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RUNOFF 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. \_\_\_\_\_ 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 runoff 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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

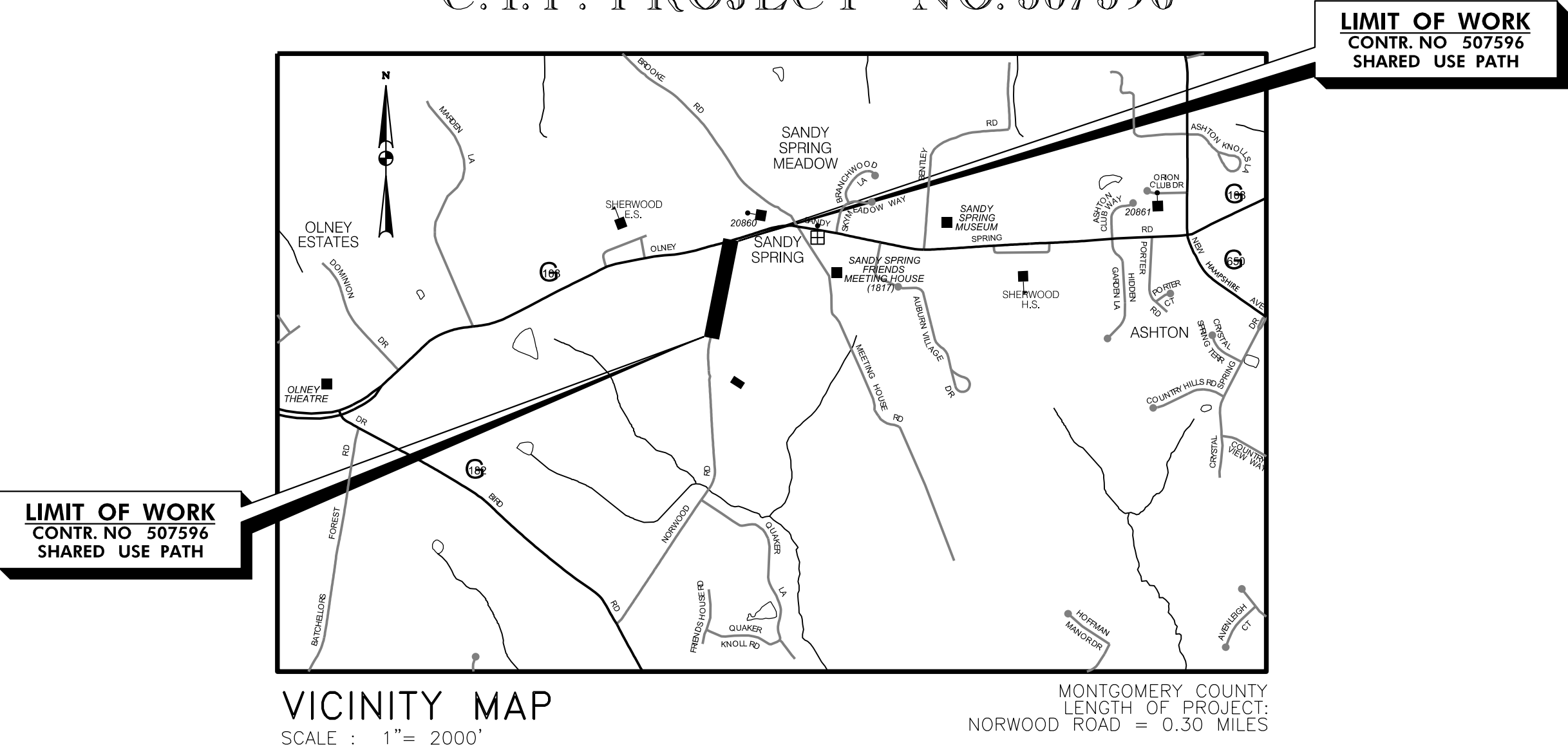
FOR SEDIMENT CONTROL APPLICATIONS AS OF APRIL 30, 2024

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. A fee in lieu of planting will be charged for any required canopy trees that are not planted.	
Exempt: Yes <input type="checkbox"/> No <input type="checkbox"/> If exempt under Section 55-5 of the Code, please check the applicable exemption category below.	
Total Property Area	Total Disturbed Area
505,778 square feet	39,184 square feet
Shade Trees Required	Shade Trees Proposed to be Planted
15	0
Number of Trees Requiring Payment of a Fee in Lieu (Trees Required – Trees Planted)	
15 Trees	
Required Number of Shade Trees	
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required
FROM TO	
1 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 CHECK AS APPLICABLE	
<input type="checkbox"/> 55-5(a) any activity that is subject to Article II of Chapter 22A; <input type="checkbox"/> 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A; <input type="checkbox"/> 55-5(f) any activity conducted by the County Parks Department; <input type="checkbox"/> 55-5(g) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the	<input type="checkbox"/> maintenance has obtained all required permits; <input type="checkbox"/> 55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits; <input type="checkbox"/> 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams; <input type="checkbox"/> OTHER: Specify per Section 55-5 of the Code.

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION

NORWOOD ROAD  
SHARED USE PATH

C.I.P. PROJECT NO.507596



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.

DATE \_\_\_\_\_ JOSEPH MOGES  
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.

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 250 cubic yards of excavation, 70 cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be 39,184 square feet.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
MICHAEL MERCADO, P.E. 38931  
PRINTED NAME AND TITLE 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
MDPS Floodplain District		X			
WATERWAYS/WETLAND(S):					
a. Corps of Engineers	X				
b. MDE	X				
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
*DPS Roadside Trees Protection Plan	X		MC001 BLANKET PERMIT NO. 361405	Approval Date	DATE FILED
N.P.D.E.S. NOTICE OF INTENT		X			
FEW LOAR (Required Post Construction)		X			
OTHERS:					
DPS Erosion and Sediment Control	X				
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) 777-7263					
CONTACT PERSON: REBECCA PARK, P.E.					

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION JULY 2023 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 TO 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.
- THE PERMITTEE SHALL REFER TO THE ATTACHED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS TO SELECT THE APPROPRIATE WORK ZONE TEMPORARY TRAFFIC CONTROLS FOR EACH PHASE OF CONSTRUCTION. WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN THE ATTACHED TTCP SHALL CONFORM TO THE GUIDELINES SET FORTH IN SECTION 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), MOST RECENT EDITION.
- FOR CONSTRUCTION, ALL HORIZONTAL AND VERTICAL CONTROLS SHALL BE NAD 83 (2007) AND NAVD 88 DATUM.













75% DESIGN SUBMISSION 4–4–2025


TECHNICAL REVIEW OF SEDIMENT CONTROL	ADMINISTRATIVE REVIEW	DPS APPROVAL OF A SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT STANDARDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S PERMISSION. IT DOES NOT RELIEVE THE DESIGN ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE ADEQUACY OF THE DRAINAGE DESIGN AS IT AFFECTS UPHILL OR DOWNHILL PROPERTIES.
REVIEWED DATE	REVIEWED DATE	
TECHNICAL REVIEW OF STORMWATER MANAGEMENT	SMALL LOT DRAINAGE APPROVAL	
	N/A: <input checked="" type="checkbox"/> OR	
REVIEWED DATE	REVIEWED DATE	
MCDCS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.	NOTE: MCDCS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDCS ACCESS PERMIT.	SEDIMENT CONTROL PERMIT NO. _____
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		SM. FILE NO. STORMWATER MANAGEMENT _____
RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH
Chief, Design Section _____ Date _____ APPROVED		TITLE SHEET
Chief, Division of Transportation Engineering _____ Date _____		SCALE : AS SHOWN DATE : APRIL, 2025
Designed by : MMW Drawn by : NL Checked by : MMW		Project No. : 507596 SHEET 1 of 28

## ABBREVIATIONS

AASHTO.....	American Association of State Highway Transportation Officials	HP.....	High Point	R.Q.D.....	Rock Quality Designation
ADT.....	Average Daily Traffic	IN.....	Inch	R.M.....	Roomat
AHD.....	Ahead	INV.....	Invert	S.....	South
APPROX.....	Approximate	J.B.....	Junction Box	SAN.....	Sanitary Sewer
□ or B/L.....	Baseline	K.....	K Inlet	SB or S/B.....	Southbound
BK.....	Back / Book	L.....	Length	S.D.....	Storm Drain
BIT.....	Bituminous	LF.....	Linear Feet	S.D.D.....	Surface Drain Ditch
B.C.....	Bituminous Concrete	L.L.....	Liquid Limit	S/E.....	Super Elevation
B.M.....	Bench Mark	LOD.....	Limit of Disturbance	SF.....	Silt Fence
BOT.....	Bottom	LP.....	Low Point	SF.....	Square Feet
C.C.....	Center of Curve	L.P.....	Light Pole	SHT.....	Sheet
CAP.....	Corrugated Aluminum Pipe	LT.....	Left	SPP.....	Structural Steel Plate Pipe
CAPA.....	Corrugated Aluminum Pipe Arch	MAC.....	Macadam	SPPA.....	Structural Steel Plate Pipe Arch
CATV.....	Cable Television	M.C.....	Moisture Content	S.P.T.....	Standard Penetration Testing
C.B.R.....	California Bearing Ratio	MAX.....	Maximum	SRP.....	Steel Spiral Rib Pipe - Aluminized Type 2
□ or C/L.....	Centerline	M.D.D.....	Maximum Dry Content	SRPA.....	Steel Spiral Rib Pipe Arch - Aluminized Type 2
CL.....	Class	MOD.....	Modified	SSD.....	Stopping Sight Distance
CLF.....	Chainlink Fence	MIN.....	Minimum	SSF.....	Super Silt Fence
CMP.....	Corrugated Metal Pipe	N.....	North	STD.....	Standard
C.O.....	Cleanout	NB.....	Northbound	STA.....	Station
COMB.....	Combination	NE.....	Northeast	SO.....	Single Opening
CONC.....	Concrete	N.P.....	Non-Plastic	SY.....	Square Yards
CONSTR.....	Construction	O.C.....	On Center	SWM.....	Stormwater Management
COR.....	Corner	OHE.....	Overhead Electric	T.....	Tangent
CORR.....	Correction	O.M.....	Optimum Moisture	T.....	Telephone
CPP-S.....	Corrugated Polyethylene Pipe - Type 'S'	PAVT.....	Pavement	T.C.....	Top of Cover
CSP.....	Corrugated Steel Pipe - Aluminized Type 2	PC.....	Point of Curvature	T.G.....	Top of Grate
CSPA.....	Corrugated Steel Pipe Arch - Aluminized Type 2	P/C.....	Point of Crown	T or TL.....	Traverse Line
DC.....	Degree of Curve	P/GE.....	Profile Grade Elevation	T.M.....	Top of Manhole
D.H.V.....	Design Hourly Volume	P.G.E.....	Profile Ground Elevation	TRAV.....	Traverse
D.I.....	Drop Inlet	P.G.L.....	Profile Grade Line	TS.....	Temporary Swale
DIA.....	Diameter	P/GL.....	Profile Ground Line	T.S.....	Top of Slab
D.O.....	Double Opening	P/R.....	Point of Rotation	T.S.....	Topsoil
E.....	East	P.I.....	Plasticity Index	TYP.....	Typical
E.....	Electric	PI.....	Point of Intersection	U.D.....	Under Drain
E.....	External Distance	POC.....	Point On Curve	U.G.....	Underground
EA.....	Each	POT.....	Point On Tangent	U.P.....	Utility Pole
EB.....	Eastbound	PPWP.....	Polyvinyl Chloride Profile Wall Pipe	US EPA.....	United States Environmental Protection Agency
ELEV.....	Elevation	PROP.....	Proposed	USDA.....	United States Department of Agriculture
ES.....	End Section	PRC.....	Point of Reverse Curve	VCL.....	Vertical Clearance
ESC.....	Erosion and Sediment Control	PT.....	Point	V.C.L.....	Vertical Curve Length
EX or EXIST.....	Existing	PT.....	Point of Tangency	W.....	Water
FT.....	Feet	PVC.....	Point of Vertical Curve	W.....	West
F or FL.....	Flowline	PVC.....	Polyvinyl Chloride	WB.....	Westbound
F.B.D.....	Flat Bottom Ditch	PVI.....	Point of Vertical Intersection	WB.....	Wetland Buffer
F.H.....	Fire Hydrant	PVRC.....	Point of Vertical Reverse Curve	W.M.....	Water Meter
FWD.....	Forward	PVT.....	Point of Vertical Tangency	W.S.....	Wrapped Steel
G.....	Gas	R.....	Radius	WUS.....	Waters of the United States
G.V.....	Gas Valve	R.F.....	Rock Fragments	W.V.....	Water Valve
H.B.....	Handbox	RT.....	Right		
HDWL.....	Headwall	RW or R/W.....	Right of Way		
HERCP.....	Horizontal Elliptical Reinforced Concrete Pipe	RCP.....	Reinforced Concrete Pipe		
		RCPP.....	Reinforced Concrete Pressure Pipe		

## SOILS LEGEND

 A-3 SAND	 A-2-7 CLAYEY SAND	 A-7-4 SILTY CLAY
 A-2 SAND & FINES	 A-7-2 SANDY CLAY	 A-7 CLAY
 A-2-4 SILTY SAND	 A-4 SILT	 A-6 COLLOIDAL CLAY
 A-4-2 SANDY SILT	 A-4-7 CLAYEY SILT	 A-5 MICA, DIATOMS


 PLAN LOCATION OF  
SOIL BORINGS

BORING TARGETS AND PROFILES SCALE:  
 HORIZONTAL - NONE  
 VERTICAL - SEE PROFILE SHEETS

AO-ABOVE OPTIMUM	LL-LIQUID LIMIT (%)
AS-SATURATED	PI-PLASTICITY INDEX (%)
LIO-LIOUFIED	NP-NON-PLASTIC
	OMC-OPTIMUM MOISTURE CONTENT (%)
TS-TOPSOIL	USC-UNIFIED SOIL CLASSIFICATION
RM-ROOT MAT	USDA-UNITED STATES DEPARTMENT OF
BC-BITUMINOUS CONCRETE	AGRICULTURE CLASSIFICATION
SB-STONE BASE	
PCC-PORTLAND CEMENT	W/GR-WITH GRAVEL
CONCRETE	W/R/-WITH ROCK FRAGMENTS

NOTES: SOIL SYMBOLS DENOTE MSMT CLASSIFICATIONS

ALL DIMENSIONS, DEPTHS AND ELEVATIONS ARE NOTED IN FEET

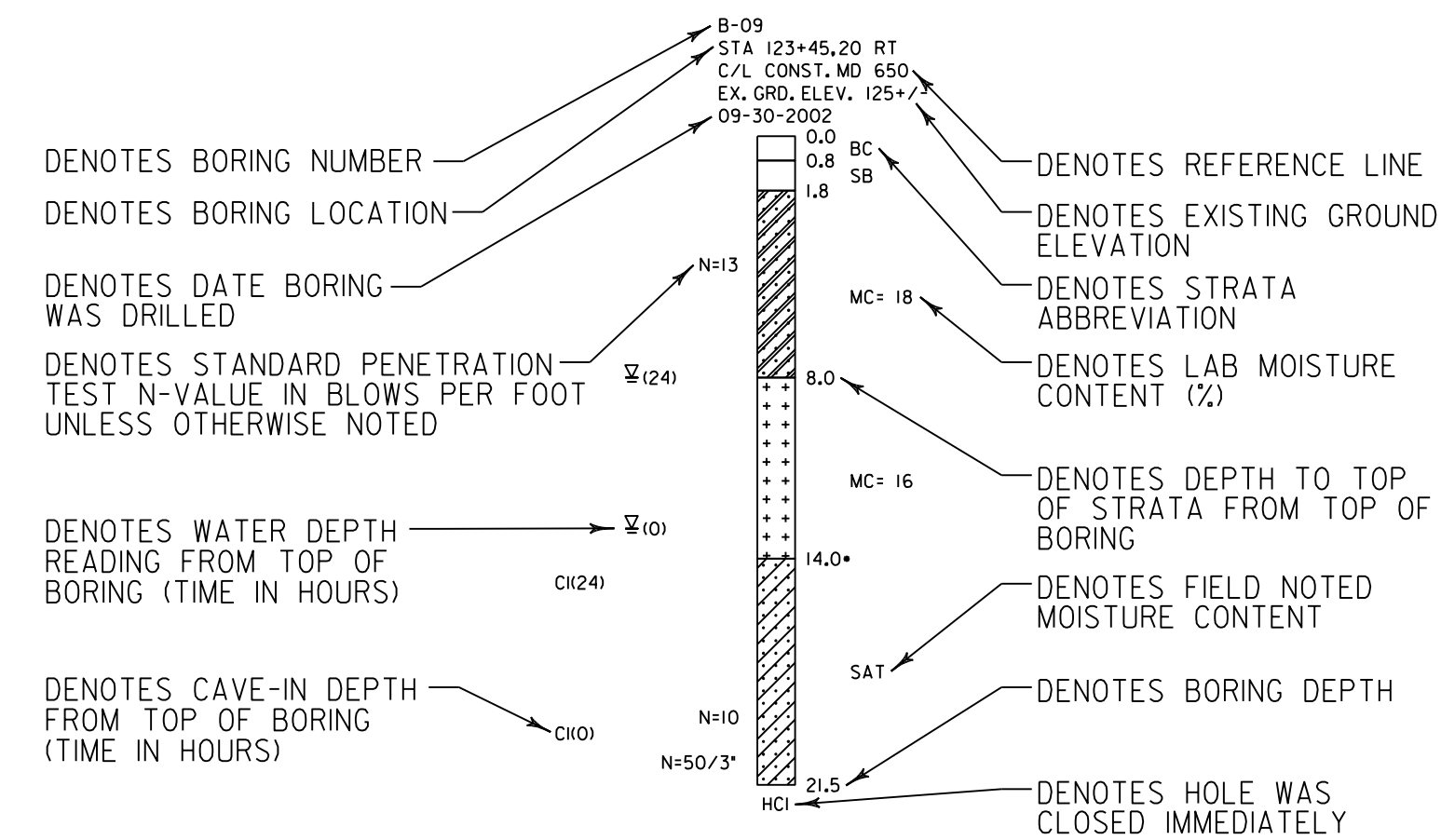
AN ASTERISK AT THE TOP DEPTH OF STRATA INDICATES THAT STRATA WAS VISUALLY CLASSIFIED BY DRILLER

MDD &amp; OMC PER A.A.S.H.T.O. DESIGNATION T-180

N PER A.A.S.H.T.O. DESIGNATION T-206

UNLESS OTHERWISE NOTED ON PLANS, ALL SOIL SURVEY BORINGS FOR ROADWAY CONSTRUCTION WERE LEFT OPEN FOR 24 HOURS WITH NO EXCESS MOISTURE OR FREE WATER ENCOUNTERED DURING TIME OF SOIL SURVEY (09/2000 TO 06/2002)

# SOIL BORING PROFILE EXAMPLE



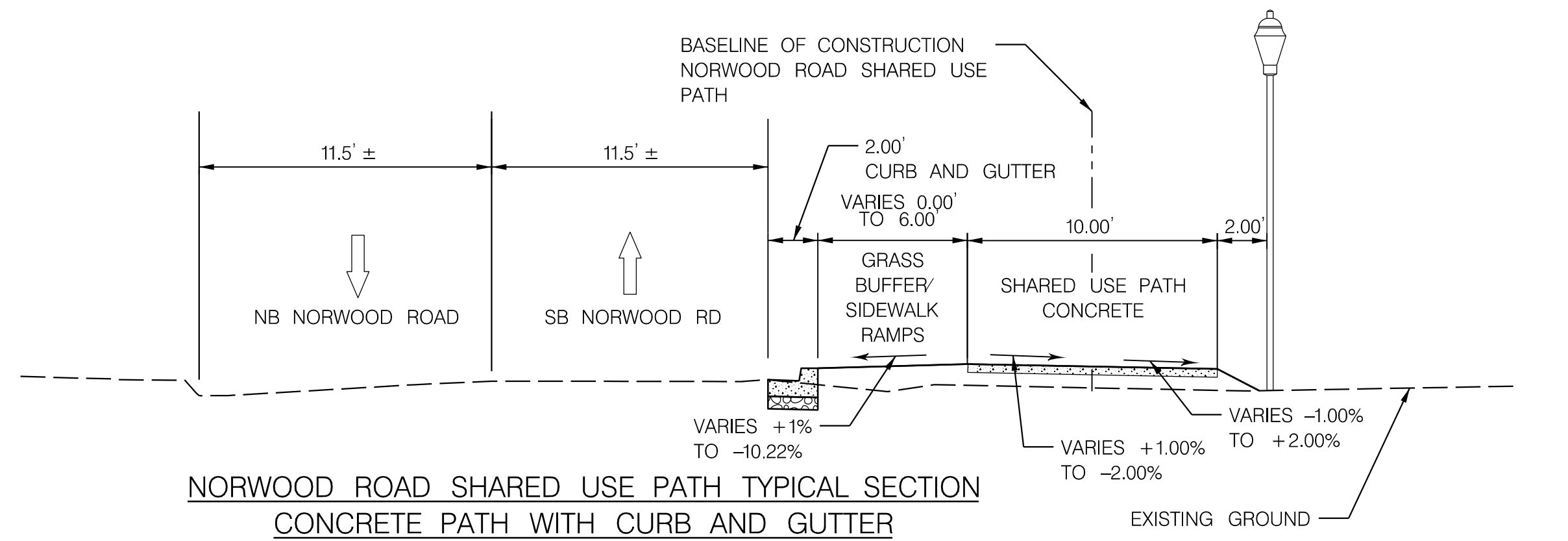
SOILS TEST DATA								
BORING NUMBER	SAMPLE DEPTH	LL	PI	USDA	USC	MDD	OMC	REMARKS
B-09	1.8 - 8.0	18	NP	Sandy Loam	-	-	-	with Gravel
B-09	8.0 - 14.0	41	22	Silty Clay Loam	CL	121	12	-

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
				RECOMMENDED FOR APPROVAL	NORWOOD ROAD SHARED USE PATH
				_____ Chief, Transportation Planning and Design Section APPROVED	NOTES AND ABBREVIATIONS
				_____ Chief, Division of Transportation Engineering	SCALE _____ NONE DATE _____ APRIL, 2025
NO.	REVISION	DATE	BY	DESIGNED BY RA DRAWN BY NL CHECKED BY MMW	SHEET NO. 2 OF 28

## CONVENTIONAL SIGNS

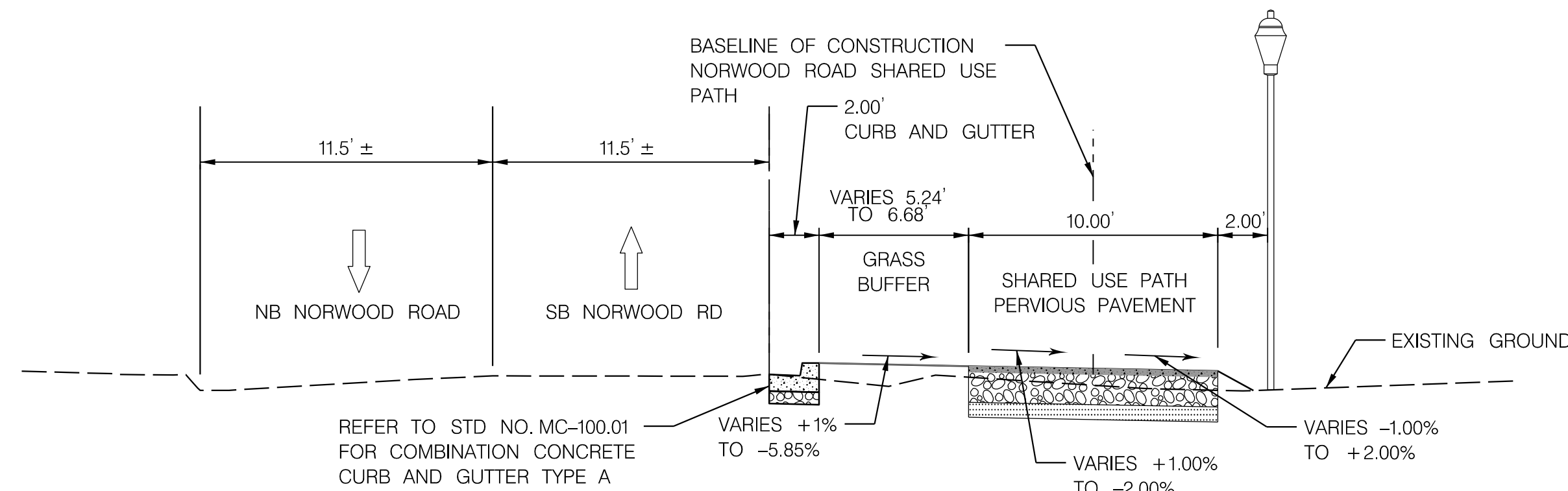
PROPOSED MEDIAN BARRIER .....		EXISTING 100 YEAR FLOODPLAIN BOUNDARY .....	
ELECTRICAL HAND BOX - SIGNALS .....		PROPOSED 100 YEAR FLOODPLAIN BOUNDARY .....	
FLOW LINE .....		WETLAND BOUNDARY .....	
STATE, COUNTY OR CITY LINES .....		PROPOSED PIPE / CULVERT .....	
PROPOSED TRAFFIC BARRIER W-BEAM .....		EXISTING PIPE / CULVERT .....	
EXISTING TRAFFIC BARRIER W-BEAM .....		EXISTING DROP INLET .....	
PROPOSED FENCE LINE .....		UTILITY POLE .....	
EXISTING FENCE LINE .....		EXISTING WATER .....	
PROPOSED CURB AND GUTTER .....		EXISTING SANITARY SEWER .....	
R/W LINE .....		EXISTING ELECTRIC .....	
TEMPORARY CONSTRUCTION EASEMENT .....		EXISTING OVERHEAD ELECTRIC .....	
EXISTING ROADWAY .....		EXISTING FIBER OPTIC .....	
BASE LINE OR SURVEY LINE .....		EXISTING TELEPHONE .....	
FIRE HYDRANT .....		WETLAND .....	
HISTORIC BOUNDARY .....		WETLAND BUFFER .....	
PARK BOUNDARY .....		WATERS OF THE U.S. ....	
WATER LINE .....		HEDGE /TREE LINE .....	
OVERHEAD ELECTRIC .....		BUSH /TREE .....	
TRAFFIC BARRIER .....			





