

WETLANDS AND SUBAQUEOUS LANDS SECTION PERMIT APPLICATION FORM

**For Subaqueous Lands, Wetlands, Marina and
401 Water Quality Certification Projects**

**State of Delaware
Department of Natural Resources and Environmental Control
Division of Water**

Wetlands and Subaqueous Lands Section



**APPLICATION FOR APPROVAL OF
SUBAQUEOUS LANDS, WETLANDS, MARINA
AND WATER QUALITY CERTIFICATION PROJECTS**

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY**Application Instructions:**

1. Complete each section of this basic application and appropriate appendices as thoroughly and accurately as possible. Incomplete or inaccurate applications will be returned.
2. All applications must be accompanied by a scaled plan view and cross-section view plans that show the location and design details for the proposed project. Full construction plans must be submitted for major projects.
3. All applications must have an original signature page and proof of ownership or permitted land use agreement.
4. Submit an original and two (2) additional copies of the application (total of 3) with the appropriate application fee and public notice fee* (prepared in separate checks) to:

**Department of Natural Resources and Environmental Control
Wetlands and Subaqueous Lands Section
89 Kings Highway
Dover, Delaware 19901**

*Application and public notice fees are non-refundable regardless of the Permit decision or application status.

5. No construction may begin at the project site before written approval has been received from this office.

Helpful Information:

1. Tax Parcel Information:

New Castle County	(302) 395-5400
Kent County	(302) 736-2010
Sussex County	(302) 855-7878
2. Recorder of Deeds:

New Castle County	(302) 571-7550
Kent County	(302) 744-2314
Sussex County	(302) 855-7785
3. A separate application and/or approval may be required through the Army Corps of Engineers. Applicants are strongly encouraged to contact the Corps for a determination of their permitting requirements. For more information, contact the Philadelphia District Regulator of the Day at (215) 656-6728 or visit their website at: <http://www.nap.usace.army.mil/Missions/Regulatory.aspx>.
4. For questions about this application or the Wetlands and Subaqueous Lands Section, contact us at (302) 739-9943 or visit our website at: <http://www.dnrec.delaware.gov/wr/Services/Pages/WetlandsAndSubaqueousLands.aspx>. Office hours are Monday through Friday 8:00 AM to 4:30 PM, except on State Holidays.

APPLICANT'S REVIEW BEFORE MAILING

DID YOU COMPLETE THE FOLLOWING?

- | | | |
|--|-----|--|
| <input checked="" type="checkbox"/> | Yes | BASIC APPLICATION |
| <input checked="" type="checkbox"/> | Yes | SIGNATURE PAGE (Page 3) |
| <input checked="" type="checkbox"/> | Yes | APPLICABLE APPENDICES |
| <input checked="" type="checkbox"/> | Yes | SCALED PLAN VIEW |
| <input checked="" type="checkbox"/> | Yes | SCALED CROSS-SECTION OR ELEVATION VIEW PLANS |
| <input checked="" type="checkbox"/> | Yes | VICINITY MAP |
| <input style="color: red; font-weight: bold; font-style: italic; font-size: 1.2em; vertical-align: middle;" type="checkbox"/> N/A | Yes | COPY OF THE PROPERTY DEED & SURVEY |
| <input style="color: red; font-weight: bold; font-style: italic; font-size: 1.2em; vertical-align: middle;" type="checkbox"/> N/A | Yes | THREE (3) COMPLETE COPIES OF THE APPLICATION PACKET |
| <input style="color: red; font-weight: bold; font-style: italic; font-size: 1.2em; vertical-align: middle;" type="checkbox"/> N/A | Yes | APPROPRIATE APPLICATION FEE & PUBLIC NOTICE FEE
(Separate checks made payable to the State of Delaware) |

Submit 3 complete copies of the application packet to:

**Department of Natural Resources and Environmental Control
Wetlands and Subaqueous Lands Section
89 Kings Highway
Dover, Delaware 19901**

Before signing and mailing your application packet, please read the following:

The Department requests that the contractor or party who will perform the construction of your proposed project, if other than the applicant, sign the application signature page along with the applicant in the spaces provided. When the application is signed by the contractor as well as the applicant, the Department will issue the Permit to both parties. For Leases, the contractor will receive a separate construction authorization that will make them subject to all of the terms and conditions of the Lease relating to the construction

Section 1: Applicant Identification

1. Applicant's Name: Town of Ocean View (Carol Houck, Town Manager)
 Mailing Address: 201 Central Ave, 2nd Floor
Ocean View, DE 19970
2. Consultant's Name: Harry Waddington
 Mailing Address: 800 South Bay Road, Dover DE
3. Contractor's Name: _____
 Mailing Address: _____

Telephone #: 302-539-9797 ext. 104
 Fax #: _____
 E-mail: chouck@oceanviewde.gov

Company Name: DelDOT
 Telephone #: 302-760-2278
 Fax #: _____
 E-mail: harry.waddington@delaware.gov

Company Name: _____
 Telephone #: _____
 Fax #: _____
 E-mail: _____

Section 2: Project Description

4. Check those that apply:
 New Project/addition to existing project? Repair/Replace existing structure? (If checked, must answer #16)

5. Project Purpose (attach additional sheets as necessary):
The purpose of this project is to create a nature trail/boardwalk/signage in the area of Ocean View for general use by the public.

6. Check each Appendix that is enclosed with this application:

<input checked="" type="checkbox"/>	A. Boat Docking Facilities	G. Bulkheads	N. Preliminary Marina Checklist
	B. Boat Ramps	H. Fill	O. Marinas
	C. Road Crossings	I. Rip-Rap Sills and Revetments	P. Stormwater Management
	D. Channel Modifications/Dams	J. Vegetative Stabilization	Q. Ponds and Impoundments
	E. Utility Crossings	K. Jetties, Groins, Breakwaters	R. Maintenance Dredging
	F. Intake or Outfall Structures	<input checked="" type="checkbox"/> M. Activities in State Wetlands	S. New Dredging

Section 3: Project Location

7. Project Site Address:
38.521854, -75.069760

County: N.C. Kent Sussex
 Site owner name (if different from applicant): _____
 Address of site owner: _____

8. Driving Directions: Turn right onto S Bay Rd, Use the right 2 lanes to turn slightly right to stay on S Bay Rd, Merge onto DE-1 S. Follow DE-1 S to Rd 361/Kent Ave. Continue straight onto DE-1 S. Slight right toward Garfield Pkwy, Merge onto Garfield Pkwy, Turn left onto Rd 361/Kent Ave, Destination will be on the left.

(Attach a vicinity map identifying road names and the project location)

9. Tax Parcel ID Number: _____ Subdivision Name: _____

WSLS Use Only:		Permit #s: _____							
Type	SP <input type="checkbox"/>	SL <input type="checkbox"/>	SU <input type="checkbox"/>	WE <input type="checkbox"/>	WQ <input type="checkbox"/>	LA <input type="checkbox"/>	SA <input type="checkbox"/>	MP <input type="checkbox"/>	WA <input type="checkbox"/>
Corps Permit: SPGP 18 <input type="checkbox"/> 20 <input type="checkbox"/> Nationwide Permit #: _____					Individual Permit # _____				
Received Date: _____ Project Scientist: _____									
Fee Received? Yes <input type="checkbox"/> No <input type="checkbox"/> Amt: \$ _____ Receipt #: _____									
Public Notice #: _____ Public Notice Dates: ON <input type="checkbox"/> OFF <input type="checkbox"/>									

Section 3: Project Location (Continued)**No active**10. Name of waterbody at Project Location: water body. waterbody is a tributary to: Jefferson Creek11. Is the waterbody: Tidal Non-tidal Waterbody width at mean low or ordinary high water _____12. Is the project: On public subaqueous lands? On private subaqueous lands?*
In State-regulated wetlands? In Federally-regulated wetlands?

*If the project is on private subaqueous lands, provide the name of the subaqueous lands owner:

Town of Ocean View

(Written permission from the private subaqueous lands owner must be included with this application)

13. Present Zoning: Agricultural Residential Commercial Industrial Other**Section 4: Miscellaneous**14. A. List the names and complete mailing addresses of the immediately adjoining property owners on all sides of the project (attach additional sheets as necessary):

_____B. For wetlands and marina projects, list the names and complete mailing addresses of property owners within a 1,000 foot radius of the project (attach additional sheets as necessary):
See attached sheets.

_____15. Provide the names of DNREC and/or Army Corps of Engineers representatives whom you have discussed the project with:

_____A. Have you had a State Jurisdictional Determination performed on the property? Yes NoB. Has the project been reviewed in a monthly Joint Permit Processing Meeting? Yes No

*If yes, what was the date of the meeting? _____

16. Are there existing structures or fill at the project site in subaqueous lands? Yes No

*If yes, provide the permit and/or lease number(s):

LA-138.24*If no, were structures and/or fill in place prior to 1969? Yes No

17. Have you applied for or obtained a Federal permit from the Army Corps of Engineers?

No Pending Issued Denied Date: _____Type of Permit: NWP 23 Federal Permit or ID #: _____

18. Have you applied for permits from other Sections within DNREC?

 No Pending Issued Denied Date: _____ Permit or ID #: _____

Type of permit (circle all that apply): Septic Well NPDES Storm Water

Other: _____

Section 5: Signature Page

19. Agent Authorization:

If you choose to complete this section, all future correspondence to the Department may be signed by the duly authorized agent. In addition, the agent will become the primary point of contact for all correspondence from the Department.

I do not wish to authorize an agent to act on my behalf

I wish to authorize an agent as indicated below

Authorized Agent's Name: Harry Waddington
Mailing Address: _____
800 S Bay Road Dover, DE 19901

Telephone # 302-760-2278

Telephone #: 802 786 2273
Fax #:

E-mail: _____

20. Agent's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application.

appropriately consider this application.

Agent's Signature

11/21/2025

Date

21. Applicant's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application. I grant permission to authorized Department representatives to enter upon the premises for inspection purposes during working hours.

Carol S Houch
Applicant's Signature
Carol S Houch
Print Name

11/21/25

Date

Print Name

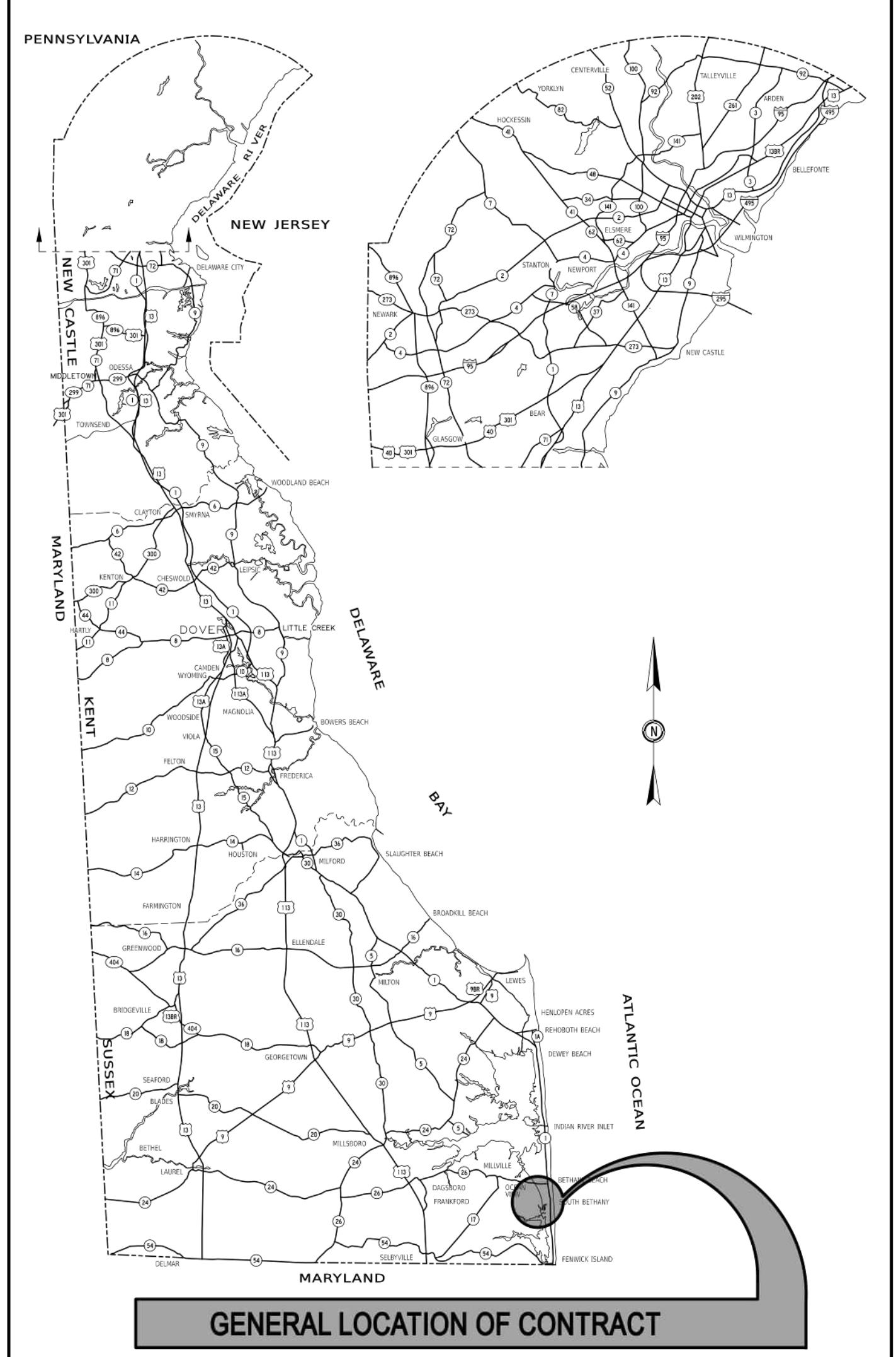
22. Contractor's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge, and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application.

Contractor's Name

Date

Print Name

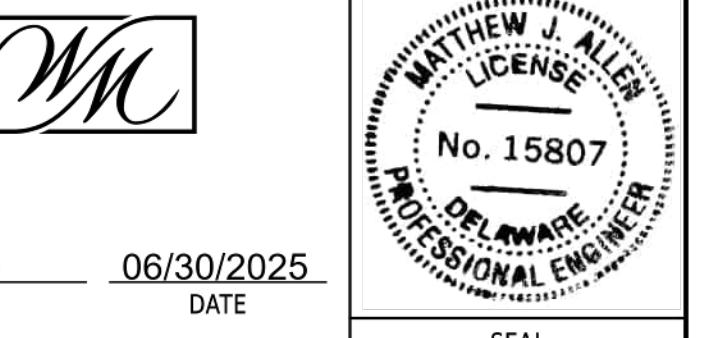


GENERAL LOCATION OF CONTRACT

PREPARED BY
Wallace Montgomery



06/30/2025 DATE

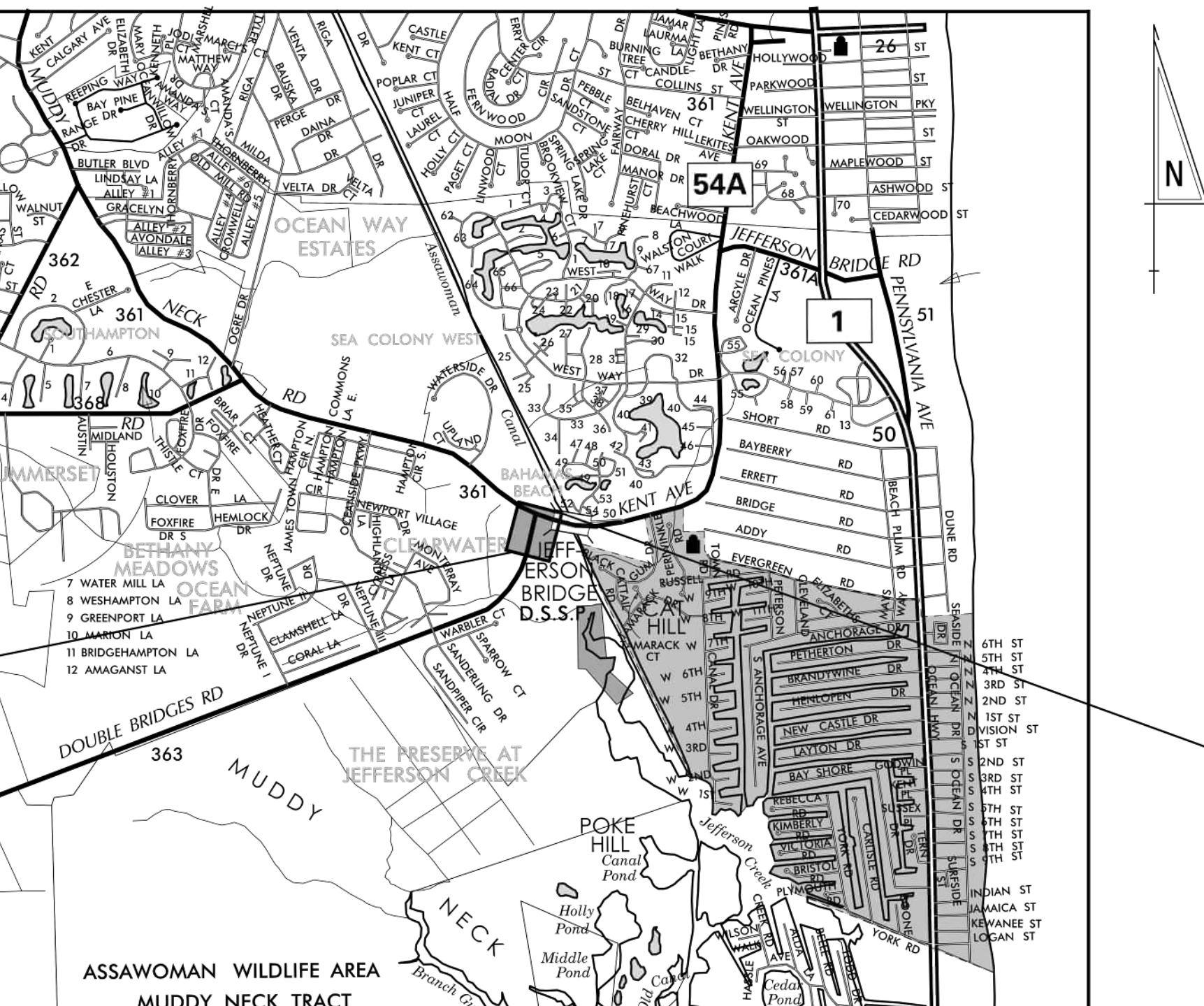

 MATTHEW J. MILLER
LICENSE
No. 15807
DELAWARE
PROFESSIONAL ENGINEER
SEAL

THIS SEAL APPLIES TO ALL SHEETS
BEARING THE "WM" SECTION DESIGNATION.

* I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF
MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.

BEGIN CONTRACT
STATION 11+97

END CONTRACT
STATION 13+67



LOCATION MAP
SCALE: 1" = 1000'

- PARCEL DATA
- PROJECT TAX MAP IDENTIFICATION NUMBER: 134-17.00-30.00
 - PLUS NUMBER: N/A
 - DNREC SEDIMENT AND STORMWATER PROGRAM NUMBER: 302-608-5458
 - SITE ADDRESS: 38588 DOUBLE BRIDGES ROAD, OCEAN VIEW, DE 19970
 - LATITUDE AND LONGITUDE: 38.521978, -75.070538
 - EXISTING SITE AREA: 1 PARCEL
 - PROPOSED SITE AREA/CONDITION: 1 PARCEL
 - EXISTING WETLAND AREA: 3.551.46 SF
 - PROPOSED DISCHARGE LOCATION: N/A
 - PROPOSED TOTAL LIMIT OF DISTURBANCE: 0.84 ACRES
 - HUC10 WATERSHED AND DE HUNDREDS: INLAND BAYS (0204030303), BALTIMORE

OWNER/DEVELOPER CONTACT INFO
KENNETH CIMINO, DIRECTOR - PLANNING, ZONING AND DEVELOPMENT, TOWN OF OCEAN VIEW,
201 CENTRAL AVE, 2ND FLOOR, OCEAN VIEW, DE 19970.
KCIMINO@OCEANVIEWDE.GOV, 302-539-9797

DESIGNER CONTACT INFO
WALLACE MONTGOMERY, 222 S. DUPONT HIGHWAY, SUITE 202, DOVER, DE 19901
JBARBEN@WALLACEMONTGOMERY.COM, 410-494-9093

TOWN OF OCEAN VIEW



U.S. CUSTOMARY
UNITS
FINAL PLANS

CONSTRUCTION PLANS FOR:

BERZINS NATURE PARK & TRAIL

OCEAN VIEW CONTRACT No.: OVPZ&D 26-07

CONTRACT NUMBER:
FEDERAL AID PROJECT NUMBER:

COUNTY: SUSSEX M.R. #: S363, S361

DESIGN DESIGNATION

MRD #: S363	ROAD NAME: DOUBLE BRIDGES ROAD	D.H.V. PROJECTED: 1,969	YEAR: 2025
FUNCTIONAL CLASS: MAJOR COLLECTOR	TYPE OF CONSTRUCTION: TRAIL	DESIGN SPEED: 50 M.P.H.	TRUCKS: N/A
A.A.D.T. CURRENT: 3,217	A.A.D.T. PROJECTED: 3,420	YEAR: 2023	DIRECTION OF DISTRIBUTION: 57.6%
A.A.D.T. CURRENT: 3,735	A.A.D.T. PROJECTED: 3,420	YEAR: 2023	TRUCKS: N/A
A.A.D.T. CURRENT: 3,735	A.A.D.T. PROJECTED: 3,420	YEAR: 2025	DIRECTION OF DISTRIBUTION: 57.6%

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA / REVISIONS

ASSOCIATED CONTRACTS	
CONTRACT NO.	CONTRACT NAME
T201769009	DOUBLE BRIDGES ROAD MULTI-USE TRAIL PHASE 1

APPROVE AS TO PROCESS


DeDel Director of Planning
07/03/2025 DATE

SEDIMENT AND STORMWATER APPROVAL

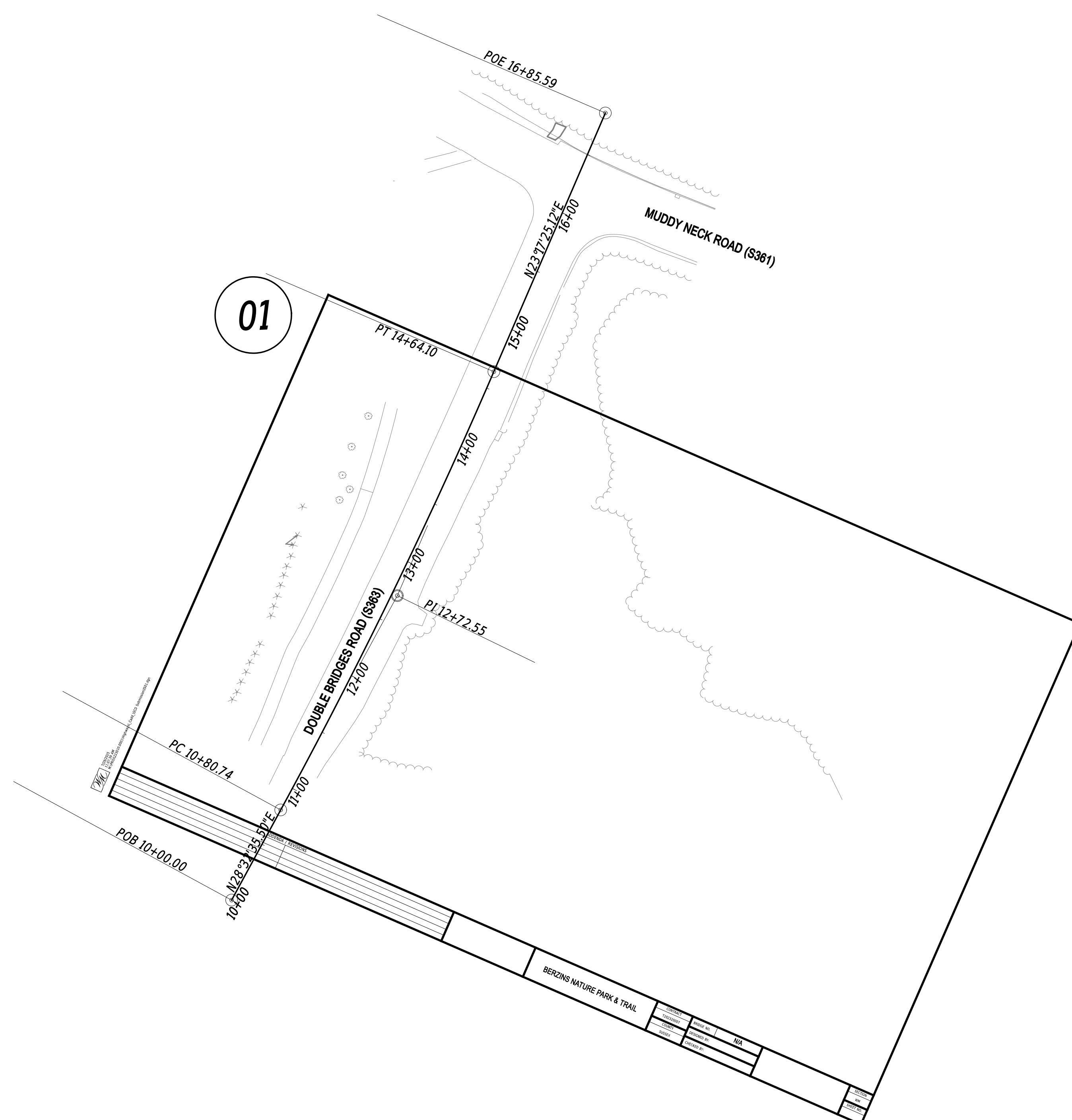
APPROVAL LETTER RECEIVED
09/26/2025
SUSSEX CONSERVATION DISTRICT
DATE

APPROVED FOR ADVERTISEMENT


KENNETH E. CIMINO
TOWN OF OCEAN VIEW
09/12/2025 DATE

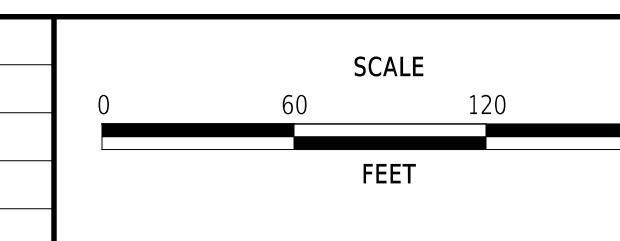
"I, the undersigned, certify that all land clearing, construction, and development should be done pursuant to the approved plan, and that responsible personnel (i.e. crew leaders) involved in the land disturbance will have a certification of training prior to initiation of the project, at a DNR sponsored or approved training course for the control of erosion and sediment during construction. In addition, I grant the DNREC sediment and stormwater program and/or the relevant delegated agency the right to conduct onsite reviews, and I understand my responsibilities under the NPDES construction general permit, as referenced on this cover sheet."

N



INDEX OF SHEETS	
SHEET DESCRIPTION	SHEET NO(S)
TITLE	1
INDEX	2
ADDENDA AND REVISIONS	3
LEGEND	4
PROJECT NOTES	5
TYPICAL SECTIONS	6
HORIZONTAL AND VERTICAL CONTROL	7 - 9
CONSTRUCTION PLANS	10
PROFILES	11 - 12
CROSS SECTIONS	13 - 15
GRADES AND GEOMETRICS	16
CONSTRUCTION PHASING, MOT, AND EROSION CONTROL PLAN	17 - 23
STORMWATER MANAGEMENT PLANS	24
STORMWATER MANAGEMENT DETAILS & NOTES	25
BOARDWALK GENERAL PLAN AND ELEVATION	26
FRAMING AND FOUNDATION PLAN	27
BOARDWALK TYPICAL SECTION	28
SUBSTRUCTURE ELEVATIONS	29
SUBSTRUCTURE DETAILS	30
SIGNAGE DETAILS	31 - 32
ENVIRONMENTAL COMPLIANCE PLAN NOTES	33
ENVIRONMENTAL COMPLIANCE PLAN	34
LANDSCAPE PLAN	35
LANDSCAPE NOTES AND SCHEDULE	36
LIGHTING PLAN	37
SIGNING, STRIPING, AND CONDUIT PLANS	38 - 39

ADDENDA / REVISIONS	



BERZINS NATURE PARK & TRAIL

CONTRACT	BRIDGE NO.	N/A	INDEX OF SHEETS
T20232007			
COUNTY	DESIGNED BY:	M. WILLIAMS	
SUSSEX	CHECKED BY:	S. NICKEL	

ADDENDUM PREPARED BY

WALLACE MONTGOMERY

THIS SEAL APPLIES TO THE FOLLOWING SHEETS
CHANGED UNDER ADDENDUM #X:
XX, XX-XX, XX

DATE

SEAL

REVISION PREPARED BY

WALLACE MONTGOMERY

THIS SEAL APPLIES TO THE FOLLOWING SHEETS
CHANGED UNDER REVISION #X:
XX, XX-XX, XX

DATE

SEAL



ADDENDA / REVISIONS

SCALE NOT NOTED

BERZINS NATURE PARK & TRAIL

CONTRACT

BRIDGE NO.

N/A

T202320007

COUNTY

SUSSEX

DESIGNED BY: M. WILLIAMS

CHECKED BY: M. STEIMER

SECTION

WM

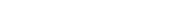
SHEET NO.

3

ADDENDA AND
REVISIONS

MANMADE ROADSIDE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	IMPLEMENTED
BOLLARD - STEEL POLE	◎		
BOLLARD - WOOD POST	✗		
CURB, TYPE 1 AND TYPE 3		—	
CURB, TYPE 2		—	
CURB & GUTTER, TYPE 1		—	
CURB & GUTTER, TYPE 2		—	
CURB & GUTTER, TYPE 3		—	
CURB OPENING - SUMP / ON GRADE		▲ / ▼	
CURB OPENING WITH SIDEWALK		■	
FENCE - CHAINLINK OR STRANDED	—x—	○—○—○—○—○	
FENCE - STOCKADE OR SPLIT RAIL	—○—	●—●—●—●—●	
FLAG POLE	F.P. ⊕		
GUARDRAIL - STEEL BEAM, TYPE 1	□—□—□—□—□	—	
GUARDRAIL - STEEL BEAM, TYPE 2	□—□—□—□—□	—	
GUARDRAIL - STEEL BEAM, TYPE 3	□—□—□—□—□	—	
GUARDRAIL - WIRE ROPE	○—○—○—○—○		
GUARDRAIL - END ANCHORAGE		—	
GUARDRAIL - END TREATMENT, TYPE 1		—	
GUARDRAIL - END TREATMENT, TYPE 2		—	
GUARDRAIL - END TREATMENT, TYPE 3		—	
GUARDRAIL - IMPACT ATTENUATOR		—	
LAMP AND POST - RESIDENTIAL	LAMP ◎		
MAILBOX	MB □	MB ■	
PARKING METER AND POST	P.M. ⊕		
PAVEMENT - FLEXIBLE	— — — — —		
PAVEMENT - RIGID	—		
PILE - BRIDGE	□		
PILLAR OR MISCELLANEOUS POST	○		
TRAFFIC SIGN AND POST	▽	●→	
WALL - BRICK OR BLOCK	□□□□□		
WALL - STONE	○○○○○		

UTILITY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
CABLE TV DISTRIBUTION BOX	TV	
COMMUNICATIONS - UNDERGROUND		
ELECTRIC - UNDERGROUND	E(A)	E
ELECTRIC MANHOLE	(E)	
ELECTRIC METER	EM	
ELECTRIC TRANSFORMER	E	
GAS - UNDERGROUND	G(A)	G
GAS MANHOLE	(G)	
GAS METER	G.M.	
GAS VALVE	G.V.	
GAS PUMP - SERVICE STATION	G.P.	
IRRIGATION - UNDERGROUND	IR(A)	IR
ITMS - UNDERGROUND	ITMS(A)	ITMS
LIGHTING - UNDERGROUND	LI(A)	LI
LUMINAIRE - POLE MOUNTED	—○—	—●—
MANHOLE - UNDETERMINED OWNER	(?)	
RAILROAD TRACKS		
SANITARY - UNDERGROUND	S(A)	S
SANITARY SEWER MANHOLE	(S)	
SANITARY SEWER VALVE	S.V.	
SANITARY SEWER CLEANOUT OR VENT	S.C.O.	
SEPTIC DRAIN FIELD	S.D.F.	
SIGNALIZATION - UNDERGROUND	SIG(A)	SIG
SOIL BORING LOCATION	○	
TELEPHONE BOOTH	B	
TELEPHONE MANHOLE	(T)	
TELEPHONE TEST POINT	T	
TRAFFIC - CONDUIT JUNCTION WELL	J.W.	
TRAFFIC - LIGHT POLE AND BASE	(O)	
TRAFFIC - PEDESTRIAN POLE & BASE	□	□
TRAFFIC - SIGNAL CABINET & BASE	■	■
TRAFFIC - SIGNAL POLE AND BASE	⊗	⊗
UTILITY BOX	U	
UTILITY POLE GUY WIRE ANCHOR	→	→
UTILITY POLE	○	●
UTILITY TEST HOLE LOCATION	○	
WATER - UNDERGROUND	W(A)	W
WATER - FIRE HYDRANT	F.H.	F.H.
WATER METER	W.M.	
WATER VALVE	W.V.	W.V.
WELL HEAD	WELL	

NATURAL ROADSIDE FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
MARSH BOUNDARY LINE		
TREE - CONIFEROUS		
TREE - DECIDUOUS		
TREE STUMP		
SHRUBBERY		
WETLAND BOUNDARY - DELINEATED		
WOODS LINE BOUNDARY		

RIGHT-OF-WAY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
DENIAL OF ACCESS	DA	DA
EASEMENT - OTHERS	EASEMENT TYPE	
PERMANENT EASEMENT	PE	PE
PROPERTY LINE	PL	
PROPERTY MARKER - CONCRETE	C.M. □	
PROPERTY MARKER - IRON PIPE	I.P. ○	◎
RIGHT-OF-WAY BASELINE	100+00 	100+00
RIGHT-OF-WAY LINE	R/W	R/W
RIGHT-OF-WAY & DENIAL OF ACCESS	R/W-DA	R/W-DA
RIGHT-TO-ENTER		RTE
TEMPORARY CONSTRUCTION EASEMENT		TCE

EROSION & SEDIMENT CONTROL

—CFL—	COMPOST FILTER LOG
	COMPOST FILTER LOG / LENGTH
	DEWATERING BAG
	DEWATERING BASIN
ED → → →	EARTH DIKE
	INLET SEDIMENT CONTROL
— — — — —	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
—SF—	SILT FENCE
	REINFORCED SILT FENCE / LENGTH
—RSF—	REINFORCED SILT FENCE
	SUPER SILT FENCE / LENGTH
—SSF—	SUPER SILT FENCE
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
— — — — —	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
—T—	TURBIDITY CURTAIN

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	(AB C)
ABANDON BY OTHERS	(AB O)
ADJUST BY CONTRACTOR	(A C)
ADJUST BY OTHERS	(A O)
BEST MANAGEMENT PRACTICE	(BMP XXXX)
BUS STOP PAD / TYPE	(BSP X)
BUS STOP WITH SHELTER PAD / TYPE	(BSSP X)
CONCRETE SAFETY BARRIER	(B XXX)
CONVERT TO JUNCTION BOX	(CJB XXX)
CONVERT TO DRAINAGE MANHOLE	(CMH XXX)
DO NOT DISTURB	(DND)
ENERGY DISSIPATOR	(ED XXX)
FILL WITH FLOWABLE FILL	(FF C)
LANDSCAPE PLANTINGS	(LS XXX)
PEDESTRIAN CONNECTION / TYPE	(PC XX)
PEDESTRIAN CONNECTION / TYPE WITHOUT DETECTABLE WARNING SYSTEM	(PC-N XXX)
RELOCATE BY CONTRACTOR	(RL C)
RELOCATE BY OTHERS	(RL O)
RELOCATE BY PROPERTY OWNER	(RL PO)
REMOVE BY CONTRACTOR	(RM C)
REMOVE BY OTHERS	(RM O)
REMOVE BY TRAFFIC CONTRACTOR	(RM TC)
RIGHT-OF-WAY MONUMENT	(M XXX)

SURVEY CONTROL & MONUMENTATION	
FEATURE DESCRIPTION	EXISTING
POINT OF CURVATURE OR TANGENCY	◎
POINT OF INTERSECTING TANGENTS	◎
SURVEY BENCHMARK LOCATION	B.M. +
SURVEY NGS POINT LOCATION	◎
SURVEY TIE POINT LOCATION	T.P. +
SURVEY TRAVERSE POINT	△

MISCELLANEOUS FEATURES	
FEATURE DESCRIPTION	PROPOSED
BARRIER, DOUBLE-FACED, PERMANENT	
BARRIER, SINGLE-FACED, PERMANENT, TEST LEVEL 4 / TEST LEVEL 5	
BRICK PATTERNED SURFACE	
BUTT JOINT	
CLEAR ZONE	— CZ —
CONSTRUCTION BASELINE	— 100+00 —
LATERAL OFFSET	— LO —
LIMIT OF CONSTRUCTION	— LOC —
PAVEMENT PATCH	
PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH	
P.C.C. SIDEWALK - 4"	
P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS)	

PAVEMENT SECTION(S)	
OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
DRIVEWAY AND ENTRANCE PAVEMENT - SEE NOTES FOR MATERIALS AND DEPTHS	

DRAINAGE PIPE HEADWALL			
FLARED END SECTION			
RIPRAP - AREA FEATURE			
RIPRAP - LINEAR FEATURE			
SAFETY END SECTION			
UNDERDRAIN			
UNDERDRAIN OUTLET			

ADDENDA / REVISIONS

SCALE NOT NOTED BERZINS NATURE PARK & TRAIL

CONTRACT	BRIDGE NO.	N/A	SECTION
T202320007			WM
COUNTY	DESIGNED BY:	J. NICKEL	SHEET NO
SUSSEX	CHECKED BY:	M. WILLIAMS	4
LEGEND			

GENERAL NOTES

1. **THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED 2024 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2022.**
 2. **ELECTRONIC DESIGN DATA FILES THAT WILL BE MADE AVAILABLE TO THE BIDDERS INCLUDE:**

<input type="checkbox"/>	NONE
<input checked="" type="checkbox"/>	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
<input checked="" type="checkbox"/>	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D TRIANGLES REPRESENTING THE EXISTING SURFACE.
<input type="checkbox"/>	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D FEATURE LINES FOR THE PROPOSED DESIGN. 3D FEATURE LINES ARE FOR THE PROPOSED TOP SURFACE ELEVATION ONLY.

NOTE: THE DOCUMENT ENTITLED "ELECTRONIC FILE SHARING RELEASE" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

NOTE: THERE MAY BE SOME AREAS OF THE PROJECT NOT INCLUDED IN THE ELECTRONIC DESIGN DATA FILE(S). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE DESIGN DATA FILE AND DETERMINE THE LIMITS OF THE PROJECT INCLUDED.

- 3. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:**

<input type="checkbox"/>	<i>CROSS SECTIONS</i>
<input type="checkbox"/>	<i>RIGHT-OF-WAY PLANS</i>

PROJECT NOTES

SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
 2. THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AERIAL VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE UAV, THE FLIGHT TIME, LOCATION OF THE FLIGHT, THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.
 3. NIGHT WORK IS NOT PERMITTED ON THIS PROJECT UNLESS THE CONTRACTOR OBTAINS: APPROVAL FROM THE ENGINEER, ACCEPTABLE RESPONSES ON NIGHT WORK SURVEYS, AND ACCEPTANCE FROM THE MUNICIPALITY. METHOD AND FORMAT OF NIGHT WORK SURVEYS WILL BE PROVIDED BY THE ENGINEER UPON REQUEST. NIGHT WORK, SURVEYS, AND COORDINATION WITH MUNICIPALITIES IS NOT COMPENSABLE AND THE TIME TO COMPLETE THE SURVEYS IS NOT EXCUSABLE."

SECTION 200

4. UNLESS OTHERWISE NOTED AS DO NOT DISTURB OR ADJUST BY CONTRACTOR/OTHERS, ALL EXISTING FEATURES, INCLUDING TREES, WITHIN THE PROPOSED LOC SHALL BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER THE RESPECTIVE BID ITEM. REMOVAL OF EXISTING STORM DRAIN PIPE SHALL BE PAID UNDER ITEM 202000 UNLESS NOTED WITH A FLOWABLE FILL IDENTIFIER, REMOVAL OF TREES AND SHRUBS SHALL BE PAID FOR UNDER 201000, AND REMOVAL OF ADDITIONAL EXISTING FEATURES SHALL BE PAID FOR UNDER ITEM 210000 AS NOTED IN SECTION 200 OF THE PROJECT NOTES.

SECTION 600

5. **PORLTAND CEMENT CONCRETE:**
USE PORTLAND CEMENT CONCRETE FOR CAST-IN-PLACE ELEMENTS AS FOLLOWS:
($f'c = 28$ -DAY COMPRESSIVE STRENGTH)
CLASS B - (INTERPRETIVE GUIDE SIGN FOUNDATIONS), ($f'c = 3.0$ ksi)
 6. **TIMBER:**
ALL TIMBER SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE SELECT STRUCTURAL OR BETTER.
UNLESS OTHERWISE NOTED, ALL TIMBER SHALL BE OF NOMINAL SIZE CROSS SECTION AS INDICATED ON THE PLANS WITH
MINIMUM STRENGTH VALUES OF:
 $F_b = 1000$ PSI
 $F_v = 175$ PSI
 $F - 1,600,000$ PSI

DO NOT DRILL OR CUT NOTCHES IN FRAMING MEMBERS UNLESS DETAILED IN THE STRUCTURAL DRAWINGS.

7. **COMPOSITE DECK BOARD:**
DECK BOARDS SHALL BE CONSTRUCTED, MANUFACTURED AND FABRICATED IN ACCORDANCE WITH ASTM D7032 STANDARD SPECIFICATIONS. COLOR: GREY. CONTRACTOR SHALL PROVIDE A SAMPLE FOR TOWN APPROVAL PRIOR TO ORDERING AND FABRICATION OF MATERIALS.
 8. **RAILING:**
RAILING SYSTEM SHALL BE ALUMINUM. RAILING MANUFACTURER'S STANDARD MECHANICAL FASTENERS AND FITTINGS SHALL BE UTILIZED, PROVIDING FLUSH, SMOOTH, RIGID JOINTS THAT CAN BE REMOVED AND RECONNECTED AFTER INSTALLATION. EXPOSED ENDS OF HOLLOW MEMBERS SHALL BE CLOSED WITH MANUFACTURER'S PREFABRICATED END FITTINGS. CONTRACTOR SHALL SUBMIT RAILING SYSTEM COMPATIBLE WITH DECKING FOR APPROVAL PRIOR TO FABRICATION.
 9. **HARDWARE:**
ALL SCREWS SHALL BE STAINLESS STEEL. ALL OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL. THREADED RODS SHALL CONFORM TO ASTM A307.
 10. **DECK FASTENERS:**
ALL DECK FASTENERS SHALL BE CONFORM TO ASTM D1761. STAINLESS STEEL SCREWS OF LENGTH IN ACCORDANCE WITH COMPOSITE DECKING MANUFACTURER'S WRITTEN RECOMMENDATIONS. MINIMUM LENGTH OF SCREWS SHALL BE 3". EVERY PLANK SHALL BE INSTALLED WITH A MAXIMUM OF 1/8" GAP BETWEEN THE PLANKS, UNLESS NOTED OTHERWISE BY THE MANUFACTURER AND APPROVED BY THE ENGINEER. HIDDEN FASTENERS SHALL BE STAINLESS STEEL DECK CLIPS CAPABLE OF SUPPORTING DECK BOARDS ABOVE STRINGERS.

SECTION 700

- WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM 762001 - SAWCUTTING, CONCRETE, FULL DEPTH.

ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.

PAYMENT FOR THE CONCRETE WASHOUT IS INCIDENTAL TO THE CONTRACT

SECTION 900

- THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

PROVIDE ALL DNREC REQUIRED POST CONSTRUCTION VERIFICATION DOCUMENTATION FOR STORMWATER BEST MANAGEMENT PRACTICES (BMP) TO THE ENGINEER AT THE TIME OF SUBSTANTIAL COMPLETION.

MISC. NOTES

- THE CONTRACTOR SHALL NOTIFY DART FIRST STATE AT DOT_DETOURS@DELAWARE.GOV AT LEAST 14 DAYS PRIOR TO THE START OF ANY DETOURS OR CONSTRUCTION, AND DOT DTC PROJECTDEVELOPMENT@DELAWARE.GOV AT SUCH TIME THE FACILITY IS COMPLETED AND OPERABLE FOR TRANSIT OPERATIONS. FOR EMERGENCY DETOUR INFORMATION ONLY, PLEASE CONTACT DTC'S CHIEF SCHEDULER AT 302-576-6019.

ANY STAGING AND/OR STOCKPILE AREA(S) OUTSIDE THE PROJECT'S LIMIT OF CONSTRUCTION (LOC) THAT INDIVIDUALLY OR CUMULATIVELY ARE LARGER THAN 10,000 SQUARE FEET, MUST BE APPROVED BY DELDOT'S ARCHAEOLOGIST. CONTACT THE CONSTRUCTION AREA ENGINEER WHO WILL COORDINATE WITH DELDOT'S ARCHAEOLOGIST.

WITHIN 30 DAYS, DELDOT WILL;

 - 1) APPROVE THE USE OF THE PROPOSED STAGING AND STOCKPILE AREA(S);
 - 2) REJECT THE REQUEST; OR
 - 3) PERFORM AN ARCHAEOLOGICAL SURVEY TO DETERMINE WHETHER TO APPROVE OR REJECT THE REQUEST, WHICH MAY TAKE UP TO 3 MONTHS. IF AN ARCHAEOLOGICAL SURVEY IS NECESSARY, DELDOT OR A CONSULTANT ON ITS BEHALF WILL UNDERTAKE THE SURVEY.

DESIGN SPECIFICATIONS:

(A) DELDOT BRIDGE DESIGN MANUAL, 2023 EDITION.

(B) AASHTO LRFD BRIDGE SPECIFICATIONS, 2020, 9TH EDITION, CUSTOMARY U.S. UNITS.

(C) AASHTO LRFS GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, SECOND EDITION WITH 2015 INTERIM REVISIONS.

PEDESTRIAN LOADING = 90 PSF

LIGHTING NOTES

1. ALL GROUND WIRE CONNECTIONS TO GROUND RODS SHALL BE COMPLETED USING EXOTHERMIC WELDS.
 2. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ON THE LOCATIONS OF ALL CONDUIT, JUNCTION WELLS, POLE BASES, AND EQUIPMENT BASES TO ELIMINATE CONSTRUCTION CONFLICTS. THE CONTRACTOR SHALL STAKE ALL PROPOSED EQUIPMENT LOCATIONS FOR APPROVAL BY THE ENGINEER BEFORE INSTALLATION.
 3. COLOR CODING SHALL BE PROVIDED THROUGHOUT THE ENTIRE NETWORK FOR SERVICE, FEEDER, BRANCH, AND CONTROL CONDUCTORS. EACH PHASE SHALL BE AN INDEPENDENT COLOR. CONDUCTORS SHALL HAVE FACTORY IMPREGNATED COLOR THROUGHOUT THEIR ENTIRE LENGTH.
 4. ALL FUSED CONNECTIONS SHALL BE MADE IN THE POLE BASE. SPLICES IN JUNCTION BOXES OR PULL BOXES SHALL NOT BE FUSED. ALL CONDUITS SHALL BE BONDED IN A CONTINUOUS RUN FROM THE SOURCE BY A COPPER GROUNDING CONDUCTOR WITH SIZE AS NOTED ON PLANS. 10 FEET OF ADDITIONAL SLACK FOR EACH GROUND WIRE IN EACH JUNCTION WELL SHALL BE PROVIDED AND NEATLY COILED.
 5. ALL PROPOSED CONDUITS (SERVICE RUNS) SHALL BE RIGID POLYVINYL CHLORIDE SCHEDULE 80 WHEN INSTALLED BY TRENCHING AND SDR-13.5 HDPE WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED ON PLANS.
 6. SPLICES FOR ALL ROADWAY LIGHTING ELECTRICAL CABLES SHALL BE COMPLETED USING APPROVED SPLICE KITS OR METHODS APPROVED BY THE ENGINEER AND SHALL BE INCIDENTAL TO THE SUPPLY AND INSTALLATION OF THE VARIOUS ROADWAY LIGHTING ELECTRICAL CABLES.
 7. (1) 3/4" DIAMETER BY 10' LONG GROUND ROD SHALL BE INSTALLED AT EACH LIGHTING STANDARD POLE BASE. (1) 3/4" DIAMETER BY 10' LONG GROUND ROD SHALL BE INSTALLED IN THE JUNCTION WELL CLOSEST TO THE LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE AND THE BARE COPPER GROUNDING CONDUCTORS FOR EACH RUN OF CIRCUITS SHALL BE CONNECTED TO THE GROUND ROD.
 8. (1) 3/4" DIAMETER BY 10' LONG GROUND ROD SHALL BE INSTALLED AT THE LIGHTING CONTROL CONTROL AND DISTRIBUTION ENCLOSURE WHICH SHALL BE BONDED TO THE GROUND ROD IN THE JUNCTION WELL CLOSEST TO THE LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE. (1) 3/4" BY 10' LONG GROUND ROD SHALL BE INSTALLED AT THE ELECTRICAL SERVICE PEDESTAL. GROUND RODS SHALL BE SEPARATED BY A MINIMUM OF 6 FEET.
 9. ALL PROPOSED ROADWAY LIGHTING CONDUITS (SERVICE RUNS) SHALL BE SEALED WITH A DUCT SEAL/WATER BLOCK FOAM (POLYWATER FST OR APPROVED EQUAL). SEALING LIGHTING CONDUITS WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO THE PERTINENT FURNISH AND INSTALL ELECTRICAL CABLE ITEMS.
 10. SERVICE RUNS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL LOCATE THE SERVICE RUNS IN A MANNER THAT AVOIDS CONFLICTS WITH ALL EXISTING AND PROPOSED FEATURES AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ENGINEER.

