

WASHINGTON COUNTY, MARYLAND

DIVISION OF ENGINEERING



INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS STOTLER RD. & HALFWAY BLVD.

PROJECT NO. 16-045
CONTRACT NO. TS-SH-045-16

ENGINEER / ARCHITECT DESIGN CERTIFICATION
I HEREBY CERTIFY THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01.07, AND MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

Parash Mohn 39252 10.7.22
SIGNATURE REGISTRATION NUMBER DATE

SEAL:

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. 39252 EXPIRATION DATE: 6.21.24

THE STORMWATER MANAGEMENT PLAN SHOWN HEREON IS APPROVED.

Scott Hobbs 10/7/22
SCOTT HOBBS, P.E.
DIRECTOR OF ENGINEERING
FOR WASHINGTON COUNTY, MD DATE

APPROVED FOR CONSTRUCTION

Scott Hobbs 10/7/22
SCOTT HOBBS, P.E.
DIRECTOR OF ENGINEERING
FOR WASHINGTON COUNTY, MD DATE

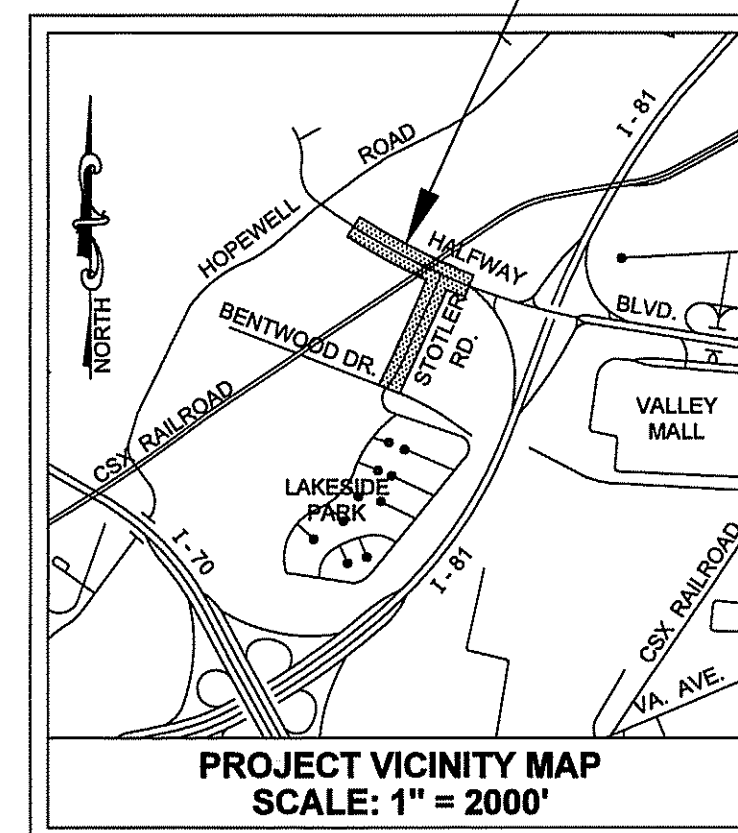
I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT ON THIS SITE WILL BE DONE PURSUANT TO THIS PLAN AND IN ACCORDANCE WITH THE STORM WATER MANAGEMENT, GRADING, SOIL EROSION AND SEDIMENT CONTROL ORDINANCE OF WASHINGTON COUNTY.

10/7/22 *Scott Hobbs* *Scott Hobbs*
DATE PRINTED NAME SIGNATURE OWNER/DEVELOPER

WASHINGTON COUNTY SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

BY: *Devin [Signature]*
DATE: 10/7/2022
(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL.)

OWNER/DEVELOPER:
BOARD OF COUNTY COMMISSIONERS
FOR WASHINGTON COUNTY, MD
AGENT: SCOTT HOBBS, P.E.
DIRECTOR OF ENGINEERING
747 NORTHERN AVENUE
HAGERSTOWN, MARYLAND 21742
PHONE: 240-313-2460
FAX: 240-313-2401



BOARD OF COUNTY COMMISSIONERS:
JEFFREY A. CLINE, PRESIDENT
TERRY L. BAKER, VICE PRESIDENT
WAYNE K. KEEFER
RANDALL E. WAGNER
CHARLES A. BURKETT JR.

JOHN M. MARTIRANO, COUNTY ADMINISTRATOR
SCOTT HOBBS, P.E., DIRECTOR OF ENGINEERING

DISTURBED AREA QUANTITY

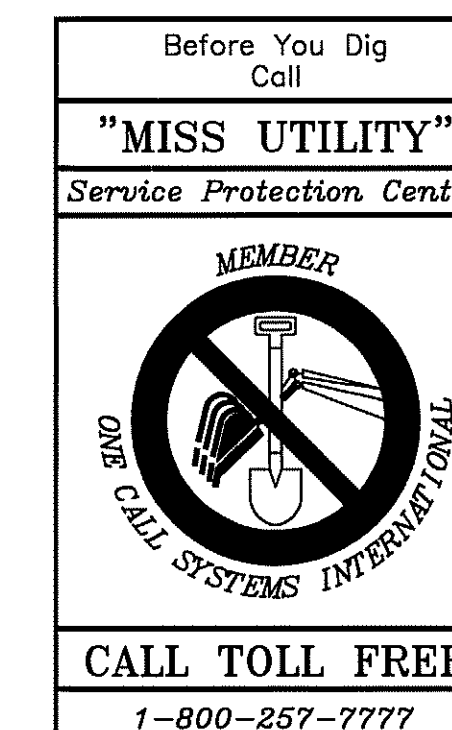
THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 1.5 ACRES AND THE TOTAL AMOUNT OF EXCAVATION AND FILL SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 2,050 CU. YDS. OF EXCAVATION AND APPROXIMATELY 2,450 CU. YDS. OF FILL.

DESIGN DESIGNATION - STOTLER ROAD

	2016	2022
Control	2016	2022
Average Daily Traffic	3426	3151
Design Hourly Volume	410	380
Directional Distribution	50 / 50	50 / 50
% Trucks - ADT	4.9%	6.0%
% Trucks - DHV	7.5%	6.8%
Design Speed	30 M.P.H.	
Functional Classification	LOCAL	
Control Access	LIMITED	
Intensity of Development	RESIDENTIAL / COMMERCIAL	
Terrain	ROLLING	
Anticipated Posted Speed	25 M.P.H.	

INDEX OF SHEET(S):

SHEET No.	SECTION	SHEET TITLE
SHEET 01	TI	COVER SHEET
SHEET 02	GN	GENERAL NOTES
SHEET 03-04	GL	GEOMETRIC LAYOUT
SHEET 05-07	PL	ROADWAY PLAN
SHEET 08-11	PR	CURB PROFILE SHEETS
SHEET 12-19	DE	ROADWAY & REINFORCED SLOPE DETAILS
SHEET 20-24	SG	SIGNAL PLAN & DETAILS
SHEET 25-30	MOT	MAINTENANCE OF TRAFFIC
SHEET 31-35	PMS	PAVEMENT MARKING AND SIGNAGE PLAN
SHEET 36-39	ES	EROSION & SEDIMENT CONTROL
SHEET 40-48	CS	CROSS SECTIONS



GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, THE LATEST EDITION OF THE MSHA STANDARD SPECIFICATIONS, AND SUPPLEMENTAL SPECIFICATIONS.
- WHERE REFERENCE IS MADE TO STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN HIS POSSESSION THE MARYLAND SHA BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES WITH THE LATEST UP TO DATE MSHA STANDARDS AS OF THE DATE OF ADVERTISEMENT OF THIS PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE LATEST APPROVED SET OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND ANY REFERENCED MSHA STANDARDS AS OF NOTICE TO PROCEED.
- HORIZONTAL CONTROL:**
THE COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS VALUES BASED ON SURROUNDING NGS, WASHINGTON COUNTY AND CITY OF HAGERSTOWN CONTROL MONUMENTS ADJUSTED TO THE MARYLAND GRID SYSTEM, NAD 83(91).
- VERTICAL CONTROL:**
THE LOCATIONS AND ELEVATIONS BENCHMARKS ARE SHOWN ON PLAN SHEET. PROJECT ELEVATIONS SHOWN ARE IN U.S. SURVEY FEET AND AGREE WITH THE MARYLAND GRID SYSTEM, NAVD 88.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING PROPERTY MARKERS, CONTROL POINTS AND BENCHMARKS FOR THE DURATION OF THE CONTRACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE ANY OF THESE POINTS THAT ARE DISTURBED OR DAMAGED DURING THE CONSTRUCTION PROCESS. WHERE NECESSARY, POINTS SHALL BE REPLACED UNDER THE DIRECT SUPERVISION OF A REGISTERED SURVEYOR TO THE STANDARD WITH WHICH THEY WERE ESTABLISHED.
- DEFINITION OF TERMS:

PROPOSED RIGHT OF WAY:
DENOTES LAND BELONGING TO COUNTY OR STATE, WHICH CONTAINS THE ROADWAY AND SUPPORTING STRUCTURES.

PERPETUAL EASEMENT:
PORTIONS OF PRIVATE PROPERTY FOR WHICH THE COUNTY HAS ACQUIRED THE RIGHT TO UTILIZE FOR THE INSTALLATION AND MAINTENANCE OF UTILITIES, DRAINAGE STRUCTURES, ETC.

REVERTIBLE EASEMENT:
PORTIONS OF PRIVATE PROPERTY FOR WHICH THE COUNTY HAS ACQUIRED THE RIGHT TO CONSTRUCT AND MAINTAIN SUPPORTING SLOPES AND STRUCTURES FOR THE ROADWAY.

TEMPORARY CONSTRUCTION EASEMENT:
PORTIONS OF PRIVATE PROPERTY ON WHICH THE COUNTY HAS ACQUIRED THE RIGHT TO OCCUPY AND GRADE ON DURING THE PERIOD OF CONSTRUCTION.
- ALL INVERT ELEVATIONS ARE APPROXIMATE. INVERT ELEVATIONS OF PIPES MAY BE MODIFIED, AS DIRECTED BY THE ENGINEER, TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES. ALL PIPES SHALL BE CONSTRUCTED ON UNIFORM GRADE BETWEEN INVERT ELEVATIONS AS NOTED ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE LOCATIONS AND LENGTHS OF PIPES TO BE INSTALLED SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES AS NECESSARY IN ORDER TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- ALL DITCHES AND CHANNELS SHALL BE CONSTRUCTED AND STABILIZED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF ALL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL CONDITIONS AND PLANNING ALL CONSTRUCTION ACCORDINGLY. ALL DIMENSIONS SHOWN SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE ANY WORK COMMENCES.
- ANY DAMAGE TO ADJACENT ROADS, YARDS, STRUCTURES, FENCES, SHRUBBERY, ETC., DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY OR THE PROPERTY OWNERS BEFORE ANY WORK COMMENCES.
- THE CONTRACTOR SHALL GRADE FOR POSITIVE DRAINAGE AT ALL ROADWAY INTERSECTIONS, ENTRANCES, PARKING LOTS, AND YARDS IN CONFORMANCE WITH THE PROPOSED DRAINAGE PATTERNS SHOWN ON THE PLANS.
- MAILBOXES SHALL BE REMOVED AND RESET BY THE CONTRACTOR AS NECESSARY TO COMPLETE THE WORK. THIS COST IS INCIDENTAL TO THE CLEARING AND GRUBBING ITEM. CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS AND THE POSTMASTER 48 HRS. PRIOR TO THE REMOVAL OF THE MAILBOXES. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY RELOCATION AND FINAL PLACEMENT OF ALL EXISTING MAILBOXES WITH THE POST OFFICE IN HAGERSTOWN, MD SUCH THAT MAIL DELIVERY IS UNINTERRUPTED.
- MATERIALS SALVAGED FROM CONSTRUCTION SHALL BECOME THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- WORK SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES. IF ACCESS MUST BE INTERRUPTED FOR SHORT PERIODS OF TIME, THE INTERRUPTION SHALL BE COORDINATED WITH THE ENGINEER AND THE PROPERTY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC THROUGHOUT THE ENTIRE PERIOD OF CONSTRUCTION BY PROVIDING A REASONABLY SMOOTH AND EVEN SURFACE SATISFACTORY FOR THE USE OF PUBLIC TRAFFIC, AND BY PROVIDING ACCESS TO ALL PUBLIC ROADS AND RESIDENTIAL AND COMMERCIAL ENTRANCES AT ALL TIMES.
- THE CONTRACTOR MUST NOT OCCUPY ANY NON-PERMITTED WETLAND AREAS.

- THE CONTRACTOR SHALL ADJUST TO PROPOSED GRADE ALL EXISTING MANHOLES, VALVE BOXES, OR OTHER UTILITIES LOCATED WITHIN THE ASPHALT OVERLAY AND FULL DEPTH ASPHALT PAVING AREAS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE ASPHALT PAY ITEMS NECESSARY TO COMPLETE THE WORK.
 - THE CONTRACTOR SHALL ADJUST TO PROPOSED GRADE ALL EXISTING MANHOLES, VALVE BOXES, CLEANOUTS, OR OTHER UTILITIES LOCATED WITHIN THE CONCRETE SIDEWALK. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONCRETE SIDEWALK ITEMS NECESSARY TO COMPLETE THE WORK.
 - ALL ASPHALT PAVEMENT UTILITY CUTS SHALL BE PERFORMED AND REPAIRED IN ACCORDANCE WITH WASHINGTON COUNTY STANDARDS.
 - IN ANY AREA WHERE ASPHALT THAT IS TO BE REMOVED ADJOINS ASPHALT THAT IS TO REMAIN, THE ASPHALT PAVING SHALL BE SAW CUT IN ORDER TO PROVIDE A CLEAN JOINT BETWEEN THAT WHICH IS TO BE REMOVED AND THAT WHICH IS TO REMAIN.
 - IN AREAS WHERE CONCRETE THAT IS TO BE REMOVED ADJOINS CONCRETE THAT IS TO REMAIN, THE CONCRETE SHALL BE SAW CUT AT THE NEAREST JOINT AND A BITUMINOUS EXPANSION JOINT PROVIDED BETWEEN NEW AND EXISTING WORK. WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE SPECIFICATIONS AND ON THE APPROVED CONSTRUCTION DRAWINGS.
 - THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL OR ROOT CUTTING OF TREES WITHIN THE PUBLIC RIGHT OF WAY. REPLACEMENT TREES, IF REQUIRED, WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES-MARYLAND FOREST, PARK, AND WILDLIFE SERVICE WHOSE TELEPHONE NUMBER IS (301-888-1638). THE CONTRACTOR SHALL ALLOW FOR THE TIME INVOLVED IN THE PROCESSING OF THE PERMIT WHEN MAKING APPLICATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT, MAINTENANCE, RELOCATION, AND OPERATION (INCLUDING UPDATING THE MESSAGE AS REQUIRED) OF THE CHANGEABLE MESSAGE BOARDS THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ALSO PROVIDE A CONTACT AVAILABLE 24 7 FOR REPAIR AND MAINTENANCE
 - CONTRACTOR SHALL NOSE DOWN LAST THREE (3) FEET OF PROPOSED CURB AND GUTTER WHEN NOT TYING INTO EXISTING CURB AND GUTTER.
 - CLEARING AND GRUBBING SHALL OCCUR INSIDE THE PLATTED RIGHT OF WAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - UTILITIES: THE LOCATIONS OF UNDERGROUND AND AERIAL UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT TO BE CONSIDERED COMPLETE OR ACCURATE. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS PRIOR TO STATING ANY WORK SHOWN ON THESE DRAWINGS. THE CONTRACTOR MUST PROTECT, IN PLACE, ALL ACTIVE UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED ON THE PLANS.
- | | |
|--|-------------------------|
| Miss Utility | 1-800-257-7777 |
| Washington County Division of Engineering | 240-313-2460 |
| Washington County Dept. of Water Quality | 240-313-2625 |
| Washington County Soil Conservation District | 301-797-6821 (Ext.3) |
| Potomac Edison (Allegheny Power) | 301-582-5266 |
| Columbia Gas (Hagerstown) | 240-420-2026 |
| Verizon | 301-790-7135 |
| Antietam Cable | 240-420-2082 |
| City of Hagerstown Utilities Dept. - Water & Wastewater Division | 301-739-8577 (Ext. 650) |
- IF DURING CONSTRUCTION THE CONTRACTOR FINDS THAT CLEARANCES BETWEEN EXISTING UTILITIES AND PROPOSED WORK IS LESS THAN THAT NOTED OR IS LESS THAN SIX INCHES, HE SHALL CONTACT THE ENGINEER FOR INSTRUCTIONS ON HOW TO PROCEED.
 - THE CONTRACTOR MUST PROTECT IN PLACE ANY ACTIVE ABOVE GROUND AND OR UNDERGROUND UTILITIES FOUND UNLESS OTHER TREATMENT IS CALLED FOR. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION. THE COUNTY OR THE PROPERTY OWNER SHALL NOT BEAR ANY COST OR RESPONSIBILITY FOR DAMAGE TO UTILITIES OR PROPERTY AS THE RESULT OF THE CONTRACTOR'S NEGLIGENCE.
 - THE CONTRACTOR SHALL PROTECT AND NOT INTERRUPT EXISTING UTILITY SERVICES DURING CONSTRUCTION, UNLESS AUTHORIZED BY THE ENGINEER. THE CONTRACTOR SHALL SUPPORT EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION AND THIS SUPPORT SHALL BE INCIDENTAL TO PERTINENT PAY ITEMS. THE LOCATION OF THE UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ELECTRIC POWER AND TELEPHONE SERVICE CONNECTIONS NECESSARY FOR THE FIELD OFFICES AND PROJECT OPERATIONS WITH POTOMAC EDISON COMPANY AND VERIZON TELEPHONE COMPANY. ALL COSTS, MATERIALS, AND INSTALLATION OF SERVICE CONNECTIONS SHALL BE PAID FOR BY THE CONTRACTOR.
 - ALL LAYOUT DIMENSIONS SHOWN ARE TO THE FLOW LINE FACE OF CURB.

ABBREVIATIONS

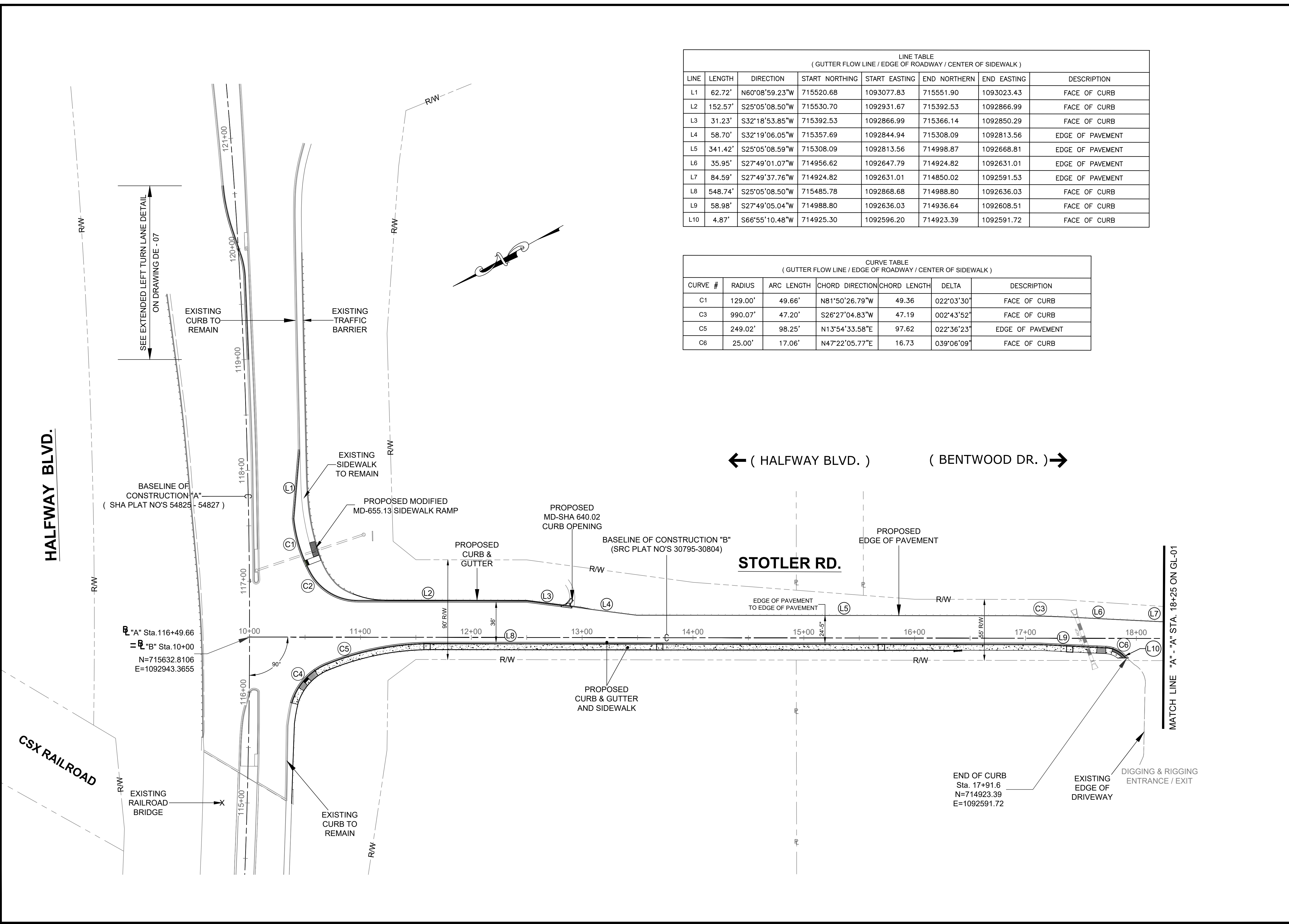
AASHTO	-AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	G2	-GRADE 2	PVI	-POINT OF VERTICAL INTERSECTION
ADT	-AVERAGE DAILY TRAFFIC	H.S.D	-HEADLIGHT SIGHT DISTANCE	PVT	-POINT OF VERTICAL TANGENCY
B.C.	-BOTTOM OF CURB	HWALL	-HEADWALL	R.	-RADIUS
B.F.C.	-BOTTOM FACE OF CURB	INV.	-INVERT	RCP	-REINFORCED CONCRETE PIPE
B/L	-BASE LINE	K	-RATE OF CHANGE OF GRADE	R.G.E.	-REVERTIBLE GRADING EASEMENT
-C-	-CUT	L	-LENGTH	R.O.W.	-RIGHT OF WAY
C.B.	-CATCH BASIN	LOD	-LIMIT OF DISTURBANCE	S.B.	-SOUTH BOUND
CL	-CENTERLINE	LP	-LIGHTPOLE	S.D.	-STORM DRAIN
C/O	-CLEANOUT	LVC	-LENGTH OF VERTICAL CURVE	SHLD	-SHOULDER
CONC.	-CONCRETE	MPH	-MILES PER HOUR	S.S.D.	-STOPPING SIGHT DISTANCE
CORR.	-CORRECTION	MSHA	-MARYLAND STATE HIGHWAY ASSOCIATION	STA.	-STATION
CULV.	-CULVERT	N.P.	-NORTH BOUND	S/W	-SIDEWALK
Dc	-DEGREE OF CURVATURE	N.T.S.	-NOT TO SCALE	T	-TANGENT
DS.	-DESIGN SPEED	PC	-POINT OF CURVATURE	T.C.	-TOP OF CURB
E	-EXTERNAL	P.D.E.	-PERPETUAL DRAINAGE EASEMENT	T.C.E.	-TEMPORARY CONSTRUCTION EASEMENT
E.B.	-EAST BOUND	P.G.E.	-PROFILE GRADE ELEVATION	T.P.	-TEST PIT
EL., ELEV.	-ELEVATION	P.G.L.	-PROFILE GRADE LINE	TYP.	-TYPICAL
ESMT.	-EASEMENT	P.I.	-POINT OF INTERSECTION	U/BOX	-UTILITY BOX
EX.	-EXISTING	P/R	-POINT OF ROTATION	V.C.	-VERTICAL CURVE
-F-	-FILL	PROP.	-PROPOSED	W.B.	-WEST BOUND
G1	-GRADE 1	PT.	-POINT OF TANGENCY		
		PVC	-POINT OF VERTICAL CURVATURE		

SYMBOL LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE, CORNER
		RIGHT-OF-WAY LINE
		UTILITIES EASEMENT
		TEMP. CONSTRUCTION EASEMENT (T.C.E.)
		REVERTIBLE GRADING EASEMENT (R.G.E.)
		DRAINAGE EASEMENT
		FOREST EASEMENT
		STREAM EASEMENT
		CENTERLINE
		CONTOURS
		PROFILE GRADE LINE
		TREE LINE
		EDGE OF PAVEMENT
		CONCRETE CURB
		CONCRETE CURB & GUTTER
		FENCE LINE
		STREAM OR DITCH
		FLOW LINE
		WATER LINE
		SANITARY SEWER LINE, STUB
		GAS LINE
		FORCE MAIN
		STORM DRAIN, END SECTION
		WATER VALVE
		WATER CAP, REDUCER, BEND
		FIRE HYDRANT, METER
		OVERHEAD ELECTRIC LINE
		TRAFFIC BARRIER
		FLOODPLAIN
		BUILDINGS, HOUSES, GARAGES
		SANITARY SEWER MANHOLE
		STORM DRAIN INLET
		UTILITY POLE
		HANDICAP PARKING
		POLE LIGHT
		ROAD SIGN
		SPOT ELEVATION
		INLET NUMBERING
		END SECTION NUMBERING
		ENDWALL NUMBERING
		SOIL BORING LOCATION
		DIRECTIONAL FLOW ARROW

DATE	
BY	
REVISION DESCRIPTION	
NO.	
DESIGNED BY:	PJM
DRAWN BY:	CLJ
CHECKED BY:	PJM/SH
DATE:	09-15-22
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING Washington County Administrative Annex, Building 747 Northern Avenue, Hagerstown, Maryland, 21742 Phone: 240-313-2460 Fax: 240-313-2401	
INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS STOTLER RD. & HALFWAY BLVD. GENERAL NOTES	
SCALE	NONE
SECTION NO.	GN - 01
SHEET NO.	02 OF 48
PROJECT NO.	16-045

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK\CONSTRUCTION\2 GD - GEOMETRIC LAYOUT\GEOMETRIC.DWG Last Saved: 10/5/2022 11:53 AM



LINE TABLE
(GUTTER FLOW LINE / EDGE OF ROADWAY / CENTER OF SIDEWALK)

LINE	LENGTH	DIRECTION	START NORTHING	START EASTING	END NORTHERN	END EASTING	DESCRIPTION
L1	62.72'	N60°08'59.23"W	715520.68	1093077.83	715551.90	1093023.43	FACE OF CURB
L2	152.57'	S25°05'08.50"W	715530.70	1092931.67	715392.53	1092866.99	FACE OF CURB
L3	31.23'	S32°18'53.85"W	715392.53	1092866.99	715366.14	1092850.29	FACE OF CURB
L4	58.70'	S32°19'06.05"W	715357.69	1092844.94	715308.09	1092813.56	EDGE OF PAVEMENT
L5	341.42'	S25°05'08.59"W	715308.09	1092813.56	714998.87	1092668.81	EDGE OF PAVEMENT
L6	35.95'	S27°49'01.07"W	714956.62	1092647.79	714924.82	1092631.01	EDGE OF PAVEMENT
L7	84.59'	S27°49'37.76"W	714924.82	1092631.01	714850.02	1092591.53	EDGE OF PAVEMENT
L8	548.74'	S25°05'08.50"W	715485.78	1092868.68	714988.80	1092636.03	FACE OF CURB
L9	58.98'	S27°49'05.04"W	714988.80	1092636.03	714936.64	1092608.51	FACE OF CURB
L10	4.87'	S66°55'10.48"W	714925.30	1092596.20	714923.39	1092591.72	FACE OF CURB

CURVE TABLE
(GUTTER FLOW LINE / EDGE OF ROADWAY / CENTER OF SIDEWALK)

CURVE #	RADIUS	ARC LENGTH	CHORD DIRECTION	CHORD LENGTH	DELTA	DESCRIPTION
C1	129.00'	49.66'	N81°50'26.79"W	49.36	022°03'30"	FACE OF CURB
C3	990.07'	47.20'	S26°27'04.83"W	47.19	002°43'52"	FACE OF CURB
C5	249.02'	98.25'	N13°54'33.58"E	97.62	022°36'23"	EDGE OF PAVEMENT
C6	25.00'	17.06'	N47°22'05.77"E	16.73	039°06'09"	FACE OF CURB

NO.	REVISION DESCRIPTION	BY	DATE
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
DATE:			

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
80 W. Baltimore St., Hagerstown, MD 21740
Phone: 240-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
GEOMETRIC LAYOUT

SCALE
1" = 40'

SECTION NO.
GL - 01

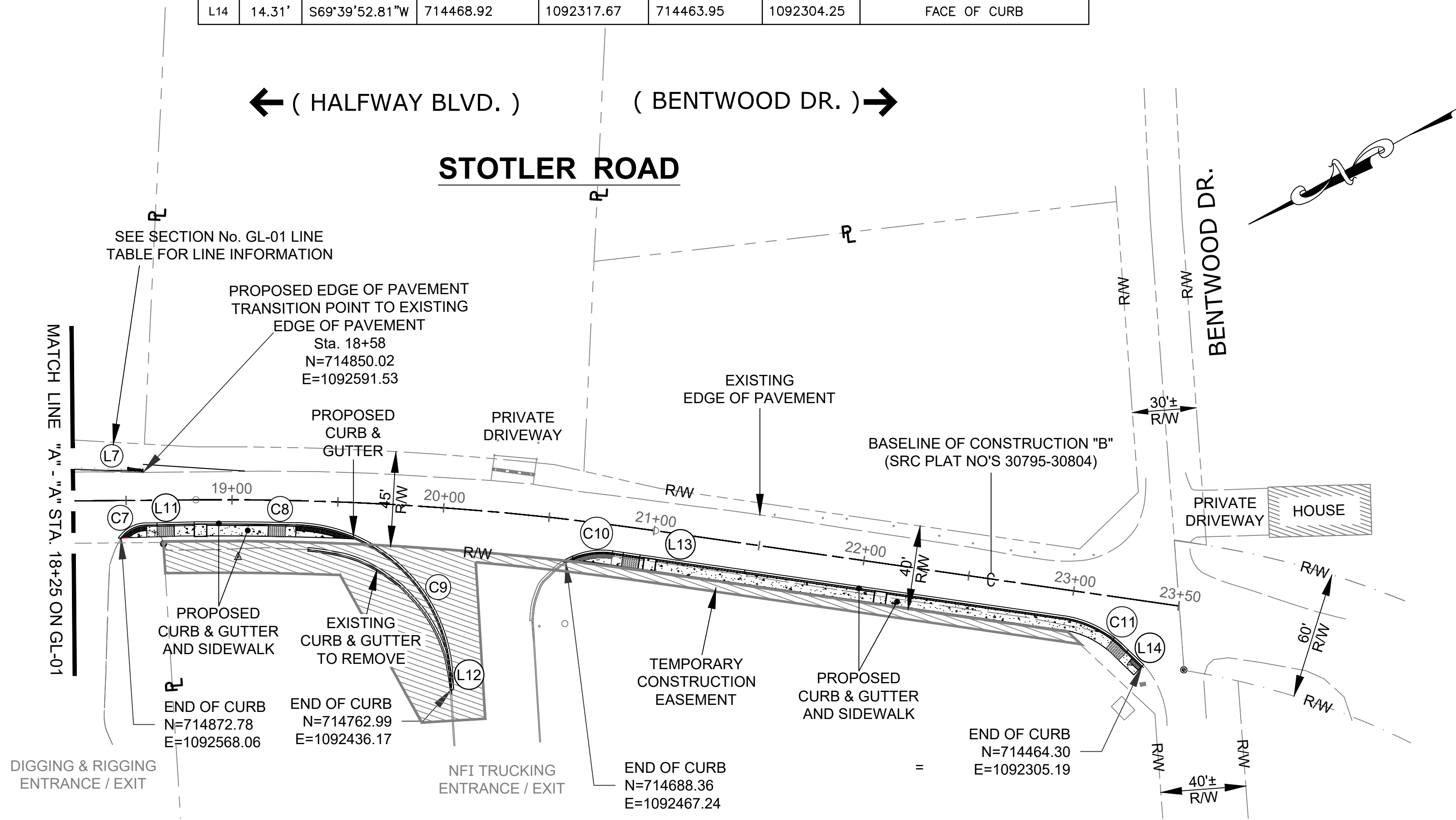
SHEET NO.
03 OF 48

PROJECT NO.
16-045

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK\CONSTRUCTION\2 GD - GEOMETRIC LAYOUT\GEOMETRIC.DWG Last Saved: 10/5/2022 11:53 AM

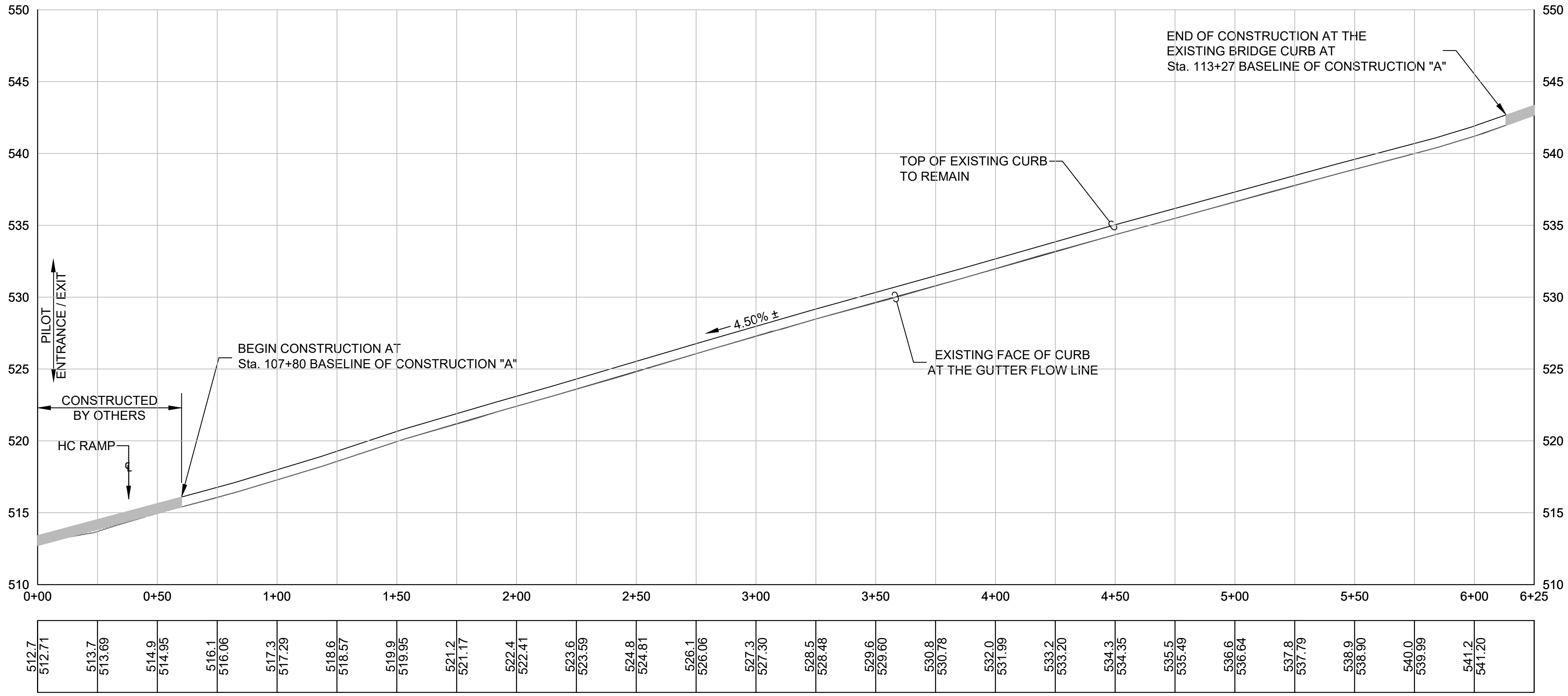
CURVE TABLE (GUTTER FLOW LINE / EDGE OF ROADWAY / CENTER OF SIDEWALK)						
CURVE #	RADIUS	ARC LENGTH	CHORD DIRECTION	CHORD LENGTH	DELTA	DESCRIPTION
C7	15.00'	13.94'	N01°11'18.24"W	13.44	053°14'51"	FACE OF CURB
C8	1420.48'	47.06'	N26°06'26.56"E	47.06	001°53'54"	FACE OF CURB
C9	75.00'	111.10'	N69°29'35.42"E	101.22	084°52'24"	FACE OF CURB
C10	35.00'	22.90'	S15°02'40.31"W	22.50	037°29'42"	FACE OF CURB
C11	50.00'	31.30'	S51°43'42.16"W	30.80	035°52'21"	FACE OF CURB

