

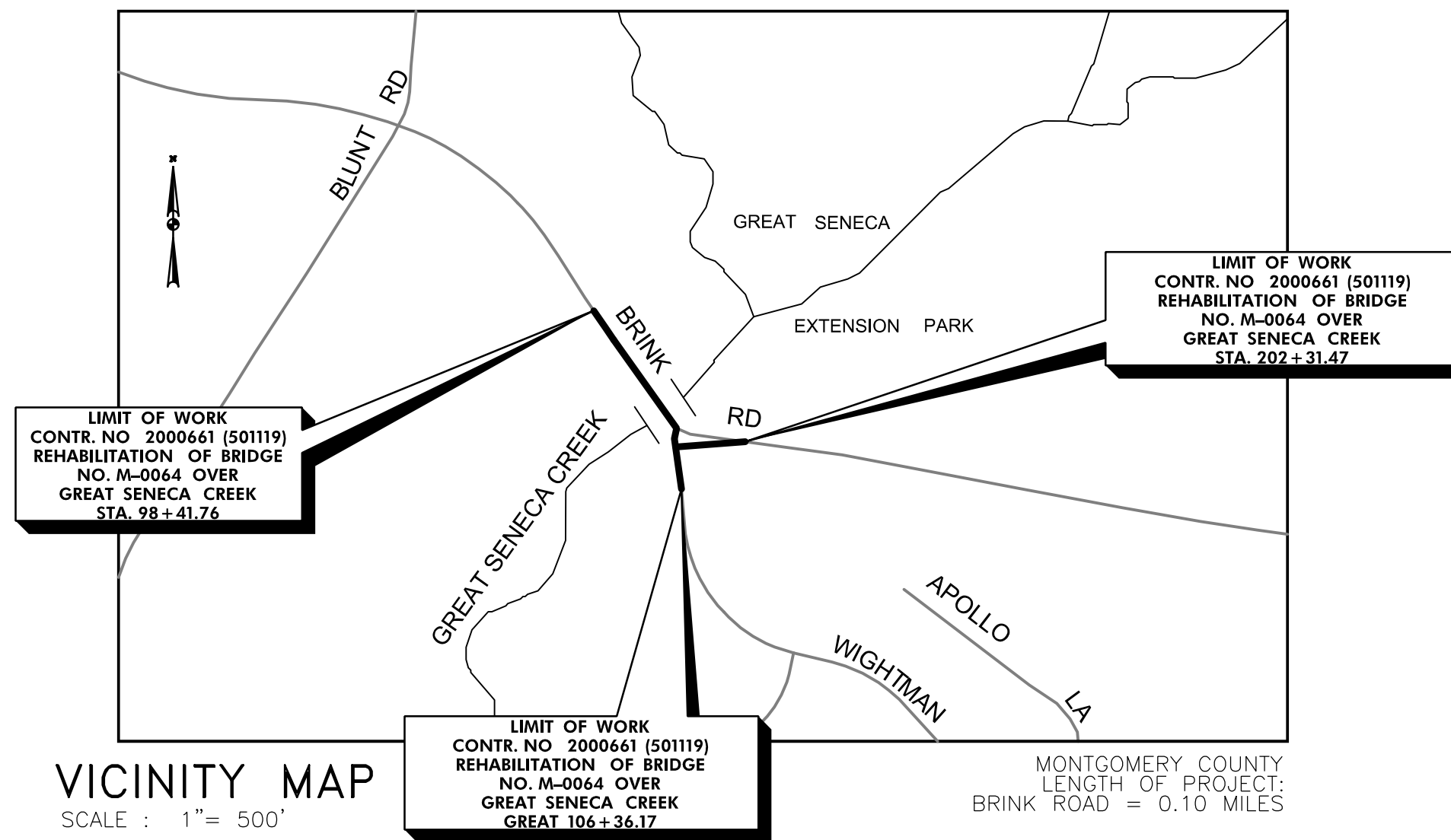
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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

REHABILITATION OF BRIDGE
NO. M-0064 OVER GREAT
SENECA CREEK

C.I.P. PROJECT NO. 501XXX



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, MONTGOMERY COUNTY, AND THE WASHINGTON SUBURBAN SANITARY COMMISSION.
- TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
- WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES, WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
- ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
- 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 NOTED UTILITY POLE RELOCATION AT THE BRIDGE ABUTMENT WIDENING SHALL BE PERFORMED BY OTHERS PRIOR TO BRIDGE CONSTRUCTION.
- THE CONTRACTOR SHALL CONSTRUCT ALL DRIVEWAY TIE-INS IN-KIND TO THE LIMIT SHOWN ON THE PLANS.
- TWO TO THREE DAYS BEFORE EXCAVATING IN THE VICINITY OF EXISTING GAS LINE, CONTACT MARYLAND'S 811 CENTER TO NOTIFY WASHINGTON GAS OF THE TIMING AND LOCATION OF THE INTENDED EXCAVATION, WAIT FOR WASHINGTON GAS OR REPRESENTATIVE TO ARRIVE AND MARK THE LOCATION OF THE EXISTING PIPELINE FACILITY PRIOR TO EXCAVATION. FOLLOW ALL REQUIREMENTS OF THE CODE OF FEDERAL REGULATIONS TITLE 49 SUBPART 196.
- THE PERMITTEE SHALL CONTACT MS. STELLA O. IGBINEDION AT (240) 777-2190 TO REQUEST ANY FIELD ASSISTANCE BY THE MCDOT TRAFFIC ENGINEERING AND OPERATIONS SECTION.

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 Transportation "Drainage Design" dated November, 2013 (Rev. June 10, 2014)

I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to be _____ cubic yards of excavation and _____ cubic yards of fill and that the total area to be disturbed as shown on these plans has been determined to be _____ square feet.

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: _____

**MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
MAINTENANCE CERTIFICATION**

I hereby certify that the Department of Transportation will assume maintenance responsibilities for all stormwater management facilities as listed and shown, hereon, in accordance with the MEMORANDUM OF UNDERSTANDING between this Department and the Department of Environmental Protection dated September 1, 1986. If, for any reason, future improvements to the roadway are planned that would impact any of the stormwater management facilities included herein, this Department will notify the Department of Environmental Protection during the planning or early design stage for such improvements.

DATE _____
BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

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 _____
BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DESIGN DESIGNATION	
ROADWAY	BRINK ROAD
CONTROLS / YEARS	2019 2039
AVERAGE DAILY TRAFFIC (A.D.T.)	13,800 16,600
DESIGN HOURLY VOLUME (D.H.V.)	9.5% 9.5%
DIRECTIONAL DISTRIBUTION	55% 55%
% TRUCKS - A.D.T.	10.2% 10.2%
% TRUCKS - D.H.V.	6.7% 6.7%
DESIGN SPEED M.P.H.	30 M.P.H.
MASTER PLAN CLASSIFICATION	ARTERIAL (A-36)
MAXIMUM ALLOWABLE SUPER ELEVATION	6%
MAXIMUM ALLOWABLE GRADIENT	8%
ANTICIPATED POSTED SPEED	30 M.P.H.
DESIGN CRITERIA	AASHTO 2018: A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS
DENSITY (U.S.R)	

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.: XXXXX
Expiration Date: XX/XX/202X

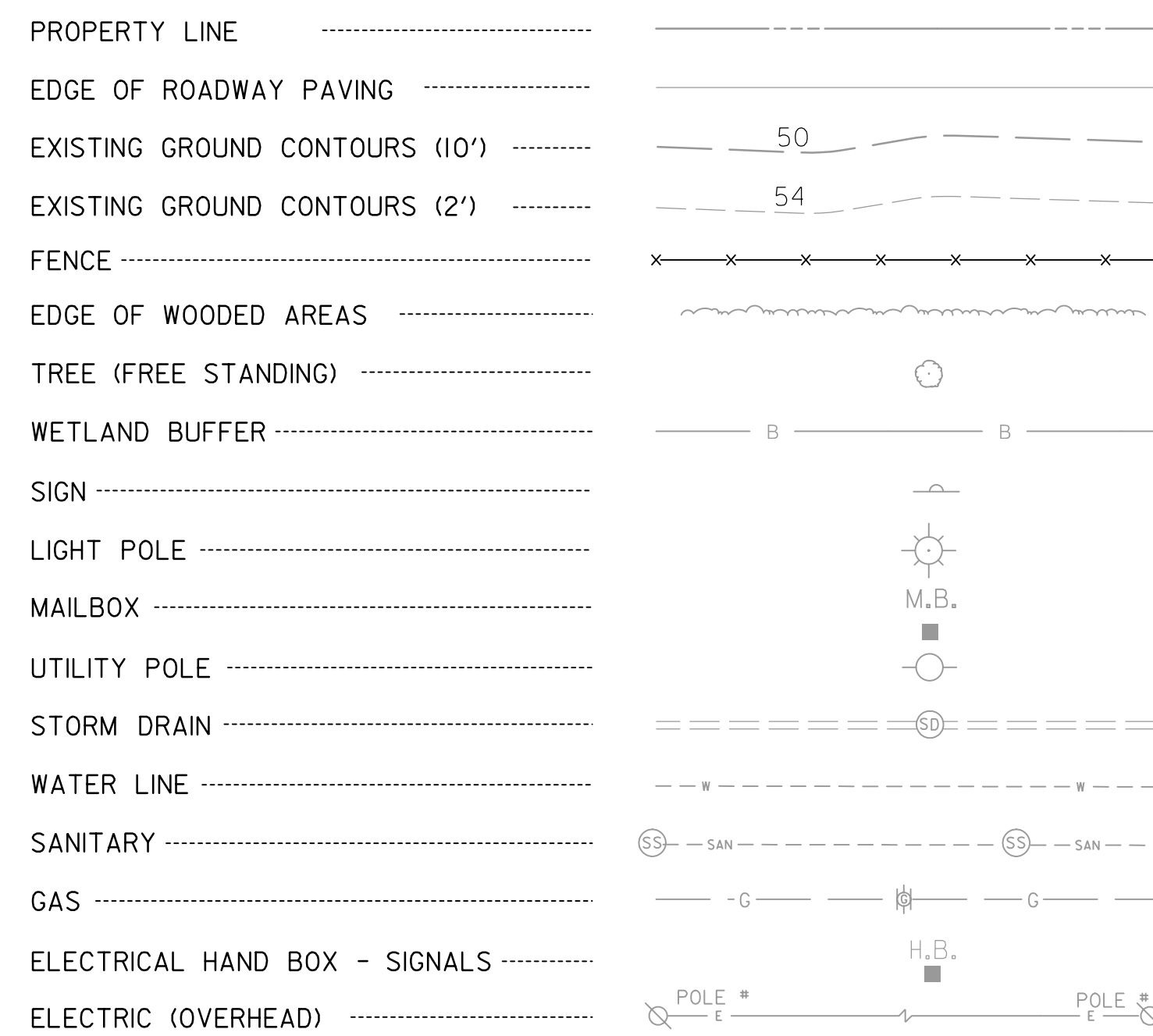
MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED. UNLESS THE PERMIT HAS BEEN EXTENDED.

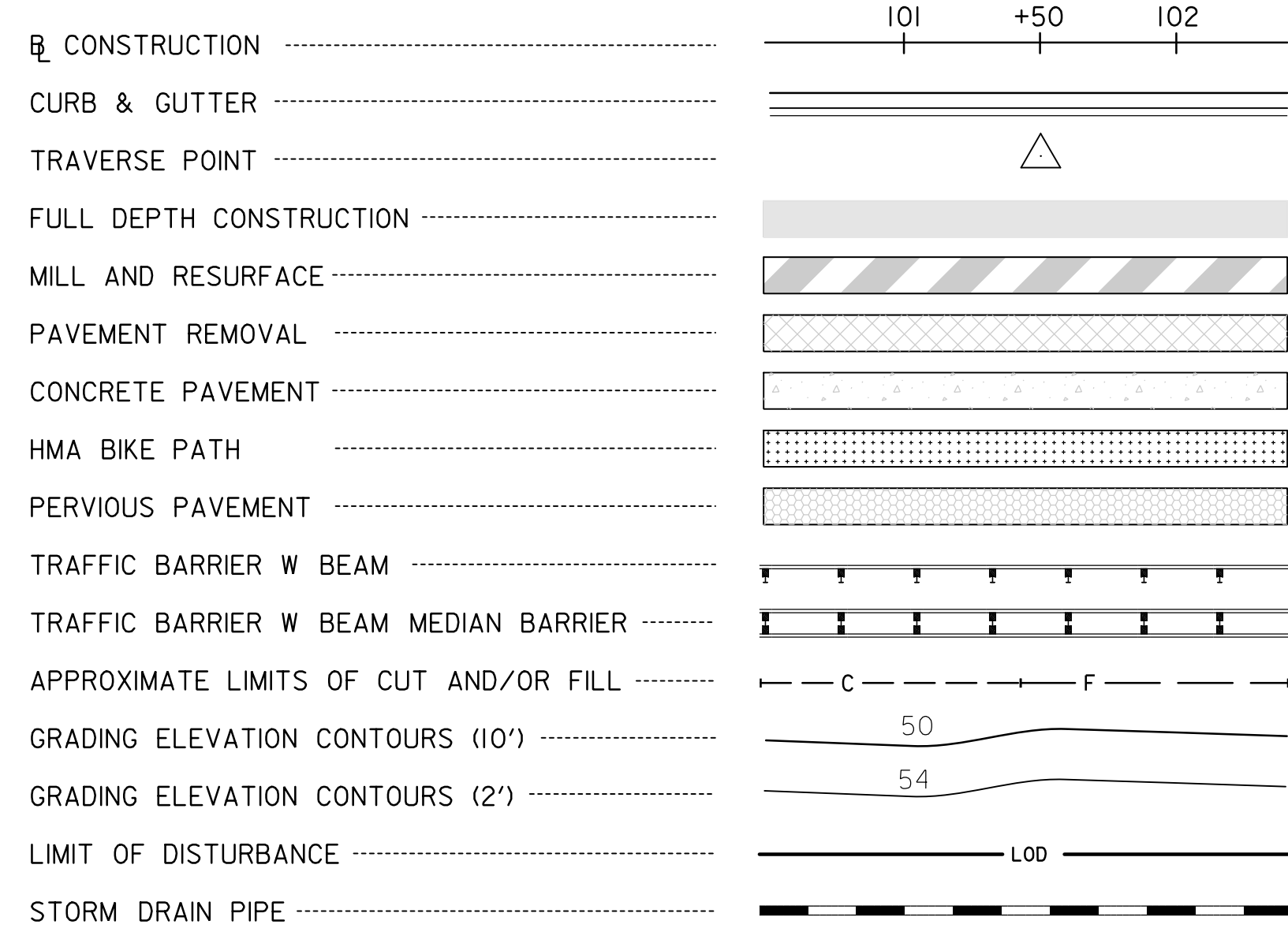


FOUNDATION REVIEW
NOT FOR CONSTRUCTION

CONVENTIONAL SYMBOLS EXISTING CONSTRUCTION



CONVENTIONAL SYMBOLS PROPOSED CONSTRUCTION



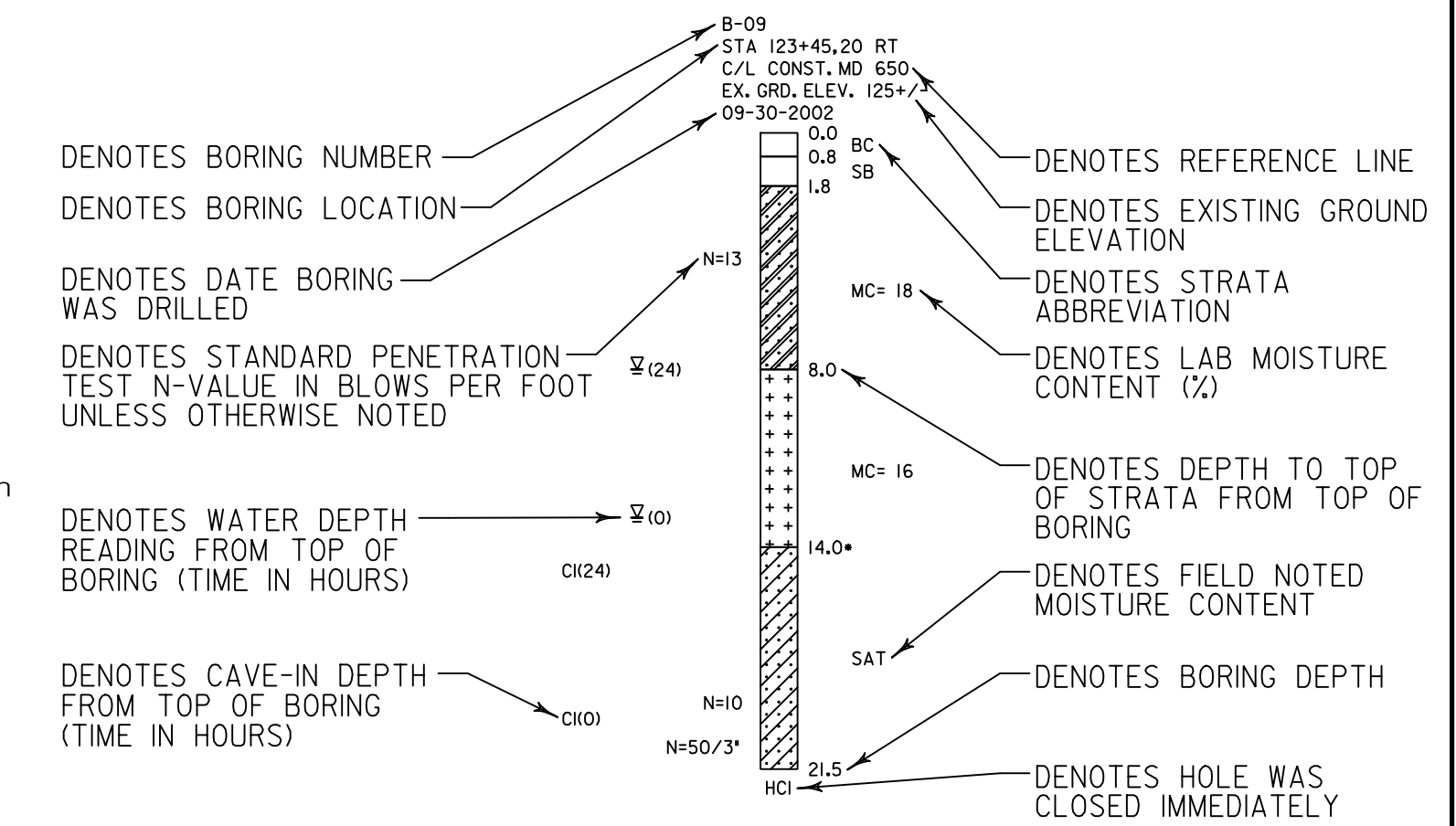
ABBREVIATIONS

- AASHTO American Association of State Highway Transportation Officials
- ADT.....Average Daily Traffic
- AHD.....Ahead
- AOAbove Optimum
- APPROX.....Approximate
- ASSRPAAluminized Steel Spiral Rib Pipe Arch
- B.C.....Bituminous Concrete
- BIT.....Bituminous
- BKBack
- B or BL.....Baseline
- B.M.....Bench Mark
- BOT.....Bottom
- CAP.....Corrugated Aluminum Pipe
- CAPA.....Corrugated Aluminum Pipe Arch
- CATV.....Cable Television
- C.B.R.....California Bearing Ratio
- C.C.....Center of Curve
- C.I.....Cave In
- CL or CL.....Centerline
- CL.....Class
- CLF.....Chainlink Fence
- CMP.....Corrugated Metal Pipe
- C.O.....Cleanout
- COMB.....Combination
- CONC.....Concrete
- CONSTR.....Construction
- COR.....Corner
- CORR.....Correction
- CPP-S.....Corrugated Polyethylene Pipe - Type 'S'
- CSP.....Corrugated Steel Pipe - Aluminized Type 2
- CSPA.....Corrugated Steel Pipe Arch - Aluminized Type 2
- CY.....Cubic Yards
- DC.....Degree of Curve
- DELTA.....Central Angle (Curve Data)
- D.H.V.....Design Hourly Volume
- D.I.....Drop Inlet
- DIA.....Diameter
- D.O.....Double Opening
- E.....East
- E.....Electric
- E.....External Distance (Curve Data)
- EA.....Each
- EB.....Eastbound
- E.B.R.....Eastbound Roadway
- ELEV.....Elevation
- EOP.....Edge of Pavement
- ES.....End Section
- EX or EXIST.....Existing
- F or FL.....Flowline
- F.B.D.....Flat Bottom Ditch
- F.H.....Fire Hydrant
- FT.....Feet
- FWD.....Forward
- G.....Gas
- GHC.....Gas House Service Connection
- G.V.....Gas Valve
- H.B.....Handbox
- HDPE.....High Density Polyethylene
- HDWL.....Headwall
- HERCP.....Horizontal Elliptical Reinforced Concrete Pipe
- HP.....High Point
- IN.....Inch
- INV.....Invert
- I.S.T.....Inlet Sediment Trap
- J.B.....Junction Box
- K.....K Inlet
- L.....Length
- LF.....Linear Feet
- LIQ.....Liquefied
- L.L.....Liquid Limit
- LP.....Low Point
- L.P.....Light Pole
- LT.....Left
- LVC.....Length of Vertical Curve
- MAC.....Macadam
- MAX.....Maximum
- M.B.....Mailbox
- M.C.....Moisture Content
- MD.....Maryland
- M.D.D.....Maximum Dry Density
- MIN.....Minimum
- MOD.....Modified
- N.....North
- NB.....Northbound
- N.B.R.....Northbound Roadway
- N.D.C.....Nose Down Curb
- NE.....Northeast
- NORM.....Normal
- N.P.....Non-Plastic
- O.C.....On Center
- OHE.....Overhead Electric
- O.M.....Optimum Moisture
- PAV T.....Pavement
- PC.....Point of Curvature
- PCC.....Point of Compound Curvature
- P.C.C.....Portland Cement Concrete
- PC.....Point of Crown
- P.G.E.....Profile Grade Elevation
- P.G.E.....Profile Ground Elevation
- P.G.L.....Profile Grade Line
- P.G.L.....Profile Ground Line
- P.R.....Point of Rotation
- P.I.....Plasticity Index
- PI.....Point of Intersection
- POB.....Point of Beginning
- POC.....Point on Curve
- POE.....Point of Ending
- POT.....Point on Tangent
- PP.....Plastic Pipe
- P.P.C.C.....Plain Portland Cement Concrete
- PPWP.....Polyvinyl Chloride Profile Wall Pipe
- PRC.....Point of Reverse Curve
- PROP.....Proposed
- PT.....Point
- PT.....Point of Tangency
- PVC.....Point of Vertical Curve
- PVC.....Polyvinyl Chloride
- PVCC.....Point of Vertical Compound Curve
- PVI.....Point of Vertical Intersection
- PVRC.....Point of Vertical Reverse Curve
- PVT.....Point of Vertical Tangency
- R.....Radius
- RCP.....Reinforced Concrete Pipe
- RCPP.....Reinforced Concrete Pressure Pipe
- R.F.....Rock Fragments
- R.Q.D.....Rock Quality Designation
- R.M.....Rootmat
- RT.....Right
- RW or RW.....Right of Way
- S.....South
- SAN.....Sanitary Sewer
- SAT.....Saturated
- SB or SB.....Southbound
- S.B.....Stone Base
- S.B.R.....Southbound Roadway
- S.D.....Storm Drain
- S.D.D.....Surface Drain Ditch
- SDWK.....Sidewalk
- SE.....Superelevation
- SF.....Silt Fence
- SF.....Square Feet
- SHC.....Sanitary House Service Connection
- SHLD.....Shoulder
- SHT.....Sheet
- SO.....Single Opening
- SPP.....Structural Steel Plate Pipe
- SPPA.....Structural Steel Plate Pipe Arch
- S.P.T.....Standard Penetration Testing
- SRP.....Steel Spiral Rib Pipe - Aluminized Type 2
- SRPA.....Steel Spiral Rib Pipe Arch - Aluminized Type 2
- SSD.....Stopping Sight Distance
- SSF.....Super Silt Fence
- STA.....Station
- STD.....Standard
- SWM.....Stormwater Management
- SY.....Square Yards
- T.....Tangent (Curve Data)
- T.....Telephone
- T.C.....Top of Curb
- T.G.....Top of Gate
- TH-X.....Test Hole and Number
- T or TL.....Traverse Line
- T.M.....Top of Manhole
- TRAV.....Traverse
- TS.....Temporary Swale
- T.S.....Top of Slab
- T.S.....Topsoil
- TYP.....Typical
- U.D.....Under Drain
- U.G.....Underground
- U.P.....Utility Pole
- USDA.....United States Department of Agriculture
- VC.....Vertical Curve
- VCL.....Vertical Clearance
- V.C.L.....Vertical Curve Length
- VPC.....Vitrified Polymer Composite
- W.....Water
- W.....West
- WB.....Westbound
- WB.....Wetland Buffer
- W.B.R.....Westbound Roadway
- W.H.C.....Water House Service Connection
- W.M.....Water Meter
- W.S.....Wrapped Steel
- WUS.....Waters of the United States
- W.V.....Water Valve

INFORMATION TO BE RECEIVED FROM OMT

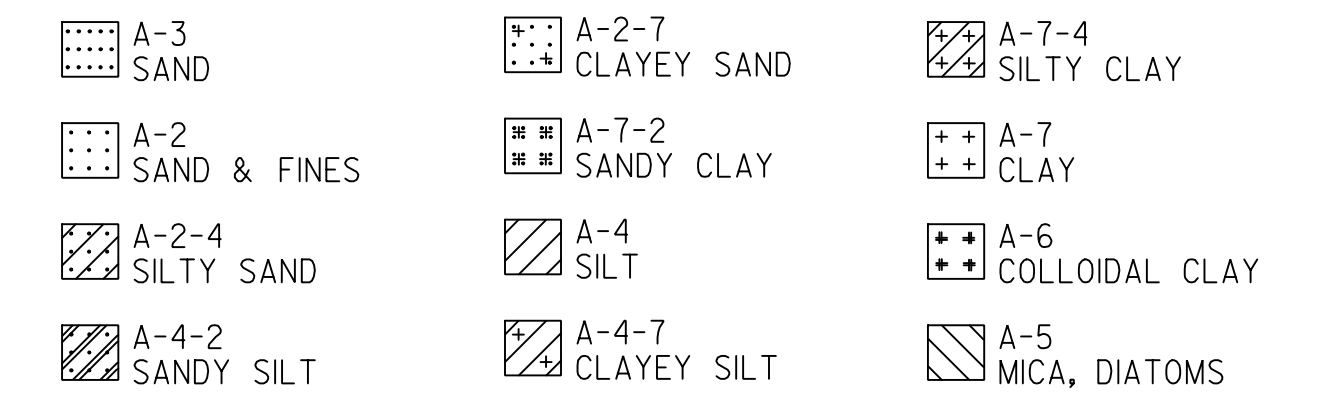
SOIL BORING PROFILE

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	-

SOILS LEGEND SAMPLES



PLAN LOCATION OF SOIL BORINGS

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

AO-ABOVE OPTIMUM
SAT-SATURATED
LIQ-LIQUEFIED

LL-LIQUID LIMIT (%)
PI-PLASTICITY INDEX (%)
NP-NON-PLASTIC
OMC-OPTIMUM MOISTURE CONTENT (%)
USC-UNIFIED SOIL CLASSIFICATION
USDA-UNITED STATES DEPARTMENT OF AGRICULTURE CLASSIFICATION

TS-TOPSOIL
RM-ROOT MAT
BC-BITUMINOUS CONCRETE
SB-STONE BASE
PCC-PORTLAND CEMENT CONCRETE

W/GR-WITH GRAVEL
W/RF-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 & OMC PER A.A.S.H.T.O. DESIGNATION T-180

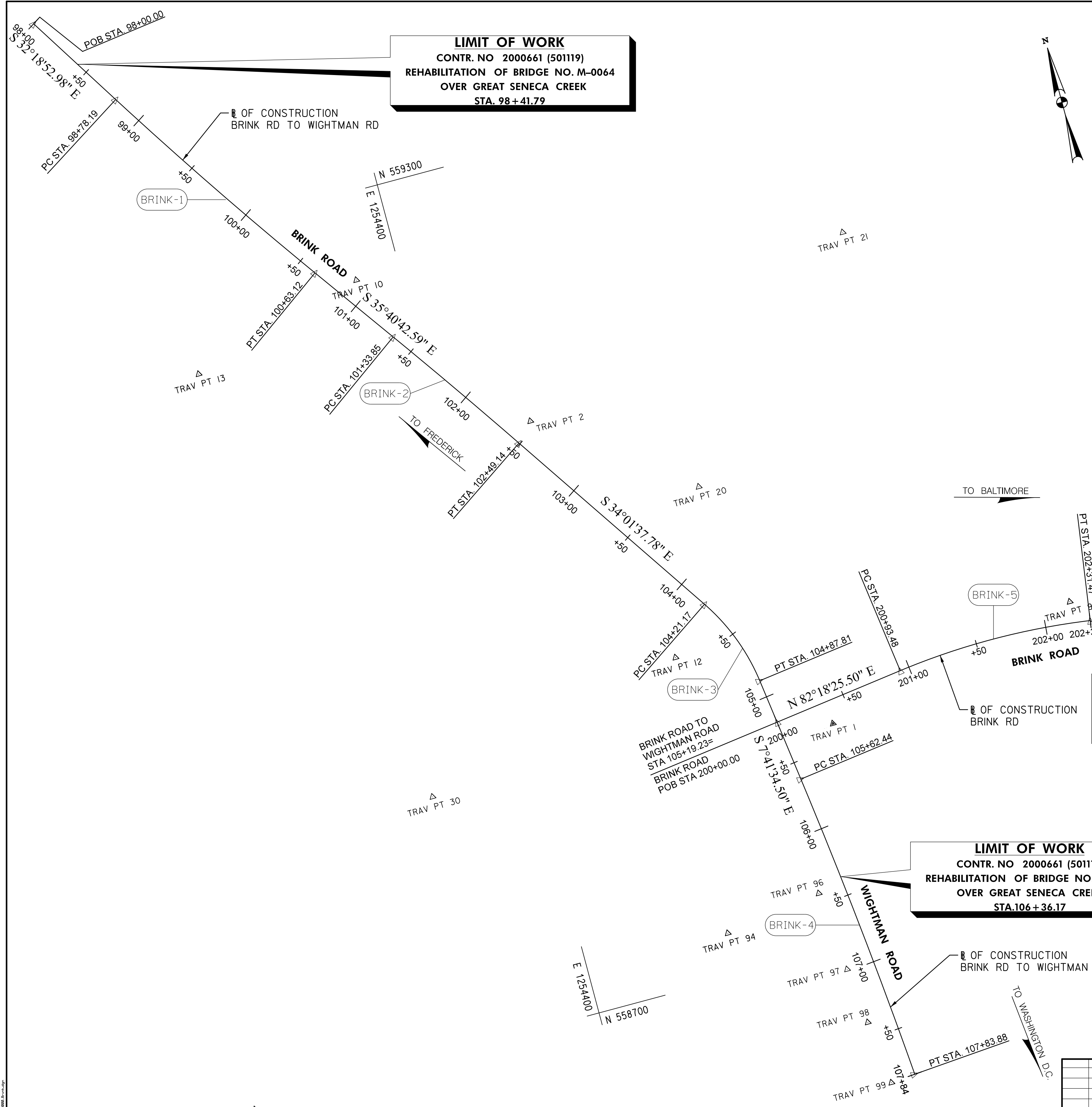
N PER A.A.S.H.T.O. DESIGNATION T-206

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)

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK	
RECOMMENDED FOR APPROVAL				Chief, Design Section _____ Date _____ APPROVED	
Chief, Division of Transportation Engineering				Date _____	
Designed by: VTD Drawn by: GMJ Checked by:				SCALE : N.T.S.	
Project No.: 501119				AB-01	



