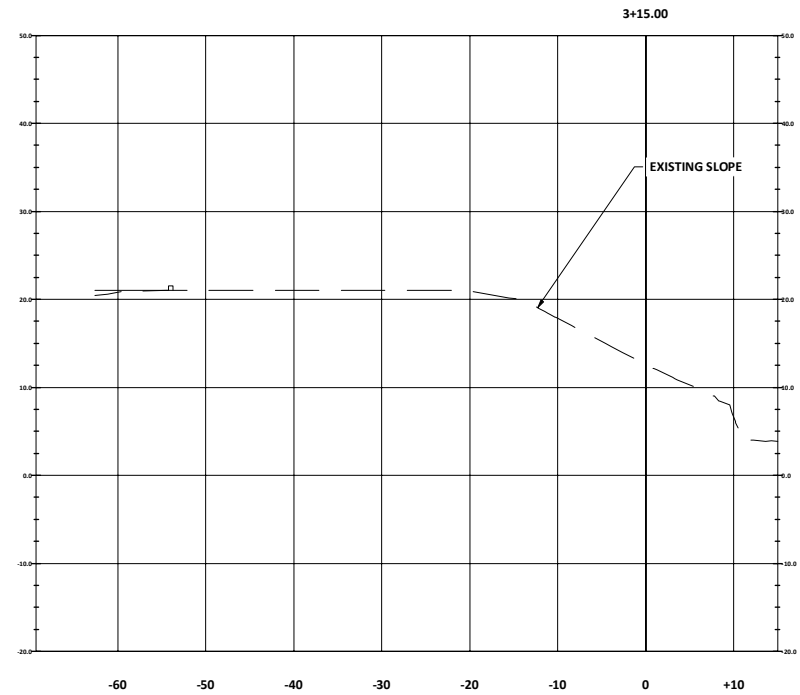
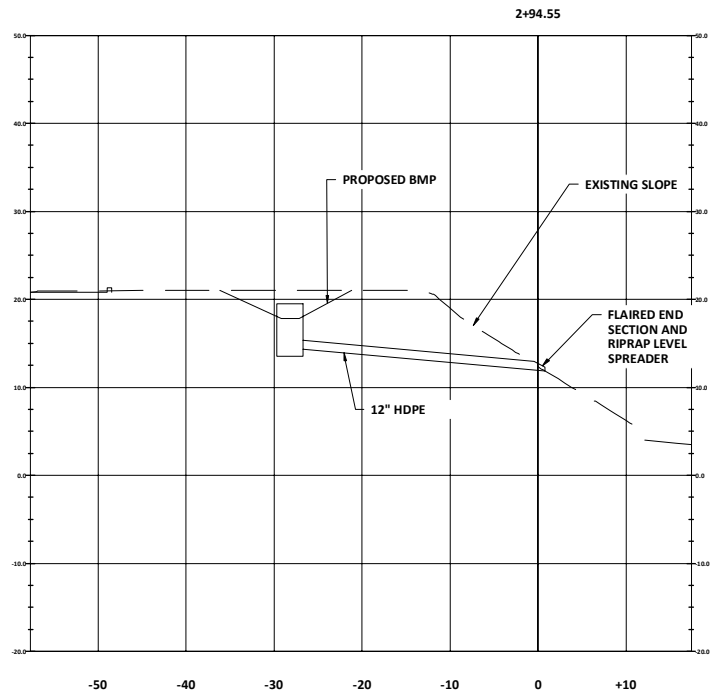
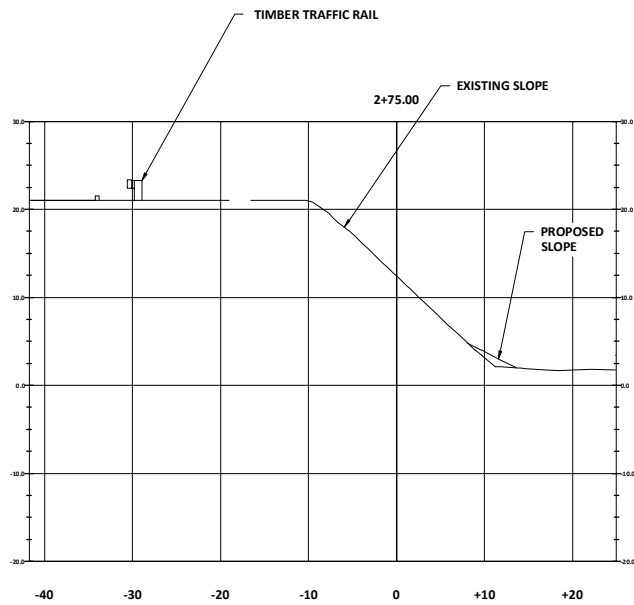
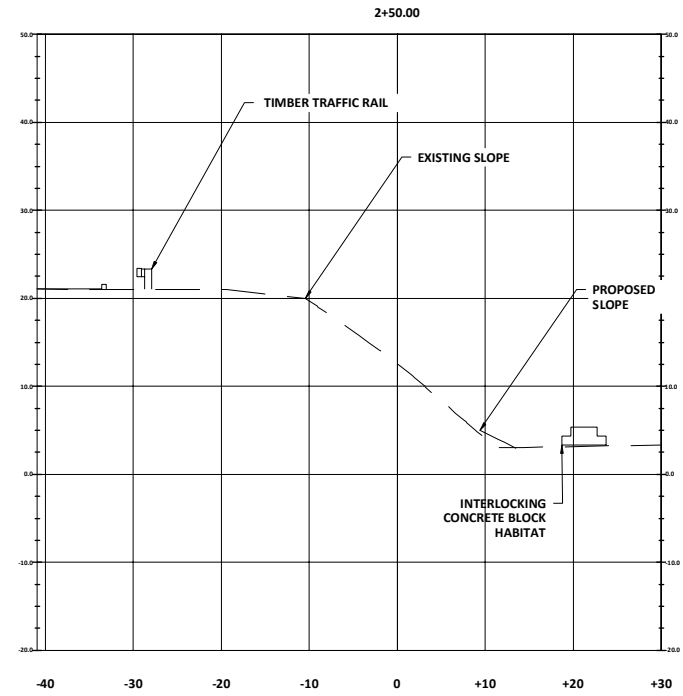
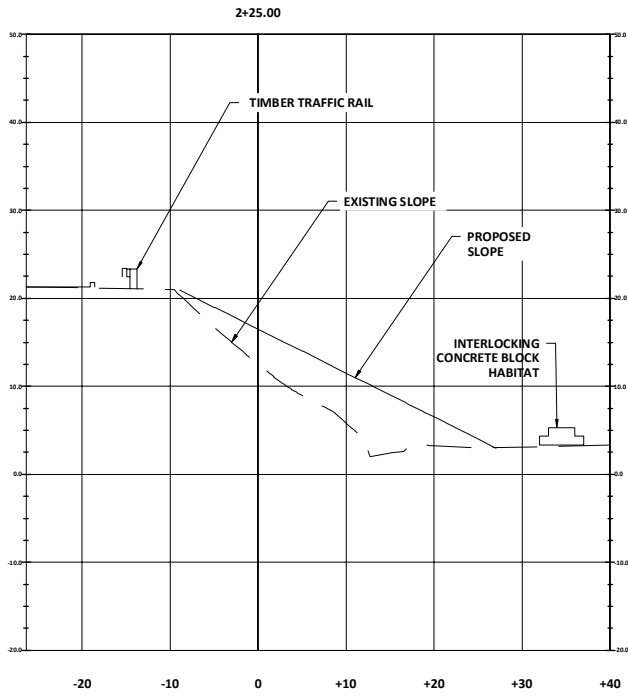
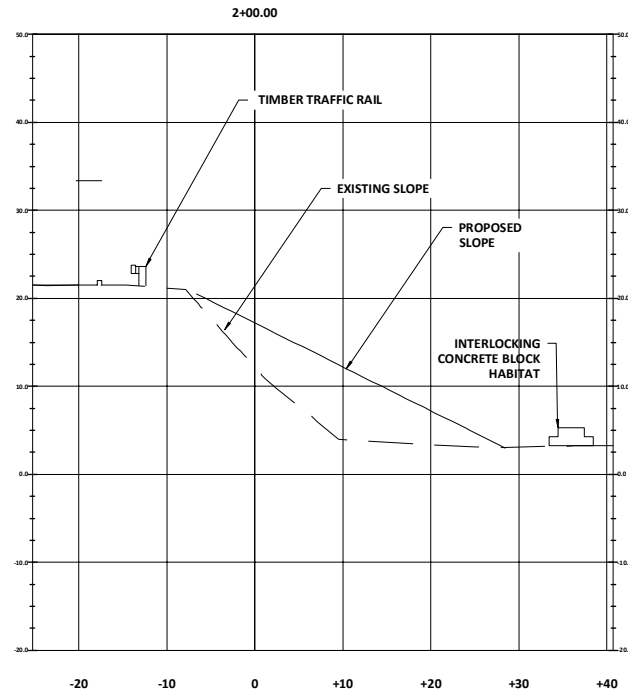
13961

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CITY OF EAST PROVIDENCE, RHODE ISLAND
 BOOTH AVENUE SLOPE STABILIZATION

PLAN AND PROFILE



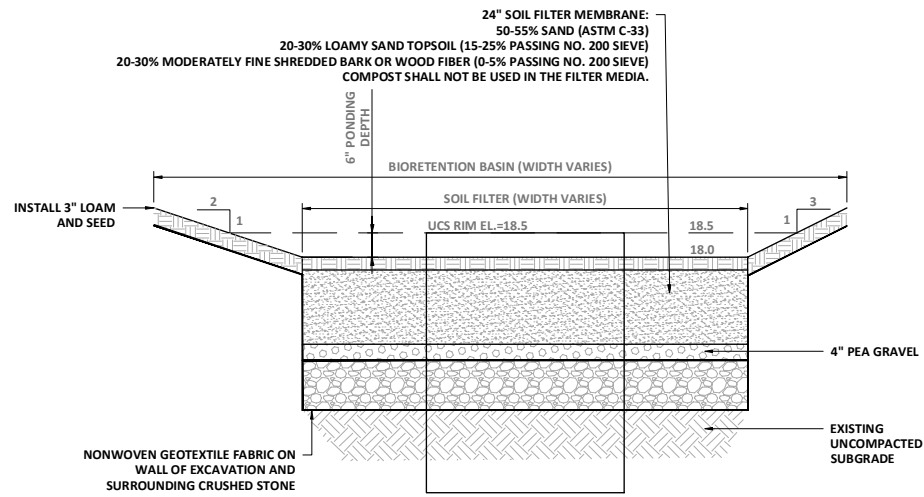
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SUBMISSIONS/REVISIONS		APP'D	DATE
NO			
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CAD COORD:			
CHECKED BY:			
DATE:			
APPROVED BY:			
DATE:			
PROJECT NO.:	13951		

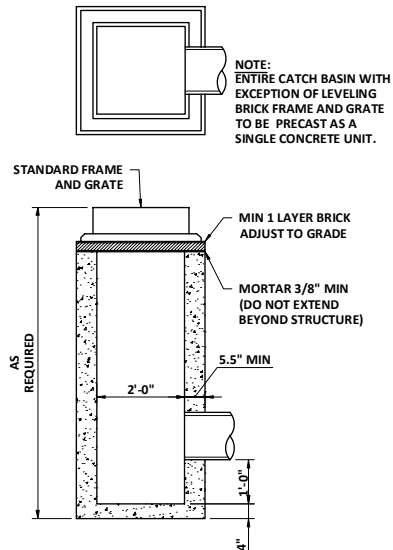
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CITY OF EAST PROVIDENCE, RHODE ISLAND BOOTH AVENUE SLOPE STABILIZATION	
DRAWING C-4	
SECTION 5/1	

LAST SAVED BY: REMOTECAD 10/27/2022 2:00 PM

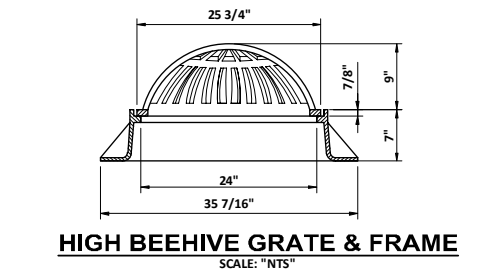
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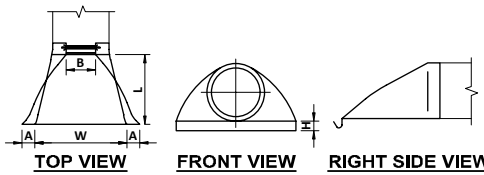
BIORETENTION
SCALE: NTS



2'x2' CATCH BASIN (TYPE F)
SCALE: NTS



HIGH BEEHIVE GRATE & FRAME
SCALE: "NTS"

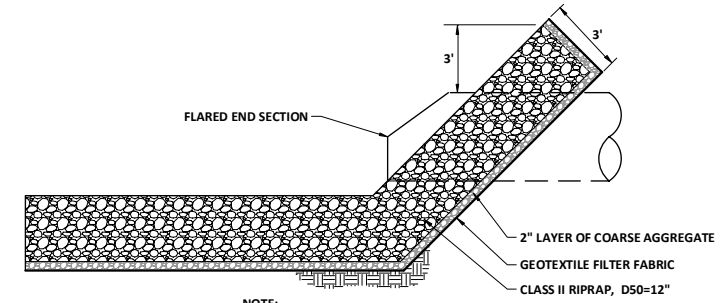


PIPE DIAMETER (in)	
DIAMETER (in)	18.0
A (in)	7.5
B(max) (in)	15.0
H (in)	6.5
L (in)	32.0
W (in)	35.0

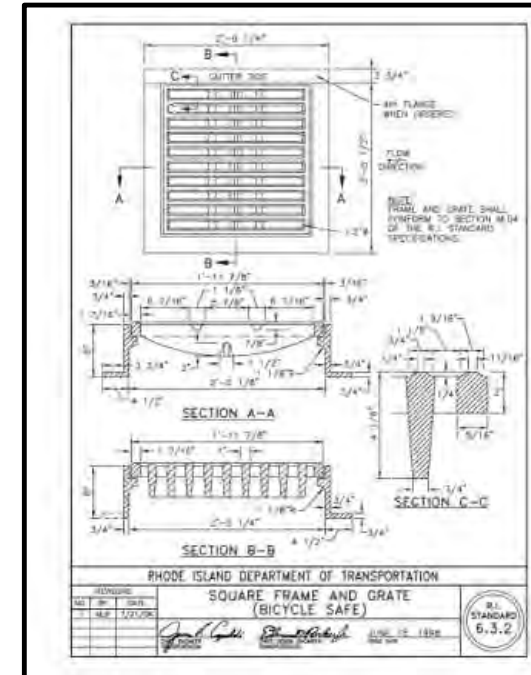
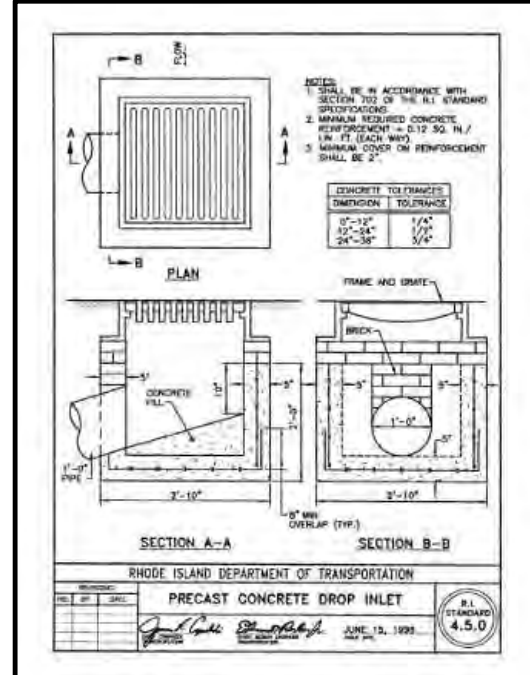
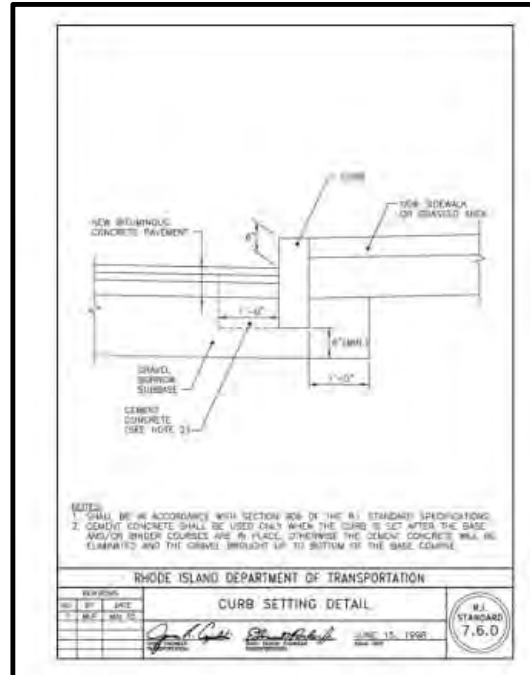
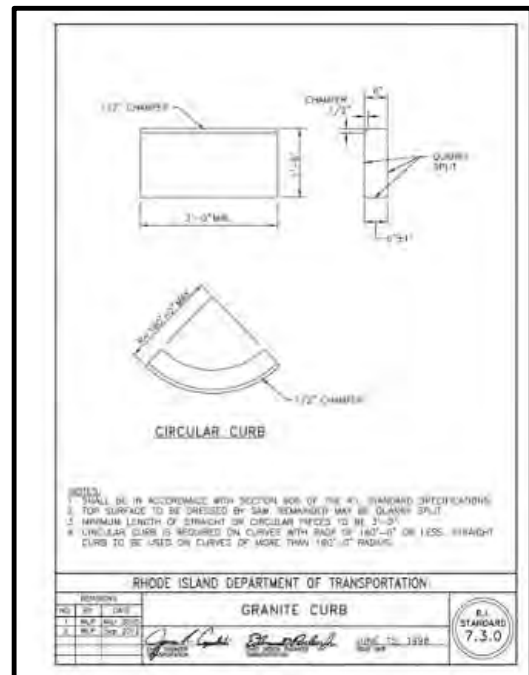
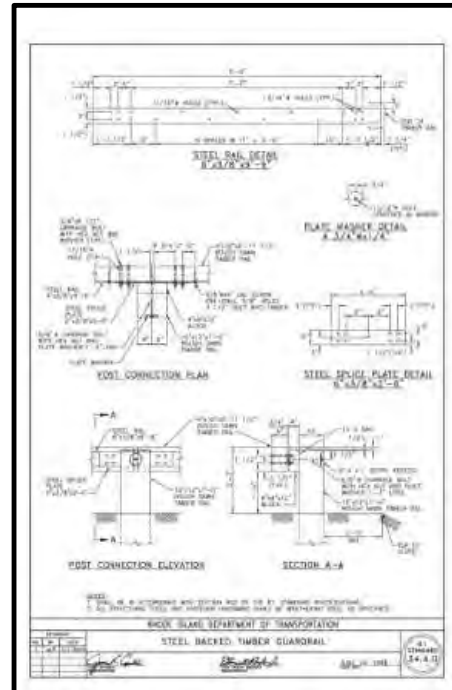
HDPE FLARED END SECTION
SCALE: NTS

RIPRAP STABILIZATION TABLE

RIPRAP ID	LOCATION	WIDTH AT PIPE OUTLET (ft)	WIDTH AT RIPRAP OUTLET (ft)	LENGTH (ft)	D50 (in)
1	30 INCH RCP FLARED END SECTION	5	5	12	12



PIPE LEVEL SPREADER OUTLET w/FLARED END
SCALE: NTS



SUBMISSIONS/REVISIONS

NO	DATE	DESCRIPTION

DESIGNED BY: J. SHACTMAN
 CAD: J. MICHAUD
 CHECKED BY: J. MICHAUD
 DATE:
 APPROVED BY:
 DATE:
 PROJECT NO.: 13981

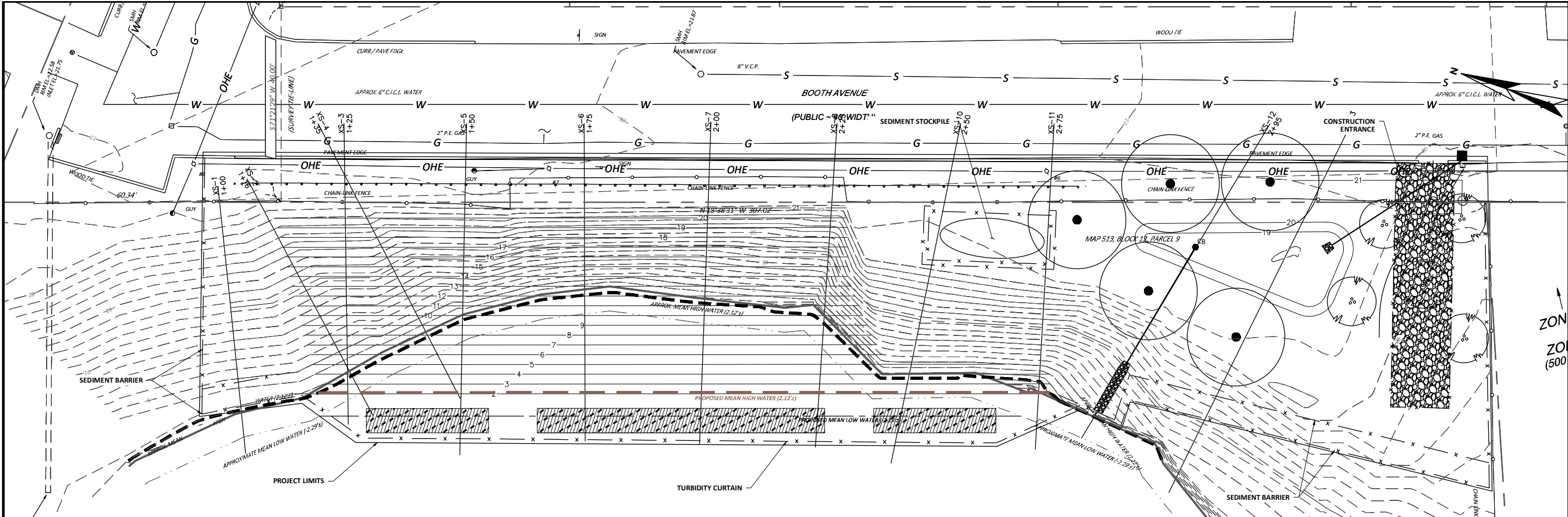
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CITY OF EAST PROVIDENCE, RHODE ISLAND
 BOOTH AVENUE SLOPE STABILIZATION

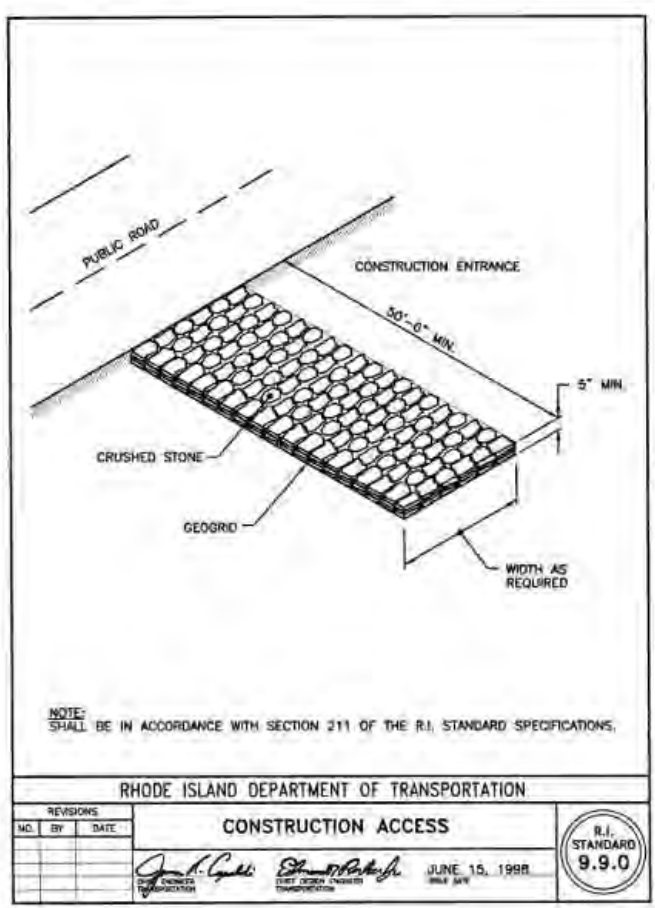
DRAWING
 C-5

DETAILS IV

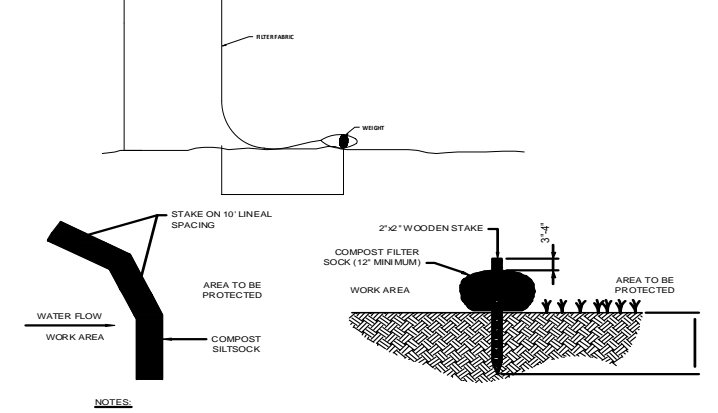


SEDIMENT AND EROSION PLAN
SCALE: 1"=10'

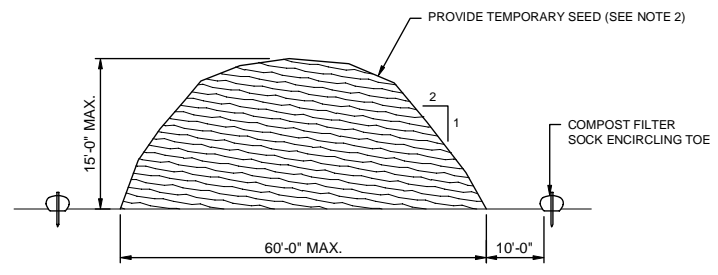
1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.
3. THE CONTRACTOR SHALL UPDATE THE SESC, AND PERFORM THE REQUIRED INSPECTION AND REPORT KEEPING ACTIVITIES OF THE SESC.
4. THE CONTRACTOR SHALL INSTALL EROSION CONTROLS PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL PROVIDE DUST CONTROL VIA ON-SITE WATER TRUCK OR OTHER APPROVED METHODS.
6. THE CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AREAS.
7. THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION ENTRANCES (ANTI-TRACK PADS) AT ALL POINTS OF INGRESS AND EGRESS TO THE SITE.
8. WATER FROM DEWATERING OPERATIONS SHALL BE PUMPED UPGRADIENT TO A MINIMUM STRAW-BALE ENCLOSURE OR OTHER APPROVED DEVICE. ALL DEWATERING SHOULD BE IN CONFORMANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
9. CONTRACTOR SHALL CONTAIN AND DISPOSE OF SITE-WASTE CONSISTENT WITH LOCAL, STATE, AND FEDERAL REGULATIONS
10. CONTRACTOR SHALL FURNISH INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
11. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER OR OWNERS REPRESENTATIVES REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
13. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROL FOR REVIEW WITH GENERAL CONTRACTOR AND OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS.
15. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL CONNECTED TO POST-CONSTRUCTION POSITION.
16. EXCESS TOPSOIL AND SEDIMENT CAPTURED IN EROSION CONTROL MEASURES SHALL BE STOCKPILED ON SITE AND SEEDED.
17. CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION FENCE.
18. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE WORK AREA HAS BEEN STABILIZED.
19. CONTRACTOR SHALL CLEAN DEBRIS AND SOIL FROM ALL CATCH BASINS AND DRAINS AFTER SITE STABILIZATION AND PRIOR TO SITE ACCEPTANCE.