LINE TABLE (GUTTER FLOW LINE / EDGE OF ROADWAY / CENTER OF SIDEWALK)							
LINE	LENGTH	DIRECTION	START NORTHING	START EASTING	END NORTHERN	END EASTING	DESCRIPTION
L11	23.52'	S24°18'03.17"W	714859.34	1092568.34	714837.90	1092558.66	FACE OF CURB
L12	7.52'	N68°04'12.78"W	714760.18	1092443.15	714762.99	1092436.17	FACE OF CURB
L13	214.96'	S33°47'31.50"W	714666.84	1092461.40	714488.00	1092341.84	FACE OF CURB
L14	14.31'	S69°39'52.81"W	714468.92	1092317.67	714463.95	1092304.25	FACE OF CURB



DESIGNED BY: PJM	DRAWN BY: CLJ	CHECKED BY: PJM	DATE:
			09-15-22
REVISION DESCRIPTION			NO.
BY			DATE
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING			
Washington County Administrative Annex, Building 80 W. Baltimore St., Hagerstown, MD 21740 Phone: 240-313-2460 Fax: 240-313-2401			
INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS STOTLER RD. & HALFWAY BLVD. GEOMETRIC LAYOUT			
SCALE 1" = 40'			
SECTION NO. GL - 02			
SHEET NO. 04 OF 48			
PROJECT NO. 16-045			

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK\CONSTRUCTION\4 PP - ROADWAY PLAN & PROFILE\128-281 PP.DWG Last Saved: 10/5/2022 12:48 PM



HALFWAY BOULEVARD - SOUTH SIDE
FACE OF CURB PROFILE "C"

DESIGNED BY: PJM	NO.	REVISION DESCRIPTION	BY	DATE
DRAWN BY: GLJ				
CHECKED BY: PJM				
DATE: 09-15-22				

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING
 Washington County Administrative Annex, Building
 747 Northern Avenue, Hagerstown, Maryland, 21742
 Phone: 240-313-2660 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
 HALFWAY BLVD. - PROFILE SHEET

STATE OF MARYLAND
 PAMELA JEAN MOYER
 PROFESSIONAL ENGINEER
 No. 39252
 10.7.22

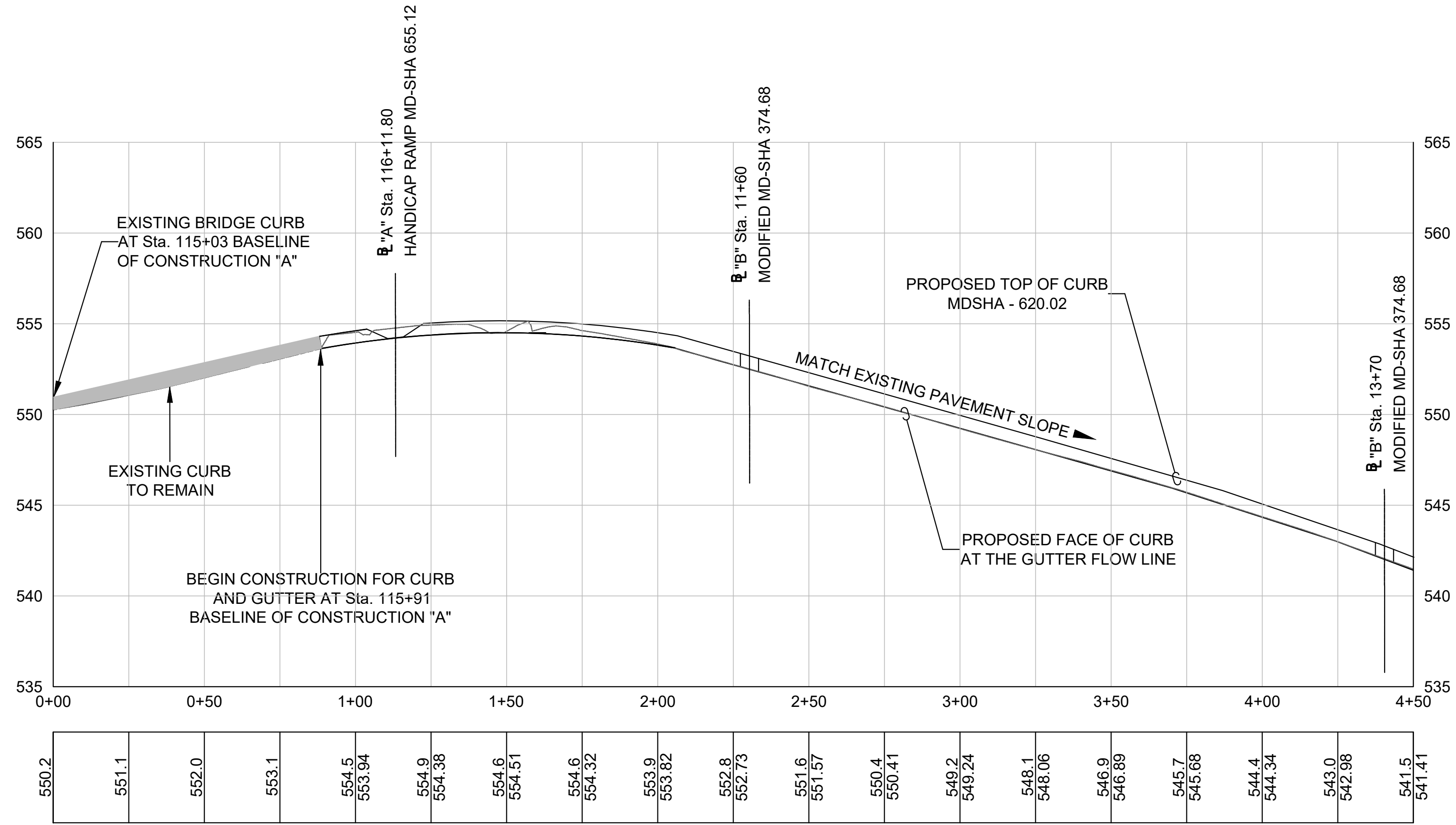
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SECTION NO.
 PR - 01

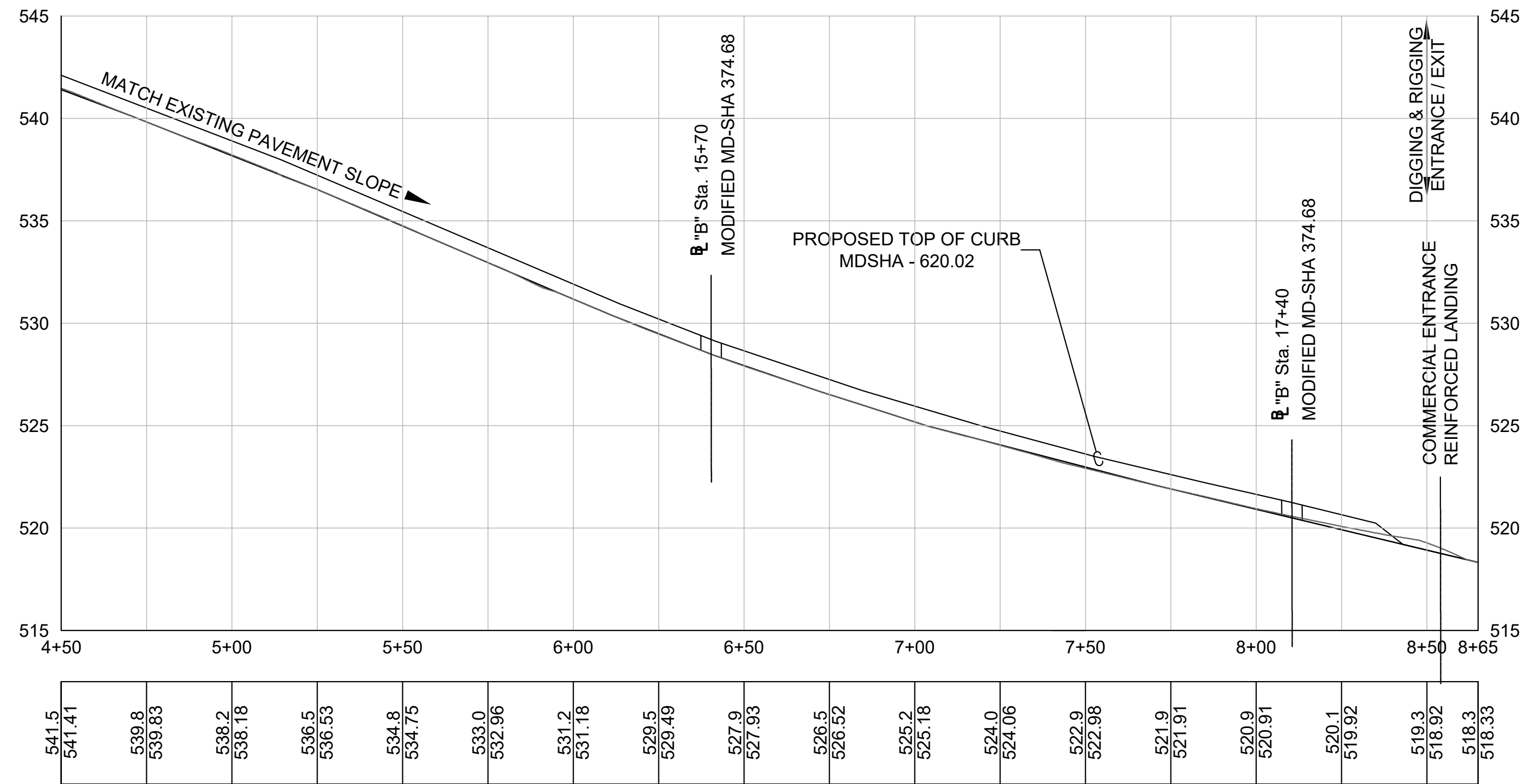
SHEET NO.
 08 OF 48

PROJECT NO.
 16-045

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK\CONSTRUCTION\4 PP - ROADWAY PLAN & PROFILE\28-281 PP.DWG Last Saved: 10/5/2022 12:50 PM



STOTLER ROAD - WEST SIDE
FACE OF CURB PROFILE "D"



STOTLER ROAD - WEST SIDE
FACE OF CURB PROFILE "D"

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 250-313-2660 Fax: 240-313-2401



INTERSECTION SIGNAL &
SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
STOTLER ROAD - PROFILE - D



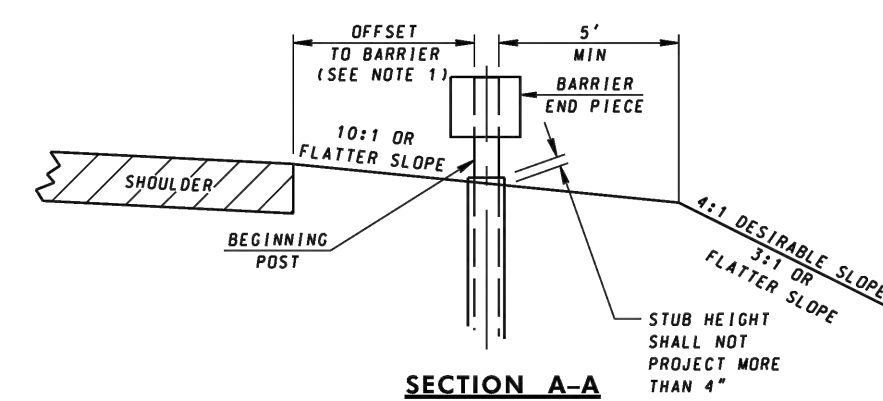
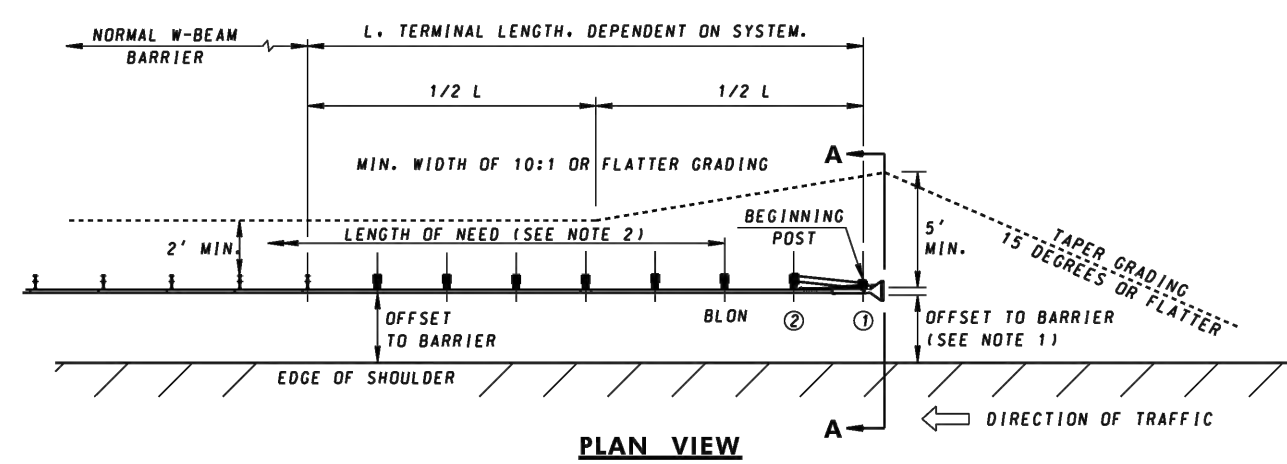
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SECTION NO.
PR - 02

SHEET NO.
09 OF 48

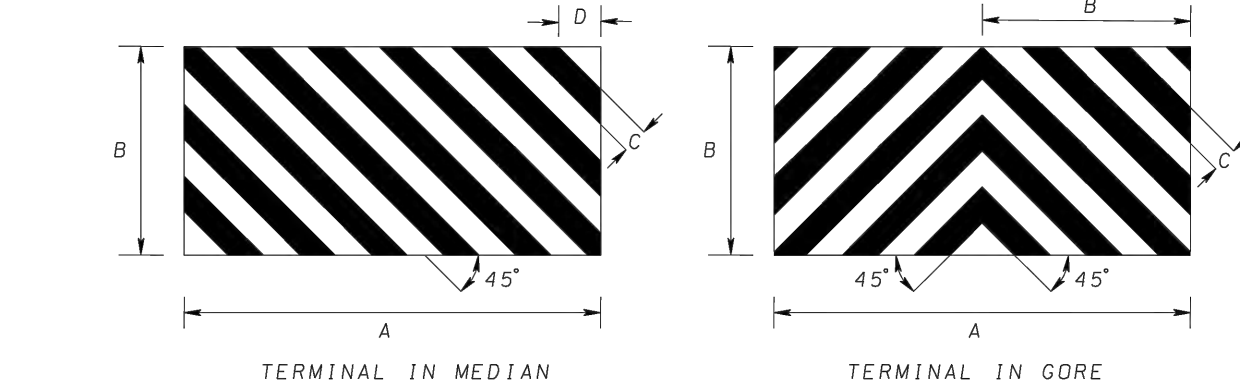
PROJECT NO.
16-045

DESIGNED BY:	NO.	REVISION DESCRIPTION	BY	DATE
PJM				
CLJ				
PJM				
PJM				
DATE:				
09-15-22				

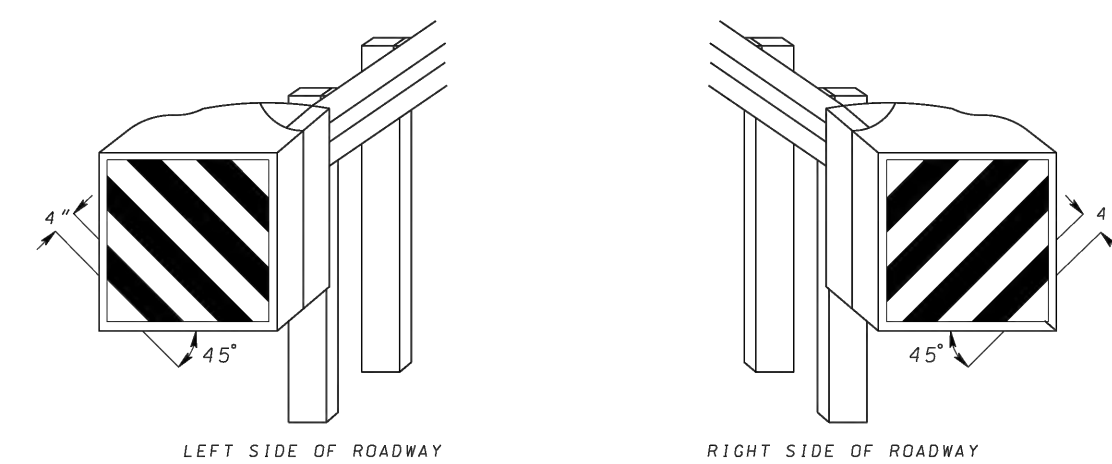


NOTES

1. WHEN THE TRAFFIC BARRIER POST IS PLACED LESS THAN 4' FROM THE EDGE OF SHOULDER/PAVEMENT, THE END TREATMENT SHALL BE FLARED AT A RATE OF 25:1 OVER THE FULL LENGTH AND ON A STRAIGHT LINE.
2. AN EFFECTIVE LOW OF 34" SHALL BE INCLUDED IN THE END TREATMENT PAVEMENT.
3. SYSTEM MUST BE INSTALLED AT A HEIGHT OF 31".
4. FOR DELINEATION, SEE STANDARD NO. 605.14.
5. THIS SCHEMATIC DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY. SEE MDT SHA DPL FOR APPROVED SYSTEMS THAT ARE 2016 WASH COMPLIANT.

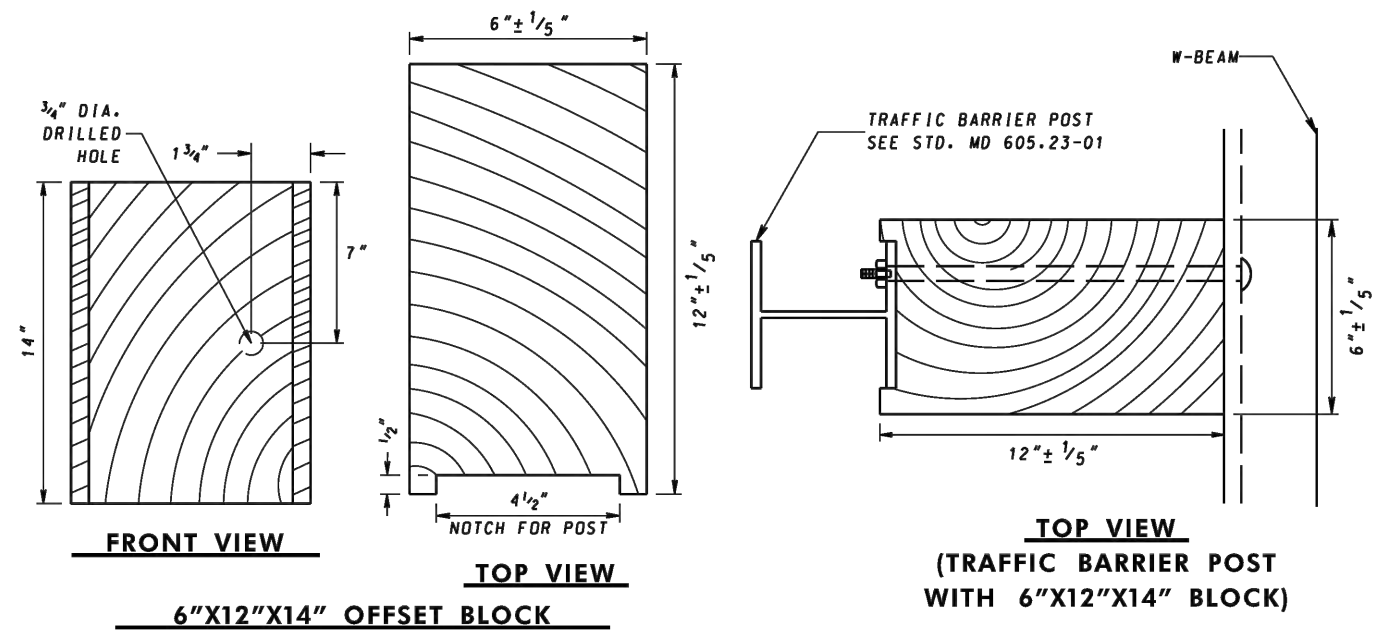
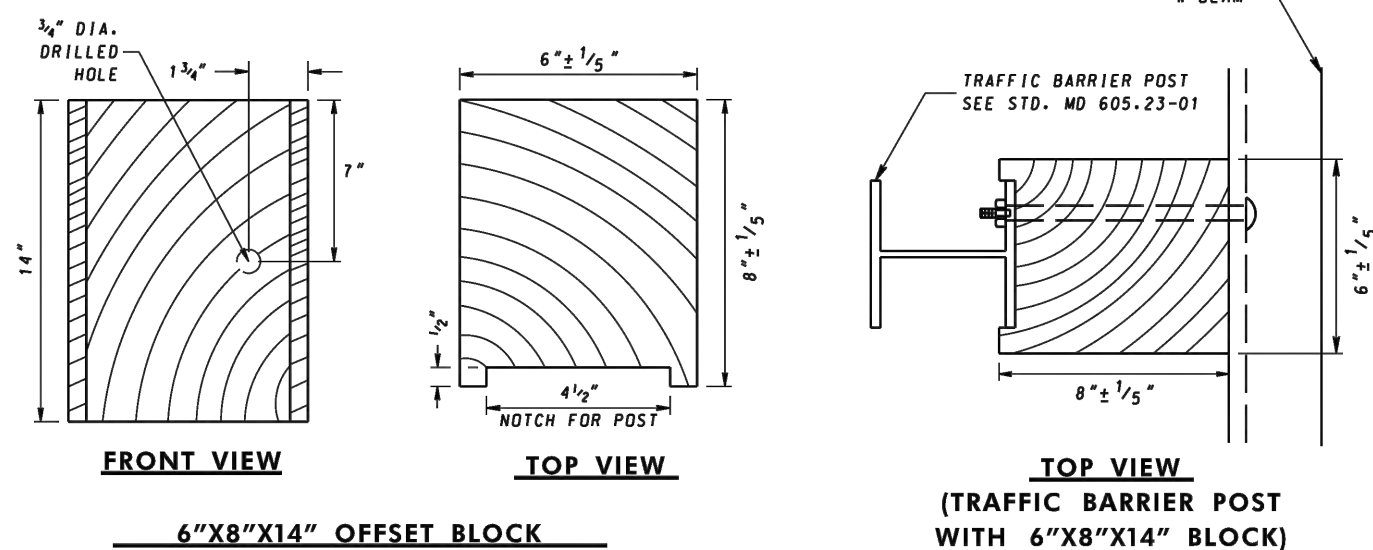


STANDARD NO.	DIMENSIONS (INCHES)
605	A B C D
605	3 4-1/4



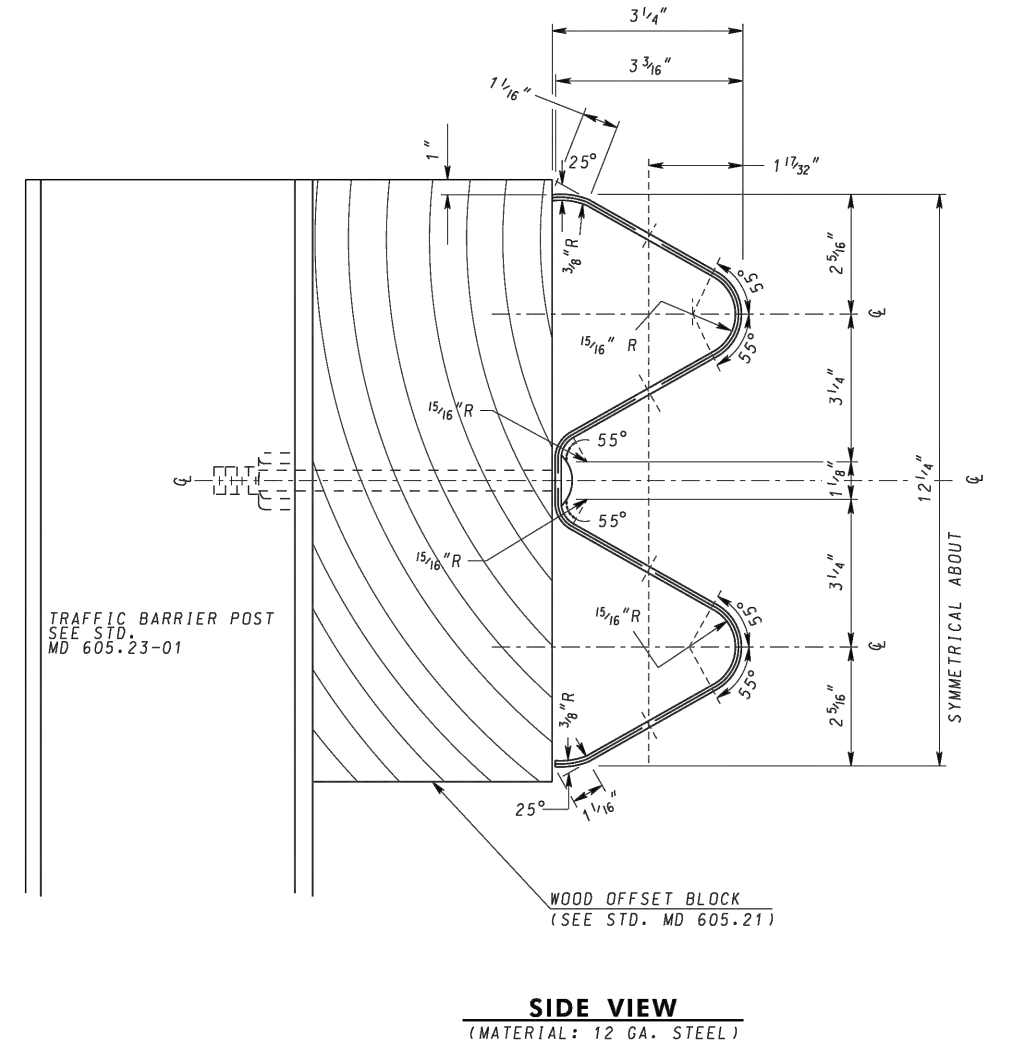
NOTES

1. DELINEATION MUST MEET THE REQUIREMENTS IN MUTCD SECTIONS 2C.64 AND 2C.65.
2. DELINEATION SHALL BE TYPE 1E OR 1F REFLECTIVE SHEETING WITH BLACK STRIPES ON FLUORESCENT YELLOW.
3. WHEN PLACING SHEETING ON BARE METAL, METAL SHOULD BE CLEANED AS PER MANUFACTURER'S RECOMMENDATIONS PRIOR TO APPLICATION OF SHEETING.
4. SHEETING SHOULD EXTEND TO TOP AND BOTTOM AND FULL WIDTH OF TERMINAL. SIZE MAY BE ADJUSTED AS NECESSARY TO FIT DIFFERENT MANUFACTURER'S TERMINALS.
5. DELINEATION WILL BE INCIDENTAL TO THE APPROPRIATE TRAFFIC BARRIER END TREATMENT.



NOTES

1. WOOD OFFSET BLOCKS 6"x8"x14" TO BE USED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.
2. FOR BOLT AND BOLT NUT DETAILS, SEE STD. MD 605.23.
3. USE COMPOSITE OFFSET BLOCKS.



NOTES

1. W-BEAM RAIL IS FURNISHED SHOP CURVED, CONCAVE OR CONVEX TO RADIUS BETWEEN 20'-10" TO 25'-0".
2. W-BEAM RAIL SECTIONS SHALL BE 12'-6" OR 25'-0" LENGTHS UNLESS SPECIFIED OTHERWISE.

SPECIFICATION	CATEGORY CODE ITEMS
606	
APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C)

STANDARD NO. MD 605.03

SPECIFICATION	CATEGORY CODE ITEMS
606	
APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

TRAFFIC BARRIER END TREATMENT AND CRASH CUSHION DELINEATION

STANDARD NO. MD 605.14

SPECIFICATION	CATEGORY CODE ITEMS
605	
APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

OFFSET BLOCK

STANDARD NO. MD 605.21

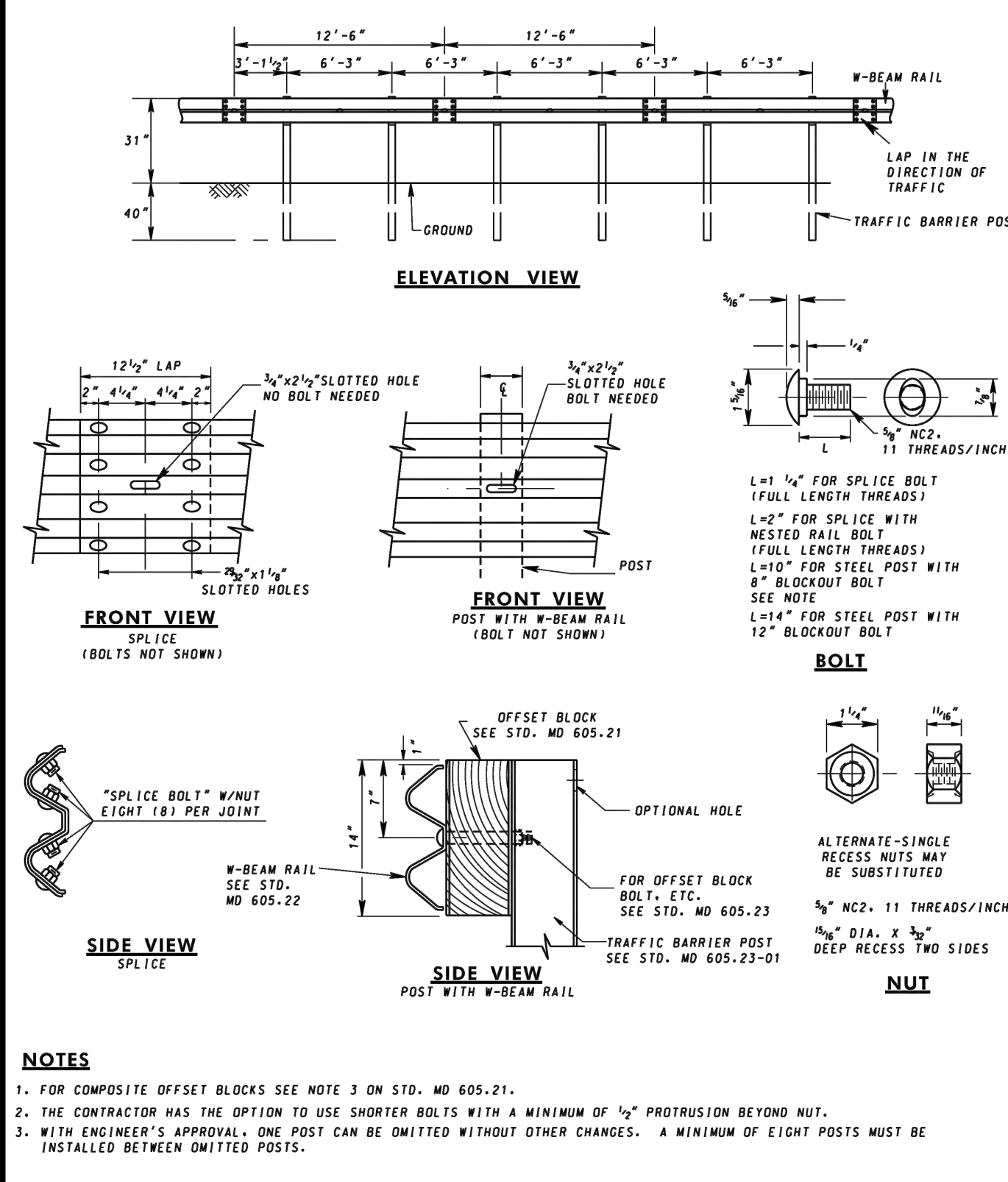
SPECIFICATION	CATEGORY CODE ITEMS
605	
APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