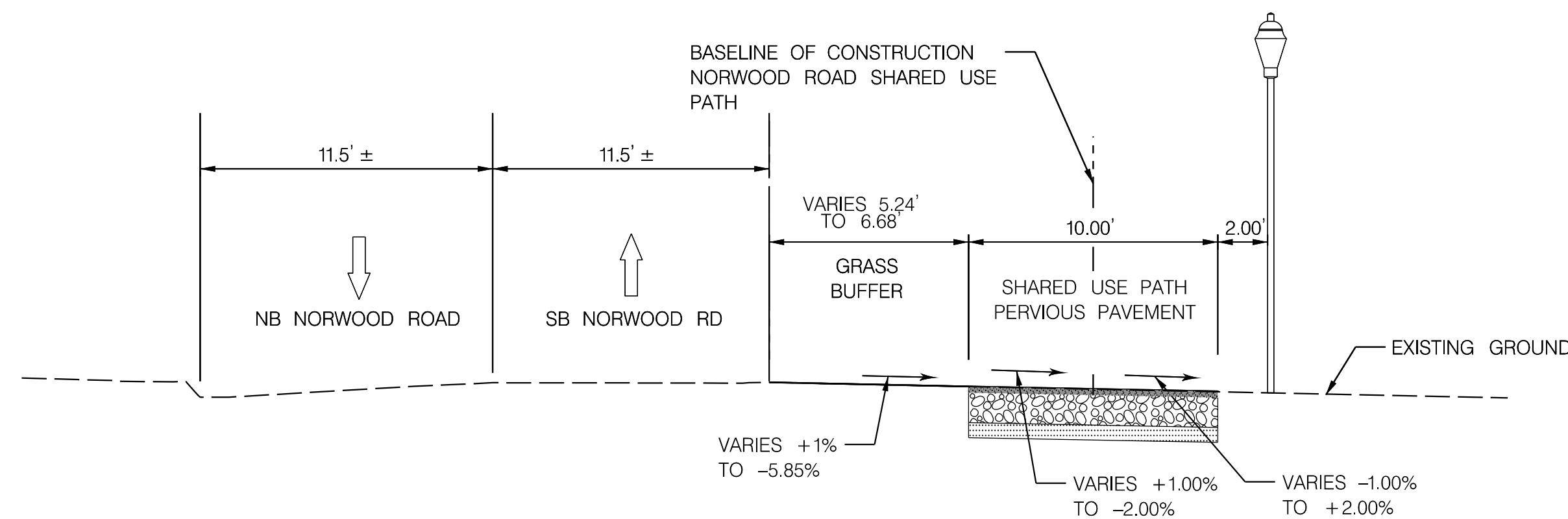
NORWOOD ROAD SHARED USE PATH TYPICAL SECTION  
CONCRETE PATH WITH CURB AND GUTTER

STA. 10+21 TO STA. 10+37  
STA. 10+49 TO STA. 10+56  
STA. 23+42 TO STA. 23+70



NORWOOD ROAD SHARED USE PATH TYPICAL SECTION  
PERVIOUS PAVEMENT PATH WITH CURB AND GUTTER

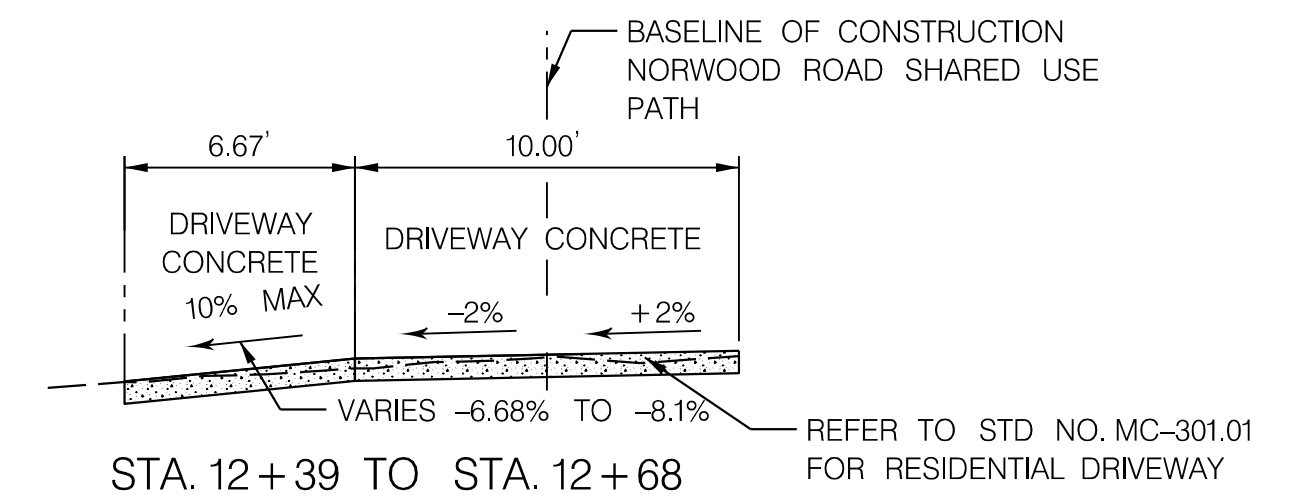
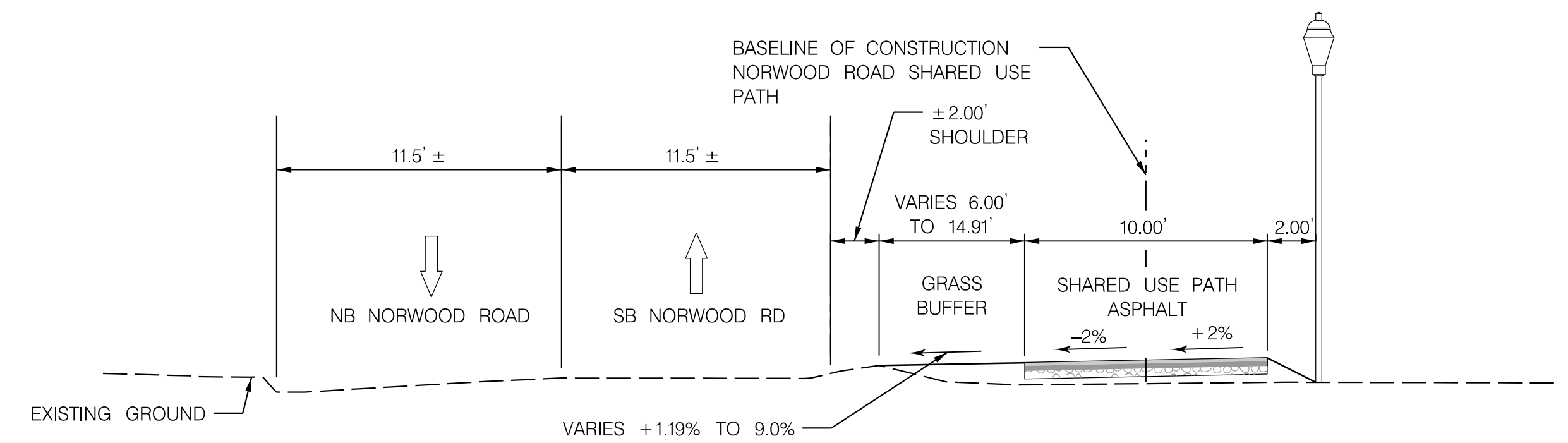
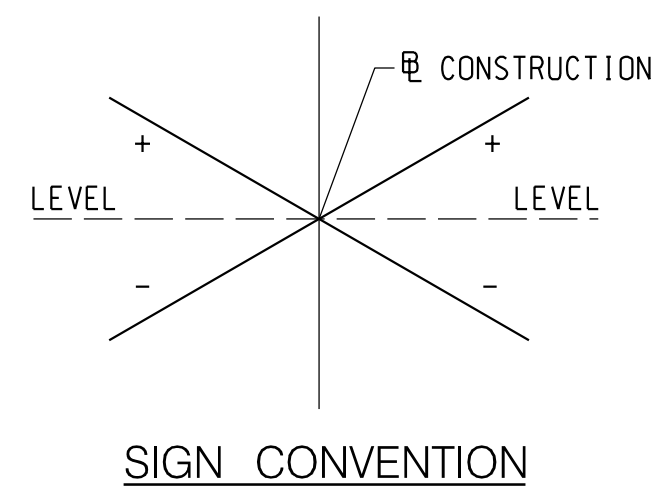
STA. 10+37 TO STA. 10+49  
STA. 10+56 TO STA. 10+97



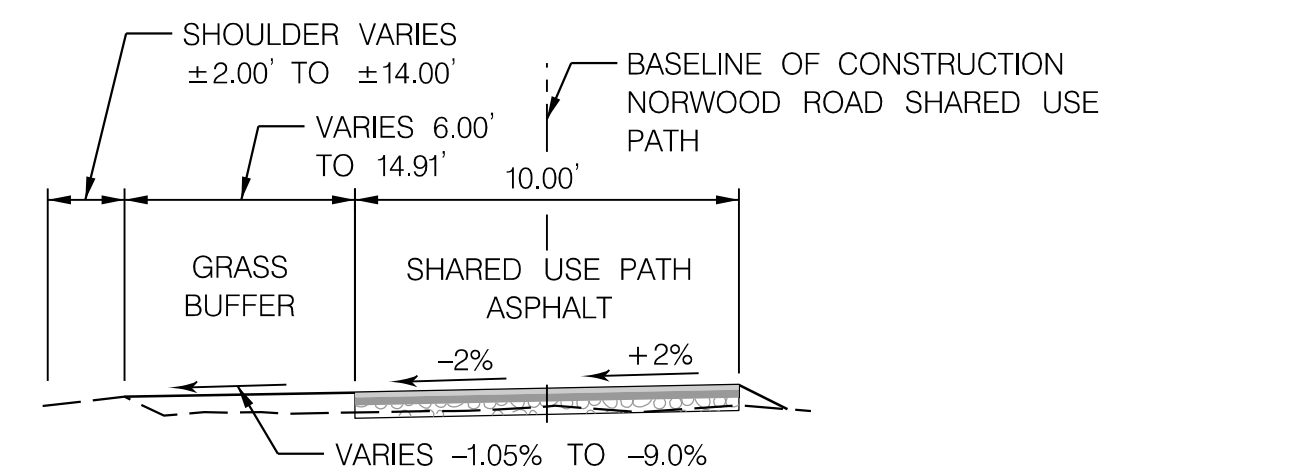
NORWOOD ROAD SHARED USE PATH TYPICAL SECTION  
PERVIOUS PAVEMENT PATH

STA. 10+97 TO STA. 12+39

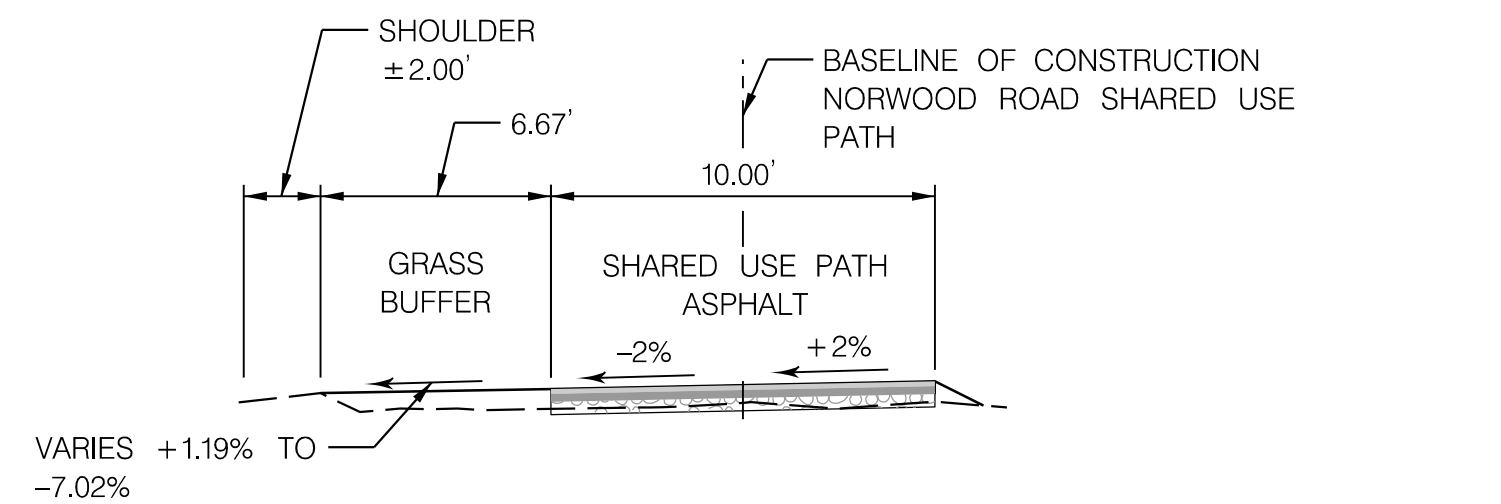
PERVIOUS PAVEMENT SHALL BE SLOPED 1% TOWARDS WEST UNTIL STA. 12+14 WHEN IT SHALL BE TRANSITIONED TO SLOPE 2% TOWARDS NORWOOD ROAD AT THE DRIVEWAY AT STA. 12+39



STA. 12+39 TO STA. 12+68



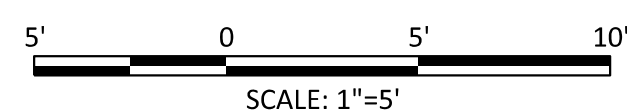
STA. 22+29 TO STA. 23+34



STA. 12+68 TO STA. 12+91  
STA. 20+26 TO STA. 22+29

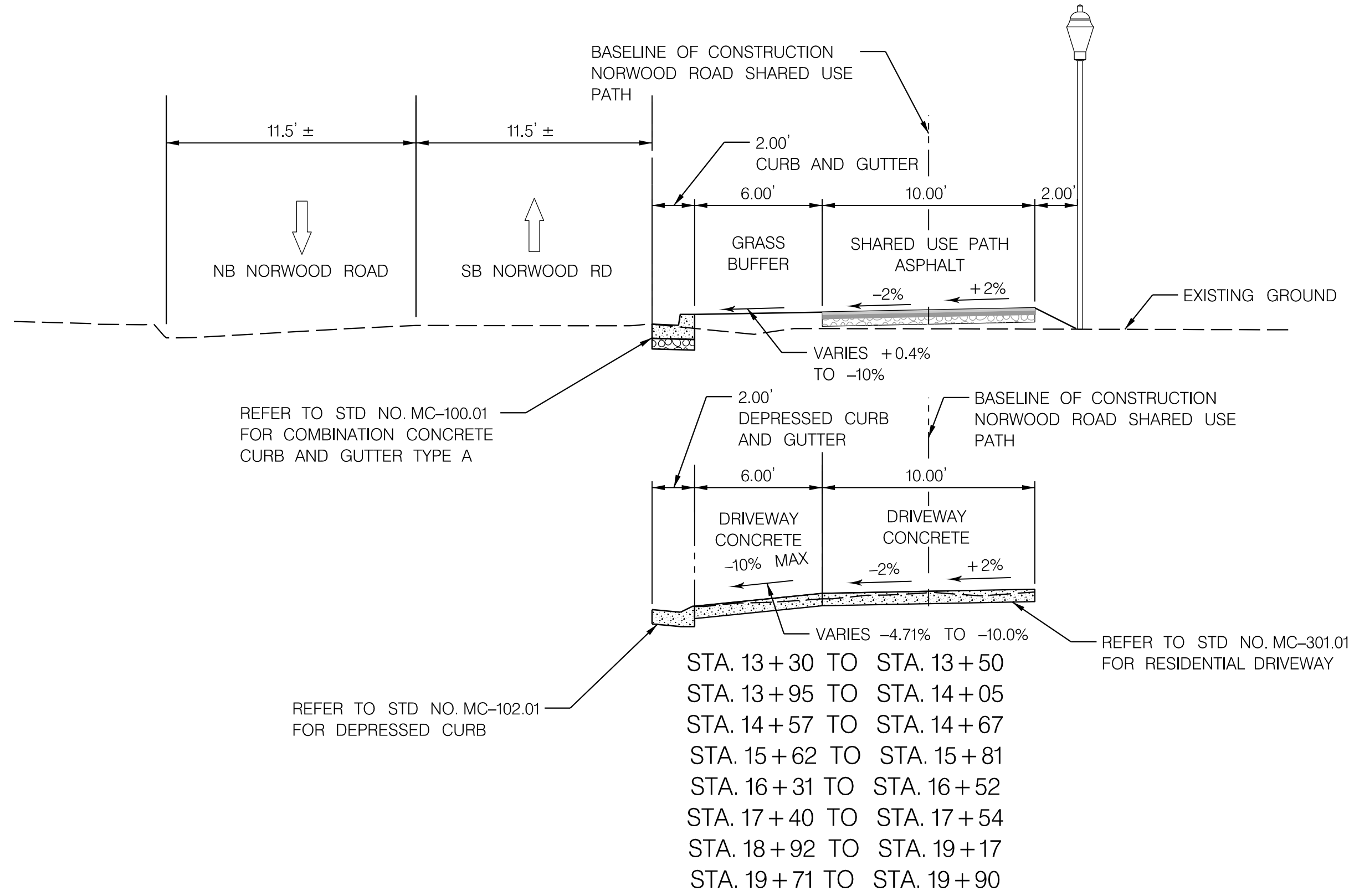
NORWOOD ROAD SHARED USE PATH TYPICAL SECTION  
ASPHALT PATH AND CONCRETE DRIVEWAY

STA. 12+39 TO STA. 12+91  
STA. 20+26 TO STA. 23+34

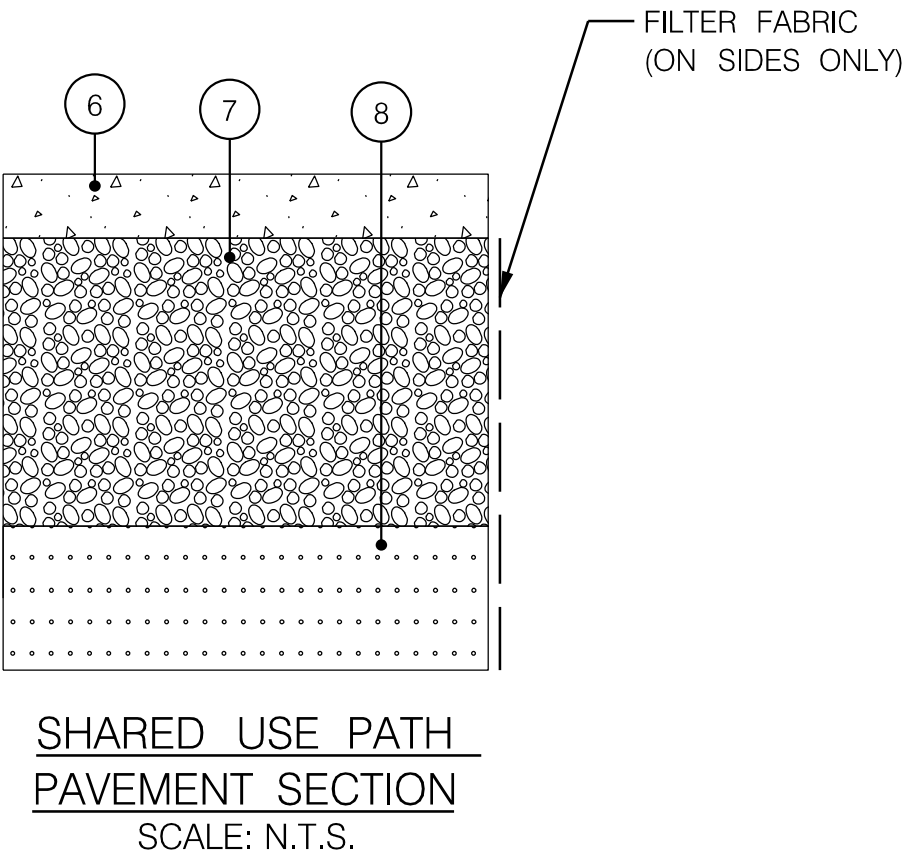
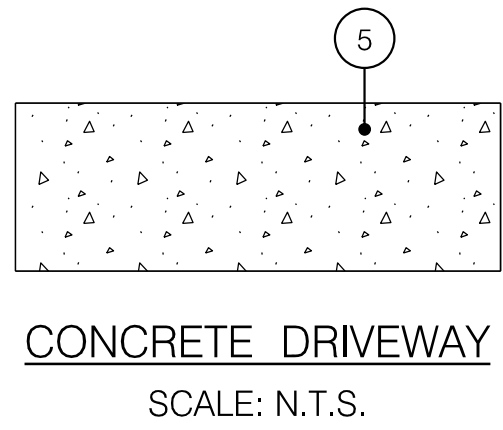
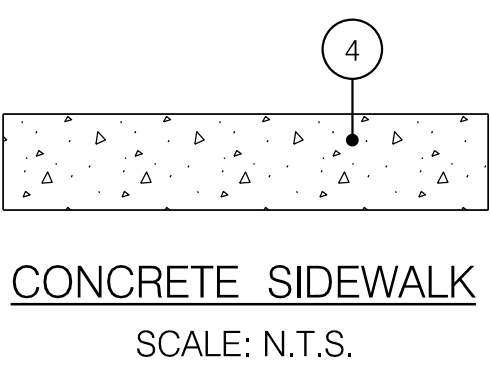
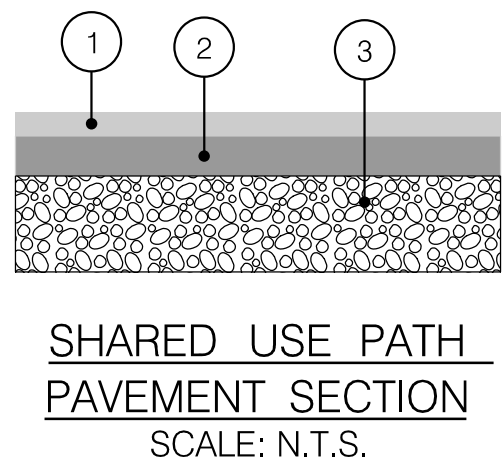


SCALE: 1"=5'

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH	
				_____ Chief, Transportation Planning and Design Section APPROVED		_____ Date	
				_____ Chief, Division of Transportation Engineering		_____ Date	
				DESIGNED BY <u>RA</u>		TYPICAL SECTIONS	
				DRAWN BY <u>NL</u>		SCALE <u>1"=5'</u>	
				CHECKED BY <u>MWM</u>		DATE <u>APRIL, 2025</u>	
						SHEET NO. <u>3</u> OF <u>28</u>	

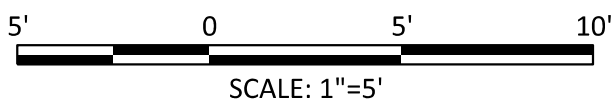
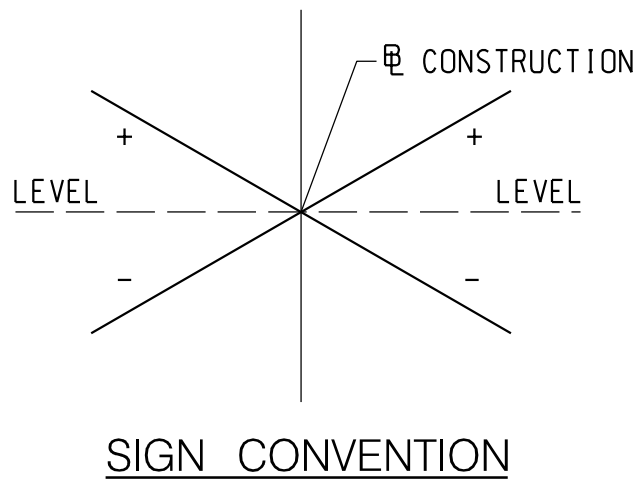


NORWOOD ROAD SHARED USE PATH TYPICAL SECTION  
ASPHALT PATH AND CONCRETE DRIVEWAY WITH CURB AND GUTTER  
STA. 12+91 TO STA. 20+26  
STA. 23+34 TO STA. 23+42



PAVEMENT LEGEND

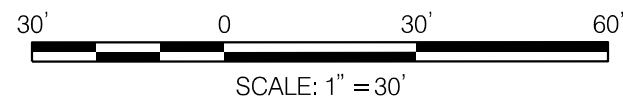
- 1 1.5" BITUMINOUS CONCRETE SURFACE COURSE (ASPHALT)
- 2 2.5" BITUMINOUS CONCRETE BASE COURSE (ASPHALT)
- 3 4" GRADED AGGREGATE BASE
- 4 4" CONCRETE FOR SIDEWALK
- 5 7" CONCRETE FOR DRIVEWAY
- 6 PERVIOUS CONCRETE/PERVIOUS ASPHALT
- 7 12" STONE SUB-BASE
- 8 6" SAND



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING NORWOOD ROAD SHARED USE PATH	
				RECOMMENDED FOR APPROVAL		TYPICAL SECTIONS	
				Chief, Transportation Planning and Design Section APPROVED		SCALE 1"=5'      DATE APRIL, 2025	
				Chief, Division of Transportation Engineering		SHEET NO. 4 OF 28	
NO.	REVISION	DATE	BY	DESIGNED BY RA	DRAWN BY NL	CHECKED BY MWM	

