

INDEX OF SHEETS		
SHEET NO.	TITLE	DPS FILE NO.
1	TITLE SHEET	SC0001
2	GENERAL PLAN & ELEVATION	
3	GEOMETRIC LAYOUT	
4	ABUTMENT A PLAN & ELEVATION	
5	ABUTMENT B PLAN & ELEVATION	
6	ABUTMENT AND FOOTING REINFORCEMENT DETAILS	
7	ANCHOR BOLT LAYOUT DETAILS	
8	TYPICAL SECTIONS	
9	PROPOSED RIPRAP PLAN	
10	BORINGS AND TEST DRIVES	
11	EROSION AND SEDIMENT CONTROL NOTES	SC0002
12	EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION	SC0003
13	EROSION AND SEDIMENT CONTROL PLAN	SC0004
14	EROSION AND SEDIMENT CONTROL STANDARD DETAILS – 1	SC0005
15	EROSION AND SEDIMENT CONTROL STANDARD DETAILS – 2	SC0006
16	SURVEY DATA	
17	FOREST CONSERVATION PLAN SHEET – 1	
18	FOREST CONSERVATION PLAN SHEET – 2	

DRAINAGE STATEMENT

I understand that DPS approval of this sediment control/stormwater management plan is for demonstrated compliance with required environmental runoff treatment standards. This DPS sediment control/stormwater management plan approval does not relieve me of professional responsibility. I have analyzed the proposed design for sediment control permit no. 294883 and hereby certify that, based upon my background, training and experience, I have determined that the proposed improvements shown on this plan meet relevant laws and regulations. I further acknowledge that I have analyzed the post development drainage patterns for this project from the standpoint of my responsibilities under current Maryland Law and have determined that if permission is required from adjacent property owners, I have obtained it and have made copies of those permissions available to DPS.



Engineer's Signature

8/14/2024

Date

Michael W. Mercado, P.E.

Printed Name

TREE CANOPY REQUIREMENTS TABLE

To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.

Exempt: Yes ☐ No ☒ If exempt under Section 55-5 of the Code, please check the applicable exemption category below.

Total Property Area

146,165 square feet

Total Disturbed Area

10,776 square feet

Shade Trees Required

9

Shade Trees Proposed to be Planted

0

Fee in Lieu

(Trees Required – Trees Planted) x \$250

\$ 2,250

Required Number of Shade Trees

Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required	
FROM 1	TO 6,000	3
6,001	8,000	6
8,001	12,000	9
12,001	14,000	12
14,001	40,000	15

If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula:

(Number of Square Feet in Limits of Disturbance ÷ 40,000) × 15

EXEMPTION CATEGORIES:

☐ 55-5(a) any activity that is subject to Article II of Chapter 22A;

☐ 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A;

☐ 55-5(f) any activity conducted by the County Parks Department;

☐ 55-5(g) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the

☐ maintenance has obtained all required permits;

☐ 55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits;

☐ 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams;

☐ OTHER: Specify per Section 55-5 of the Code.

APPROVED

Department of Permitting Services

Permit # SC0002-20245

Date 09/03/24

MONTGOMERY COUNTY

DEPARTMENT OF TRANSPORTATION

AUTH LANE TO KERSEY ROAD

PEDESTRIAN BRIDGE

C. I. P. PROJECT NO. 0502505


VICINITY MAP
SCALE : 1"= 2000'
MONTGOMERY COUNTY
LENGTH OF PROJECT: 0.2 MILES

OWNER'S/DEVELOPER'S CERTIFICATION

I/We hereby certify that all clearing, grading, construction, and or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

8/19/2024

DATE




JOSE THOMMANA
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I hereby certify that this plan has been prepared in accordance with the "2011 Maryland Standards and Specification for Soil Erosion and Sediment Control," Montgomery County Department of Permitting Services Executive Regulations 5–90, 7–02AM and 36–90, and Montgomery County Department of Public Works and Transportation "Storm Drain Design Criteria" dated August 1988.

8/14/2024


DATE



MICHAEL MERCADO, P.E.
MERCADO CONSULTANTS, INC.

CERTIFICATION OF THE QUANTITIES

I hereby certify that the estimated total yards of excavation and fill as shown on this plan has been computed to 13.5 cubic yards of excavation, 13 cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be 10,776 square feet.



SIGNATURE

8/14/2024


DATE

MICHAEL MERCADO, P.E.

PRINTED NAME AND TITLE

38931

REGISTRATION NUMBER

	NO.	REVISION	DATE	BY	PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO: 38931 EXPIRATION DATE: 12-22-2025

RELATED REQUIRED PERMITS					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District	X		405163		
WATERWAYS/WETLAND(S):					
a. Corps of Engineers	X		24-NT-3083/202460773	08/23/2029	March 1 through May 31
b. MCE	X		24-NT-3083/202460773	08/23/2029	March 1 through May 31
c. MCE Water Quality Certification		X			
MCE Dam Safety		X			
* DPS Roadside Trees Protection Plan	X		MC001 BLANKET PERMIT NO. 361405	Approval Date	
N.P.D.E.S. NOTICE OF INTENT		X			DATE FILED
FEW LUMP (Required Post Construction)		X			
OTHERS:					
DPS Erosion and Sediment Control	X		294883		
MNCPPC Permit		X			
* A copy of the Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting.					
OWNER/PERMIT APPLICANT INFORMATION					
NAME: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION					
ADDRESS: 100 EDISON PARK DRIVE 4th FLOOR, GAITHERSBURG, MD 20878					
PHONE NUMBER: (240) 777-7720					
CONTACT PERSON: RASHID ABRAMON, P.E.					

SEQUENCE OF CONSTRUCTION

1. SEE SHEET SC0003 FOR SEQUENCE OF CONSTRUCTION.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND MONTGOMERY COUNTY DESIGN STANDARDS.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- CALL "MISS UTILITY" AT 1-800-257-7777 FORTY- EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
- CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.
- ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
- FOR CONSTRUCTION, ALL HORIZONTAL AND VERTICAL CONTROLS SHALL BE NAD 83 (2007) AND NAVD 88 DATUM


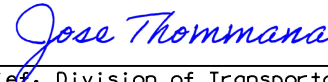
RECORD DRAWING CERTIFICATION

A record set of approved Sediment Control/Stormwater Management plans must be maintained on-site at all times. In addition to stormwater management items, these plans must include the number and location of all trees proposed to comply with the Tree Canopy Law. Any approved modifications or deletions of stormwater practices or tree canopy plantings or information must be shown on this record set of plans and on the Tree Canopy Requirements table. Upon completion of the project, this record set of plans, including hereon this signed Record Drawing Certification, must be submitted to the MCDPS inspector. In addition to this Record Drawing Certification, a formal Stormwater Management As-Built submission [] is required [X] is not required for this project.

If this project is subject to a Stormwater Management Right of Entry and Maintenance Agreement, that document is recorded in Montgomery County Land Records at:
Liber _____ N/A _____ Folio _____ N/A _____. This Record Drawing will serve as referenced in the recorded document.

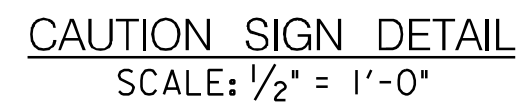
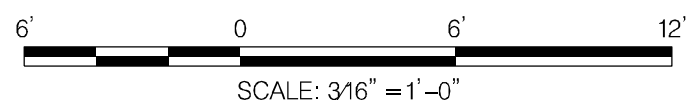
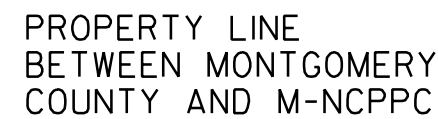
"This record drawing accurately and completely represents the stormwater management practices and tree canopy plantings as they were constructed or planted. All stormwater management practices were constructed per the approved Sediment Control / Stormwater Management plans or subsequent approved revisions."
No Signature Required _____ N/A _____
Owner/Developer Signature _____ Date _____

FIELD CHECK OF RECORD DRAWING BY MCDPS INSPECTOR: INITIALS: _____ DATE: _____

TECHNICAL REVIEW OF SEDIMENT CONTROL		ADMINISTRATIVE REVIEW			
Bill Musico	09/02/24	Bill Musico	09/02/24		
REVIEWED	DATE	REVIEWED	DATE		
TECHNICAL REVIEW OF STORMWATER MANAGEMENT		SMALL LOT DRAINAGE APPROVAL			
		N/A: <input checked="" type="checkbox"/> OR			
Bill Musico	09/02/24	Bill Musico	09/02/24		
REVIEWED	DATE	REVIEWED	DATE		
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.			
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND					
RECOMMENDED FOR APPROVAL  Chief, Design Section APPROVED  Chief, Division of Transportation Engineering		August 19, 2024 Date August 19, 2024 Date			
Designed by : MMW		Drawn by : NL Checked by : MMW			
AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE					
TITLE SHEET					
SCALE : AS SHOWN		DATE : JULY, 2024			
Project No. : 0502505		SHEET 1 of 18			

Digitally signed by Michael Mercado
DN: cn=Michael Mercado, c=US, ou=Mercado
Consultants, Inc., ou=Mercado Consultants, Inc.,
email=mmercado@mercadoeng.com
Date: 2024.09.03 11:35:55 -0400

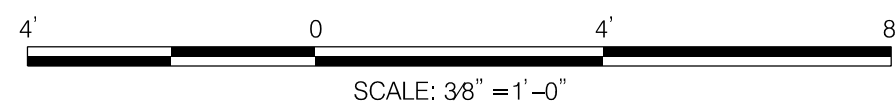
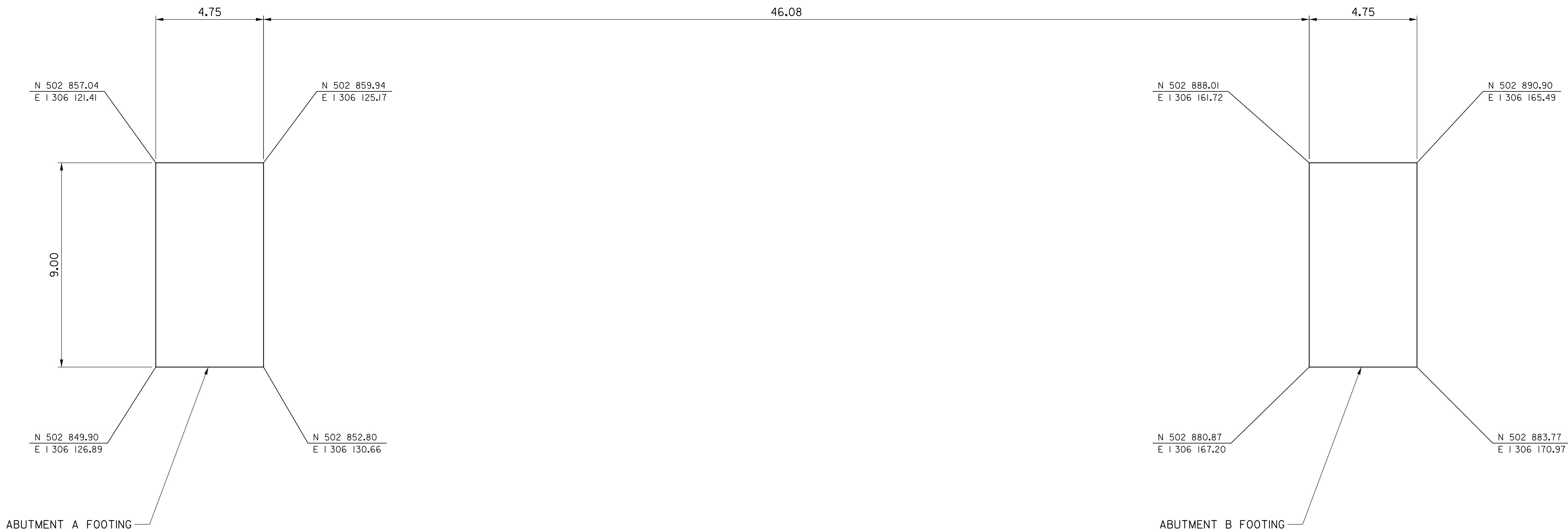
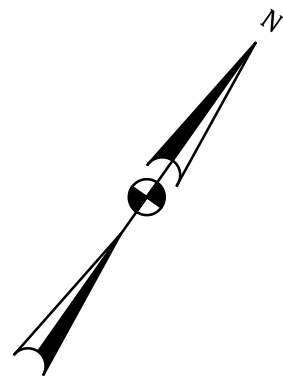
7/26/2024 3:29:30 PM
F:\Projects\U908\23 Auth Ln Ped Bridge\0 CAD\Structures\p0N-T000-Author.dgn



1.5" Radius, 0.4" Border, 0.4" Indent, White on None;
 "BRIDGE MAY BE", B specified length;
 "SLIPPERY", C specified length;
 "WHEN WET", C specified length;

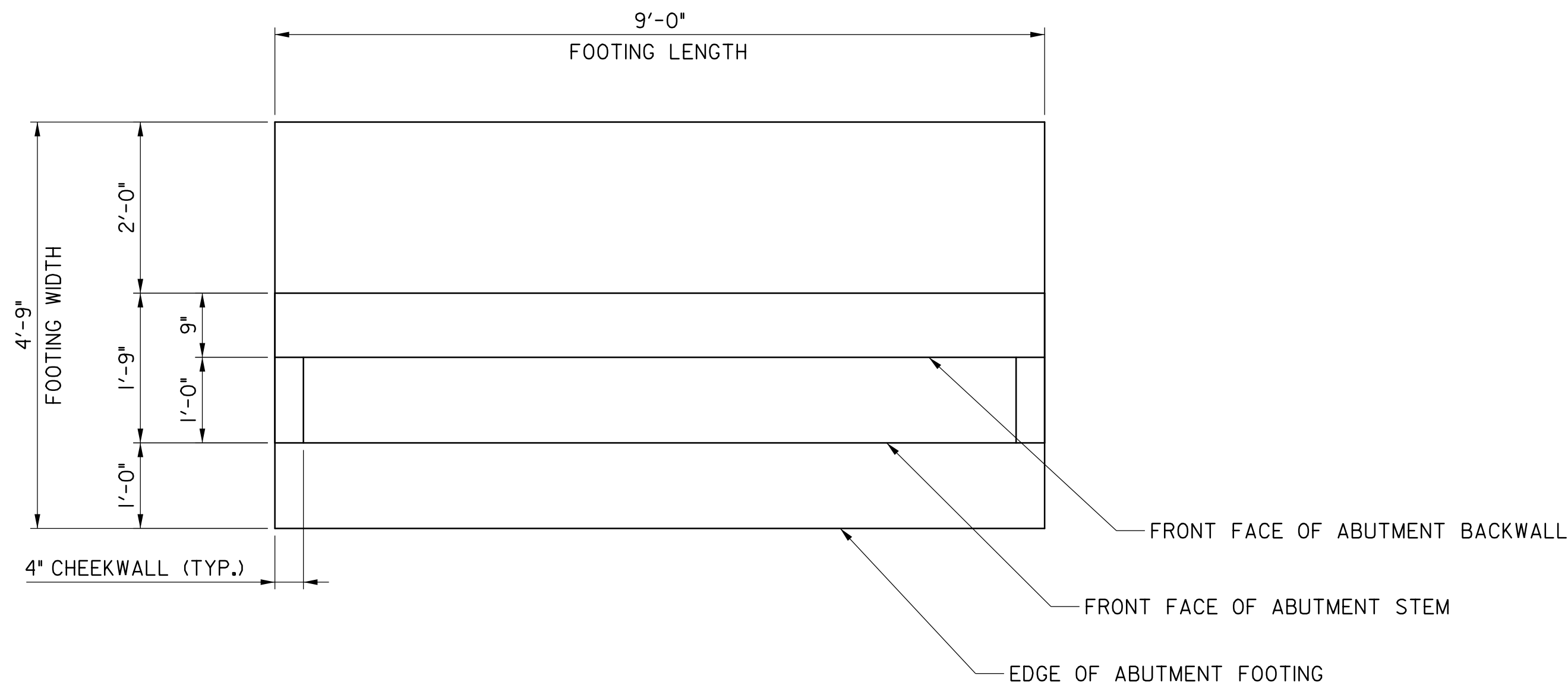
Project No. : 0502505 SHEET 2 of 18

7/26/2024
P:\Projects\1908\1908.29 Auth Ln Ped Bridge\10 CADD\Structures\DBR-GP03_Auth.dgn

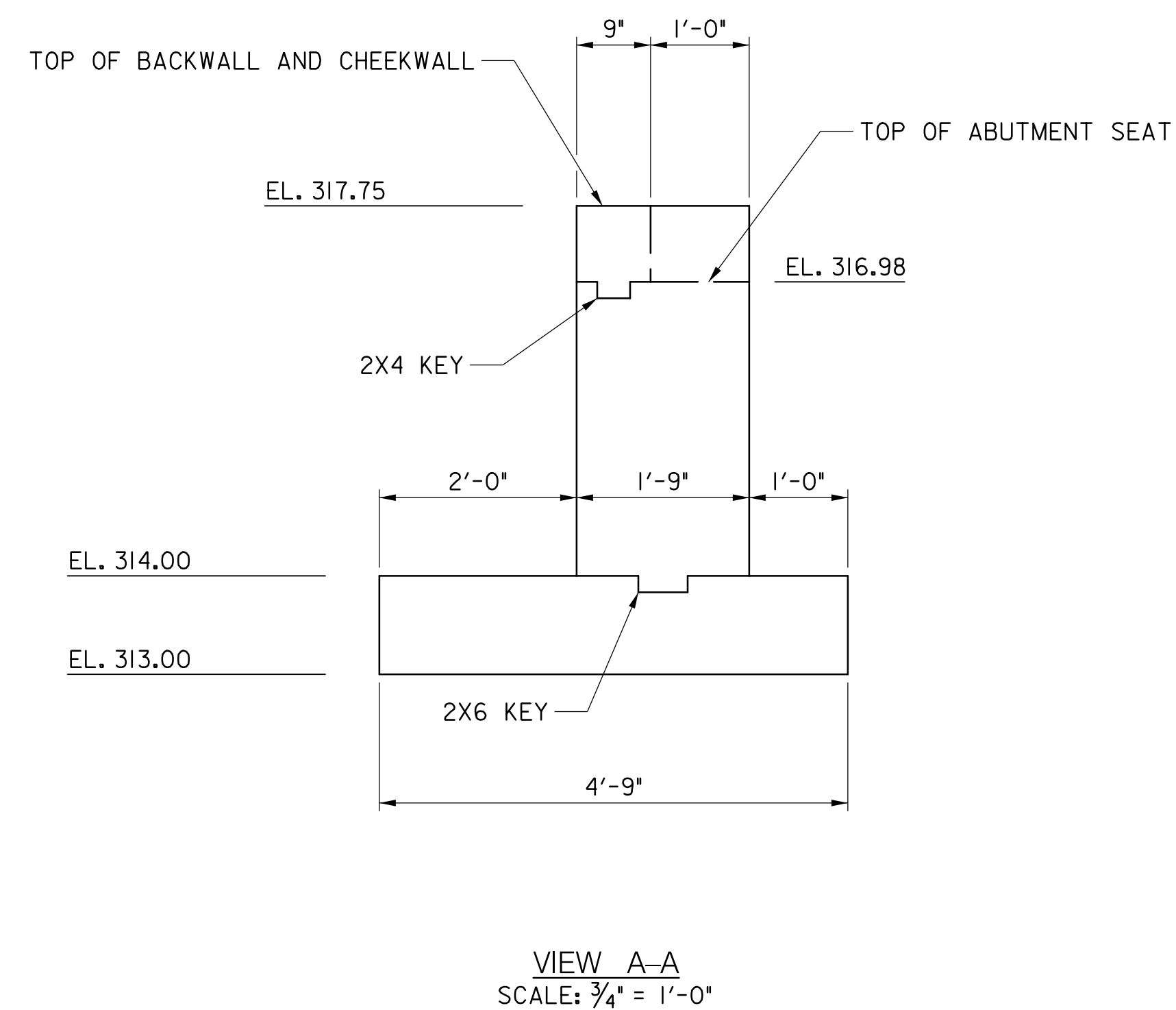
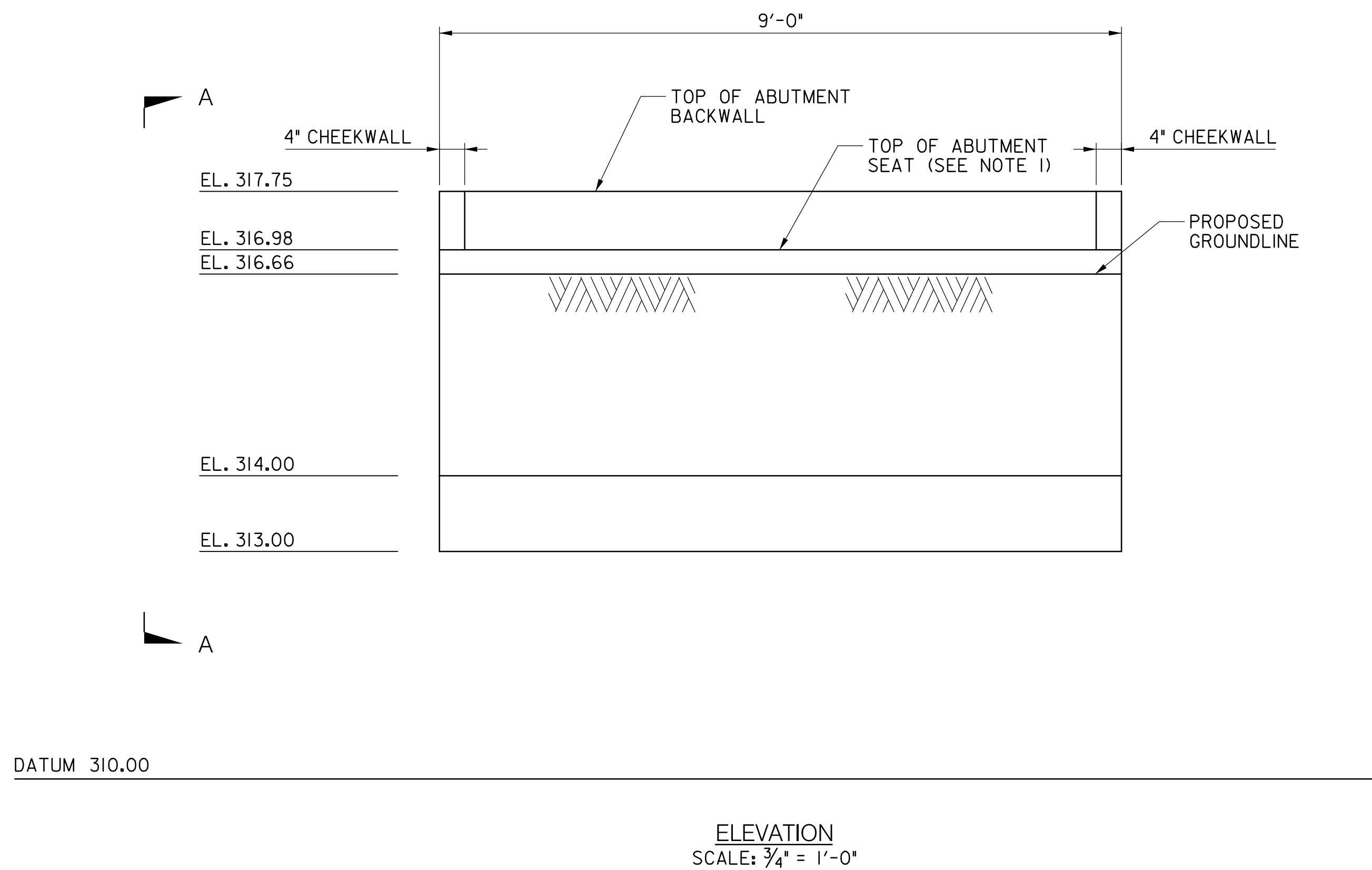


NO.	REVISION	DATE	BY

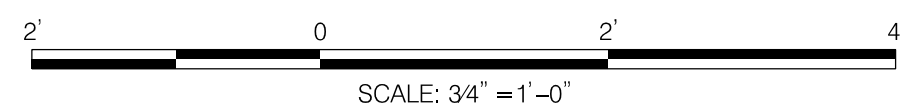
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND			AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE		
RECOMMENDED FOR APPROVAL See Title Sheet Chief, Design Section APPROVED See Title Sheet Chief, Division of Transportation Engineering			GEOMETRIC LAYOUT SCALE : 3 / 8" = 1'-0" DATE : JULY, 2024		
Designed by : MR	Drawn by : MR	Checked by : MM	Project No. : 0502505	SHEET 3	of 18



- NOTES:
- TOP OF ABUTMENT SEAT ELEVATION SHALL BE COORDINATED WITH FRP BRIDGE MANUFACTURER AND MAY VARY FROM THE ELEVATION SHOWN ON THIS SHEET.