TRAFFIC BARRIER W-BEAM SINGLE FACE

STANDARD NO. MD 605.22



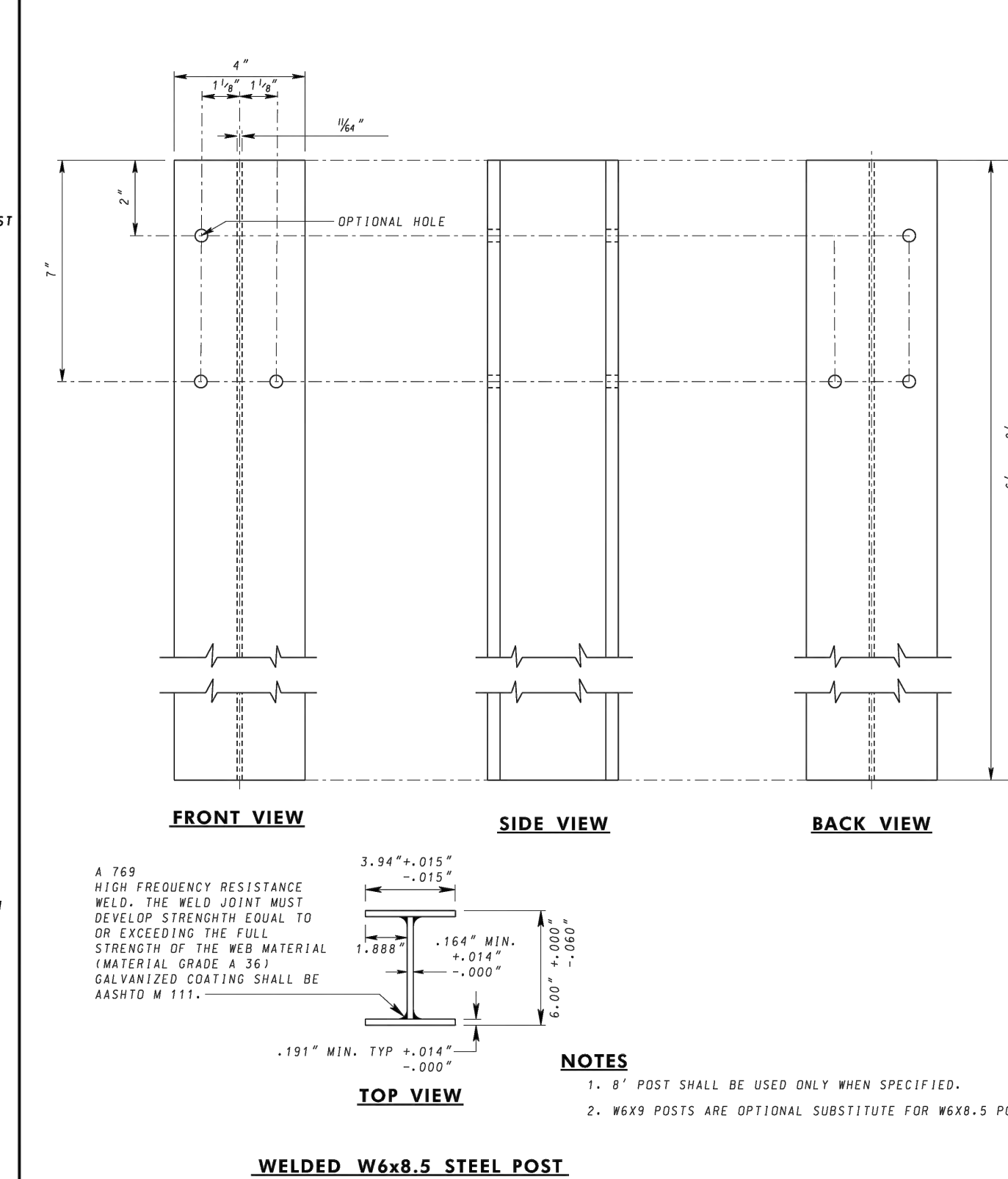
SPECIFICATION	CATEGORY CODE ITEMS
605	
APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

TRAFFIC BARRIER W-BEAM, W-BEAM SPLICES AND OFFSET BLOCK

STANDARD NO. MD 605.23



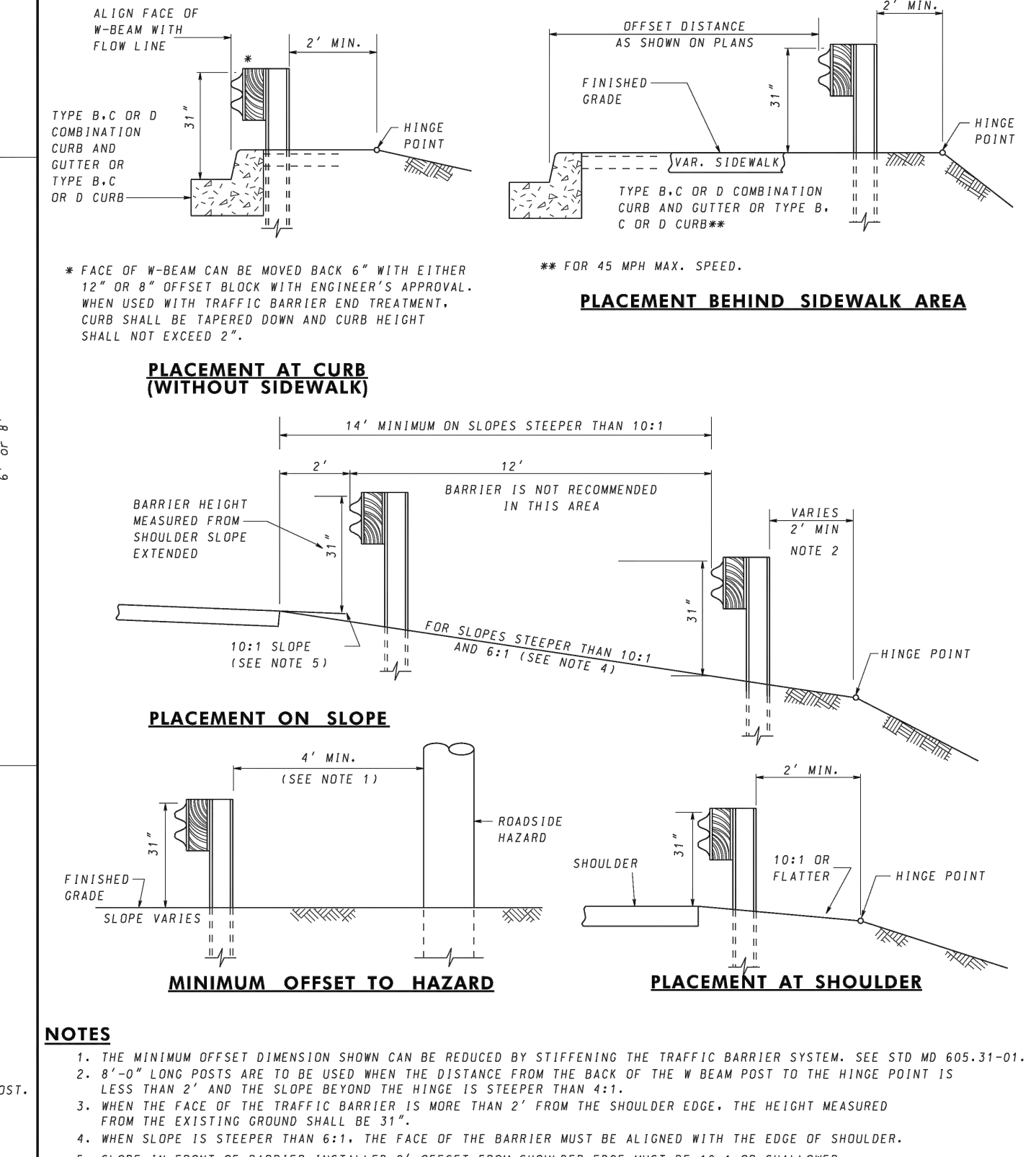
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APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

TRAFFIC BARRIER W-BEAM METAL POST

STANDARD NO. MD 605.23-01



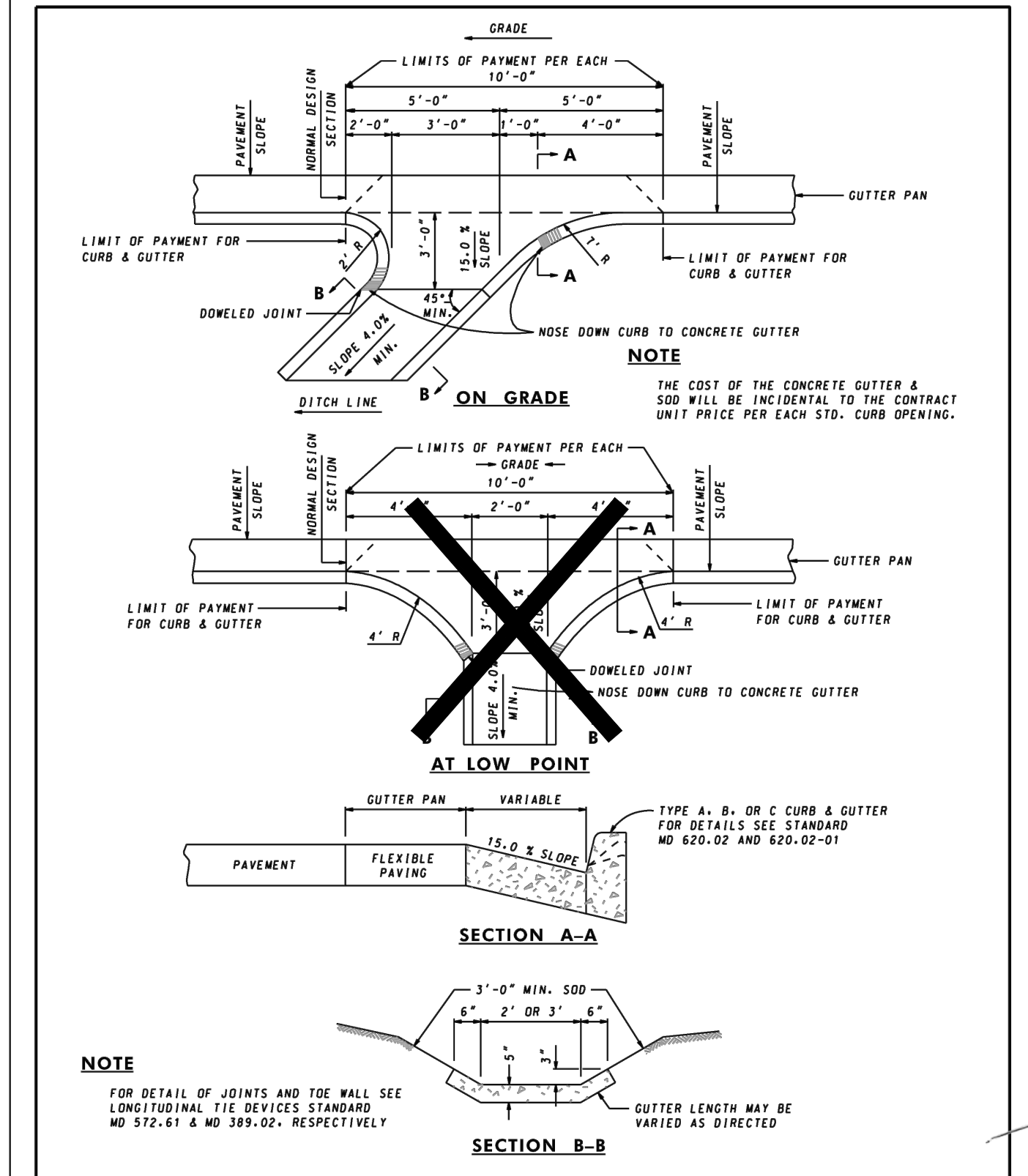
SPECIFICATION	CATEGORY CODE ITEMS
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APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

TRAFFIC BARRIER W-BEAM PLACEMENT DETAILS

STANDARD NO. MD 605.31



SPECIFICATION	CATEGORY CODE ITEMS
602	
APPROVED	<i>[Signature]</i>
REVISIONS	DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
APPROVAL SHA	APPROVAL FEDERAL
REVISIONS	HIGHWAY ADMINISTRATION
APPROVAL	APPROVAL
REVISIONS	REVISIONS
APPROVAL	APPROVAL
REVISIONS	REVISIONS

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION

STANDARD CURB OPENING DETAILS FOR COMBINATION CURB & GUTTER

STANDARD NO. MD 640.02

K:\CADD\28-281\STOTLER ROAD ADA SIDEWALK\CONSTRUCTION\5 DE - DETAILS\28-281 DE.DWG Last Saved: 10/25/2022 12:56 PM

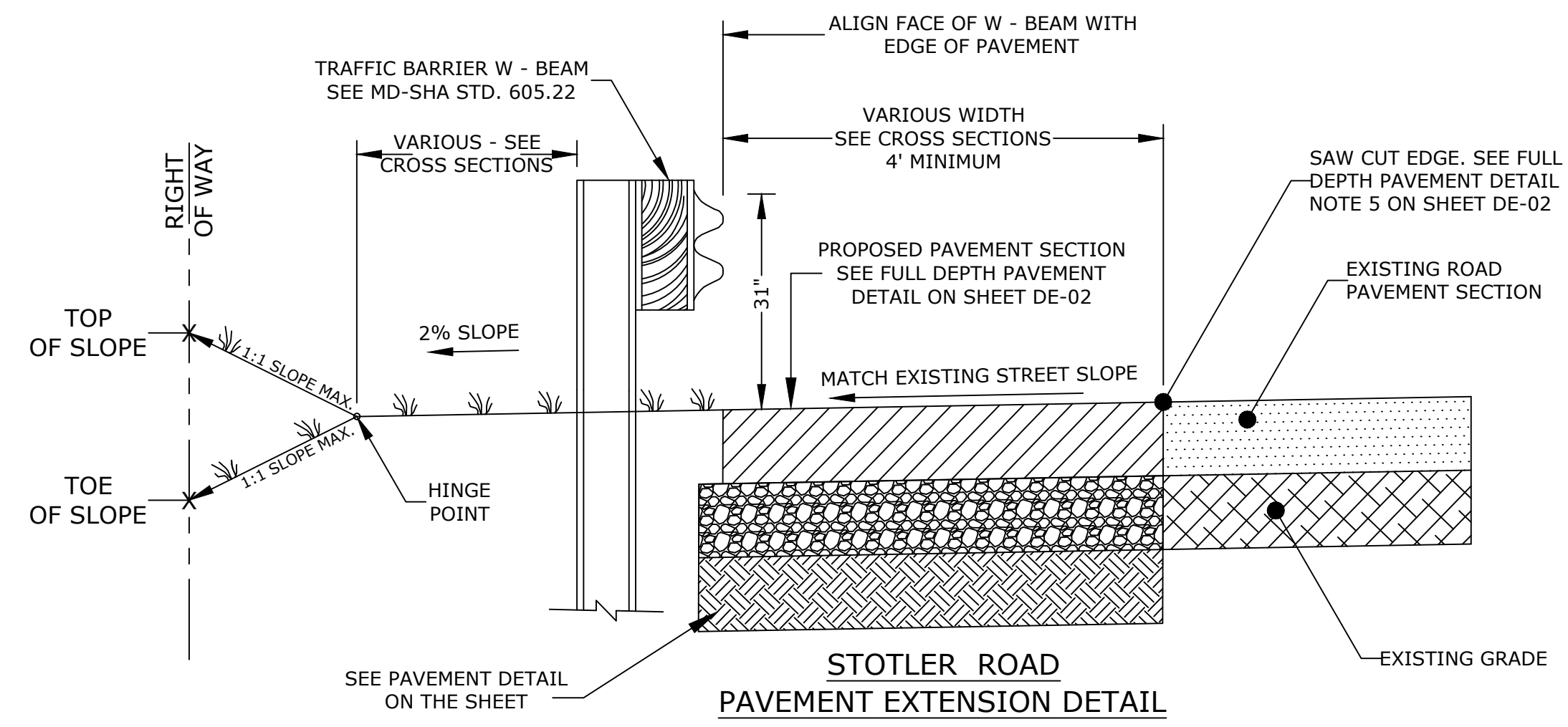
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DESIGNED BY:	PJM
DRAWN BY:	GLJ
CHECKED BY:	PJM/SH
DATE:	09-15-22

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

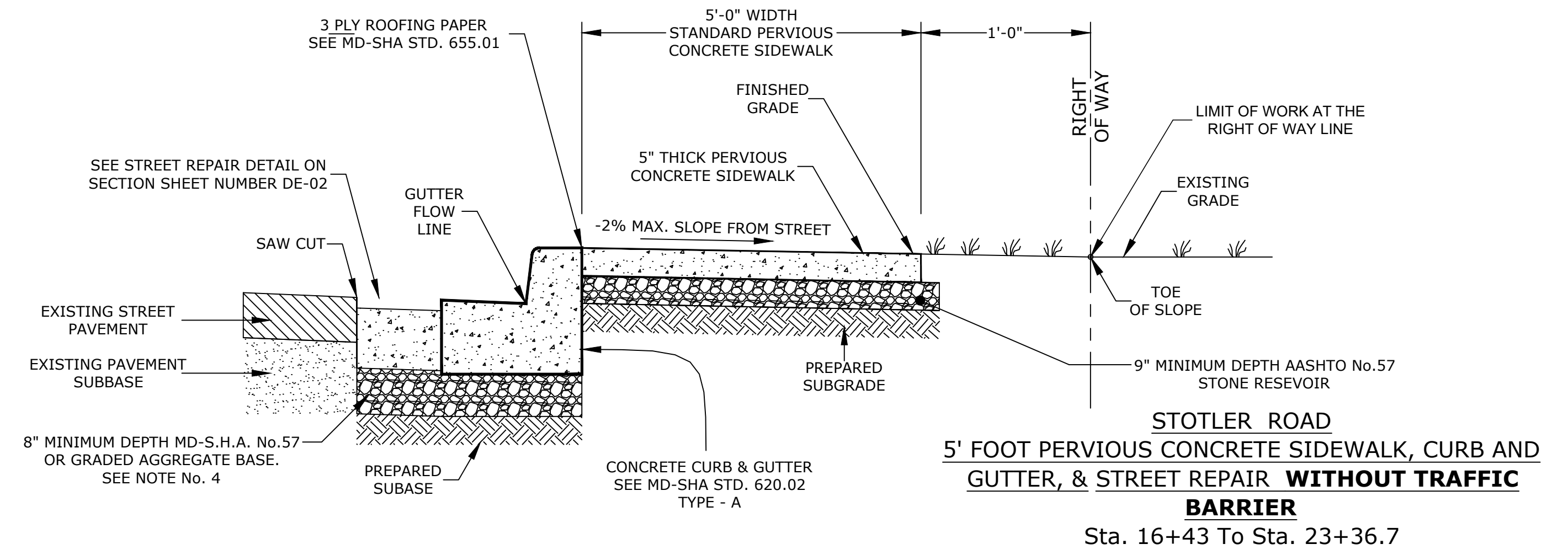
Washington County Administrative Annex, Building 747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 240-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
DETAILS

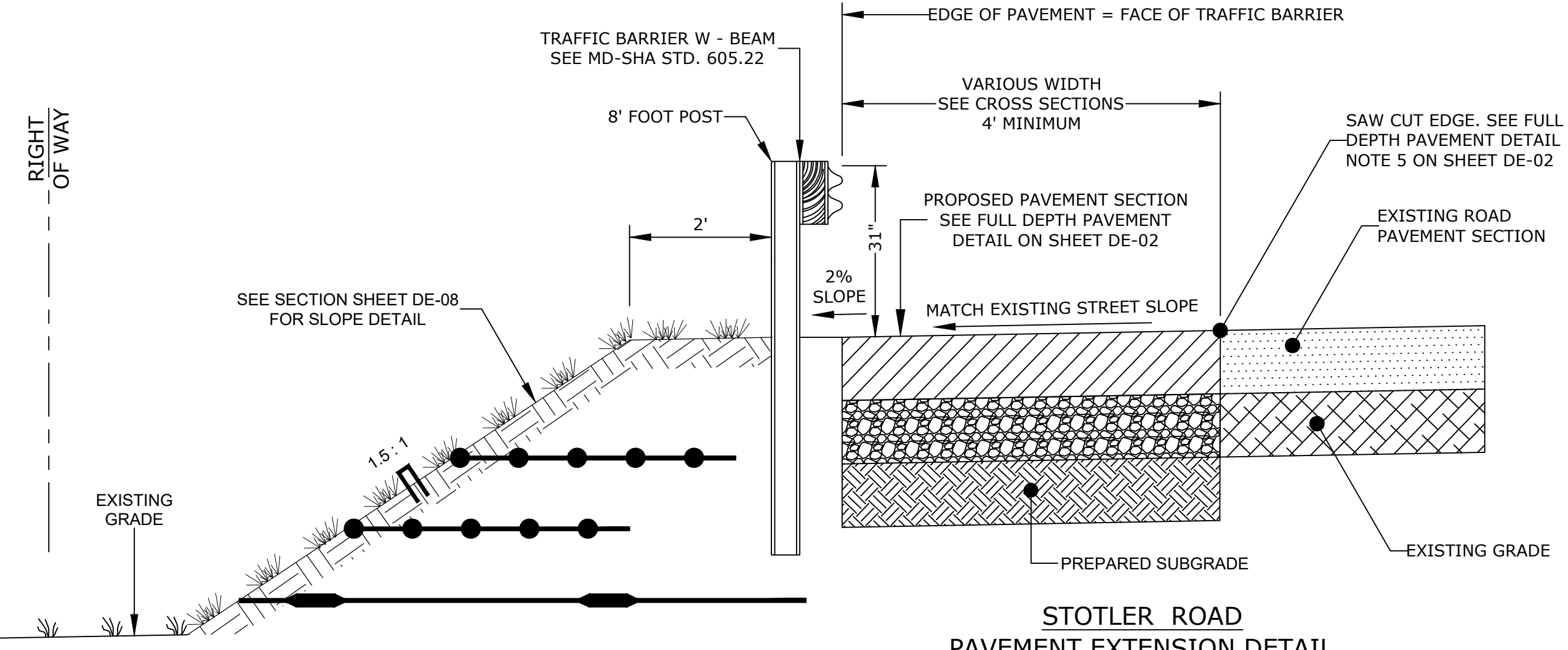
SCALE NONE
SECTION NO. DE-01
SHEET NO. 12 OF 48
PROJECT NO. 16-045



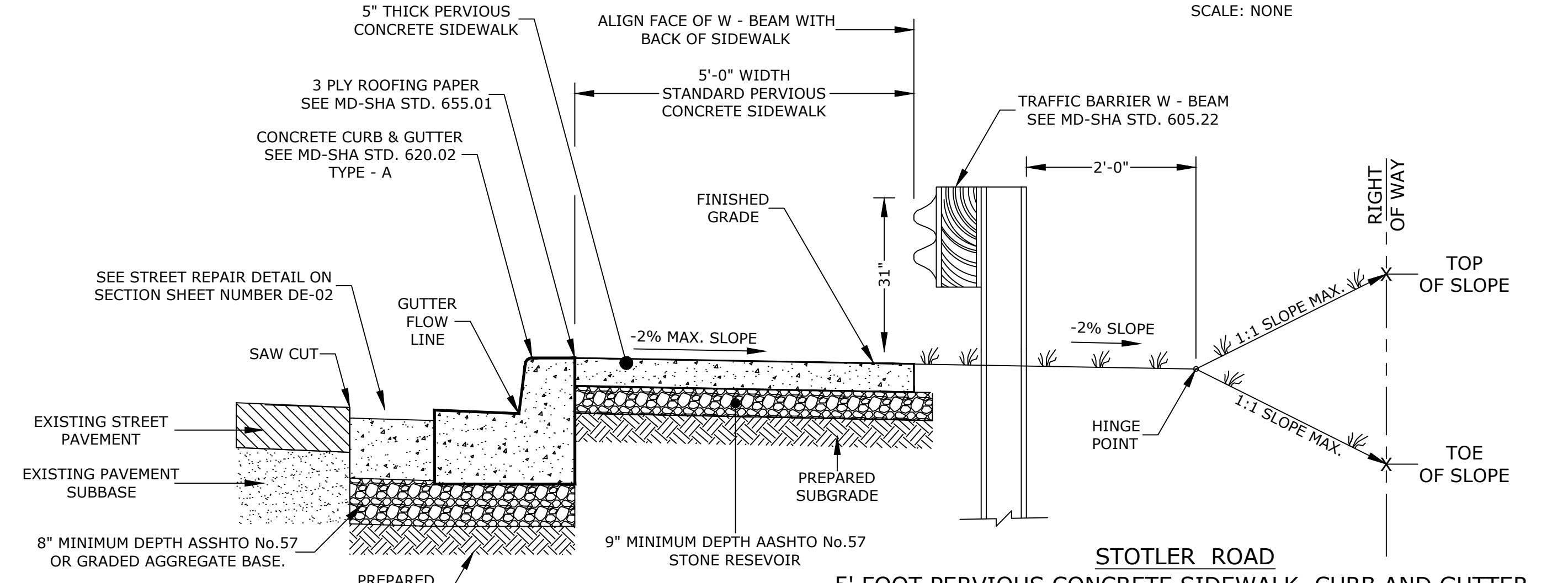
**STOTLER ROAD
PAVEMENT EXTENSION DETAIL
WITHOUT CONCRETE CURB AND GUTTER**
Sta. 12+85 @ "B" LT. To Sta. @ "B" LT. 14+75 AND
Sta. 18+00 @ "B" LT. To Sta. @ "B" LT. 18+50
SCALE: NONE



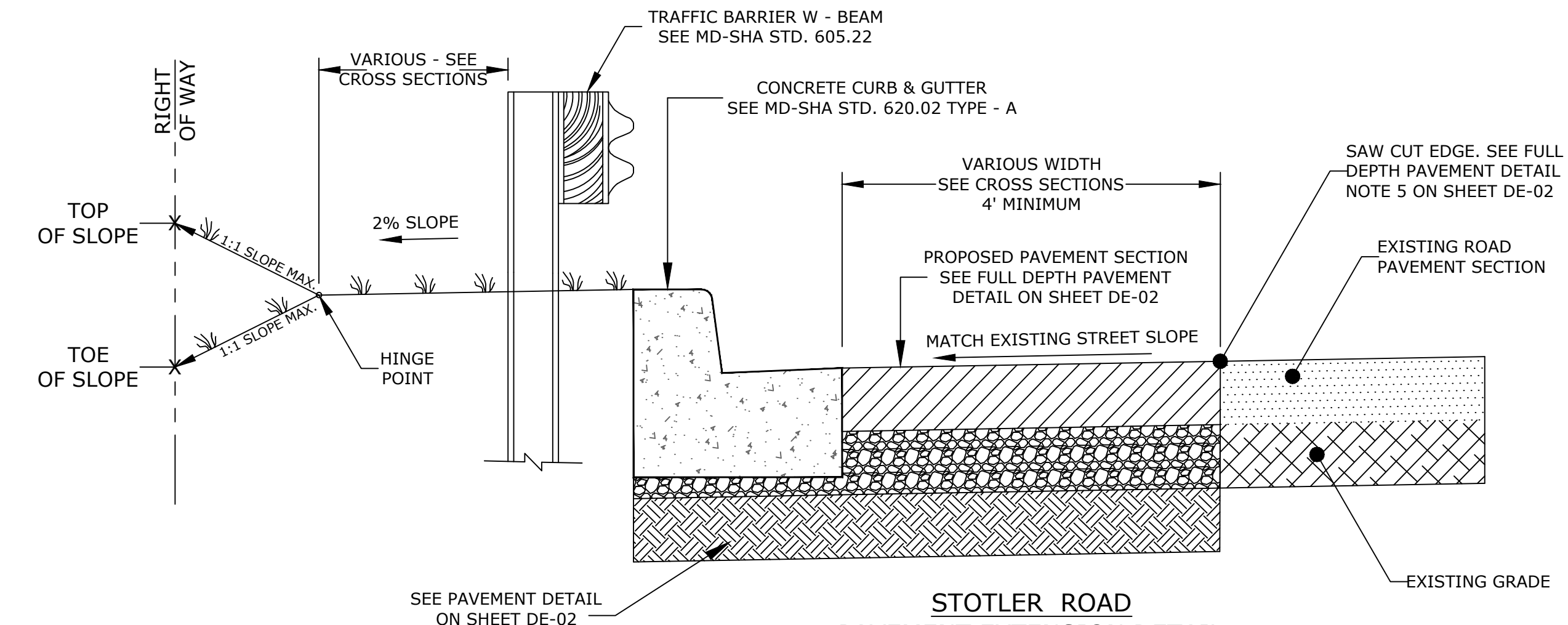
**STOTLER ROAD
5' FOOT PERVIOUS CONCRETE SIDEWALK, CURB AND
GUTTER, & STREET REPAIR WITHOUT TRAFFIC
BARRIER**
Sta. 16+43 To Sta. 23+36.7
SCALE: NONE



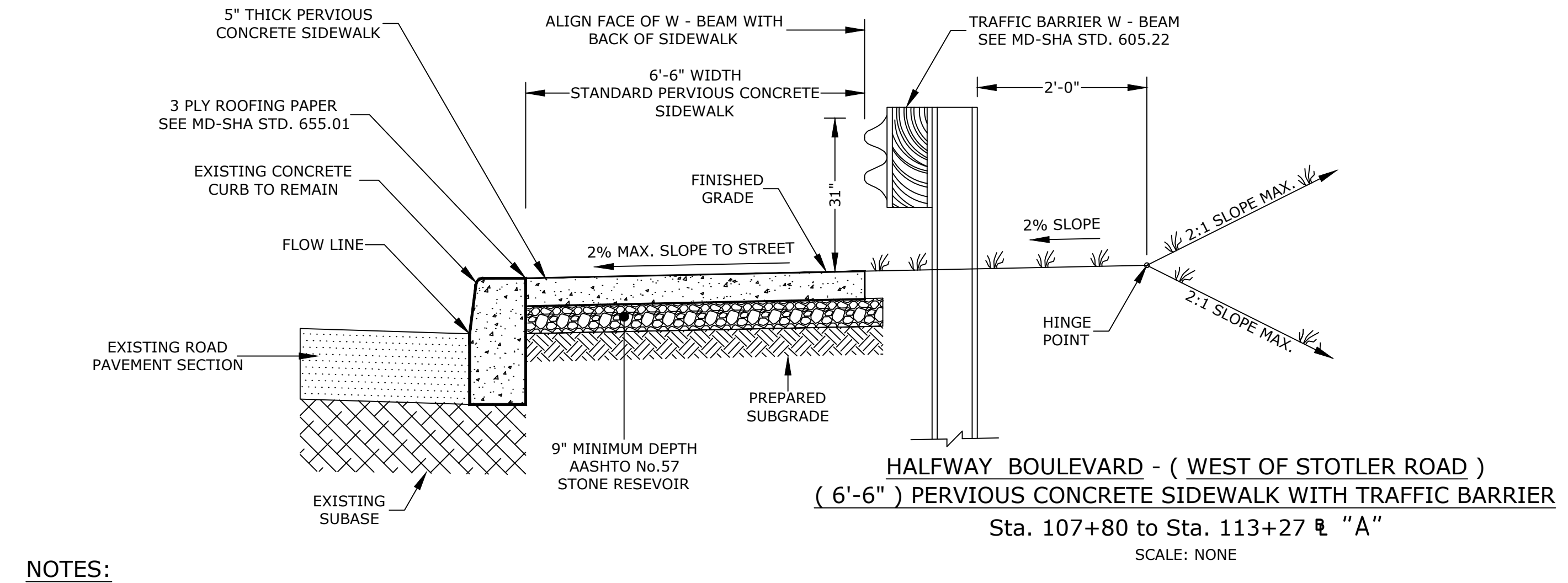
**STOTLER ROAD
PAVEMENT EXTENSION DETAIL
WITHOUT CONCRETE CURB AND GUTTER**
Sta. 14+75 @ "B" LT. To Sta. 18+00 @ "B" LT.
SCALE: NONE



**STOTLER ROAD
5' FOOT PERVIOUS CONCRETE SIDEWALK, CURB AND GUTTER,
& STREET REPAIR WITH TRAFFIC BARRIER**
Sta. 115+00 @ "A" To Sta. 16+43 @ "B"
SCALE: NONE



**STOTLER ROAD
PAVEMENT EXTENSION DETAIL
WITH CONCRETE CURB AND GUTTER**
Sta. 10+89 @ "B" LT. To Sta. 12+85 @ "B" LT.
SCALE: NONE



**HALFWAY BOULEVARD - (WEST OF STOTLER ROAD)
(6'-6") PERVIOUS CONCRETE SIDEWALK WITH TRAFFIC BARRIER**
Sta. 107+80 to Sta. 113+27 @ "A"
SCALE: NONE

NOTES:

1. CONCRETE FOR PERVIOUS SIDEWALK SHALL BE MARYLAND S.H.A. MIX NO. PC . ALL PERVIOUS SIDEWALK SHALL BE 6.5' FT. OR 5' FT. WIDE BY 5" DEEP AND SHALL BE PLACED ON A BED OF 9" MINIMUM DEPTH ASSHTO No. 57 CLEAN STONE.
2. ALL SIDEWALK SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE "AMERICANS WITH DISABILITIES ACT" (A.D.A.) REQUIREMENTS. REFER TO SECTION 4.3 FOR INFORMATION CONCERNING "ACCESSIBLE ROUTE".
3. THE CONCRETE CURB AND GUTTER PAN SLOPE SHALL BE 1/2" PER FOOT EXCEPT THROUGH SUPERELEVATED SECTIONS OR WHERE STREETS HAVE A FULL WIDTH CROSS SLOPE (NO CROWN). THEN THE GUTTER PAN ON THE HIGH SIDE OF THE STREET SHALL SLOPE TO MATCH THE ADJACENT PAVEMENT. THE CURB AND GUTTER PAN SHALL BE PLACED MONOLITHIC USING MIX 3 CONCRETE.
4. SUBGRADE TO BE UNCOMPACTED FOR AREAS DESIGNED AS INFILTRATION PRACTICES. FOR OTHER AREAS COMPACT AS SPECIFIED IN THE SPECIFICATIONS. FOR SOFT SOILS, INSTALL GEOGRID FOR GEOTECHNICAL ENGINEER RECOMMENDATIONS. INCLUDE CLASS PE TYPE III GEOTEXTILE BETWEEN STONE BASE AND SUBGRADE.
5. FOR SIDEWALK JOINT LAYOUT, REFER TO MD-SHA STANDARD No. 655.01
6. USE 6" PERFORATED DRAIN PIPE AT LOW POINT OF SIDEWALK WITHIN STONE ACROSS THE ENTIRE WIDTH OF THE SIDEWALK.

