

GENERAL NOTES

1. THIS FIELD RUN BOUNDARY WAS PERFORMED BY PENNONI ASSOCIATES, INC. ON OR ABOUT APRIL, 2021.
2. AERIAL TOPOGRAPHY WAS PERFORMED BY PENNONI DURING APRIL-MAY, 2021. TOPOGRAPHIC INFORMATION HAS BEEN SUPPLEMENTED BY ANNE ARUNDEL COUNTY AND UTILITY COMPANY GIS INFORMATION.
3. THE EXISTENCE OF VEGETATED OR TIDAL WETLANDS, WATERS OF THE U.S. AND/OR HAZARDOUS WASTES HAS BEEN INVESTIGATED, AND IS SHOWN BASED ON A REPORT PREPARED BY STRAUGHAN ENVIRONMENTAL, DATED _____.
4. THE SPECIMEN TREES SHOWN ON THE PLAN ARE FROM A FOREST STAND DELINEATION PREPARED BY STRAUGHAN ENVIRONMENTAL, DATED _____.
5. UNLESS OTHERWISE INDICATED, THE LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE BASED ON VISIBLE EVIDENCE, OR GIS RECORDS.
6. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS, AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICE MAINS. ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO ANNE ARUNDEL COUNTY OR THE SHA.
7. UTILITY RELOCATION WILL BE PERFORMED BY OTHERS UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS CONSTRUCTION WITH THE CONSTRUCTION OF OTHER CONTRACTORS (INCLUDING BUT NOT LIMITED TO BG&E, VERIZON, AND CABLE TV UTILITY). REFER TO PROJECT MANUAL GENERAL SPECIAL PROVISIONS.
8. THE CONTRACTOR SHALL CALL "MISS UTILITY" 1-800-257-7777 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
9. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
10. THE CONTRACTOR SHALL NOTIFY THE ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS (410) 222-4126, AT LEAST FOURTEEN (14) DAYS PRIOR TO BEGINNING CONSTRUCTION.
11. GRID COORDINATES ARE BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM NAD 83/91. VERTICAL ELEVATIONS ARE BASED UPON NAVD 88.
12. THE CONTRACTOR SHALL ADJUST MANHOLES, WATER, METER VALVES, HAND BOXES, AND OTHER APPURTENANCES TO FINAL GRADE. THE COST OF PERFORMING THESE ACTIVITIES SHALL BE INCIDENTAL TO THE CONTRACT PRICE PAID FOR VARIOUS PAVEMENT ITEMS.
13. UNLESS OTHERWISE NOTED, PIPE ELEVATIONS REFER TO THE PIPE INVERT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING LIGHT POLES, TRAFFIC BARRIER, SIGNS, ETC., DAMAGED OR REMOVED BY HIM DURING CONSTRUCTION.
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION TO THIS PLAN PRIOR TO ANY FIELD CHANGES BEING MADE. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY FIELD CHANGES OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER.
16. ALL WORK SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND AMENDMENTS BY THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT, CONTAINED HEREIN AND THE 2017 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS ISSUED BY THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION.
17. THE DESIGN FOR THIS PROJECT INCORPORATES FACILITIES FOR THE HANDICAPPED IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.
18. WHERE CURB AND GUTTER ENDS ARE EXPOSED, PROVIDE A NOSE DOWN SECTION AT 3:1 SLOPE.
19. IN PAVEMENT AND GRAVEL REMOVAL AREAS, THE CONTRACTOR SHALL REMOVE ALL PAVING AND BASE MATERIALS, BACKFILL WITH COMMON BORROW MATERIAL AND 4" OF TOPSOIL, SEED AND MULCH. THE AREA SHALL BE GRADED TO DRAIN.
20. MATERIAL REMOVED DURING CONSTRUCTION SHALL BECOME THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS.
21. STORM DRAIN AND UTILITY INSTALLATION IN EXISTING PAVEMENT SHALL BE IN ACCORDANCE WITH MD STD. 578.1
22. SUBGRADE DRAINS SHALL BE PLACED WHEN WET SUBGRADE IS ENCOUNTERED AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL USE CIRCULAR PIPE UNDERDRAIN OUTLET TO CONNECT ALL EXISTING AND PROPOSED SUBGRADE DRAIN AND PERFORATED CIRCULAR PIPE UNDERDRAIN TO PROPOSED INLETS.
23. ALL INVERT ELEVATIONS ARE APPROXIMATE. INVERT ELEVATIONS OF INLETS AND PIPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES. ALL PIPES AND DITCHES SHALL BE CONSTRUCTED ON A UNIFORM GRADE BETWEEN INVERT ELEVATIONS NOTED ON THE PLANS, UNLESS INDICATED OTHERWISE ON THE PLANS OR DETAILS OR AS DIRECTED BY THE ENGINEER. THE LOCATION AND LENGTH OF PIPE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE ORDERING.
24. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION OF ANNE ARUNDEL, CONTAINED HEREIN.
25. CONTRACTOR MUST HAND DIG NEAR EXISTING UNDERGROUND UTILITIES WITH LESS THAN OR EQUAL TO 3.0 FEET CLEAR DISTANCE.
26. EXISTING OVERHEAD POWER LINES ARE IN THE VICINITY OF THE PROJECT. AT NO TIME WILL THE POWER BE PERMITTED TO BE SHUT OFF. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY ABSOLUTELY WITH THE MARYLAND HIGH VOLTAGE ACT. IT IS THE CONTRACTOR'S OBLIGATION TO VERIFY THE EXISTING LOCATION OF THE POWER LINES IN THE FIELD AND TO MAINTAIN AND ENFORCE CLEARANCE REQUIREMENTS SPECIFIED IN THE ACT.
27. PROPOSED FENCING SHALL BE BLACK VINYL COATED CHAIN LINK AND PRESSURE TREATED WOOD SPLIT RAIL FENCE. FINAL HEIGHT SHALL BE DETERMINED WITH FUTURE PLANS.
28. PROPOSED RETAINING WALLS SHALL BE LARGE SEGMENTAL BLOCK.

SYMBOL LEGEND

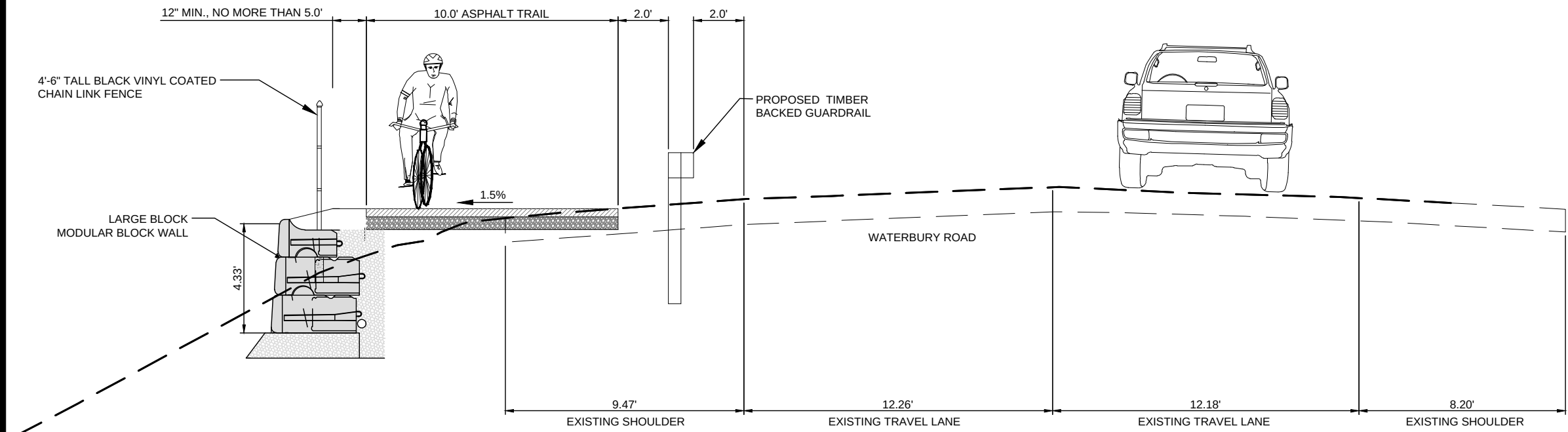
PROPERTY LINE AND RIGHT-OF-WAY
EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
EXISTING TREE LINE
EXISTING SOILS
EXISTING ASPHALT ROADWAY
EXISTING BUILDINGS
EXISTING WATER
EXISTING SEWER
EXISTING OVERHEAD ELECTRIC
EXISTING UNDERGROUND ELECTRIC
EXISTING STORM DRAIN
EXISTING GAS
EXISTING STREAM
EXISTING STREAM BUFFER
EXISTING WETLANDS
EXISTING WETLAND BUFFER
EXISTING CRITICAL AREA LIMITS
SPECIMEN TREE AND CRITICAL ROOT ZONE
EXISTING DRAINAGE AREA
PROPOSED ASPHALT TRAIL
PROPOSED CONCRETE TRAIL
PROPOSED RETAINING WALL
PROPOSED FENCE
PROPOSED RETAINING WALL WITH SPLIT-RAIL FENCE
PROPOSED STORM DRAIN
PROPOSED ROOFTOP DISCONNECT AREA
PROPOSED MICRO-BIORETENTION FACILITY
PROPOSED GRASS SWALE
PROPOSED BIOSWALE
PROPOSED MICRO-INFILTRATION BERM
PROPOSED 2' CONTOUR
PROPOSED 10' CONTOUR
PROPOSED SPOT ELEVATION

LIST OF ABBREVIATIONS

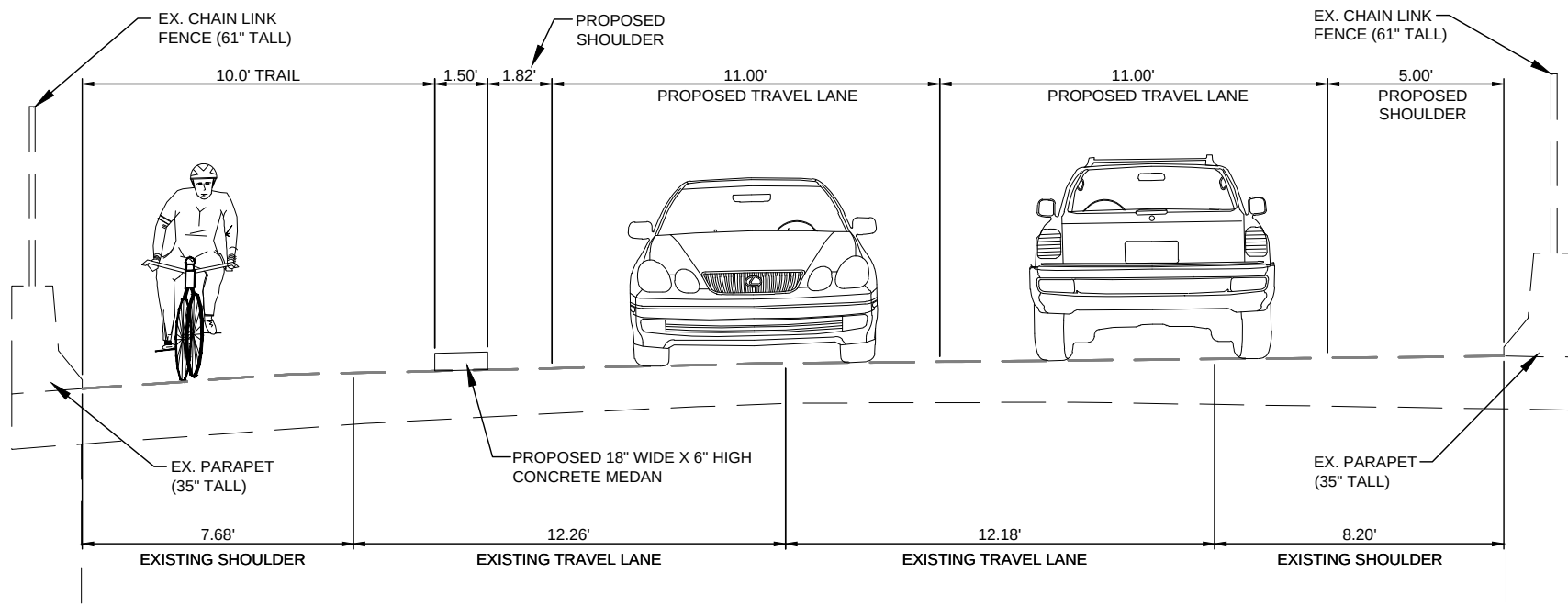
AATUR	-	ABANDONED ACCORDING TO UTILITY RECORDS	P.V.C.	-	POINT OF VERTICAL CURVE (OR POLYVINYL CHLORIDE)
A.D.T.	-	AVERAGE DAILY TRAFFIC	P.V.I.	-	POINT OF VERTICAL INTERSECTION
AHD	-	AHEAD	PVMT.	-	PAVEMENT
BGE	-	BALTIMORE GAS AND ELECTRIC COMPANY	P.V.T.	-	POINT OF VERTICAL TANGENCY
BIT.	-	BITUMINOUS	R	-	RADIUS
BK.	-	BACK	R.C.C.P.	-	REINFORCED CEMENT CONCRETE PIPE
B.M.	-	BENCH MARK	REF.	-	REFERENCE
BW	-	BOTTOM OF WALL	R.S.E.	-	REVERTIBLE SLOPE EASEMENT
B/L	-	BASELINE	RT.	-	RIGHT
C	-	RATE OF TRANSITION	RTE.	-	ROUTE
CC	-	CENTER POINT OF CURVE	R/W	-	RIGHT OF WAY
CATV	-	CABLE TELEVISION	SAN.	-	SANITARY
C&G	-	CURB AND GUTTER	S.D.	-	STORM DRAIN
C.I.P.	-	CAST IN PLACE (OR CURB INLET PROTECTION)	S/E	-	SUPER ELEVATION
C.I.P.	-	CORRUGATED METAL PIPE	S.H.A.	-	STATE HIGHWAY ADMINISTRATION
C.S.P.	-	CORRUGATED STEEL PIPE	SMH.	-	SEWER MANHOLE
C.O.	-	CLEAN OUT	S.S.D.	-	STOPPING SIGHT DISTANCE
COMB.	-	COMBINATION	STA.	-	STATION
COMM.	-	COMMUNICATION	STD.	-	STANDARD
CONSTR.	-	CONSTRUCTION	STRUCT.	-	STRUCTURE
CORR.	-	CORRECTION	T	-	TELEPHONE
DATUR	-	DEPICTED ACCORDING TO UTILITY RECORDS	TC	-	TRAFFIC CONTROL
DWG.	-	DRAWING	T.C.A.	-	TEMPORARY CONSTRUCTION EASEMENT
Dc	-	DEGREE OF CURVE	T.C.P.	-	TRAFFIC CONTROL PLANS
Δ	-	DELTA (CENTRAL ANGLE), DEGREES	T.H.	-	TEST HOLE
D.H.V.	-	DESIGN HOUR VOLUME	TW	-	TOP OF WALL
D.I.	-	DROP INLET	TYP.	-	TYPICAL
DIA.	-	DIAMETER	U.D.	-	UNDERDRAIN PIPE
D.S.	-	DESIGN SPEED	WB	-	WESTBOUND
E	-	ELECTRIC	W.M.	-	WATER METER
EB	-	EASTBOUND	W.S.	-	WRAPPED STEEL
EOI	-	END OF INFORMATION	W.U.S.	-	WATERS OF THE UNITED STATES
EORI	-	END OF RECORD INFORMATION	W.V.	-	WATER VALVE
ERCCP	-	ELLIPITICAL REINFORCED CEMENT CONCRETE PIPE	V.C.	-	LENGTH OF VERTICAL CURVE
ES	-	END STRUCTURE			
EW	-	ENDWALL OR EACH WAY			
EX.,EXIST-	-	EXISTING			
F.O.	-	FIBER OPTIC			
F.S.	-	FULL SUPER			
GA.	-	GAUGE OR GAGE			
G.H.C.	-	GAS HOUSE CONNECTION			
G.V.	-	GAS VALVE			
HDWL	-	HEADWALL			
HERCCP	-	HORIZONTAL ELLIPITICAL REINFORCED CEMENT CONCRETE PIPE			
H.H.	-	HANDHOLE			
H.S.A.	-	HEADLIGHT SIGHT DISTANCE			
H.P.	-	HIGH POINT			
I	-	INLET			
INV.	-	INVERT			
L	-	LENGTH			
L.P.	-	LOW POINT (OR LIGHT POLE)			
L.S.	-	LEVEL SECTION			
LT.	-	LEFT			
M.B.	-	MAIL BOX			
MD	-	MARYLAND			
MDE	-	MARYLAND DEPARTMENT OF THE ENVIRONMENT			
M.H.	-	MANHOLE			
N/A	-	NOT APPLICABLE			
NO.	-	NUMBER			
N.S.	-	NORMAL SECTION			
O.C.	-	ON CENTER			
O/S	-	OFFSET			
P.C.	-	POINT OF CURVE			
P/C	-	POINT OF CROWN			
P.C.C.	-	POINT OF COMPOUND CURVE OR PORTLAND CEMENT CONCRETE			
P/G.E.	-	PROFILE GRADE ELEVATION			
P.G.L.	-	PROFILE GRADE LINE			
P./G.L.	-	PROFILE GROUND LINE			
P.H.	-	PUNCH HOLE			
P.I.	-	POINT OF INTERSECTION			
P.O.C.	-	POINT ON CURVE			
P.O.T.	-	POINT ON TANGENT			
P/R	-	POINT OF ROTATION			
P.R.C.	-	POINT OF REVERSE CURVATURE			
P.T.	-	POINT OF TANGENT			

PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 2024-11-26	
#	REVISIONS DESCRIPTION APPROVED BY DATE	APPROVED DATE _____ CHIEF ENGINEER _____ APPROVAL DATE _____ ASSISTANT CHIEF ENGINEER _____	APPROVED DATE _____ PROJECT MANAGER _____ APPROVED DATE _____ CHIEF, RIGHT OF WAY SERVICES _____
		SCALE: 1"=40' DRAWN BY: HJMT CHECKED BY: JSN SHEET <u>3</u> of <u>28</u> PROJECT #: P37200B CONTRACT #: #P37200B	
		GENERAL NOTES, LEGENDS, AND ABBREVIATIONS SOUTH SHORE PHASE IV TAX MAP 37, 38 & 44 WATERBURY RD., MD 21032 TO HONEYSUCKLE LN., MD 21401 ANNE ARUNDEL COUNTY, MD	

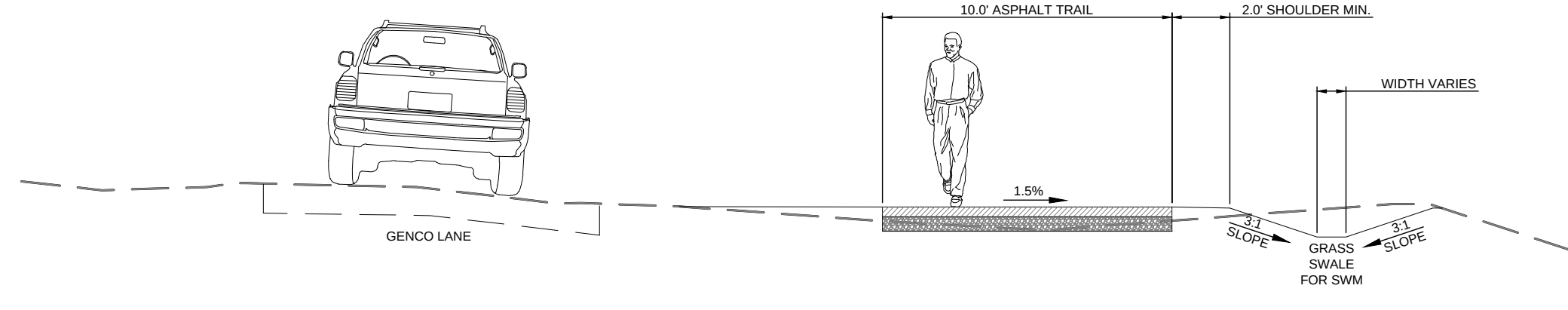
U:\Mountbain\ACAD\2008 - South Shore Trail Phase 4\DESIGN_SHEETS\SCHEMATIC PLANS\200917.dwg PLOTTED: 1/28/2024 2:28 PM BY: Camille Rodriguez PROJECT STATUS: — GPW No: 0



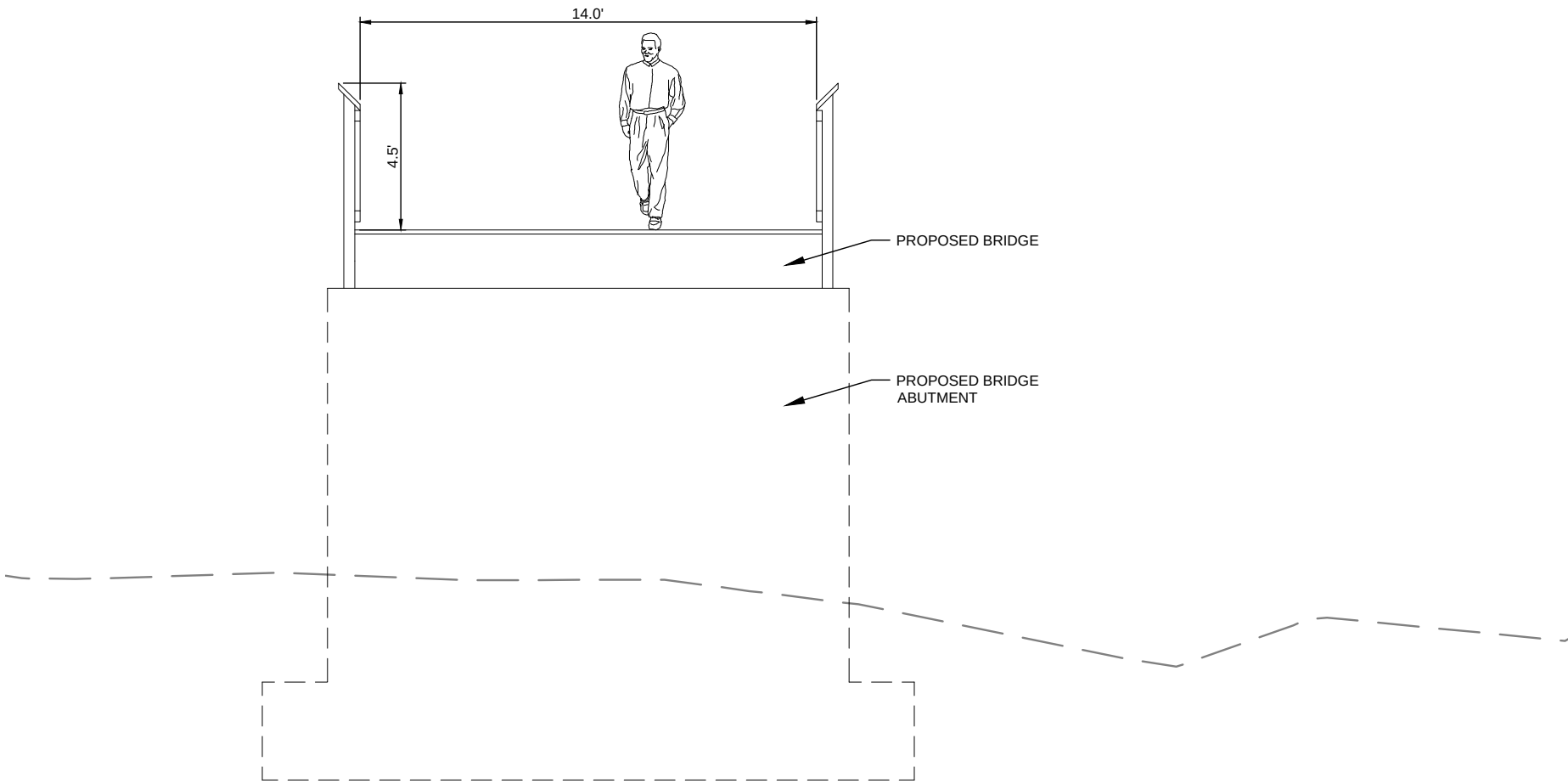
SECTION 1
WATERBURY ROAD
SCALE: 1"=5'



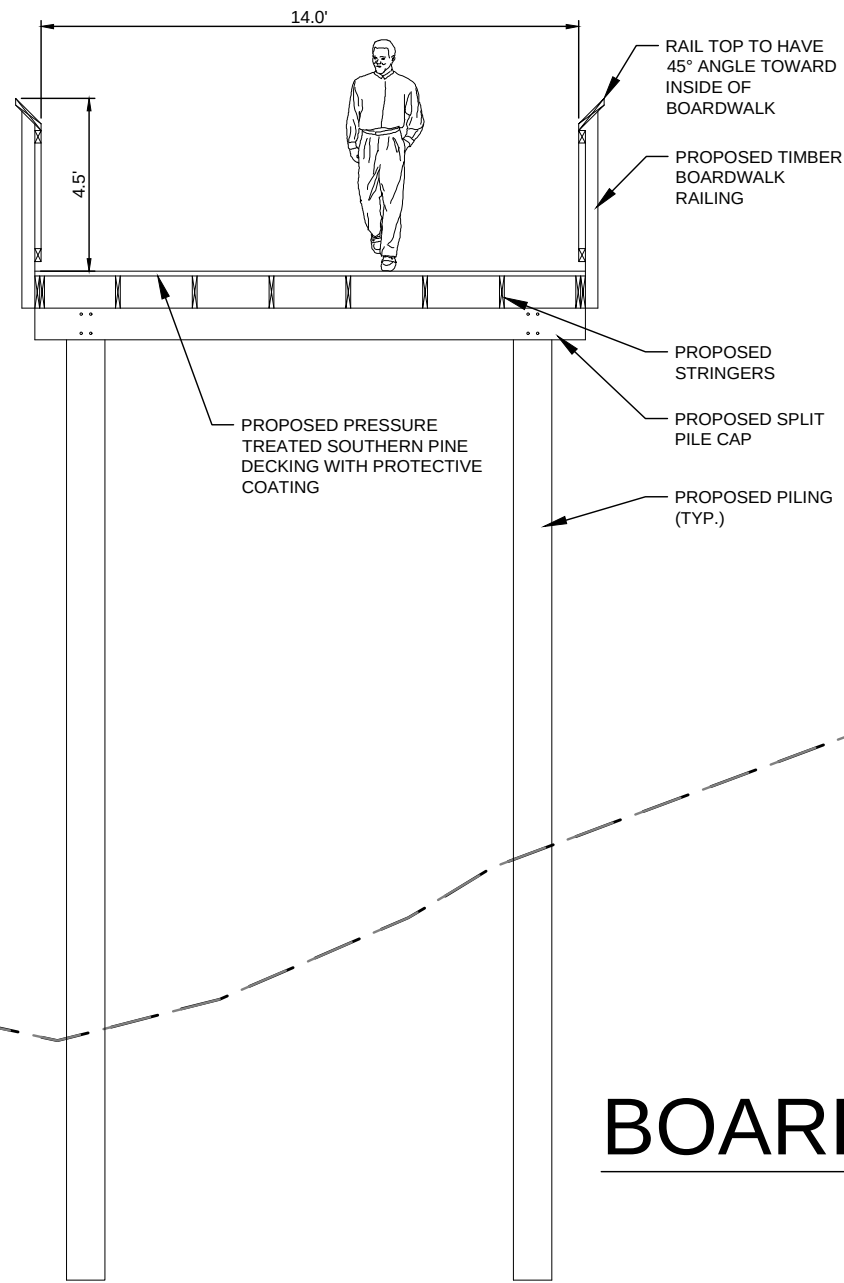
SECTION 2
WATERBURY ROAD OVERPASS
SCALE: 1"=5'



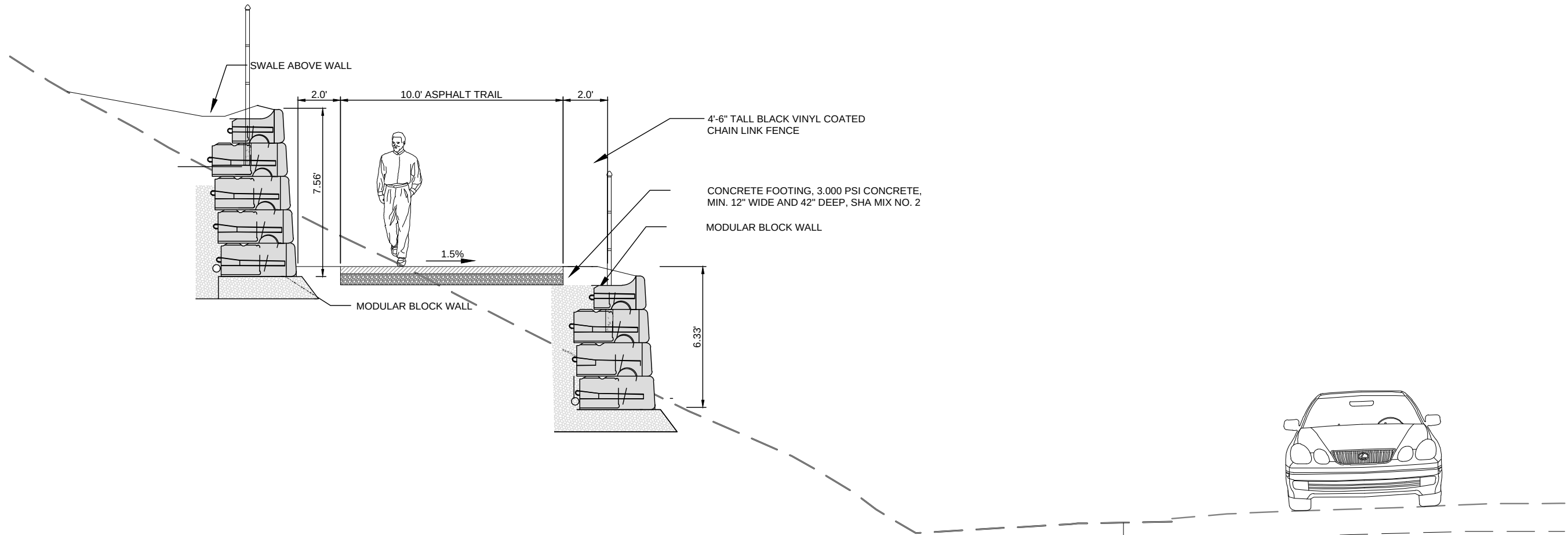
SECTION 3
GENCO LANE
SCALE: 1"=5'