LIMIT OF WORK
 CONTR. NO 2000661 (501119)
 REHABILITATION OF BRIDGE NO. M-0064
 OVER GREAT SENECA CREEK
 STA. 98+41.79

LIMIT OF WORK
 CONTR. NO 2000661 (501119)
 REHABILITATION OF BRIDGE NO. M-0064
 OVER GREAT SENECA CREEK
 STA. 202+31.47

LIMIT OF WORK
 CONTR. NO 2000661 (501119)
 REHABILITATION OF BRIDGE NO. M-0064
 OVER GREAT SENECA CREEK
 STA. 106+36.17

FOUNDATION REVIEW
 NOT FOR CONSTRUCTION



PROJECT COORDINATES					
BASELINE OF CONSTRUCTION BRINK ROAD TO WIGHTMAN ROAD					
CURVE	DESCRIPTION	STATION	NORTH	EAST	BEARING
	POB	98+00.00	559,471.1665	1,254,196.7493	
	PC	98+78.19	559,405.0858	1,254,238.5476	S 32° 18' 52.98" E
BRINK-1	PI	99+70.68	559,326.9174	1,254,287.9917	
	PT	100+63.12	559,251.7848	1,254,341.9372	S 35° 40' 42.59" E
	PC	101+33.85	559,194.3337	1,254,383.1873	
BRINK-2	PI	101+91.50	559,147.5073	1,254,416.8089	
	PT	102+49.14	559,099.7314	1,254,449.0671	S 34° 01' 37.78" E
	PC	104+21.17	558,957.1571	1,254,545.3330	
BRINK-3	PI	104+55.09	558,929.0438	1,254,564.3151	
	PT	104+87.81	558,895.4274	1,254,568.8560	S 7° 41' 34.50" E
	PC	105+62.44	558,821.4659	1,254,578.8467	
BRINK-4	PI	106+73.19	558,711.7149	1,254,593.6718	
	PT	107+83.88	558,601.3119	1,254,602.4035	S 4° 31' 19.54" E

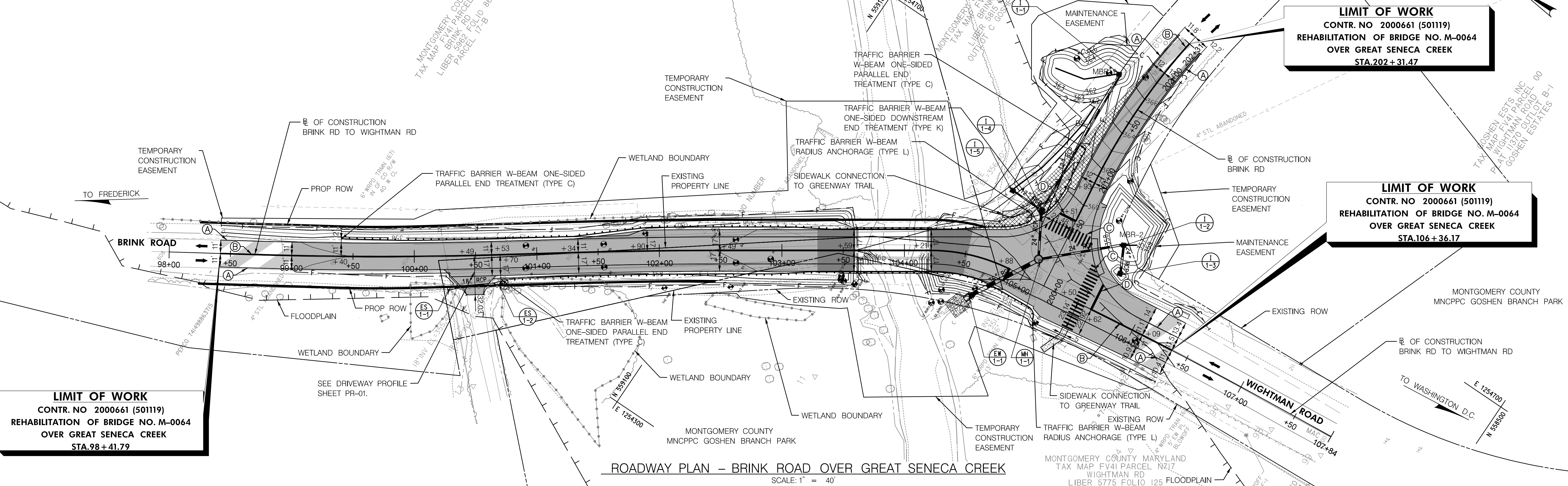
PROJECT COORDINATES					
BASELINE OF CONSTRUCTION BRINK ROAD					
CURVE	DESCRIPTION	STATION	NORTH	EAST	BEARING
	POB	200+00.00	558,864.2867	1,254,573.0625	N 82° 18' 25.50" E
	PC	200+93.48	558,876.7998	1,254,665.6972	
BRINK-5	PI	201+62.92	558,886.0954	1,254,734.5134	
	PT	202+31.47	558,876.2541	1,254,803.2538	N 81° 51' 09.13" W

CURVE DATA						
CURVE NO.	Δ	Dc	R	T	L	E
BRINK-1	3° 21' 49.62" (LT)	1° 49' 08.09"	3150.0000'	92.4934'	184.9336'	1.3576'
BRINK-2	1° 39' 04.82" (RT)	1° 25' 56.62"	4000.0000'	57.6465'	115.2851'	0.4154'
BRINK-3	26° 20' 03.28" (RT)	39° 30' 51.59"	145.0000'	33.9217'	66.6448'	3.9150'
BRINK-4	3° 10' 14.96" (RT)	1° 25' 54.90"	4001.3333'	110.7478'	221.4390'	1.5323'
BRINK-5	15° 50' 25.37" (RT)	11° 28' 43.71"	499.1440'	69.4412'	137.9967'	4.8072'

BASELINE CONTROL COORDINATES			
TRAVERSE POINT NUMBER	NORTH	EAST	ELEVATION
1	558,853.1927	1,254,610.6744	359.7294
2	559,112.4869	1,254,460.8543	357.4742
10	559,239.3504	1,254,368.6920	356.4194
12	558,926.3172	1,254,516.1927	354.3714
13	559,204.3592	1,254,245.0357	368.9569
20	559,037.5865	1,254,562.8508	353.7672
21	559,183.5002	1,254,706.2982	354.5862
30	558,876.1865	1,254,326.6712	353.4905
31	558,697.0824	1,254,149.9576	353.2559
61	558,843.4101	1,255,153.5651	393.3552
94	558,730.4944	1,254,501.6244	353.7613
95	558,892.6139	1,254,792.9810	368.4490
96	558,740.9526	1,254,570.3868	359.6168
97	558,684.4724	1,254,575.8013	361.8301
98	558,644.8693	1,254,580.2049	363.9113
99	558,599.8273	1,254,585.2493	366.6768

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK GEOMETRY SHEET SCALE : 1"=40' Project No. : 501119
RECOMMENDED FOR APPROVAL				
Chief, Design Section		Date		
APPROVED				
Chief, Division of Transportation Engineering		Date		
Designed by: JSK Drawn by: JSK Checked by: TQD				
NO.	REVISION	DATE	BY	GS-01

- MARKING DETAILS:**
- Ⓐ 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS LINES - SOLID
 - Ⓑ 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS LINES - DOUBLE SOLID
 - Ⓒ 16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS LINES - SOLID
 - Ⓓ 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS LINES - SOLID

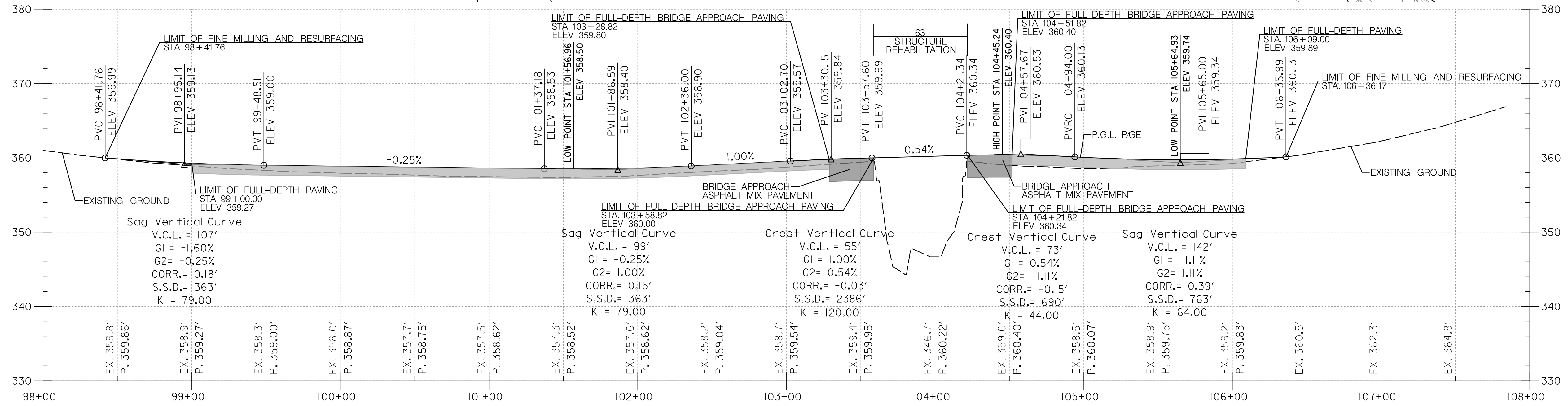


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ROADWAY PLAN - BRINK ROAD OVER GREAT SENECA CREEK
 SCALE: 1" = 40'



ROADWAY PROFILE - BRINK ROAD TO WIGHTMAN ROAD
 SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 8'

- LEGEND**
- FINE MILLING/OVERLAY
 - FULL DEPTH BRIDGE APPROACH PAVING
 - FULL DEPTH PAVING
 - PAVEMENT TO BE REMOVED
 - TRAFFIC BARRIER W BEAM

- NOTES:**
1. SEE SHEET PR-01 FOR BRINK RD AND DRIVEWAY PROFILES.
 2. EXISTING STOP SIGNS, TRAIL SIGNS, OR OTHER SIGNS SHALL BE RELOCATED AS NEEDED.

**FOUNDATION REVIEW
 NOT FOR CONSTRUCTION**



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

Chief, Division of Transportation Engineering _____ Date _____

Designed by: JSK Drawn by: JSK Checked by: TQD

**REHABILITATION OF BRIDGE
 NO. M-0064 ON BRINK ROAD
 OVER GREAT SENECA CREEK**

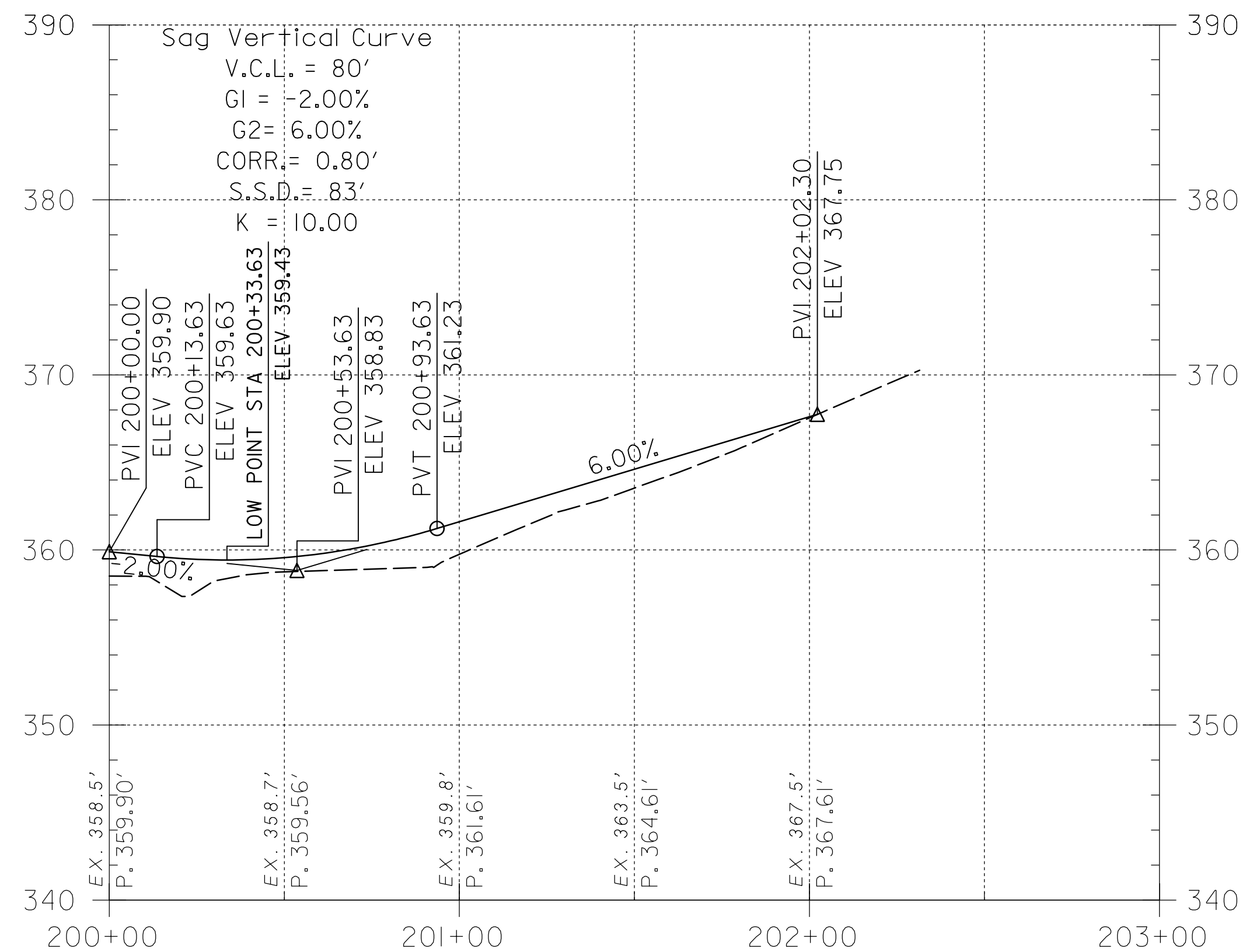
ROADWAY PLAN SHEET

SCALE: 1" = 40'

Project No.: 501119

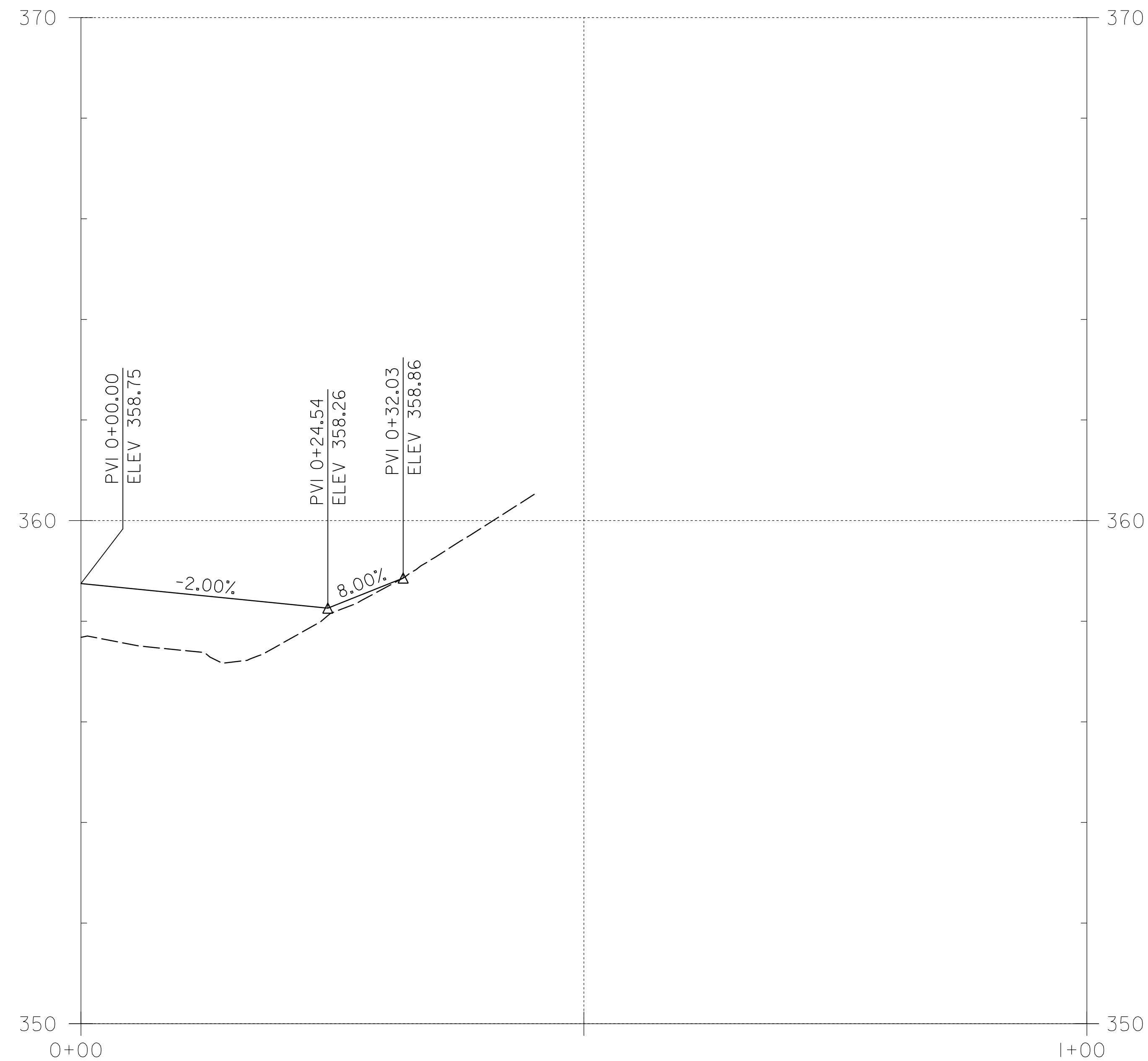
PS-01

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BASELINE OF CONSTRUCTION BRINK ROAD

SCALE HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 8'



DRIVEWAY PROFILE

SCALE HORIZONTAL: 1" = 10'
 VERTICAL: 1" = 2'

**FOUNDATION REVIEW
 NOT FOR CONSTRUCTION**



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: JSK Drawn by: JSK Checked by: GW

**REHABILITATION OF BRIDGE
 NO. M-0064 ON BRINK ROAD
 OVER GREAT SENECA CREEK**

ROADWAY PROFILE

SCALE : AS SHOWN

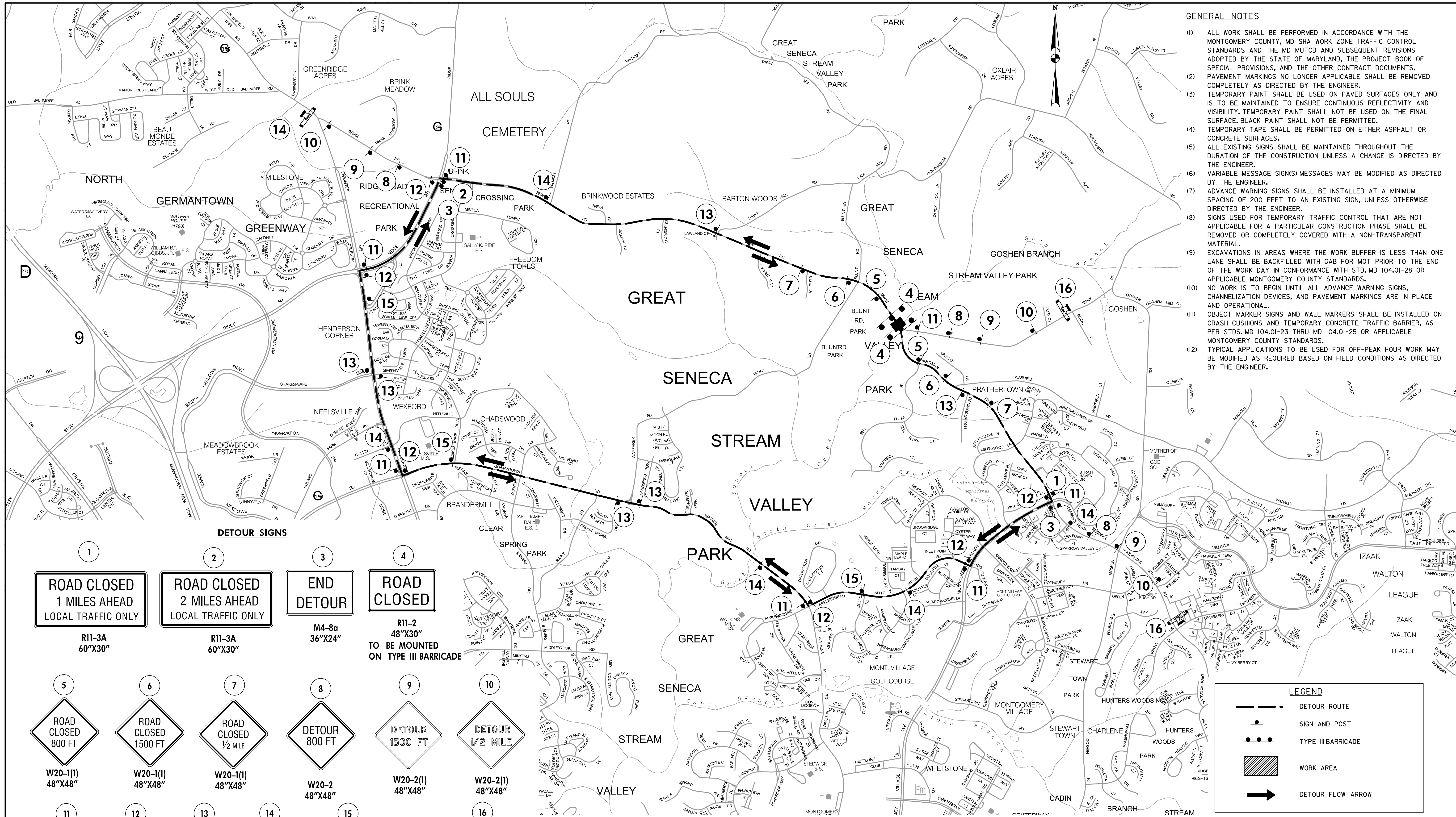
Project No. : 501119

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PR-01

GENERAL NOTES

- (1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MONTGOMERY COUNTY, MD SHA WORK ZONE TRAFFIC CONTROL STANDARDS AND THE MD MUTCD AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, THE PROJECT BOOK OF SPECIAL PROVISIONS, AND THE OTHER CONTRACT DOCUMENTS.
- (2) PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED COMPLETELY AS DIRECTED BY THE ENGINEER.
- (3) TEMPORARY PAINT SHALL BE USED ON PAVED SURFACES ONLY AND IS TO BE MAINTAINED TO ENSURE CONTINUOUS REFLECTIVITY AND VISIBILITY. TEMPORARY PAINT SHALL NOT BE USED ON THE FINAL SURFACE. BLACK PAINT SHALL NOT BE PERMITTED.
- (4) TEMPORARY TAPE SHALL BE PERMITTED ON EITHER ASPHALT OR CONCRETE SURFACES.
- (5) ALL EXISTING SIGNS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION UNLESS A CHANGE IS DIRECTED BY THE ENGINEER.
- (6) VARIABLE MESSAGE SIGN(S) MESSAGES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
- (7) ADVANCE WARNING SIGNS SHALL BE INSTALLED AT A MINIMUM SPACING OF 200 FEET TO AN EXISTING SIGN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- (8) SIGNS USED FOR TEMPORARY TRAFFIC CONTROL THAT ARE NOT APPLICABLE FOR A PARTICULAR CONSTRUCTION PHASE SHALL BE REMOVED OR COMPLETELY COVERED WITH A NON-TRANSPARENT MATERIAL.
- (9) EXCAVATIONS IN AREAS WHERE THE WORK BUFFER IS LESS THAN ONE LANE SHALL BE BACKFILLED WITH GAB FOR MOT PRIOR TO THE END OF THE WORK DAY IN CONFORMANCE WITH STD. MD 104.01-28 OR APPLICABLE MONTGOMERY COUNTY STANDARDS.
- (10) NO WORK IS TO BEGIN UNTIL ALL ADVANCE WARNING SIGNS, CHANNELIZATION DEVICES, AND PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL.
- (11) OBJECT MARKER SIGNS AND WALL MARKERS SHALL BE INSTALLED ON CRASH CUSHIONS AND TEMPORARY CONCRETE TRAFFIC BARRIER, AS PER STDS. MD 104.01-23 THRU MD 104.01-25 OR APPLICABLE MONTGOMERY COUNTY STANDARDS.
- (12) TYPICAL APPLICATIONS TO BE USED FOR OFF-PEAK HOUR WORK MAY BE MODIFIED AS REQUIRED BASED ON FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.



DETOUR SIGNS

1 ROAD CLOSED 1 MILES AHEAD LOCAL TRAFFIC ONLY R11-3A 60"X30"	2 ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3A 60"X30"	3 END DETOUR M4-8a 36"X24"	4 ROAD CLOSED R11-2 48"X30" TO BE MOUNTED ON TYPE III BARRICADE
5 ROAD CLOSED 800 FT W20-1(1) 48"X48"	6 ROAD CLOSED 1500 FT W20-1(1) 48"X48"	7 ROAD CLOSED 1/2 MILE W20-1(1) 48"X48"	8 DETOUR 800 FT W20-2 48"X48"
9 DETOUR 1500 FT W20-2(1) 48"X48"	10 DETOUR 1/2 MILE W20-2(1) 48"X48"	11 BRINK RD DETOUR M4-9L 48"X48"	12 BRINK RD DETOUR M4-9R 48"X48"
13 BRINK RD DETOUR M4-9 (MOD.) 48"X48"	14 BRINK RD DETOUR M4-9L (MOD.) 48"X48"	15 BRINK RD DETOUR M4-9R (MOD.) 48"X48"	16 BRINK ROAD TO BE CLOSED ON OR ABOUT XXXXXX 2 WEEKS IN ADVANCE OF CLOSURE PVMS

LEGEND

- DETOUR ROUTE
- SIGN AND POST
- TYPE III BARRICADE
- WORK AREA
- DETOUR FLOW ARROW

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL _____ Date _____
 Chief, Design Section
 APPROVED _____ Date _____
 Chief, Division of Transportation Engineering

Designed by: JSK Drawn by: JSK Checked by: GW

**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

MAINTENANCE OF TRAFFIC
DETOUR PLAN

SCALE: 1"=1000'

Project No.: 501119 9 of 28

MT-01

NOTES REFERENCED FROM:
MARYLAND DEPARTMENT OF THE ENVIRONMENT, 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, DECEMBER 2011.

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION
USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION.

PURPOSE
TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL.

CONDITIONS WHERE PRACTICE APPLIES
ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS. THIS SPECIFICATION IS DIVIDED INTO SECTIONS ON INCREMENTAL STABILIZATION; SOIL PREPARATION, SOIL AMENDMENTS AND TOPSOILING; SEEDING AND MULCHING; TEMPORARY STABILIZATION; AND PERMANENT STABILIZATION.

EFFECTS ON WATER QUALITY AND QUANTITY
STABILIZATION PRACTICES ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUNOFF TO DOWNSTREAM AREAS.

PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION, EVAPORATION, TRANSPIRATION, PERCOLATION, AND GROUNDWATER RECHARGE. OVER TIME, VEGETATION WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSEQUENT PLANT GROWTH.

VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT GROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITHIN THE ROOT ZONE.

SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING, AND VEGETATIVE ESTABLISHMENT.

ADEQUATE VEGETATIVE ESTABLISHMENT
INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON.

1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95 PERCENT GROUND COVER.
2. IF AN AREA HAS LESS THAN 40 PERCENT GROUND COVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
3. IF AN AREA HAS BETWEEN 40 AND 94 PERCENT GROUND COVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.
4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

B. INCREMENTAL STABILIZATION - FILL SLOPES

1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.
3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA.
 - b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
 - c. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.
 - d. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.
 - e. PLACE FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDBED AREAS AS NECESSARY.

NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

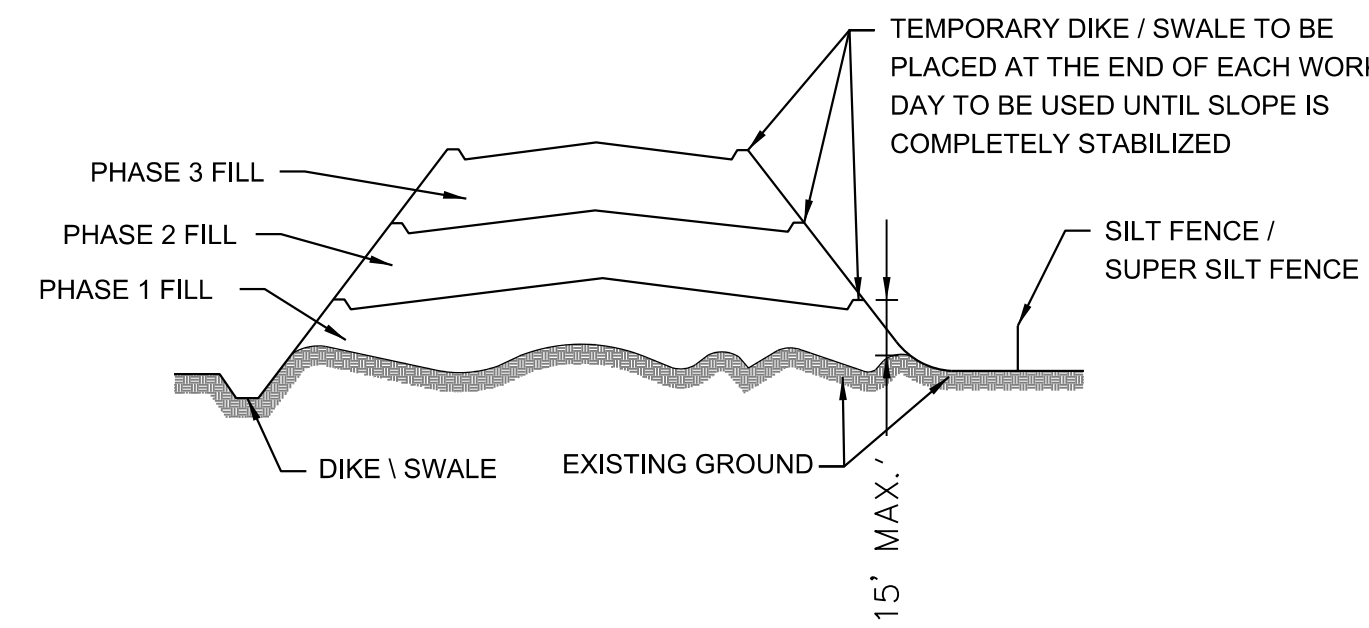


FIGURE B.2: INCREMENTAL STABILIZATION - FILL

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES
WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

CRITERIA

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION
 - a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE
 - b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
 - c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
2. PERMANENT STABILIZATION
 - a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - i. SOIL PH BETWEEN 6.0 AND 7.0.
 - ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.

- b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ONSITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
 - c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
 - d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
 - e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.
- B. TOPSOILING**

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
 - a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.
 - b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
6. TOPSOIL APPLICATION
 - a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
 - b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

DEFINITION
ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES.

PURPOSE
TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK PROGRESSES.

CONDITIONS WHERE PRACTICE APPLIES
ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT. THIS PRACTICE ALSO APPLIES TO STOCKPILES.

CRITERIA

A. INCREMENTAL STABILIZATION - CUT SLOPES

1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.
2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.1):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
 - b. PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND STABILIZE.
 - c. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.
 - d. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDBED AREAS AS NECESSARY.