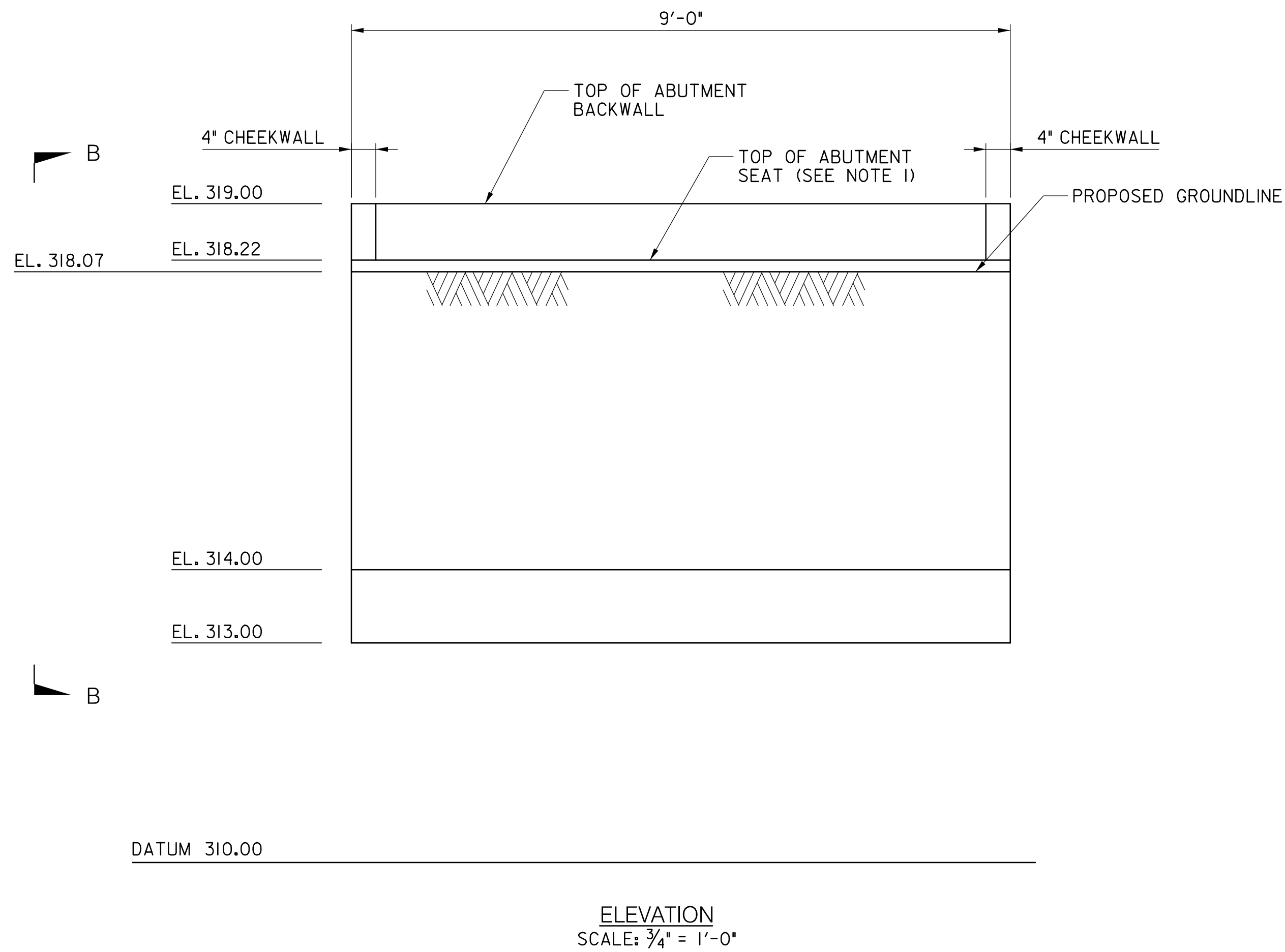
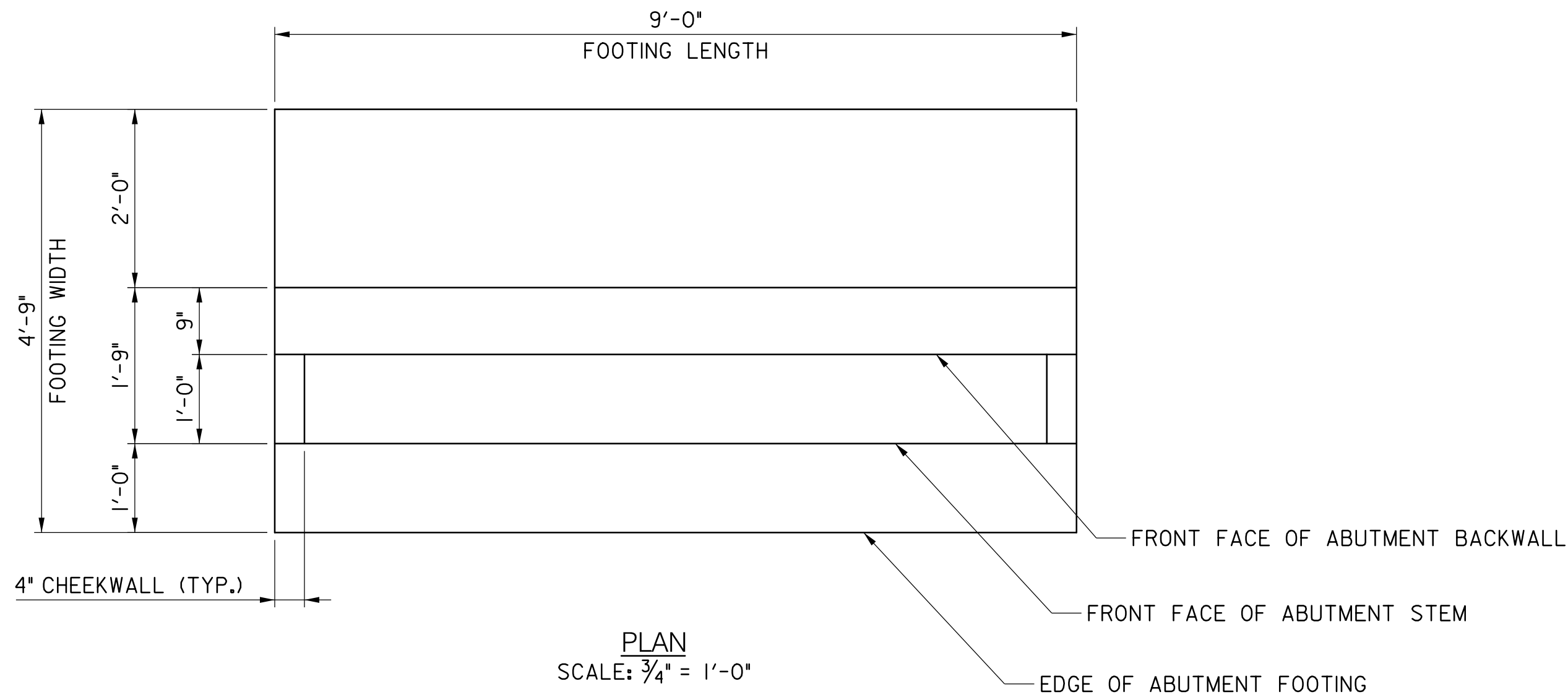


7/26/2024
P:\Projects\1908\1908.29 Auth Ln Ped Bridge\10 CADD\Structures\DR-AB00L_Auth.dgn



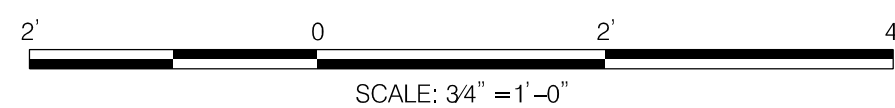
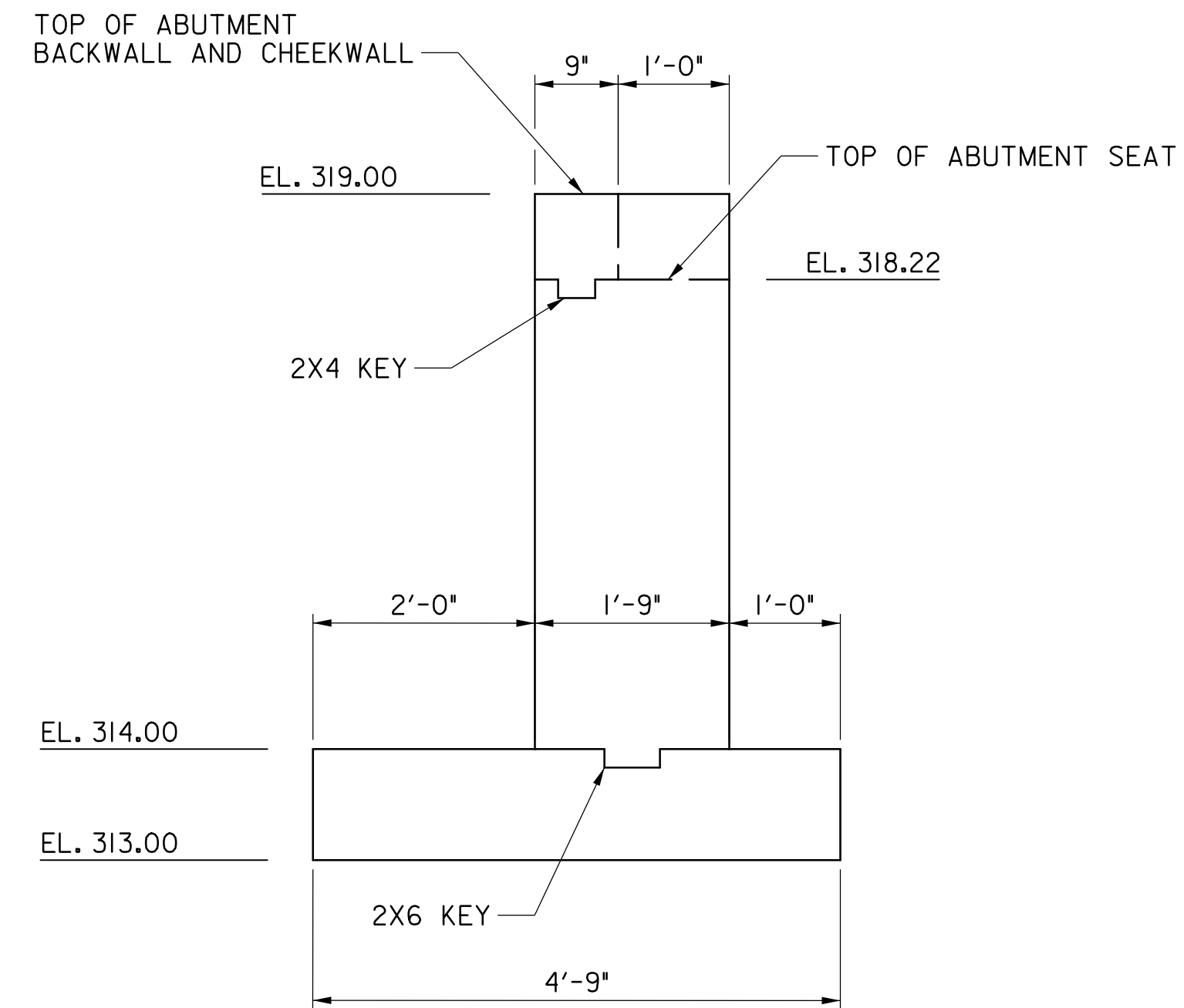
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
RECOMMENDED FOR APPROVAL See Title Sheet Chief, Design Section APPROVED		ABUTMENT A PLAN & ELEVATION	
See Title Sheet Chief, Division of Transportation Engineering		SCALE : 3 / 4" = 1'-0" DATE : JULY, 2024	
Designed by : MR Drawn by : MR Checked by : MM		Project No. : 0502505 SHEET 4 of 18	



NOTES:

1. TOP OF ABUTMENT SEAT ELEVATION SHALL BE COORDINATED WITH FRP BRIDGE MANUFACTURER AND MAY VARY FROM THE ELEVATION SHOWN ON THIS SHEET.



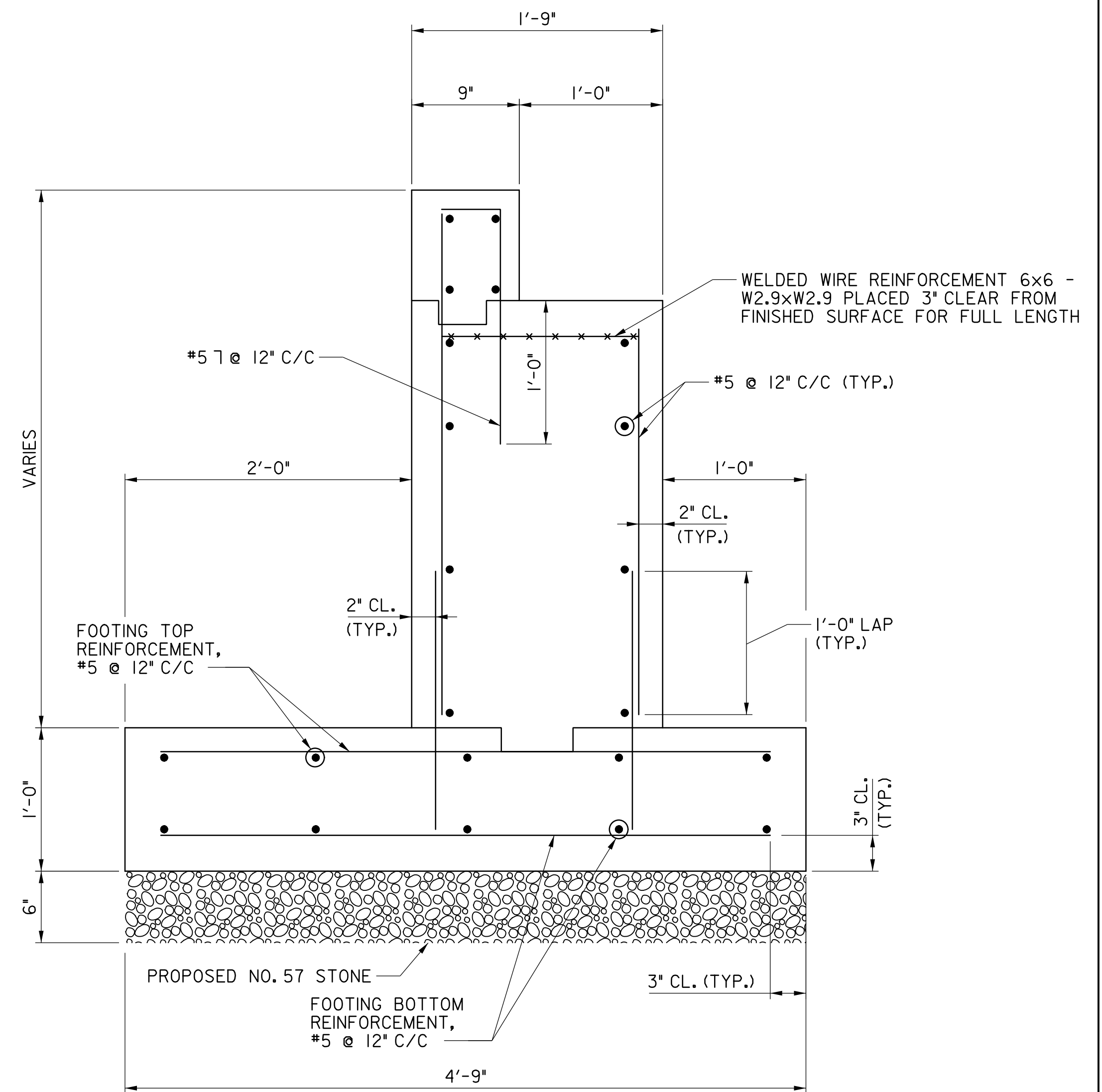
7/26/2024
P:\Projects\1908\1908.29 Auth Ln Ped Bridge\10 CADD\Structures\DR-AB01-Auth.dgn



NO.	REVISION	DATE	BY

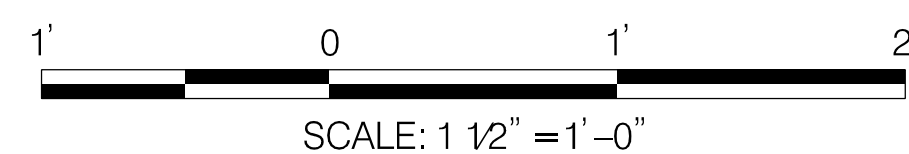
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
See Title Sheet Chief, Design Section APPROVED	Date
See Title Sheet Chief, Division of Transportation Engineering	Date
Designed by : MR	Drawn by : MR
Checked by : MM	

AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
ABUTMENT B PLAN & ELEVATION	
SCALE : 3 / 4" = 1'-0"	DATE : JULY, 2024
Project No. : 0502505	SHEET 5 of 18



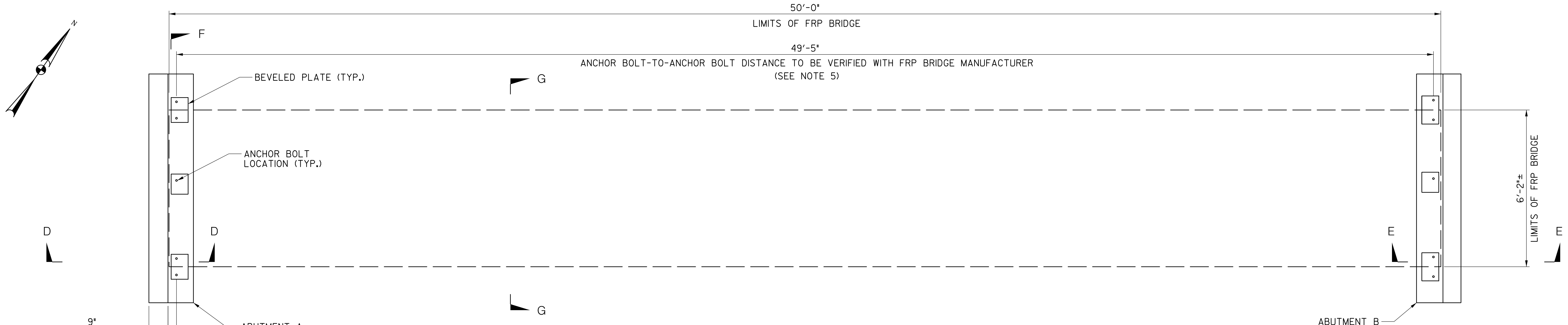
SECTION C-C
SCALE: 1 1/2" = 1'-0"

FINISHED SURFACE ELEVATIONS AT THE ABUTMENTS		
	ABUTMENT A	ABUTMENT E
TOP OF BACKWALL ELEVATION	317.75	319.00
TOP OF BEAM SEAT ELEVATION	316.98	318.22
TOP OF FOOTING ELEVATION	314.00	314.00
BOTTOM OF FOOTING ELEVATION	313.00	313.00