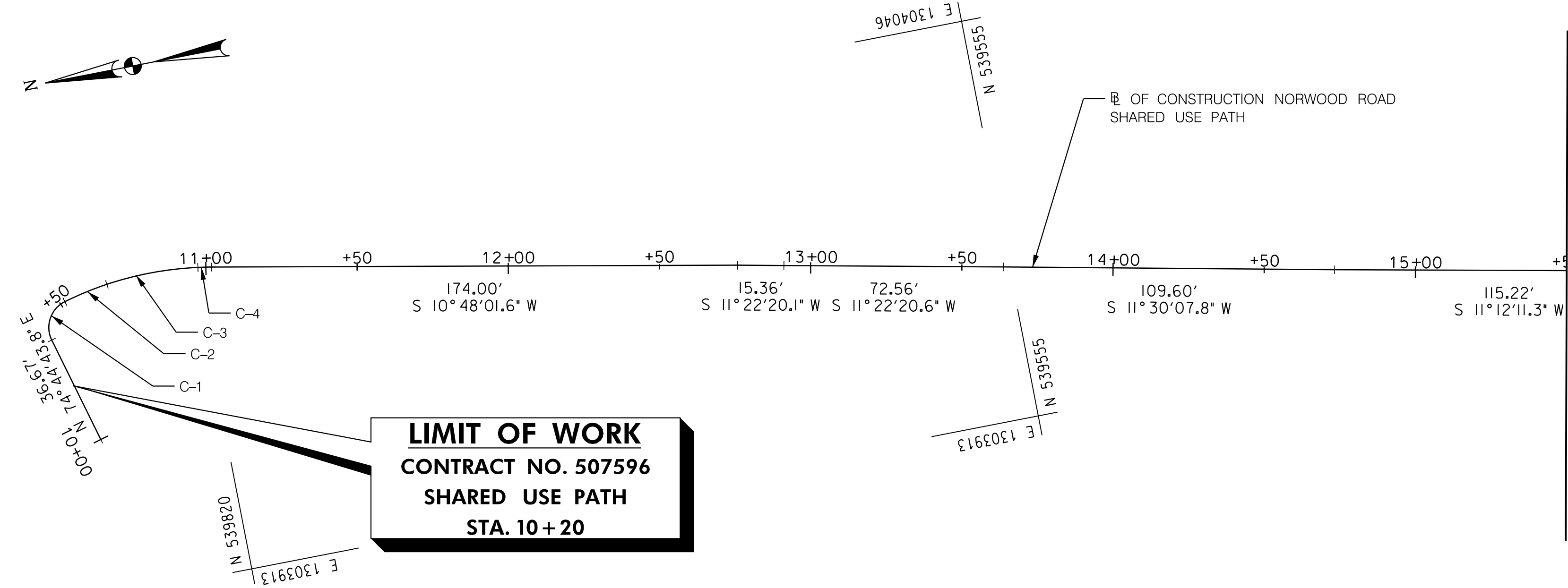


PLOTTER: 44x68  
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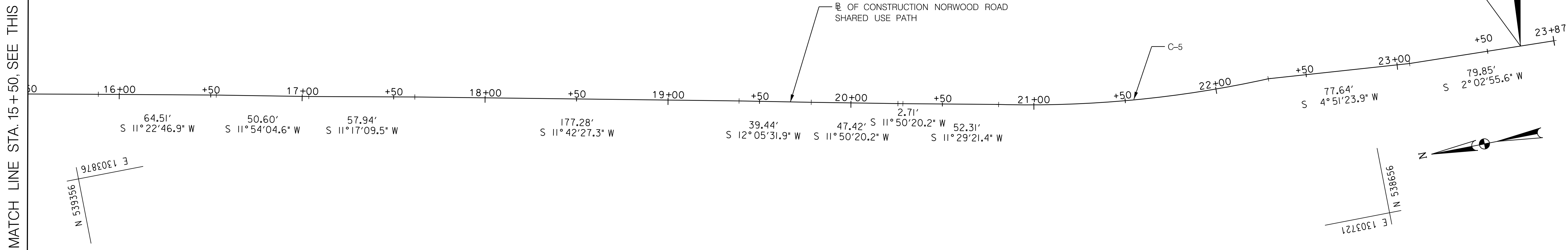
CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C-1	90°00'00.00" RT	603°06'55.34"	9.50	9.50	14.9225	3.9350
C-2	7°50'48.07" RT	52°05'13.51"	110.00	7.5441	15.0646	0.2584
C-3	15°58'57.28" RT	52°05'13.51"	110.00	15.4424	30.6843	1.0787
C-4	2°19'07.27" RT	52°05'13.51"	110.00	2.2261	4.4516	0.0225
C-5	14°00'57.23" LT	9°26'23.50"	606.96	74.6103	148.4757	4.5686

MATCH LINE STA. 15+50, SEE THIS SHEET



MATCH LINE STA. 15+50, SEE THIS SHEET

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
		BASELINE OF CONSTRUCTION	SANDY SPRING	BIKE PATH	
C-1	POB	10+00.00	539860.8066	1303964.5451	N 74°44'43.77" E
	PC	10+36.67	539870.4539	1303999.9199	
	PI	10+46.17	539872.9534	1304009.0852	
C-2	PCC	10+51.59	539863.7941	1304011.5829	S 15°15'16.2274" E
	PI	10+59.13	539856.5191	1304013.5796	
C-3	PCC	10+66.65	539849.0396	1304014.5644	S 7°30'02.9937" E
	PI	10+82.10	539833.7293	1304016.5803	
C-4	PCC	10+97.34	539818.4557	1304014.3026	S 8°28'54.2865" W
	PI	10+99.56	539816.254	1304013.9743	
	PT	11+01.79	539814.0673	1304013.5571	S 10°48'01.5614" W
	PT	12+75.79	539643.154	1303980.9523	
	PT	12+91.14	539628.0995	1303977.9244	S 11°22'20.1460" W
	PT	13+63.70	539556.9678	1303963.6174	S 11°22'20.5893" W
	PT	14+73.30	539449.5692	1303941.7627	S 11°30'07.7957" W
	PT	15+88.52	539336.543	1303919.3764	S 11°12'11.3239" W
	PT	16+53.03	539273.3023	1303906.6482	S 11°22'46.8651" W
	PT	17+03.63	539223.7891	1303896.213	S 11°54'04.6417" W
	PT	17+61.57	539166.9657	1303884.873	S 11°17'09.4693" W
	PT	19+38.85	538993.374	1303848.8999	S 11°42'27.3455" W
	PT	19+78.29	538954.8138	1303840.6388	S 12°05'31.8955" W
	PT	20+25.71	538908.4044	1303830.9105	S 11°50'20.1904" W
	PT	20+28.41	538905.7546	1303830.355	S 11°50'20.1904" W
C-5	PC	20+80.73	538854.4896	1303819.935	S 11°29'21.3574" W
	PI	21+55.34	538781.6667	1303803.7018	
	PT	22+29.20	538707.0803	1303805.589	S 4°51'23.8536" W
	PT	23+06.85	538629.7156	1303799.0155	
	POE	23+86.70	538549.9122	1303796.1607	S 2°02'55.5953" W



**LIMIT OF WORK**  
CONTRACT NO. 507596  
SHARED USE PATH  
STA. 23+69

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
_____ Chief, Transportation Planning and Design Section		_____ Date	
APPROVED			
_____ Chief, Division of Transportation Engineering		_____ Date	
DESIGNED BY <u>RA</u>		DRAWN BY <u>NL</u>	
		CHECKED BY <u>MWM</u>	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
NORWOOD ROAD SHARED USE PATH	
GEOMETRIC SHEET	
SCALE 1"=30'	DATE APRIL, 2025
SHEET NO. 5 OF 28	

PROJECT: 442025  
FILE: \\mcs\mcs\mcs\mcs\data\1\Projects\9808\9808.04\_Sandy\_Spring\_Blkways\05\_Roadway\CADD\DWG-P01\_Norwood.dgn



LEGEND

- CONCRETE DRIVEWAY
- ASPHALT SHARED USE PATH
- GRASS BUFFER
- CLASS I RIPRAP
- DETECTABLE WARNING SURFACE
- PERMEABLE PAVEMENT
- MILL AND OVERLAY
- CUT/FILL LINE
- PROPOSED LIGHT POLE
- EX. RIGHT OF WAY OR PROPERTY LINE
- PROPOSED RIGHT OF WAY
- EASEMENT

**LIMIT OF WORK**  
**CONTRACT NO. 507596**  
**SHARED USE PATH**  
**STA. 10+21**

TYPE A CURB ANY HEIGHT OR DEPTH		
18	LF	NORWOOD ROAD - STA. 10+21
6	LF	NORWOOD ROAD - STA. 10+49
6	LF	NORWOOD ROAD - STA. 10+56

TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH (STD MC-100.01)		
102	LF	NORWOOD ROAD - STA. 10+21 TO STA. 10+97, LT
45	LF	NORWOOD ROAD - STA. 10+50, OFFSET 82' LT TO STA. 10+52, OFFSET 47' LT
409	LF	NORWOOD ROAD - STA. 12+91 TO STA. 17+00, LT

PERVIOUS PAVEMENT		
81	SF	NORWOOD ROAD - STA. 10+51, OFFSET 82' LT TO STA. 10+51, OFFSET 65' LT
91	SF	NORWOOD ROAD - STA. 10+52, OFFSET 59' LT TO STA. 10+62, OFFSET 51' LT
127	SF	NORWOOD ROAD - STA. 10+37 TO STA. 10+49, LT
1833	SF	NORWOOD ROAD - STA. 10+56 TO STA. 12+39, LT

SHARED USE PATH PLAN  
SCALE: 1" = 30'

4 INCH CONCRETE SIDEWALK (STD MC-112.01)		
41	SF	NORWOOD ROAD - STA. 10+51, OFFSET 65' LT TO STA. 10+52, OFFSET 59' LT
210	SF	NORWOOD ROAD - STA. 10+22 TO STA. 10+37, LT
97	SF	NORWOOD ROAD - STA. 10+49 TO STA. 10+56, LT

2" ASPHALT MILL AND OVERLAY		
1827	SY	NORWOOD ROAD - STA. 10+41 TO 17+00

7 INCH CONCRETE SIDEWALK (STD MC-301.01)		
550	SF	NORWOOD ROAD - STA. 12+27 TO STA. 12+79, LT
342	SF	NORWOOD ROAD - STA. 13+25 TO STA. 13+55, LT
188	SF	NORWOOD ROAD - STA. 13+90 TO STA. 14+10, LT
189	SF	NORWOOD ROAD - STA. 14+52 TO STA. 14+72, LT
335	SF	NORWOOD ROAD - STA. 15+57 TO STA. 15+86, LT
360	SF	NORWOOD ROAD - STA. 16+26 TO STA. 16+56, LT

ASPHALT SHARED USE PATH		
622	SF	NORWOOD ROAD - STA. 12+68 TO STA. 13+30, LT
453	SF	NORWOOD ROAD - STA. 13+50 TO STA. 13+95, LT
525	SF	NORWOOD ROAD - STA. 14+05 TO STA. 14+57, LT
943	SF	NORWOOD ROAD - STA. 14+67 TO STA. 15+62, LT
505	SF	NORWOOD ROAD - STA. 15+81 TO STA. 16+31, LT
482	SF	NORWOOD ROAD - STA. 16+52 TO STA. 17+00, LT

30' 0 30' 60'  
SCALE: 1" = 30'

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH	
				Chief, Transportation Planning and Design Section		SHARED USE PATH PLAN	
				APPROVED		SCALE 1"=30' DATE APRIL, 2025	
				Chief, Division of Transportation Engineering		SHEET NO. 6 OF 28	
				DESIGNED BY RA DRAWN BY NL CHECKED BY MWM			
NO.	REVISION	DATE	BY				

PLOTTER: 4/20/25  
 FILE: \\mccormack\mccormack\_data\1\Projects\1908\1908.04\_Sand\_Spring\_Bloway\05\_Roadway\CADD\MD-P02\_Norwood.dgn



LEGEND

- CONCRETE DRIVEWAY
- ASPHALT SHARED USE PATH
- GRASS BUFFER
- CLASS I RIPRAP
- DETECTABLE WARNING SURFACE
- MILL AND OVERLAY
- CUT/FILL LINE
- PROPOSED LIGHT POLE
- EX. RIGHT OF WAY OR PROPERTY LINE
- PROPOSED RIGHT OF WAY
- EASEMENT

SHARED USE PATH PLAN  
 SCALE: 1" = 30'

TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH		
326	LF	NORWOOD ROAD - STA. 17+00 TO STA. 20+26, LT
43	LF	NORWOOD ROAD - STA. 23+34 TO STA. 23+70, LT

4 INCH CONCRETE SIDEWALK (STD MC-112.01)		
429	SF	NORWOOD ROAD - STA. 23+42 TO STA. 23+68, LT

ASPHALT SHARED USE PATH		
405	SF	NORWOOD ROAD - STA. 17+00 TO STA. 17+40, LT
1376	SF	NORWOOD ROAD - STA. 17+54 TO STA. 18+92, LT
541	SF	NORWOOD ROAD - STA. 19+17 TO STA. 19+71, LT
3513	SF	NORWOOD ROAD - STA. 19+90 TO STA. 23+42, LT

7 INCH CONCRETE SIDEWALK (STD MC-301.01)		
249	SF	NORWOOD ROAD - STA. 17+35 TO STA. 17+59, LT
438	SF	NORWOOD ROAD - STA. 18+87 TO STA. 19+22, LT
332	SF	NORWOOD ROAD - STA. 19+66 TO STA. 19+95, LT

2" ASPHALT MILL AND OVERLAY		
1905	SY	NORWOOD ROAD - STA. 17+00 TO 23+69

NO.	REVISION	DATE	BY

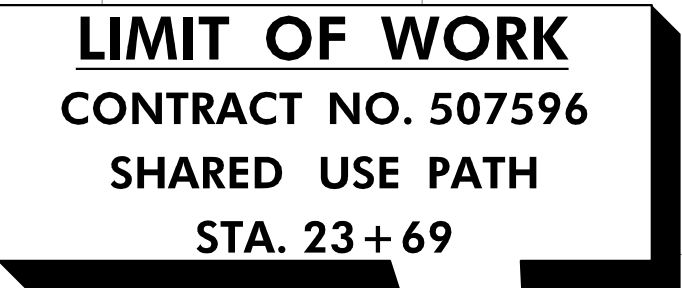
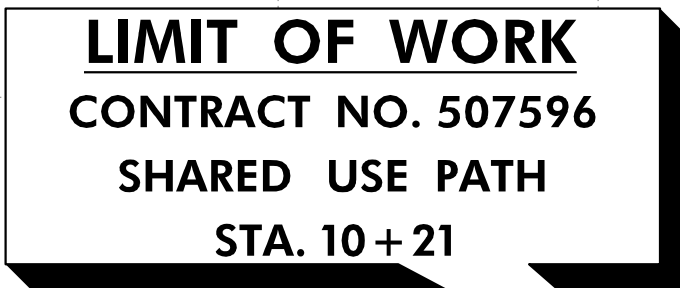
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Transportation Planning and Design Section	_____	Date _____
APPROVED		
Chief, Division of Transportation Engineering	_____	Date _____
DESIGNED BY <u>RA</u>	DRAWN BY <u>NL</u>	CHECKED BY <u>MWM</u>

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING		
NORWOOD ROAD SHARED USE PATH		
SHARED USE PATH PLAN		
SCALE <u>1"=30'</u>	DATE <u>APRIL, 2025</u>	
		SHEET NO. <u>7</u> OF <u>28</u>

MATCH LINE STA. 17+00, SEE SHEET 6

LIMIT OF WORK  
 CONTRACT NO. 507596  
 SHARED USE PATH  
 STA. 23+70





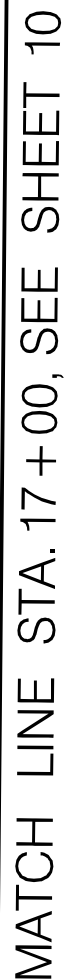
30' 0 30' 60'

SCALE: 1" = 30'



					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	NORWOOD ROAD SHARED USE PATH
					RECOMMENDED FOR APPROVAL		
					_____ Chief, Transportation Planning and Design Section APPROVED	_____ Date	
					_____ Chief, Division of Transportation Engineering	_____ Date	
					DESIGNED BY <u>_KBJ_</u>	DRAWN BY <u>_KBJ_</u>	CHECKED BY <u>_XXX_</u>
NO.	REVISION	DATE	BY				SHEET NO. <u>8</u> OF <u>28</u>



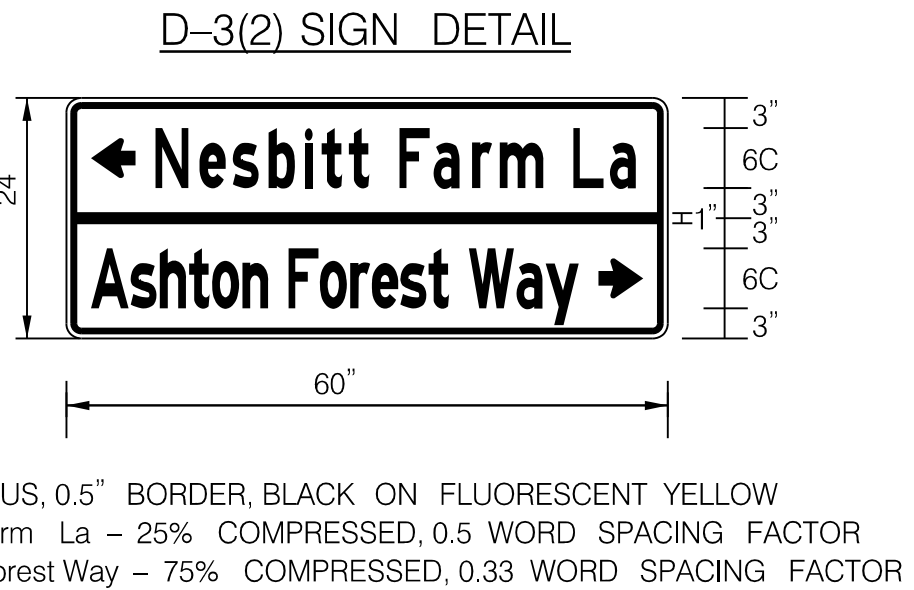
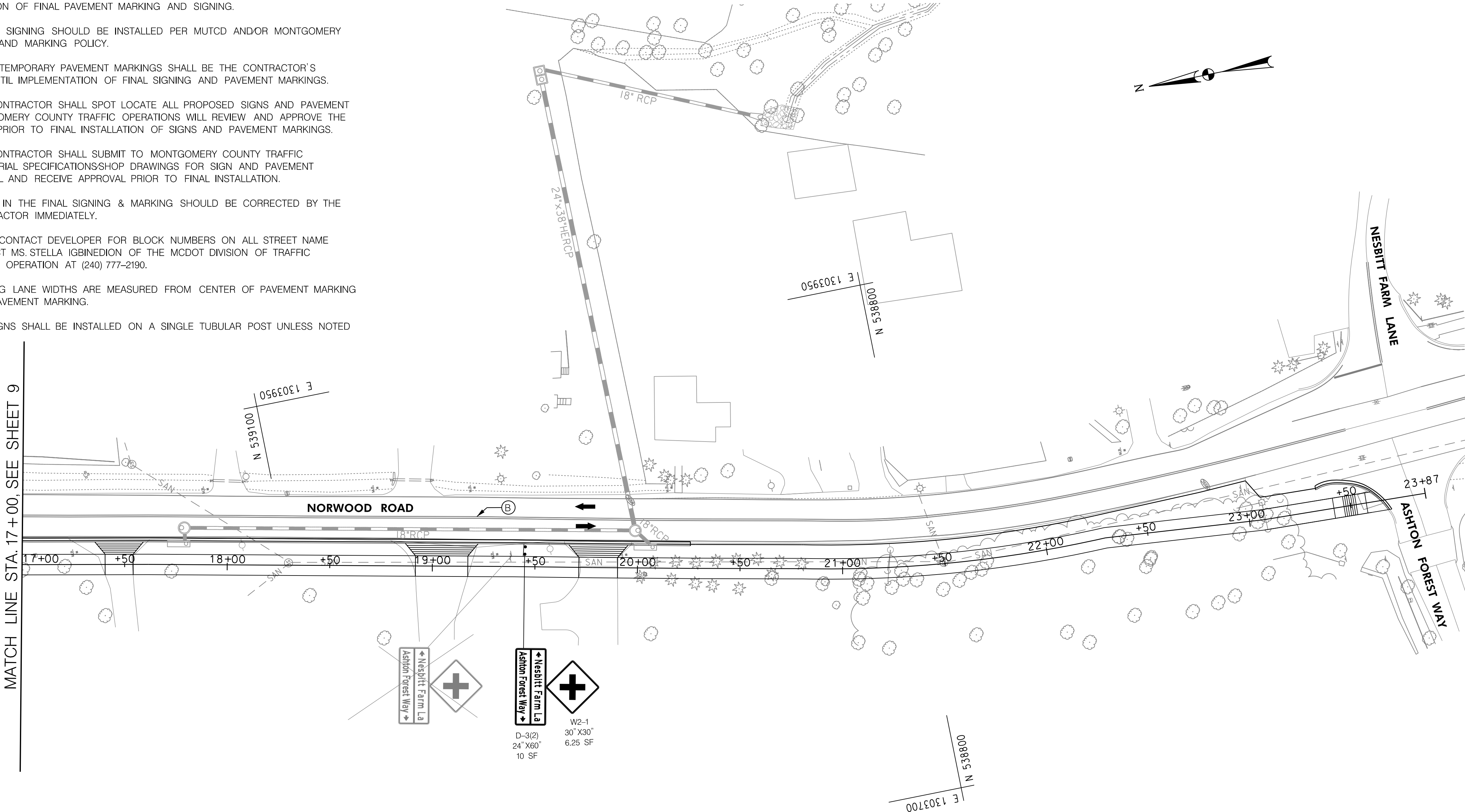


1. ALL SCHOOL ZONE RELATED SIGNING AND SCHOOL CROSSWALK SHALL BE FABRICATED WITH FLUORESCENT YELLOW GREEN SHEETING (FYG = FLUORESCENT YELLOW GREEN).
2. ALL NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. ALL PAVEMENT MARKINGS AND SIGNS TO BE INSTALLED BY THE DEVELOPER/CONTRACTOR.
4. CONTRACTOR TO CONTACT MR. MARK TERRY OF THE MCDOT DIVISION OF TRAFFIC ENGINEERING AND OPERATION AT (240) 777-2190 NO LESS THAN 10 BUSINESS DAYS PRIOR TO IMPLEMENTATION OF FINAL PAVEMENT MARKING AND SIGNING.
5. ALL MARKING AND SIGNING SHOULD BE INSTALLED PER MUTCD AND/OR MONTGOMERY COUNTY SIGNING AND MARKING POLICY.
6. MAINTENANCE OF TEMPORARY PAVEMENT MARKINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY UNTIL IMPLEMENTATION OF FINAL SIGNING AND PAVEMENT MARKINGS.
7. THE DEVELOPER/CONTRACTOR SHALL SPOT LOCATE ALL PROPOSED SIGNS AND PAVEMENT MARKINGS. MONTGOMERY COUNTY TRAFFIC OPERATIONS WILL REVIEW AND APPROVE THE SPOT LOCATIONS PRIOR TO FINAL INSTALLATION OF SIGNS AND PAVEMENT MARKINGS.
8. THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO MONTGOMERY COUNTY TRAFFIC OPERATIONS MATERIAL SPECIFICATIONS/SHOP DRAWINGS FOR SIGN AND PAVEMENT MARKING MATERIAL AND RECEIVE APPROVAL PRIOR TO FINAL INSTALLATION.
9. ANY DISCREPANCY IN THE FINAL SIGNING & MARKING SHOULD BE CORRECTED BY THE DEVELOPER/CONTRACTOR IMMEDIATELY.
10. CONTRACTOR TO CONTACT DEVELOPER FOR BLOCK NUMBERS ON ALL STREET NAME SIGNS, OR CONTACT MS. STELLA IGBINEDION OF THE MCDOT DIVISION OF TRAFFIC ENGINEERING AND OPERATION AT (240) 777-2190.
11. PAVEMENT MARKING LANE WIDTHS ARE MEASURED FROM CENTER OF PAVEMENT MARKING TO CENTER OF PAVEMENT MARKING.
12. ALL PROPOSED SIGNS SHALL BE INSTALLED ON A SINGLE TUBULAR POST UNLESS NOTED OTHERWISE.
13. CONTRACTOR SHALL REMOVE EXISTING SIGN, STORE, AND REINSTALL IN THE PROPOSED LOCATION AS SHOWN.

					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	NORWOOD ROAD SHARED USE PATH
					RECOMMENDED FOR APPROVAL		
					_____ Chief, Transportation Planning and Design Section APPROVED	_____ Date	
					_____ Chief, Division of Transportation Engineering	_____ Date	SIGNING AND MARKING PLAN
						SCALE 1"=30'	DATE APRIL, 2025
NO.	REVISION	DATE	BY		DESIGNED BY <u>RA</u>	DRAWN BY <u>NL</u>	CHECKED BY <u>MMW</u>
							SHEET NO. <u>9</u> OF <u>28</u>

SIGNING AND PAVEMENT MARKING NOTES:

1. ALL SCHOOL ZONE RELATED SIGNING AND SCHOOL CROSSWALK SHALL BE FABRICATED WITH FLUORESCENT YELLOW GREEN SHEETING (FYG = FLUORESCENT YELLOW GREEN).
2. ALL NEW PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. ALL PAVEMENT MARKINGS AND SIGNS TO BE INSTALLED BY THE DEVELOPER/CONTRACTOR.
4. CONTRACTOR TO CONTACT MR. MARK TERRY OF THE MCDOT DIVISION OF TRAFFIC ENGINEERING AND OPERATION AT (240) 777-2190 NO LESS THAN 10 BUSINESS DAYS PRIOR TO IMPLEMENTATION OF FINAL PAVEMENT MARKING AND SIGNING.
5. ALL MARKING AND SIGNING SHOULD BE INSTALLED PER MUTCD AND/OR MONTGOMERY COUNTY SIGNING AND MARKING POLICY.
6. MAINTENANCE OF TEMPORARY PAVEMENT MARKINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY UNTIL IMPLEMENTATION OF FINAL SIGNING AND PAVEMENT MARKINGS.
7. THE DEVELOPER/CONTRACTOR SHALL SPOT LOCATE ALL PROPOSED SIGNS AND PAVEMENT MARKINGS. MONTGOMERY COUNTY TRAFFIC OPERATIONS WILL REVIEW AND APPROVE THE SPOT LOCATIONS PRIOR TO FINAL INSTALLATION OF SIGNS AND PAVEMENT MARKINGS.
8. THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO MONTGOMERY COUNTY TRAFFIC OPERATIONS MATERIAL SPECIFICATIONSSHOP DRAWINGS FOR SIGN AND PAVEMENT MARKING MATERIAL AND RECEIVE APPROVAL PRIOR TO FINAL INSTALLATION.
9. ANY DISCREPANCY IN THE FINAL SIGNING & MARKING SHOULD BE CORRECTED BY THE DEVELOPER/CONTRACTOR IMMEDIATELY.
10. CONTRACTOR TO CONTACT DEVELOPER FOR BLOCK NUMBERS ON ALL STREET NAME SIGNS, OR CONTACT MS. STELLA IGBINEDION OF THE MCDOT DIVISION OF TRAFFIC ENGINEERING AND OPERATION AT (240) 777-2190.
11. PAVEMENT MARKING LANE WIDTHS ARE MEASURED FROM CENTER OF PAVEMENT MARKING TO CENTER OF PAVEMENT MARKING.
12. ALL PROPOSED SIGNS SHALL BE INSTALLED ON A SINGLE TUBULAR POST UNLESS NOTED OTHERWISE.