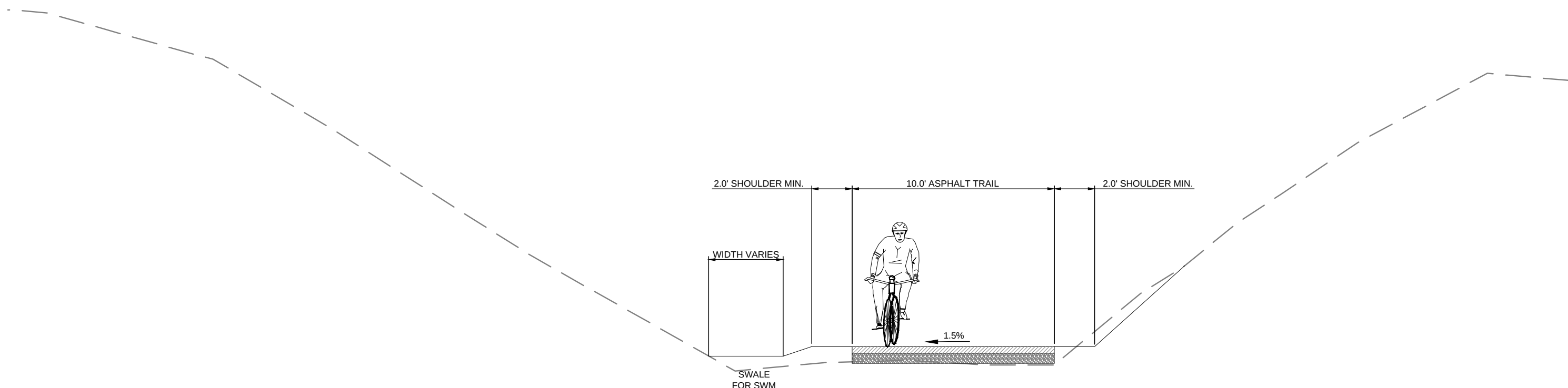
SECTION 4
BRIDGE AT EAST END OF GENCO LANE
SCALE: 1"=5'



SECTION 5
BOARDWALK AT STATION 40+00
SCALE: 1"=5'



SECTION 6
TYPICAL BENCHED TRAIL SECTION
SCALE: 1"=5'



SECTION 7
TYPICAL TRAIL SECTION BETWEEN EMBANKMENTS
SCALE: 1"=5'



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#	REVISIONS DESCRIPTION	APPROVED BY	DATE	PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282	

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 2024-11-26					
APPROVED	DATE	APPROVED	DATE	SCALE: 1"=40'	TYPICAL SECTIONS AND DETAILS SOUTH SHORE PHASE IV TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUOKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: HJMT	
APPROVAL	DATE	APPROVED	DATE	CHECKED BY: JSN	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES		SHEET 4 of 28	
GP #: #				PROJECT #: P372008	CONTRACT #: #P372008
DWG NO: ####					

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GPW No:

ANNE ARUNDEL COUNTY FOREST CONSERVATION WORKSHEET (In Acres)					
Variables	Unique Tract 1	Unique Tract 2	Unique Tract 3	Unique Tract 4	Unique Tract 5
Site Information					
A. Growth Management Area	Outside Priority Funding Area	0	0	0	0
B. Land Use Type	Institutional	0	0	0	0
C. Total Unique Tract Area	5.6	0.0	0.0	0.0	0.0
D. Universal Deductions (Critical Area or 100-Yr Floodplain)	3.4	0.0	0.0	0.0	0.0
E. Impervious Surface Deductions for Targeted Growth and Priority Funding Areas	0.0	0.0	0.0	0.0	0.0
F. Existing Forest Cover within Net Unique Tract Area	0.4	0.0	0.0	0.0	0.0
G. Proposed Forest Clearing within Net Unique Tract Area	0.4	0.0	0.0	0.0	0.0
H. Net Unique Tract Area = (C)-(D)-(E)	2.2	0.0	0.0	0.0	0.0
I. Total Net Tract Area less than or equal to 5 Acres?	Yes	Yes	Yes	Yes	Yes
Key for lookup table	Outside Priority Funding AreaInstitutionalYes	Yes	Yes	Yes	Yes
I. Conservation Threshold	20%	0%	0%	0%	0%
J. Afforestation Threshold	15%	0%	0%	0%	0%
Forest Conservation					
K. Conservation Threshold Area = (H) X (I)	0.4	0.0	0.0	0.0	0.0
L. Area of Forest Above Conservation Threshold = (F) - (K)	0.0	0.0	0.0	0.0	0.0
M. Breakeven Point (Amount of forest that must be retained so that no mitigation is required.)	0.4	0.0	0.0	0.0	0.0
If the Area of Forest Above Conservation Threshold (L) is greater than 0, then M = ((0.3333) X (L)) + (K). If the Area of Forest Above Conservation Threshold is equal to 0, then M = (F).					
N. Forest Clearing Permitted without Mitigation = (F) - (M)	0.0	0.0	0.0	0.0	0.0
O. Proposed Forest Retention = (F) - (G)	0.0	0.0	0.0	0.0	0.0
P. Reforestation for Retention Above the Threshold	0.0	0.0	0.0	0.0	0.0
If Proposed Forest Clearing (G) is > Area of Forest Above Conservation Threshold (L), then (P) = (L) X (0.5). If not, then (P) = (G) X (0.5).					
Q. Credit for Retention Above the Threshold	0.0	0.0	0.0	0.0	0.0
If Proposed Forest Clearing (G) is > Area of Forest Above Conservation Threshold (L), then (R) = 0. If not, then (R) = (L) - (G).					
R. Reforestation for Retention Below the Threshold	0.9	0.0	0.0	0.0	0.0
If Proposed Forest Clearing (G) < Area of Forest Above Conservation Threshold (L), then (R) = 0. If not, then (R) = ((G) - (L)) X 2					
S. Total Reforestation Required = (P) + (R) - (Q)	0.9	0.0	0.0	0.0	0.0
T. Afforestation Threshold Area = (H) X (J)	0.3	0.0	0.0	0.0	0.0
U. Total Afforestation Required	0.0	0.0	0.0	0.0	0.0
If Existing Forest Cover (F) < Afforestation Threshold Area (T), then (U) = (T) - (F). If not, then (U) = 0.					
V. Total Mitigation Required By Tract = (S) + (U)	0.9	0.0	0.0	0.0	0.0

Total Net Tract Area

2

Total Mitigation Required for Site (Acres) *

0.9

FOREST CONSERVATION NARRATIVE

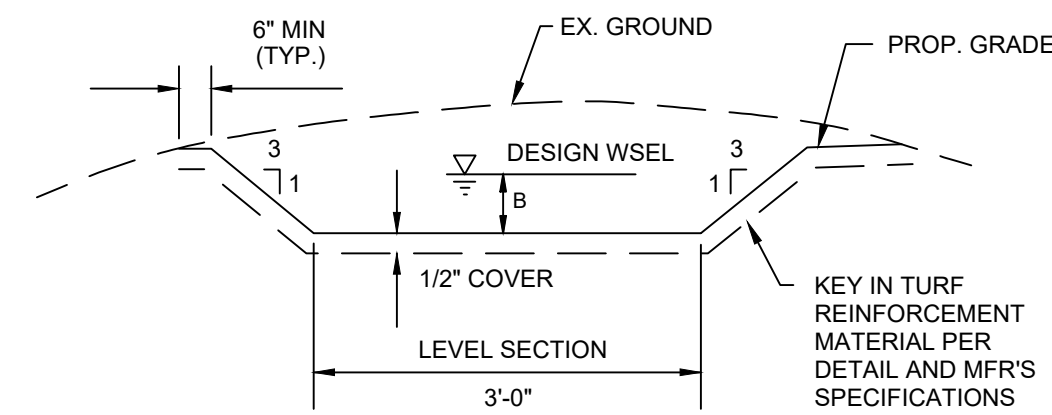
THE PROPOSED SOUTH SHORE PHASE IV TRAIL ALIGNMENT RUNS ALONG WATERBURY ROAD, GENCO ROAD, INTERSTATE 97 AND GENERALS HIGHWAY IN CROWNSVILLE AND ANNAPOLIS, MD. THE PROPOSED TRAIL IS APPROXIMATELY 3.90 MILES LONG. THE NET TRACT AREA - THE LIMITS OF DISTURBANCE, IS APPROXIMATELY 5.60 ACRES AND CONTAINS 0.40 ACRES OF FOREST. THE WIDTH OF THE RIGHT-OF-WAY CORRIDOR THAT WILL CONTAIN THE TRAIL ALIGNMENT RANGES BETWEEN 40 FEET TO 360 FEET.

CLEARING OF APPROXIMATELY 0.40 ACRES OF FOREST IS PROPOSED WITH THIS PROJECT. REFORESTATION WITHIN THE LIMITS OF DISTURBANCE MAY BE PROPOSED WITH THIS PROJECT.

GP #: #

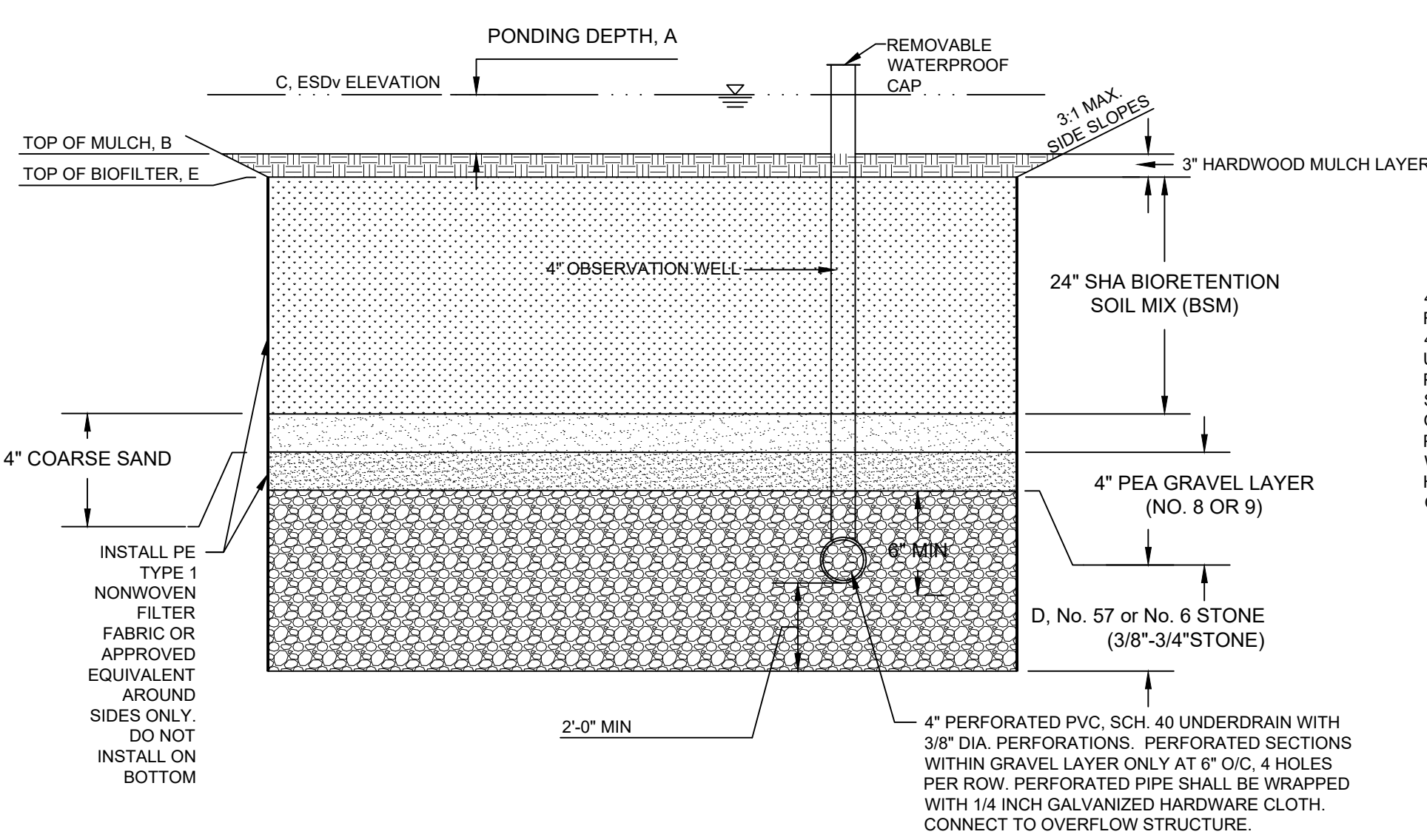
DWG NO: ####

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		DEPARTMENT OF PUBLIC WORKS			
		2024-11-26			
		APPROVED	DATE	APPROVED	DATE
		CHIEF ENGINEER		PROJECT MANAGER	
		APPROVAL	DATE	APPROVED	DATE
		ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	
				SCALE: 1"=40'	
				DRAWN BY: HJMT	
				CHECKED BY: JSN	
				SHEET 6 of 28	
				PROJECT #: P372008	
				CONTRACT #: #P372008	
		FOREST CONSERVATION NOTES AND TABULATIONS			
		SOUTH SHORE PHASE IV			
		TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD			