NOTE: ONCE EXCAVATION HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

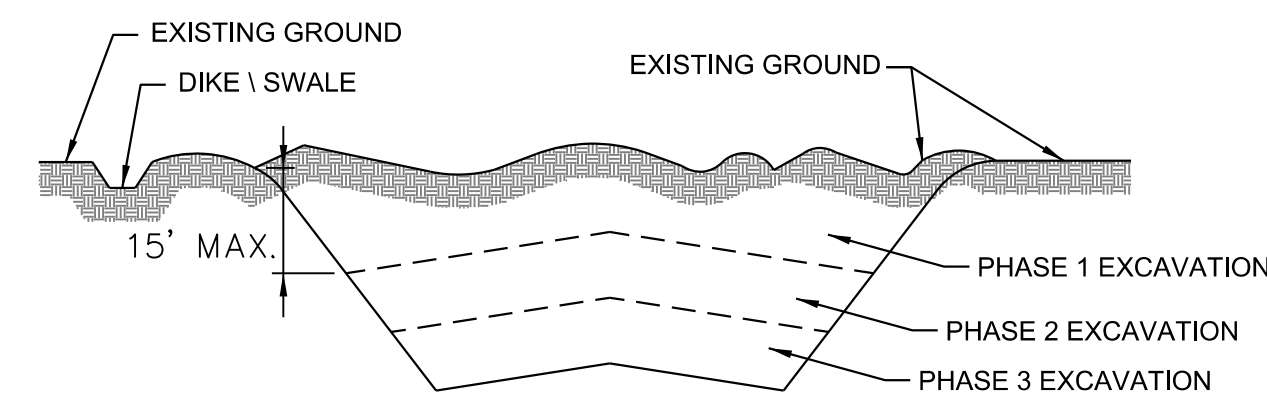


FIGURE B.1: INCREMENTAL STABILIZATION - CUT

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: _____	Drawn by: _____	Checked by: _____	
NO.	REVISION	DATE	BY

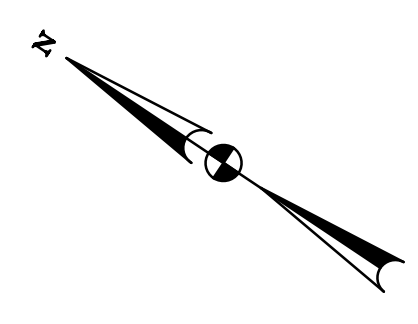
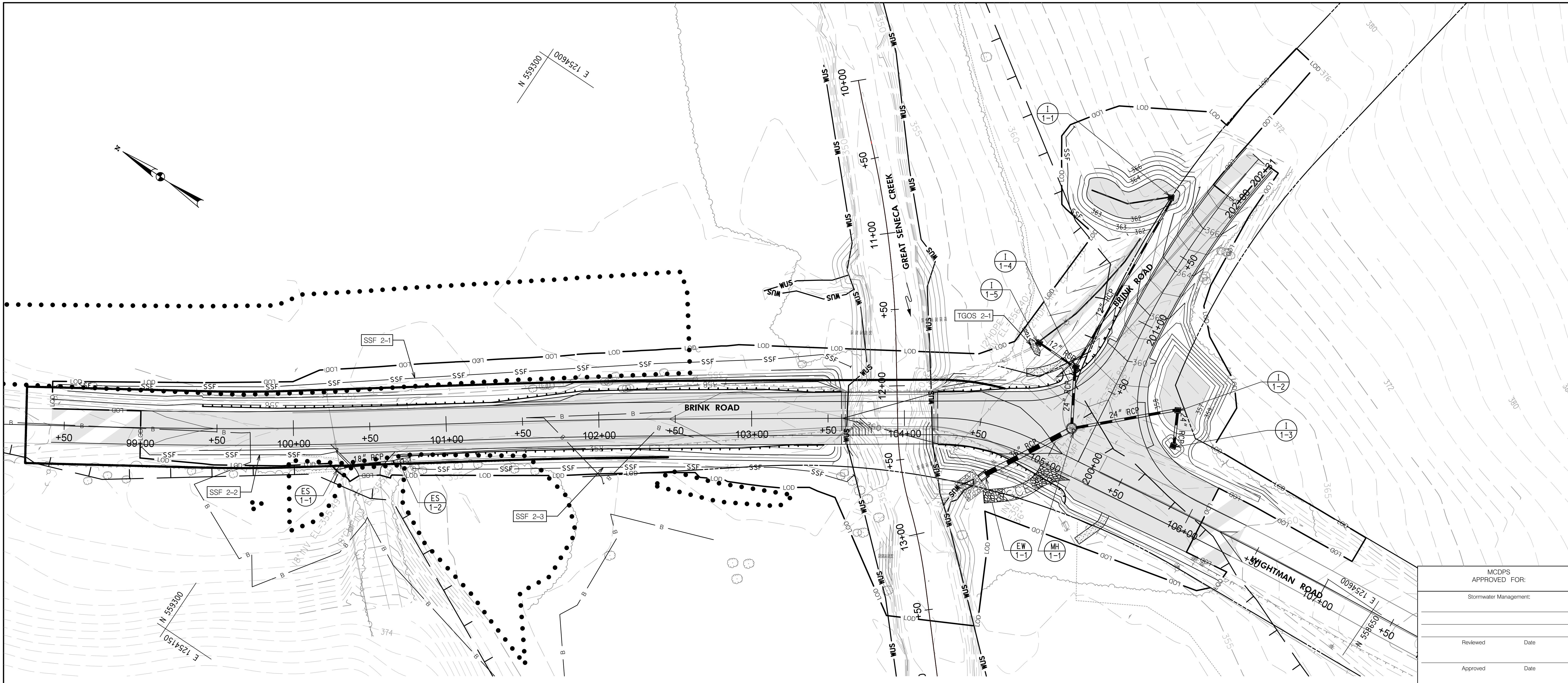
**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

EROSION & SEDIMENT CONTROL NOTES

SCALE : NTS

Project No. : 2000661 (501119) 12 of 28

MCDPS APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
SM FILE # _____	
Sediment Control Technical Requirements:	
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT # _____	
NOTE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.	
THIS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	



LEGEND			
—	EXISTING ROW	— WUS —	WATERS OF THE US
—355—	EXISTING CONTOUR	•••••	WETLANDS
— — — — —	EXISTING PIPE	—	100 YR FLOODPLAIN
— B —	WETLAND BUFFER		
— LOD —	LIMIT OF DISTURBANCE		

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



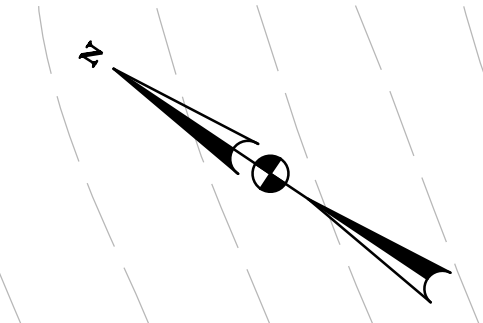
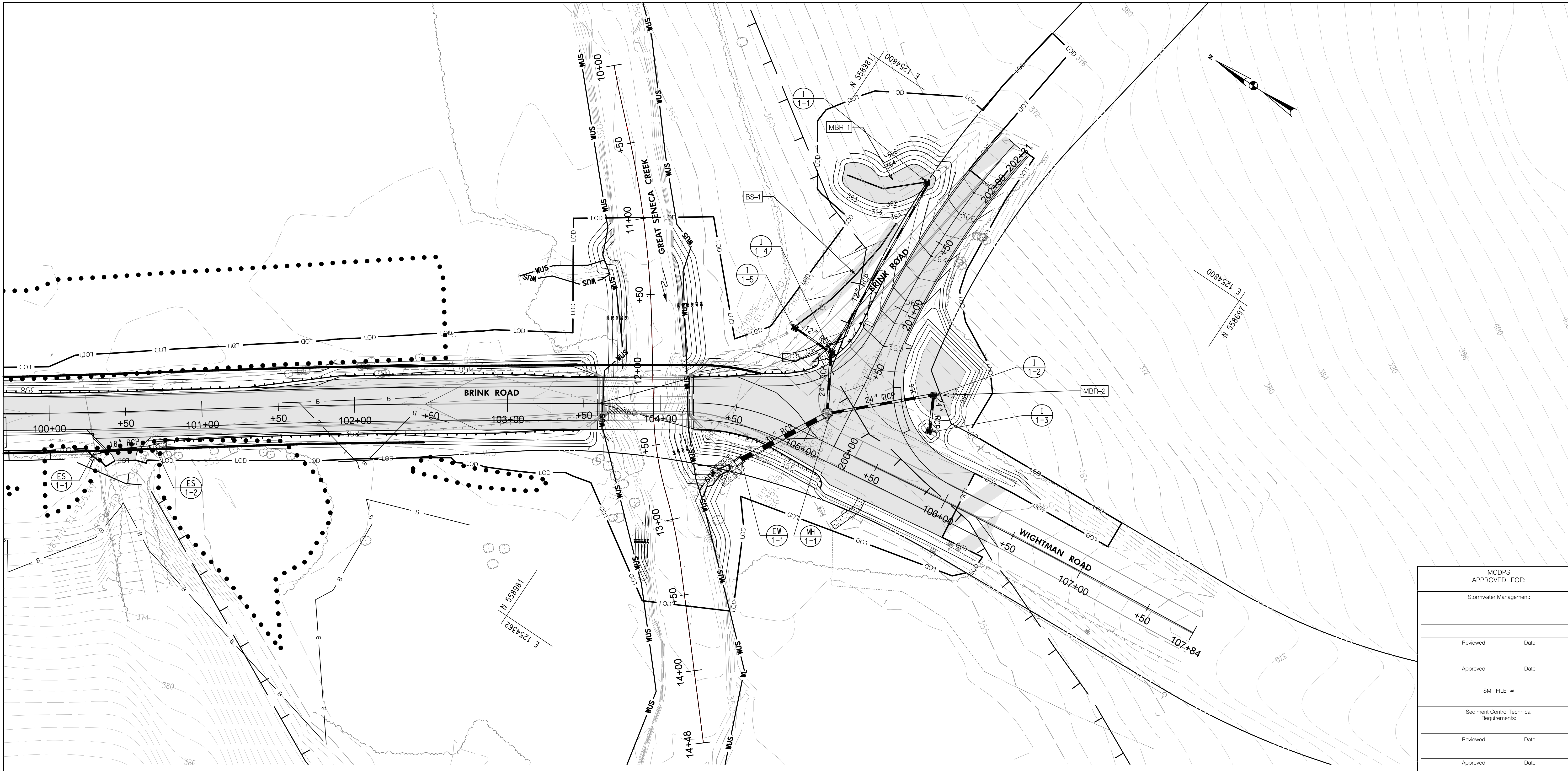
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: _____	Drawn by: _____	Checked by: _____	

REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK
EROSION & SEDIMENT CONTROL PLAN STAGE 2

SCALE : NTS

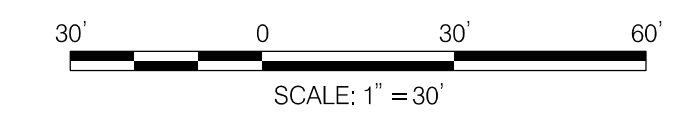
Project No. : 2000661 (501119) _____ 17 of 28

MCDPS APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
SM FILE #	
Sediment Control Technical Requirements:	
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT #	
NOTE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.	
THIS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	



LEGEND			
	EXISTING ROW		FULL DEPTH PAVEMENT
	EXISTING CONTOUR		RE-SURFACING
	SWM FOOTPRINT		PAVEMENT REMOVAL
	EXISTING PIPE		WATERS OF THE US
	WETLAND BUFFER		WETLANDS
	LIMIT OF DISTURBANCE		100 YR FLOODPLAIN

MCDPS APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
SM FILE #	
Sediment Control Technical Requirements:	
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT #	
NOTE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.	
THIS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	



FOUNDATION REVIEW
NOT FOR CONSTRUCTION

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Transportation Engineering		Date	
Designed by: MKK	Drawn by: MKK	Checked by: NMP	

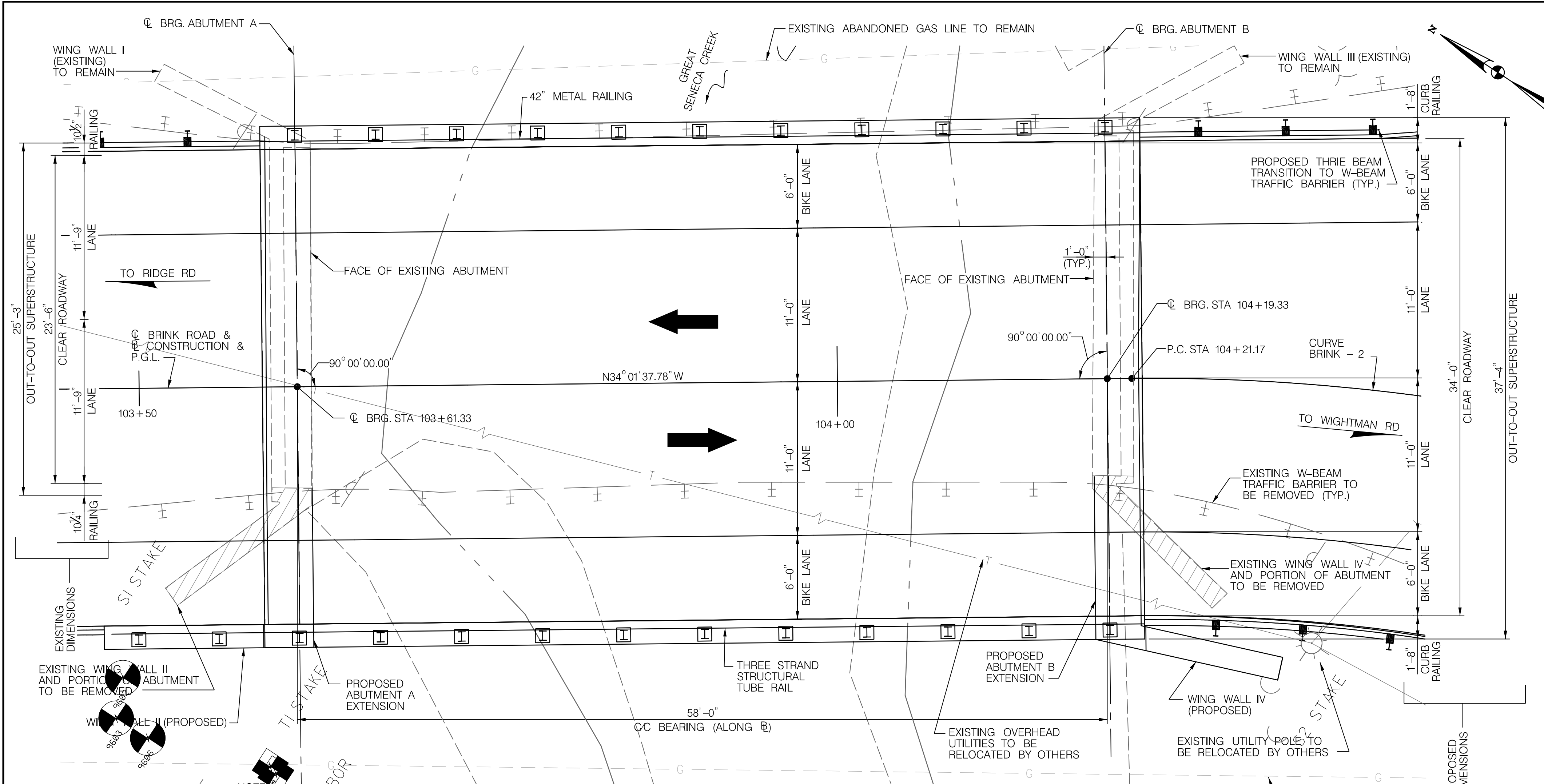
REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK

STORMWATER CONCEPT PLAN

SCALE : 1" = 30'

Project No. : 2000661 (501119) 18 of 28

SW-01



GENERAL NOTES

SPECIFICATIONS:
 -MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY, 2022

DESIGN:
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DATED 2017.

LOADING:
 HL-93

CONCRETE:
 ALL CONCRETE FOR ABUTMENT BACKWALLS, DIAPHRAGMS, DECK, AND CURBS SHALL BE MIX NO. 6 (4500 PSI) CONTAINING SYNTHETIC FIBERS (SEE SECTION 902.15.01).
 ALL OTHER STRUCTURE CONCRETE EXCEPT PRESTRESSED CONCRETE SHALL BE MIX NO. 3 (3500 PSI).

PRESTRESSED CONCRETE:
 CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE $f'_c = 7000$ PSI. WHILE THE MINIMUM COMPRESSIVE STRENGTH AT TRANSFER SHALL BE $f'_ci = 5950$ PSI.

REINFORCING STEEL:
 REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60 WITH A YIELD STRENGTH FOR DESIGN OF $f_y = 6000$ PSI.

ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS.

MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED, WITH THE EXCEPTION OF BARS AT THE BOTTOM AND SIDES OF ALL FOOTINGS WHICH SHALL HAVE 3" MINIMUM COVER.

REINFORCING STEEL SHALL BE EPOXY COATED WHEN NOTED WITH AN EP IN THE PLANS.

PRETENSIONING STEEL:
 PRETENSIONING STEEL SHALL CONSIST OF 1/2" DIAMETER, 7-WIRE BRIGHT LOW RELAXATION STRANDS CONFORMING TO THE REQUIREMENTS OF M203 GRADE 270. EACH STRAND SHALL BE PRETENSIONED TO 31,000 lb (0.75 fpu), HAVE AN ULTIMATE STRENGTH OF 41,300 lb (fpu) AND A YIELD STRENGTH OF 37,200 lb (0.90 fpu).

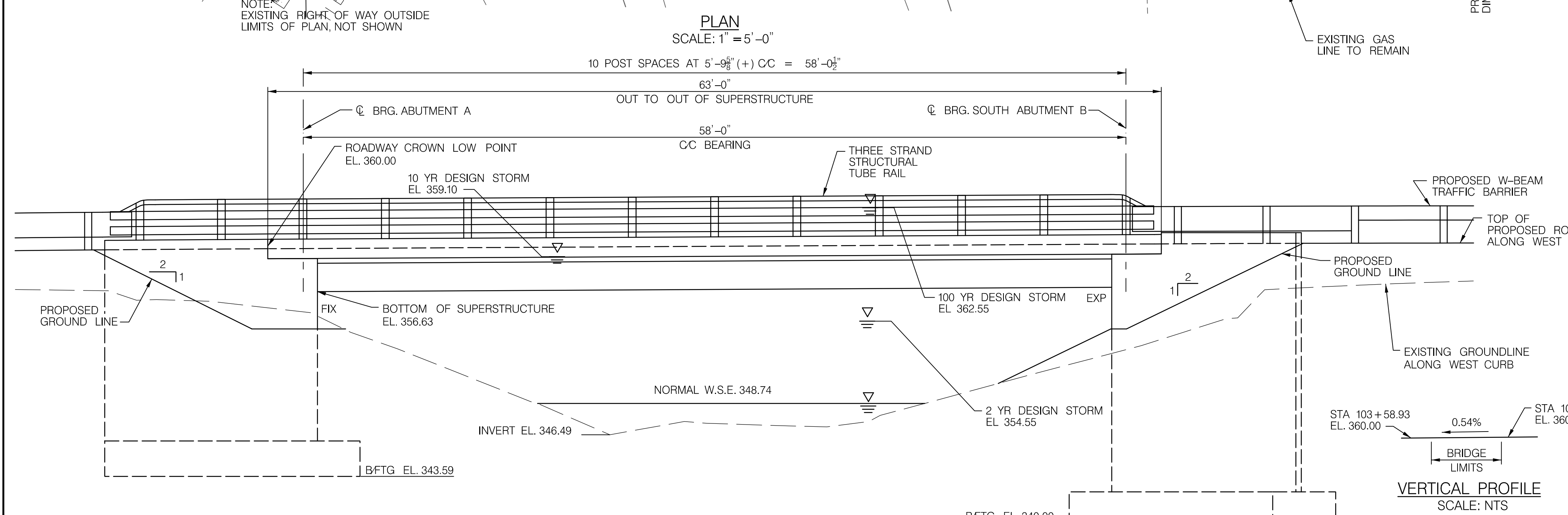
HYDROLOGICAL AND HYDRAULIC DATA:
 FOR HYDROLOGICAL AND HYDRAULIC DATA, SEE SHEET TITLED "HYDROLOGICAL AND HYDRAULIC DATA SHEET".

EXISTING STRUCTURE:
 ALL DIMENSIONS AFFECTED BY THE GEOMETRY AND/OR LOCATION OF THE EXISTING STRUCTURE SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY MATERIAL IS ORDERED OR FABRICATED OR CONSTRUCTION BEGINS.

NO AS-BUILT PLANS ARE AVAILABLE. THE EXISTING BRIDGE ABUTMENT GEOMETRICS, INCLUDING SIZE, SHAPE, AND FOOTING ELEVATION, WERE ESTIMATED FROM EXISTING DESIGN COMPUTATIONS AND SKETCHES DATED 9/1971 AND 11/1971 PROVIDED BY MONTGOMERY CO. THE EXISTING BRIDGE SUPERSTRUCTURE TYPICAL SECTION WAS ESTIMATED FROM THE 2013 INSPECTION REPORT BY THE WILSON T BALLARD COMPANY PROVIDED BY MONTGOMERY CO.

IN-SITU FOOTING ELEVATIONS FOR THE EXISTING STRUCTURE MAY VARY FROM THE APPROXIMATE EXISTING FOOTING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.

EXISTING SUBSTRUCTURE:
 THE PROPOSED BRIDGE WILL UTILIZE THE EXISTING ABUTMENTS AND EXISTING WINGWALLS ON THE EASTERN SIDE BY REHABILITATION AND RECONFIGURATION OF THE BEAM SEATS AND BACKWALLS. THE ROADWAY IS ASSUMED TO BE CLOSED AND THE EXISTING TRAFFIC IS ASSUMED TO BE DETOURED DURING CONSTRUCTION. THE PROPOSED BRIDGE IS WIDER THAN THE EXISTING BRIDGE AND NEW PORTIONS OF SUBSTRUCTURE WILL BE CONSTRUCTED ON THE WESTERN SIDE OF THE BRIDGE FOR THIS WIDENING.



ELEVATION SCALE: 1" = 5'-0"

NOTES:

- FOR REMOVAL OF PORTIONS OF EXISTING ABUTMENTS, REFER TO S-03 & S-04.
- FOR ABUTMENT A PLAN AND ELEVATION, REFER TO S-05.
- FOR ABUTMENT B PLAN AND ELEVATION, REFER TO S-06.
- FOR TYPICAL ABUTMENT SECTIONS, REFER TO S-07.
- FOR WINGWALL II & IV ELEVATIONS, REFER TO S-08.
- FOR TYPICAL BRIDGE SECTION, REFER TO S-09.
- FOR STRUCTURAL BORING LOGS & LOCATION MAP, REFER TO S-10.
- AS-BUILT PLANS ARE NOT AVAILABLE FOR THE EXISTING BRIDGE.

FOUNDATION REVIEW NOT FOR CONSTRUCTION

KCI TECHNOLOGIES **Gannett Fleming**
 A Joint Venture

NO.	REVISION	DATE	BY

DESIGNED BY: VTD DRAWN BY: GMJ CHECKED BY: _____

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: VTD Drawn by: GMJ Checked by: _____

REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK

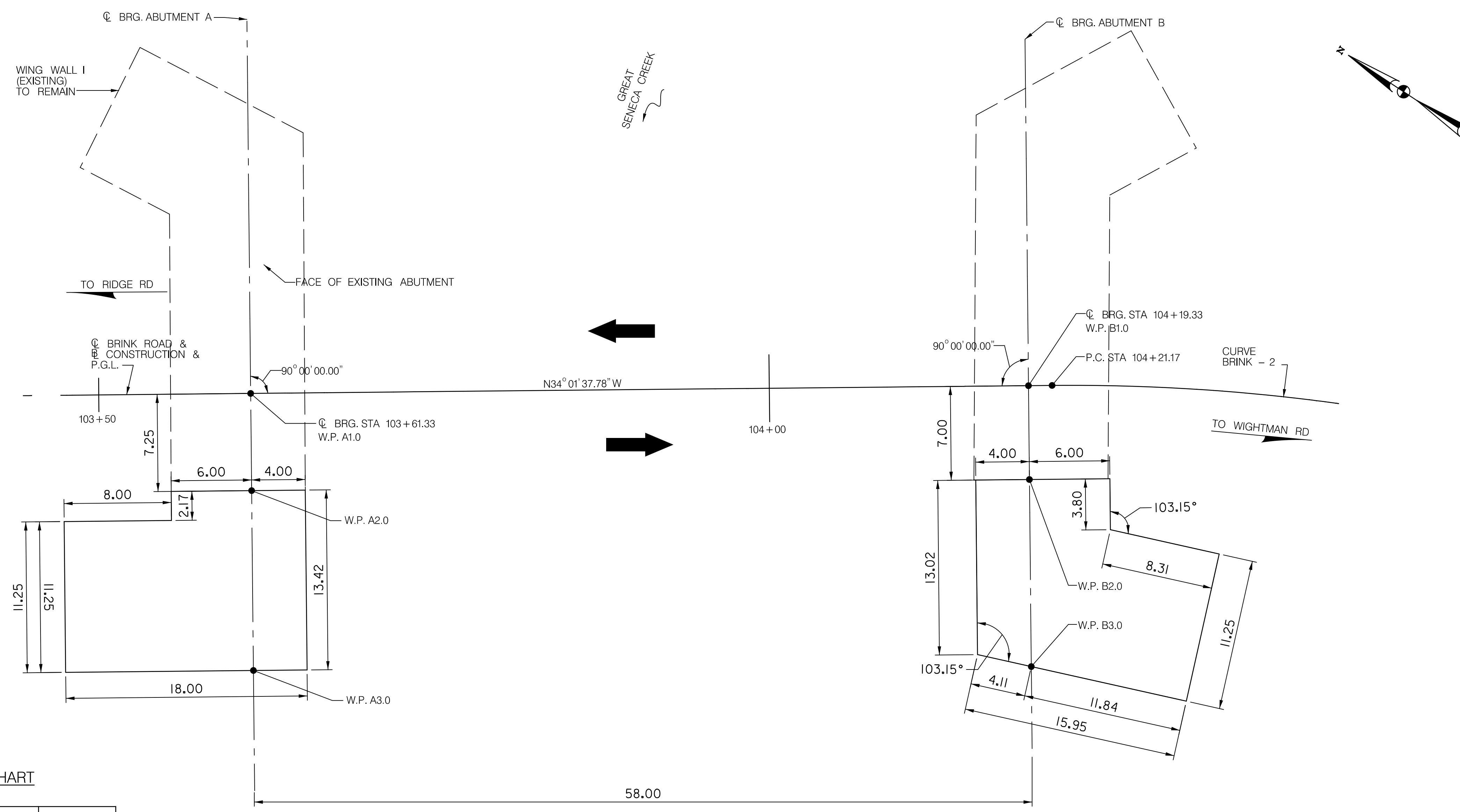
GENERAL PLAN & ELEVATION

SCALE: AS SHOWN

Project No.: 501119

19 of 28

S-01



WORKING POINT LOCATION CHART

WORKING POINT	STATION	OFFSET (FT)	NORTHING	EASTING
A1.0	103+61.33	0.00	1254511.84	559006.76
A2.0	103+61.33	7.25 RT	1254505.84	559002.70
A3.0	103+61.33	20.67 RT	1254494.72	558995.19
B1.0	104+19.33	0.00	1254544.30	558958.69
B2.0	104+19.33	7.00 RT	1254538.50	558954.77
B3.0	104+19.33	20.95 RT	1254526.93	558946.96

GEOMETRIC & FOOTING PLAN
SCALE: 1" = 5'-0"

- NOTES:
1. FOR REMOVAL OF EXISTING ABUTMENT PORTIONS, REFER TO S-03 & S-04.
 2. FOR ABUTMENT A PLAN AND ELEVATION, REFER TO S-05.
 3. FOR ABUTMENT B PLAN AND ELEVATION, REFER TO S-06.
 4. FOR WINGWALL II & IV ELEVATIONS, REFER TO S-08.
 5. AS-BUILT PLANS ARE NOT AVAILABLE FOR THE EXISTING BRIDGE.
 6. ALL FOOTING TURNS ARE 90.00 DEGREES UNLESS OTHERWISE NOTED.

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: VTD Drawn by: GMJ Checked by: _____

**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

GEOMETRIC & FOOTING PLAN

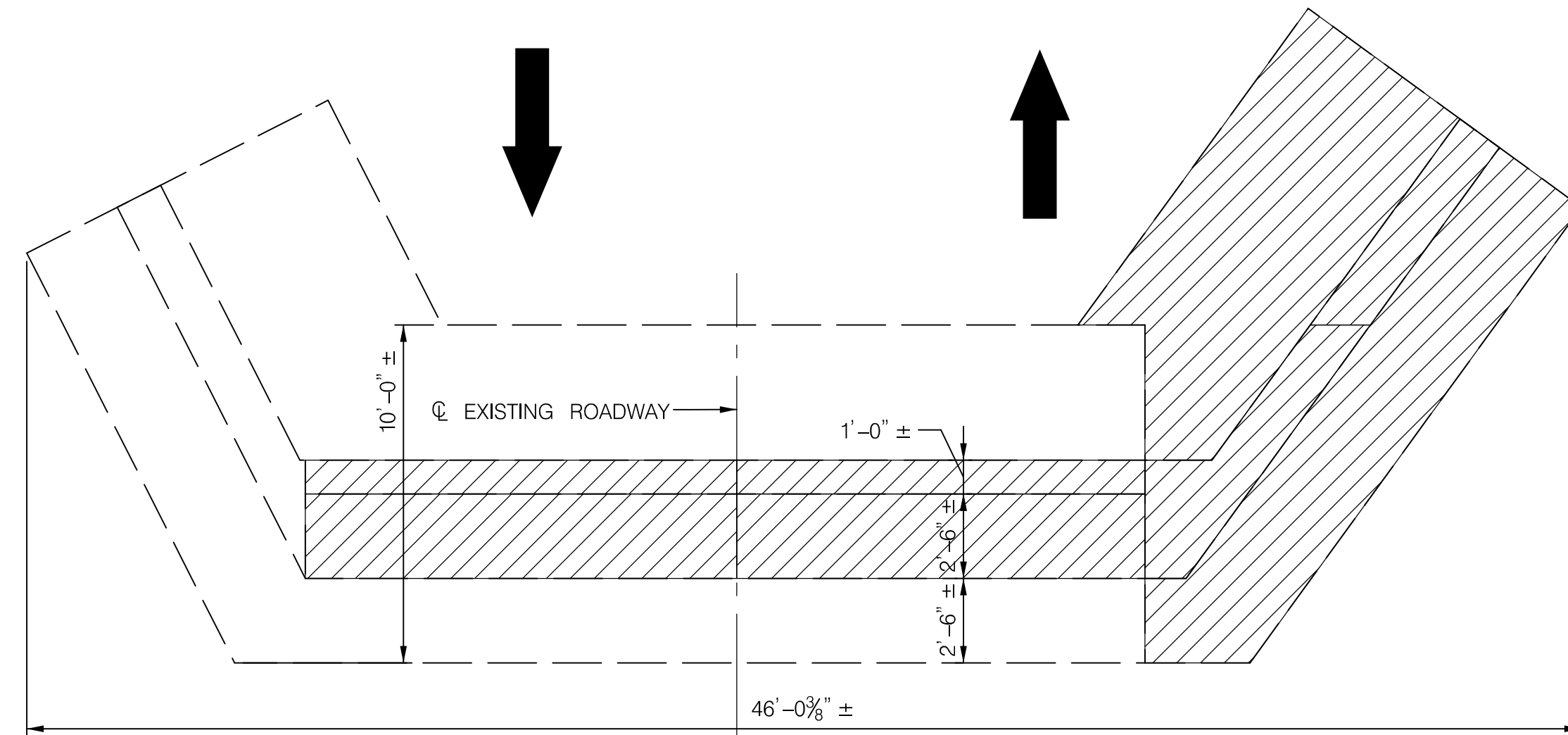
SCALE : AS SHOWN

Project No. : 501119 20 of 28

S-02

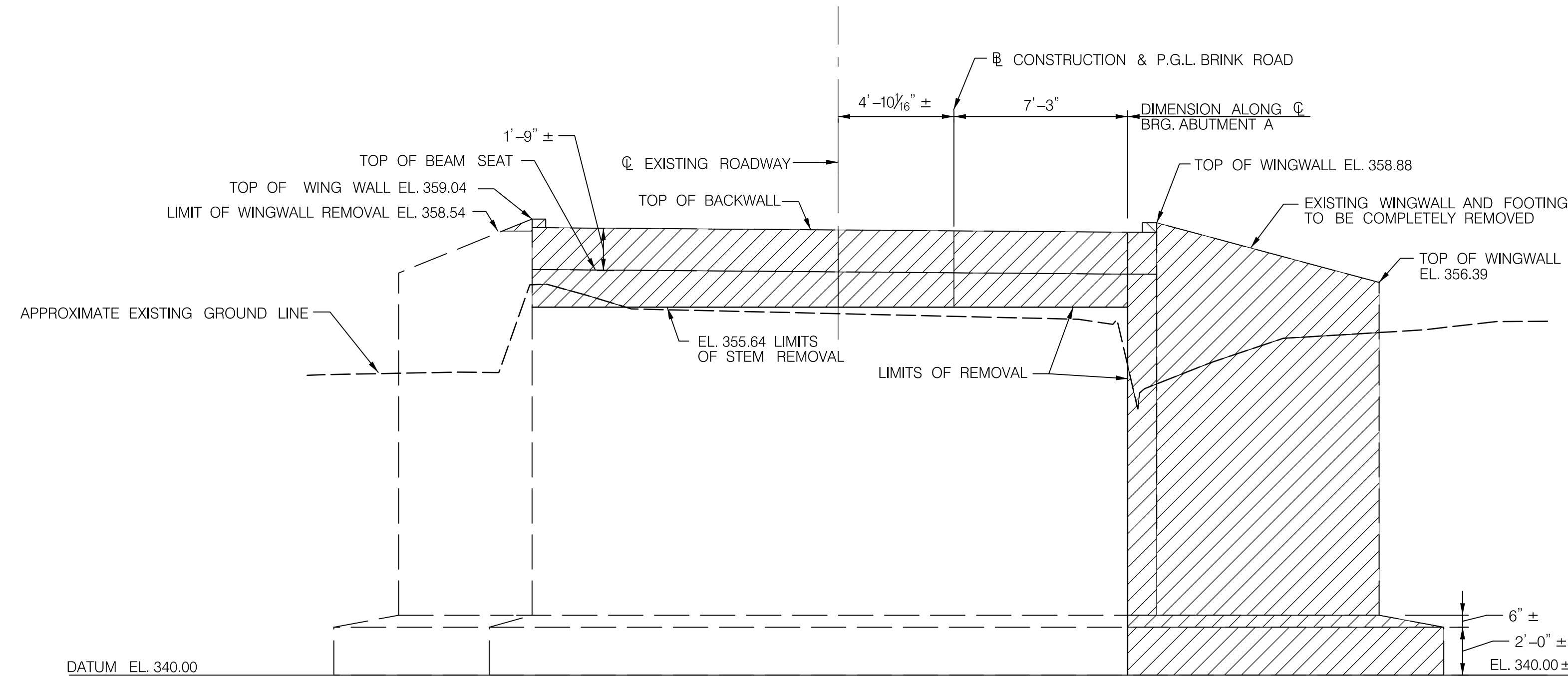
REMOVAL NOTES:

1. IN EXISTING ABUTMENT, EXISTING VERTICAL REINFORCEMENT IS TO BE INCORPORATED IN THE FINAL STRUCTURE AND SHALL BE STRAIGHTENED, CLEANED AND EPOXY COATED. CARE SHALL BE TAKEN NOT TO DAMAGE THESE BARS.
2. ANY EXISTING REINFORCING STEEL WHICH IS TO BE INCORPORATED INTO THE FINAL STRUCTURE:
 - A. AND IN THE OPINION OF THE ENGINEER HAS LOST 20% OR MORE OF ITS ORIGINAL CROSS SECTIONAL AREA SHALL BE CUT OUT. A NEW BAR OF THE SAME DIAMETER SHALL BE PROVIDED AND PLACED AS TO HAVE THE MINIMUM REQUIRED LAP AT THE END OF THE NEW BAR OR BE MODIFIED AS IN C BELOW.
 - B. WHERE THE REQUIRED LAP LENGTH IS AVAILABLE SHALL BE USED AS A DOWEL.
 - C. WHERE THE REQUIRED BAR LAP IS NOT AVAILABLE OR LIMITS OF CONCRETE REMOVAL TO ACHIEVE BAR LAP WOULD BE TOO GREAT, A WELDED OR APPROVED MECHANICAL SPLICE SHALL BE PROVIDED. SEE STANDARD DETAIL M(6.01)-75-12.
3. THE COST OF STRAIGHTENING, CLEANING AND EPOXY COATING REINFORCING STEEL SHALL BE INCLUDED IN THE PRICE BID ON THE SUBSTRUCTURE CONCRETE ITEM.
4. IF EXPECTED REINFORCING STEEL IS MISSING OR A PATTERN DIFFERING FROM THAT SHOWN ON THE PLANS IS UNCOVERED THEN THE ENGINEER SHALL BE NOTIFIED FOR EVALUATION.
5. WHERE THE REMOVAL WILL BE ON AN EXPOSED FACE IN THE FINAL STRUCTURE FIRST SAW CUT ONE INCH DEEP TO NEAT LINES IN CONCRETE SURFACE FORMED CONCRETE OR MORTAR ADJACENT TO EXISTING SO AS TO PRODUCE A SMOOTH SURFACE.