LEGEND	
(A)	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (SOLID)
(B)	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS (DOUBLE SOLID)
	PROPOSED SIGN AND SUPPORT
	EXISTING SIGN AND SUPPORT



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I. TRAFFIC CONTROL PLAN GENERAL REQUIREMENTS

- A. A PRIME REQUIREMENT OF THIS CONTRACT IS THAT TWO (2) WAY TRAFFIC BE MAINTAINED AT ALL TIMES ALONG NORWOOD ROAD, IN AN ORDERLY, EXPEDITIOUS AND SAFE MANNER UNLESS OTHERWISE NOTED IN THE PLANS. FLAGGER CONTROL SHALL BE UTILIZED AS A METHOD OF MAINTAINING ONE LANE TWO WAY TRAFFIC DURING WORKING HOURS.THE WIDTH OF ANY LANE SHALL REMAIN AT LEAST A MINIMUM OF NINE (9) FEET WIDE DURING NON-WORKING HOURS.
- B. UNLESS OTHERWISE APPROVED BY THE TRAFFIC ENGINEERING AND OPERATIONS SECTION,THE NUMBER OF LANES OF TRAFFIC ON NORWOOD ROAD SHOWN ON THE T.C.P. SHALL BE MAINTAINED DURING NON-WORKING HOURS.
- C. THE SEQUENCE OF OPERATIONS OF THE CONSTRUCTION REFERS SPECIFICALLY TO THE CRITICAL ITEMS OF WORK WHICH MUST BE COMPLETED.THE LISTED ITEMS ARE A SUGGESTED SEQUENCE OF WORK TO BE FOLLOWED TO PROVIDE FOR ORDERLY COMPLETION OF WORK.THE MANY OTHER ITEMS OF WORK WHICH ARE NOT LISTED AND WHICH MAY BE PERFORMED WITHOUT INTERRUPTING TRAFFIC OR AFFECTING THE CONSTRUCTION SCHEDULING AND DO NOT CONTROL THE OVERALL SCHEDULE FOR COMPLETING THE PROJECT ARE NOT LISTED.
- D. ALL SIDEWALK CLOSURES SHALL REQUIRE THE APPROVAL OF DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS,ANY SIDEWALK CLOSURE GREATER THAN TWO (2) WEEKS SHALL REQUIRE THE SUBMITTAL OF A WRITTEN REQUEST TO THE DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AND MAY REQUIRE ADDITIONAL TRAFFIC CONTROLS.SIDEWALK CLOSURES SHALL BE LIMITED TO OCCUR ONLY DURING THE ACTUAL WORK ACTIVITY.DURING CLOSURE,SIDEWALKS SHALL BE BARRICADED TO PHYSICALLY PREVENT PEDESTRIAN PASSAGE AND APPROPRIATE DETOURS SHALL BE POSTED.DURING ALL OTHER TIMES,PROVISIONS FOR SAFE PEDESTRIAN ACCESS THROUGH THE WORK AREA,VIA A TEMPORARY WALKWAY SHALL BE PROVIDED.
- E. ANY WORK WITHIN THE TRAVELED PORTION OF THE ROADWAY WILL BE RESTRICTED TO THE HOURS OF 9:00 A.M.TO 3:30 P.M.,MONDAY THRU FRIDAY. NO WORK ON HOLIDAYS OR WEEKENDS UNLESS WRITTEN EXCEPTION IS GRANTED IN WRITING BY THE COUNTY'S DPS INSPECTOR.
- F. CONSTRUCTION ACTIVITY,LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.
- G. EXCLUSIVE OF EMERGENCY WORK,THE CONTRACTOR SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION.A MINIMUM OF 24 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.
- H. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER.HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- I. IF ANY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MDOT SHA ROADWAY,OR WITHIN THE LIMITS OF AN INCORPORATED AREAS,THE PERMITTEE SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.
- J. NO HAZARDOUS MATERIALS SHALL BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORK PERIODS.ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM EDGE OF OPEN SECTION ROADWAY.
- K. ANY EXCAVATION(S) IN THE ROADWAY SHALL BE PAVED TO LEVEL GRADE OR PLATED AND THE ROADWAY REOPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORK DAY." STEEL PLATES AHEAD" (W21-9) SIGNS SHALL BE PLACED APPROXIMATELY 250 FEET IN ADVANCE OF ANY STEEL PLATE.ANY EXCAVATIONS IN THE SIDEWALK SHALL BE BACKFILLED OR PLATED PRIOR TO THE END OF EACH WORKDAY AND SIDEWALK REOPENED TO ITS FULL CROSS SECTION.

- L. TRAFFIC SHALL NOT BE PERMITTED WITHIN TEN (10) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS PROTECTED BY TEMPORARY CONCRETE BARRIERS OR RAMPED WITH AGGREGATE MATERIAL AT A 3:1 OR FLATTER SLOPE FROM THE EDGE OF PAVEMENT.WHEN RAMPING IS UTILIZED,TTC DRUMS SHALL BE POSITIONED ADJACENT TO THE EDGE OF THE WORK AREA ON THE TRAFFIC SIDE OF THE SLOPE.REFER TO MCDOT STD NO. TCP-108.01 FOR DETAILS.
- M. TRAFFIC SHALL NOT BE PERMITTED WITHIN TWO (2) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN TWO (2) INCHES BUT NO MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS EITHER RAMPED WITH AGGREGATE MATERIAL AT 3:1 OR FLATTER SLOPE,PROVIDED WITH AN ABUTTING WEDGE OF BITUMINOUS MATERIAL AT 3:1 OR FLATTER SLOPE OR PROTECTED BY TRAFFIC DRUMS.
- N. IN AREAS WHERE A DROP-OFF IN THE LEVEL OF PAVEMENT IS TWO (2) INCHES OR LESS,TRAFFIC MAY BE ALLOWED TO FREELY CROSS UNDER THE FOLLOWING CONDITIONS:
1. WHERE LONGITUDINAL PAVING JOINTS OF TWO (2) INCHES OR LESS ARE EXPOSED TO TRAFFIC,WARNING SIGNS SHALL BE POSTED INDICATING "UNEVEN PAVEMENT" (W8-II MOD.).THESE SIGNS SHOULD BE PLACED 250 FEET IN ADVANCE OF THE UNEVEN JOINT AND BE SPACED AT APPROPRIATE INTERVALS THROUGHOUT THE AREA OF THE UNEVEN JOINT.

2. WHERE LATERAL PAVING JOINTS OF TWO (2) INCHES OR LESS ARE EXPOSED TO TRAFFIC,A \*BUMP\* (W8-I) SIGN SHALL BE POSTED 100 FEET IN ADVANCE OF THE JOINT.

3. WHEN MILLED PAVEMENT IS LEFT EXPOSED TO TRAFFIC,A \*ROUGH ROAD (W8-8) OR \*GROOVED PAVEMENT\* (W8-8A) SIGN SHALL BE PLACED 250 FEET IN ADVANCE OF THE MILLED AREA.
- O. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FLUORESCENT ORANGE HIGH PERFORMANCE WIDE ANGLE RETROREFLECTIVE SHEETING.PLACEMENT OF ALL SIGNS SHALL NOT INTERFERE WITH TRAVELED WAYS OR SIGHT DISTANCES OF ANY ROADWAY,STREET OR DRIVEWAY AS PER AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS,LATEST EDITION.
- P. ALL EXISTING TRAFFIC CONTROL DEVICES THAT MUST BE REMOVED SHALL BE REPLACED IN THEIR PROPER LOCATION PRIOR TO THE COMPLETION OF THE PROJECT.COST FOR THE REPLACEMENT AND/OR REPAIR OF DEVICES DAMAGED AS A RESULT OF THE PROJECT SHALL BE ASSESSED TO THE CONTRACTOR.
- Q. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- R. THE IMPLEMENTATION DATE AND CONTINUANCE OF THIS PROJECT MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.
- S. AT THE COMPLETION OF THE PERMITTED WORK ACTIVITY,CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE WHICH EXISTED PRIOR TO THE WORK ACTIVITY.
- T. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY TRAFFIC CONTROL DEVICES AT THE SITE.
- U. ANY CHANGES TO TEMPORARY TRAFFIC CONTROL PLANS SHALL BE MADE IN WRITING AND APPROVED BY THE MONTGOMERY COUNTY TRAFFIC ENGINEERING AND OPERATIONS DIVISION.
- V. ALL TTC DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED.WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME,TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.

II. SPECIFIC TRAFFIC CONTROL REQUIREMENTS

A. MAINTENANCE OF TRAFFIC

1. FLAGGERS SHALL BE USED AT THE DIRECTION OF THE COUNTY INSPECTOR.
2. FLAGGERS SHALL USE STOP/SLOW PADDLES TO DIRECT TRAFFIC.
3. FLAGGERS SHALL BE MARYLAND STATE HIGHWAY ADMINISTRATION OR AATS4 APPROVED FLAGGERS.
4. RADIO COMMUNICATION SHALL BE REQUIRED BETWEEN FLAGGERS AT THE DISCRETION OF THE COUNTY INSPECTOR OR UNDER THE FOLLOWING CONDITIONS:

a. IF THE FLAGGERS CANNOT SEE EACH OTHER.

b. IF THE LANE CLOSURE EXCEEDS 200 FEET.
5. AT LEAST ONE 10 FOOT TRAVEL LANE SHALL BE AVAILABLE FOR TRAFFIC AT ALL TIMES.
6. PROVISION SHALL BE MADE FOR SAFE MAINTENANCE OF PEDESTRIAN AND BICYCLE TRAFFIC,SUBJECT TO THE APPROVAL OF THE COUNTY'S DPS INSPECTOR.

B. INSTALLATION OF TRAFFIC CONTROL DEVICES

1. SIGNAGE,TRAFFIC DRUMS,AND ARROW PANELS SHALL BE PLACED IN ACCORDANCE WITH THE APPROPRIATE TYPICAL SPACING CHART AND AS LISTED ON THE TRAFFIC CONTROL PLANS.
2. ALL SIGNS AND TRAFFIC DRUMS SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD.
3. ALL WARNING SIGNS,UNLESS OTHERWISE SPECIFIED,SHALL BE A MINIMUM OF 48 " X 48",BLACK SYMBOL OR LEGEND ON ORANGE BACKGROUND AND DIAMOND SHAPED.PLACEMENT OF ALL SIGNS SHALL NOT INTERFERE WITH TRAVELED WAYS OR SIGHT DISTANCES OF ANY ROADWAY,STREET OR DRIVEWAY AS PER AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS,LATEST EDITION.ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED OR COVERED DURING NON-APPLICABLE PERIODS.
4. VARIABLE MESSAGE SIGNS (IF REQUIRED) SHALL BE PROVIDED TWO WEEKS BEFOREAFTER AND DURING CONSTRUCTION.LOCATION AND MESSAGE TO BE DETERMINED BY ENGINEER.
5. DURING NIGHTTIME OPERATIONS,REFLECTORIZED TRAFFIC DRUMS SHOULD BE USED.HOWEVER,FOR EMERGENCY WORK ACTIVITIES,WHERE TRAFFIC DRUMS ARE NOT READILY AVAILABLE, REFLECTORIZED TRAFFIC CONES THAT ARE A MINIMUM OF TWENTY EIGHT (28) INCHES IN HEIGHT AND HAVING SIX (6) INCH AND FOUR (4) INCH REFLECTIVE COLLARS WITHIN THE TOP SIXTEEN (16) INCHES OF THE CONE MAY BE USED.ALL WORK AREAS LEFT UNATTENDED AT NIGHT SHALL BE DELINEATED WITH REFLECTORIZED TRAFFIC DRUMS.
6. CONTRACTOR SHALL EXCAVATE ONLY AS MUCH AS IS TO BE WORKED IN A DAY.IN CASE ANY EXCAVATED AREA IS LEFT OVERNIGHT,TEMPORARY CONCRETE BARRIERS SHALL BE PLACED SURROUNDING THAT AREA.
7. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF ONE (1) FOOT ABOVE THE LEVEL OF THE ROADWAY,WITH HIGHER MOUNTING HEIGHTS DESIRABLE.
8. WHEN PAVEMENT MARKINGS HAVE BEEN OBLITERATED BY THE WORK ACTIVITY, THE PERMITTEE SHALL INSTALL ANY CRITICAL INTERIM PAVEMENT MARKINGS PRIOR TO THE END OF THE WORK DAY AS SPECIFIED BY THE COUNTY'S DPS INSPECTOR AND/OR THE DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS.

a. ON ROAD SECTIONS THAT ARE NOT SCHEDULED TO BE OVERLAID,ALL TEMPORARY PAVEMENT MARKINGS SHALL BE (REMOVABLE) DETOUR GRADE MARKING TAPE.ANY CONFLICTING MARKINGS WHICH NEED TO BE TEMPORARILY REMOVED ARE TO BE MASKED USING "3M REMOVABLE BLACK LANE MASK" OR AN APPROVED EQUAL.

III. CONTACT INFORMATION

- A. CONTACT THE MCDOT TRANSPORTATION MANAGEMENT CENTER 240-777-2100 BETWEEN 5:00 AM AND 11:00 PM TO INFORM THEM OF TEMPORARY LANE CLOSURES IN THE VICINITY OF ANY TRAFFIC SIGNALS.
- B. CONTACT TRAFFIC ENGINEERING DESIGN AND OPERATIONS SECTION AT 240-777-2190 (A MINIMUM OF ONE WEEK PRIOR) TO COORDINATE ANY MINOR TRAFFIC SIGNAL RELOCATIONS TO FACILITATE THIS WORK ACTIVITY.MAJOR SIGNAL RELOCATIONS SHALL BE COORDINATED A MINIMUM OF THIRTY (30) DAYS IN ADVANCE OF THE PROJECT.THE PERMITTEE SHALL CONTACT THE MONTGOMERY COUNTY TECHNICAL CENTER AT 301-279-1291 A MINIMUM OF 48 HOURS PRIOR TO BEGINNING WORK TO HAVE TRAFFIC SIGNAL EQUIPMENT MARKED.
- C. CONTACT TRAFFIC ENGINEERING STUDIED SECTION AT 240-777-2190 AT LEAST TEN (10) WORKING DAYS IN ADVANCE OF THE FINAL PAVING OPERATION TO SCHEDULE THE INSTALLATION OF PERMANENT PAVEMENT MARKINGS AND SIGNS.
- D. CONTACT MS.STELLA O.IGBINEDION AT 240-777-2190 TO REQUEST ANY FIELD ASSISTANCE BY THE MCDOT DIVISION OF TRAFFIC ENGINEERING AND OPERATION.

SEQUENCE OF CONSTRUCTION

1. GENERAL

DURING CONSTRUCTION,TRAFFIC SHALL BE MAINTAINED ON THE EXISTING ROADWAYS.THE CONSTRUCTION EFFORT SHALL BE DIRECTED TO COMPLETING THE SHARED USE PATH OF THE NORWOOD ROAD AS DESCRIBED BELOW.SIDEWALK RAMPS,INSTALLATION OF TRAFFIC SIGNAL AT THE INTERSECTION OF NORWOOD ROAD AND MD 108,INSTALLATION OF LIGHT POLES ALONG SHARED USE PATH,AND INSTALLATION OF STORM DRAIN SYSTEM.

PRIOR TO THE COMMENCEMENT OF WORK,THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS AS TO THE DURATION OF THE PROPOSED WORK AS SPECIFIED IN THE SPECIAL PROVISIONS.THE CONTRACTOR CAN ALSO INFORM THE OWNER OF ANY EQUIPMENT THAT NEEDS TO BE RELOCATED.

2. SEQUENCE OF CONSTRUCTION

- A. INSTALL ALL TEMPORARY SIGNING AND MARKING REQUIRED FOR THE INITIAL CONSTRUCTION WORK TO BE PERFORMED.
- B. PRIOR TO COMMENCING ANY WORK AT ANY GIVEN LOCATION,THE INSTALLATION OF ALL NECESSARY SEDIMENT CONTROL FACILITIES REQUIRED DURING CONSTRUCTION MUST BE COMPLETED AND HAVE THE APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- C. MAKING USE OF FLAGGING OPERATION AS PER MCDOT TCP-102.02 AND TCP-105.06,MAINTAIN ONE LANE TWO WAY TRAFFIC ON NORWOOD ROAD DURING WORKING HOURS.
- D. CONSTRUCT NORWOOD SHARED USE PATH,RESIDENTIAL DRIVEWAYS,CURB AND GUTTER,AND SIDEWALK RAMPS AS SHOWN ON THE TCP PLANS.ALL CONSTRUCTION ACTIVITY THAT IMPACTS RESIDENTIAL PROPERTY MUST BE COORDINATED WITH THE PROPERTY OWNERS PRIOR TO THE START OF WORK,AND DONE IN ACCORDANCE WITH DIRECTIVES INCLUDED ELSEWHERE IN THE CONTRACT DOCUMENTS.MAKING USE OF FLAGGING OPERATION INSTALL INLETS AND STORM DRAIN SYSTEMS.USE STEEL PLATES AS NEEDED AT THE END OF EACH WORKDAY.
- E. COVER TEMPORARY SIGNS BEING USED DURING WORKING HOURS.
- F. INSTALL TEMPORARY CHANNELIZATION DEVICES AND TEMPORARY TRAFFIC SIGNS AS SHOWN ON THE TCP PLANS AS PER MCDOT TCP- 102.01 OR AS DIRECTED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC DURING NON-WORKING HOURS.
- G. RESTORE FLAGGING OPERATION AND APPLICABLE TEMPORARY SIGNS DURING WORKING HOURS.
- H. AT THE COMPLETION OF WORK,REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.



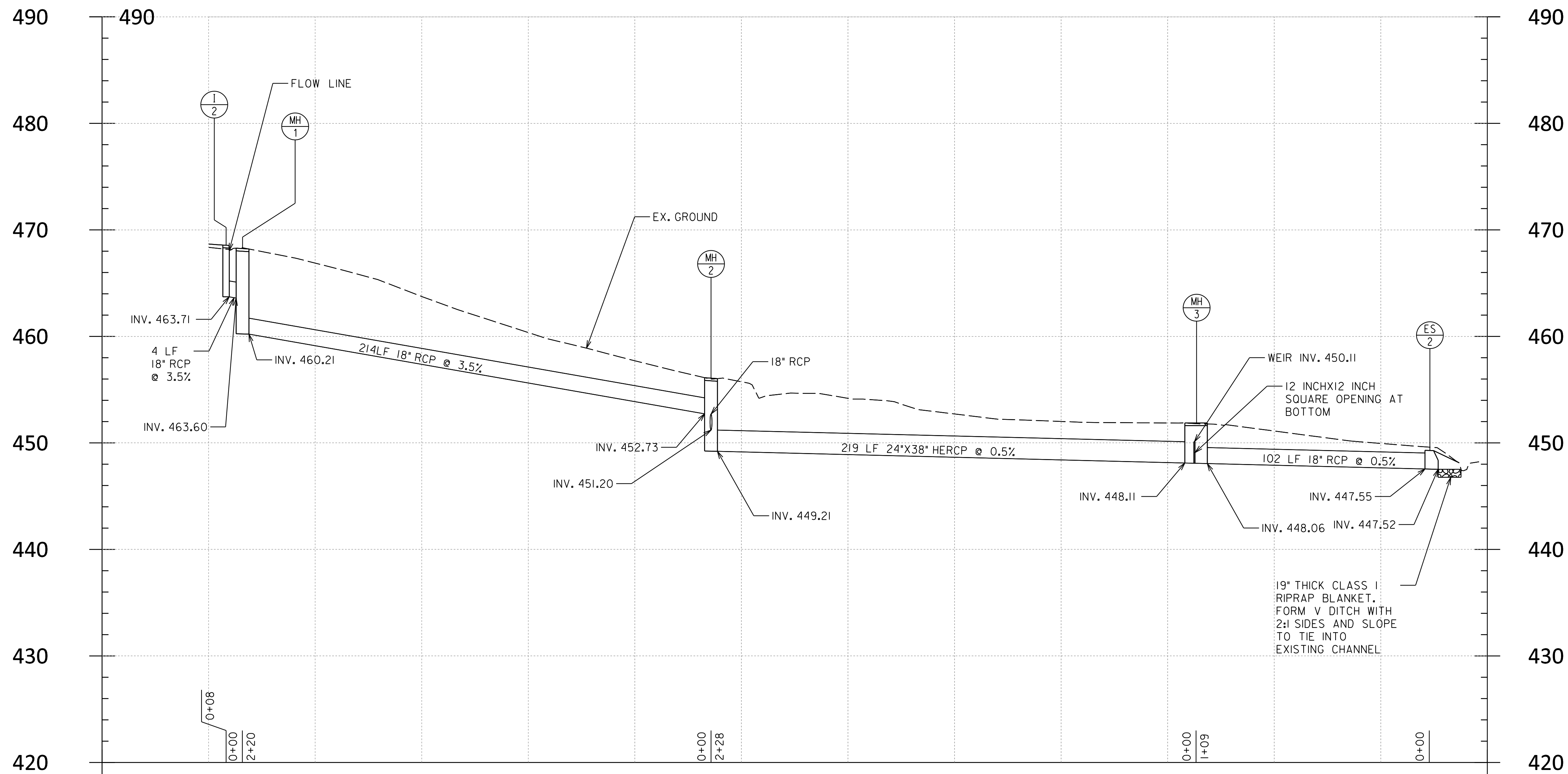
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH	
				Chief, Transportation Planning and Design Section APPROVED		TRAFFIC CONTROL PLAN	
				Chief, Division of Transportation Engineering		SCALE <u>NTS</u> DATE <u>APRIL, 2025</u>	
NO. REVISION DATE BY				DESIGNED BY <u>RA</u> DRAWN BY <u>NL</u> CHECKED BY <u>MWM</u>		SHEET NO. <u>11</u> OF <u>28</u>	











I-2 O ES-2  
SCALE: HORIZ. 1" = 30'  
VERT. 1" = 6'

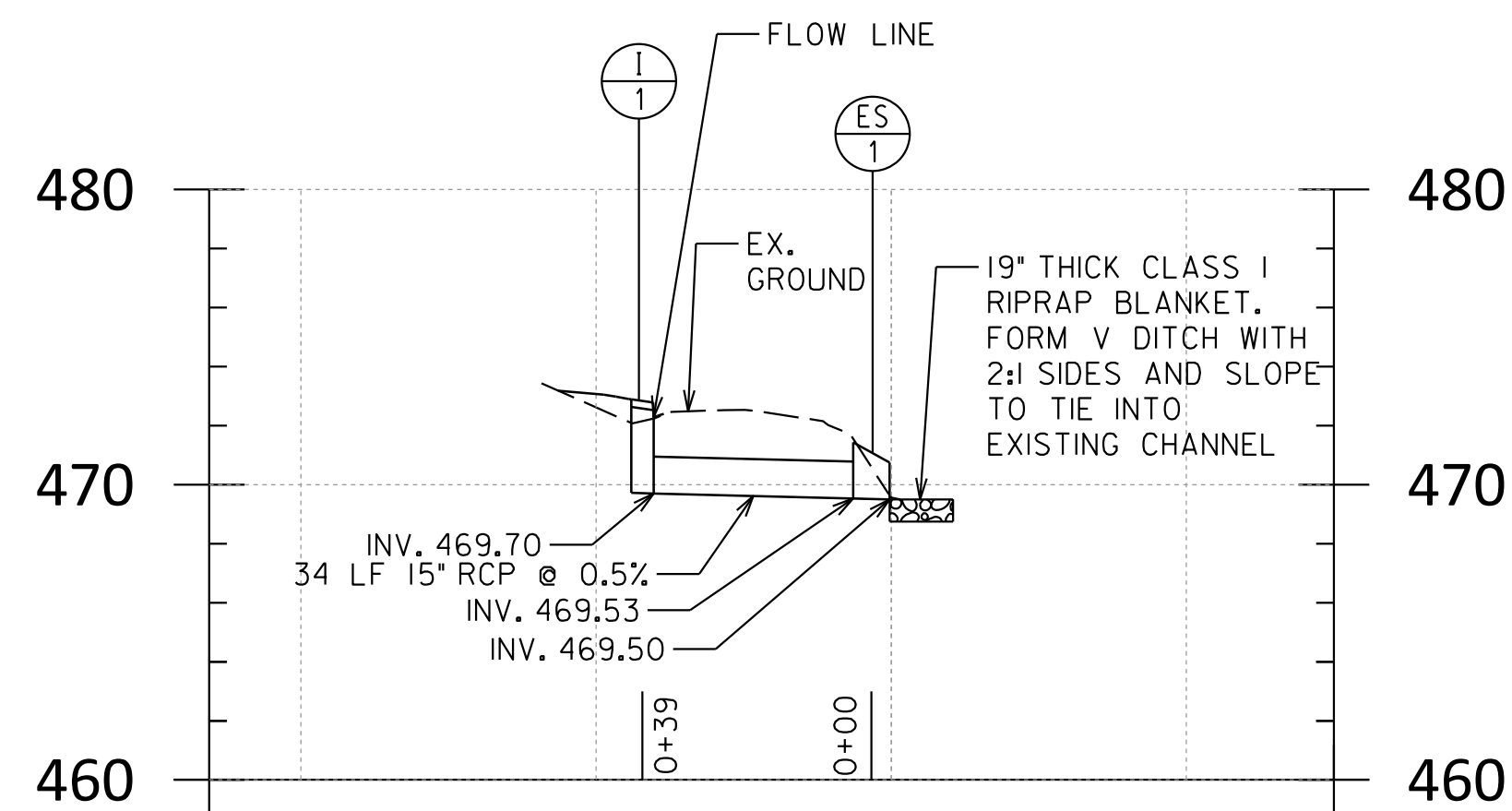
STORM DRAIN STRUCTURE SCHEDULE							
STRUCTURE NO.	STRUCTURE TYPE	STANDARD NO.	NORTHING	EASTING	TOP ELEV.	INV. IN	INV. OUT
I-2	COG-10	MC 501.01	539146.96	1303891.11	468.55		463.71
MH-1	MANHOLE 60 INCH DIA	MD 510.01	539146.29	1303898.88	468.20	463.60	460.21
MH-2	MANHOLE 60 INCH DIA	MD 510.01	538931.04	1303854.25	456.04	452.73	449.21
MH-3	PRECAST BOX	N/A	538932.97	1304080.83	451.77	448.11	448.06
ES-2	END SECTION	MD 368.01	538836.20	1304041.99	449.28	447.55	447.52