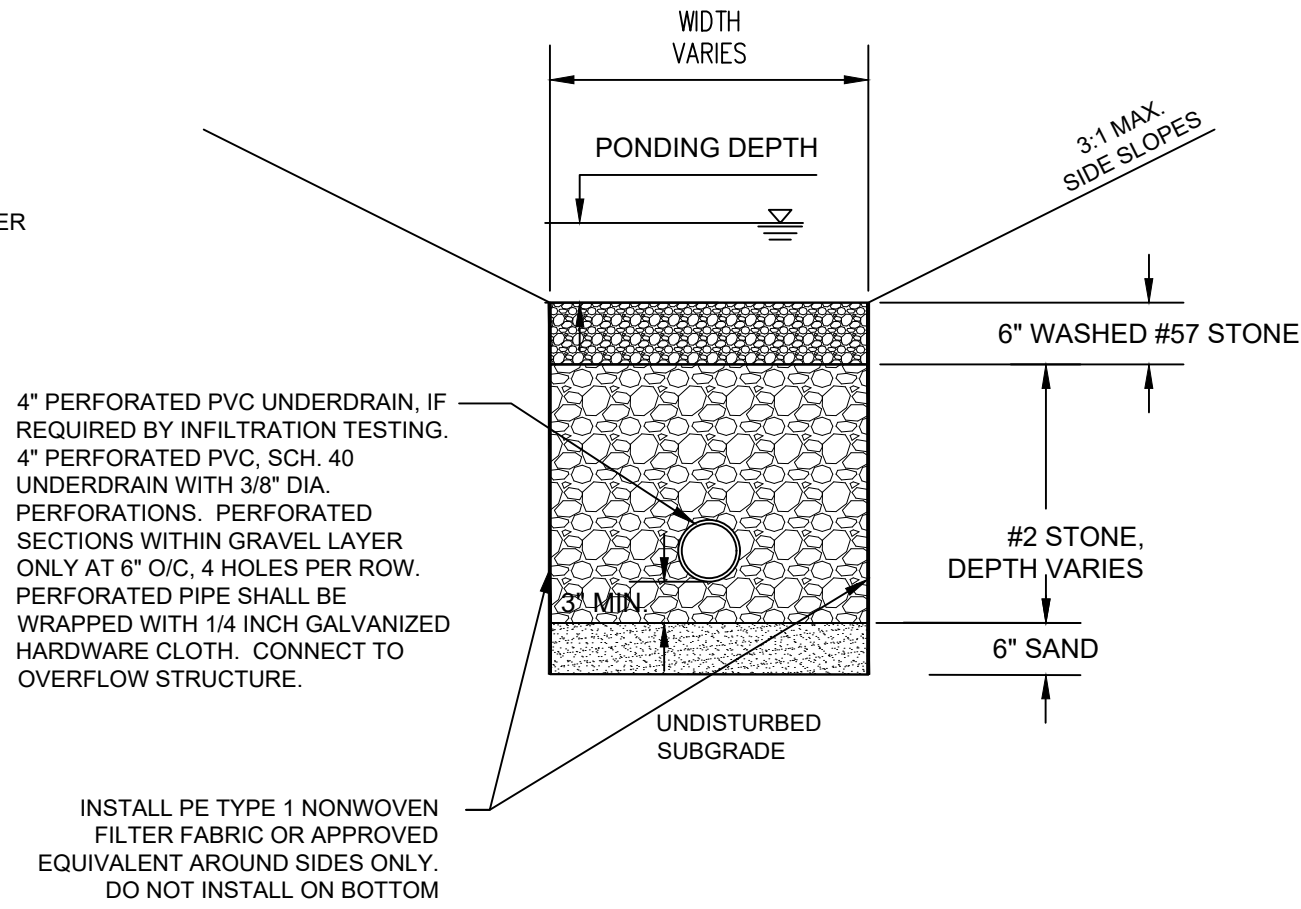


- NOTES
1. INSTALL THE MATERIAL PER THE MANUFACTURER'S INSTRUCTIONS INCLUDING SURFACE PREPARATION AND STAPLING. IT IS VERY IMPORTANT THAT THE MATERIAL BE INSTALLED IN GOOD CONTACT WITH THE GROUND WITH NO WRINKLES OR VOID SPACES BELOW THE FABRIC. STAPLES MUST BE PLACED IN A DIAMOND PATTERN APPROXIMATELY 18" APART.
 2. FILL VOIDS IN THE MATERIAL WITH TOPSOIL BEFORE SODDING OR SEEDING DO NOT PLACE MORE THAN ONE HALF INCH (1/2") OF TOPSOIL OVER THE MATERIAL. THE MATERIAL MUST BE WITHIN THE ROOT ZONE FOR IT TO FUNCTION PROPERLY.
 3. MATERIAL MUST BE ENKAMAT 7010, ENKAMAT 7020, TENSAR TM-3000, PYRAMAT, OR OTHER MCDPS APPROVED EQUIVALENT. TO BE CONSIDERED AS AN EQUIVALENT, THE MATERIAL MUST BE A SINGLE BONDED TURF REINFORCEMENT MATERIAL. PROPOSED ALTERNATIVES MUST BE APPROVED BY MCDPS IN WRITING PRIOR TO PLACEMENT.
 4. TURF REINFORCEMENT IS NOT MEANT TO SERVE AS AN EROSION CONTROL MAT. IF NECESSARY, A BIOGRADABLE MATERIAL SUCH AS EXVELSIOIR MAY BE PLACE OVER THE PREPARED SEED BED TO HOLD THE SEED IN PLACE. THE PURPOSE OF THE TURF REINFORCEMENT MATERIAL IS TO ADD STRENGTH TO THE ROOT SYSTEM AFTER GERMINATION.

1
7 GRASS SWALE WITH TURF REINFORCEMENT TYPICAL SECTION
NOT TO SCALE



2
7 MICROBIORETENTION FACILITY TYPICAL CROSS SECTION
NOT TO SCALE



3
7 MICRO-INFILTRATION TYPICAL CROSS SECTION
NOT TO SCALE

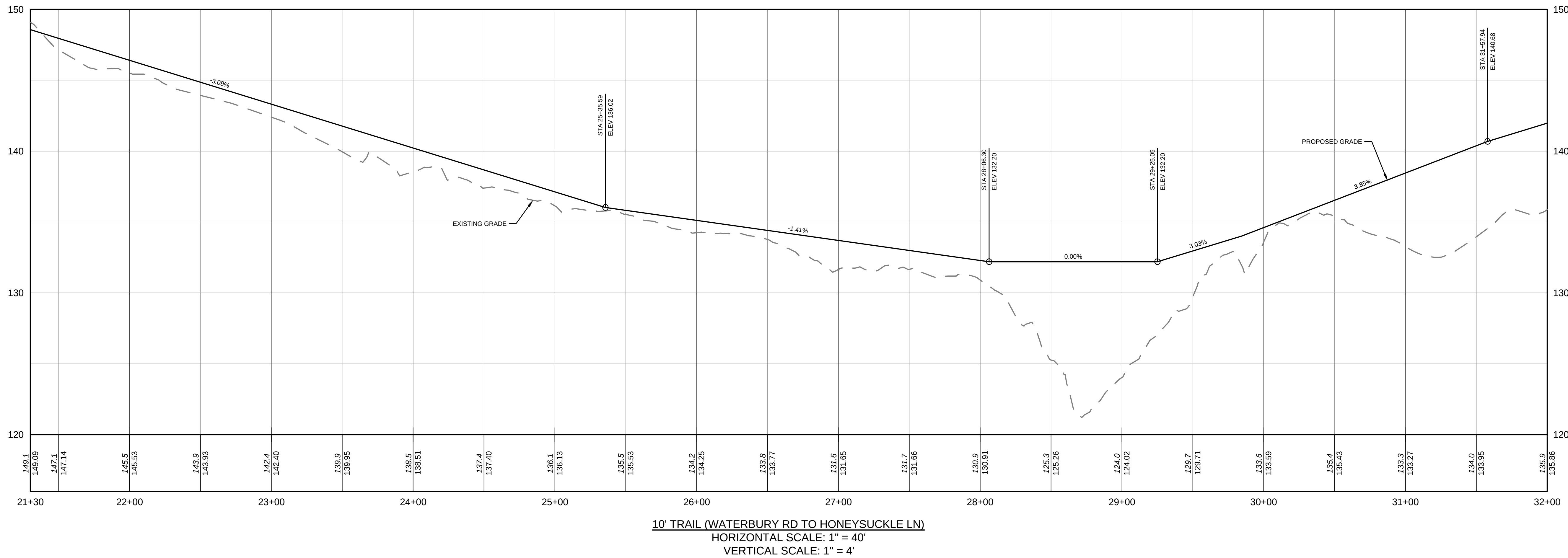
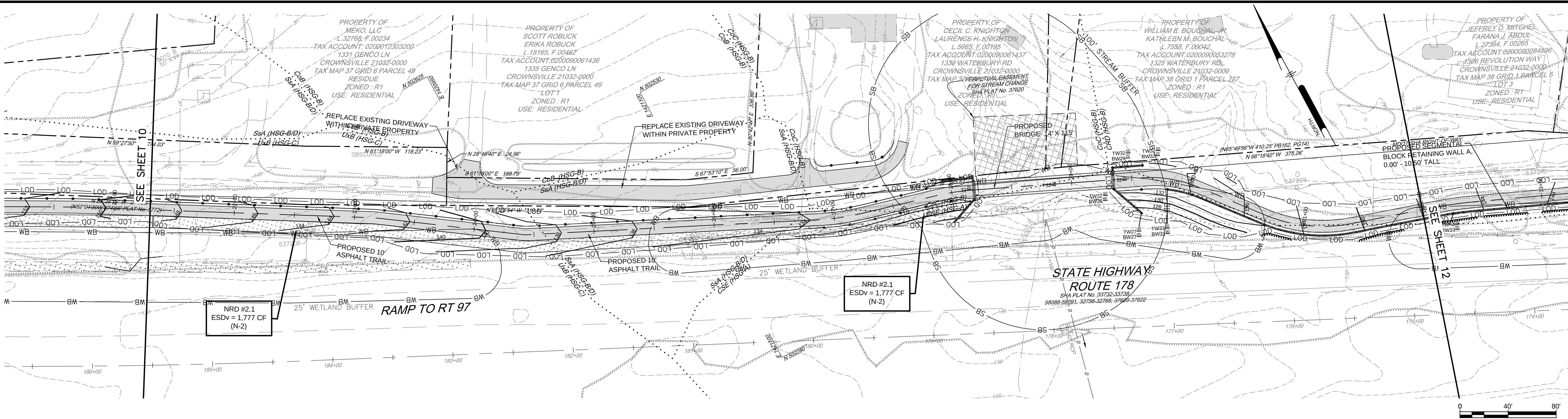
OVERALL SWM SUMMARY TABLE

	ESDv REQUIRED (CF)	ESDv PROVIDED (CF)	PROPOSED LOD	PE REQUIRED	PE PROVIDED
SEVERN WATERSHED	12,645	13,405	220,125	1.80	2.14
SOUTH RIVER WATERSHED	14,605	15,995	365,125	1.60	2.07

PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____																									
<table><tr><th>REVISIONS</th><th>APPROVED</th></tr><tr><th>#</th><th>DESCRIPTION</th></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>	REVISIONS	APPROVED	#	DESCRIPTION																			<table><tr><td>Pennoni</td></tr><tr><td>PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282</td></tr></table>	Pennoni	PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282
REVISIONS	APPROVED																								
#	DESCRIPTION																								
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PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282																									

ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
2024-11-26			
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1"=40'	TYPICAL STORMWATER MANAGEMENT DETAILS
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: HJMT	
APPROVAL _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: JSN	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY SERVICES _____	SHEET 7 of 28	
		PROJECT #: P372008	SOUTH SHORE PHASE IV
		CONTRACT #: #P372008	
		TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD	

U:\Mountainside\ACAD\2008 - South Shore Trail Phase 4\DESIGN SHEETS\SCHEMATIC PARCELS 011.dwg PLOTTED: 1/26/2024 1:12 PM BY: Camille Rodriguez PLOTTED BY: Camille Rodriguez PROJECT STATUS: — GPW No: 1



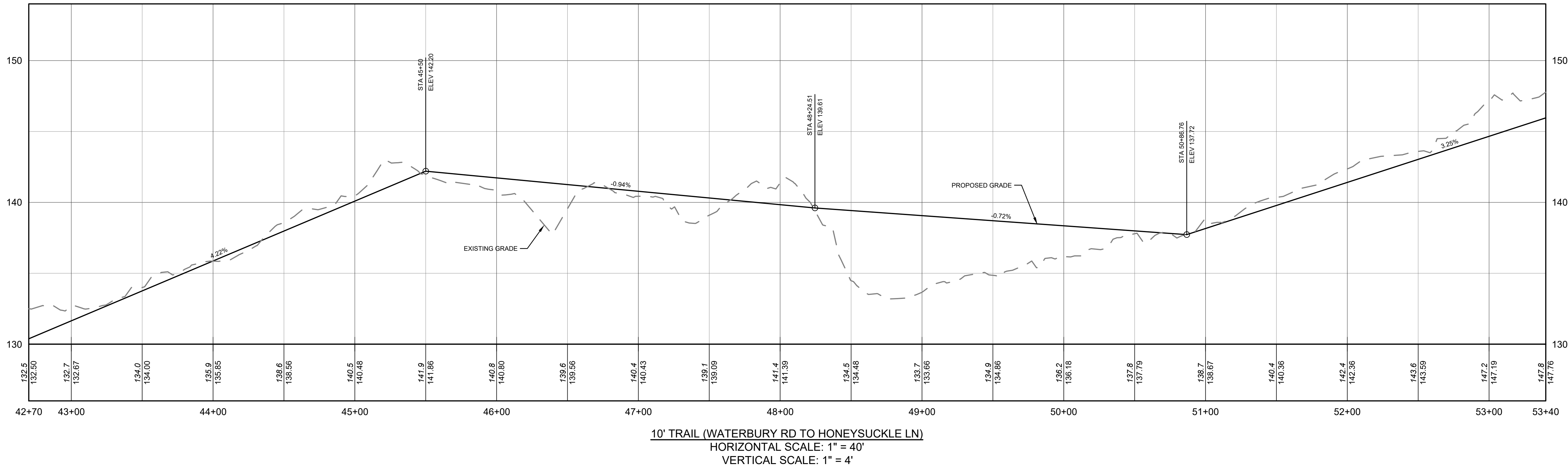
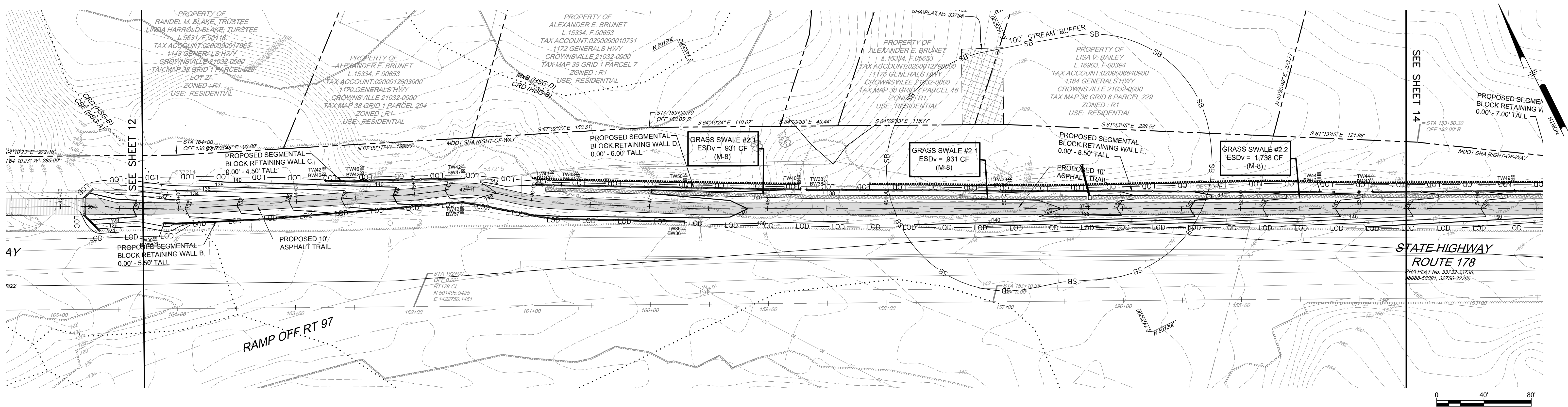
PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____			
#	REVISIONS DESCRIPTION	APPROVED BY	DATE