- EXISTING STRUCTURE NOTES:
1. NO AS-BUILT PLANS ARE AVAILABLE.
 2. THE EXISTING BRIDGE ABUTMENT GEOMETRICS, INCLUDING SIZE, SHAPE, AND FOOTING ELEVATION, WERE ESTIMATED FROM EXISTING DESIGN COMPUTATIONS AND SKETCHES DATED 9/1971 AND 11/1971 PROVIDED BY MONTGOMERY CO.
 3. IN-SITU FOOTING ELEVATIONS FOR THE EXISTING STRUCTURE MAY VARY FROM THE APPROXIMATE EXISTING FOOTING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.

ABUTMENT B - PLAN
SCALE: 1/4" = 1'-0"



ABUTMENT B - ELEVATION
SCALE: 1/4" = 1'-0"

 AREA TO BE REMOVED

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

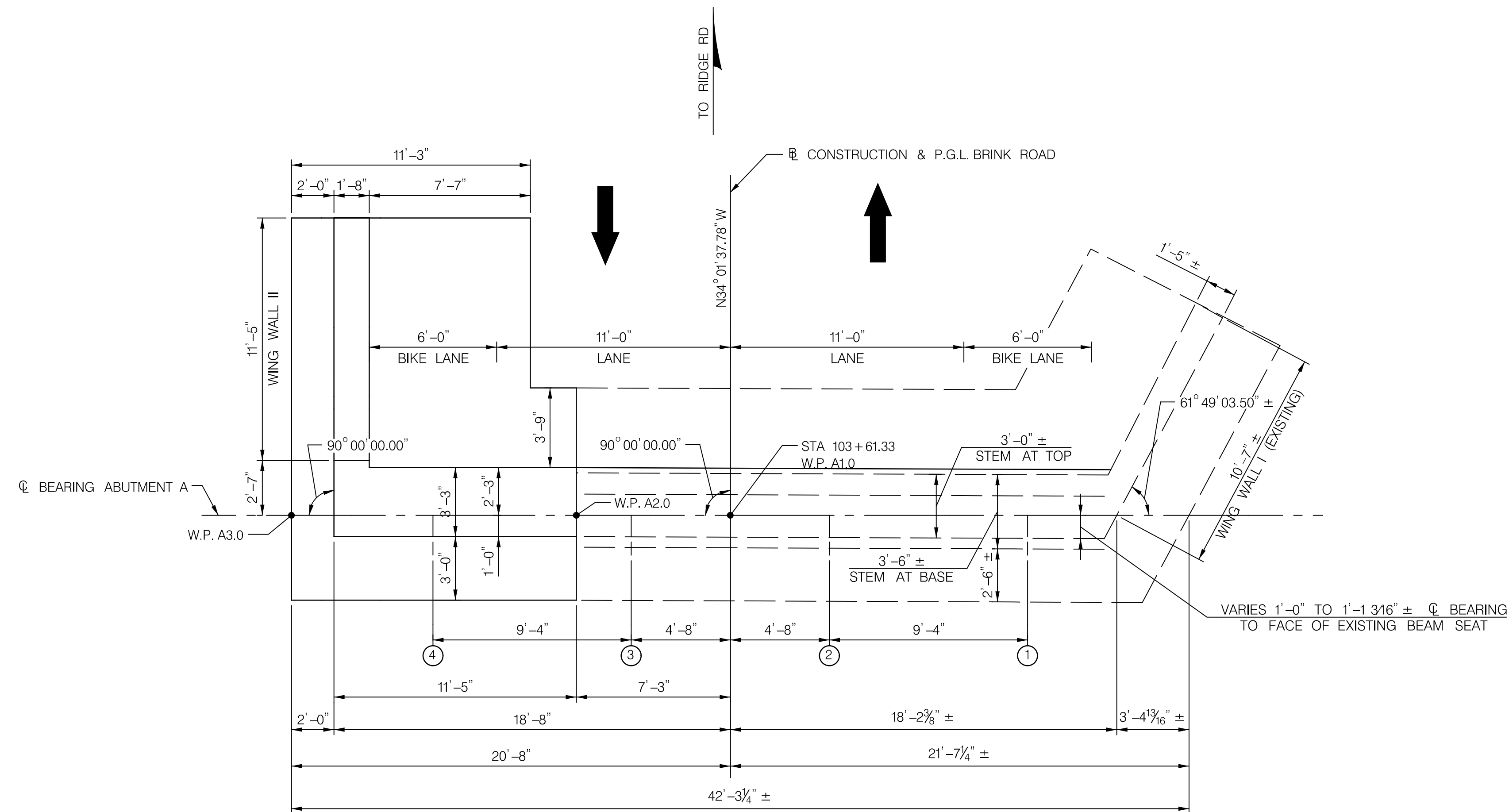
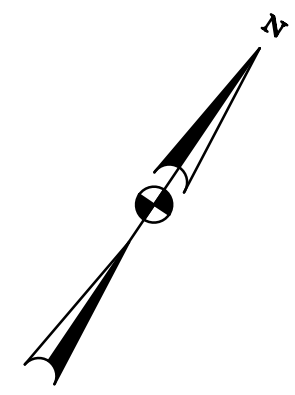
Designed by: VTD _____ Drawn by: GMJ _____ Checked by: _____

REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK

ABUTMENT B REMOVAL

SCALE: _____ S-04

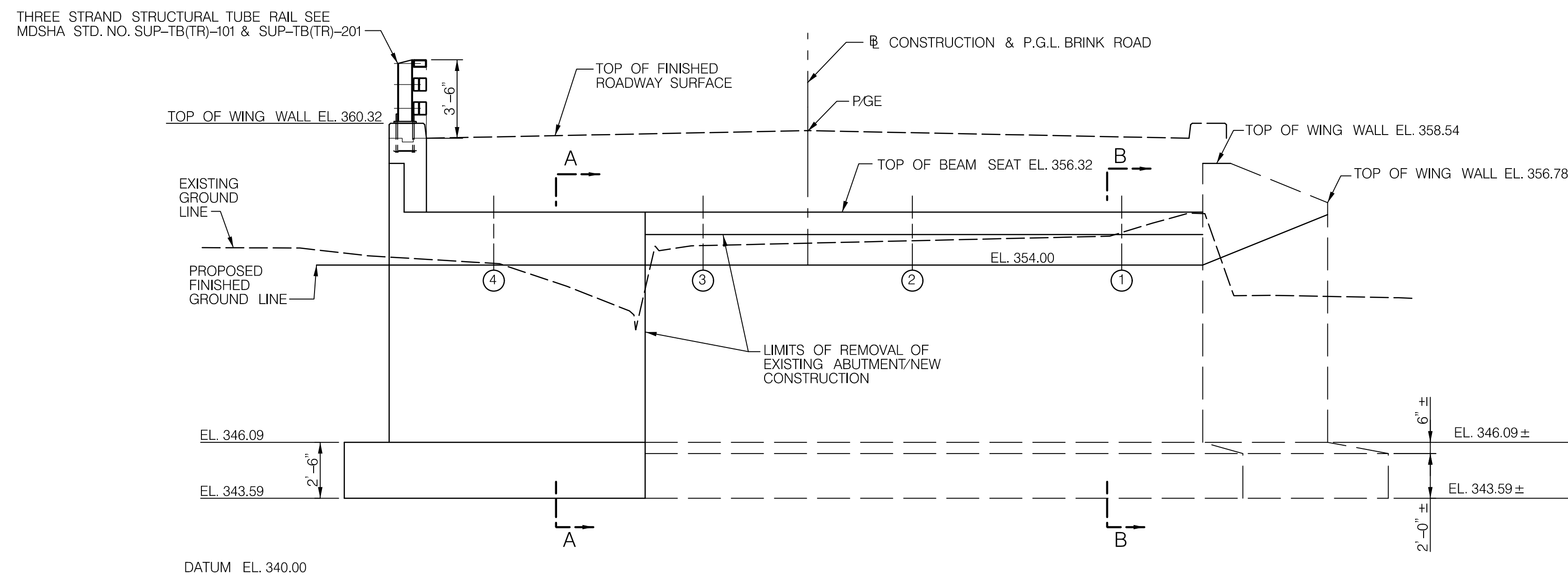
Project No.: 501119 _____ 22 of 28 _____



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

EXISTING STRUCTURE NOTES:

1. NO AS-BUILT PLANS ARE AVAILABLE.
2. THE EXISTING BRIDGE ABUTMENT GEOMETRICS, INCLUDING SIZE, SHAPE, AND FOOTING ELEVATION, WERE ESTIMATED FROM EXISTING DESIGN COMPUTATIONS AND SKETCHES DATED 9/1971 AND 11/1971 PROVIDED BY MONTGOMERY CO.
3. IN-SITU FOOTING ELEVATIONS FOR THE EXISTING STRUCTURE MAY VARY FROM THE APPROXIMATE EXISTING FOOTING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



ELEVATION
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR SECTION A-A & B-B, REFER TO S-07.
2. FOR WING WALL ELEVATIONS AND TYPICAL SECTION, REFER TO S-08.
3. AS-BUILT PLANS ARE NOT AVAILABLE FOR THE EXISTING BRIDGE.
4. THE EXISTING BOTTOM OF FOOTING ELEVATIONS AND ALL EXISTING FOOTING PLAN DIMENSIONS ARE ESTIMATED BASED ON DIMENSIONS FROM A TYPICAL ABUTMENT SECTION SHOWN ON THE EXISTING ABUTMENT CALCULATIONS PROVIDED BY MONTGOMERY COUNTY, MD. ANY VARIATION FOUND IN THE FIELD FROM THE ASSUMED EXISTING ABUTMENT DIMENSIONS WILL REQUIRE THE ABUTMENT DESIGN TO BE VERIFIED BY THE ENGINEER.
5. THE PROPOSED ABUTMENT FOOTING ELEVATIONS ARE DESIGNED TO MATCH THE EXISTING ABUTMENT FOOTING ELEVATIONS, WHICH ARE ESTIMATED BASED ON DIMENSIONS FROM A TYPICAL ABUTMENT SECTION SHOWN ON THE EXISTING ABUTMENT CALCULATIONS PROVIDED BY MONTGOMERY COUNTY, MD. ANY VARIATION FOUND IN THE FIELD FROM THE ASSUMED EXISTING FOOTING ELEVATIONS LARGER THAN 6" AND RESULTING IN A TALLER THAN ANTICIPATED STEM WILL REQUIRE THE ABUTMENT DESIGN TO BE VERIFIED BY THE ENGINEER.
6. AS-BUILT PLANS AND CALCULATIONS ARE NOT AVAILABLE FOR THE EXISTING WING WALLS. THE EXISTING WING WALL FOOTING PLAN DIMENSIONS SHOWN ARE ASSUMED TO MATCH THE EXISTING ABUTMENT TYPICAL SECTION FOOTING DIMENSIONS BASED ON DIMENSIONS FROM A TYPICAL ABUTMENT SECTION SHOWN ON THE EXISTING ABUTMENT CALCULATIONS PROVIDED BY MONTGOMERY COUNTY, MD.
7. PROPOSED ABUTMENT WIDENING TO BE ANCHORED TO EXISTING ABUTMENTS WITH HORIZONTAL REBAR DOWELS DRILLED AND GROUTED INTO EXISTING ABUTMENTS.

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



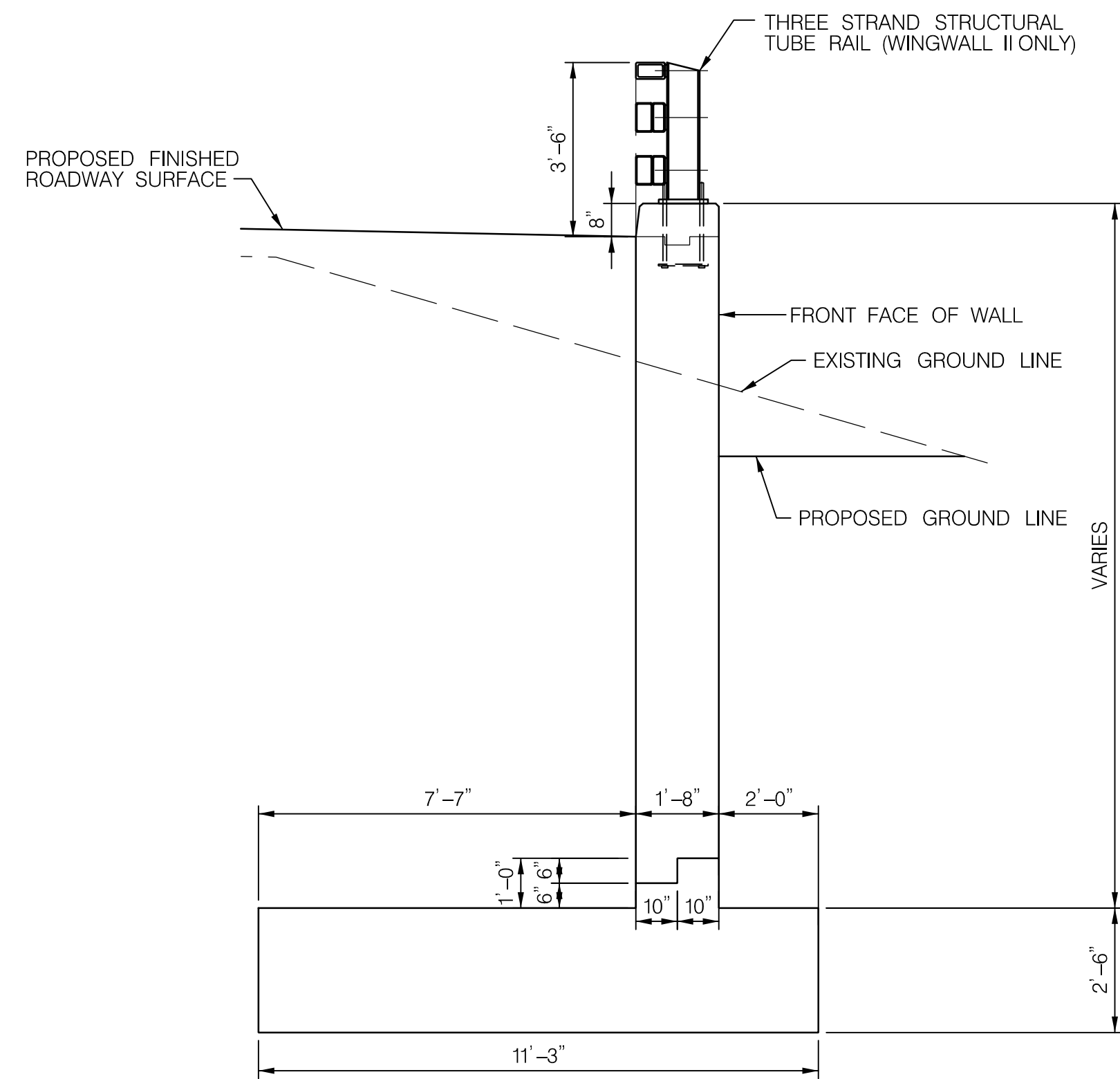
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: VJD	Drawn by: GMJ	Checked by: _____	
NO.	REVISION	DATE	BY

REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK

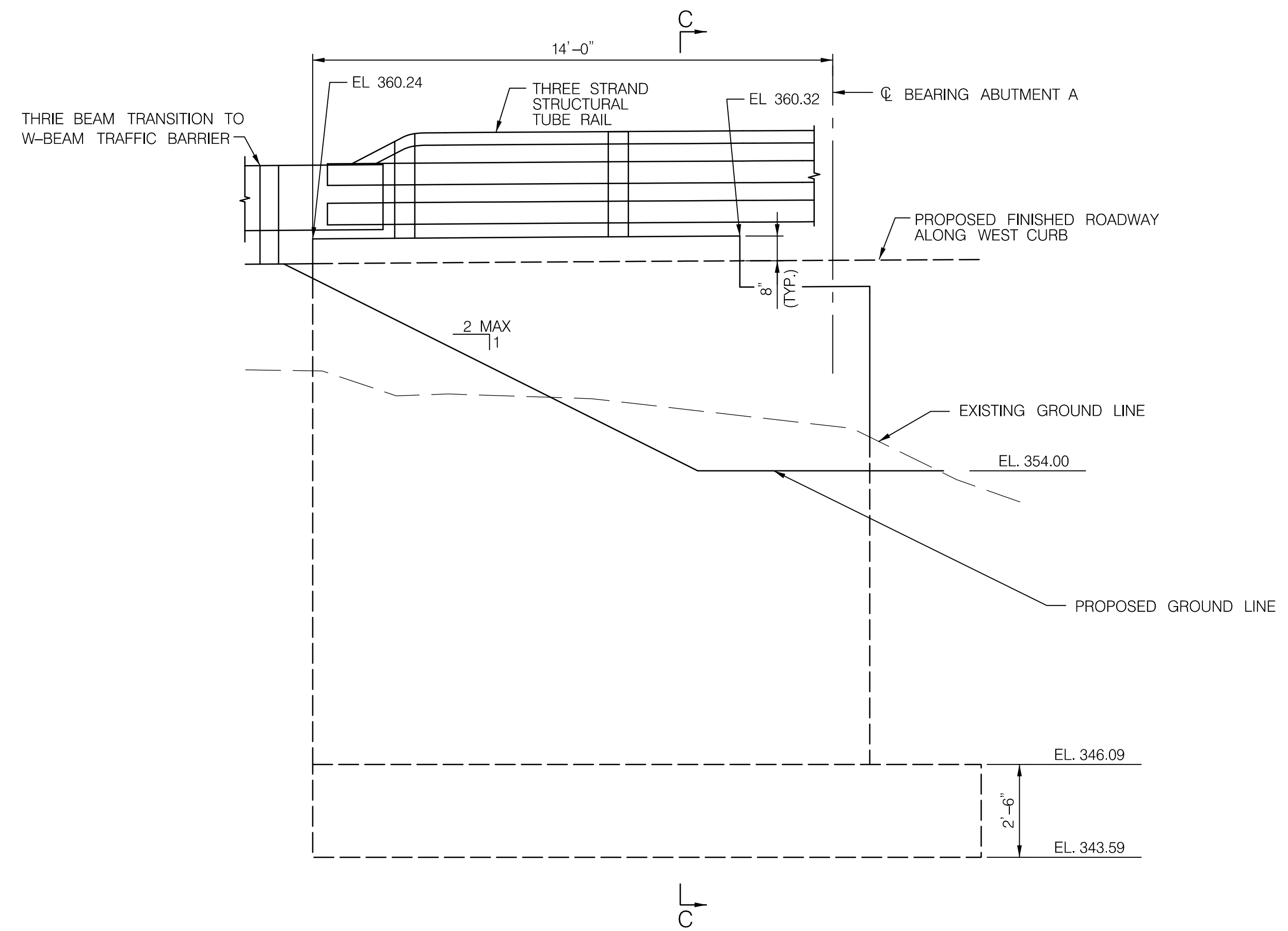
ABUTMENT A PLAN AND ELEVATION

SCALE : _____ S-05

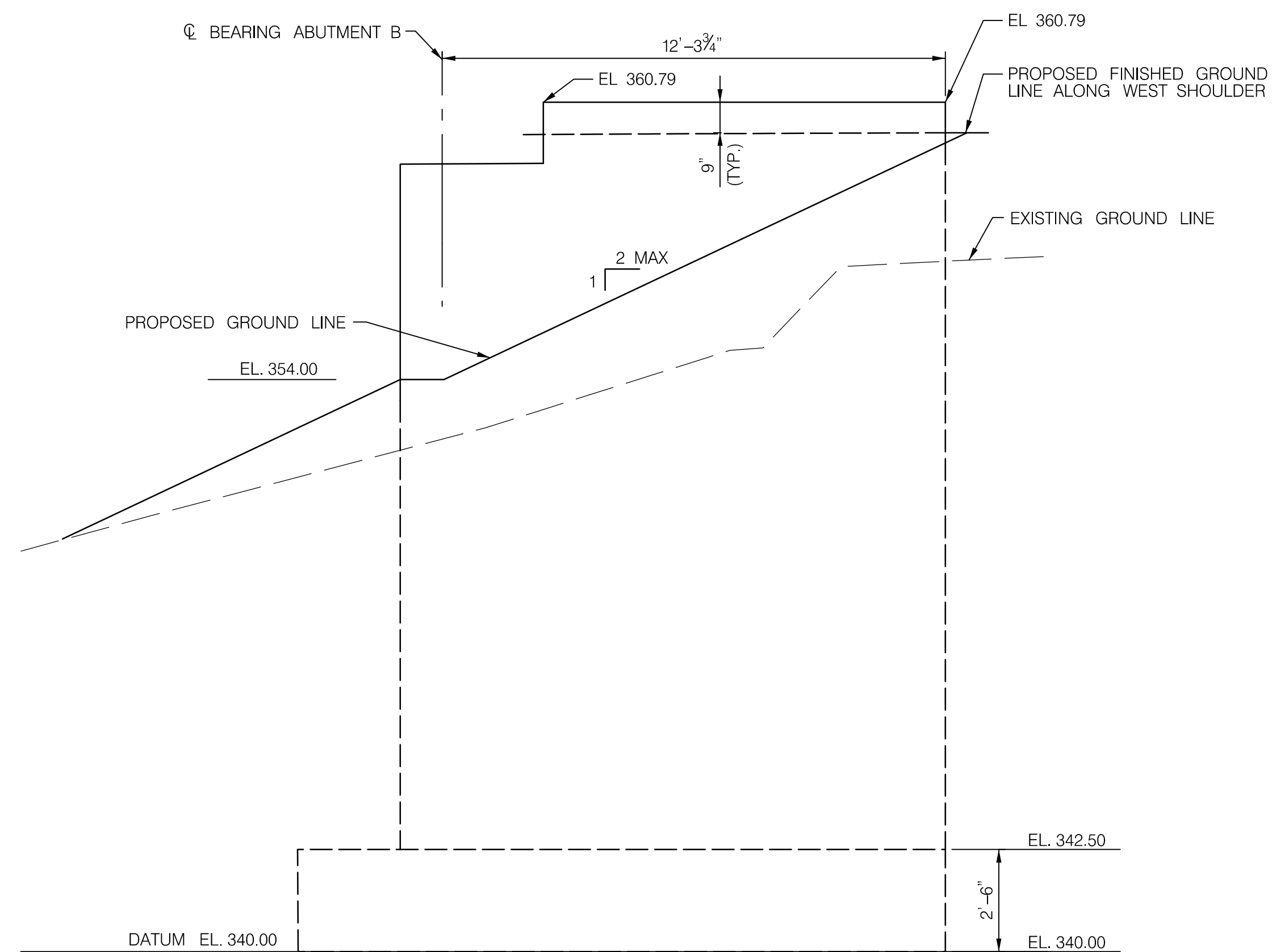
Project No. : 501119 _____ 23 of 28



SECTION C-C: WINGWALL TYPICAL SECTION
SCALE: 3/8" = 1'-0"



WINGWALL II ELEVATION
SCALE: 3/8" = 1'-0"

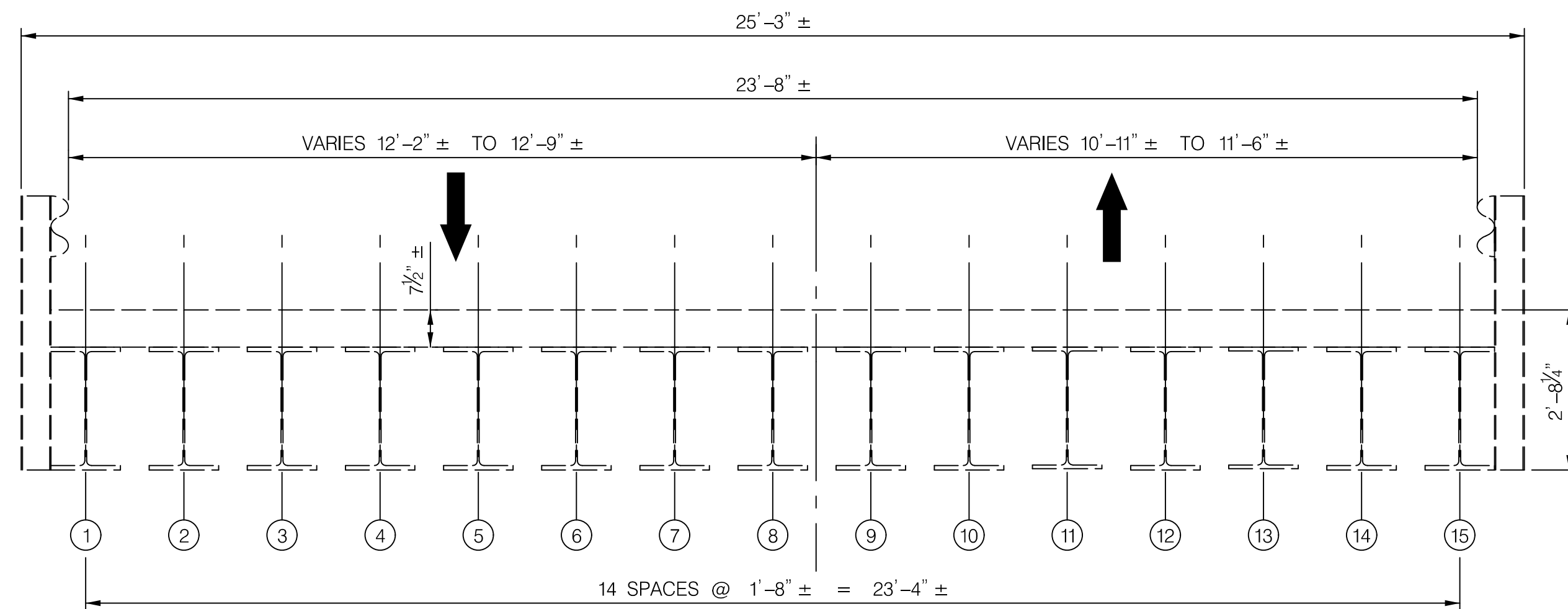


WINGWALL IV ELEVATION
SCALE: 3/8" = 1'-0"

FOUNDATION REVIEW
NOT FOR CONSTRUCTION

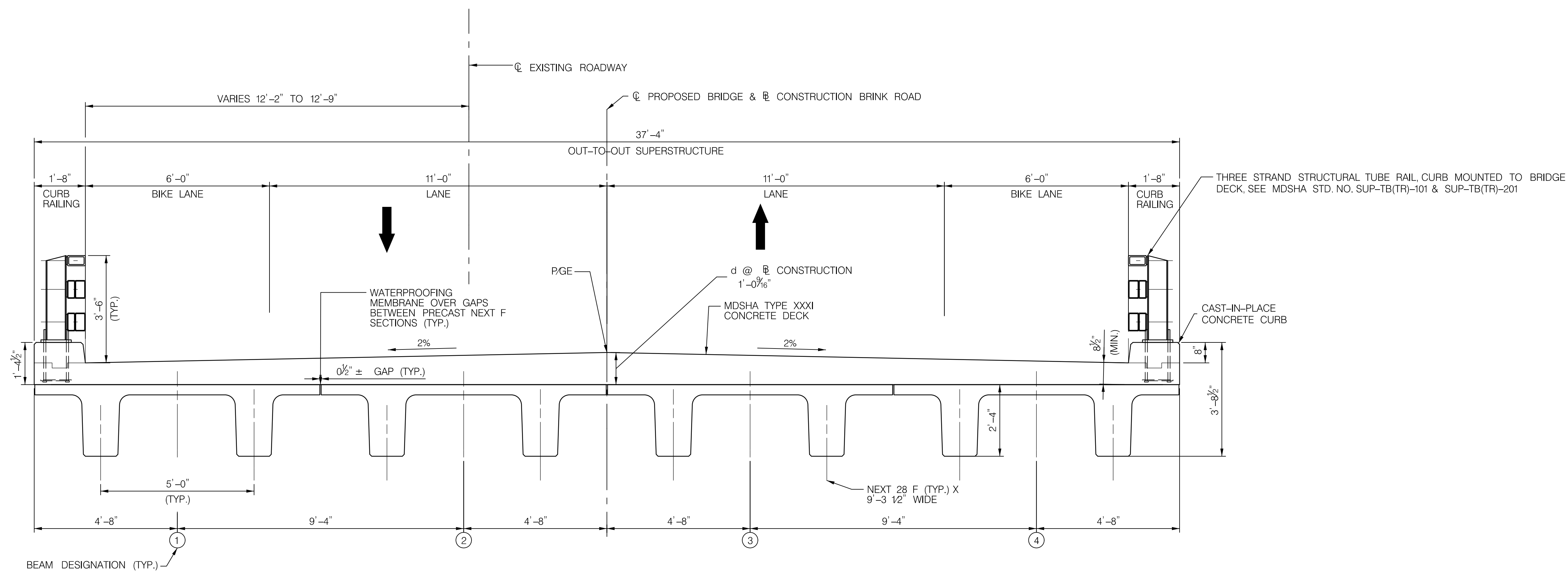


MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK	
RECOMMENDED FOR APPROVAL				WING WALL ELEVATION AND SECTIONS	
Chief, Design Section APPROVED _____		_____ Date		SCALE : 3/4" = 1'-0" S-08	
Chief, Division of Transportation Engineering _____		_____ Date			
Designed by: VTD		Drawn by: GMJ		Checked by: _____	
NO.	REVISION	DATE	BY	Project No. : 501119 26 of 28	



EXISTING BRIDGE TYPICAL SECTION
SCALE: 12" = 1'-0"

- EXISTING STRUCTURE NOTES:
1. NO AS-BUILT PLANS ARE AVAILABLE.
 2. THE EXISTING BRIDGE SUPERSTRUCTURE TYPICAL SECTION WAS ESTIMATED FROM THE 2013 INSPECTION REPORT BY THE WILSON T BALLARD COMPANY PROVIDED BY MONTGOMERY CO.