STORM DRAIN PIPE SCHEDULE						
FROM	TO	SIZE	MATERIAL	CLASS	LENGTH (FT.)	
I-2	MH-1	18"	RCP	IV	4	
MH-1	MH-2	18"	RCP	IV	214	
MH-2	MH-3	24"X38"	HERCP	IV	219	
MH-3	ES-2	18"	RCP	IV	102	

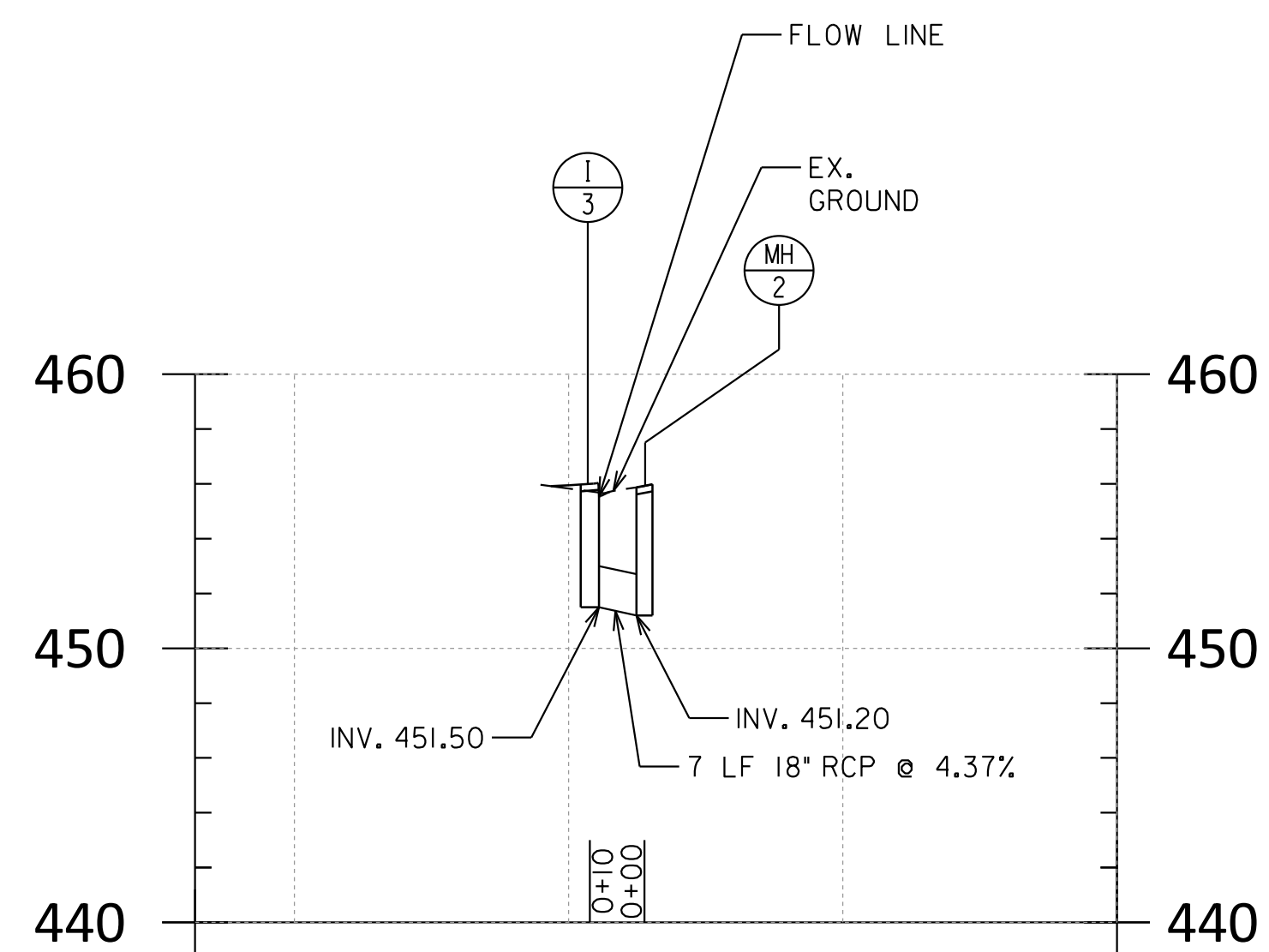


PROJECT: 442025  
FILE: \\server\monrovia\_data\1\Projects\1908\1908-04\_Sandy\_Spring\_Blowway\08\_Visual\_Resources\PDF\02\_Norwood.dgn

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH	
				Chief, Transportation Planning and Design Section APPROVED		STORM DRAIN PROFILES	
				Chief, Division of Transportation Engineering		SCALE AS SHOWN DATE APRIL, 2025	
NO.	REVISION	DATE	BY	DESIGNED BY RA	DRAWN BY NL	CHECKED BY MWM	SHEET NO. 14 OF 28



I-1 TO ES-1  
SCALE: HORIZ. 1" = 30'  
VERT. 1" = 6'



I-3 TO MH-2  
SCALE: HORIZ. 1" = 30'  
VERT. 1" = 6'

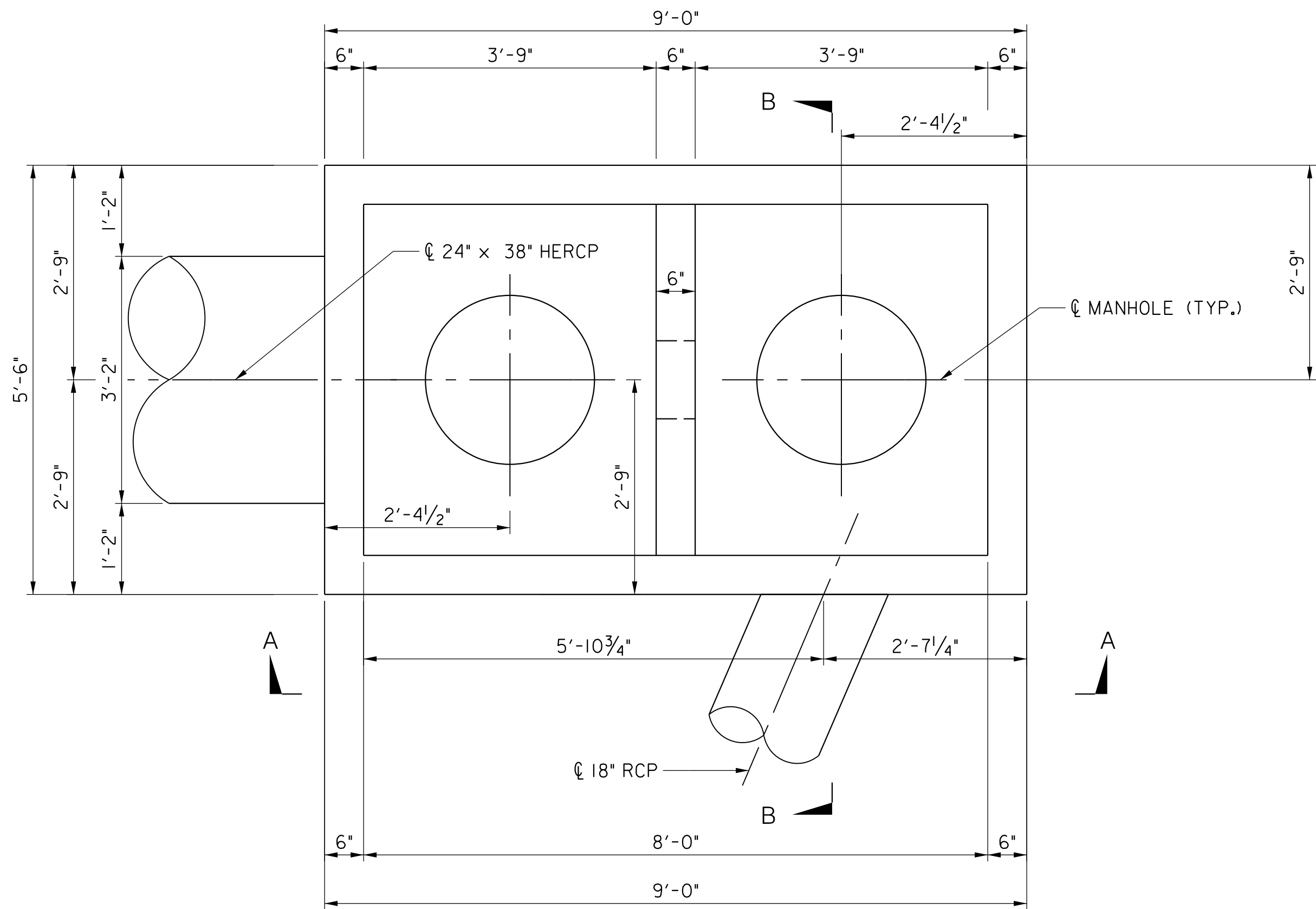
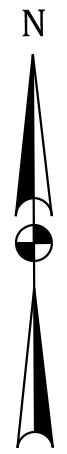
STORM DRAIN STRUCTURE SCHEDULE							
STRUCTURE NO.	STRUCTURE TYPE	STANDARD NO.	NORTHING	EASTING	TOP ELEV.	INV. IN	INV. OUT
I-1	COG-10	MC 501.01	539389.72	1303940.27	472.78		469.70
ES-1	END SECTION	MD 368.01	539363.44	1303963.66	470.75	469.53	469.50
I-3	COG-10	MC 501.01	538924.32	1303844.64	456.03		451.50
MH-2	MANHOLE 60 INCH DIA	MD 510.01	538931.04	1303854.25	456.04	451.20	

STORM DRAIN PIPE SCHEDULE					
FROM	TO	SIZE	MATERIAL	CLASS	LENGTH (FT.)
I-1	ES-1	15"	RCP	IV	34
I-3	MH-2	18"	RCP	IV	7

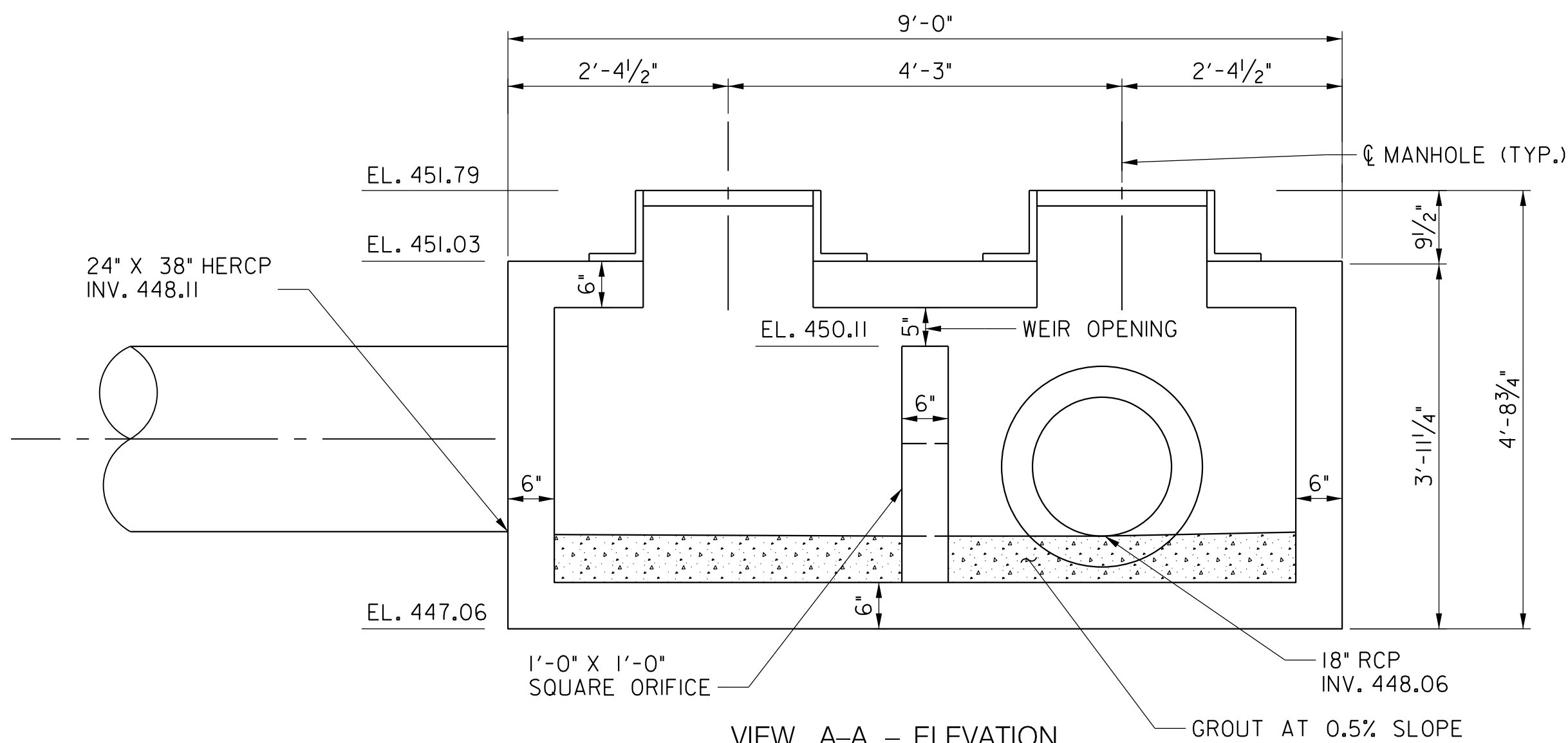


				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
				RECOMMENDED FOR APPROVAL	NORWOOD ROAD SHARED USE PATH
				_____ Chief, Transportation Planning and Design Section	_____ Date
				APPROVED	
				_____ Chief, Division of Transportation Engineering	_____ Date
				DESIGNED BY <u>RA</u>	STORM DRAIN PROFILES
				DRAWN BY <u>NL</u>	SCALE <u>AS SHOWN</u>
				CHECKED BY <u>MWM</u>	DATE <u>APRIL, 2025</u>
NO.	REVISION	DATE	BY		SHEET NO. <u>15</u> OF <u>28</u>

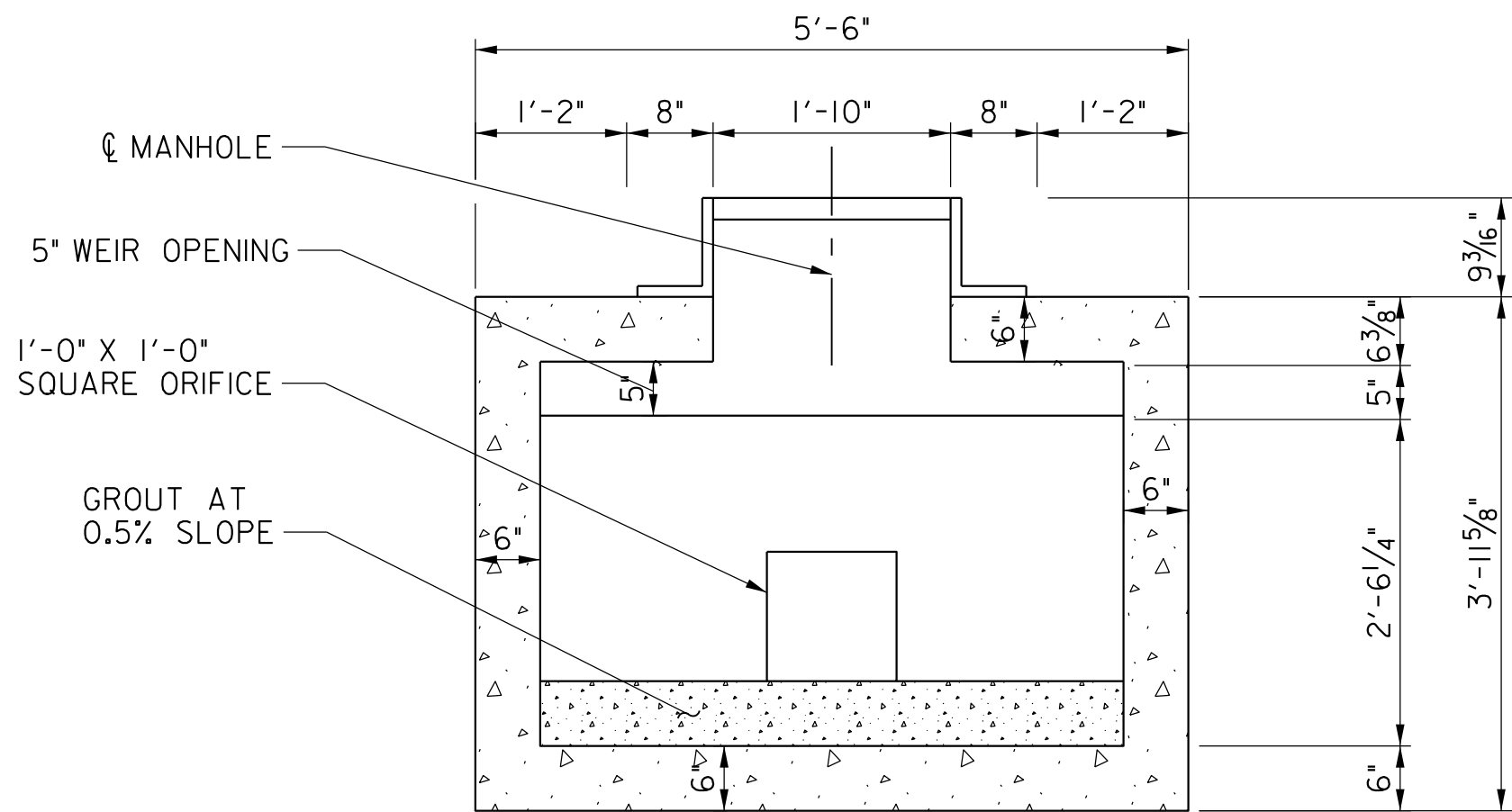
PLOTTED: 4/4/2025  
 FILE: \\serverf\mercado data 1\Projects\1908\1908.04 Sandy Spring Bikeway\06 Water Resources\pDP-2002\_Nonwood.dgn



PLAN  
SCALE: 3/4" = 1'-0"



VIEW A-A - ELEVATION  
SCALE: 3/4" = 1'-0"



SECTION B-B  
SCALE: 3/4" = 1'-0"


NOTES:

1. MANHOLE SHALL BE PRECAST. CONTRACTOR SHALL SUBMIT PRECAST DESIGN AND SHOP DRAWINGS FOR MANHOLE THAT IS SIGNED AND SEALED BY A MARYLAND PROFESSIONAL ENGINEER.
2. CONCRETE FOR PRECAST MANHOLE SHALL BE  $f'_c = 5000\text{PSI}$ .






EROSION AND SEDIMENT CONTROL - GENERAL NOTES



Department of Permitting Services  
2425 Reedie Drive, 7<sup>th</sup> Floor  
Wheaton, MD 20902  
Phone: 311 in Montgomery County or (240) 777-0311  
<http://www.montgomerycountymd.gov/permittingservices/>



**DPS** Montgomery County  
Department of Permitting Services  
**YOUR PROJECT PARTNER**

**Standard Erosion and Sediment Control Notes**

March 2024

1. 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.

2. The permittee must obtain inspection and approval by DPS at the following points:

A. At the required pre-construction meeting.

B. Following installation of sediment control measures and prior to any other land disturbing activity.

C. 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.

D. Prior to removal or modification of any sediment control structure(s).

E. Prior to final acceptance.

3. 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.

4. 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.

5. 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.

6. \* 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. \* 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 non-maintenance 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.

14. The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.

2

15. 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.

16. 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.

17. All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.

18. The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary.

19. All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.

20. \*Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control.

21. 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.

22. Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.

23. 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.

24. 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.

25. Off-site spoil or borrow areas must have prior approval by DPS.

26. 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:

A. 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

B. the pump intake may utilize a Removable Pumping Station and must discharge into an undisturbed area through a non-erosive outlet; or

C. 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.

3

27. The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.

28. \* 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".

\* Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and the Sediment Control Inspector.

4

PLOTTED: 4/16/25  
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				SC0005	
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
				RECOMMENDED FOR APPROVAL	
				Chief, Transportation Planning and Design Section APPROVED	
				Chief, Division of Transportation Engineering	
				DESIGNED BY <u>RA</u> DRAWN BY <u>NL</u> CHECKED BY <u>MWM</u>	
NO.    REVISION    DATE    BY				SHEET NO. <u>17</u> OF <u>28</u>	

CONTRACTOR CANNOT BEGIN CONSTRUCTION UNTIL CLEAR LEGAL ACCESS HAS BEEN GRANTED TO ENTIRE LOD. TEMPORARY CONSTRUCTION EASEMENTS MUST BE SUBMITTED TO SEDIMENT CONTROL INSPECTOR PRIOR TO PRECONSTRUCTION MEETING.

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 ALL TREE PROTECTION FENCE, FILTER LOG, AND STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE PLANS. ONCE THESE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MCDPS INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING OR GRADING.
6. INSTALL SILT FENCE SF 2.6 AND SF 2.5. CONSTRUCT SHARED USE PATH, CURB AND GUTTER, AND GRASS BUFFER BETWEEN STA. 20+12 TO 23+70.
7. INSTALL CLASS IRIPRAP AT OUTFALL, MH-3, MH-2, I-3, AND I-2, AND ALL STORM DRAIN PIPES BETWEEN I-2 TO OUTFALL.
8. INSTALL INLET PROTECTION CIP 2.1 AND CIP 2.2. INSTALL SILT FENCE SF 2.4, SF 2.3, AND SF 2.2. CONSTRUCT SHARED USE PATH, CURB AND GUTTER, GRASS BUFFER, AND DRIVEWAY APRONS BETWEEN STA. 17+60 TO 20+12.
9. INSTALL SILT FENCE SF 2.1, SF 1.6, AND SF 1.5. CONSTRUCT SHARED USE PATH, GRASS BUFFER, AND DRIVEWAY APRONS BETWEEN STA. 15+90 TO 17+60.
10. REMOVE EXISTING 15" CMP CROSSING NORWOOD ROAD. INSTALL I-1 AND 15" RCP.
11. INSTALL INLET PROTECTION CIP 1.1. INSTALL SILT FENCE SF 1.4, SF 1.3, SF 1.2, AND SF 1.1. CONSTRUCT REMAINING SHARED USE PATH, CURB AND GUTTER, GRASS BUFFER, AND DRIVEWAY APRONS FROM STA. 10+21 TO 15+90.
12. RECONSTRUCT THE NORTHEAST RECEIVING RAMP AT NORWOOD ROAD AND OLNEY SANDY SPRING ROAD. INSTALL NEW TRAFFIC SIGNAL POLES AT NORWOOD ROAD AND OLNEY SANDY SPRING ROAD AND COMPLETE CONSTRUCTION OF INTERSECTION.
13. STABILIZE ALL REMAINING DISTURBED AREAS.
14. REMOVE SEDIMENT CONTROL DEVICES AFTER WRITTEN APPROVAL OF ENGINEER AND MCDPS INSPECTOR.