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK CONSTRUCTION\5 DE - DETAILS\28-281 DE.DWG Last Saved: 10/5/2022 12:58 PM

NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: PJM
DRAWN BY: GLJ
CHECKED BY: PJM, SH
DATE: 09-15-22

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 240-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL &
SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
DETAILS

SCALE: NONE

SECTION NO. DE-05

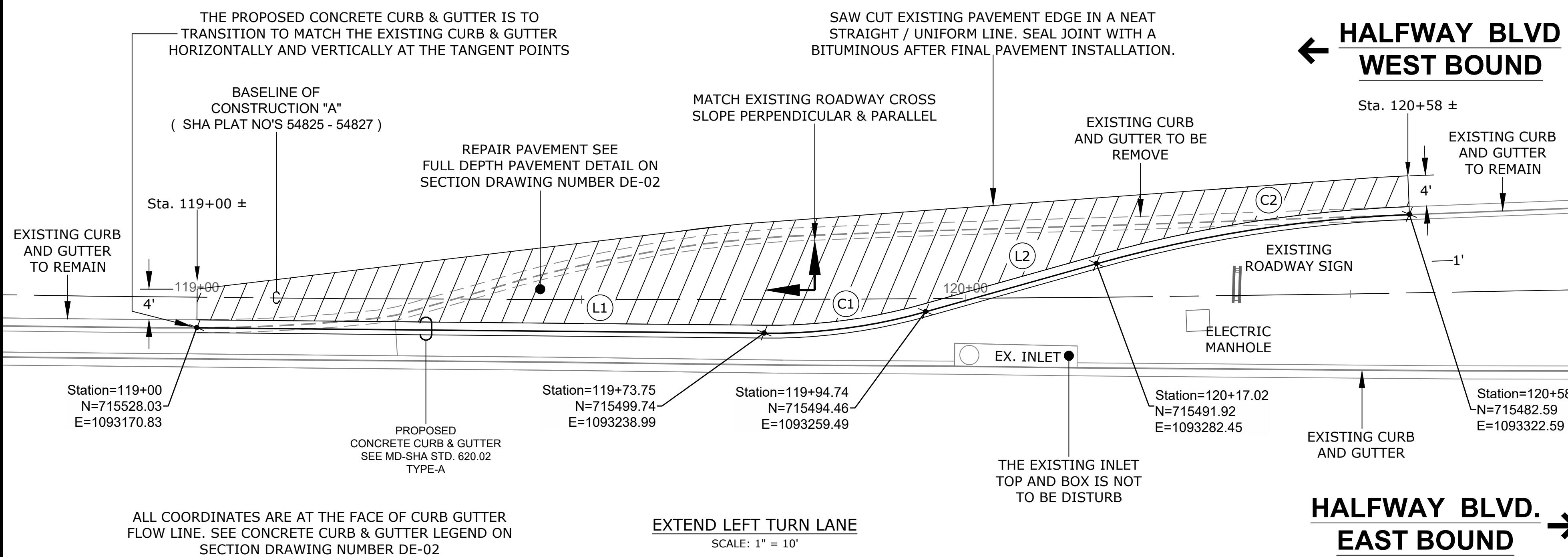
SHEET NO. 16 OF 48

PROJECT NO. 16-045

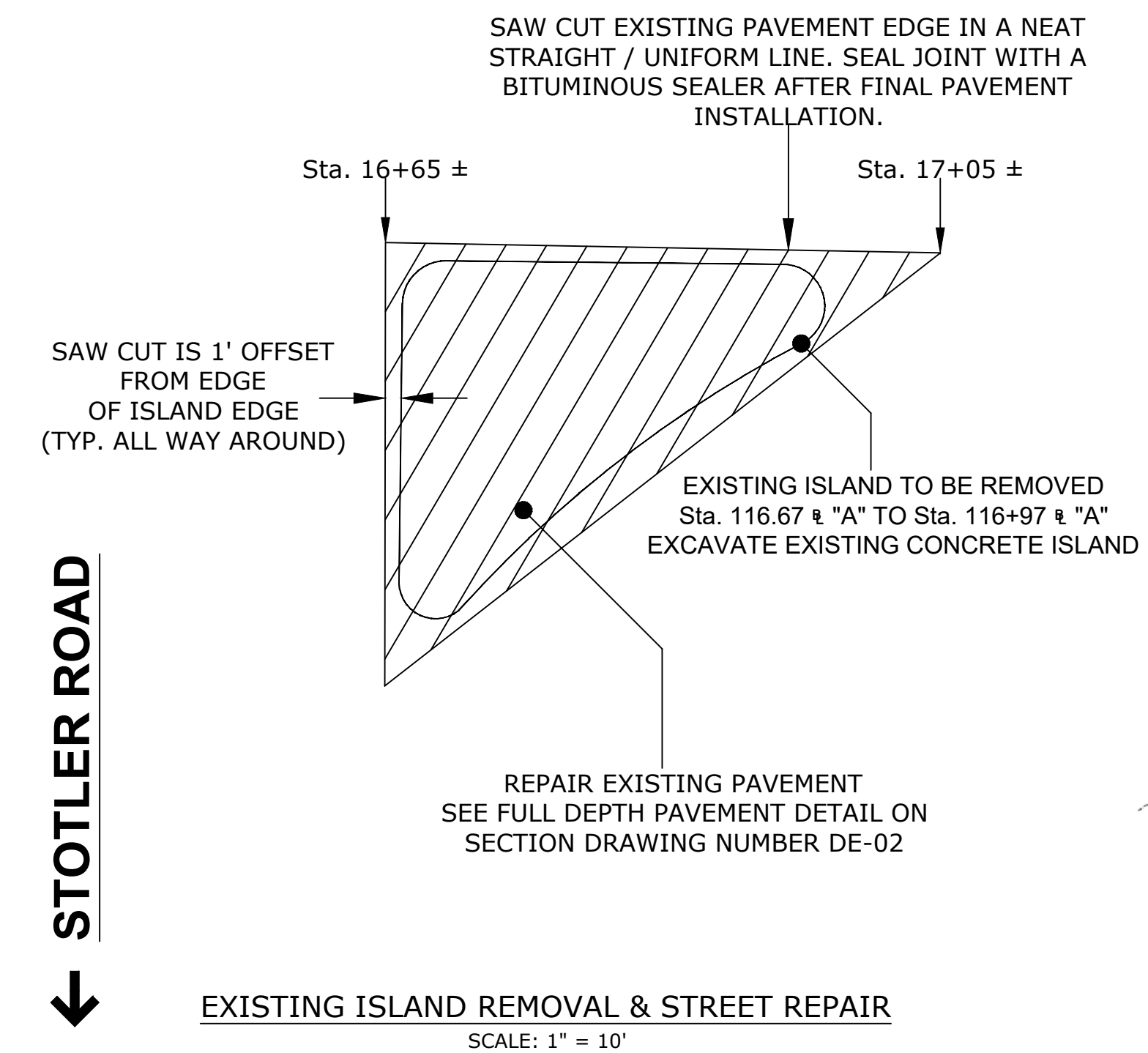
K:\CADD\28-281 STOTTLER ROAD ADA SIDEWALK\CONSTRUCTION\5 DE - DETAILS\28-281 DE.DWG Last Saved: 10/5/2022 12:59 PM

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	73.80	S67°27'22"E
L2	23.09	S83°41'00"E

CURVE DATA TABLE						
CURVE #	RADIUS	ARC LENGTH	DC	DELTA	TANGENT	CORD LENGTH
C1	75.00	21.24	S75° 34' 11.12"E	016°13'37"	10.69	21.17
C2	175.00	41.31	S76° 55' 16.95"E	013°31'26"	20.75	41.21



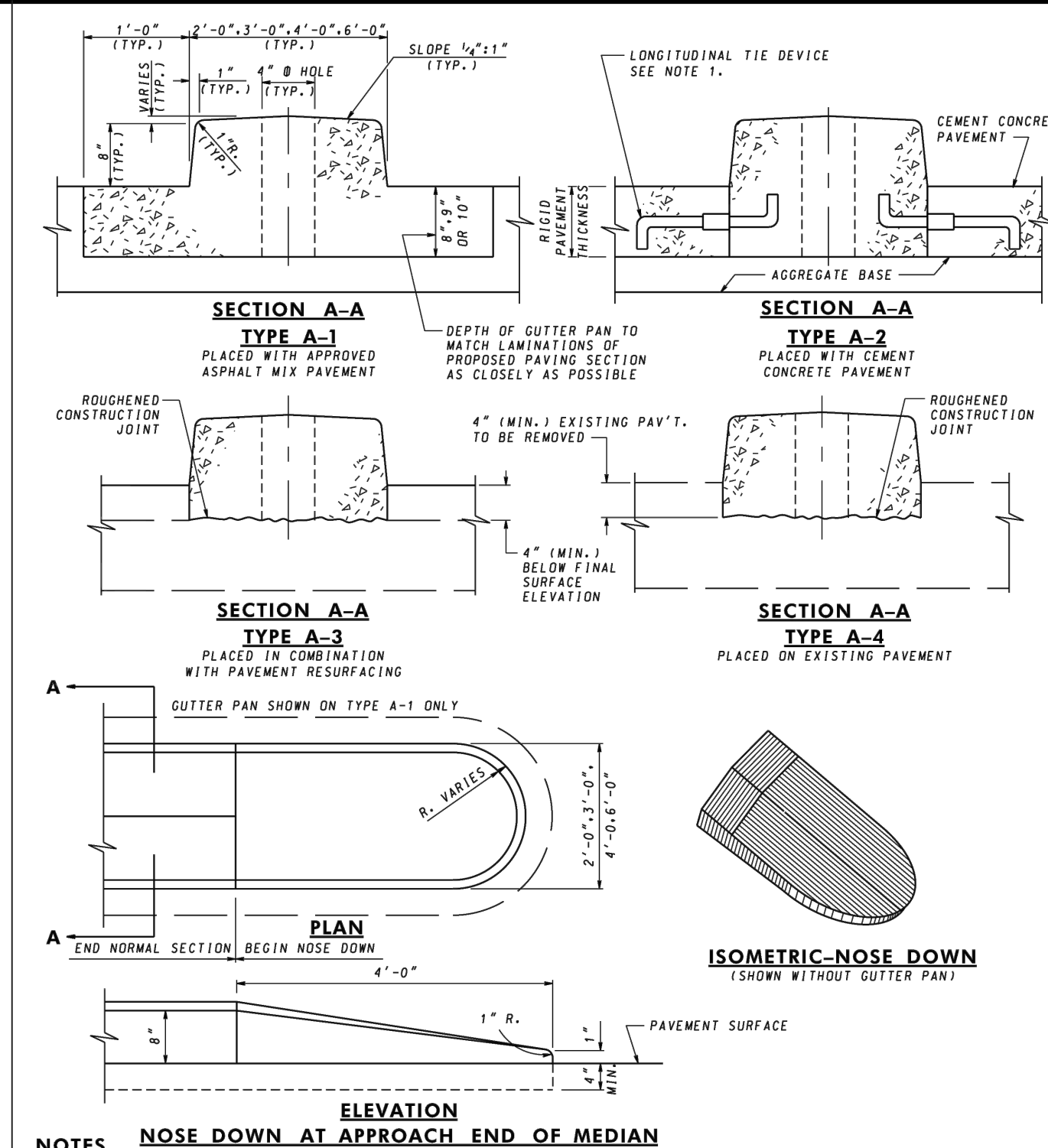
← **HALFWAY BLVD** →



← **STOTTLER ROAD** →

← **HALFWAY BLVD WEST BOUND**

HALFWAY BLVD. EAST BOUND →



- NOTES**
- UNLESS OTHERWISE SPECIFIED, LONGITUDINAL TIE BAR DEVICE, TYPE "A" OR TYPE "B", PLACED AT MIDDLE OF KEYWAY & SPACED ACCORDING TO SPECIFICATIONS FOR CONCRETE PAVEMENT SHALL BE USED AT CONSTRUCTION JOINT BETWEEN MONOLITHIC CONCRETE MEDIAN (OR GUTTER PAN) AND CONCRETE PAVEMENT. SEE STANDARD MD 572-61. SOLID BAR AND SLEEVE MAY BE REPLACED BY TUBE WITH INTERNAL THREAD.
 - JOINT SPACING WILL BE A MAXIMUM OF 10'-0" APART. SEE SPECIFICATIONS FOR LOCATION AND DESCRIPTION OF TREATMENT FOR THE TYPES OF JOINTS USED. CONCRETE PAVEMENT, JOINTS SHALL MATCH PAVEMENT JOINTS.
 - ALLOW 4" Ø HOLES IN MEDIAN FOR SIGNS, SPACED AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

SPECIFICATION: 602 CATEGORY CODE: ITEMS

APPROVED: [Signature]

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STANDARD MONOLITHIC CONCRETE MEDIAN TYPE 'A'

STANDARD NO. MD 645.01

DATE	
BY	
REVISION DESCRIPTION	
NO.	
DESIGNED BY: P.J.M.	
DRAWN BY: C.L.J.	
CHECKED BY: P.J.M./S.H.	
DATE: 09-15-22	

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building 747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 250-313-2660 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS STOTTLER RD. & HALFWAY BLVD. DETAILS

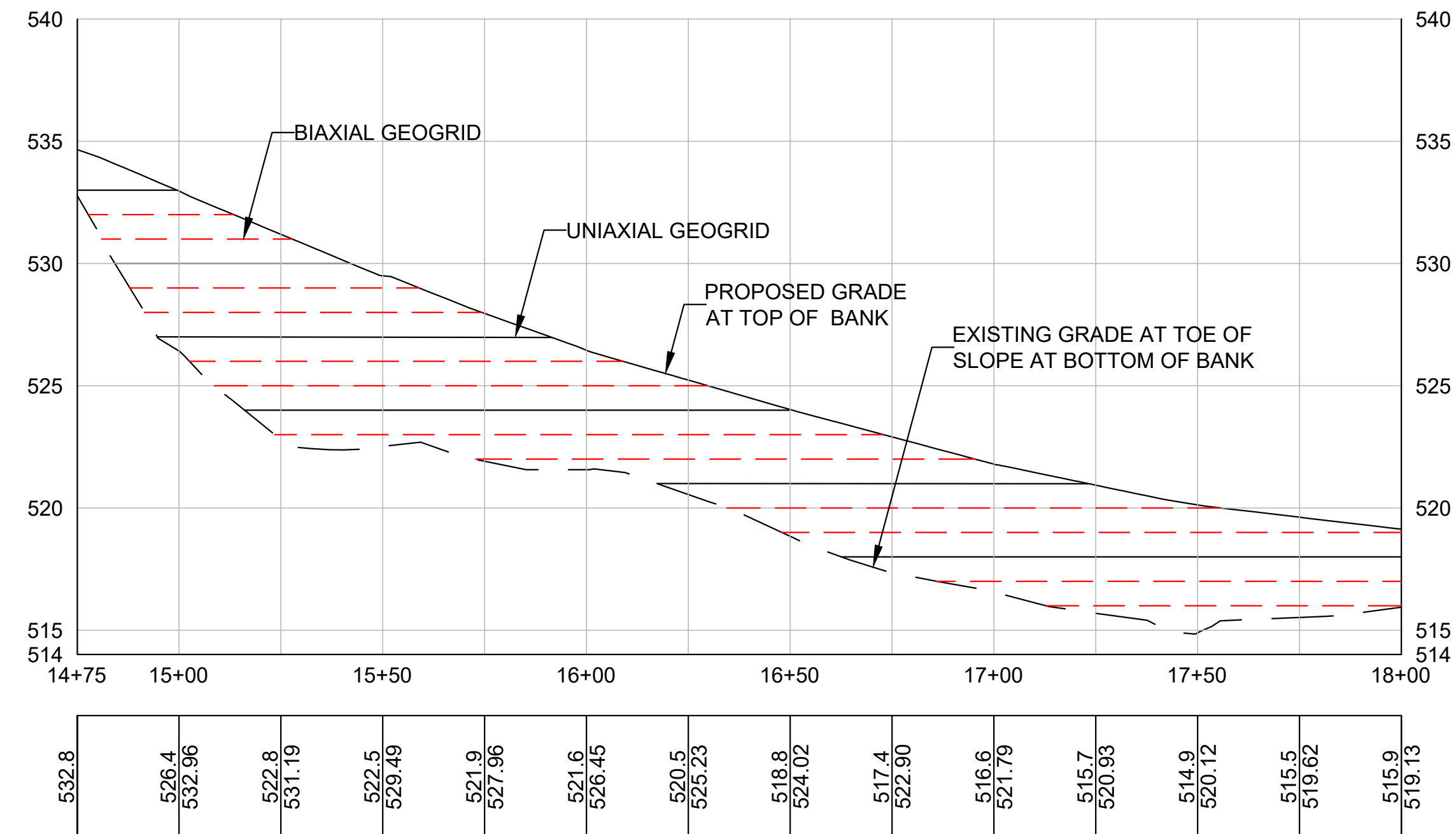
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SECTION NO. DE-07

SHEET NO. 18 OF 48

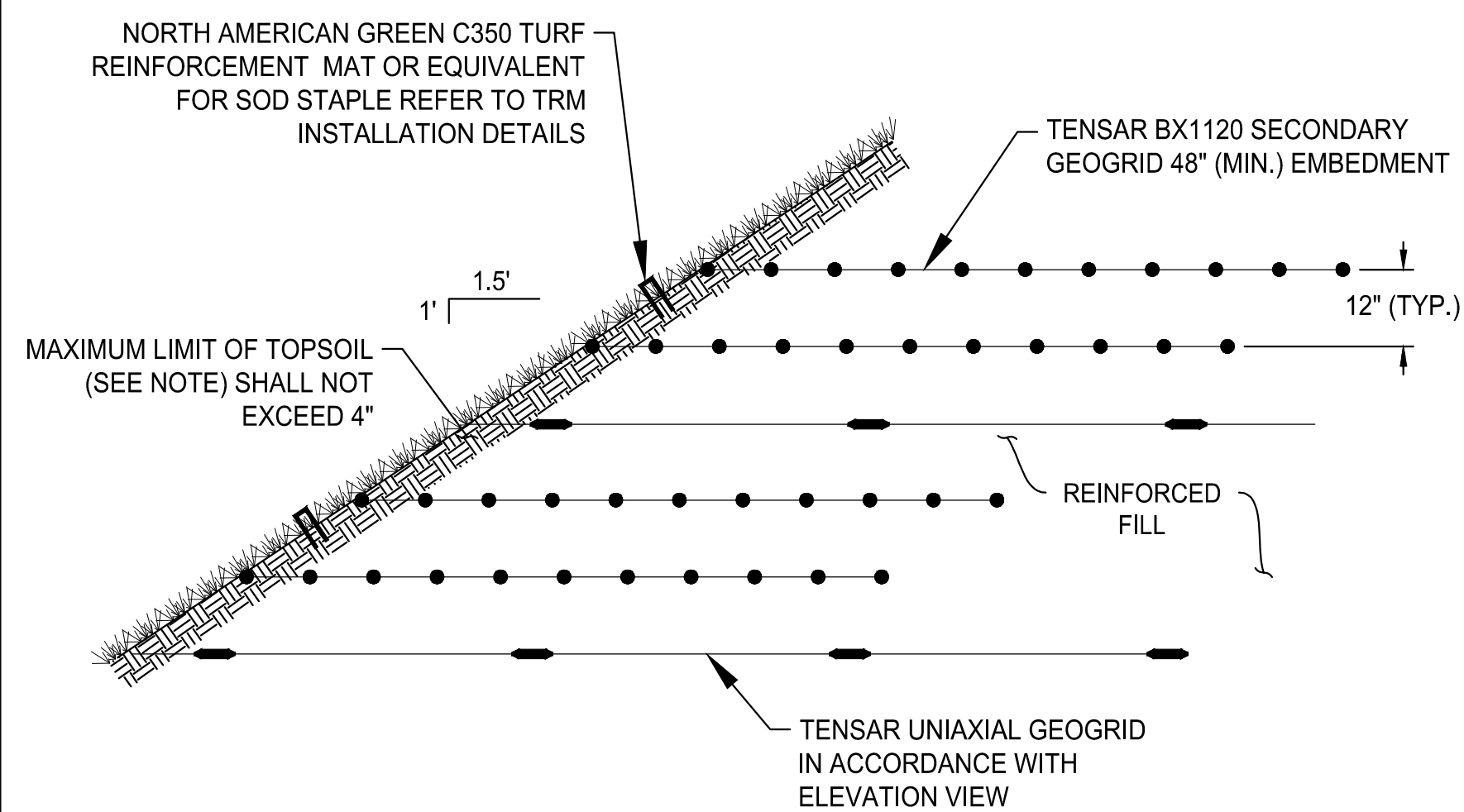
PROJECT NO. 16-045

K:\CADD\28-281 STOTTLER ROAD ADA SIDEWALK\CONSTRUCTION\5 DE - DETAILS\DETAIL SHEET 08.DWG Last Saved: 9/30/2022 2:51 PM



REINFORCE SLOPE
(PROFILE STATION EQUALS STOTTLER ROAD BASELINE STATION)

SCALE: HORIZONTAL 1"=30
VERTICAL: 1"=5"



NOTE:

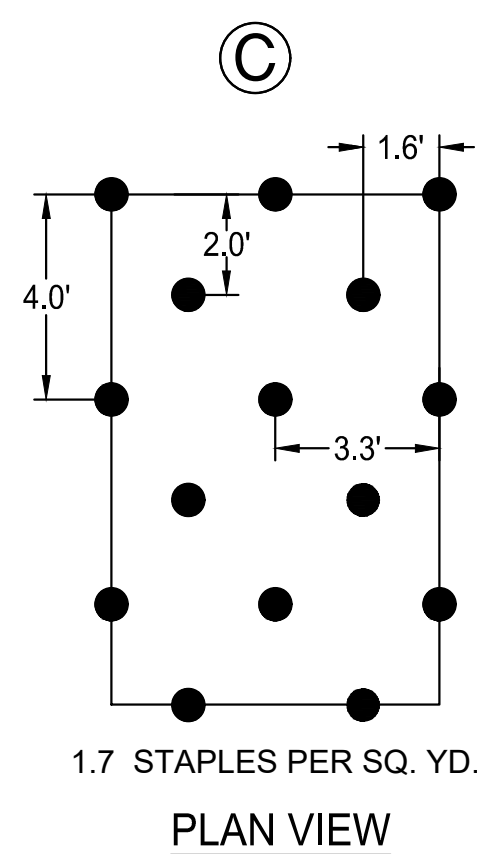
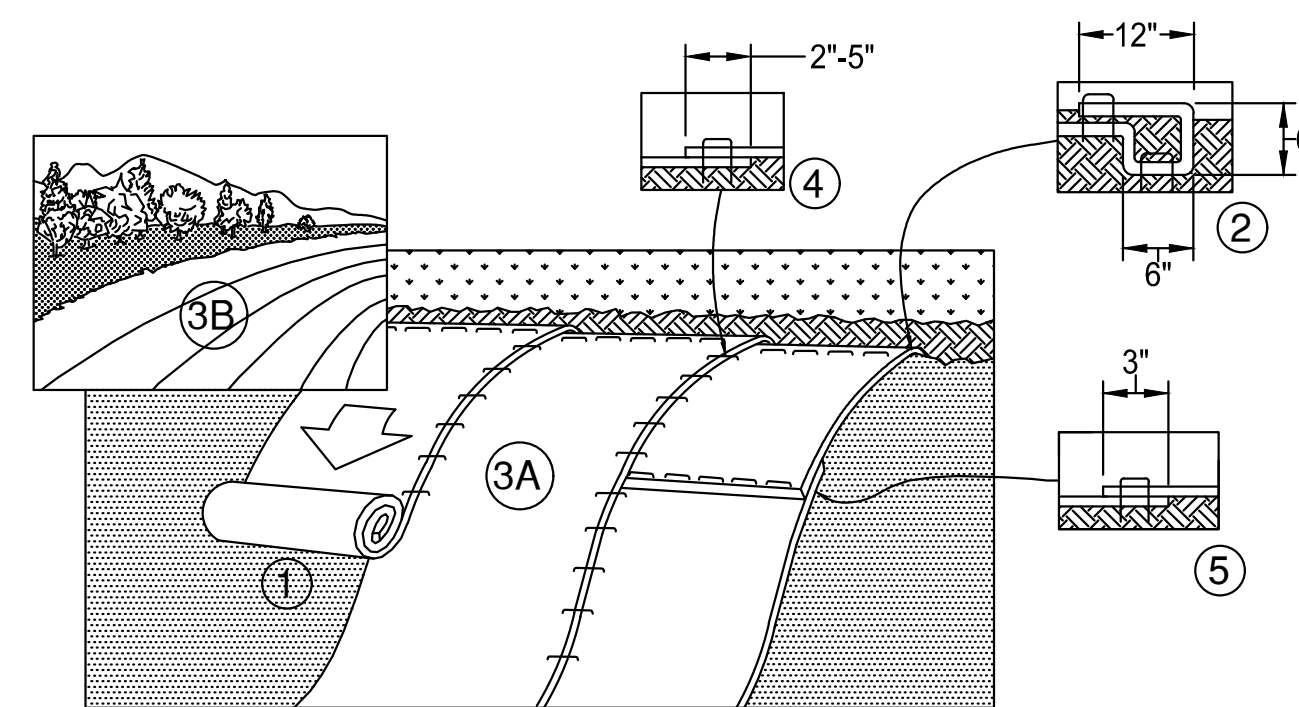
TOPSOIL SHALL BE LOAMY SAND OR FINER GRADATION WITH 10% - 15% ORGANIC CONTENT OR MATERIAL APPROVED BY A QUALIFIED LANDSCAPE ARCHITECT. HYDROSEEDING ON TOP OF EROSION CONTROL PRODUCT MAY RESULT IN POOR VEGETATION ESTABLISHMENT. VEGETATION TYPE SHALL BE SPECIFIED BY A QUALIFIED LANDSCAPE ARCHITECT.

CROSS-SECTION

GRADED SIERRA SLOPE DETAIL

NOT TO SCALE

OR APPROVED EQUAL



NOTES:

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECPS BACK OVER SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECPS.
- ROLL THE RECPS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECPS TYPE.
- CONSECUTIVE RECPS SPliced DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECPS WIDTH.

NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECPS.

> 1H:1V TURF REINFORCEMENT INSTALLATION

NOT TO SCALE

NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: P.J.M.
DRAWN BY: G.L.J.
CHECKED BY: P.J.M./S.H.
DATE: 09-15-22

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 240-313-2460 Fax: 240-313-2401



INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS STOTTLER RD. & HALFWAY BLVD. REINFORCED SLOPE DETAILS



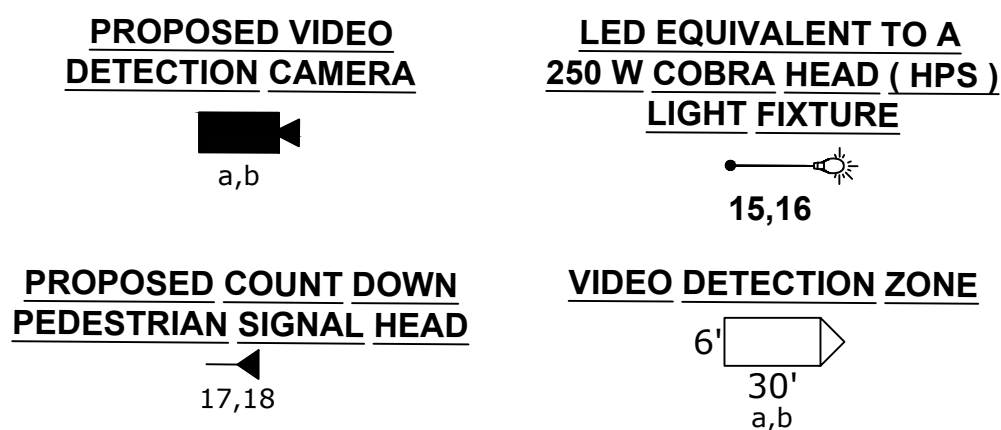
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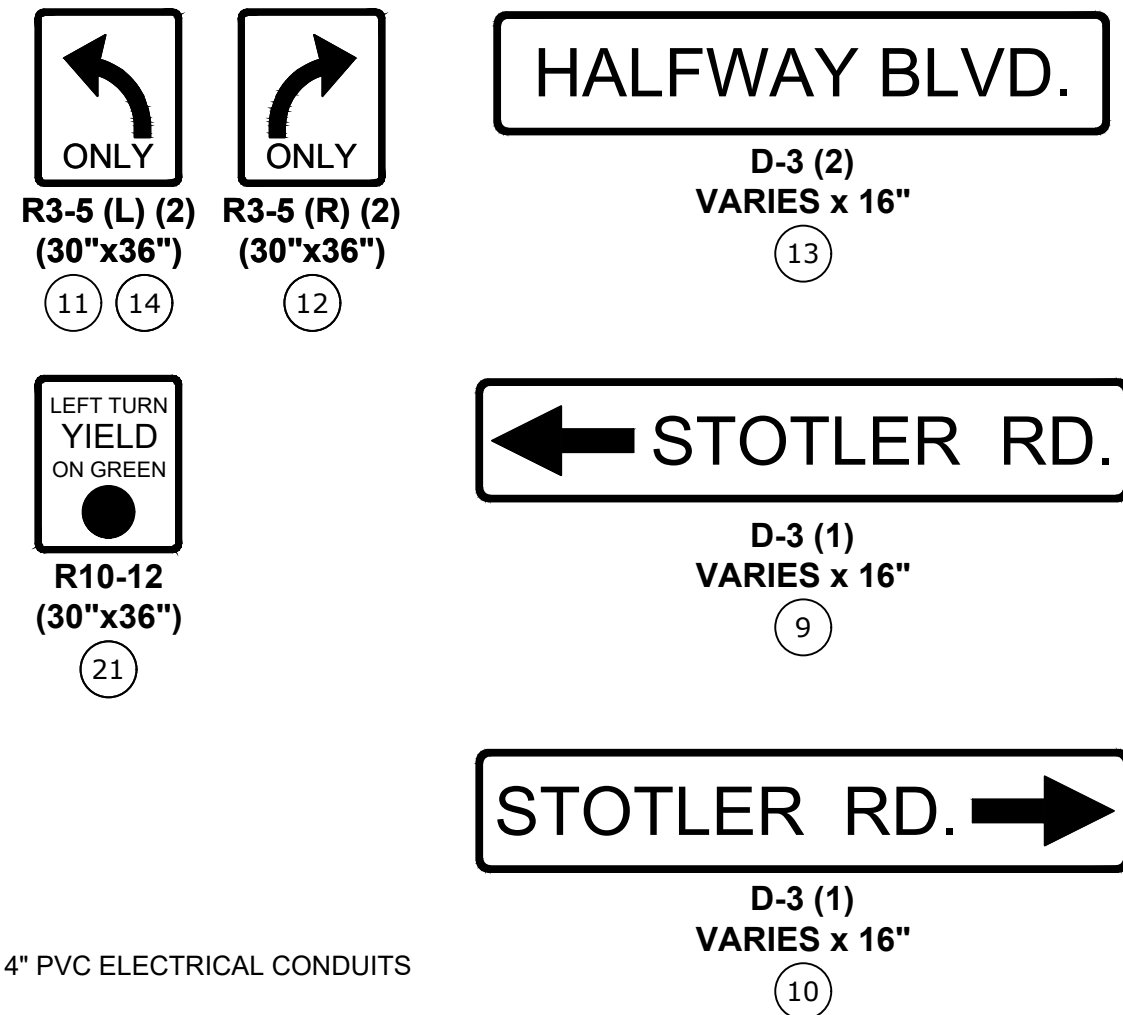
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PROJECT NO. 16-045

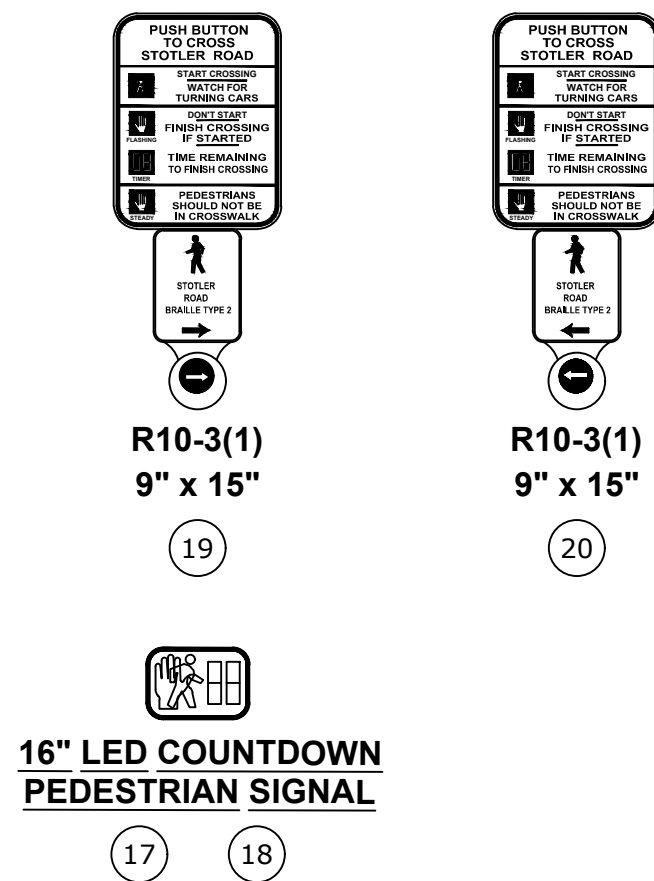
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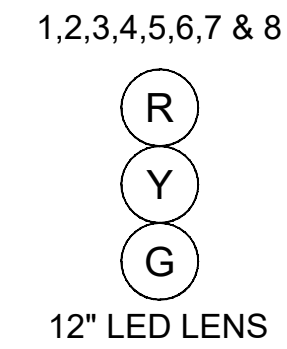
SIGNS