CONSTRUCTION ENTRANCE
SCALE: NTS



SEDIMENT BARRIER
SCALE: NTS



- NOTES:
1. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
 2. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE RIDOT STD. M.18.10.5 SEED MIX.

SEDIMENT STOCKPILE
SCALE: NTS

NO.	DATE	DESCRIPTION

DESIGNED BY: JIMICHAUD
 CAD: JIMICHAUD
 CHECKED BY: JIMICHAUD
 DATE: 6/16/23
 APPROVED BY: JIMICHAUD
 DATE: 6/16/23
 PROJECT NO.: 13881

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CITY OF EAST PROVIDENCE, RHODE ISLAND
BOOTH AVENUE SLOPE STABILIZATION

DRAWING
C-7

Appendix F
Site Plans (8 1/2" x 11")



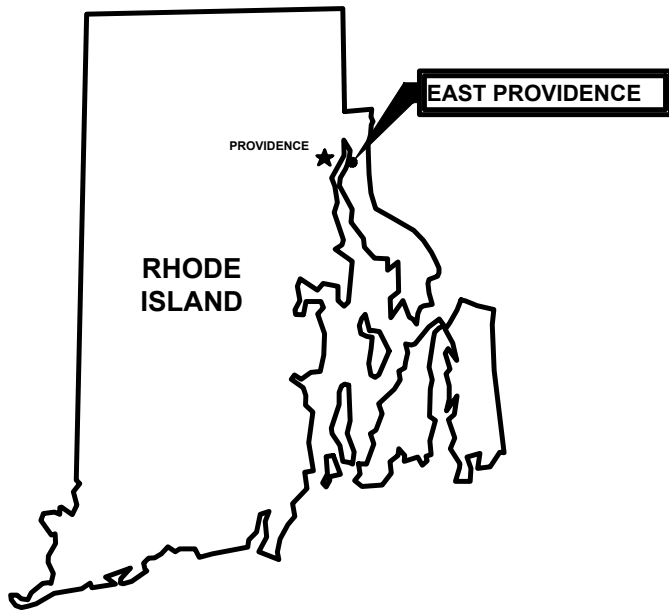
CITY OF EAST PROVIDENCE, RHODE ISLAND

CONTRACT DRAWINGS FOR BOOTH AVENUE SLOPE STABILIZATION

June 2023

RICRMC PERMIT SUBMISSION

FOR REGULATORY REVIEW ONLY



DRAWING INDEX

<u>GENERAL</u>	
-	COVER PAGE
<u>CIVIL</u>	
EX-1	EXISTING CONDITIONS
EX-2	EXISTING CONDITIONS
EX-3	EXISTING CONDITIONS
PR-1	PROJECT AREA
PR-2	PROJECT AREA
CS-1	CROSS SECTION
CS-2	CROSS SECTION
CS-3	CROSS SECTION
CS-4	CROSS SECTION

DATUM

MHHW	2.37	_____	DHQ	0.25		GT 4.84
MHW	2.12	_____				
NAVD 88	0.00	_____	DTL	-0.05		
MLW	-0.22	_____				
MLW	-2.29	_____	DLQ	0.18		
MLLW	-2.47	_____				

DATUMS FOR 8454000, PROVIDENCE, RI. ALL ELEVATIONS RELATIVE TO NAVD 88



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Engineering a Better Environment

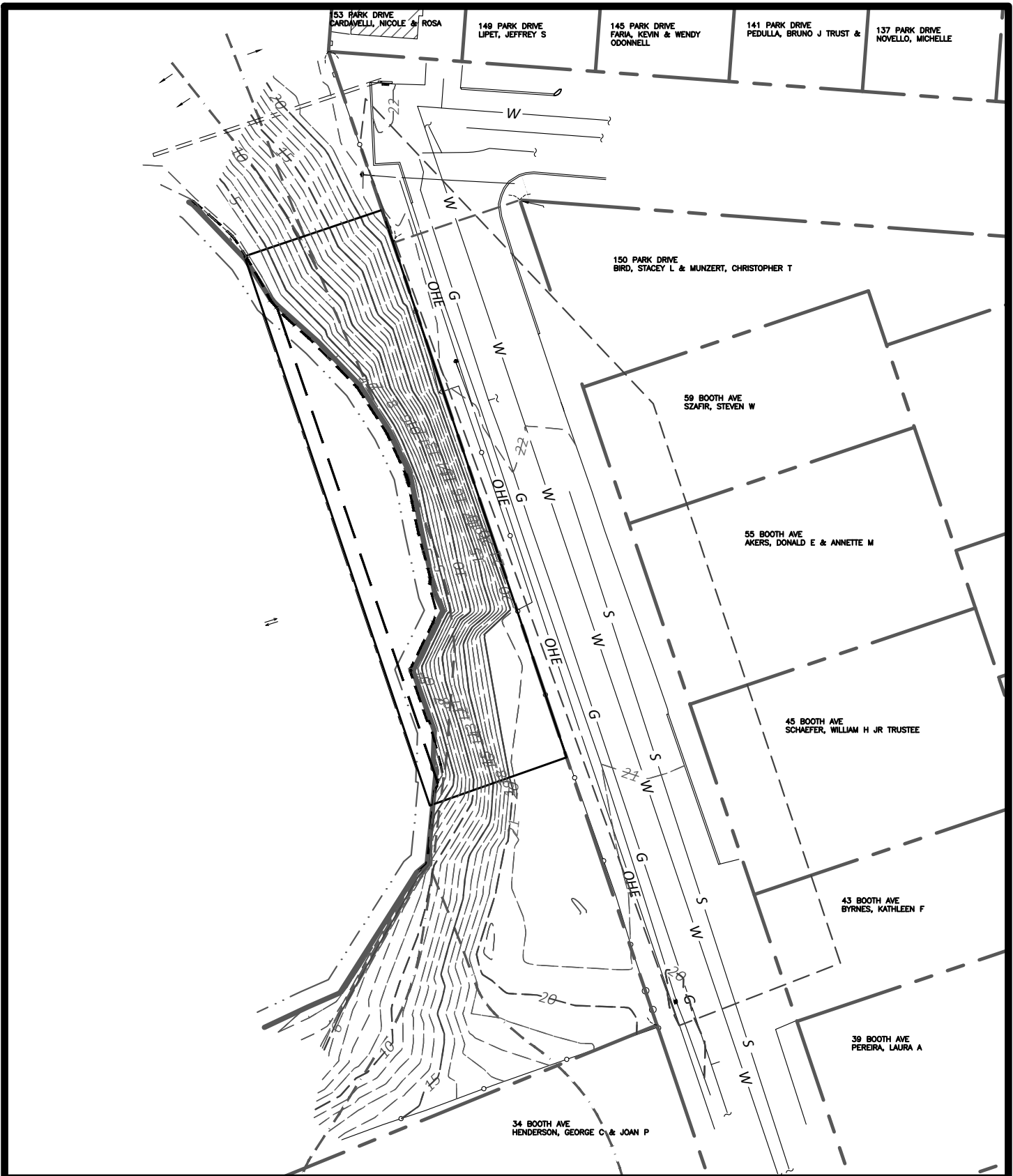
888.621.8156 | www.wright-pierce.com

FOR REVIEW _____

FOR BIDDING _____

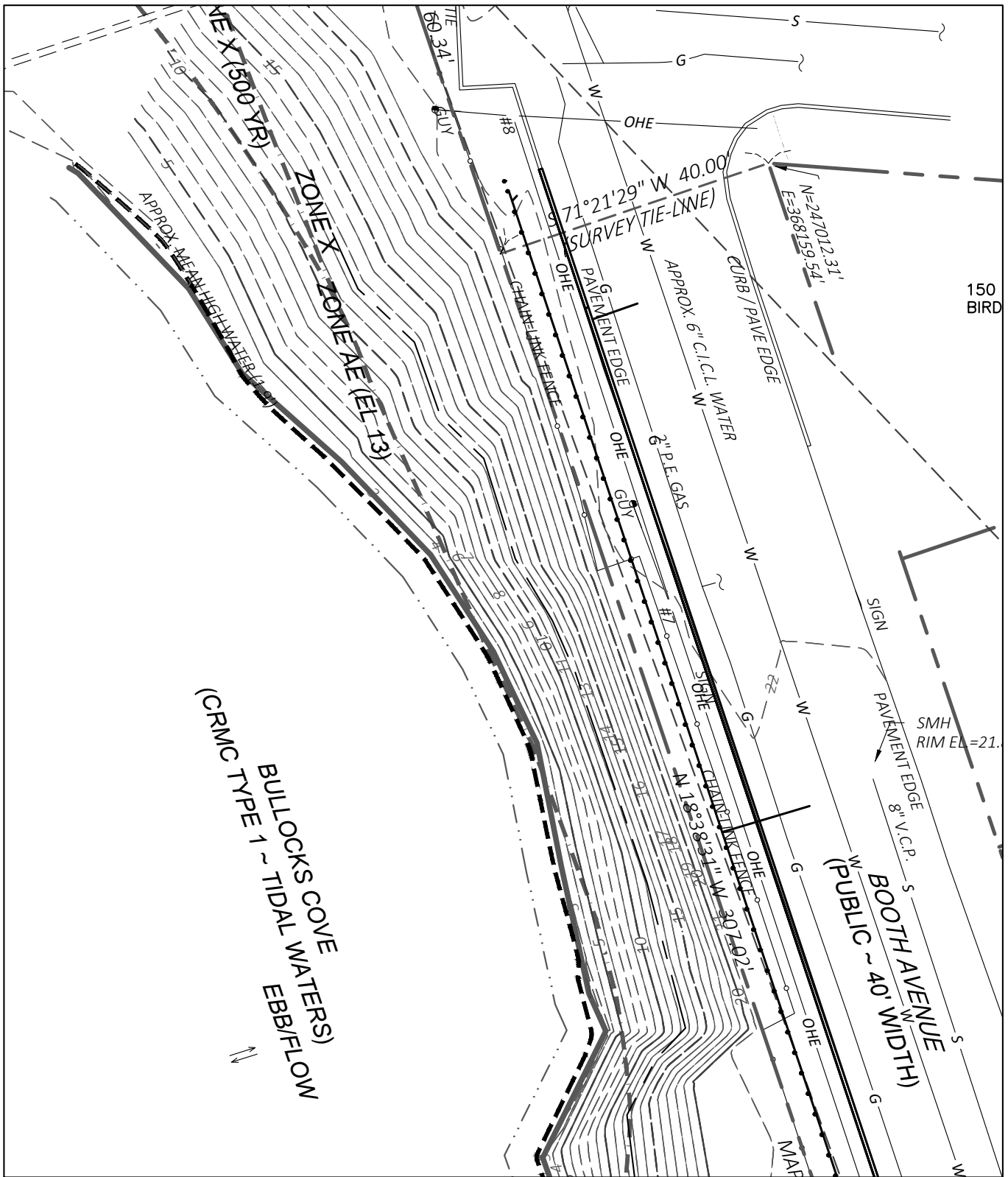
WP PROJECT No. 13981





	NO.	REVISIONS	
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	APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:

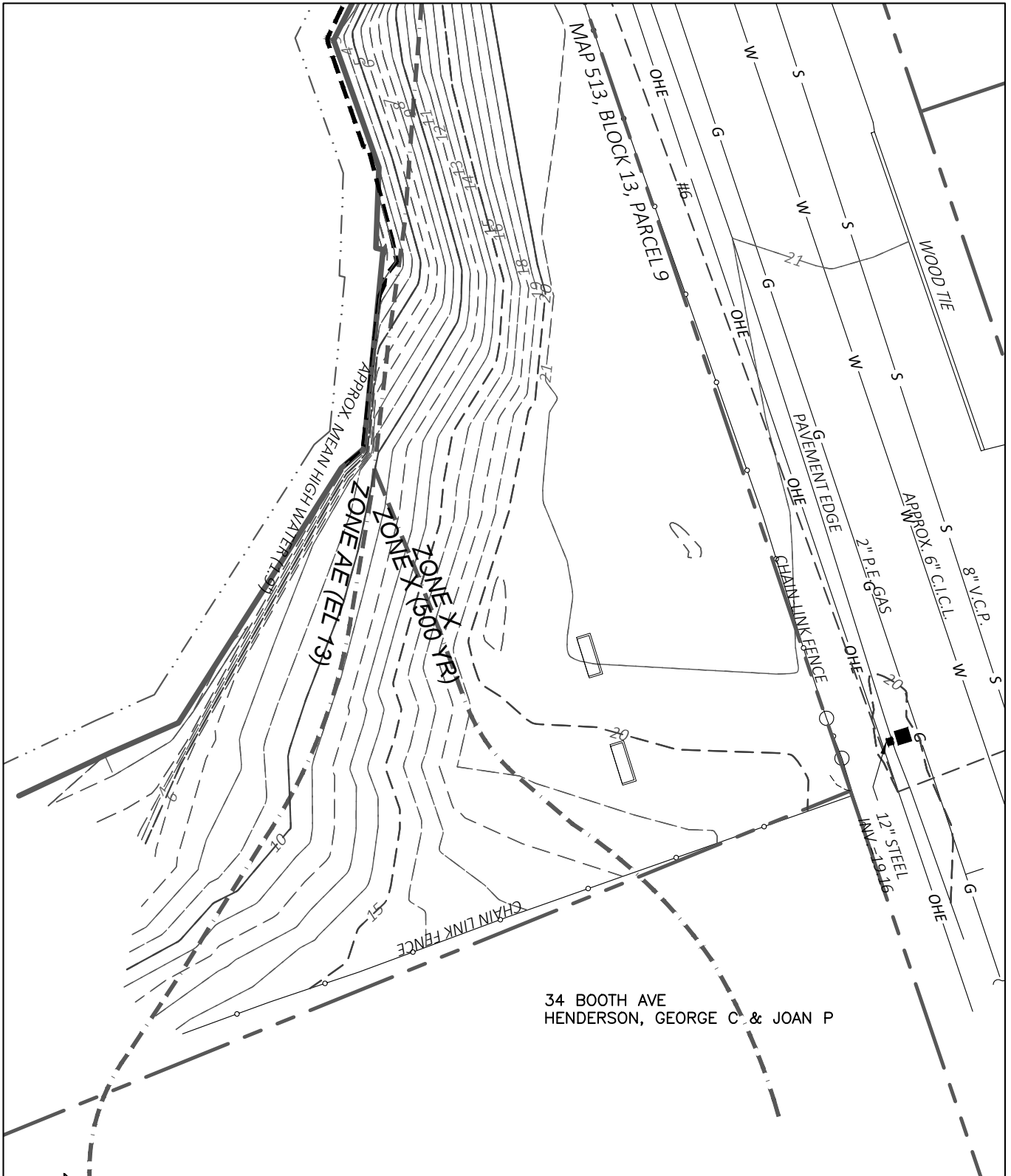
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APPROVED BY: D. HOPKINS	REFERENCE DWG: TEXT HERE	FIGURE:	

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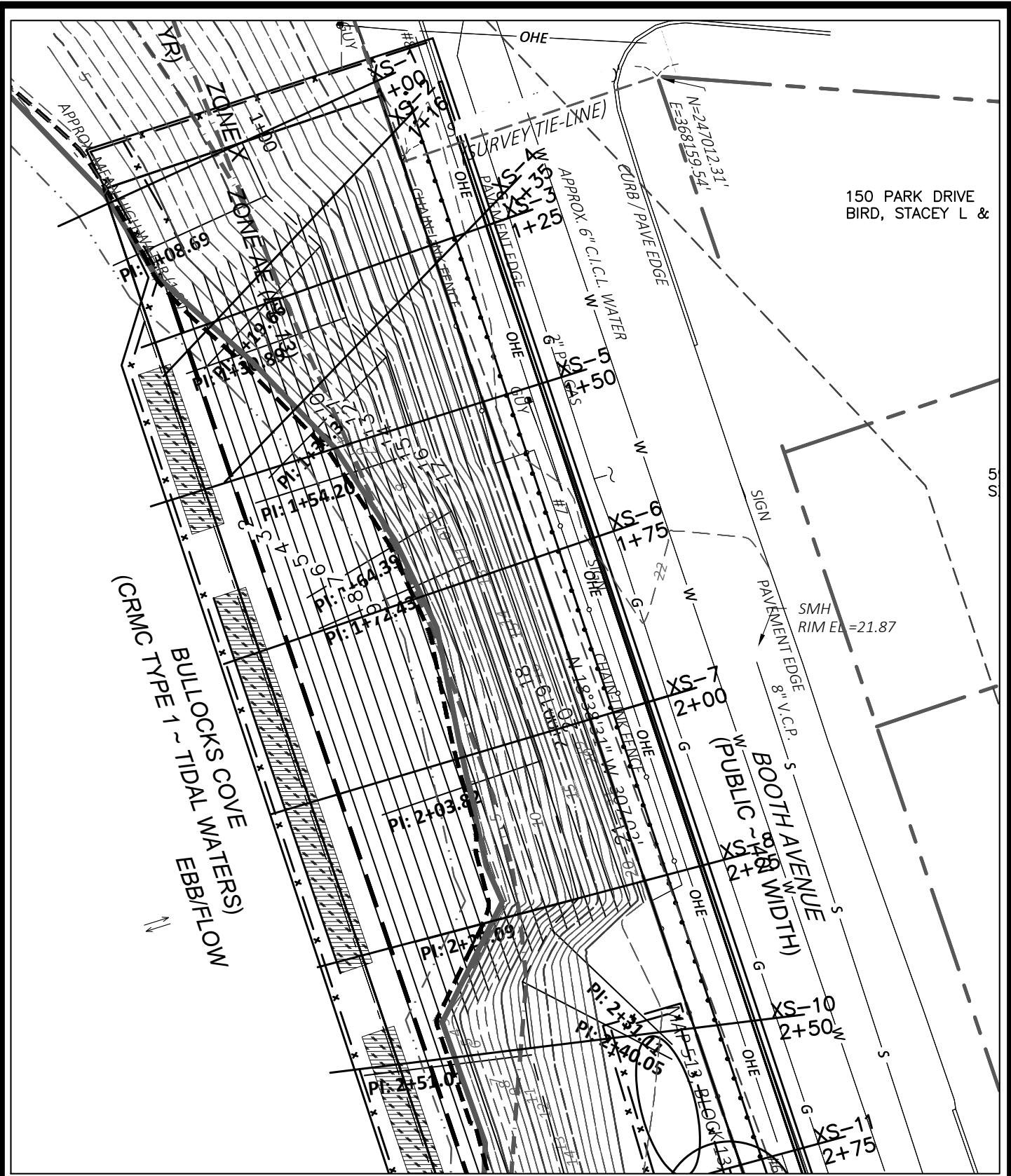


34 BOOTH AVE
 HENDERSON, GEORGE C. & JOAN P

NO.	REVISIONS		
1			
DRAWN BY: E. DAVIS	DATE: 06-20-2023	PROJ NO: 13981	
APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:	

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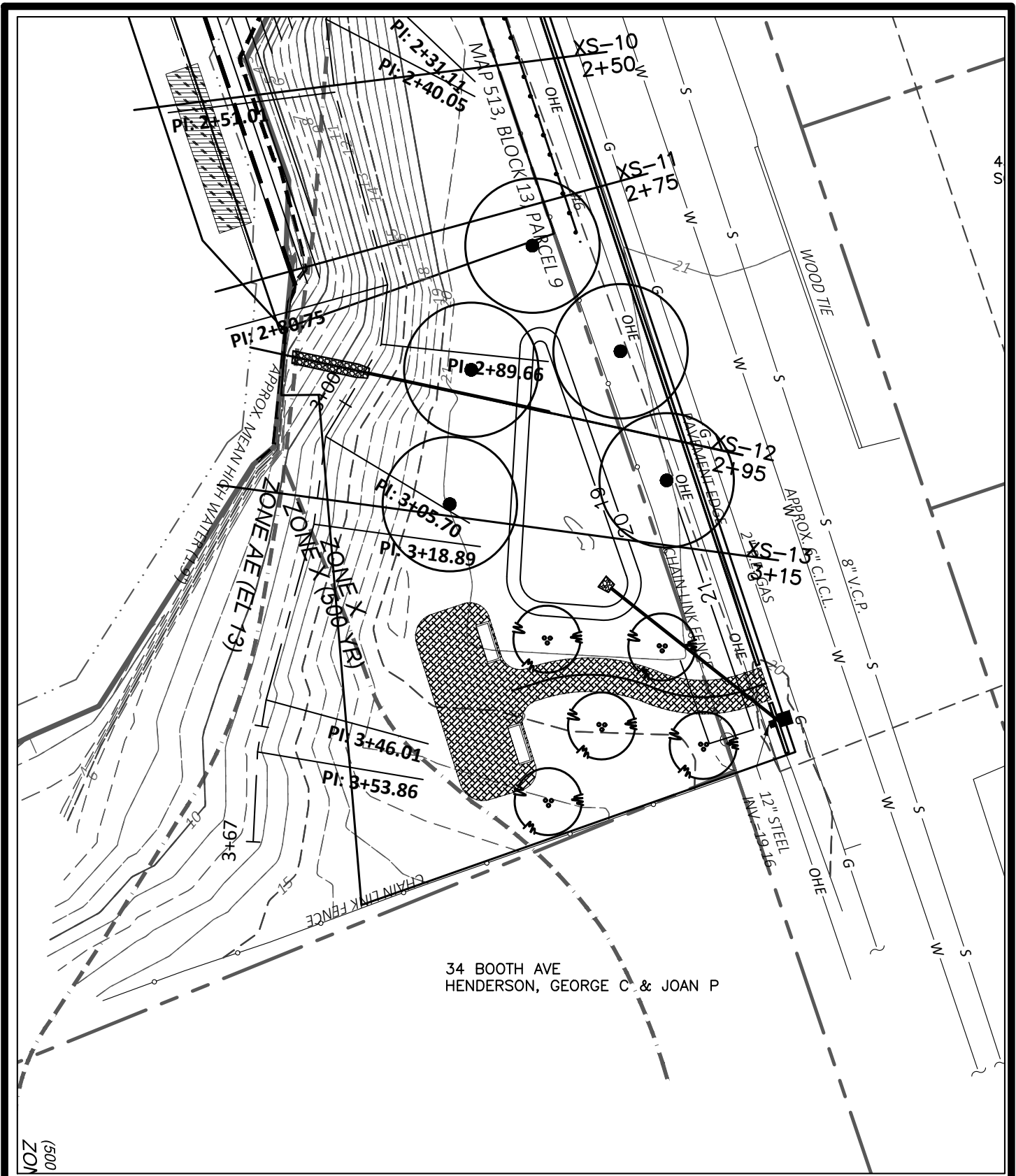
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APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:	

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DR-1
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MANAGEMENT COUNCIL



34 BOOTH AVE
 HENDERSON, GEORGE C. & JOAN P

ZON
 (500
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NO.	REVISIONS		
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APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:	



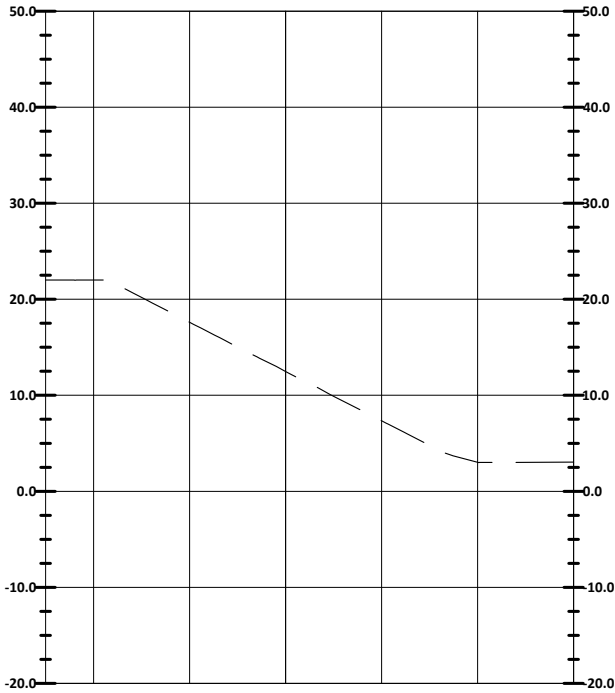
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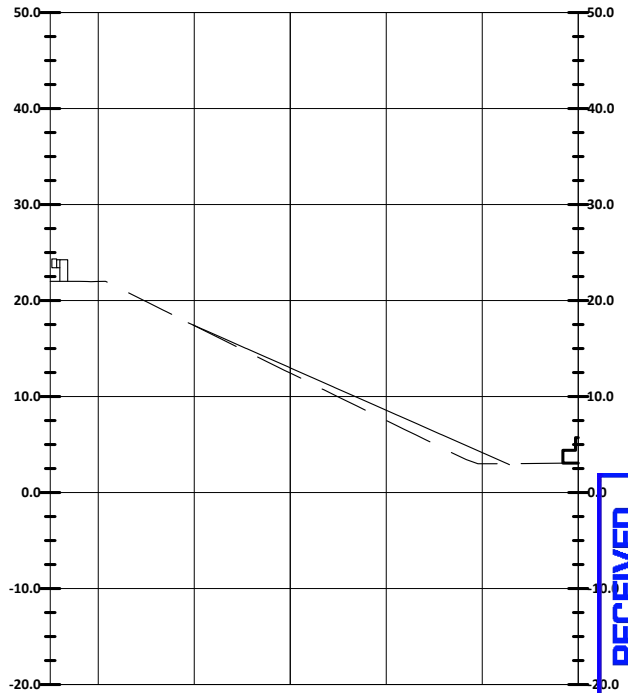
6/23/2023

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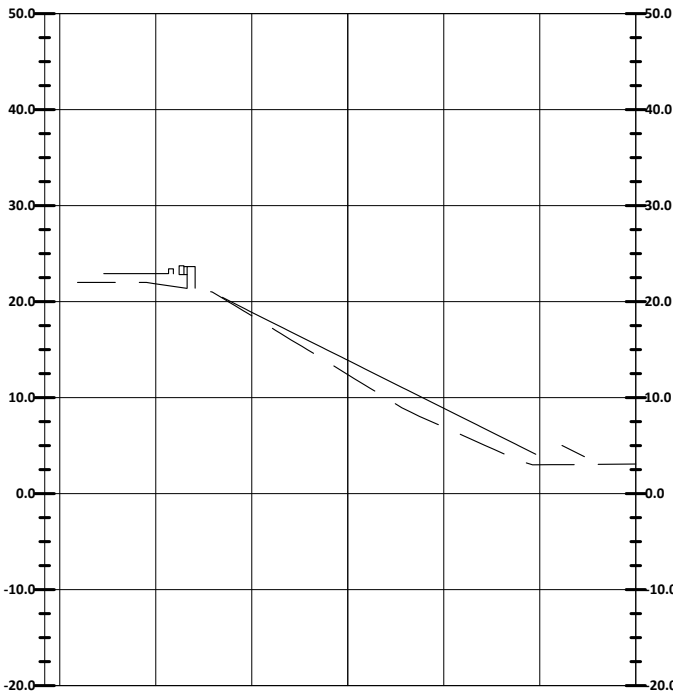