PENNONI ASSOCIATES INC.
8890 McGaw Road, Suite 100
Columbia, MD 21045
T 410.997.8900 F 410.997.9282

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 2024-11-26			
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE SOUTH SHORE PHASE IV TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: HJMT	
APPROVAL _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: JSN	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY SERVICES _____	SHEET 11 of 28 PROJECT #: P372008 CONTRACT #: #P372008	

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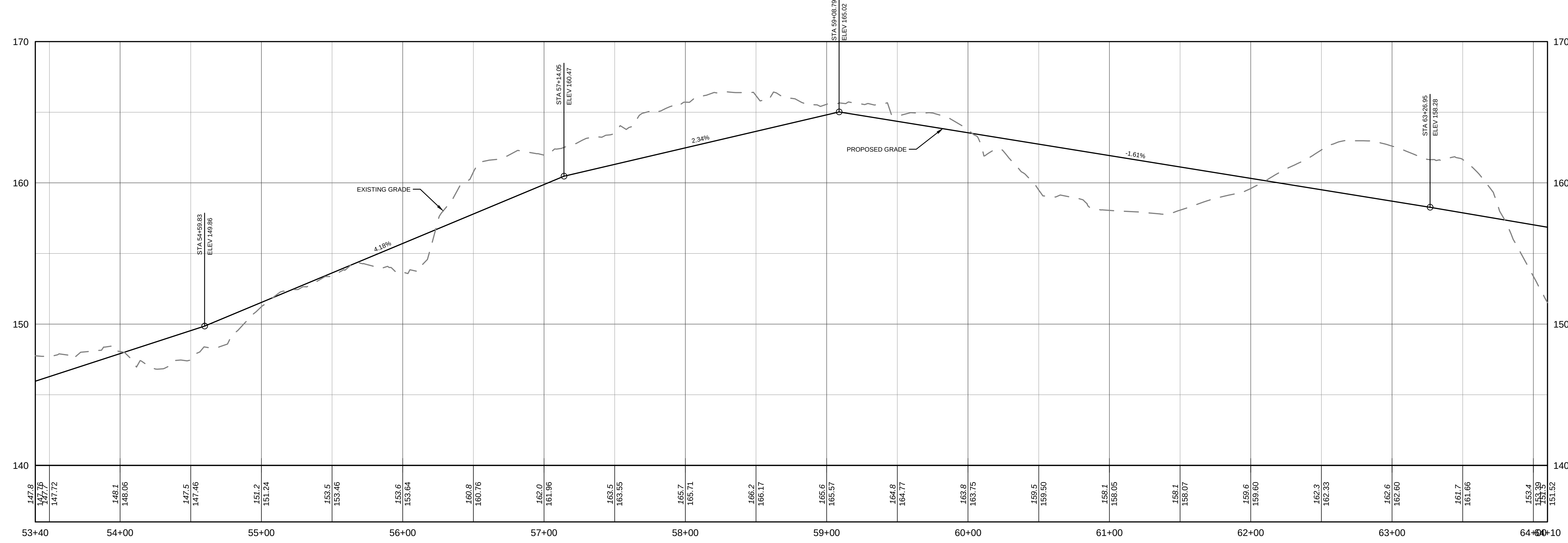
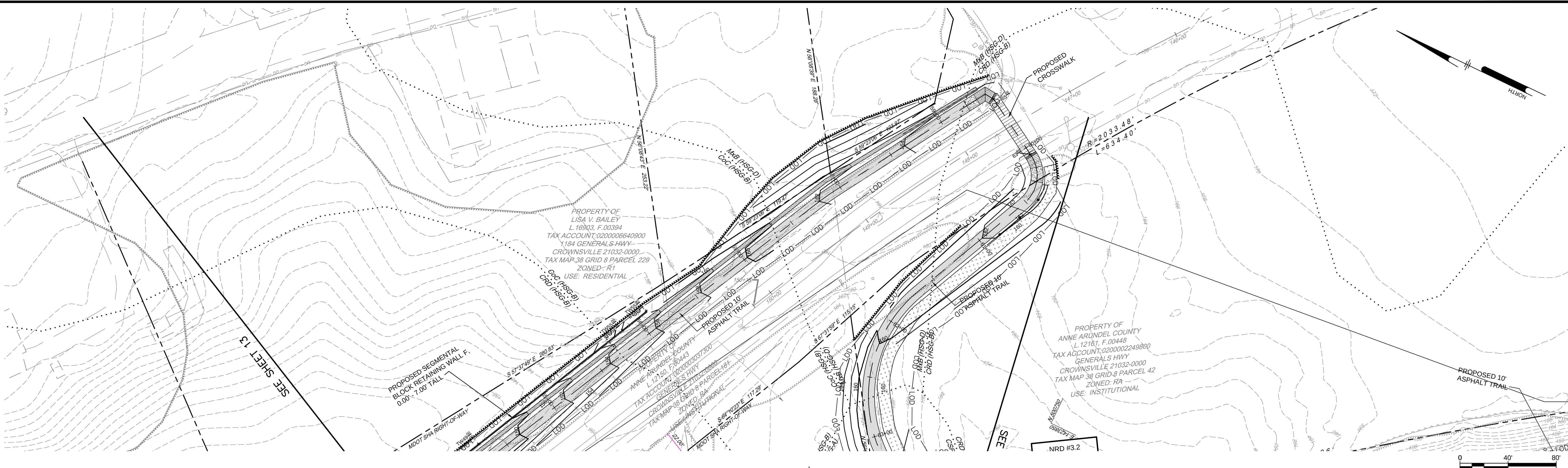


PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____		
#	REVISIONS DESCRIPTION	APPROVED BY DATE

ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			2024-11-26
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVAL	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	
		SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE
		DRAWN BY: HJMT	
		CHECKED BY: JSN	
		SHEET 13 of 28	SOUTH SHORE PHASE IV
		PROJECT #: P372008	
		CONTRACT #: #P372008	
		TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD	

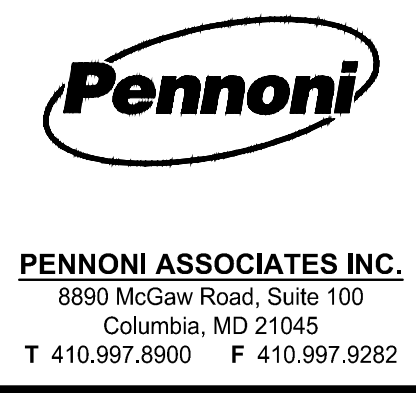
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GPW No:



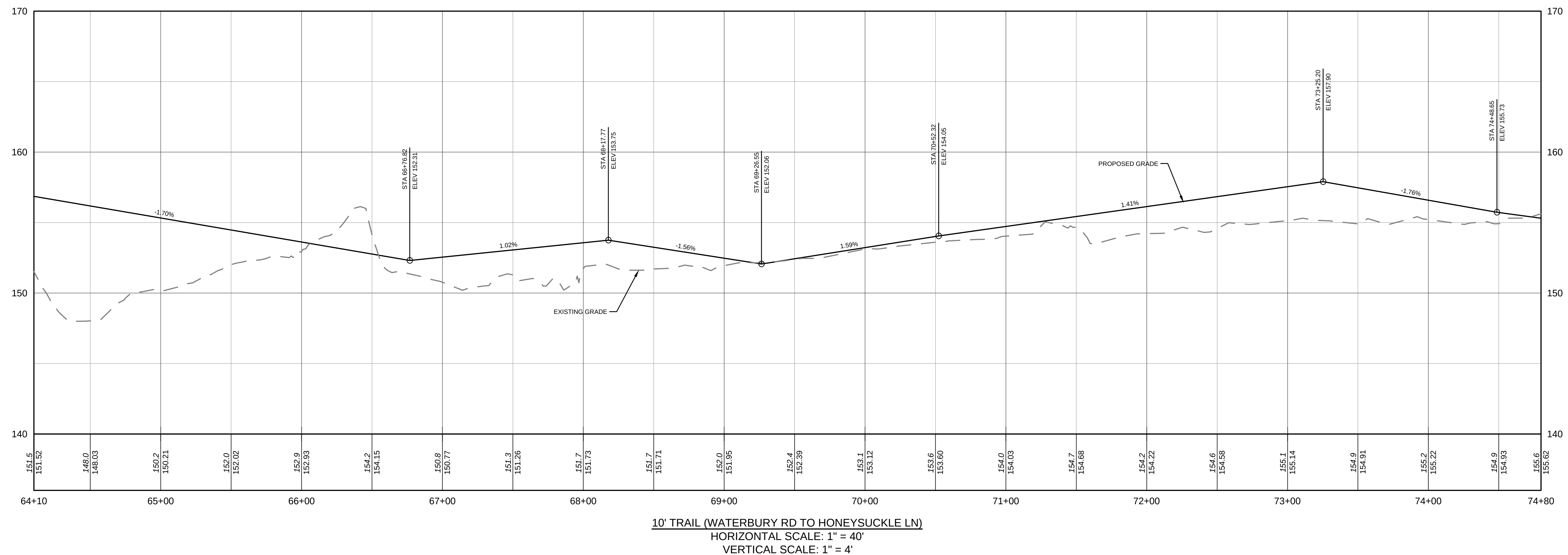
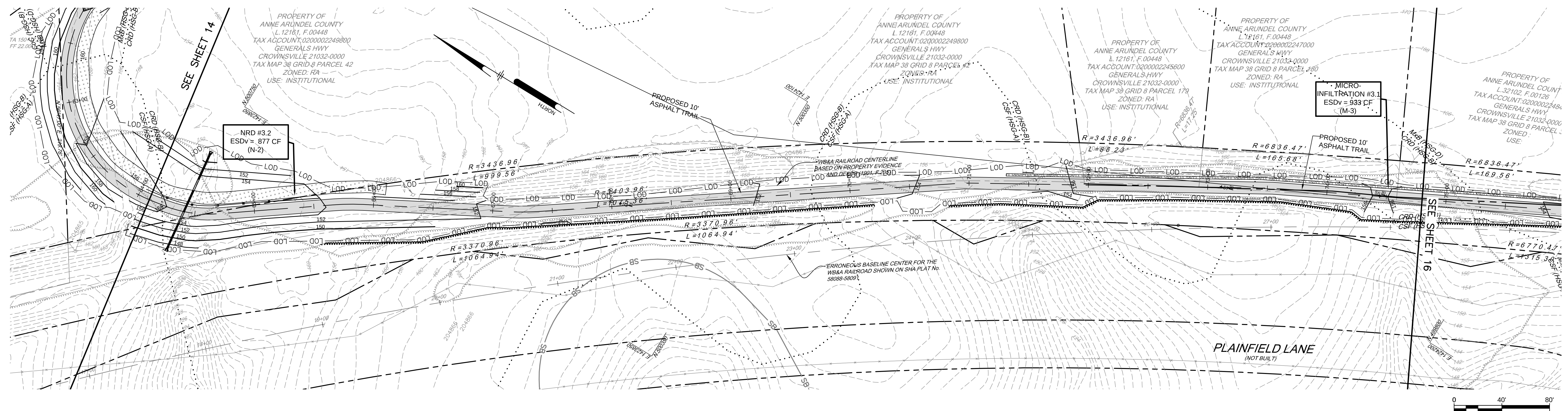
10' TRAIL (WATERBURY RD TO HONEYSUCKLE LN)
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____	
REVISIONS	APPROVED
# DESCRIPTION	BY DATE