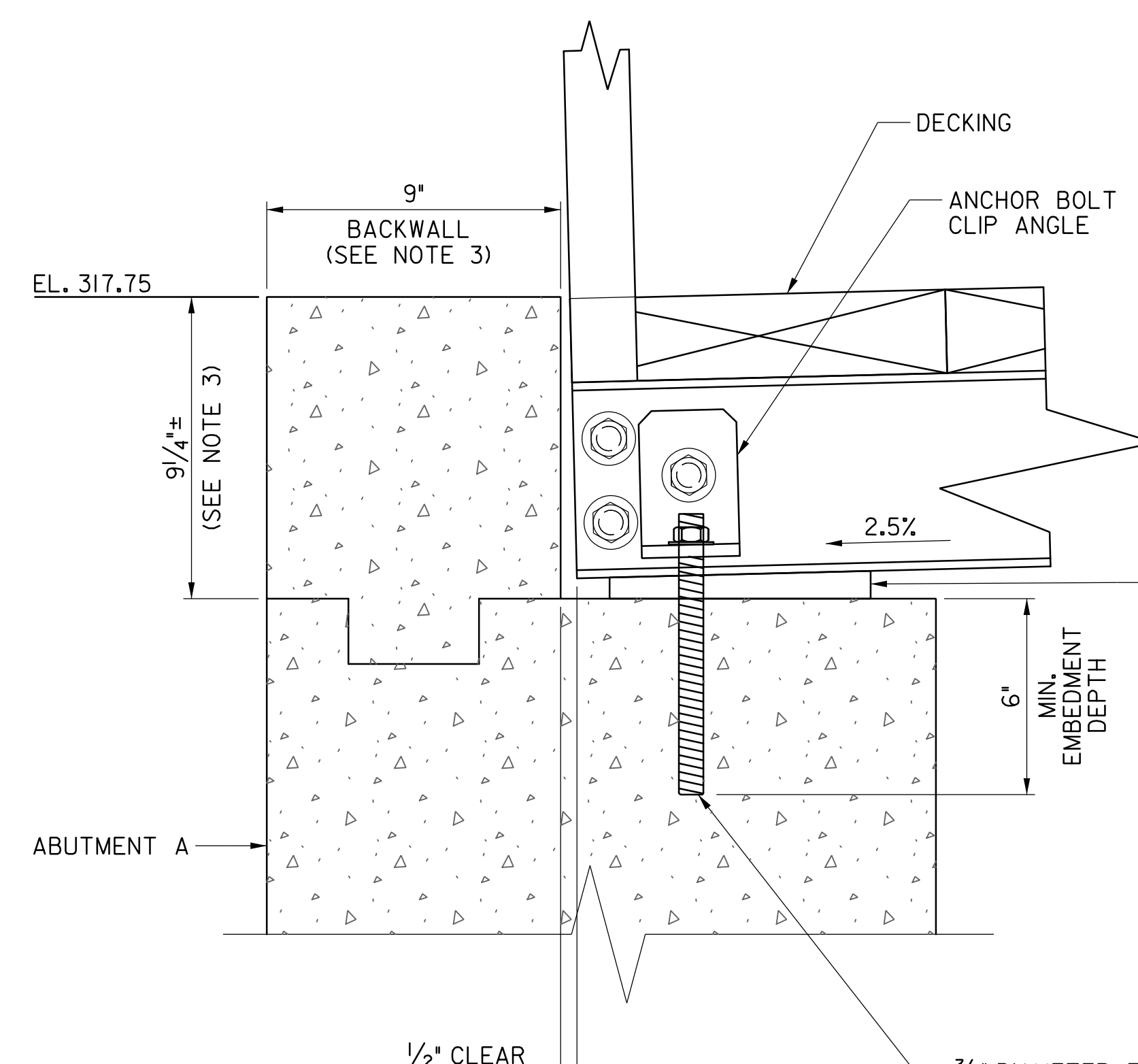


NO.	REVISION	DATE

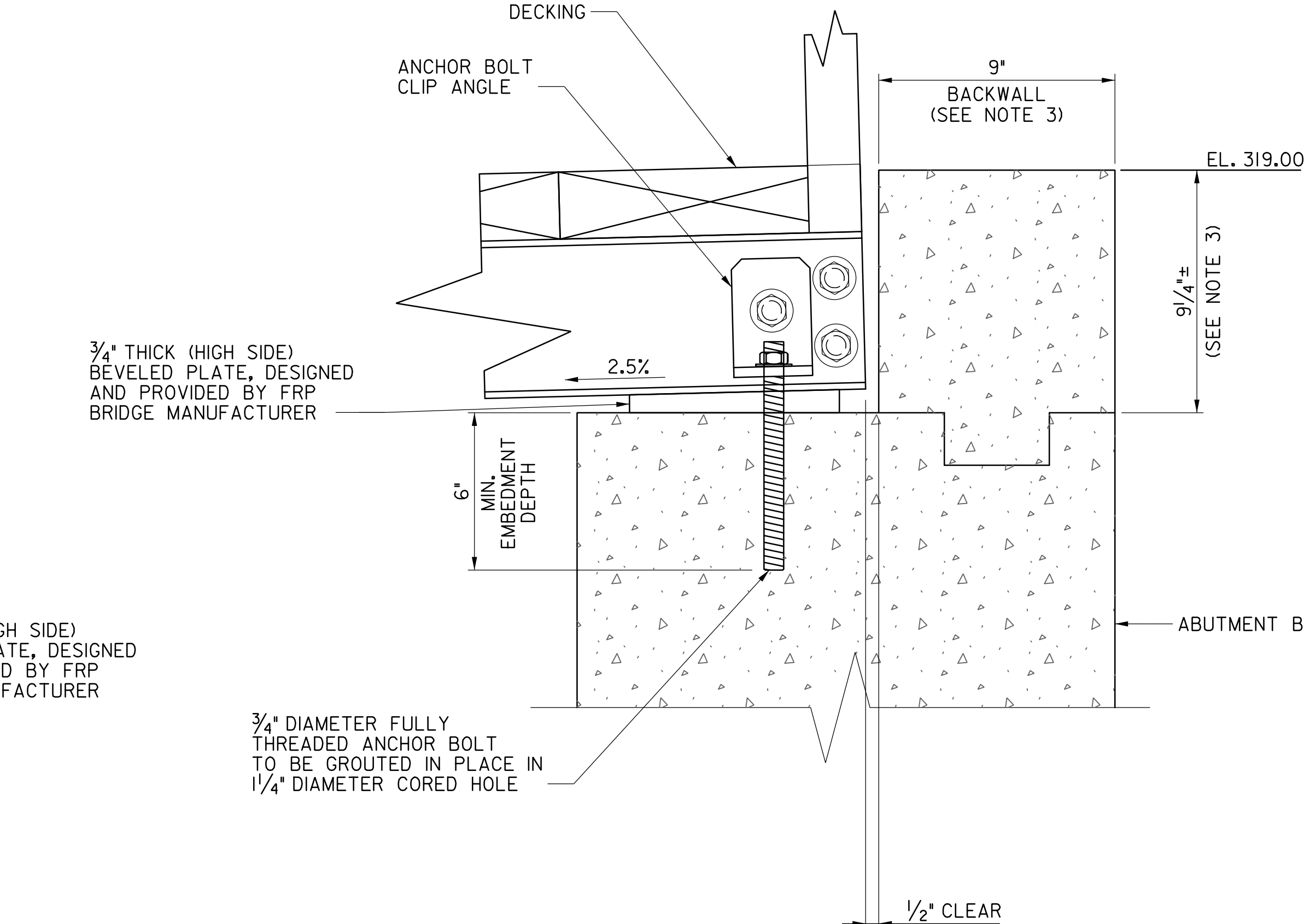
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
RECOMMENDED FOR APPROVAL See Title Sheet _____ Chief, Design Section _____ Date _____ APPROVED See Title Sheet _____ Chief, Division of Transportation Engineering _____ Date _____		ABUTMENT AND FOOTING REINFORCEMENT DETAILS	
Designed by : MR _____ Drawn by : MR _____ Checked by : MWM _____		SCALE : 1/2" = 1' - 0" DATE : JULY, 2024	
Project No. : 0502505		SHEET 6 of 18	



PLAN - ANCHOR BOLT LAYOUT
SCALE: 1/2" = 1'-0"

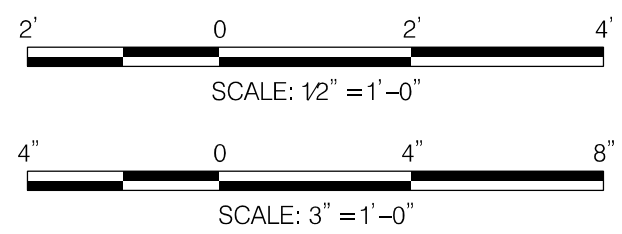


SECTION D-D
SCALE: 3" = 1'-0"



SECTION E-E
SCALE: 3" = 1'-0"

- NOTES:
- FOR SECTION F-F AND SECTION G-G, REFER TO SHEET 8.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE FRP BRIDGE MANUFACTURER PRIOR TO BEGINNING OF ANY WORK.
 - THE ABUTMENT BACKWALL SHALL BE POURED AFTER THE FRP BRIDGE HAS BEEN BUILT AND SECURED AT BOTH ABUTMENTS. TOP OF BACKWALL SHALL BE FLUSH WITH ADJACENT TOP OF DECKING.
 - THE ANCHOR BOLTS AND WASHERS SHALL BE UNPAINTED ASTM A 709 GRADE 50 GALVANIZED STEEL. ALL ANCHOR NUTS SHALL BE ASTM A 307 GALVANIZED STEEL.
 - ANCHOR BOLT HOLES SHALL NOT BE CORED UNTIL FRP BRIDGE IS IN PLACE ON TOP OF ABUTMENTS. ONCE FRP BRIDGE IS IN PLACE, CONTRACTOR SHALL MARK LOCATION OF ALL FIVE ANCHOR BOLTS PER ABUTMENT, REMOVE ANCHOR BOLT CONNECTING ANGLES, CORE HOLES, REATTACH CONNECTING ANGLES, AND GROUT THREADED ANCHOR BOLTS IN PLACE.



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

See Title Sheet
Chief, Design Section
APPROVED

See Title Sheet
Chief, Division of Transportation Engineering

Designed by : MR Drawn by : MR Checked by : MM

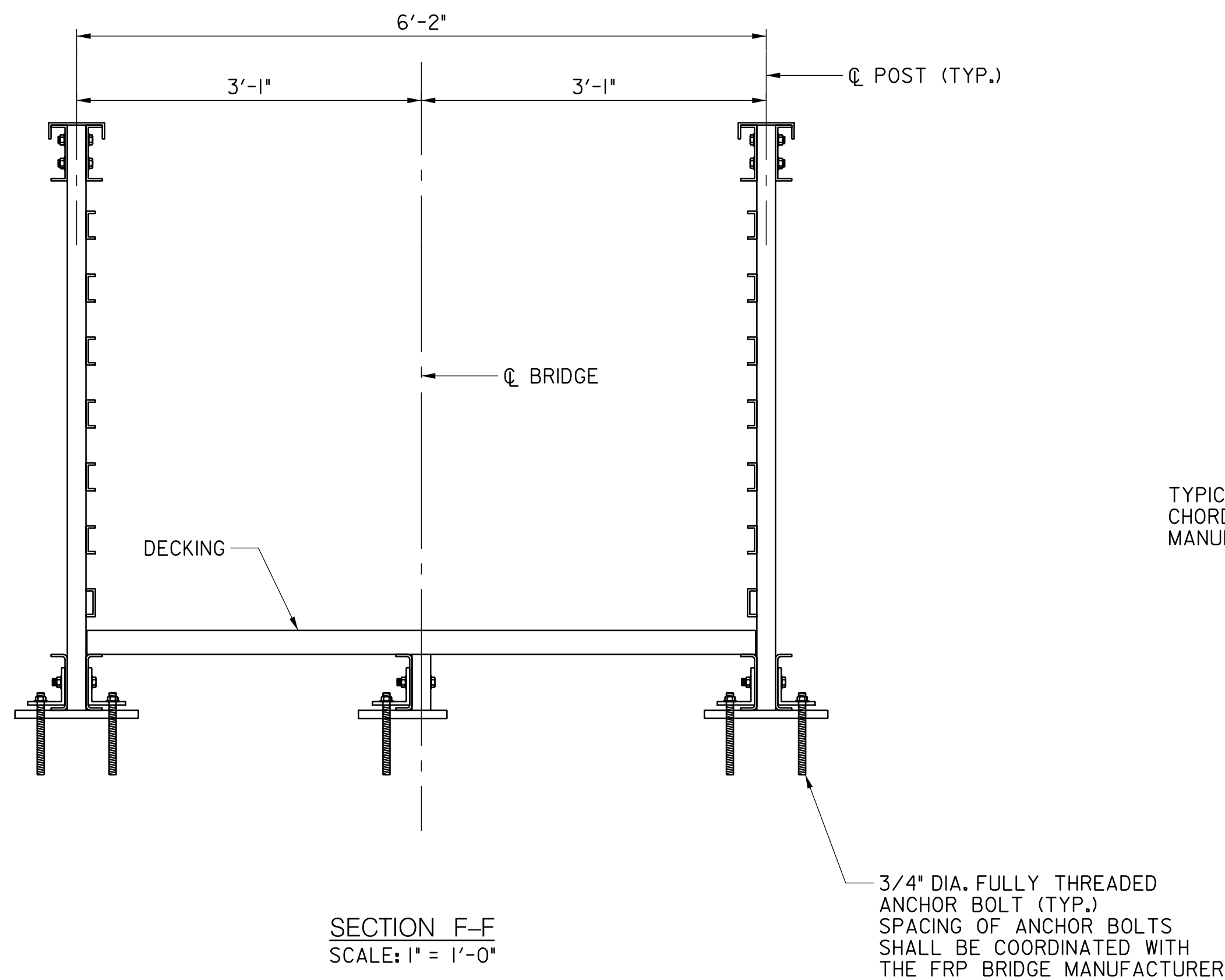
AUTH LANE TO KERSEY ROAD
PEDESTRIAN BRIDGE

ANCHOR BOLT LAYOUT DETAILS

SCALE : AS SHOWN DATE : JULY, 2024

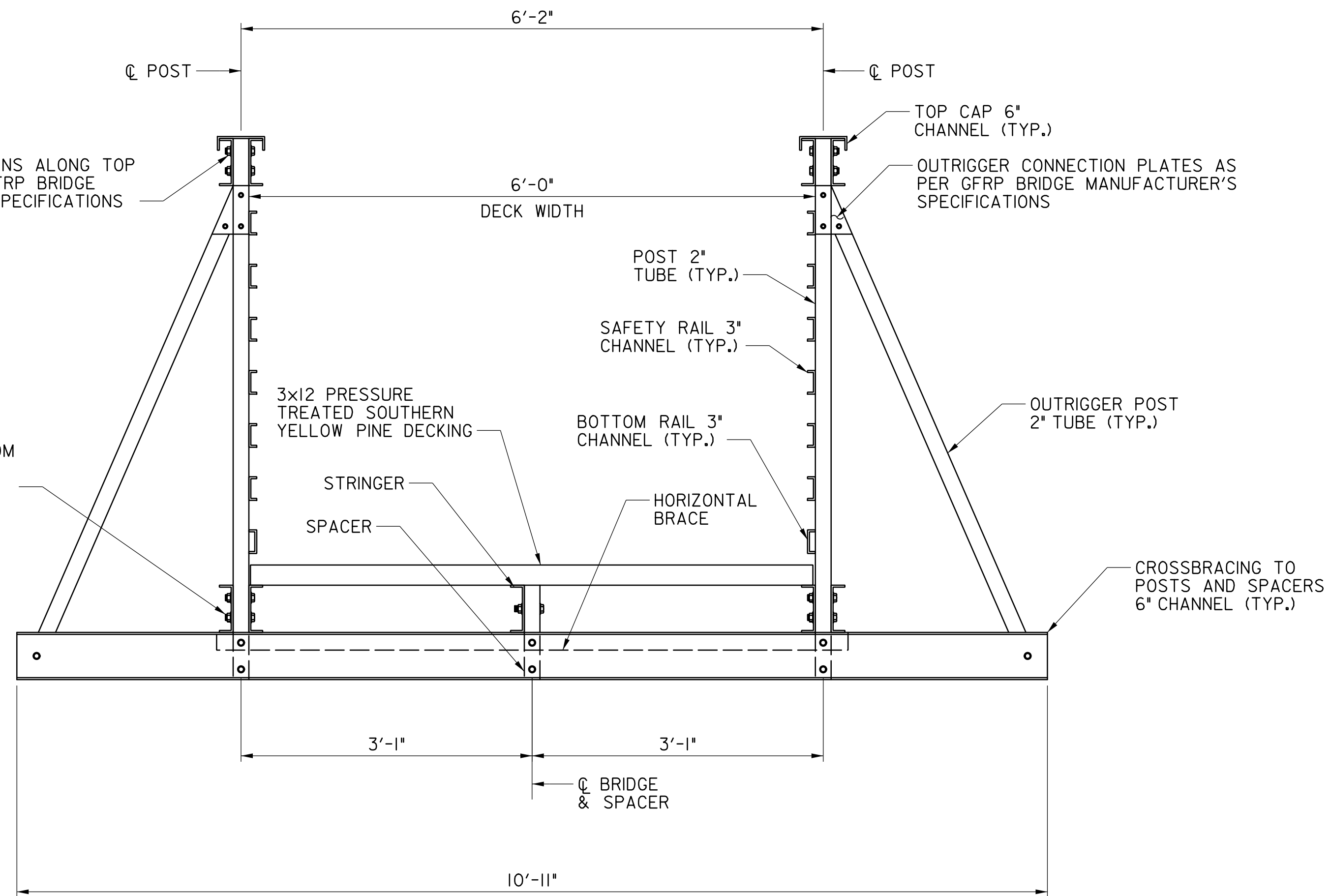
Project No. : 0502505 SHEET 7 of 18

7/26/2024
P:\Projects\1908\1908.29 Auth Ln Ped Bridge\10 CADD\Structures\DBR-0E02_Auth.dgn



TYPICAL CONNECTIONS ALONG BOTTOM CHORDS AS PER FRP BRIDGE MANUFACTURER'S SPECIFICATIONS

TYPICAL CONNECTIONS ALONG TOP CHORDS AS PER GFRP BRIDGE MANUFACTURER'S SPECIFICATIONS



NOTES:

1. TRUSS DIMENSIONS SHOWN ARE APPROXIMATE. FINAL DIMENSIONS MAY VARY DEPENDING ON PREFABRICATED TRUSS MANUFACTURER DETAILS AND APPROVAL FROM THE COUNTY.
2. TIMBER DECKING SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR IN THE FIELD.
3. ALL MEMBER CONNECTIONS SHALL BE AS PER FRP BRIDGE MANUFACTURER'S SPECIFICATIONS.
4. FOR LOCATIONS OF SECTIONS F-F AND G-G, SEE SHEET 7.

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



NO.	REVISION	DATE	BY

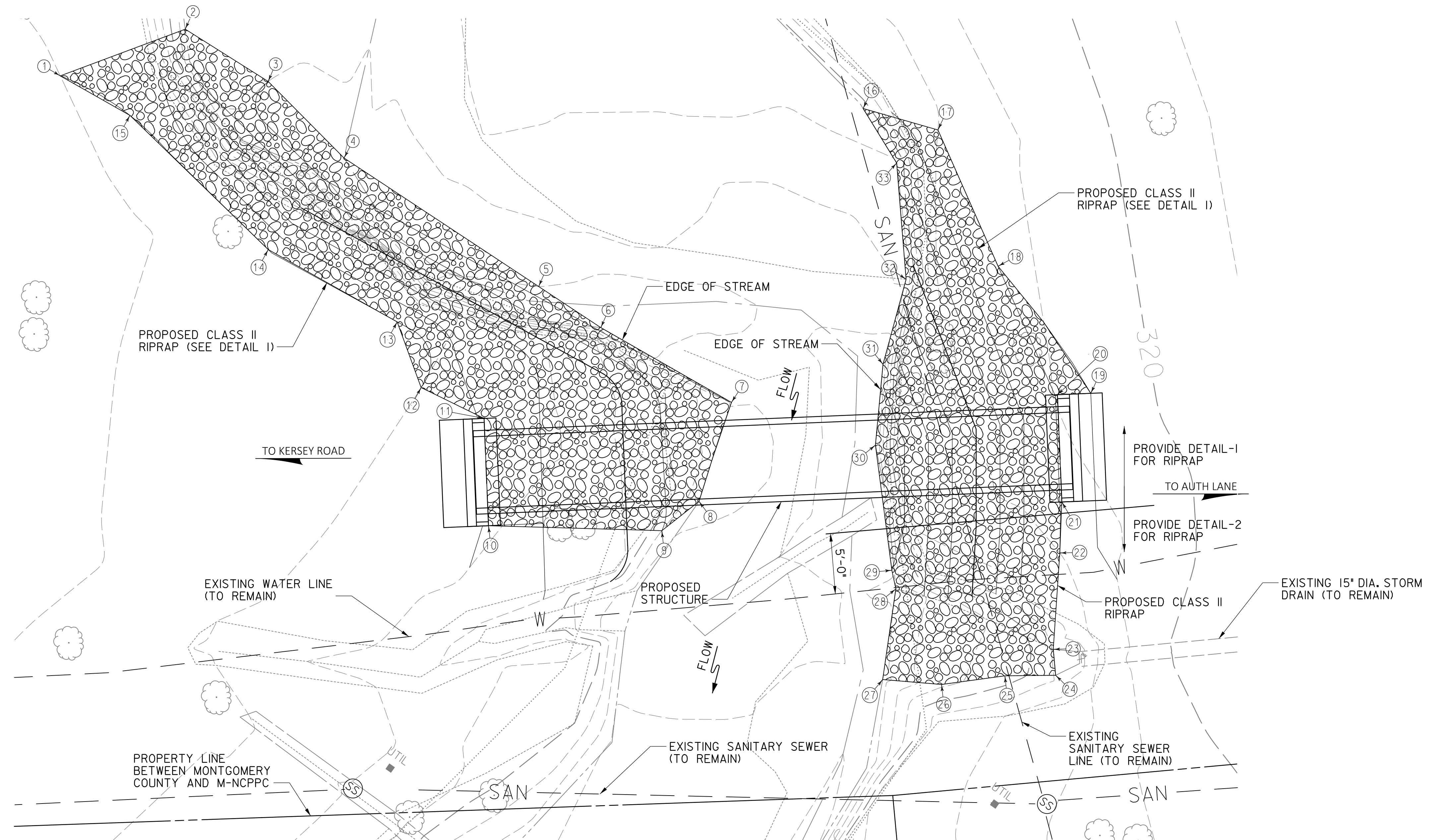
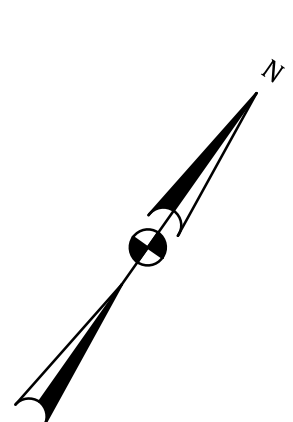
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
See Title Sheet Chief, Design Section APPROVED	Date
See Title Sheet Chief, Division of Transportation Engineering	Date
Designed by : MR	Drawn by : MR
Checked by : MWM	

AUTH LANE TO KERSEY ROAD
PEDESTRIAN BRIDGE

TYPICAL SECTIONS

SCALE : 1" = 1'-0" DATE : JULY, 2024

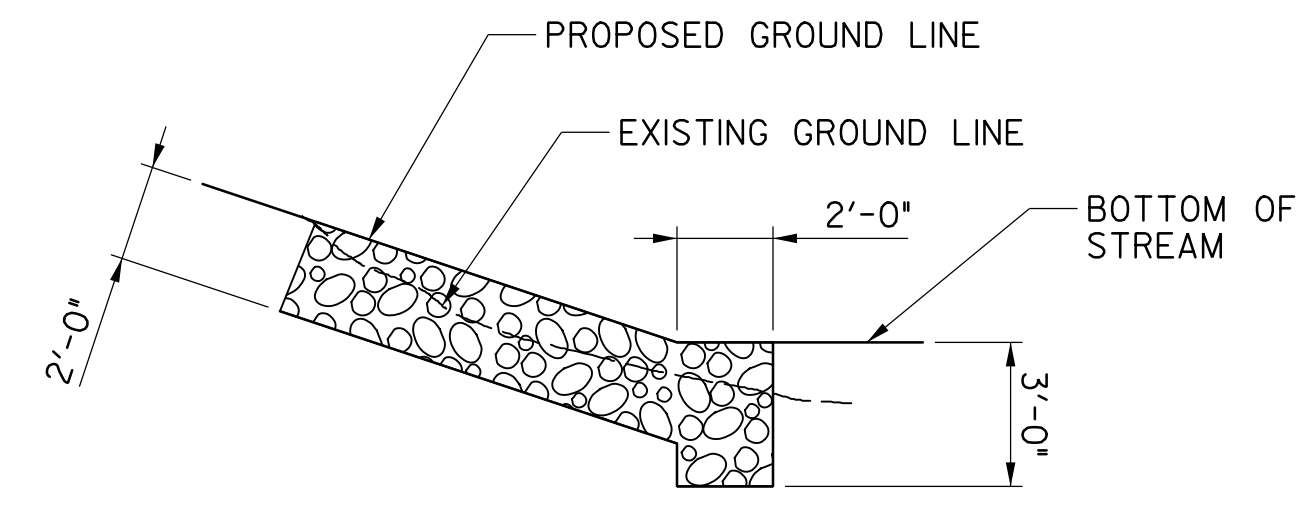
Project No. : 0502505 SHEET 8 of 18



PROPOSED RIPRAP COORDINATES		
NO	NORTHING	EASTING
1	502862.3514	1306078.8167
2	502871.5822	1306085.1255
3	502871.9958	1306093.3229
4	502870.4169	1306102.2182
5	502870.9987	1306121.7556
6	502871.1845	1306127.9964
7	502872.3592	1306140.5518
8	502864.0121	1306143.1114
9	502860.2142	1306141.9770
10	502852.1891	1306129.8635
11	502859.3262	1306124.3807
12	502858.4054	1306118.5802
13	502861.7528	1306113.7691
14	502860.4827	1306101.4465
15	502863.0044	1306085.4940
16	502898.8539	1306135.3855
17	502900.9979	1306141.5456
18	502894.5568	1306152.2451
19	502890.3218	1306164.7278
20	502888.6190	1306162.5112
21	502881.4819	1306167.9941
22	502877.8854	1306170.3120
23	502870.9707	1306174.5172
24	502869.3052	1306175.9361
25	502866.8212	1306172.4782
26	502863.1677	1306168.5606
27	502860.6692	1306164.2913
28	502867.5115	1306160.8190
29	502868.6023	1306159.6448
30	502876.3810	1306152.4800
31	502882.2828	1306149.0973
32	502889.2273	1306146.5710
33	502896.7381	1306140.3157