EARTHWORK SUMMARY

EARTHWORK SUMMARY	
EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	904 C.Y.
ROCK EXCAVATION FOR ROADWAY AND TRENCHES	0 C.Y.
TOPSOIL STRIPPING	0 C.Y.
TOTAL EXCAVATION	904 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	0 C.Y.
EXCAVATION MEETING BORROW TYPE 'F'	0 C.Y.
EXCAVATION MEETING TOPSOIL	0 C.Y.
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'C' REQUIRED (INCLUDING UNDERCUT)	1,240 C.Y.
BORROW TYPE 'F' REQUIRED	92 C.Y.
TOPSOIL REQUIRED	167 C.Y.
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'C'	-1,240 C.Y.
BORROW TYPE 'F'	-92 C.Y.
TOPSOIL	-167 C.Y.
UNSUITABLE MATERIAL	+904 C.Y.
NOTES:	
1)	THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.
2)	OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.
3)	UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.

ES-

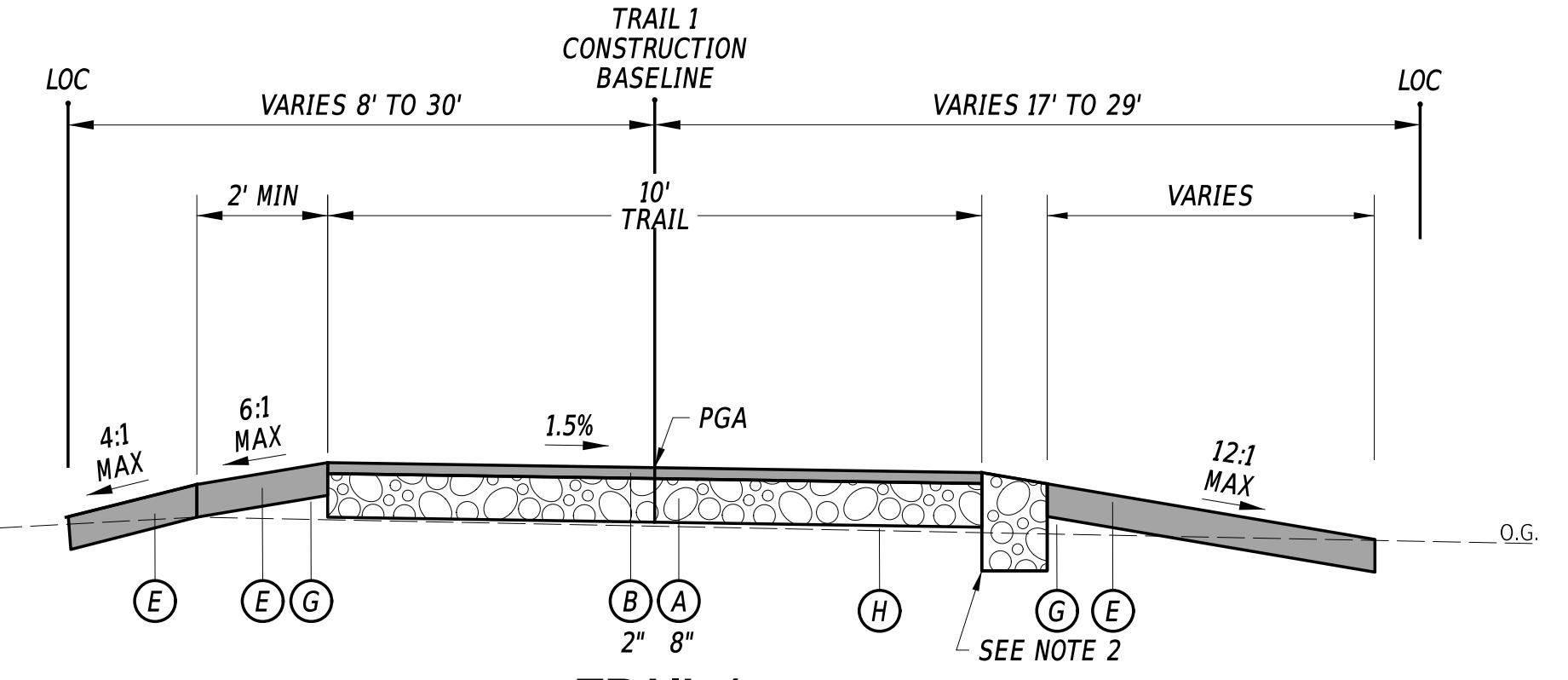
- THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.

OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.

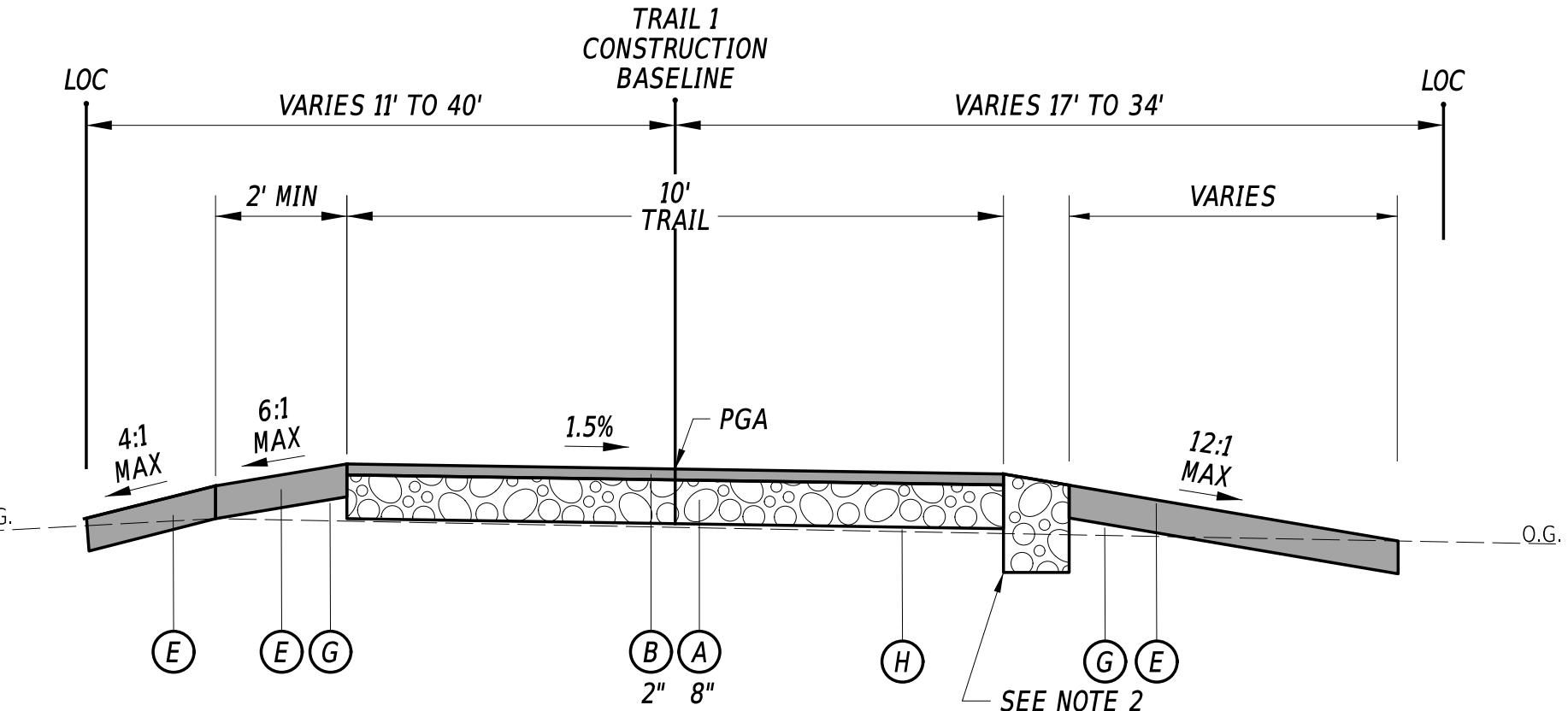
UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.

LEGEND

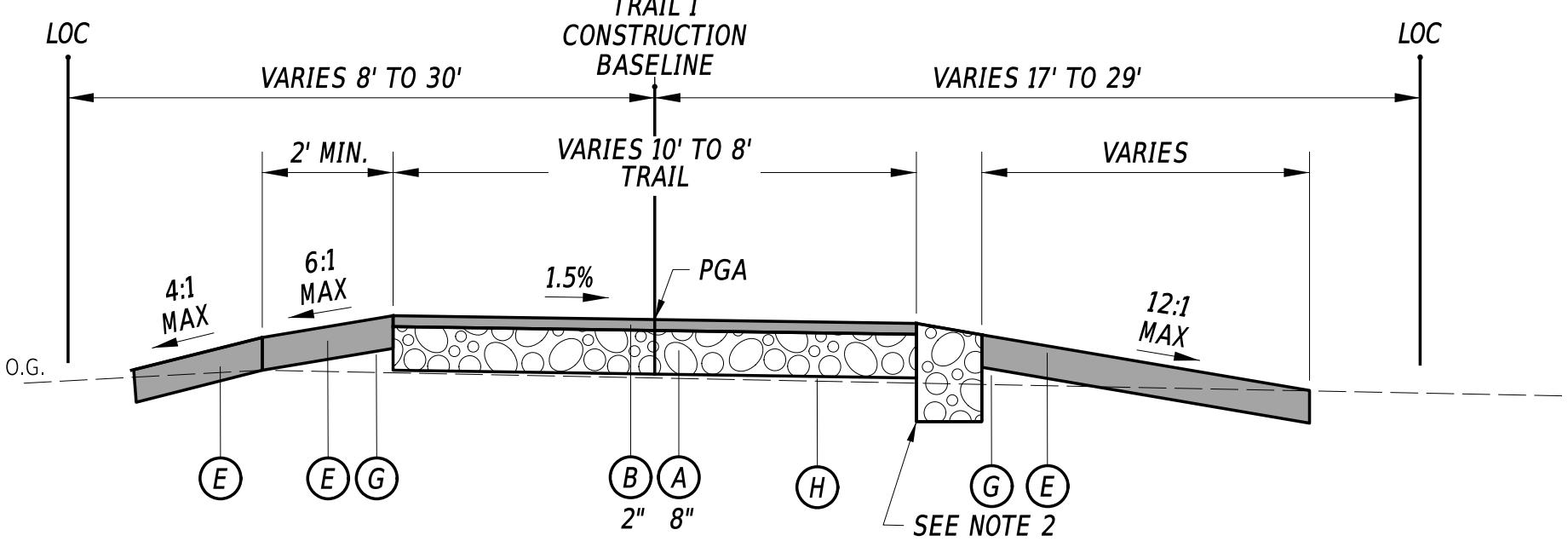
- (A) ITEM 301001 - GRADED AGGREGATE BASE COURSE
- (B) ITEM 401005 - SUPERPAVE TYPE C, 9.5 mm, PG 64-22 (CARBONATE STONE)
- (C) ITEM 701013 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-8
- (D) ITEM 705001 - PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- (E) ITEM 908004 - TOPSOIL, 6" DEPTH
- (F) ITEM 908500 - PERMANENT SEEDING
- (G) ITEM 908020 - EROSION CONTROL BLANKET MULCH
- (H) ITEM 607012 - CONCRETE MASONRY UNIT MODULAR BLOCK RETAINING WALLS
- (I) ITEM 209006 - BORROW, TYPE F
- (J) ITEM 207021 - STRUCTURAL BACKFILL, BORROW TYPE C
- (K) ITEM 401014 - SUPERPAVE TYPE B, PG 64-22
- (L) ITEM 401021 - SUPERPAVE TYPE BCBC, PG 64-22



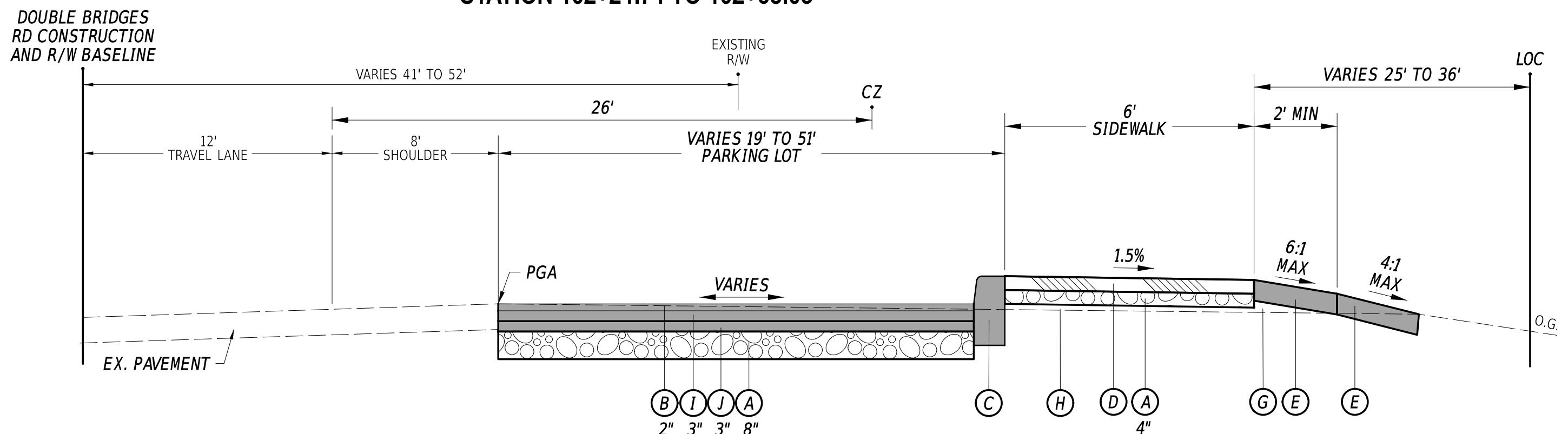
TRAIL 1
STATION 100+00 TO 102+24.74



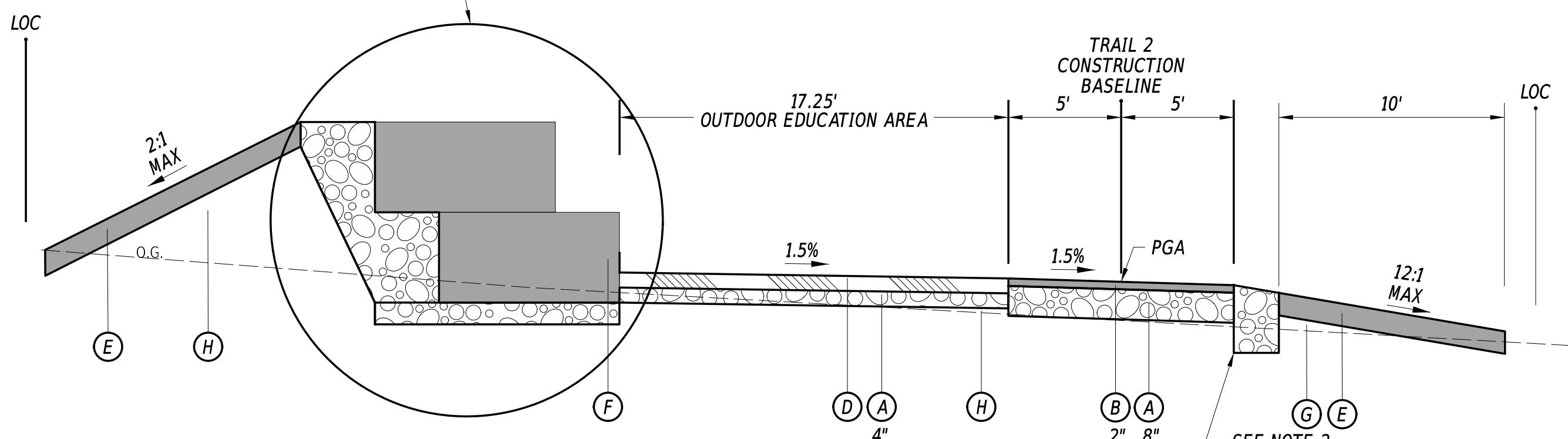
TRAIL 2
STATION 200+00.00 TO 201+59.91



TRAIL 1
STATION 102+24.74 TO 102+68.03



PARKING LOT & SIDEWALK
STATION 11+97.32 TO 13+05.56

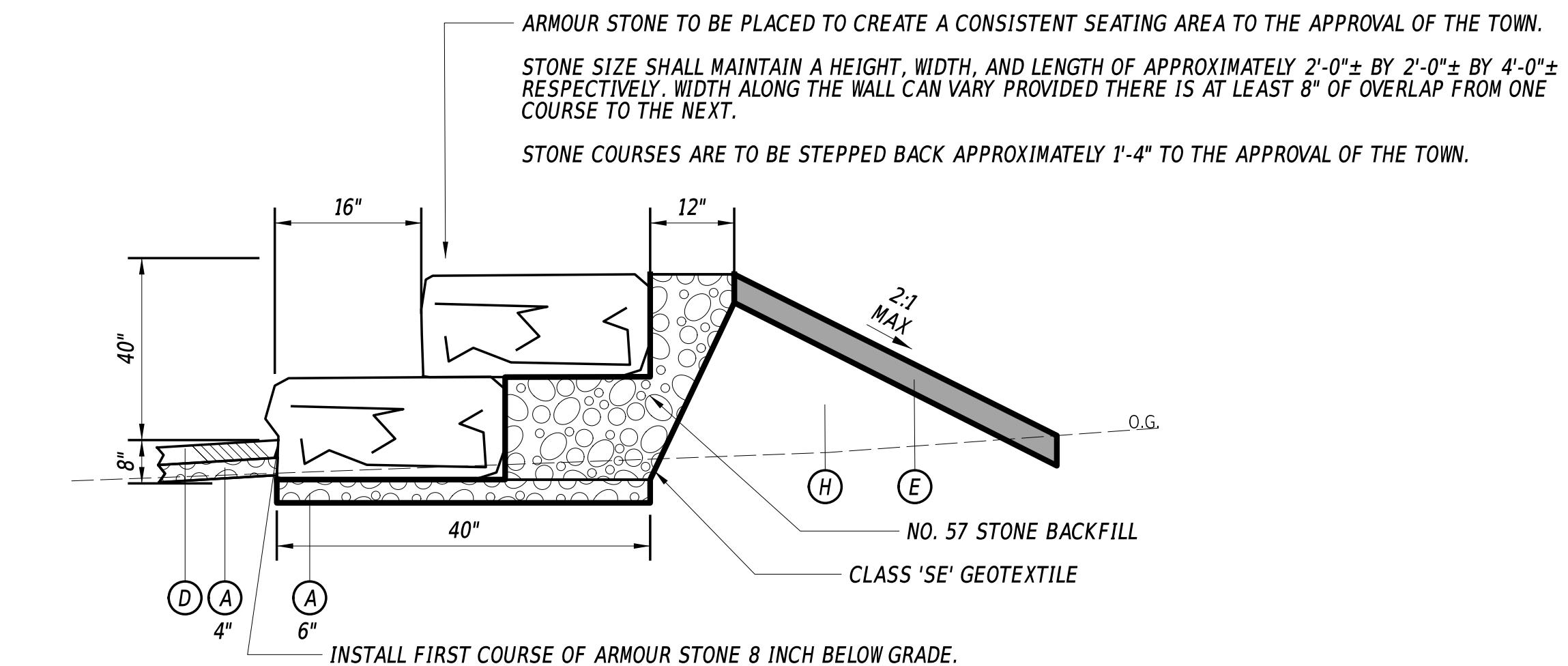


OUTDOOR EDUCATION AREA
STATION 201+00

MATERIAL	BINDER GRADE	LIFT THICKNESS	
		MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C' (9.5 mm MIX)	ALL	1.25"	2"
BITUMINOUS CONCRETE, TYPE 'B' (19 mm MIX)	64-22	2.25"	6"
BITUMINOUS CONCRETE BASE COURSE (25 mm MIX)	64-22	3"	6"
GRADED AGGREGATE BASE COURSE	ALL	4"	8"

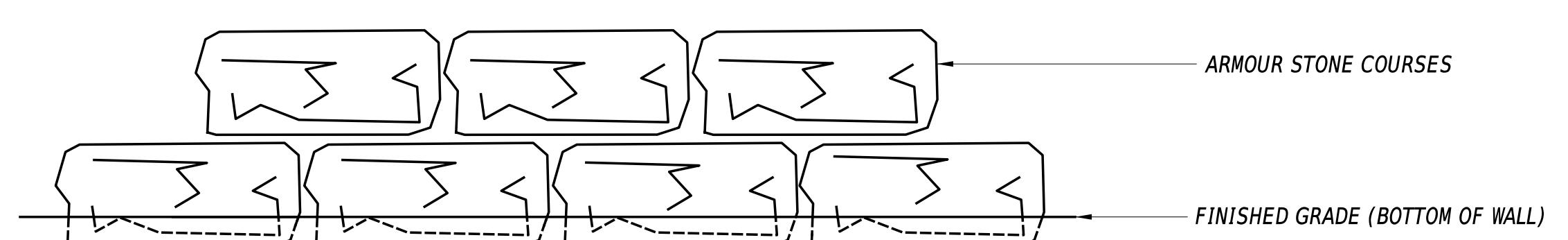
NOTES:

- ITEM 207061 - STRUCTURAL BACKFILL, (BORROW TYPE C) TO BE USED UNDERNEATH PARKING LOT, SIDEWALK, AND TRAIL FOOTPRINT WHERE FILL IS NEEDED.
- SEE SWM DETAILS FOR GRAVEL DIAPHRAGM MATERIALS AND DIMENSIONS.



OUTDOOR EDUCATION AREA WALL/SEATING DETAIL
SIDE PROFILE

- NOTES:
- AS INDICATED ABOVE, STONES SHALL BE LARGE INTRICATED ARMOR TYPE STONES WITH NATURAL EDGES AND SURFACE SUITABLE FOR A NATURAL LOOK BUT ALSO MAINTAINING A LEVEL AND EVEN APPEARANCE SUITABLE FOR SEATING. COLOR IS TO BE WHITE AND GRAY WITH MINIMAL BROWNS TO THE APPROVAL OF THE TOWN.
 - ALL JOINTS TO BE TIGHT-FITTED WITH NO GAPS EXCEEDING 2 INCH.
 - CONTRACTOR TO USE TAPERED CORNER ARMOUR STONE IN CORNERS OF OUTDOOR EDUCATION SEATING AREA.
 - CONTRACTOR TO INSTALL ARMOUR STONES PER MANUFACTURERS SPECIFICATIONS.



OUTDOOR EDUCATION AREA WALL/SEATING DETAIL
FRONT ELEVATION

ADDENDA / REVISIONS

NOT TO SCALE

BERZINS NATURE PARK & TRAIL

CONTRACT

T20232007

COUNTY

SUSSEX

BRIDGE NO.

N/A

DESIGNED BY:

A. FREELAND

CHECKED BY:

M. WILLIAMS

SECTION

WM

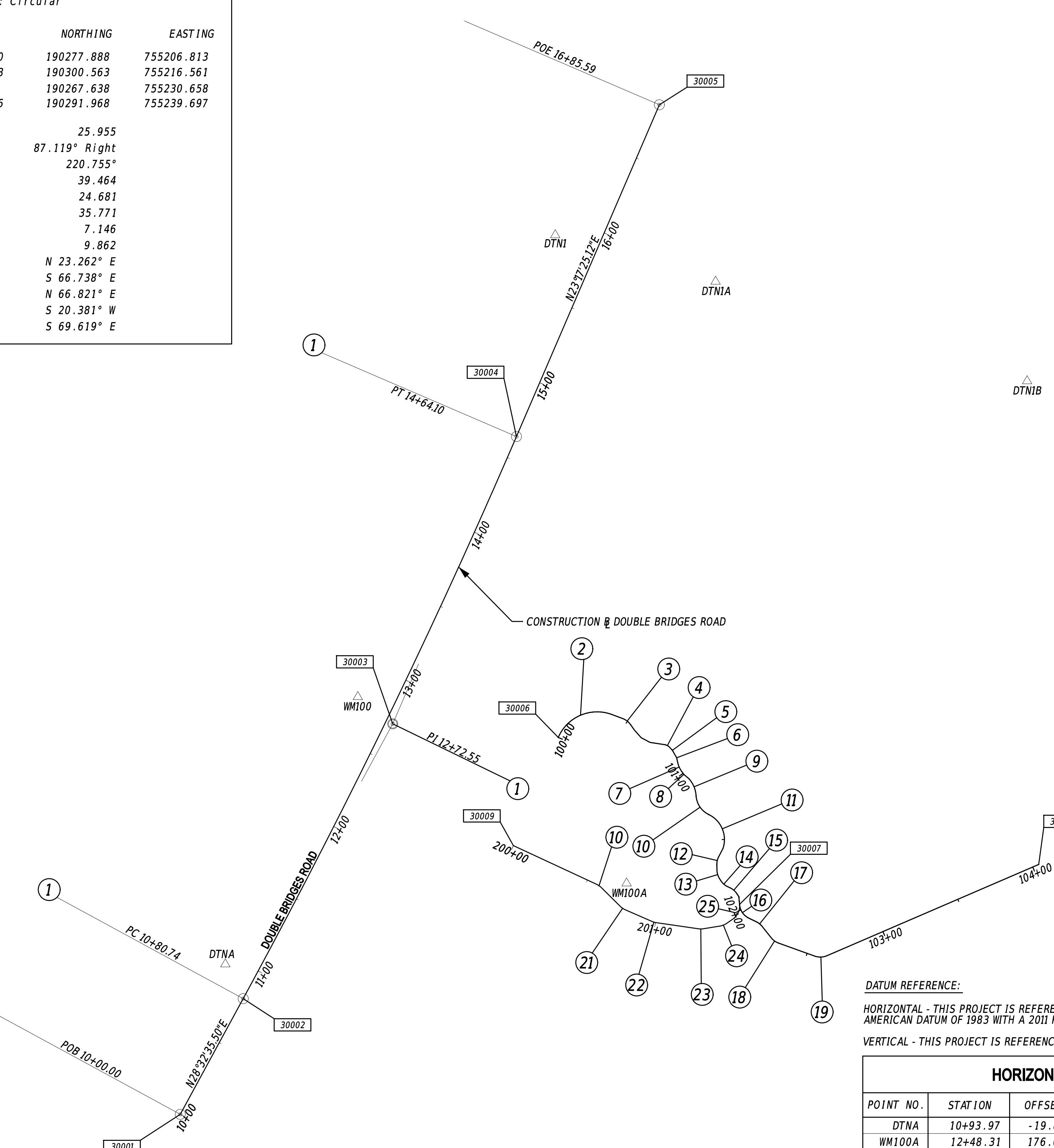
SHEET NO.

6

CIRCULAR CURVE NO. (1)					
Element: Circular					
	STATION	NORTHING	EASTING		
PC	(30002)	10+80.74	190117.7293	755013.7089	
HPI	(30003)	12+72.55	190286.2311	755105.3625	
CC	(XXXXXX)		192115.750	751340.419	
PT	(30004)	14+64.10	190462.4164	755181.2046	
Radius:	4181.524				
Delta:	5.253° Left				
Degree of Curvature (Arc):	1.370°				
Length:	383.363				
Tangent:	191.816				
Chord:	383.228				
Middle Ordinate:	4.393				
External:	4.397				
Tangent Direction:	N 28.543° E				
Radial Direction:	S 61.457° E				
Chord Direction:	N 25.917° E				
Radial Direction:	S 66.710° E				
Tangent Direction:	N 23.290° E				

CIRCULAR CURVE NO. (2)					
Element: Circular					
	STATION	NORTHING	EASTING		
PC	(XXXXXX)	100+00.00	190277.888	755206.813	
HPI	(XXXXXX)	100+24.68	190300.563	755216.561	
CC	(XXXXXX)		190267.638	755230.658	
PCC	(XXXXXX)	100+39.46	190291.968	755239.697	
Radius:	25.955				
Delta:	87.119° Right				
Degree of Curvature (Arc):	220.755°				
Length:	39.464				
Tangent:	24.681				
Chord:	35.771				
Middle Ordinate:	7.146				
External:	9.862				
Tangent Direction:	N 23.262° E				
Radial Direction:	S 66.738° E				
Chord Direction:	N 66.821° E				
Radial Direction:	S 20.381° W				
Tangent Direction:	S 69.619° E				

CIRCULAR CURVE NO. (3)					
Element: Circular					
	STATION	NORTHING	EASTING		
PC	(XXXXXX)	100+46.58	190289.488	755246.371	
HPI	(XXXXXX)	100+49.77	190288.379	755249.357	
CC	(XXXXXX)		190280.114	755242.888	
PT	(XXXXXX)	100+51.38	190285.748	755251.151	
Radius:	10				
Delta:	35.333° Right				
Degree of Curvature (Arc):	212.958°				
Length:	6.167				
Tangent:	3.185				
Chord:	6.069				
Middle Ordinate:	0.472				
External:	0.495				
Tangent Direction:	S 69.619° E				
Radial Direction:	S 20.381° W				
Chord Direction:	S 51.953° E				
Radial Direction:	S 55.713° W				
Tangent Direction:	S 34.287° E				



CONSTRUCTION ALIGNMENT CONTROL					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	
30001	10+00.00	0.0000	190046.8042	754975.1305	
30002	10+80.74	0.0000	190117.7293	755013.7089	
30003	12+72.55	0.0000	190286.2311	755105.3625	
30004	14+64.10	0.0000	190462.4164	755181.2046	
30005	16+85.59	0.0000	190665.8603	755268.7806	
30006	100+00.00	0.0000	190277.8883	755206.8133	
30007	101+95.78	0.0000	190175.5529	755317.9602	
30008	104+06.28	0.0000	190200.0038	755501.2880	
30009	200+00.00	0.0000	190211.7060	755180.2454	

ADDENDA / REVISIONS

SCALE
0 40 80 120
FEET

BERZINS NATURE PARK & TRAIL

HORIZONTAL / VERTICAL CONTROL DATA						
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.	DESCRIPTION
DTNA	10+93.97	-19.86	190138.8432	755002.7675	2.630	R&C
WM100A	12+48.31	176.09	190188.4821	755248.6722	2.752	R&C
WM100	12+77.95	-22.04	190302.7324	755083.9893	4.349	R&C
DTN1	15+86.40	-28.16	190585.9760	755204.9765	7.940	R&C
DTN1A	15+99.09	74.51	190597.4920	755303.2489	11.401	R&C
DTN1B	16+18.50	274.02	190496.4347	755494.1757	15.009	R&C

NOTE: NEGATIVE VALUE INDICATES LEFT OF BASELINE

CONTRACT	BRIDGE NO.	N/A
T202320007		
DESIGNED BY:	J. NICKEL	
COUNTY		
SUSSEX		
SUSSEX	CHECKED BY:	M. WILLIAMS

HORIZONTAL AND VERTICAL CONTROL

SECTION
WM
SHEET NO.
7

CIRCULAR CURVE NO. (4)						
Element: Circular						
	STATION	NORTHING	EASTING			
PC (XXXXX)	100+78.34	190273.443	755272.126			
HPI (XXXXX)	100+80.06	190273.174	755273.828			
CC (XXXXX)		190268.505	755271.345			
PT (XXXXX)	100+81.66	190271.913	755275.003			
Radius:	5					
Delta:	38.033° Right					
Degree of Curvature (Arc):	65.916°					
Length:	3.319					
Tangent:	1.723					
Chord:	3.258					
Middle Ordinate:	0.273					
External:	0.289					
Tangent Direction:	S 81.013° E					
Radial Direction:	S 8.987° W					
Chord Direction:	S 61.996° E					
Radial Direction:	S 47.020° W					
Tangent Direction:	S 42.980° E					

CIRCULAR CURVE NO. (5)						
Element: Circular						
	STATION	NORTHING	EASTING			
PC (XXXXX)	100+83.69	190270.424	755276.391			
HPI (XXXXX)	100+84.27	190270.001	755276.784			
CC (XXXXX)		190267.015	755272.733			
PT (XXXXX)	100+84.84	190269.500	755277.071			
Radius:	5					
Delta:	13.173° Right					
Degree of Curvature (Arc):	65.916°					
Length:	1.150					
Tangent:	0.577					
Chord:	1.147					
Middle Ordinate:	0.033					
External:	0.033					
Tangent Direction:	S 42.980° E					
Radial Direction:	S 47.020° W					
Chord Direction:	S 20.776° E					
Radial Direction:	S 78.254° W					
Tangent Direction:	S 29.807° E					

CIRCULAR CURVE NO. (6)						
Element: Circular						
	STATION	NORTHING	EASTING			
PC (XXXXX)	100+88.76	190266.099	755279.020			
HPI (XXXXX)	100+89.56	190265.410	755279.415			
CC (XXXXX)		190263.614	755274.681			
PT (XXXXX)	100+90.34	190264.632	755279.576			
Radius:	5					
Delta:	18.061° Right					
Degree of Curvature (Arc):	65.916°					
Length:	1.576					
Tangent:	0.795					
Chord:	1.570					
Middle Ordinate:	0.062					
External:	0.063					
Tangent Direction:	S 29.807° E					
Radial Direction:	S 60.193° W					
Chord Direction:	S 20.776° E					
Radial Direction:	S 78.254° W					
Tangent Direction:	S 11.746° E					

CIRCULAR CURVE NO. (7)						
Element: Circular						
	STATION	NORTHING	EASTING			
PC (XXXXX)	100+92.27	190262.742	755279.969			
HPI (XXXXX)	100+95.44	190259.638	755280.615			
CC (XXXXX)		190265.796	755294.655			
PT (XXXXX)	100+98.52	190257.061	755282.461			
Radius:	15					
Delta:	23.869° Left					
Degree of Curvature (Arc):	21.972°					
Length:	6.249					
Tangent:	3.17					
Chord:	6.204					
Middle Ordinate:	0.324					
External:	0.331					
Tangent Direction:	S 11.746° E					
Radial Direction:	S 78.254° W					
Chord Direction:	S 23.681° E					
Radial Direction:	S 54.385° W					
Tangent Direction:	S 35.615° E					

CIRCULAR CURVE NO. (8)						
Element: Circular						
	STATION	NORTHING	EASTING			
PC (XXXXX)	101+00.12	190255.755	755283.397			
HPI (XXXXX)	101+00.75	190255.245	755283.759			
CC (XXXXX)		190258.689	755294.655			
PT (XXXXX)	101+01.37	190254.838	755284.235			
Radius:	5.066					
Delta:	14.085° Left					
Degree of Curvature (Arc):	51.093°					
Length:	1.245					
Tangent:	0.626					
Chord:	1.242					
Middle Ordinate:	0.038					
External:	0.039					
Tangent Direction:	S 35.400° E					
Radial Direction:	S 54.600° W					
Chord Direction:	S 42.442° E					
Radial Direction:	S 40.515° W					
Tangent Direction:	S 49.485° E					

CIRCULAR CURVE NO. (9)						
Element: Circular						
	STATION	NORTHING	EASTING			
PC (XXXXX)	101+04.87	190252.560	755286.900			
HPI (XXXXX)	101+11.02	190248.029	755291.052			
CC (XXXXX)		190241.128	755274.422			
PT (XXXXX)	101+16.66	190241.889	755291.328			
Radius:	16.924					
Delta:	39.917° Right					
Degree of Curvature (Arc):	338.554°					
Length:	11.790					
Tangent:	6.146					
Chord:	11.553					
Middle Ordinate:	1.016					
External:	1.081					
Tangent Direction:	S 42.494° E					
Radial Direction:	S 47.506° W					
Chord Direction:	S 22.535° E					
Radial Direction:	S 87.423° W					
Tangent Direction:	S 2.577° E					

CIRCULAR CURVE NO. (10)						
Element: Circular						
</

CIRCULAR CURVE NO. (16)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	101+96.81	190175.204	755317.992
HPI (XXXXX)	102+02.43	190169.608	755318.504
CC (XXXXX)		190176.115	755327.950
PT (XXXXX)	102+07.05	190167.135	755323.550
Radius:	10		
Delta:	58.670° Left		
Degree of Curvature (Arc):	212.958°		
Length:	10.240		
Tangent:	5.620		
Chord:	9.798		
Middle Ordinate:	1.282		
External:	1.471		
Tangent Direction:	S 5.225° E		
Radial Direction:	S 84.775° W		
Chord Direction:	S 34.560° E		
Radial Direction:	S 26.105° W		
Tangent Direction:	S 63.895° E		

CIRCULAR CURVE NO. (17)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	102+12.41	190164.775	755328.367
HPI (XXXXX)	102+14.66	190163.783	755330.390
CC (XXXXX)		190155.795	755323.967
PT (XXXXX)	102+16.84	190162.020	755331.793
Radius:	10		
Delta:	25.395° Right		
Degree of Curvature (Arc):	212.958°		
Length:	4.432		
Tangent:	2.253		
Chord:	4.396		
Middle Ordinate:	0.245		
External:	0.251		
Tangent Direction:	S 63.895° E		
Radial Direction:	S 26.105° W		
Chord Direction:	S 51.197° E		
Radial Direction:	S 51.500° W		
Tangent Direction:	S 38.500° E		

CIRCULAR CURVE NO. (18)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	102+25.86	190154.968	755337.403
HPI (XXXXX)	102+28.70	190152.742	755339.173
CC (XXXXX)		190161.193	755345.229
PT (XXXXX)	102+31.40	190151.781	755341.850
Radius:	10		
Delta:	31.754° Left		
Degree of Curvature (Arc):	212.958°		
Length:	5.542		
Tangent:	2.844		
Chord:	5.472		
Middle Ordinate:	0.381		
External:	0.397		
Tangent Direction:	S 38.500° E		
Radial Direction:	S 51.500° W		
Chord Direction:	S 54.377° E		
Radial Direction:	S 19.746° W		
Tangent Direction:	S 70.254° E		

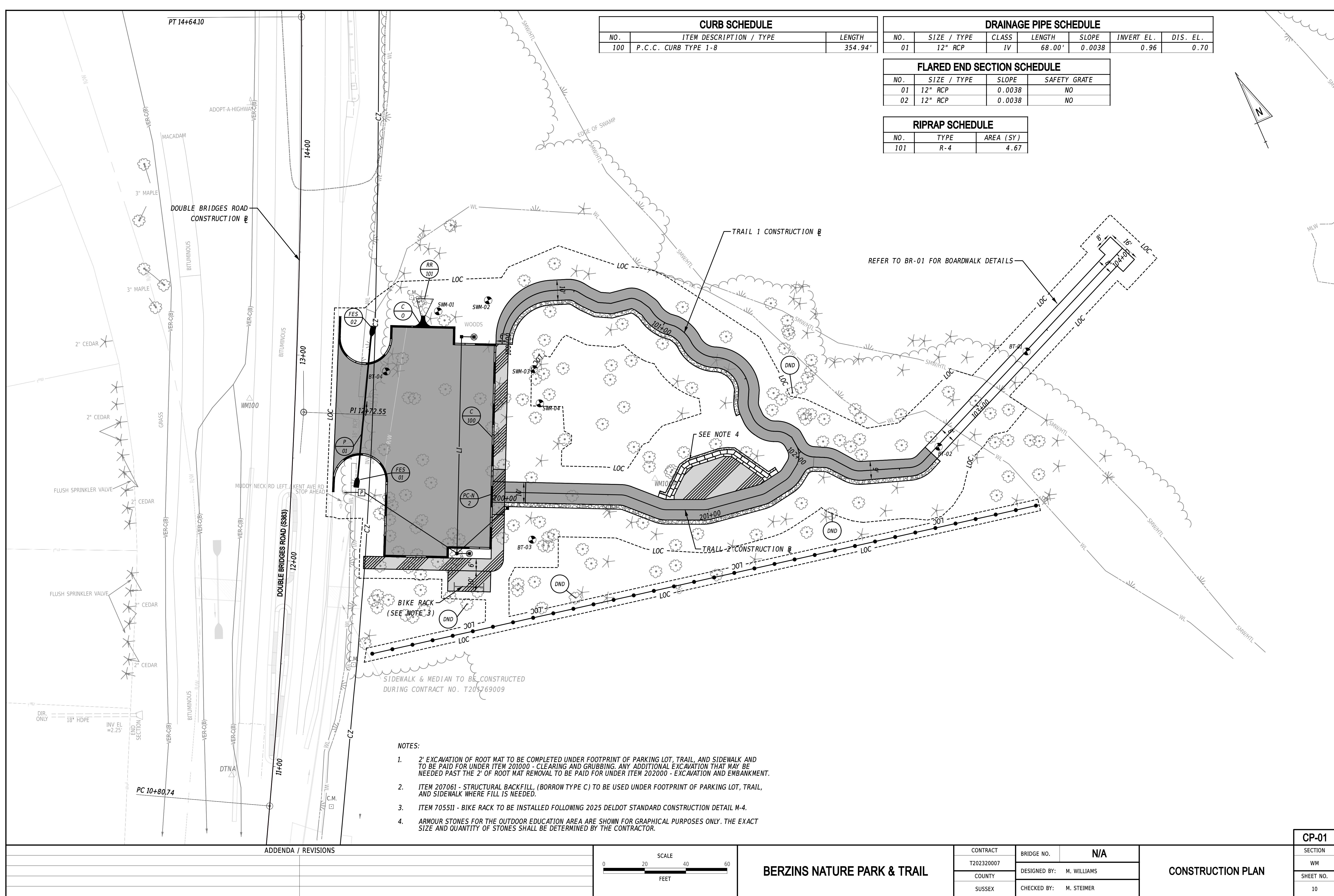
CIRCULAR CURVE NO. (19)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	102+55.02	190143.799	755364.086
HPI (XXXXX)	102+58.97	190142.466	755367.800
CC (XXXXX)		190153.211	755367.465
PT (XXXXX)	102+62.54	190144.028	755371.423
Radius:	10		
Delta:	43.064° Left		
Degree of Curvature (Arc):	212.958°		
Length:	7.516		
Tangent:	3.946		
Chord:	7.340		
Middle Ordinate:	0.698		
External:	0.750		
Tangent Direction:	S 70.254° E		
Radial Direction:	S 19.746° W		
Chord Direction:	N 88.214° E		
Radial Direction:	S 23.318° E		
Tangent Direction:	S 66.682° E		

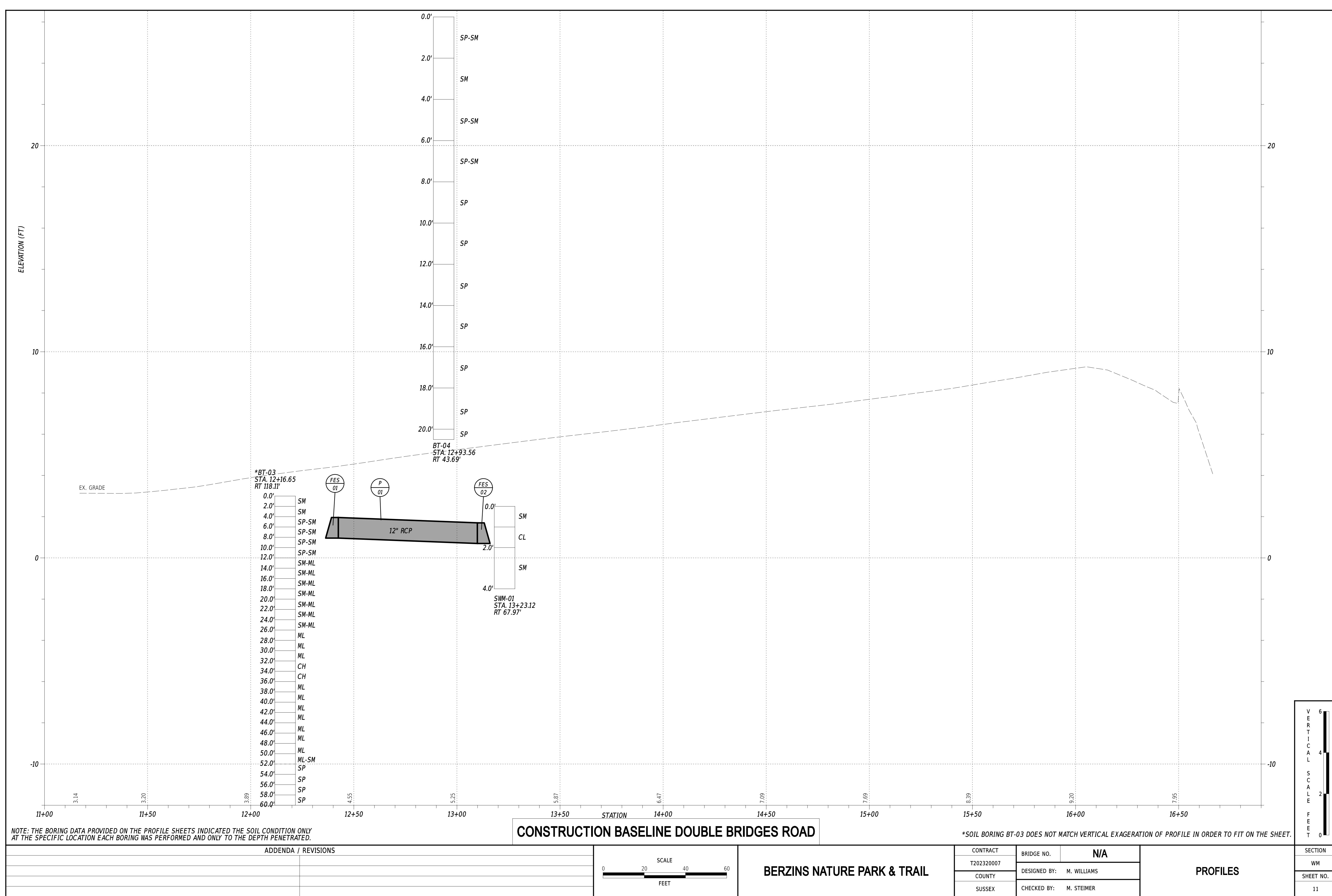
CIRCULAR CURVE NO. (20)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	200+56.23	190187.845	755230.298
HPI (XXXXX)	200+57.97	190187.112	755231.874
CC (XXXXX)		190178.777	755226.081
PT (XXXXX)	200+59.67	190185.890	755233.110
Radius:	10		
Delta:	19.721° Right		
Degree of Curvature (Arc):	212.958°		
Length:	3.442		
Tangent:	1.738		
Chord:	3.425		
Middle Ordinate:	0.148		
External:	0.150		
Tangent Direction:	S 65.060° E		
Radial Direction:	S 24.940° W		
Chord Direction:	S 55.200° W		
Radial Direction:	S 444.661° E		
Tangent Direction:	S 45.339° E		

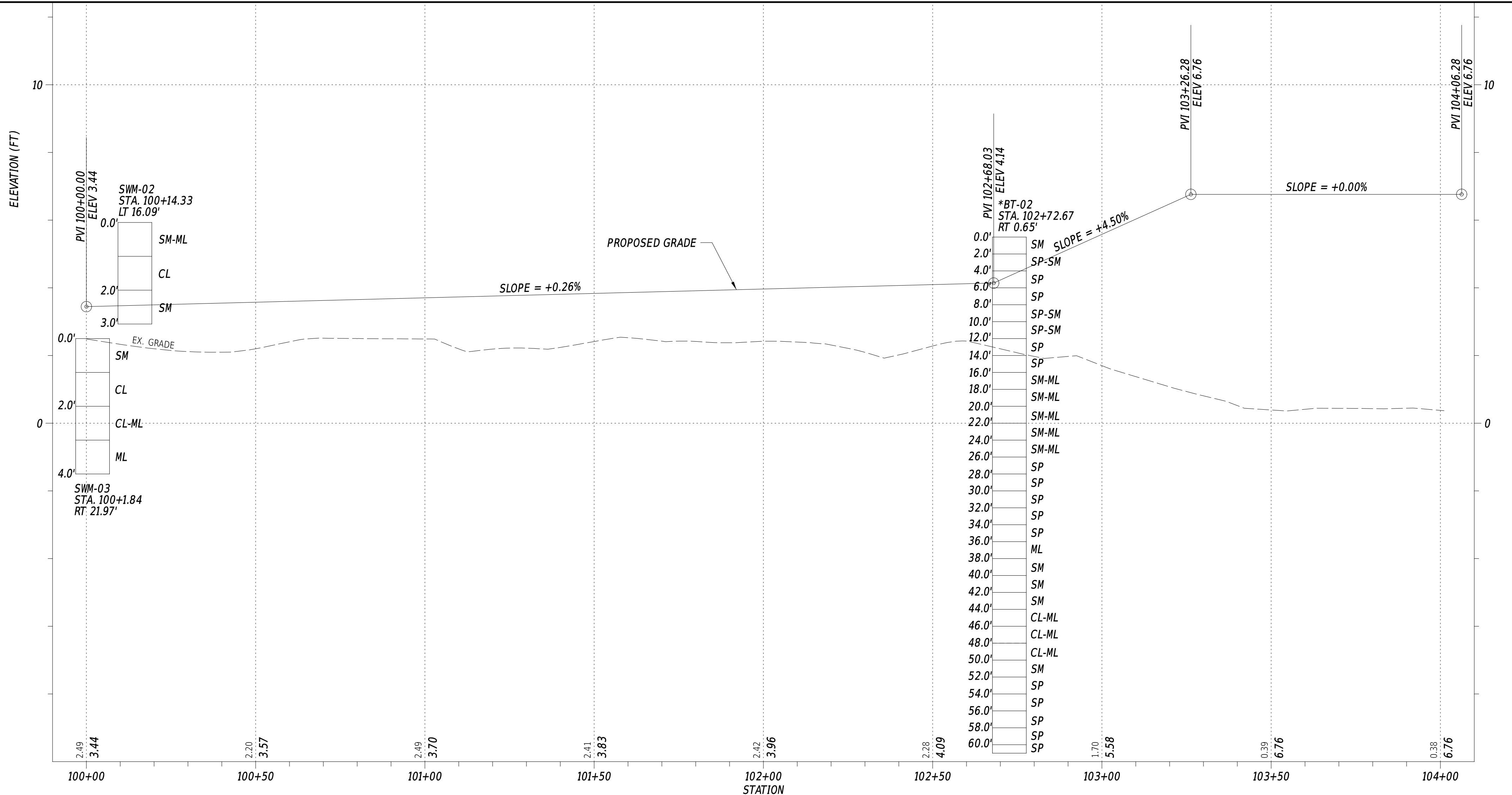
CIRCULAR CURVE NO. (21)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	200+76.15	190174.309	755244.830
HPI (XXXXX)	200+78.00	190173.008	755246.146
CC (XXXXX)		190181.421	755251.859
PT (XXXXX)	200+79.81	190172.264	755247.840
Radius:	10		
Delta:	20.966° Left		
Degree of Curvature (Arc):	212.958°		
Length:	3.659		
Tangent:	1.850		
Chord:	3.639		
Middle Ordinate:	0.167		
External:	0.170		
Tangent Direction:	S 45.339° E		
Radial Direction:	S 44.661° W		
Chord Direction:	S 55.822° E		
Radial Direction:	S 23.695° W		
Tangent Direction:	S 66.305° E		