PROPOSED TYPICAL SECTION
SCALE: 12" = 1'-0"

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: VTD	Drawn by: GMJ	Checked by:	_____
NO.	REVISION	DATE	BY

**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

TYPICAL SECTION

SCALE : AS SHOWN

Project No. : 501119

27 of 28

S-09

Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With KCI Inc/Gannett Fleming Inc JV Boring # S-1
 Project Name Brink Rd Bridge No. M-0064 over Great Seneca Creek Job # 13-00071.05
 Location Montgomery County, MD

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 8 in Foreman M.F.
 Surf. Elev. 355.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector S.H.
 Date Started 9/27/17 Spoon Size 2 in Boring Method HSA Date Completed 9/27/17

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH (ft)	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
354.4	7" of TOPSOIL Dark brown, moist, soft to medium stiff, fine sandy SILT, some rock fragments and gravel, (FILL)	0.6		0.6	D/I	2-3-12	1	DS	13	1. No water encountered. 2. Drill Rig: Acker XLS ATV. 3. Obstruction/wing wall footing encountered 9.5ft - 11.1ft. Borehole terminated at 11.1ft and offset 6 ft west (S-1A). 4. Borehole backfilled at completion.
					D/I	3-2-1	2	DS	18	
					D/I	3-2-3	3	DS	3	
345.5	OBSTRUCTION/WING WALL FOOTING	9.5		9.5	D/I	1-1-50/5"	4	DS	6	
343.9	Bottom of Boring at 11.1 ft	11.1		11.1	D/I	50/1"	5	DS	1	

TFTG ABUT A
EL. 346.09

BFTG ABUT A
EL. 343.59

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON	D - DISINTEGRATED	AT COMPLETION <u>0.0</u> ft	HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE	I - INTACT	AFTER 24 HRS. _____ ft	CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER	U - UNDISTURBED	CAVED AT <u>8.2</u> ft	DC - DRIVING CASING
RC - ROCK CORE	L - LOST		MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" Ø SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With KCI Inc/Gannett Fleming Inc JV Boring # S-1A
 Project Name Brink Rd Bridge No. M-0064 over Great Seneca Creek Job # 13-00071.05
 Location Montgomery County, MD

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 8 in Foreman M.F.
 Surf. Elev. 355.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector S.H.
 Date Started 9/27/17 Spoon Size 2 in Boring Method HSA Date Completed 9/27/17

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH (ft)	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
347.0	AUGER TO 8 FT W/O SAMPLING, (FILL) Dark brown, moist fine sandy silt, some rock fragments and gravel (auger cuttings)	8.0		8.0	D/I					1. Water encountered at 12.0 ft. 2. Drill Rig: Acker XLS ATV. 3. Borehole offset 6ft west of S-1. 4. Auger and spoon refusal at 17.5ft.
344.0	AUGER TO 11 FT W/O SAMPLING, (FILL) Dark gray, moist, silty clay, trace gravel	11.0		11.0	D/I					
					D/I	50/4.5"	1	DS	4	
					D/I	50/0"	2	DS	0	
337.5	Bottom of Boring at 17.5 ft	17.5		17.5						

TFTG ABUT A
EL. 346.09

BFTG ABUT A
EL. 343.59

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON	D - DISINTEGRATED	AT COMPLETION <u>7.9</u> ft	HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE	I - INTACT	AFTER 24 HRS. _____ ft	CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER	U - UNDISTURBED	CAVED AT <u>8.2</u> ft	DC - DRIVING CASING
RC - ROCK CORE	L - LOST	CAVED AT <u>10.5</u> ft	MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" Ø SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With KCI Inc/Gannett Fleming Inc JV Boring # S-2
 Project Name Brink Rd Bridge No. M-0064 over Great Seneca Creek Job # 13-00071.05
 Location Montgomery County, MD

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 8 in Foreman M.F.
 Surf. Elev. 353.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector S.H.
 Date Started 9/26/17 Spoon Size 2 in Boring Method HSA Date Completed 9/26/17

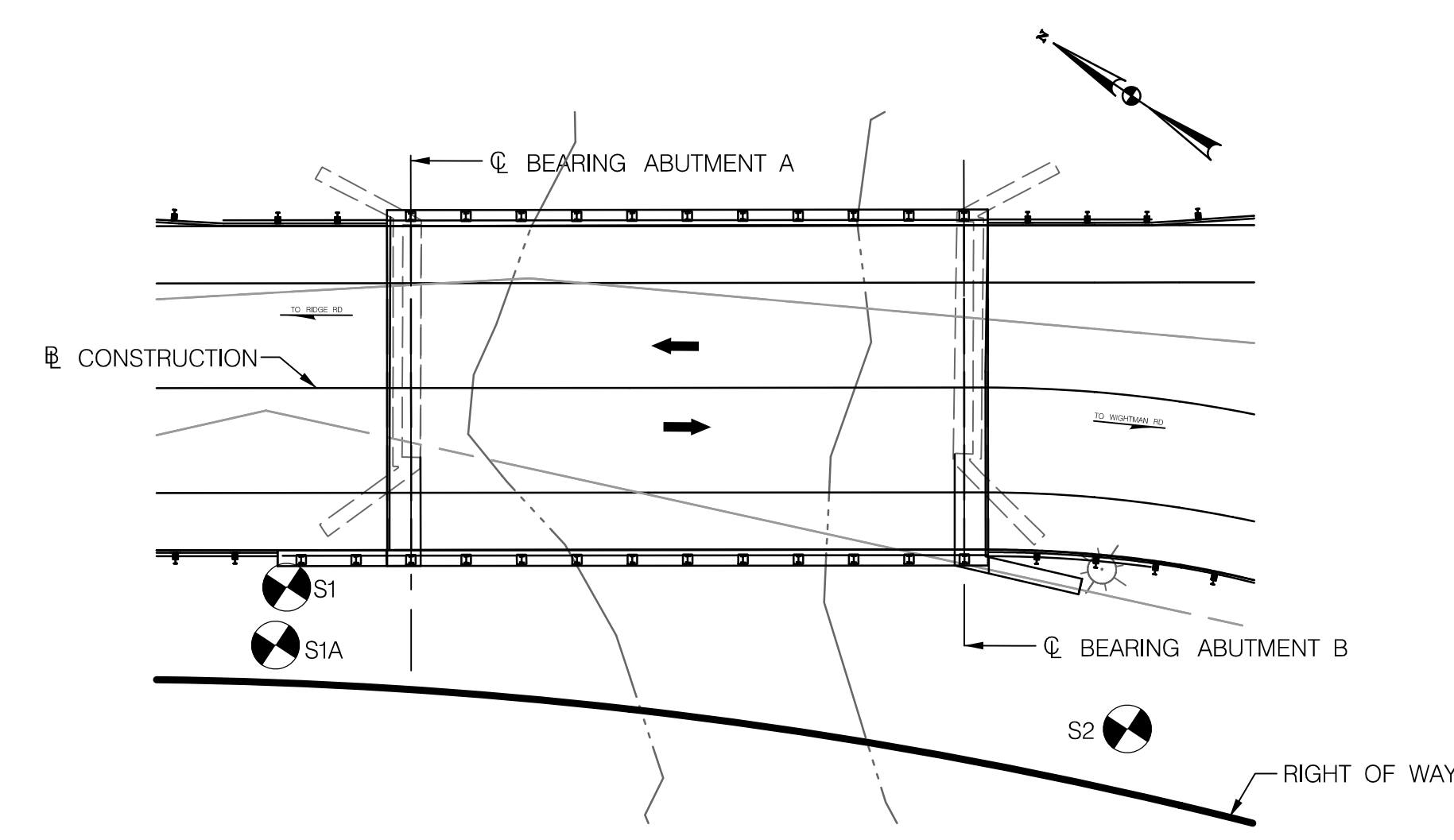
ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH (ft)	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
352.3	8" of TOPSOIL Brown, moist, medium stiff, SILT, some boulders, trace gravel and organics, (FILL)	0.7		0.7	D/I	3-7-3	1	DS	18	1. Water encountered at 8.0 ft. 2. Drill Rig: Acker XLS ATV.
349.5	Brown to dark gray, moist, very soft, silty CLAY, some roots and organics	3.5		3.5	D/I	1-1-1	2	DS	18	3. Bulk sample obtained 7 ft north of S-2 from surface to 5ft.
345.0	Gray-brown, moist, medium dense, silty fine SAND WITH ROCK FRAGMENTS, little mica	8.0		8.0	D/I	WOH/18"	3	DS	18	4. Hard drilling 17ft to 20ft.
					D/I	4-5-6	4	DS	18	5. Auger and spoon refusal at 20ft.
340.0	Gray-brown, damp, very dense, silty SAND AND ROCK FRAGMENTS, (WEATHERED ROCK)	13.0		13.0	D/I	50/4"	5	DS	4	
					D/I	50/0"				
					D/I	50/0.5"				0.5
333.0	Bottom of Boring at 20.0 ft	20.0		20.0		50/0"				0

TFTG ABUT B
EL. 342.50

BFTG ABUT B
EL. 340.00

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON	D - DISINTEGRATED	AT COMPLETION <u>14.0</u> ft	HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE	I - INTACT	AFTER 24 HRS. _____ ft	CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER	U - UNDISTURBED	AFTER 24 HRS. <u>2.4</u> ft	DC - DRIVING CASING
RC - ROCK CORE	L - LOST	CAVED AT <u>12.1</u> ft	MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" Ø SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS



FOUNDATION REVIEW
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: <u>VTD</u>	Drawn by: <u>GMJ</u>	Checked by: _____	

**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

BORING LOGS AND DRIVE TESTS

SCALE : S-10

Project No. : 501119 28 of 28

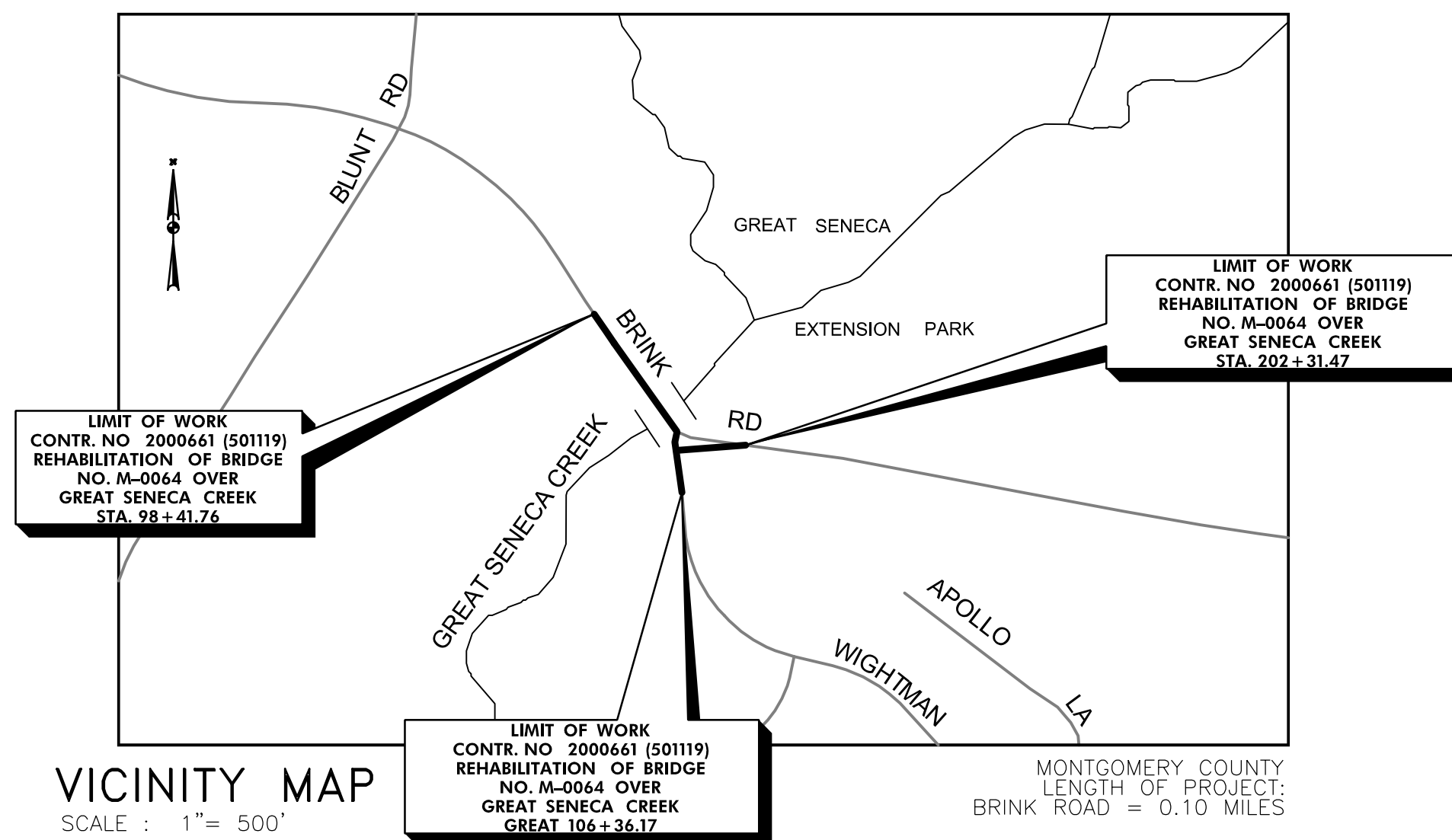
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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

REHABILITATION OF BRIDGE
NO. M-0064 OVER GREAT
SENECA CREEK

C.I.P. PROJECT NO. 501XXX



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, MONTGOMERY COUNTY, AND THE WASHINGTON SUBURBAN SANITARY COMMISSION.
- TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
- WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES, WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
- ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
- 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 NOTED UTILITY POLE RELOCATION AT THE BRIDGE ABUTMENT WIDENING SHALL BE PERFORMED BY OTHERS PRIOR TO BRIDGE CONSTRUCTION.
- THE CONTRACTOR SHALL CONSTRUCT ALL DRIVEWAY TIE-INS IN-KIND TO THE LIMIT SHOWN ON THE PLANS.
- TWO TO THREE DAYS BEFORE EXCAVATING IN THE VICINITY OF EXISTING GAS LINE, CONTACT MARYLAND'S 811 CENTER TO NOTIFY WASHINGTON GAS OF THE TIMING AND LOCATION OF THE INTENDED EXCAVATION, WAIT FOR WASHINGTON GAS OR REPRESENTATIVE TO ARRIVE AND MARK THE LOCATION OF THE EXISTING PIPELINE FACILITY PRIOR TO EXCAVATION. FOLLOW ALL REQUIREMENTS OF THE CODE OF FEDERAL REGULATIONS TITLE 49 SUBPART 196.
- THE PERMITTEE SHALL CONTACT MS. STELLA O. IGBINEDION AT (240) 777-2190 TO REQUEST ANY FIELD ASSISTANCE BY THE MCDOT TRAFFIC ENGINEERING AND OPERATIONS SECTION.

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 Transportation "Drainage Design" dated November, 2013 (Rev. June 10, 2014)

I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to be _____ cubic yards of excavation and _____ cubic yards of fill and that the total area to be disturbed as shown on these plans has been determined to be _____ square feet.

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: _____

**MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
MAINTENANCE CERTIFICATION**

I hereby certify that the Department of Transportation will assume maintenance responsibilities for all stormwater management facilities as listed and shown, hereon, in accordance with the MEMORANDUM OF UNDERSTANDING between this Department and the Department of Environmental Protection dated September 1, 1986. If, for any reason, future improvements to the roadway are planned that would impact any of the stormwater management facilities included herein, this Department will notify the Department of Environmental Protection during the planning or early design stage for such improvements.

DATE

BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

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

BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DESIGN DESIGNATION

ROADWAY	BRINK ROAD	
CONTROLS / YEARS	2019	2039
AVERAGE DAILY TRAFFIC (A.D.T.)	13,800	16,600
DESIGN HOURLY VOLUME (D.H.V.)	9.5%	9.5%
DIRECTIONAL DISTRIBUTION	55%	55%
% TRUCKS - A.D.T.	10.2%	10.2%
% TRUCKS - D.H.V.	6.7%	6.7%
DESIGN SPEED M.P.H.	30 M.P.H.	
MASTER PLAN CLASSIFICATION	ARTERIAL (A-36)	
MAXIMUM ALLOWABLE SUPER ELEVATION	6%	
MAXIMUM ALLOWABLE GRADIENT	8%	
ANTICIPATED POSTED SPEED	30 M.P.H.	
DESIGN CRITERIA	AASHTO 2018: A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS	
DENSITY (U.S.R)		

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.: XXXXX
Expiration Date: XX/XX/202X

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE FROM WHICH APPROVAL IF THE PROJECT HAS NOT STARTED. UNLESS THE PERMIT HAS BEEN EXTENDED.



FOUNDATION REVIEW
NOT FOR CONSTRUCTION

CONVENTIONAL SYMBOLS EXISTING CONSTRUCTION

PROPERTY LINE	
EDGE OF ROADWAY PAVING	
EXISTING GROUND CONTOURS (10')	
EXISTING GROUND CONTOURS (2')	
FENCE	
EDGE OF WOODED AREAS	
TREE (FREE STANDING)	
WETLAND BUFFER	
SIGN	
LIGHT POLE	
MAILBOX	
UTILITY POLE	
STORM DRAIN	
WATER LINE	
SANITARY	
GAS	
ELECTRICAL HAND BOX - SIGNALS	
ELECTRIC (OVERHEAD)	

CONVENTIONAL SYMBOLS PROPOSED CONSTRUCTION

CONSTRUCTION	
CURB & GUTTER	
TRAVERSE POINT	
FULL DEPTH CONSTRUCTION	
MILL AND RESURFACE	
PAVEMENT REMOVAL	
CONCRETE PAVEMENT	
HMA BIKE PATH	
PERVIOUS PAVEMENT	
TRAFFIC BARRIER W BEAM	
TRAFFIC BARRIER W BEAM MEDIAN BARRIER	
APPROXIMATE LIMITS OF CUT AND/OR FILL	
GRADING ELEVATION CONTOURS (10')	
GRADING ELEVATION CONTOURS (2')	
LIMIT OF DISTURBANCE	
STORM DRAIN PIPE	

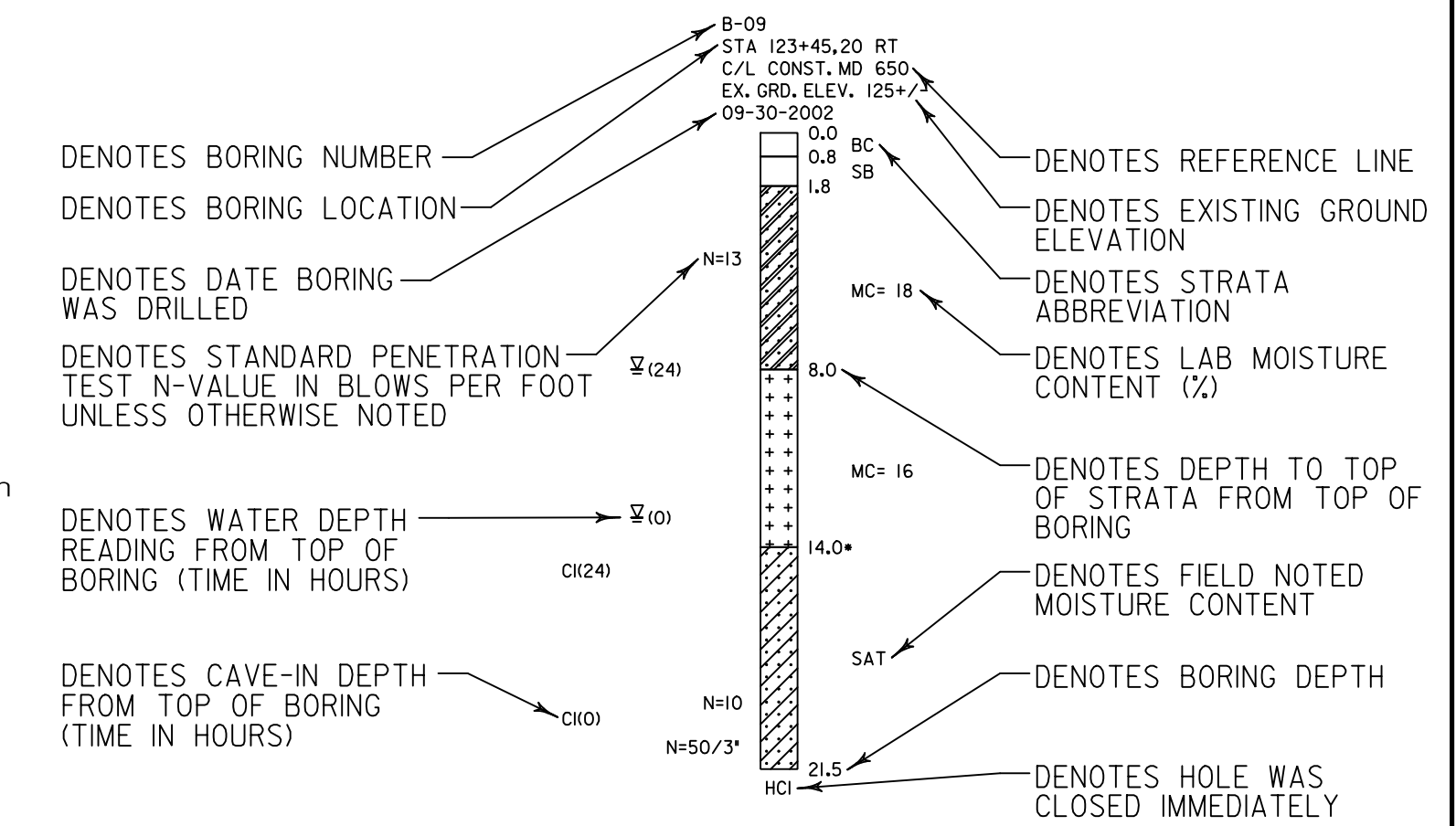
ABBREVIATIONS

AASHTO American Association of State Highway Transportation Officials	IN Inch	R.Q.D. Rock Quality Designation
ADT Average Daily Traffic	INV Invert	R.M. Rootmat
AHD Ahead	I.S.T Inlet Sediment Trap	RT Right
AO Above Optimum	J.B. Junction Box	RW or RW Right of Way
APPROX Approximate	K K Inlet	S South
ASSRPA Aluminized Steel Spiral Rib Pipe Arch	L Length	SAN Sanitary Sewer
B.C. Bituminous Concrete	LF Linear Feet	SAT Saturated
BIT Bituminous	LIQ Liquefied	SB or SB Southbound
BK Back	L.L. Liquid Limit	S.B. Stone Base
BL or BL Baseline	LP Low Point	S.B.R. Southbound Roadway
B.M. Bench Mark	L.P. Light Pole	S.D. Storm Drain
BOT Bottom	LT Left	S.D.D. Surface Drain Ditch
CAP Corrugated Aluminum Pipe	LVC Length of Vertical Curve	SDWK Sidewalk
CAPA Corrugated Aluminum Pipe Arch	MAC Macadam	SE Superelevation
CATV Cable Television	MAX Maximum	SF Silt Fence
C.B.R. California Bearing Ratio	M.B. Mailbox	SF Square Feet
C.C. Center of Curve	M.C. Moisture Content	SHC Sanitary House Service Connection
C.I. Cave In	MD Maryland	SHLD Shoulder
CL or CL Centerline	M.D.D. Maximum Dry Density	SHT Sheet
CL Class	MIN. Minimum	SO Single Opening
CLF Chainlink Fence	MOD. Modified	SPP Structural Steel Plate Pipe
CMP Corrugated Metal Pipe	N North	SPPA Structural Steel Plate Pipe Arch
C.O. Cleanout	NB Northbound	S.P.T. Standard Penetration Testing
COMB Combination	N.B.R. Northbound Roadway	SRP Steel Spiral Rib Pipe -
CONC Concrete	N.D.C. Nose Down Curb	Aluminized Type 2
CONSTR Construction	NE Northeast	Steel Spiral Rib Pipe Arch -
COR Corner	NORM. Normal	Aluminized Type 2
CORR Correction	N.P. Non-Plastic	SSD Stopping Sight Distance
CPP-S Corrugated Polyethylene Pipe - Type 'S'	O.C. On Center	SSF Super Silt Fence
CSP Corrugated Steel Pipe - Aluminized Type 2	OHE Overhead Electric	STA Station
CSPA Corrugated Steel Pipe Arch -	O.M. Optimum Moisture	STD Standard
Aluminized Type 2	PAV T Pavement	SWM Stormwater Management
CY Cubic Yards	PC Point of Curvature	SY Square Yards
DC Degree of Curve	PCC Point of Compound Curvature	T Tangent (Curve Data)
DELTA Central Angle (Curve Data)	P.C.C. Portland Cement Concrete	T Telephone
D.H.V. Design Hourly Volume	PC Point of Crown	T.C. Top of Curb
D.I. Drop Inlet	PGE Profile Grade Elevation	T.G. Top of Gate
DIA Diameter	P.G.E. Profile Ground Elevation	TH-X Test Hole and Number
D.O. Double Opening	P.G.L. Profile Grade Line	T or TL Traverse Line
E East	PGL Profile Ground Line	T.M. Top of Manhole
E Electric	P.R Point of Rotation	TRAV Traverse
E External Distance (Curve Data)	P.I. Plasticity Index	TS Temporary Swale
EA Each	PI Point of Intersection	T.S. Top of Slab
EB Eastbound	POB Point of Beginning	T.S. Topsoil
E.B.R. Eastbound Roadway	POC Point on Curve	TYP Typical
ELEV Elevation	POE Point of Ending	U.D. Under Drain
EOP Edge of Pavement	POT Point on Tangent	U.G. Underground
ES End Section	PP Plastic Pipe	U.P. Utility Pole
EX or EXIST Existing	P.P.C.C Plain Portland Cement Concrete	USDA United States Department
F or FL Flowline	PPWP Polyvinyl Chloride Profile Wall Pipe	of Agriculture
F.B.D. Flat Bottom Ditch	PRC Point of Reverse Curve	VC Vertical Curve
F.H. Fire Hydrant	PROP Proposed	VCL Vertical Clearance
FT Feet	PT Point	V.C.L. Vertical Curve Length
FWD Forward	PT Point of Tangency	VPC Vitrified Polymer Composite
G Gas	PVC Point of Vertical Curve	W Water
GHC Gas House Service Connection	PVC Polyvinyl Chloride	W West
G.V. Gas Valve	PVCC Point of Vertical Compound Curve	WB Westbound
H.B. Handbox	PVI Point of Vertical Intersection	WB Wetland Buffer
HDPE High Density Polyethylene	PVRC Point of Vertical Reverse Curve	W.B.R. Westbound Roadway
HDWL Headwall	PVT Point of Vertical Tangency	W.H.C. Water House Service Connection
HERCP Horizontal Elliptical Reinforced Concrete Pipe	R Radius	W.M. Water Meter
HP High Point	RCP Reinforced Concrete Pipe	W.S. Wrapped Steel
	RCPP Reinforced Concrete Pressure Pipe	WUS Waters of the United States
	R.F. Rock Fragments	W.V. Water Valve

INFORMATION TO BE RECEIVED FROM OMT

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	-

SOILS LEGEND SAMPLES

	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 (%)
SAT-SATURATED	PI-PLASTICITY INDEX (%)
LIQ-LIQUEFIED	NP-NON-PLASTIC
TS-TOPSOIL	OMC-OPTIMUM MOISTURE CONTENT (%)
RM-ROOT MAT	USC-UNIFIED SOIL CLASSIFICATION
BC-BITUMINOUS CONCRETE	USDA-UNITED STATES DEPARTMENT OF AGRICULTURE CLASSIFICATION
SB-STONE BASE	W/GR-WITH GRAVEL
PCC-PORTLAND CEMENT CONCRETE	W/R-F-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 & OMC PER A.A.S.H.T.O. DESIGNATION T-180

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

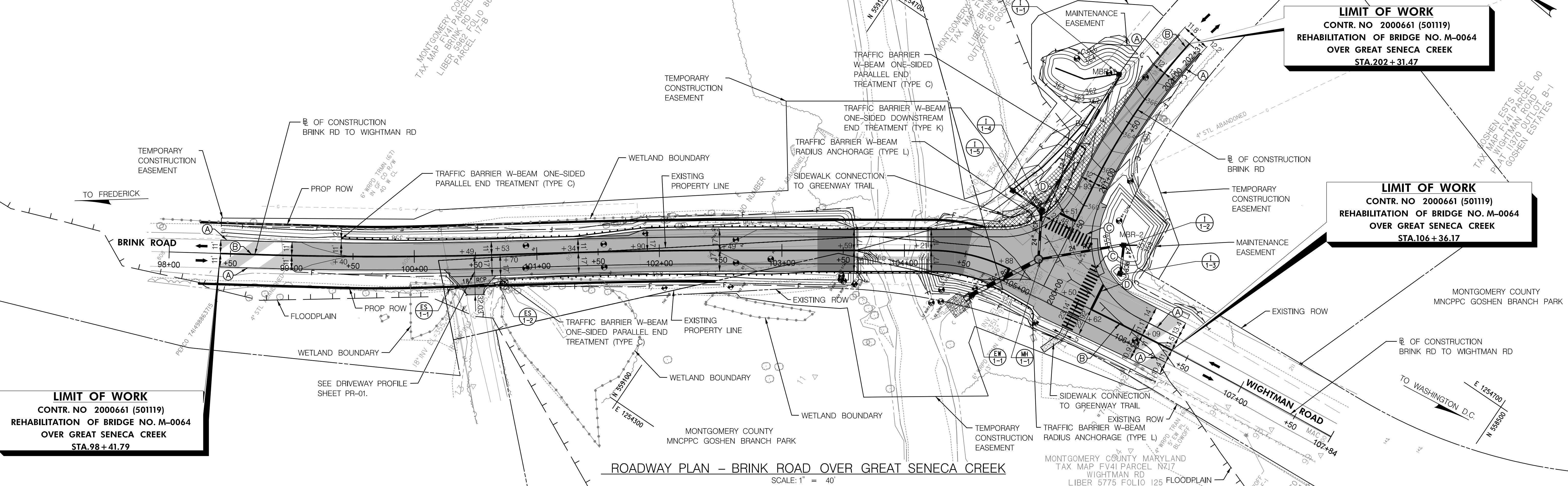
UNLESS OTHERWISE NOTED ON PLANS, ALL SOIL SURVEY BORINGS FOR ROADWAY CONSTRUCTION WERE LEFT OPEN FOR 24 HOURS WITH NO EXCESS MOISTURE OR FREE WATER ENCOUNTERED DURING TIME OF SOIL SURVEY (09/2000 TO 06/2002)

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK	
RECOMMENDED FOR APPROVAL				SYMBOLS AND ABBREVIATIONS	
Chief, Design Section		Date		SCALE : N.T.S.	
APPROVED				AB-01	
Chief, Division of Transportation Engineering		Date		Project No. : 501119	
Designed by : VTD		Drawn by : GMJ		Checked by :	
NO.	REVISION	DATE	BY	2 of 28	

- MARKING DETAILS:**
- Ⓐ 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS LINES - SOLID
 - Ⓑ 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS LINES - DOUBLE SOLID
 - Ⓒ 16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS LINES - SOLID
 - Ⓓ 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS LINES - SOLID

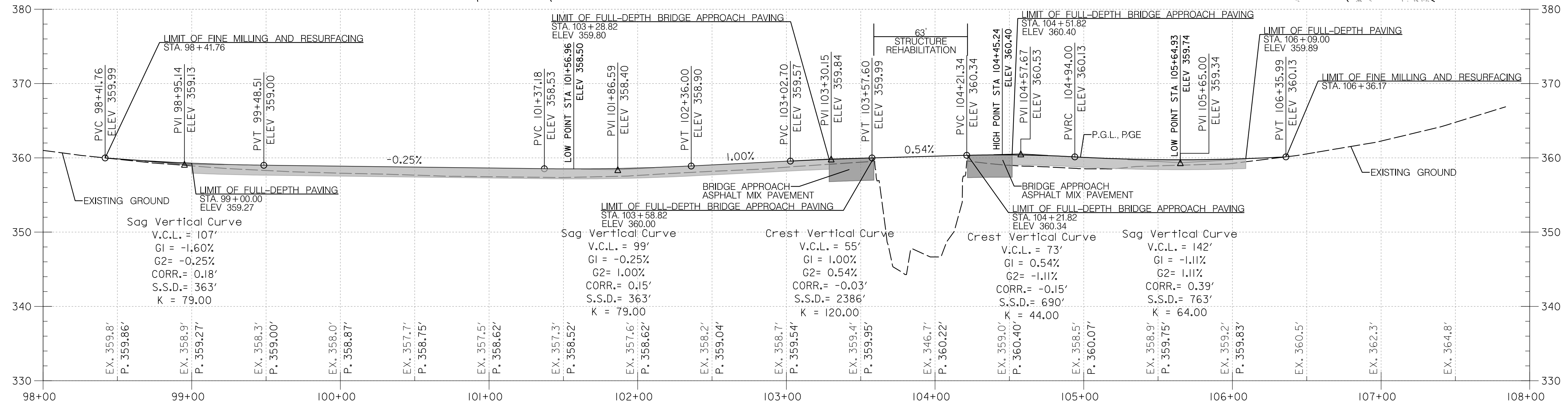


LIMIT OF WORK
 CONTR. NO 2000661 (501119)
 REHABILITATION OF BRIDGE NO. M-0064
 OVER GREAT SENECA CREEK
 STA. 202+31.47

LIMIT OF WORK
 CONTR. NO 2000661 (501119)
 REHABILITATION OF BRIDGE NO. M-0064
 OVER GREAT SENECA CREEK
 STA. 106+36.17

LIMIT OF WORK
 CONTR. NO 2000661 (501119)
 REHABILITATION OF BRIDGE NO. M-0064
 OVER GREAT SENECA CREEK
 STA. 98+41.79

ROADWAY PLAN - BRINK ROAD OVER GREAT SENECA CREEK
 SCALE: 1" = 40'



ROADWAY PROFILE - BRINK ROAD TO WIGHTMAN ROAD
 SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 8'

- LEGEND**
- FINE MILLING/OVERLAY
 - FULL DEPTH BRIDGE APPROACH PAVING
 - FULL DEPTH PAVING
 - PAVEMENT TO BE REMOVED
 - TRAFFIC BARRIER W BEAM

- NOTES:**
1. SEE SHEET PR-01 FOR BRINK RD AND DRIVEWAY PROFILES.
 2. EXISTING STOP SIGNS, TRAIL SIGNS, OR OTHER SIGNS SHALL BE RELOCATED AS NEEDED.