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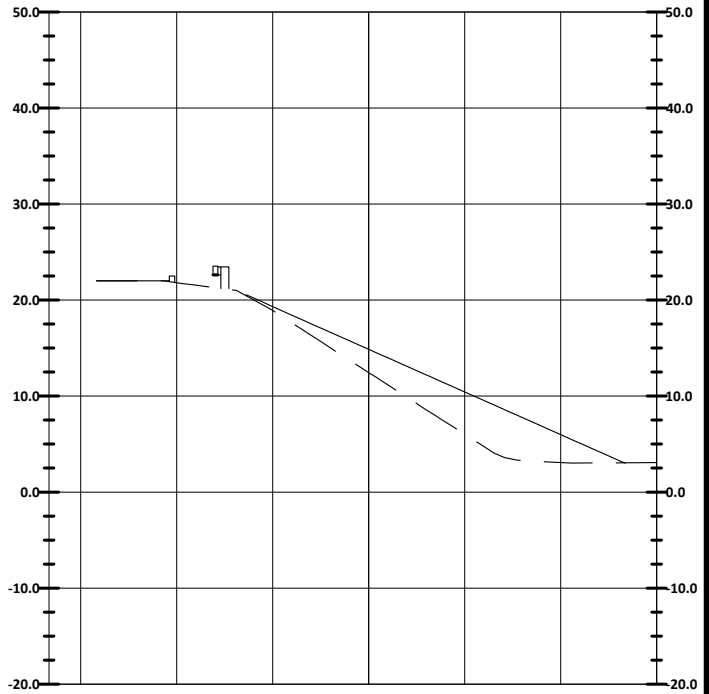


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1+25.00



1+35.00

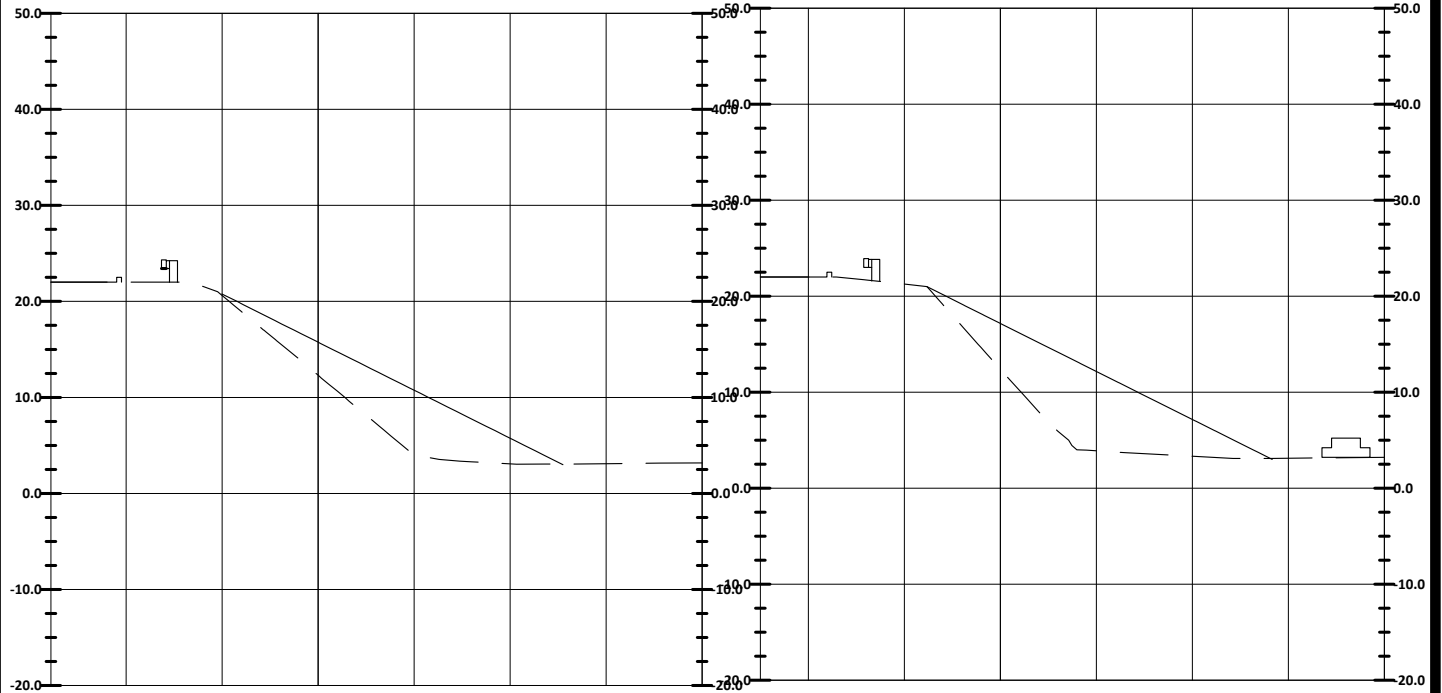


NO.	REVISIONS		
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DRAWN BY: E. DAVIS		DATE: 06-20-2023	PROJ NO: 13981
APPROVED BY: D. HOPKINS		REFERENCE DWG:	FIGURE: CS-1



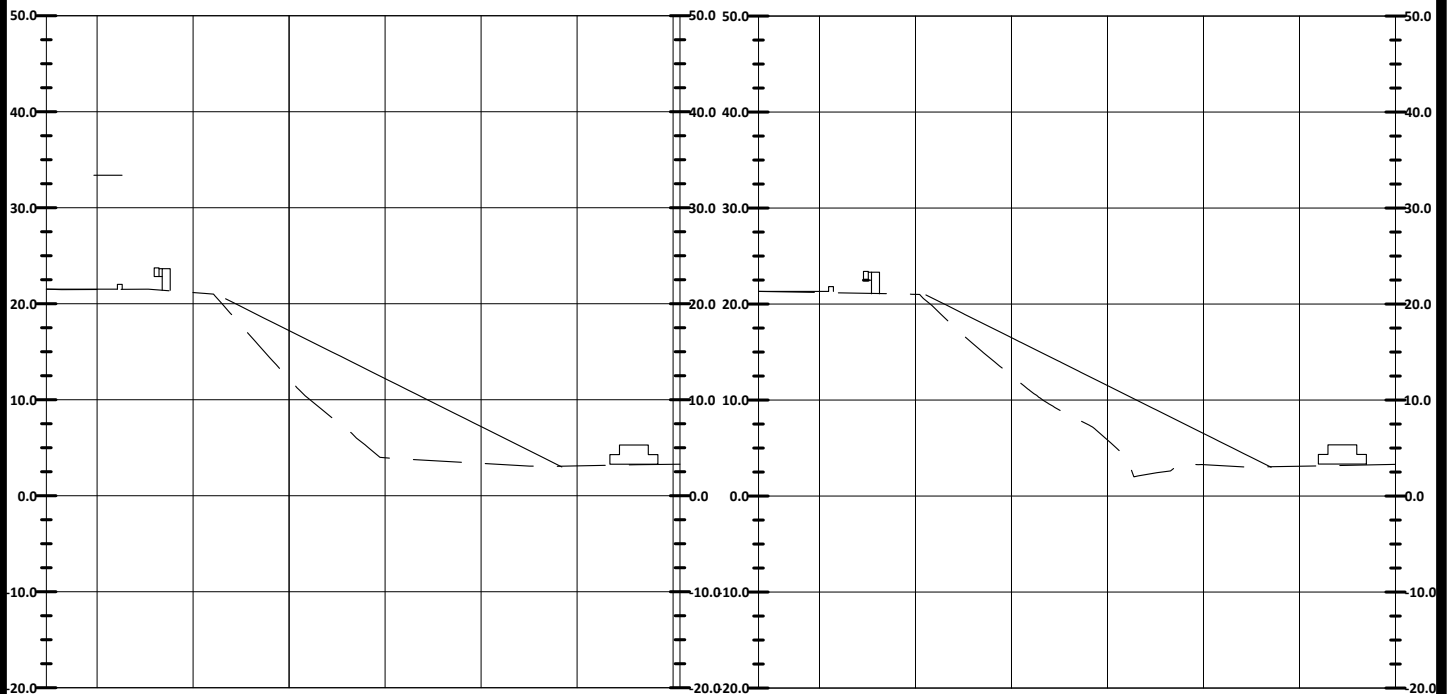
1+50.00

1+75.00



2+00.00

2+25.00



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1			
DRAWN BY: E. DAVIS		DATE: 06-20-2023	PROJ NO: 13981
APPROVED BY: D. HOPKINS		REFERENCE DWG:	FIGURE:



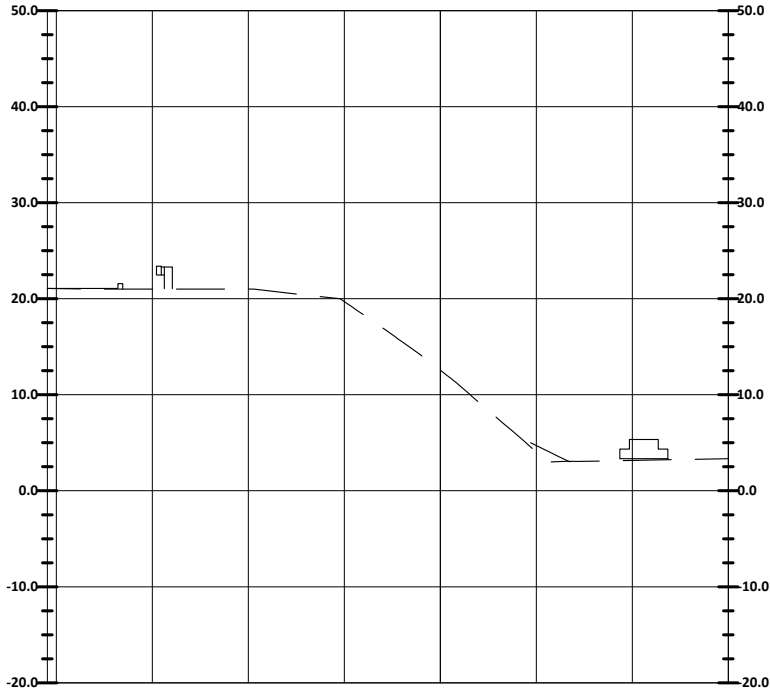
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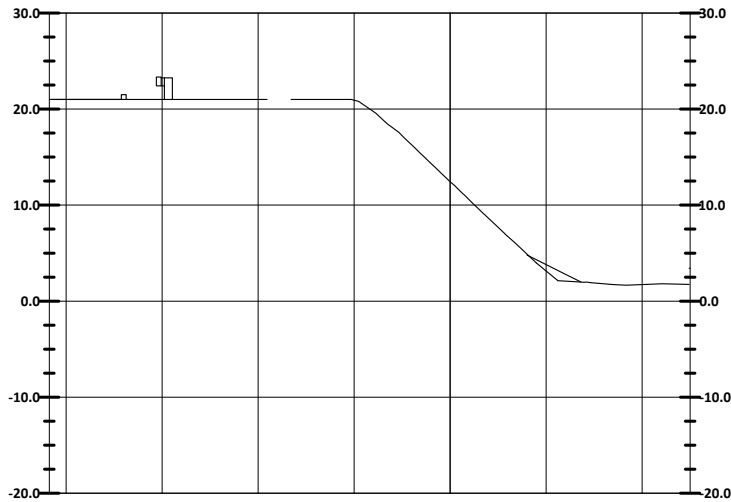
6/23/2023

COASTAL RESOURCES
MANAGEMENT COUNCIL

2+50.00



2+75.00



NO.

REVISIONS

1

DRAWN BY: E. DAVIS

DATE: 06-20-2023

PROJ NO: 13981

APPROVED BY: D. HOPKINS

REFERENCE DWG:

FIGURE:

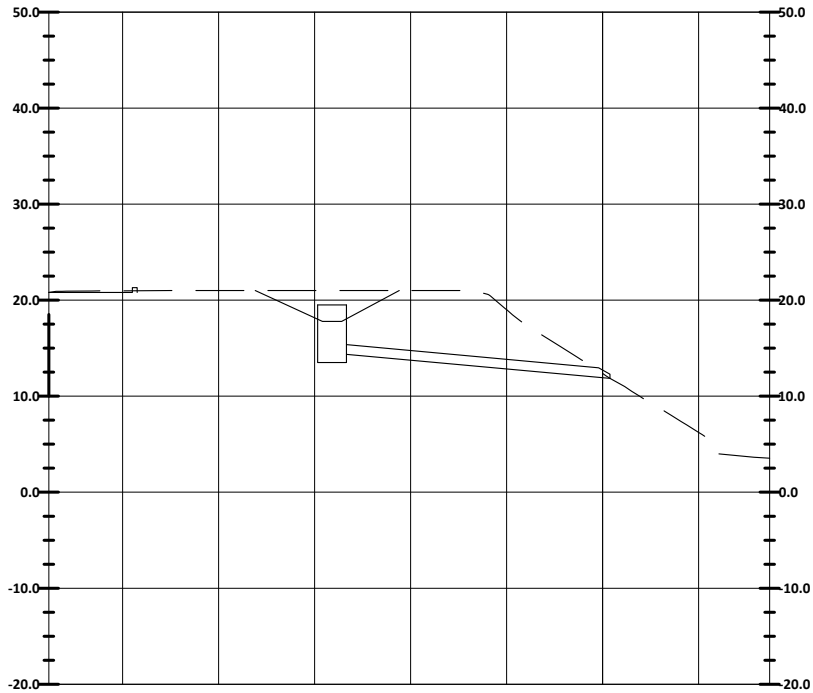
WRIGHT-PIERCE 

RECEIVED
6/23/2023

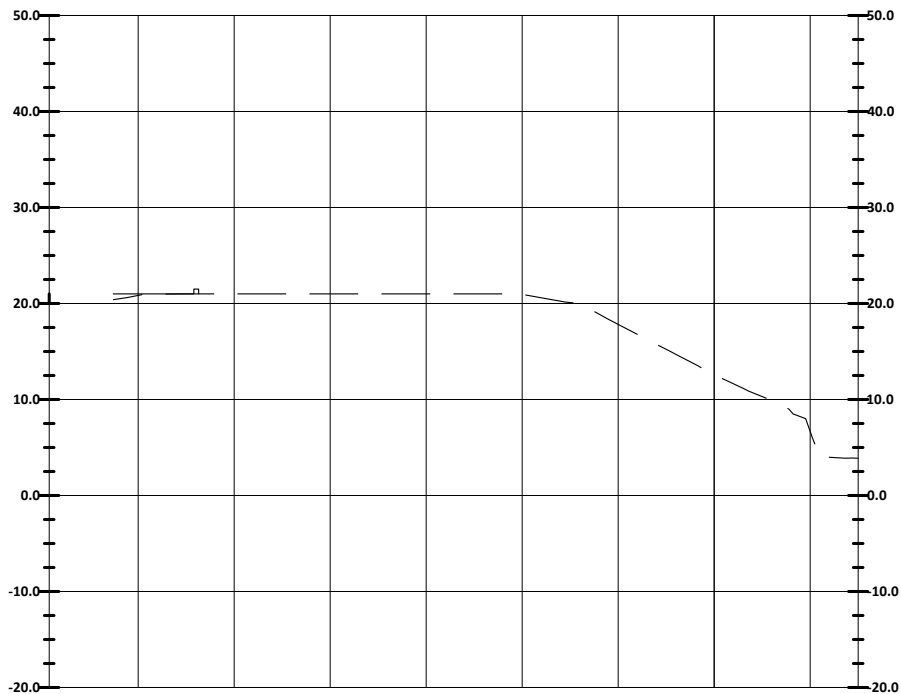
CS-3

**COASTAL RESOURCES
MANAGEMENT COUNCIL**

2+94.55



3+15.00



NO.	REVISIONS		
1			
DRAWN BY: E. DAVIS	DATE: 06-20-2023	PROJ NO: 13981	
APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:	



Appendix G
Water Quality Certification from RIDEM





RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
235 Promenade Street, Providence, Rhode Island 02908-5767

May 15, 2023

City of East Providence
c/o Dan Borges
145 Taunton Avenue
East Providence, RI 02914

RE: Water Quality Certification (WQC): Slope Stabilization
Booth Avenue, Assessor's Plat 513, Lot 13-9, East Providence
WQC/STW File No. 23-025

Dear Mr. Borges:

The Rhode Island Department of Environmental Management Office of Water Resources (RIDEM OWR) has reviewed the above-referenced project for compliance with the State Water Quality Regulations (WQR) (250-RICR-150-05-1) for Water Quality Certification (WQC) approval. The purpose of the project is to perform slope stabilization and restoration. Work will consist of new fill being deposited below Mean High Water (MHW) in order to achieve the proposed slope, which was determined based on historical photographs of the site. Interlocking concrete blocks will be placed at the base of the restored slope to provide further erosion protection and create additional habitat for marine life. Approximately 220 cubic yards (CY) of fill will be deposited below MHW, as further described in the application materials and site plans consisting of 7 sheets as prepared by Wright-Pierce, dated December 9, 2022, and received by RIDEM OWR on February 13, 2023. The State water associated with this project is Bullocks Cove, Class SB.

It has been determined that the above-referenced application is compliant with the requirements of the RI State WQR, provided that the Applicant complies with the above-referenced application materials and the following conditions:

- 1) You must notify the WQC program contact person identified below of the anticipated date of construction and your contractor's contact information, prior to any site disturbance.
- 2) Prior to construction, proper erosion and sedimentation and turbidity controls/procedures, as identified in the above-referenced plans, are installed and maintained in functional condition for the duration of the construction project.
- 3) Prior to construction, you must erect or post a sign resistant to the weather and at least twelve (12) inches wide and eighteen (18) inches long, which identifies the initials "DEM" and the application number(s) assigned to this project. The sign must be posted in a conspicuous location near the site access and maintained until the project is complete.
- 4) All fill material shall be clean and free of matter that could cause pollution of the waters of the State.

Telephone 401.222.6820 | www.dem.ri.gov/wqc | Rhode Island Relay 711



- 5) No sewage, refuse, or waste of any kind shall be discharged into waters of the State from activities associated with the proposed project. Any release of materials from the site associated with the project during the construction period will require immediate notification to the WQC program.
- 6) A copy of this WQC must be kept at the site at all times during site preparation, construction, and final stabilization. Copies of this WQC must be made available for review by any RIDEM or City/Town representative upon request.
- 7) Any alterations, additions, or modifications to the project design plans from that approved herein must first be reviewed and approved by WQC program.
- 8) You must notify the WQC contact person identified below upon completion of the project.
- 9) This WQC shall expire on May 15, 2026. Project construction is to be completed by this date. You are required to submit a request for any modification(s) and/or extension(s).
- 10) This WQC does not relieve your obligation to obtain and adhere to any other applicable local, state and federal permits prior to commencing construction. Should any stipulation/condition identified within any other applicable permit be in conflict with the conditions set forth in this WQC, the applicant shall notify the WQC program immediately.

You are required to adhere to all above Terms and Conditions and carry out this project in compliance with the State WQR at all times. Issuance of this certificate does not bar the RIDEM, nor any of its various Divisions, from initiating any investigation and/or enforcement actions that it may deem necessary for violations of this certificate or of any and all applicable statutes, regulations and/or permits.

This is the State's Water Quality Certification, which shall have the full force and effect of a permit issued by the Director. Violation of the Terms and Conditions of this Certification may result in violation of the State's WQR and appropriate enforcement action.

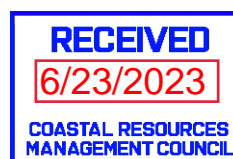
Should you have any questions or require additional information, you may contact me or Michael Arguello at Michael.Arguello@dem.ri.gov or (401)222-6820 ext 277-7602, or myself as indicated below.

Sincerely,

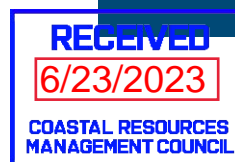


Neal Personeus, Principal Environmental Scientist
neal.personeus@dem.ri.gov, 401-222-6820 ext 277-7610
Federal 401/State WQC Program; GWD/UIC Program
Office of Water Resources

cc: Charles Horbert, Deputy Administrator, Groundwater & Freshwater Wetlands Protection
Tom Simbro, PE, Wright-Price
Rich Lucia, CRMC

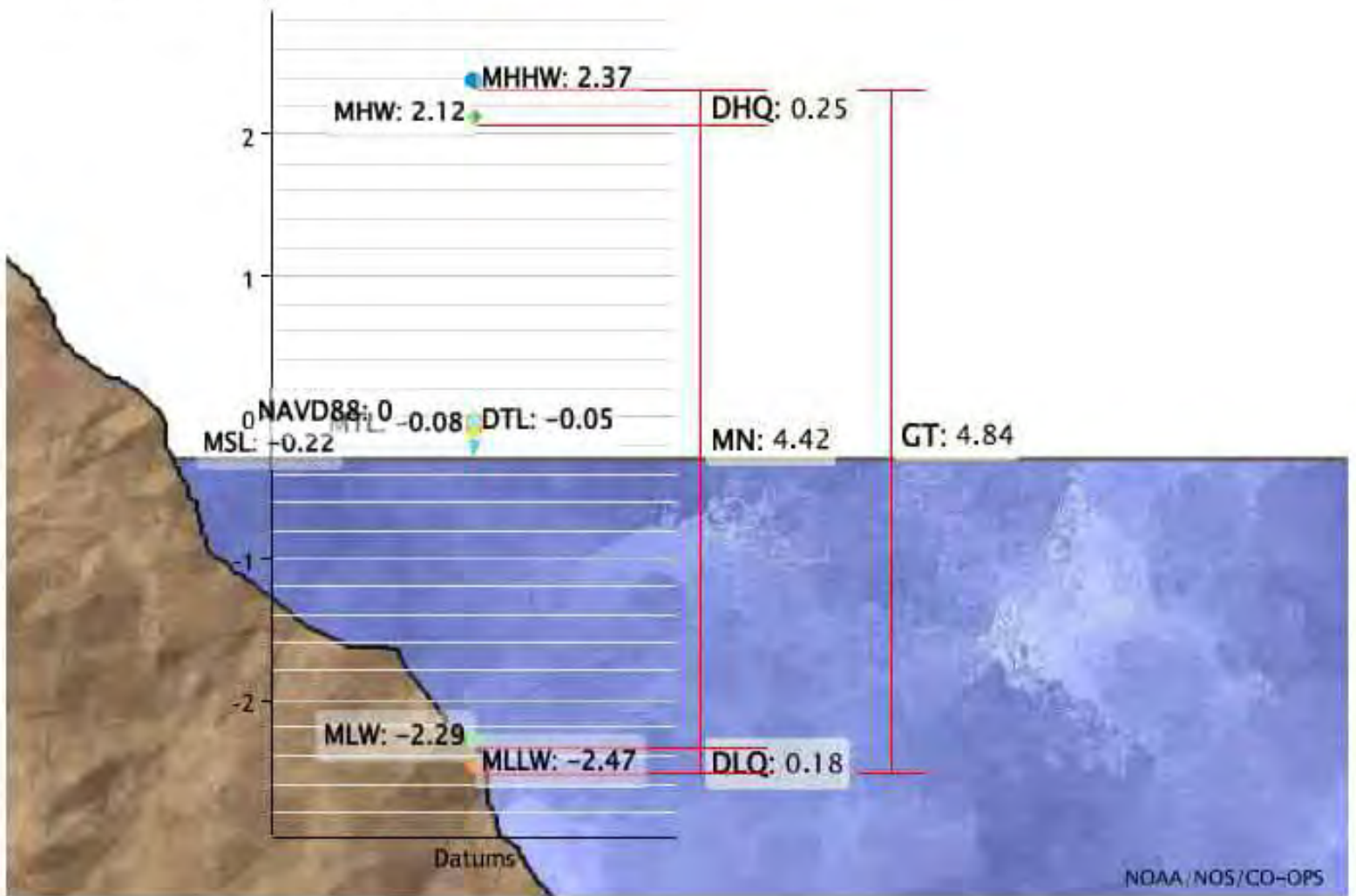


Appendix H
NOAA Datum Conversions



Datums for 8454000, Providence, RI

All figures in feet relative to NAVD88



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6/23/2023
COASTAL RESOURCES
MANAGEMENT COUNCIL

Appendix I
Proof of Ownership





City of East Providence Assessment Division

145 TAUNTON AVENUE

EAST PROVIDENCE, RHODE ISLAND 02914-4505

PHONE (401) 435-7574 EMAIL assessor@eastprovidenceri.gov

Roberto L. DaSilva
Mayor

Sarah Fretw
Tax Assessor

Proof of Ownership Form

Date: May 31, 2023

TO WHOM IT MAY CONCERN:

According to our records, as of December 31, 2022 the property located at 0 Booth Avenue
is owned by: City of East Providence Parks The property is also known as

Map: 513 13 009-00

Land: \$ 17,800

Building:

Total: \$ 17,800

Legal use questions should be referred to the Building Inspector's Office at 435-7722.

Current, and past, tax bill questions should be referred to the Treasury Division at 435-7544.