CIRCULAR CURVE NO. (22)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	200+97.60	190165.113	755264.136
HPI (XXXXX)	200+98.95	190164.571	755265.370
CC (XXXXX)		190174.270	755268.154
PT (XXXXX)	201+00.28	190164.376	755266.704
Radius:	10		
Delta:	15.355° Left		
Degree of Curvature (Arc):	212.958°		
Length:	2.680		
Tangent:	1.348		
Chord:	2.672		
Middle Ordinate:	0.090		
External:	0.090		
Tangent Direction:	S 66.305° E		
Radial Direction:	S 23.695° W		
Chord Direction:	S 73.983° E		
Radial Direction:	S 08.339° W		
Tangent Direction:	S 81.661° E		

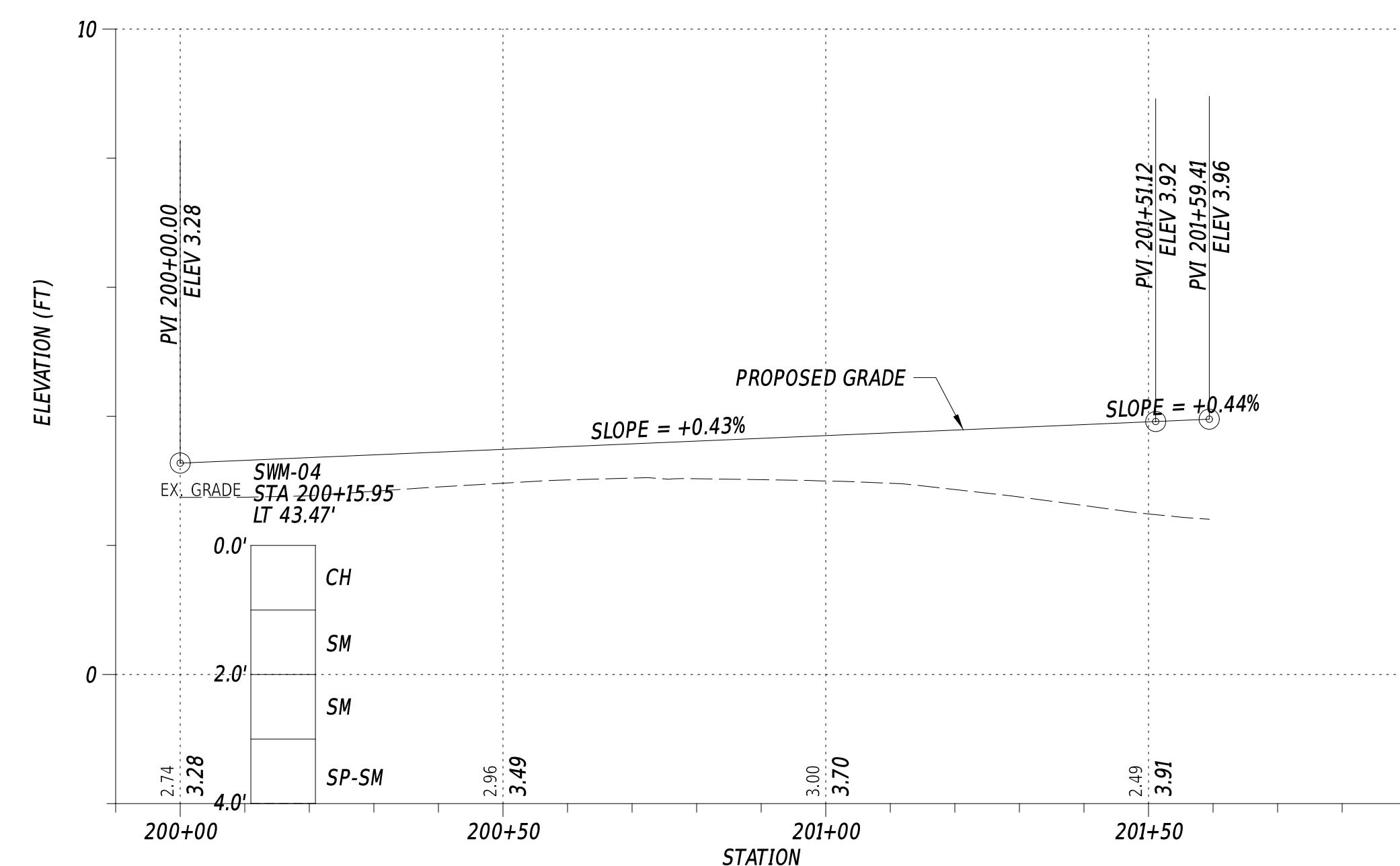
CIRCULAR CURVE NO. (23)			
Element: Circular			
STATION	NORTHING	EASTING	
PC (XXXXX)	201+26.55	190160.566	755292.690
HPI (XXXXX)	201+28.09	190160.343	755294.212
CC (XXXXX)		190170.461	755294.140
PT (XXXXX)	201+29.60	190160.588	755295.732
Radius:	10		
Delta:</td			







CONSTRUCTION BASELINE TRAIL 1

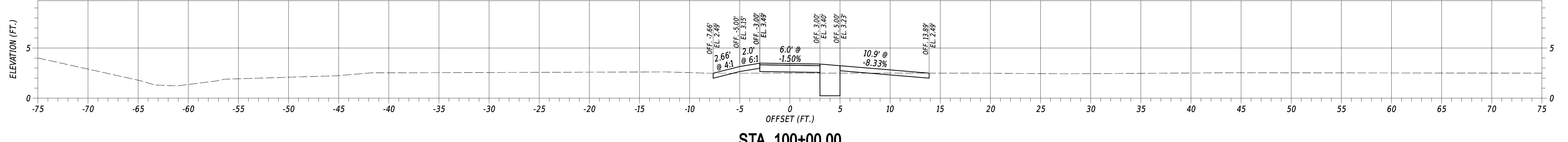
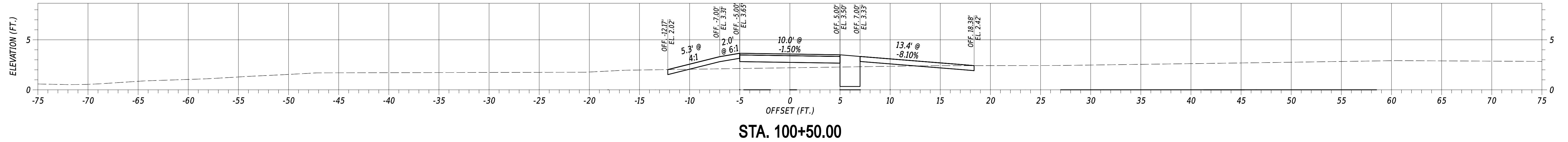
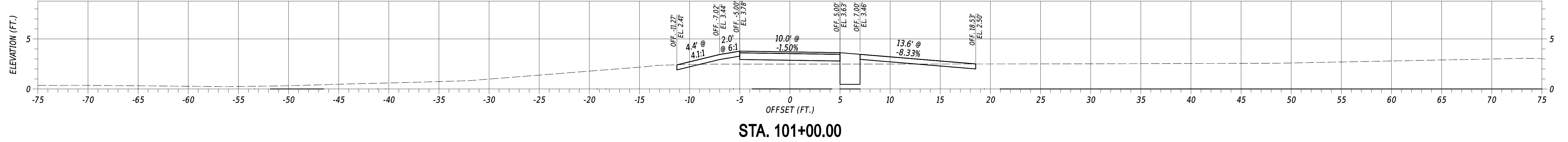
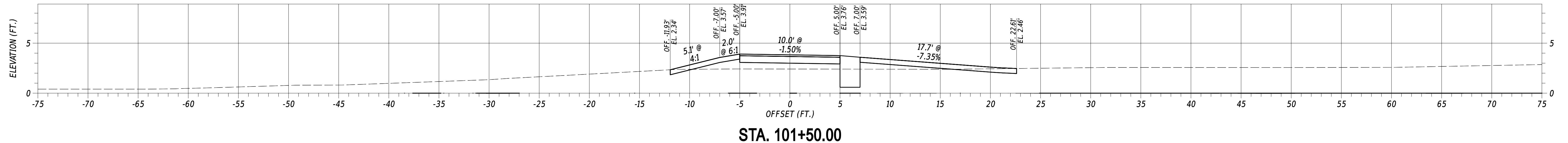


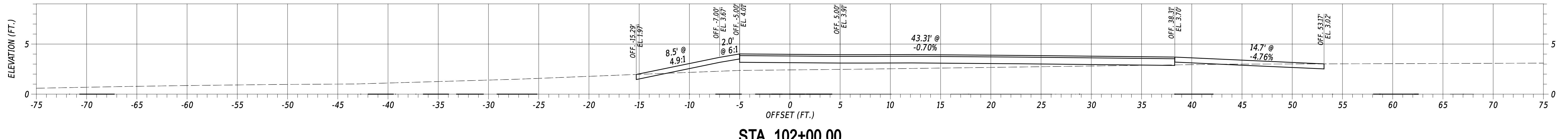
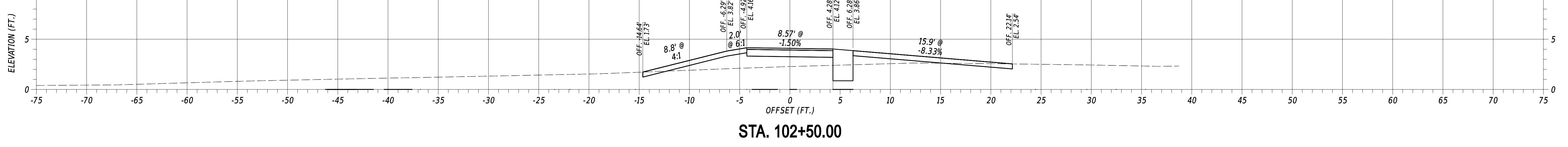
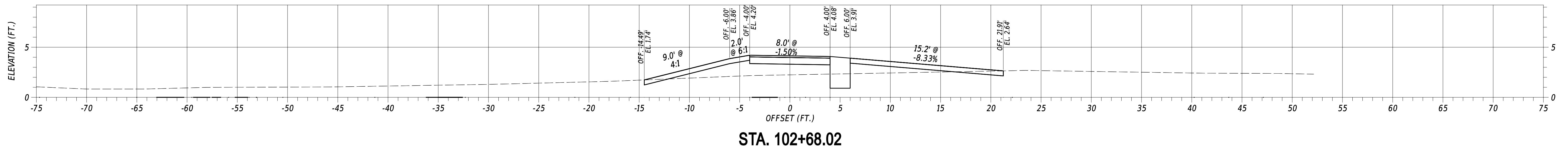
CONSTRUCTION BASELINE TRAIL 2

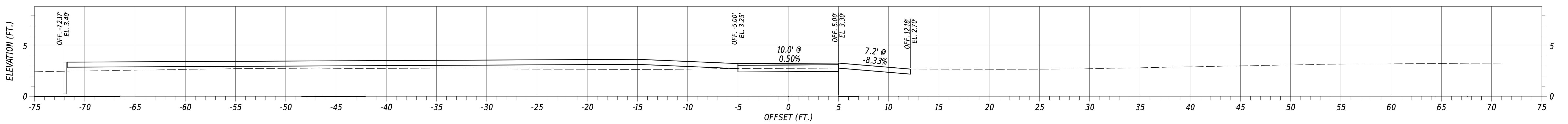
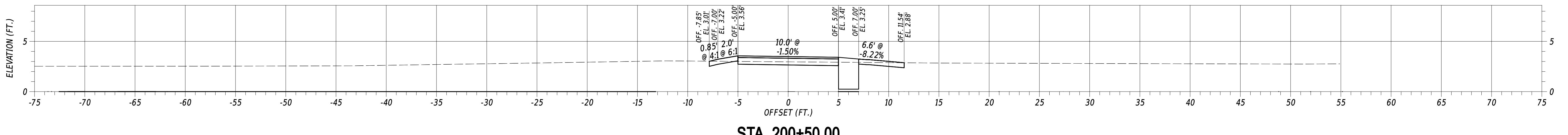
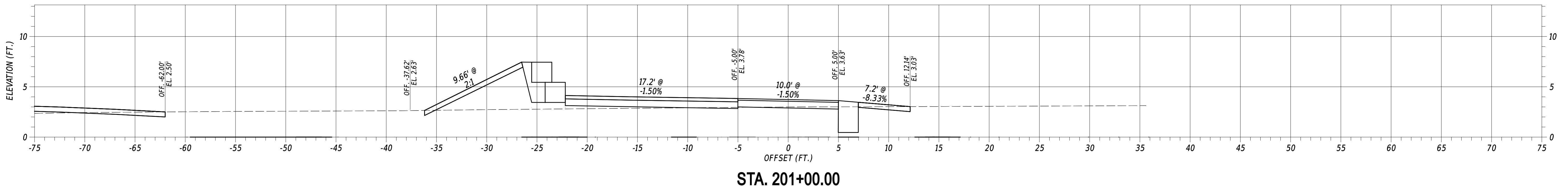
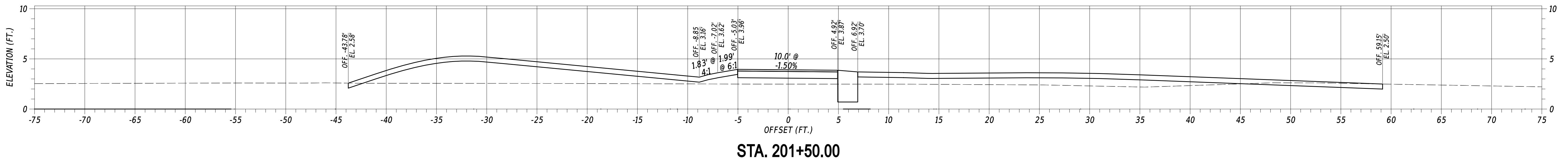
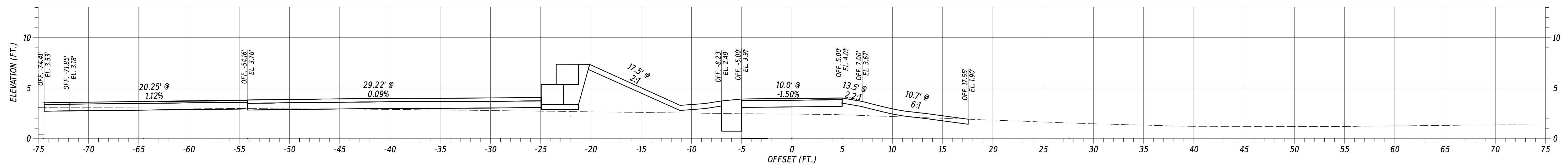
NOTE: THE BORING DATA PROVIDED ON THE PROFILE SHEETS INDICATES THE SOIL CONDITION ONLY AT THE SPECIFIC LOCATION EACH BORING WAS PERFORMED AND ONLY TO THE DEPTH PENETRATED.

**SOIL BORING BT-02 DOES NOT MATCH VERTICAL EXAGERATION OF PROFILE IN ORDER TO FIT ON THE SHEET.*

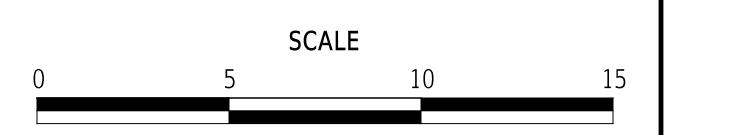
ADDENDA / REVISIONS		CONTRACT		SECTION	
		BRDG NO.		WM	
		T2032007		SHEET NO.	
SCALE		DESIGNED BY: M. WILLIAMS		12	
0 20 40 60		COUNTY		12	
FEET		SUSSEX		12	
BERZINS NATURE PARK & TRAIL		CHECKED BY: M. STEIM		12	
PROFILES					







ADDENDA / REVISIONS	



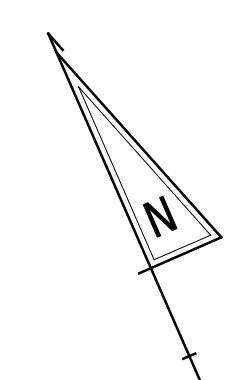
BERZINS NATURE PARK & TRAIL

CONTRACT	BRIDGE NO.	N/A	SECTION
T202320007			WM
COUNTY	DESIGNED BY:	M. WILLIAMS	
SUSSEX	CHECKED BY:	M. STEIMER	

CROSS SECTIONS
STA. 200+00 TO 201+59.41

COORDINATE LIST					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
• 80101	12+34.62	20.05'	190245.3066	755102.6923	3.91'
• 80102	12+40.60	20.05'	190250.6135	755105.3110	3.97'
• 80103	12+40.51	33.27'	190244.7376	755117.1653	1.88'
• 80104	12+40.73	46.50'	190239.0596	755129.1157	3.76'
• 80105	12+05.46	47.23'	190206.8231	755113.7991	3.58'
• 80106	12+06.47	77.17'	190194.2455	755140.9792	3.44'
• 80107	12+11.18	76.98'	190198.6132	755142.9808	2.41'
• 80108	12+11.84	97.72'	190189.8789	755161.8042	3.32'
• 80109	12+38.23	96.94'	190214.3817	755173.1851	3.17'
• 80110	13+07.63	95.71'	190278.7815	755203.0973	2.82'
• 80111	13+07.42	75.71'	190287.1814	755184.9450	2.72'
• 80112	13+15.19	75.60'	190294.3727	755188.2406	2.68'

COORDINATE LIST					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
• 80113	13+14.93	45.91'	190306.8408	755161.2847	3.14'
• 80114	13+09.35	45.92'	190301.7336	755158.8801	3.35'
• 80115	13+09.35	33.01'	190307.2761	755147.2199	2.56'
• 80116	13+09.44	20.10'	190312.9031	755135.5888	4.78'
• 80117	13+19.33	20.11'	190321.8768	755139.8797	4.90'
• 80118	12+04.30	37.09'	190210.5104	755104.0369	3.77'
• 80119	11+98.39	37.08'	190205.0649	755101.5176	3.69'
• 80120	11+99.87	78.15'	190187.8078	755138.8183	4.01'
• 80121	11+90.06	78.52'	190178.7324	755134.6187	3.86'
• 80122	11+90.84	99.24'	190170.0269	755153.4356	3.76'
• 80123	12+00.60	98.87'	190179.1025	755157.6346	3.91'
• 80124	12+06.46	98.65'	190184.5475	755160.1550	4.00'



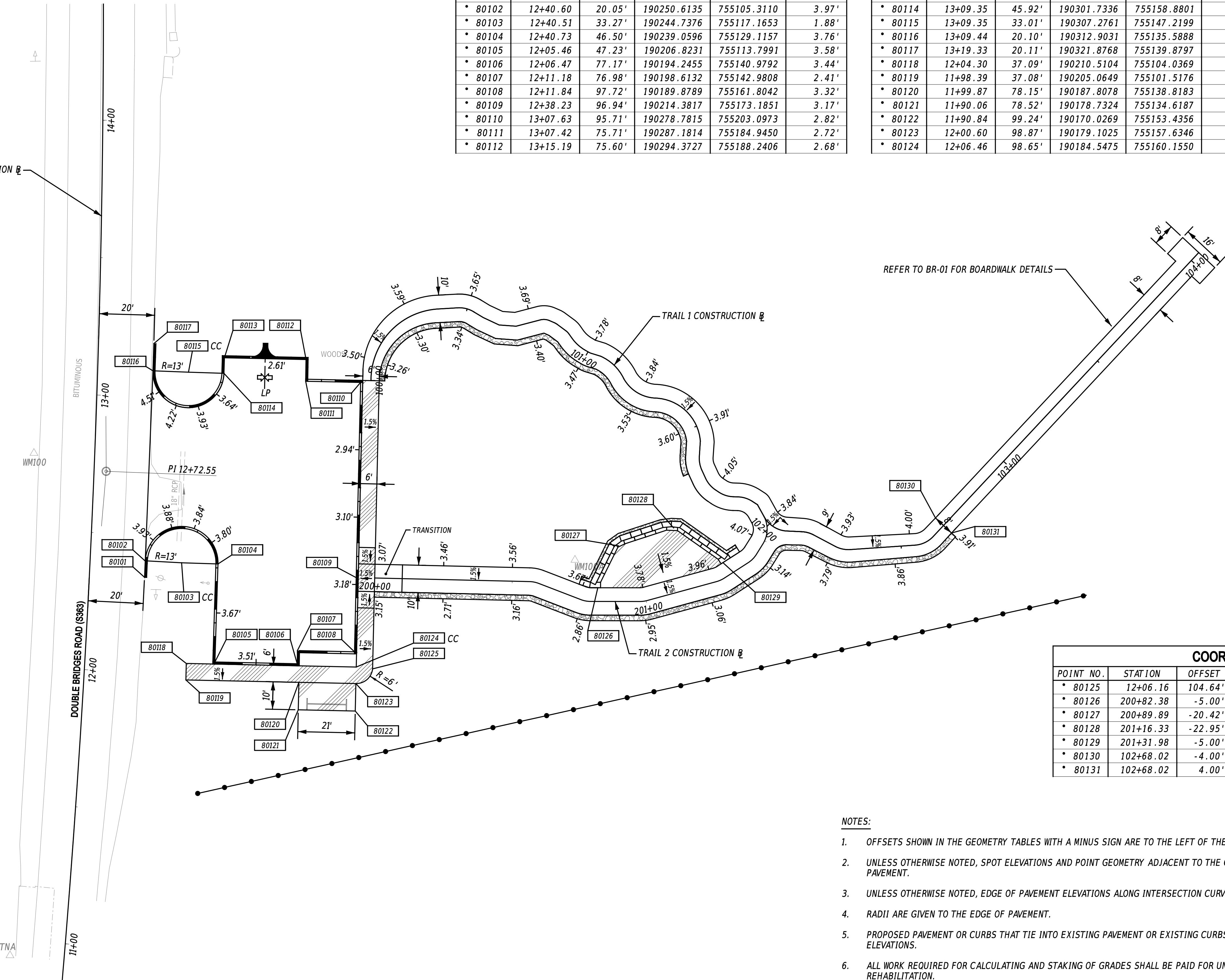
DOUBLE BRIDGES ROAD CONSTRUCTION B

BITUMINOUS

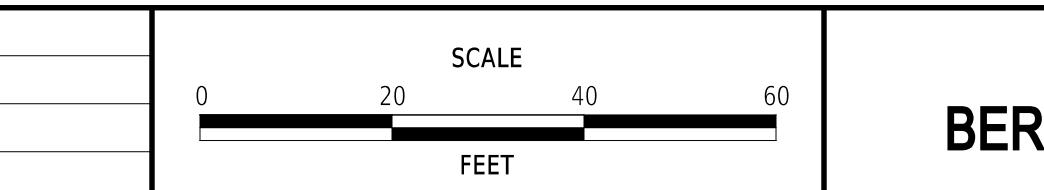
GRASS

BITUMINOUS

DTNA



COORDINATE LIST					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
• 80125	12+06.16	104.64'	190181.5644	755165.3595	3.91'
• 80126	200+82.38	-5.00'	190175.8099	755252.2032	3.77'
• 80127	200+89.89	-20.42'	190186.8735	755265.3555	4.01'
• 80128	201+16.33	-22.95'	190184.7193	755286.1897	4.07'
• 80129	201+31.98	-5.00'	190165.9482	755297.5647	4.07'
• 80130	102+68.02	-4.00'	190149.8747	755374.8828	4.20'
• 80131	102+68.02	4.00'	190142.5282	755378.0493	4.08'



BERZINS NATURE PARK & TRAIL

CONTRACT	BRIDGE NO.	N/A
T202320007		
DESIGNED BY:	M. WEBER	
SUSSEX	CHECKED BY:	M. STEIMER

GRADES AND GEOMETRICS

GG-01

SECTION

WM

SHEET NO.

16

GENERAL MOT NOTES

1. *MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION TA-3, TA-10, AND TA-11B OF THE DELAWARE MUTCD.*
 2. *AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.*

<input checked="" type="checkbox"/>	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
<input type="checkbox"/>	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT AND THAT PERSON'S SOLE RESPONSIBILITY SHALL BE THE MANAGEMENT AND SUPERVISION OF THE PROJECT'S TEMPORARY TRAFFIC CONTROL ACTIVITIES. THIS PERSON SHALL NOT HAVE ANY OTHER ROLE ON THE PROJECT. RESPONSIBILITIES AND REQUIREMENTS OF THE ATSSA SUPERVISOR ARE DEFINED IN SECTION 812 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

3. THE USE OF MILLINGS AND GRADED AGGREGATE BASE COURSE (GABC) IN THE TRAVEL WAY, TEMPORARY TRAVEL WAY, HIGH VOLUME ENTRANCES AND ACCESS RAMP FOR THE PURPOSE OF PROVIDING A TEMPORARY ROADWAY SURFACE, POTHOLE REPAIR, TAPERED EDGE FOR UTILITIES, BUTT JOINTS, AND LONGITUDINAL DROP-OFFS (MILLING AND PAVING OPERATIONS) IS PROHIBITED UNLESS IT IS OTHERWISE DESIGNATED TO BE USED IN THE CONTRACT PLANS. USE COLD PATCH, BITUMINOUS CONCRETE, BITUMINOUS CONCRETE WEDGE, OR TAPER MILL, AS NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER. PAYMENT FOR COLD PATCH, BITUMINOUS CONCRETE OR BITUMINOUS CONCRETE WEDGE SHALL BE PAID AS NOTED IN THE CONTRACT DOCUMENTS. TAPER MILL BITUMINOUS CONCRETE SHALL BE PAID UNDER THE BITUMINOUS CONCRETE MILLING ITEM.

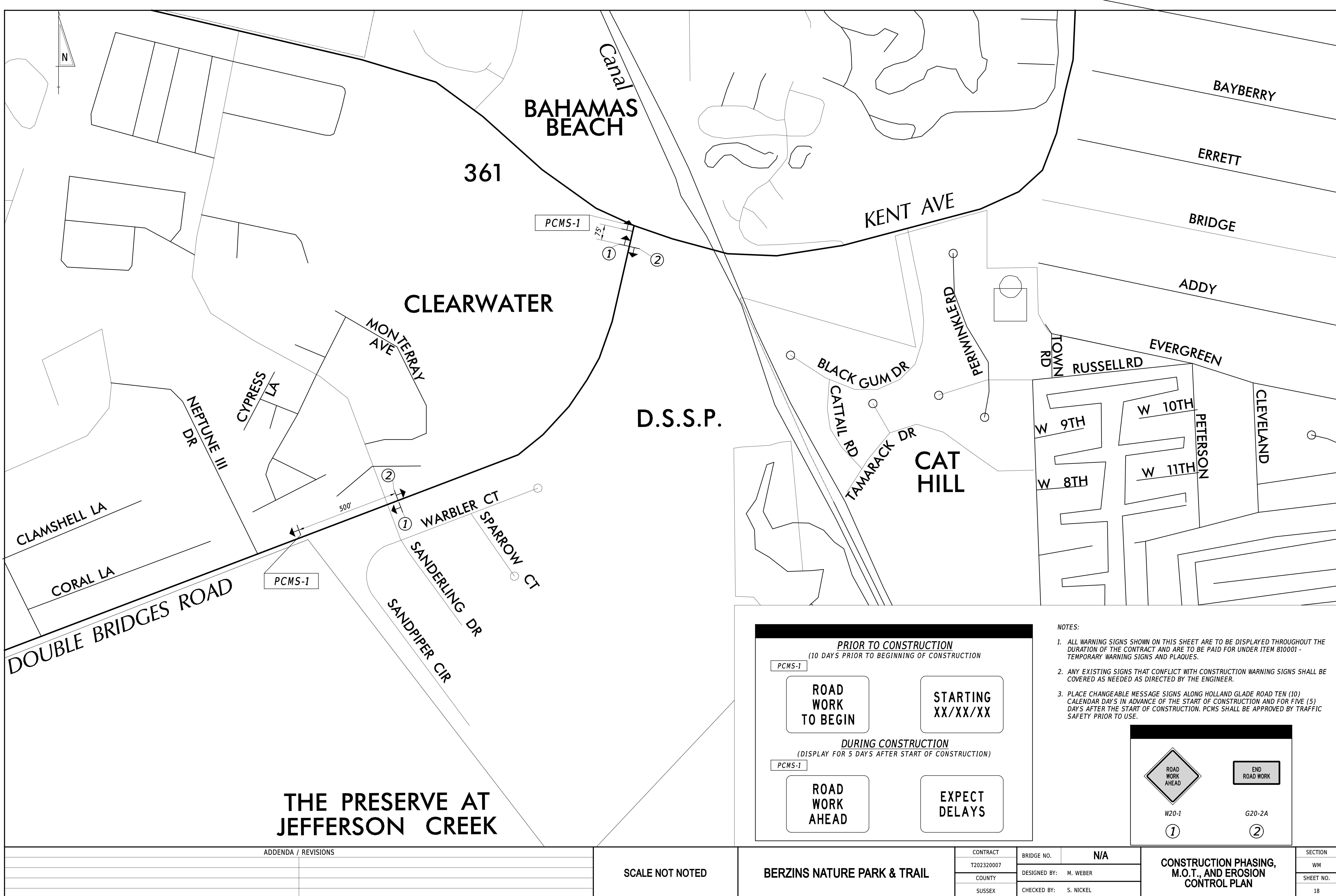
MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATIONS WHERE ACCESS TO A BUSINESS, RESIDENCE, OR EDGE DROP OFF NEEDS TO BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER TO USE BITUMINOUS CONCRETE OR COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELLING:

- A. DRIVEWAYS
 - B. ENTRANCES
 - C. LOW VOLUME ACCESS RAMPS (IDENTIFIED IN THE CONTRACT DOCUMENTS)
 - D. EDGE DROP-OFFS ADJACENT TO LIVE ROADWAY(LANES AND SHOULDER) AND THE PROPOSED ROAD CONSTRUCTION
 - E. EDGE OF ROADWAY DROP-OFF

GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVELWAY, DRIVEWAY OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM NO. 801000 - MAINTENANCE OF TRAFFIC. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR MILLINGS OR GABC TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM.

VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE MUTCD.

4. MESSAGE BOARDS SHALL BE PLACED 10 DAYS IN ADVANCE OF THE WORK AND TRAFFIC PATTERN CHANGES AND REMAIN IN PLACE FOR 5 DAYS AFTER THE START OF THE WORK. LOCATIONS OF MESSAGE BOARDS AND MESSAGES DISPLAYED SHALL BE REVIEWED AND APPROVED BY THE DISTRICT SAFETY OFFICER.
 5. NEW PEDESTRIAN FACILITIES SHALL REMAIN CLOSED WITH TYPE 3 BARRICADES AND CLOSED SIGNS UNTIL THE ENTIRE SEGMENT IS CONSTRUCTED AND CONNECTED TO AN EXISTING FACILITY.



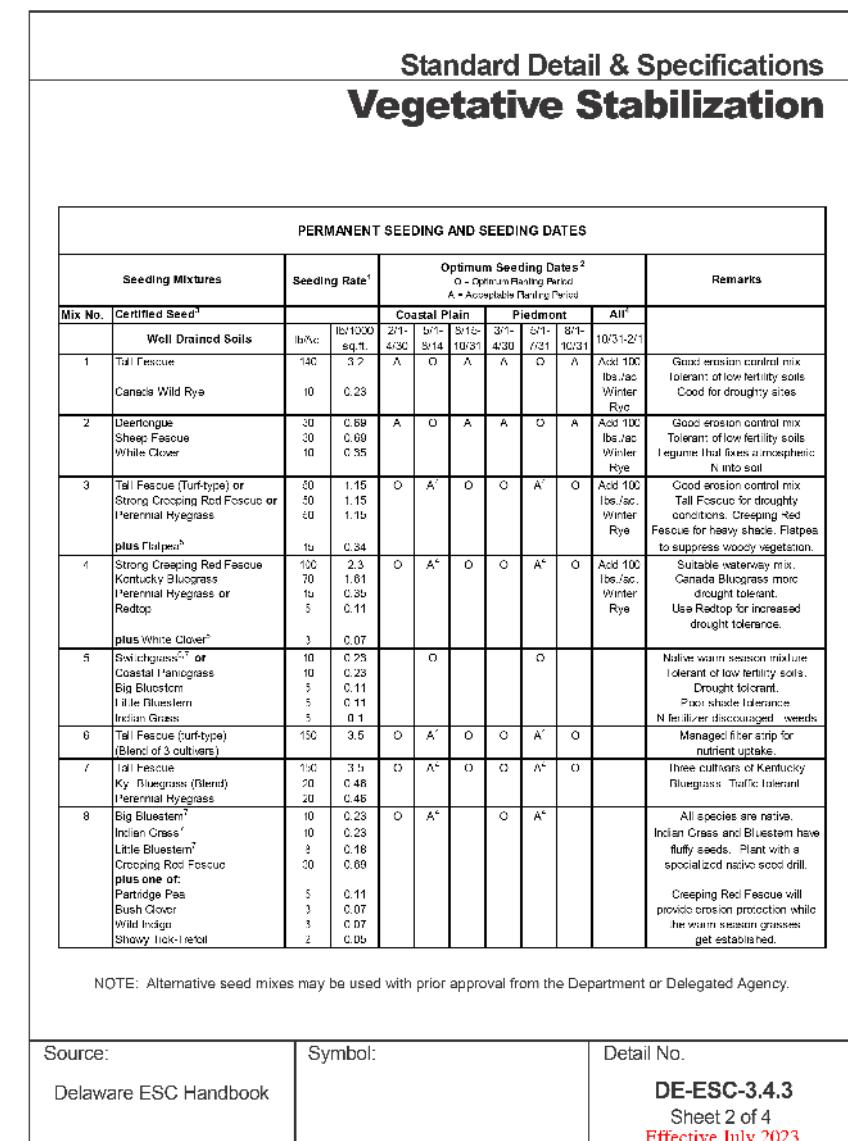
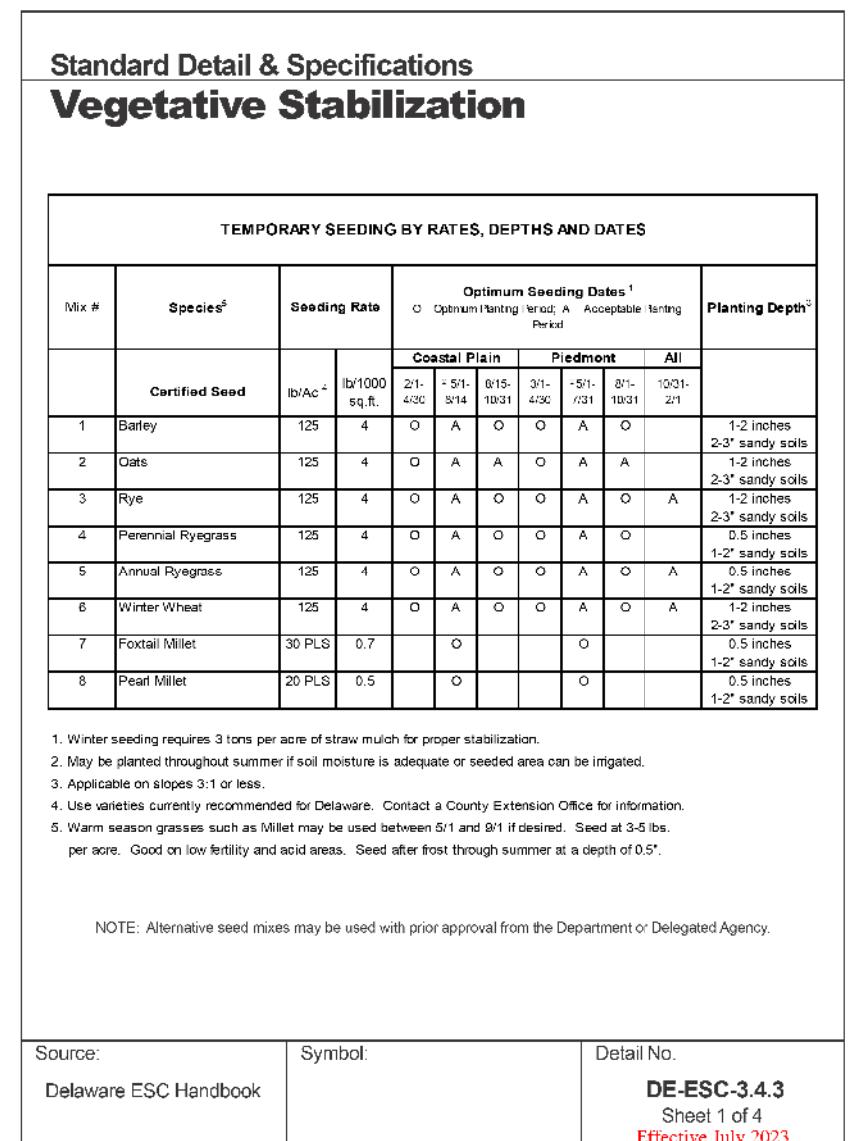
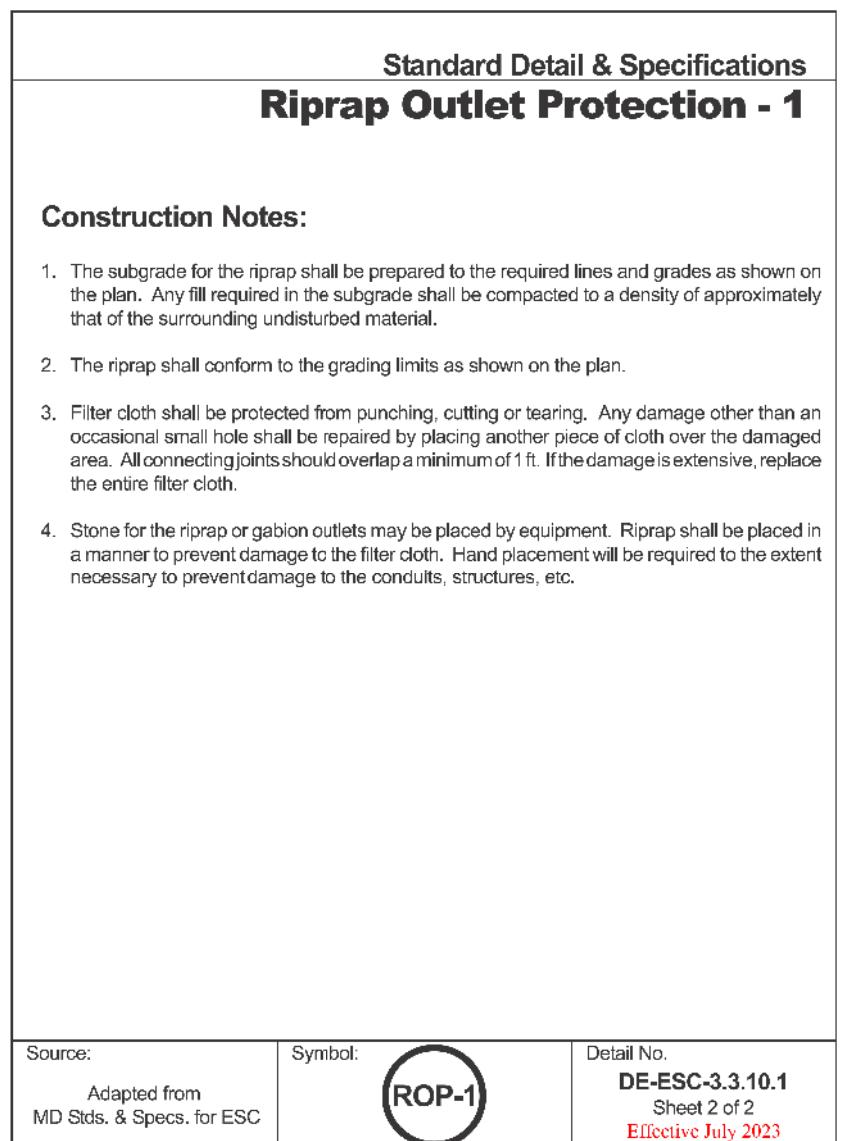
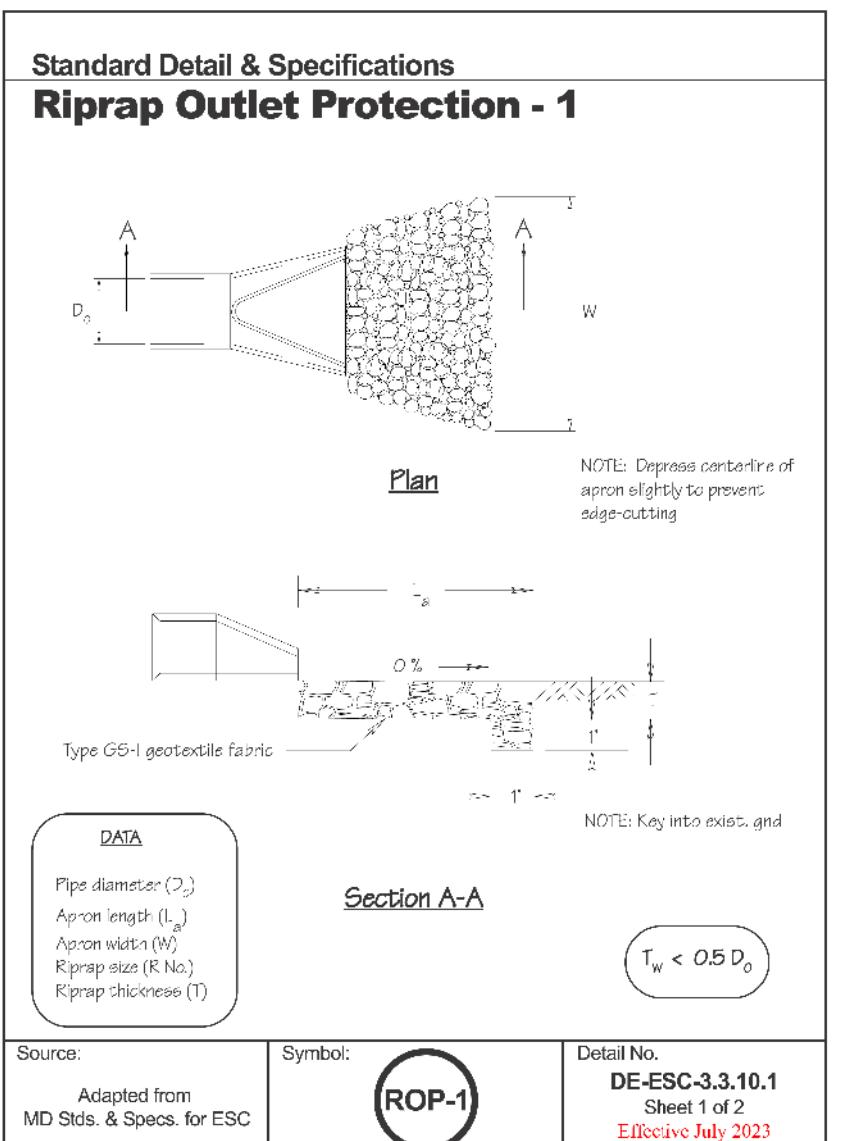
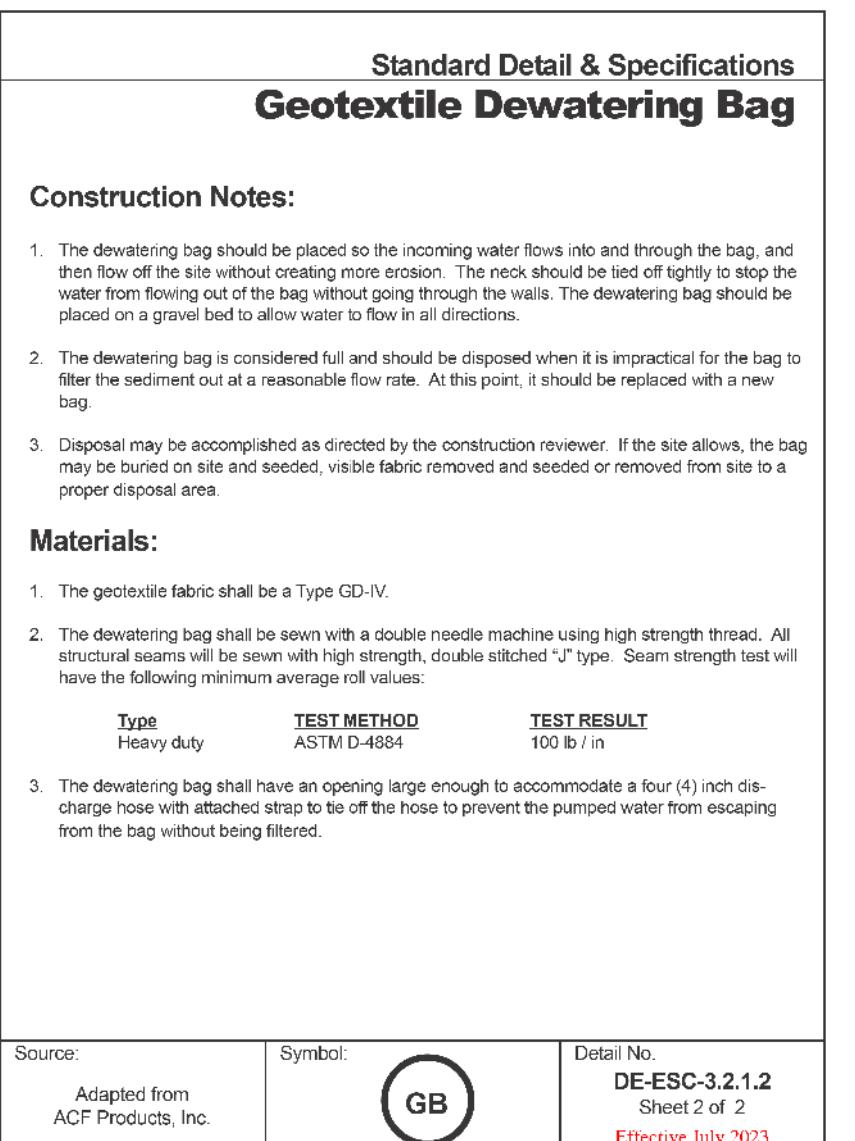
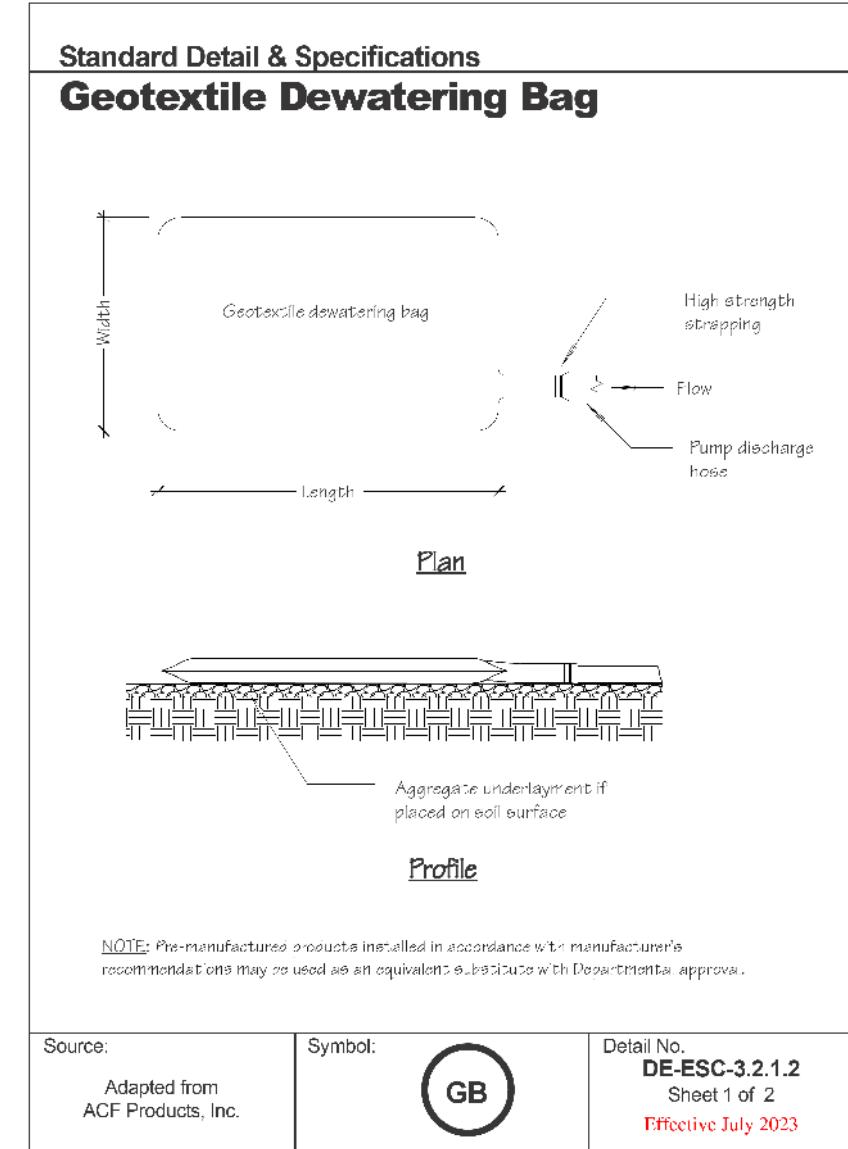
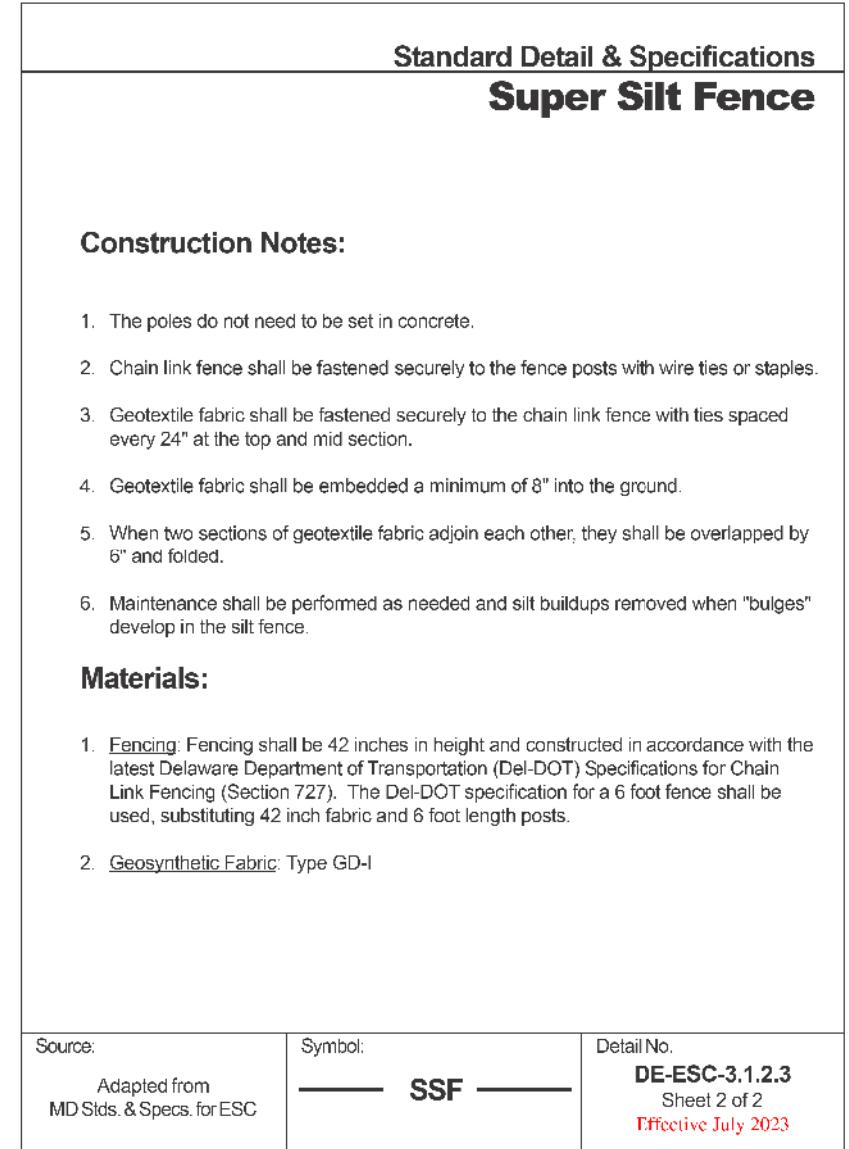
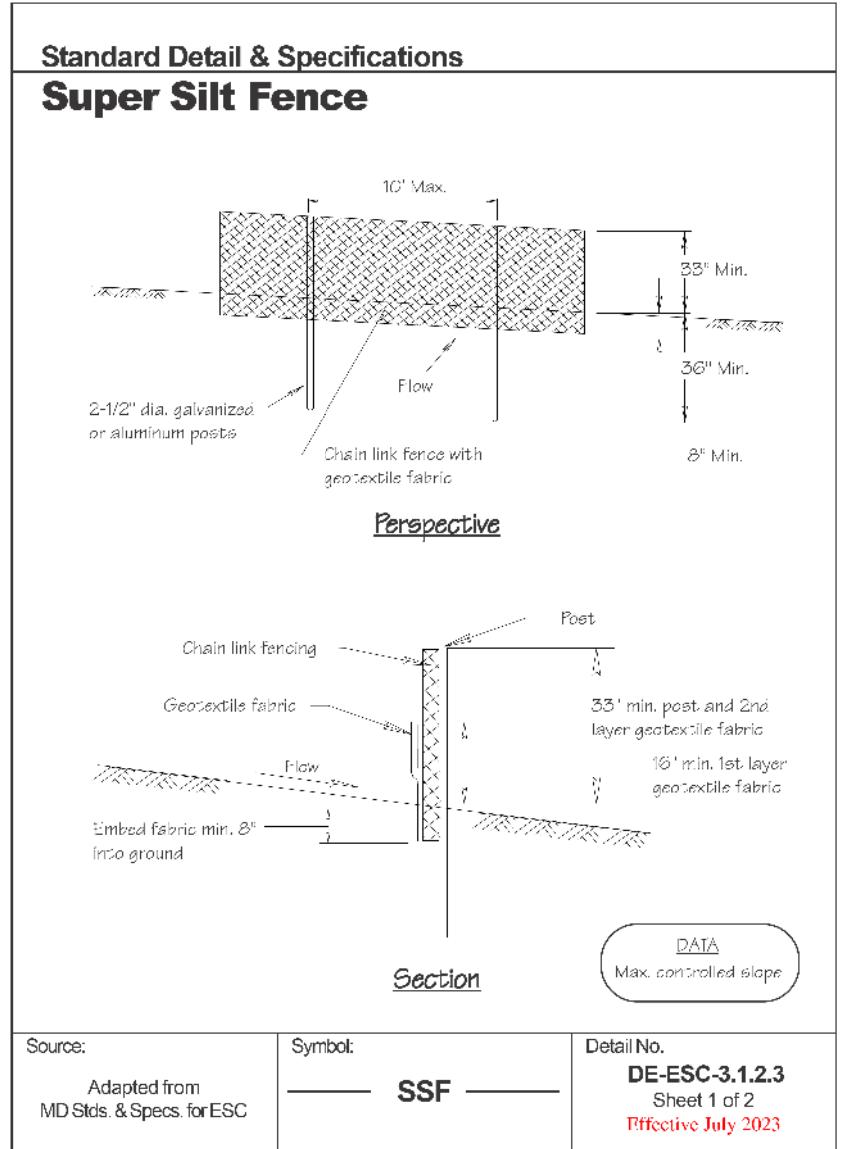
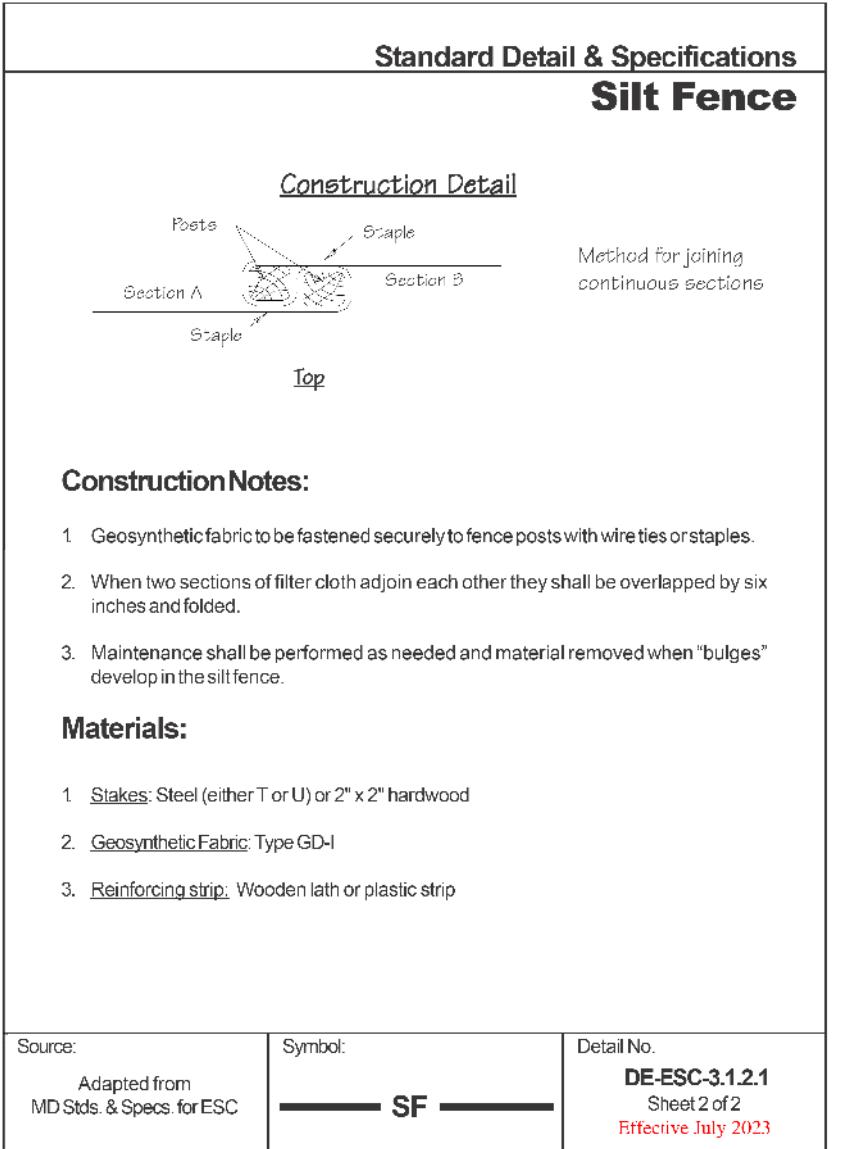
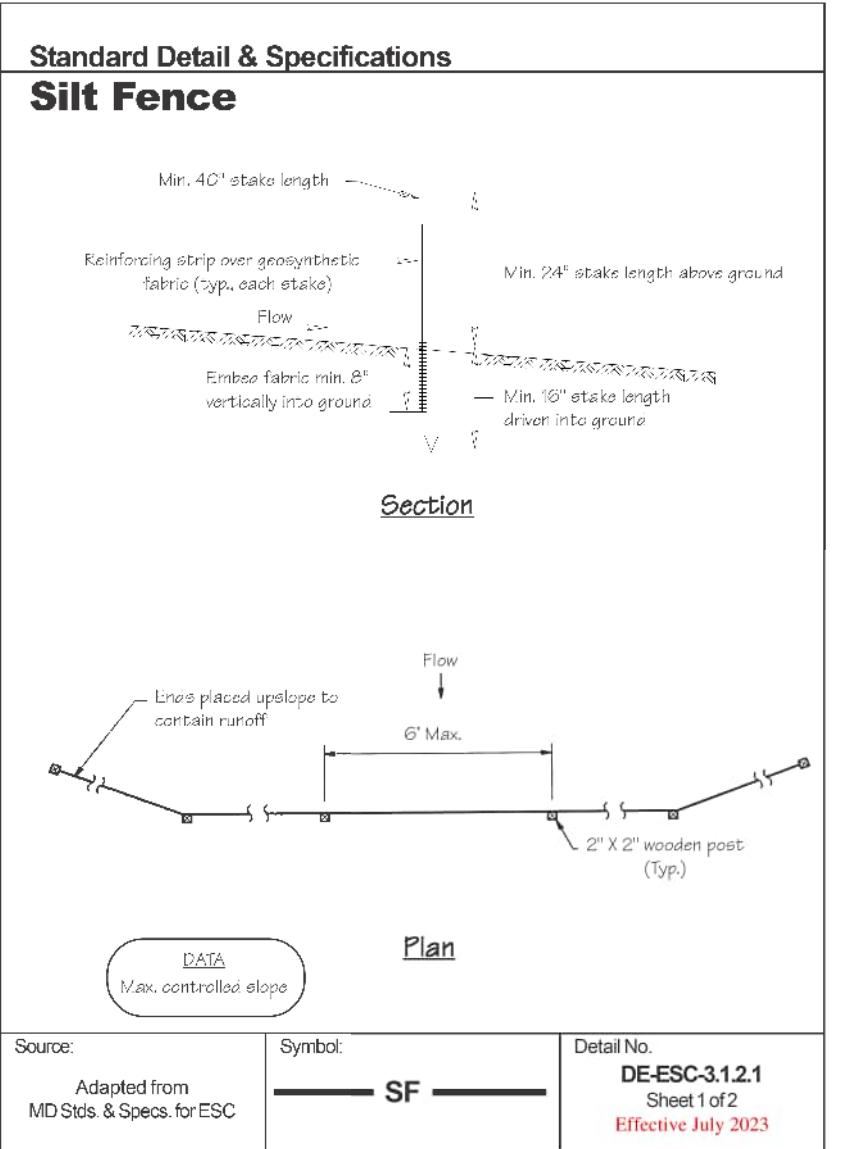
GENERAL EROSION AND SEDIMENT CONTROL (E&S) NOTES