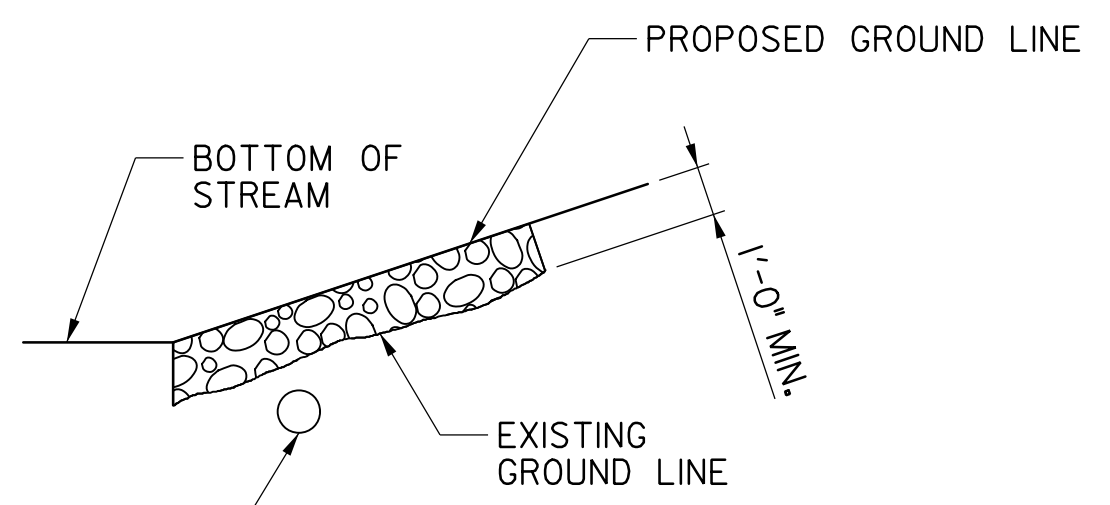
PLAN – PROPOSED RIPRAP PLACEMENT
SCALE: 3/16" = 1'-0"

- NOTES:
1. CLASS II RIPRAP SHALL BE A MINIMUM OF 24" THICK, EXCEPT AS NOTED IN NOTE 2. REFER TO RIPRAP DETAILS 1 AND 2.
 2. EXTREME CAUTION SHALL BE USED WHILE PLACING CLASS II RIPRAP WITHIN 5'-0" OF THE EXISTING WATER LINE. NO EXCAVATION IS PERMITTED FOR RIPRAP PLACEMENT IN THIS AREA.

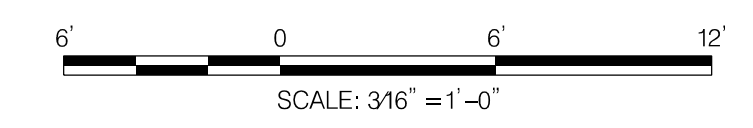


RIPRAP DETAIL-1
SCALE: 1/4" = 1'-0"

EXISTING WATER LINE. NO EXCAVATION SHALL OCCUR WITHIN 5'-0" OF WATER LINE. PLACE CLASS II RIPRAP ON TOP OF FINAL GRADING SHOWN. THICKNESS OF RIPRAP MAYBE LESS THAN 2'-0"



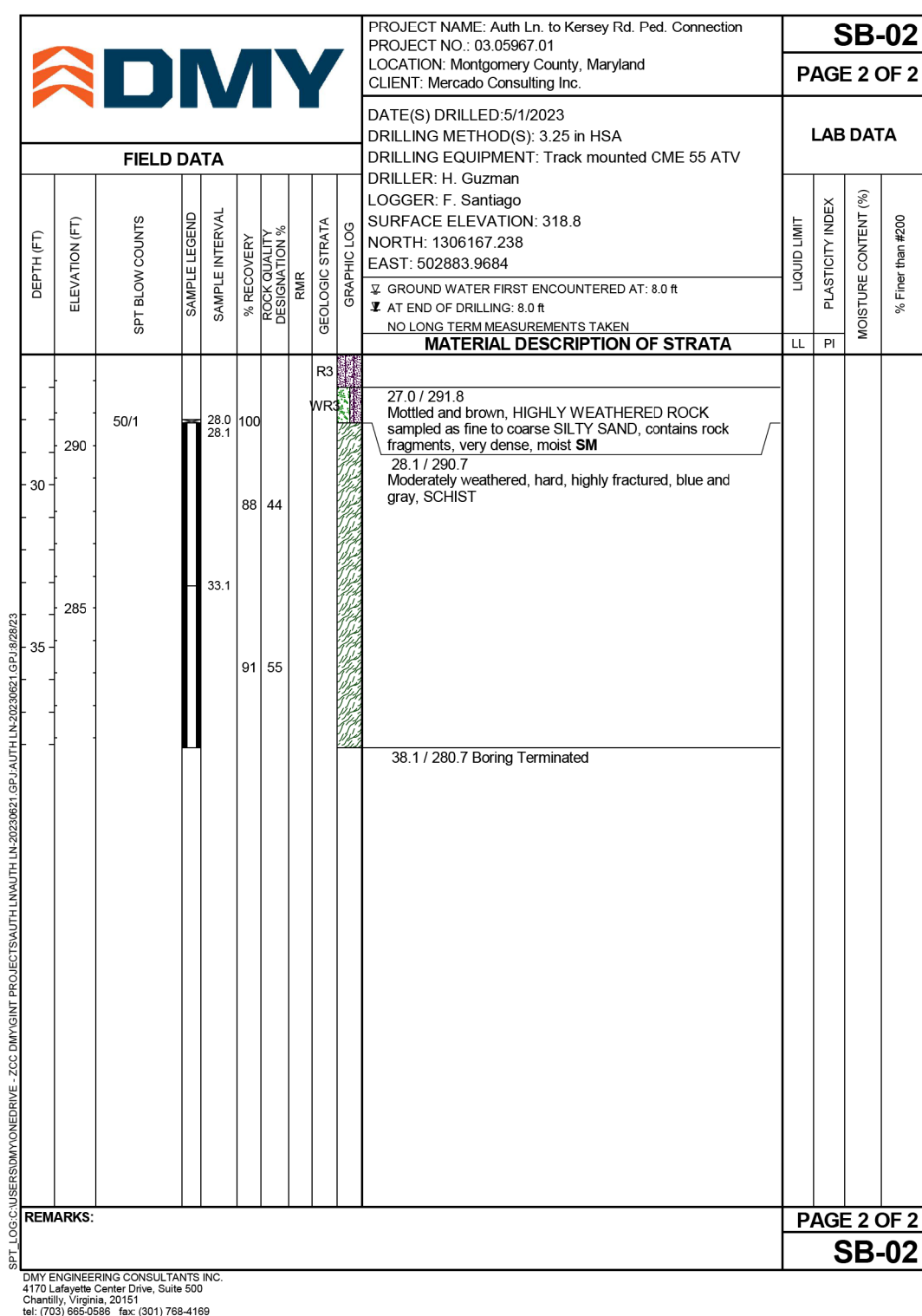
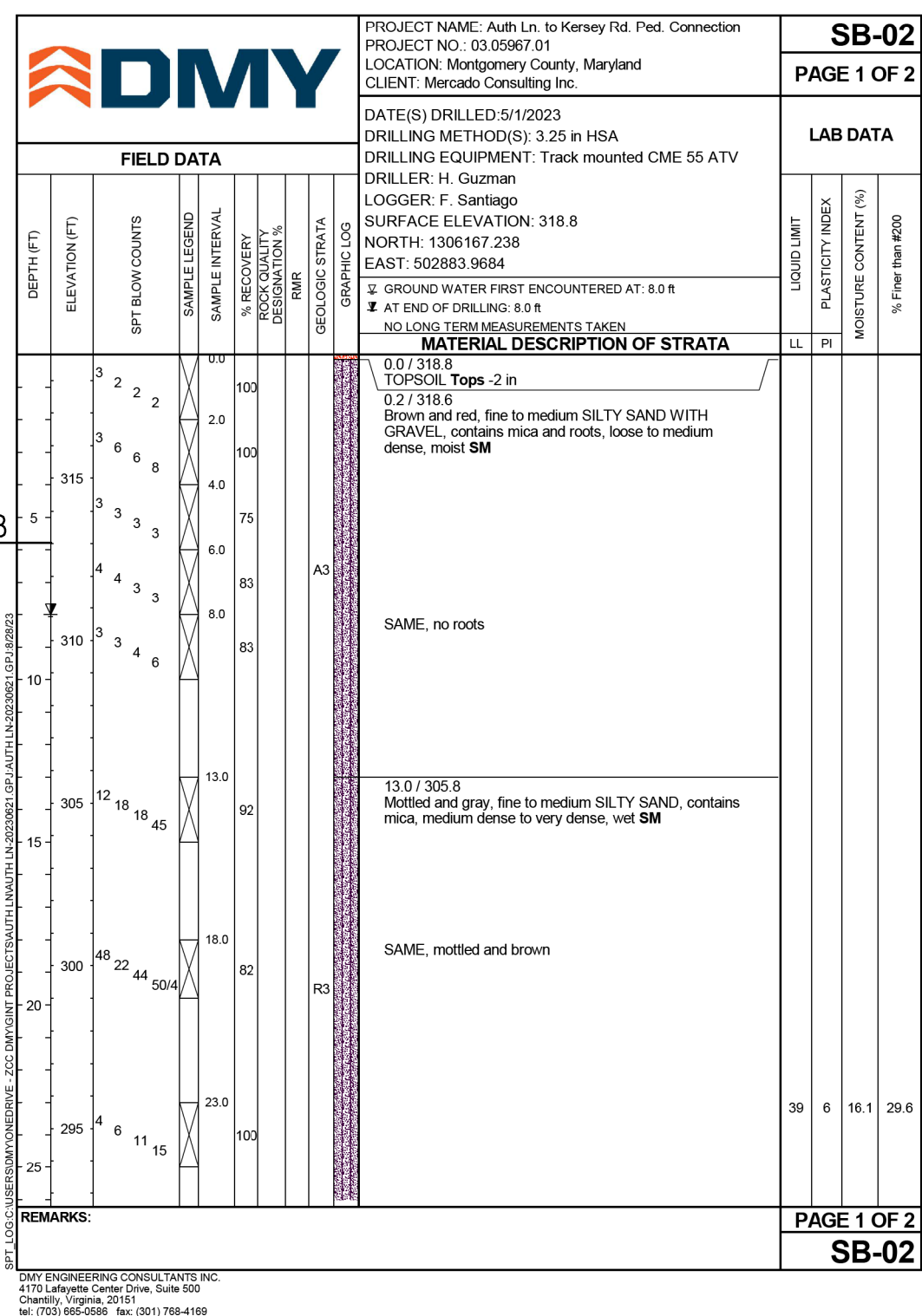
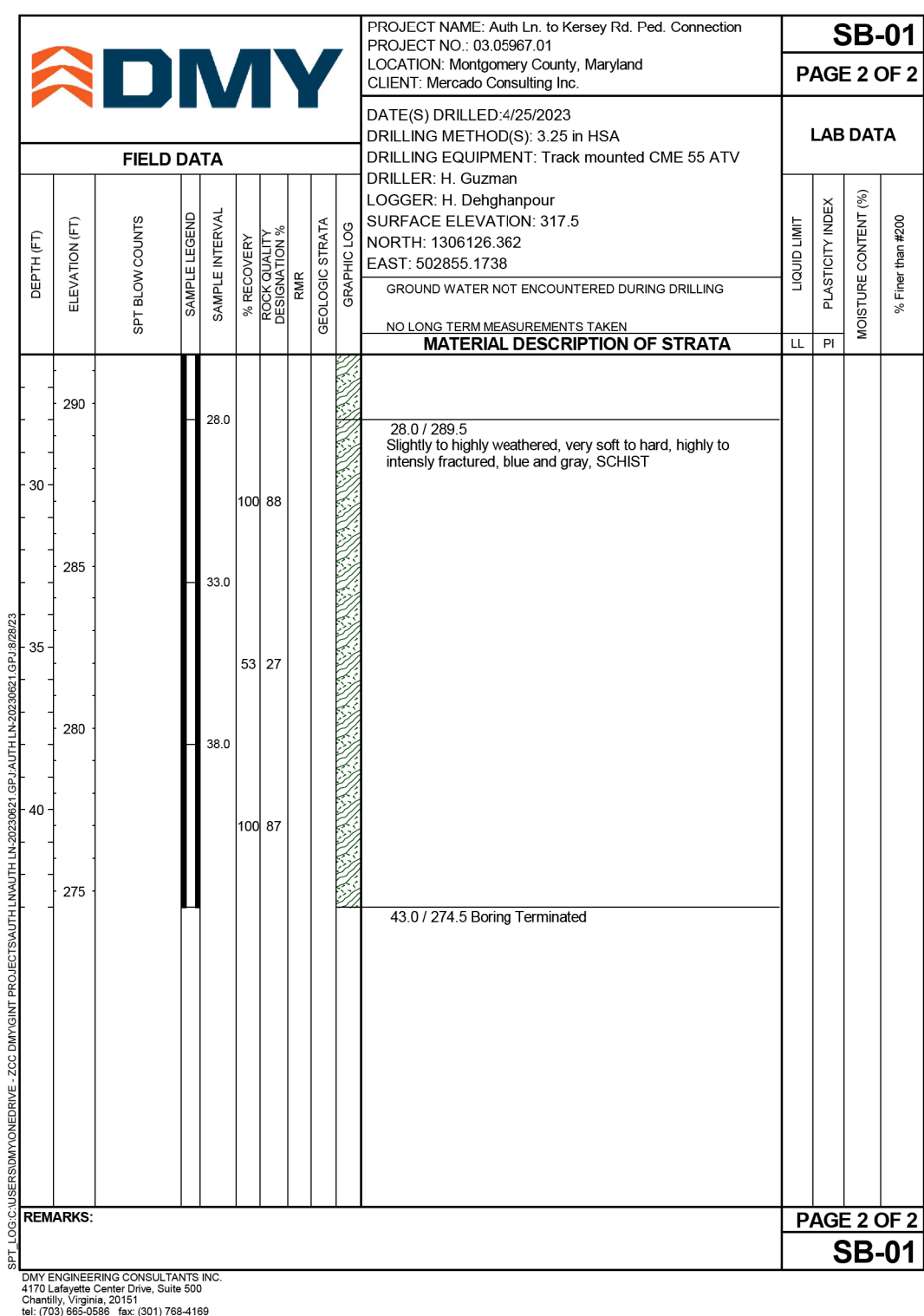
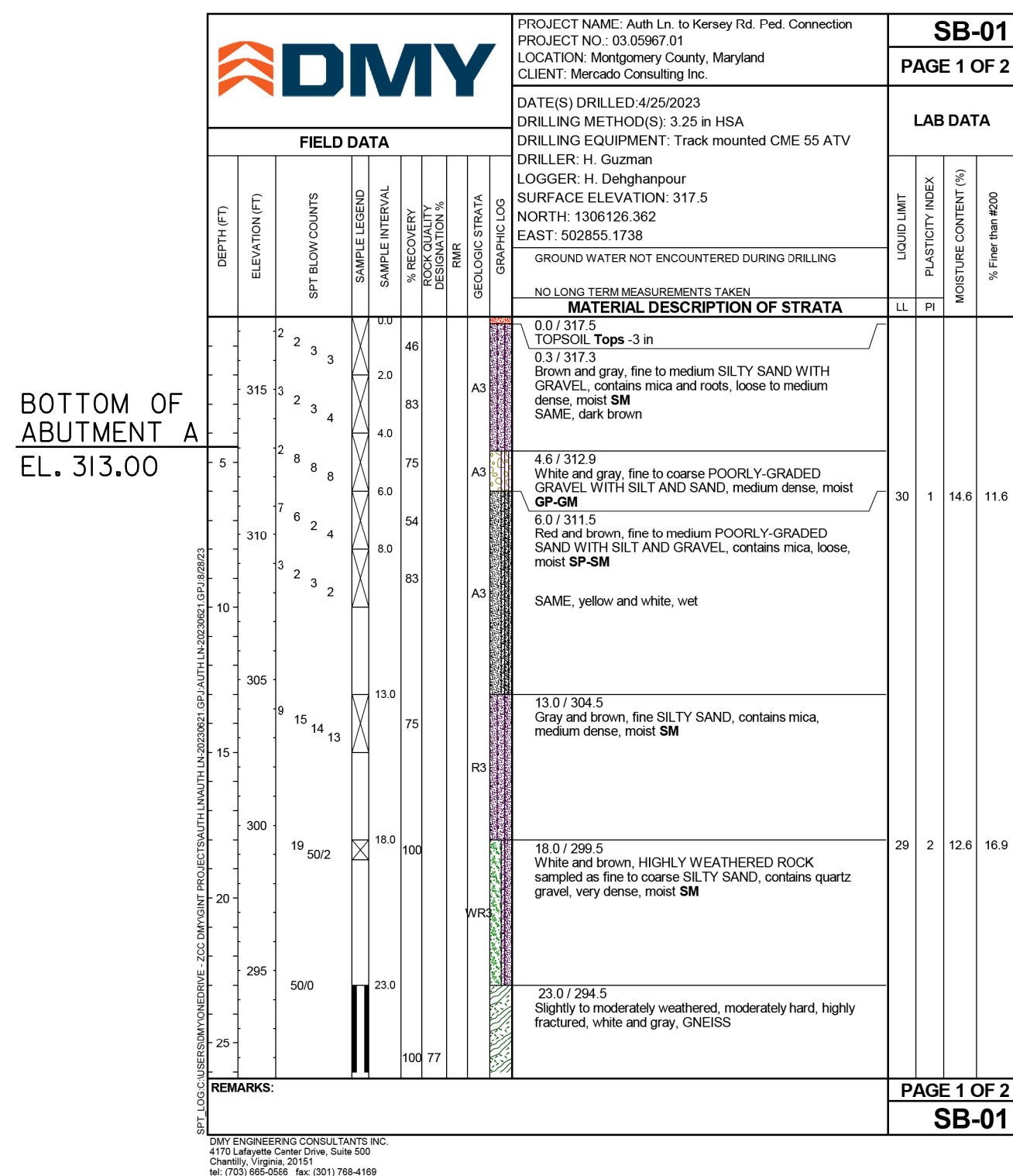
RIPRAP DETAIL-2
SCALE: 1/4" = 1'-0"



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
See Title Sheet Chief, Design Section	Date
APPROVED	
See Title Sheet Chief, Division of Transportation Engineering	Date
Designed by : <u>KW</u>	Drawn by : <u>NL</u> Checked by : <u>MM</u>

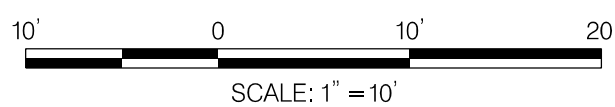
AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
PROPOSED RIPRAP PLAN	
SCALE : 3 / 16" = 1'-0" DATE : JULY, 2024	
Project No. : <u>0502505</u>	SHEET <u>9</u> of <u>18</u>



BORING AND DRIVE TESTS
NO SCALE

NOTES:

1. THE BORINGS AND DRIVE TESTS WERE TAKEN BETWEEN APRIL 25, 2023 AND MAY 1, 2023 BY DMY ENGINEERING CONSULTANTS, INC.
2. THE BORING LOG SOIL SYMBOLS REFLECT ONLY MAJOR CONSTITUENTS, FOR MORE COMPLETE SOIL CHARACTERISTICS, REFER TO SOIL DESCRIPTIVE TEXT.
3. N= BLOWS ON A 2 INCH OD SPLIT BARREL SAMPLING SPOON BY 140 LB. DRIVE-WEIGHT FALLING 30 INCHES INDICATING SUCCESSIVE 6 INCH INCREMENTS OF PENETRATION. IN LIEU OF BLOWS PER FOOT, PENETRATION LESS THAN 6 INCHES ARE INDICATED BY 50 BLOWS OVER THE NEAREST INCH.
4. BORINGS AND SAMPLINGS CONFORM TO AASHTO DESIGNATIONS T-206, T-225 AND T-306.
5. SOIL HAS BEEN CLASSIFIED VISUALLY BY THE DRILLER.
6. THE INFORMATION PROVIDED IN THE BORING LOGS IS TRUE AND ACCURATE SOLELY FOR THE SPECIFIC LOCATIONS FOR WHICH BORINGS WERE DRILLED AND SOIL PROPERTIES WERE ANALYZED. THE BORING LOGS ARE PRESENTED FOR INFORMATIONAL PURPOSES ONLY.