PLOTTER: 44x68  
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SC0006

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH	
				Chief, Transportation Planning and Design Section APPROVED		EROSION AND SEDIMENT SEQUENCE OF CONSTRUCTION	
				Chief, Division of Transportation Engineering		SCALE 1"=30'      DATE APRIL, 2025	
				DESIGNED BY RA      DRAWN BY NL      CHECKED BY MWM		SHEET NO. 18 OF 28	
NO.	REVISION	DATE	BY				



INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 1.1	STA. 15+30, LT	1 EA	x.x

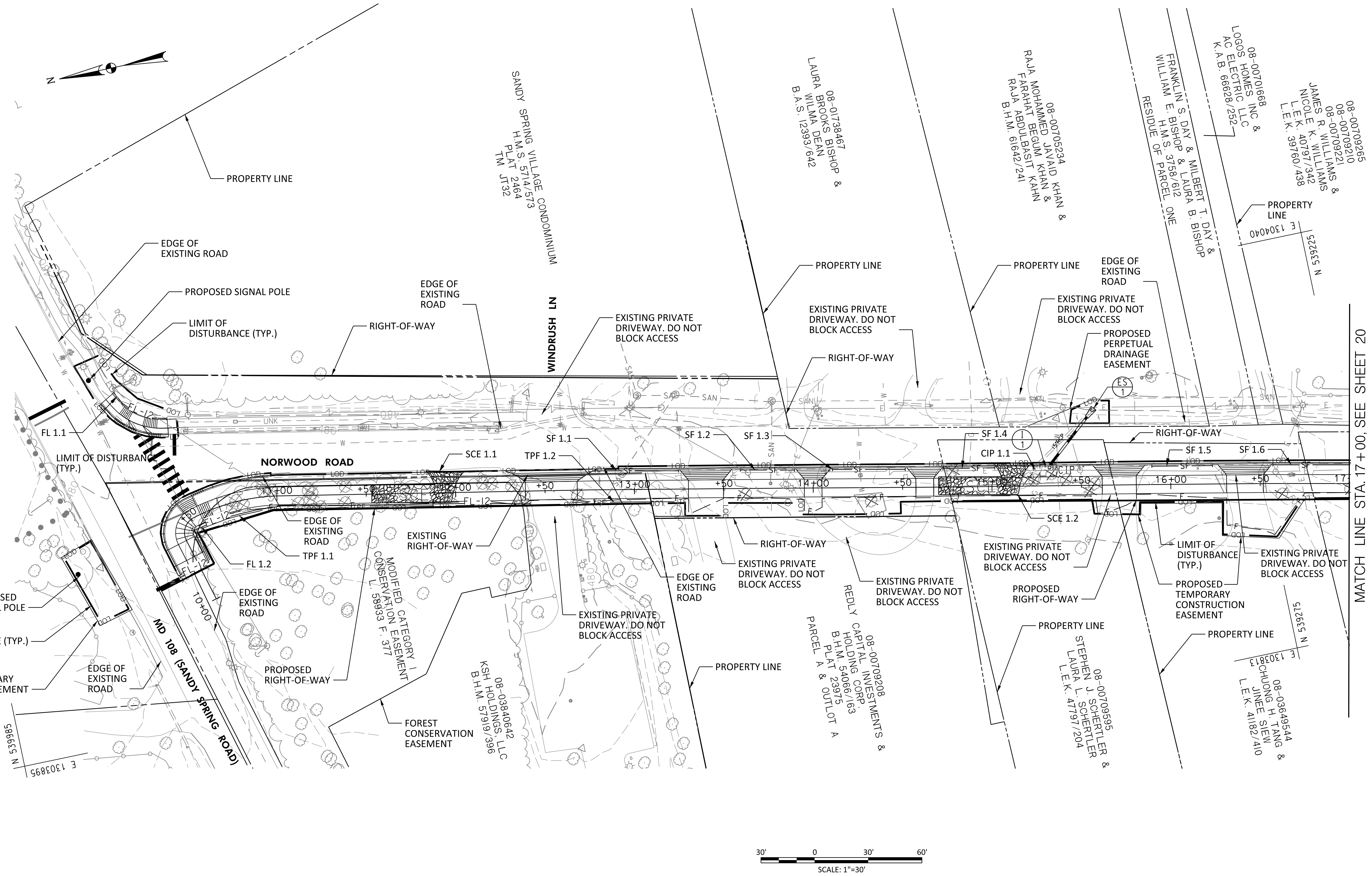
STABILIZED CONSTRUCTION ENTRANCE (SCE)		
ID NO.	QUANTITY	STATION
SCE 1.1	1 EA	STA. 11+80
SCE 1.2	1 EA	STA. 15+00

SILT FENCE		
ID NO.	QUANTITY	STATION
SF 1.1	47 LF	STA. 12+78, LT
SF 1.2	30 LF	STA. 13+59, LT
SF 1.3	41 LF	STA. 14+10, LT
SF 1.4	29 LF	STA. 14+73, LT
SF 1.5	34 LF	STA. 15+90, LT
SF 1.6	43 LF	STA. 16+57, LT

12-INCH FILTER LOG		
ID NO.	QUANTITY	STATION
FL 1.1	35 LF	STA. 10+50, LT
FL 1.2	228 LF	STA. 10+20, RT

TREE PROTECTION FENCE (TPF)		
ID NO.	QUANTITY	STATION
TPF 1.1	207 LF	STA. 10+20, RT
TPF 1.2	64 LF	STA. 12+66, RT

- LEGEND**
- LOD — LIMITS OF DISTURBANCE
  - SF — SILT FENCE
  - STABILIZED CONSTRUCTION ENTRANCE
  - CURB INLET PROTECTION
  - TREE TO BE REMOVED
  - TPF — TREE PROTECTION FENCE
  - 12" FILTER LOG

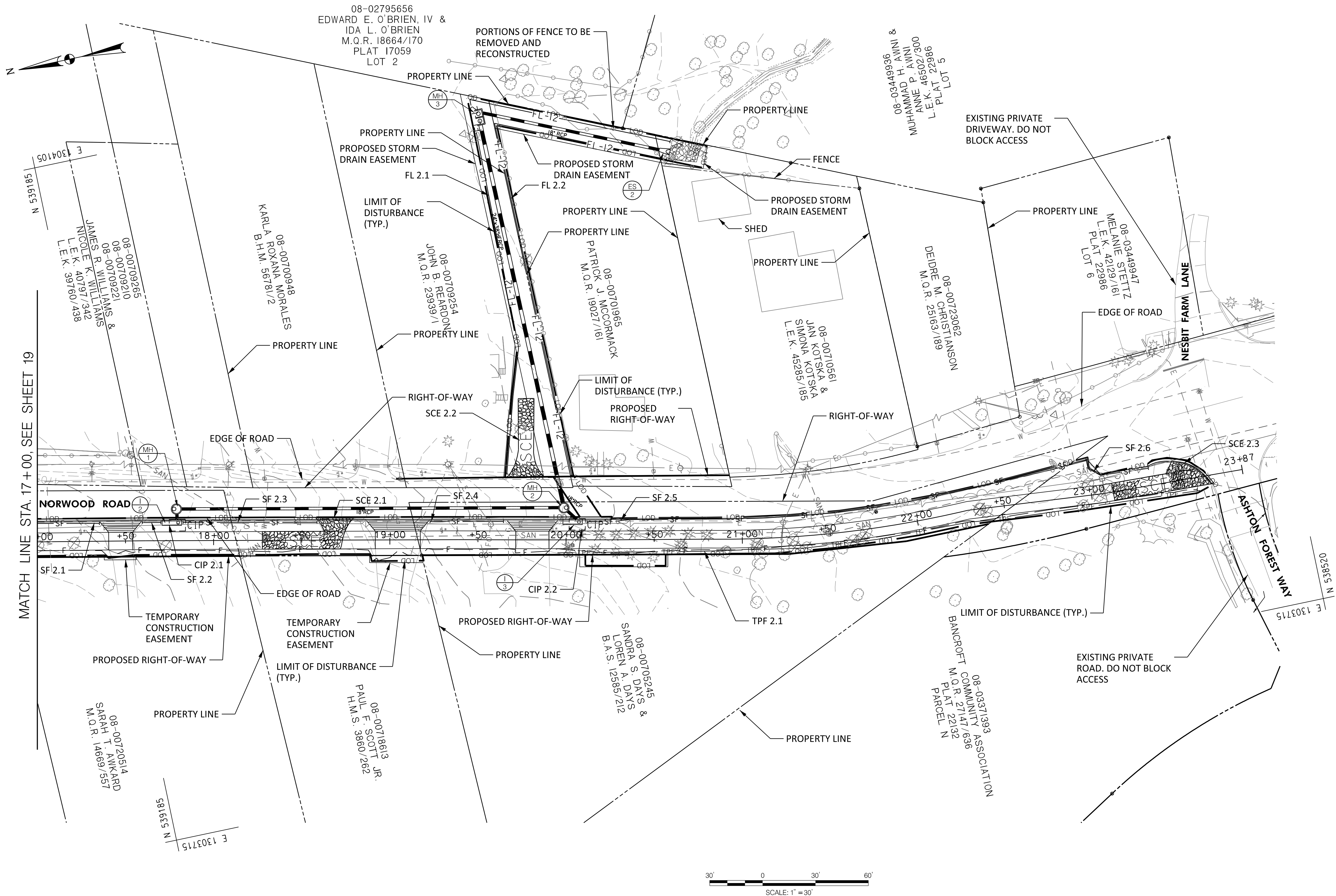


				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH	
				Chief, Transportation Planning and Design Section APPROVED		EROSION AND SEDIMENT CONTROL PLAN	
				Chief, Division of Transportation Engineering		SCALE 1"=30'      DATE APRIL, 2025	
NO.      REVISION      DATE      BY				DESIGNED BY RA      DRAWN BY NL      CHECKED BY MWM		SHEET NO. 19 OF 28	

PLOTTER: 44x55  
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MATCH LINE STA. 17+00, SEE SHEET 19



INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 2.1	STA. 17+75, LT	1 EA	X.XX
CIP 2.2	STA. 20+05, LT	1 EA	X.XX

STABILIZED CONSTRUCTION ENTRANCE (SCE)		
ID NO.	QUANTITY	STATION
SCE 2.1	1 EA	STA. 18+50
SCE 2.2	1 EA	STA. 19+75, LT
SCE 2.3	1 EA	STA. 23+30

SILT FENCE		
ID NO.	QUANTITY	STATION
SF 2.1	35 LF	STA. 17+00, LT
SF 2.2	11 LF	STA. 17+60, LT
SF 2.3	76 LF	STA. 17+83, LT
SF 2.4	42 LF	STA. 19+23, LT
SF 2.5	287 LF	STA. 20+12, LT
SF 2.6	41 LF	STA. 23+00, LT

12-INCH FILTER LOG		
ID NO.	QUANTITY	STATION
FL 2.1	332 LF	STA. 19+66, LT
FL 2.2	305 LF	STA. 20+03, LT

TREE PROTECTION FENCE (TPF)		
ID NO.	QUANTITY	STATION
TPF 2.1	367 LF	STA. 19+95, RT

LEGEND	
	LIMITS OF DISTURBANCE
	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE
	CURB INLET PROTECTION
	TREE TO BE REMOVED
	TREE PROTECTION FENCE
	12" FILTER LOG

SC0008

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section  
 APPROVED

Chief, Division of Transportation Engineering

DESIGNED BY RA DRAWN BY NL CHECKED BY MWM

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

NORWOOD ROAD SHARED USE PATH

EROSION AND SEDIMENT CONTROL PLAN

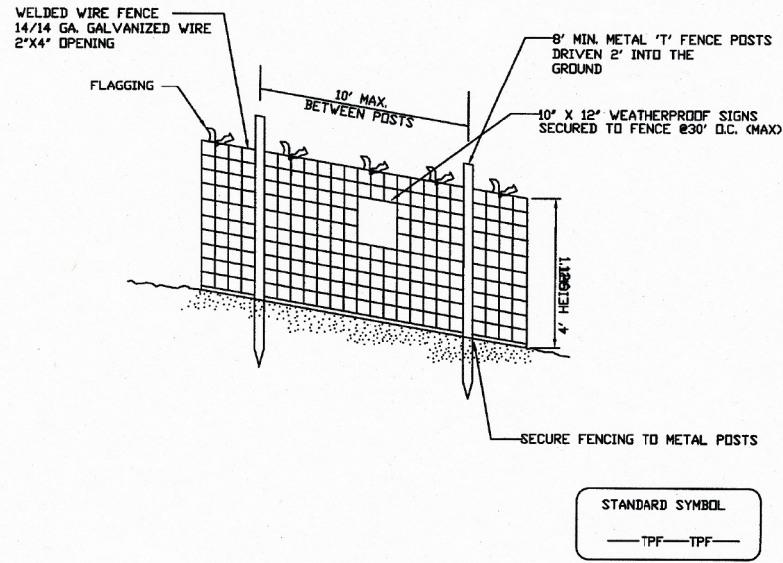
SCALE 1"=30' DATE APRIL, 2025

SHEET NO. 20 OF 28



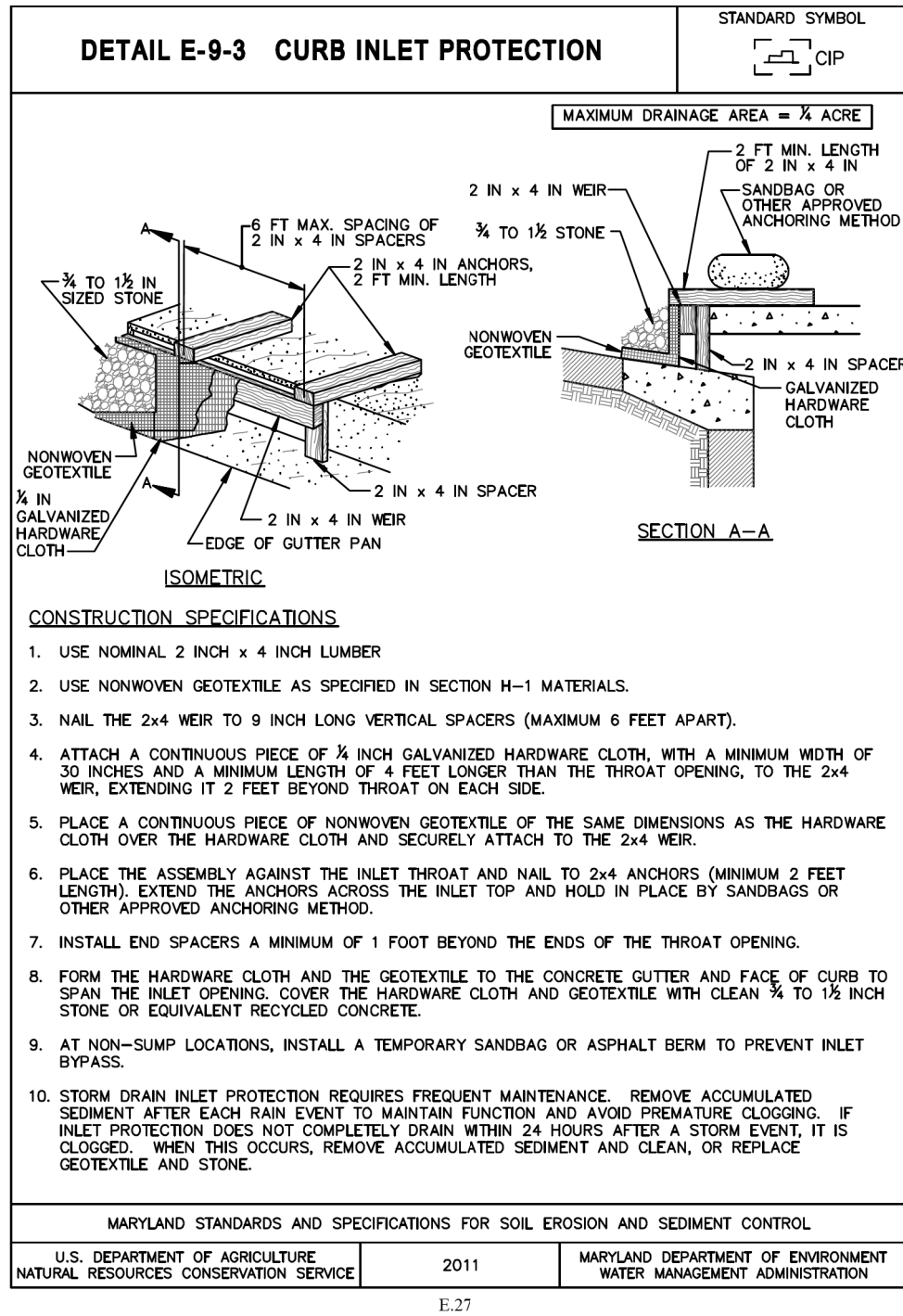
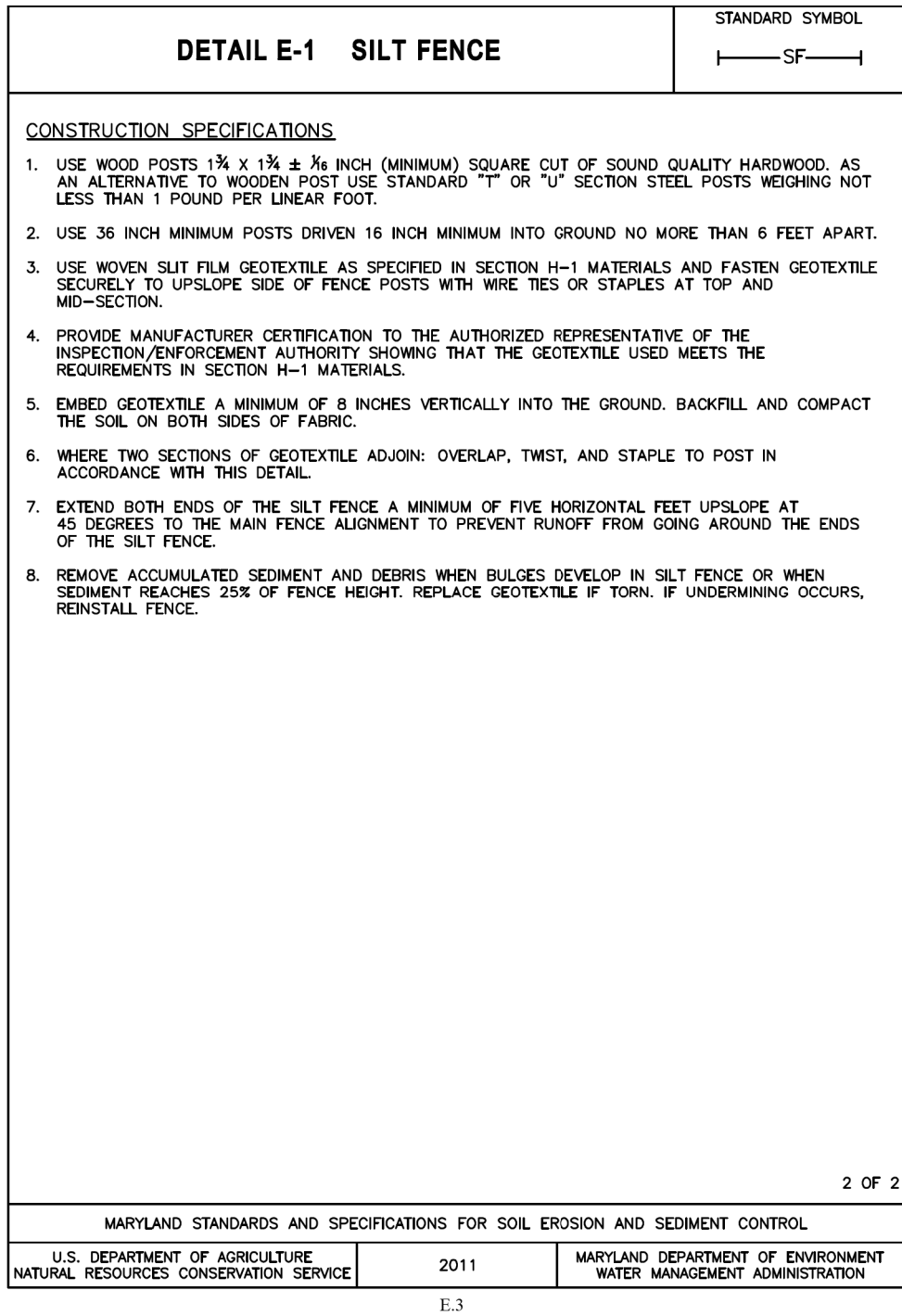
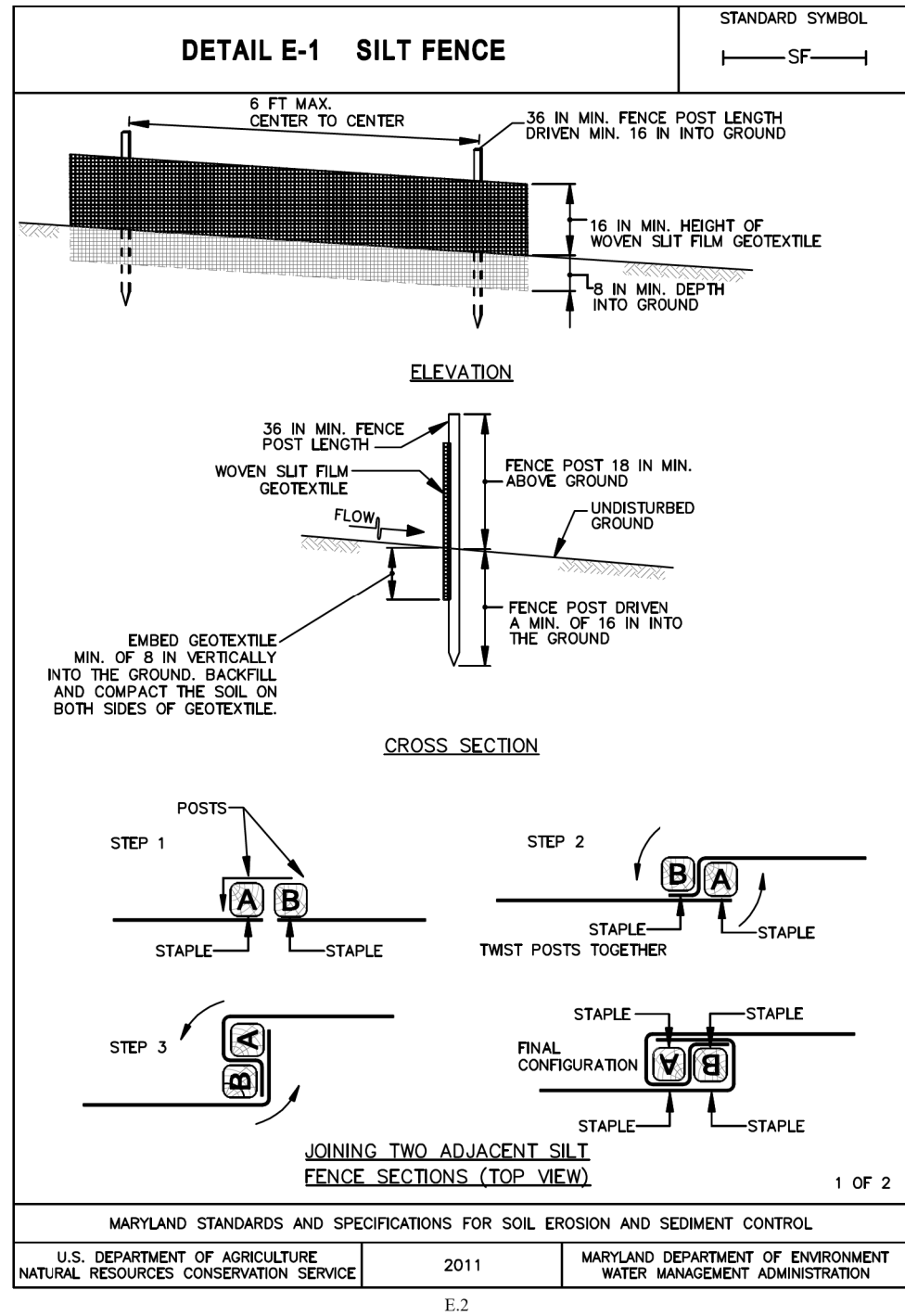
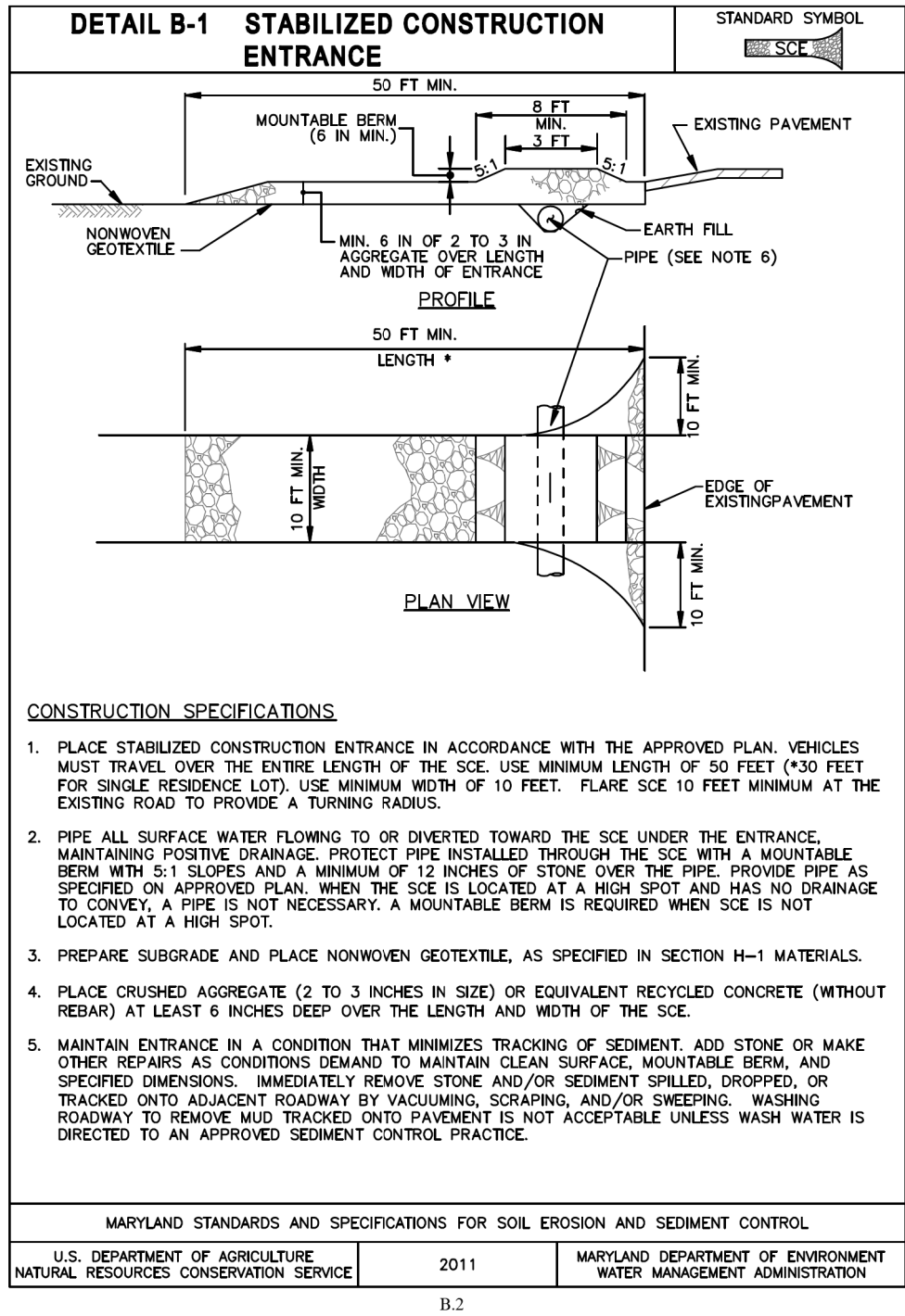
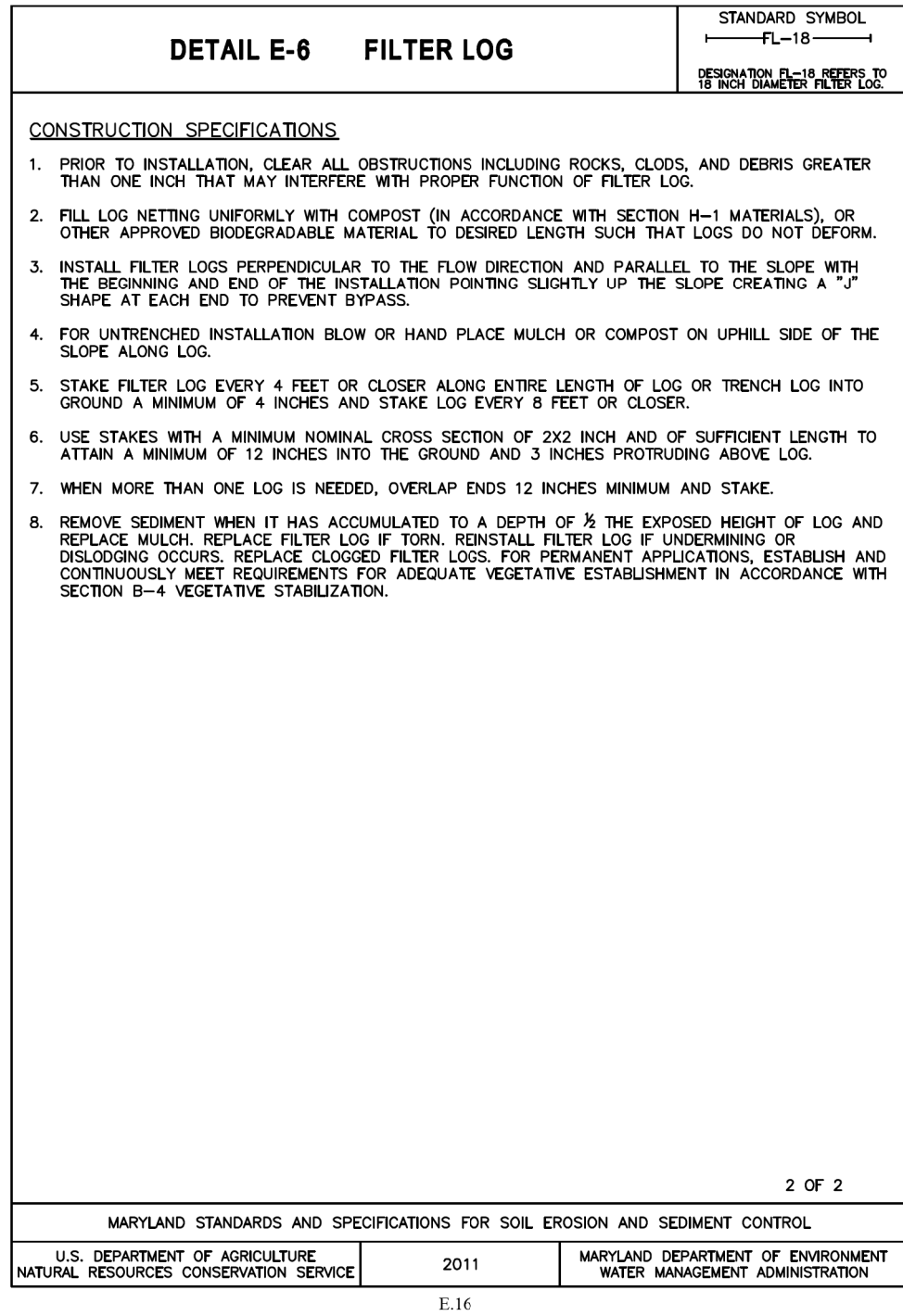
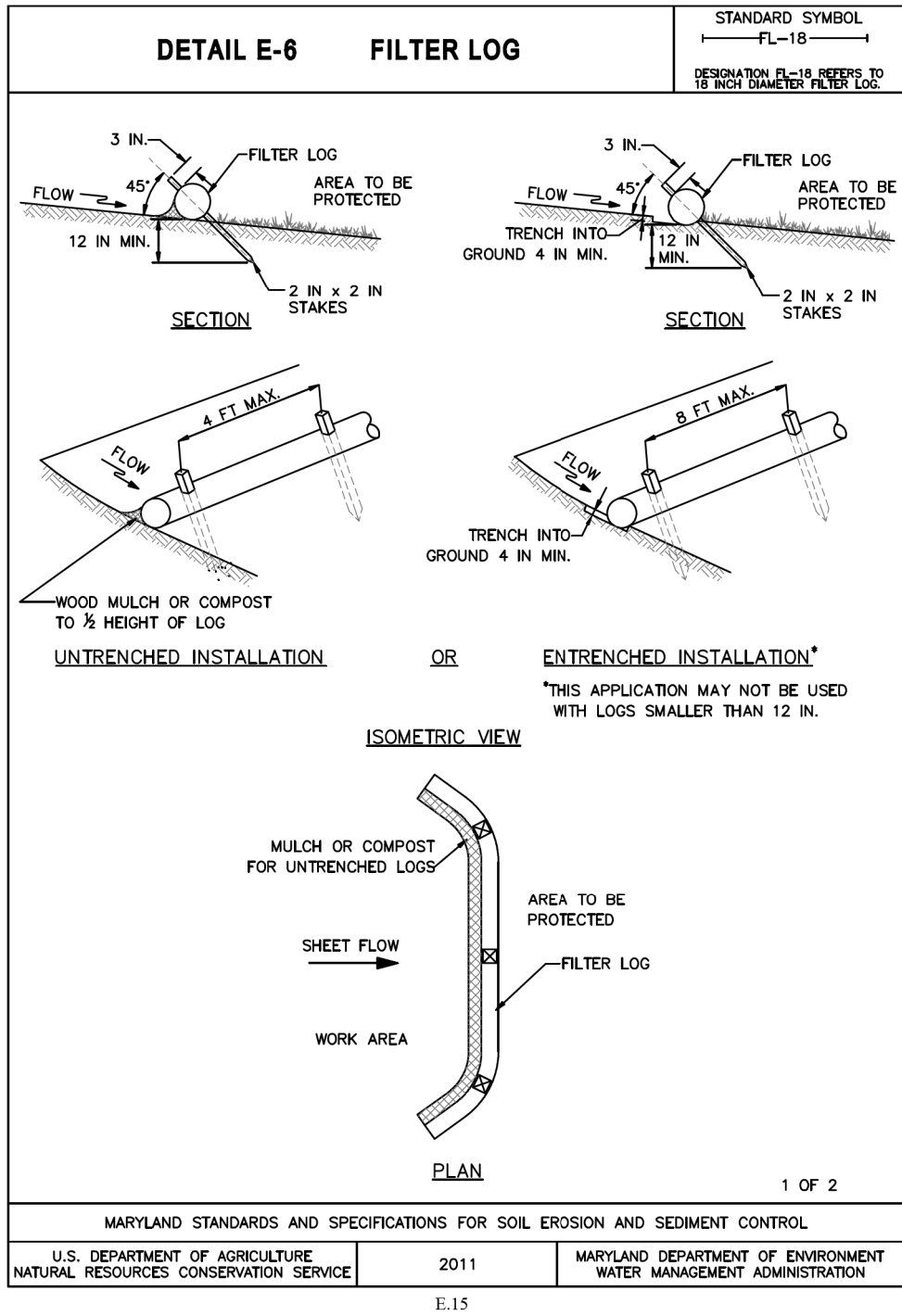
Tree Protection Fence Detail