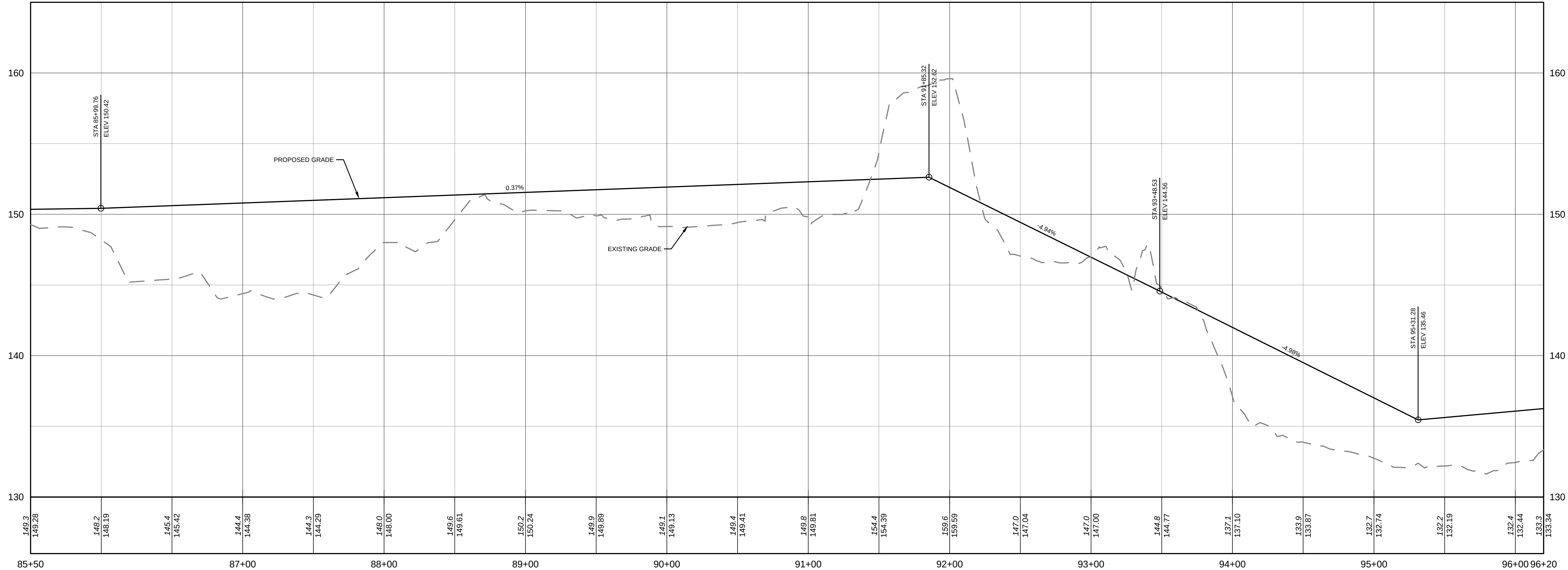
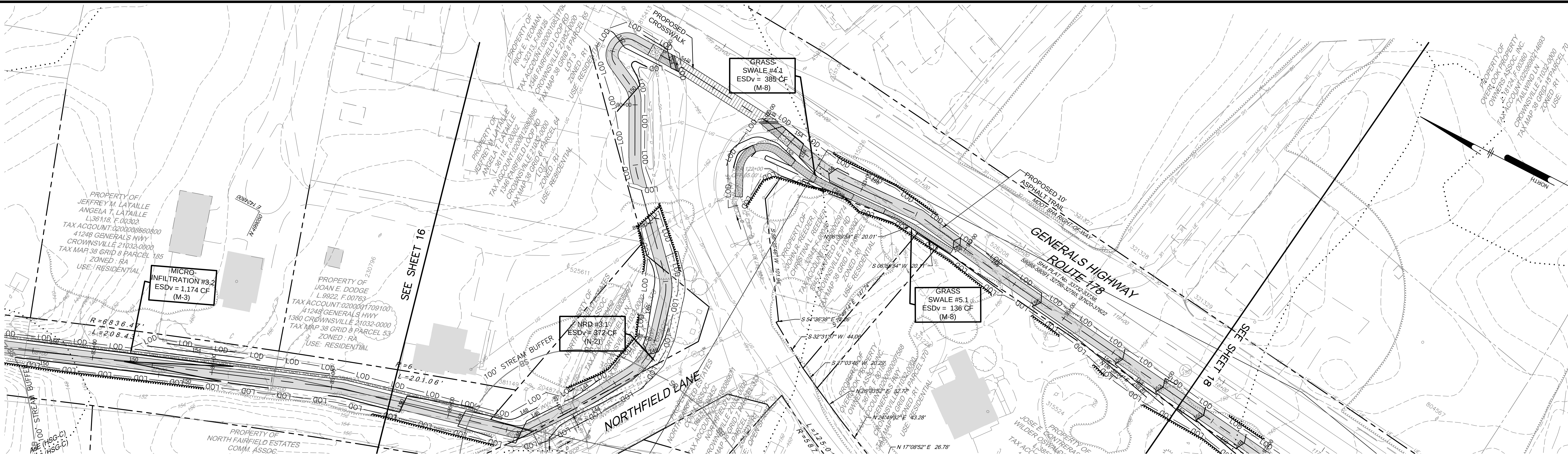
ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
APPROVED _____ DATE _____		APPROVED _____ DATE _____	SCALE: 1"=40'
CHIEF ENGINEER _____		PROJECT MANAGER _____	DRAWN BY: HJMT
APPROVAL _____ DATE _____		APPROVED _____ DATE _____	CHECKED BY: JSN
ASSISTANT CHIEF ENGINEER _____		CHIEF, RIGHT OF WAY SERVICES _____	SHEET 14 of 28
			PROJECT # P372008
			CONTRACT # P372008
			SITE, GRADING PLAN, AND PROFILE
			SOUTH SHORE PHASE IV
			TAX MAP 37, 38 & 44
			WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401
			ANNE ARUNDEL COUNTY, MD

GP #: # DWG NO: ###

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ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
2024-11-26			
APPROVED	DATE	APPROVED	DATE
		SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE
		DRAWN BY: HJMT	
CHIEF ENGINEER		PROJECT MANAGER	
APPROVAL	DATE	APPROVED	DATE
		CHECKED BY: JSN	SOUTH SHORE PHASE IV
		SHEET 15 of 28	
ASSISTANT CHIEF ENGINEER		PROJECT #: P372008	TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYCREEKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD
		CONTRACT #: #P372008	
		CHIEF, RIGHT OF WAY SERVICES	

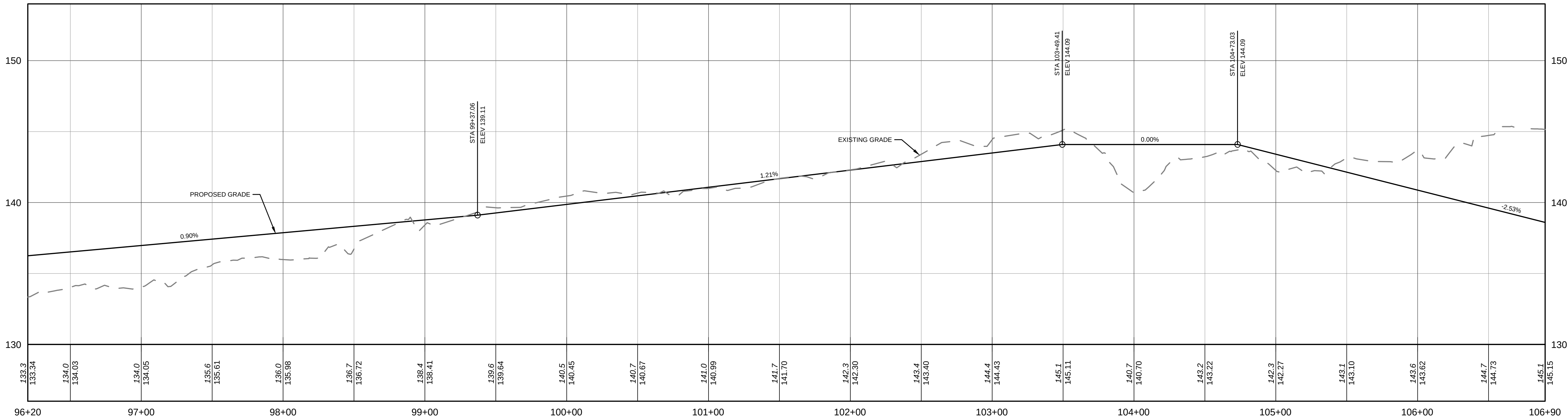
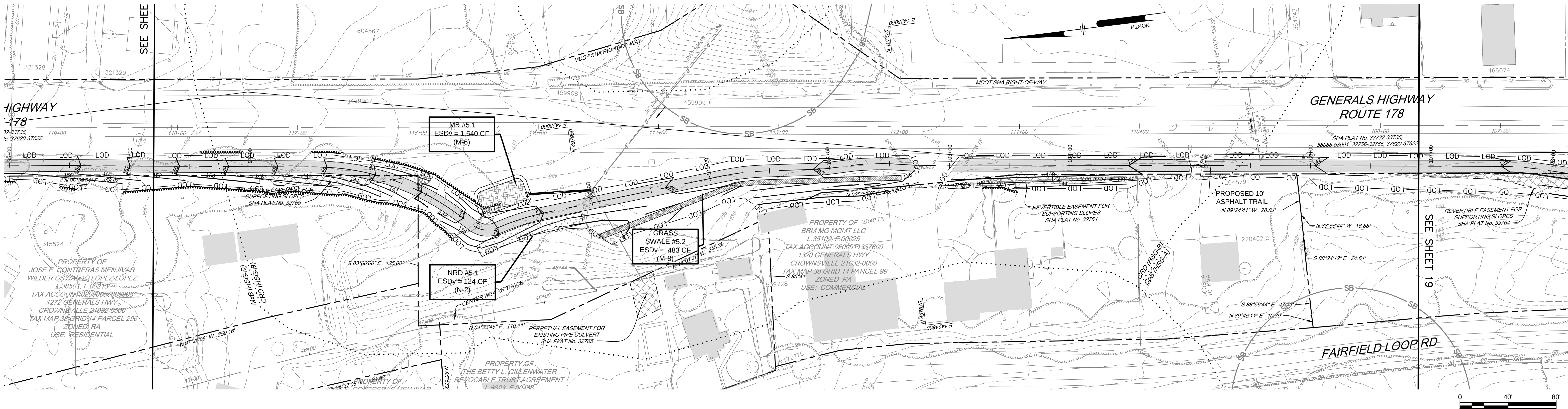
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10' TRAIL (WATERBURY RD TO HONEYSUCKLE LN)
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 2024-11-26																																																	
<table><thead><tr><th>#</th><th>REVISIONS DESCRIPTION</th><th>APPROVED BY</th><th>DATE</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>		#	REVISIONS DESCRIPTION	APPROVED BY	DATE																																					<table><tr><td>APPROVED _____ DATE _____</td><td>APPROVED _____ DATE _____</td></tr><tr><td>CHIEF ENGINEER _____</td><td>PROJECT MANAGER _____</td></tr><tr><td>APPROVAL _____ DATE _____</td><td>APPROVED _____ DATE _____</td></tr><tr><td>ASSISTANT CHIEF ENGINEER _____</td><td>CHIEF, RIGHT OF WAY SERVICES _____</td></tr></table>		APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHIEF ENGINEER _____	PROJECT MANAGER _____	APPROVAL _____ DATE _____	APPROVED _____ DATE _____	ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY SERVICES _____
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CHIEF ENGINEER _____	PROJECT MANAGER _____																																																		
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ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY SERVICES _____																																																		
 PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282		<table><tr><td>SCALE: 1"=40'</td><td rowspan="3">SITE, GRADING PLAN, AND PROFILE</td></tr><tr><td>DRAWN BY: HJMT</td></tr><tr><td>CHECKED BY: JSN</td></tr><tr><td>SHEET 17 of 28</td><td rowspan="2">SOUTH SHORE PHASE IV</td></tr><tr><td>PROJECT #: P372008</td></tr><tr><td>CONTRACT #: #P372008</td><td>TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD</td></tr></table>		SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE	DRAWN BY: HJMT	CHECKED BY: JSN	SHEET 17 of 28	SOUTH SHORE PHASE IV	PROJECT #: P372008	CONTRACT #: #P372008	TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD																																							
SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE																																																		
DRAWN BY: HJMT																																																			
CHECKED BY: JSN																																																			
SHEET 17 of 28	SOUTH SHORE PHASE IV																																																		
PROJECT #: P372008																																																			
CONTRACT #: #P372008	TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD																																																		

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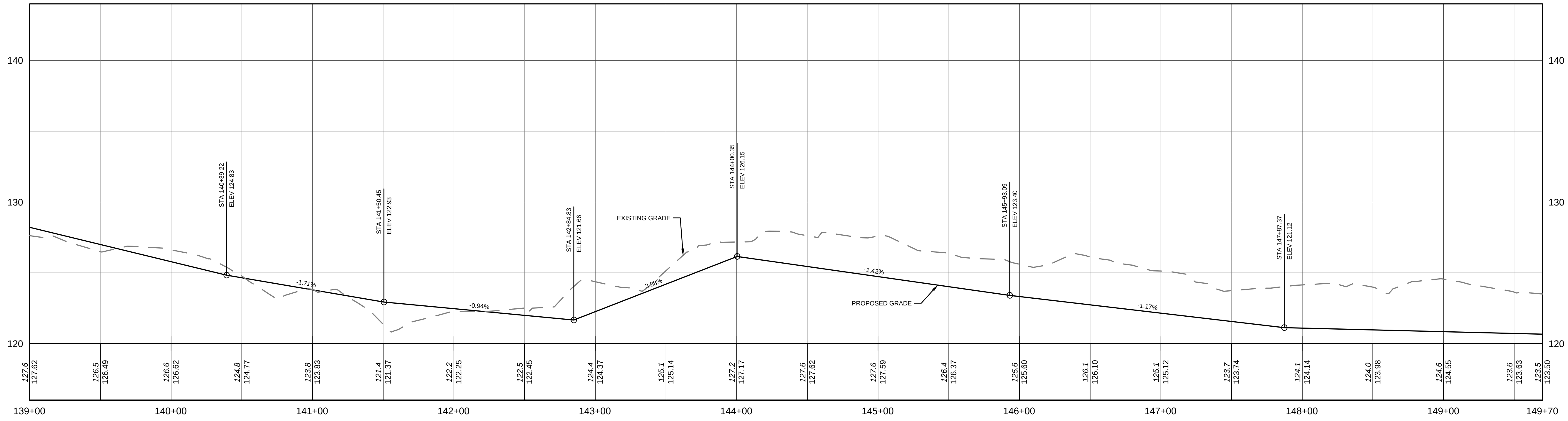
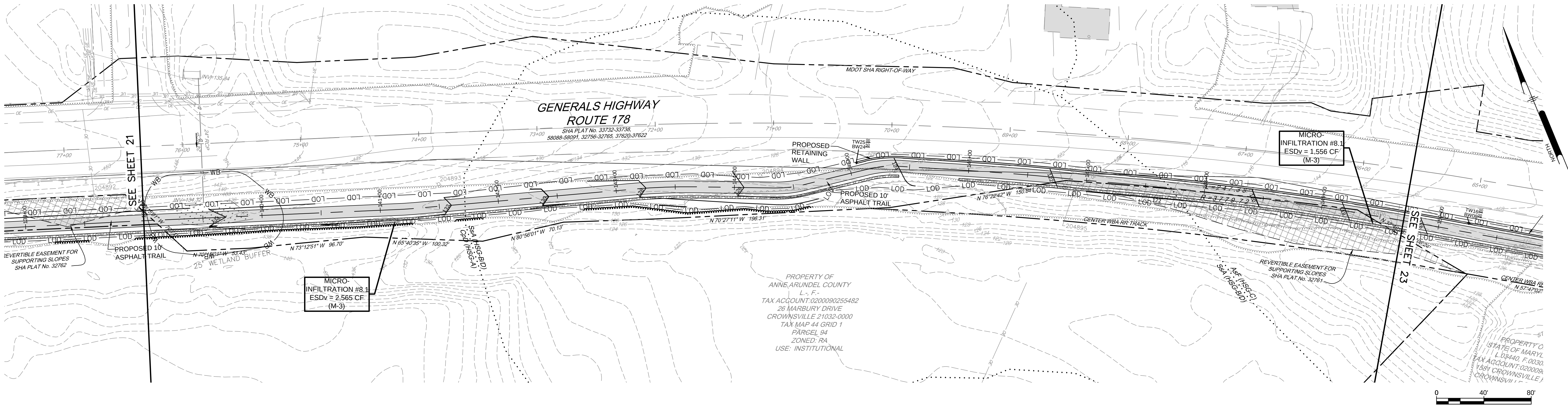