NO.	REVISION	DATE	B

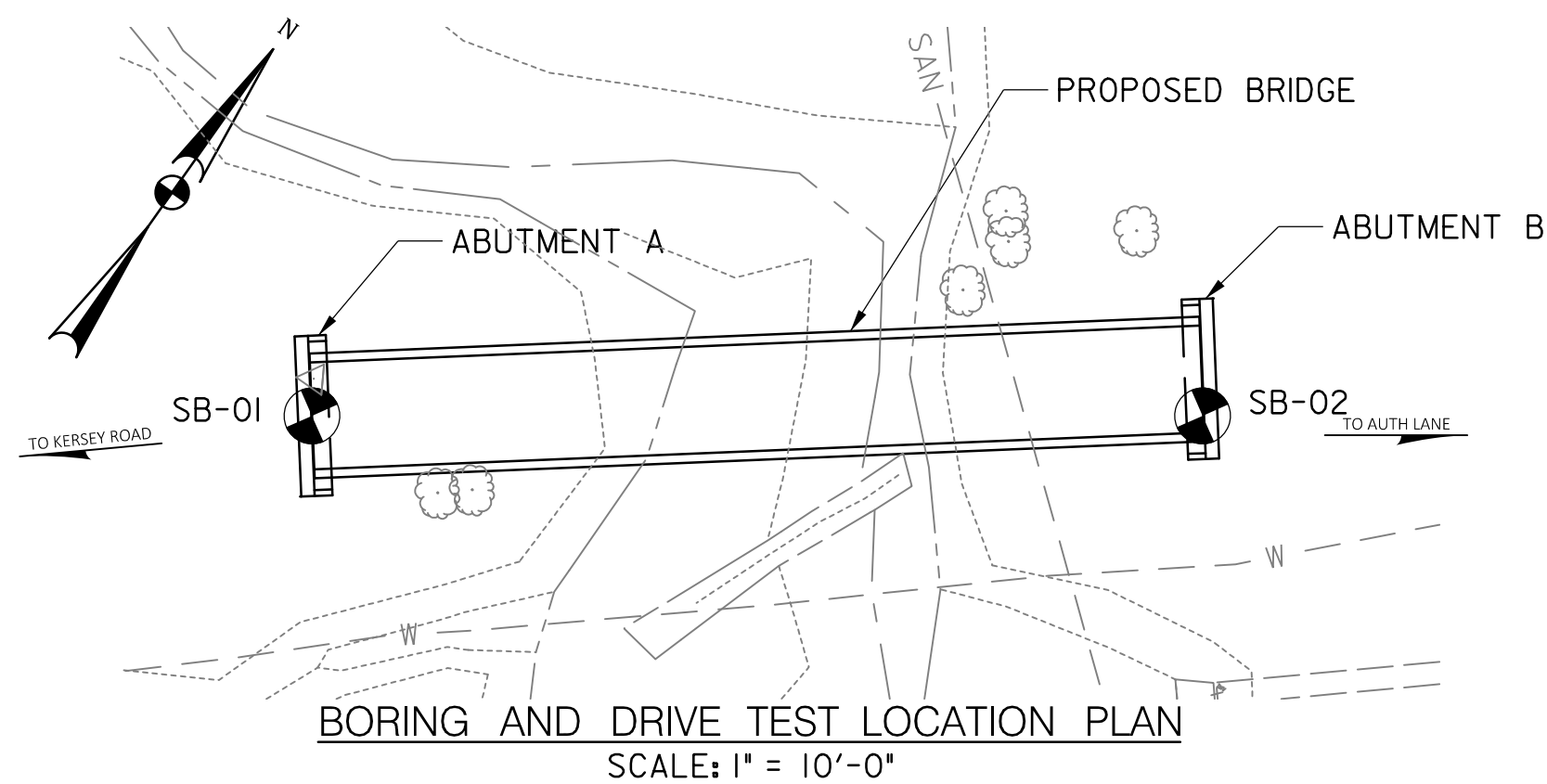
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <u>See Title Sheet</u> </div> <div style="width: 35%;"></div> </div>	
Chief, Design Section	Date
APPROVED	
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <u>See Title Sheet</u> </div> <div style="width: 35%;"></div> </div>	
Chief, Division of Transportation Engineering	Date
Designed by : <u>ZK</u> Drawn by : <u>ZK</u> Checked by : <u>MM</u>	

AUTH LANE TO KERSEY ROAD
PEDESTRIAN BRIDGE

BORINGS AND TEST DRIVES

SCALE : AS SHOWN DATE : JULY, 2024

Project No. : 0502505 SHEET 10 of 18



7/26/2024
P:\Projects\1908\1908.25 Auth Ln Ped Bridge\0 CAD\ESC\pES-0001_Auth Ln.dgn

EROSION AND SEDIMENT CONTROL - GENERAL NOTES

STANDARD EROSION AND SEDIMENT CONTROL NOTES

- THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE DEPARTMENT, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEM OR THEIR REPRESENTATIVE, THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT.
- THE PERMITTEE MUST OBTAIN INSPECTION AND APPROVAL BY DPS AT THE FOLLOWING POINTS:
 - AT THE REQUIRED PRE-CONSTRUCTION MEETING.
 - FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING ACTIVITY.
 - DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.
 - PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
 - PRIOR TO FINAL ACCEPTANCE.
- THE PERMITTEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE, SHALL HAVE THEM INSPECTED AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM THE DEPARTMENT.
- THE PERMITTEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.
- THE PERMITTEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION, ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DEPARTMENT. THE PERMITTEE IS RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ANY SEDIMENT CONTROL MEASURES WHICH HAVE BEEN DAMAGED OR REMOVED BY THE PERMITTEE OR ANY OTHER PERSON.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATELY. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
- THE PERMITTEE SHALL APPLY SOD, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
- PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS WITH REQUIRED SOIL AMENDMENTS AND TOPSOIL, USING SOD OR AN APPROVED PERMANENT SEED MIXTURE AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHEN THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.
- THE SITE PERMIT, WORK, MATERIALS, APPROVED SC/SM PLANS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MONTGOMERY COUNTY.
- SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER DOWN SLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
- PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 3 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.

- SEDIMENT CONTROL DEVICES SHALL BE REMOVED, WITH PERMISSION OF THE DEPARTMENT, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
- NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS OR ON RESIDENTIAL LOTS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NONMAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
- THE PERMITTEE SHALL INSTALL A SPLASH BLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET.
- FOR FINISHED GRADING, THE PERMITTEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS, WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL.
- SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING WHICH IS EXISTING OR UNDER CONSTRUCTION. NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.
- ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT.
- THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.
- ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.
- VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- SEDIMENT TRAP(S)/BASIN(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE POINT OF ONE-HALF (1/2) THE WET STORAGE DEPTH OF THE TRAP/BASIN (1/4 THE WET STORAGE DEPTH FOR ST-III) OR WHEN REQUIRED BY THE SEDIMENT CONTROL INSPECTOR.
- SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.
- ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THE TWO INCHES IN WIDTH AND FOUR INCHES IN HEIGHT, WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
- NO EXCAVATION IN THE AREAS OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK.
- OFF-SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.
- SEDIMENT TRAP/BASIN DEWATERING FOR CLEANOUT OR REPAIR MAY ONLY BE DONE WITH THE DPS INSPECTOR'S PERMISSION. THE INSPECTOR MUST APPROVE THE DEWATERING METHOD FOR EACH APPLICATION. THE FOLLOWING METHODS MAY BE CONSIDERED:
 - PUMP DISCHARGE MAY BE DIRECTED TO ANOTHER ON-SITE SEDIMENT TRAP OR BASIN, PROVIDED IT IS OF SUFFICIENT VOLUME AND THE PUMP INTAKE IS FLOATED TO PREVENT AGITATION OR SUCTION OF DEPOSITED SEDIMENTS; OR
 - THE PUMP INTAKE MAY UTILIZE A REMOVABLE PUMPING STATION AND MUST DISCHARGE INTO AN UNDISTURBED AREA THROUGH A NON-EROSIVE OUTLET; OR
 - THE PUMP INTAKE MAY BE FLOATED AND DISCHARGE INTO A DIRT BAG (12 OZ. NON-WOVEN FABRIC), OR APPROVED EQUIVALENT, LOCATED IN AN UNDISTURBED BUFFER AREA.

REMEMBER: DEWATERING OPERATION AND METHOD MUST HAVE PRIOR APPROVAL BY THE DPS INSPECTOR.

- THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ALL UTILITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.
- TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE "STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS".

VEGETATIVE STABILIZATION PERMANENT AND TEMPORARY SEEDING, SODDING AND MULCHING

I. SITE PREPARATION

PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A.) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, GRASSED WATERWAYS, SEDIMENT BASINS, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND (B.) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

II. SEEDBED PREPARATION AND SEEDING APPLICATION

THE TOP LAYER OF SOIL SHALL BE LOOSENEED, LIMED AND FERTILIZED BY RAKING, DISCING OR HARROWING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. SLOPES STEEPER THAN 3 TO 1 SHALL HAVE THE TOP 1-3 INCHES OF SOIL LOOSE AND FRIABLE BEFORE SEEDING.

APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL CULTIPACKER, SEEDER OR HYDROSEEDER ON A FIRM MOIST SEEDBED.

III. SOIL AMENDMENTS

LIME AND FERTILIZE ACCORDING TO SOIL TESTS. IN LIEU OF SOIL TEST APPLY THE FOLLOWING:

DOLOMITIC: 2 TONS PER ACRE OR 92 LBS./1000 (PERMANENT AND SODDING) SQ. FT.
LIMESTONE: 1 TON PER ACRE OR 46 LB./1000 SQ. FT. (TEMPORARY)
FERTILIZER: 10-10-10 OR EQUIVALENT AT 1000 LBS. PER ACRE OR 23 LBS. PER 1000 SQ. FT. (PERMANENT AND SODDING) 10-10-10 OR EQUIVALENT AT 600 LBS. PER ACRE OR 15 LBS./1000 SQ. FT. (TEMPORARY)

IV. SEDIMENT CONTROL PRACTICE SEEDING

SEED: ANNUAL RYEGRASS 40 LBS./ACRE OR 1.0 LBS./1000 SQ. FT.
DATE: 3/1 TO 5/15 AND 8/1 TO 10/15
SEED: FOXTAIL MILLET 30 LBS./ACRE OR 0.7 LBS./1000 SQ. FT.
DATE: 5/16 TO 7/31

V. TEMPORARY SEEDING: PER GROWING SEASON

SEED: ANNUAL RYEGRASS 40 LBS./ACRE OR 1.0 LBS./1000 SQ. FT.
DATE: 3/1 TO 5/15 AND 8/1 TO 10/15
SEED: FOXTAIL MILLET 30 LBS./ACRE OR 0.7 LBS./1000 SQ. FT.
DATE: 5/16 TO 7/31

VI. PERMANENT SEEDING

SEED: TALL FESCUE 60 LBS./ACRE OR 1.38 LBS./1000 SQ. FT. AND KENTUCKY BLUEGRASS 40 LBS./ ACRE OR 0.92 LBS./1000 SQ. FT.
DATE: 3/1 TO 10/15 IRRIGATION REQUIRED

VII. MULCHING

ALL SEEDINGS REQUIRE MULCHING. USE MULCH ONLY DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE.

MULCH SHALL BE UNROTTED, UNCHOPPED SMALL GRAIN STRAW APPLIED AT A RATE OF 1½ TO 2 TONS/ACRE OR 70-90 LBS./1000 SQ. FT. (2 BALES). MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDBEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY MECHANICALLY OR BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOLL, PEG AND TWINE, OR LIQUID MULCH BINDERS.

LIQUID MULCH BINDER SHALL BE RAPID CURING APPLIED AT A RATE OF 200 GAL./ACRE OR 5 GAL./1000 SQ. FT. SLOPES 8 FT. OR MORE HIGH USE 348 GAL./ACRE OR 8 GAL./1000 SQ. FT.

VIII. SODDING

CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR WITH STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTING AND NOT OVER LAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED WITHIN 8 HOURS OF INSTALLATION, DAILY WATERING TO MAINTAIN 4 INCH DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN GROUND.

IX. MAINTENANCE

- IRRIGATION: WHEN SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF PROTECTIVE VEGETATION.
- REPAIRS: IF STAND IS INADEQUATE FOR EROSION CONTROL, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND IS OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL RATES AND PROCEDURES.

NOTES: USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL THE REQUIREMENTS OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL VEGETATIVE PRACTICES.

SC0002



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
See Title Sheet Chief, Design Section APPROVED	Date
See Title Sheet Chief, Division of Transportation Engineering	Date
Designed by : <u>MM</u>	Drawn by : <u>NL</u> Checked by : <u>MM</u>

AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
EROSION AND SEDIMENT CONTROL NOTES	
SCALE : NONE	DATE : JULY, 2024
Project No. : <u>0502505</u>	SHEET <u>11</u> of <u>18</u>

EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION

1. PRIOR TO CLEARING TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRECONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (MCDPS) SEDIMENT CONTROL INSPECTOR (240) 777-0311 (48 HOURS NOTICE) AND THE MNCPPC, PLANNING DEPARTMENT, PLANS ENFORCEMENT INSPECTOR (301) 495-4550 (48 HOURS NOTICE), THE OWNERS REPRESENTATIVE, AND THE SITE ENGINEER. IN ORDER FOR THE MEETING TO OCCUR, THE APPLICANT MUST PROVIDE ONE PAPER SET OF APPROVED SEDIMENT CONTROL PLANS TO MCDPS SEDIMENT CONTROL INSPECTOR AT THE PRECONSTRUCTION MEETING. IF NO PLANS ARE PROVIDED, THE MEETING SHALL NOT OCCUR AND WILL NEED TO BE RESCHEDULED PRIOR TO COMMENCING ANY WORK.
2. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.
3. THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MNCPPC INSPECTOR, CERTIFYING THAT THE LIMITS OF DISTURBANCE AND TREE PROTECTION MEASURES ARE CORRECTLY MARKED AND INSTALLED PRIOR TO COMMENCING ANY CLEARING.
4. CLEAR AND GRADE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES.
5. INSTALL SEDIMENT CONTROL DEVICES. TRAPS AND BASINS SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTION OF ANY EARTH DIKES THAT CONVEY DRAINAGE TO A TRAP AND/OR BASIN.
6. ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MCDPS INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING OR GRADING.
7. ESTABLISH STREAM DIVERSION. PLACE TEMPORARY SAND BAG DIVERSION DIKES AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE PROPOSED BRIDGE LOCATION. INSTALL PUMP AROUND PRACTICE.
8. CONSTRUCT CAST-IN-PLACE FOOTINGS, ABUTMENTS, AND BACK WALL.
9. INSTALL CLASS II RIPRAP.
10. INSTALL FRP PEDESTRIAN BRIDGE.
11. REFORM AND STABILIZE ALL DISTURBED AREAS AT THE END OF EACH DAY.
12. ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CONSTRUCTION AREA IS STABILIZED INCLUDING VEGETATIVE ESTABLISHMENT. UPON STABILIZATION OF THE SITE AND WITH WRITTEN APPROVAL FROM THE MCDPS INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THE DEVICES.

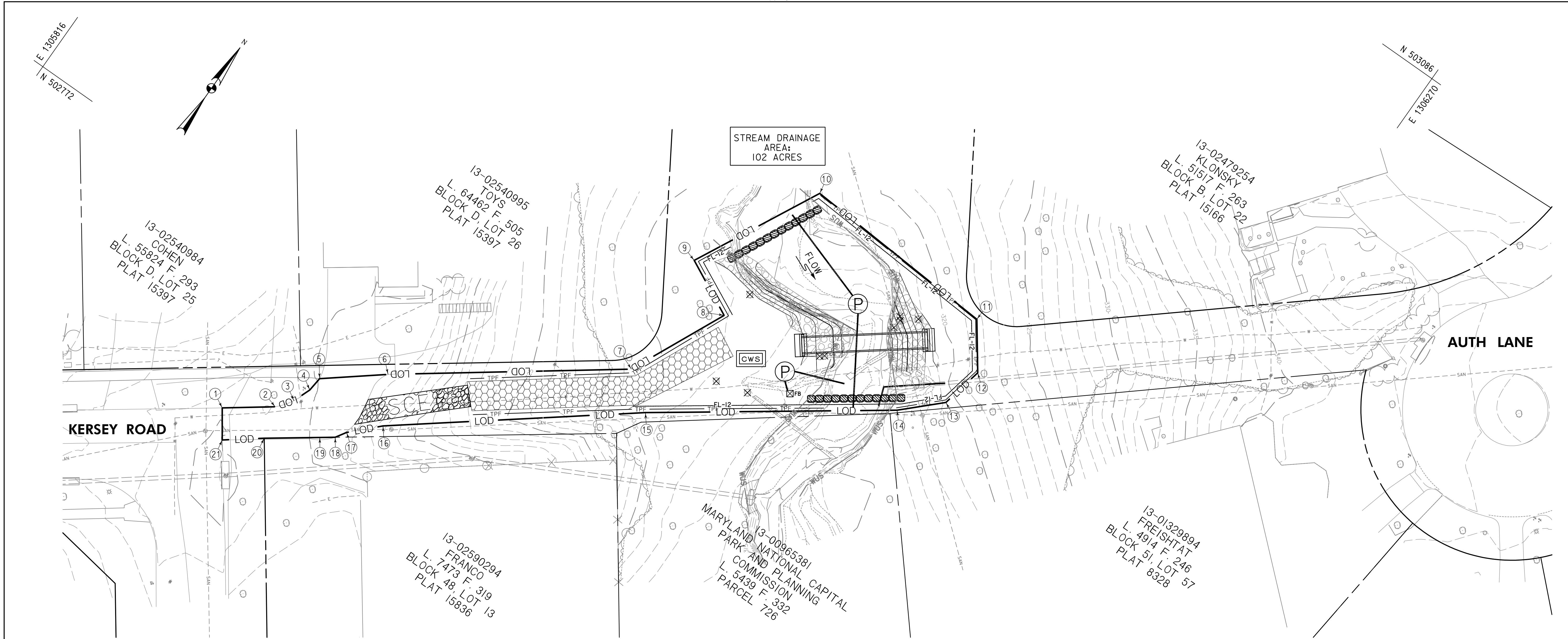
SC0003



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		
RECOMMENDED FOR APPROVAL		
See Title Sheet Chief, Design Section		Date
APPROVED		
See Title Sheet Chief, Division of Transportation Engineering		Date
Designed by : <u> KW </u> Drawn by : <u> KW </u> Checked by : <u> MM </u>		

AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION	
SCALE : NONE	DATE : JULY, 2024
Project No. : <u> 0502505 </u>	SHEET <u> 12 </u> of <u> 18 </u>

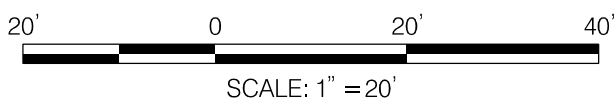


PLAN
SCALE: 1" = 20'

LEGEND:

- LOD — LIMITS OF DISTURBANCE
- SANDBAG
- PUMP
- FB FILTER BAG
- FL-12 FILTER LOG
- SCE STABILIZED CONSTRUCTION ENTRANCE
- TREE REMOVAL
- MODIFIED LIGHT DUTY MULCH MAT
- TPF — TPF TREE PROTECTION FENCE
- CWS CONCRETE WASHOUT STRUCTURE

LIMIT OF DISTURBANCE		
NO	NORTHING	EASTING
1	502702.1691	1305952.3732
2	502714.6486	1305969.3084
3	502720.9140	1305974.0000
4	502728.0316	1305976.7045
5	502733.9429	1305977.3046
6	502751.0200	1305998.5705
7	502808.4171	1306076.4299
8	502847.1032	1306094.2562
9	502858.1164	1306071.9371
10	502908.6169	1306097.3862
11	502903.6589	1306177.2303
12	502886.4862	1306189.7738
13	502869.5565	1306186.2446
14	502855.8631	1306172.1237
15	502797.4933	1306090.9417
16	502733.0976	1306008.7207
17	502722.6767	1305998.4116
18	502718.4962	1305995.8045
19	502714.8894	1305990.8296
20	502701.9362	1305972.9633
21	502691.7492	1305959.7223



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
See Title Sheet Chief, Design Section	Date
APPROVED	
See Title Sheet Chief, Division of Transportation Engineering	Date
Designed by : MR	Drawn by : MR
Checked by : MM	

AUTH LANE TO KERSEY ROAD
PEDESTRIAN BRIDGE
EROSION AND SEDIMENT CONTROL
PLAN

SCALE : 1" = 20' DATE : JULY, 2024

Project No. : 0502505 SHEET 13 of 18

SC0004

SAND BAG DIVERSION DIKE

I. DESCRIPTION

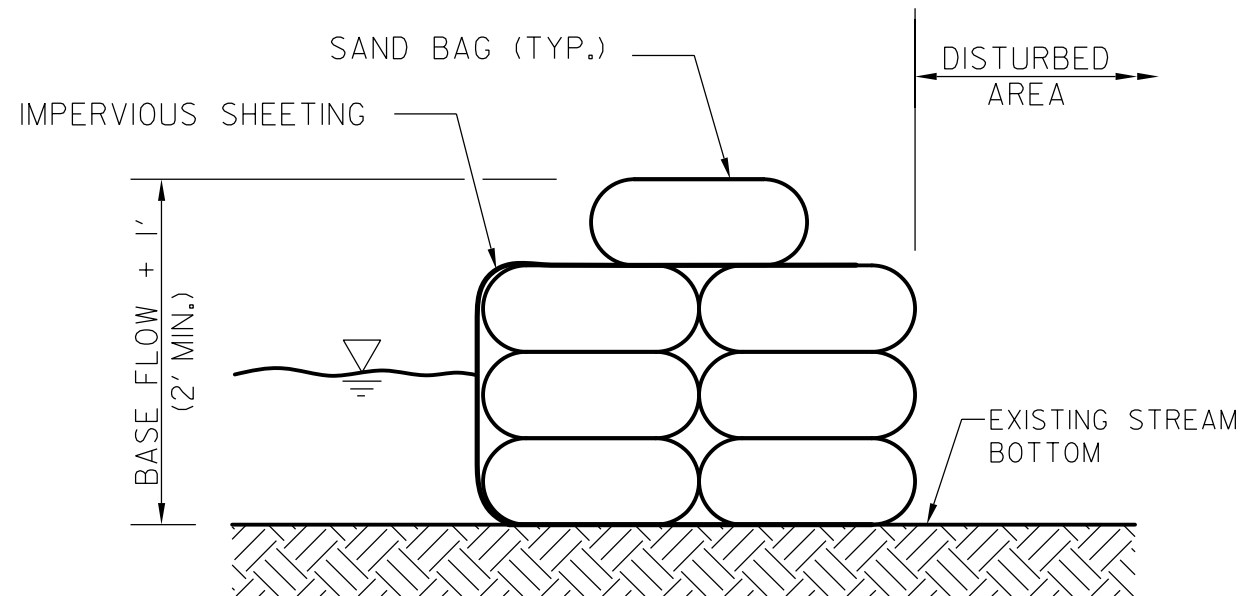
THE WORK SHALL CONSIST OF INSTALLING FLOW DIVERSIONS FOR THE PURPOSE OF EROSION CONTROL WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL.