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



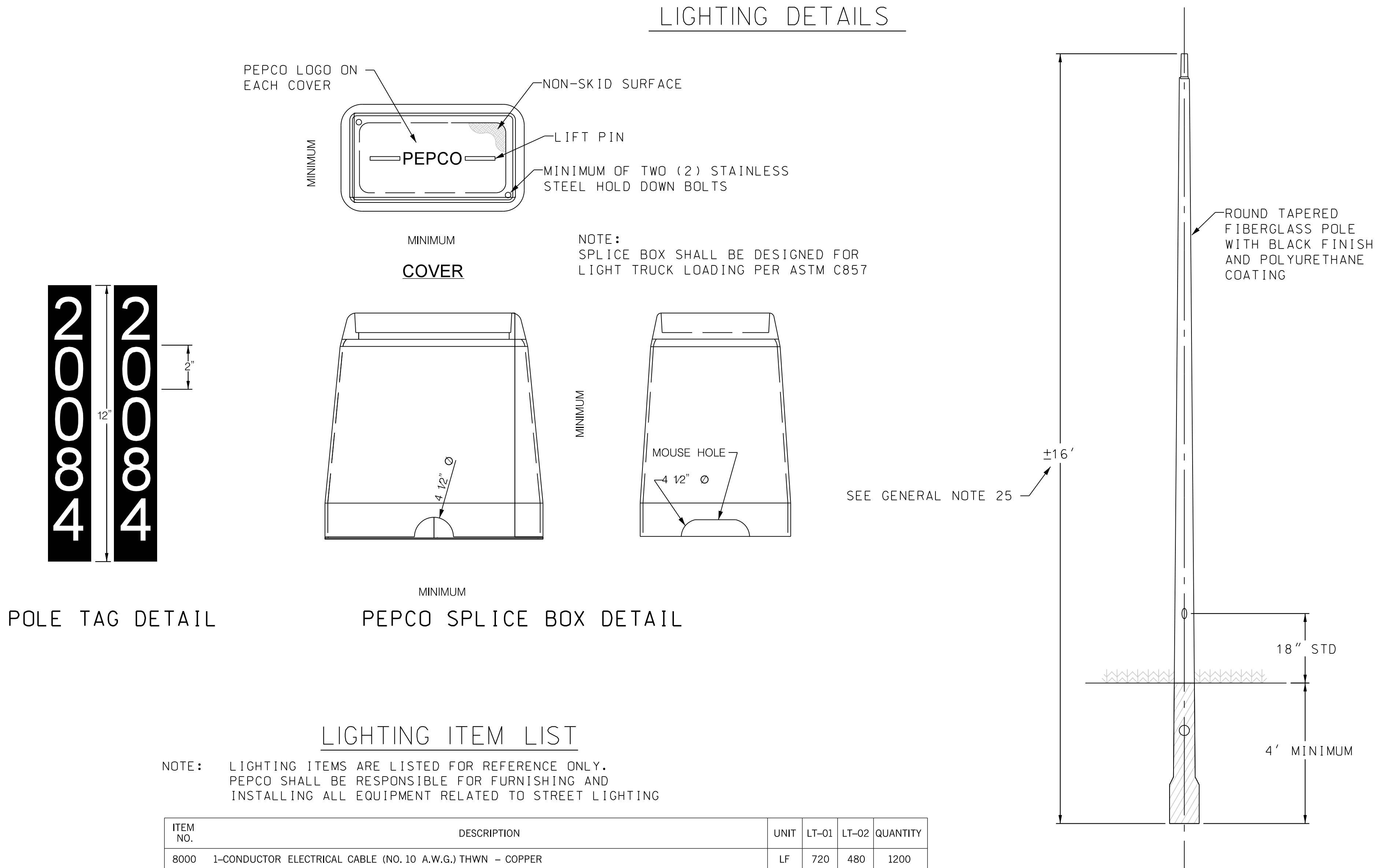


## LIGHTING GENERAL NOTES

1. THE PROPOSED ROADWAY LIGHTING SHALL BE SINGLE PHASE 120/240V WITH AN OPERATING VOLTAGE OF 240V.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE PROPOSED EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. THE CONTRACTOR SHALL ARRANGE A MEETING WITH PEPCO, THE PROJECT ENGINEER, AND THE MCDOT TO ENSURE THAT POWER IS AVAILABLE WHEN REQUIRED.
4. THE PROPOSED LIGHT FIXTURES SHALL BE COLONIAL POST-TOP 70 WATT LED LUMINAIRES WITH TYPE III DISTRIBUTION. ALL LED FIXTURE CHOICES MUST BE APPROVED BY MCDOT AND PEPCO.
5. THE CONTRACTOR SHALL INSTALL THREE RUNS OF NO. 10 AWG CABLE BETWEEN THE POST-TOP LUMINAIRE AND THE ADJACENT PEPCO SPLICE BOX. ONE RUN SHALL INCLUDE GREEN INSULATION AND SHALL BE CONNECTED TO THE GROUNDING LUG OR GROUND ROD TO PROVIDE FOR GROUNDING OF THE LUMINAIRE. 3 FT OF EACH CABLE SHALL BE COILED IN THE SPLICE BOX FOR CONNECTION BY PEPCO.
6. ALL PROPOSED CABLE ENERGIZING PROPOSED LIGHTING STRUCTURES SHALL BE NEW.
7. THE LIGHT POLES ALONG NORWOOD ROAD WILL BE WIRED, ENERGIZED, AND MAINTAINED BY PEPCO FOR MCDOT.
8. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN CASE OF DAMAGE TO AN EXISTING FACILITY.
9. LIGHTING STRUCTURES SHALL HAVE A MINIMUM LATERAL OFFSET OF 2 FEET FROM THE SHARED USE PATH.
10. ALL CONNECTIONS BETWEEN GROUND RODS AND GROUND CABLE SHALL BE BY EXOTHERMIC WELD.
11. ALL PROPOSED LIGHT STRUCTURE LOCATIONS SHALL BE MARKED IN THE FIELD AND TEST PITS COMPLETED PRIOR TO INSTALLATION. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND FINAL GRADE ELEVATIONS PRIOR TO INSTALLATION OF THE LIGHTING EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THE STAKE OUT OF THE LIGHT POLE WITH PEPCO AND MCDOT. THE CONTRACTOR SHALL MAINTAIN APPROPRIATE CLEARANCES FROM ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES.
12. ALL HANDBOXES, CONDUITS UNDER PAVEMENT AND LIGHTING STRUCTURES SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS PERFORMED.
13. THE CONTRACTOR SHALL CAP AND ABANDON ALL EXISTING CONDUITS AND REMOVE ALL EXISTING CABLES THAT ARE NO LONGER IN USE.
14. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF LIGHT POLES, SPLICE BOXES AND CONDUITS WITH THE INSTALLATION OF PROPOSED DRAINAGE STRUCTURES AND STORM WATER MANAGEMENT FACILITIES. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
15. RIGHT OF WAY SHOWN ON THE PLANS IS APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION.
16. CLEARING AND GRUBBING REQUIRED FOR INSTALLATION OF LIGHTING STRUCTURES, SPLICE BOXES CONDUITS, ETC. WILL NOT BE MEASURED AND THE COST WILL BE TO THE PERTINENT BID ITEM.
17. ALL TRENCHING MUST BE BACKFILLED AND RESTORED TO ITS ORIGINAL CONDITION ON THE SAME WORKING DAY ON WHICH IT WAS OPENED. AREAS WHICH ARE NOT RESEED, MULCHED OR SODDED MUST BE COVERED TO PREVENT EROSION.
18. ALL SOIL REMOVED FOR HANDBOXES, LIGHT POLES, ETC. MUST BE COVERED TO PREVENT EROSION. SOIL NOT USED FOR BACKFILL MUST BE DISPOSED OF TO THE ENGINEER'S SATISFACTION ON THE SAME WORKING DAY THE BACKFILL IS COMPLETED.
19. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR POLES, CONDUITS, ETC. BY HAND. HAND DIGGING FOR INSTALLATION OR REMOVAL OF EQUIPMENT SHALL BE INCIDENTAL TO THE PERTINENT ITEMS IN THE EQUIPMENT LIST. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR HAND DIGGING.
20. ALL LIGHTING EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO MCDOT FOR APPROVAL PRIOR TO BEING INSTALLED. SEE SPECIAL PROVISIONS FOR LIGHT SPECIFICATIONS.
21. ALL POLES SHALL BE INSTALLED WITH POLE ID TAGS, AS DETAILED ON THIS SHEET.
22. PEPCO SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUITS, SPLICE BOXES, AND GROUND RODS. EMPTY CONDUITS SHALL BE INSTALLED WITH PULL STRINGS.
23. THE CONTRACTOR SHALL COORDINATE THE WIRING AND ENERGIZING OF THE PROPOSED LIGHTING LIGHTING SYSTEM WITH PEPCO. UTILITY COORDINATION SHALL BE INCIDENTAL TO INSTALLATION OF THE LIGHT POLES AND LUMINAIRES.
24. CONTACT MR. GEORGE DOWNIE (301-549-4347 OR GFDOWNIE@PEPCO.COM) TO OBTAIN WRITTEN APPROVAL OF THE LIGHTING FACILITIES PRIOR TO THE INASTALLATION.
25. LIGHT POLES SHALL BE SHORTENED, WHERE NECESSARY, TO MAINTAIN AT LEAST 2 FT VERTICAL CLEARANCE BETWEEN LOWEST OVERHEAD UTILITY AND LAMP FIXTURE FINAL.
26. FINAL LIGHT POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER. ALL EFFORTS SHALL BE MADE TO AVOID CONFLICTS WITH OVERHEAD TREE BRANCHES. NO MAJOR TREE BRANCHES SHALL BE REMOVED WITHOUT THE ENGINEER'S APPROVAL.
27. SPLICE BOXES SHALL BE PLACED SUCH THAT THE LONG EDGE IS PARALLEL TO THE SHARED USE PATH.
28. ALL SWEEP BENDS ARE TO BE A MINIMUM OF 2 FT. IN RADIUS.
29. 1/4 IN. NYLON PULL- LINE IS TO BE INSTALLED IN EACH CONDUIT DUCT.

- 30.CONTRACTOR SHALL INSTALL TRACEABLE MARKING TAPE 12 IN. ABOVE EACH CONDUIT RUN.
- 31.MAXIMUM BENDS PER CONDUIT RUN SHALL BE 270 DEGREES PER PEPCO STANDARDS.
- 32.INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE COVERING OF FACILITIES AT THE CONTRACTORS EXPENSE, CALL 301-670-8808 OR 301-670-8828 BETWEEN 7:00 AM AND 9:00 AM OR 3:00 PM AND 4:00 PM, TWO (2) WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.
- 33.THE CONTRACTOR SHALL CONTACT PEPCO SIX (6) WEEKS PRIOR TO STARTING LIGHTING WORK TO COORDINATE POWER SOURCE LOCATIONS.
- 34.LIGHT POLES INSTALLED ON SLOPES MUST HAVE A MINIMUM 4' EMBEDMENT TO THE LOW SIDE OF THE SLOPE.

## LIGHTING DETAILS



## LIGHTING ITEM LIST

NOTE: LIGHTING ITEMS ARE LISTED FOR REFERENCE ONLY.  
PEPCO SHALL BE RESPONSIBLE FOR FURNISHING AND  
INSTALLING ALL EQUIPMENT RELATED TO STREET LIGHTING

ITEM NO.	DESCRIPTION	UNIT	LT-01	LT-02	QUANTITY
8000	1-CONDUCTOR ELECTRICAL CABLE (NO. 10 A.W.G.) THWN - COPPER	LF	720	480	1200
8000	FURNISH AND INSTALL LUMINAIRE	EA	9	6	40
8000	2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (TRENCHED)	LF	90	60	150
8000	4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (TRENCHED)	LF	900	600	1500
8000	GROUND ROD, 3/4" DIAMETER X 10' LENGTH WITH CLAMP	EA	9	6	15
8000	FURNISH AND INSTALL SPLICE BOX (PEPCO)	EA	9	6	15
8000	FURNISH AND INSTALL 16' DIRECT BURIAL FIBERGLASS POLE	EA	9	6	40
8000	MAINTAIN EXISTING ROADWAY LIGHTING	LS			1.0

# DIRECT BURIAL FIBERGLASS POLE

LT-C

NORWOOD SHARED USE PATH  
LIGHTING DESIGN  
SANDY SPRING, MARYLAND  
LIGHTING GENERAL NOTES & DETAILS

SCALE : 1:30

JANUARY 2024

Project No. : 23APM0032

SHEET 22 of 28

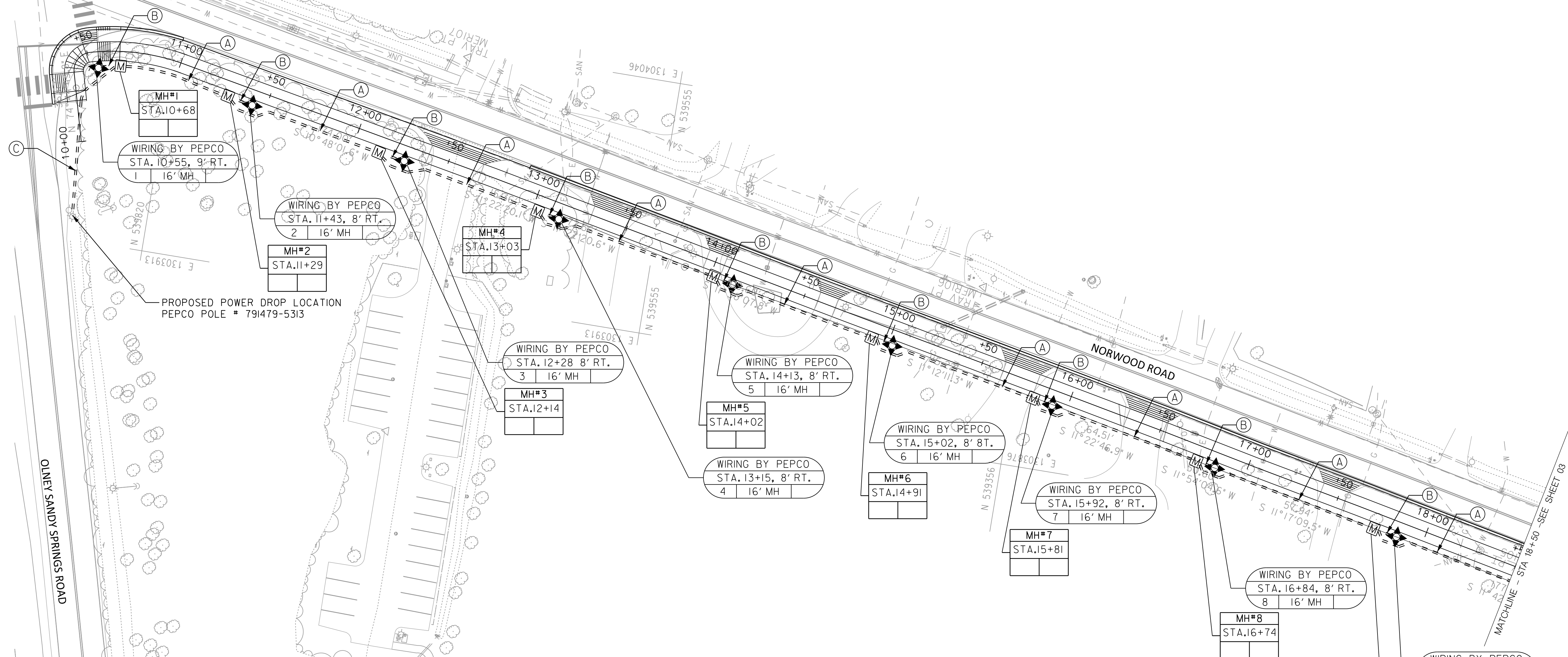
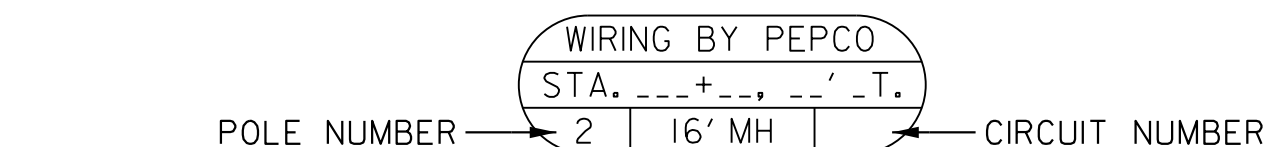
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PROFESSIONAL CERTIFICATION.  
I HEREBY CERTIFY THAT THESE DOCUMENTS  
WERE PREPARED OR APPROVED BY ME, AND  
THAT I AM A DULY LICENSED PROFESSIONAL  
ENGINEER UNDER THE LAWS OF THE STATE  
OF MARYLAND, LICENSE NO. \_\_\_\_\_  
EXPIRATION DATE: \_\_\_\_\_

**T'OOLE**  
DESIGN

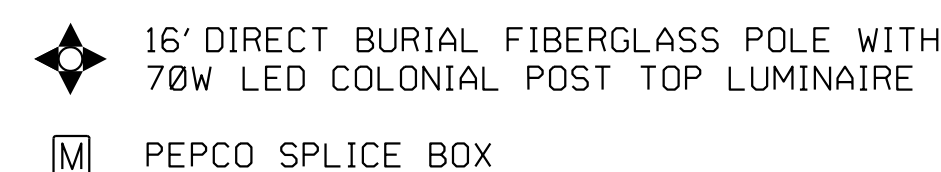
8484 GEORGIA AVENUE,  
SUITE 800  
SILVER SPRING, MD 20910  
PHONE: 301.927.1900  
FAX: 301.927.2800  
[www.tooledesign.com](http://www.tooledesign.com)

					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND
					RECOMMENDED FOR APPROVAL
					_____ Chief, Transportation Planning and Design Section APPROVED
					_____ Date
					_____ Chief, Division of Transportation Engineering
					_____ Date
NO.	REVISION	DATE	BY		Designed by: <u>OVC</u> Drawn by: <u>OVC/TT</u> Checked by: <u>MNJ</u>



## CONSTRUCTION DETAILS

- A. INSTALL 1-4 IN. SCHEDULE 80, PVC CONDUITS - TRENCHED WITH PULL STRING AND TRACER TAPE.
- B. INSTALL 1-2 IN. SCHEDULE 80, PVC CONDUIT - TRENCHED WITH 3-1 CONDUCTOR NO. 10 AWG ELECTRICAL CABLES.
- C. INSTALL 1-4 INCH SCHEDULE 80, PVC CONDUIT - TRENCHED WITH PULL STRING AND TRACER TAPE, STUB UP 6 INCHES ABOVE GRADE AT BASE OF UTILITY POLE.