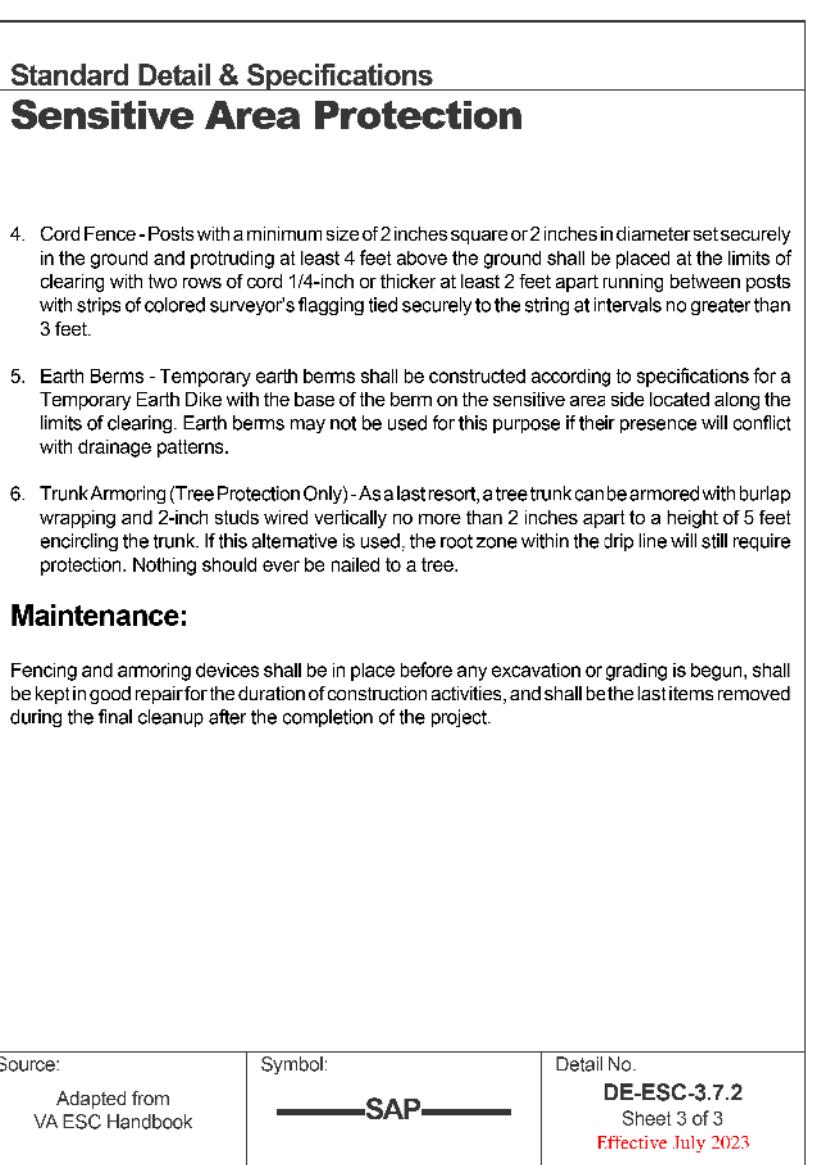
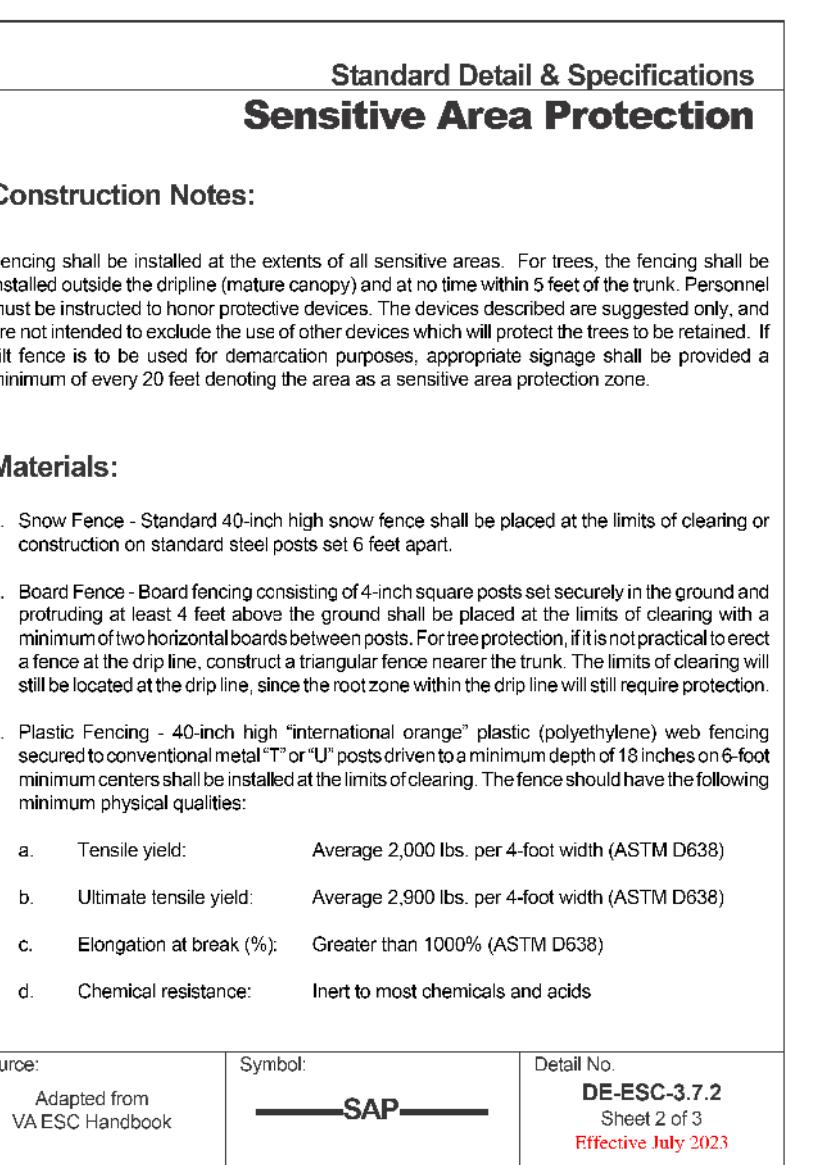
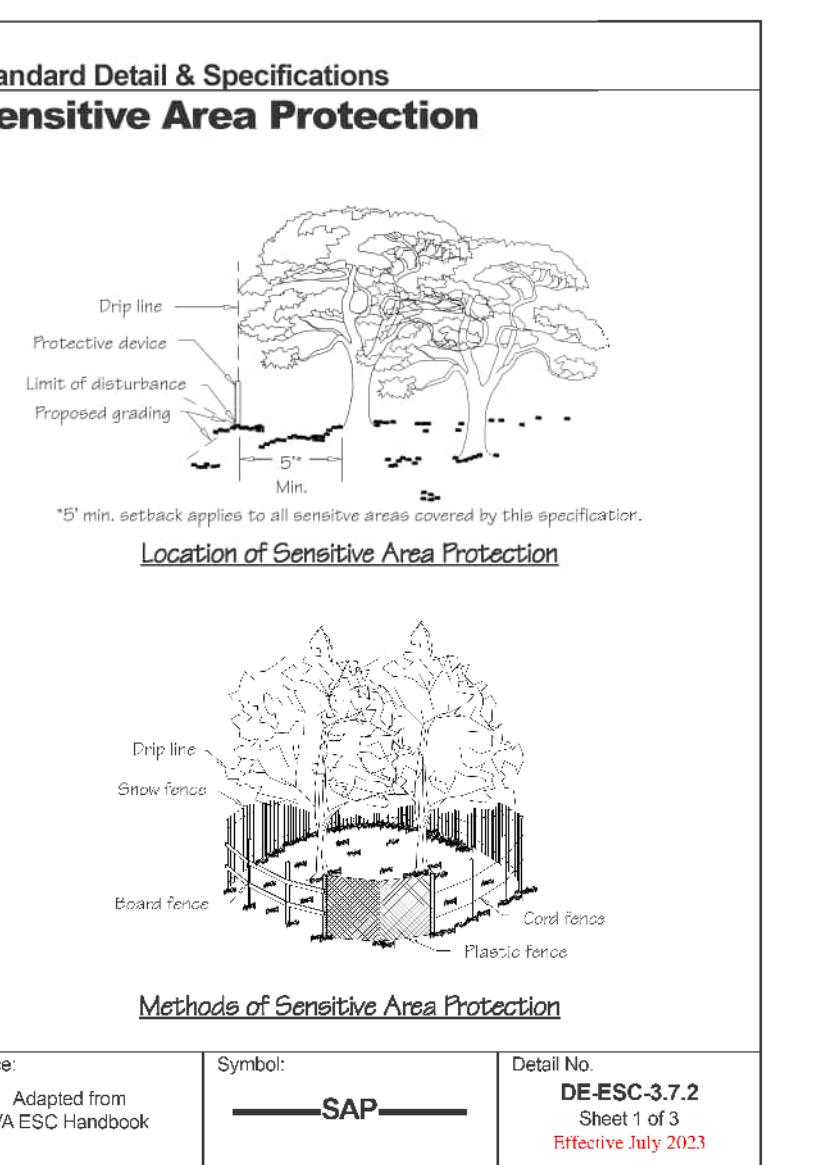
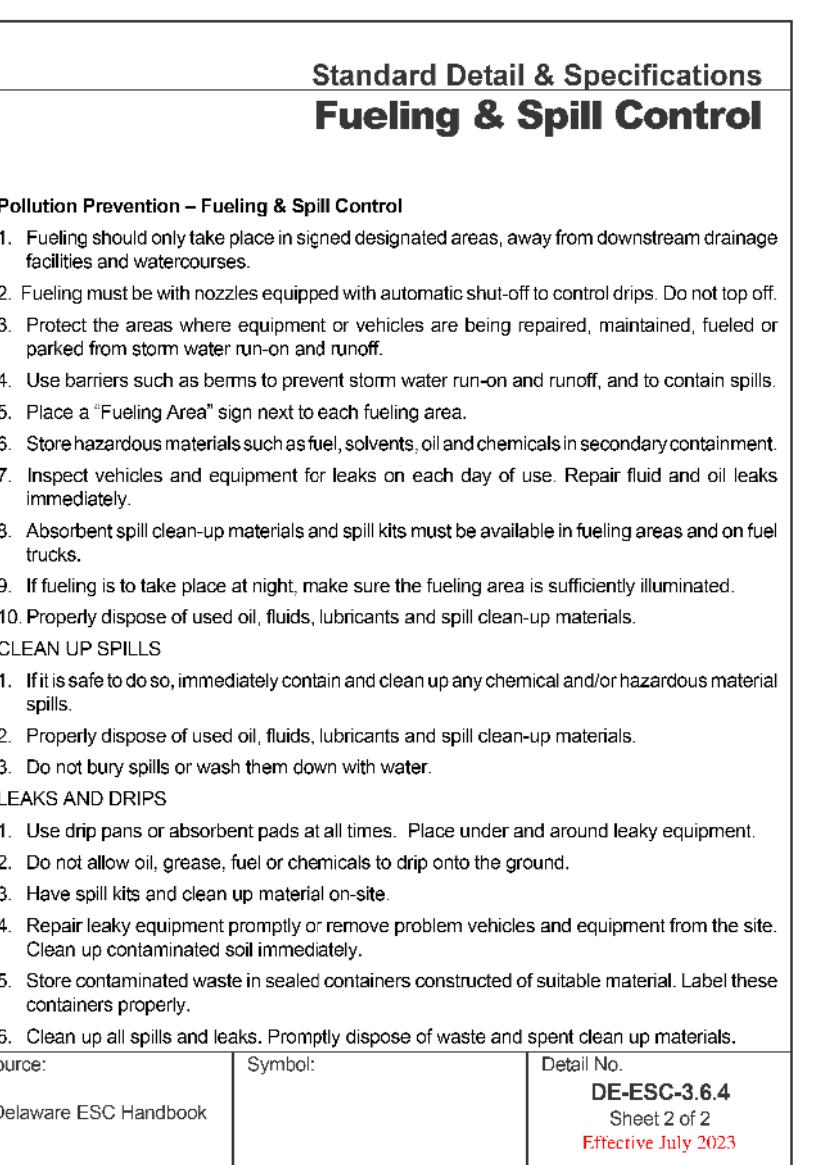
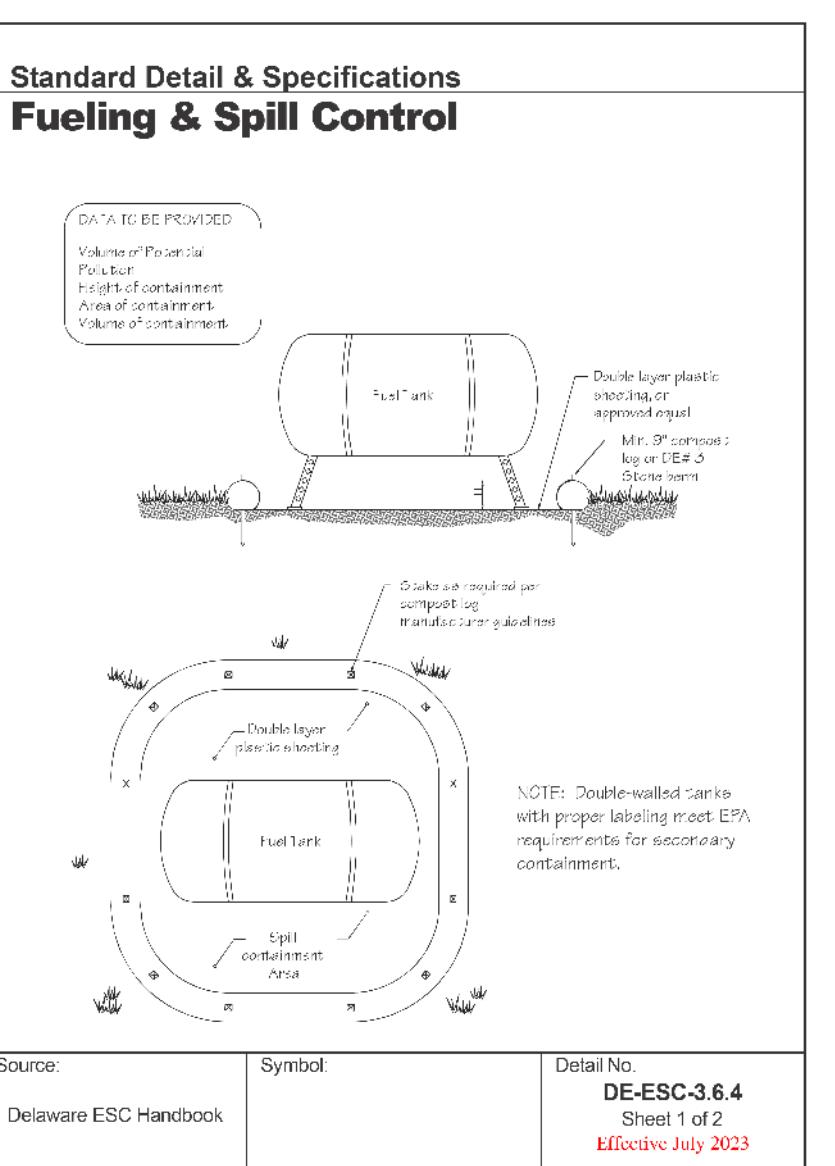
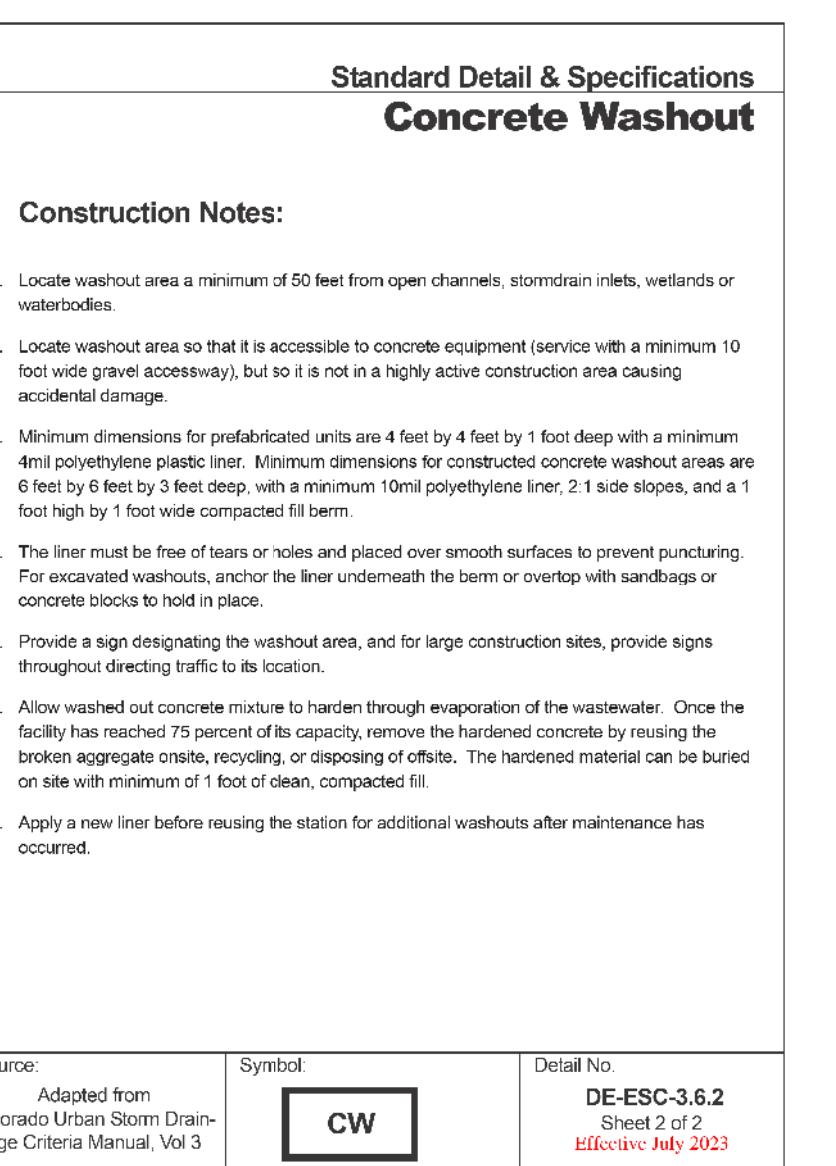
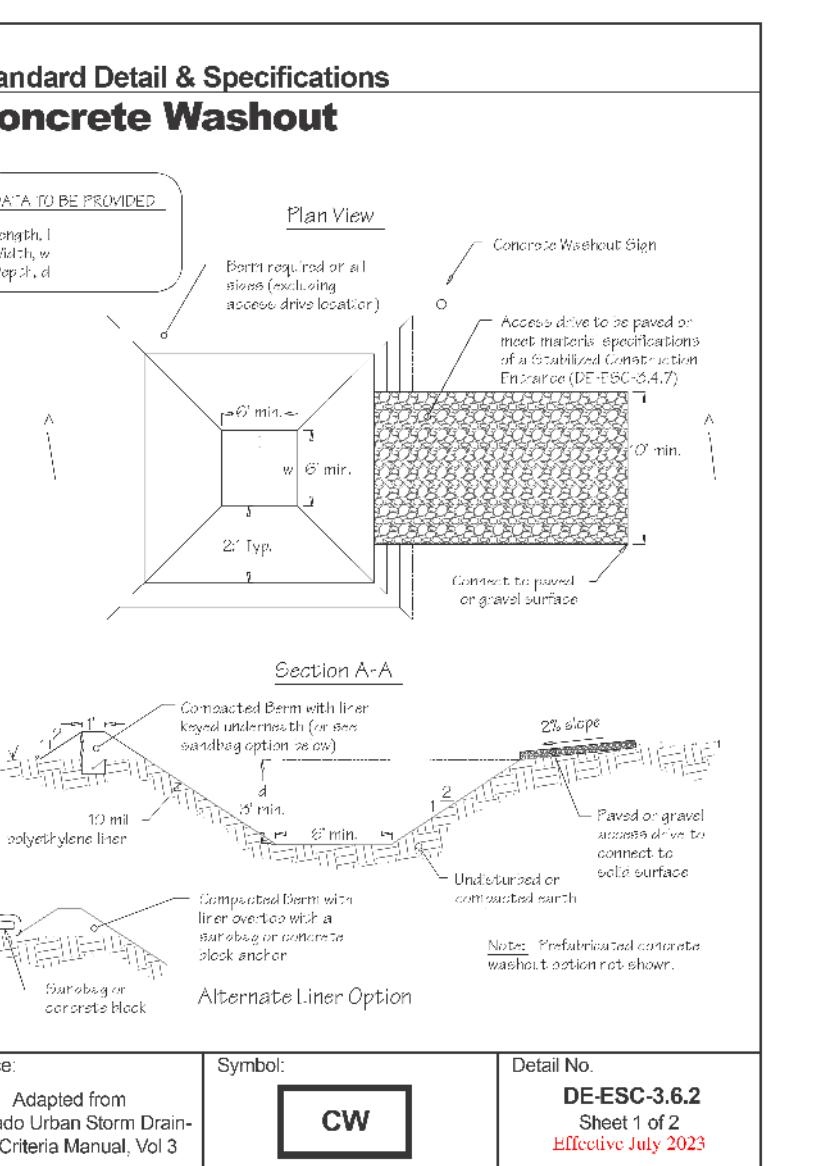
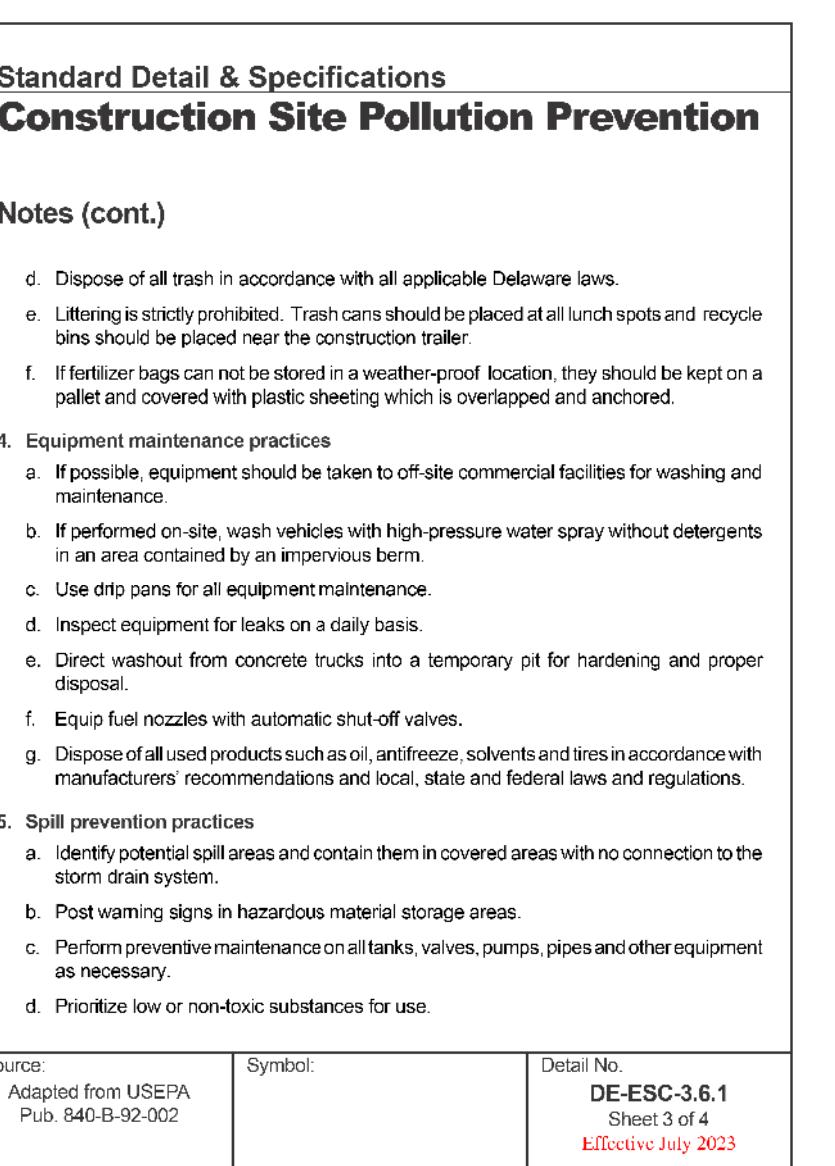
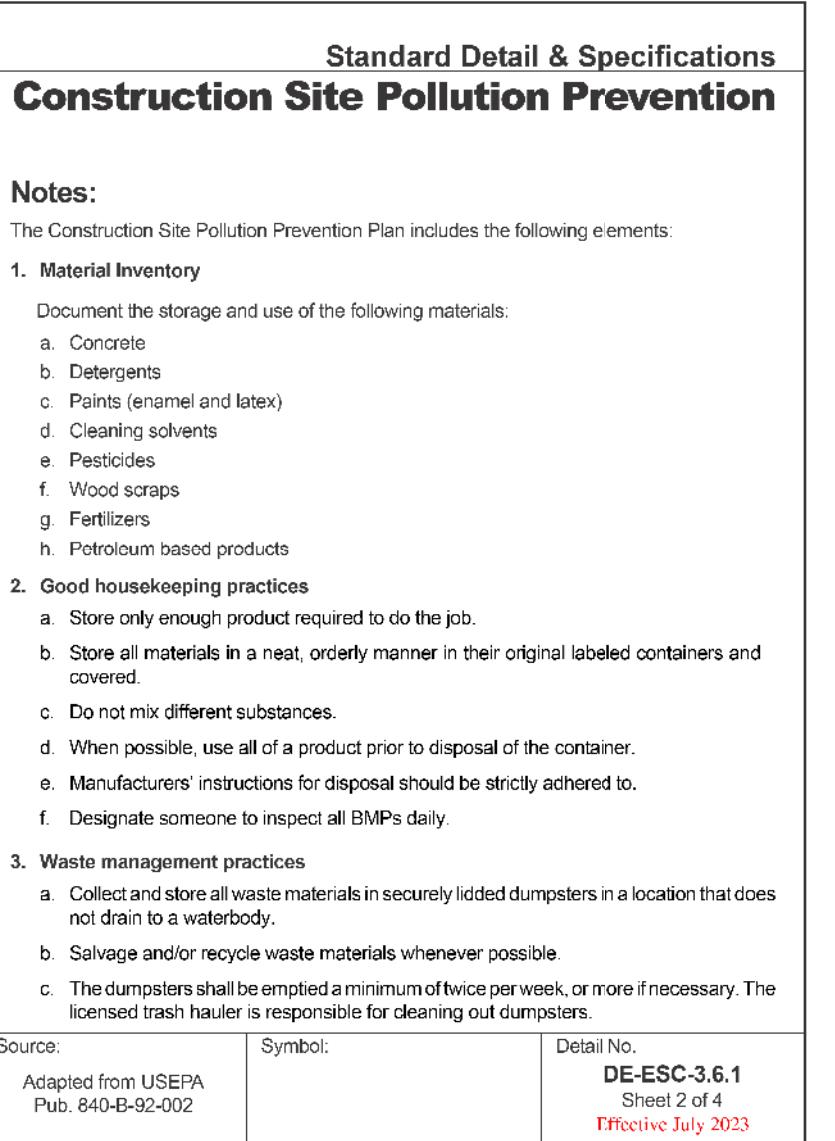
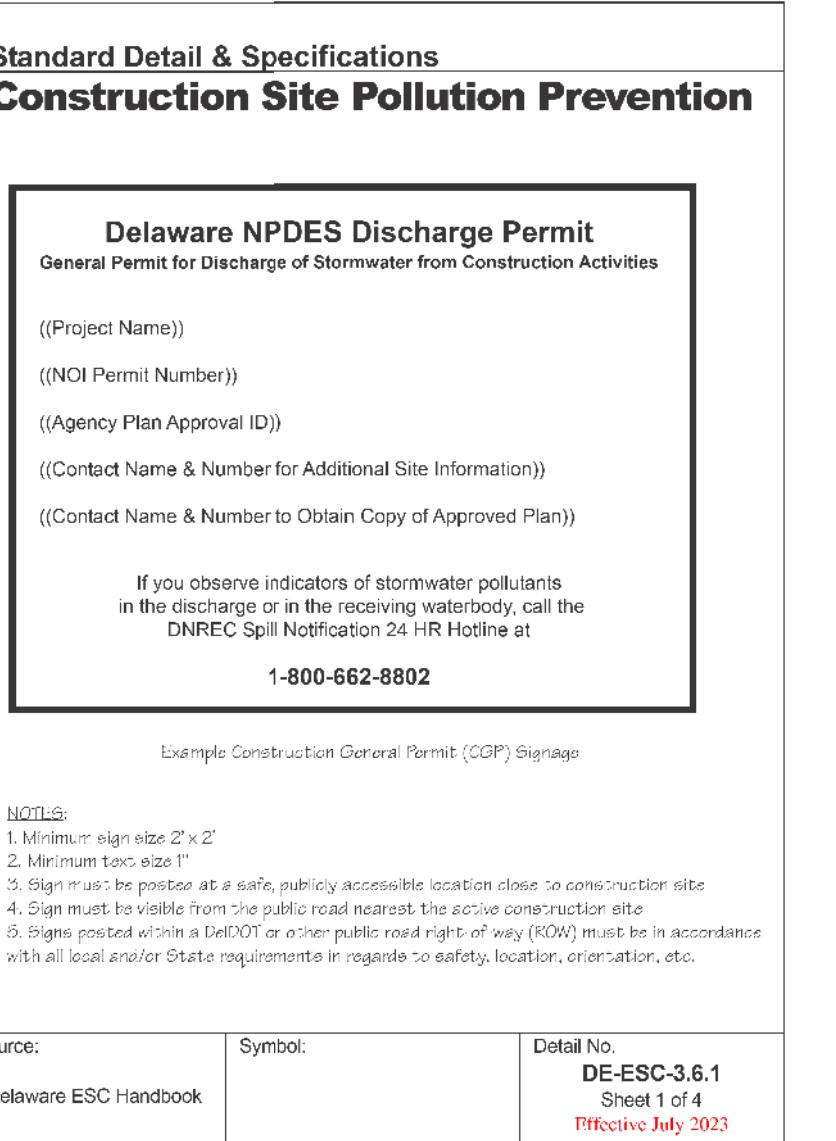
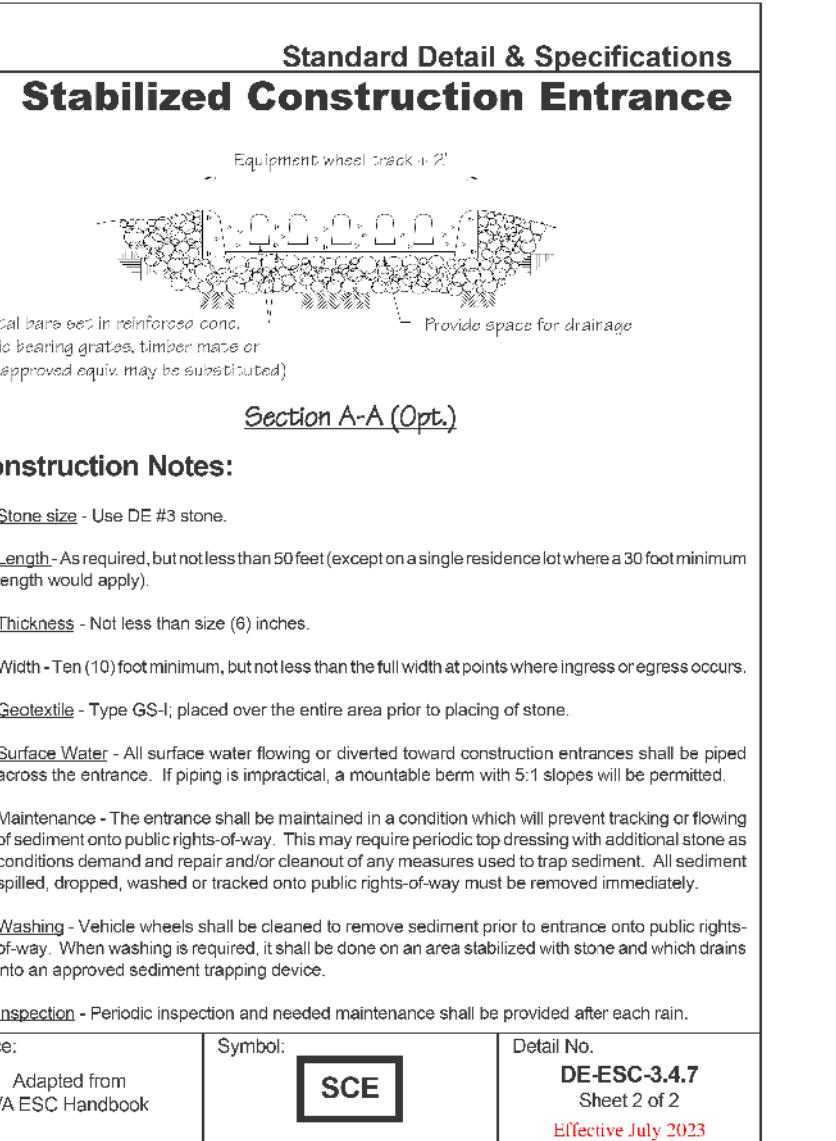
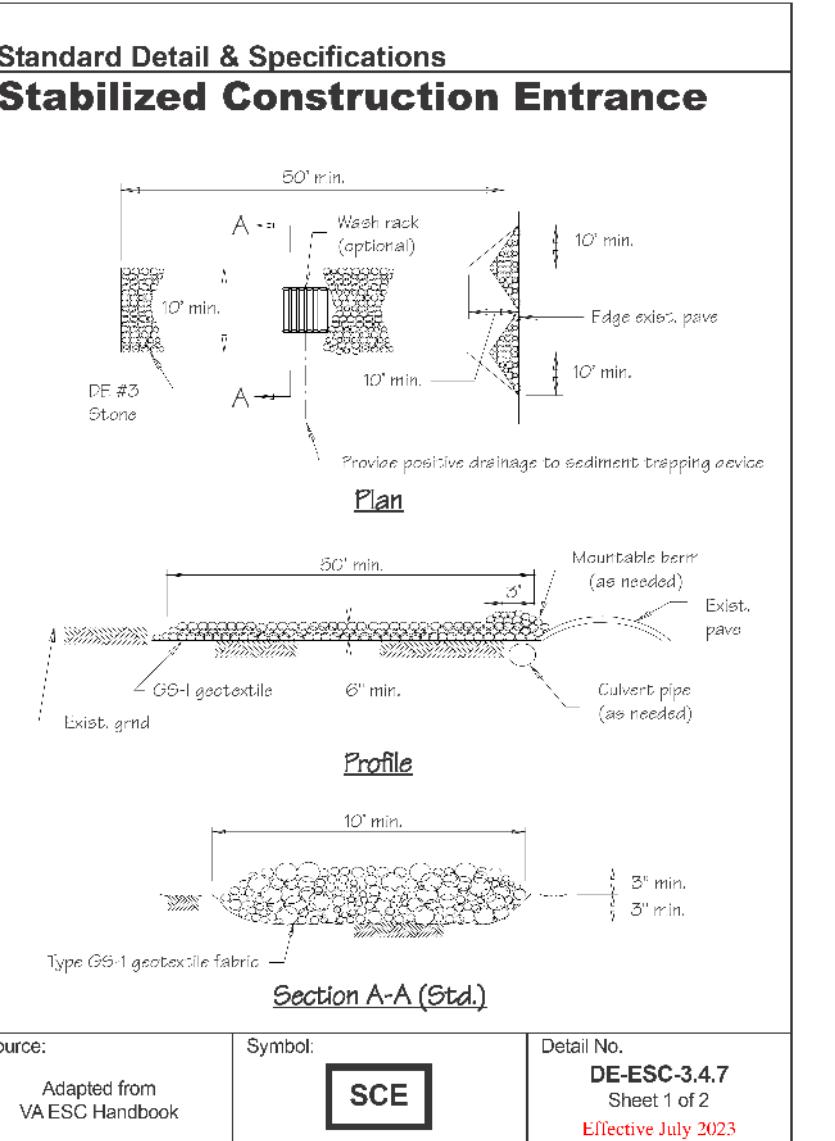
- THE DNREC SEDIMENT AND STORMWATER PROGRAM (OR THE RELEVANT DELEGATED AGENCY) SHALL BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSION IN THE APPROVED PLAN.
- IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND FORMATTER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC OR THE DELEGATED AGENCY.
- FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN FOURTEEN (14) CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION.
- AT ANYTIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
- APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM DATE OF APPROVAL.
- POST CONSTRUCTION VERIFICATION DOCUMENTS SHALL BE SUBMITTED TO THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY) WITHIN SIXTY (60) DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
- APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ECT., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- THE NOTICE OF INTENT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS # (TO BE FILLED IN ONCE RECEIVED). THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT.
- THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LAIDEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVITY CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ON SITE.
- BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGE IN ACCORDANCE WITH REQUIREMENTS OF 7 DEL. C. CH. 62 AND CURRENT DELAWARE CONSTRUCTION GENERAL PERMIT (CGP).
- DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENTS TAGS, ECT. SHALL BE PROVIDED TO THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY) TO VERIFY THAT PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN.
- THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY) MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH SPECIFICATIONS IN THE DELAWARE EROSIONS AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURE THAT PROVIDE FUNCTIONAL EQUIVALENCY.
- WHEN DIRECTED BY THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY), THE OWNER SHALL ACQUIRE THE SERVICES OF A THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER (CCR) TO PERFORM WEEKLY CONSTRUCTION REVIEWS. SEDIMENT AND STORMWATER PLANS APPROVED BY THE DEPARTMENT SHALL HAVE A THIRD PARTY CCR.
- THE TERMINATION OF CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE, ALL ELEMENTS OF SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PROGRAM.