Signed: 

ASSESSMENT DIVISION

MAY 31 2023

CITY OF EAST PROVIDENCE

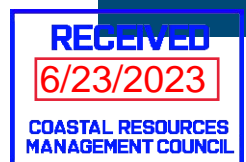
50% preconsumer content 10% postconsumer content

PRINTED ON RECYCLED PAPER

PHONE: (401) 435-7574

RECEIVED
6/23/2023
COASTAL RESOURCES
MANAGEMENT COUNCIL

Appendix J
Contact Information



Contact Information

Person who will be able to answer questions regarding this application and who should be contacted by CRMC regarding monitoring and permit compliance questions during construction:

Derick Hopkins

derick.hopkins@wright-pierce.com

(401) 808-8303

Owners of Abutting Properties:

Abutting Property Address	Owner(s)	Owner's Address
0 Mildred Ave	City of E Providence Green Acres	145 Taunton Ave E Providence, RI 02914
40 Booth Ave	Rebecca L. Rattey	40 Booth Ave Riverside, RI 02915
153 Park Dr	Nicole Cardavelli Rosa Cardavelli George D. Cardavelli	153 Park Dr Riverside, RI 02915
0 Booth Ave	City of E Providence- Parks	145 Taunton Ave E Providence, RI 02914
140 Oak Crest Dr	Christine D. Wisher	140 Oak Crest Dr Riverside, RI 02915
144 Oak Crest Dr	Frank Borges Linda A. Borges	144 Oak Crest Dr Riverside, RI 02915
148 Oak Crest Dr	Mark S. Anter Joanne F. Anter	148 Oak Crest Dr Riverside, RI 02915
152 Oak Crest Dr	Richard N. Packhem Threasa Packhem	152 Oak Crest Dr Riverside, RI 02915
0 ZZ Railroad Site	State of Rhode Island Dept of Transportation	Two Capital Hill Providence, RI 02903



The Westminster Building
10 Dorrance St, Ste 840
Providence, RI 02903
401.383.2276 | wright-pierce.com

tom.simbro@wright-pierce.com



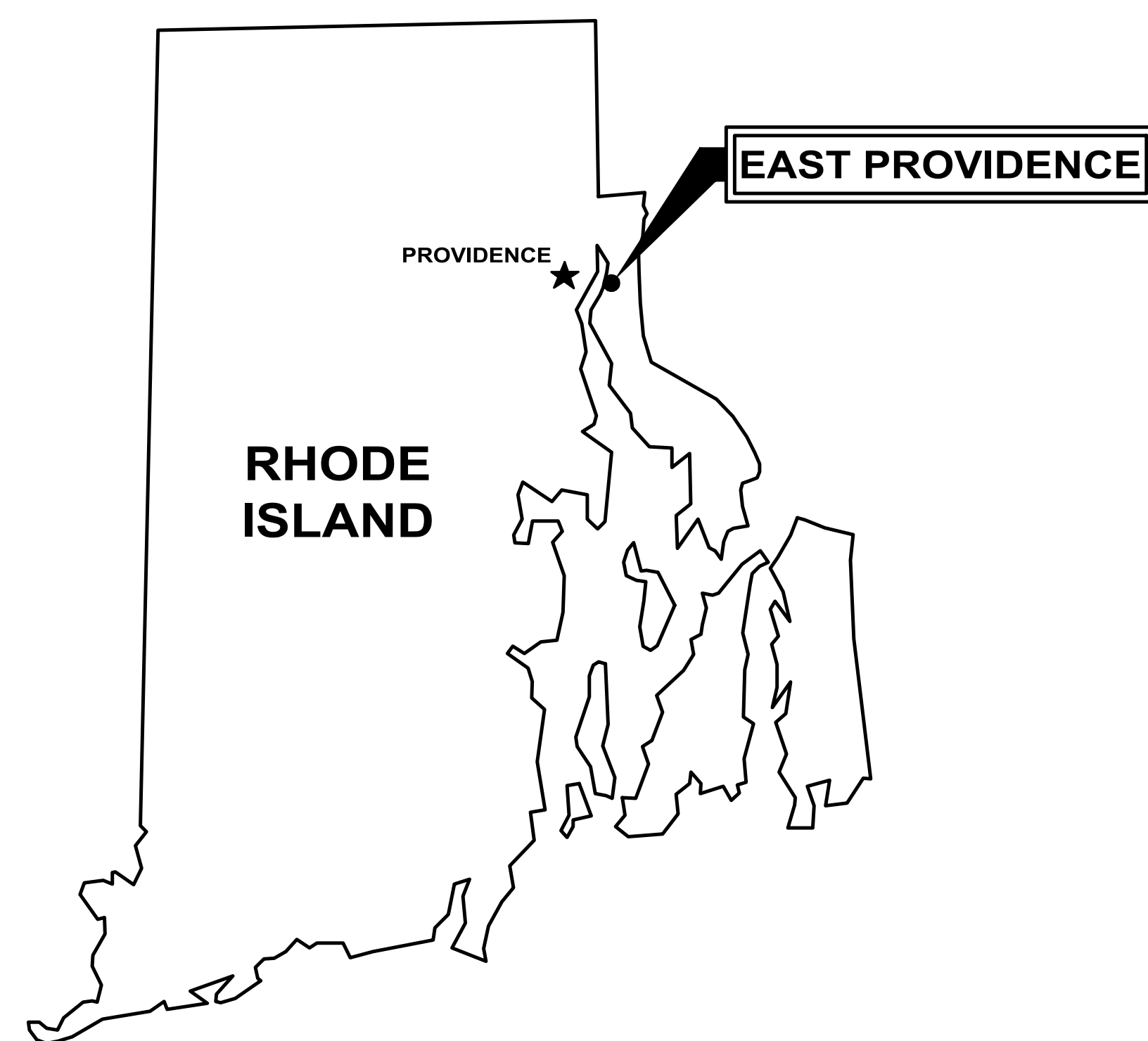
CITY OF EAST PROVIDENCE, RHODE ISLAND

CONTRACT DRAWINGS FOR

BOOTH AVENUE SLOPE STABILIZATION

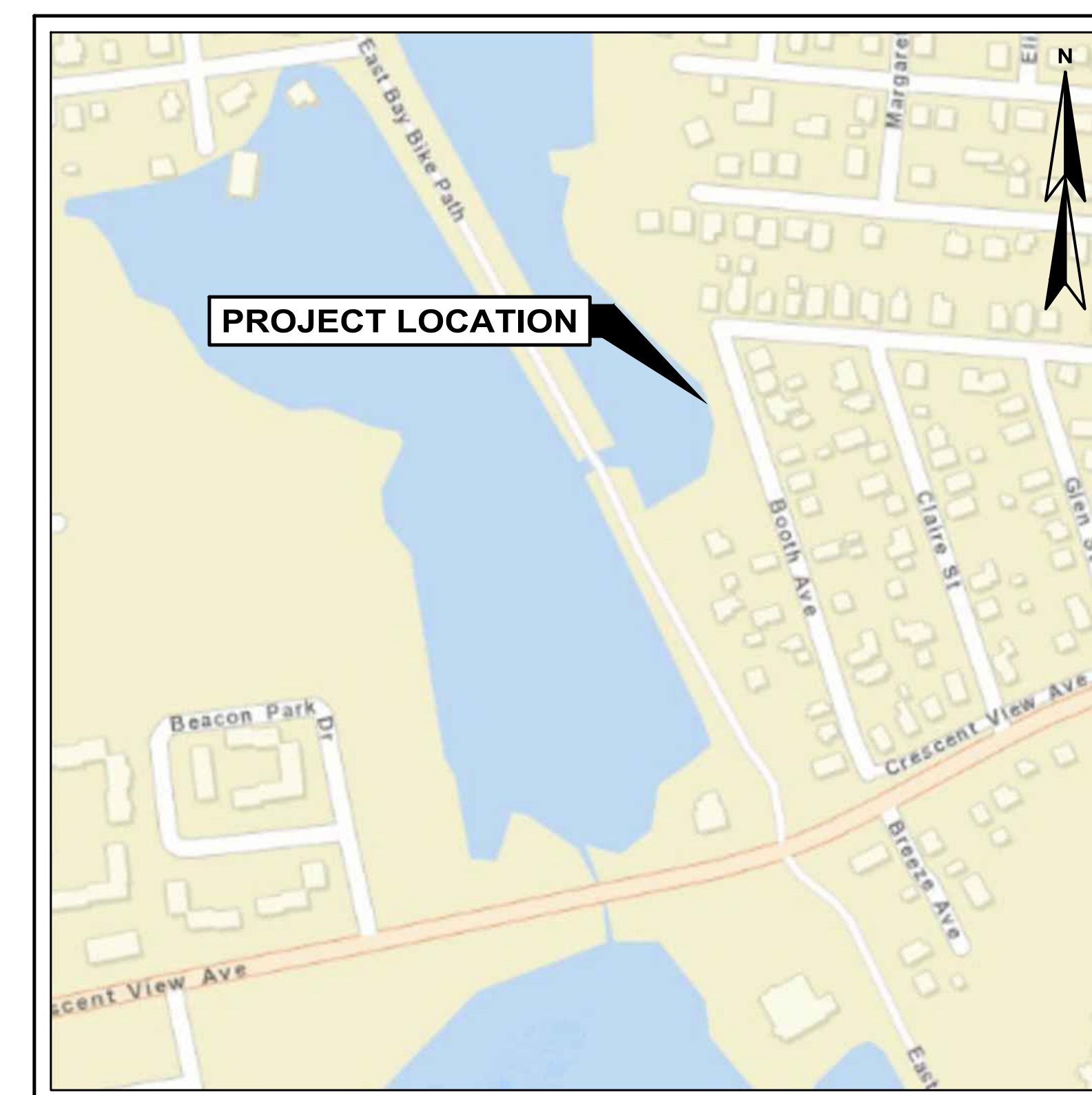
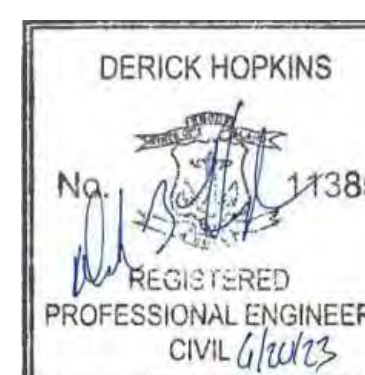
JUNE 2023

RICRMC PERMIT SUBMISSION



DRAWING INDEX

GENERAL	
---	COVER SHEET
CIVIL	
C-1	GENERAL NOTES, LEGEND, ABBREVIATIONS
C-2	SITE PLAN AND PROFILE
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C-6	LANDSCAPE PLAN
C-7	EROSION CONTROL NOTES AND DETAILS



LOCATION PLAN
SCALE: NTS

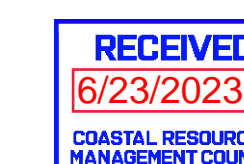


888.621.8156 | www.wright-pierce.com

FOR REVIEW June 2023

FOR BIDDING _____

WP PROJECT No. 13981



GENERAL NOTES

- 1. THE CITY OF EAST PROVIDENCE WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE CITY OF EAST PROVIDENCE. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CITY OF EAST PROVIDENCE SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE CITY OF EAST PROVIDENCE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS OF WAY AND EASEMENTS ARE AVAILABLE FOR REVIEW FROM THE CITY OF EAST PROVIDENCE.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH THE MUTCD AND ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUBMIT AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION. THE POLICE DEPARTMENT AND FIRE DEPARTMENT ARE TO BE NOTIFIED AT LEAST 24-HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR. REFER TO SPECIFICATION SECTION 01570.
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
5. CONTRACTOR SHALL COMPLY WITH THE COORDINATION REQUIREMENTS AND RELATED COSTS, IF ANY, AS SPECIFIED IN SPECIFICATION SECTION 01050.
6. CONTRACTOR SHALL NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.
7. ALL EXISTING SEWER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. ANY EXISTING SEWERS, STORM DRAIN LINES OR CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF EAST PROVIDENCE, EXCEPT WHEN IN DIRECT CONFLICT WITH THE NEW WORK OR WHEN NOT SHOWN OR INDICATED.
8. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE EXCAVATION IS BACKFILLED. INJURY TO ANY SUCH STRUCTURES 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.
9. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE TO THE RESPECTIVE UTILITY POLE OWNER. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
10. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER FOR REVIEW FOR CONFORMANCE WITH THE PLANS. TEST PITS ARE REQUIRED WHERE SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER. TEST PITS WILL BE DUG AT LEAST 10 CALENDAR DAYS PRIOR TO CONNECTING PROPOSED SEWERS TO EXISTING SEWERS.

EXISTING SITE CONDITIONS

THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN, OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED.

- 11. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. TEST PITS, MAY BE REQUIRED. UTILITY CONTACTS ARE AS FOLLOWS:

Table with utility contact information including ELECTRIC (RI ENERGY, 280 MELROSE STREET, PROVIDENCE RI 02907), WATER/SEWER/DRAIN (CITY OF EAST PROVIDENCE PUBLIC WORKS, 60 COMMERCIAL WAY, EAST PROVIDENCE, RI), TELEPHONE (VERIZON NEW ENGLAND, 6 BOWDOIN SQUIRE, BOSTON, MA 02114), DIG SAFE (DIG SAFE SYSTEM, INC., 11 UPTON DRIVE, WILMINGTON, MA 0188), and GAS (RI ENERGY, 280 MELROSE STREET, PROVIDENCE, RI).

- 12. THERE ARE NO KNOWN HAZARDOUS ENVIRONMENTAL CONDITIONS WITHIN THE AREA OF WORK. REFER TO SPECIFICATION SECTION 00800-SC-5.306. IF THE PRESENCE OF HAZARDOUS ENVIRONMENTAL CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE CITY OF EAST PROVIDENCE AND THE ENGINEER IMMEDIATELY. ALL ACTIVITIES, HANDLING AND DISPOSAL OF HAZARDOUS ENVIRONMENTAL CONDITIONS AND MATERIALS SHALL BE IN ACCORDANCE WITH OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.

SITE DEMOLITION

- 1. REFER TO THE EXISTING SITE PLAN, FOR ADDITIONAL INFORMATION REGARDING EXISTING SITE. REFER TO THE LAYOUT DRAWING FOR LIMITS OF WORK.
2. REFER TO SPECIFICATION SECTION 01010B, WHICH CONTAINS INFORMATION ON CONSTRAINTS OF CONSTRUCTION SEQUENCING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE CITY OF EAST PROVIDENCE RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING, EQUIPMENT AND MATERIALS DESIGNATED FOR DEMOLITION. SUCH MATERIALS TO BE RETAINED SHALL BE PROPERLY STORED IN AN ON-SITE LOCATION. COORDINATE LOCATION AND MATERIALS TO BE SALVAGED WITH THE TOWN OF CITY OF EAST PROVIDENCE/ENGINEER. REFER TO SPECIFICATION SECTION 02050A
4. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AS PART OF THE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01720.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND GROUNDWATER DEWATERING OPERATIONS.

SITE CLEARING, GRUBBING AND GRADING

- 1. STRIPPING OF TOPSOIL (LOAM) SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02115. REFER TO THE LAYOUT AND GRADING DRAWINGS FOR LIMIT OF WORK AND STRIPPING.
2. CONTRACTOR SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02110. CLEARING LIMITS SHALL BE AS INDICATED ON THE DRAWINGS, BUT AT ALL TIMES WITHIN EXISTING ROAD RIGHTS OF WAY AND PROPERTY LINES. ALL CLEARING AND GRUBBING MATERIAL SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS.
3. CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL AND DRAINAGE MEASURES IN ALL AREAS OF WORK, AND CONFINE SOIL SEDIMENT TO WITHIN THE LIMITS OF EXCAVATION AND GRADING. PRIOR TO BEGINNING EXCAVATION WORK, EROSION CONTROL FENCE SHALL BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE ACTUAL LIMITS OF GRUBBING AND/OR GRADING, AND AS SHOWN ON THE DRAWINGS. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL INSTALL AN TURBIDITY CURTAIN, IN THE WATER, AT THE BASE OF ANY DISTURBED SLOPES. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM, CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES. EROSION CONTROL FENCE SHALL ALSO BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION. ALL INSTALLED EROSION CONTROL FACILITIES SHALL BE REMOVED AT THE END OF THE PROJECT. REFER TO SPECIFICATION SECTION 02270.
4. BORING LOGS FOR THE PROJECT SITE ARE INCLUDED IN APPENDIX A OF THE SPECIFICATIONS. THESE ARE PROVIDED FOR INFORMATION PURPOSES ONLY. PLEASE NOTE THAT THE SOIL DESCRIPTIONS PROVIDED ON THE BORING LOGS DO NOT REPRESENT FIELD CONDITIONS OTHER THAN AT THE SPECIFIC TEST BORING LOCATION. THE CONDITIONS BETWEEN BORING LOCATIONS MAY VARY FROM THOSE SHOWN ON THE TEST BORING LOGS.
5. CONTRACTOR SHALL CONTROL DUST ON THE CONSTRUCTION SITE TO A REASONABLE LIMIT, AS DETERMINED BY THE ENGINEER, AND AS OUTLINED IN SPECIFICATION SECTION 01562.
6. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS AND PLANT DRIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
7. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SUITABLE EXCAVATED MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH EXCESS MATERIAL DISPOSED OF AT A LOCATION PROVIDED BY THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY CONSTRUCTION ACTIVITIES TO AT

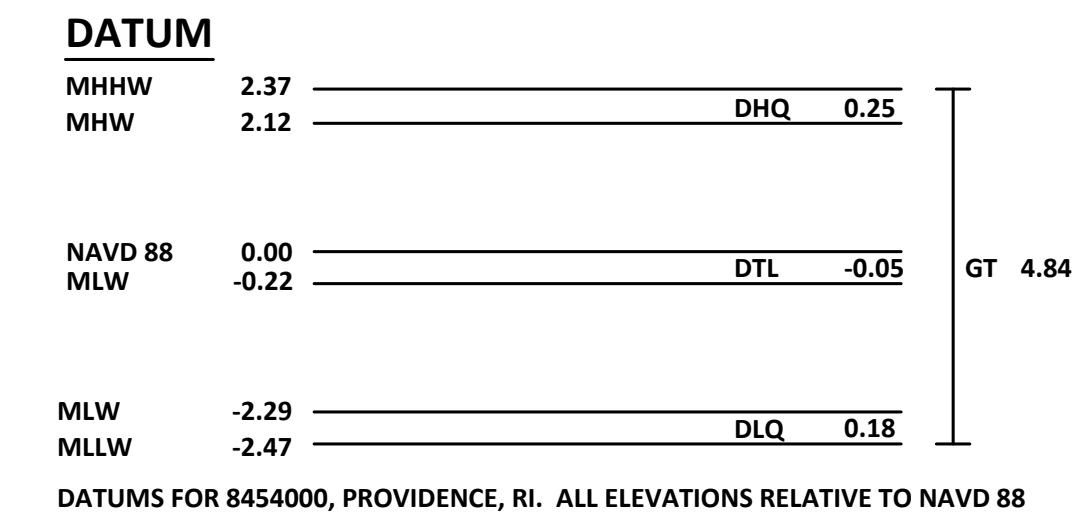
- LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE CITY OF EAST PROVIDENCE AND ENGINEER.
9. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
10. ALL NON-ROADWAY AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4-INCHES OF SOIL SHALL BE LOAM. REFER TO SPECIFICATION SECTION 02485, LANDSCAPING/LOAM AND SEED.

CIVIL SITE LAYOUT

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
2. REFER TO CIVIL PLAN SHEETS FOR ADDITIONAL LAYOUT INFORMATION.
3. THE LOCATIONS AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE CITY OF EAST PROVIDENCE AND ENGINEER. THE CONTRACTOR SHALL LIMIT ACTIVITIES TO THESE AREAS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTLE ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OR RHODE ISLAND AT NO ADDITIONAL COST TO THE CITY OF EAST PROVIDENCE.
5. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
6. ALL ELEVATIONS REFER TO THE NAVD88 DATUM. ORIENTATION IS GRID NORTH ON THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM. CONTRACTOR SHALL VERIFY ELEVATIONS PRIOR TO USING IN CONSTRUCTION.
7. EXISTING CONDITIONS SITE PLAN DEVELOPED FROM SURVEY PERFORMED BY WATERMAN ENGINEERING COMPANY, DATED 09/18/2018, AND EXISTING RECORD DRAWING INFORMATION. ELEVATIONS AND LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD

CIVIL SITE PIPING

- 1. ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4- FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED (SOLID SLEEVE). REFER TO SPECIFICATION SECTION 02655.
2. MANHOLES ARE 4- FEET IN DIAMETER UNLESS OTHERWISE NOTED. THE TOP OF MANHOLE FRAMES SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE NOTED ON DRAWINGS. SEWER MANHOLE INVERTS SHOWN ON THE DRAWINGS ARE TO THE INSIDE FACE OF THE MANHOLE.
3. CONTRACTOR SHALL RE-SHAPE INVERTS AS REQUIRED WHEN CONNECTING INTO EXISTING MANHOLES.
4. REFER TO SPECIFICATION SECTION 02200 FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
5. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE-YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
6. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE CIVIL EXISTING CONDITIONS AND DEMOLITION PLAN. ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF EAST PROVIDENCE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS IN ACCORDANCE WITH SPECIFICATION SECTION 02050.



DATUMS FOR 8454000, PROVIDENCE, RI. ALL ELEVATIONS RELATIVE TO NAVD 88

CIVIL ABBREVIATIONS

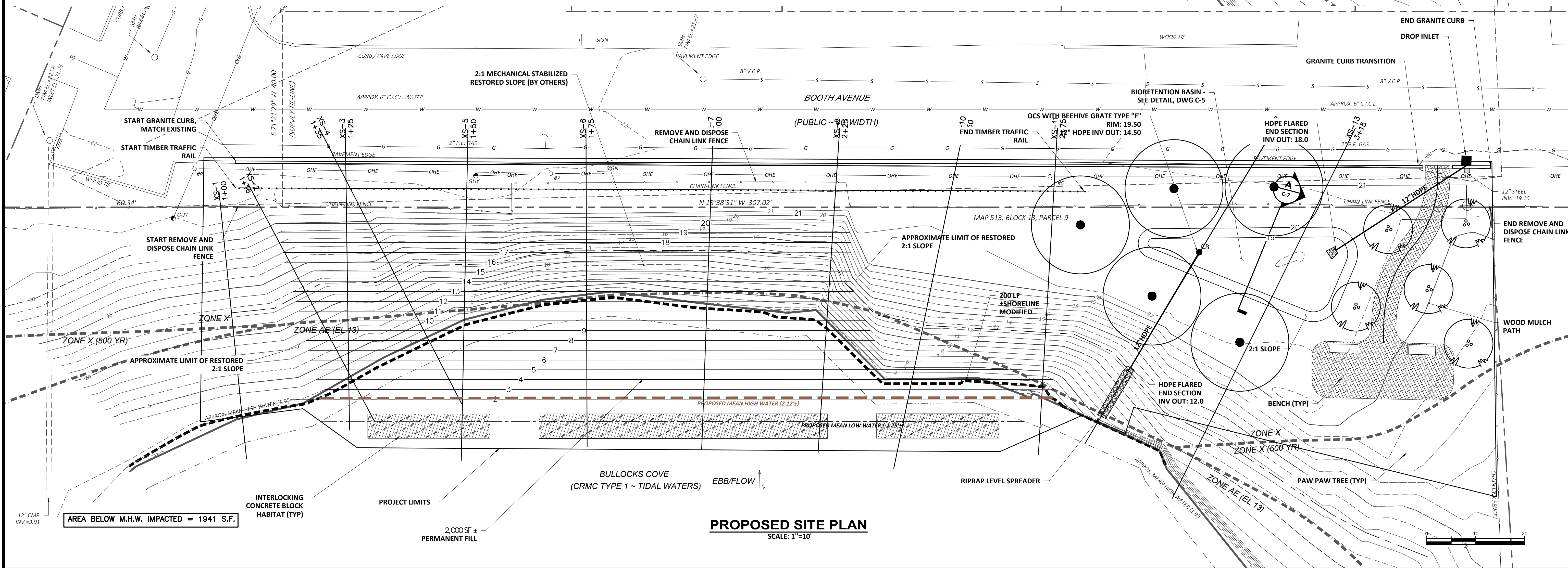
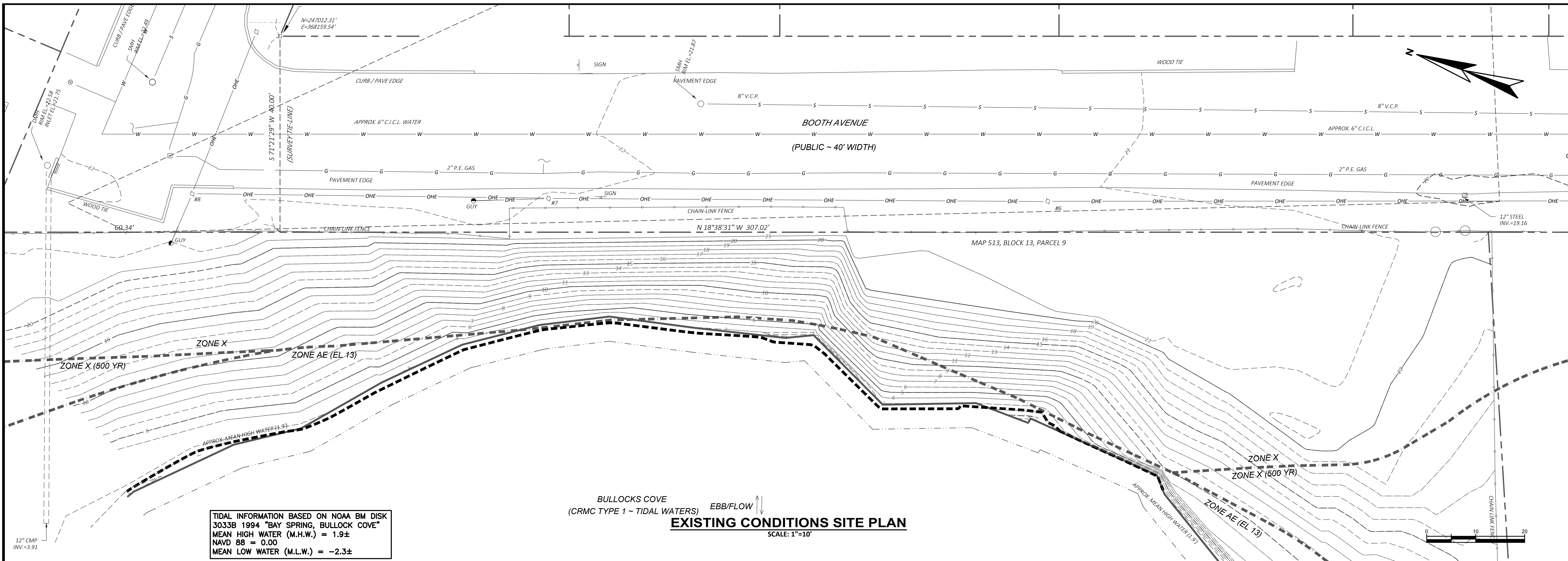
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LEGEND