**FOUNDATION REVIEW
 NOT FOR CONSTRUCTION**



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: JSK	Drawn by: JSK	Checked by: TQD	
NO.	REVISION	DATE	BY

**REHABILITATION OF BRIDGE
 NO. M-0064 ON BRINK ROAD
 OVER GREAT SENECA CREEK**

ROADWAY PLAN SHEET
 SCALE: 1" = 40'
 Project No.: 501119
 PS-01

NOTES REFERENCED FROM:
MARYLAND DEPARTMENT OF THE ENVIRONMENT, 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, DECEMBER 2011.

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION
USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION.

PURPOSE
TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL.

CONDITIONS WHERE PRACTICE APPLIES
ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS. THIS SPECIFICATION IS DIVIDED INTO SECTIONS ON INCREMENTAL STABILIZATION; SOIL PREPARATION, SOIL AMENDMENTS AND TOPSOILING; SEEDING AND MULCHING; TEMPORARY STABILIZATION; AND PERMANENT STABILIZATION.

EFFECTS ON WATER QUALITY AND QUANTITY
STABILIZATION PRACTICES ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUNOFF TO DOWNSTREAM AREAS.

PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION, EVAPORATION, TRANSPIRATION, PERCOLATION, AND GROUNDWATER RECHARGE. OVER TIME, VEGETATION WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSEQUENT PLANT GROWTH.

VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT GROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITHIN THE ROOT ZONE.

SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING, AND VEGETATIVE ESTABLISHMENT.

ADEQUATE VEGETATIVE ESTABLISHMENT
INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON.

1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95 PERCENT GROUND COVER.
2. IF AN AREA HAS LESS THAN 40 PERCENT GROUND COVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
3. IF AN AREA HAS BETWEEN 40 AND 94 PERCENT GROUND COVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.
4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

B. INCREMENTAL STABILIZATION - FILL SLOPES

1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.
3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA.
 - b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
 - c. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.
 - d. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.
 - e. PLACE FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDBED AREAS AS NECESSARY.

NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

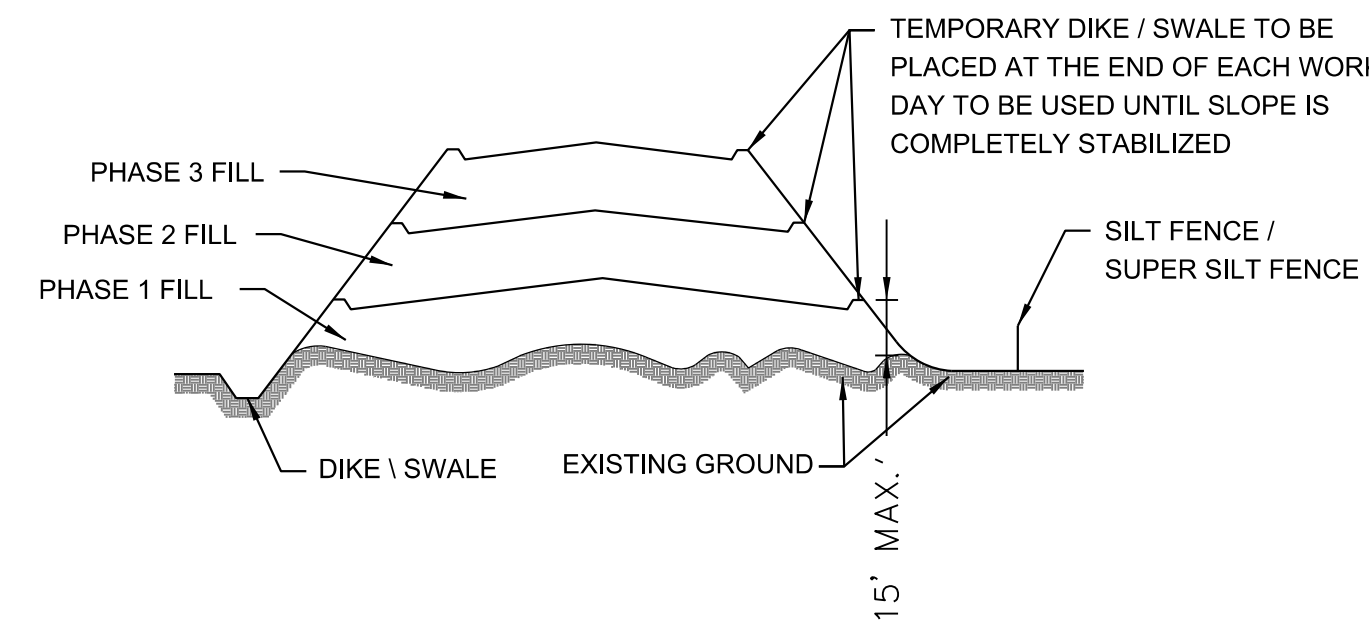


FIGURE B.2: INCREMENTAL STABILIZATION - FILL

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES
WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

CRITERIA

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION
 - a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE
 - b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
 - c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
2. PERMANENT STABILIZATION
 - a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - i. SOIL PH BETWEEN 6.0 AND 7.0.
 - ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.

- b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ONSITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
 - c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
 - d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
 - e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.
- B. TOPSOILING**

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
 - a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.
 - b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
6. TOPSOIL APPLICATION
 - a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
 - b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

DEFINITION
ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES.

PURPOSE
TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK PROGRESSES.

CONDITIONS WHERE PRACTICE APPLIES
ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT. THIS PRACTICE ALSO APPLIES TO STOCKPILES.

CRITERIA

A. INCREMENTAL STABILIZATION - CUT SLOPES

1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.
2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.1):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
 - b. PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND STABILIZE.
 - c. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.
 - d. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDBED AREAS AS NECESSARY.

NOTE: ONCE EXCAVATION HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

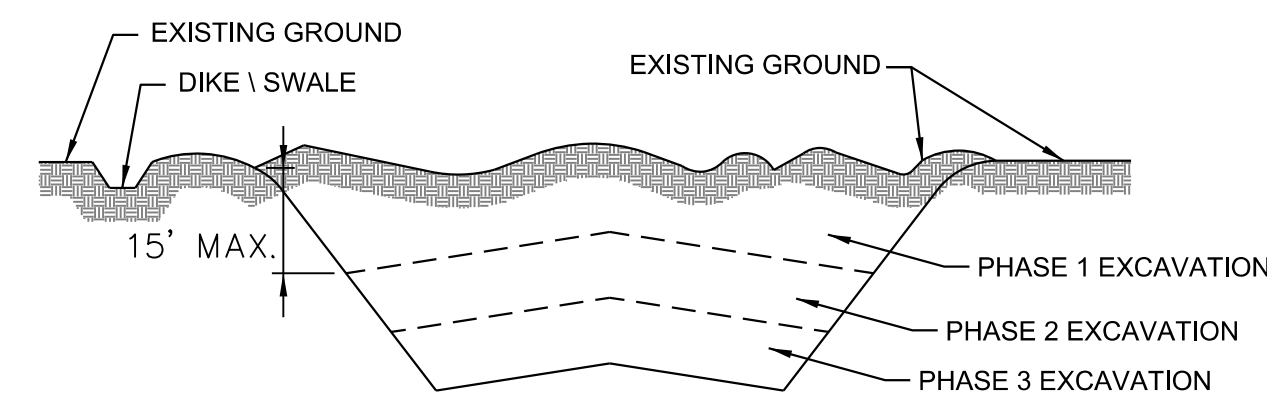


FIGURE B.1: INCREMENTAL STABILIZATION - CUT

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: _____	Drawn by: _____	Checked by: _____	
NO.	REVISION	DATE	BY

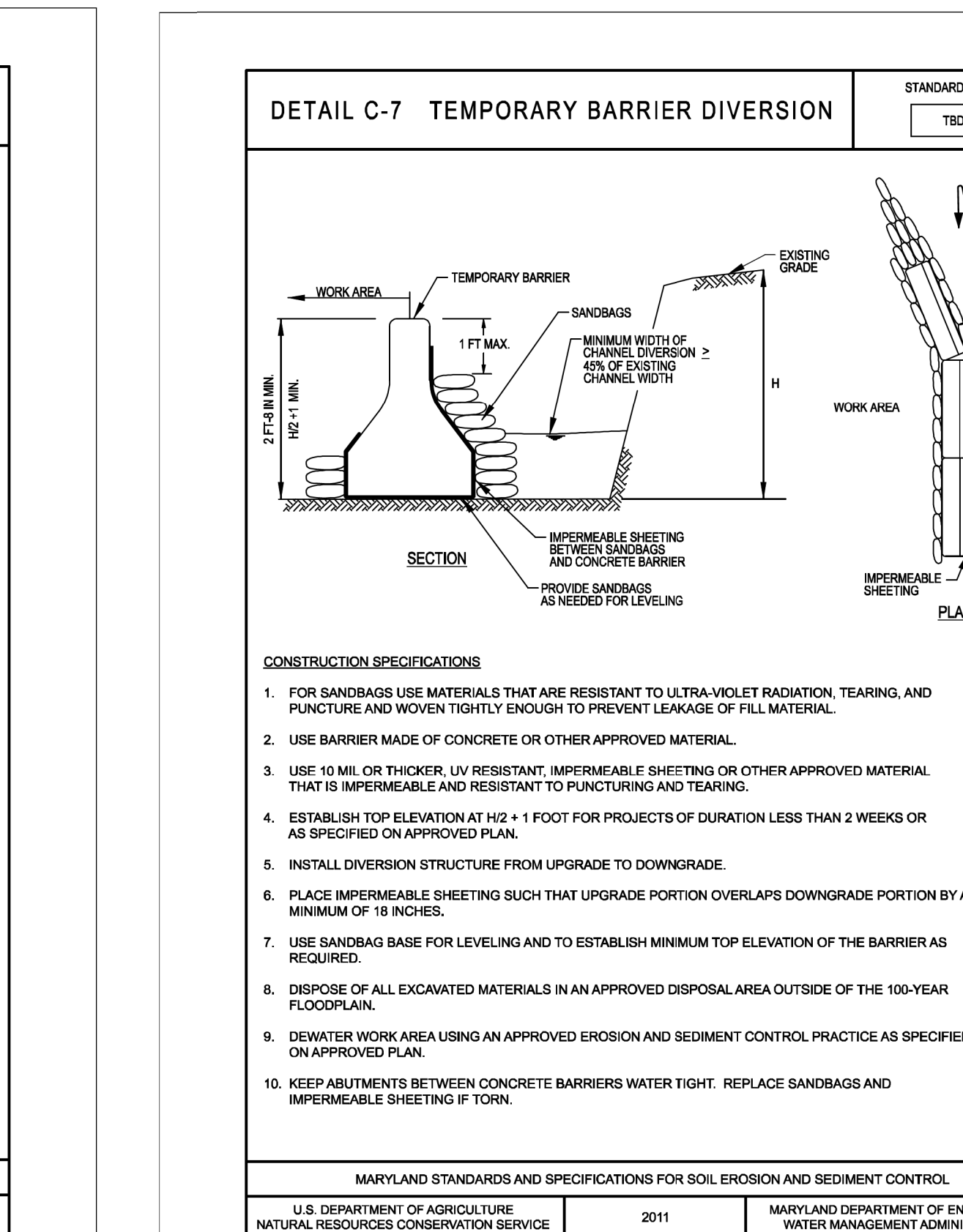
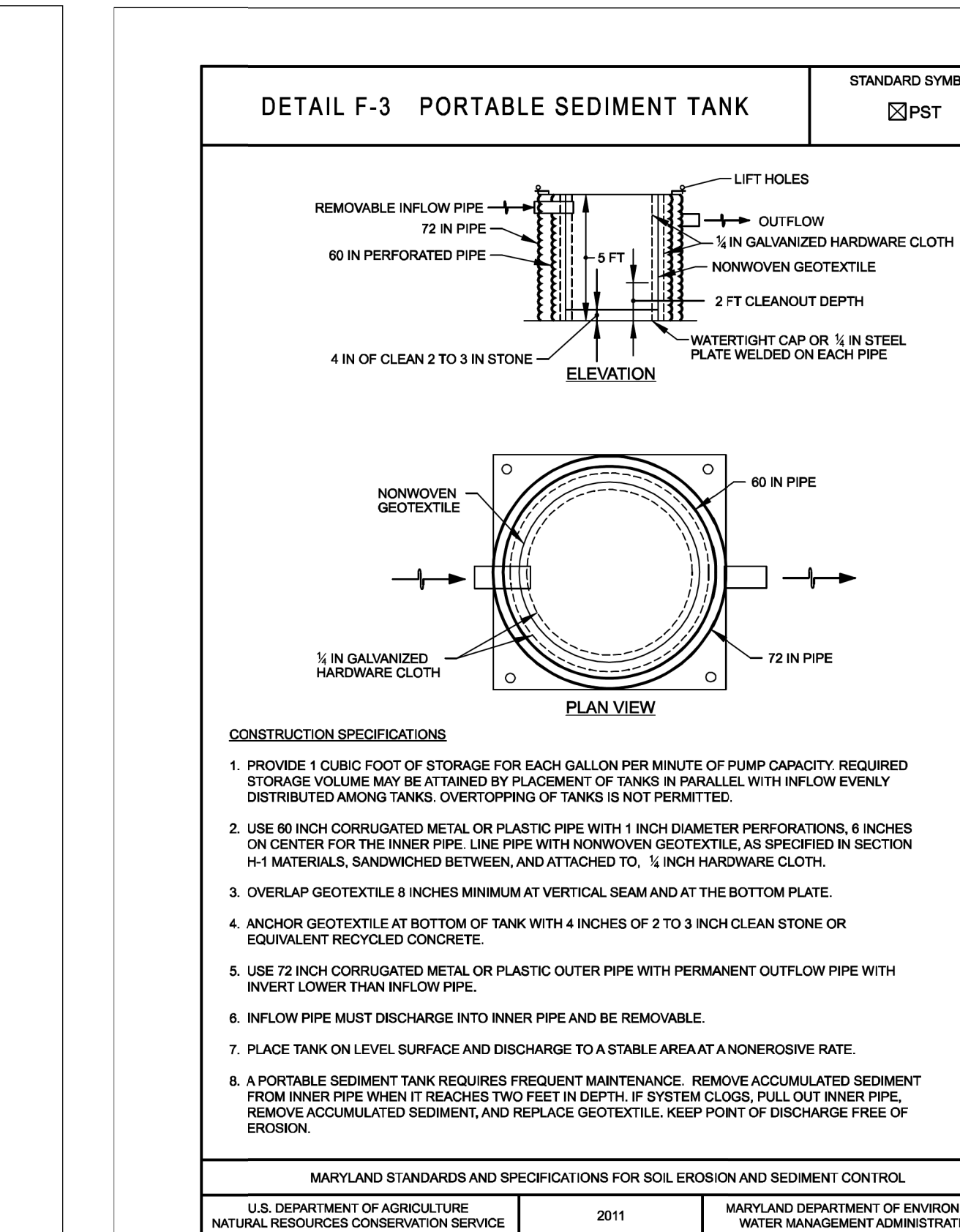
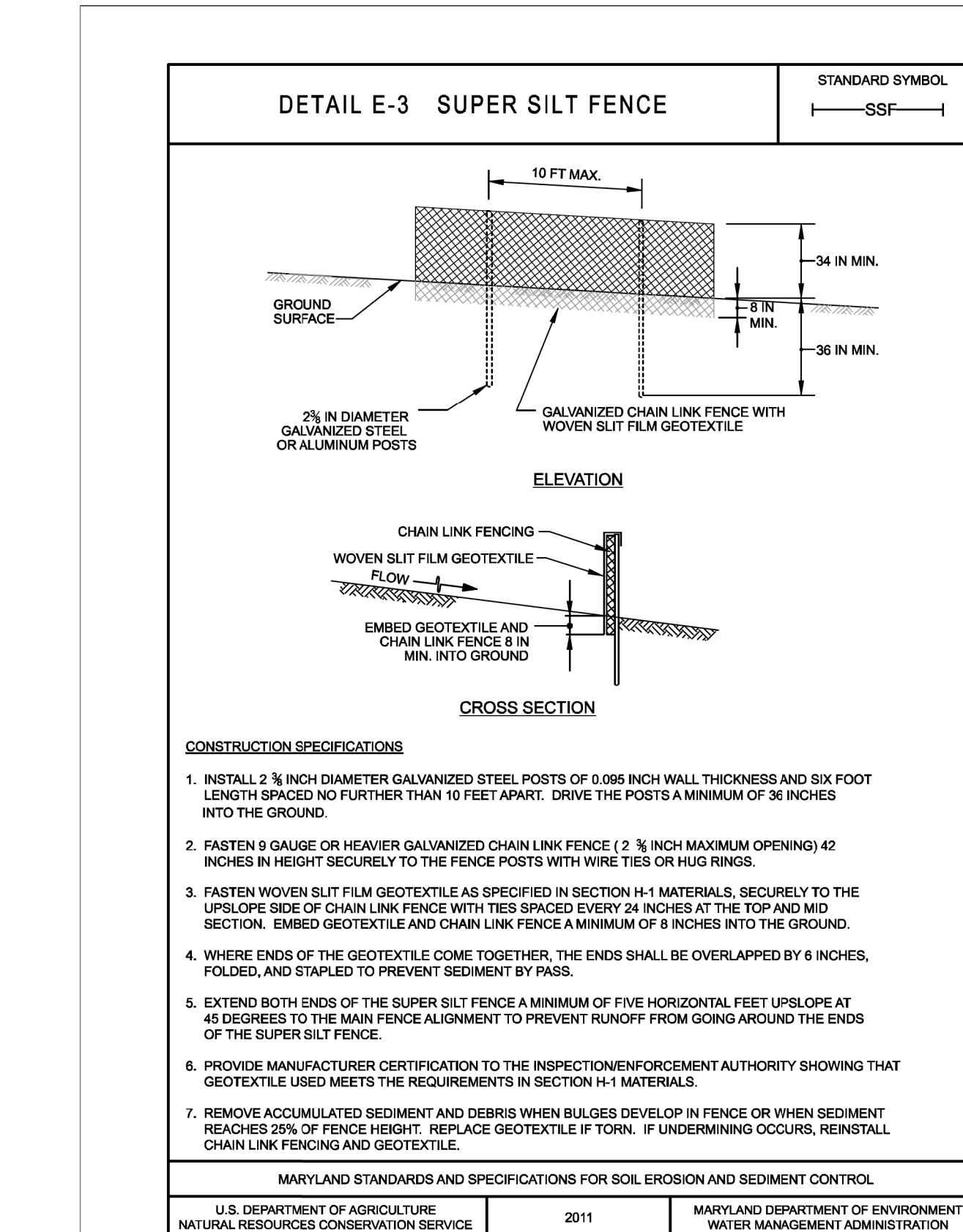
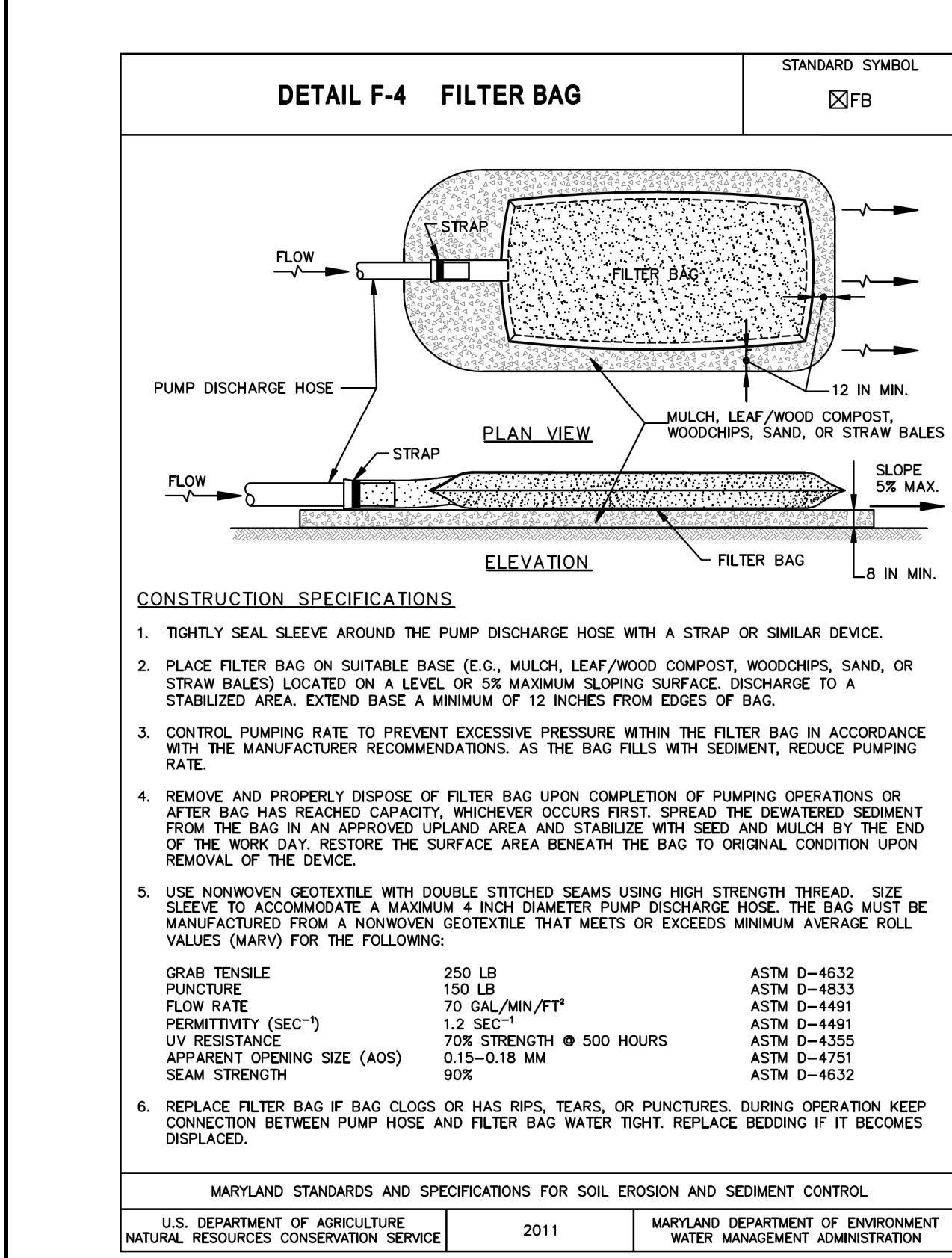
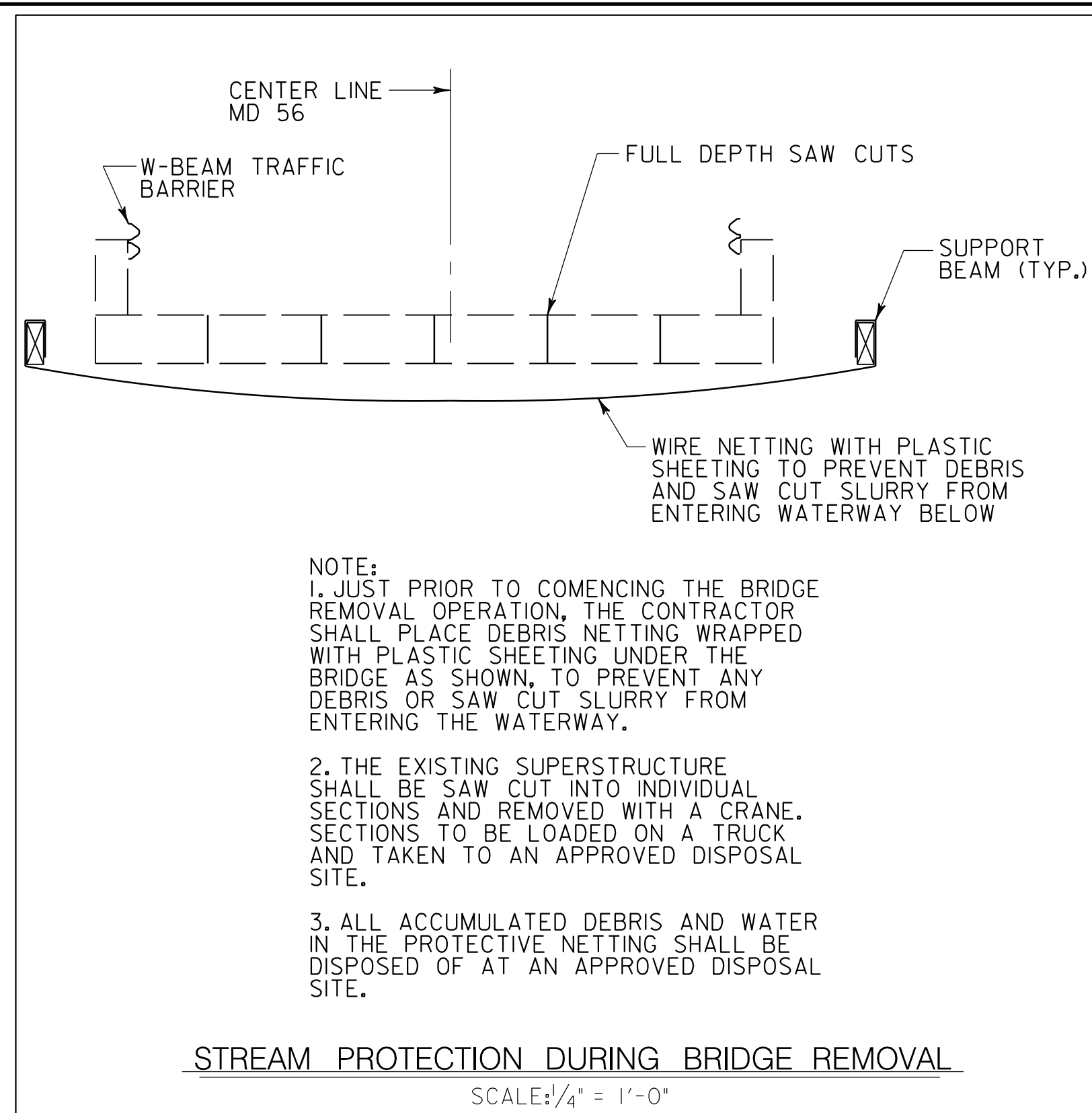
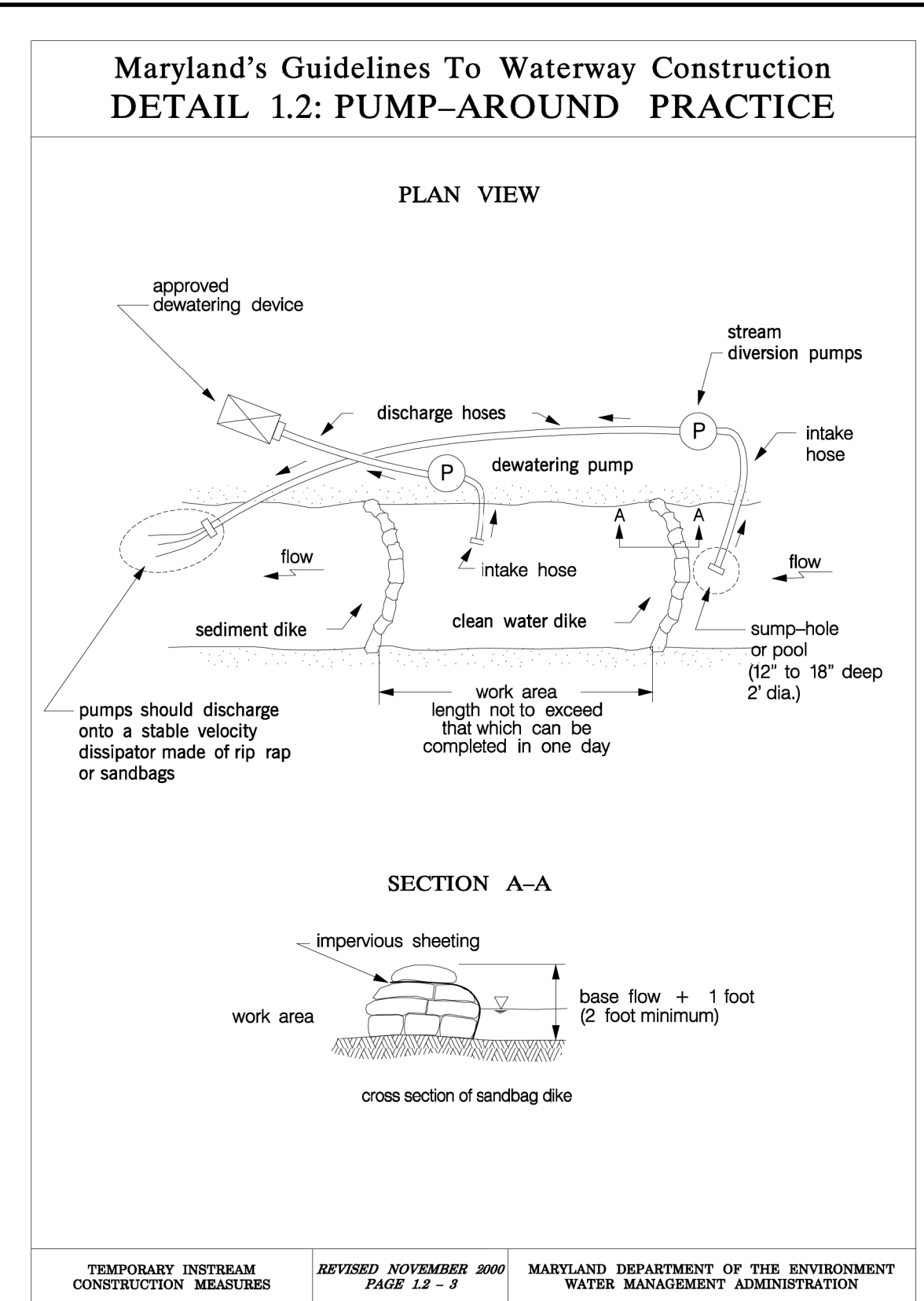
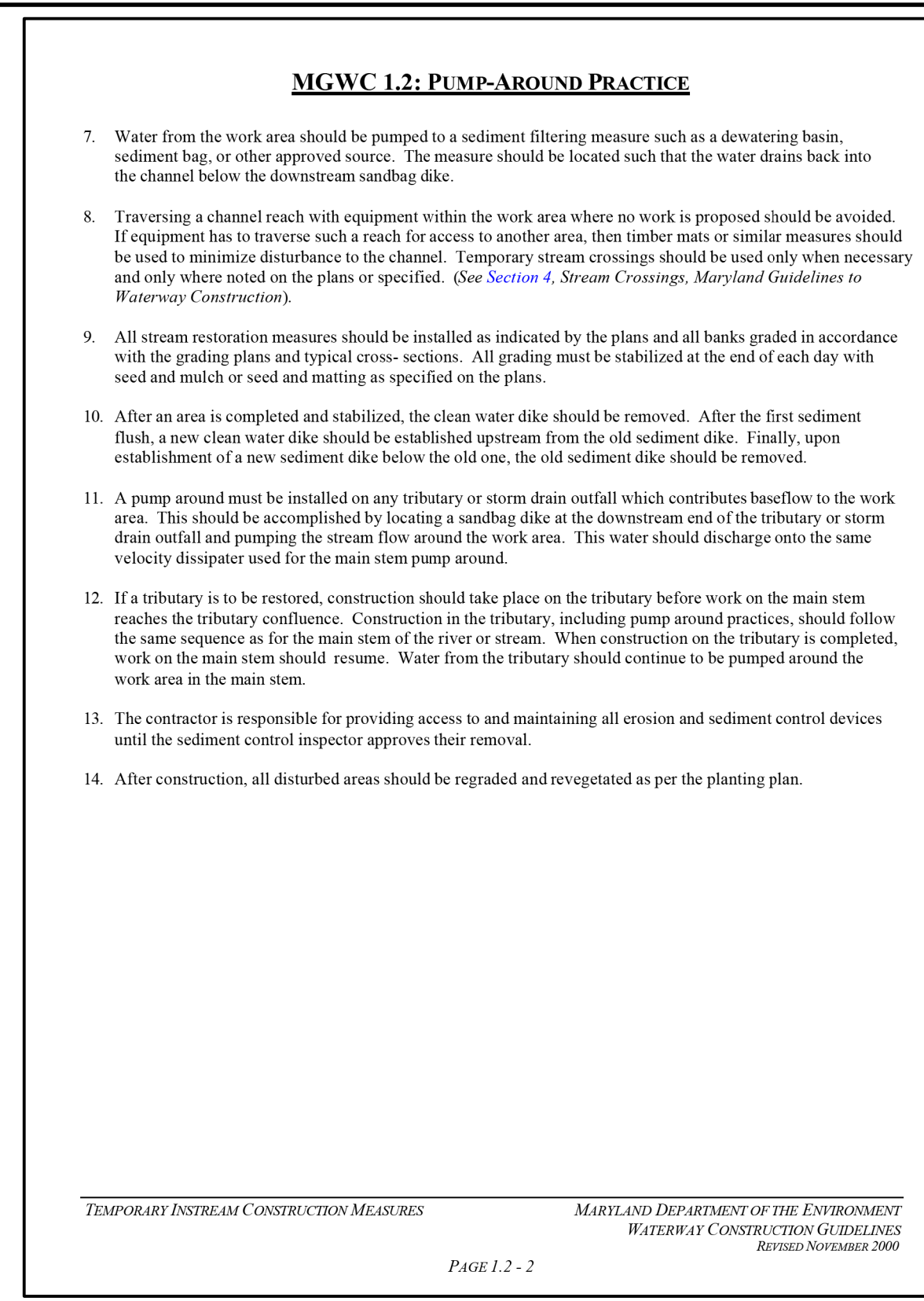
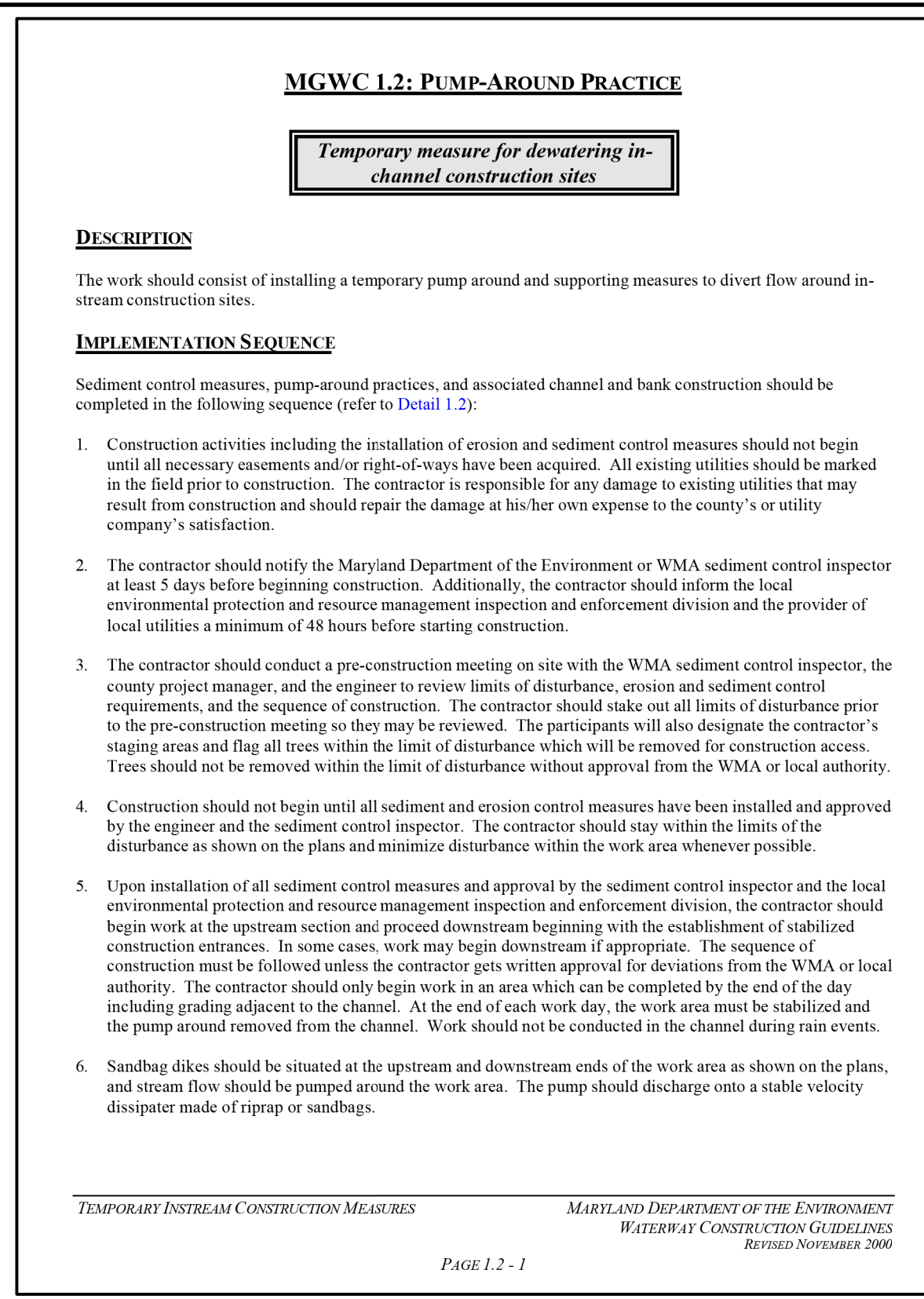
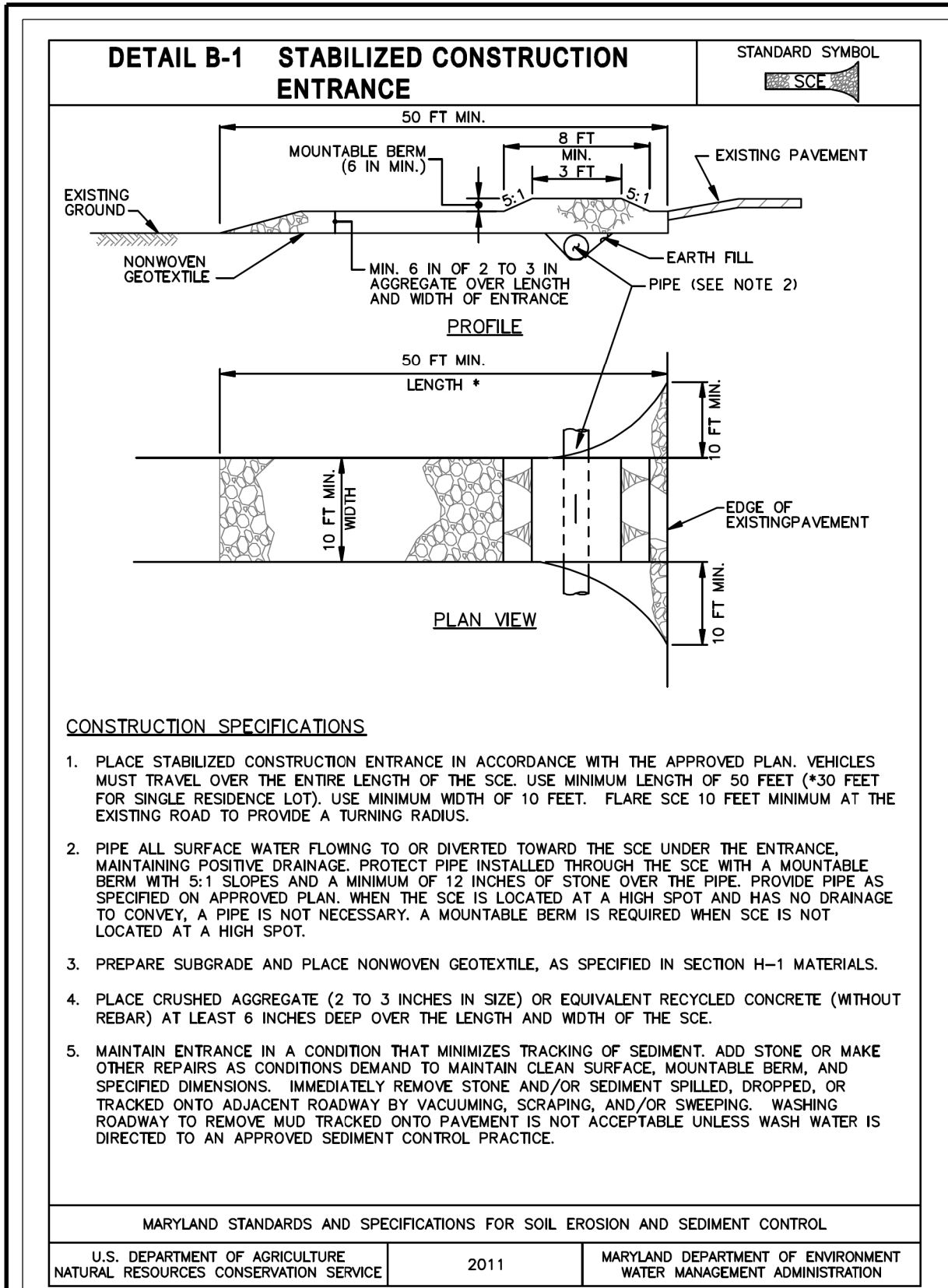
**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