AMOUNT OF DISTURBED AREA FOR THE PROJECT	0.84 AC
ADDED IMPERVIOUS FOR THE PROJECT	12,687 sf
HUC-10 WATERSHED	INLAND BAYS

GENERAL E&S SEQUENCE NOTES (FOR ALL PHASES)

- THE DNREC SEDIMENT AND STORMWATER PROGRAM (OR THE RELEVANT DELEGATED AGENCY) SHALL BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROLS MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AND CONDUCTED WITH THE AGENCY CONSTRUCTION SITE REVIEWER. THE LANDOWNER/DEVELOPER, CONTRACTOR, AND A THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER (CCR) ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
- POST NOI PERMIT COVERAGE SO THAT IT IS VISIBLE IN CLOSE PROXIMITY TO THE CONSTRUCTION SITE AS DIRECTED BY THE ENGINEER. THE NOTICE MUST BE IN ACCORDANCE WITH DELDOT GUIDANCE.
- CONTRACTOR IS TO INSTALL STABILIZED CONSTRUCTION ENTRANCE AND CLEAR AND GRUB THE AREAS NEEDED TO INSTALL THE PERIMETER CONTROLS.
- INSTALL PERMITTER CONTROLS. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
- CLEAR AND GRUB THE REMAINDER OF THE SITE.
- CONTRACTOR TO INSTALL BOARDWALK AS SHOWN ON THE PLANS USING A SANDBAG DIVERSION.
- COMPLETE THE REMAINDER OF THE PROJECT IMPROVEMENTS AS SHOWN ON THE PLANS.
- ONCE IMPROVEMENTS ARE COMPLETE AND WITH THE APPROVAL OF THE CERTIFIED CONSTRUCTION REVIEWER (CCR) THE CONTRACTOR IS TO INSTALL THE FILTER STRIPS. PER REQUIREMENTS SHOWN ON SHEETS 9-16 OF THE BMP HANDBOOK A PCVD IS REQUIRED.
- INSTALL PLANTINGS PER LANDSCAPING PLANS. COMPLETE PERMANENT STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS.
- ONCE CONSTRUCTION, STABILIZATION, STORMWATER MANAGEMENT AND LANDSCAPING ARE COMPLETE THE CONTRACTOR IS TO REQUEST A FINAL CONSTRUCTION REVIEW.
- PERFORM ANY PUNCH LIST ITEMS FROM FINAL CONSTRUCTION REVIEW.
- WITH THE APPROVAL OF THE CERTIFIED CONSTRUCTION REVIEWER (CCR) REMOVE EROSION AND SEDIMENT CONTROL DEVICES.

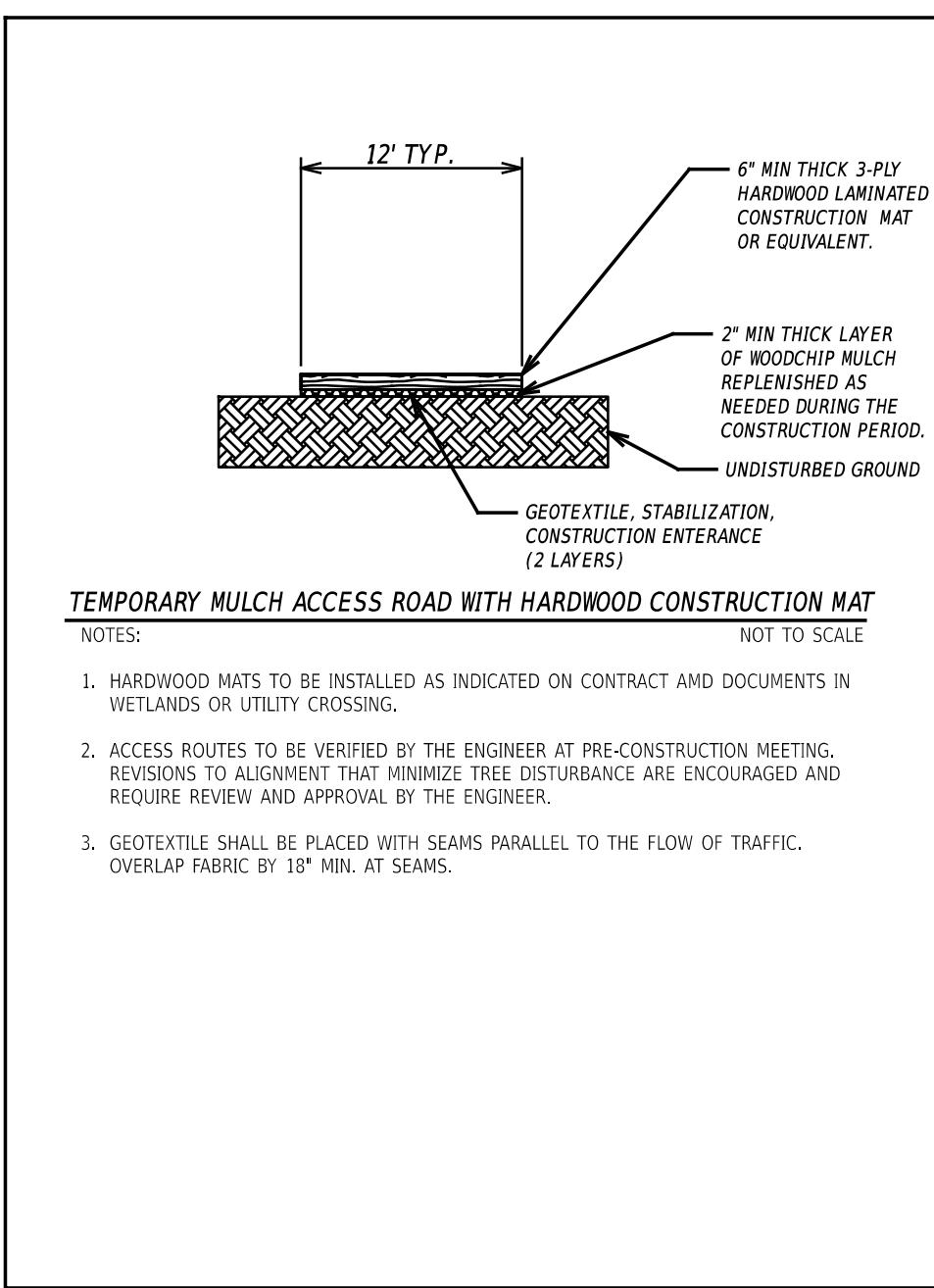
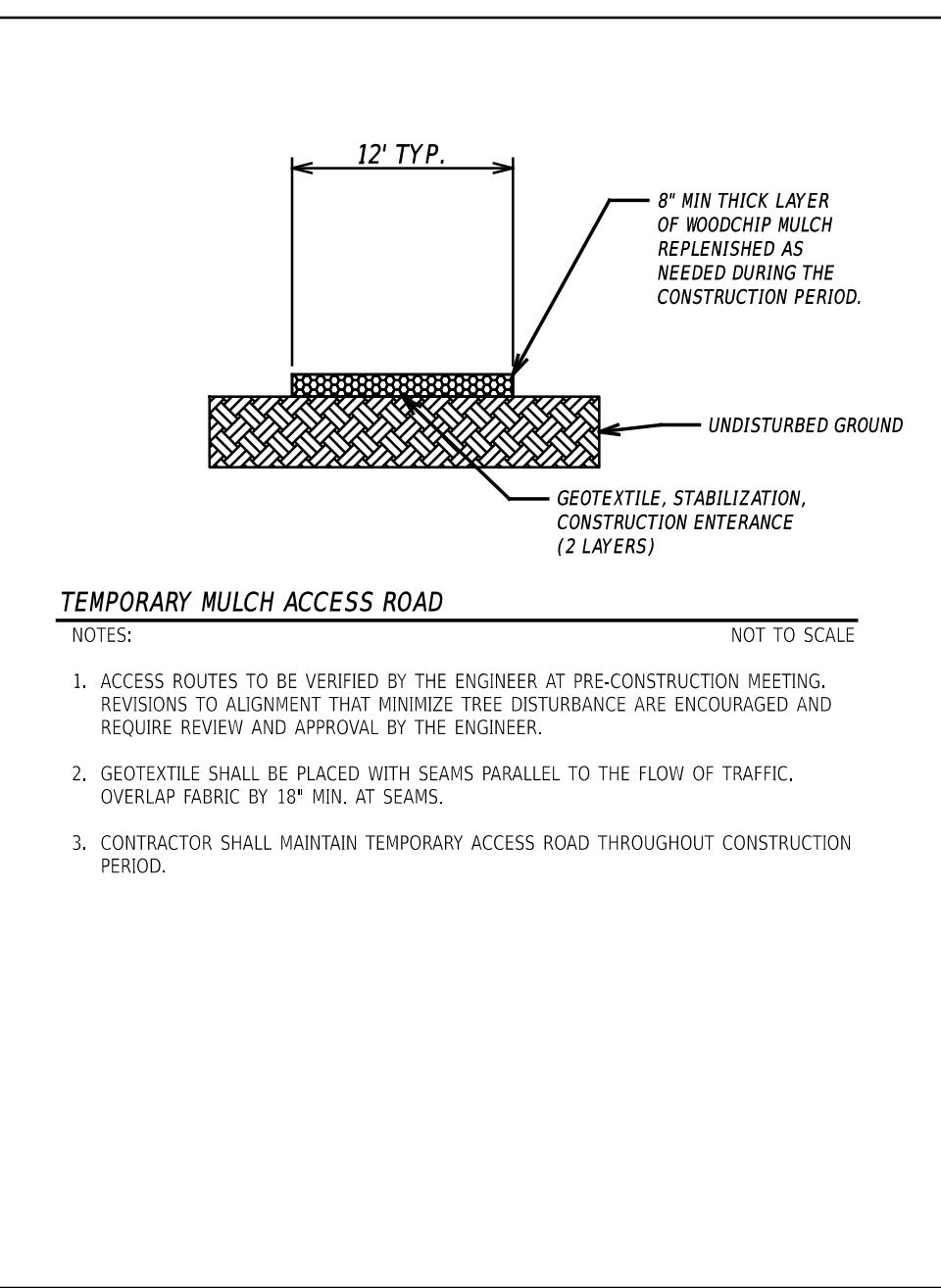
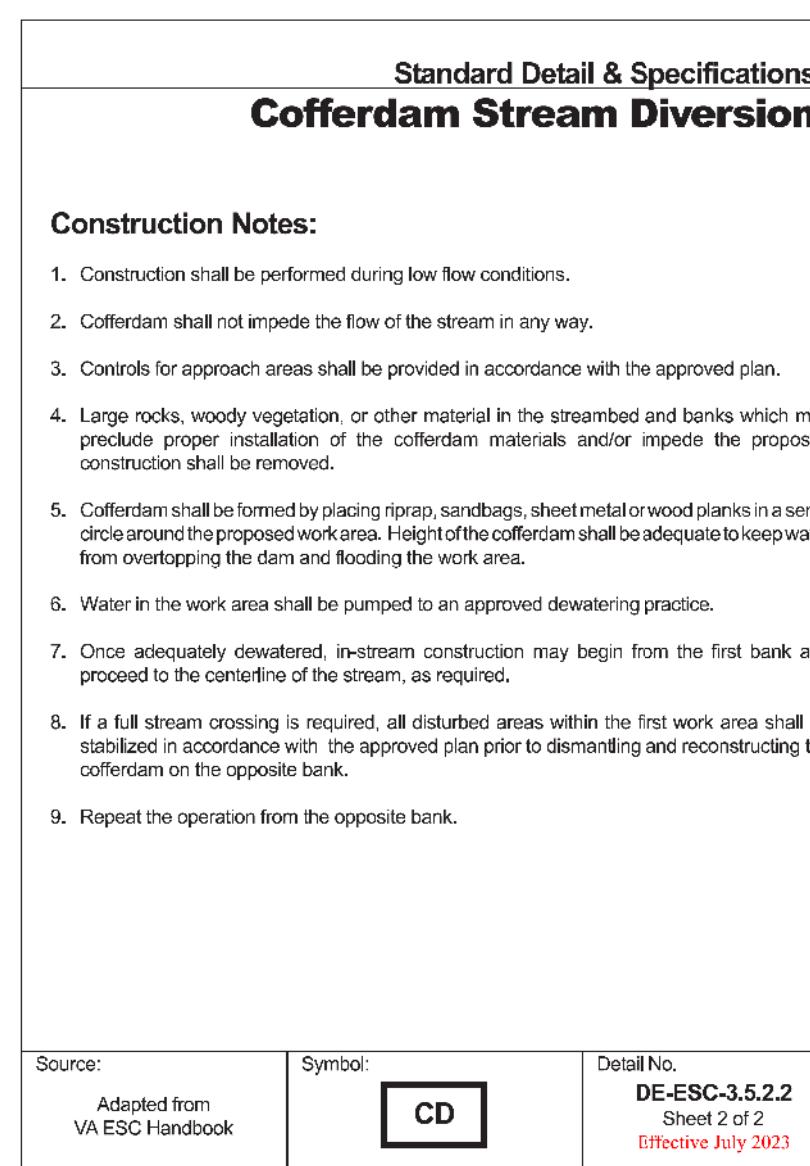
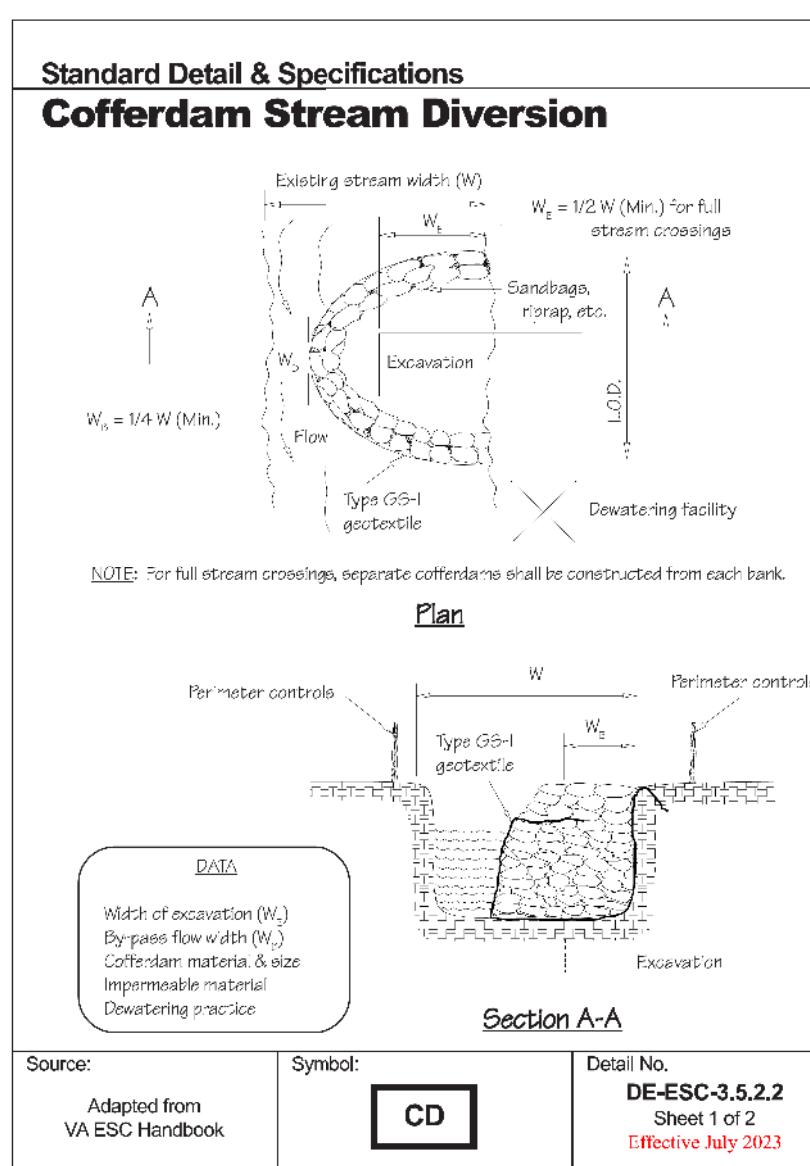
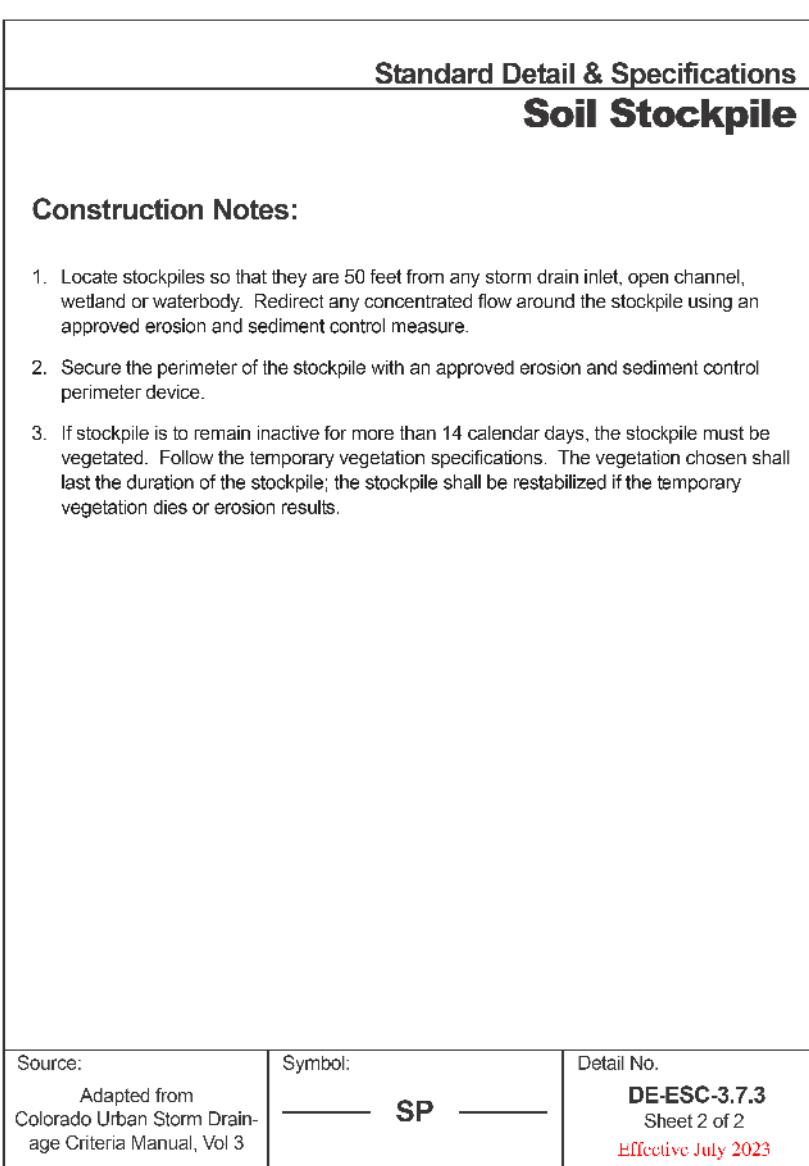
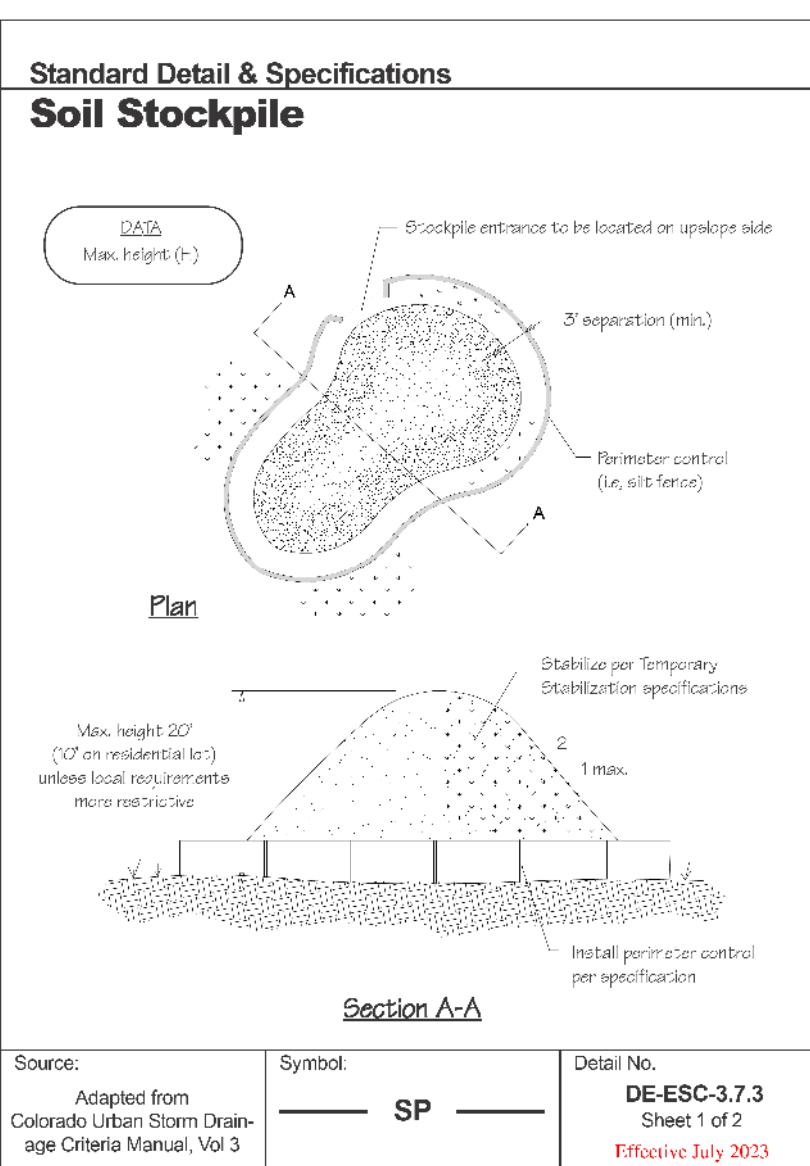


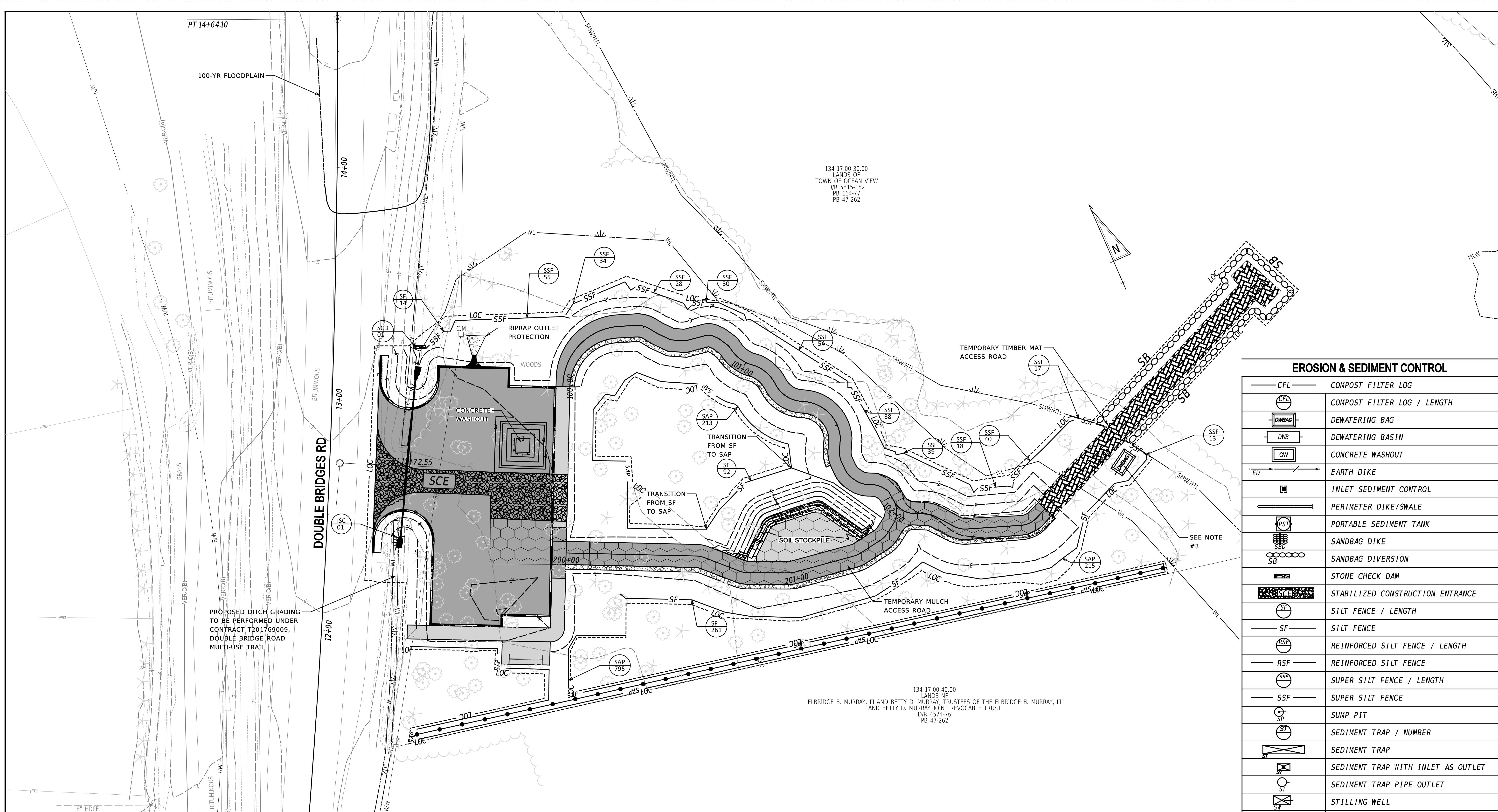


NOT TO SCALE

BERZINS NATURE PARK & TRAIL

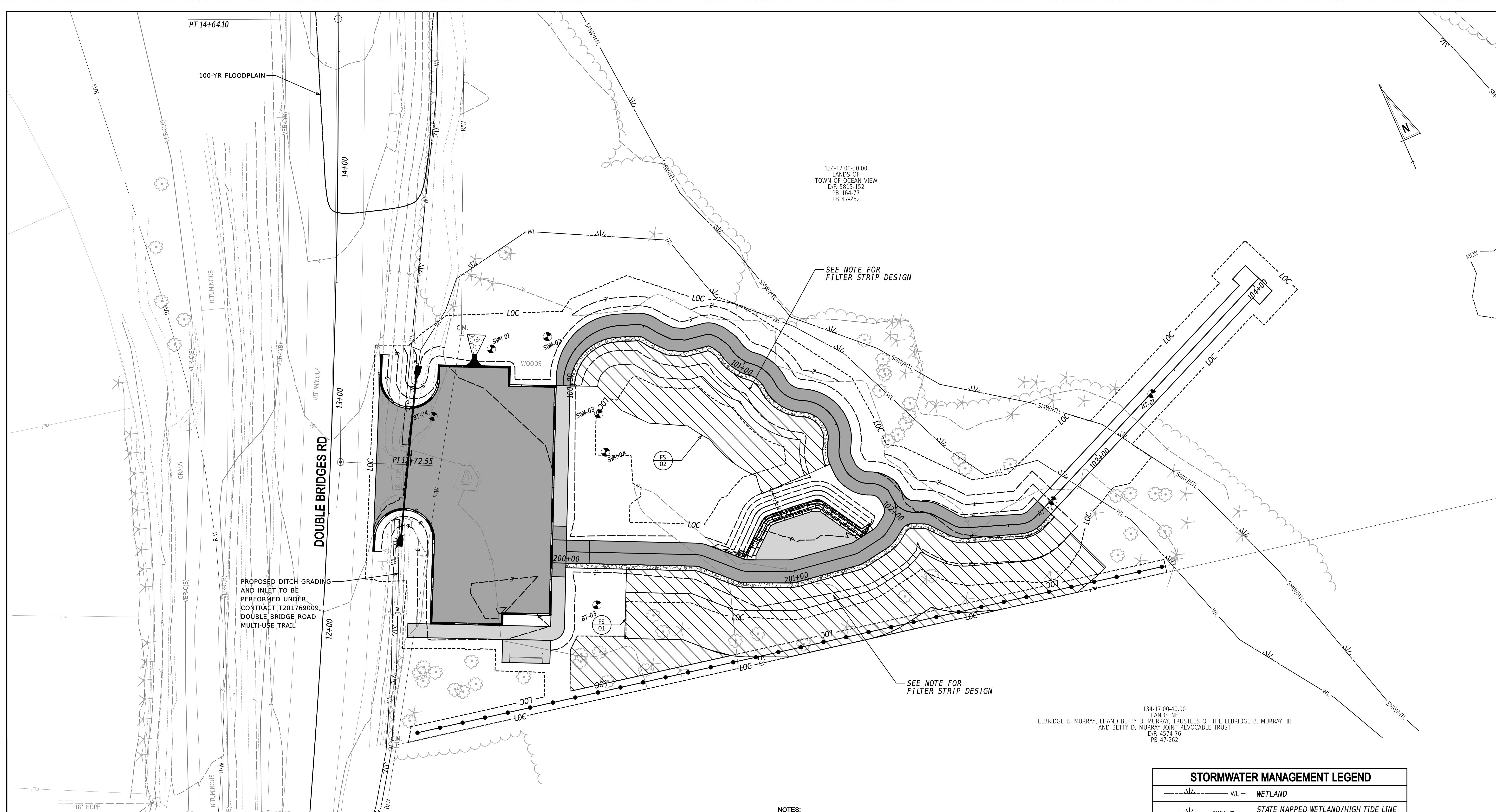
CONTRACT	BRIDGE NO.	N/A	SECTION
T20232007			
COUNTY		DESIGNED BY: G.TRIPP	
SUSSEX		CHECKED BY: K. GULATI	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN
			WM
			SHEET NO.
			21





EROSION & SEDIMENT CONTROL

CFL	COMPOST FILTER LOG
	COMPOST FILTER LOG / LENGTH
	DEWATERING BAG
	DEWATERING BASIN
	CONCRETE WASHOUT
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	REINFORCED SILT FENCE / LENGTH
	REINFORCED SILT FENCE
	SUPER SILT FENCE / LENGTH
	SUPER SILT FENCE
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN
	SENSITIVE AREA PROTECTION
	TEMPORARY MULCH ACCESS ROAD
	TEMPORARY TIMBER MAT ACCESS ROAD



PREPARED BY

THIS SEAL APPLIES TO ALL SHEETS
BEARING THE "SW" SECTION DESIGNATION

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN OF THESE PLANS MEETS THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS."

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN OF THESE PLANS MEETS THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS."

SWM FACILITY SCHEDULE

NC

1. REFER TO LANDSCAPING PLAN, SHEET LS-01 FOR THE EXTENT OF SEEDING FOR FILTER STRIP. AREAS SHOWN OUTSIDE THE LOC SHALL BE CONSTRUCTED BY HAND PER THE NOTES ON PLAN SHEET LS-01.
 2. THE FILTER STRIP EXTENT IS SHOWN BOTH WITHIN AND OUTSIDE THE LOC ON THIS SHEET. FOR CONSTRUCTION CONSISTENCY WITH THE DESIGN, WORK OUTSIDE THE LOC SHALL RECEIVE PERMANENT SEEDING ONLY PER THE LANDSCAPING PLAN. WHILE ANY WORK SHOWN WITHIN THE LOC SHALL FOLLOW THE OPERATION AND MAINTENANCE PLAN.
 3. SEE CP-01 FOR RIPRAP OUTLET PROTECTION DIMENSIONS.

BERZINS NATURE PARK & TRAIL

STORMWATER MANAGEMENT LEGEND	
	WL — WETLAND
	SWM/HTL — STATE MAPPED WETLAND/HIGH TIDE LINE (MEAN HIGH WATER)
	MLW — MEAN LOW WATER
	100-YR FLOODPLAIN
	EXISTING TREE LINE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	GRAVEL DIAPHRAGM
	FILTER STRIP

GENERAL STORMWATER MANAGEMENT (SWM) NOTES

- THE TOWN OF OCEAN VIEW IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITY.
- THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR SUSSEX CONSERVATION DISTRICT RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR THE PURPOSE OF PERIODIC SITE REVIEWS.
- THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR SUSSEX CONSERVATION DISTRICT SHOULD BE NOTIFIED WITHIN 30 BUSINESS DAYS IF THE PROPERTY OWNERSHIP IS TRANSFERRED TO A NEW PERSON OR ENTITY.
- THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR SUSSEX CONSERVATION DISTRICT MAY SEEK ENFORCEMENT ACTION AGAINST ANY OWNER DEEMED NEGLIGENT IN FULFILLING THE OPERATION AND MAINTENANCE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
- THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR SUSSEX CONSERVATION DISTRICT SHOULD BE CONTACTED IF A CONCERN ARISES REGARDING A STORMWATER MANAGEMENT FACILITY, BEFORE ANY NON-ROUTINE MAINTENANCE, OR MODIFICATIONS TO THE FACILITY ARE DESIRED.
- ANY DESIGN MODIFICATIONS MADE TO THE STORMWATER SYSTEM SHALL REQUIRE THE CREATION OF A NEW POST CONSTRUCTION STORMWATER MANAGEMENT PLAN AND/OR OPERATIONS AND MAINTENANCE PLAN, WITH APPROVAL OF THE PLAN(S) BY DNREC SEDIMENT AND STORMWATER PROGRAM OR THE SUSSEX CONSERVATION DISTRICT.
- WHEN THE FACILITY IS EXCAVATED TO REMOVE ACCUMULATED SEDIMENT, THE DISPOSAL AREA SHALL BE PERMANENTLY STABILIZED SO THAT IT DOES NOT RECREATE AN EROSION PROBLEM. ANY MATERIAL TAKEN OFF-SITE SHALL BE USED OR DISPOSED OF IN AN APPROVED DNREC MANNER.
- BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ON-SITE.

9.8 Sheet Flow Construction

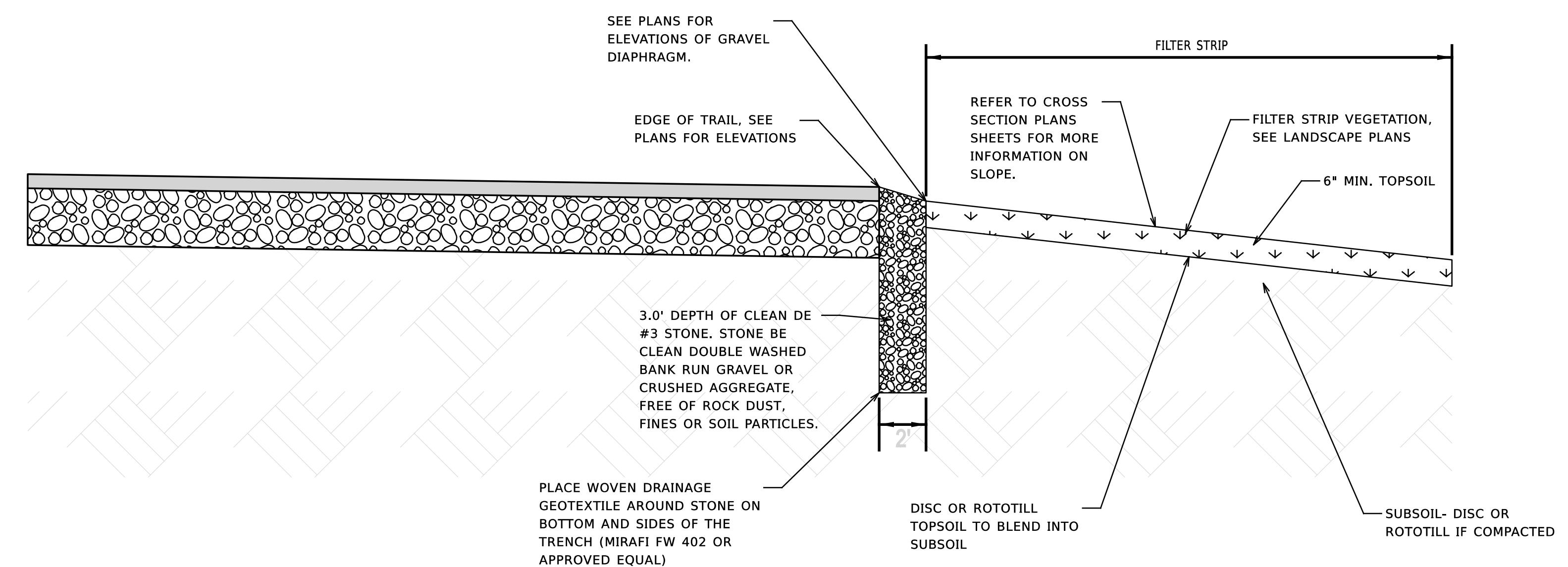
Construction Sequence for Vegetated Filter Strips. Vegetated Filter Strips can be within the limits of disturbance during construction. The following procedures should be followed during construction:

- Before site work begins, filter strip boundaries should be clearly marked.
- Only vehicular traffic used for filter strip construction should be allowed within the filter strip boundary.
- If existing topsoil is stripped during grading, it should be stockpiled for later use.
- Construction runoff should be directed away from the proposed filter strip site, using perimeter silt fence, or, preferably, a diversion dike.
- Construction of the gravel diaphragm or engineered level spreader should not commence until the contributing drainage area has been stabilized and perimeter erosion and sediment (E&S) controls have been removed and cleaned out.
- Filter strips require light grading to achieve desired elevations and slopes. This should be done with tracked vehicles to prevent compaction. Topsoil and/or compost amendments should be incorporated evenly across the filter strip area, stabilized with seed, and protected by biodegradable erosion control matting or blankets.
- Stormwater should not be diverted into the filter strip until the turf cover is dense and well established.
- For afforested filter strips, refer to *Specification 17. Afforestation*.

9.0 Sheet Flow to Vegetated Filter Strip or Vegetated Open Space

Typical Maintenance Items and Frequency for Sheet Flow to Filter Strips or Open Space

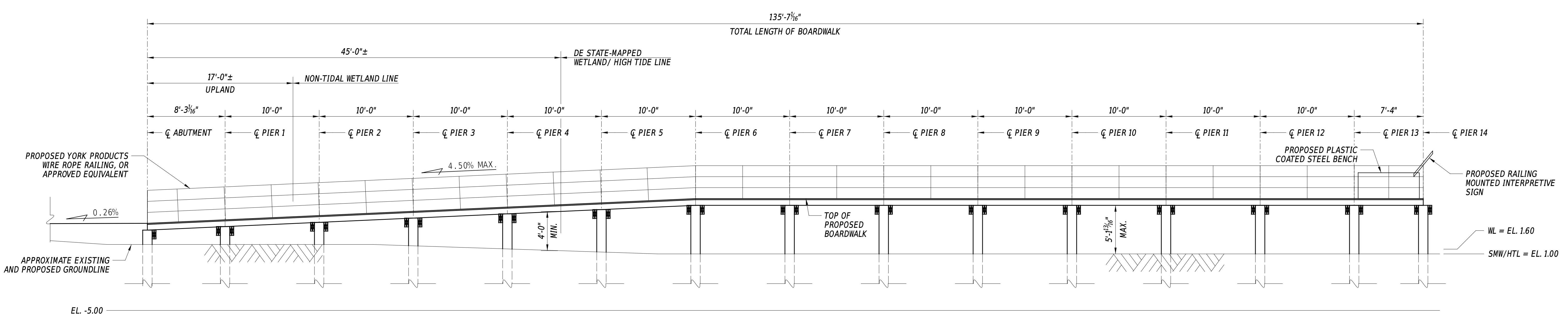
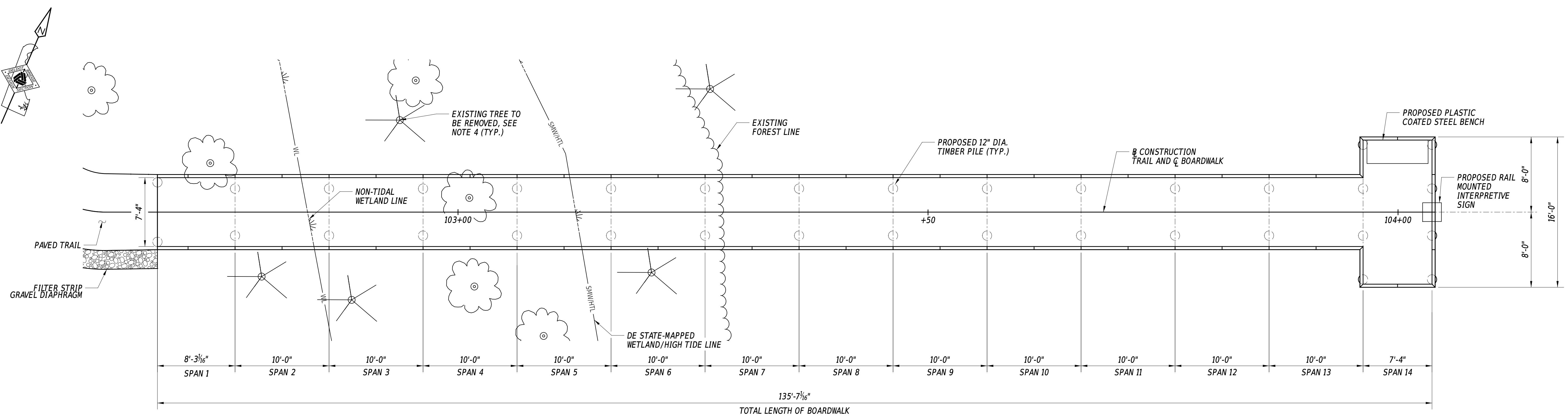
Frequency	Maintenance Items
During establishment, as needed (first year)	<ul style="list-style-type: none"> Inspect the site after storm event that exceeds 0.5 inches of rainfall. Stabilize any bare or eroding areas Water trees and shrubs during the first growing season. In general, water every 3 days for first month, and then weekly during the remainder of the first growing season (April - October), depending on rainfall.
Quarterly or after major storms (>1 inch of rainfall)	<ul style="list-style-type: none"> Repair-eroded, and/or bare soil areas
Twice a year	<ul style="list-style-type: none"> Mowing of the grassed filter strip or grassed open space Inspect and treat for invasive species as needed
Annually	<ul style="list-style-type: none"> Remove trash and debris A full maintenance review



FILTER STRIP TYPICAL SECTION
NOT TO SCALE

VEGETATED FILTER STRIP SEQUENCE OF CONSTRUCTION

- CONTRACTOR SHALL INSTALL SENSITIVE AREA PROTECTION FENCING AROUND EACH FACILITY LOCATION.
- CONTRACTOR SHALL CONTACT THE CCR AT LEAST 3 WORKING DAYS BEFORE CONSTRUCTION OF THE FILTER STRIP COMMENCES SO THE CCR CAN BE ON-SITE. SEE CCR RESPONSIBILITY IN GENERAL E&S CONTROL NOTES.
- DRAINAGE AREA TO FACILITY IS TO BE STABILIZED OR TEMPORARILY DIVERTED AROUND THE FACILITY PRIOR TO INSTALLATION AND UNTIL THE SITE IS STABILIZED.
- BEFORE SITE WORK BEGINS, FILTER STRIP BOUNDARIES SHOULD BE CLEARLY MARKED.
- ONLY VEHICULAR TRAFFIC USED FOR FILTER STRIP CONSTRUCTION SHOULD BE ALLOWED WITHIN THE FILTER STRIP BOUNDARY.
- CONSTRUCTION RUNOFF SHOULD BE DIRECTED AWAY FROM THE PROPOSED FILTER STRIP SITE, USING PERIMETER SITE FENCE OR PREFERABLY A DIVERSION DIKE.
- CONSTRUCTION OF THE GRAVEL DIAPHRAGM SHALL NOT COMMENCE UNTIL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND PERIMETER EROSION AND SEDIMENT (E&S) CONTROLS HAVE BEEN REMOVED AND CLEANED OUT.
- FILTER STRIPS REQUIRE LIGHT GRADING TO ACHIEVE DESIRED ELEVATIONS AND SLOPES. THIS SHOULD BE DONE BY USING A TRACKED VEHICLES TO PREVENT COMPACTION. TOPSOIL AND OR COMPOST AMENDMENTS SHOULD BE INCORPORATED EVENLY ACROSS THE FILTER STRIP AREA. STABILIZED WITH SEED AND PROTECTED BY BIODEGRADABLE EROSION CONTROL MATING BLANKETS.
- STORMWATER SHOULD NOT BE DIVERTED INTO FILTER STRIP UNTIL THE TURF COVER IS DENSE AND WELL ESTABLISHED.
- AN AS-BUILT SURVEY MUST BE PERFORMED AND THE REQUIRED STORMWATER POST-CONSTRUCTION VERIFICATION SUBMISSION SHALL BE SUBMITTED TO DNREC SEDIMENT AND STORMWATER PROGRAM AFTER FINAL COMPLETION OF THE FACILITY FOR FINAL APPROVAL PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.



NOTES:

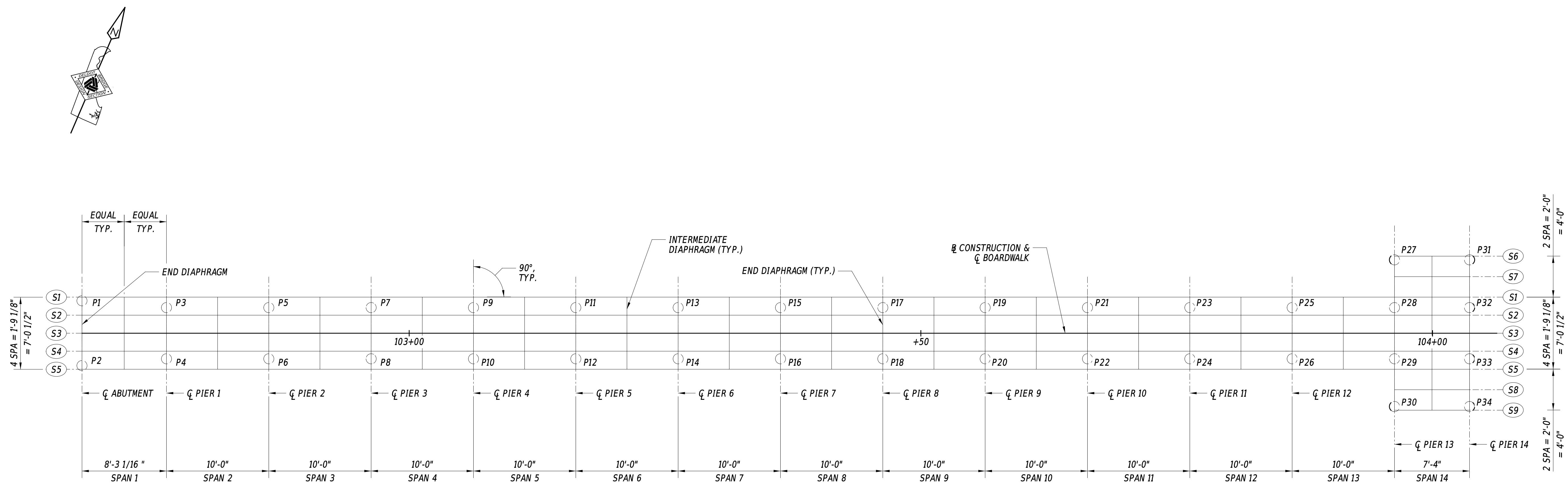
1. FOR TYPICAL SECTIONS, SEE SHEET NO. 28.
2. FOR INTERPRETIVE SIGN DETAILS, SEE SHEETS NO. 31 AND 32.
3. FOR FOUNDATION AND FRAMING PLAN, SEE SHEET NO. 27.
4. CLEAR AND GRUB ALL TRESS WITHIN THE LOC UNLESS OTHERWISE NOTED. GRUBBING SHALL NOT OCCUR WITHIN THE WETLAND AREAS. SEE LANDSCAPING PLAN ON SHEET NO. 35 FOR DETAILS.