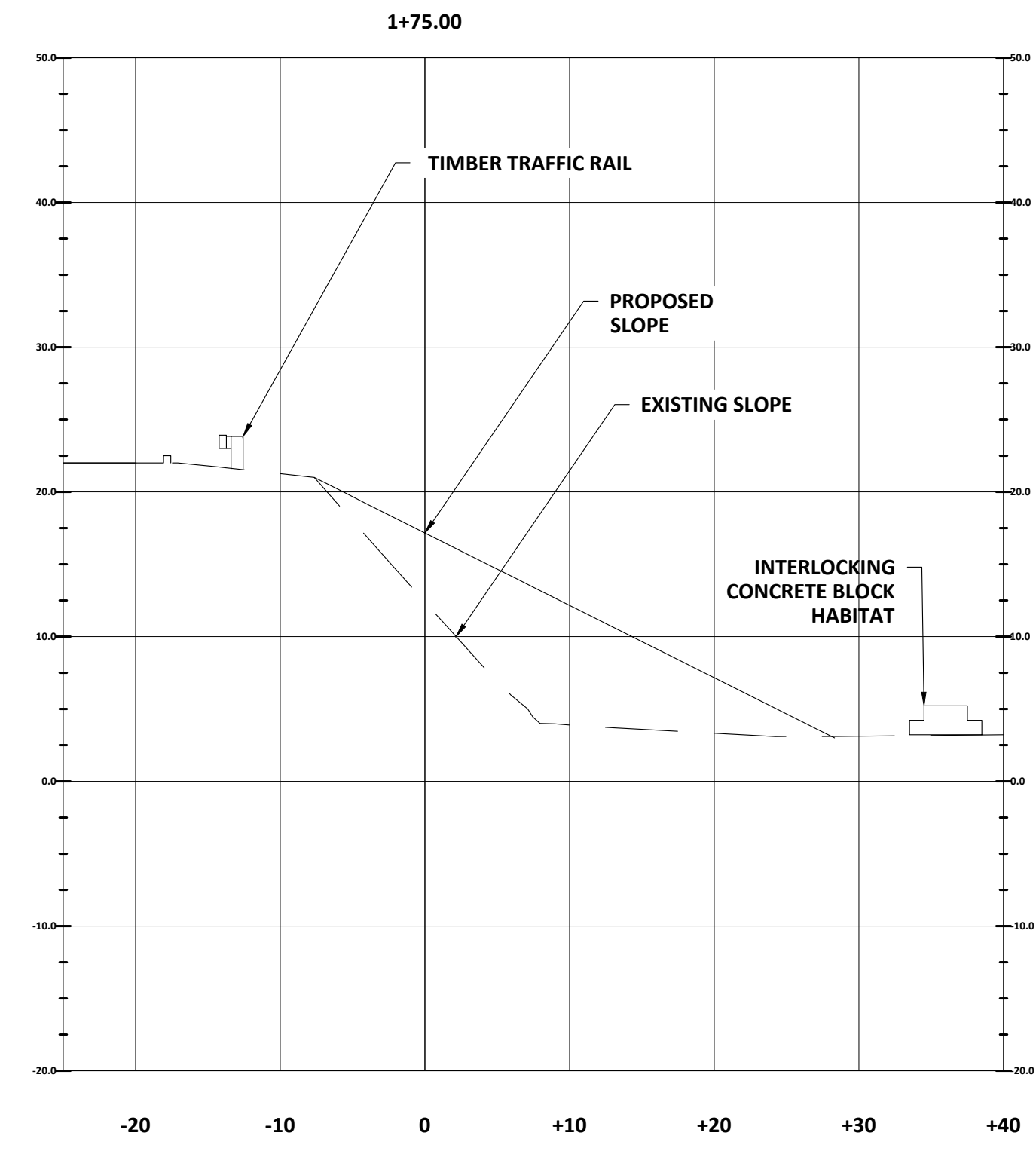
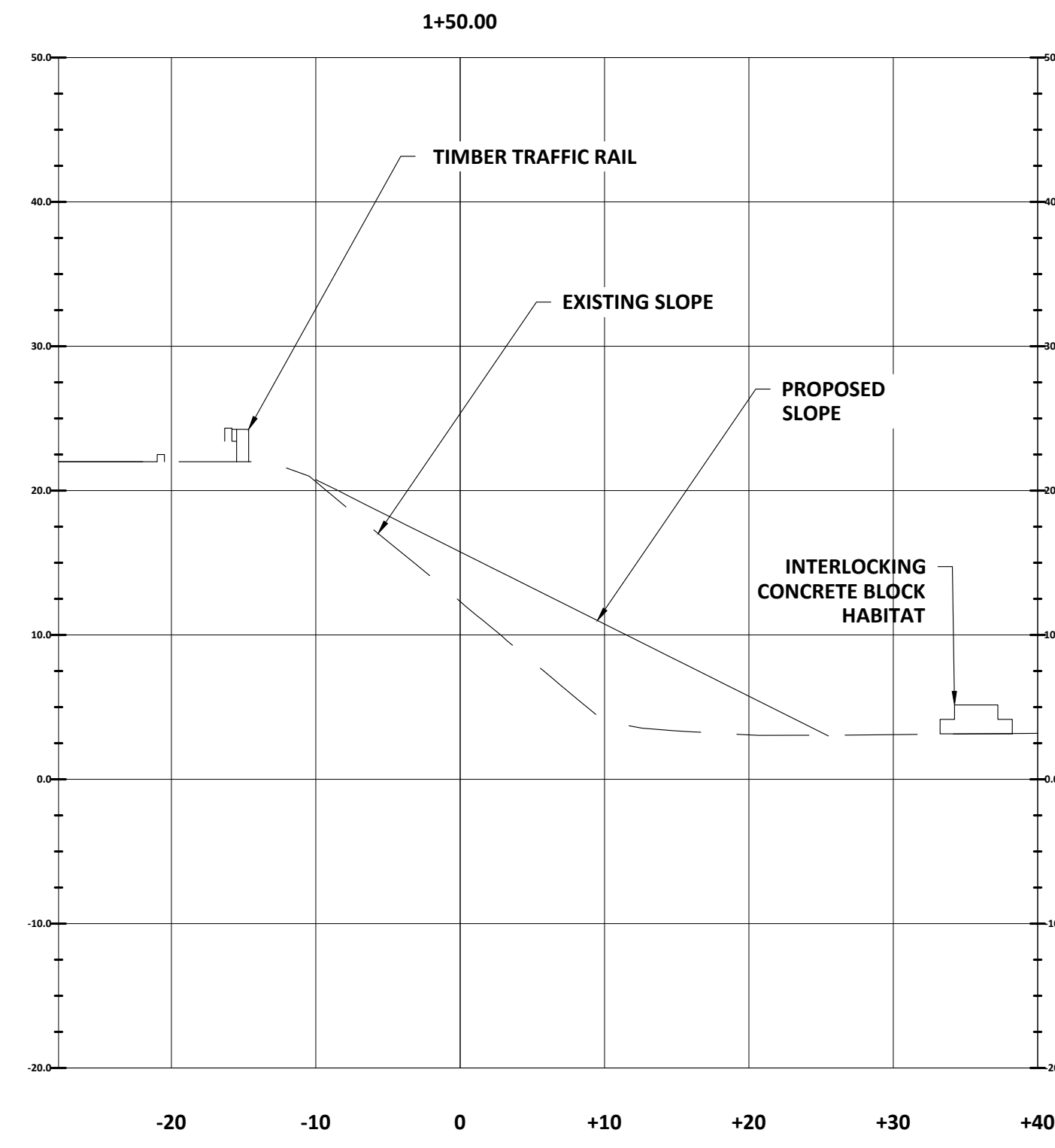
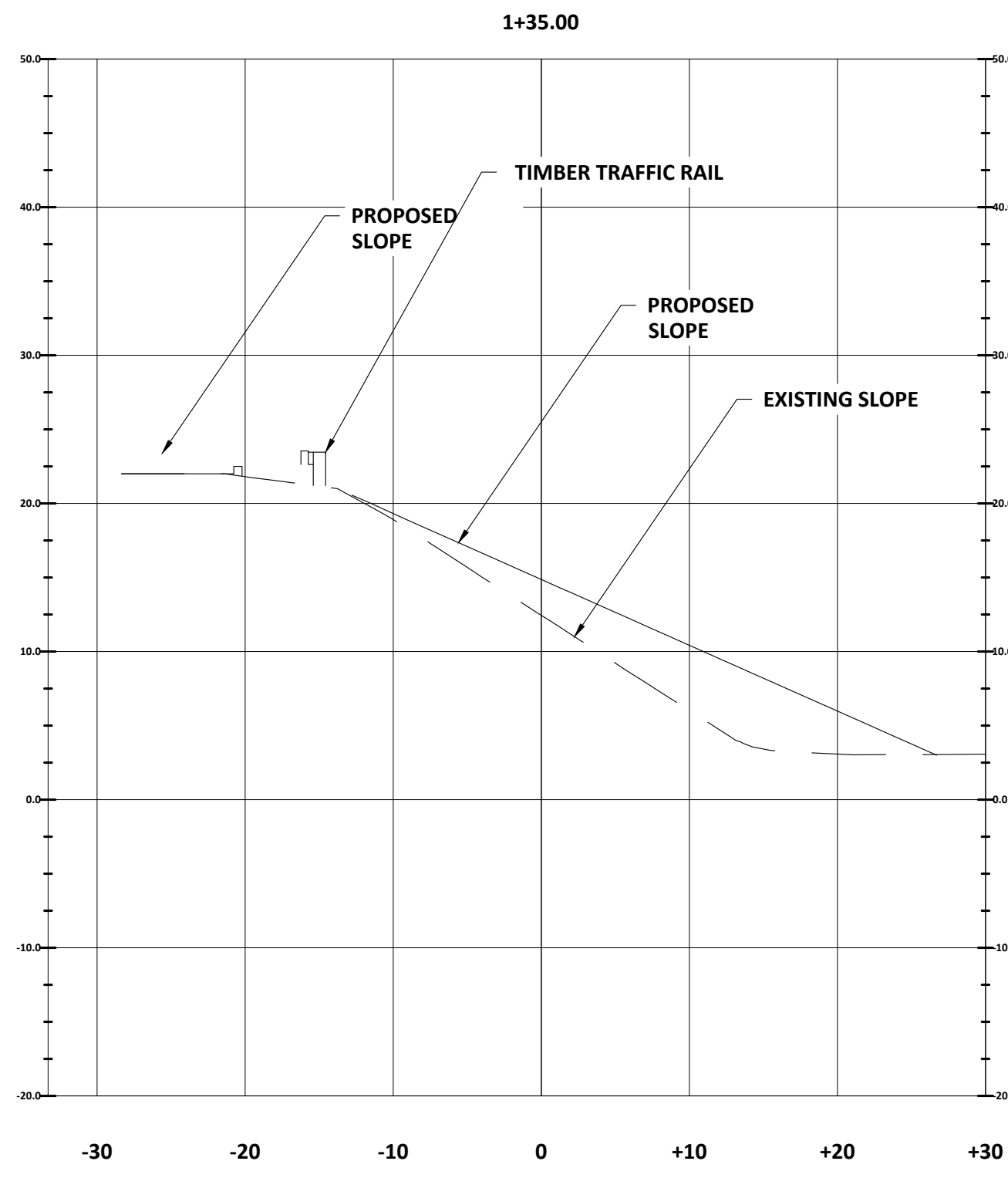
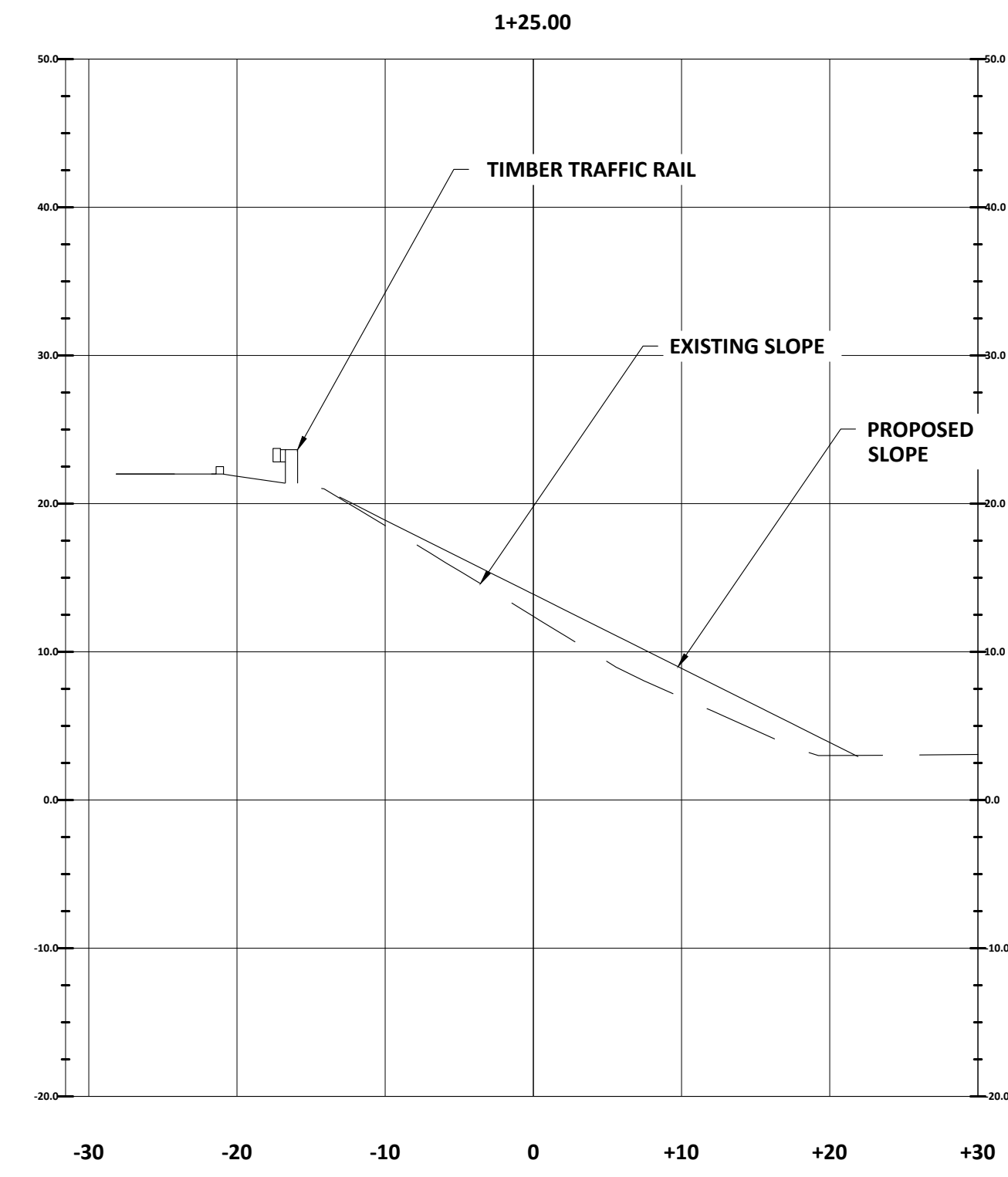
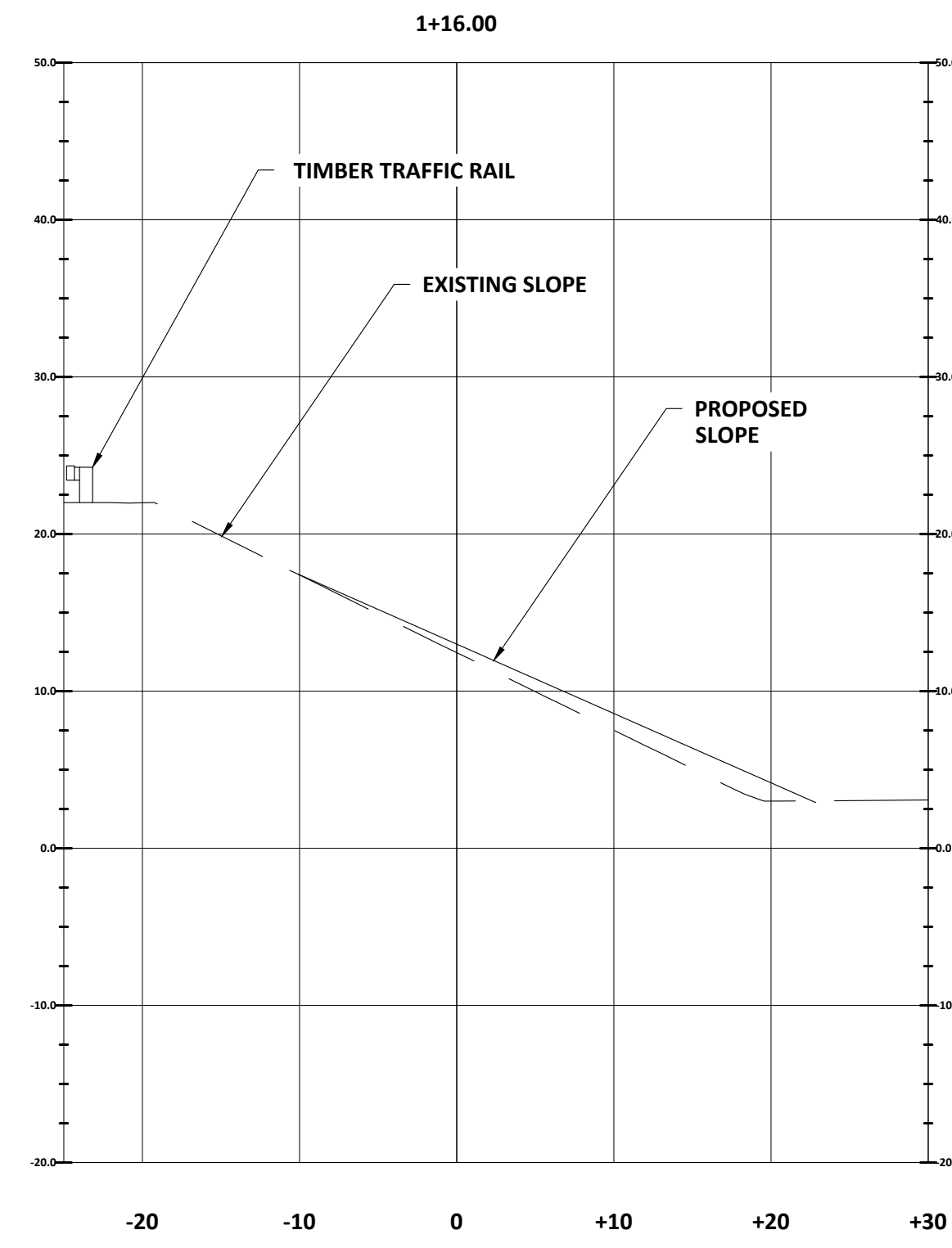
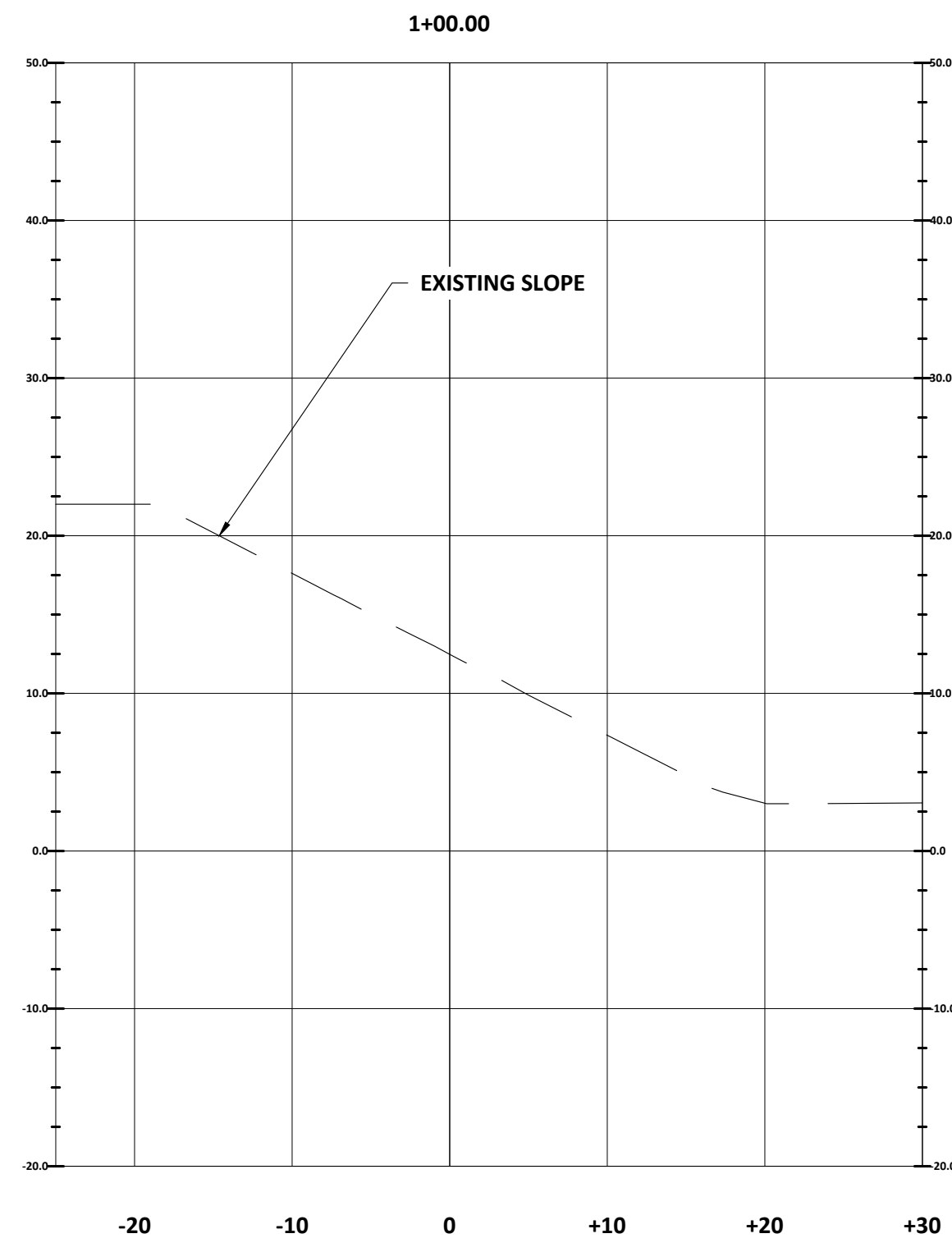
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TIDAL INFORMATION BASED ON NOAA BM DISK 3033B 1994 "BAY SPRING, BULLOCK COVE"
MEAN HIGH WATER (M.H.W.) = 1.9 ±
NAVD 88 = 0.00
MEAN LOW WATER (M.L.W.) = -2.3 ±

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J. MICHAUD	13981
888.621.8156 www.wright-pierce.com	
CITY OF EAST PROVIDENCE, RHODE ISLAND BOOTH AVENUE SLOPE STABILIZATION	
PLAN AND PROFILE	
C-2	



NO	DESCRIPTION	DATE
1	DESIGNED BY: J. MICHAUD	
2	CAD COORD.:	
3	CHECKED BY:	
4	DATE:	
5	APPROVED BY:	
6	DATE:	
7	PROJECT NO.:	13981