EROSION & SEDIMENT CONTROL NOTES

SCALE : NTS

Project No. : 2000661 (501119) 12 of 28

MCDPS APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
SM FILE # _____	
Sediment Control Technical Requirements:	
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT # _____	
NOTE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.	
THIS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	



MCDPS APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
SM FILE #	
Sediment Control Technical Requirements:	
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT #	
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

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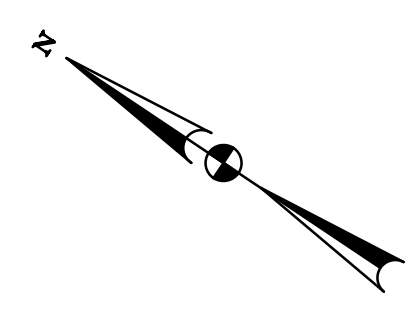
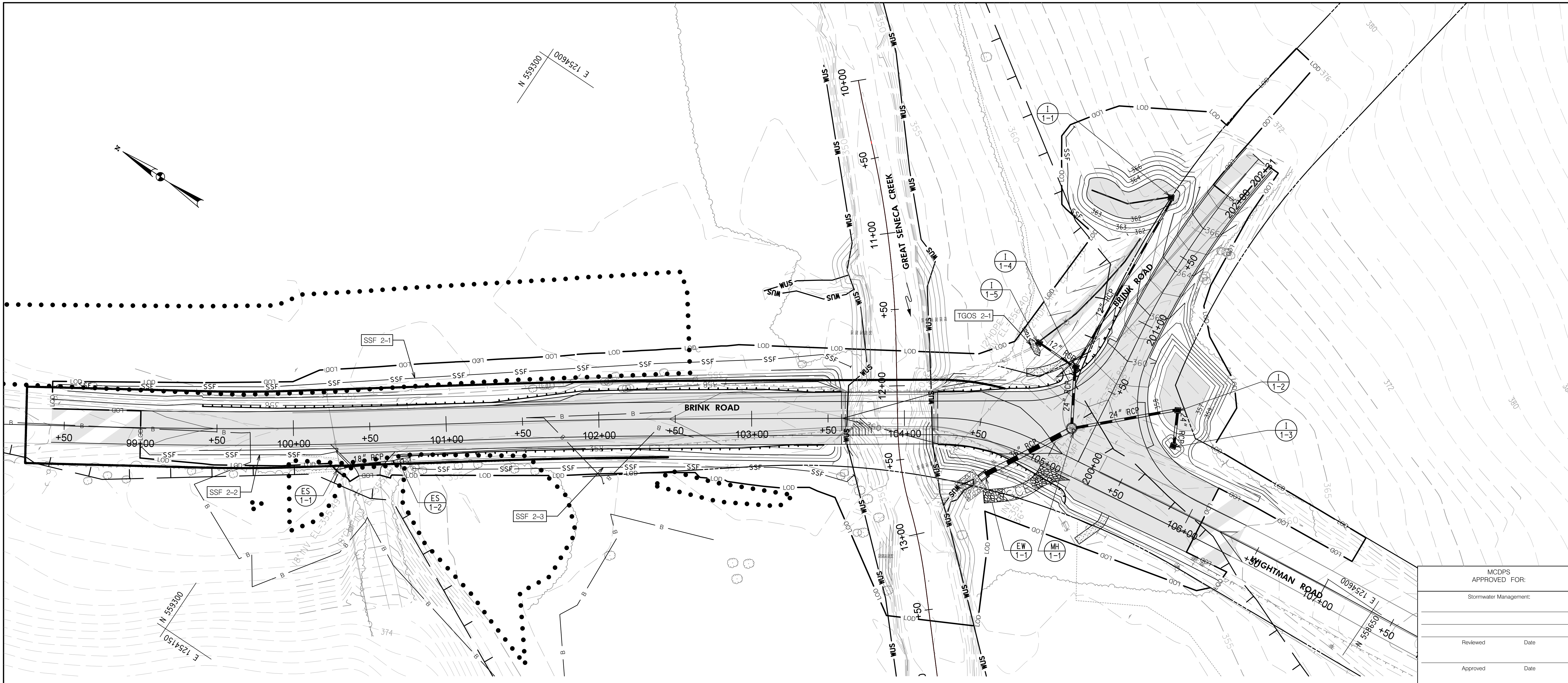
NMP ENGINEERING CONSULTANTS, INC. EXECUTIVE PLAZA II, SUITE 200 11350 MCCORMICK ROAD HUNT VALLEY, MD 21031 TEL (410) 771-8808 FAX (410) 771-8809

REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK

EROSION & SEDIMENT CONTROL DETAILS

SCALE : NTS

Project No. : 2000661 (501119) 15 of 28



LEGEND			
—	EXISTING ROW	— WUS —	WATERS OF THE US
—355—	EXISTING CONTOUR	•••••	WETLANDS
— — — —	EXISTING PIPE	—	100 YR FLOODPLAIN
— B —	WETLAND BUFFER		
— LOD —	LIMIT OF DISTURBANCE		

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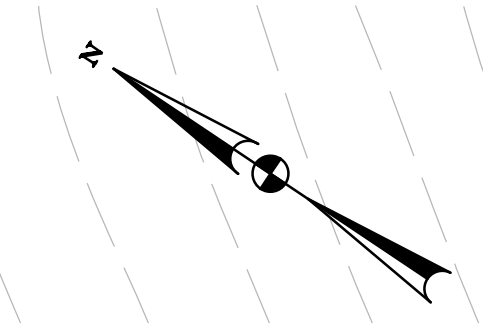
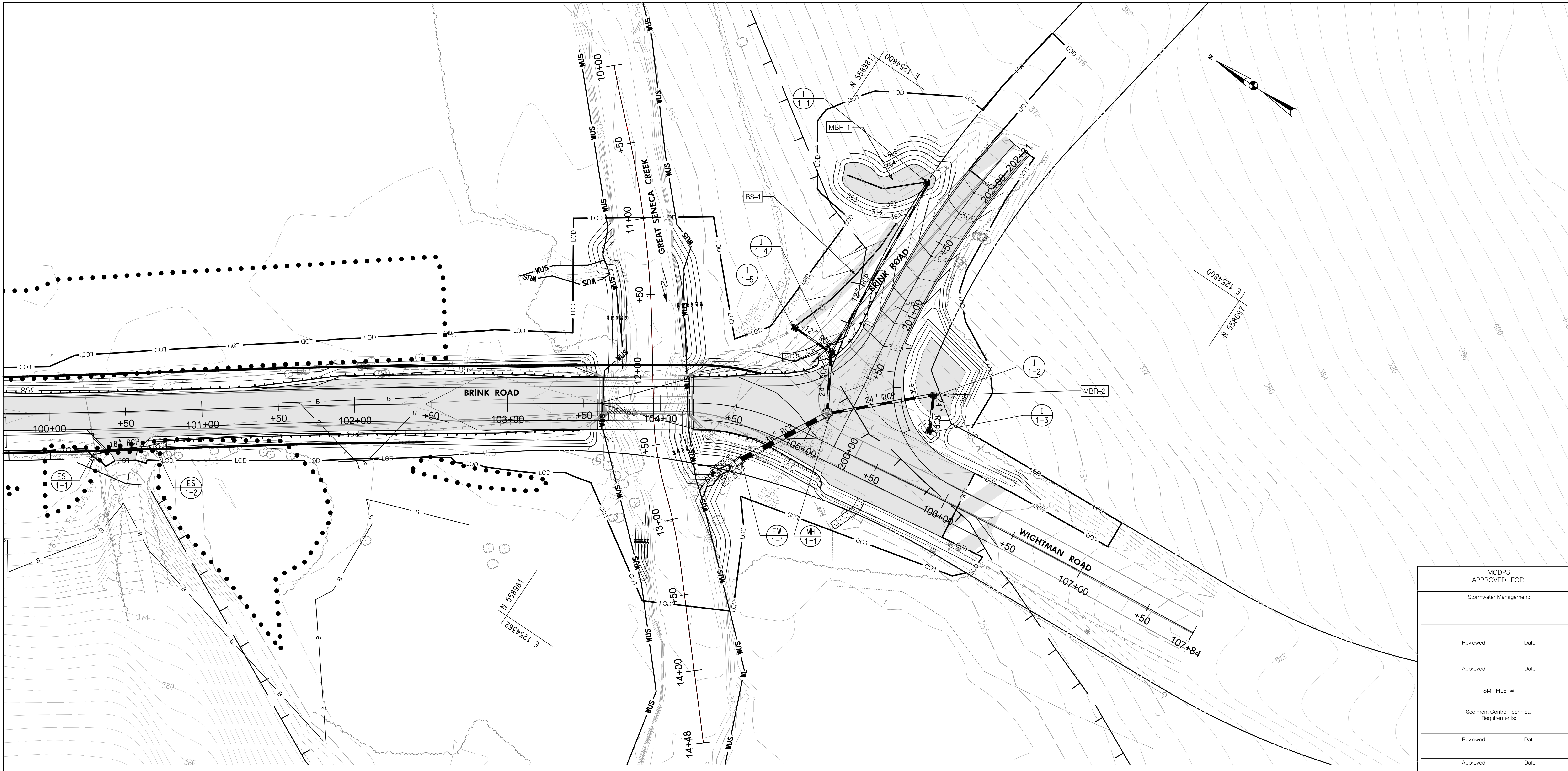
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: _____	Drawn by: _____	Checked by: _____	

REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK
EROSION & SEDIMENT CONTROL PLAN STAGE 2

SCALE : NTS

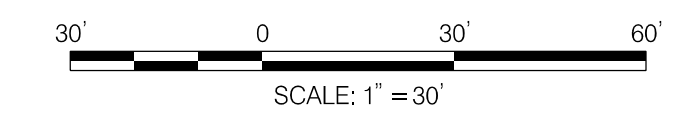
Project No. : 2000661 (501119) _____ 17 of 28

MCDPS APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
SM FILE #	
Sediment Control Technical Requirements:	
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT #	
NOTE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.	
THIS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	



LEGEND			
	EXISTING ROW		FULL DEPTH PAVEMENT
	EXISTING CONTOUR		RE-SURFACING
	SWM FOOTPRINT		PAVEMENT REMOVAL
	EXISTING PIPE		WATERS OF THE US
	WETLAND BUFFER		WETLANDS
	LIMIT OF DISTURBANCE		100 YR FLOODPLAIN

MCDPS APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
SM FILE #	
Sediment Control Technical Requirements:	
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT #	
NOTE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.	
THIS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	



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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Transportation Engineering		Date	
Designed by: MKK	Drawn by: MKK	Checked by: NMP	

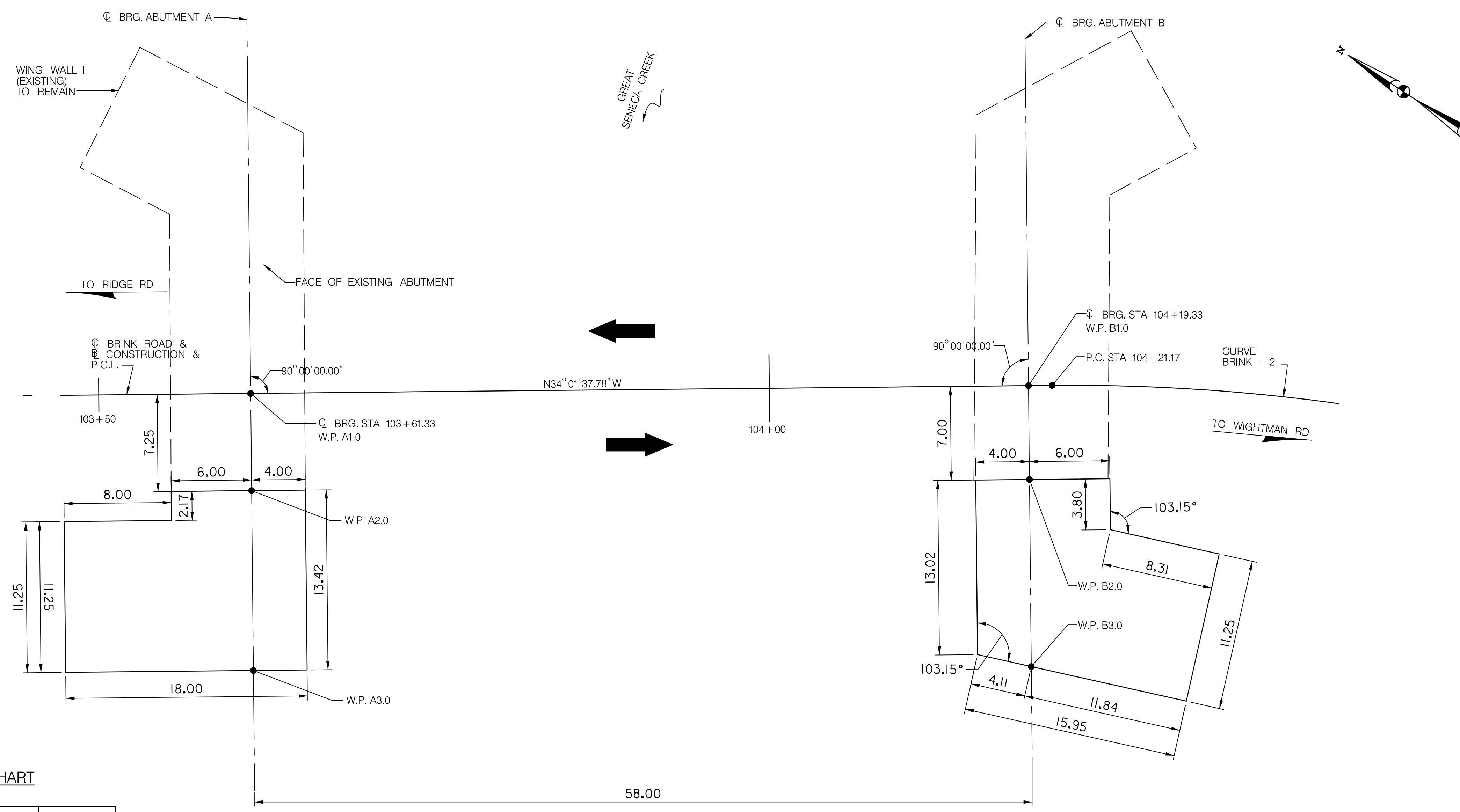
REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK

STORMWATER CONCEPT PLAN

SCALE : 1" = 30'

Project No. : 2000661 (501119) 18 of 28

SW-01



WORKING POINT LOCATION CHART

WORKING POINT	STATION	OFFSET (FT)	NORTHING	EASTING
A1.0	103+61.33	0.00	1254511.84	559006.76
A2.0	103+61.33	7.25 RT	1254505.84	559002.70
A3.0	103+61.33	20.67 RT	1254494.72	558995.19
B1.0	104+19.33	0.00	1254544.30	558958.69
B2.0	104+19.33	7.00 RT	1254538.50	558954.77
B3.0	104+19.33	20.95 RT	1254526.93	558946.96

GEOMETRIC & FOOTING PLAN
SCALE: 1" = 5'-0"

- NOTES:
1. FOR REMOVAL OF EXISTING ABUTMENT PORTIONS, REFER TO S-03 & S-04.
 2. FOR ABUTMENT A PLAN AND ELEVATION, REFER TO S-05.
 3. FOR ABUTMENT B PLAN AND ELEVATION, REFER TO S-06.
 4. FOR WINGWALL II & IV ELEVATIONS, REFER TO S-08.
 5. AS-BUILT PLANS ARE NOT AVAILABLE FOR THE EXISTING BRIDGE.
 6. ALL FOOTING TURNS ARE 90.00 DEGREES UNLESS OTHERWISE NOTED.

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: VTD Drawn by: GMJ Checked by: _____

**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

GEOMETRIC & FOOTING PLAN

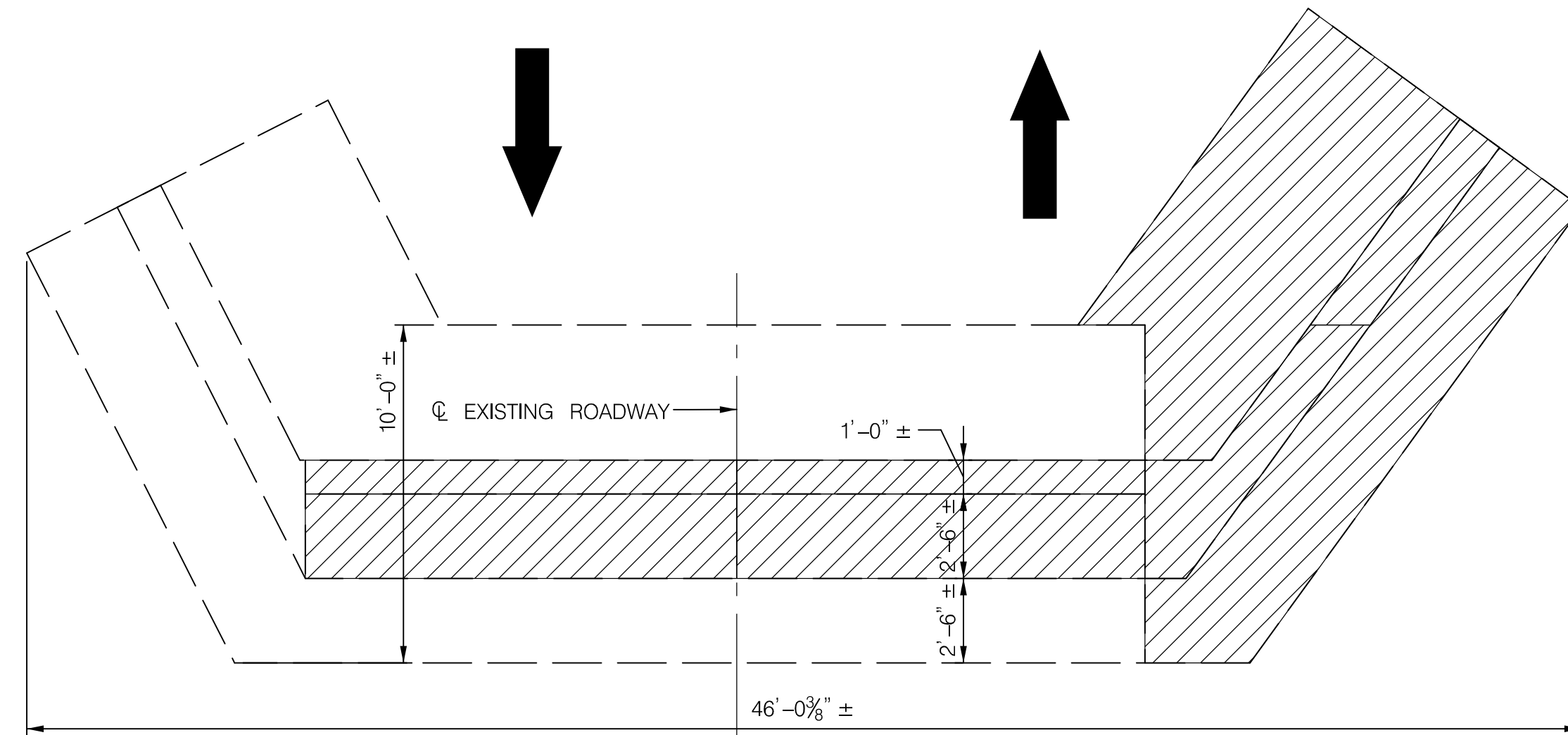
SCALE : AS SHOWN

Project No. : 501119 _____ 20 _____ of _____ 28 _____

S-02

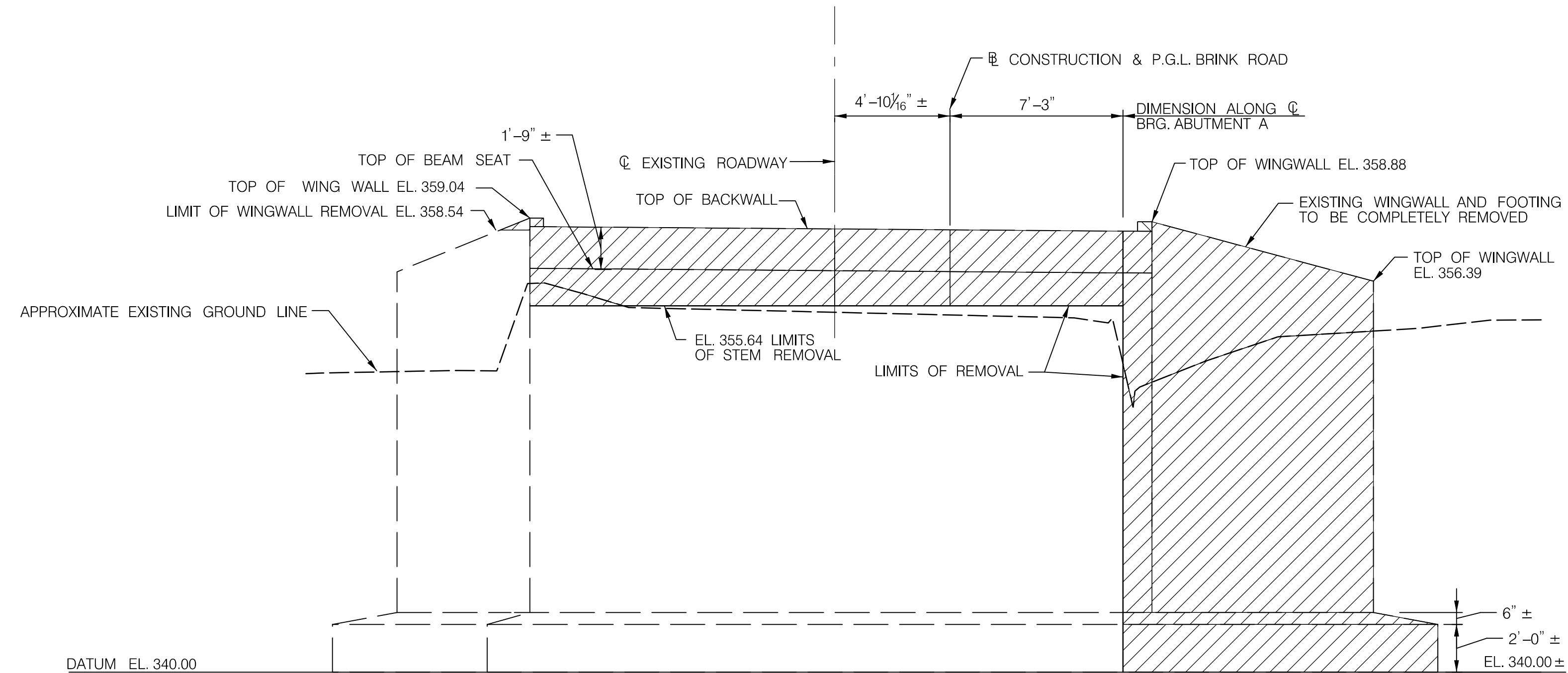
REMOVAL NOTES:

1. IN EXISTING ABUTMENT, EXISTING VERTICAL REINFORCEMENT IS TO BE INCORPORATED IN THE FINAL STRUCTURE AND SHALL BE STRAIGHTENED, CLEANED AND EPOXY COATED. CARE SHALL BE TAKEN NOT TO DAMAGE THESE BARS.
2. ANY EXISTING REINFORCING STEEL WHICH IS TO BE INCORPORATED INTO THE FINAL STRUCTURE:
 - A. AND IN THE OPINION OF THE ENGINEER HAS LOST 20% OR MORE OF ITS ORIGINAL CROSS SECTIONAL AREA SHALL BE CUT OUT. A NEW BAR OF THE SAME DIAMETER SHALL BE PROVIDED AND PLACED AS TO HAVE THE MINIMUM REQUIRED LAP AT THE END OF THE NEW BAR OR BE MODIFIED AS IN C BELOW.
 - B. WHERE THE REQUIRED LAP LENGTH IS AVAILABLE SHALL BE USED AS A DOWEL.
 - C. WHERE THE REQUIRED BAR LAP IS NOT AVAILABLE OR LIMITS OF CONCRETE REMOVAL TO ACHIEVE BAR LAP WOULD BE TOO GREAT, A WELDED OR APPROVED MECHANICAL SPLICE SHALL BE PROVIDED. SEE STANDARD DETAIL M(6.01)-75-12.
3. THE COST OF STRAIGHTENING, CLEANING AND EPOXY COATING REINFORCING STEEL SHALL BE INCLUDED IN THE PRICE BID ON THE SUBSTRUCTURE CONCRETE ITEM.
4. IF EXPECTED REINFORCING STEEL IS MISSING OR A PATTERN DIFFERING FROM THAT SHOWN ON THE PLANS IS UNCOVERED THEN THE ENGINEER SHALL BE NOTIFIED FOR EVALUATION.
5. WHERE THE REMOVAL WILL BE ON AN EXPOSED FACE IN THE FINAL STRUCTURE FIRST SAW CUT ONE INCH DEEP TO NEAT LINES IN CONCRETE SURFACE FORMED CONCRETE OR MORTAR ADJACENT TO EXISTING SO AS TO PRODUCE A SMOOTH SURFACE.