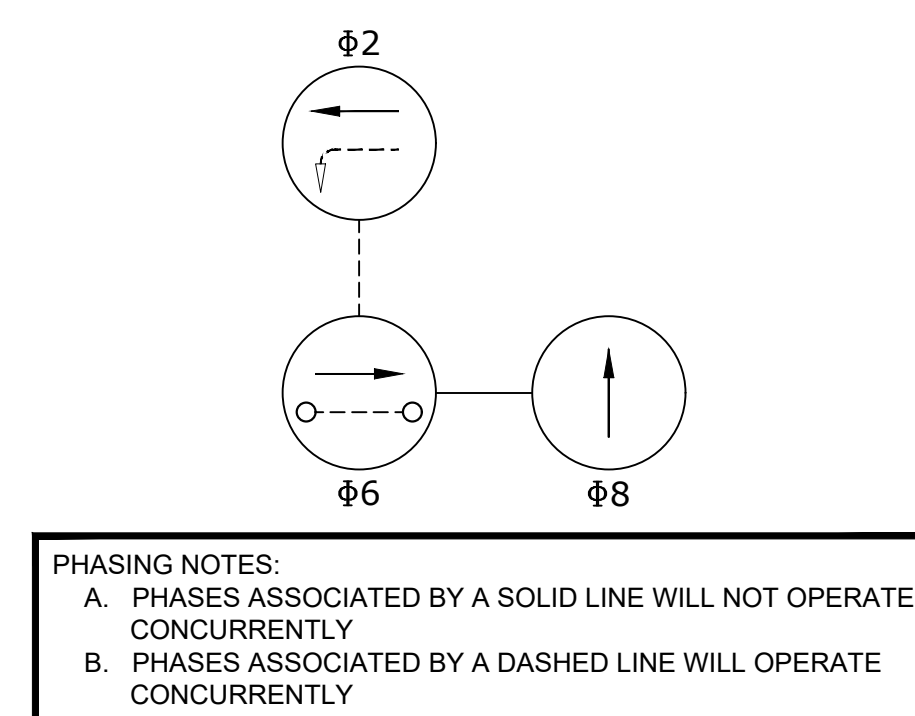
PROPOSED AUDIBLE SIGNS



LED SIGNALS



NEMA PHASING

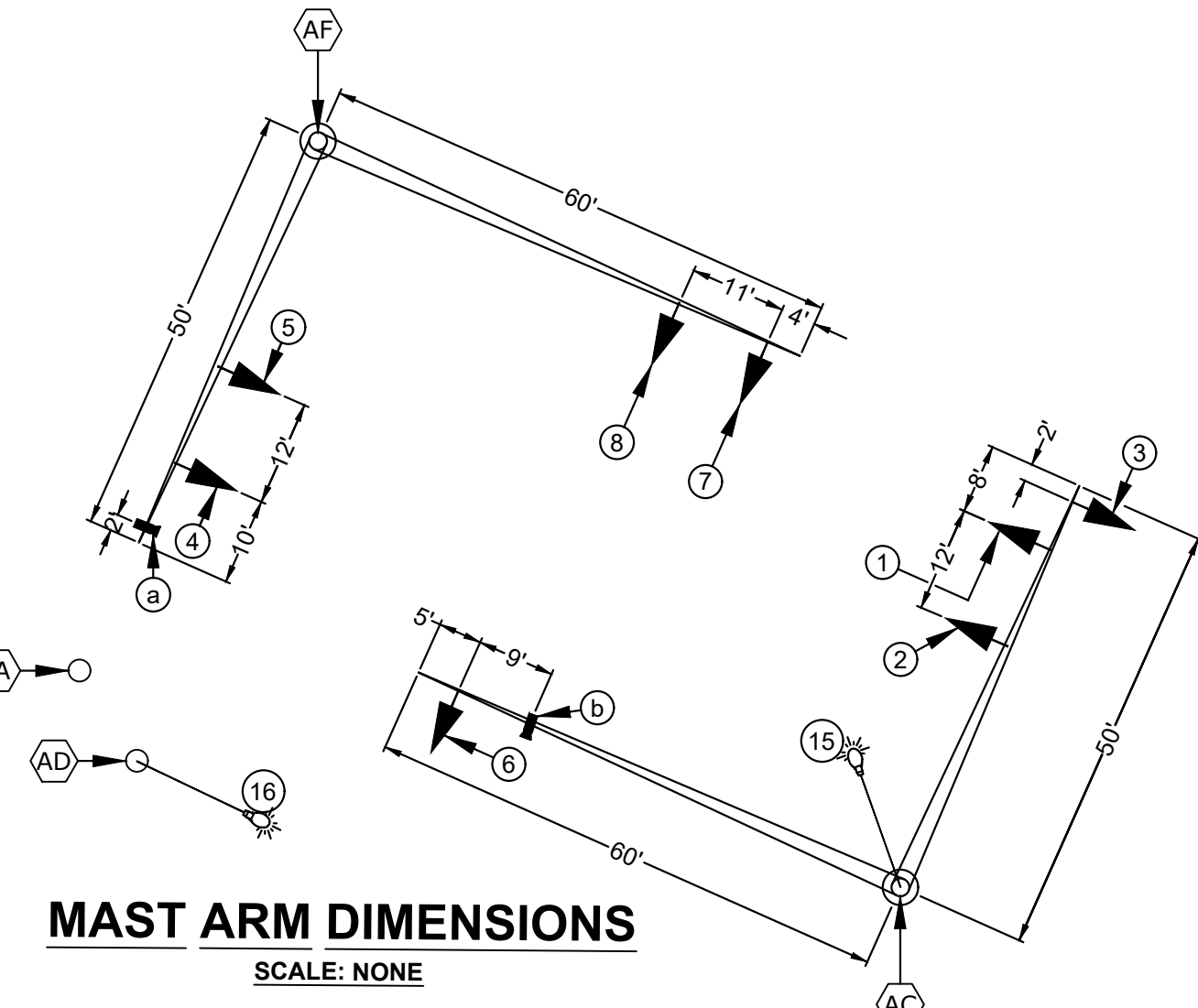
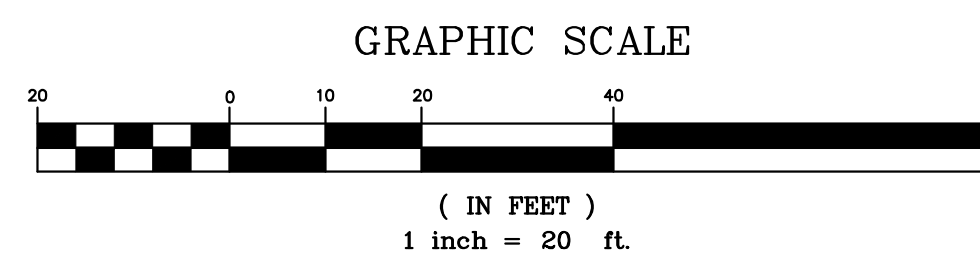
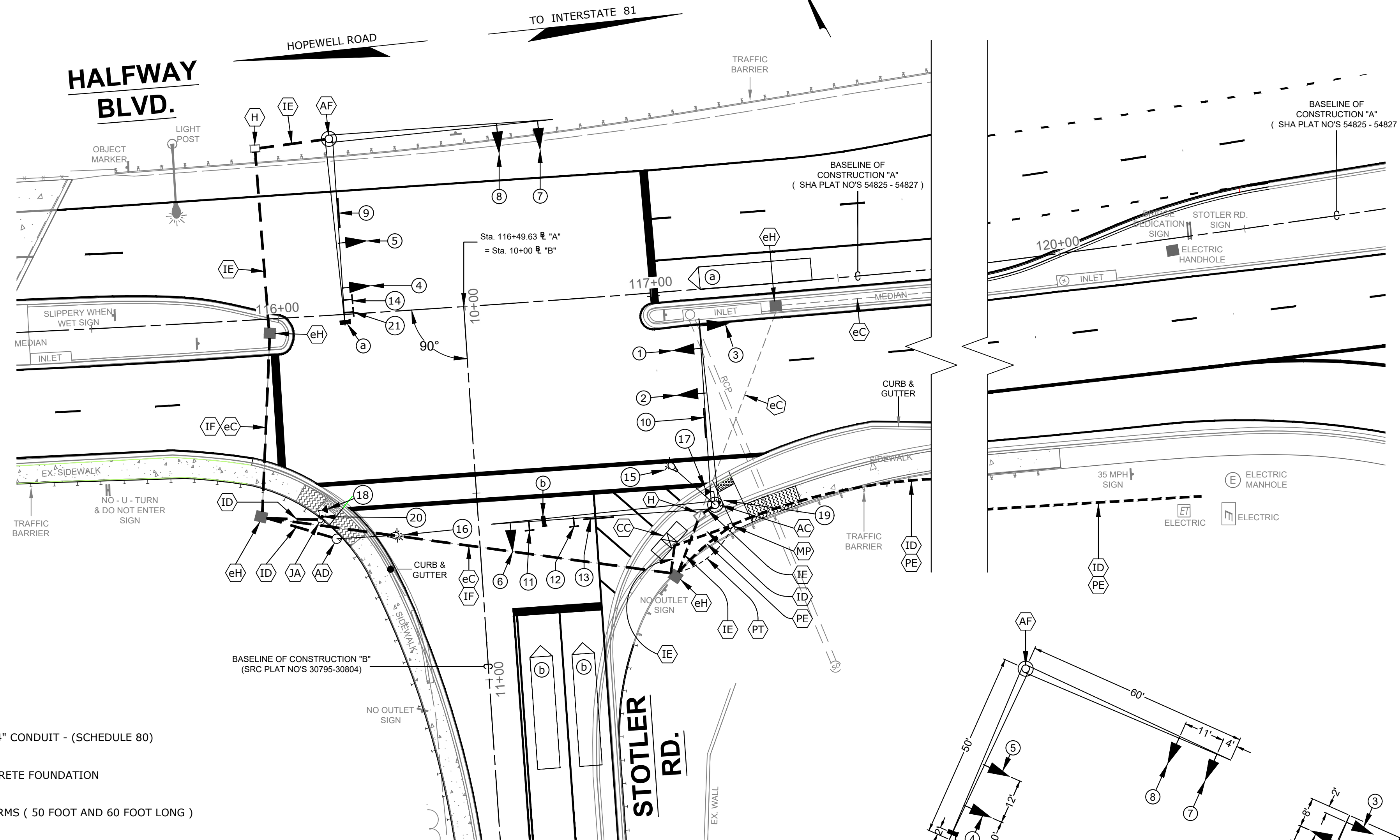


CONSTRUCTION NOTES

1. CONSTRUCT A NEW CONCRETE MAST ARM POLE FOUNDATION WITH (2) - 4" PVC ELECTRICAL CONDUITS (SCHEDULE 80) IN THE FOUNDATION. (Sta. 116+16.50 ± @ 47.15 ± FT. LEFT)
2. INSTALL 27 FOOT STEEL TWIN MAST ARM POLE ON AN NEW CONCRETE FOUNDATION (SEE NOTE 1 ABOVE) WITH TWIN MAST ARMS (50 FOOT AND 60 FOOT LONG), TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, OPTICOM DETECTION EYE, AND SIGNS MOUNTED ON MAST ARM.
3. CONSTRUCT A NEW CONCRETE MAST ARM POLE FOUNDATION WITH (2) - 4" PVC ELECTRICAL CONDUITS (SCHEDULE 80) IN THE FOUNDATION. (Sta. 117+12 ± @ 57.75 ± FT. RIGHT). THE FOUNDATION LOCATION MUST MEET THE LATEST REQUIREMENTS OF MD-MUTC AND NCHRP ADA PUBLICATIONS. EXACT LOCATION WILL BE FIELD APPROVED BY THE COUNTY ENGINEER.
4. INSTALL 27 FOOT STEEL SINGLE MAST ARM POLE ON AN CONCRETE FOUNDATION (SEE NOTE 3 ABOVE) WITH TWIN MAST ARMS (50 FOOT AND 60 FOOT LONG), TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, OPTICOM DETECTION EYE, COUNTDOWN PEDESTRIAN SIGNAL HEAD (17), AUDIBLE / TACTILE PEDESTRIAN PUSH BUTTON WITH A VIBRATING ARROW POINTING RIGHT AND A R10-3 (1) (19) SIGN ALL MOUNTED ON THE MAST ARM POLE. (THE (R10-3) (1) SIGN TO READ "PUSH BUTTON TO CROSS STOTLER ROAD"). INSTALL 20 FOOT STREET LIGHTING ARM WITH LED LUMINAIR.
5. CONSTRUCT ONE NEW CONCRETE PEDESTRIAN POLE FOUNDATIONS WITH (1) - 2" PVC ELECTRICAL CONDUIT AND BREAKAWAY BASE (MD-SHA STANDARD No. 821.01-01) TO BE INSTALLED. THE FOUNDATION LOCATION MUST MEET THE LATEST REQUIREMENTS OF MD-MUTC AND NCHRP ADA PUBLICATIONS. EXACT LOCATION WILL BE FIELD APPROVED BY THE COUNTY ENGINEER. (Sta. 116+07.88± @ 54.50± FT. RIGHT)
6. INSTALL A 10 FOOT STEEL PEDESTAL POLE ON A BREAKAWAY BASE (Sta. 116+07.88± @ 54.50± FT. RIGHT ±) (MD-SHA STD. No. 821.01-01) ON A CONCRETE FOUNDATION (SEE NOTE 5 ABOVE) WITH A COUNTDOWN PEDESTRIAN SIGNAL HEAD (18), AUDIBLE / TACTILE PEDESTRIAN PUSH BUTTON WITH A VIBRATING ARROW POINTING LEFT AND A R10-3 (1) SIGN ALL MOUNTED ON THE POLE. (THE R10-3 (1) SIGN (20) TO READ "PUSH BUTTON TO STOTLER ROAD BOULEVARD".)
7. INSTALL NEW S-CABINET (STCA1509) BASE MOUNT CONTROLLER AND CABINET ON A NEW CONCRETE PAD WITH AVAILABLE CONDUITS. EXACT LOCATION WILL BE FIELD APPROVED BY THE COUNTY ENGINEER.
8. INSTALL EMBEDDED METER SERVICE PEDESTAL (MD-SHA STANDARD 807.07-01) WITH (1) - 4" SCHEDULE 80 PVC CONDUIT WITH 90 DEGREE BENDS IN PEDESTAL BASE.
9. CONSTRUCT ONE NEW CONCRETE LIGHTING STRUCTURE FOUNDATION (MD-SHA STANDARD No. 801-02) WITH (1) - 2" PVC ELECTRICAL CONDUIT TO BE INSTALLED. THE FOUNDATION LOCATION MUST MEET THE LATEST REQUIREMENTS OD MD-MUTC. EXACT LOCATION WILL BE FIELD APPROVED BY THE COUNTY ENGINEER. (Sta. 116+11.95± @ 59.74± FT. RIGHT)
10. INSTALL A 30 FOOT STEEL LIGHTING STRUCTURE POLE (MD-SHA STANDARD No. 801-01) WITH BRACKET ARM ON THE NEW CONCRETE FOUNDATION (SEE NOTE 9 ABOVE). INSTALL A 20 FOOT LIGHTING ARM WITH A LED LUMINAIRE.
11. INSTALL ELECTRIC HANDHOLE

LEGEND

- MP = NEW CONCRETE METER PAD AND ELECTRIC METER PEDESTAL
- eh = EXISTING HANDHOLE
- CC = NEW S-CABINET (STCAB1509) BASE MOUNT CONTROLLER AND CABINET ON A NEW CONCRETE PAD
- ID = NEW 1-2" CONDUIT - (SCHEDULE 80)
- IE = NEW (2) - 4" CONDUIT - (SCHEDULE 80)
- eC = EXISTING (1)-4" CONDUIT - (SCHEDULE 80) WITH PULL STRING OR CABLES
- H = NEW HANDHOLE
- PE = NEW UNDERGROUND ELECTRIC SERVICE - 1-4" CONDUIT - (SCHEDULE 40)
- JA = NEW 10 FOOT PEDESTAL POLE ON NEW CONCRETE FOUNDATION
- AF = 27 FOOT MAST ARM POLE WITH TWIN MAST ARMS (50 FOOT AND 60 FOOT LONG)
- AC = 27 FOOT MAST ARM POLE WITH TWIN MAST ARMS (50 FOOT AND 60 FOOT LONG)
- PT = NEW UNDERGROUND TELEPHONE SERVICE
- IF = NEW (1) - 4" CONDUIT - (SCHEDULE 80)
- AD = NEW 30 FOOT LIGHTING STRUCTURE ON NEW CONCRETE FOUNDATION



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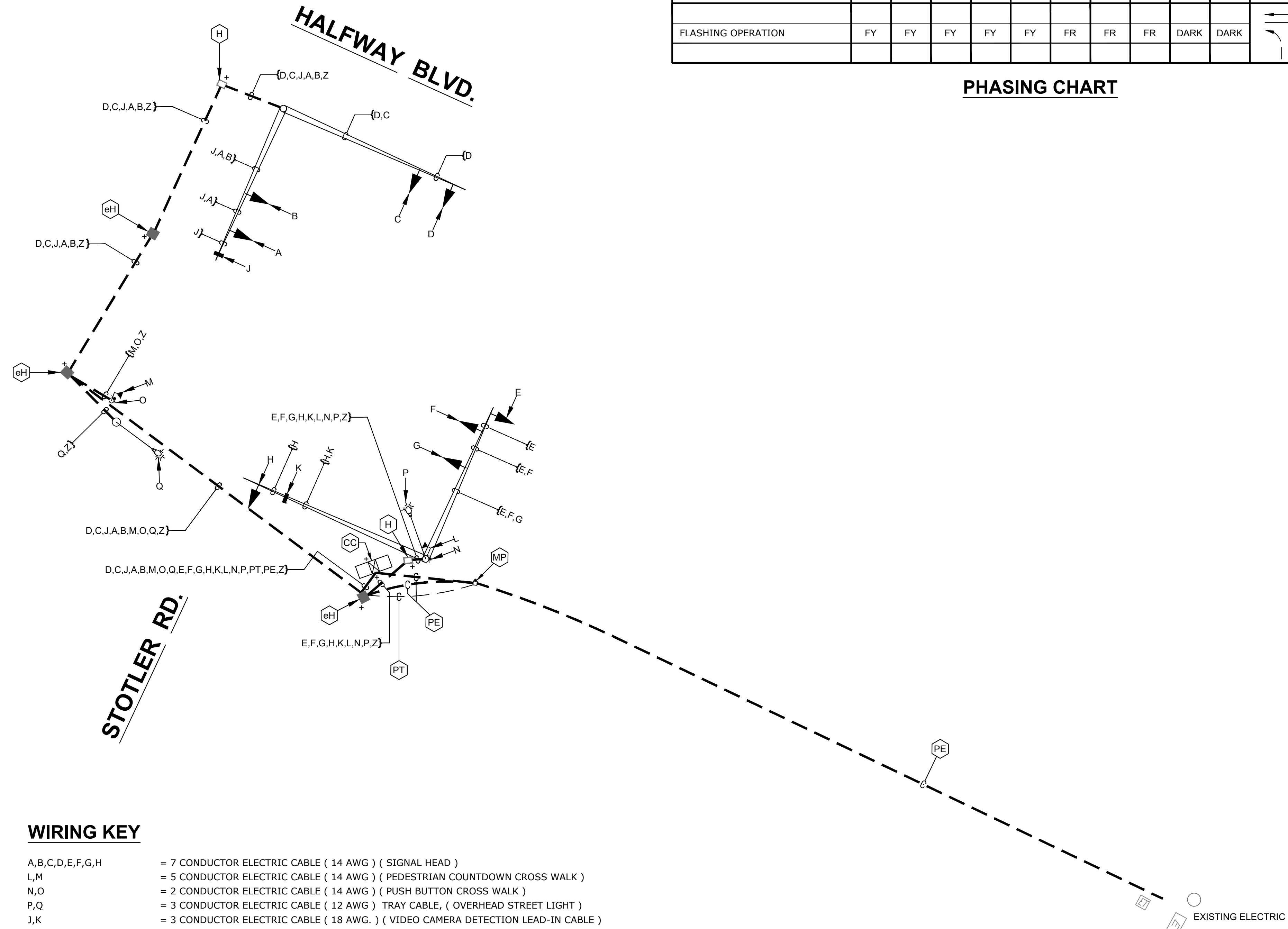
WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 240-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
TRAFFIC SIGNAL - PLAN SHEET

SCALE
1" = 20'
SECTION NO.
SG - 01
SHEET NO.
20 OF 48
PROJECT NO.
16-045

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WIRING KEY

- A,B,C,D,E,F,G,H = 7 CONDUCTOR ELECTRIC CABLE (14 AWG) (SIGNAL HEAD)
- L,M = 5 CONDUCTOR ELECTRIC CABLE (14 AWG) (PEDESTRIAN COUNTDOWN CROSS WALK)
- N,O = 2 CONDUCTOR ELECTRIC CABLE (14 AWG) (PUSH BUTTON CROSS WALK)
- P,Q = 3 CONDUCTOR ELECTRIC CABLE (12 AWG) TRAY CABLE, (OVERHEAD STREET LIGHT)
- J,K = 3 CONDUCTOR ELECTRIC CABLE (18 AWG.) (VIDEO CAMERA DETECTION LEAD-IN CABLE)
- Z = STRANDED BARE COPPER GROUND WIRE (6 AWG)
- PE = UNDERGROUND ELECTRIC SERVICE - 3 WIRE, 1 CONDUCTOR (4 AWG)
- PT = UNDERGROUND TELEPHONE SERVICE WITH 1 COMMUNICATION CABLE (4 AWG)
- + = 3/4" INCH X 10 FOOT GROUNDING ROD WITH 6 GAUGE SOLID COPPER WIRE TO THE HANDHOLE FRAME
- MP = METERED SERVICE PEDESTAL
- CC = CONTROLLER, CABINET, & CONCRETE PAD

	1	2	3	4	5	6	7	8	16	17	
PHASE 2 & 6	G	G	G	G	G	R	R	R	W	W	
PEDESTRIAN CLEARANCE	G	G	G	G	G	R	R	R	FDW	FDW	
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	DW	DW	
PHASE 8	R	R	R	R	R	G	G	G	DW	DW	
8 CHANGE	R	R	R	R	R	Y	Y	Y	DW	DW	
FLASHING OPERATION	FY	FY	FY	FY	FY	FR	FR	FR	DARK	DARK	

PHASING CHART

PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE INSTALLATION OF A TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF STOTLER ROAD AND HALFWAY BOULEVARD. HALFWAY BLVD. IS THE MAJOR ROAD AND IS CONSIDERED TO RUN IN AN EAST / WEST DIRECTION.

INTERSECTION OPERATIONS:

AN EIGHT PHASE, FULL TRAFFIC ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS TO BE INSTALLED ON A PROPOSED CONCRETE PAD:

- 1) THE CURRENT CONFIGURATION IS A TEE INTERSECTION, WITH SPACE IN THE CONDUITS AND ON THE MAST ARMS FOR POSSIBLE FUTURE 4TH LEG. THE EAST APPROACH OF HALFWAY BOULEVARD, WILL HAVE A PERMISSIVE LEFT TURN ONTO STOTLER ROAD.
- 2) THE NORTH MOVEMENT WILL INCLUDE A LEFT AND RIGHT EXCLUSIVE TURN ONTO HALFWAY BLVD.
- 3) THERE WILL BE A CONCURRENT PEDESTRIAN PHASE ACROSS STOTLER ROAD WITH THE GREEN CYCLE FOR HALFWAY BOULEVARD.
- 4) RIGHT - TURN - ON - RED WILL BE ALLOWED FOR THE SOUTH - WEST APPROACHES TO THIS INTERSECTION.

APS NOTES:

- 1) APS WILL FUNCTION AS FOLLOWS FOR CROSSING STOTLER ROAD:
 - a. WHEN A PEDESTRIAN LOCATES AND PASSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSH BUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS STOTLER ROAD."
 - b. WHEN THE WALK PHASE BEGINS THE PUSH BUTTON UNIT WILL PROVIDE RAPID TICKS WHICH LAST THE DURATION OF THE WALK PHASE.

SIGNAL GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION. ALL POLES, HANDHOLES, CONDUITS UNDER PAVEMENT, CABINETS AND METERED SERVICE PEDESTALS SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS PERFORMED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. TAGS SHALL BE INSTALLED ON EACH CABLE IN THE CONTROLLER CABINET AS WELL AS EACH HANDHOLE.
3. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
4. NO. 6 AWG STRANDED BARE COPPER GROUND WIRE INSTALLED IN EACH SHA HANDHOLE SHALL CONNECT THE GROUNDING LUG ON THE LID / COLLAR TO THE GROUND ROD IN THE BASE OF THE HANDHOLE TO PROPERLY GROUND THE STRUCTURE.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN SHA STANDARDS MD 816.03, MD 818.01, MD 818.02 AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
7. ALL PEDESTAL FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE OR BUILT INTO BACKER CURB.
8. THE CONTRACTOR SHALL INTEGRATE PROPOSED / EXISTING CONCRETE FOUNDATIONS WITH NEW CURB OR SIDEWALK RAMPS WHERE NECESSARY. THE FOUNDATIONS SHALL BE FLUSH WITH, AND PART OF, THE FINAL CURB OR SIDEWALK GRADE TO INCREASE ACCESSIBILITY FOR PEDESTRIANS.
9. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MDMUTCD CHAPTER 4E "PEDESTRIAN CONTROL FEATURES" AND FIGURES 4E-3 AND 4E-4, AND THE LATEST NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS GUIDE TO BEST PRACTICE."
10. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
12. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
13. VIDEO DETECTION CAMERA ALIGNMENT SHALL BE COORDINATED WITH THE ENGINEER.
14. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
15. HAND DIGGING FOR INSTALLATION OR REMOVAL OF SIGNAL EQUIPMENT, SIGNS, CURB AND SIDEWALK SHALL BE INCIDENTAL TO THE ITEMS IN THE EQUIPMENT LIST. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR HAND DIGGING.
16. THE CONTRACTOR SHALL EXCAVATE CONCRETE FOUNDATIONS AS NEEDED TO INSTALL NEW FOUNDATIONS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR EXCAVATING TO THE REQUIRED DEPTH FOR NEW FOUNDATIONS.
17. ALL PROPOSED SIGNS MOUNTED ON TRAFFIC SIGNAL STRUCTURES SHALL BE MOUNTED IN ACCORDANCE WITH SHA TYPICAL TYP 813.99.01 AND TYP 813.99.04. ALL PROPOSED R10-3(1) SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH SHA STANDARD MD 813.07. ALL MOUNTING HARDWARE SHALL BE INCIDENTAL TO SHEET ALUMINUM SIGNS ITEM.

NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: PJM
 DRAWN BY: GLJ
 CHECKED BY: PJM / TP
 DATE: 09-15-22

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
 747 Northern Avenue, Hagerstown, Maryland, 21742
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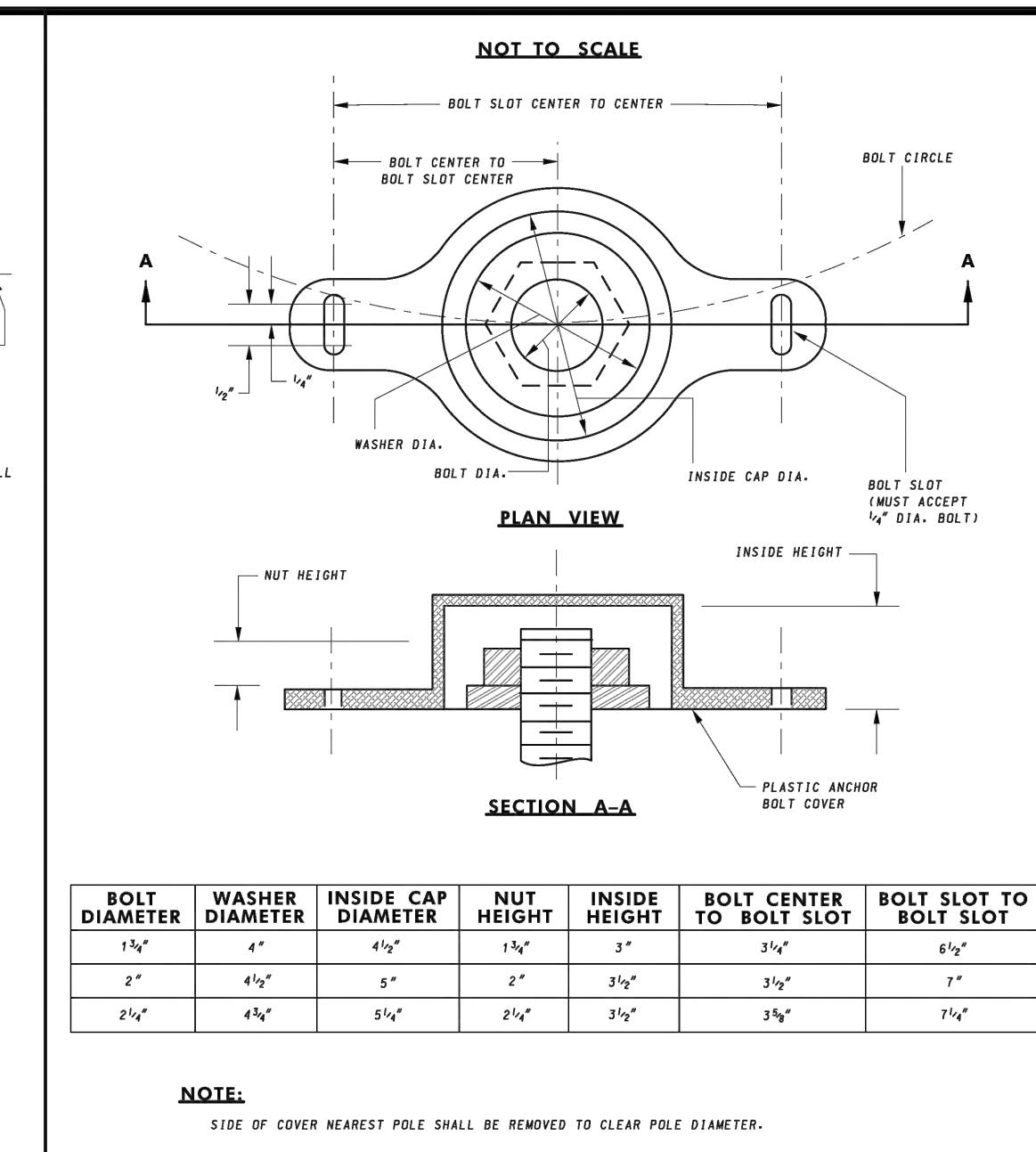
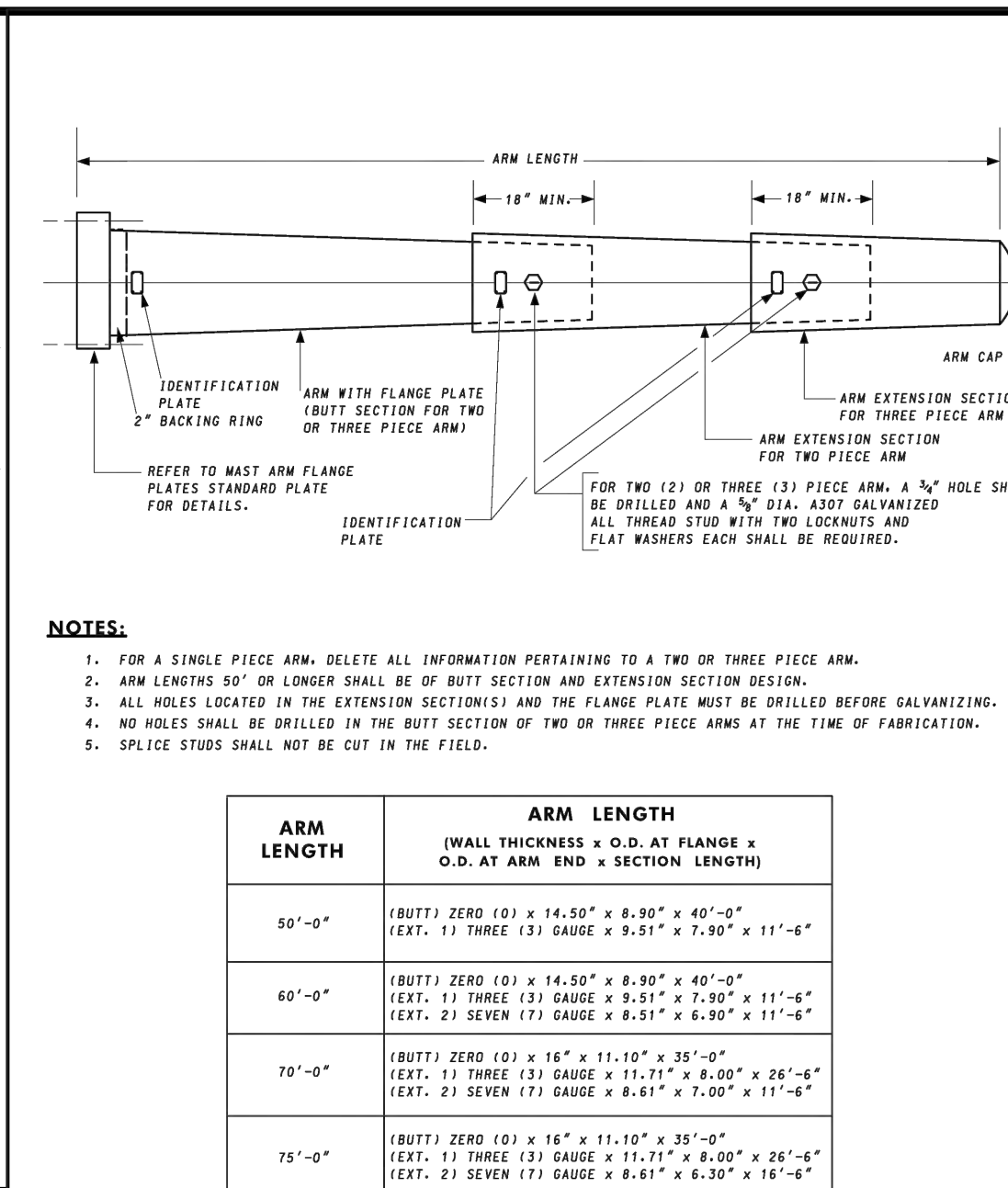
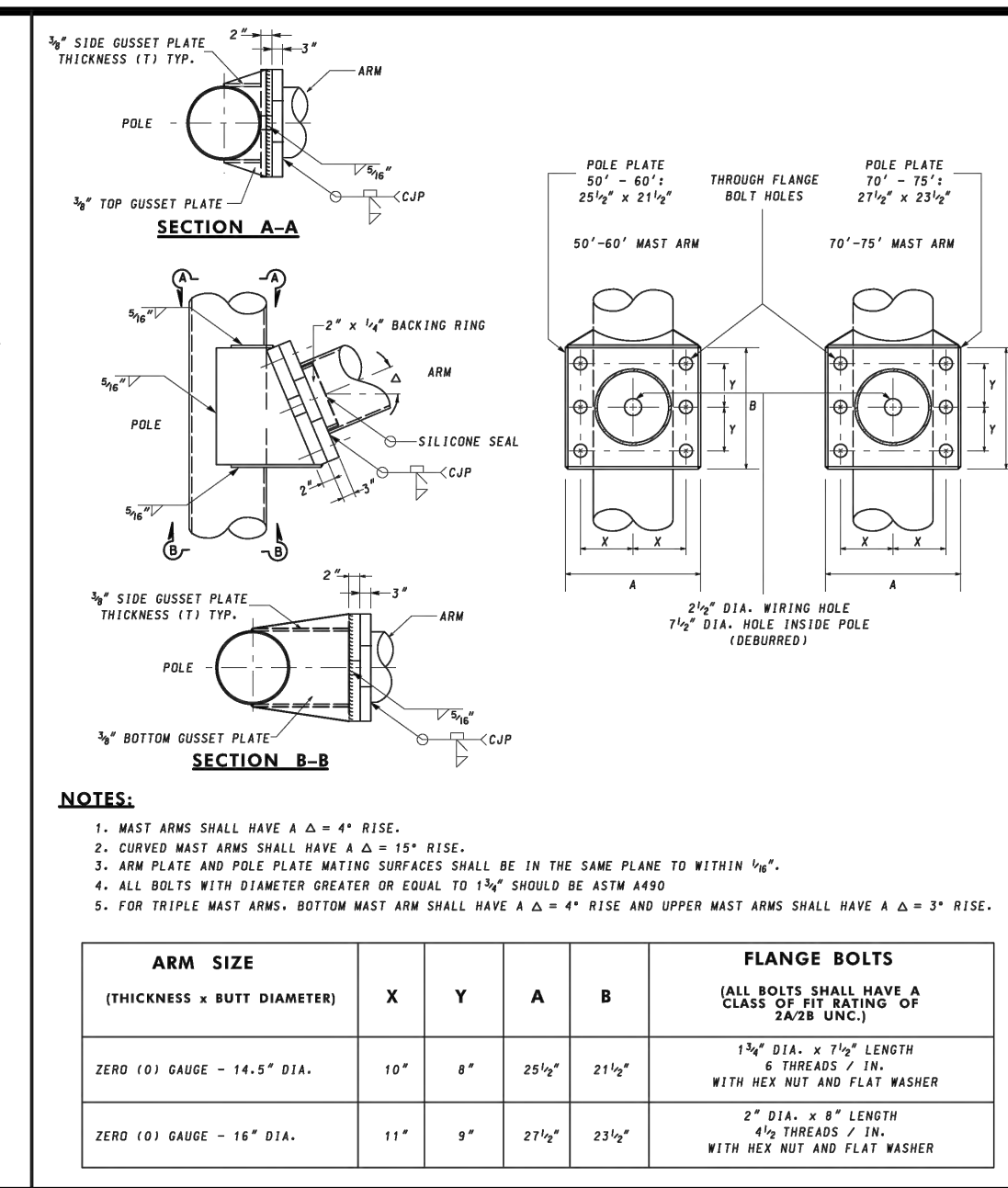
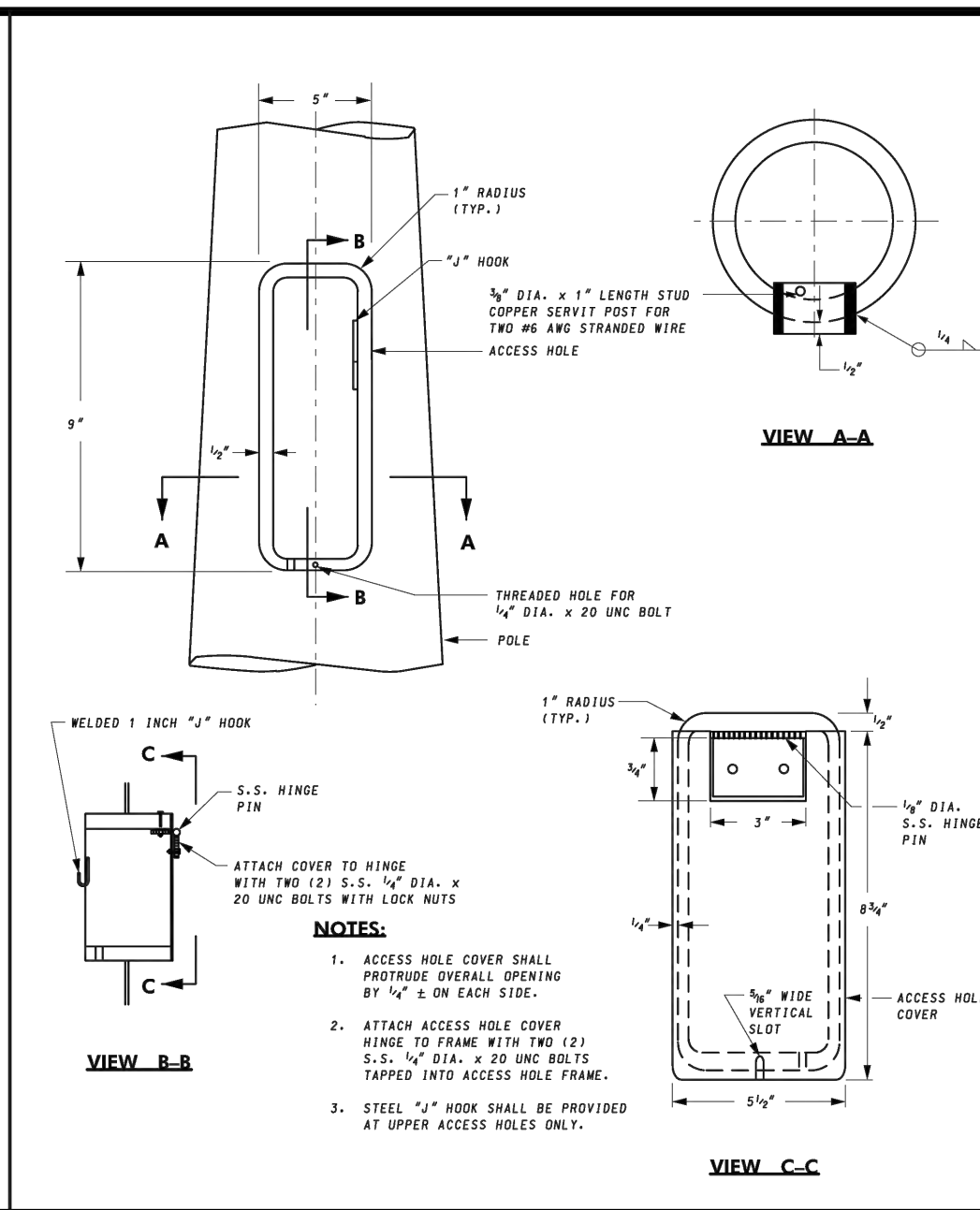
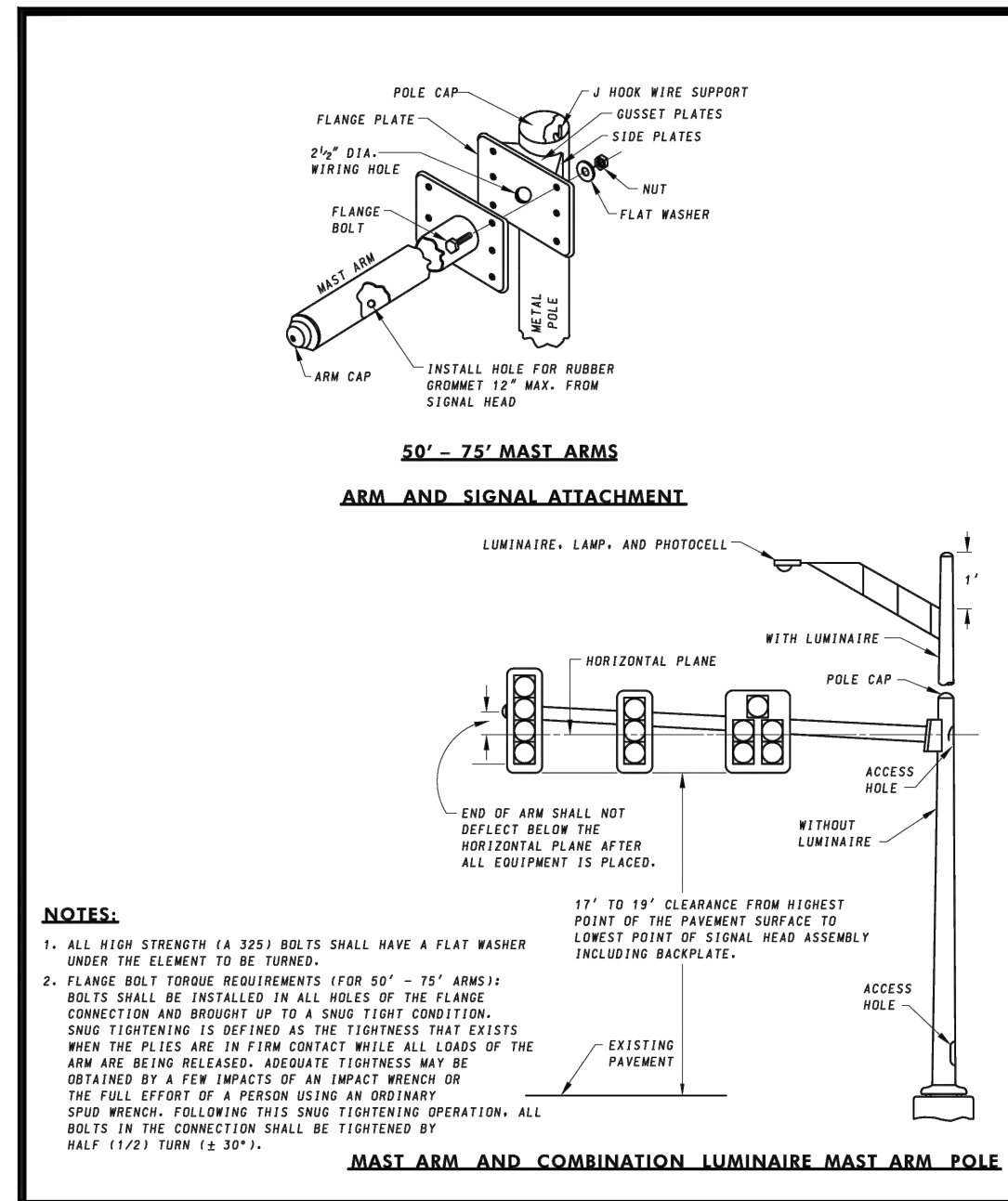
INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
TRAFFIC SIGNAL - WIRING PLAN & NOTES