ADDENDA / REVISIONS	

SCALE AS NOTED

BERZINS NATURE PARK & TRAIL

CONTRACT	BRIDGE NO.	N/A	BOARDWALK GENERAL PLAN AND ELEVATION
T20232007			
COUNTY	DESIGNED BY: EJS		
SUSSEX	CHECKED BY: EMC		



FRAMING PLAN

SCALE: $\frac{3}{16}'' = 1'-0''$

LEGEND:

(○) 12" DIA. PILE

PX PILE NUMBER

(Sx) STRINGER NUMBER

PILE NO.	STATION	OFFSET	TOP OF BOARDWALK ELEVATION	TOP OF PILE ELEVATION
P1	102+68.02	3.17' LT.	4.24	3.53
P2	102+68.02	3.17' RT.	4.61	3.90
P3	102+76.28	2.50' LT.	5.06	4.35
P4	102+76.28	2.50' RT.	5.51	4.80
P5	102+86.28	2.50' LT.	5.96	5.25
P6	102+86.28	2.50' RT.	6.41	5.70
P7	102+96.28	2.50' LT.	6.87	6.15
P8	102+96.28	2.50' RT.	6.87	6.15
P9	103+06.28	2.50' LT.	6.87	6.15
P10	103+06.28	2.50' RT.	6.87	6.15
P11	103+16.28	2.50' LT.	6.87	6.15
P12	103+16.28	2.50' RT.	6.87	6.15
P13	103+26.28	2.50' LT.	6.87	6.15
P14	103+26.28	2.50' RT.	6.87	6.15
P15	103+36.28	2.50' LT.	6.87	6.15
P16	103+36.28	2.50' RT.	6.87	6.15
P17	103+46.28	2.50' LT.	6.87	6.15
P18	103+46.28	2.50' RT.	6.87	6.15
P19	103+56.28	2.50' LT.	6.87	6.15
P20	103+56.28	2.50' RT.	6.87	6.15

PILE NO.	STATION	OFFSET	TOP OF BOARDWALK ELEVATION	TOP OF PILE ELEVATION
P21	103+66.28	2.50' LT.	6.87	6.15
P22	103+66.28	2.50' RT.	6.87	6.15
P23	103+76.28	2.50' LT.	6.87	6.15
P24	103+76.28	2.50' RT.	6.87	6.15
P25	103+86.28	2.50' LT.	6.87	6.15
P26	103+86.28	2.50' RT.	6.87	6.15
P27	103+96.28	2.50' LT.	6.87	6.15
P28	103+96.28	2.50' RT.	6.87	6.15
P29	103+96.28	2.50' RT.	6.87	6.15
P30	103+96.28	7.17' RT.	6.87	6.15
P31	104+03.61	7.17' LT.	6.87	6.15
P32	104+03.61	2.50' LT.	6.87	6.15
P33	104+03.61	2.50' RT.	6.87	6.15
P34	104+03.61	7.17' RT.	6.87	6.15

PILE TYPE	MINIMUM EMBEDMENT (FT)	BEARING RESISTANCE (KSF)	LRFD DESIGN LOAD (KIPS)
12" DIA. TIMBER	19	67.4	10

PILE NOTES:

1. FOR IMPACT DRIVING, AN INITIAL SET OF THREE STRIKES WOULD BE MADE BY HAMMER AT 40 PERCENT ENERGY, FOLLOWED BY A 1-MINUTE WAIT PERIOD, THEN TWO SUBSEQUENT 3-STRIKE SETS AT 40 PERCENT ENERGY, WITH 1-MINUTE WAITING PERIODS, BEFORE INITIATING CONTINUOUS IMPACT DRIVING. IN ADDITION TO A SOFT START AT THE BEGINNING OF THE DAY FOR IMPACT PILE DRIVING, A SOFT START MUST ALSO BE USED AT ANY TIME FOLLOWING CESSION OF IMPACT PILE DRIVING FOR A PERIOD OF THIRTY MINUTES OR LONGER AND IF ANY INCREASE IN PILE INSTALLATION OR REMOVAL INTENSITY IS REQUIRED, BUILD UP POWER SLOWLY FROM A LOW ENERGY START-UP OVER A 20-MINUTE PERIOD TO WARN FISH TO LEAVE THE VICINITY. THIS BUILDUP SHALL OCCUR IN UNIFORM STAGES TO PROVIDE A CONTANT INCREASE IN OUTPUT. THIS SHOULD BE DONE IN ACCORDANCE WITH THE METHODS OUTLINED IN THE NMFS GARFO/FHWA BEST MANAGEMENT PRACTICES (BMP) MANUAL.

2. ALL IN-WATER WORK, INCLUDING DREDGING OR DISCHARGE OF FILL MATERIAL WILL BE UNDERTAKEN AT, OR APPROXIMATING, LOW TIDE AND USING LOW GROUND PRESSURE EQUIPMENT TO PREVENT COMPACTION. LOW GROUND PRESSURE IS DEFINED AS <3 PSI. WHERE CONSTRUCTION REQUIRES HEAVY EQUIPMENT OPERATION IN OR ACROSS WETLANDS OR MUDFLATS, THE EQUIPMENT SHALL BE PLACED ON CONSTRUCTION TIMBER MATS THAT ARE ADEQUATE TO SUPPORT THE EQUIPMENT; BE OPERATED ON DRY OR FROZEN WETLANDS SUCH THAT SHEAR PRESSURE DOES NOT CAUSE SUBLIMATION OF THE WETLANDS IMMEDIATELY BEHNEATH EQUIPMENT AND UPHEAVAL OF ADJACENT WETLANDS. CONSTRUCTION MATS MUST NOT BE DRAGGED INTO POSITION.

FOUNDATION NOTES:

- TOP OF FOOTING ELEVATIONS AS SHOWN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING AND/OR FABRICATING ANY FOUNDATION RELATED MATERIALS.
- CONTRACTOR SHALL SUBMIT IN WRITING ANY CHANGES IN TOP OF FOOTING ELEVATIONS FOR ENGINEER'S REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIALS AND DEBRIS FROM THE SITE.

MEMBER NOTES:

- ALL TIMBER STRINGERS SHALL BE 4x8.
- ALL TIMBER INTERMEDIATE DIAPHRAGMS SHALL BE 2x6.
- ALL TIMBER END DIAPHRAGMS SHALL BE 4x12.

NOTE:

- FOR GENERAL PLAN AND ELEVATION, SEE SHEET NO. 26.
- FOR TYPICAL SECTIONS, SEE SHEET NO. 28.

ADDENDA / REVISIONS

SCALE AS NOTED

BERZINS NATURE PARK & TRAIL

CONTRACT

T20232007

DESIGNED BY: EJS

SUSSEX

BRIDGE NO.

N/A

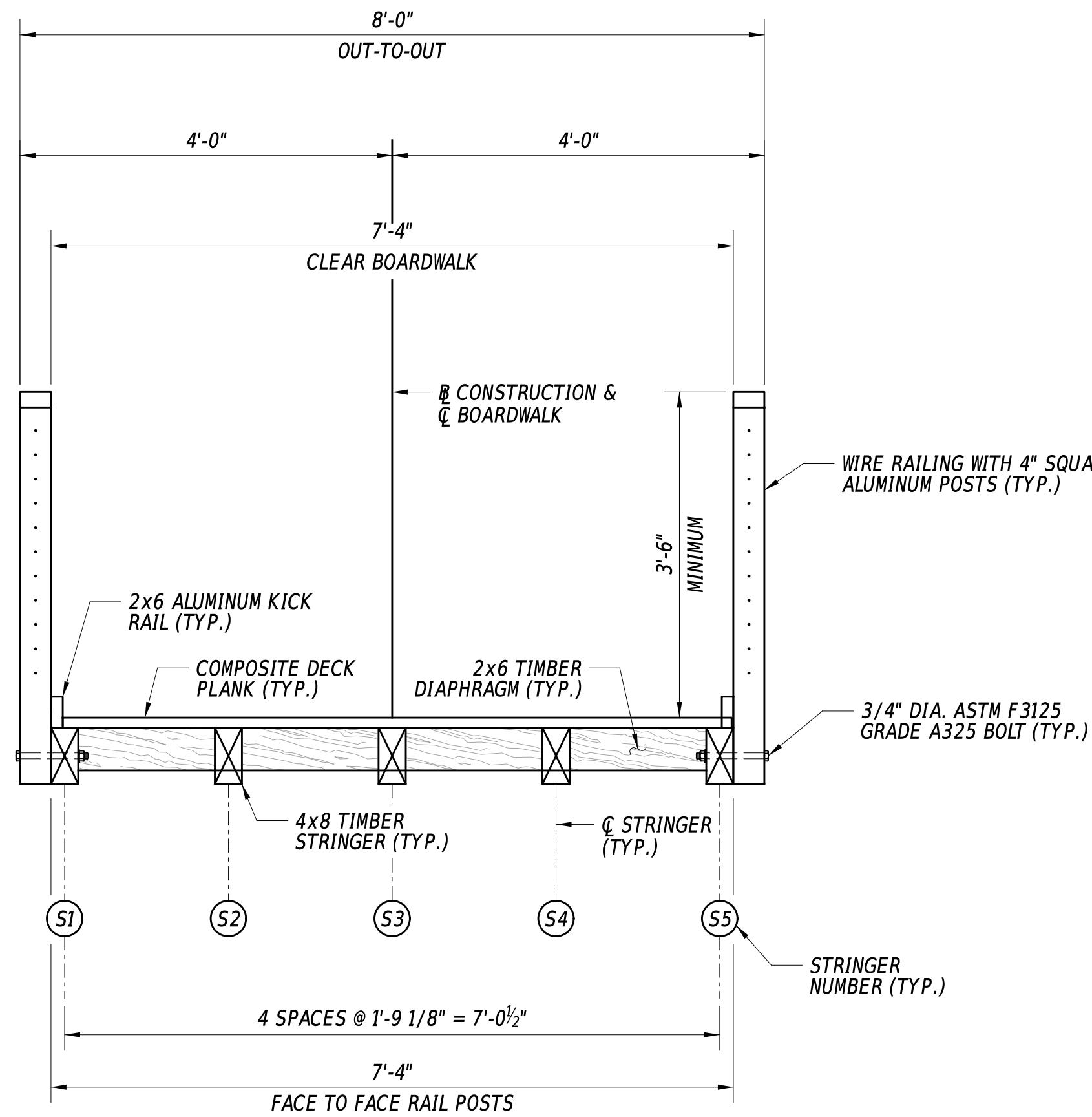
COUNTY

SUSSEX

CHECKED BY: EMC

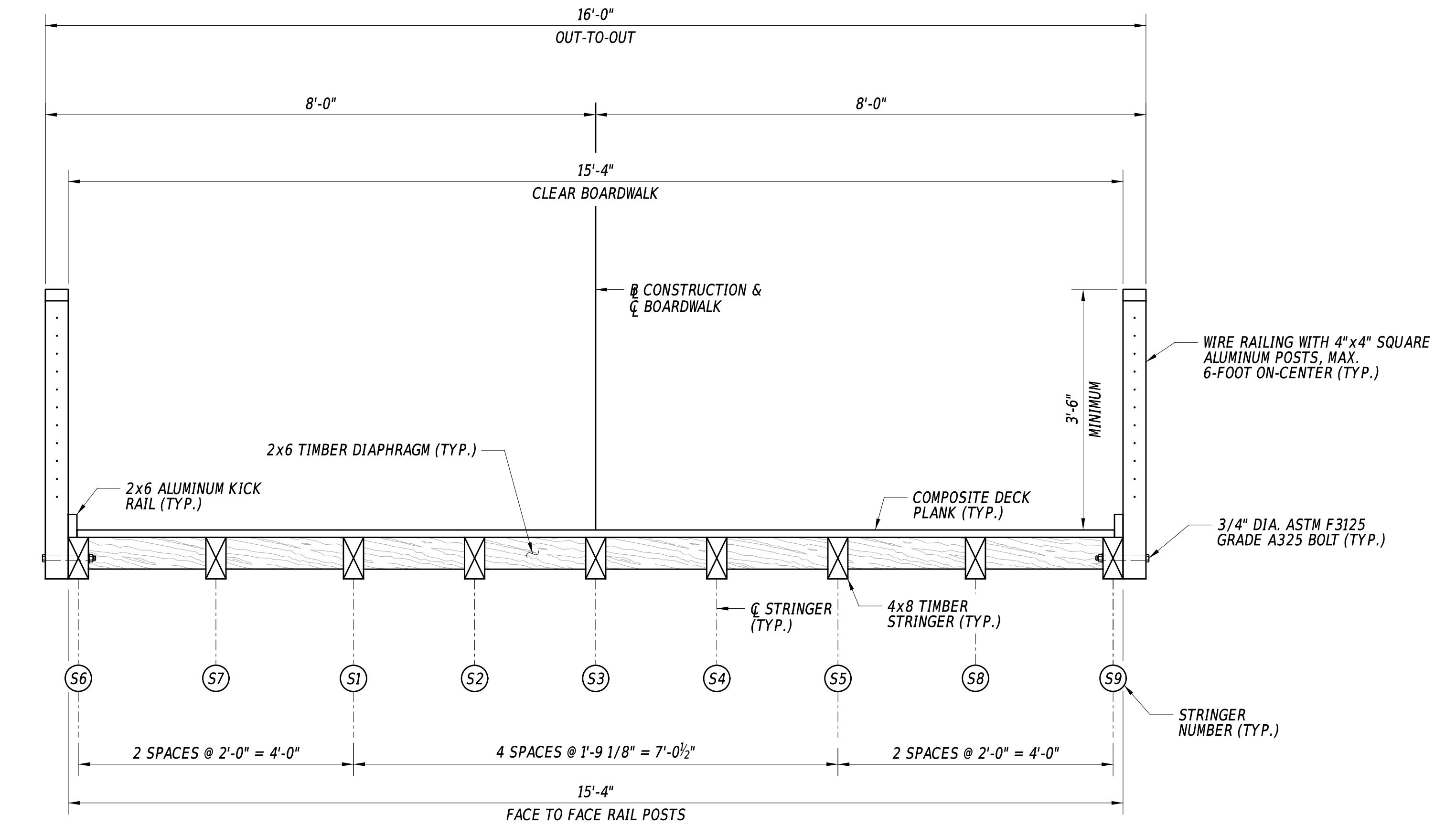
SECTION
WM
SHEET NO.

27



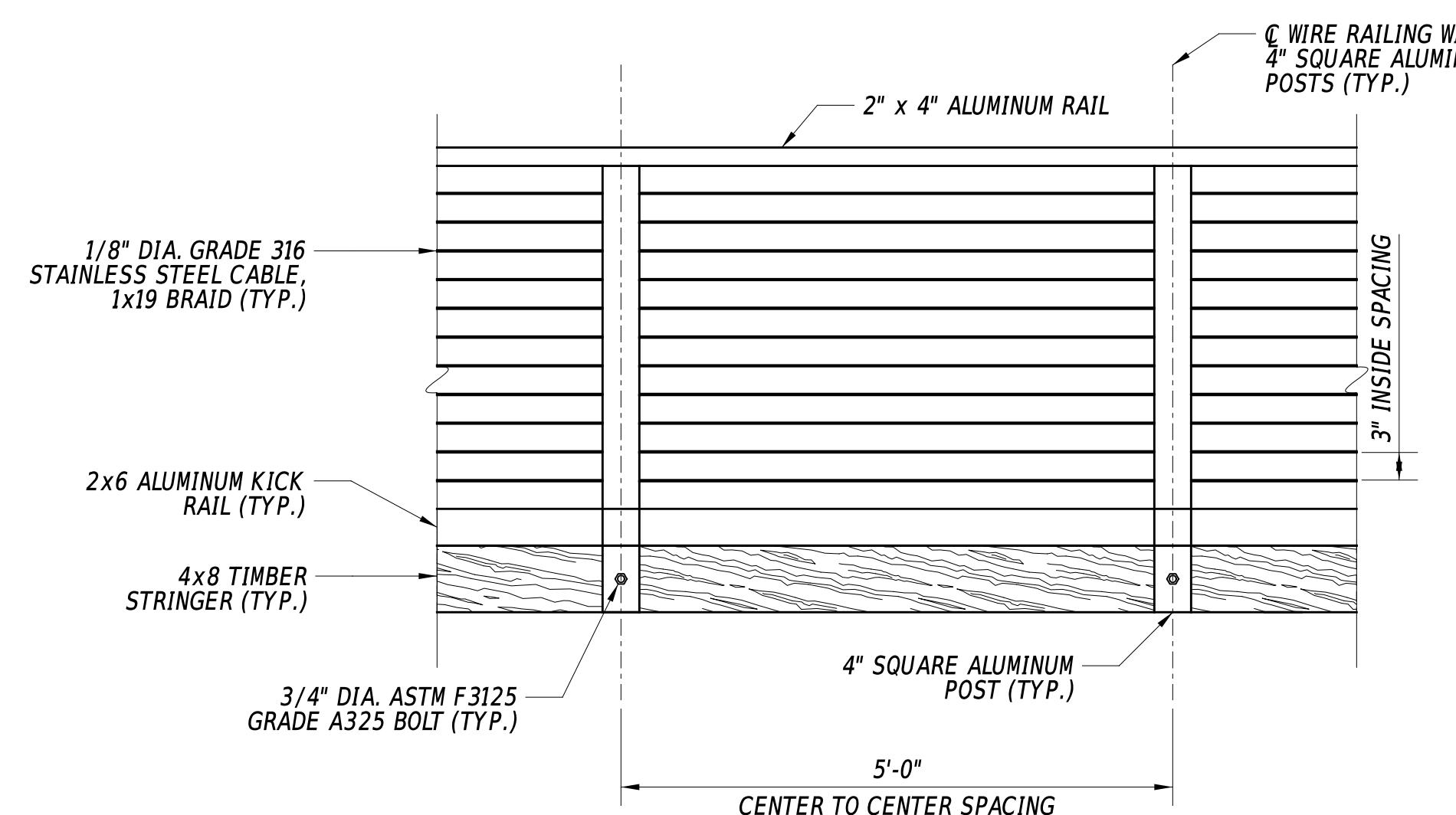
BOARDWALK TYPICAL SECTION

SCALE: $\frac{3}{4}'' = 1'-0''$



VIEWING PLATFORM TYPICAL SECTION

SCALE: $\frac{3}{4}'' = 1'-0''$



RAILING TYPICAL SECTION

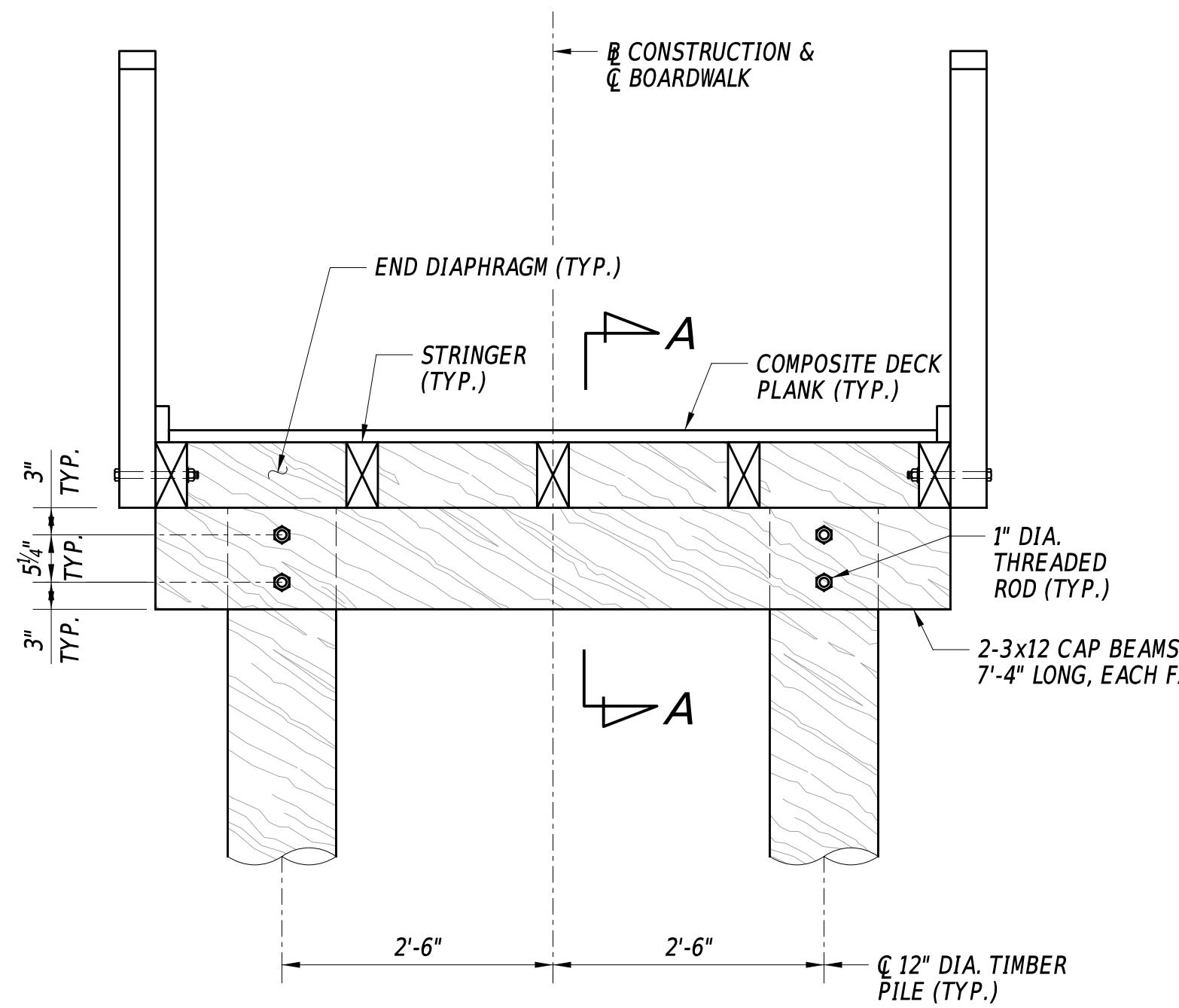
SCALE: $\frac{3}{4}'' = 1'-0''$

NOTES:

1. FOR GENERAL PLAN AND ELEVATION, SEE SHEET NO. 26.
2. RAILING SHALL BE 54" YORK BRIDGE PRODUCTS WIRE ROPE RAILING WITH ALUMINUM POSTS OR APPROVED EQUIVALENT.

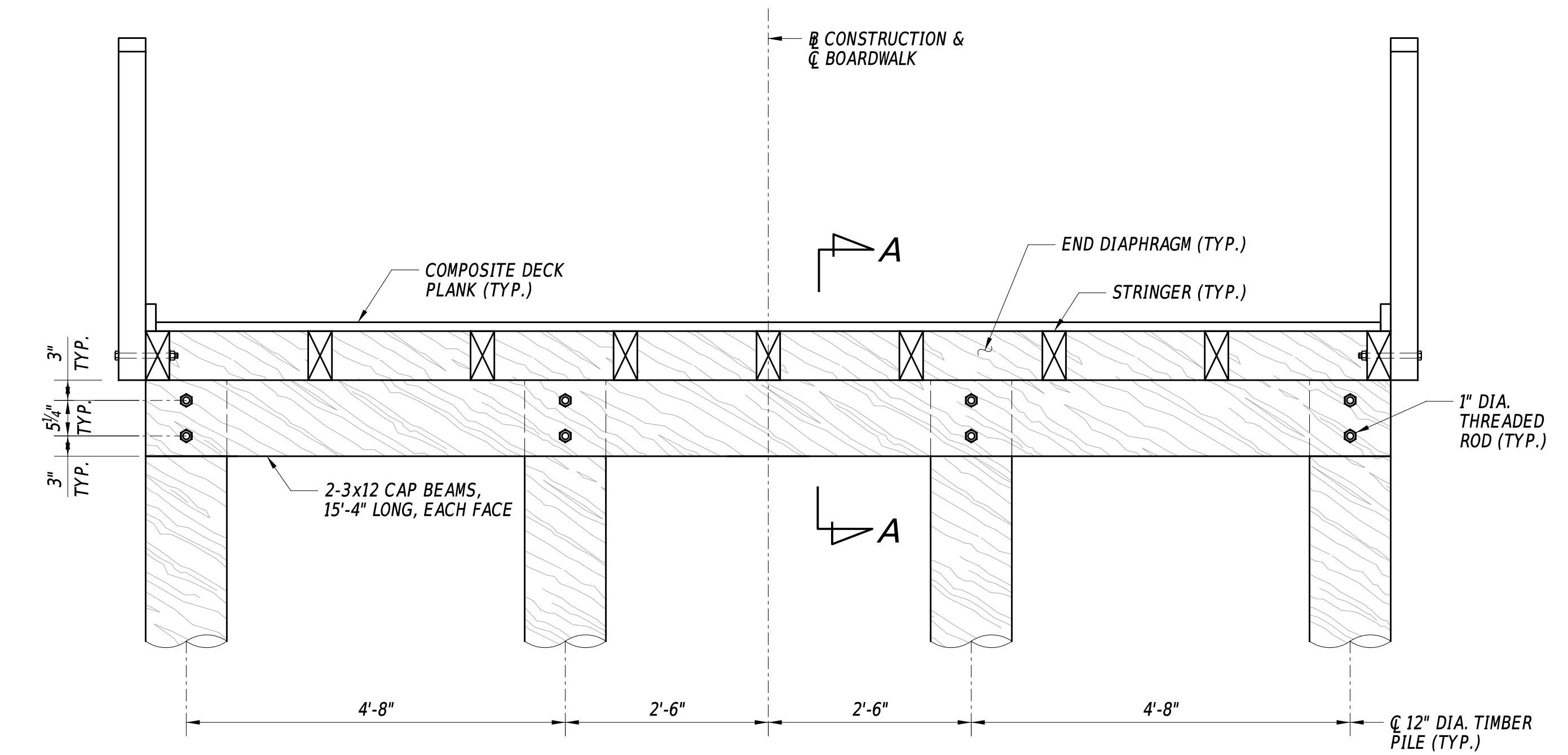
ADDENDA / REVISIONS	

CONTRACT	BRIDGE NO.	N/A	BOARDWALK TYPICAL SECTIONS
T20232007			
COUNTY	DESIGNED BY:	EJS	
SUSSEX	CHECKED BY:	EMC	



TYPICAL TIMBER PIER ELEVATION (BOARDWALK)

SCALE: $\frac{3}{4}'' = 1' - 0''$



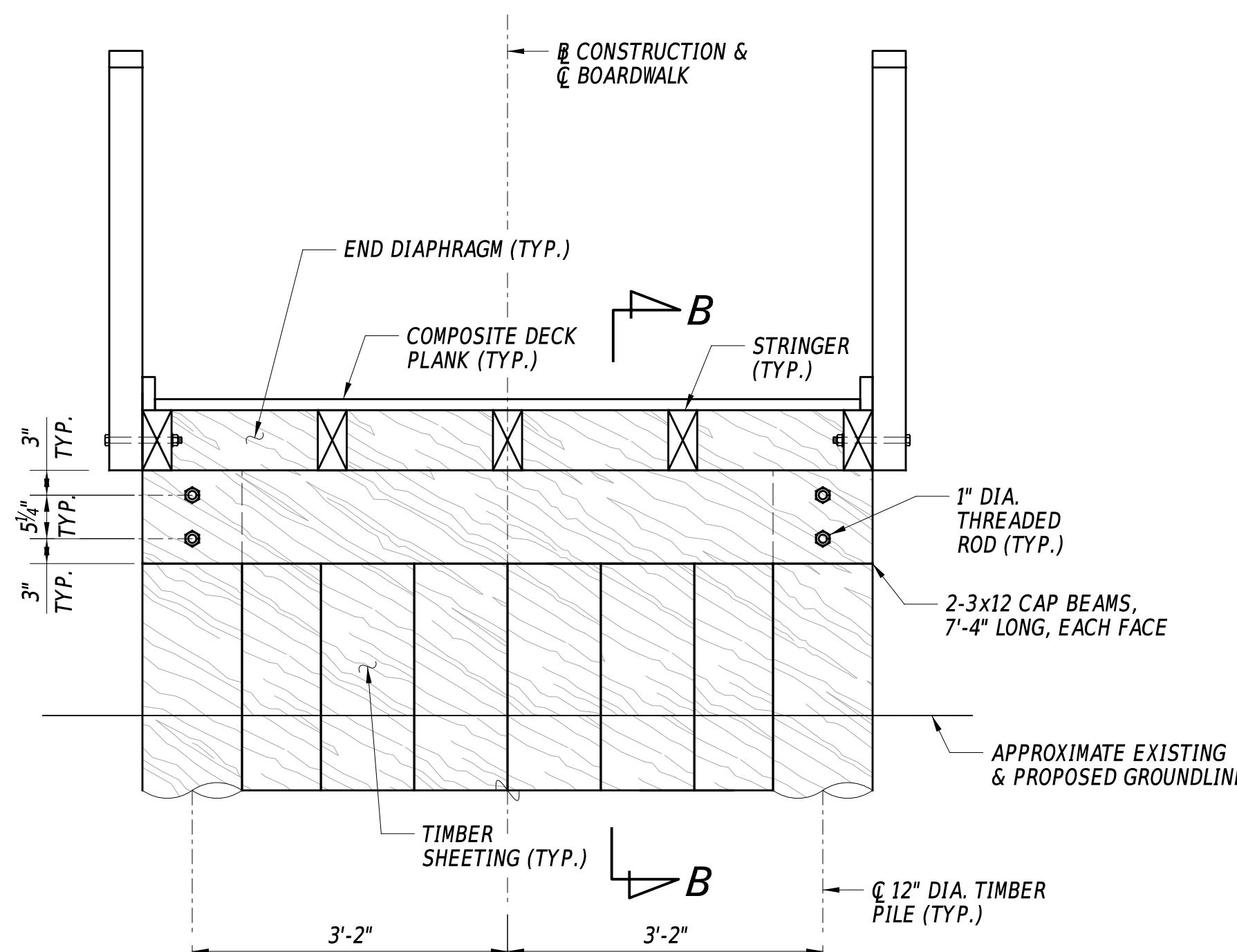
TYPICAL TIMBER PIER ELEVATION (VIEWING PLATFORM)

SCALE: $\frac{3}{4}'' = 1' - 0''$

PILE TIP DATA (LRFD)				
PILE TYPE	REQUIRED HAMMER ENERGY (FT-LB)	MINIMUM EMBEDMENT (FT)	LRFD DESIGN LOAD (KIPS)	MINIMUM DRIVING LOAD (Pu) (KIPS)
12" DIA. TIMBER	7,500 to 12,000	19	10	66

NOTES:

1. IF A HARD LAYER IS REACHED BEFORE MINIMUM EMBEDMENT IS ACHIEVED, PILES SHALL BE AUGERED INTO THE HARD LAYER. THE HARD LAYER SHALL BE DEFINED AS MATERIAL EQUIVALENT TO 50 BLOWS/6" WITH A 2" SAMPLING SPOON AND 140 POUND HAMMER.
2. PERFORM ONE TEST PILE AT THE ABUTMENT AND ONE TEST PILE AT EVERY THIRD PIER.
3. PILE DRIVING SHALL BE IN ACCORDANCE WITH SECTION 605 OF THE STANDARD SPECIFICATIONS.
4. PROVIDE PILE DRIVING ANALYZER (PDA) FOR ALL PRODUCTION AND TEST PILES.



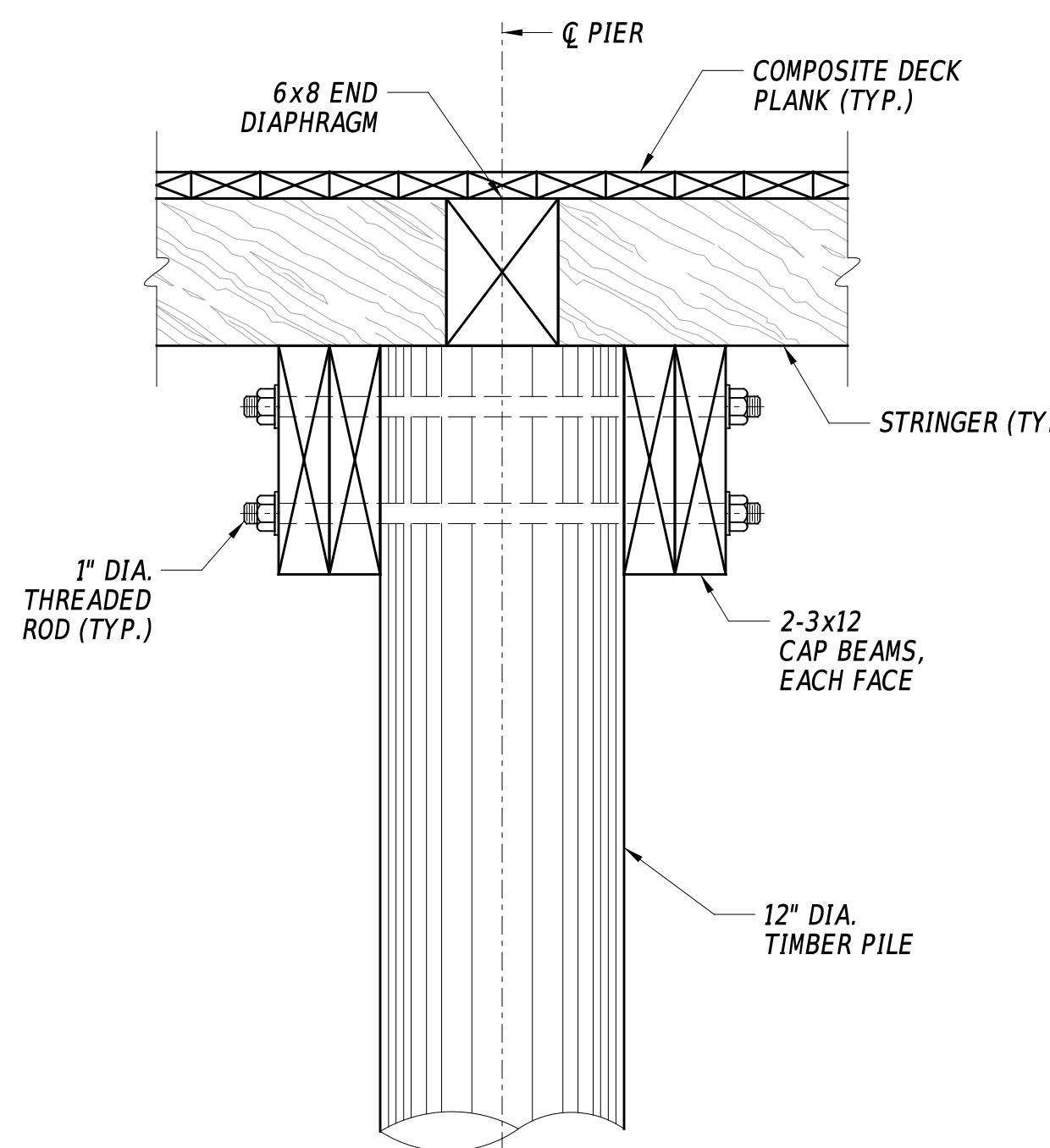
TYPICAL ABUTMENT ELEVATION

SCALE: $\frac{3}{4}'' = 1' - 0''$

NOTES:

1. FOR GENERAL PLAN AND ELEVATION, SEE SHEET NO. 26.
2. FOR TYPICAL SECTION, SEE SHEET NO. 28.
3. FOR SECTION A-A AND B-B, SEE SHEET NO. 30.

ADDENDA / REVISIONS	
16-DEC-2025	W:\\P\\01\\223010.000\\1Structures_Cadd\\DT04_BRSF_T20232007.dgn
14-DEC-2025	
13-DEC-2025	
12-DEC-2025	
11-DEC-2025	
10-DEC-2025	
9-DEC-2025	
8-DEC-2025	
7-DEC-2025	
6-DEC-2025	
5-DEC-2025	
4-DEC-2025	
3-DEC-2025	
2-DEC-2025	
1-DEC-2025	
30-NOV-2025	
29-NOV-2025	
28-NOV-2025	
27-NOV-2025	
26-NOV-2025	
25-NOV-2025	
24-NOV-2025	
23-NOV-2025	
22-NOV-2025	
21-NOV-2025	
20-NOV-2025	
19-NOV-2025	
18-NOV-2025	
17-NOV-2025	
16-NOV-2025	
15-NOV-2025	
14-NOV-2025	
13-NOV-2025	
12-NOV-2025	
11-NOV-2025	
10-NOV-2025	
9-NOV-2025	
8-NOV-2025	
7-NOV-2025	
6-NOV-2025	
5-NOV-2025	
4-NOV-2025	
3-NOV-2025	
2-NOV-2025	
1-NOV-2025	
30-OCT-2025	
29-OCT-2025	
28-OCT-2025	
27-OCT-2025	
26-OCT-2025	
25-OCT-2025	
24-OCT-2025	
23-OCT-2025	
22-OCT-2025	
21-OCT-2025	
20-OCT-2025	
19-OCT-2025	
18-OCT-2025	
17-OCT-2025	
16-OCT-2025	
15-OCT-2025	
14-OCT-2025	
13-OCT-2025	
12-OCT-2025	
11-OCT-2025	
10-OCT-2025	
9-OCT-2025	
8-OCT-2025	
7-OCT-2025	
6-OCT-2025	
5-OCT-2025	
4-OCT-2025	
3-OCT-2025	
2-OCT-2025	
1-OCT-2025	
30-SEP-2025	
29-SEP-2025	
28-SEP-2025	
27-SEP-2025	
26-SEP-2025	
25-SEP-2025	
24-SEP-2025	
23-SEP-2025	
22-SEP-2025	
21-SEP-2025	
20-SEP-2025	
19-SEP-2025	
18-SEP-2025	
17-SEP-2025	
16-SEP-2025	
15-SEP-2025	
14-SEP-2025	
13-SEP-2025	
12-SEP-2025	
11-SEP-2025	
10-SEP-2025	
9-SEP-2025	
8-SEP-2025	
7-SEP-2025	
6-SEP-2025	
5-SEP-2025	
4-SEP-2025	
3-SEP-2025	
2-SEP-2025	
1-SEP-2025	
31-AUG-2025	
30-AUG-2025	
29-AUG-2025	
28-AUG-2025	
27-AUG-2025	
26-AUG-2025	
25-AUG-2025	
24-AUG-2025	
23-AUG-2025	
22-AUG-2025	
21-AUG-2025	
20-AUG-2025	
19-AUG-2025	
18-AUG-2025	
17-AUG-2025	
16-AUG-2025	
15-AUG-2025	
14-AUG-2025	
13-AUG-2025	
12-AUG-2025	
11-AUG-2025	
10-AUG-2025	
9-AUG-2025	
8-AUG-2025	
7-AUG-2025	
6-AUG-2025	
5-AUG-2025	
4-AUG-2025	
3-AUG-2025	
2-AUG-2025	
1-AUG-2025	
31-JUL-2025	
30-JUL-2025	
29-JUL-2025	
28-JUL-2025	
27-JUL-2025	
26-JUL-2025	
25-JUL-2025	
24-JUL-2025	
23-JUL-2025	
22-JUL-2025	
21-JUL-2025	
20-JUL-2025	
19-JUL-2025	
18-JUL-2025	
17-JUL-2025	
16-JUL-2025	
15-JUL-2025	
14-JUL-2025	
13-JUL-2025	
12-JUL-2025	
11-JUL-2025	
10-JUL-2025	
9-JUL-2025	
8-JUL-2025	
7-JUL-2025	
6-JUL-2025	
5-JUL-2025	
4-JUL-2025	
3-JUL-2025	
2-JUL-2025	
1-JUL-2025	
30-JUN-2025	
29-JUN-2025	
28-JUN-2025	
27-JUN-2025	
26-JUN-2025	
25-JUN-2025	
24-JUN-2025	
23-JUN-2025	
22-JUN-2025	
21-JUN-2025	
20-JUN-2025	
19-JUN-2025	
18-JUN-2025	
17-JUN-2025	
16-JUN-2025	
15-JUN-2025	
14-JUN-2025	
13-JUN-2025	
12-JUN-2025	
11-JUN-2025	
10-JUN-2025	
9-JUN-2025	
8-JUN-2025	
7-JUN-2025	
6-JUN-2025	
5-JUN-2025	
4-JUN-2025	
3-JUN-2025	
2-JUN-2025	
1-JUN-2025	
31-MAY-2025	
30-MAY-2025	
29-MAY-2025	
28-MAY-2025	
27-MAY-2025	
26-MAY-2025	
25-MAY-2025	
24-MAY-2025	
23-MAY-2025	
22-MAY-2025	
21-MAY-2025	
20-MAY-2025	
19-MAY-2025	
18-MAY-2025	
17-MAY-2025	
16-MAY-2025	
15-MAY-2025	
14-MAY-2025	
13-MAY-2025	
12-MAY-2025	
11-MAY-2025	
10-MAY-2025	
9-MAY-2025	
8-MAY-2025	
7-MAY-2025	
6-MAY-2025	
5-MAY-2025	
4-MAY-2025	
3-MAY-2025	
2-MAY-2025	
1-MAY-2025	
30-APR-2025	
29-APR-2025	
28-APR-2025	
27-APR-2025	
26-APR-2025	
25-APR-2025	
24-APR-2025	
23-APR-2025	
22-APR-2025	
21-APR-2025	
20-APR-2025	
19-APR-2025	
18-APR-2025	
17-APR-2025	
16-APR-2025	
15-APR-2025	
14-APR-2025	
13-APR-2025	
12-APR-2025	
11-APR-2025	
10-APR-2025	
9-APR-2025	
8-APR-2025	
7-APR-2025	
6-APR-2025	
5-APR-2025	
4-APR-2025	
3-APR-2025	
2-APR-2025	
1-APR-2025	
31-MAR-2025	
30-MAR-2025	
29-MAR-2025	
28-MAR-2025	
27-MAR-2025	
26-MAR-2025	
25-MAR-2025	
24-MAR-2025	
23-MAR-2025	
22-M	

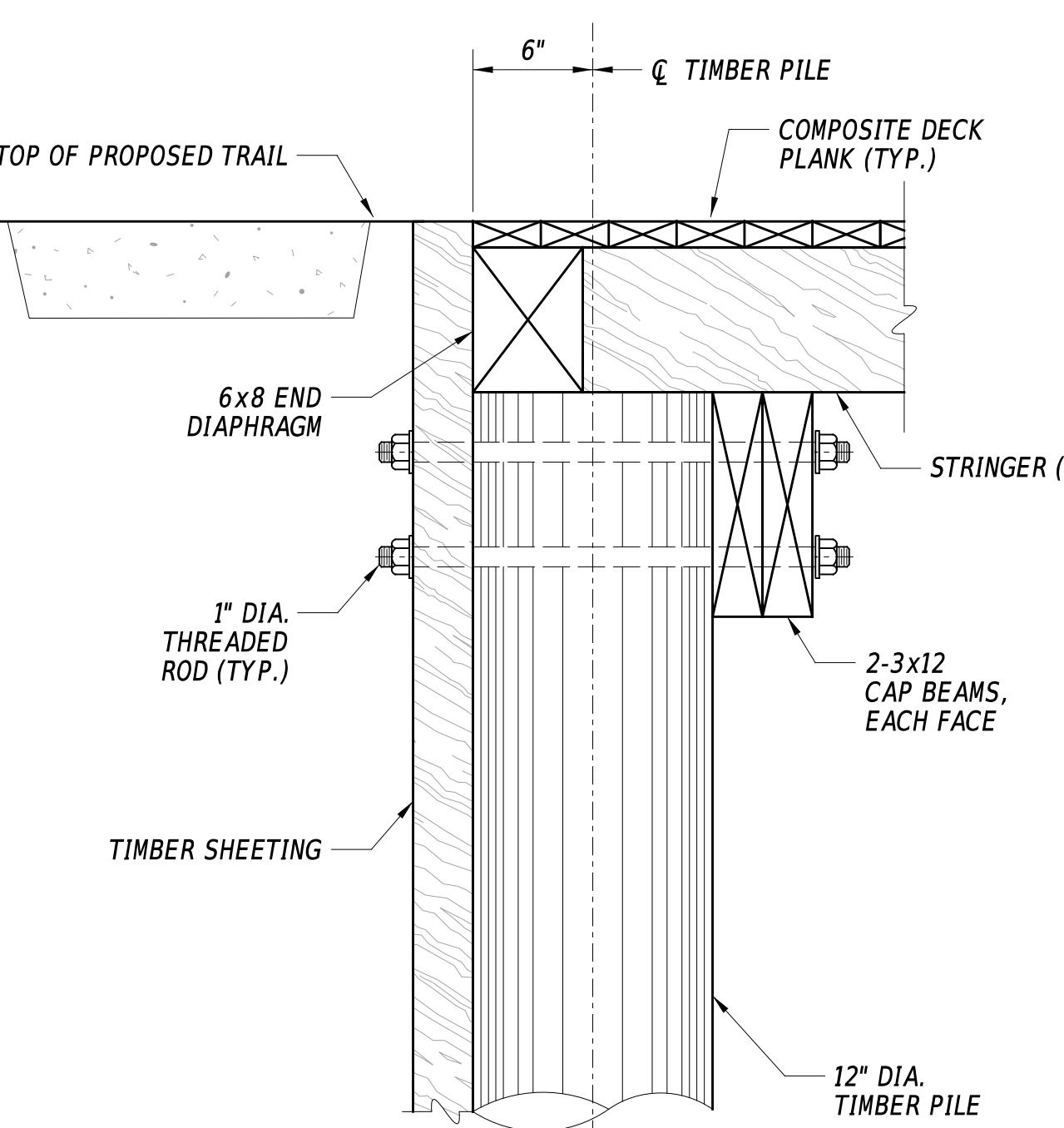


SECTION A-A

SCALE: $1\frac{1}{2}'' = 1'-0''$

NOTE:

RAILING NOT SHOWN
OR CLARITY.

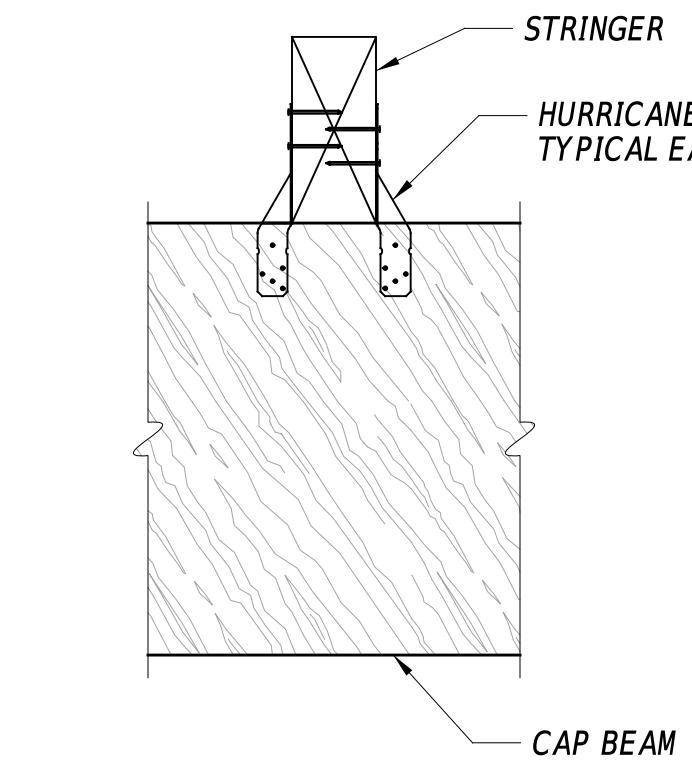


SECTION B-B

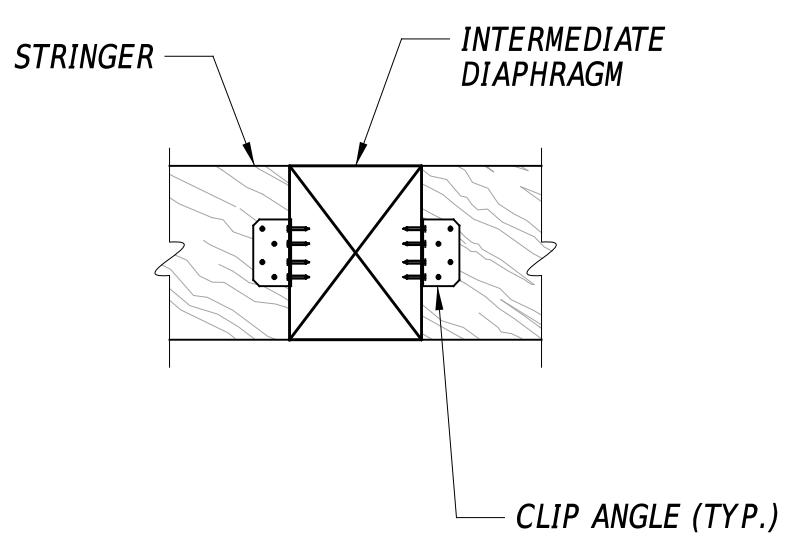
SCALE: $1\frac{1}{2}'' = 1'-0''$

NOTE:

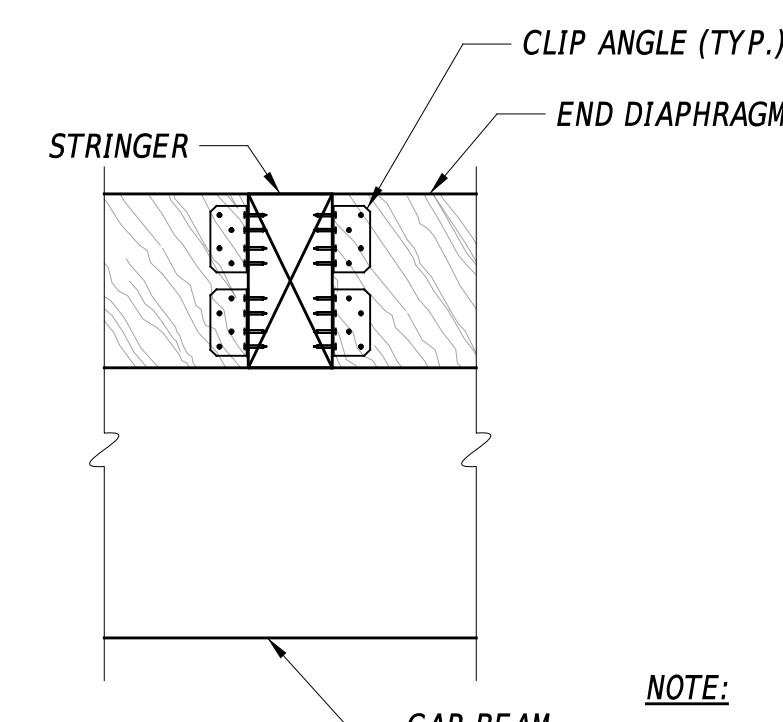
RAILING NOT SHOWN
OR CLARITY.