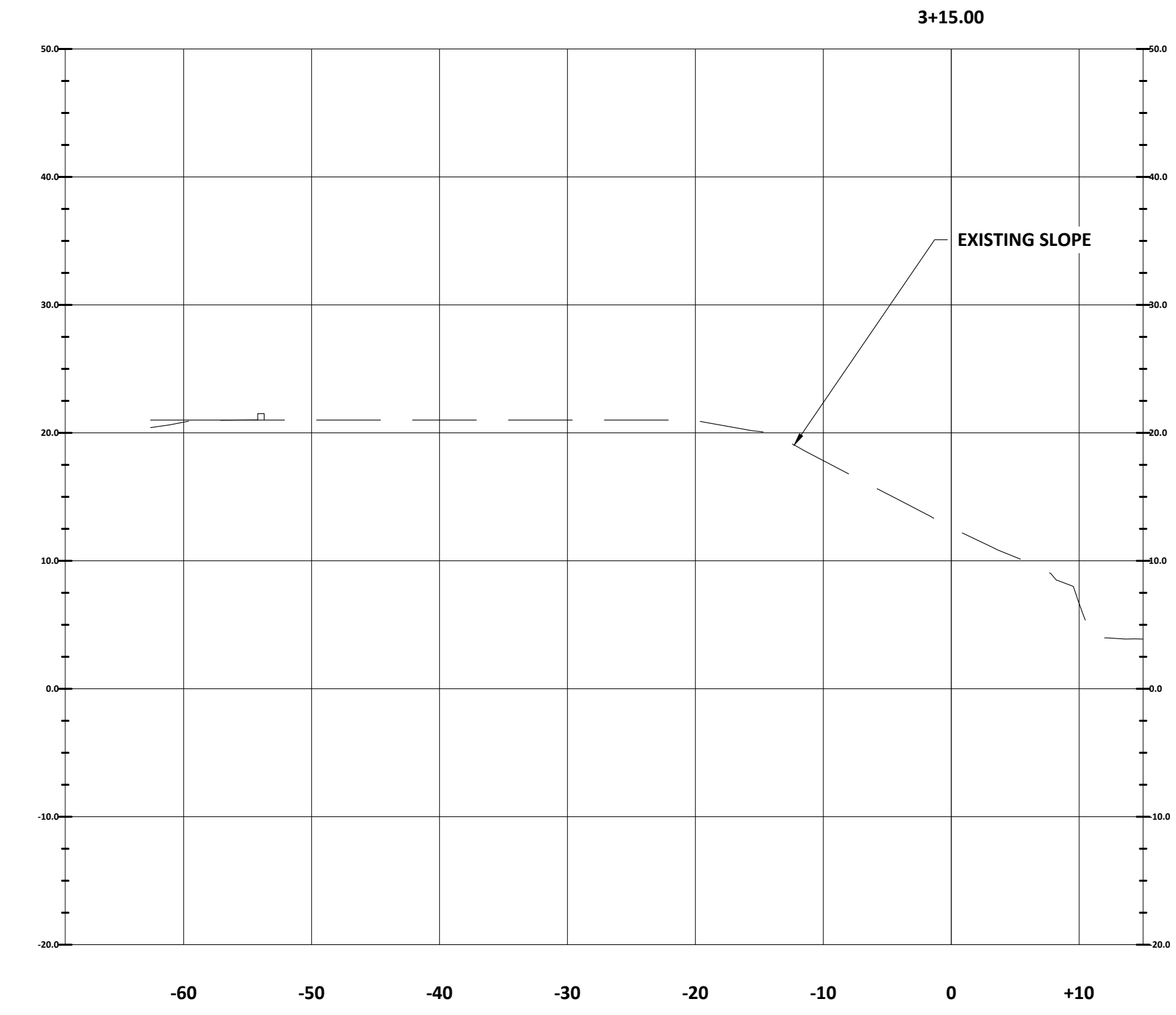
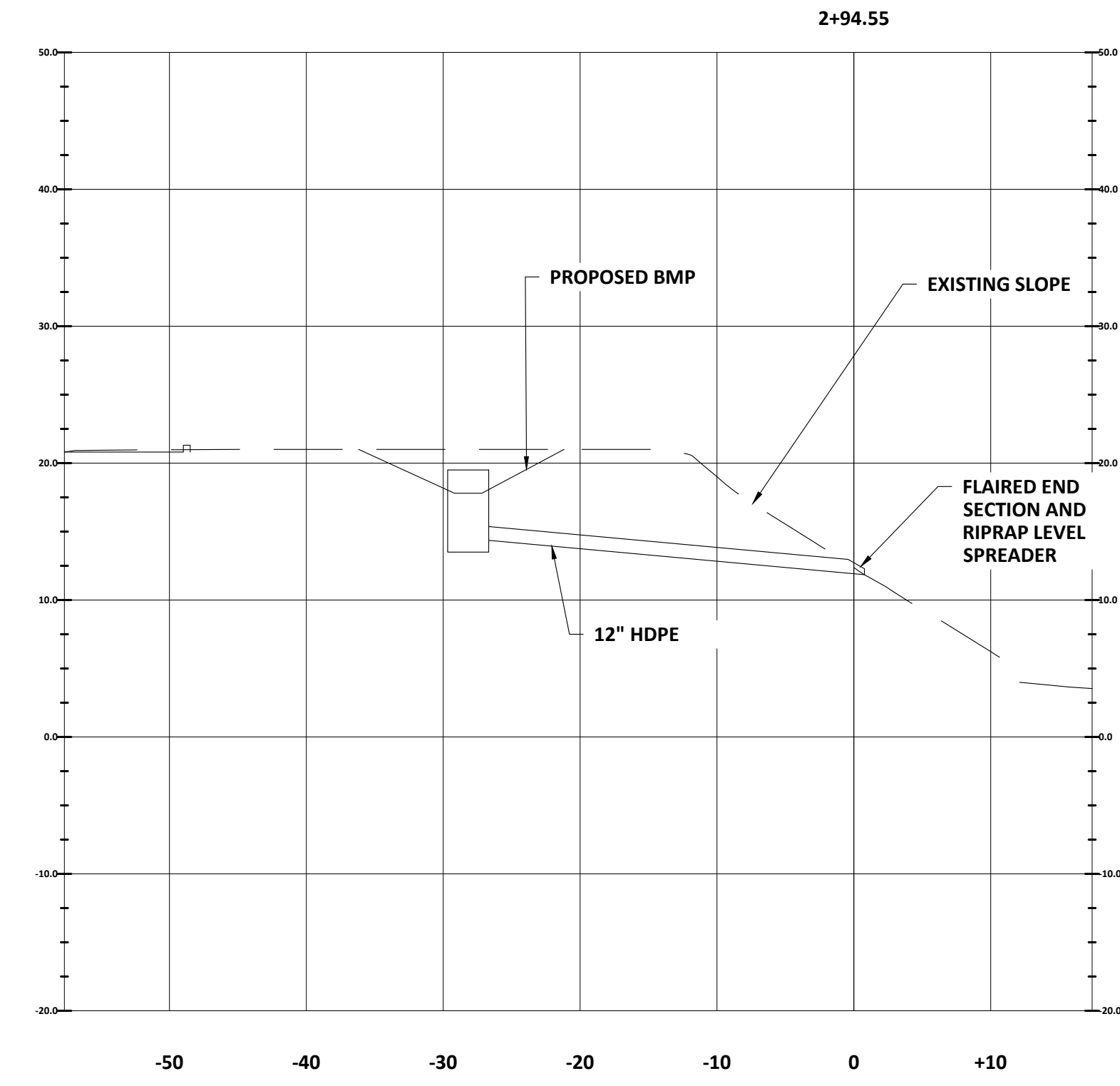
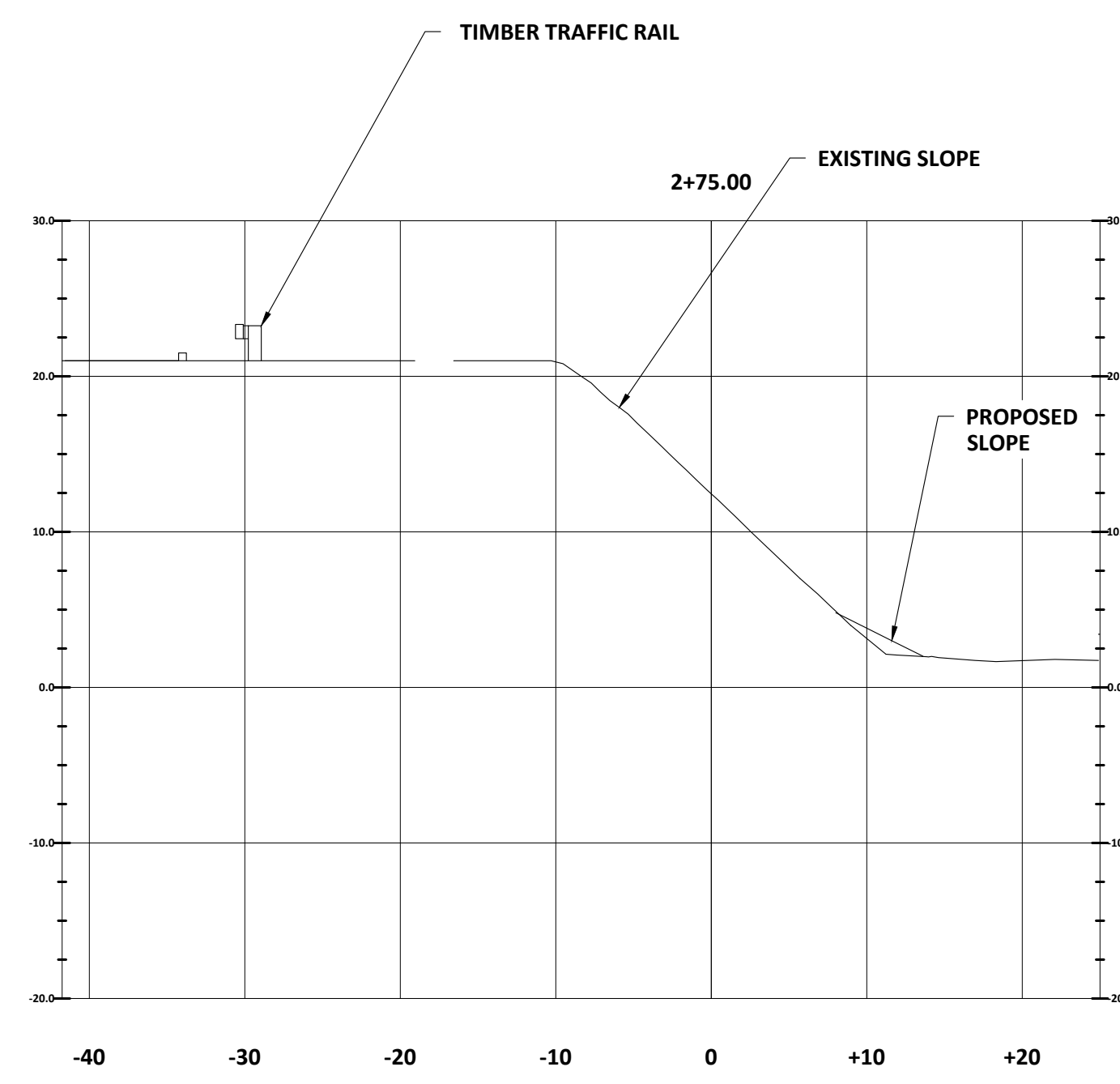
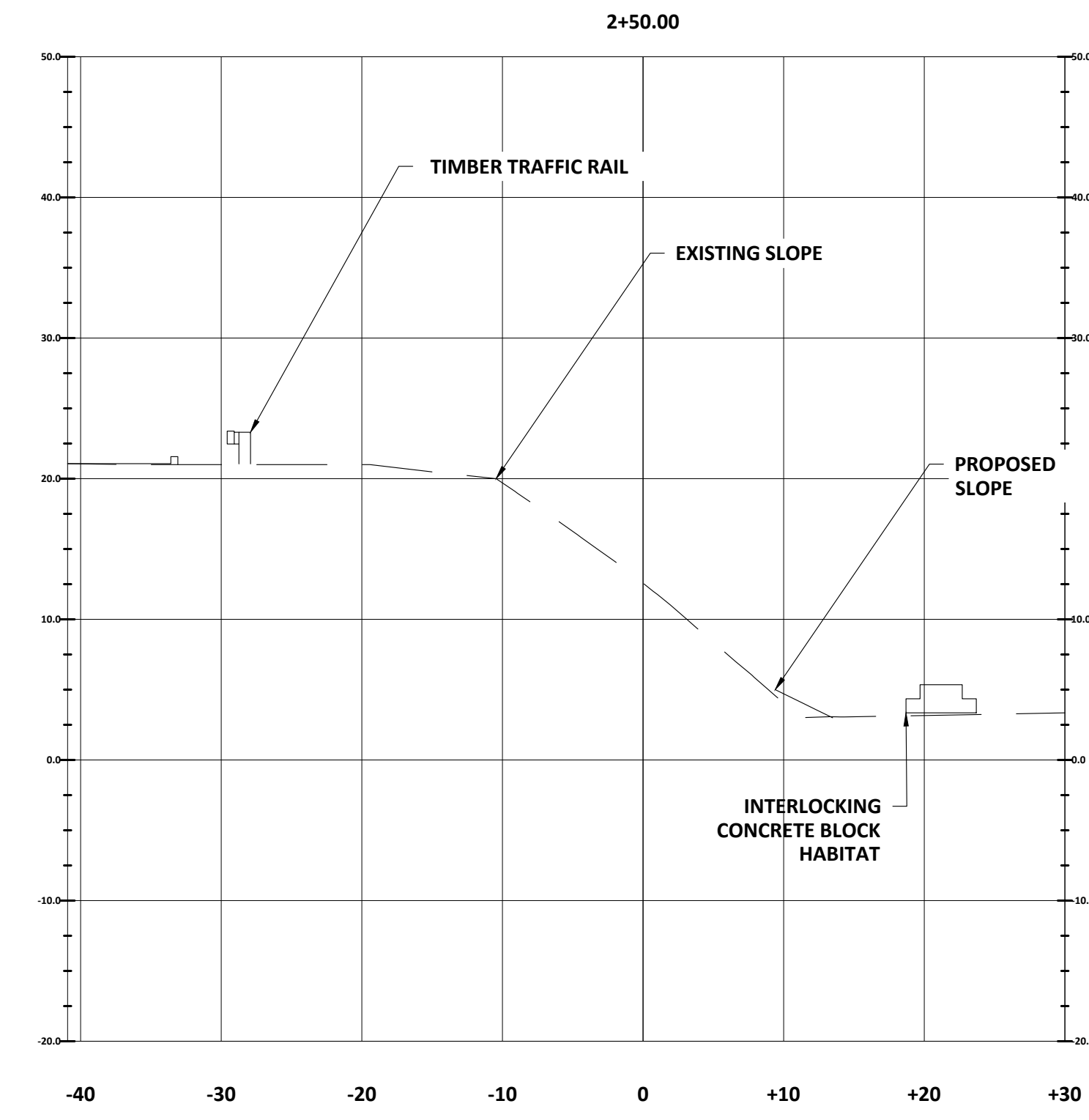
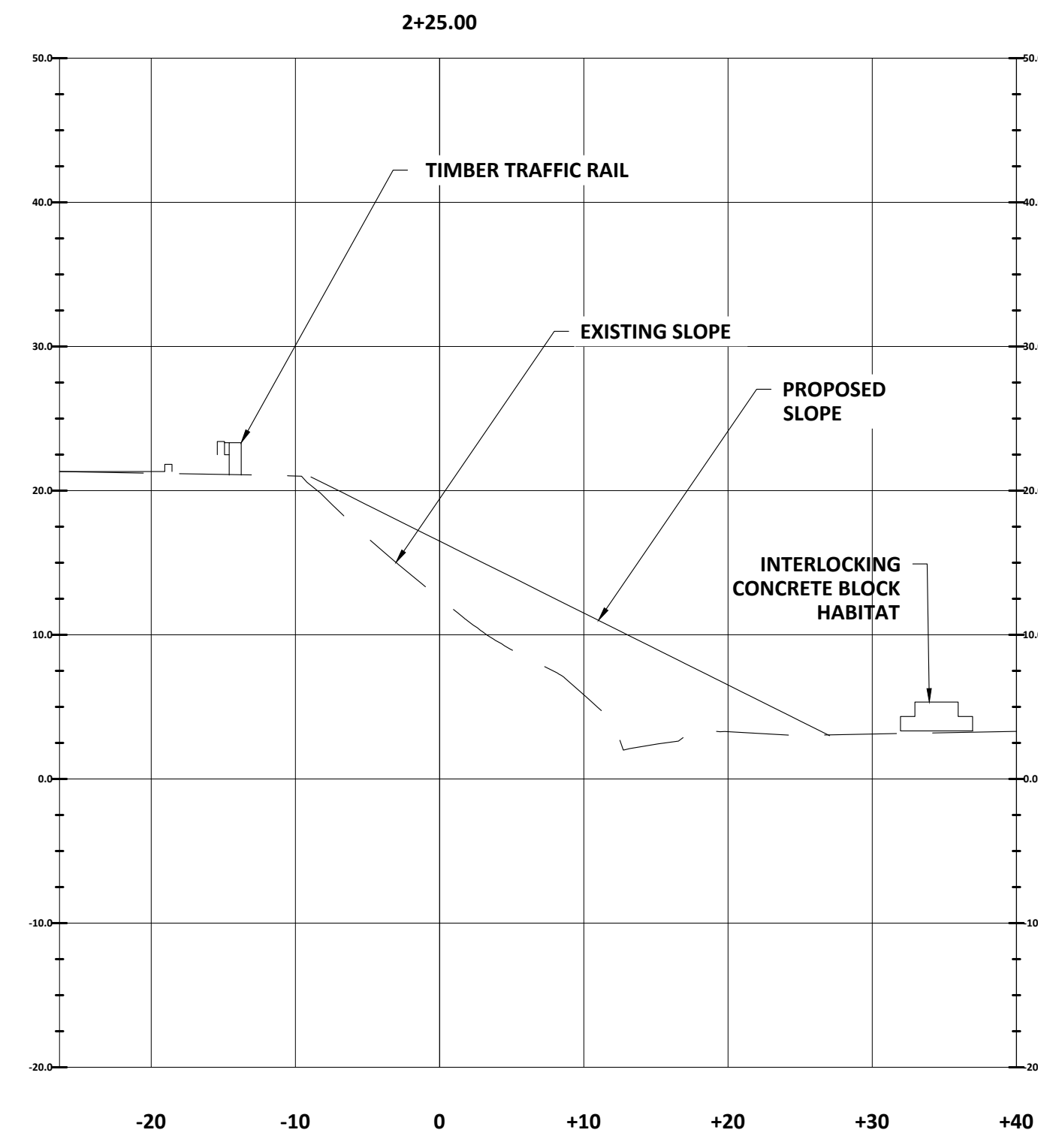
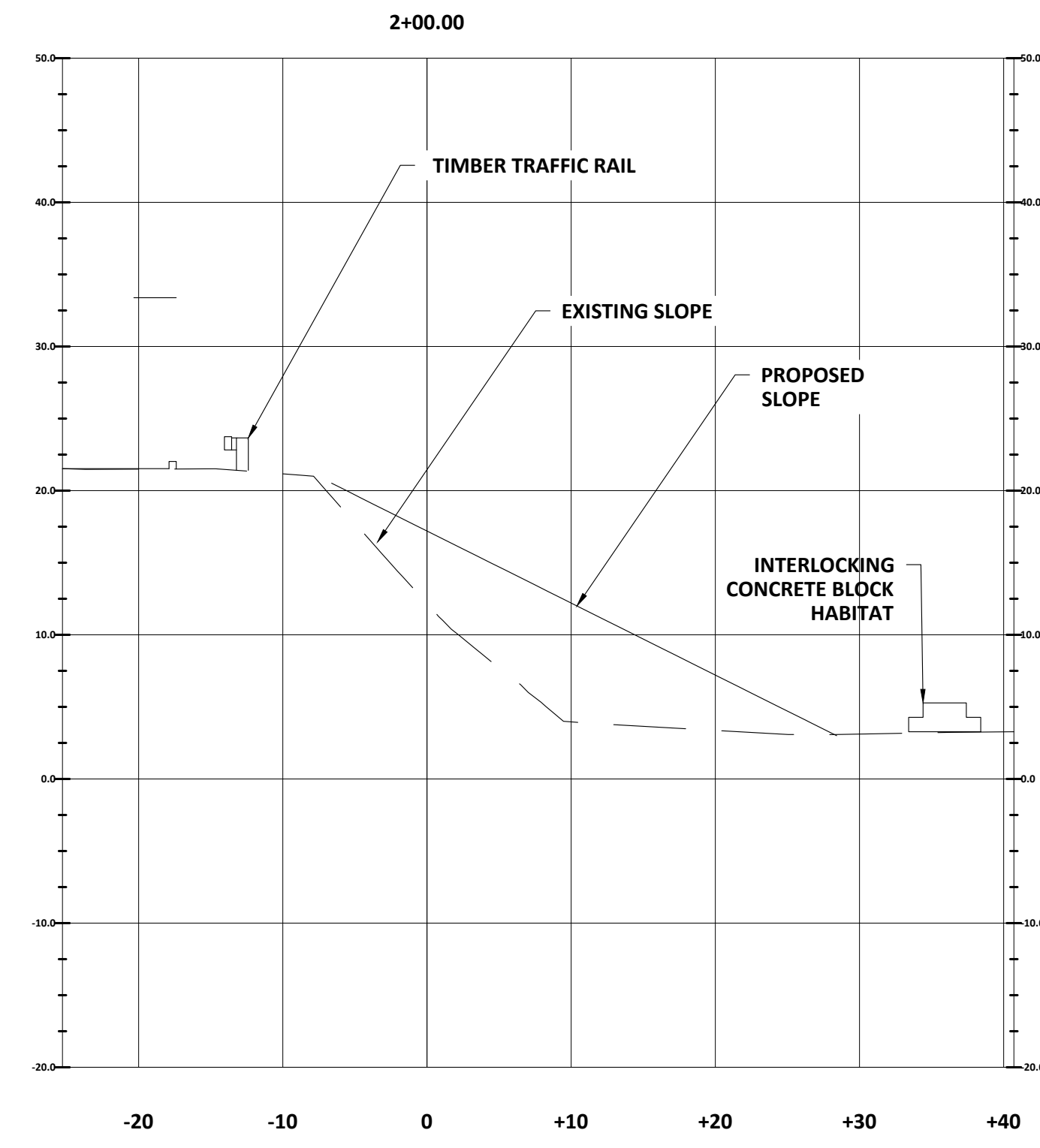


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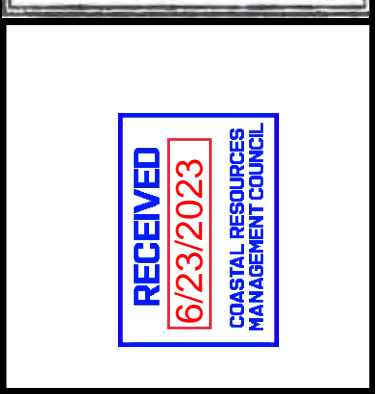
CITY OF EAST PROVIDENCE, RHODE ISLAND
BOOTH AVENUE SLOPE STABILIZATION

DRAWING
C-3

SECTIONS 1



NO	DESCRIPTION	DATE
1	DESIGNED BY: J. MICHAUD	
2	CAD COORD.:	
3	CHECKED BY:	
4	DATE:	
5	APPROVED BY:	
6	DATE:	
7	PROJECT NO.:	13981



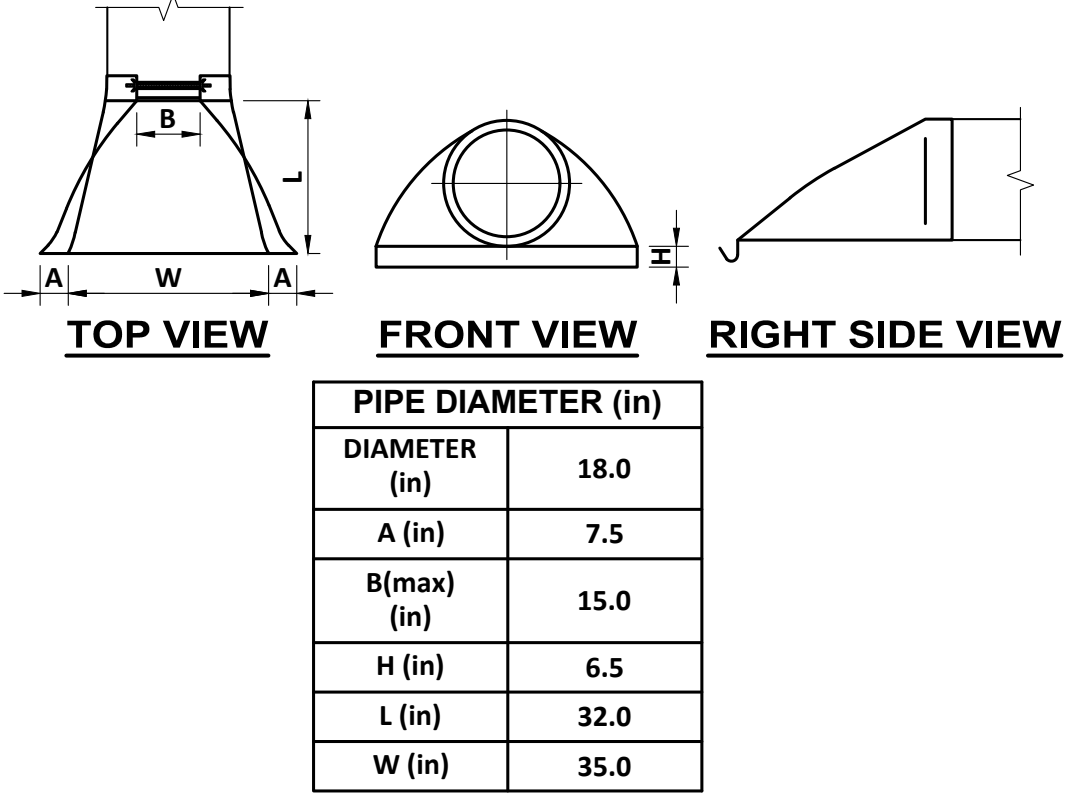
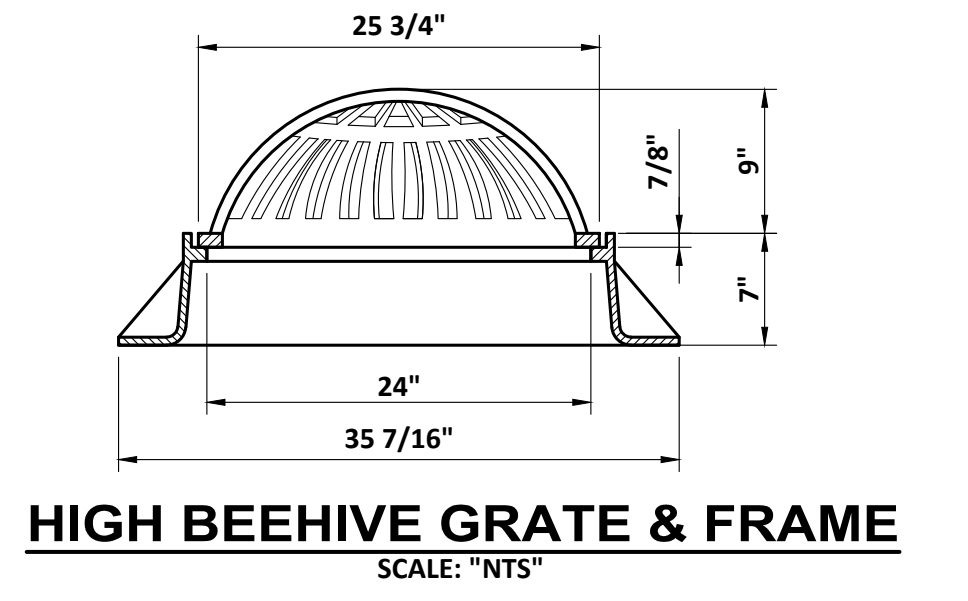
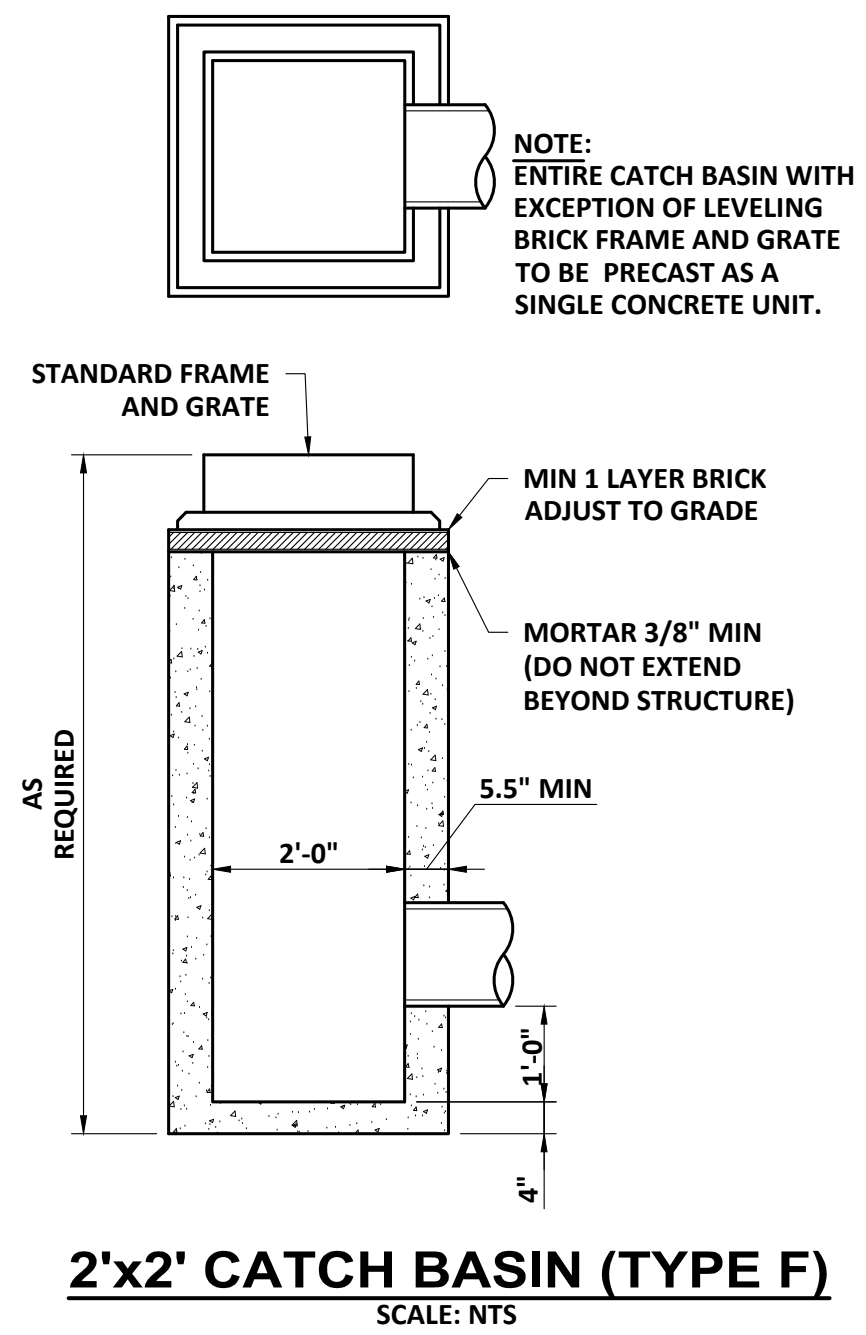
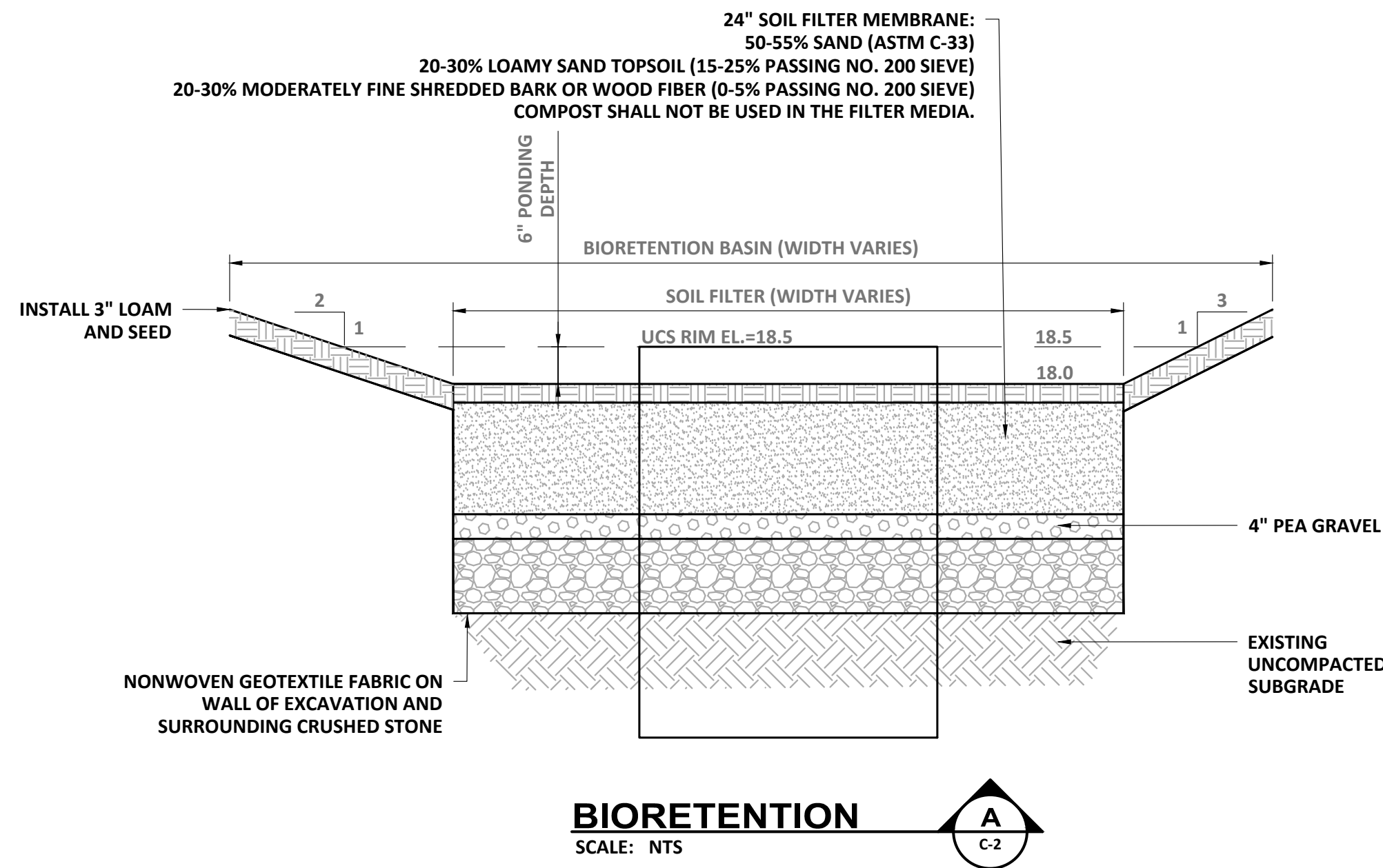
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CITY OF EAST PROVIDENCE, RHODE ISLAND
BOOTH AVENUE SLOPE STABILIZATION