SCALE
 NONE

SECTION NO.
 SG - 02

SHEET NO.
 21 OF 48

PROJECT NO.
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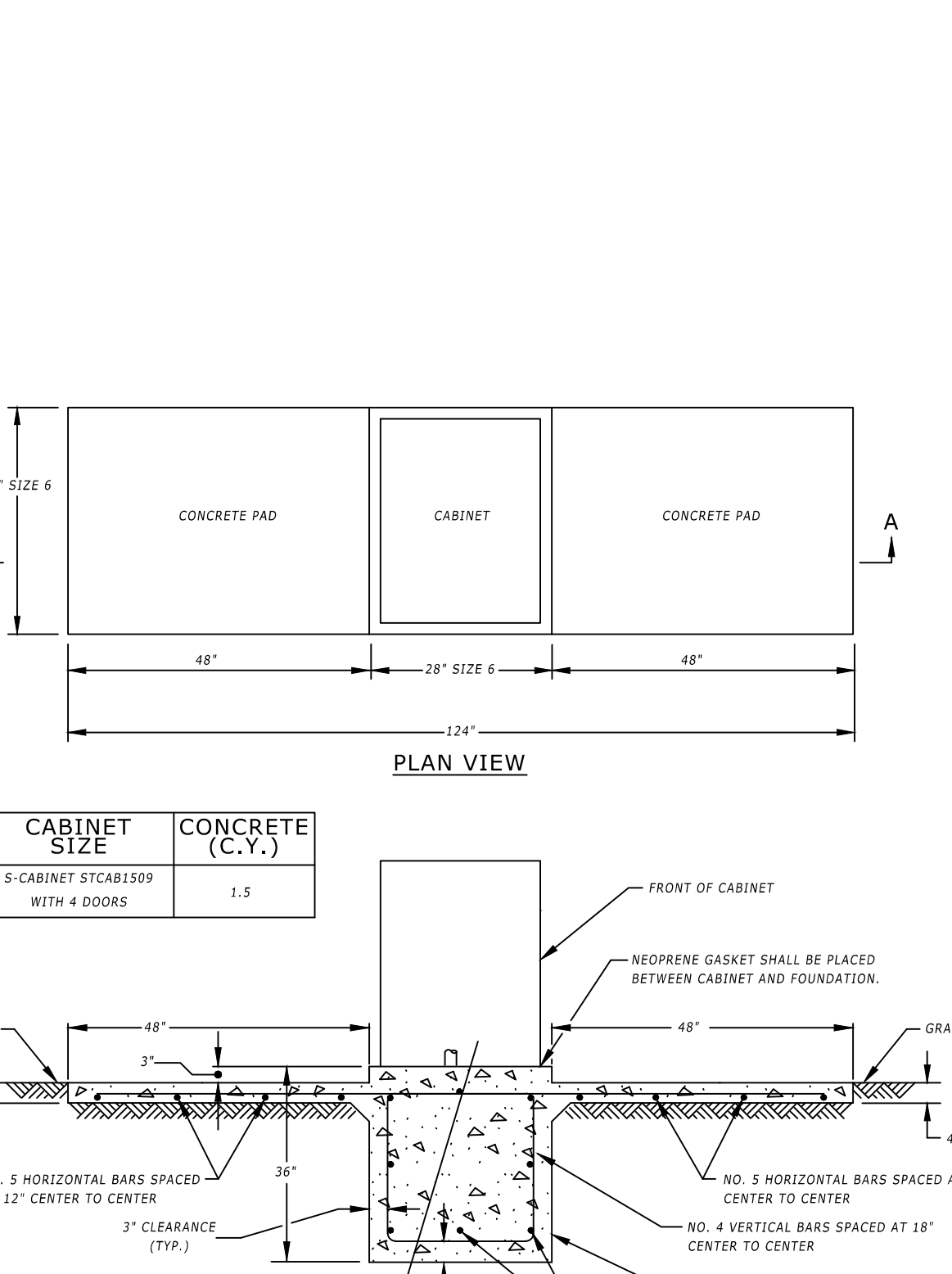
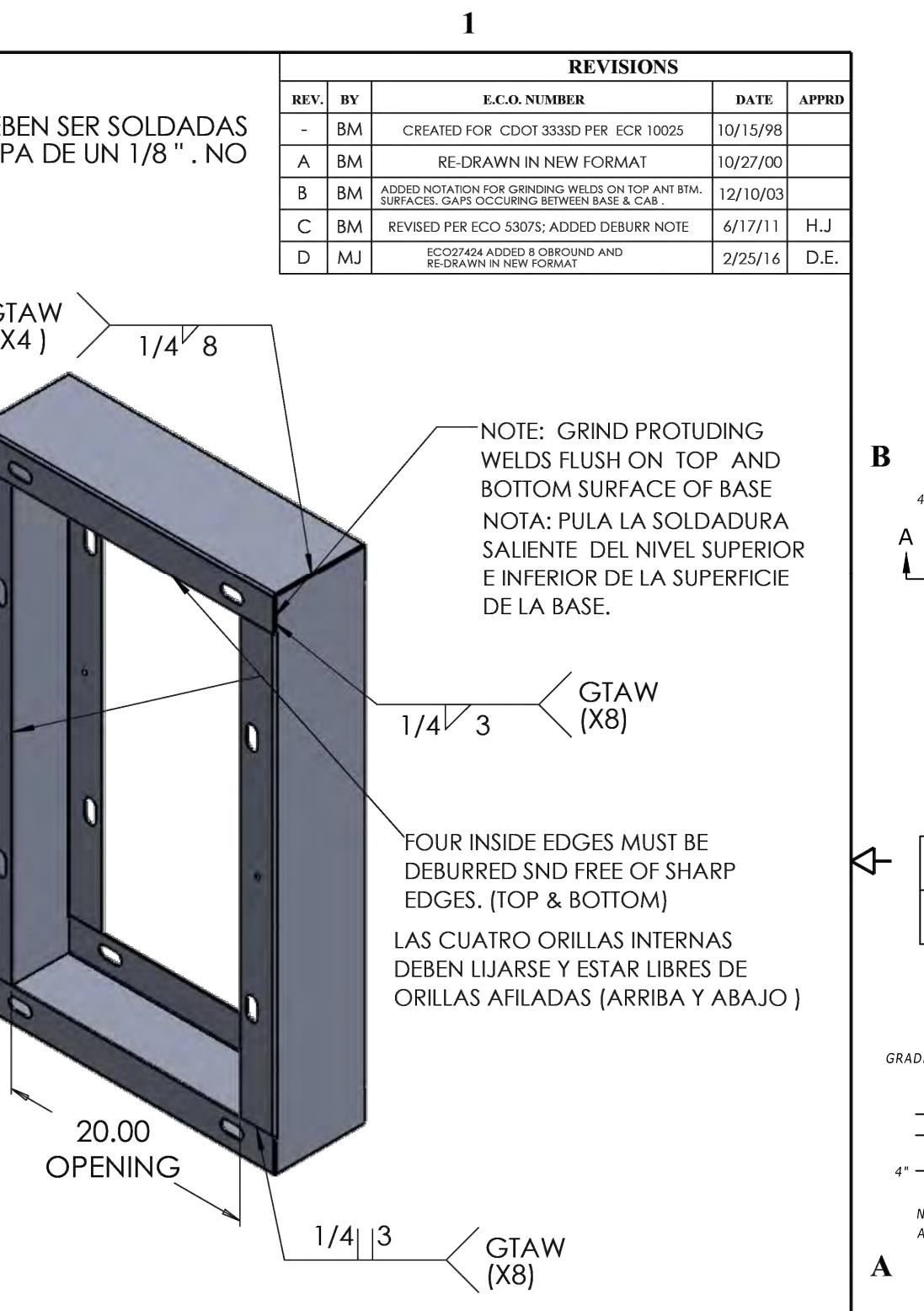
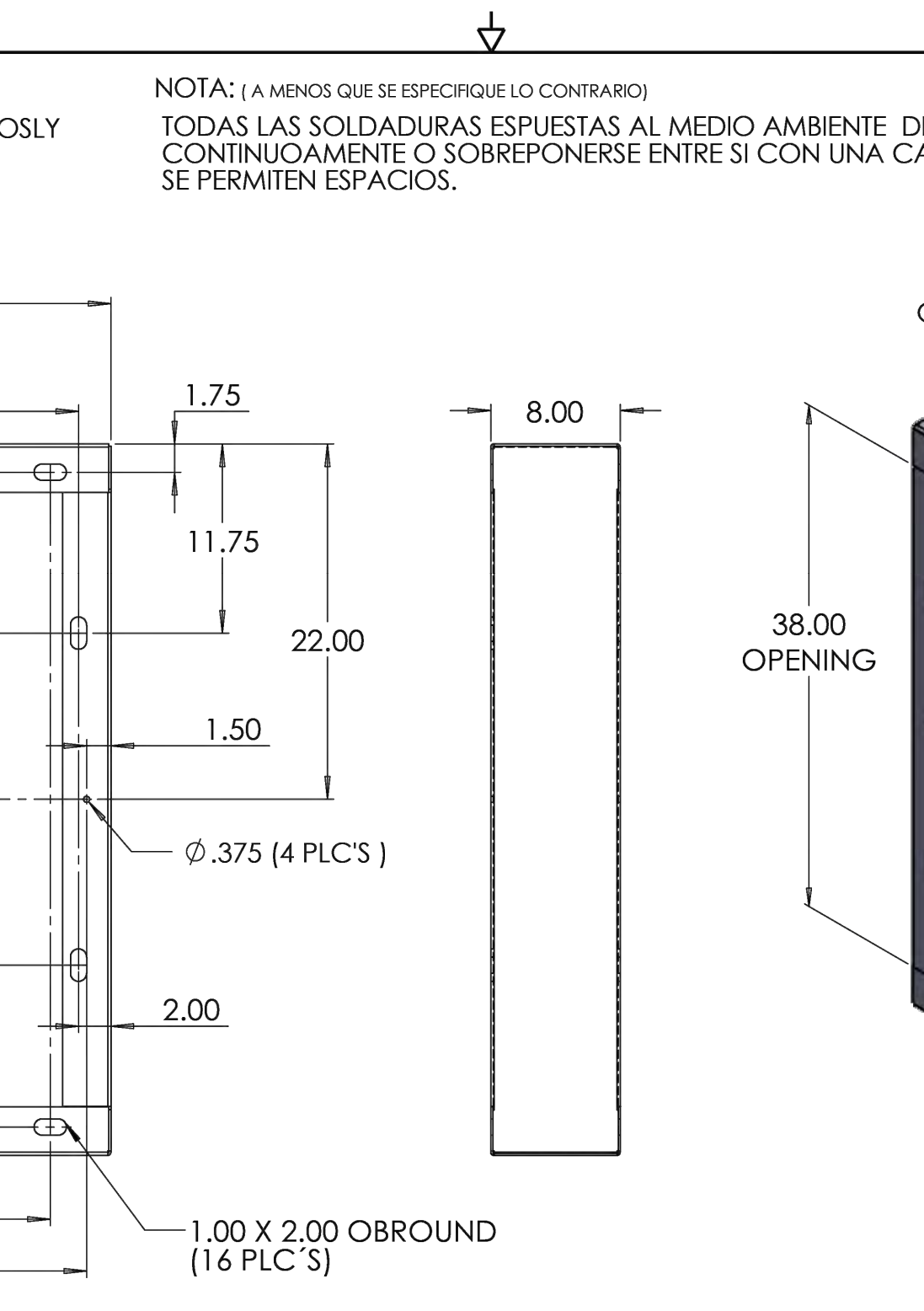
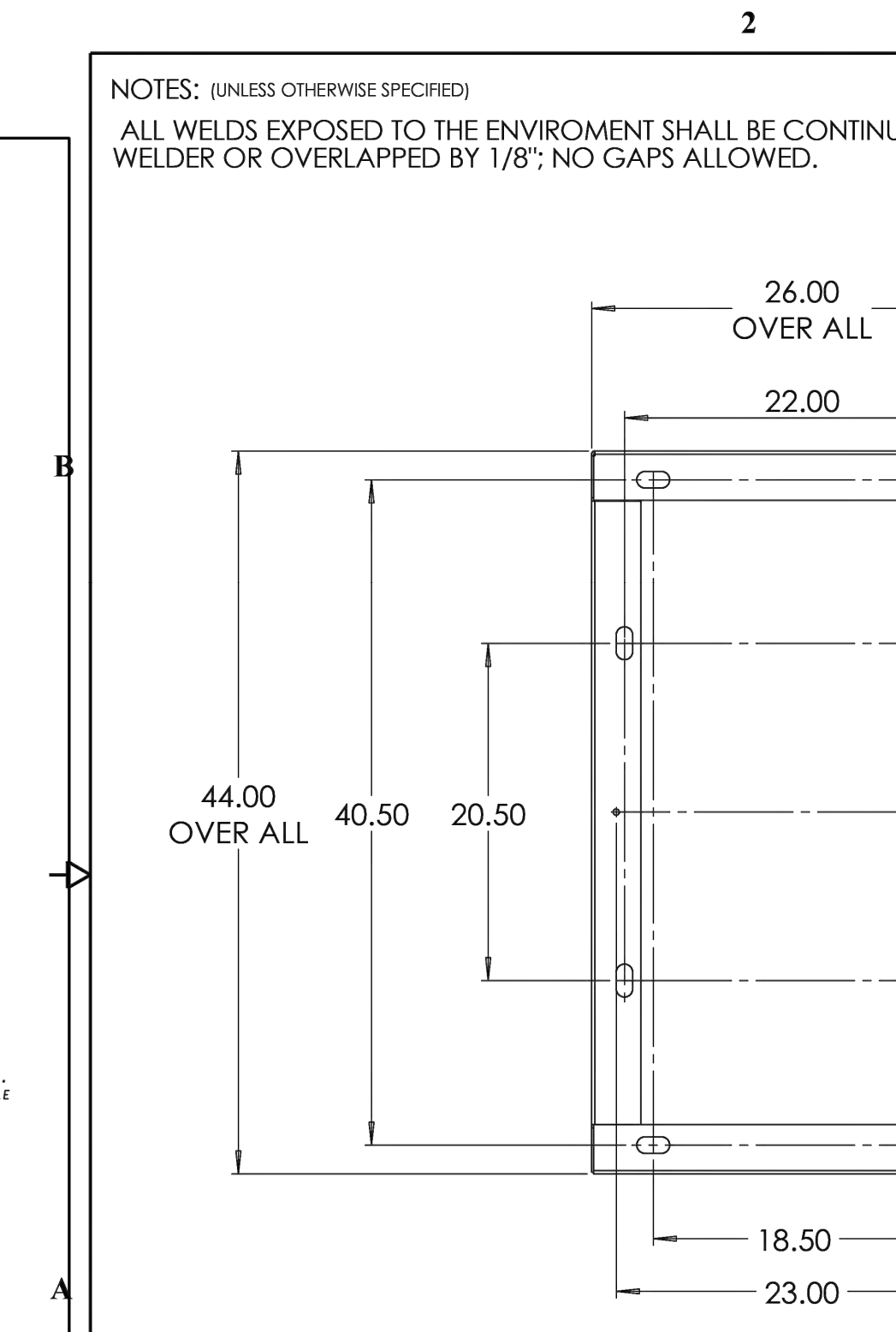
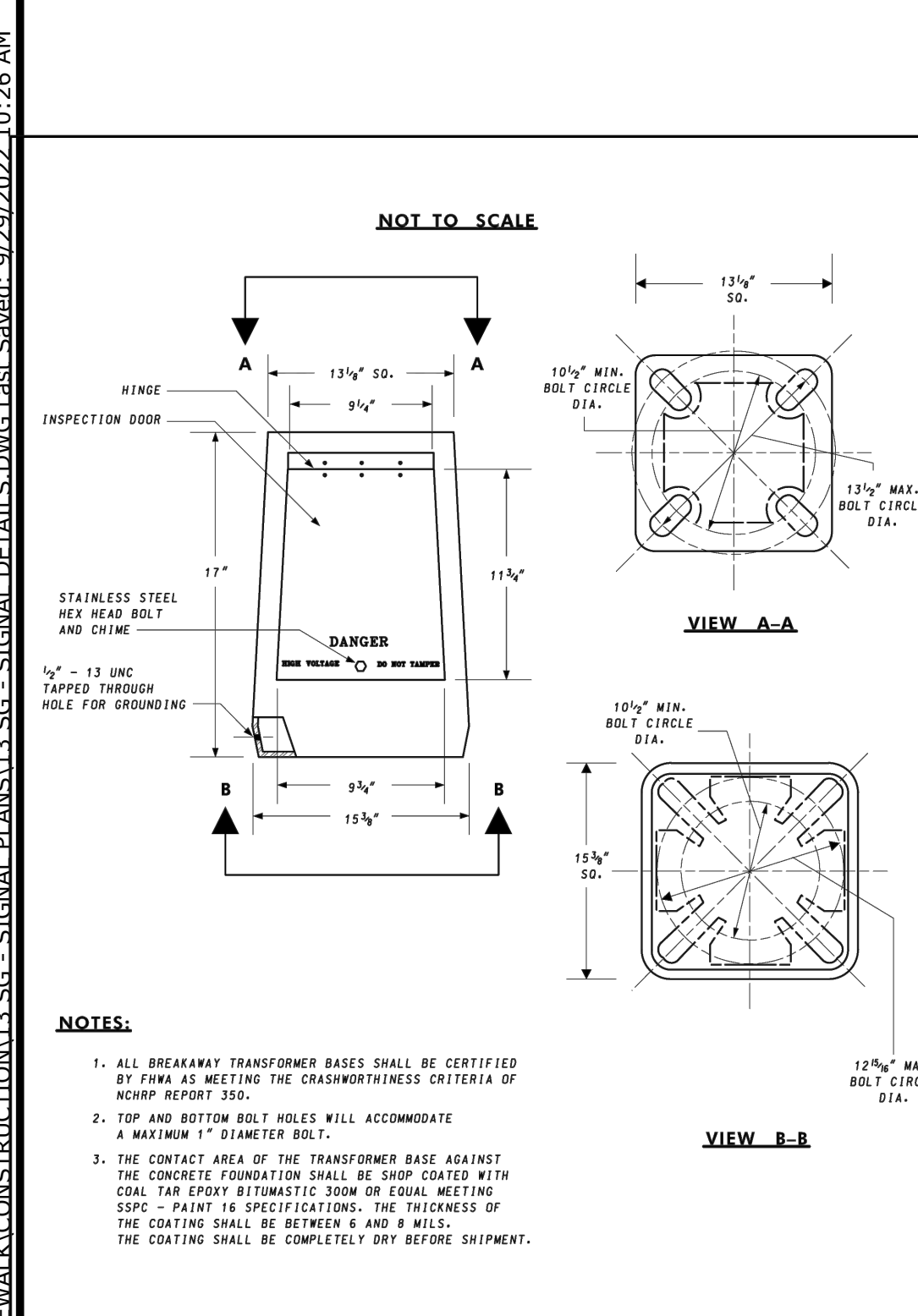
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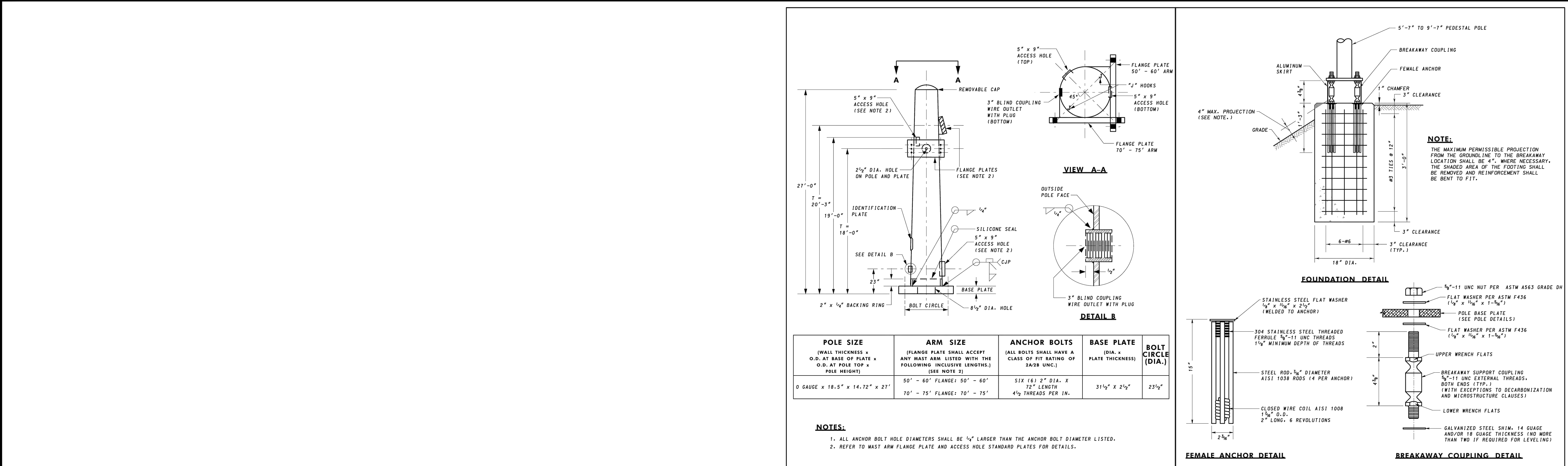
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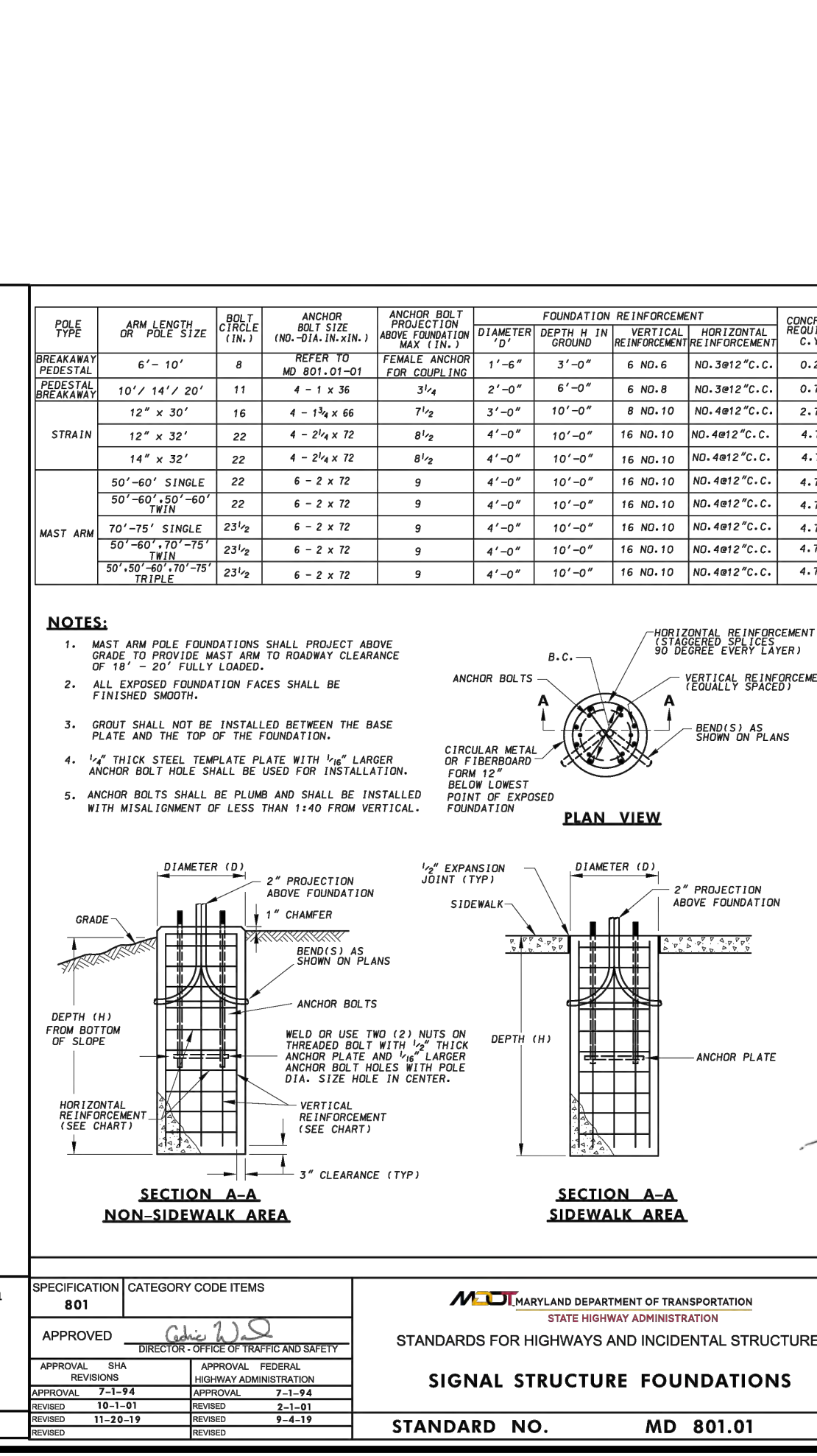
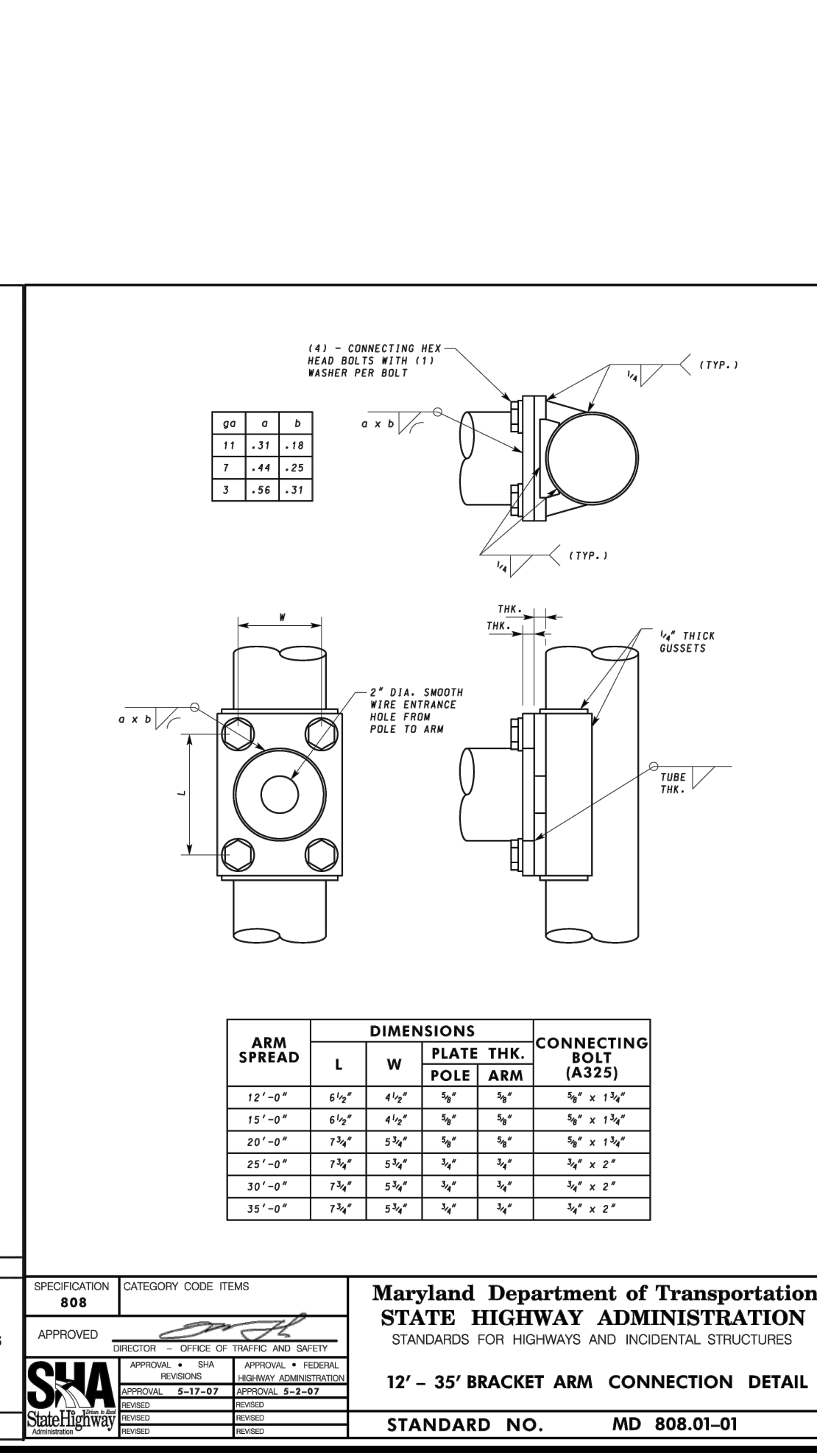
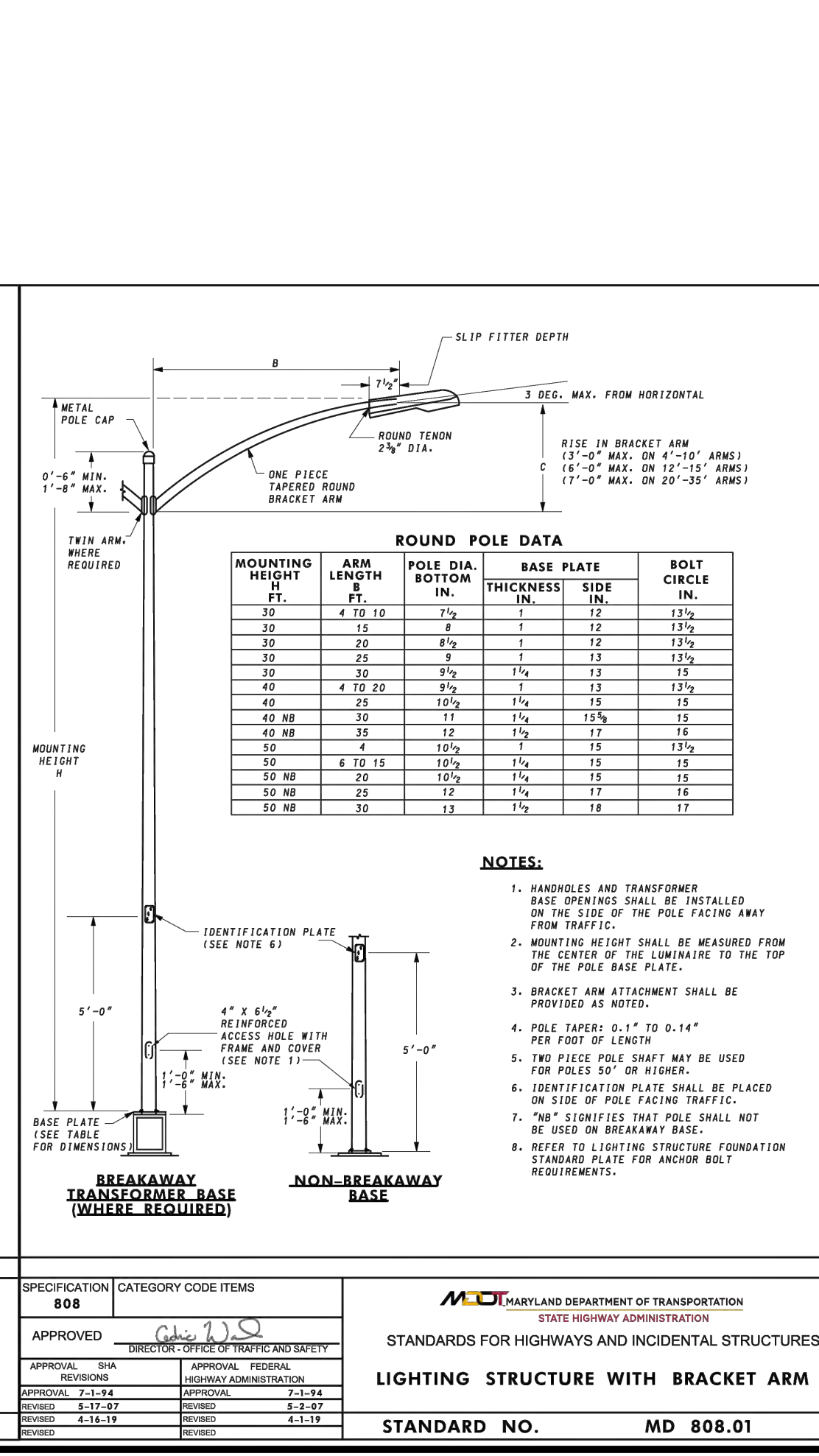
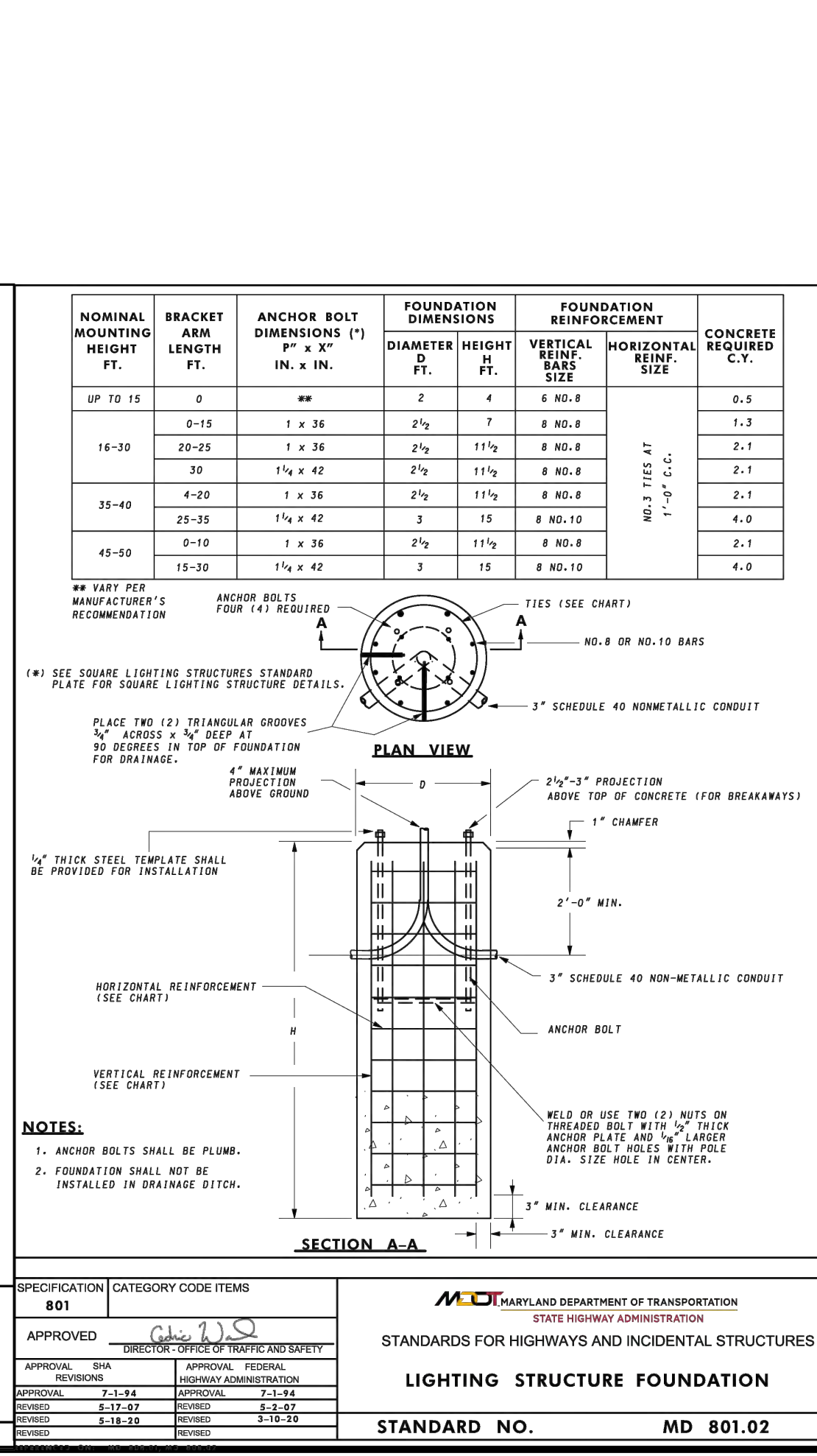
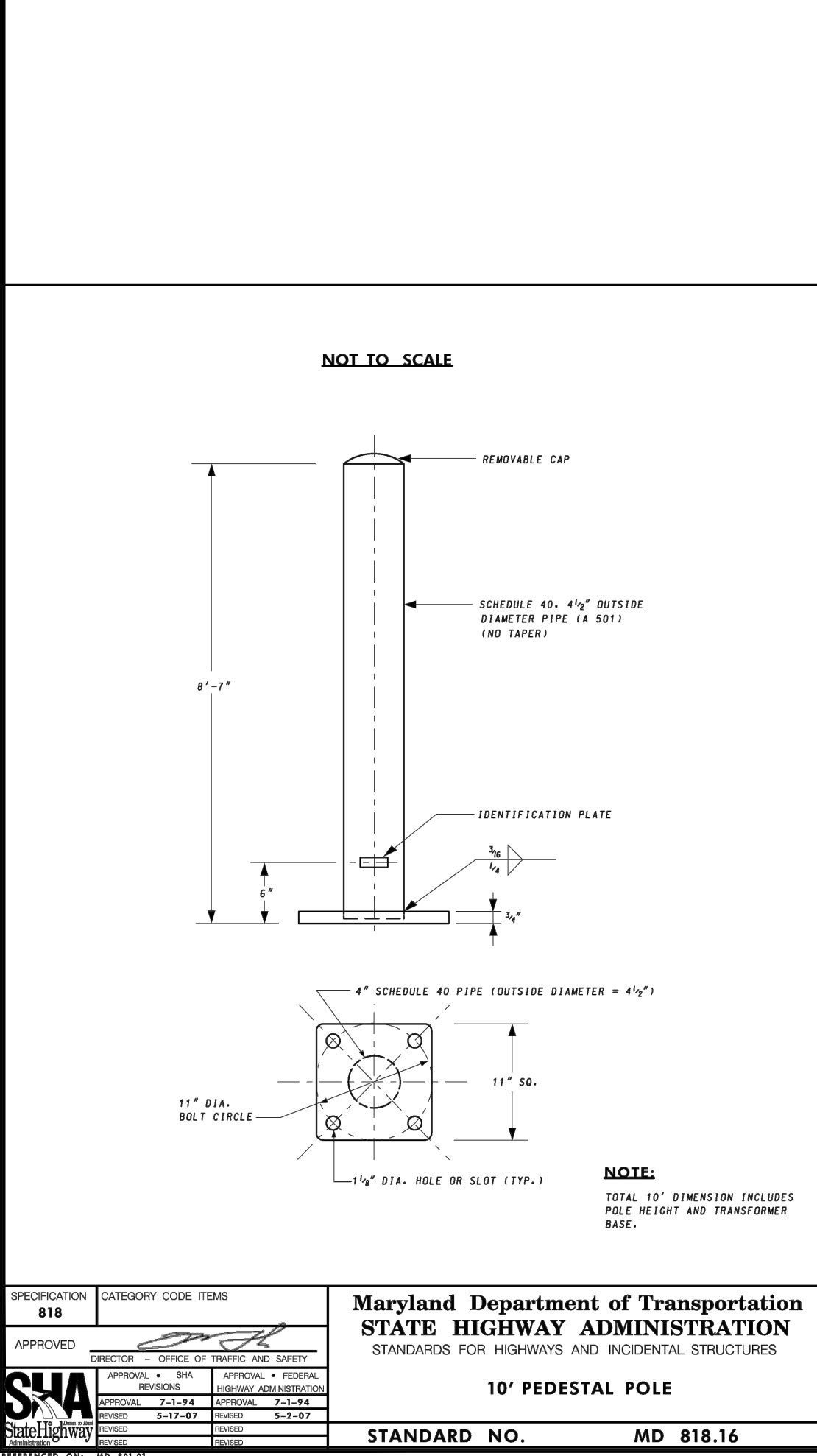
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SPECIFICATION	CATEGORY CODE ITEMS	APPROVED	DATE	STANDARD NO.	MD
818	801	APPROVED	APPROVED	818.09	801.01