10' TRAIL (WATERBURY RD TO HONEYSUCKLE LN)
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____			 PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
#	REVISIONS DESCRIPTION	APPROVED BY DATE		

ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			2024-11-26
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVAL	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	
		SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE
		DRAWN BY: HJMT	
		CHECKED BY: JSN	
		SHEET 18 of 28	
		PROJECT #: P372008	
		CONTRACT #: #P372008	TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD

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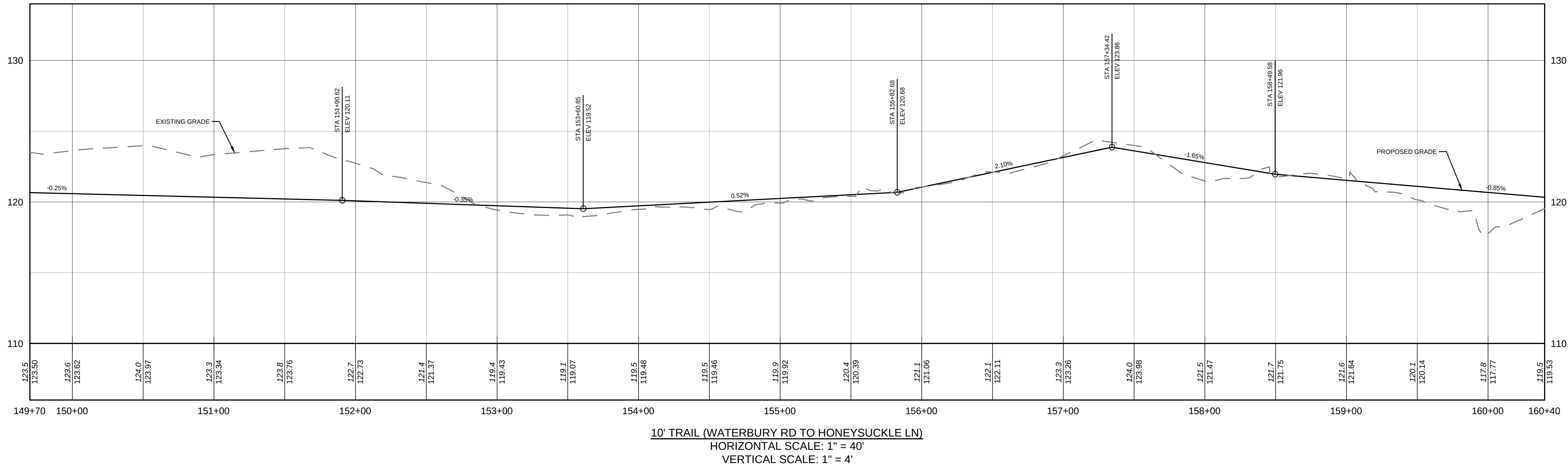
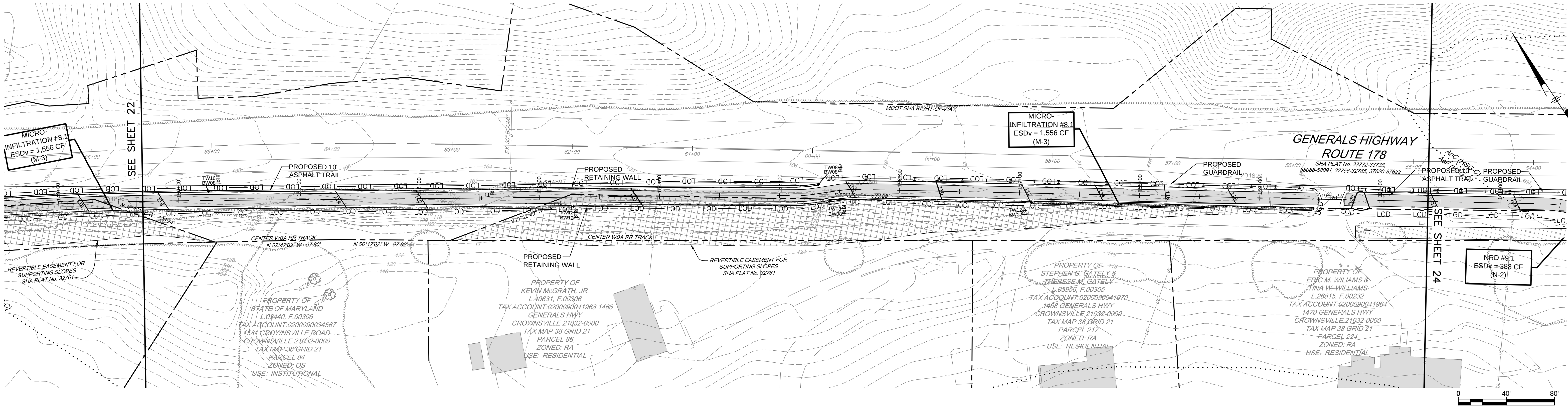


10' TRAIL (WATERBURY RD TO HONEYSUCKLE LN)
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____			 PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
#	REVISIONS DESCRIPTION	APPROVED BY DATE		

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 2024-11-26			
GP#: #		DWG NO: ###	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE SOUTH SHORE PHASE IV TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: HJMT	
APPROVAL _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: JSN	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY SERVICES _____	SHEET 22 of 28 PROJECT #: P372008 CONTRACT #: #P372008	

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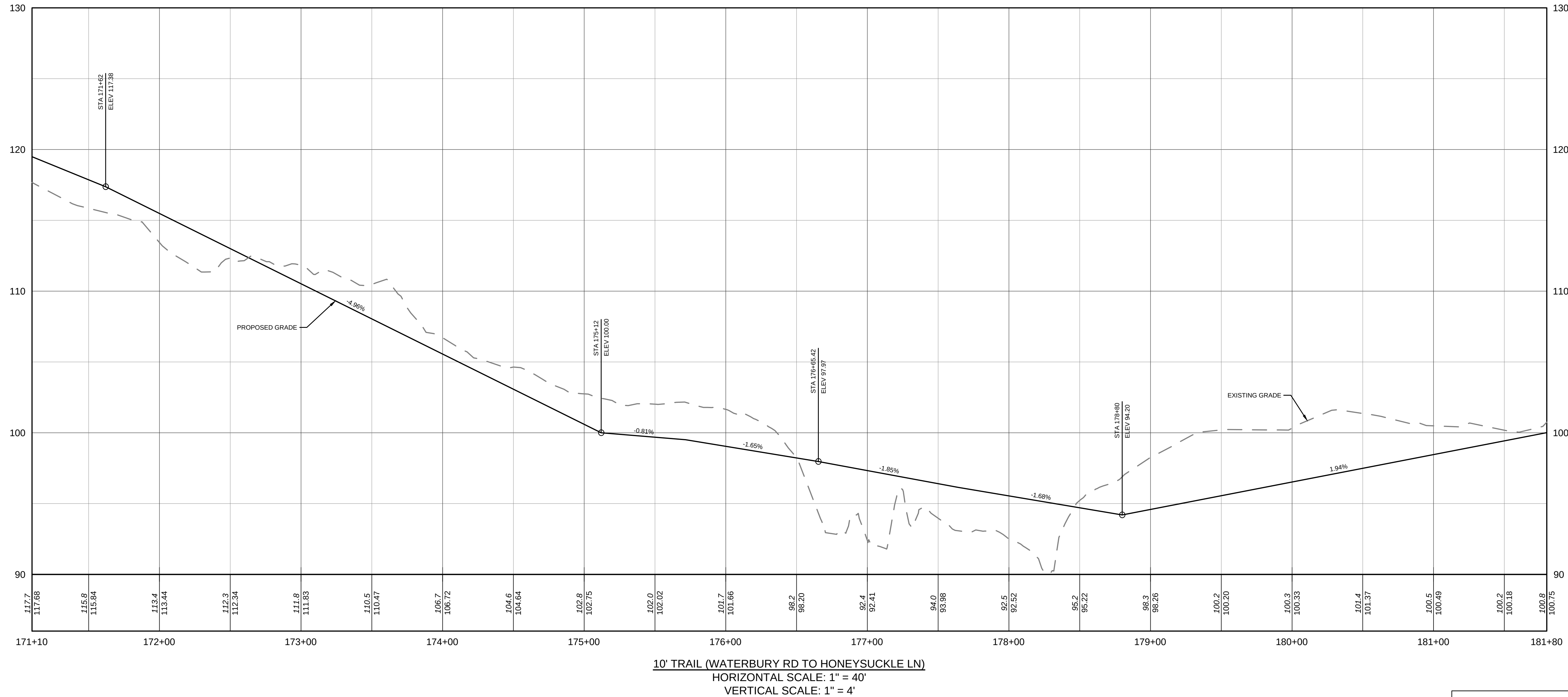
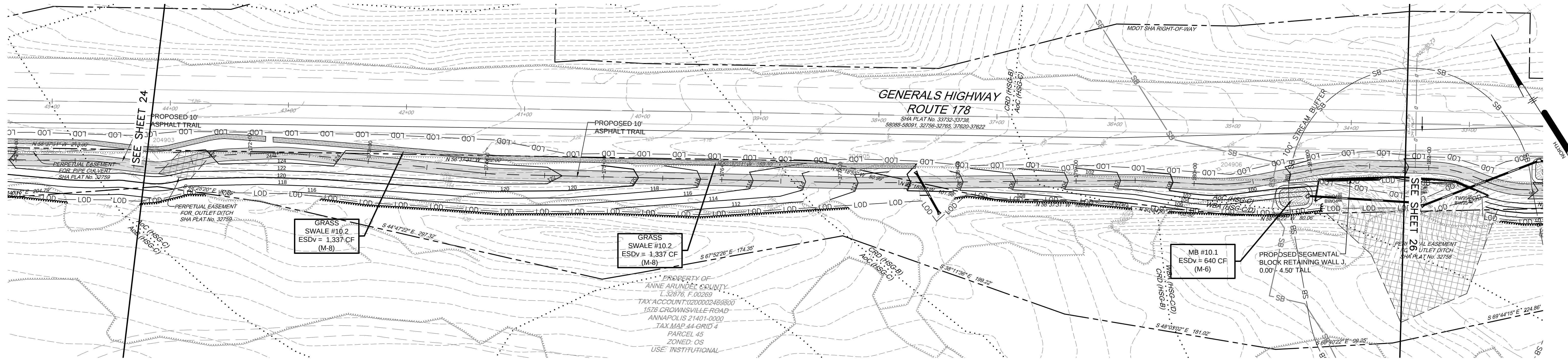


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#	REVISIONS DESCRIPTION	APPROVED BY DATE		

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 2024-11-26			
GP #: #		DWG NO: ####	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE SOUTH SHORE PHASE IV TAX MAP 37, 38 & 44 WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: HJMT	
APPROVAL _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: JSN	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY SERVICES _____	SHEET 23 of 28 PROJECT #: P372008 CONTRACT #: #P372008	

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GPW No:



PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____					
#	REVISIONS DESCRIPTION	APPROVED BY	DATE		



PENNONI ASSOCIATES INC.
8890 McGaw Road, Suite 100
Columbia, MD 21045
T 410.997.8900 F 410.997.9282

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

2024-11-26

APPROVED _____	DATE _____	APPROVED _____	DATE _____
CHIEF ENGINEER _____		PROJECT MANAGER _____	
APPROVAL _____	DATE _____	APPROVED _____	DATE _____
ASSISTANT CHIEF ENGINEER _____		CHIEF, RIGHT OF WAY SERVICES _____	

SCALE: 1"=40'
DRAWN BY: HJMT
CHECKED BY: JSN
SHEET 25 of 28
PROJECT #: P372008
CONTRACT #: #P372008

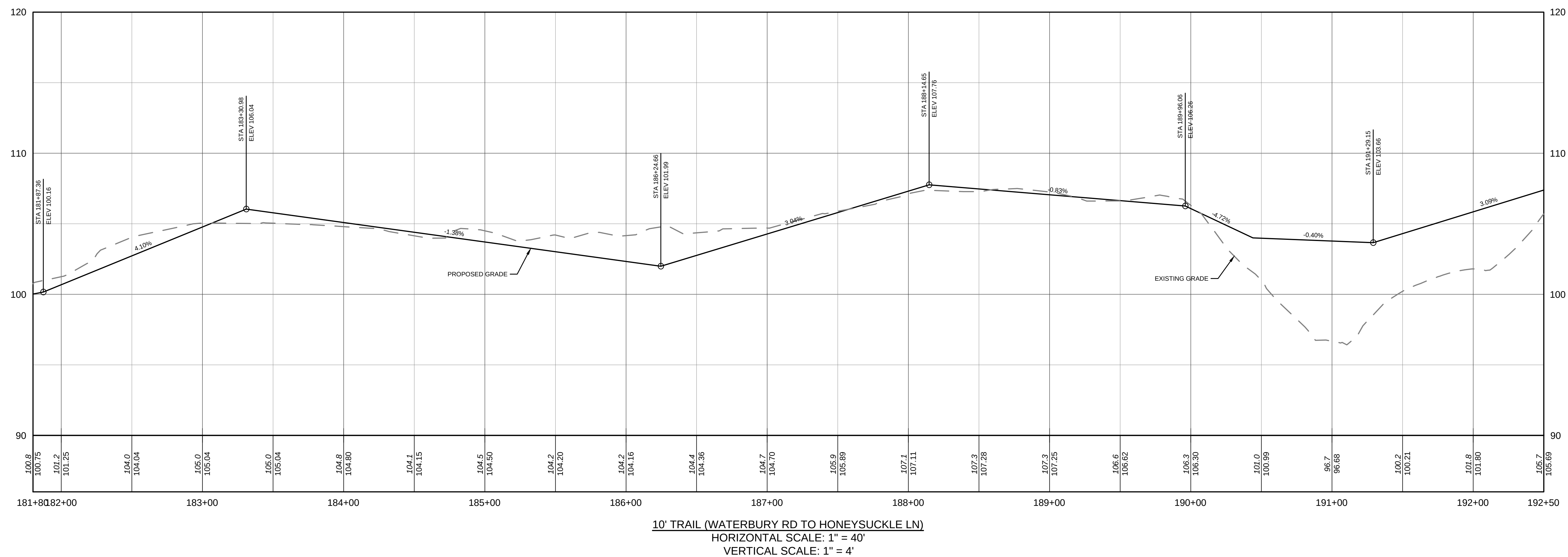
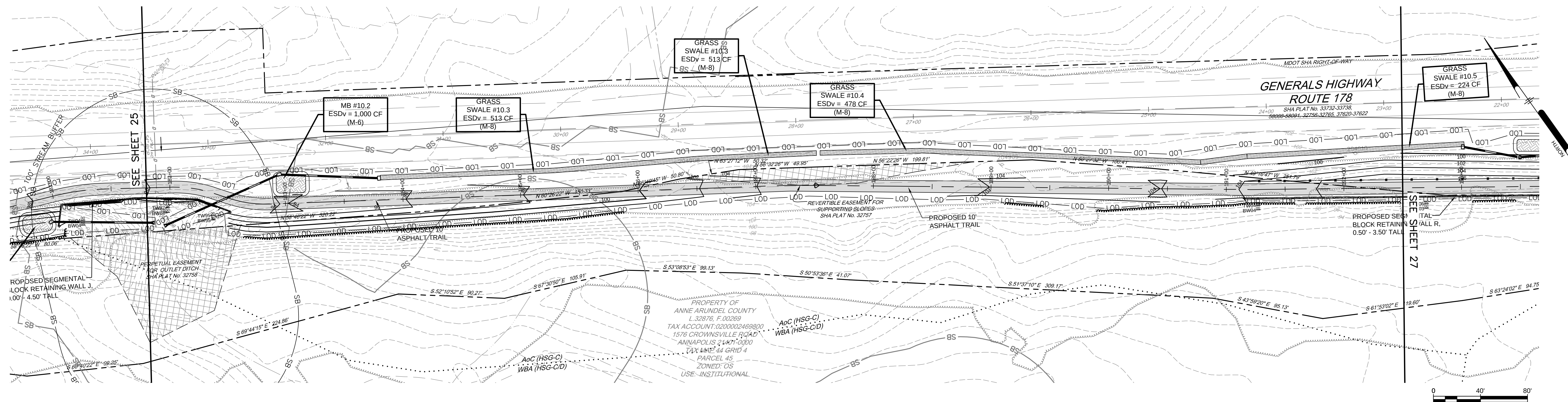
SITE, GRADING PLAN, AND PROFILE