STRINGER TO CAP PLATE

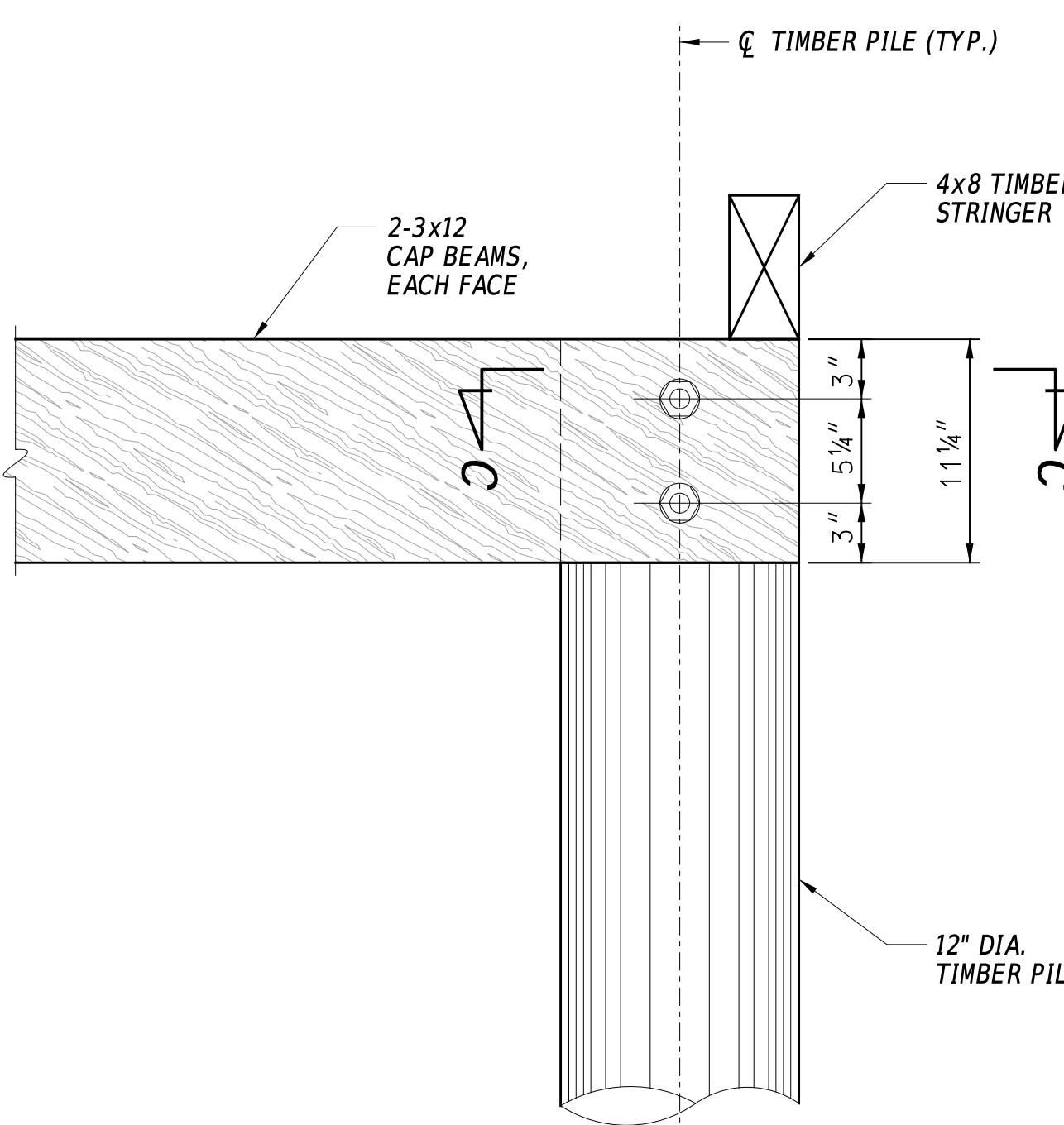


INTERMEDIATE DIAPHRAGM TO STRINGER



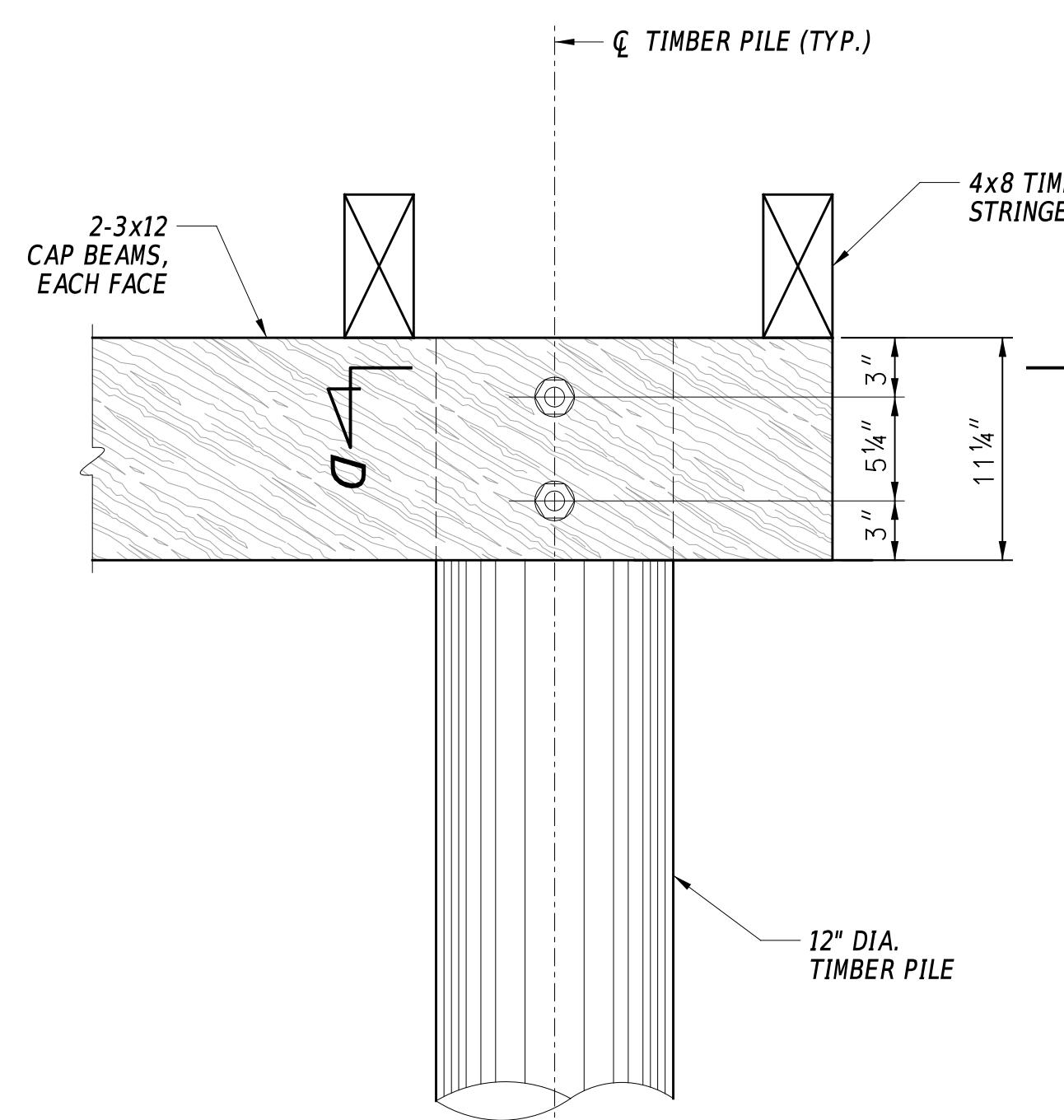
NOTE:
HURRICANE TIES NOT
SHOWN FOR CLARITY

END DIAPHRAGM TO STRINGER



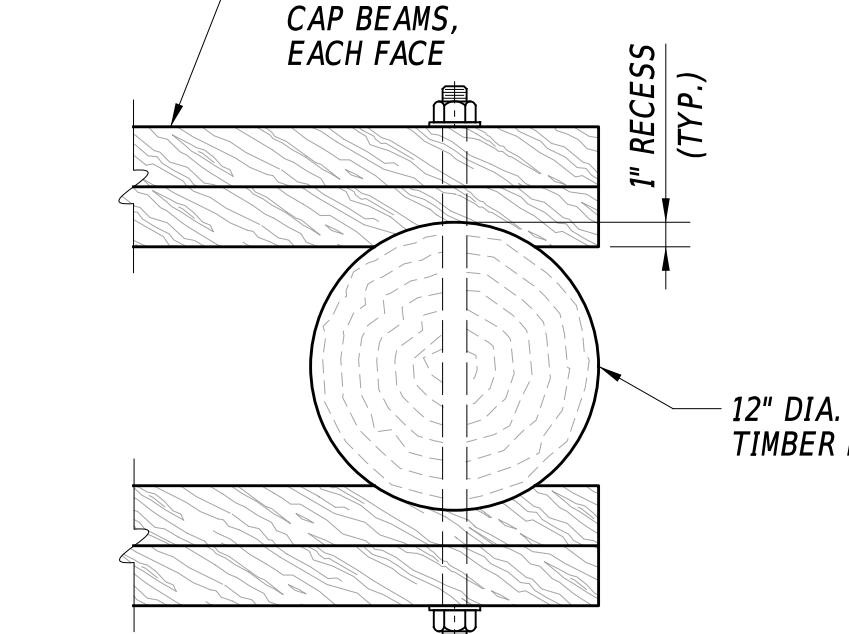
TYPICAL CONNECTION DETAIL

SCALE: $1\frac{1}{2}'' = 1'-0''$



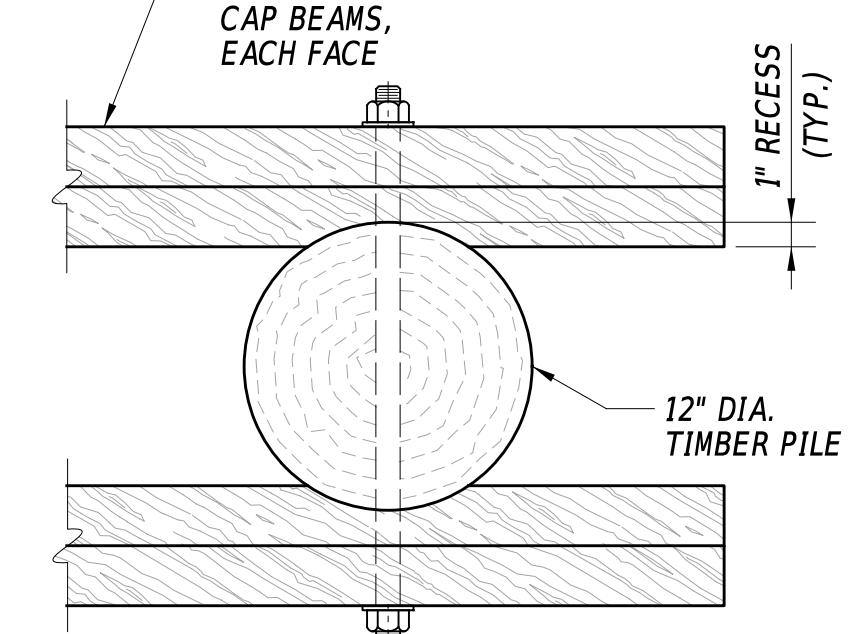
TYPICAL CONNECTION DETAIL

SCALE: $1\frac{1}{2}'' = 1'-0''$



SECTION C-C

SCALE: $1\frac{1}{2}'' = 1'-0''$



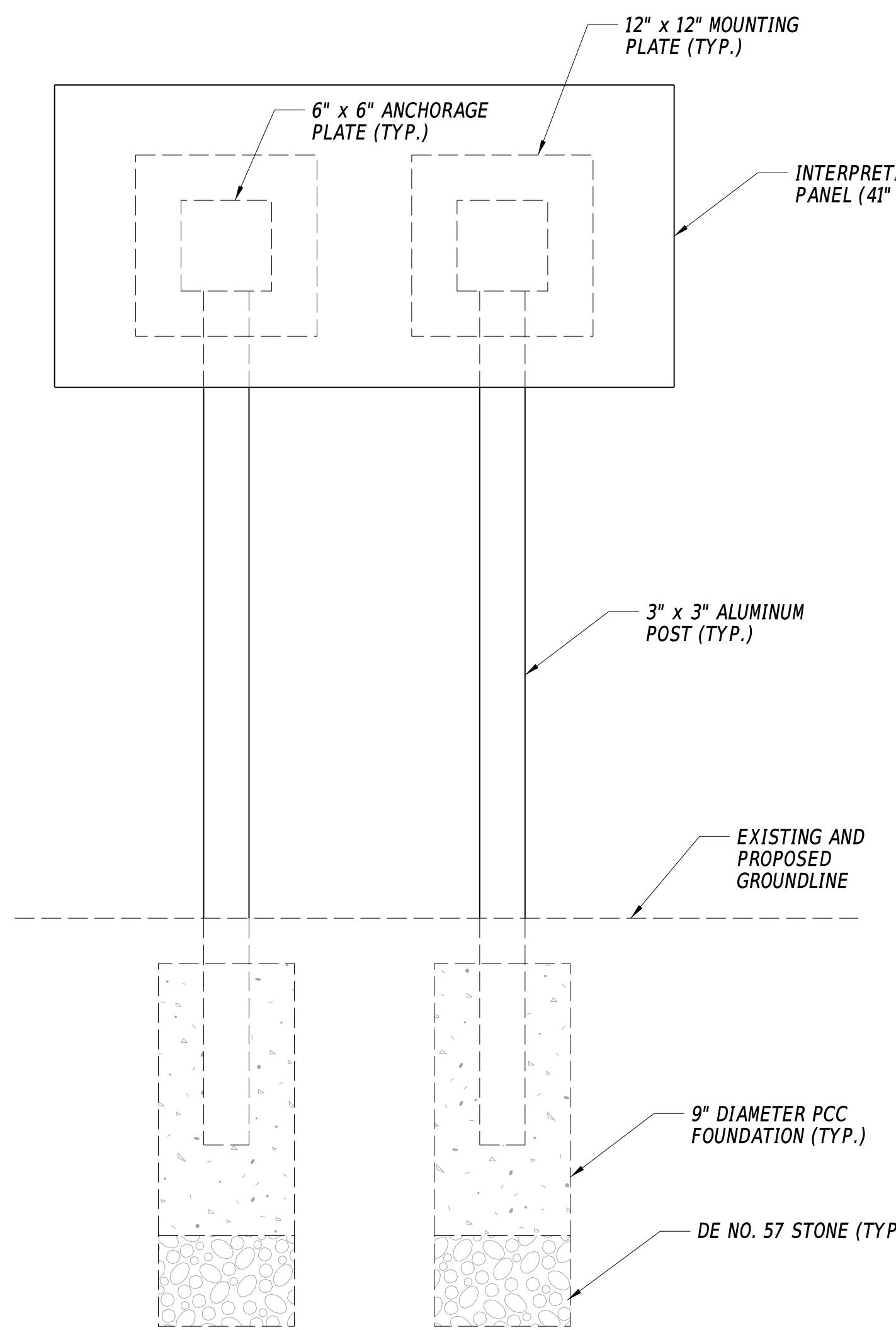
SECTION D-D

SCALE: $1\frac{1}{2}'' = 1'-0''$

NOTES:

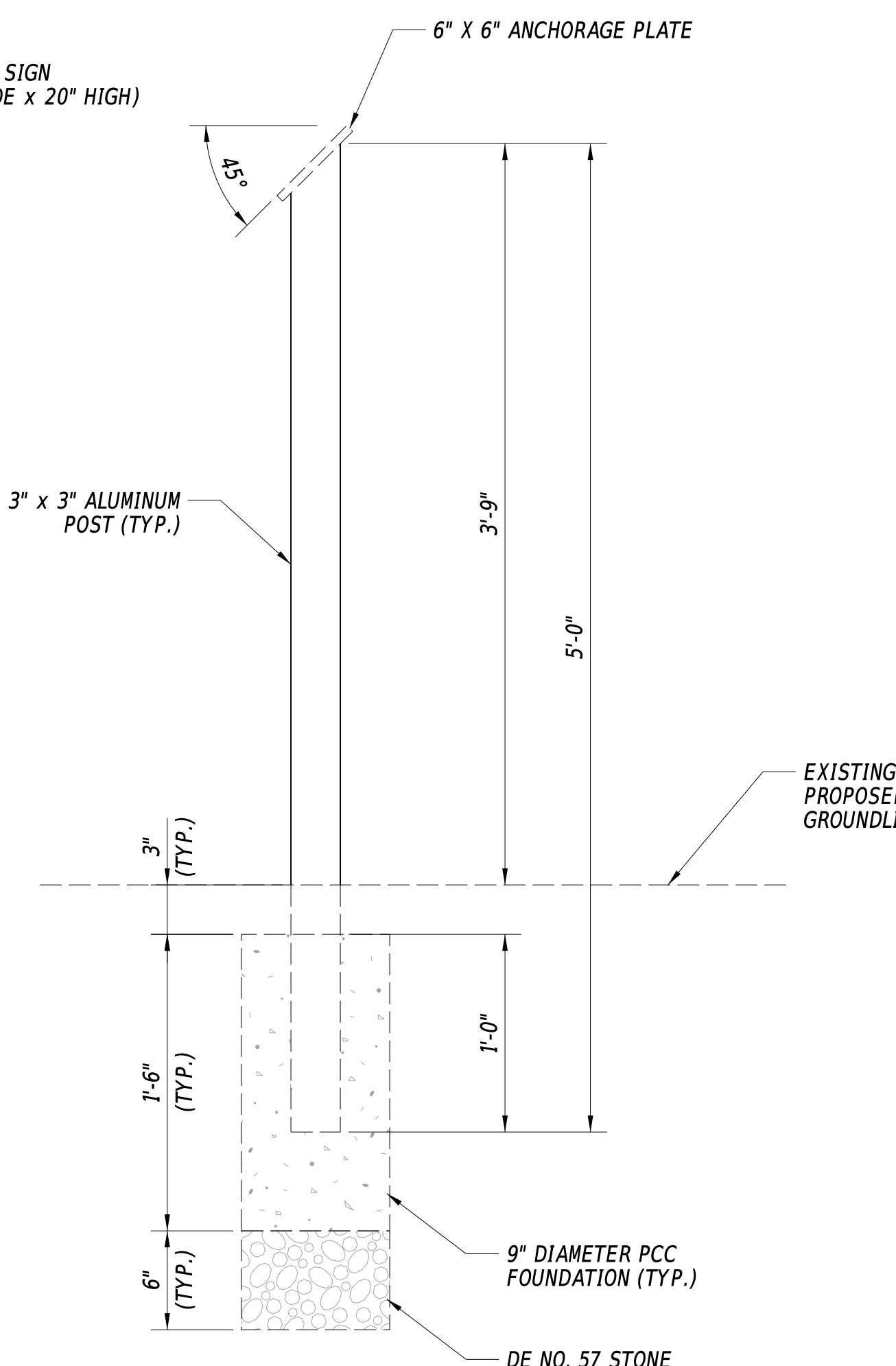
1. FOR GENERAL PLAN AND ELEVATION, SEE SHEET NO. 26.
2. FOR LOCATIONS OF SECTIONS A-A AND B-B, SEE SHEET NO. 29.

ADDENDA / REVISIONS		SCALE AS NOTED	BERZINS NATURE PARK & TRAIL	CONTRACT	BRIDGE NO.	N/A	TYPICAL DETAILS		
				T20232007					
				COUNTY	DESIGNED BY: EJS				
				SUSSEX	CHECKED BY: EMC				



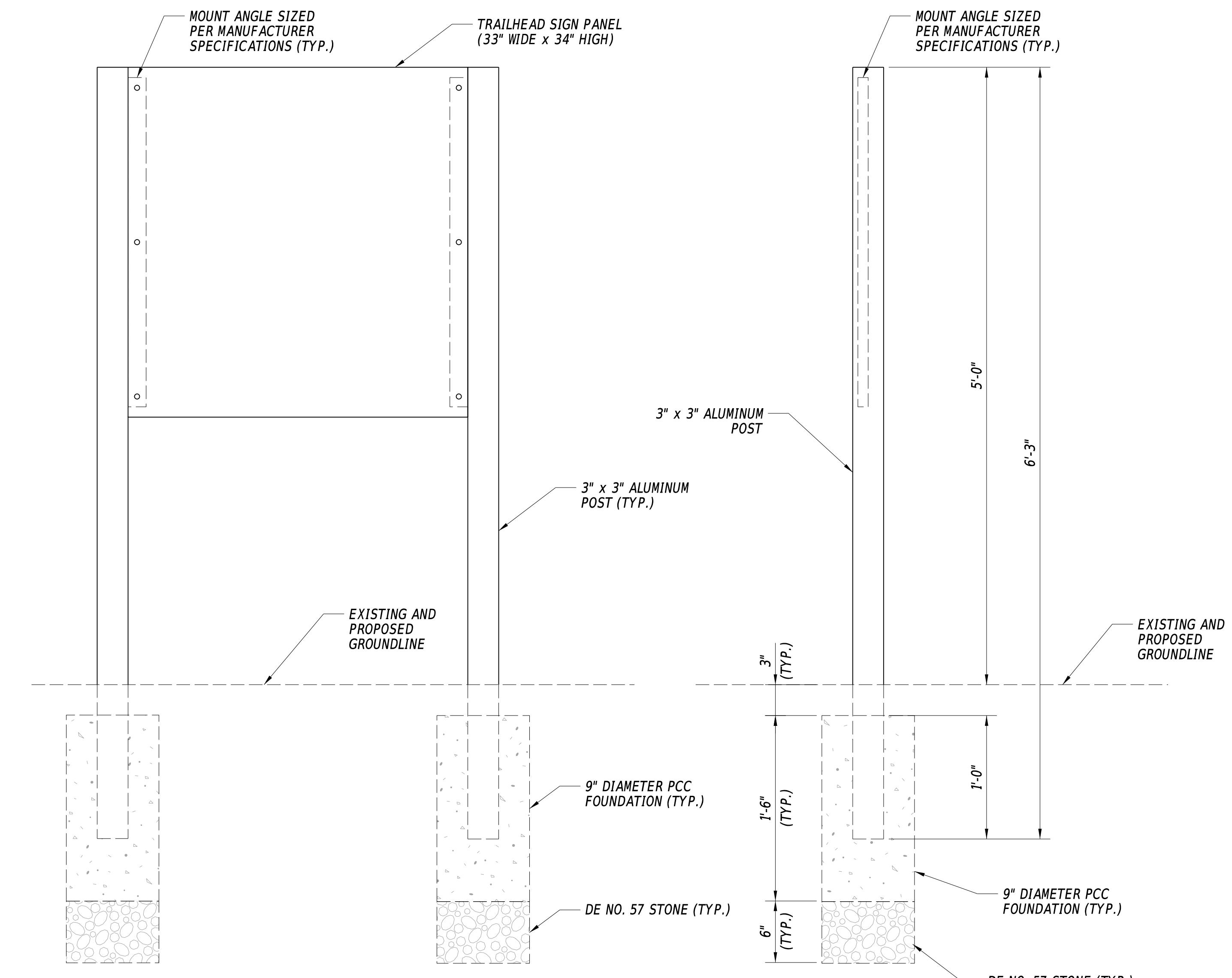
GROUND MOUNTED INTERPRETIVE SIGN DETAILS

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



NOTE

1. INTERPRETIVE SIGN NOT SHOWN FOR CLARITY
 2. ALUMINUM ANCHORAGE PLATE SHALL BE ATTACHED DIRECTLY TO POSTS.
 3. MOUNT PLATE SHALL BE SPECIFIED BY THE SIGN MANUFACTURER



TRAILHEAD SIGN DETAIL

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

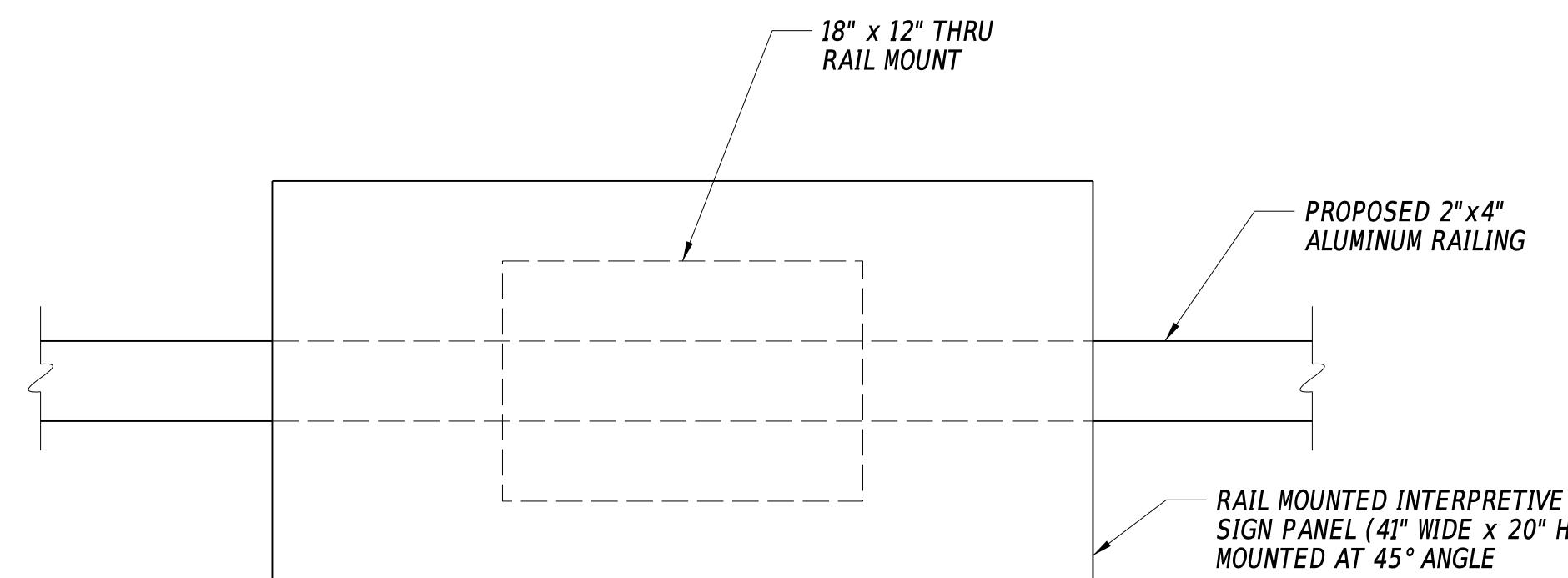


ADDENDA / REVISIONS

SCALE AS NOTE

BERZINS NATURE PARK & TRAIL

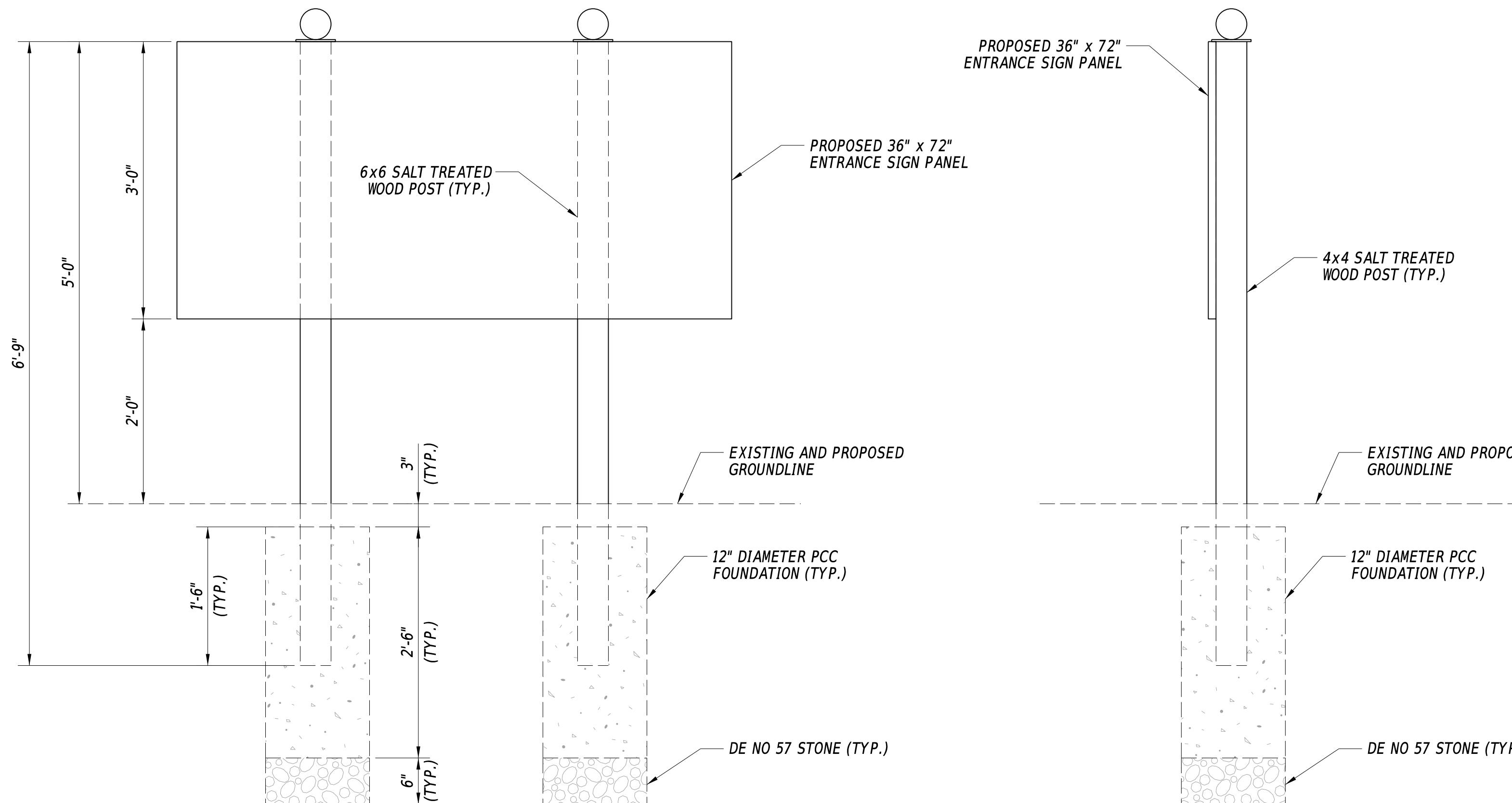
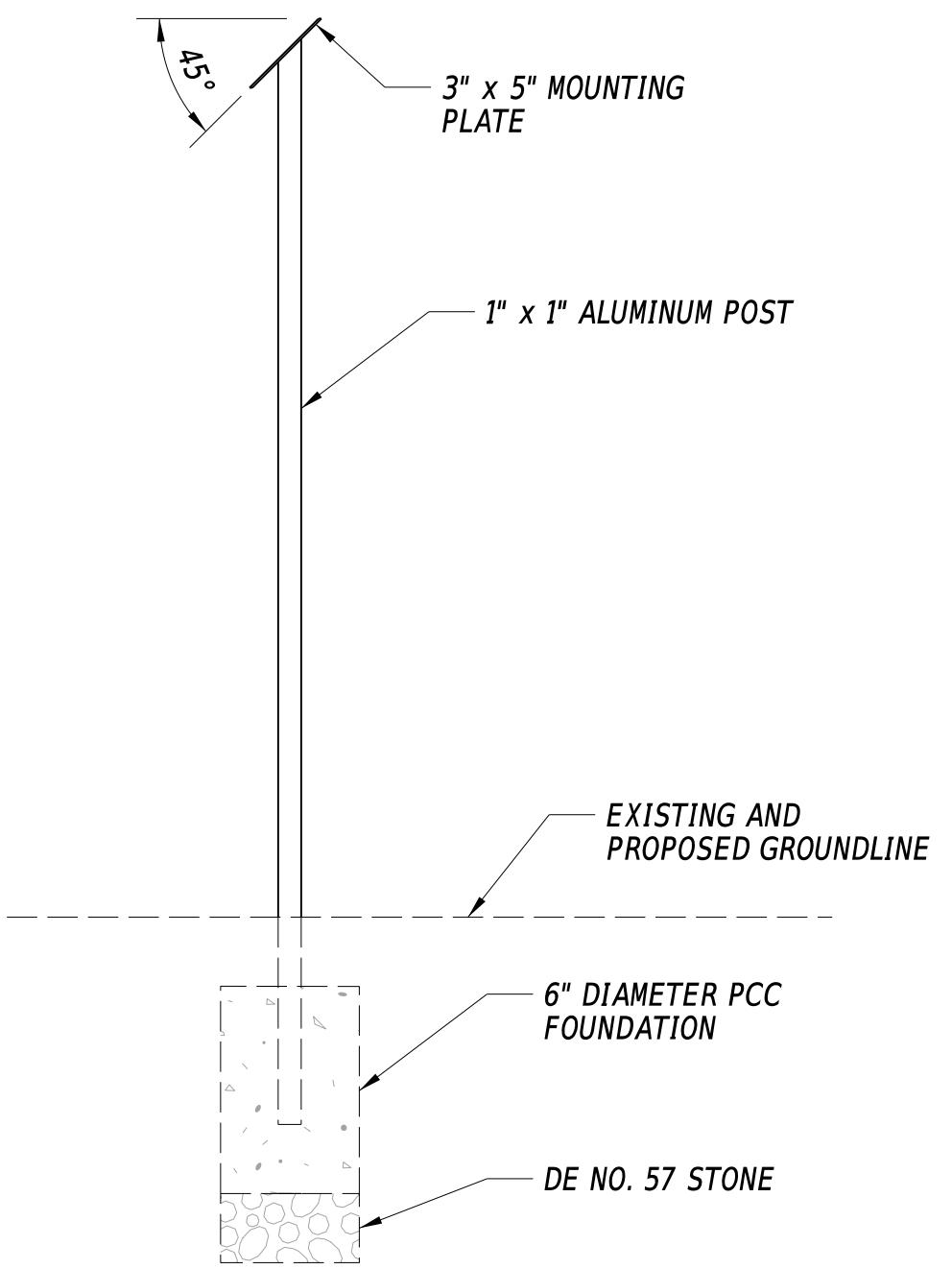
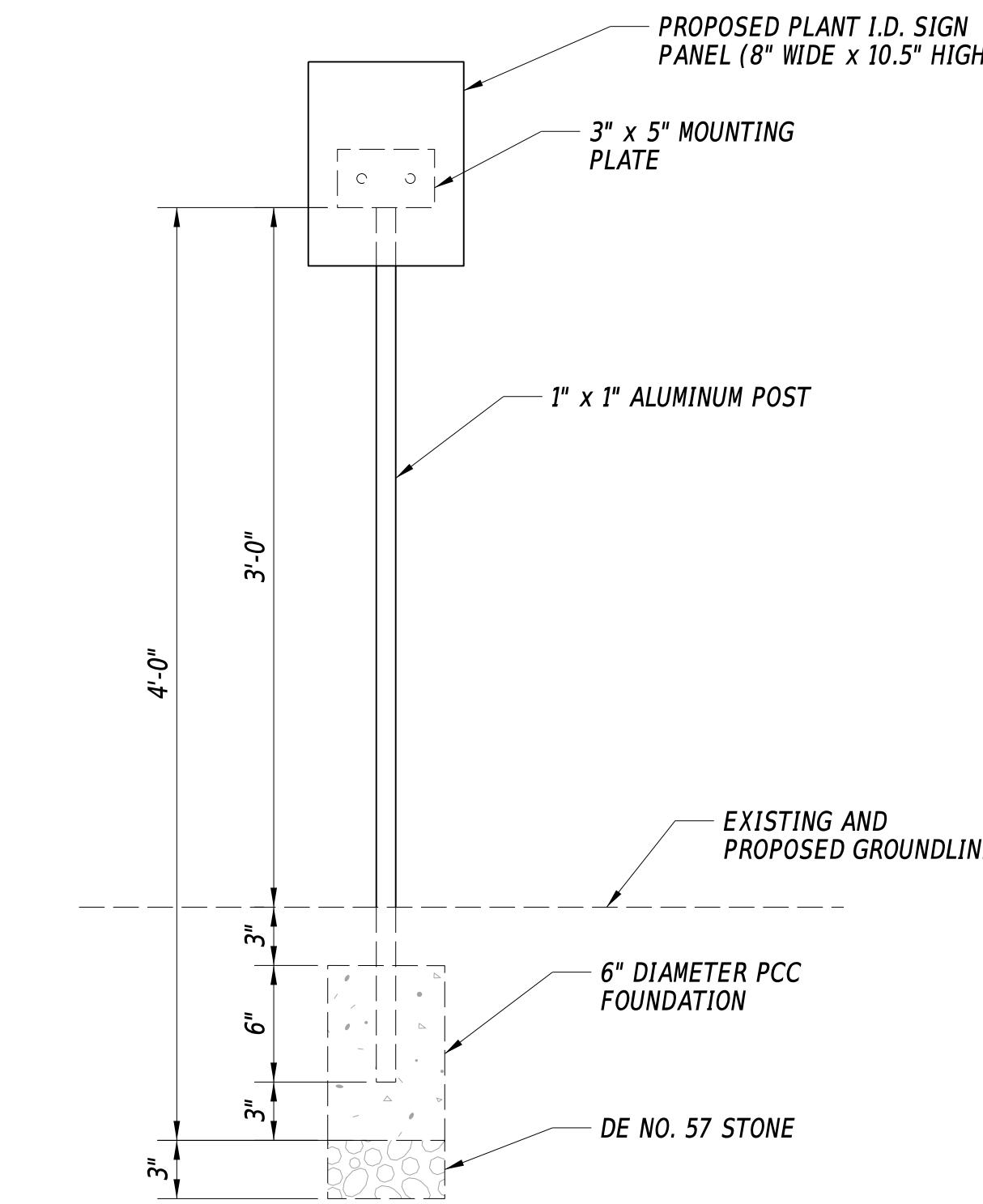
CONTRACT	BRIDGE NO.	N/A	SIGNAGE DETAILS - 1	SECTION
T202320007				WM
COUNTY	DESIGNED BY:	EJS		SHEET NO.
SUSSEX	CHECKED BY:	EMC		31



RAIL MOUNTED INTERPRETIVE SIGN DETAIL

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

NOTE:
1. MOUNT PLATE SHALL BE SPECIFIED BY THE SIGN MANUFACTURER.



MAIN ENTRANCE SIGN DETAIL

SCALE: 1" = 1'-0"

NOTES:
1. FOR RAIL MOUNTED SIGN LOCATION, SEE SHEET NO. 26.
2. FOR GROUND MOUNTED SIGN LOCATIONS, SEE SHEET NO. 38.
3. SEE SECTION 763505 OF THE CONTRACT DOCUMENTS FOR SIGN GRAPHIC DETAILS.

ADDENDA / REVISIONS		SCALE AS NOTED	BERZINS NATURE PARK & TRAIL	CONTRACT	BRIDGE NO.	N/A	SIGNAGE DETAILS - 2		
				T20232007					
				COUNTY	DESIGNED BY: EJS				
				SUSSEX	CHECKED BY: EMC				

- GENERAL NOTES:
 - THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
 - IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, CONTACT THE ENVIRONMENTAL STUDIES SECTION AT (302-760-2264 OR DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV) TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
 - USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

- NATURAL RESOURCE ISSUES:

- PERMIT REQUIREMENTS/APPROVALS *:

U.S. ARMY CORPS OF ENGINEERS (COE): NATIONWIDE PERMIT 23
 DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL); WETLANDS & SUBAQUEOUS LANDS PERMIT
 DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM)
 US COAST GUARD (USCG): N/A

* THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THESE APPROVALS.

** THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE THEY ARE DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.

- CONSTRUCTION RESTRICTIONS:

FISHERIES - NONE

ENDANGERED SPECIES - THE PROJECT IS LOCATED WITHIN THE ASSAWOMAN WILDLIFE AREA, HOWEVER, THE PROJECT IS NOT LIKELY TO ADVERSELY AFFECT EASTERN BLACK RAIL (LATERALUS JAMAICENSIS).

MIGRATORY BIRDS - TO REDUCE IMPACTS TO GROUND-NESTING MARSH BIRDS, PROJECT ACTIVITIES DIRECTLY IMPACTING OR ADJACENT TO MARSHES SHALL NOT OCCUR FROM APRIL 1 TO JULY 31, AND NO TREE CLEARING SHALL OCCUR FROM MAY 15 TO JULY 31.

INVASIVE SPECIES - EUROPEAN REED (PHRAGMITES ASTRALIS) IS PRESENT ON THE SITE. ANY SOIL DISTURBANCE WITHIN THE MARSH HAS THE POTENTIAL TO FURTHER SPREAD THE INVASIVE SPECIES. IF GROUND DISTURBANCE OCCURS THE AREA MUST BE REVEGETATED USING NATIVE PLANT SPECIES.

- CULTURAL RESOURCE ISSUES:

- THERE ARE NO CULTURAL RESOURCE CONCERN WITH THE PROJECT AS CURRENTLY DESIGNED. A PHASE I ARCHEOLOGICAL SURVEY WILL BE COMPLETED BY THE DELDOT ENVIRONMENTAL STUDIES STAFF PRIOR TO CONSTRUCTION. SHOULD IT BE NECESSARY TO ADD ADDITIONAL ACCESS LOCATION OR IMPACT AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION (LOC), OR OTHERWISE MODIFY THE LOC OR PROJECT SCOPE FROM WHAT IS DETAILED IN THE APPROVED PLANS, DELDOT ENVIRONMENTAL STUDIES STAFF (DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV, (302) 760-4887) MUST BE CONTACTED TO REVIEW THESE CHANGES FOR POTENTIAL CULTURAL RESOURCES CONCERN AND COORDINATE WITH THE FEDERAL HIGHWAY ADMINISTRATION AND DE STATE HISTORIC PRESERVATION OFFICE AS NECESSARY. IF ANY HISTORIC, CULTURAL, OR ARCHEOLOGICAL REMAINS OR ARTIFACTS ARE FOUND WHILE COMPLETING THE APPROVED ACTIVITIES THE WORK MUST STOP AND THE CONTRACTOR SHALL CONTACT DELDOT ENVIRONMENTAL STUDIES STAFF (DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV, (302) 760-4887) IMMEDIATELY.

- PROTECTION OF RESOURCES:

- MINIMIZE CLEARING IN WETLAND AREAS TO ONLY WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. SUPPORT ALL EQUIPMENT TRAVERSING WETLANDS AND SUBAQUEOUS LAND ON MATS. PAYMENT FOR MATS WILL BE MADE UNDER ITEM 621500 - TEMPORARY TIMBER MAT. IN WETLAND AREAS THAT ARE CLEARED, NO GRUBBING IS PERMITTED EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS FOUNDATIONS AND RIPRAP PROTECTION IS PERMITTED. CUT VEGETATION FLUSH WITH THE GROUND (I.E. NO DISTURBANCE OF THE ROOT MAT). RESTORE TEMPORARILY DISTURBED WETLAND AREAS TO GRADE AND SEED ACCORDING TO THE LANDSCAPING PLANS.
- USE SILT FENCE OR CONSTRUCTION SAFETY FENCE ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER / WETLANDS ARE BEING IMPACTED (AS SHOWN ON ENVIRONMENTAL COMPLIANCE SHEETS), AND ALSO IN ANY AREA WHERE WATER/WETLANDS EXIST WITHIN 20 FEET OF THE LIMIT OF CONSTRUCTION (AS SHOWN ON CONSTRUCTION PLAN SHEETS). ANY CONTRACTOR ACCESS BEYOND THE LIMIT OF CONSTRUCTION IS STRICTLY PROHIBITED.
- USE SANDBAGS OR COMPOST FILTER LOG (CFL) TO SECURE SILT FENCE AT AREAS ADJACENT TO WOODED UPLANDS/ ALL WETLANDS IN LIEU OF TRENCHING UNLESS PROPER EROSION AND SEDIMENT CONTROL CANNOT BE MAINTAINED. REMOVE SANDBAGS AND CFLS (AND CONTENTS) IN THEIR ENTIRETY WHEN NO LONGER NEEDED. SANDBAGS/CFLS USED TO SECURE THE SILT FENCE IS INCIDENTAL TO ITEM 905001 - SILT FENCE. THE ENVIRONMENTAL STUDIES SECTION (302-760-2259 OR DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV) CAN PROVIDE FURTHER GUIDANCE REGARDING THIS METHOD OF INSTALLATION.
- CLEARLY MARK ALL TREES TO BE REMOVED WITH PAINT PRIOR TO THE EROSION AND SEDIMENT CONTROL MEETING.

- PLANTING GUIDANCE, WORK DONE PER LANDSCAPE PLANS:

UPON FINAL ACCEPTANCE OF THE CONTRACT, NOTIFY THE ENVIRONMENTAL STUDIES SECTION (302-760-2259 OR DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV) AND ROADSIDE ENVIRONMENTAL (DARIN CALLAWAY, 302-760-2186) OF COMPLETION. PLANT APPROPRIATE TREES AND/OR SHRUBS IN A NATURALIZED PATTERN WHERE SPECIFIED ON THE LANDSCAPE PLANS.

- ANY STAGING AND/OR STOCKPILE AREA(S) OUTSIDE THE PROJECT'S LOC THAT INDIVIDUALLY OR CUMULATIVELY ARE LARGER THAN 10,000 SQUARE FEET, MUST BE APPROVED BY DELDOT'S ARCHAEOLOGIST. CONTACT THE CONSTRUCTION AREA ENGINEER WHO WILL COORDINATE WITH DELDOT'S ARCHAEOLOGIST.

WITHIN 30 DAYS, DELDOT WILL;

- APPROVE THE USE OF THE PROPOSED STAGING AND STOCKPILE AREA(S);
- REJECT THE REQUEST; OR
- PERFORM AN ARCHAEOLOGICAL SURVEY TO DETERMINE WHETHER TO APPROVE OR REJECT THE REQUEST, WHICH MAY TAKE UP TO 3 MONTHS. IF AN ARCHAEOLOGICAL SURVEY IS NECESSARY, DELDOT OR A CONSULTANT ON ITS BEHALF WILL UNDERTAKE THE SURVEY.

THIS PROPERTY, TAX MAP 134-17-00-30-00, HAS BEEN EXAMINED BY WALLACE MONTGOMERY ON 01-28-2021 FOR THE PRESENCE OF WATERS OF THE UNITED STATES, INCLUDING WETLANDS (SECTION 404 AND SECTION 10), STATE SUBAQUEOUS LANDS AND STATE REGULATED WETLANDS AS ESTABLISHED BY THE REVIEWING AGENCIES IN THE FORM OF MANUALS, POLICIES AND PROCEDURES IN PLACE AT THE TIME THAT THE INVESTIGATION WAS CONDUCTED. THE WETLAND INFORMATION CONTAINED IN THIS PLAN SET IS IN ACCORDANCE WITH THIS CRITERIA, PER ARMY CORPS PRELIMINARY JD# NAP-2022-00817-85.

A PRELIMINARY/APPROVED JURISDICTIONAL DETERMINATION WAS SUBMITTED/APPROVED ON 06-27-2022.

ORIGINAL SHEET PREPARED BY WALLACE MONTGOMERY ON 06-28-2024. SHEET LAST UPDATED ON 12-19-2025.

Wetland Certification. The site has been examined to both State and Federal requirements.