SPECIFICATION	CATEGORY CODE ITEMS	APPROVED	DATE	STANDARD NO.	MD
818	801	APPROVED	APPROVED	818.09	801.01

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 250-313-2660 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
SIGNAL DETAILS

SCALE
1" = 30'

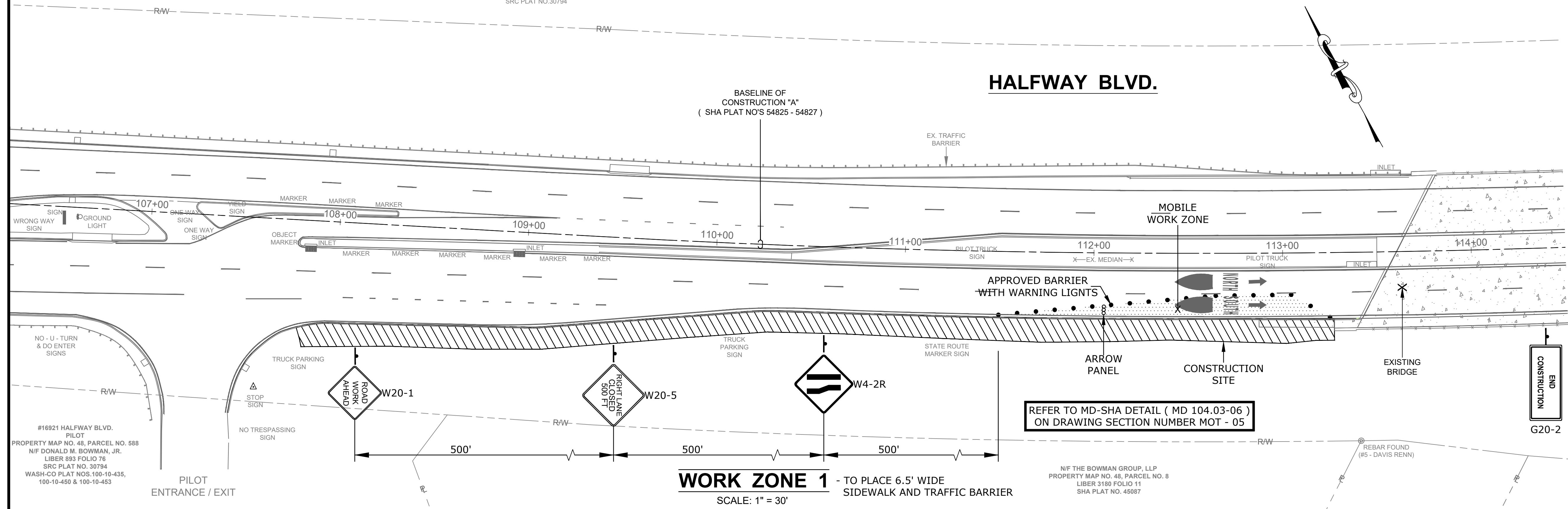
SECTION NO.
SG - 05
SHEET NO.
24 OF 48
PROJECT NO.
16-045

← (HOPEWELL ROAD)

N/F BARBARA STEPHENSEN & RONALD E. BROWN FOUR (4) DEED
PROPERTY MAP NO. 48, PARCEL NO. 7
AS PER LIBER 3642 FOLIO 326 PIO
PLAT NO. 5906-5907 WASH-CO PLAT NOS. 100-10-437, 100-10-450 & 100-10-451
SRC PLAT NO. 30794

PROPERTY MAP NO. 48, PARCEL NO. 865
N/F THOMAS BENNETT & HUNTER, INC.
LIBER 5941 FOLIO 192
PLAT NOS. 10632-10635 SRC PLAT NO. 30794

(U.S. ROUTE 81) →



WORK ZONE 1 - TO PLACE 6.5' WIDE SIDEWALK AND TRAFFIC BARRIER
SCALE: 1" = 30'

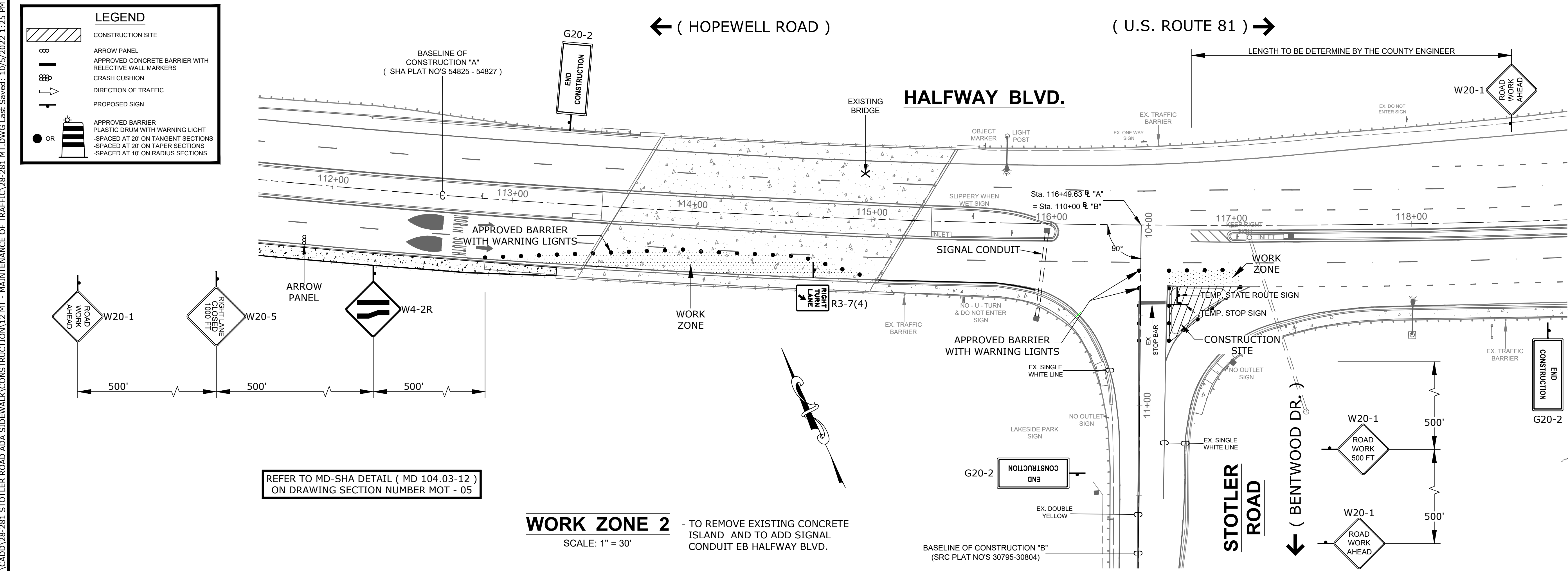
N/F THE BOWMAN GROUP, LLP
PROPERTY MAP NO. 48, PARCEL NO. 8
LIBER 3180 FOLIO 11
SHA PLAT NO. 45087

LEGEND

- CONSTRUCTION SITE
- ARROW PANEL
- APPROVED CONCRETE BARRIER WITH REFLECTIVE WALL MARKERS
- CRASH CUSHION
- DIRECTION OF TRAFFIC
- PROPOSED SIGN
- APPROVED BARRIER PLASTIC DRUM WITH WARNING LIGHT
- SPACED AT 20' ON TANGENT SECTIONS
- SPACED AT 20' ON TAPER SECTIONS
- SPACED AT 10' ON RADIUS SECTIONS

← (HOPEWELL ROAD)

(U.S. ROUTE 81) →



WORK ZONE 2 - TO REMOVE EXISTING CONCRETE ISLAND AND TO ADD SIGNAL CONDUIT EB HALFWAY BLVD.
SCALE: 1" = 30'

REFER TO MD-SHA DETAIL (MD 104.03-12)
ON DRAWING SECTION NUMBER MOT - 05

BASELINE OF CONSTRUCTION "B"
(SRC PLAT NO'S 30795-30804)

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

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Phone: 240-313-2460 Fax: 240-313-2401



INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
MOT - WORK ZONES 1 & 2



SCALE
1" = 30'
SECTION NO.
MOT - 01
SHEET NO.
25 OF 48
PROJECT NO.
16-045

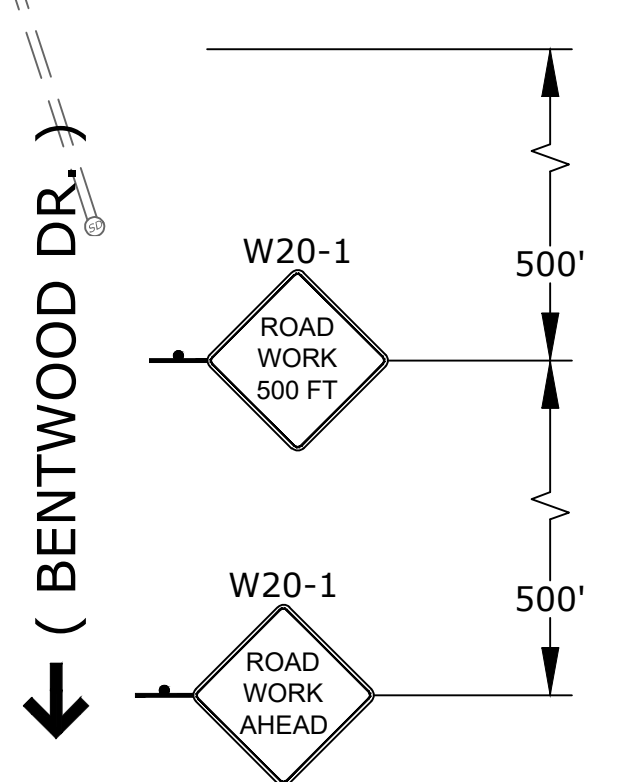
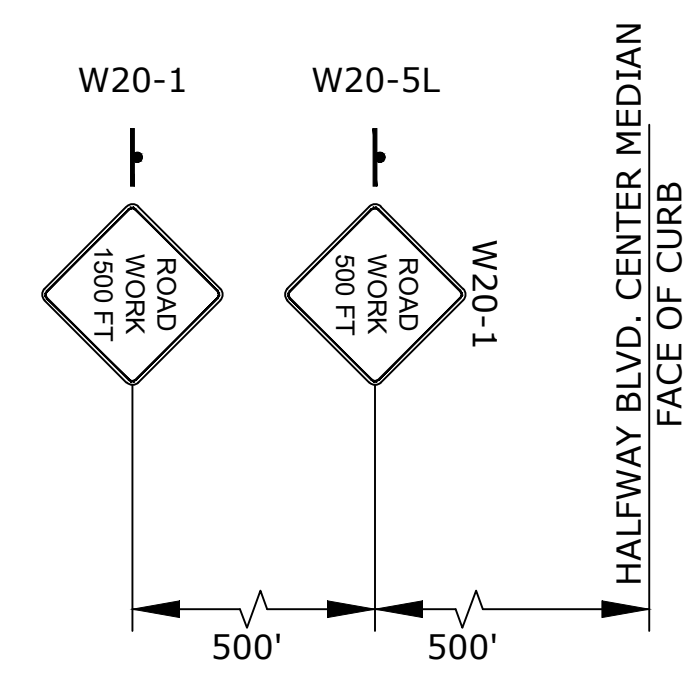
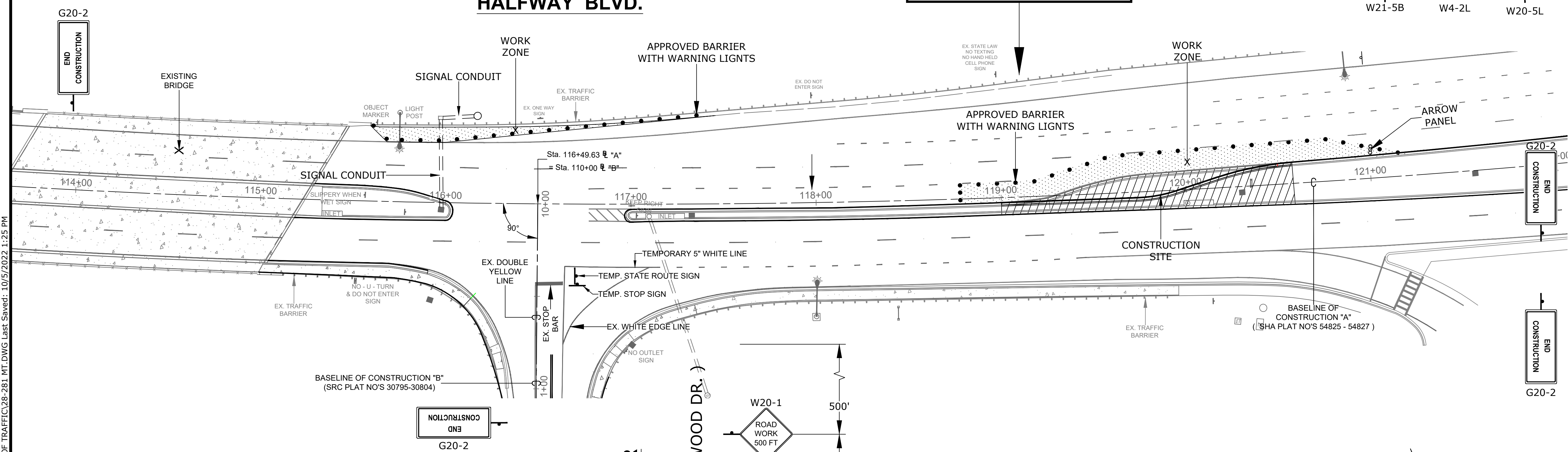
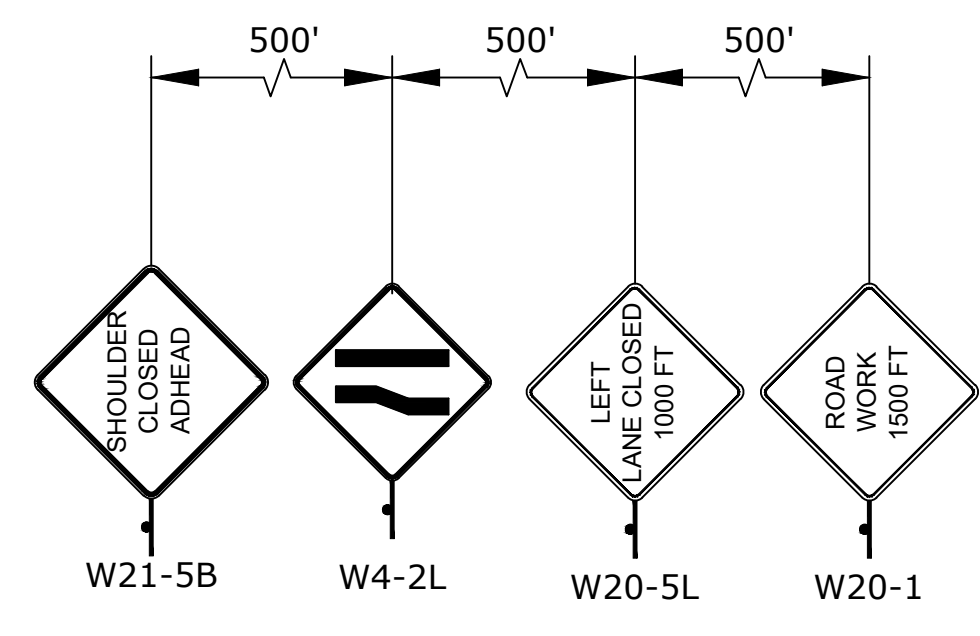
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← (HOPEWELL ROAD) (U.S. ROUTE 81) →

HALFWAY BLVD.

REFER TO MD-SHA DETAIL (MD 104.04-04)
ON DRAWING SECTION NUMBER MOT - 06



WORK ZONE 3
SCALE: 1" = 30'

- TO EXTEND THE WB LEFT TURN LANE
- TO SET NORTHWEST SIGNAL FOUNDATION AND CONDUIT WB HALFWAY BLVD.

LEGEND

	CONSTRUCTION SITE
	ARROW PANEL
	APPROVED CONCRETE BARRIER WITH REFLECTIVE WALL MARKERS
	CRASH CUSHION
	DIRECTION OF TRAFFIC
	PROPOSED SIGN
	APPROVED BARRIER PLASTIC DRUM WITH WARNING LIGHT
	-SPACED AT 20' ON TANGENT SECTIONS -SPACED AT 20' ON TAPER SECTIONS -SPACED AT 10' ON RADIUS SECTIONS

NO.	REVISION DESCRIPTION	BY	DATE

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 240-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
MOT - WORK ZONE 3

STATE OF MARYLAND
PAMELA JEAN MOY
Professional Engineer
No. 39353
Professional Seal No. 7.22

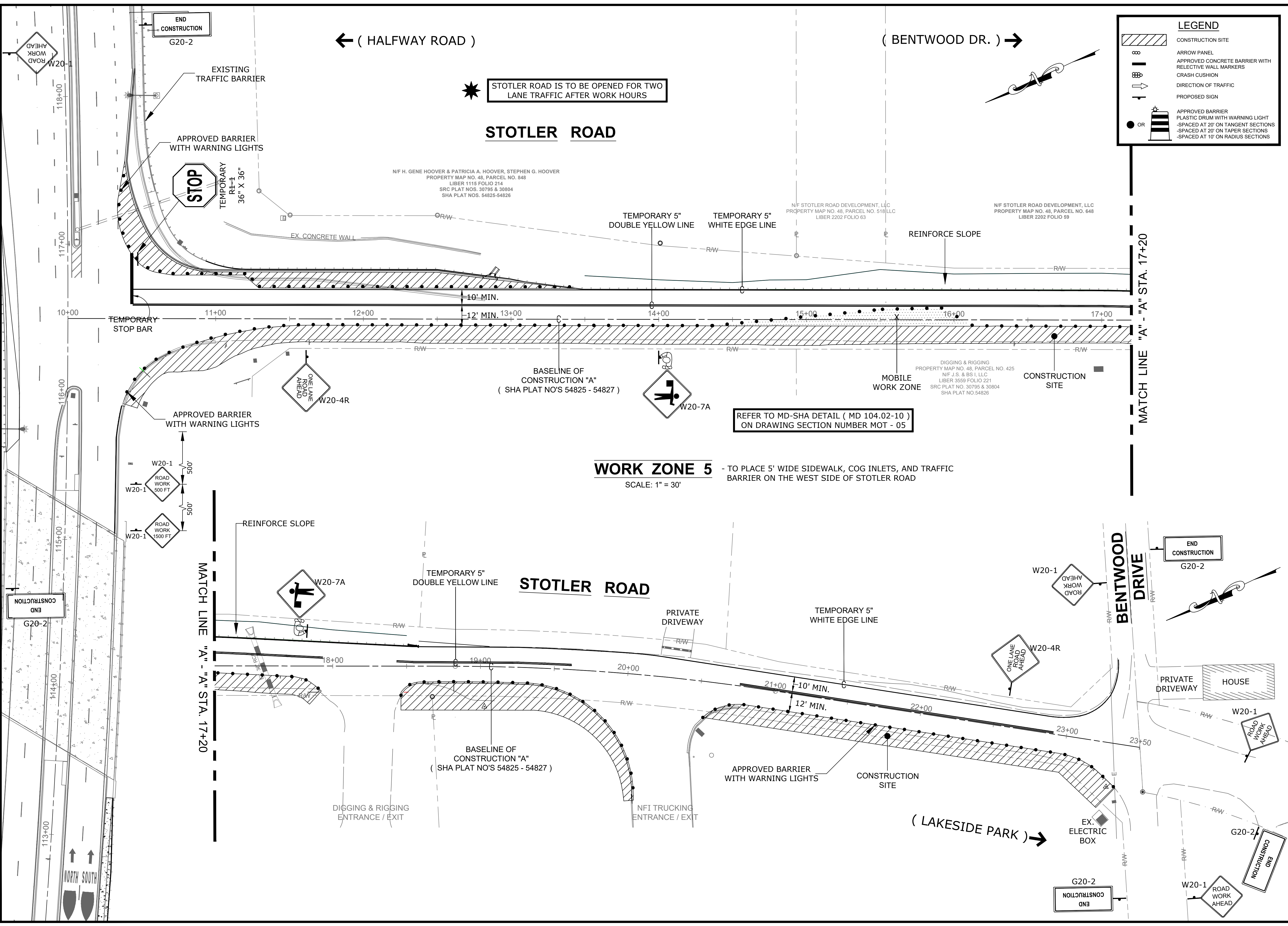
SCALE
1" = 30'

SECTION NO.
MOT -02

SHEET NO.
26 OF 48

PROJECT NO.
16-045

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LEGEND

- [Hatched Area] CONSTRUCTION SITE
- [Arrow Panel] ARROW PANEL
- [Concrete Barrier] APPROVED CONCRETE BARRIER WITH SELECTIVE WALL MARKERS
- [Crash Cushion] CRASH CUSHION
- [Arrow] DIRECTION OF TRAFFIC
- [Proposed Sign] PROPOSED SIGN
- [Barrier with Light] APPROVED BARRIER WITH WARNING LIGHT
- [Plastic Drum] PLASTIC DRUM WITH WARNING LIGHT
- [Taper Section] -SPACED AT 20' ON TAPER SECTIONS
- [Radius Section] -SPACED AT 10' ON RADIUS SECTIONS

★ STOTLER ROAD IS TO BE OPENED FOR TWO LANE TRAFFIC AFTER WORK HOURS

REFER TO MD-SHA DETAIL (MD 104.02-10) ON DRAWING SECTION NUMBER MOT - 05

WORK ZONE 5 - TO PLACE 5' WIDE SIDEWALK, COG INLETS, AND TRAFFIC BARRIER ON THE WEST SIDE OF STOTLER ROAD
SCALE: 1" = 30'

NO.	REVISION DESCRIPTION	DATE

DESIGNED BY:	PJM
DRAWN BY:	CLJ
CHECKED BY:	PJM / SH / TP
DATE:	07-06-22

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 240-313-2660 Fax: 240-313-2401

**INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
MOT - WORK ZONE 5**

STATE OF MARYLAND
PAMELA JEAN HOGAN
No. 39252
Professional Engineer
07/22

SCALE AS NOTED

SECTION NO. MOT -04

SHEET NO. 28 OF 48

PROJECT NO. 16-045

CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT:

DESIGN

MDOT SHA - "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2011 EDITION AND SUBSEQUENT REVISIONS. (MDMUTCD)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION (CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MDOT SHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.

MDOT SHA - "BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES", MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.

DESIGN WIND

100 MPH - WOOD SUPPORTS
10 YEAR RECURRENCE INTERVAL

100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS
10 YEAR RECURRENCE INTERVAL

100 MPH - OVERHEAD AND CANTILEVER STRUCTURES
50 YEAR RECURRENCE INTERVAL

} ALL DISTRICTS

DESIGN STRESS

SOIL BEARING PRESSURE - S = 3,000 P.S.F. (ASSUMED)
SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

CLASSIFICATION OF SIGNS

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.