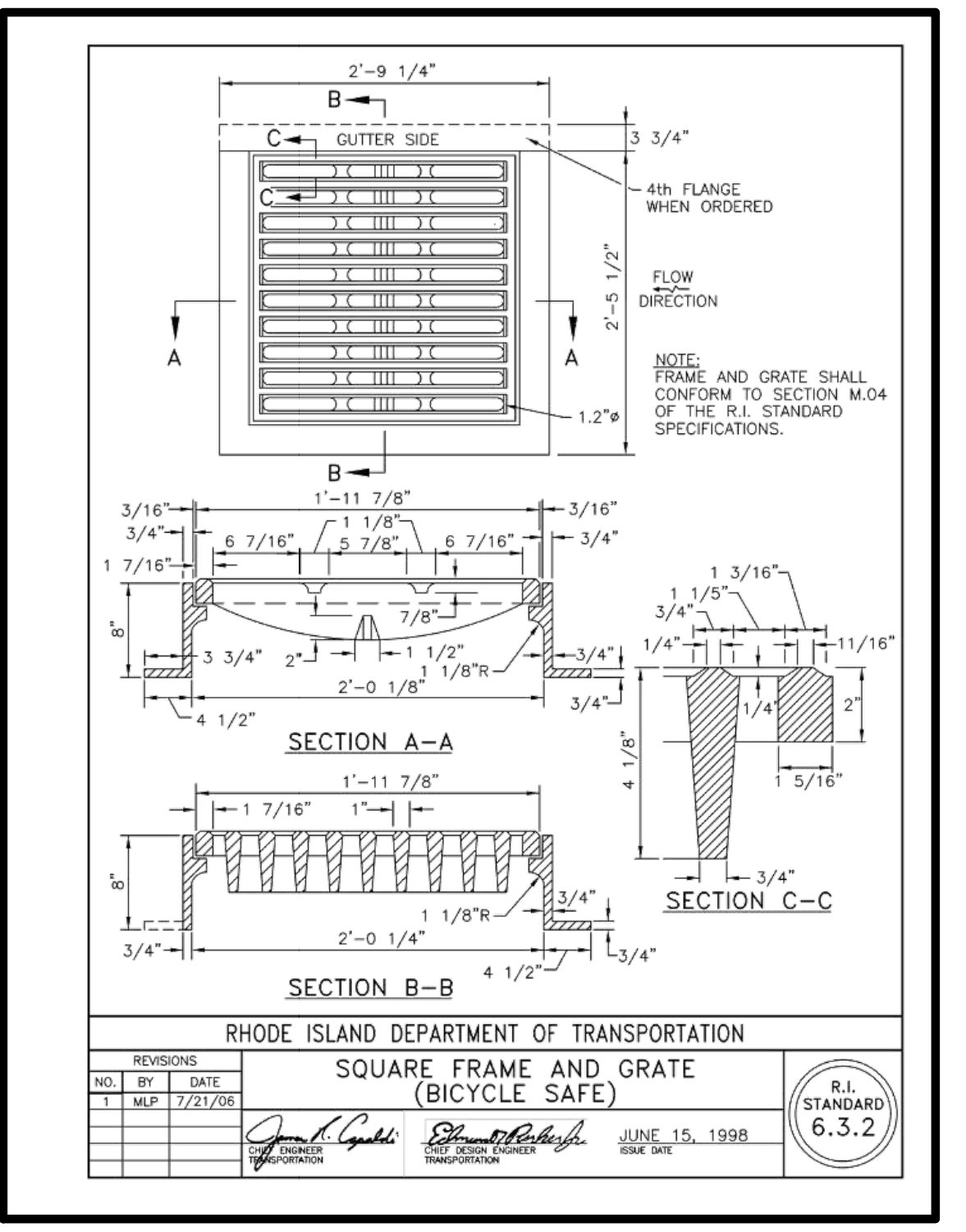
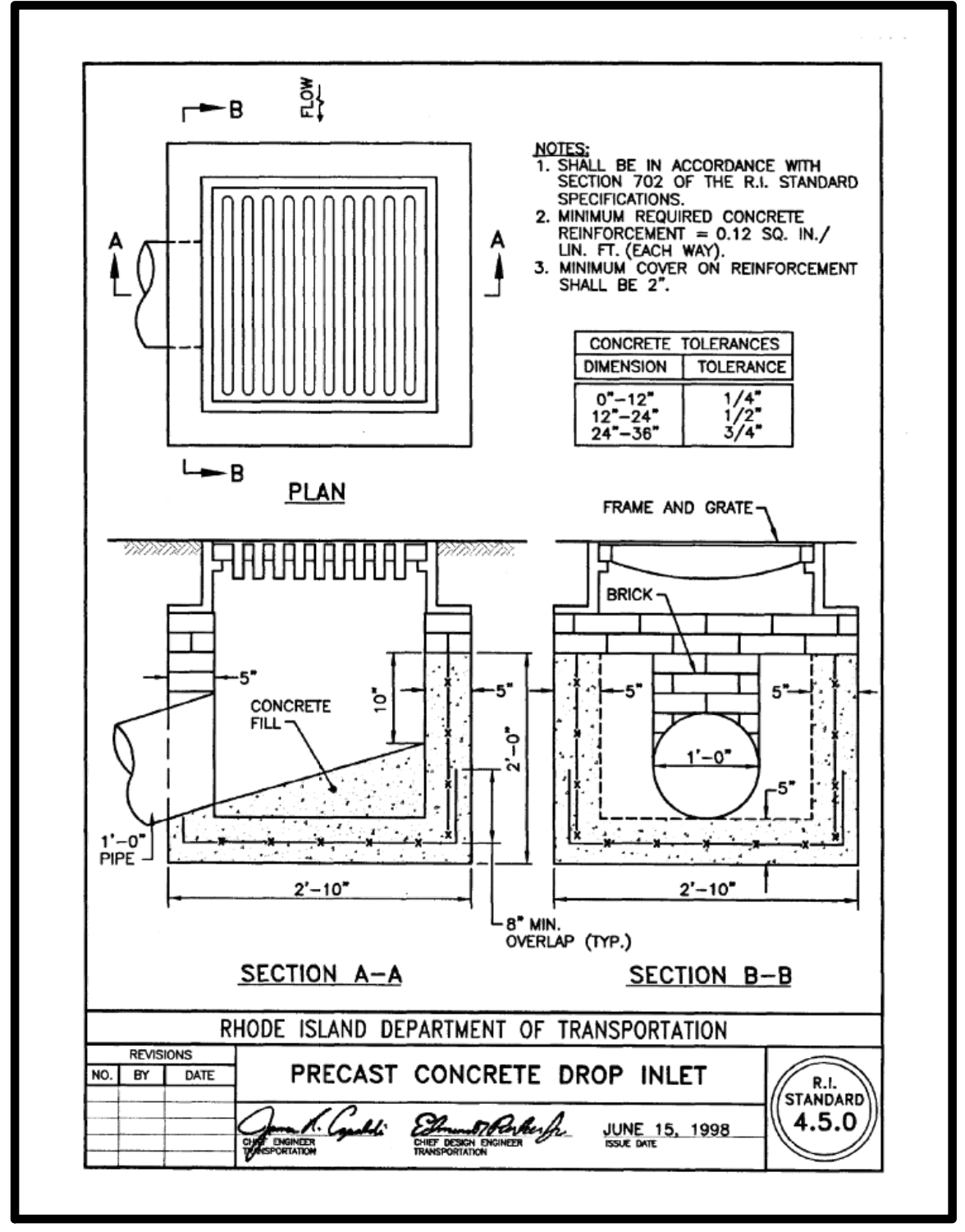
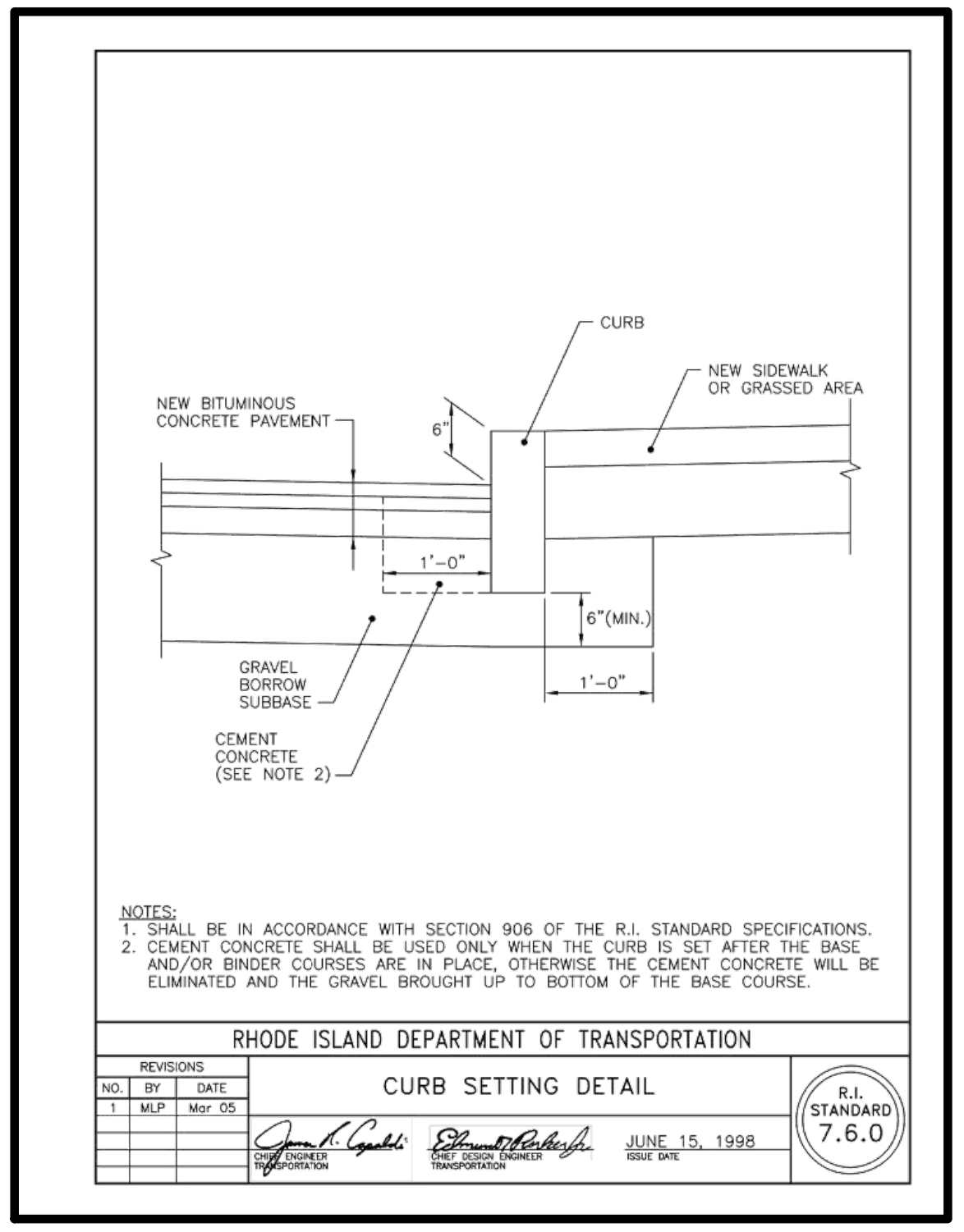
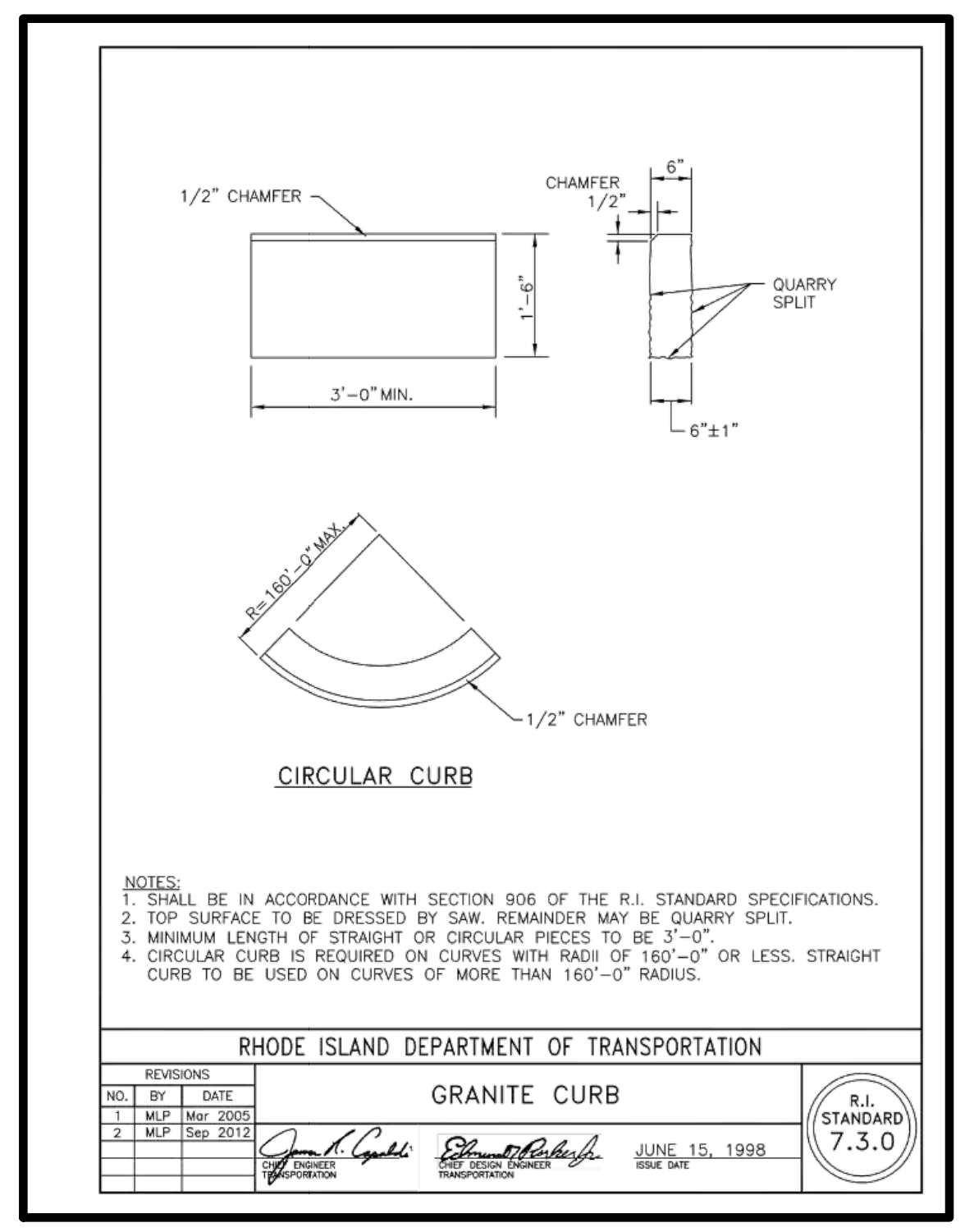
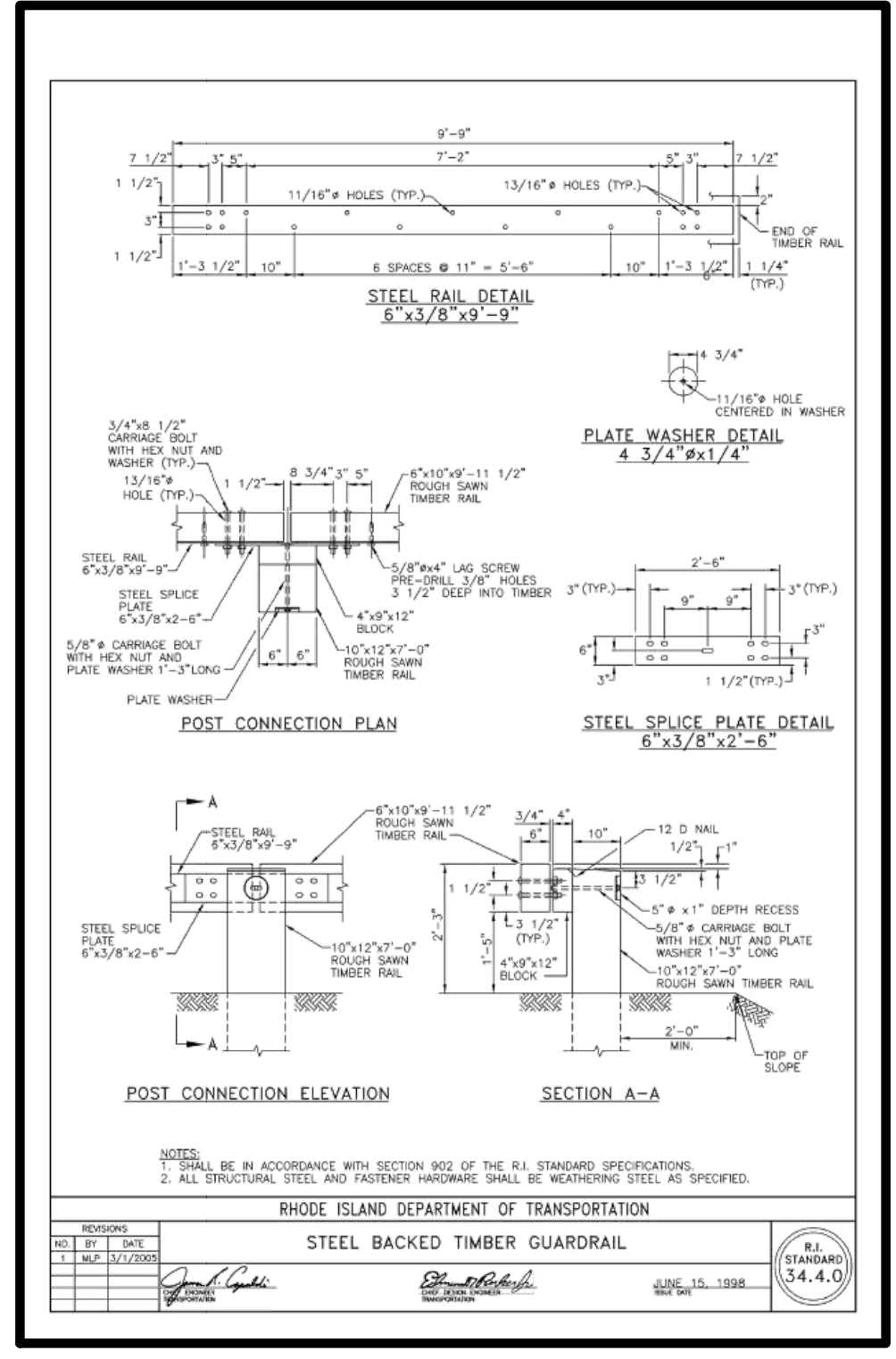
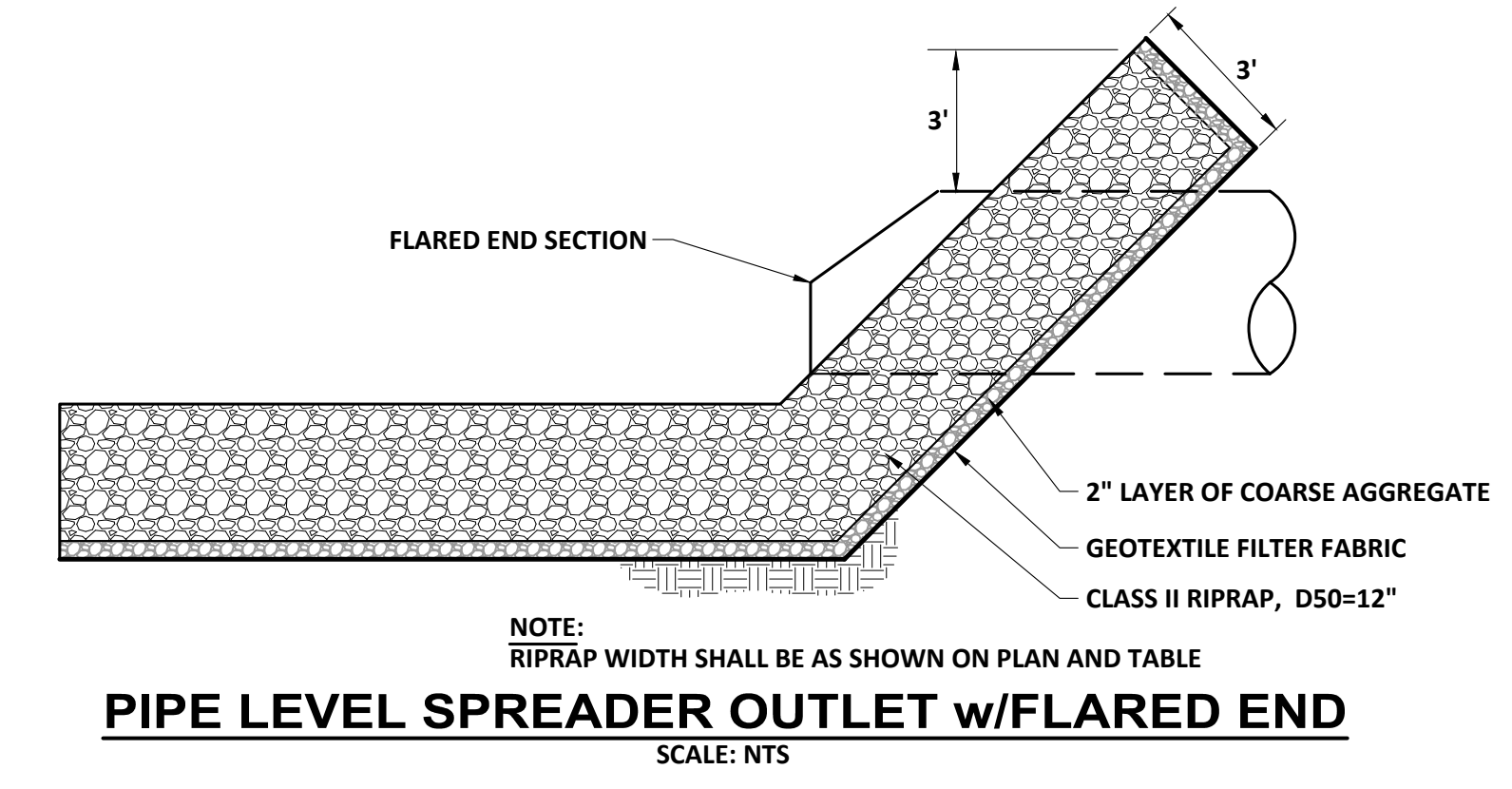
SECTIONS II

DRAWING
C-4



RIPRAP STABILIZATION TABLE

RIPRAP ID	LOCATION	WIDTH AT PIPE OUTLET (ft)	WIDTH AT RIPRAP OUTLET (ft)	LENGTH (ft)	D50 (in)
1	30 INCH RCP FLARED END SECTION	5	5	12	12



APP'D DATE

NO. SUBMISSIONS/REVISIONS

DESIGNED BY: J.S.HACTMAN
 CAD CORP.: J.MICHAUD
 CHECKED BY: J.MICHAUD
 DATE: 6/23/2023
 APPROVED BY: DERICK.HOPKINS
 DATE: 6/23/2023
 PROJECT NO.: 13981

DERICK.HOPKINS
 REG. NO. 1385
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL 6/16/15

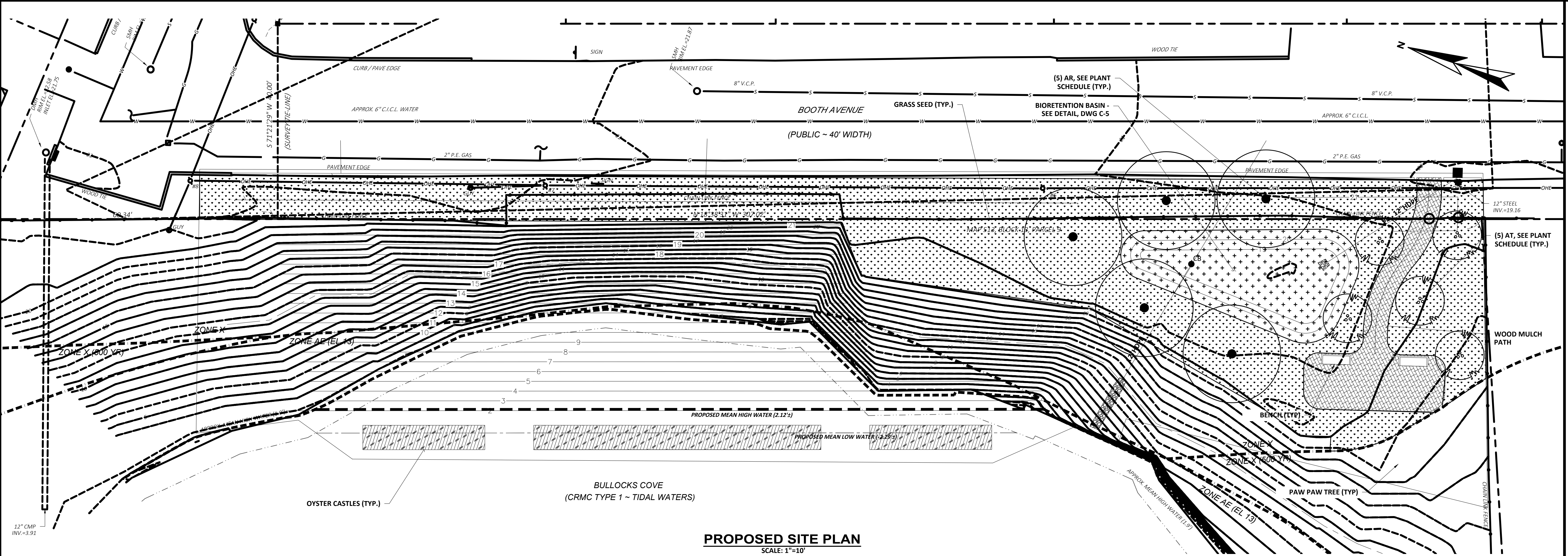
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CITY OF EAST PROVIDENCE, RHODE ISLAND
 BOOTH AVENUE SLOPE STABILIZATION