PERMANENT TIDAL WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
WT-2-01	24 TIMBER PILES	18.85	0.0004	1.62	DNREC / USACE	LOSS
TOTAL PERMANENT TIDAL WETLAND IMPACTS		18.85	0.0004	1.62	DNREC / USACE	LOSS
TEMPORARY TIDAL WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
TT-2-01	WORK AREA / ACCESS	2,204.58	0.0506	0.00	DNREC / USACE	NO LOSS
TOTAL TEMPORARY TIDAL WETLAND IMPACTS		2,204.58	0.0506	0.00	DNREC / USACE	NO LOSS
PERMANENT WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
W-2-01	CULVERT EXTENSION / FILL	115.19	0.0026	6.39	USACE	LOSS
W-2-02	CULVERT EXTENSION / FILL	26.21	0.0006	3.21	USACE	LOSS
TOTAL PERMANENT WETLAND IMPACT AREAS		146.11	0.0033	9.87	USACE	LOSS
TEMPORARY WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
T-2-01	WORK AREA / PLANTINGS	1,080.86	0.0248	0.00	USACE	NO LOSS
T-2-02	WORK AREA	72.05	0.0016	0.00	USACE	NO LOSS
T-2-03	WORK AREA	33.73	0.0007	0.00	USACE	NO LOSS
TOTAL TEMPORARY WETLAND IMPACT AREAS		1,186.64	0.0271	0.00	USACE	NO LOSS

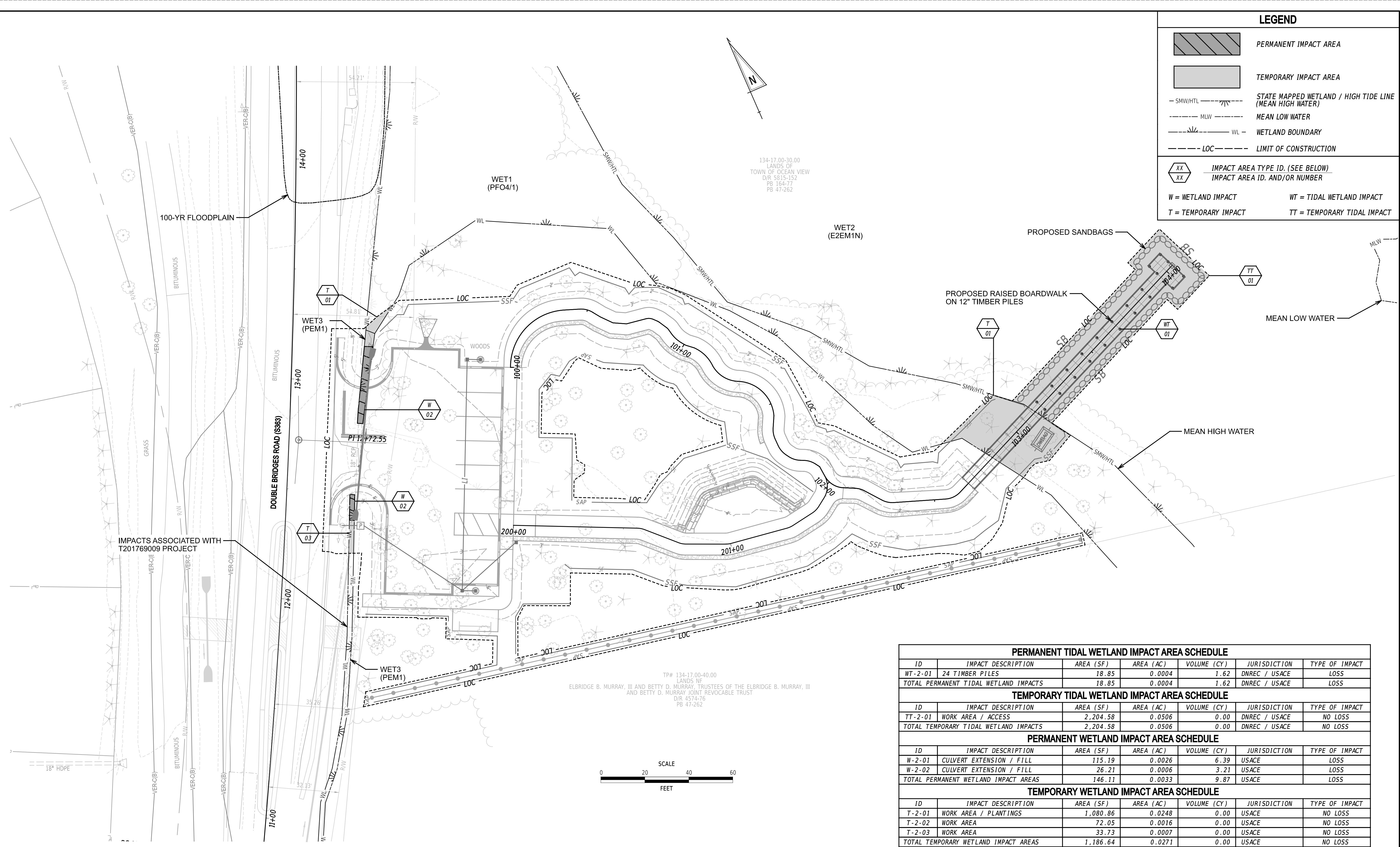
ADDENDA / REVISIONS	

NOT TO SCALE

BERZINS NATURE PARK & TRAIL

CONTRACT	BRIDGE NO.	N/A
T202320007		
COUNTY	DESIGNED BY:	OKS
SUSSEX	CHECKED BY:	JHB

ENVIRONMENTAL
COMPLIANCE PLAN



PERMANENT TIDAL WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
WT-2-01	24 TIMBER PILES	18.85	0.0004	1.62	DNREC / USACE	LOSS
TOTAL PERMANENT TIDAL WETLAND IMPACTS		18.85	0.0004	1.62	DNREC / USACE	LOSS
TEMPORARY TIDAL WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
TT-2-01	WORK AREA / ACCESS	2,204.58	0.0506	0.00	DNREC / USACE	NO LOSS
TOTAL TEMPORARY TIDAL WETLAND IMPACTS		2,204.58	0.0506	0.00	DNREC / USACE	NO LOSS
PERMANENT WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
W-2-01	CULVERT EXTENSION / FILL	115.19	0.0026	6.39	USACE	LOSS
W-2-02	CULVERT EXTENSION / FILL	26.21	0.0006	3.21	USACE	LOSS
TOTAL PERMANENT WETLAND IMPACT AREAS		146.11	0.0033	9.87	USACE	LOSS
TEMPORARY WETLAND IMPACT AREA SCHEDULE						
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	TYPE OF IMPACT
T-2-01	WORK AREA / PLANTINGS	1,080.86	0.0248	0.00	USACE	NO LOSS
T-2-02	WORK AREA	72.05	0.0016	0.00	USACE	NO LOSS
T-2-03	WORK AREA	33.73	0.0007	0.00	USACE	NO LOSS
TOTAL TEMPORARY WETLAND IMPACT AREAS		1,186.64	0.0271	0.00	USACE	NO LOSS

ADDENDA / REVISIONS

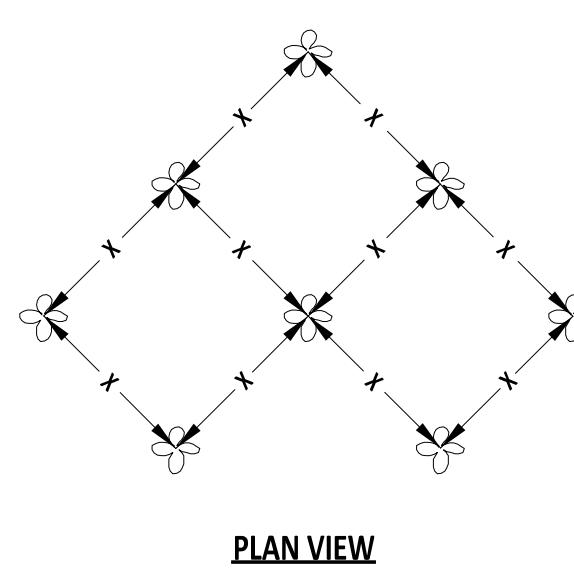
BERZINS NATURE PARK & TRAIL

BERZINS NATURE PARK & TRAIL				CONTRACT T202320007	BRIDGE NO. COUNTY	N/A	ENVIRONMENTAL COMPLIANCE PLAN	SECTION WM SHEET NO. 34
						DESIGNED BY: OKS		
						CHECKED BY: JHB		

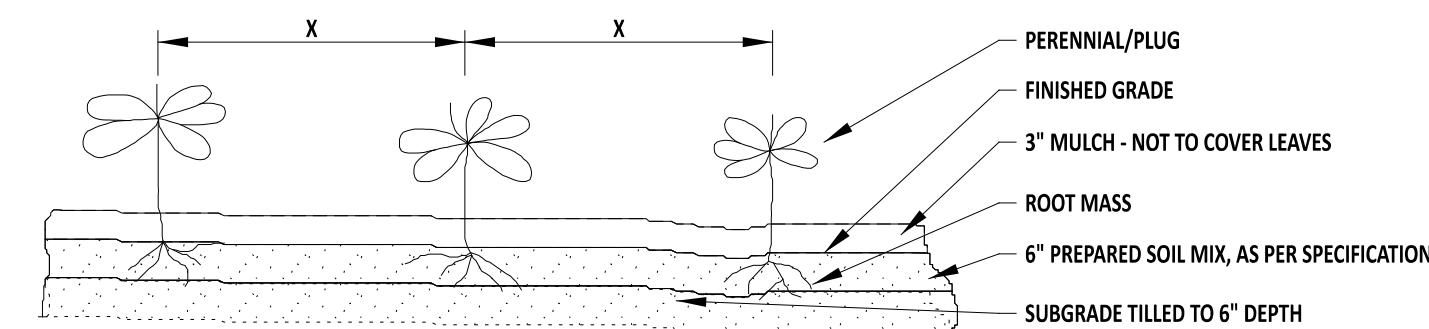
LANDSCAPE PLANTING SCHEDULE					
KEY	PLANTING DESCRIPTION	QTY	KEY	PLANTING DESCRIPTION	QTY
TREES			PERENNIALS		
CF	CORNUS FLORIDA	4	MF	MONARDA FISTULOSA	16
AC	AMELANCHIER CANADENSIS	2	OF	OENOTHERA FRUTICOSA	16
AR	ACER RUBRUM	3	EC	EUPATORIUM COELESTINUM	16
NS	NYSSA SYLVATICA	1	PD	PENSTEMON DIGITALIS	16
PT	PINUS TAEDA	1		WETLAND PLANTING AREA	
IO	ILEX OPACA	3	SS	SOLIDAGO SEMPERVIRENS	50
JV	JUNIPERUS VIRGINIANA	10	ST	SYMPHOTRICHUM TENUIFOLIUM	50
			HM	HIBISCUS MOSCHEUTOS	50
SHRUBS				MARSH PLANTING AREA	
KL	KALMIA LATIFOLIA	6	SP	SPARTINA PATENS	800
AA	ARONIA ARBUTIFOLIA	6		SYMPHOTRICHUM SUBULATUM	800
IV	ITEA VIRGINICA	7		SCHOENOPLECTUS PUNGENS	800
SC	SAMBUCUS CANADENSIS	4		SHREDDED HARDWOOD MULCH	99 SY
VP	VIBURNUM PRUNIFOLIUM	8		PERMANENT SEEDING	2,558 SY
RA	RHODODENDRON ATLANTICUM	8			



LANDSCAPE PLANTING SUMMARY SCHEDULE						
ID	QTY	BOTANICAL NAME	COMMON NAME	SIZE	METHOD	COMMENTS
TREES						
CF	4	CORNUS FLORIDA	FLOWERING DOGWOOD	.75" CAL	#7 CG	15' ON CENTER
AC	2	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	1" CAL	#7 CG	15' ON CENTER
AR	3	ACER RUBRUM	RED MAPLE	1" CAL	#7 CG	30' ON CENTER
NS	1	NYSSA SYLVATICA	BLACKGUM	1" CAL	#7 CG	20' ON CENTER
PT	1	PINUS TAEDA	LOBLOLLY PINE	.75" CAL	#7 CG	20' ON CENTER
IO	3	ILEX OPACA	AMERICAN HOLLY	.75" CAL	#7 CG	15' ON CENTER
JV	10	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	.75" CAL	#7 CG	20' ON CENTER
SHRUBS						
KL	6	KALMIA LATIFOLIA	MOUNTAIN LAUREL	36" HEIGHT	#3 CG	6' ON CENTER
AA	6	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	36" HEIGHT	#3 CG	6' ON CENTER
IV	7	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	36" HEIGHT	#3 CG	6' ON CENTER
SC	4	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	36" HEIGHT	#3 CG	4' ON CENTER
VP	8	VIBURNUM PRUNIFOLIUM	BLACK HAW	36" HEIGHT	#3 CG	4' ON CENTER
RA	8	RHODODENDRON ATLANTICUM	COAST AZALEA	12" HEIGHT	#1 CG	4' ON CENTER
PERENNIALS						
MF	16	MONARDA FISTULOSA	WILD BERGAMOT	N/A	#1 CG	3' ON CENTER
OF	16	OENOTHERA FRUTICOSA	NARROWLEAF EVENING PRIMROSE	N/A	#1 CG	3' ON CENTER
EC	16	EUPATORIUM COELESTINUM	BLUE MISTFLOWER	N/A	#1 CG	3' ON CENTER
PD	16	PENSTEMON DIGITALIS	FOXGLOVE BEARDTONGUE	N/A	#1 CG	3' ON CENTER
WETLAND PLANTING AREA						
SS	50	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	2" DIAMETER	PLUGS	36" ON CENTER
ST	50	SYMPHYOTRICHUM TENUIFOLIUM	PERENNIAL SALTMARSH ASTER	2" DIAMETER	PLUGS	36" ON CENTER
HM	50	HIBISCUS MOSCHEUTOS	SWAMP ROSE MALLOW	2" DIAMETER	PLUGS	36" ON CENTER
MARSH PLANTING AREA						
SP	800	SPARTINA PATENS	SALTMEADOW CORDGRASS	2" DIAMETER	PLUGS	12" ON CENTER
SPS	800	SYMPHYOTRICHUM SUBULATUM	EASTERN ANNUAL SALTMARSH ASTER	2" DIAMETER	PLUGS	12" ON CENTER
SNP	800	SCHOENOPLECTUS PUNGENS	COMMON THREESQUARE	2" DIAMETER	PLUGS	12" ON CENTER
MISCELLANEOUS						
QTY	TYPE	COMMENTS				
2,558 SY	PERMANENT SEEDING	USE PERMANENT SEEDING MIXTURE #6 WITHIN AREAS DESIGNATED AS FILTER STRIP ON SHEET SW-01. USE EQUAL COMBINATION OF PERMANENT SEEDING MIXTURE #1 AND #4 WITHIN LOC. SEE VEGETATIVE STABILIZATION DETAIL DE-ESC-3.4.3.				



PLAN VIEW



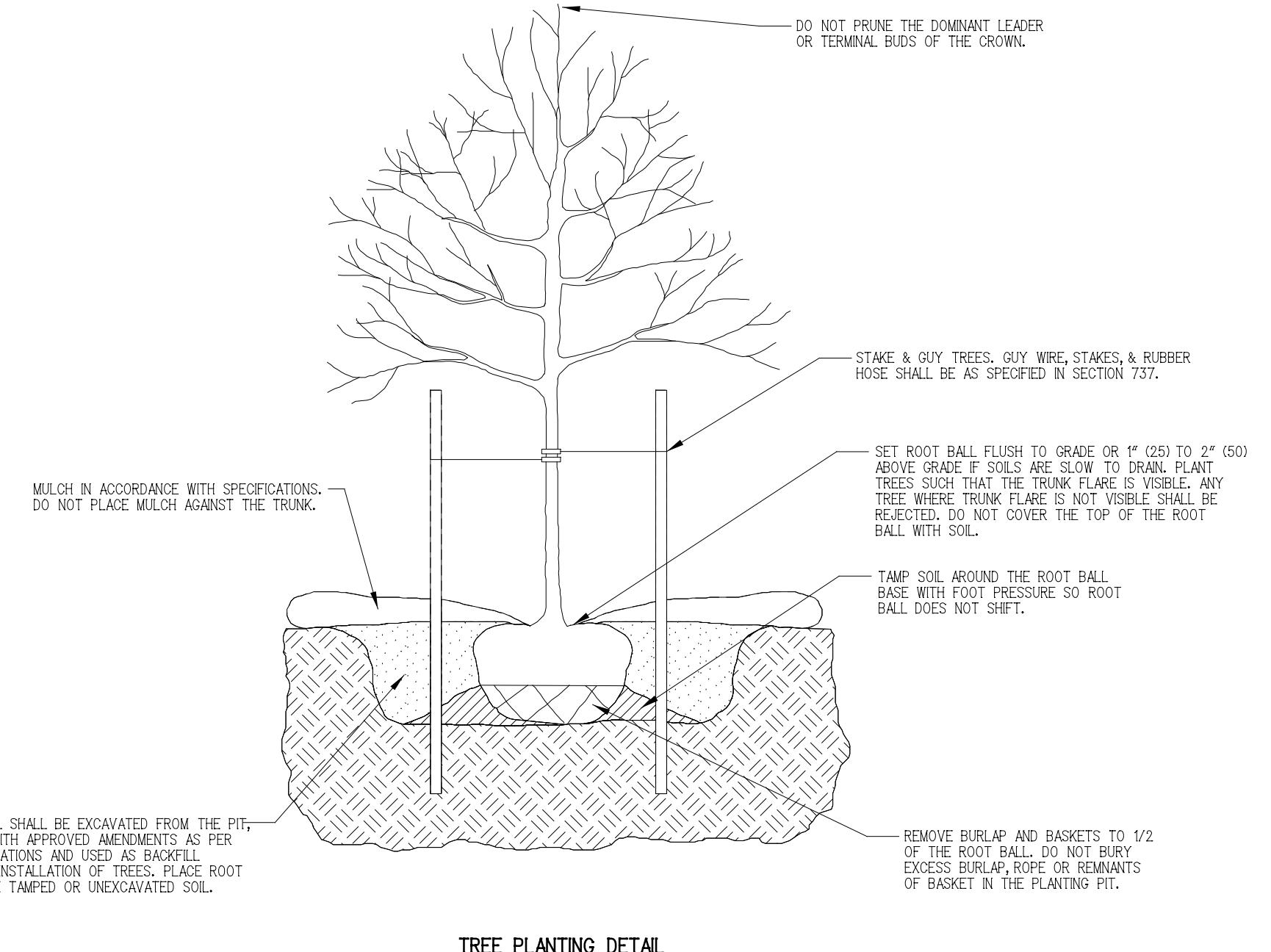
SECTION VIEW

PERENNIAL/PLUG PLANTING DETAIL

NOTE:
1). SEE PLANT LIST FOR SPACING (X).

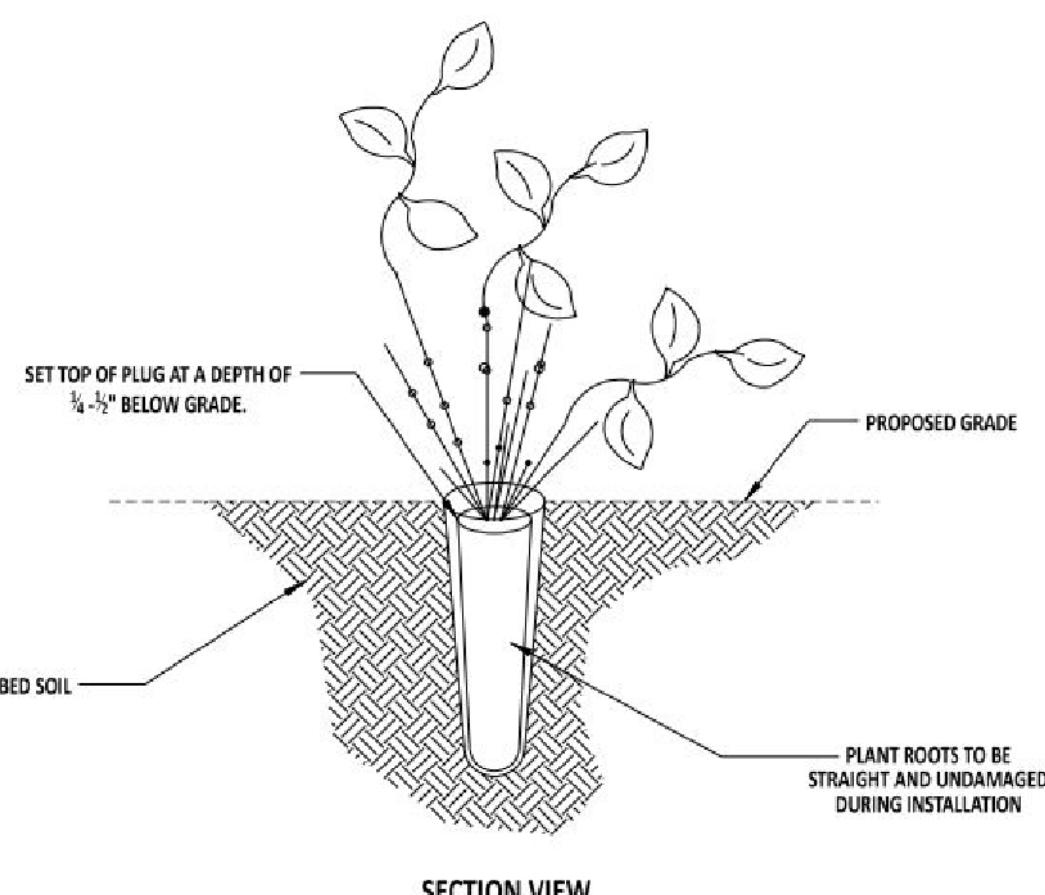
LANDSCAPING NOTES:

- ALL LANDSCAPING SHALL BE DONE IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS; AND ANY SPECIAL PROVISIONS AND DETAILS PROVIDED ON THE PLANS AND IN THE CONTRACT DOCUMENTS. SEE SECTION 908 SOIL STABILIZATION PRACTICES, AND SECTION 911 PLANTINGS OF THE STANDARD SPECIFICATIONS.
- LANDSCAPING PLANS ARE FOR LANDSCAPING PURPOSES ONLY. AS-BUILT CONDITIONS MAY VARY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES OR POTENTIAL PROBLEMS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY TO LOCATE ALL UTILITIES PRIOR TO PROCEEDING WITH ANY EXCAVATION FOR PLANT MATERIAL INSTALLATION.
- ANY ADJUSTMENTS OR CHANGES TO PLANT LAYOUT SHALL BE APPROVED BY THE TOWN OF OCEAN VIEW PRIOR TO INSTALLATION.
- THE BACKFILL FOR THE PLANTING PITS SHALL BE AMENDED PER STANDARD SPECIFICATIONS.
- THE BASE OF THE PLANTING PIT SHALL BE A MINIMUM WIDTH OF TWO TIMES OR A MAXIMUM WIDTH OF THREE TIMES THE CONTAINER SIZE.
- STAKES, GUYS, AND RELATED MATERIALS SHALL CONFORM TO SECTION 911 OF THE STANDARD SPECIFICATIONS.
- TEMPORARY CONSTRUCTION FENCE SHALL BE PLACED ALONG THE LIMIT OF CONSTRUCTION WITHIN THE EXISTING FORESTED AND WETLAND AREA.
- THERE ARE 131 TREES GREATER THAN 2" DBH TO BE REMOVED WITHIN THE LIMITS OF CONSTRUCTION.
- AREAS SHOWN ON THE LANDSCAPE PLANS OUTSIDE OF THE LOC SHALL BE CONDUCTED BY HAND PER THE NOTES ON THE PLAN SHEET.



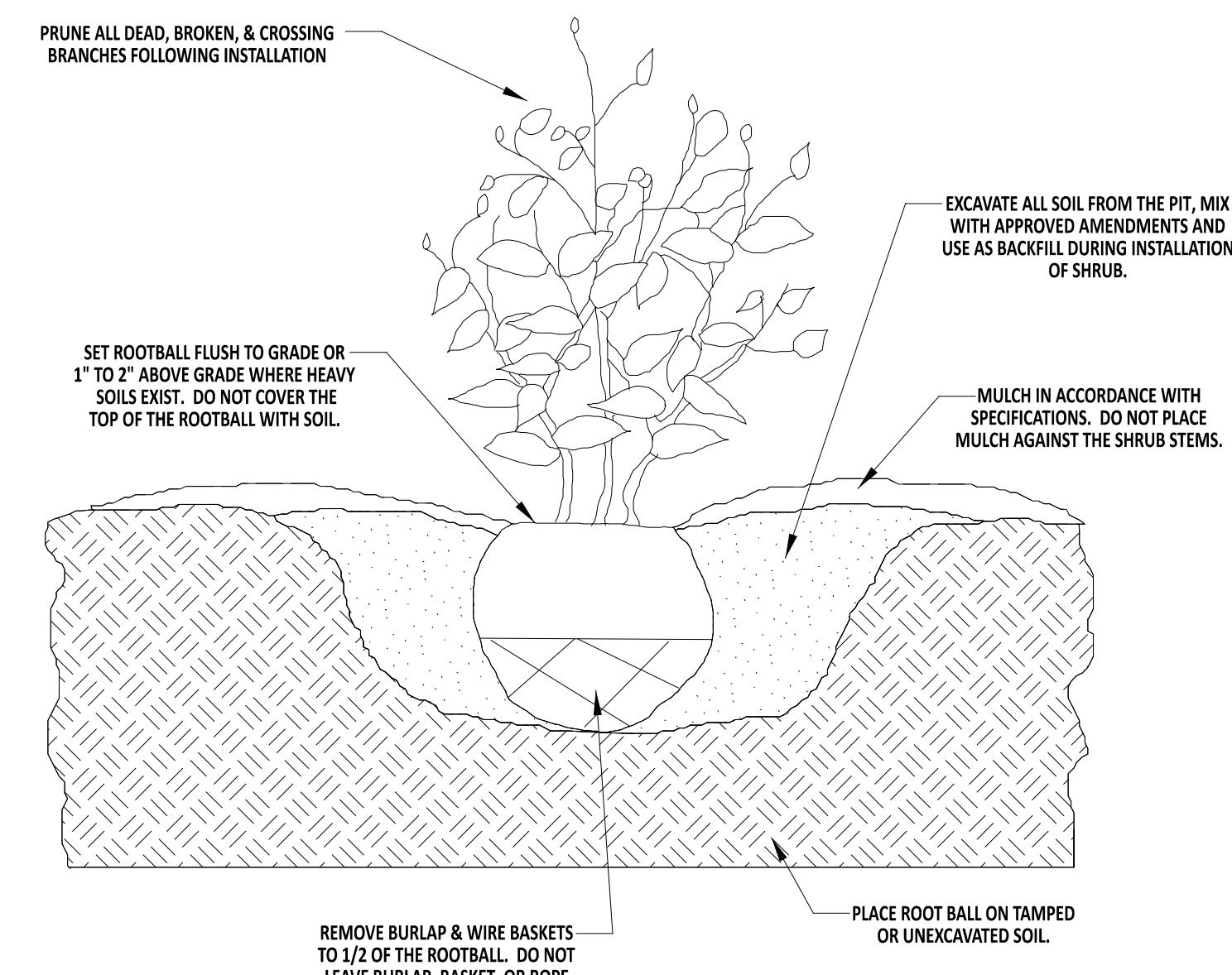
MULCH REQUIREMENTS:

- MULCH, SHREDDED HARDWOOD BARK OR WOODCHIPS, OR AN APPROVED EQUAL AS ACCEPTED BY THE TOWN SHALL BE USED. 2 INCH THICK MULCH REQUIRED FOR PERENNIAL PLANTING BEDS AND 4 INCH THICK MULCH REQUIRED FOR TREES AND SHRUBS. TOTAL QUANTITY: 99 SY.



SECTION VIEW

NOTES:
1). PLANT USING A DIBBLE BAR, STEEL STAKE OR SIMILAR APPROVED PLANTING DEVICE.
2). PLANTING PIT SHALL BE SLIGHTLY LARGER THAN THE PLANT ROOT MASS.
3). DO NOT DAMAGE LEAVES, ROOTS OR STAKES DURING CONSTRUCTION.
4). PLANT AQUATIC PLUGS IN GROUPS OF 50 PLANTS MINIMUM, PER SPECIES.



ROADSIDE SHRUB PLANTING DETAIL

NOTES:
1). DIG BASE OF PLANTING PIT A MINIMUM OF TWO AND A MAXIMUM OF THREE TIMES THE SIZE OF THE ROOT BALL.
2). INSTALL SHRUBS IN MASSES OF NO LESS THAN 3 PLANTS. A MINIMUM OF 3'0" IS REQUIRED FROM MIDDLE OF SHRUB TO ANY PERMANENT STRUCTURE (I.E. CURB, SIDEWALK, BUILDING, ETC.).
3). SHRUB PRUNING IS TO BE PERFORMED BY AN I.S.A. CERTIFIED ARBORIST, CERTIFIED NURSERY PROFESSIONAL, OR UNDER THE DIRECTION THEREOF. DO NOT HEAVILY PRUNE SHRUBS AT PLANTING.
4). HAND DIG AUGERED HOLES TO FINAL WIDTH AND DEPTH TO ELIMINATE GLAZING.
5). MULCH ALL SHRUB MASSES IN ONE CONTINUOUS BED.

CONDUIT RUN SCHEDULE					
CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
1	1	2"-RGS	10'	T	WIRES BY ULTILITY - LOAD SIDE
2	1	2"-PVC	60'	T	(2)#8, (1)#8 GND
3	1	2"-PVC	10'	T	(2)#8, (1)#8 GND
4	1	4"-PVC	110'	T	(2)#8, (1)#8 GND
5	1	2"-PVC	10'	T	(2)#8, (1)#8 GND
6	1	4"-PVC	35'	T	EMPTY - FOR FUTURE USE

* DENOTES EXISTING CONDUIT RUN.

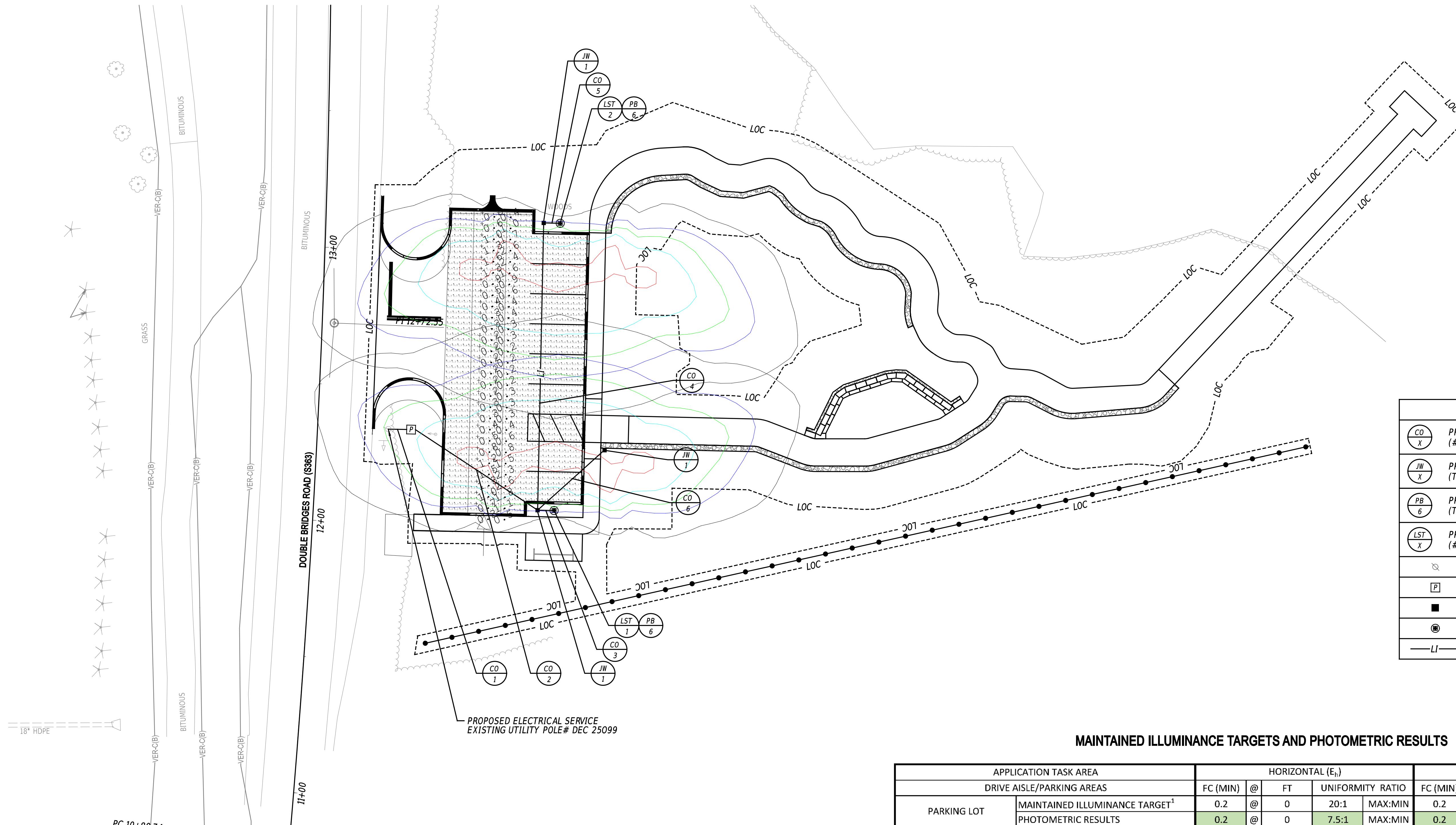
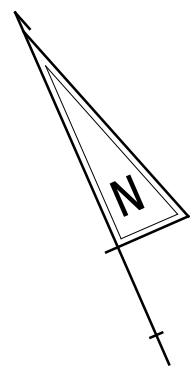
TYPES: HDPE, PVC, RGS

INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

LIGHTING STANDARD SCHEDULE				
NO.	CIRCUIT NO.	POLE HEIGHT	COLOR TEMP.	LUMINAIRE
LST 1	1	18'	4000K CCT	95W LED, IES TYPE IV DISTRIBUTION
LST 2	1	18'	4000K CCT	95W LED, IES TYPE IV DISTRIBUTION

NOTES:

1. INSTALL 180° HOUSE SIDE SHIELD ON LST 1 AND LST 2 TO REDUCE LIGHT TRESPASS ON ADJACENT PROPERTIES.
2. POLE BASE BOLT CIRCLE DIAMETER SHALL BE IN ACCORDANCE WITH POLE MANUFACTURER'S SPECIFICATIONS.

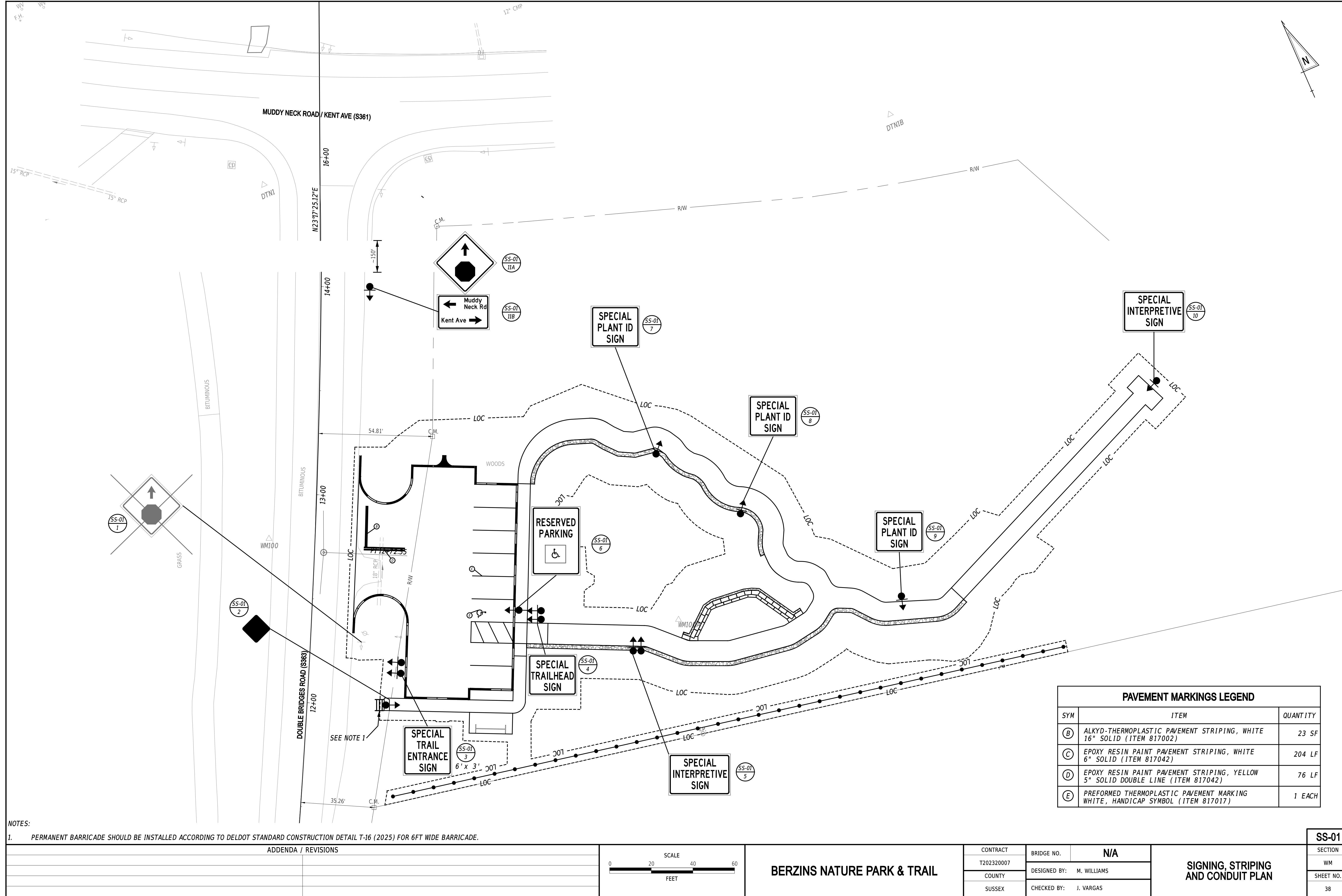


LEGEND	
CO X	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
JW X	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
PB 6	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
LST X	PROPOSED LIGHTING STANDARD IDENTIFIER (# OF STANDARD)
○	EXISTING UTILITY POLE
■	PROPOSED METERED PEDESTAL
■	PROPOSED JUNCTION WELL
●	PROPOSED LIGHTING PEDESTAL
—LI—	PROPOSED LIGHTING CONDUIT

MAINTAINED ILLUMINANCE TARGETS AND PHOTOMETRIC RESULTS

APPLICATION TASK AREA	HORIZONTAL (E _h)			VERTICAL (E _v)							
	DRIVE AISLE/PARKING AREAS	FC (MIN)	@	FT	UNIFORMITY RATIO	FC (MIN)	@	FT	UNIFORMITY RATIO		
PARKING LOT	MAINTAINED ILLUMINANCE TARGET ¹	0.2	@	0	20:1	MAX:MIN	0.2	@	5	20:1	MAX:MIN
	PHOTOMETRIC RESULTS	0.2	@	0	7.5:1	MAX:MIN	0.2	@	5	13:1	MAX:MIN

1= TARGET VALUES BASED ON ANSI/IES RP-8-21, TABLE 17-2. RECOMMENDED MAINTAINED ILLUMINANCE VALUES FOR PARKING LOTS.



PARCEL #: 134-17.00-30.00
PREPARED BY & RETURN TO:
Morris James LLP
19339 Coastal Highway
302-260-7281; fax-302-727-5886
Rehoboth Beach, De. 19971
File No. 22-1067/

THIS DEED, made this 30 day of November 2022,

- BETWEEN -

RAYMOND BERZINS, TRUSTEE OF THE RAYMOND BERZINS REVOCABLE TRUST, DATED DECEMBER 7, 2007, AS AMENDED, and RAYMOND BERZINS, INDIVIDUALLY, of PO BOX 863, Bethany Beach, DE 19930, SUSAN L. BERZINS, CO-TRUSTEE OF THE SIGURD E. BERZINS REVOCABLE TRUST, DATED NOVEMBER 10, 2008, of 36227 Double Bridges Road, Frankford, DE 19945, and ERIC E. BERZINS, CO-TRUSTEE OF THE SIGURD E. BERZINS REVOCABLE TRUST, DATED NOVEMBER 10, 2008 of 1822 Garvin Street, Orlando, FL 32803, parties of the first part,

- AND -

TOWN OF OCEAN VIEW, a municipality of the State of Delaware, of 201 Central Avenue, Ocean View, DE 19970, party of the second part.

WITNESSETH: That the said parties of the first part, for and in consideration of the sum of **Ten and 00/100 Dollars (\$10.00)**, lawful money of the United States of America, the receipt whereof is hereby acknowledged, hereby grant and convey unto the party of the second part, and its heirs and assigns, in fee simple, the following described lands, situate, lying and being in Sussex County, State of Delaware:

ALL THAT CERTAIN tract, piece or parcel of land, lying and being situate in Baltimore Hundred, Sussex County, State of Delaware, and being more fully described on a certain Plat entitled, "Lands of Raymond Berzins, Sigurd E. Berzins and Talivaldis Berzins," as prepared by DELAWARE SURVEYING SERVICES dated August 15, 2011 and recorded in the Office of the Recorder of Deeds in and for Sussex County, Delaware in Plot Book 164, Page 77, and more particularly described as follows, to-wit:

BEGINNING at a concrete monument, situate at the intersection of the easterly side of Double Bridges Road (50' wide) with the southerly side of Muddy Neck Road (70' wide), said concrete monument being a corner for these lands; thence by and with the southerly side of Muddy Neck Road the following three (3) courses and distances: 1. Along a curve bearing to the left, said curve having a Delta Angle of 02° 41' 36" and a Radius of 832.66', and Arc Distance of 39.14' to a point; 2. Thence S 71° 21' 35" E, 141.81' to a point; 3. Thence along a curve bearing to the left of said curve having a Delta Angle of 04° 05' 56" and a Radius of 1,403.14', an Arc Distance of

of said curve having a Delta Angle of 04° 05' 56" and a Radius of 1,403.14', an Arc Distance of 100.38' to a concrete monument on line of lands of the Assawoman Canal (210' wide), said monument being a corner for these lands; Thence by and with the said Assawoman Canal, S 24° 53'54" E, 456.69' to a point, said point being a corner for these lands and lands of Elbridge B. Murray, III and Betty D. Murray; Thence by and with the said Murray Lands N 79 ° 04' 17" W, 667.46' to a concrete monument on the easterly side of Double Bridges Road, said monument being a corner for these lands and said Murray lands; Thence by and with the easterly side of Double Bridges road the following two (2) courses and distances: 1. N 32° 31' 59" E, 180.36' to a concrete monument; Thence 2. N 24° 04' 59" E, 238.94' to a concrete monument, said monument being the point and place of beginning. The above-described parcel contains 4.06 Acres of land, be the same more or less.

SUBJECT to all easements, agreements, covenants, and plans of record, this reference to which shall not be construed to reimpose any such easements, agreement, covenants and plans that have otherwise lapsed, expired, or have otherwise been terminated in accordance with their terms or otherwise, as applicable, but not subject to any mortgages, judgments or other liens of record or otherwise.

Being the same lands conveyed to Raymond Berzins, Trustee of the Raymond Berzins Revocable Trust dated December 7, 2007, Sigurd E. Berzins, Individually and as Trustee of the Sigurd E. Berzins Revocable Trust dated November 10, 2008 and Talivaldis Berzins, Individually by Deed from Raymond Berzins, Trustee of the Raymond Berzins Revocable Trust dated December 7, 2007, Sigurd E. Berzins, Individually and as Trustee of the Sigurd E. Berzins Revocable Trust dated November 10, 2008 and Talivaldis Berzins, Individually, dated November 8, 2011, and recorded in the Office of the Recorder of Deeds in and for Sussex County at Georgetown, Delaware in Book 3942, Page 339.

Talivaldis Berzins died intestate on November 6,2017. The Amended Inventory Filed in his Estateat Case No. 14880, Transaction ID 68368990, reflects that his undivided one-third interest as a tenant in common in the afore-described lands passed 50 % to his son, Raymond Berzins and 50% to his son Sigurd Berzins,

Sigurd E. Berzins died testate April 1, 2021. At the time of his death, Sigurd E. Berzins owned an interest in the afore-described lands individually and in his capacity as Trustee of the Sigurd E. Berzins Revocable Trust dated November 10, 2008. The Inventory filed in his Estate at Case No. 23217, Transaction ID 68423712, reflects this his individually owned interest in the aforesaid lands passed 100% to the Sigurd E. Berzins Revocable Trust Dated November 10, 2008. The Sigurd E. Berzins Revocable Trust dated November 10, 2008, names his wife Susan L. Berzins, and his child, Eric E. Berzins, as successor co-trustees of the Trust upon his death.

SIGNATURE PAGES TO FOLLOW

IN WITNESS WHEREOF, the parties of the first part have hereunto set their hands and seals the day and year first above written.

Witness

Witness

By: R. B. (SEAL)
**RAYMOND BERZINS, TRUSTEE OF THE
 RAYMOND BERZINS REVOCABLE TRUST,
 DATED DECEMBER 7, 2007, AS AMENDED**

By: R. B. (SEAL)
RAYMOND BERZINS, INDIVIDUALLY

STATE OF DELAWARE, COUNTY OF SUSSEX: to-wit

BE IT REMEMBERED, that on November 30, 2022, personally came before me, the subscriber, **Raymond Berzins, Trustee of the Raymond Berzins Revocable Trust, dated December 7, 2007, as amended**, party of the first part to this Indenture, known to me personally to be such, and acknowledged this Indenture to be his act and deed and the act and deed of the Trust.

GIVEN under my Hand and Seal of Office the day and year aforesaid.

VERONICA O. FAUST
 Attorney at Law
 Notary Officer, State of Delaware
 Pursuant to 29 Del.C §4323(a)(3)
 My Commission Has No Expiration Date

11/30/2022
 Notary Public
 My Commission Expires: _____

BE IT REMEMBERED, that on November 30, 2022, personally came before me, the subscriber, **Raymond Berzins, Individually**, party of the first part to this Indenture, known to me personally to be such, and acknowledged this Indenture to be his act and deed.

GIVEN under my Hand and Seal of Office the day and year aforesaid.

VERONICA O. FAUST
 Attorney at Law
 Notary Officer, State of Delaware
 Pursuant to 29 Del.C §4323(a)(3)
 My Commission Has No Expiration Date

11/30/2022
 Notary Public
 My Commission Expires: _____

IN WITNESS WHEREOF, the parties of the first part have hereunto set their hands and seals the day and year first above written.



Witness

By: Susan L. Berzins TTEE (SEAL)
**SUSAN L. BERZINS, CO-TRUSTEE OF THE
SIGURD E. BERZINS REVOCABLE TRUST,
DATED NOVEMBER 10, 2008**

STATE OF DELAWARE, COUNTY OF SUSSEX: to-wit

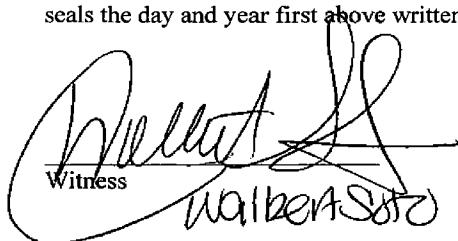
BE IT REMEMBERED, that on November 30, 2022, personally came before me, the subscriber **Susan L. Berzins, Co-Trustee of the Sigurd E. Berzins Revocable Trust, Dated November 10, 2008**, party of the first part to this Indenture, known to me personally to be such, and acknowledged this Indenture to be her act and deed and the act and deed of the Trust.

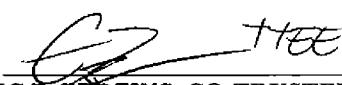
GIVEN under my Hand and Seal of Office the day and year aforesaid.


Notary Public _____
My Commission Expires: _____

VERONICA O. FAUST
Attorney at Law
Notary Officer, State of Delaware
Pursuant to 29 Del.C §4323(a)(3)
My Commission Has No Expiration Date

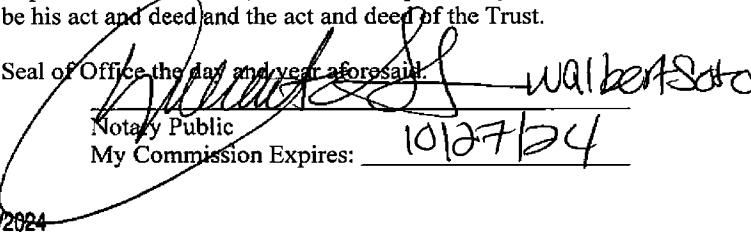
IN WITNESS WHEREOF, the parties of the first part have hereunto set their hands and seals the day and year first above written.


Witness
Walbert Soto

By:  (SEAL)
ERIC E. BERZINS, CO-TRUSTEE OF THE
SIGURD E. BERZINS REVOCABLE TRUST,
DATED NOVEMBER 10, 2008

STATE OF FLORIDA, COUNTY OF Orange : to-wit

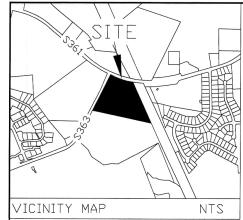
BE IT REMEMBERED, that on 11/25th 2022, personally came before me, the subscriber **Eric E. Berzins, Co-Trustee of the Sigurd E. Berzins Revocable Trust, Dated November 10, 2008**, party of the first part to this Indenture, known to me personally to be such, and acknowledged this Indenture to be his act and deed and the act and deed of the Trust.

GIVEN under my Hand and Seal of Office the day and year aforesaid: 

Notary Public
My Commission Expires: 10/27/24



Walbert Soto
State of Florida
My Commission Expires 10/27/2024
Commission No. HH 50461



VICINITY MAP NTS

LEGEND

NOT TO SCALE	NTS
POINT OF BEGINNING	P.B.
POINT OF COMMENCEMENT	P.C.
POST	POST
PROPERTY LINE	—
ADJACENT PROPERTY LINE	—
CONCRETE MONUMENT FOUND	CMF
CAPPED IRON PIN SET	CIPS

CMF

DOUBLE BRIDGES ROAD
VARIED WIDTH R/W
(S363)

CMF

CMF