II. MATERIAL SPECIFICATIONS

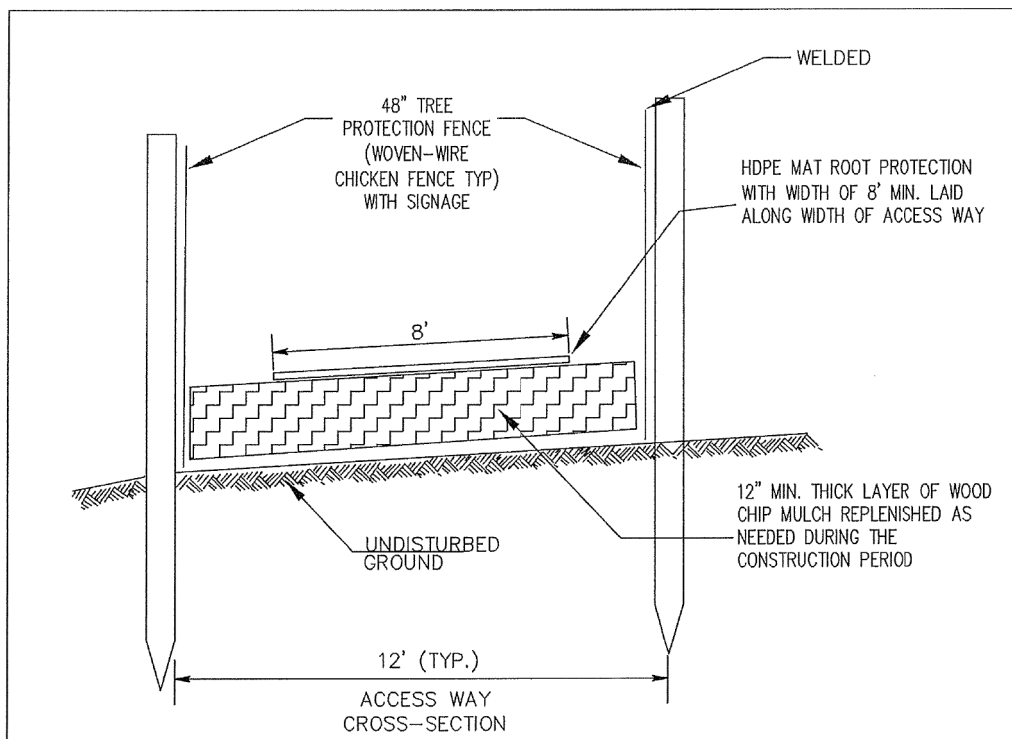
- SAND BAGS: SAND BAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRA-VIOLET RADIATION, TEARING, AND PUNCTURE AND SHALL BE WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL (I.E., SAND, FINE GRAVEL, ETC.).
- SHEETING: SHEETING SHALL CONSIST OF POLYETHYLENE OR OTHER MATERIAL WHICH IS IMPERVIOUS AND RESISTANT TO PUNCTURE AND TEARING.

III. CONSTRUCTION REQUIREMENTS

- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS A FIRST ORDER OF WORK.
- THE DIVERSION STRUCTURE SHALL BE INSTALLED FROM UPSTREAM TO DOWNSTREAM.
- THE HEIGHT OF THE DIVERSION STRUCTURE SHALL BE AS SHOWN ON THESE PLANS. BASE FLOW IS DEFINED AS THE WATER DEPTH A MINIMUM OF 48 HOURS AFTER A RAIN EVENT.
- ALL EXCAVATED MATERIALS SHALL BE DISPOSED AND STABILIZED IN AN APPROVED AREA OUTSIDE THE 100 YEAR FLOODPLAIN UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER AND THE MDE FIELD INSPECTOR.
- SEDIMENT LADEN WATER FROM THE CONSTRUCTION AREA SHALL BE PUMPED TO THE SEDIMENT BAG.
- SHEETING ON THE DIVERSION SHALL BE POSITIONED SUCH THAT THE UPSTREAM PORTION COVERS THE DOWNSTREAM PORTION WITH AT LEAST A 18 INCH OVERLAP.
- PRIOR TO THE REMOVAL OF THESE TEMPORARY STRUCTURES, ANY ACCUMULATED SEDIMENT SHALL BE REMOVED, DEPOSITED AND STABILIZED IN AN APPROVED AREA OUTSIDE THE 100 YEAR FLOODPLAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND SEDIMENT CONTROL INSPECTOR.
- SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH AN EROSION AND SEDIMENT CONTROL PLAN AND THE INSPECTION AUTHORITY APPROVES THEIR REMOVAL.

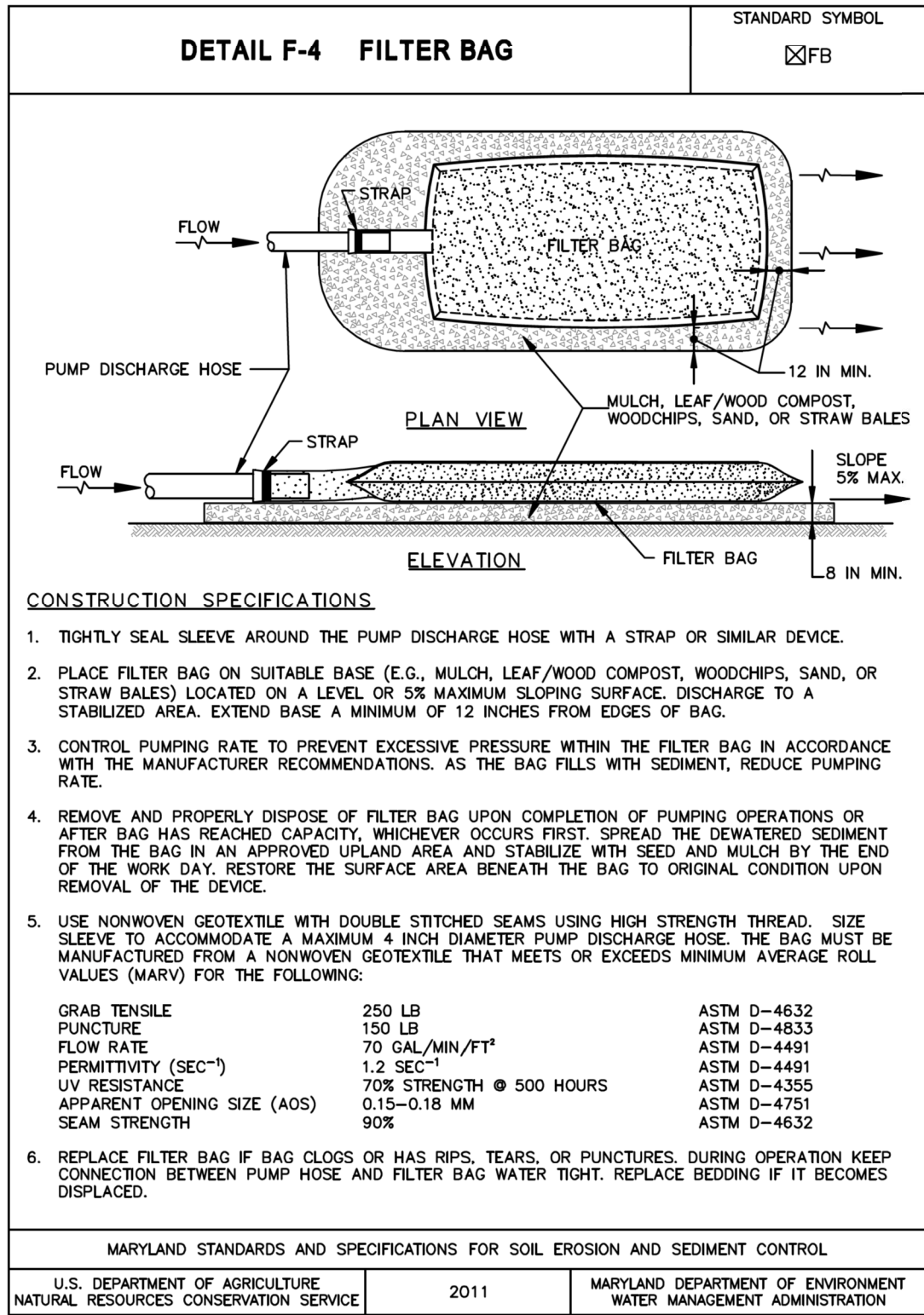
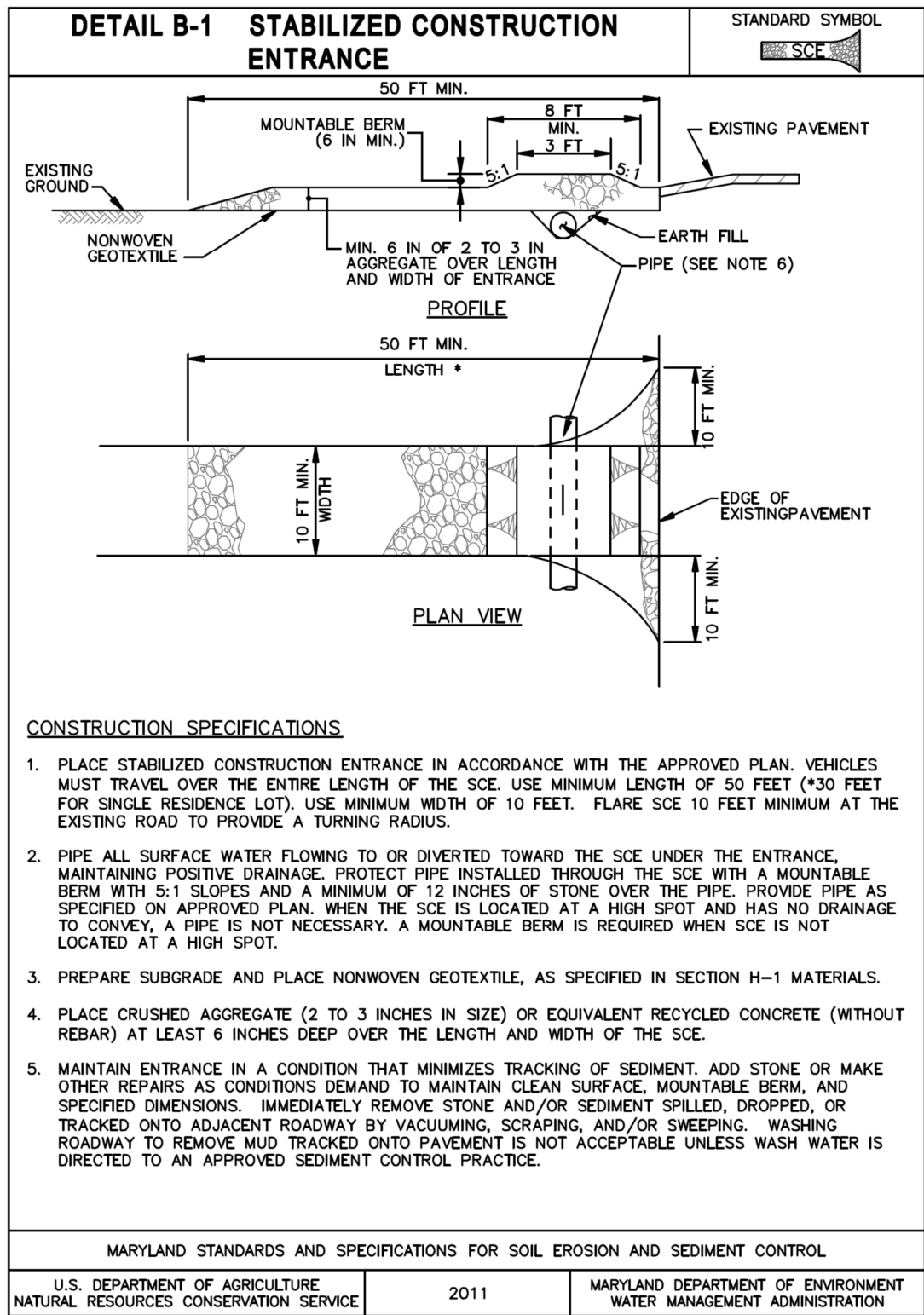


SAND BAG DIVERSION DIKE DETAILS
SCALE: NTS

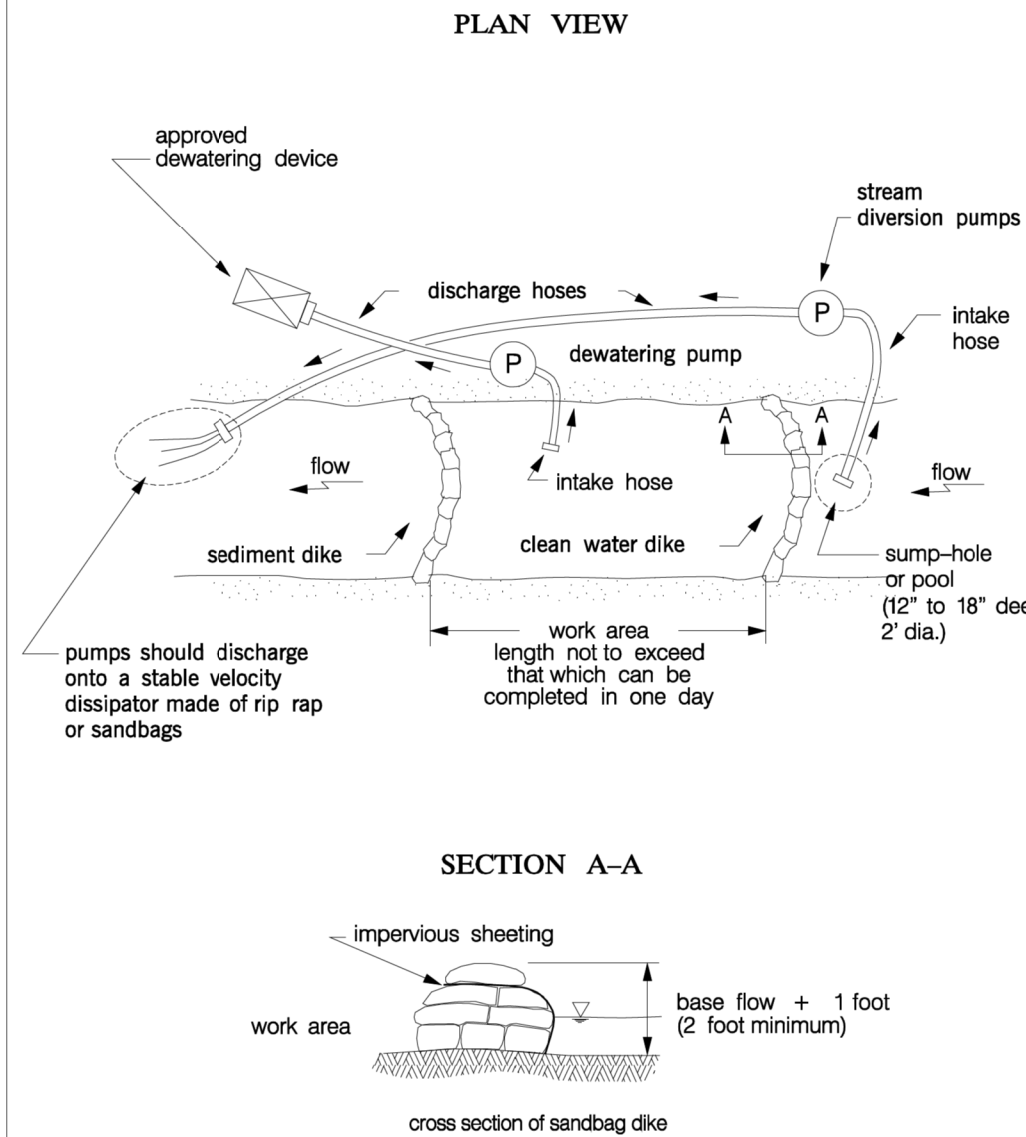


- NOTES:
- ACCESS ROUTES TO BE FIELD LOCATED WITH M-NCPPC AND MCDPS INSPECTORS AT PRE-CONSTRUCTION MEETING.
 - CONTRACTOR SHALL SEQUENCE CONSTRUCTION SUCH THAT NO EQUIPMENT WILL IMPACT AREAS TO BE PROTECTED PRIOR TO MULCH PLACEMENT.
 - CONTRACTOR SHALL MAINTAIN MULCH MAT THROUGHOUT CONSTRUCTION PERIOD.
 - CONTRACTOR SHALL LAY ALTERNAMATS OR APPROVED EQUAL OVER MULCH MAT TO PROVIDE GROUND COVER PROTECTION ALONG THE WIDTH OF THE ACCESS WAY USING A MINIMUM 8-FT WIDE SEMI-RIGID MAT FOR IMPACT PROTECTION AND MINOR WEIGHT DISTRIBUTION.
 - MULCH SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE APPROVED BY M-NCPPC. WHERE MULCH IS TO REMAIN, FILTER FABRIC SHALL BE AN APPROVED BIODEGRADABLE TYPE.

MODIFIED LIGHT DUTY MULCH MAT DETAIL
NOT TO SCALE



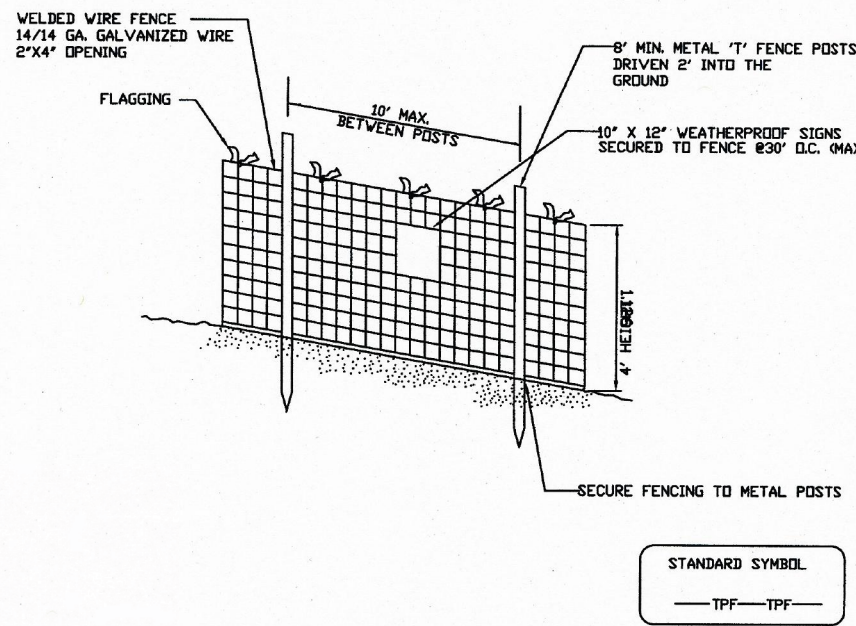
Maryland's Guidelines To Waterway Construction DETAIL 1.2: PUMP-AROUND PRACTICE



TEMPORARY INSTREAM CONSTRUCTION MEASURES	REVISED NOVEMBER 2000 PAGE 1.2 - 5	MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------------------------------------	--

Tree Protection Fence Detail

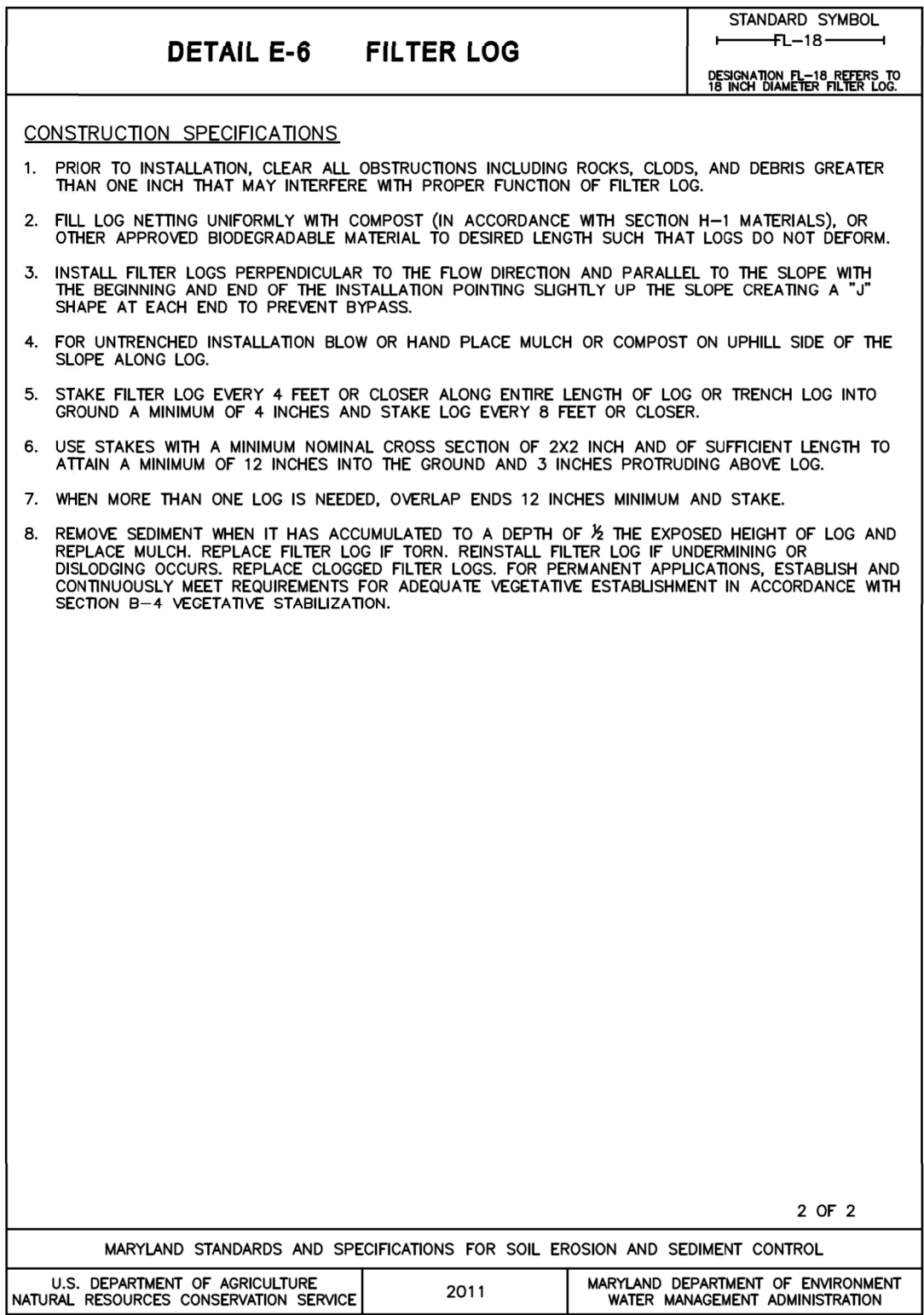
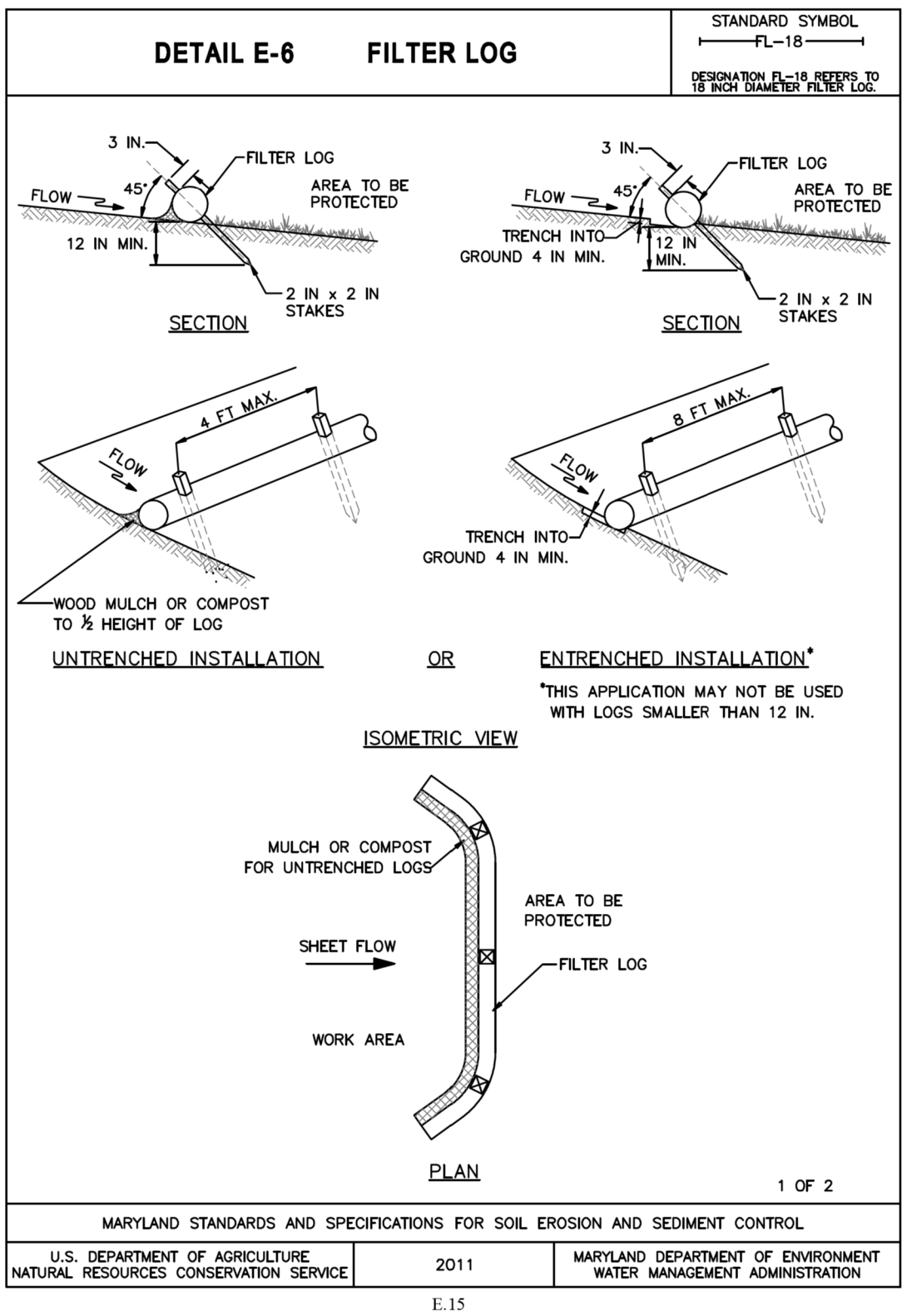
Not to scale



NOTES

- Practice may be combined with sediment control fencing.
- Location and limits of fencing should be coordinated in field with arborist.
- Boundaries of protection area should be staked prior to installing protective device.
- Root damage should be avoided.
- Protection signage is required.
- Fencing shall be maintained throughout construction.

Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org



SC0005

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

See Title Sheet

Chief, Design Section

APPROVED

See Title Sheet

Chief, Division of Transportation Engineering

Designed by : ZK

Drawn by : NL

Checked by : MM

AUTH LANE TO KERSEY ROAD
PEDESTRIAN BRIDGE

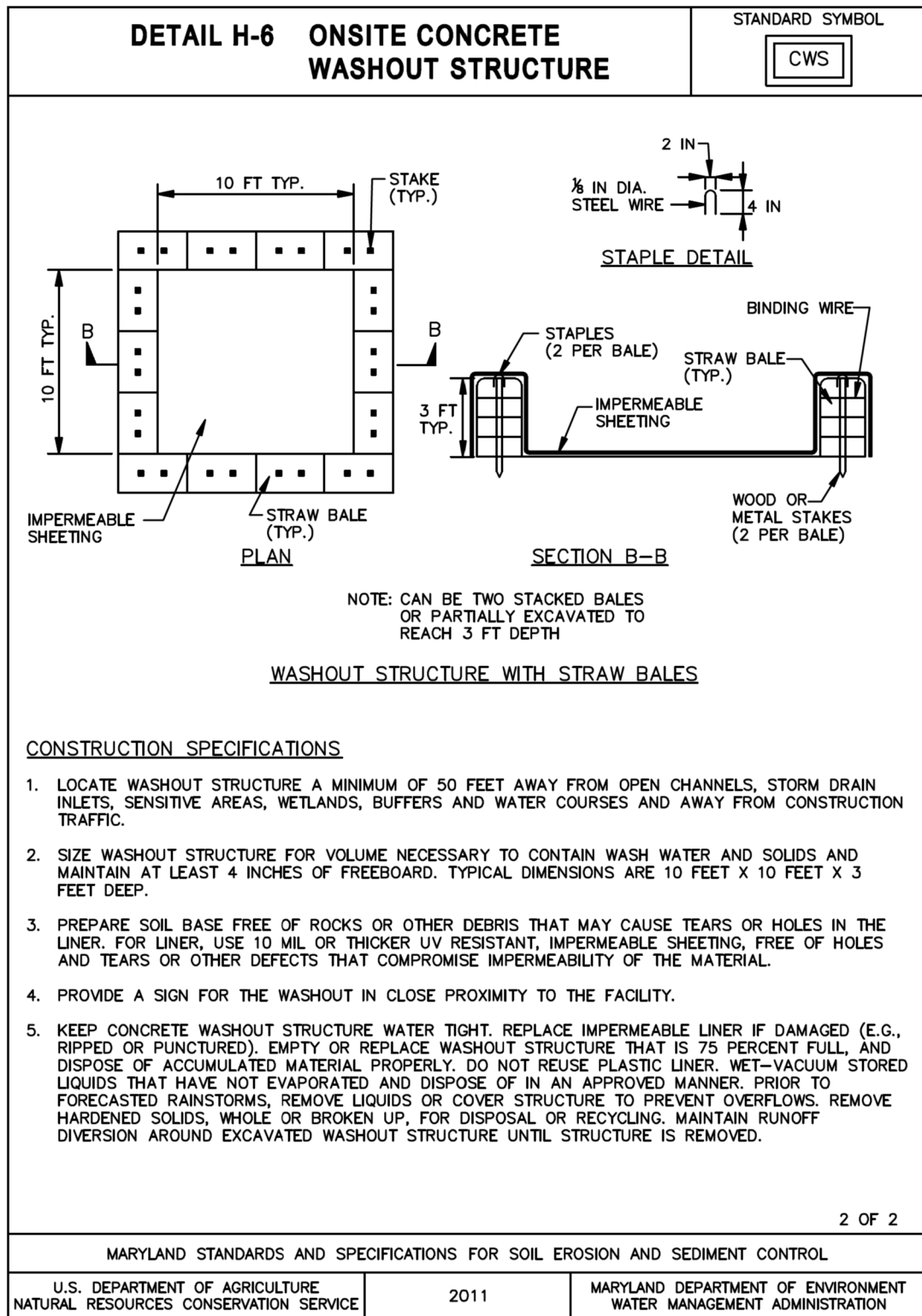
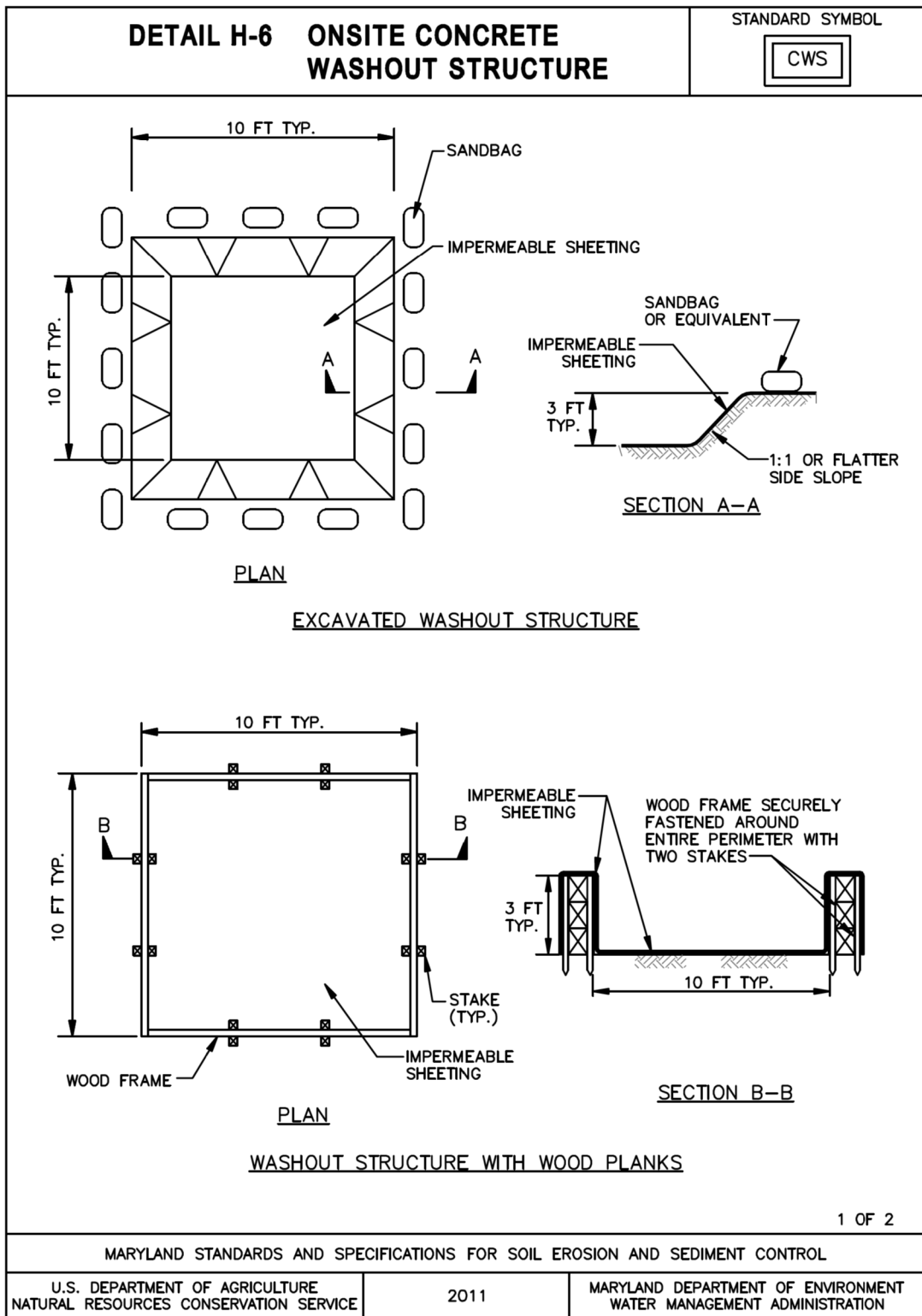
EROSION AND SEDIMENT CONTROL
STANDARD DETAILS - 1

SCALE : NONE

DATE : JULY, 2024

Project No. : 0502505

SHEET 14 of 18



CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. NET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

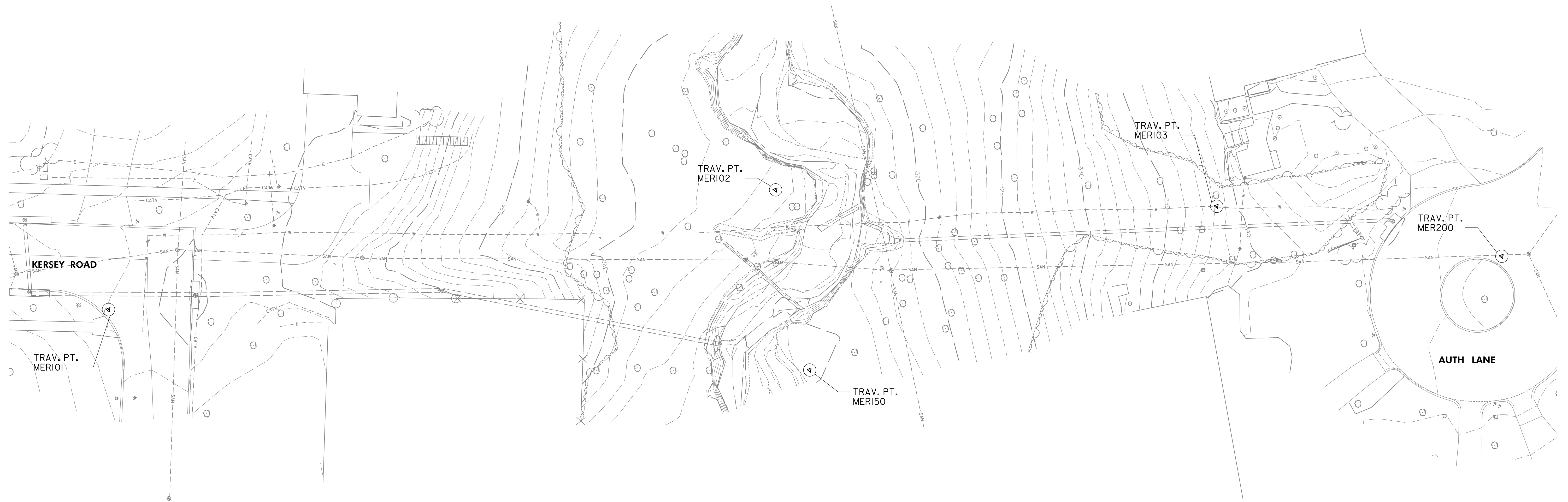
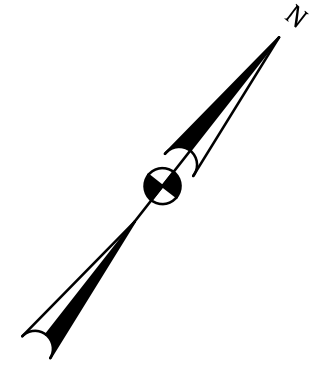
SC0006



NO.	REVISION	DATE	BY

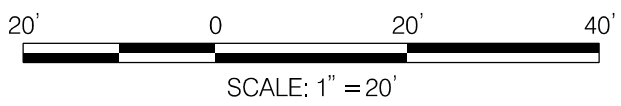
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
See Title Sheet Chief, Design Section APPROVED	Date
See Title Sheet Chief, Division of Transportation Engineering	Date
Designed by : ZK	Drawn by : NL Checked by : MM

AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
EROSION AND SEDIMENT CONTROL STANDARD DETAILS - 2	
SCALE : NONE	DATE : JULY, 2024
Project No. : 0502505	SHEET 15 of 18



PLAN
SCALE: 1" = 20'

SURVEY TRAVERSE			
PT.	NORTHING	EASTING	ELEVATION
MER101	502655.0653	1305945.1733	335.99
MER102	502856.9234	1306125.2593	317.51
MER103	502960.3494	1306267.8983	338.31
MER150	502808.6901	1306180.3439	314.61
MER200	503014.8108	1306369.7576	341.79

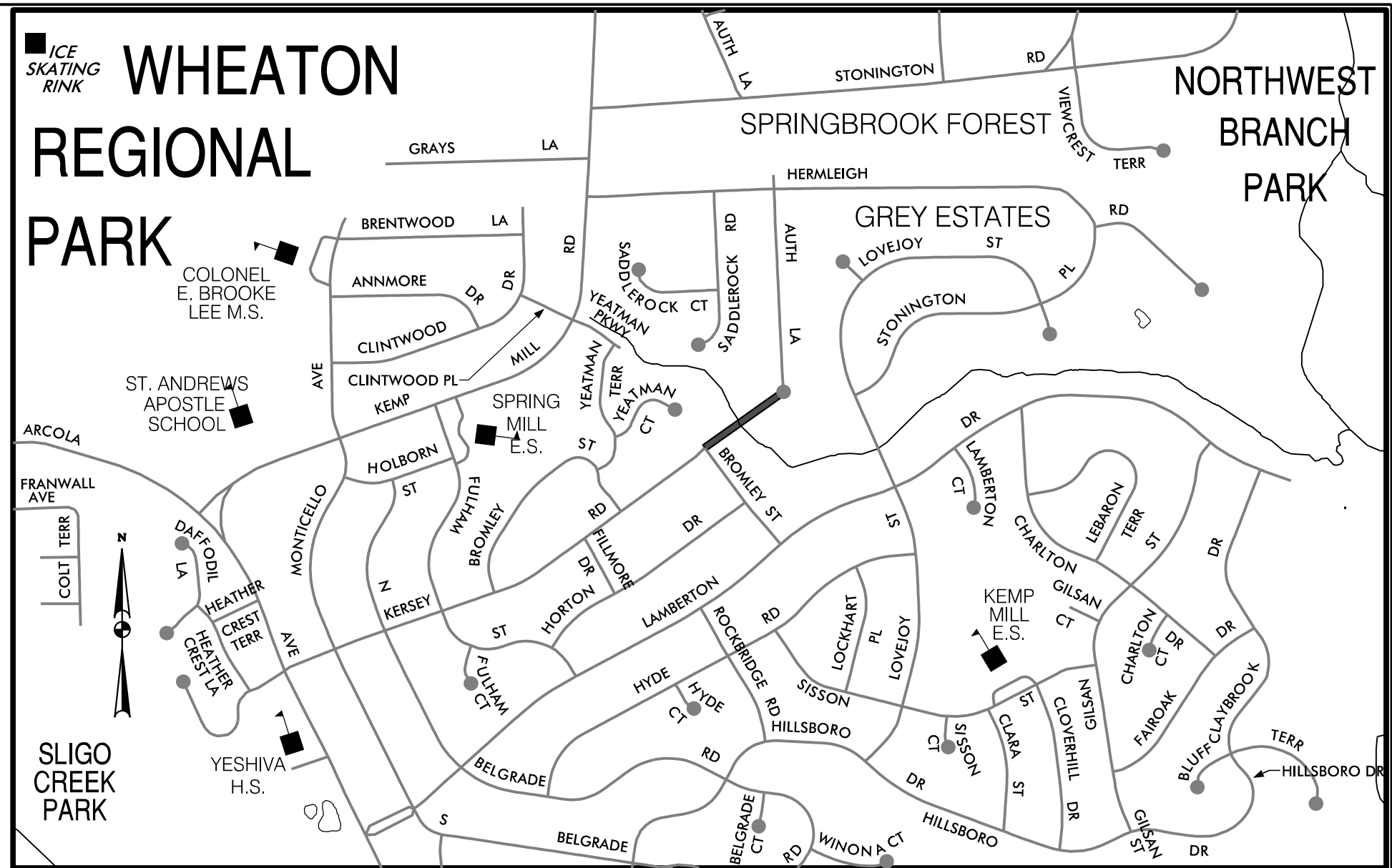


NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
See Title Sheet Chief, Design Section	Date
APPROVED	
See Title Sheet Chief, Division of Transportation Engineering	Date
Designed by : <u> KW </u>	Drawn by : <u> NL </u> Checked by : <u> MM </u>

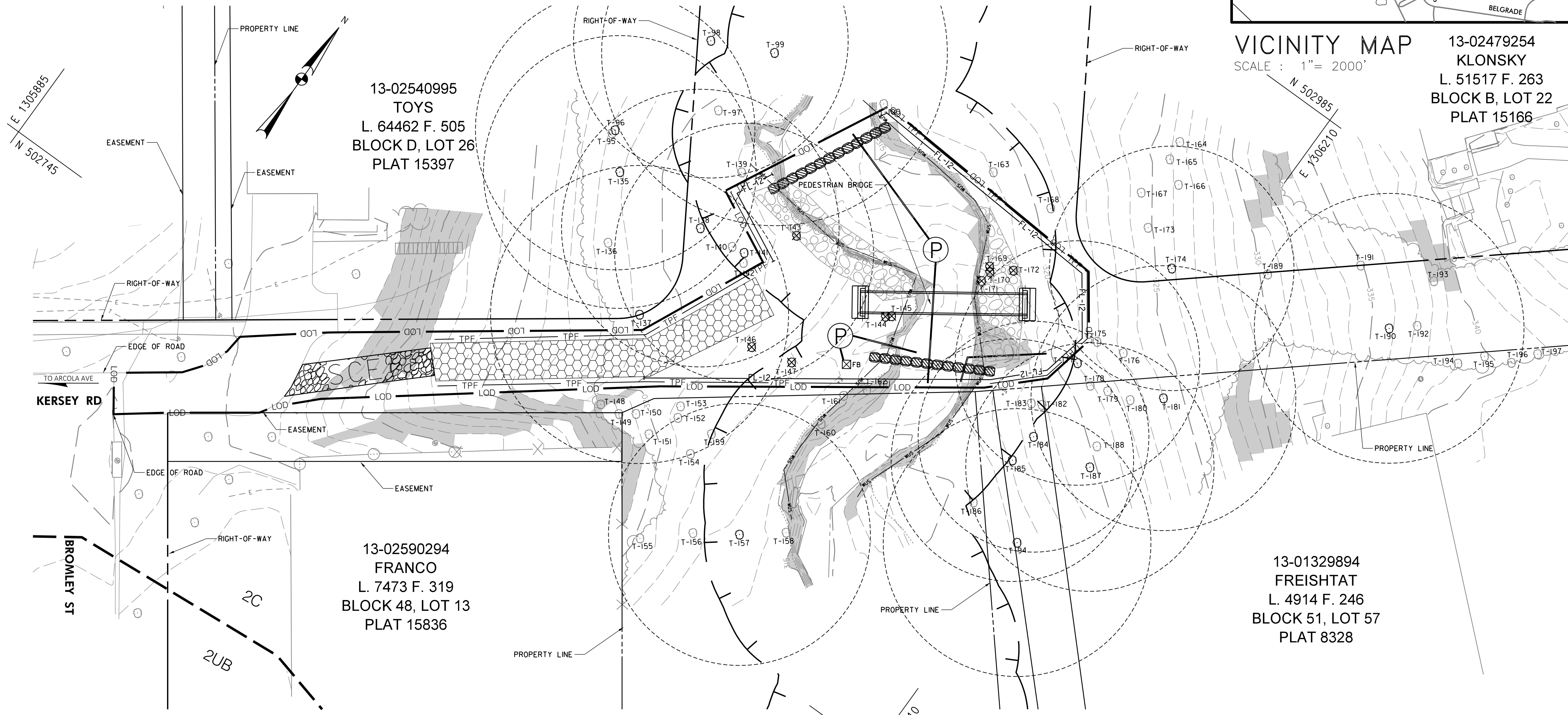
AUTH LANE TO KERSEY ROAD PEDESTRIAN BRIDGE	
SURVEY DATA	
SCALE : 1" = 20'	DATE : JULY, 2024
Project No. : <u> 0502505 </u>	SHEET <u> 16 </u> of <u> 18 </u>

7/26/2024
P:\Projects\1908\1908.29 Auth Ln Ped Bridge\10 CADD\Structures\DBR-GLOI_Auth.dgn



VICINITY MAP
SCALE : 1" = 2000'
13-02479254
KLONSKY
L. 51517 F. 263
BLOCK B, LOT 22
PLAT 15166

MONTGOMERY COUNTY
LENGTH OF PROJECT:
0.75 MILES



- LEGEND:**
- 100-YR FLOODPLAIN
 - LIMITS OF DISTURBANCE
 - FILTER LOG
 - FILTER BAG
 - SANDBAG
 - PUMP
 - WATERS OF THE US
 - TREE PROTECTION FENCE
 - CONCRETE WASHOUT STRUCTURE
 - SLOPE 25% OR GREATER
 - SOIL CONTOUR
 - TREE REMOVAL
 - CRITICAL ROOTS ZONE
 - MODIFIED LIGHT DUTY MULCH MAT

PLAN
SCALE: 1" = 20'

SCALE: 1" = 20'



NO.	REVISION	DATE	BY

OWNER/PERMIT APPLICANT INFORMATION

NAME: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
ADDRESS: 100 EDISON PARK DRIVE 4th FLOOR, GAITHERSBURG, MD 20878
PHONE NUMBER: (240) 777-7207
CONTACT PERSON: RASHID ABRAMOV, P.E.