- EXISTING STRUCTURE NOTES:
1. NO AS-BUILT PLANS ARE AVAILABLE.
 2. THE EXISTING BRIDGE ABUTMENT GEOMETRICS, INCLUDING SIZE, SHAPE, AND FOOTING ELEVATION, WERE ESTIMATED FROM EXISTING DESIGN COMPUTATIONS AND SKETCHES DATED 9/1971 AND 11/1971 PROVIDED BY MONTGOMERY CO.
 3. IN-SITU FOOTING ELEVATIONS FOR THE EXISTING STRUCTURE MAY VARY FROM THE APPROXIMATE EXISTING FOOTING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.

ABUTMENT B - PLAN
SCALE: 1/4" = 1'-0"



ABUTMENT B - ELEVATION
SCALE: 1/4" = 1'-0"

 AREA TO BE REMOVED

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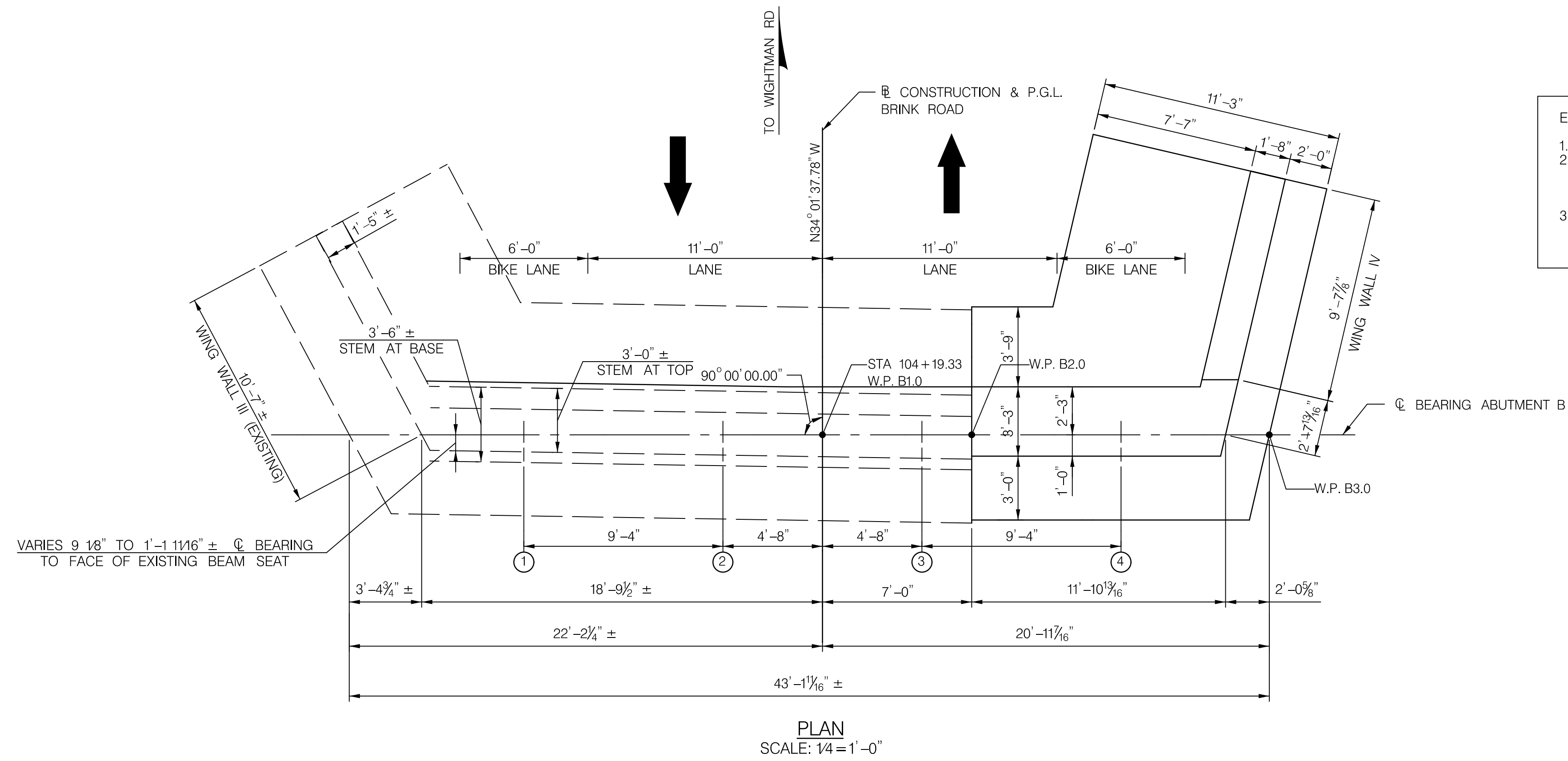
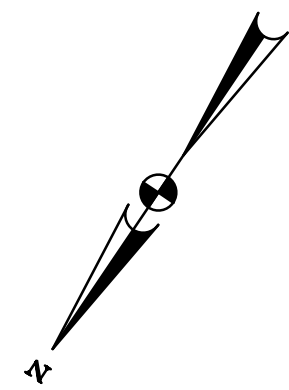


MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: VTD	Drawn by: GMJ	Checked by: _____	
NO.	REVISION	DATE	BY

REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK

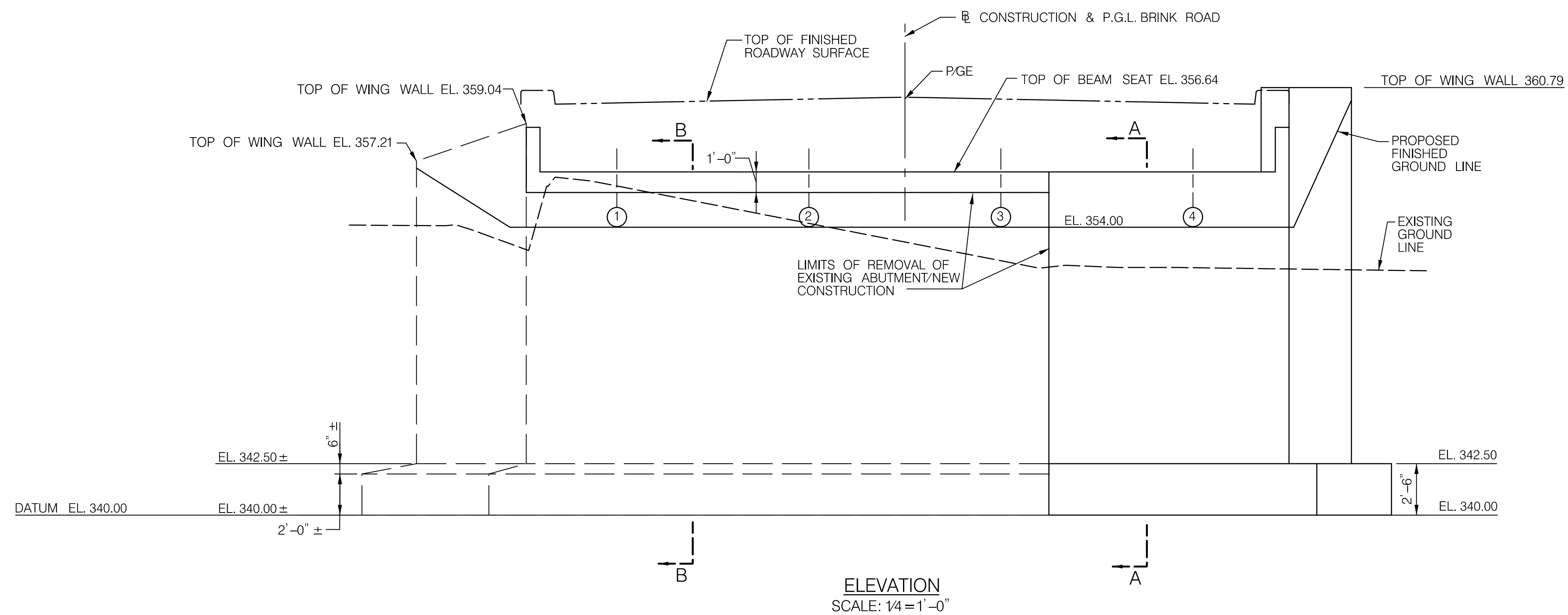
ABUTMENT B REMOVAL

SCALE : _____ S-04
Project No. : 501119 _____ 22 of 28 _____



EXISTING STRUCTURE NOTES:

1. NO AS-BUILT PLANS ARE AVAILABLE.
2. THE EXISTING BRIDGE ABUTMENT GEOMETRICS, INCLUDING SIZE, SHAPE, AND FOOTING ELEVATION, WERE ESTIMATED FROM EXISTING DESIGN COMPUTATIONS AND SKETCHES DATED 9/1971 AND 1/1971 PROVIDED BY MONTGOMERY CO. IN-SITU FOOTING ELEVATIONS FOR THE EXISTING STRUCTURE MAY VARY FROM THE APPROXIMATE EXISTING FOOTING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



NOTES:

1. FOR SECTION A-A & B-B, REFER TO S-07.
2. FOR WING ALL ELEVATIONS AND TYPICAL SECTION, REFER TO S-08.
3. AS-BUILT PLANS ARE NOT AVAILABLE FOR THE EXISTING BRIDGE.
4. THE EXISTING BOTTOM OF FOOTING ELEVATIONS AND ALL EXISTING FOOTING PLAN DIMENSIONS ARE ESTIMATED BASED ON DIMENSIONS FROM A TYPICAL ABUTMENT SECTION SHOWN ON THE EXISTING ABUTMENT CALCULATIONS PROVIDED BY MONTGOMERY COUNTY, MD. ANY VARIATION FOUND IN THE FIELD FROM THE ASSUMED EXISTING ABUTMENT DIMENSIONS WILL REQUIRE THE ABUTMENT DESIGN TO BE VERIFIED BY THE ENGINEER.
5. THE PROPOSED ABUTMENT FOOTING ELEVATIONS ARE DESIGNED TO MATCH THE EXISTING ABUTMENT FOOTING ELEVATIONS, WHICH ARE ESTIMATED BASED ON DIMENSIONS FROM A TYPICAL ABUTMENT SECTION SHOWN ON THE EXISTING ABUTMENT CALCULATIONS PROVIDED BY MONTGOMERY COUNTY, MD. ANY VARIATION FOUND IN THE FIELD FROM THE ASSUMED EXISTING FOOTING ELEVATIONS LARGER THAN 6" AND RESULTING IN A TALLER THAN ANTICIPATED STEM WILL REQUIRE THE ABUTMENT DESIGN TO BE VERIFIED BY THE ENGINEER.
6. AS-BUILT PLANS AND CALCULATIONS ARE NOT AVAILABLE FOR THE EXISTING WING WALLS. THE EXISTING WING ALL FOOTING PLAN DIMENSIONS SHOWN ARE ASSUMED TO MATCH THE EXISTING ABUTMENT TYPICAL SECTION FOOTING DIMENSIONS BASED ON DIMENSIONS FROM A TYPICAL ABUTMENT SECTION SHOWN ON THE EXISTING ABUTMENT CALCULATIONS PROVIDED BY MONTGOMERY COUNTY, MD.
7. PROPOSED ABUTMENT WIDENING TO BE ANCHORED TO EXISTING ABUTMENTS WITH HORIZONTAL REBAR DOWELS DRILLED AND GROUTED INTO EXISTING ABUTMENTS.

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: VJD	Drawn by: GMJ	Checked by: _____	

**REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK**

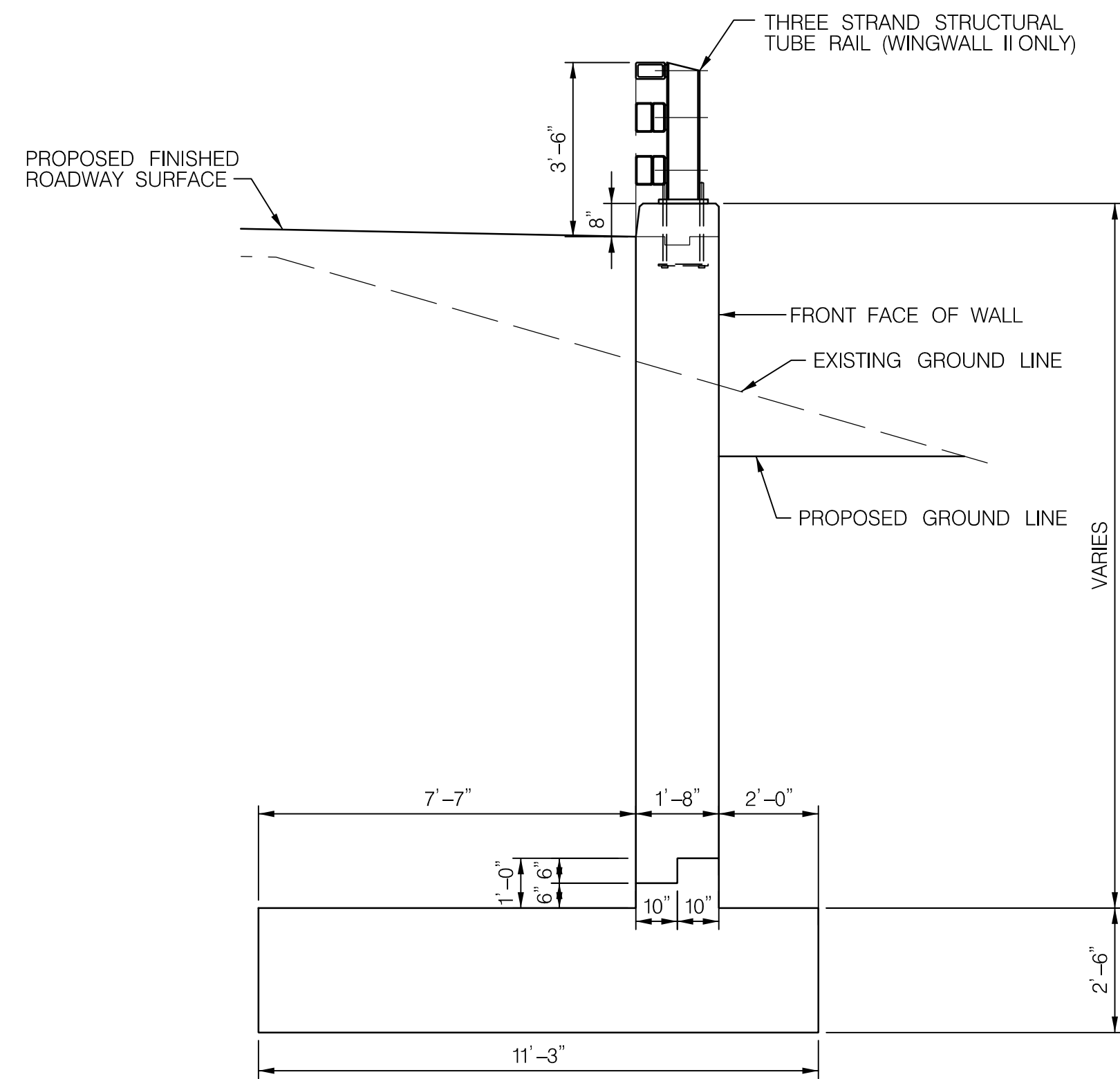
ABUTMENT B PLAN AND ELEVATION

SCALE : _____

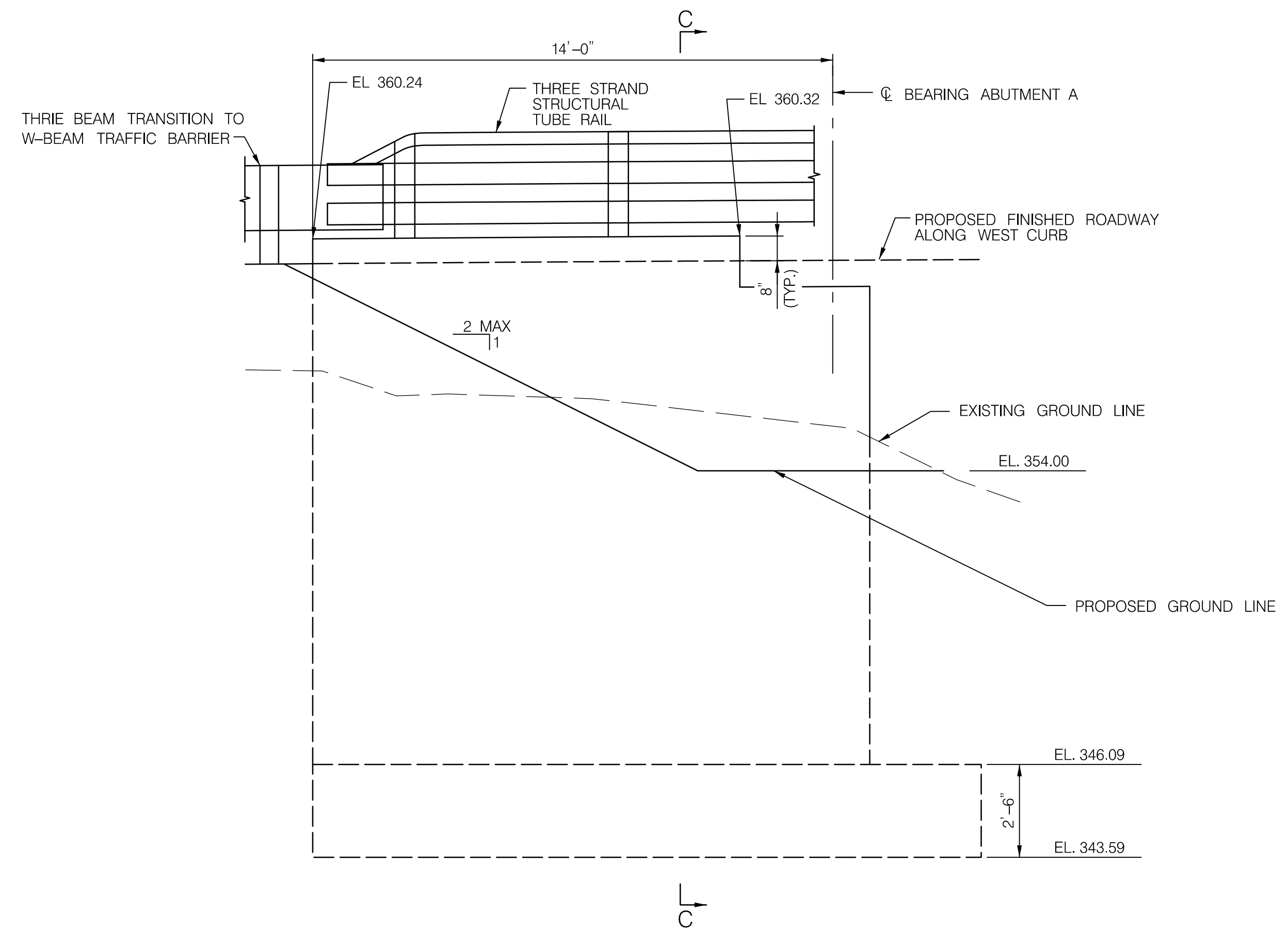
Project No. : 501119 _____ 24 of 28

S-06

2/1/2024 10:30 AM

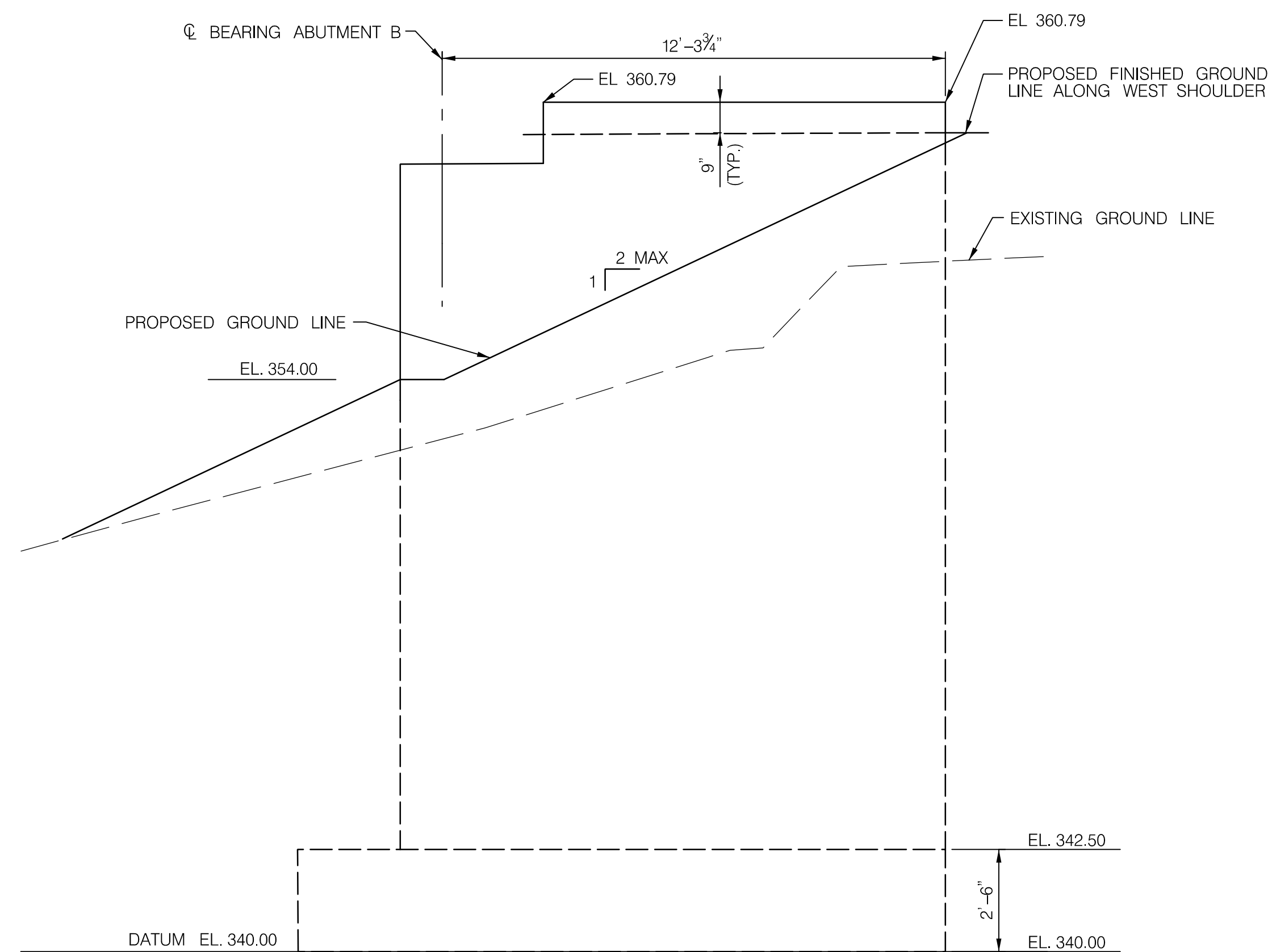


SECTION C-C: WINGWALL TYPICAL SECTION
SCALE: 3/8" = 1'-0"



DATUM EL. 340.00

WINGWALL II ELEVATION
SCALE: 3/8" = 1'-0"

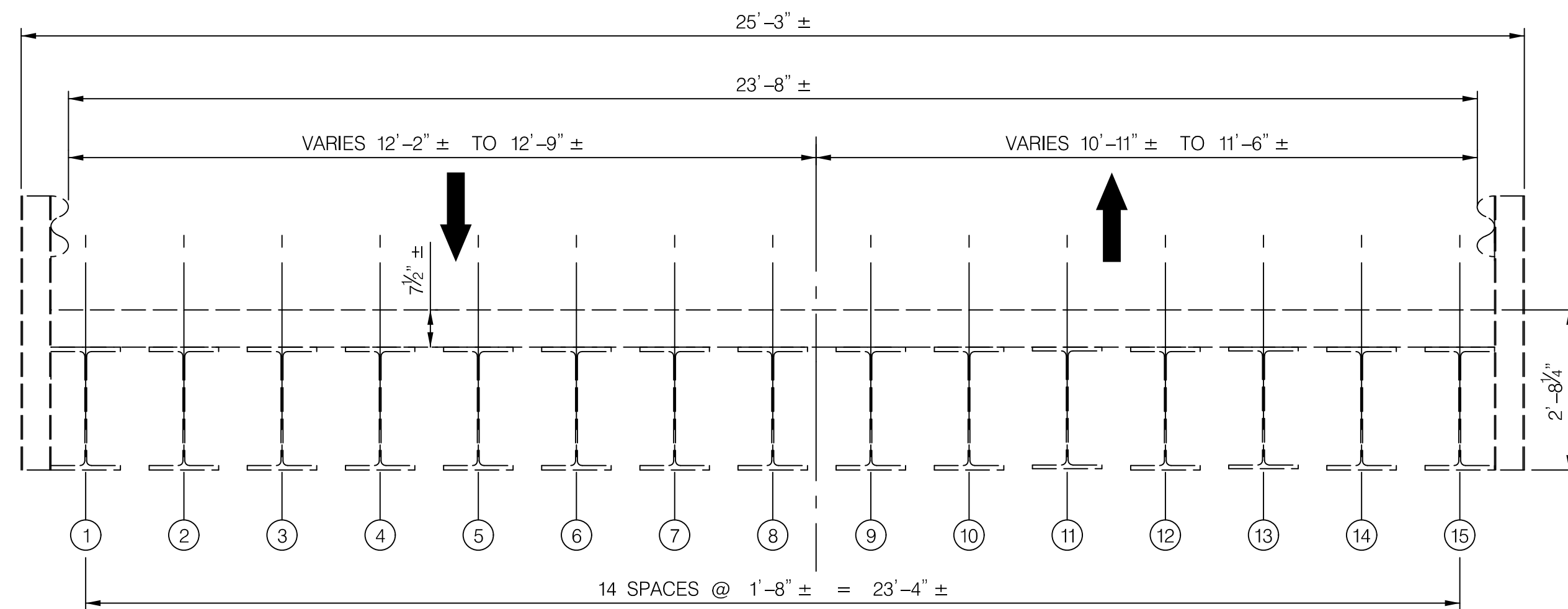


WINGWALL IV ELEVATION
SCALE: 3/8" = 1'-0"

FOUNDATION REVIEW
NOT FOR CONSTRUCTION

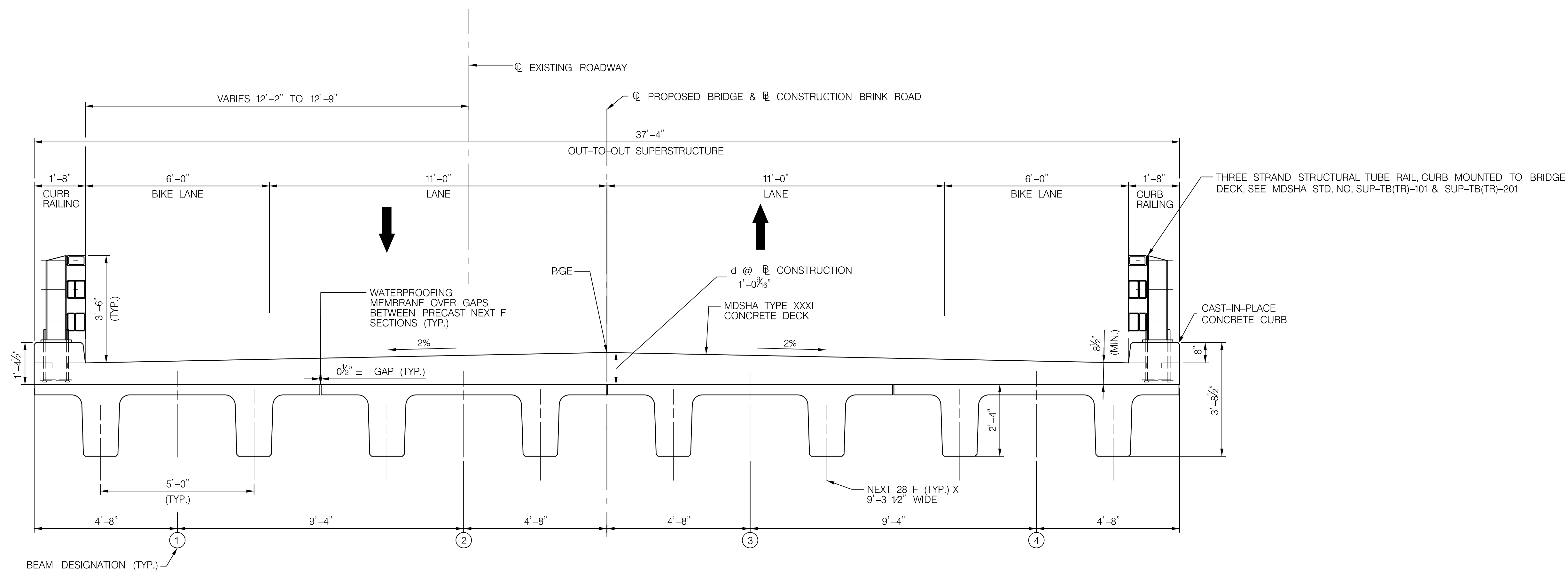


MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				REHABILITATION OF BRIDGE NO. M-0064 ON BRINK ROAD OVER GREAT SENECA CREEK	
RECOMMENDED FOR APPROVAL Chief, Design Section _____ Date _____ APPROVED				WING WALL ELEVATION AND SECTIONS SCALE : 3/4" = 1'-0"	
Chief, Division of Transportation Engineering _____ Date _____ Designed by: VTD Drawn by: GMJ Checked by: _____				S-08 Project No. : 501119 _____ 26 of 28	
NO.	REVISION	DATE	BY		



EXISTING BRIDGE TYPICAL SECTION
SCALE: 12" = 1'-0"

- EXISTING STRUCTURE NOTES:
1. NO AS-BUILT PLANS ARE AVAILABLE.
 2. THE EXISTING BRIDGE SUPERSTRUCTURE TYPICAL SECTION WAS ESTIMATED FROM THE 2013 INSPECTION REPORT BY THE WILSON T BALLARD COMPANY PROVIDED BY MONTGOMERY CO.



PROPOSED TYPICAL SECTION
SCALE: 12" = 1'-0"

FOUNDATION REVIEW
NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: VTD	Drawn by: GMJ	Checked by:	_____
NO.	REVISION	DATE	BY

REHABILITATION OF BRIDGE
NO. M-0064 ON BRINK ROAD
OVER GREAT SENECA CREEK

TYPICAL SECTION

SCALE : AS SHOWN

Project No. : 501119

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