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EXPIRATION DATE: \_\_\_\_\_

# TOOLE

## DESIGN

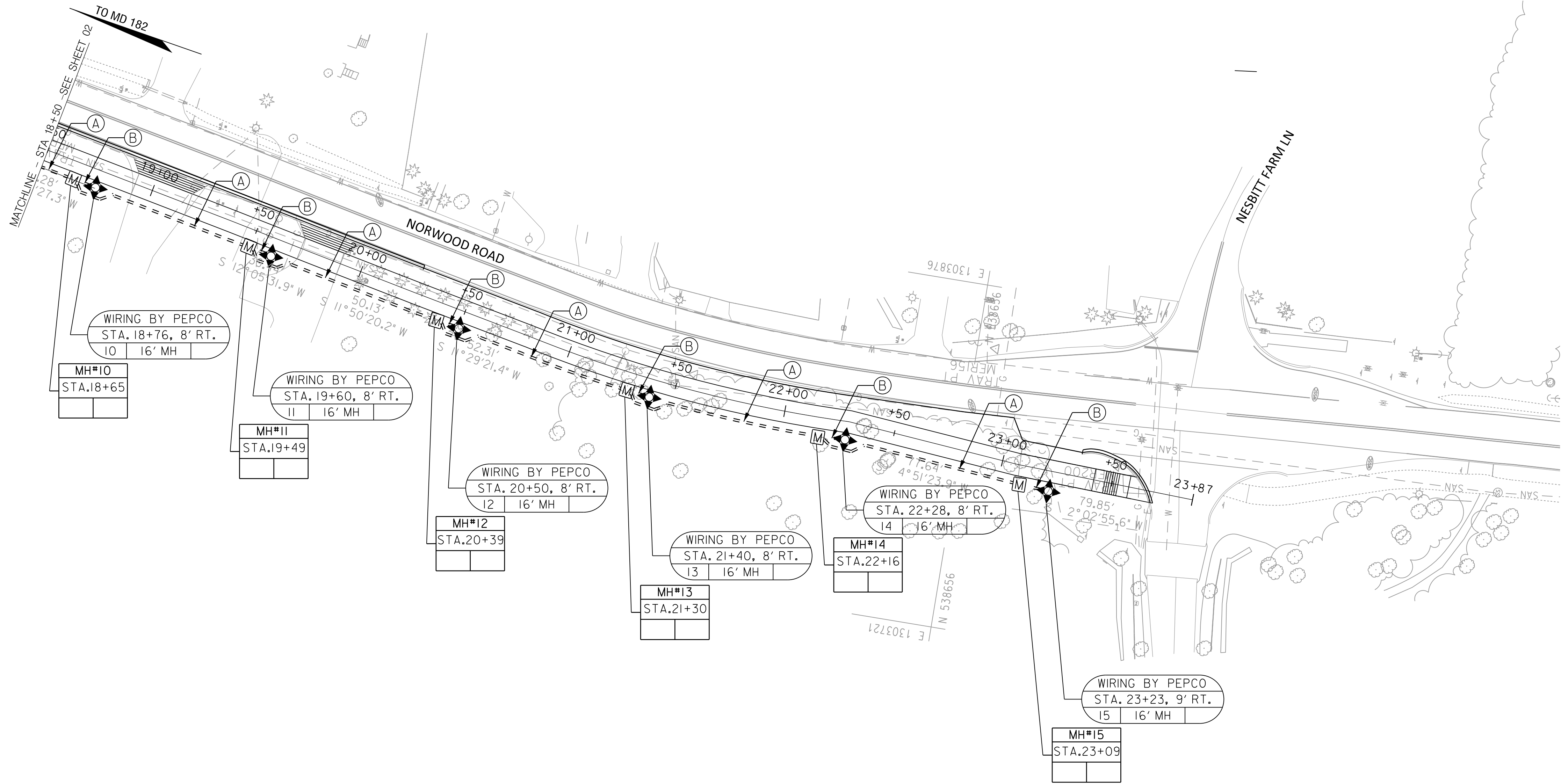
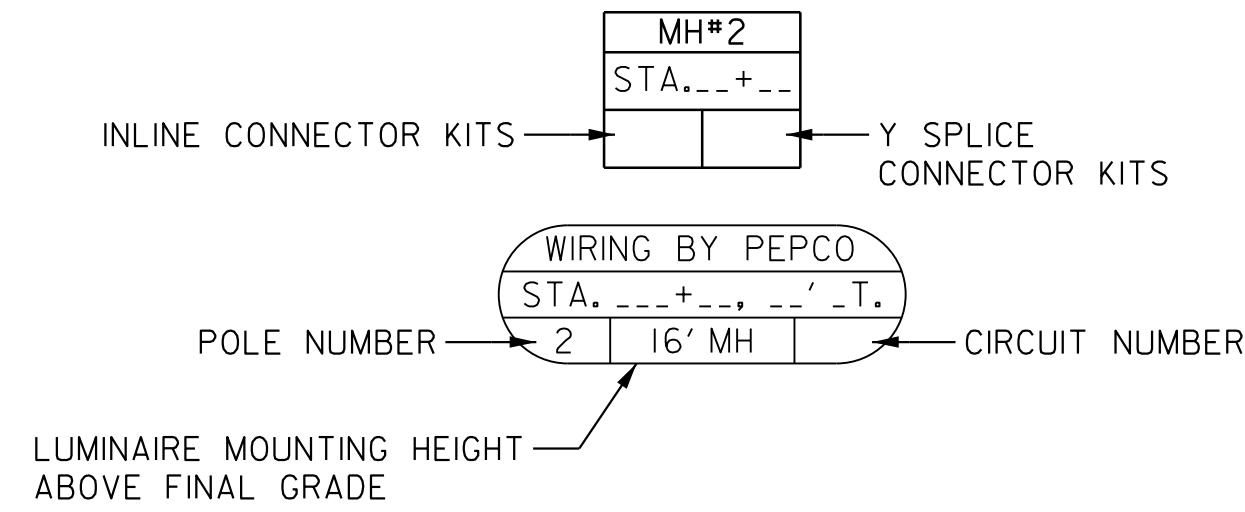
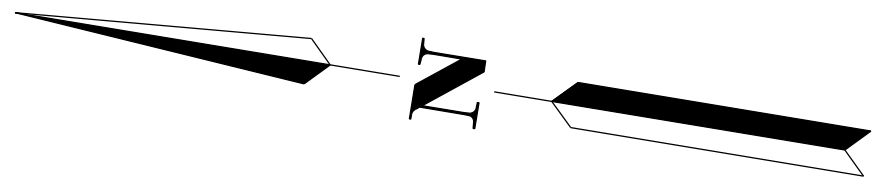
8484 GEORGIA AVENUE,  
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SILVER SPRING, MD 20910  
PHONE: 301.927.1900  
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[www.tooledesign.com](http://www.tooledesign.com)

					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND
					RECOMMENDED FOR APPROVAL
					_____ Chief, Transportation Planning and Design Section Date
					APPROVED
					_____ Chief, Division of Transportation Engineering Date
NO.	REVISION	DATE	BY		Designed by: OVC Drawn by: OVC/JT Checked by: MNJ

NORWOOD SHARED USE PATH  
LIGHTING DESIGN

SANDY SPRING, MARYLAND  
LIGHTING PLAN

SCALE : 1:30	JANUARY 2024
Project No. : 23APM0032	SHEET 23 of 28



CONSTRUCTION DETAILS

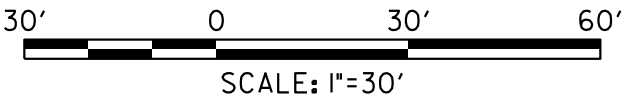
- A. INSTALL 1-4 IN. SCHEDULE 80, PVC CONDUITS - TRENCHED WITH PULL STRING AND TRACER TAPE.
- B. INSTALL 1-2 IN. SCHEDULE 80, PVC CONDUIT - TRENCHED WITH 3-1 CONDUCTOR NO. 10 AWG ELECTRICAL CABLES.
- C. INSTALL 1-4 INCH SCHEDULE 80, PVC CONDUIT - TRENCHED WITH PULL STRING AND TRACER TAPE. STUB UP 6 INCHES ABOVE GRADE AT BASE OF UTILITY POLE.

- 16' DIRECT BURIAL FIBERGLASS POLE WITH 70W LED COLONIAL POST TOP LUMINAIRE
- PEPCO SPLICE BOX

PROFESSIONAL CERTIFICATION.  
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ENGINEER UNDER THE LAWS OF THE STATE  
OF MARYLAND, LICENSE NO. \_\_\_\_\_  
EXPIRATION DATE: \_\_\_\_\_

**TOOLE**  
DESIGN

8484 GEORGIA AVENUE,  
SUITE 800  
SILVER SPRING, MD 20910  
PHONE: 301.927.1900  
FAX: 301.927.2800  
www.tooledesign.com



LT-03

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		NORWOOD SHARED USE PATH LIGHTING DESIGN	
				RECOMMENDED FOR APPROVAL		SANDY SPRING, MARYLAND LIGHTING PLAN	
				Chief, Transportation Planning and Design Section APPROVED		Date	
				Chief, Division of Transportation Engineering		Date	
				Designed by: QVC		Drawn by: QVC/IT	
				Checked by: MNJ		Project No. : 23APM0032	
				NO.		SHEET 24 of 28	
				REVISION		JANUARY 2024	
				DATE		SCALE : 1:30	
				BY			



## PHASE CHART

GROUND ROD

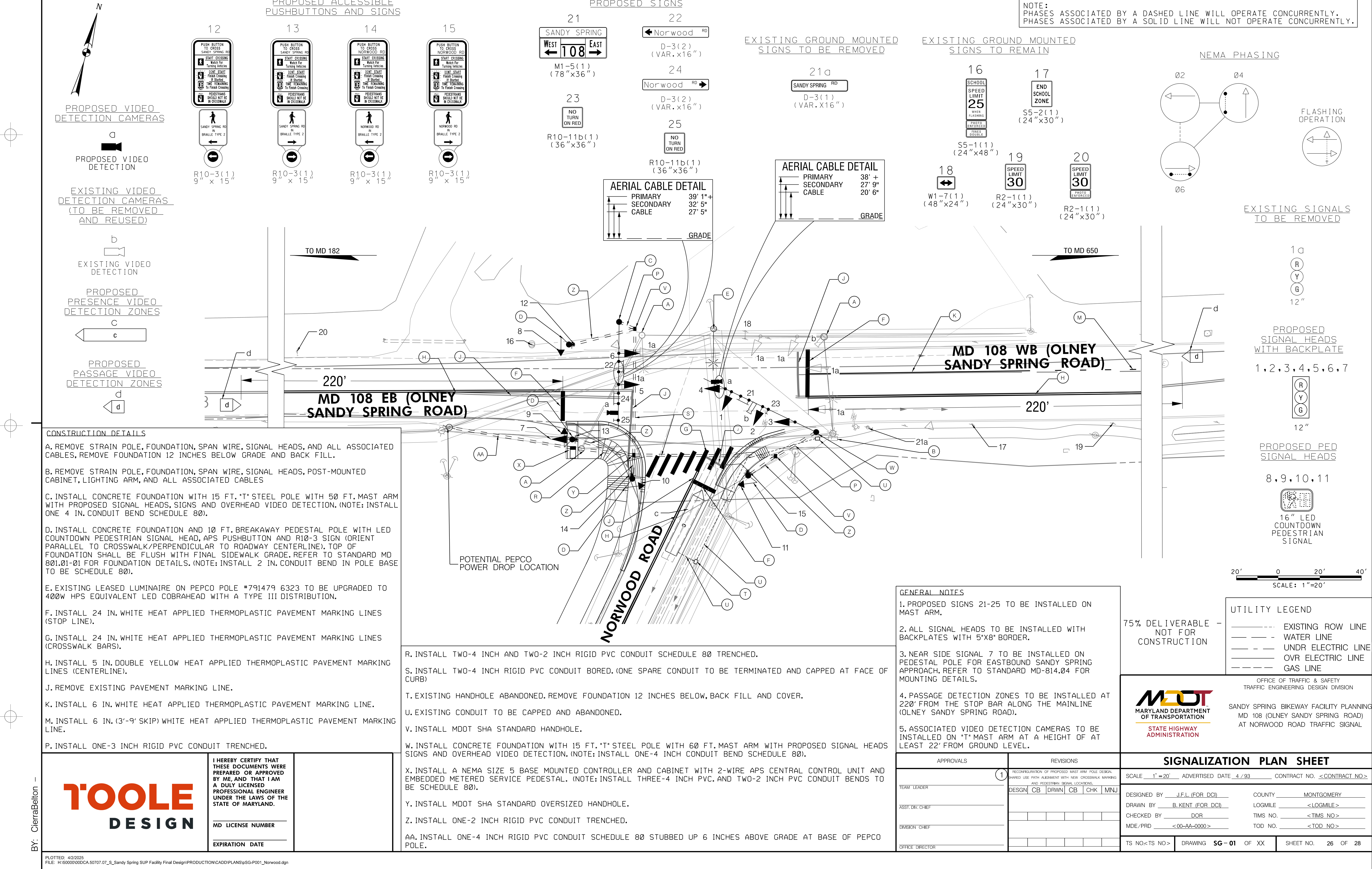
NOT TO SCALE

GROUND ROD

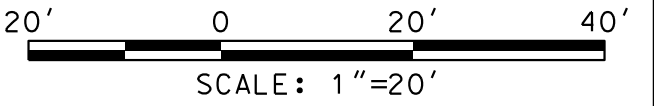
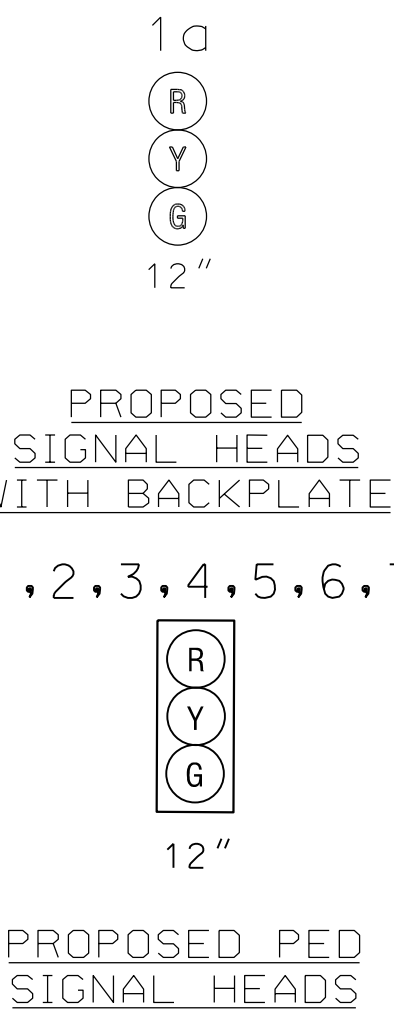
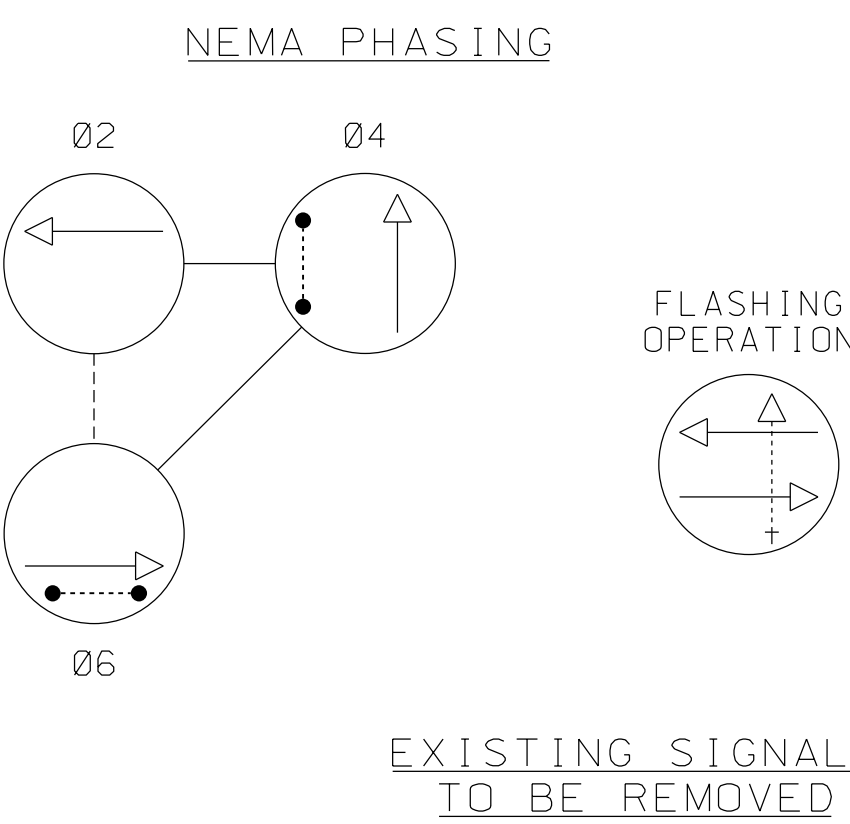
<TS NO>	XX 1	1	SHEET NO.	25	OF	28
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THIS DOCUMENT/PLAN IS DRAFT AND  
SUBJECT TO CHANGE. IT IS AN  
INTERAGENCY/INTRA-AGENCY DELIBERATIVE  
COMMUNICATION THAT IS NOT FOR  
PUBLIC DISCLOSURE UNDER MD. GENERAL  
PROVISIONS CODE ANN. § 4-344  
( MARYLAND PUBLIC INFORMATION ACT ) .





NOTE:  
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



UTILITY LEGEND	
---	EXISTING ROW LINE
---	WATER LINE
- - -	UNDR ELECTRIC LINE
---	OVR ELECTRIC LINE
---	GAS LINE

MDOT  
MARYLAND DEPARTMENT  
OF TRANSPORTATION

STATE HIGHWAY  
ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

SANDY SPRING BIKEWAY FACILITY PLANNING  
MD 108 (OLNEY SANDY SPRING ROAD)  
AT NORWOOD ROAD TRAFFIC SIGNAL

**GENERAL NOTES**

1. PROPOSED SIGNS 21-25 TO BE INSTALLED ON MAST ARM.

2. ALL SIGNAL HEADS TO BE INSTALLED WITH BACKPLATES WITH 5'X8' BORDER.

3. NEAR SIDE SIGNAL 7 TO BE INSTALLED ON PEDESTAL POLE FOR EASTBOUND SANDY SPRING APPROACH. REFER TO STANDARD MD-814.04 FOR MOUNTING DETAILS.

4. PASSAGE DETECTION ZONES TO BE INSTALLED AT 220' FROM THE STOP BAR ALONG THE MAINLINE (OLNEY SANDY SPRING ROAD).

5. ASSOCIATED VIDEO DETECTION CAMERAS TO BE INSTALLED ON "T" MAST ARM AT A HEIGHT OF AT LEAST 22' FROM GROUND LEVEL.

APPROVALS		REVISIONS	
TEAM LEADER		1	RECONFIGURATION OF PROPOSED MAST ARM POLE DESIGN, SHARPED USE PATH ALIGNMENT WITH NEW CROSSWALK MARKING AND PEDESTRIAN SIGNAL LOCATIONS.
ASST. DIR. CHIEF		DESIGN	CB [ ] DRWN [ ] CB [ ] CHK [ ] MNJ [ ]
DIVISION CHIEF			
OFFICE DIRECTOR			

SIGNALIZATION PLAN SHEET			
SCALE 1"=20'		ADVERTISED DATE 4/93	
CONTRACT NO. <CONTRACT NO>			
DESIGNED BY J.F.L. (FOR DCJ)	COUNTY MONTGOMERY		
DRAWN BY B.KENT (FOR DCJ)	LOGMILE <LOGMILE>		
CHECKED BY DOR	TMS NO. <TMS NO>		
MDE/PRD <00-AA-0000>	TOD NO. <TOD NO>		
TS NO.<TS NO>	DRAWING SG-01 OF XX	SHEET NO. 26 OF 28	

- CONSTRUCTION DETAILS**
- A. REMOVE STRAIN POLE, FOUNDATION, SPAN WIRE, SIGNAL HEADS, AND ALL ASSOCIATED CABLES, REMOVE FOUNDATION 12 INCHES BELOW GRADE AND BACK FILL.
- B. REMOVE STRAIN POLE, FOUNDATION, SPAN WIRE, SIGNAL HEADS, POST-MOUNTED CABINET, LIGHTING ARM, AND ALL ASSOCIATED CABLES
- C. INSTALL CONCRETE FOUNDATION WITH 15 FT."T" STEEL POLE WITH 50 FT. MAST ARM WITH PROPOSED SIGNAL HEADS, SIGNS AND OVERHEAD VIDEO DETECTION. (NOTE: INSTALL ONE 4 IN. CONDUIT BEND SCHEDULE 80).
- D. INSTALL CONCRETE FOUNDATION AND 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND R10-3 SIGN (ORIENT PARALLEL TO CROSSWALK/PERPENDICULAR TO ROADWAY CENTERLINE). TOP OF FOUNDATION SHALL BE FLUSH WITH FINAL SIDEWALK GRADE. REFER TO STANDARD MD 801.01-01 FOR FOUNDATION DETAILS. (NOTE: INSTALL 2 IN. CONDUIT BEND IN POLE BASE TO BE SCHEDULE 80).
- E. EXISTING LEASED LUMINAIRE ON PEPCO POLE #791479 6323 TO BE UPGRADED TO 400W HPS EQUIVALENT LED COBRAHEAD WITH A TYPE III DISTRIBUTION.
- F. INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINES (STOP LINE).
- G. INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINES (CROSSWALK BARS).
- H. INSTALL 5 IN. DOUBLE YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINES (CENTERLINE).
- J. REMOVE EXISTING PAVEMENT MARKING LINE.
- K. INSTALL 6 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE.
- M. INSTALL 6 IN. (3'-9' SKIP) WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE.
- P. INSTALL ONE-3 INCH RIGID PVC CONDUIT TRENCHED.

- R. INSTALL TWO-4 INCH AND TWO-2 INCH RIGID PVC CONDUIT SCHEDULE 80 TRENCHED.
- S. INSTALL TWO-4 INCH RIGID PVC CONDUIT BORED. (ONE SPARE CONDUIT TO BE TERMINATED AND CAPPED AT FACE OF CURB)
- T. EXISTING HANDHOLE ABANDONED. REMOVE FOUNDATION 12 INCHES BELOW, BACK FILL AND COVER.
- U. EXISTING CONDUIT TO BE CAPPED AND ABANDONED.
- V. INSTALL MDOT SHA STANDARD HANDHOLE.
- W. INSTALL CONCRETE FOUNDATION WITH 15 FT."T" STEEL POLE WITH 60 FT. MAST ARM WITH PROPOSED SIGNAL HEADS SIGNS AND OVERHEAD VIDEO DETECTION. (NOTE: INSTALL ONE-4 INCH CONDUIT BEND SCHEDULE 80).
- X. INSTALL A NEMA SIZE 5 BASE MOUNTED CONTROLLER AND CABINET WITH 2-WIRE APS CENTRAL CONTROL UNIT AND EMBEDDED METERED SERVICE PEDESTAL. (NOTE: INSTALL THREE-4 INCH PVC. AND TWO-2 INCH PVC CONDUIT BENDS TO BE SCHEDULE 80).
- Y. INSTALL MDOT SHA STANDARD OVERSIZED HANDHOLE.
- Z. INSTALL ONE-2 INCH RIGID PVC CONDUIT TRENCHED.
- AA. INSTALL ONE-4 INCH RIGID PVC CONDUIT SCHEDULE 80 STUBBED UP 6 INCHES ABOVE GRADE AT BASE OF PEPCO POLE.

TOOLE  
DESIGN

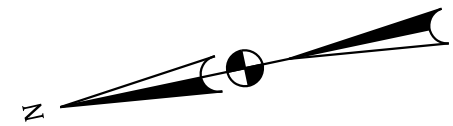
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

MD LICENSE NUMBER

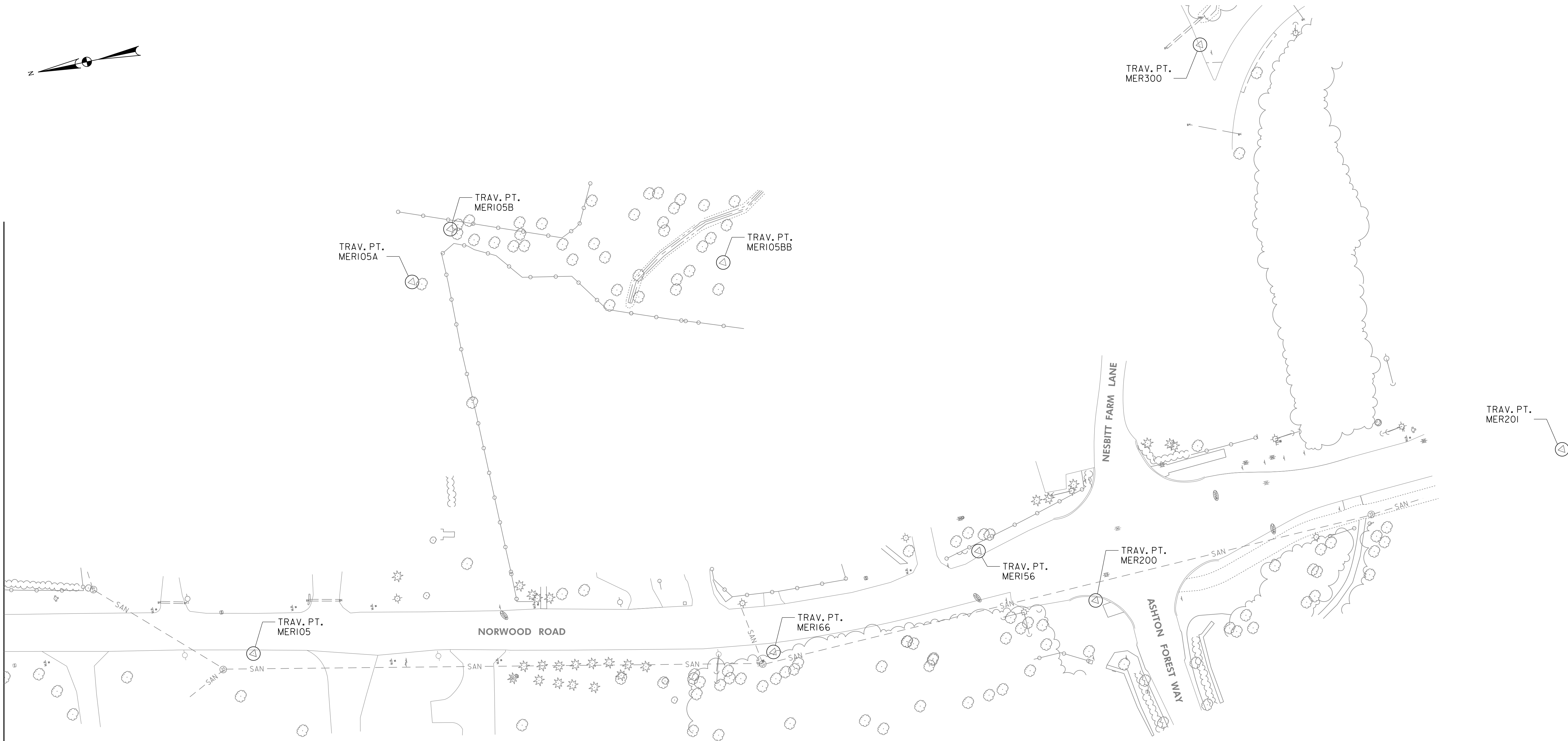
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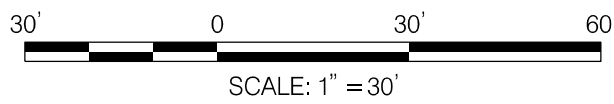


MATCH LINE A-A, SEE SHEET 23



PLAN  
SCALE: 1" = 30'-0"

SURVEY TRAVERSE			
PT.	NORTHING	EASTING	ELEVATION
MER105	539080.3904	1303877.7246	464.74
MER105A	538943.0962	1304073.6173	452.58
MER105B	538914.4247	1304099.4861	451.45
MER105BB	538760.4428	1304046.8256	447.43
MER156	538647.8117	1303848.4967	451.40
MER166	538778.8979	1303815.0966	452.23
MER200	538585.9627	1303805.5648	453.81
MER20I	538297.2542	1303836.0892	443.82
MER300	538457.6040	1304114.7165	440.67



PLOTTED: 4/14/25  
FILE: P:\Projects\1908\1908.04\_Sandy\_Spring\_Bikeway\05\_Roadway\CADD\DR-GUT\_Norwood.dgn

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH	
				Chief, Transportation Planning and Design Section		Date	
				APPROVED			
				Chief, Division of Transportation Engineering		Date	
				DESIGNED BY <u>RA</u>		DRAWN BY <u>NL</u>	
				DATE		CHECKED BY <u>MWM</u>	
						SURVEY DATA - 2	
						SCALE 1"=30'      DATE APRIL, 2025	
						SHEET NO. 28 OF 28	