Manuel Alvarenga

MANUEL ALVARENGA
DNR QUALIFIED PROFESSIONAL

11 / 2023
DATE

ADDRESS: 17830 NEW HAMPSHIRE AVENUE
PHONE: 240-722-6313
MALVARENGA@MERCADOENG.COM

AUTH LANE TO KERSEY ROAD
PEDESTRIAN CONNECTION
42024099E

ELECTION DISTRICT 13
MONTGOMERY COUNTY, MD
2500FT NORTHEAST OF ARCOLA AVE

SCALE : AS SHOWN DATE : NOVEMBER, 2023

Project No. : 502505 SHEET 17 of 18

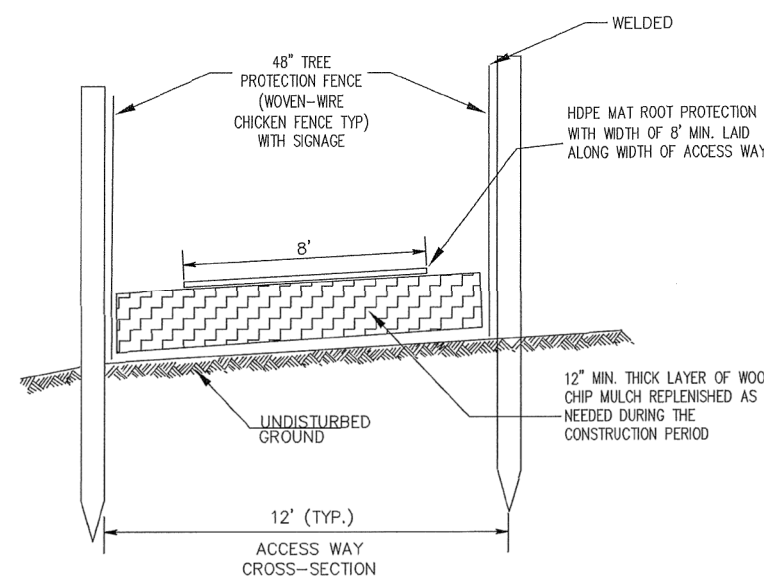


MONTGOMERY PLANNING DEPARTMENT

APPROVED - 42024099E

Halley Johnson

03/14/24

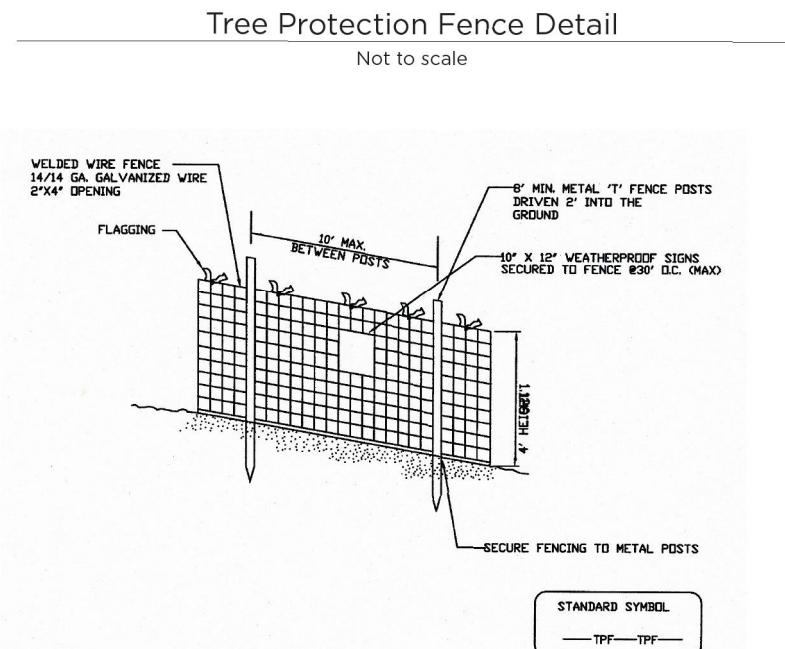


NOTES:

1. ACCESS ROUTES TO BE FIELD LOCATED WITH M-NCPMP AND MCDPS INSPECTORS AT PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL PROVIDE CONSTRUCTION SUCH THAT NO EQUIPMENT WILL IMPACT AREAS TO BE PROTECTED PRIOR TO MULCH PLACEMENT.
3. CONTRACTOR SHALL MAINTAIN MULCH MAT TIGHT AGAINST CONSTRUCTION EQUIPMENT.
4. CONTRACTOR SHALL LAY ALTERNAMATS OR APPROVED EQUAL OVER MULCH MAT TO PROVIDE GROUND COVER PROTECTION ALONG THE WIDTH OF THE MULCH MAT. CONSTRUCTION SHALL BE LIMITED TO SEMI-RIGID MAT FOR IMPACT PROTECTION AND MINOR WEIGHT DISTRIBUTION.
5. MULCH SHALL BE DISPOSED OF OFF-SITE UNLESS IT IS PROTECTED BY A-M-NCPMP. WHERE MULCH IS REMAIN, FILTER FABRIC SHALL BE APPLIED TO PROVIDE BIODEGRADABLE TYPE.

MODIFIED LIGHT DUTY MULCH MAT DETAIL

NOT TO SCALE



NOTES

1. Practice may be combined with sediment control fencing.
2. Location and limits of fencing should be coordinated in field with arborist.
3. Boundaries of protection area should be staked prior to installing protective device.
4. Root damage should be avoided.
5. Protection signage is required.
6. Fencing shall be maintained throughout construction.

Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org

RESOURCE DATA TABLE

Type	Acreage
Forest	0.09
Wetland	0
Forest in Wetlands	0
Floodplain	0.08
Forest in Floodplain	0.08
Stream Buffer	0.1
Forest in Stream Buffer	0.09

NOTE:

- | | |
|--|---|
| 1. PROPOSED AREA OF FOREST
TO BE DISTURB IS 0.09 ACRES | 8. THERE ARE NO HISTORIC SITES WITHIN THE
PROJECT TRACT |
| 2. WATERSHED: ANACOSTIA RIVER | 9. NATIONAL, STATE, OR COUNTY CHAMPION TREES:
NONE |
| 3. MARYLAND STREAM USE CLASS: IV | 10. TREES THAT ARE AT LEAST 75 PERCENT OF THE
CURRENT STATE CHAMPION: NONE |
| 4. SPECIAL PROTECTION AREA OR PATUXENT
RIVER PRIMARY MANAGEMENT AREA: N/A | 11. METHOD AND TOOL USED TO MEASURE DIAMETER
OF TREES FORESTRY: DIAMETER TAPE AT DBH OF
TREE |
| 5. SOURCE OF 100-YEAR FLOODPLAIN:
GENERATED | 12. CONDUCTING FIELD WORK: MANUEL ALVARENGA DNR
QUALIFIED PROFESSIONAL |
| 6. WETLAND INFORMATION SOURCE: N/A. | 13. FIELD WORK CONDUCTED: NOVEMBER 3, 2022 (FIELD
& NOVEMBER 15, 2022 (TREE SURVEY) |
| 7. FEDERAL OR MARYLAND RARE, THREATENED,
OR ENDANGERED SPECIES: NONE | 14. PROJECT OCCURS WITHIN MONTGOMERY COUNTY
RIGHT-OF-WAY AND THE TOTAL AREA WITHIN THE
LIMIT OF DISTURBANCE IS 10,474 SF. THIS PROJECT
IS SUBMITTED UNDER SECTION 22A-5 EXEMPTION
CATEGORY E. |



NO.	REVISION	DATE	BY	<p align="center">OWNER/PERMIT APPLICANT INFORMATION</p> <p>NAME: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ADDRESS: 100 EDISON PARK DRIVE 4th FLOOR, GAITHERSBURG, MD 20878 PHONE NUMBER: (240) 777-7207 CONTACT PERSON: RASHID ABRAMOV, P.E.</p>

Specimen Trees	
Trees to Remove	

Tree #	Common name	Scientific name	dbh	Condition	Notes
135	Tulip poplar	Liriodendron tulipifera	28.0	Good	
136	Tulip poplar	Liriodendron tulipifera	7.0	Good	
137	Tulip poplar	Liriodendron tulipifera	30.6	Good	
138	Tulip poplar	Liriodendron tulipifera	28.5	Good	
139	Tulip poplar	Liriodendron tulipifera	17.0	Good	
140	Tulip poplar	Liriodendron tulipifera	8.1	Good	
141	Tulip poplar	Liriodendron tulipifera	26.6	Good	
142	Tulip poplar	Liriodendron tulipifera	21.7	Good	
143	Tulip poplar	Liriodendron tulipifera	10.4	Good	
144	Tulip poplar	Liriodendron tulipifera	6.5	Good	
145	Tulip poplar	Liriodendron tulipifera	19.1	Good	
146	Tulip poplar	Liriodendron tulipifera	9.4	Good	
147	Eastern cottonwood	Populus deltoides	18.1	Good	
148	Tulip poplar	Liriodendron tulipifera	16.5	Good	
149	Tulip poplar	Liriodendron tulipifera	12.2	Good	
150	Tulip poplar	Liriodendron tulipifera	8.9	Good	
151	Tulip poplar	Liriodendron tulipifera	10.5	Fair	Vine growth
152	White mallberry	Morus alba	8.2	Fair	Dieback
153	American sycamore	Platanus occidentalis	13.6	Good	
154	Tulip poplar	Liriodendron tulipifera	13.1	Good	Lean
155	Black walnut	Juglans nigra	10.9	Good	
156	Tulip poplar	Liriodendron tulipifera	8.4	Fair	Suckering,Lean
157	Tulip poplar	Liriodendron tulipifera	26.9	Good	
158	Tulip poplar	Liriodendron tulipifera	18.3	Good	
159	American sycamore	Platanus occidentalis	8.6	Good	
160	Dead	Lignum mortuum	11.3	Dead	
161	Tulip poplar	Liriodendron tulipifera	7.4	Fair	Suckering,Bark damadse
162	Tulip poplar	Liriodendron tulipifera	17.1	Fair	Edgeofstream
163	Tulip poplar	Liriodendron tulipifera	22.0	Good	
164	Dead	Lignum mortuum	20.1	Dead	
165	Red oak	Quercus rubra	18.5	Good	
166	Red maple	Acer rubrum	7.5	Good	
167	Mockernut hickory	Carya tomentosa	7.8	Good	
168	Tulip poplar	Liriodendron tulipifera	18.1	Good	
169	Tulip poplar	Liriodendron tulipifera	10.6	Good	
170	Tulip poplar	Liriodendron tulipifera	19.7	Good	
171	Tulip poplar	Liriodendron tulipifera	23.1	Fair	,Exposed Roofs on stream Edge
172	Tulip poplar	Liriodendron tulipifera	10.2	Good	
173	White oak	Quercus alba	10.2	Good	
174	Red oak	Quercus rubra	25.1	Good	
175	Tulip poplar	Liriodendron tulipifera	20	Good	
176	Tulip poplar	Liriodendron tulipifera	20.7	Good	
177	Tulip poplar	Liriodendron tulipifera	25.1	Good	
178	Tulip poplar	Liriodendron tulipifera	12.2	Good	
179	Tulip poplar	Liriodendron tulipifera	12.9	Good	
180	Tulip poplar	Liriodendron tulipifera	11.6	Good	
181	Tulip poplar	Liriodendron tulipifera	27.2	Good	
182	Tulip poplar	Liriodendron tulipifera	7.9	Good	
183	Tulip poplar	Liriodendron tulipifera	14.2	Good	
184	Tulip poplar	Liriodendron tulipifera	23.7	Good	
185	Tulip poplar	Liriodendron tulipifera	24.9	Good	
186	Tulip poplar	Liriodendron tulipifera	18.6	Good	
187	Tulip poplar	Liriodendron tulipifera	25.5	Good	
188	Tulip poplar	Liriodendron tulipifera	7.8	Good	
189	White oak	Quercus alba	17.6	Good	
190	Tulip poplar	Liriodendron tulipifera	27.7	Fair	Lean
191	Tulip poplar	Liriodendron tulipifera	12.5	Good	
192	Black cherry	Prunus serotina	10.7	Poor	Dieback , Abnormal growth
193	White oak	Quercus alba	7.2	Poor	Abnormal growth pattern
194	Eastern white pine	Pinus strobus	13	Good	
195	Eastern white pine	Pinus strobus	9	Good	
196	Eastern white pine	Pinus strobus	18.8	Good	
197	Eastern white pine	Pinus strobus	15.7	Poor	Cavities,Dieback
94	Tulip poplar	Liriodendron tulipifera	27.5	Good	Bark Peeling
95	Tulip poplar	Liriodendron tulipifera	22.3	Good	Bark Peeling, Co-dom
96	Tulip poplar	Liriodendron tulipifera	28.7	Good	Bark Peeling, Co-dom
97	Red maple	Acer rubrum	9.9	Good	Suckering,Cavity
98	Tulip poplar	Liriodendron tulipifera	28.2	Good	
99	Tulip poplar	Liriodendron tulipifera	35.5	Fair	Exposed roots, hollow, On the edge of stream
100	Tulip poplar	Liriodendron tulipifera	20.2	Fair	Exposed roots, hollow, On the edge of stream

SEQUENCE OF EVENTS

PRE-CONSTRUCTION

- AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED. THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED AND BEFORE ANY LAND DISTURBANCE.
2. THE PROPERTY OWNER MUST ARRANGE FOR THE MEETING AND FOLLOWING PEOPLE SHOULD MUST PARTICIPATE AT THE PRE-CONSTRUCTION MEETING: THE PROPERTY OWNER OR THEIR REPRESENTATIVE, CONSTRUCTION SUPERINTENDENT, INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST/MARYLAND LICENSED TREE EXPERT (REPRESENTING OWNER) THAT WILL IMPLEMENT THE TREE PROTECTION MEASURES, THE PLANNING DEPARTMENT FOREST CONSERVATION INSPECTOR, AND MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (DPS) SEDIMENT CONTROL INSPECTOR. THE PURPOSE OF THIS MEETING IS VERIFY THE LIMITS OF DISTURBANCE AND DISCUSS SPECIFIC TREE PROTECTION AND TREE CARE MEASURES SHOWN ON THE APPROVED PLAN. NO LAND DISTURBANCE SHALL BEGIN BEFORE TREE PROTECTION AND STRESS-REDUCTION MEASURES HAVE BEEN IMPLEMENTED AND APPROVED BY THE PLANNING DEPARTMENT'S FOREST CONSERVATION INSPECTOR.
- A. TYPICAL TREE PROTECTION DEVICES INCLUDE: I.CHAIN LINK FENCE (FOUR FEET HIGH) II.SUPER SILT FENCE WITH WIRE STRUNG BETWEEN THE SUPPORT POLES (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING. III.1/4 GAUGE, 2 INCH X 4 INCH WELDED WIRE FENCING SUPPORTED BY STEEL T-BAR POSTS (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.
- B. TYPICAL STRESS REDUCTION MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO: I.ROOT PRUNING WITH A ROOT CUTTER OR VIBRATORY PLOW DESIGNED FOR THAT PURPOSE. TRENCERS ARE NOT ALLOWED, UNLESS APPROVED BY THE FOREST CONSERVATION INSPECTOR II.CROWN REDUCTION OR PRUNING III.WATERING IV.FERTILIZING V.VERTICAL MULCHING VI.ROOT AERATION SYSTEMS MEASURES NOT SPECIFIED ON THE FOREST CONSERVATION PLAN MAY BE REQUIRED AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR IN COORDINATION WITH THE PROPERTY OWNER ARBORIST.
3. A MARYLAND LICENSED TREE EXPERT MUST PERFORM, OR DIRECTLY SUPERVISE, THE IMPLEMENTATION OF ALL STRESS REDUCTION MEASURES, DOCUMENTATION OF THE PROCESS (INCLUDING PHOTOGRAPHS) MAY BE REQUIRED BY THE FOREST CONSERVATION INSPECTOR, AND WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.
4. TEMPORARY TREE PROTECTION DEVICES MUST BE INSTALLED PER THE APPROVED FOREST CONSERVATION PLAN, EXEMPTION PLAN, OR TREE SAVE PLAN AND PRIOR TO ANY LAND DISTURBANCE. THE FOREST CONSERVATION INSPECTOR, IN COORDINATION WITH THE DPS SEDIMENT CONTROL INSPECTOR, MAY MAKE FIELD ADJUSTMENTS TO INCREASE THE SURVIVABILITY OF TREES AND FOREST SHOWN AS SAVED ON THE APPROVED PLAN.
5. TREE PROTECTION FENCING MUST BE INSTALLED AND MAINTAINED BY THE PROPERTY OWNER FOR THE DURATION OF CONSTRUCTION PROJECT AND MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL FROM THE FOREST CONSERVATION INSPECTOR. ALL CONSTRUCTION ACTIVITY WITHIN PROTECTED TREE AND FOREST AREAS IS PROHIBITED. THIS INCLUDES THE FOLLOWING ACTIVITIES: A.PARKING OR DRIVING OF EQUIPMENT, MACHINERY OR VEHICLES OF ANY TYPE. B.STORAGE OF ANY CONSTRUCTION MATERIALS, EQUIPMENT, STOCKPILING, FILL, DEBRIS, ETC. C.DUMPING OF ANY CHEMICALS (I.E., PAINT THINNER), MORTAR OR CONCRETE REMAINDER, TRASH, GARBAGE, OR DEBRIS OF ANY KIND. D.FELLING OF TREES INTO A PROTECTED AREA. E.TRENCING OR GRADING FOR UTILITIES, IRRIGATION, DRAINAGE, ETC.
6. FOREST AND TREE PROTECTION SIGNS MUST BE INSTALLED AS REQUIRED BY THE FOREST CONSERVATION INSPECTOR. THE SIGNS MUST BE WATERPROOF AND WORDING PROVIDED IN BOTH ENGLISH AND SPANISH.
7. PERIODIC INSPECTIONS WILL BE MADE BY THE FOREST CONSERVATION INSPECTOR, CORRECTIONS AND REPAIRS TO TREE PROTECTION DEVICES MUST BE COMPLETED WITHIN THE TIME FRAME GIVEN BY THE INSPECTOR.
8. THE PROPERTY OWNER MUST IMMEDIATELY NOTIFY THE FOREST CONSERVATION INSPECTOR OF ANY DAMAGE TO TREES, FORESTS, UNDERSTORY, GROUND COVER, AND ANY OTHER UNDISTURBED AREAS SHOWN ON THE APPROVED PLAN. REMEDIAL ACTIONS, AND THE RELATIVE TIME FRAMES TO RESTORE THESE AREAS, WILL BE DETERMINED BY THE FOREST CONSERVATION INSPECTOR. POST-CONSTRUCTION
9. AFTER CONSTRUCTION IS COMPLETED, BUT BEFORE TREE PROTECTION DEVICES HAVE BEEN REMOVED, THE PROPERTY OWNER MUST REQUEST A FINAL INSPECTION WITH THE FOREST CONSERVATION INSPECTOR. AT THE FINAL INSPECTION, THE FOREST CONSERVATION INSPECTOR MAY REQUIRE ADDITIONAL CORRECTIVE MEASURES, WHICH MAY INCLUDE: A.REMOVAL AND POSSIBLE REPLACEMENT OF DEAD, DYING, OR HAZARDOUS TREES B.PRUNING OF DEAD OR DECLINING LIMBS C.SOIL AERATION D.FERTILIZATION E.WATERING F.WOUND REPAIR G.CLEAN UP OF RETENTION AREAS, INCLUDING TRASH REMOVAL
10. AFTER THE FINAL INSPECTION AND COMPLETION OF ALL CORRECTIVE MEASURES THE FOREST CONSERVATION INSPECTOR WILL REQUEST ALL TEMPORARY TREE AND FOREST PROTECTION DEVICES BE REMOVED FROM THE SITE. REMOVAL OF TREE PROTECTION DEVICES THAT ALSO OPERATE FOR EROSION AND SEDIMENT CONTROL MUST BE COORDINATED WITH BOTH DPS AND THE FOREST CONSERVATION INSPECTOR AND CANNOT BE REMOVED WITHOUT PERMISSION OF THE FOREST CONSERVATION INSPECTOR. NO ADDITIONAL GRADING, SODDING, OR BURIAL MAY TAKE PLACE AFTER THE TREE PROTECTION FENCING IS REMOVED.
11. LONG-TERM PROTECTION MEASURES, INCLUDING PERMANENT SIGNAGE, MUST BE INSTALLED PER THE APPROVED PLAN. INSTALLATION WILL OCCUR AT THE APPROPRIATE TIME DURING THE CONSTRUCTION PROJECT. REFER TO THE APPROVED PLAN DRAWING FOR THE LONG-TERM PROTECTION MEASURES TO BE INSTALLED

SOIL SURVEY

Map Unit Symbol	Map Unit Name	K-Factor (Whole Soil)	Hydric Rating	Hydrologic Soil Group	Drainage Rating	Serpentine Soil	Prime Agricultural
2C	Glenelg silt loam, 8 to 15 percent slopes	0.37	0	B	Well drained	No	Yes
2UB	Glenelg-Urban land complex, 0 to 8 percent slopes percent slopes	0.28	0	B	Well drained	No	No

SIMPLIFIED FSD PLAN
WSSC MAP # 215NW01
TAX MAP ID: JQ342

Mauro Aracuz

11 / 2023
DATE

MANUEL ALVARENGA
DNR QUALIFIED PROFESSIONAL

ADDRESS: 17830 NEW HAMPSHIRE AVENUE
PHONE: 240-722-6313
MALVARENGA@MERCADOENG.COM

AUTH LANE TO KERSEY ROAD
PEDESTRIAN CONNECTION
42024099E
TREE TABLE
ELECTION DISTRICT 13
MONTGOMERY COUNTY, MD
500FT NORTHEAST OF ARCOLA AVE
ALE : AS SHOWN DATE : NOVEMBER, 2023

Project No. : 502505 SHEET 18 of 18