SOUTH SHORE PHASE IV

TAX MAP 37, 38 & 44
WATERBURY RD, MD 21032 TO HONEYSUCKLE LN, MD 21401
ANNE ARUNDEL COUNTY, MD

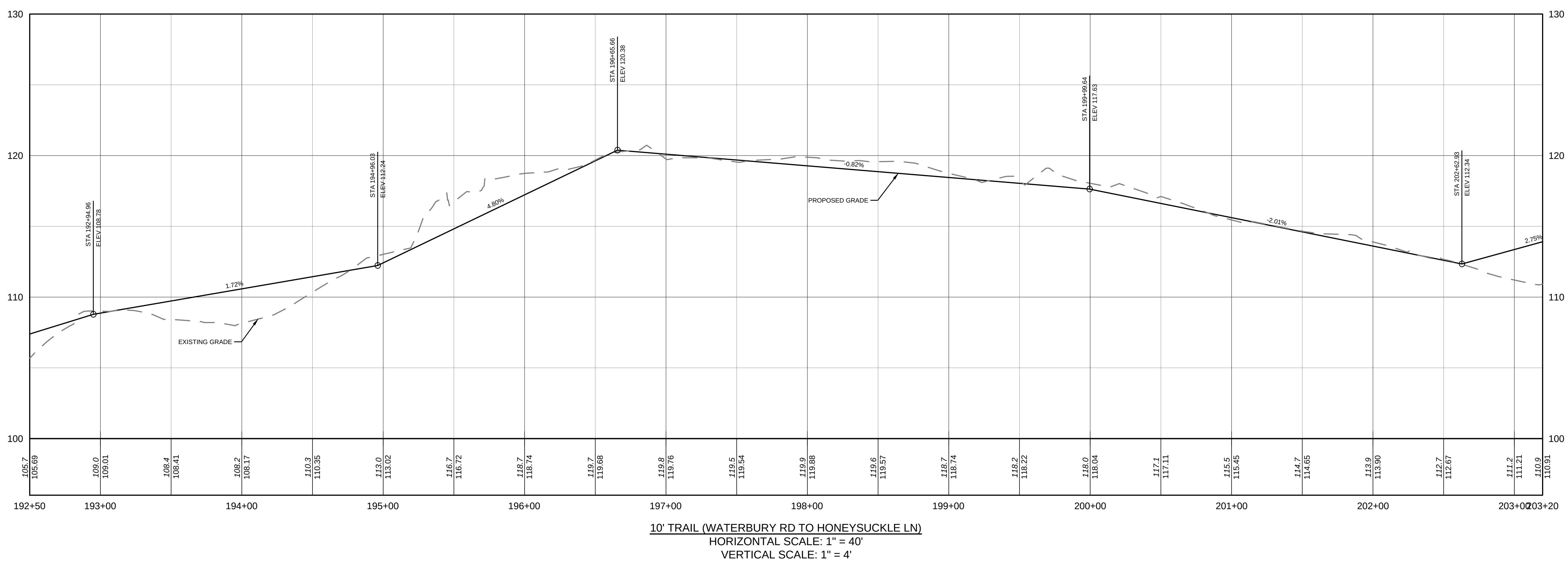
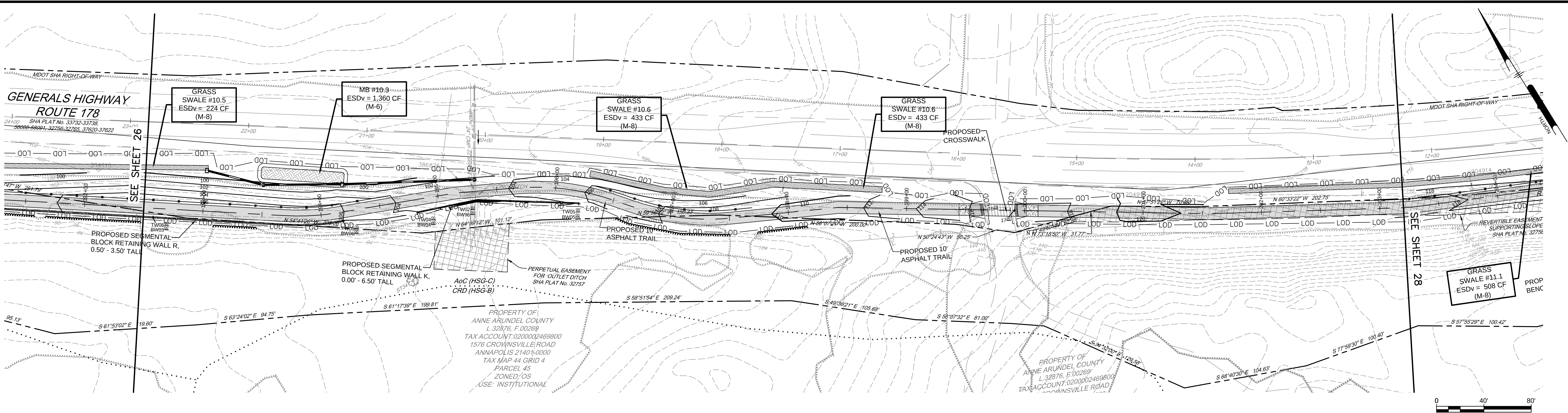
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DWG NO: ###

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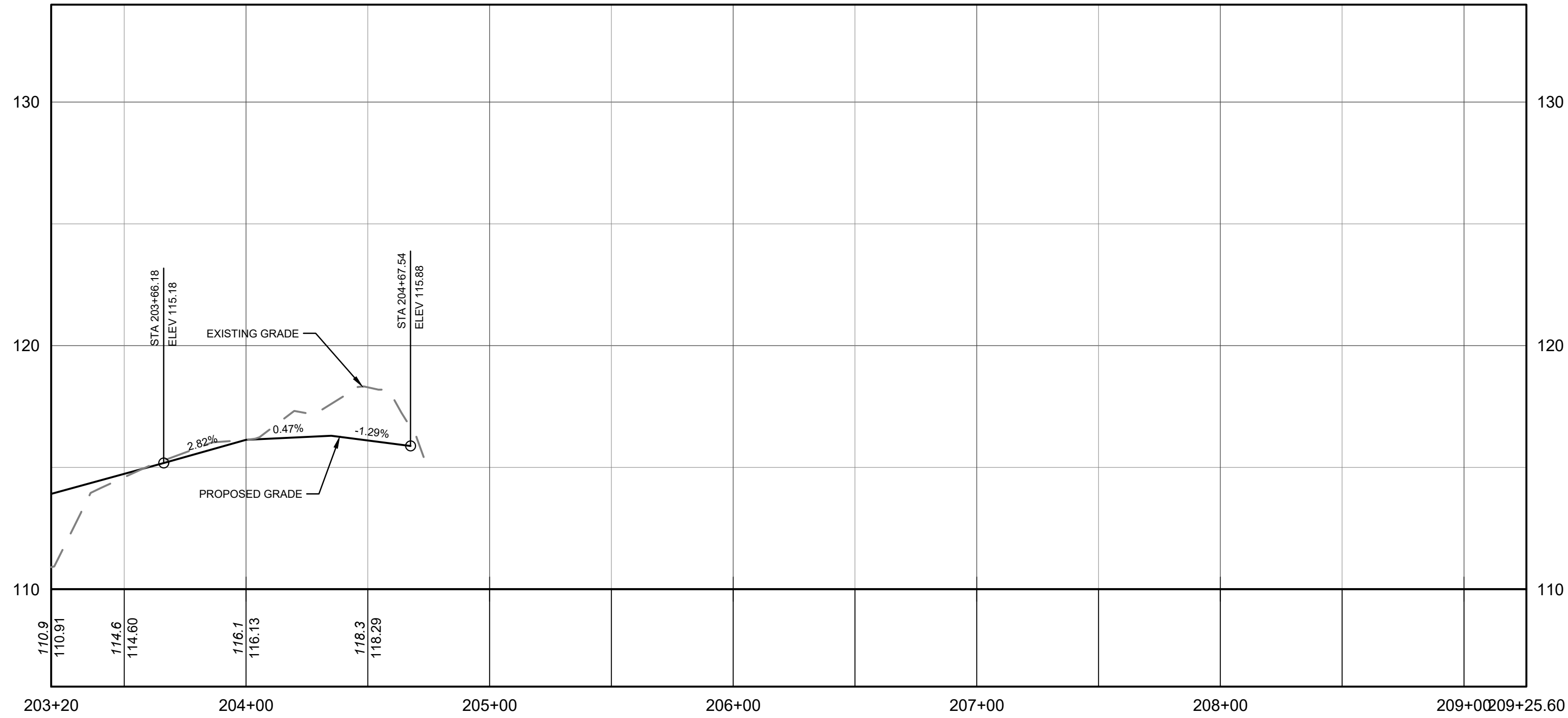
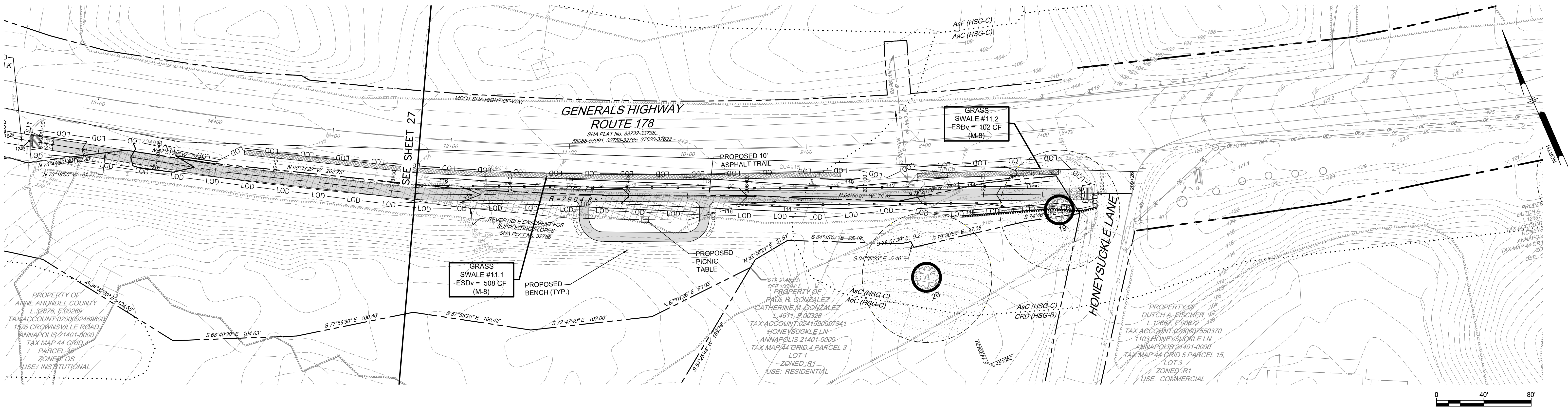
ANNE ARUNDEL COUNTY				
DEPARTMENT OF PUBLIC WORKS				
APPROVED DATE		APPROVED DATE	SCALE: 1"=40'	SITE, GRADING PLAN, AND PROFILE
			DRAWN BY: HJMT	
CHIEF ENGINEER		PROJECT MANAGER	CHECKED BY: JSN	SOUTH SHORE PHASE IV
APPROVAL DATE	APPROVED DATE	SHEET 26 of 28		
		PROJECT # P372008		
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	CONTRACT # #P372008	
			TAX MAP 37, 38 & 44 WATERBURY RD, MD 21132 TO HONEYCROCKLE LN, MD 21401 ANNE ARUNDEL COUNTY, MD	

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PLOTTED: 1/26/2024 2:25 PM BY: Camille Rodriguez PROJECT STATUS:
GPW No: 27



PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 2024-11-26																																																					
<table><thead><tr><th>#</th><th>REVISIONS DESCRIPTION</th><th>APPROVED BY</th><th>DATE</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>		#	REVISIONS DESCRIPTION	APPROVED BY	DATE																																									<table><tr><td>APPROVED _____ DATE _____</td><td>APPROVED _____ DATE _____</td></tr><tr><td>CHIEF ENGINEER _____</td><td>PROJECT MANAGER _____</td></tr><tr><td>APPROVAL _____ DATE _____</td><td>APPROVED _____ DATE _____</td></tr><tr><td>ASSISTANT CHIEF ENGINEER _____</td><td>CHIEF, RIGHT OF WAY SERVICES _____</td></tr></table>		APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHIEF ENGINEER _____	PROJECT MANAGER _____	APPROVAL _____ DATE _____	APPROVED _____ DATE _____	ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY SERVICES _____
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PLOTTED: 1/28/2024 1:55 PM BY: Camille Rodriguez PROJECT STATUS: —
GPW No:



10' TRAIL (WATERBURY RD TO HONEYSUCKLE LN)
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

PROFESSIONAL CERTIFICATION: I, _____, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME AND THAT I AM A DULY LICENSED _____ UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE # _____ EXPIRATION DATE _____			 PENNONI ASSOCIATES INC. 8890 McGaw Road, Suite 100 Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
#	REVISIONS DESCRIPTION	APPROVED BY DATE		

ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			2024-11-26
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