DETAILS IV

DRAWING
C-5

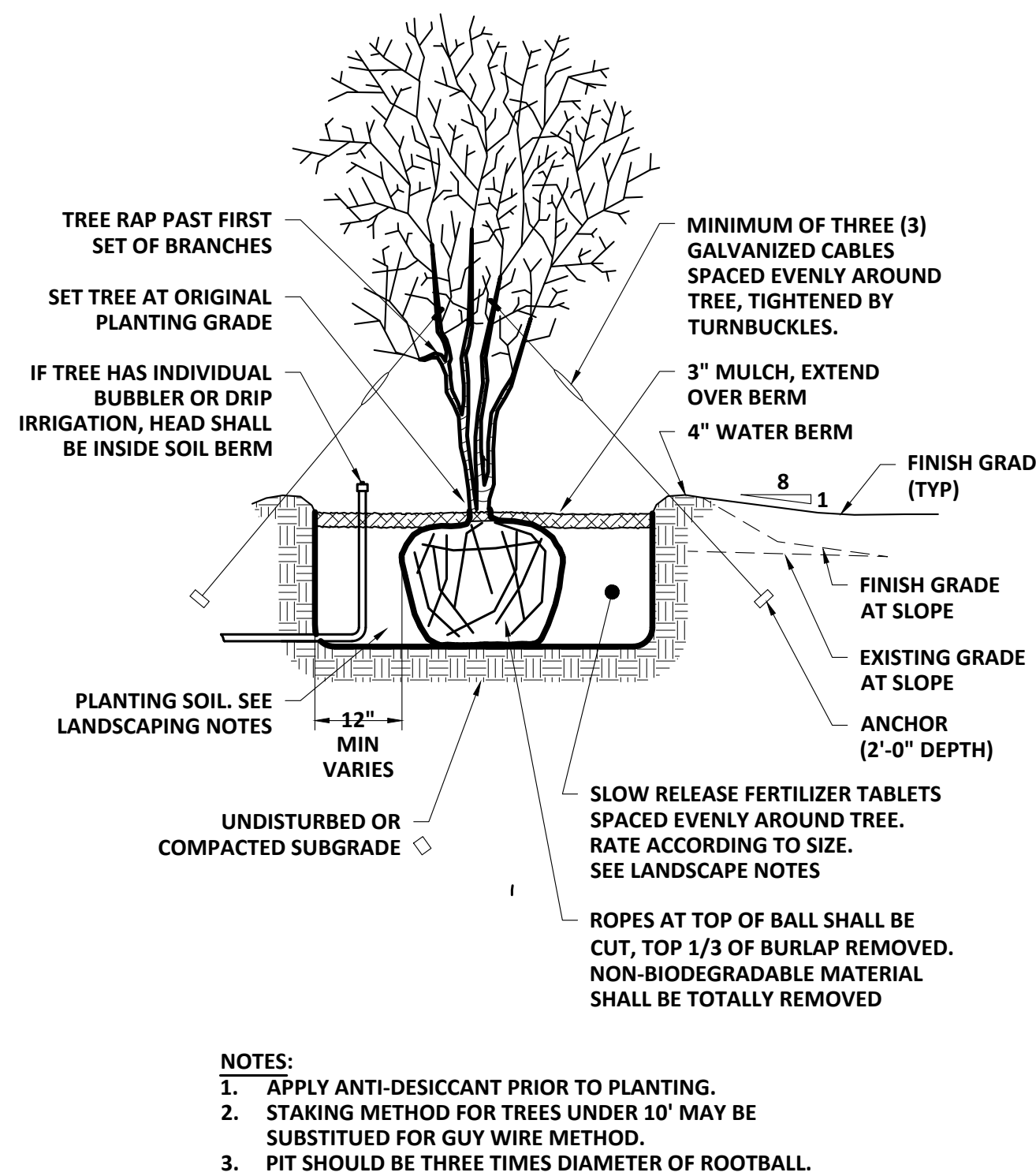
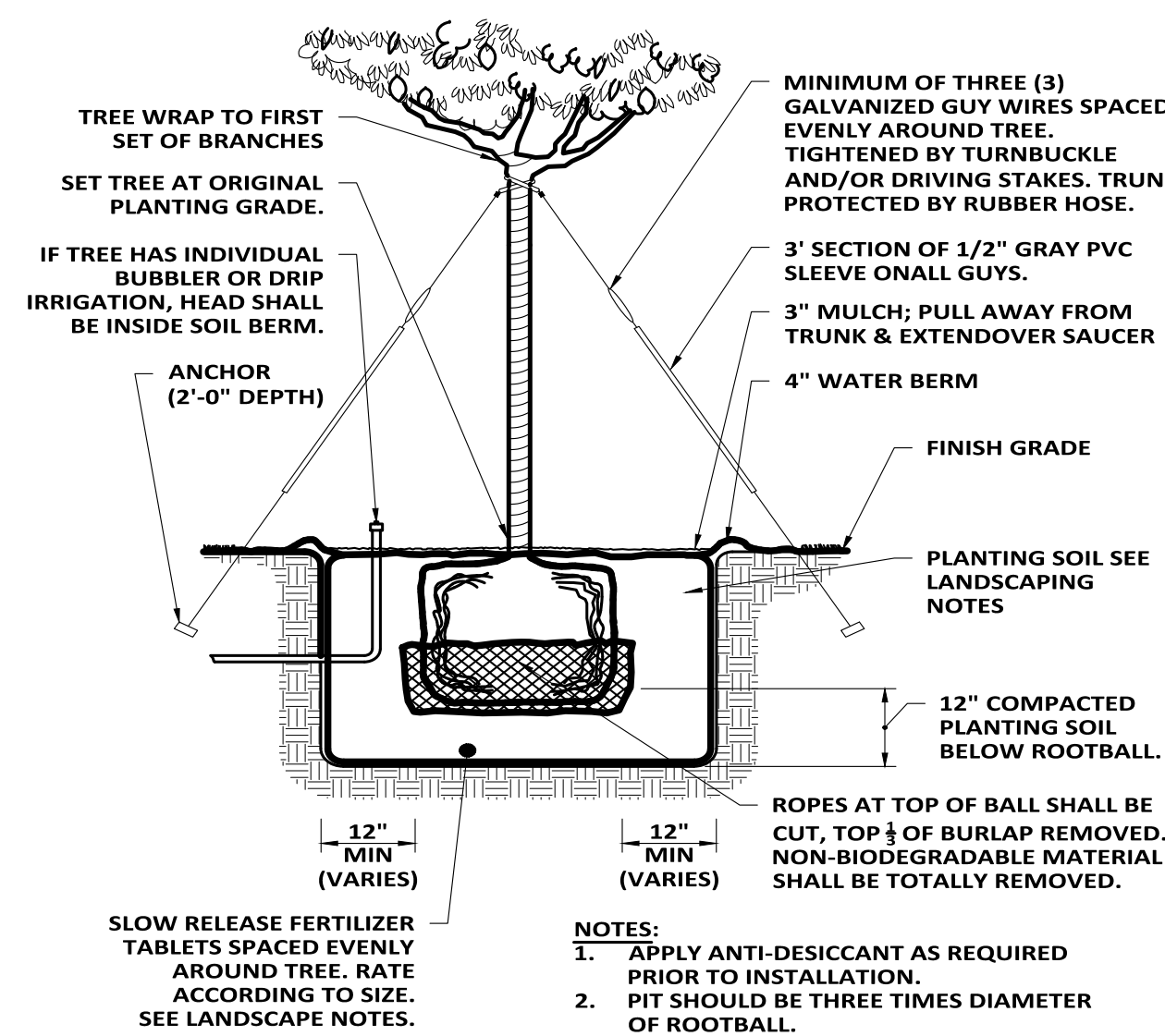


PLANTING SCHEDULE

SYMB.	QTY	BOT. NAME	COMMON NAME	SIZE	ROOT	COMMENTS
FRUIT TREES						
AT	5	ASIMINA TRILOBA	PAWPAW	7'-8' HT	B&B	SINGLE STEM, FULL, HEAVY, MATCHED
DECIDUOUS TREES						
AR	5	ACER RUBRUM	RED MAPLE	2 1/2"-3" CAL.	B&B	SINGLE STEM, FULL, HEAVY, MATCHED
BRUSH BRANCHES FOR SLOPE STABILIZATION						
200		CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	3' BRANCH	BARE ROOT	PLANT IN FALL, 3' O.C.
200		SALIX DISCOLOR	PUSSY WILLOW	3' BRANCH	BARE ROOT	PLANT IN FALL, 3' O.C.
200		VIBURNUM DENTATUM	ARROWWOOD	3' BRANCH	BARE ROOT	PLANT IN FALL, 3' O.C.
SEED & LOAM						
800 SF		BIORETENTION SEED MIX	SEE SPECIFICATIONS			
4,600 SF		GRASS SEED MIX	SEE SPECIFICATIONS			

PLANTING NOTES:

- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN, LATEST EDITION. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF THE HIGHEST SPECIMEN QUALITY.
- SEE SPECIFICATIONS FOR ITEMS NOT COVERED ON THE PLANS AND DETAILS.
- CONTRACTOR SHALL INSPECT SITE PRIOR TO BEGINNING PLANTING OPERATIONS AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT SUITABLE TO PERFORMING PLANTING OPERATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.
- NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS THEY BORE TO PREVIOUS GRADE.
- PLANT GROUPING AND LOCATIONS ARE DIAGRAMMATIC. THE LOCATION OF PLANTS SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANTS INSTALLED PRIOR TO FIELD STAKING OR DIRECTION BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AS DIRECTED BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
- PLANT MATERIAL DELIVERED ON SITE SHALL BE HEALED-IN AT A SHADY LOCATION UNTIL PLANTING AREA IS PREPARED FOR INSTALLATION. ANY PLANTS REMAINING UNPLANTED ON THE SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED AND MAINTAINED INCLUDING BUT NOT LIMITED TO WATER AND SHADE. DAMAGED OR STRESSED PLANTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THERE WILL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT/ENGINEER.
- THE GENERAL CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN ALL PREPARED PLANTING AREAS FREE FROM DEBRIS. NO STORAGE OR STOCKPIILING SHALL OCCUR ON PLANTING AREAS.
- THE CONTRACTOR IS TO USE CARE DURING EXCAVATION AND PLANTING TO AVOID DISTURBING OR DAMAGING ANY ADJACENT CONSTRUCTION SUBSURFACE DRAINAGE OR UTILITIES. ANY DAMAGE RESULTING FROM THIS CONSTRUCTION WILL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE RESTORED AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF PLANTING.
- THE CONTRACTOR SHALL SUPPLY PLANT MATERIAL IN THE QUANTITIES INDICATED ON THE PLANS. FOR DISCREPANCIES BETWEEN THE PLANS AND THE PLANT SCHEDULE, THE PLAN QUANTITIES SHALL PREVAIL.
- ALL PLANT MATERIAL IN CONTAINERS SHALL BE WELL ESTABLISHED ROOTED MATERIAL THAT OCCUPIES THE ENTIRE VOLUME OF SPECIFIED CONTAINER.
- PLANTS WITH GIRDLING ROOTS SHALL BE REJECTED. CONTAINER GROWN PLANTS WITH TIGHT ROOT MASSES SHALL BE SCARIFIED PRIOR TO PLANTING.
- THE TREE ROOT FLARE SHALL BE EXPOSED AND PLANTED EVEN WITH THE FINISH GRADE. PREPARE ALL TREE PITS WITH PLANTING SOIL TO A MINIMUM DEPTH MATCHING THE DEPTH OF TREE ROOT BALLS.
- ALL PLANT BEDS ARE TO RECEIVE THREE INCHES (3") OF SHREDDED BARK MULCH AS SPECIFIED. NO SEPARATE PAY ITEM FOR MULCH OR AND/OR FERTILIZER PACKETS. PAID FOR UNDER PLANTING ITEMS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED, PRUNED AND FERTILIZED PER THE SPECIFICATIONS.
- ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL BE LOAMED AND SEEDING AS SPECIFIED. ALL AREAS TO BE SEEDING SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN.
- ALL AREAS TO BE SEEDING WITH GRASS SEED MIX SHALL RECEIVE 6" TOPSOIL PRIOR TO SEEDING.



- NOTES:**
- APPLY ANTI-DESICCANT PRIOR TO PLANTING.
 - STAKING METHOD FOR TREES UNDER 10' MAY BE SUBSTITUTED FOR GUY WIRE METHOD.
 - PIT SHOULD BE THREE TIMES DIAMETER OF ROOTBALL.

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CITY OF EAST PROVIDENCE, RHODE ISLAND
BOOTH AVENUE SLOPE STABILIZATION

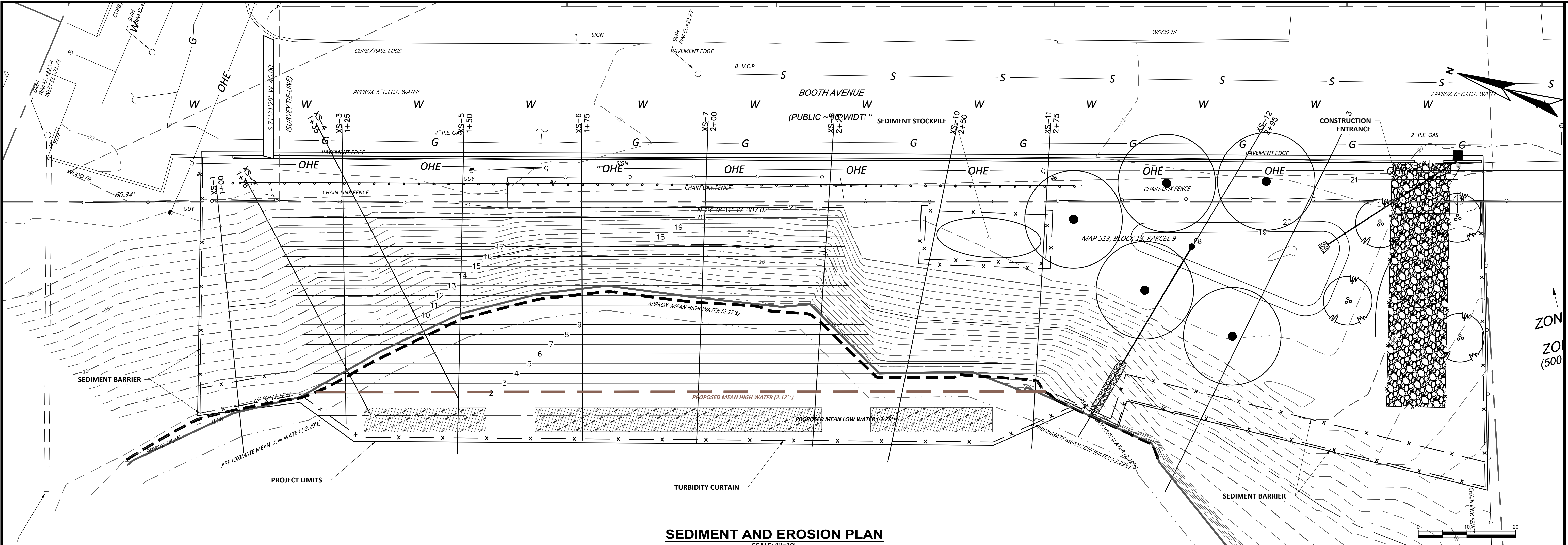
LANDSCAPE PLAN

DRAWING
C-6

APPD DATE
SUBMISSIONS/REVISIONS
NO
DESIGNED BY: J. MICHAUD
CAD COORD.:
CHECKED BY:
DATE:
APPROVED BY:
DATE:
PROJECT NO.: 13981

DERICK HOPKINS
REGISTERED PROFESSIONAL ENGINEER
CIVIL
No. 1385

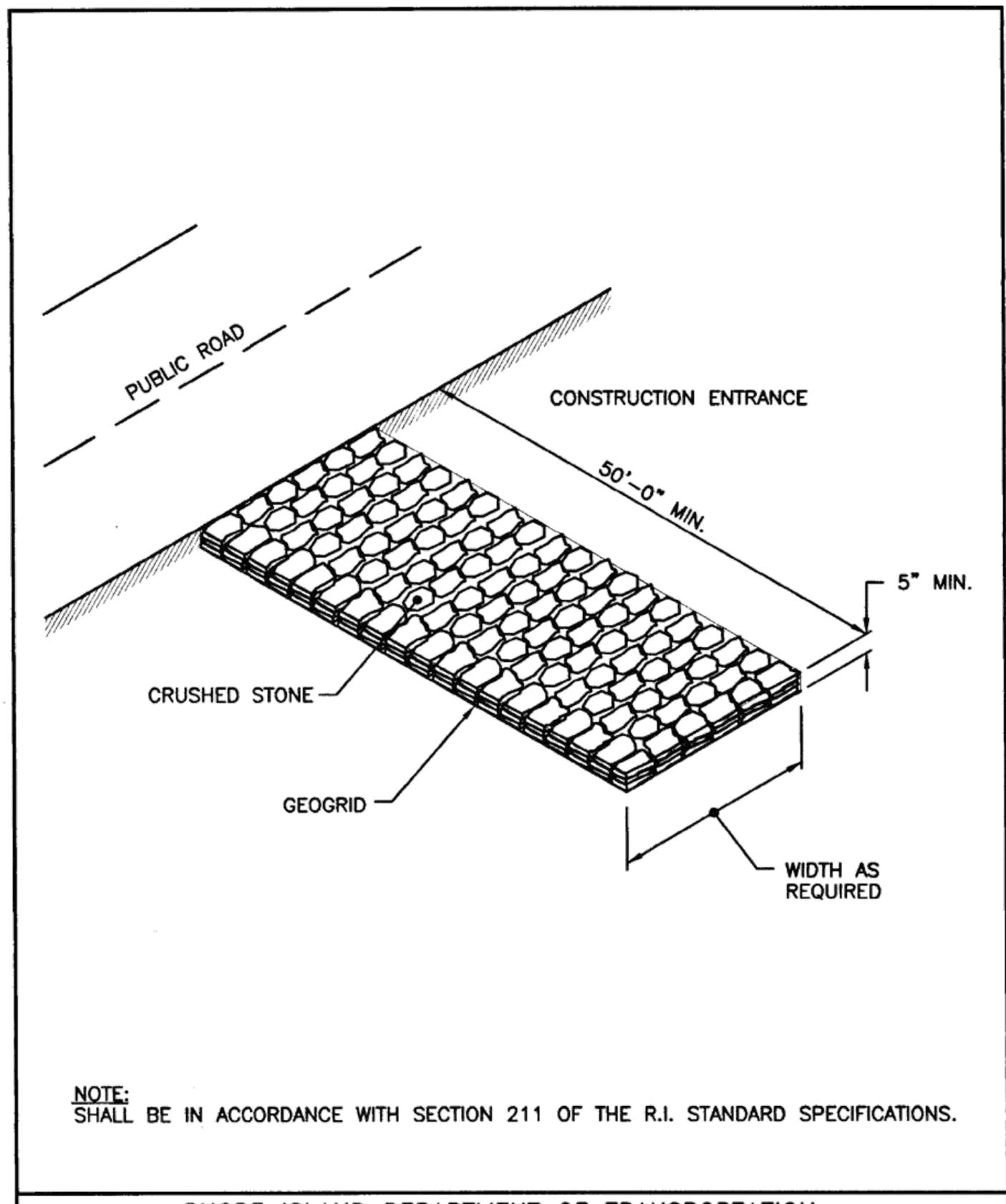
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MANAGEMENT COUNCIL



SEDIMENT AND EROSION PLAN

SCALE: 1"=10'

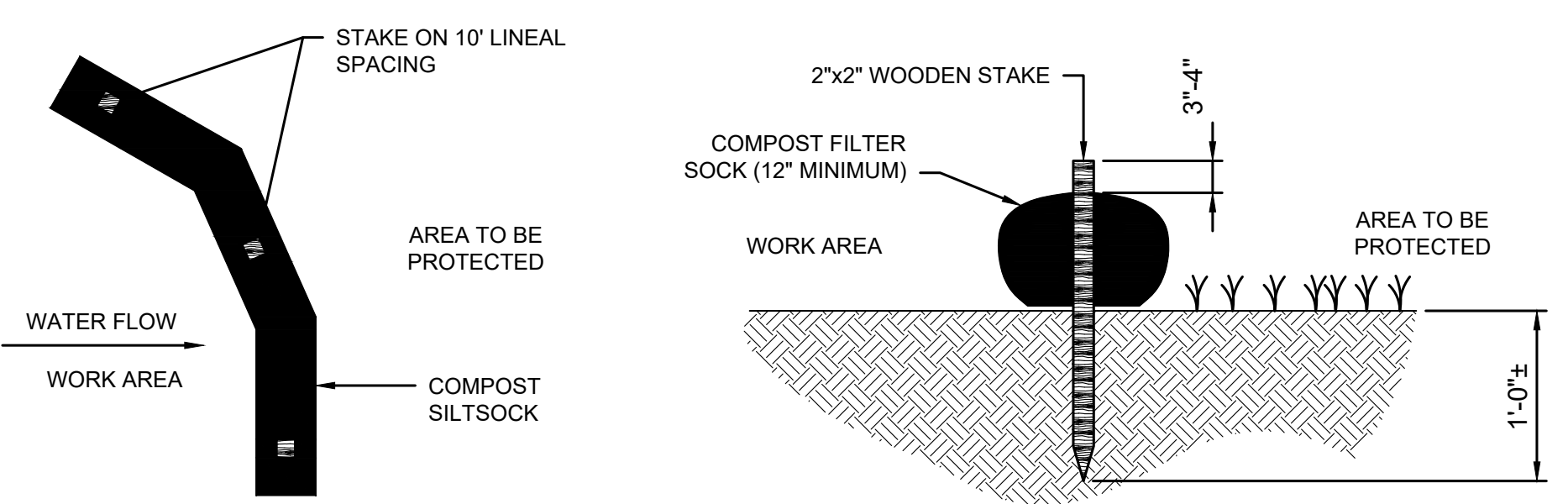
- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL UPDATE THE SESC, AND PERFORM THE REQUIRED INSPECTION AND REPORT KEEPING ACTIVITIES OF THE SESC.
- THE CONTRACTOR SHALL INSTALL EROSION CONTROLS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL VIA ON-SITE WATER TRUCK OR OTHER APPROVED METHODS.
- THE CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AREAS.
- THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION ENTRANCES (ANTI-TRACK PADS) AT ALL POINTS OF INGRESS AND EGRESS TO THE SITE.
- WATER FROM DEWATERING OPERATIONS SHALL BE PUMPED UPGRADIENT TO A MINIMUM STRAW-BALE ENCLOSURE OR OTHER APPROVED DEVICE. ALL DEWATERING SHOULD BE IN CONFORMANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- CONTRACTOR SHALL CONTAIN AND DISPOSE OF SITE-WASTE CONSISTENT WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
- THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER OR OWNERS REPRESENTATIVES REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
- INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROL FOR REVIEW WITH GENERAL CONTRACTOR AND OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS.
- ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL CONNECTED TO POST-CONSTRUCTION POSITION.
- EXCESS TOPSOIL AND SEDIMENT CAPTURED IN EROSION CONTROL MEASURES SHALL BE STOCKPILED ON SITE AND SEEDDED.
- CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION FENCE.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE WORK AREA HAS BEEN STABILIZED.
- CONTRACTOR SHALL CLEAN DEBRIS AND SOIL FROM ALL CATCH BASINS AND DRAINS AFTER SITE STABILIZATION AND PRIOR TO SITE ACCEPTANCE.



REVISIONS		
NO.	BY	DATE
RHODE ISLAND DEPARTMENT OF TRANSPORTATION CONSTRUCTION ACCESS <i>James P. Gagliardi</i> <i>Edward P. Park</i> <small>CHIEF ENGINEER</small> <small>CHIEF DESIGN ENGINEER</small> JUNE 15, 1998 <small>ISSUE DATE</small>		
R.I. STANDARD 9.9.0		

CONSTRUCTION ENTRANCE

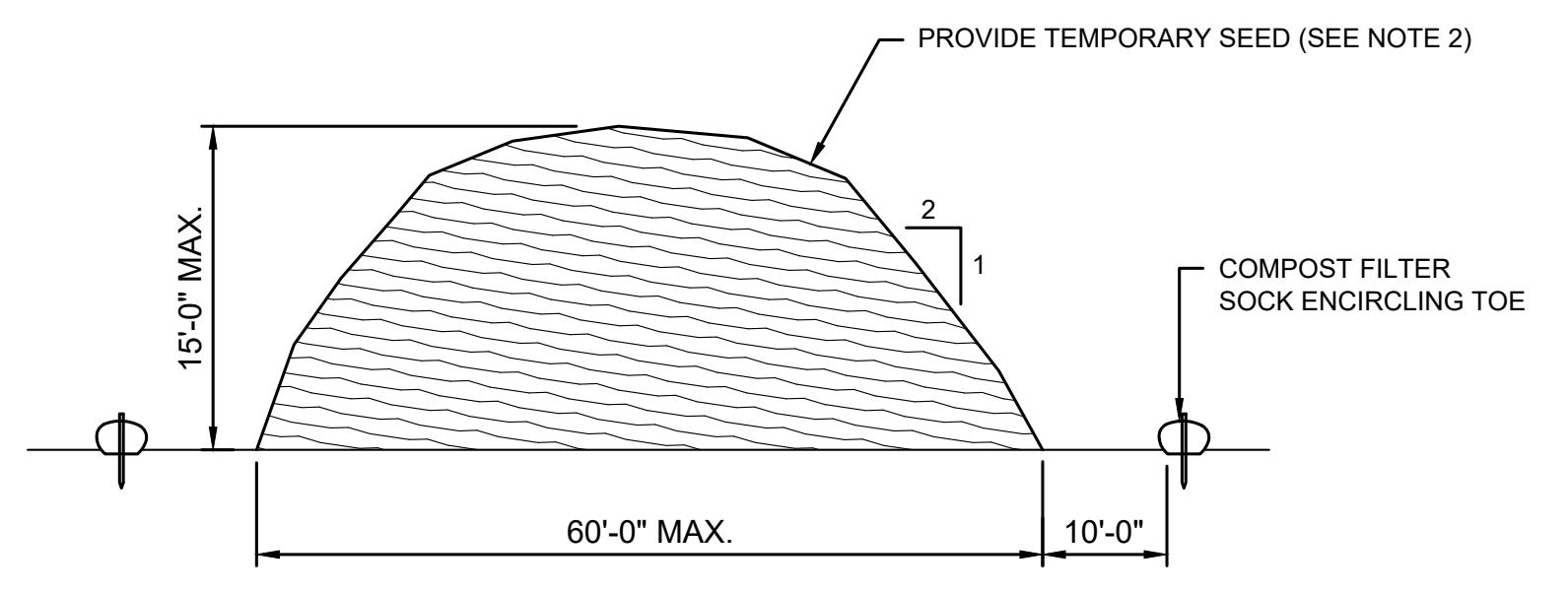
SCALE: NTS



- NOTES:
- COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
 - COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
 - IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY MINIMUM OF 2 FEET.

SEDIMENT BARRIER

SCALE: NTS



- NOTES:
- STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
 - STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE RIDOT STD. M.18.10.5 SEED MIX.

SEDIMENT STOCKPILE

SCALE: NTS

<p>DESIGNED BY: J.MICHAUD CAD COORD.: J.MICHAUD CHECKED BY: J.MICHAUD DATE: 6/23/2023</p> <p>APPROVED BY: [Signature] DATE: 6/23/2023 PROJECT NO.: 13981</p>	<p>APP'D DATE</p> <p>NO. SUBMISSIONS/REVISIONS</p>
<p>CITY OF EAST PROVIDENCE, RHODE ISLAND BOOTH AVENUE SLOPE STABILIZATION</p>	
<p>DRAWING C-7</p>	

THE RECORD DRAWING HAS BEEN PREPARED BY THE DESIGN PROFESSIONAL PERSONNEL AND IS NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN PERMISSION OF THE DESIGN PROFESSIONAL PERSONNEL. THE DESIGN PROFESSIONAL PERSONNEL ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF RECORD INFORMATION PROVIDED. THESE ERRORS OR OMISSIONS SHOULD BE REPORTED TO THE DESIGN PROFESSIONAL PERSONNEL IMMEDIATELY UPON DISCOVERY. THE DESIGN PROFESSIONAL PERSONNEL WILL BE RESPONSIBLE FOR CORRECTING ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF RECORD INFORMATION PROVIDED. THESE ERRORS OR OMISSIONS SHOULD BE REPORTED TO THE DESIGN PROFESSIONAL PERSONNEL IMMEDIATELY UPON DISCOVERY. THE DESIGN PROFESSIONAL PERSONNEL WILL BE RESPONSIBLE FOR CORRECTING ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF RECORD INFORMATION PROVIDED.