1. GUIDE SIGNS

- A) STRUCTURAL TYPES
 - OH - OVERHEAD
 - C - CANTILEVER
 - GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKWAY
 - BM - BRIDGE MOUNTED

2. STANDARD SIGNS (REGULATORY, WARNING, ETC.)

- A) STRUCTURAL TYPES
 - WOOD SUPPORTS
 - SQUARE TUBE

B) PANELS

- MATERIAL - EXTRUDED ALUMINUM COPY - DIRECT APPLIED
- 1) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

B) PANELS

- MATERIAL - SHEET ALUMINUM COPY - DIRECT APPLIED

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. (GM-1, GM-2, GM-3, etc)
SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER. (OH-1a, OH-1b, OH-1c)

STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS

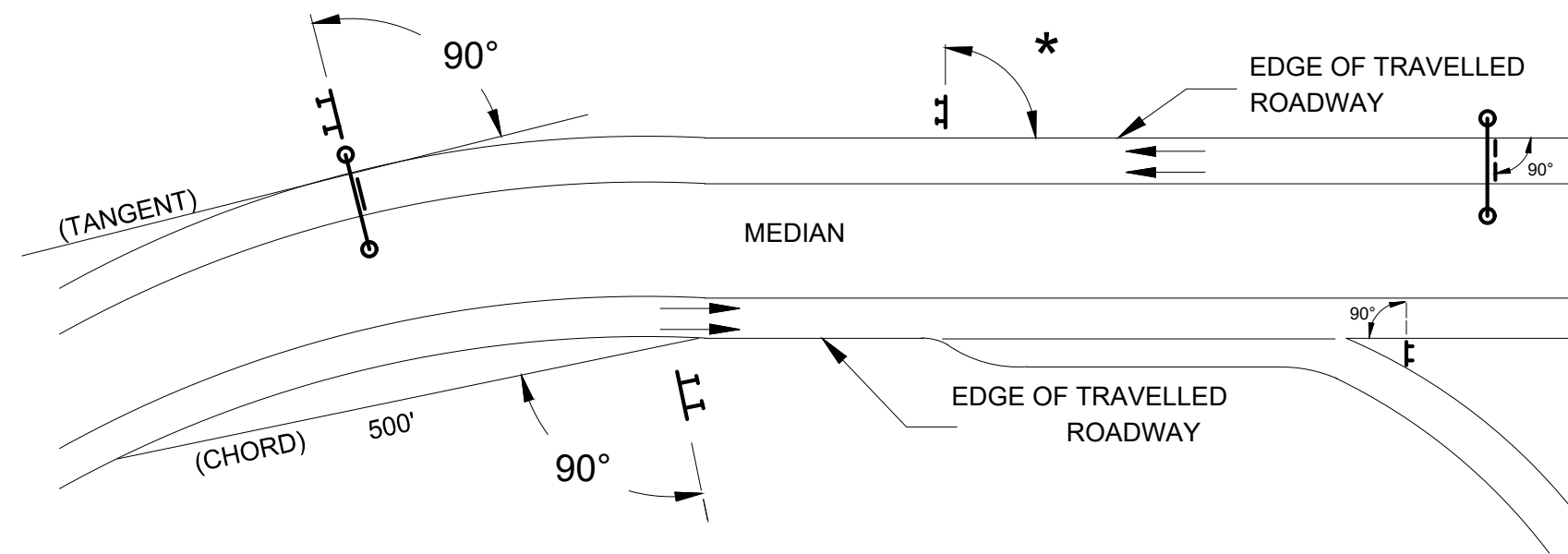
- R - REGULATORY
- W - WARNING
- M - ROUTE MARKERS AND ACCESSORIES
- D - DESTINATION AND MILEAGE PANELS
- S - SCHOOL

PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK. EACH STANDARD SIGN IS IDENTIFIED FIRST BY THE SHEET NUMBER, THEN BY THE NUMERICAL ORDER OF THE SIGN AS IT APPEARS ON THE PLAN. FOR EXAMPLE SHEET SN 2.1-101,102,103, ETC. SHEET SN 2.2-201,202,203,ETC.

PANEL LAYOUT AND ALPHABETS

1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE.
2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MDMUTCD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE AT http://apps.roads.maryland.gov/businesswithsha/bizstdsspecs/desmanualstdpub/publicationonline/oots/internet_signbook.asp

ORIENTATION OF SIGN FACES



* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° AWAY FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

SIGN LOCATIONS

1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES.
2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

1. VERTICAL ALIGNMENT
POSITION PANEL SO FACE IS PLUMB.
2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)
 - A) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM.
 - B) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.
 - C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.
 - D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

OVERHEAD SIGNS

1. VERTICAL ALIGNMENT
POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.
2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES, SUPPORTS, AND/OR SIGNS.
3. HORIZONTAL ALIGNMENT
 - A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.
 - B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.
 - C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
4. VERTICAL CLEARANCE
 - A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.
 - B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE.
 - C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF DESIGN SIGN: 20'-9".

PROJECT REQUIREMENTS

ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:

1. SHEETING SHALL MEET THE REQUIREMENTS OF SECTIONS 813 AND 950.03 OF MDOT SHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS 2017 EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.
2. LISTED ON MDOT SHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL).

PROJECT REQUIREMENTS CONTINUED

3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS:

GENERAL NOTE: ALL COLORS SHALL BE RETROREFLECTIVE EXCEPT BLACK. BLACK TEXT, BORDERS, SYMBOLS OR ANY BLACK ELEMENTS OF ANY SIGN SHALL BE NON-REFLECTIVE. THIS APPLIES TO ALL MDOT SHA SIGNS AS SHOWN BELOW.

A) GUIDE, EXIT GORE, GENERAL INFORMATION, AND SERVICE SIGNS - FALL INTO TWO SUB CATEGORIES:

(I). GROUND MOUNTED:
ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9).

(II). OVERHEAD STRUCTURE SIGNS AND OVERHEAD CANTILEVER SIGNS:
ALL RETROREFLECTIVE SHEETING ELEMENTS OF ALL OVERHEAD SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI (11). (THIS SECTION DOES NOT APPLY TO OVERHEAD SIGNALIZED INTERSECTION SIGNING; MAST ARM OR SPAN WIRE. FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION FOR SIGNAL SIGNING.)

B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR WARNING SIGNS (FLUORESCENT YELLOW AND FLUORESCENT ORANGE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

C) SCHOOL SIGNS - RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (FLUORESCENT YELLOW AND FLUORESCENT YELLOW-GREEN) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

D) REGULATORY SIGNS - FALL INTO THREE SUBCATEGORIES:

(I). "RED" REGULATORY SIGNS; (SPECIFICALLY - STOP, YIELD, DO NOT ENTER AND WRONG WAY). ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9).

(II). ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE REQUIREMENTS FOR ASTM TYPE IV (4).

(III). ALL OTHER REGULATORY SIGNS - ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET ASTM TYPE IV (4) INCLUDING RED ELEMENTS. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE REQUIREMENTS FOR WARNING SIGNS.

E) ROUTE MARKERS (INDEPENDENT USE AND GUIDE SIGN USE)

INDEPENDENT USE: ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET BUT NOT TO EXCEED THE REQUIREMENTS FOR ASTM TYPE IV (4).

GUIDE SIGN USE: WHEN INCORPORATED IN THE BODY OF A GUIDE SIGN, ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE SHEETING REQUIREMENTS OF THE GUIDE SIGNS FOR WHICH THEY ARE TO BE APPLIED; GROUND MOUNT ASTM TYPE IX (9) OR OVERHEAD ASTM TYPE XI (11).

F) LOGOS AND / OR GRAPHICS - WITHIN SIGNS SHALL FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.

G) SPECIFIC SERVICE (LOGO) SIGNING - ALL COPY, DIVIDER BORDERS, LOGOS AND ARROWS SHALL BE DEMOUNTABLE ALUMINUM OVERLAYS. .032 MINIMUM TO .063 MAXIMUM. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). DISTANCES ON DIRECTIONAL ARROWS WHEN SPECIFIED SHALL BE BLACK. THE OVERLAYS ARE TO BE APPLIED WITH .125 ALUMINUM POP RIVETS TO THE BODY OF THE MAIN SIGN.

H) CIVIL DEFENSE SIGNS AND OTHER SIGNS - NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE, SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE PROPOSED SIGN.

4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS:

LONGEST DIMENSION	MINIMUM THICKNESS
UP TO 12"	0.040"
GREATER THAN 12" TO 24"	0.063"
GREATER THAN 24" TO 36"	0.080"
GREATER THAN 36" TO 48"	0.100"
OVER 48"	0.125"

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK CONSTRUCTION\13 SN - PAVEMENT MARKINGS & SIGNS\28-281 SN.DWG Last Saved: 10/5/2022 1:49 PM

NO.	REVISION DESCRIPTION	BY	DATE
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
DATE:			
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING 			
Washington County Administrative Annex, Building 747 Northern Avenue, Hagerstown, Maryland, 21742 Phone: 240-313-2660 Fax: 240-313-2401			
INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS STOTLER RD. & HALFWAY BLVD. PAVEMENT MARKING & SIGNAGE NOTES			
SCALE NONE			
SECTION NO. PMS - 01			
SHEET NO. 31 OF 48			
PROJECT NO. 16-045			

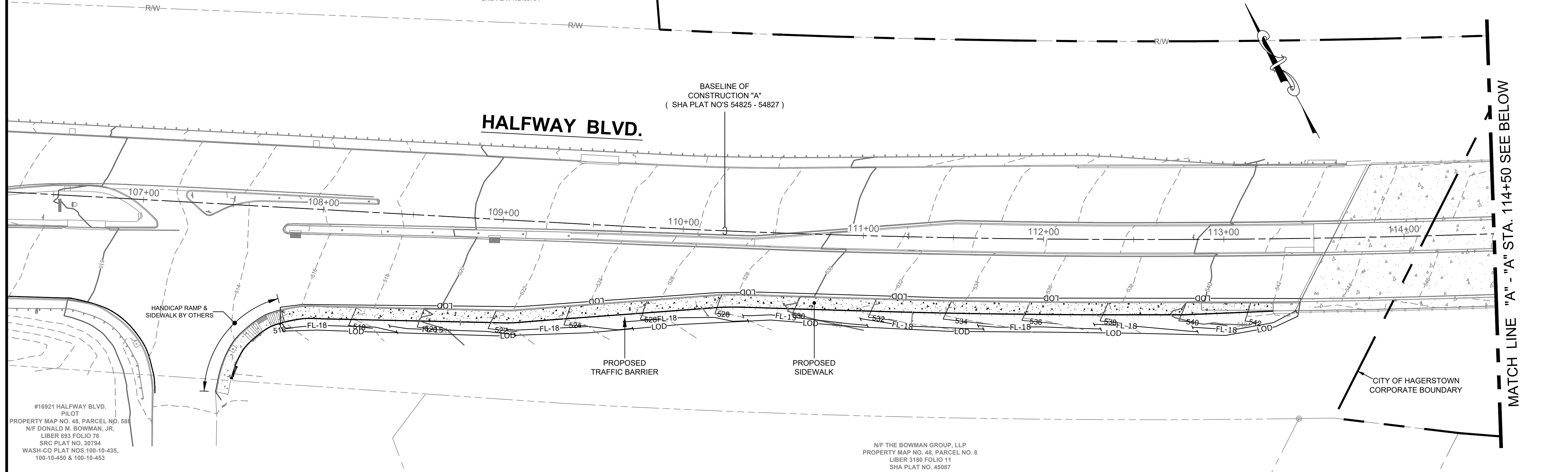
← (HOPEWELL ROAD)

(U.S. ROUTE 81) →

N/F BARBARA STEPHENSEN & RONALD E. BROWN FOUR (4) DEED
PROPERTY MAP NO. 48, PARCEL NO. 7
AS PER LIBER 3642 FOLIO 326 P/O
PLAT NO. 5906-5907 WASH-CO PLAT NOS. 100-10-437, 100-10-450 & 100-10-451
SRC PLAT NO. 30794

CITY OF HAGERSTOWN
CORPORATE BOUNDARY

PROPERTY MAP NO. 48, PARCEL NO. 865
N/F THOMAS BENNETT & HUNTER, INC.
LIBER 5941 FOLIO 192
PLAT NOS. 10632-10635 SRC PLAT NO. 30794



#16921 HALFWAY BLVD.
PILOT
PROPERTY MAP NO. 48, PARCEL NO. 588
N/F DONALD M. BOWMAN, JR.
LIBER 893 FOLIO 76
SRC PLAT NO. 30794
WASH-CO PLAT NOS. 100-10-435,
100-10-450 & 100-10-453

N/F THE BOWMAN GROUP, LLP
PROPERTY MAP NO. 48, PARCEL NO. 8
LIBER 3180 FOLIO 11
SHA PLAT NO. 45087

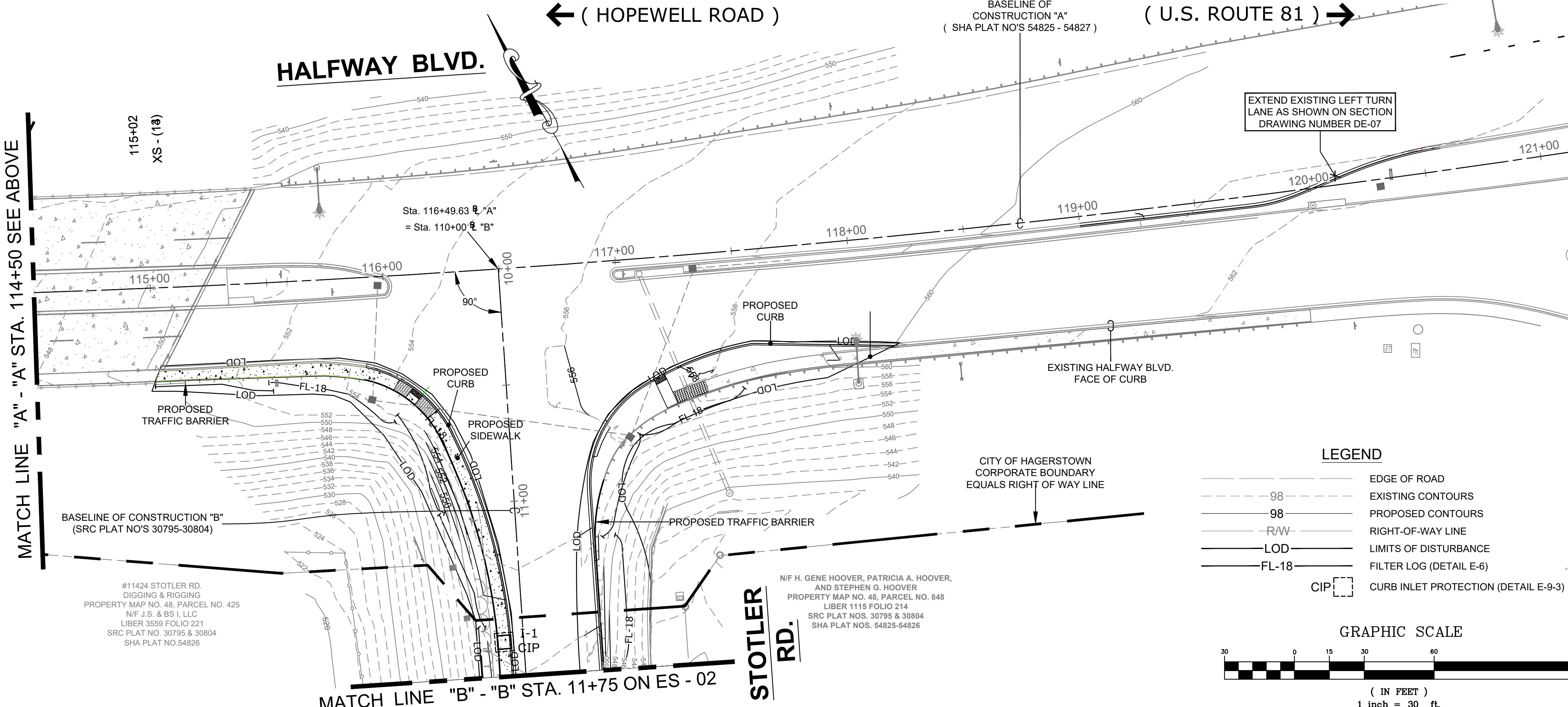
CITY OF HAGERSTOWN
CORPORATE BOUNDARY

MATCH LINE "A" - "A" STA. 114+50 SEE BELOW

HALFWAY BLVD.

← (HOPEWELL ROAD)

(U.S. ROUTE 81) →



EXTEND EXISTING LEFT TURN
LANE AS SHOWN ON SECTION
DRAWING NUMBER DE-07

BASELINE OF
CONSTRUCTION "A"
(SHA PLAT NO'S 54825 - 54827)

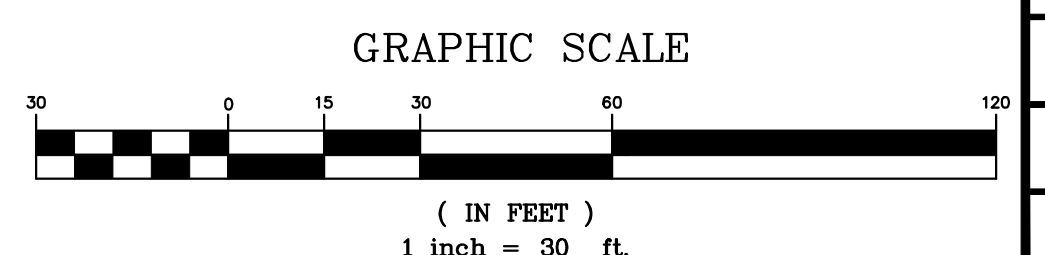
MATCH LINE "A" - "A" STA. 114+50 SEE ABOVE

BASELINE OF CONSTRUCTION "B"
(SRC PLAT NO'S 30795-30804)

CITY OF HAGERSTOWN
CORPORATE BOUNDARY
EQUALS RIGHT OF WAY LINE

LEGEND

- 98 — EDGE OF ROAD
- 98 — EXISTING CONTOURS
- 98 — PROPOSED CONTOURS
- R/W — RIGHT-OF-WAY LINE
- LOD — LIMITS OF DISTURBANCE
- FL-18 — FILTER LOG (DETAIL E-6)
- CIP — CURB INLET PROTECTION (DETAIL E-9-3)



OUTLET PROTECTION			
MODIFIED - SHA 374.68 INLET 5' COG OPENING L = 6'-0 W = 6'-0	Q10 (cfs)	V10 (fps)	
INLET I-1 BASELINE "B" STATION 11+60 RT. USE: TSSM B-4-6-B	0.18	2.6	

CURB INLET PROTECTION			
STATION	AREA (AC)	EA	LOCATION
(INLET - 1) STA. 11+60 @ "B"	0.035	1	RIGHT

FILTER LOG		
STATION	FL-18	AVERAGE SLOPE
STA. 107+80 @ "A" RIGHT TO STA. 113+40 @ "A" RIGHT	567	14:1
STA. 115+00 @ "A" RIGHT TO STA. 11+75 @ "B" RIGHT	229	4:1
STA. 11+75 @ "B" LEFT TO STA. 118+29 @ "A" RIGHT	237	15:1

NOTE: FL TO BE SET IN 50' & 65' LENGTHS PER SLOPE

MATCH LINE "B" - "B" STA. 11+75 ON ES - 02

N/F H. GENE HOOVER, PATRICIA A. HOOVER,
AND STEPHEN G. HOOVER
PROPERTY MAP NO. 48, PARCEL NO. 848
LIBER 1115 FOLIO 214
SRC PLAT NOS. 30795 & 30804
SHA PLAT NOS. 54825-54826

#11424 STOTLER RD.
DIGGING & RIGGING
PROPERTY MAP NO. 48, PARCEL NO. 425
N/F J.S. & B.S.I. LLC
LIBER 3559 FOLIO 221
SRC PLAT NO. 30795 & 30804
SHA PLAT NO. 54826

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK\CONSTRUCTION\ES - EROSION & SEDIMENT CONTROL\28-281 ES.DWG Last Saved: 10/5/2022 1:58 PM

NO.	REVISION DESCRIPTION	DATE

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING
Washington County Administrative Annex, Building
80 W. Baltimore St., Hagerstown, MD 21742
Phone: 240-313-2660 Fax: 240-313-2401

INTERSECTION SIGNAL &
SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
EROSION & SEDIMENT CONTROL

STATE OF MARYLAND
PAMELA JEAN HOGAN
COMMISSIONER
No. 39252
Professional Engineer
No. 722
SCALE
1" = 30'
SECTION NO.
ES - 01
SHEET NO.
36 OF 48
PROJECT NO.
16-045

← (HALFWAY BLVD.)

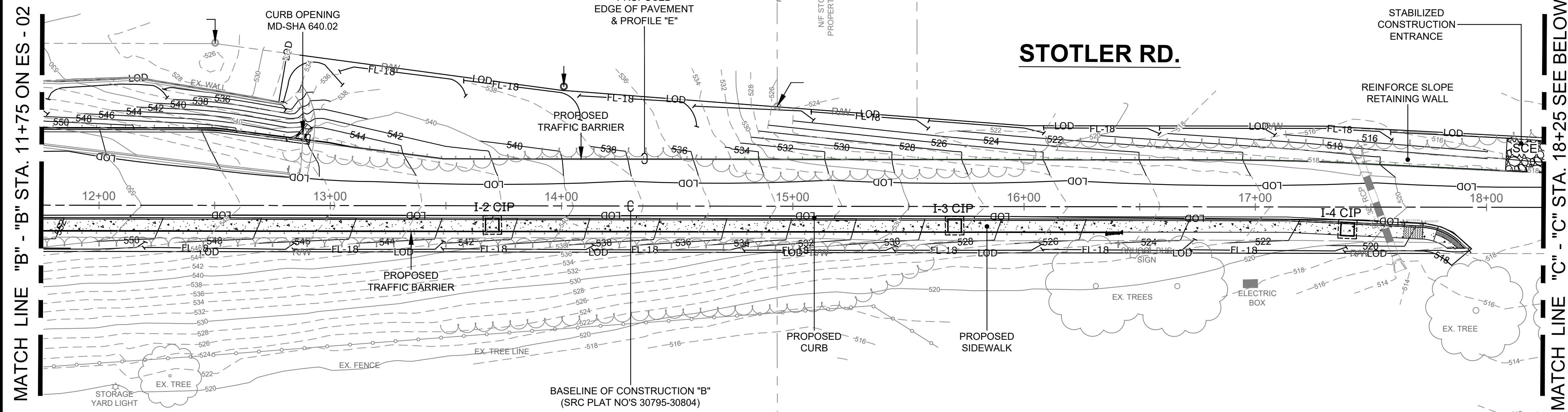
(BENTWOOD DR.) →

NIF H. GENE HOOVER & PATRICIA A. HOOVER, STEPHEN G. HOOVER
PROPERTY MAP NO. 48, PARCEL NO. 848
LIBER 1115 FOLIO 214
SRC PLAT NOS. 30795 & 30804
SHA PLAT NOS. 54825-54826

NIF STOTLER ROAD DEVELOPMENT, LLC
PROPERTY MAP NO. 48, PARCEL NO. 648
LIBER 2202 FOLIO 59

NIF STOTLER ROAD DEVELOPMENT, LLC
PROPERTY MAP NO. 48, PARCEL NO. 518, LLC
LIBER 2202 FOLIO 63

STOTLER RD.



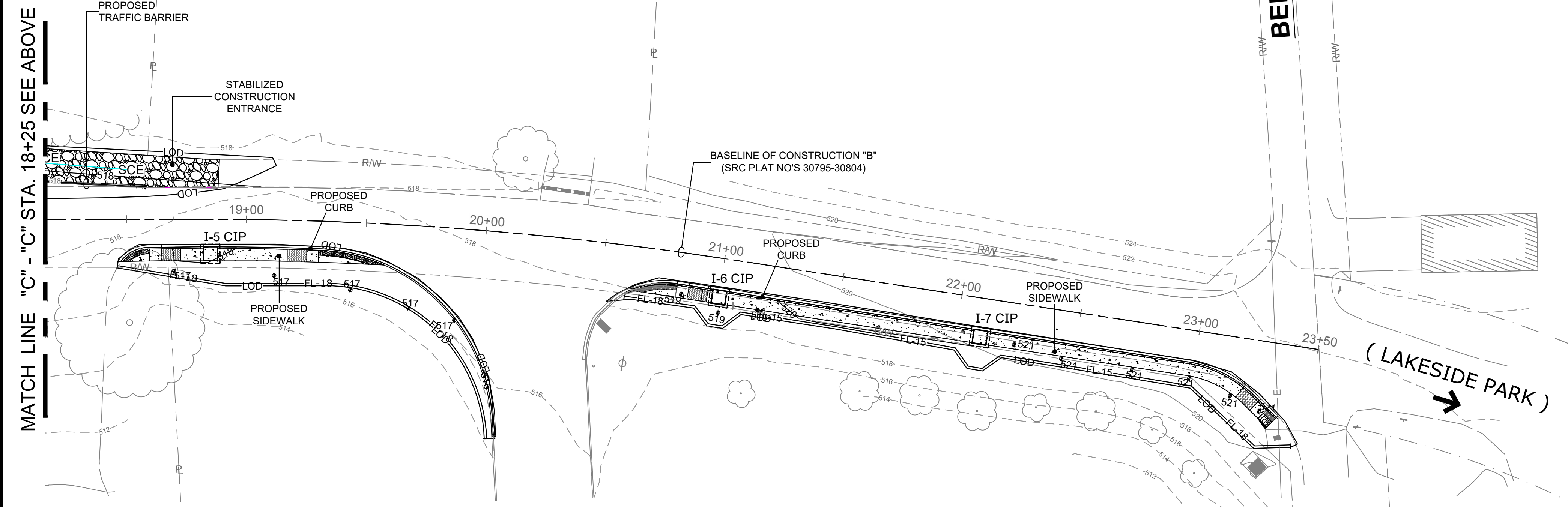
MATCH LINE "B" - "B" STA. 11+75 ON ES - 02

MATCH LINE "C" - "C" STA. 18+25 SEE BELOW

← (HALFWAY BLVD.)

STOTLER ROAD

BENTWOOD DRIVE



MATCH LINE "C" - "C" STA. 18+25 SEE ABOVE

(LAKESIDE PARK) →

STABILIZED CONSTRUCTION ENTRANCE	
STATION	
STA. 18+73 @ "B" LEFT	

FILTER LOG		FL-18	AVERAGE SLOPE
STATION		LF	
STA. 11+75 @ "B" LEFT TO STA. 14+75 @ "B" LEFT		323	2:1
STA. 14+75 @ "B" LEFT TO STA. 18+00 @ "B" LEFT		327	1.5:1
STA. 18+00 @ "B" LEFT TO STA. 19+11 @ "B" LEFT		113	2:1
STA. 11+75 @ "B" RIGHT TO STA. 17+85 @ "B" RIGHT		613	14:1
STA. 18+46 @ "B" RIGHT TO STA. 20+08 @ "B" RIGHT		191	20:1
STA. 20+60 @ "B" RIGHT TO STA. 23+45 @ "B" RIGHT		302	20:1

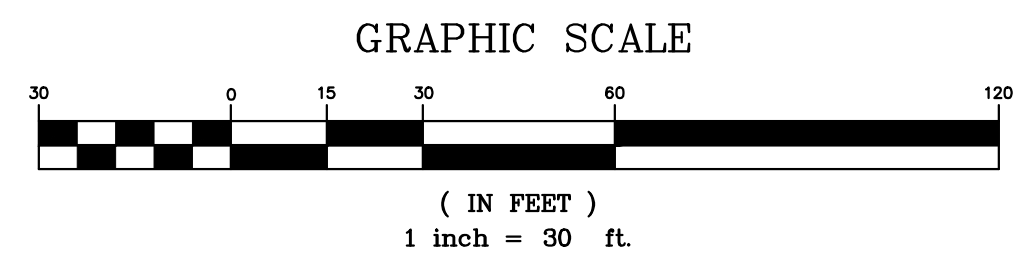
NOTE: FL TO BE SET IN 50' & 65' LENGTHS PER SLOPE

CURB INLET PROTECTION			
STATION	AREA (AC)	EA	LOCATION
(INLET - 2) STA. 13+70 @ "B"	0.055	1	RIGHT
(INLET - 3) STA. 15+70 @ "B"	0.053	1	RIGHT
(INLET - 4) STA. 17+40 @ "B"	0.053	1	RIGHT
(INLET - 5) STA. 18+85 @ "B"	0.032	1	RIGHT
(INLET - 6) STA. 21+00 @ "B"	0.049	1	RIGHT
(INLET - 7) STA. 22+10 @ "B"	0.049	1	RIGHT

OUTLET PROTECTION		
	Q10 (cfs)	V10 (fps)
MODIFIED - SHA 374.68 INLET 5' COG OPENING L = 6'-0 W = 6'-0		
INLET I-2 BASELINE "B" STATION 13+70 RT. USE: TSSM B-4-6-B	0.23	3.6
INLET I-3 BASELINE "B" STATION 15+70 RT. USE: TSSM B-4-6-B	0.26	3.8
INLET I-4 BASELINE "B" STATION 17+40 RT. USE: TSSM B-4-6-B	0.31	3.4
INLET I-5 BASELINE "B" STATION 18+85 RT. USE: TSSM B-4-6-B	0.31	2.2
INLET I-6 BASELINE "B" STATION 21+00 RT. USE: TSSM B-4-6-B	0.27	2.6
INLET I-7 BASELINE "B" STATION 22+10 RT. USE: TSSM B-4-6-B	0.24	2.5
EX 36" RCP WITH STABLE GRASS OUTFALL * DO NOT DISTURB OUTFALL	15	7
MD-SHA 640.02 CURB OPENING BASELINE "B" STATION 12+86 LT. USE: TSSM B-4-6-B	1.08	9

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE (DETAIL B-1)
- EDGE OF ROAD
- EXISTING CONTOURS
- PROPOSED CONTOURS
- RIGHT-OF-WAY LINE
- LIMITS OF DISTURBANCE
- FILTER LOG (DETAIL E-6)
- CURB INLET PROTECTION (DETAIL E-9-3)



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DATE	
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DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
P.J.M.	
P.J.M.	
P.J.M.	
DATE:	09-15-22

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
80 W. Baltimore St., Hagerstown, MD 21742
Phone: 240-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
EROSION & SEDIMENT CONTROL

STATE OF MARYLAND
PAMELA JEAN WOHN
No. 39257
Professional Engineer
Professional Seal No. 722

SCALE
1" = 30'

SECTION NO.
ES - 02

SHEET NO.
37 OF 48

PROJECT NO.
16-045

K:\CADD\28-281-STOTTLER ROAD ADA SIDEWALK\CONSTRUCTION\9 ES - EROSION & SEDIMENT CONTROL\28-281-ES.DWG Last Saved: 10/5/2022 2:02 PM

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE

CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-4-6-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION

STANDARD SYMBOL: TSSMS - * lb/ft² (* INCLUDE SHEAR STRESS)

CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDBED SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
- KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SEE SHEET DE-08 FOR MECHANICALLY STABILIZED EARTH SLOPE DETAILS

DETAIL E-6 FILTER LOG

STANDARD SYMBOL: FL-18
 DESIGNATION FL-18 REFERS TO 18 INCH DIAMETER FILTER LOG.

CONSTRUCTION SPECIFICATIONS

- PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LOG.
- FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE WITH SECTION H-1 MATERIALS), OR OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
- INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE WITH THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SLOPE CREATING A "J" SHAPE AT EACH END TO PREVENT BYPASS.
- FOR UNTRRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST ON UPHILL SIDE OF THE SLOPE ALONG LOG.
- STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENGTH OF LOG OR TRENCH LOG INTO GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FEET OR CLOSER.
- USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND OF SUFFICIENT LENGTH TO ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRUDING ABOVE LOG.
- WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM AND STAKE.
- REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF 1/2 THE EXPOSED HEIGHT OF LOG AND REPLACE MULCH. REPLACE FILTER LOG IF TORN, REINSTALL FILTER LOG IF UNDERMINING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER LOGS. FOR PERMANENT APPLICATIONS, ESTABLISH AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-6 FILTER LOG

STANDARD SYMBOL: FL-18
 DESIGNATION FL-18 REFERS TO 18 INCH DIAMETER FILTER LOG.

CONSTRUCTION SPECIFICATIONS

- PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LOG.
- FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE WITH SECTION H-1 MATERIALS), OR OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
- INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE WITH THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SLOPE CREATING A "J" SHAPE AT EACH END TO PREVENT BYPASS.
- FOR UNTRRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST ON UPHILL SIDE OF THE SLOPE ALONG LOG.
- STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENGTH OF LOG OR TRENCH LOG INTO GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FEET OR CLOSER.
- USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND OF SUFFICIENT LENGTH TO ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRUDING ABOVE LOG.
- WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM AND STAKE.
- REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF 1/2 THE EXPOSED HEIGHT OF LOG AND REPLACE MULCH. REPLACE FILTER LOG IF TORN, REINSTALL FILTER LOG IF UNDERMINING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER LOGS. FOR PERMANENT APPLICATIONS, ESTABLISH AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL: CIP

MAXIMUM DRAINAGE AREA = 1/4 ACRE

CONSTRUCTION SPECIFICATIONS

- USE NOMINAL 2 INCH x 4 INCH LUMBER
- USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
- ATTACH A CONTINUOUS PIECE OF 3/4 INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
- PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
- PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
- INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
- FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
- AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
- STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DATE	
BY	
REVISION DESCRIPTION	
NO	
DESIGNED BY: P.J.M.	
DRAWN BY: C.L.J.	
CHECKED BY: P.J.M.	
DATE: 09-15-22	

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
 80 W. Baltimore St., Hagerstown, MD 21742
 Phone: 240-313-2460 Fax: 240-313-2401

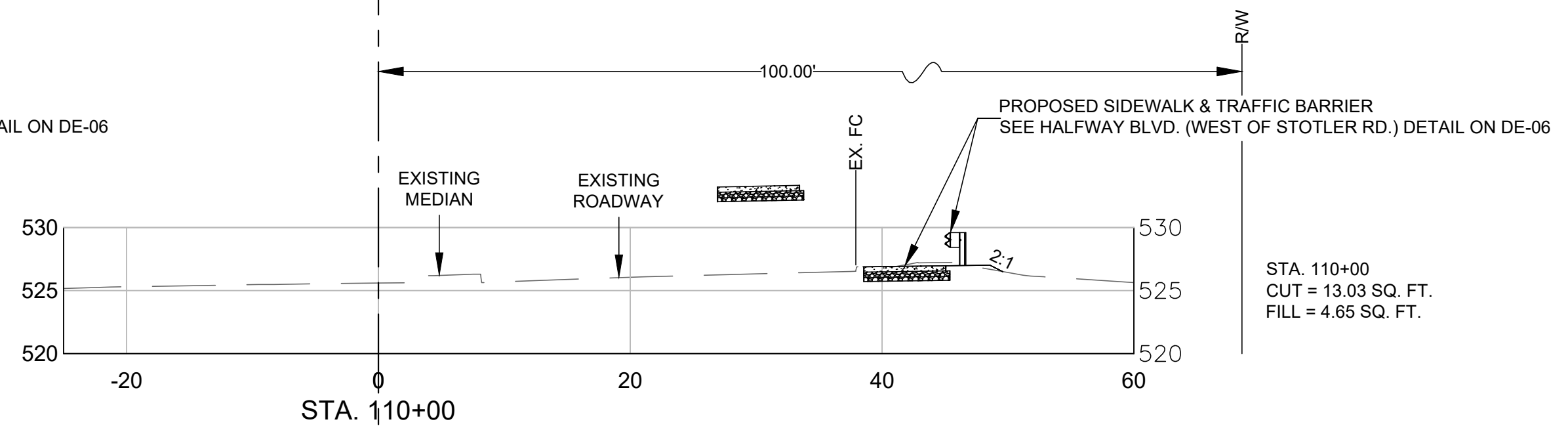
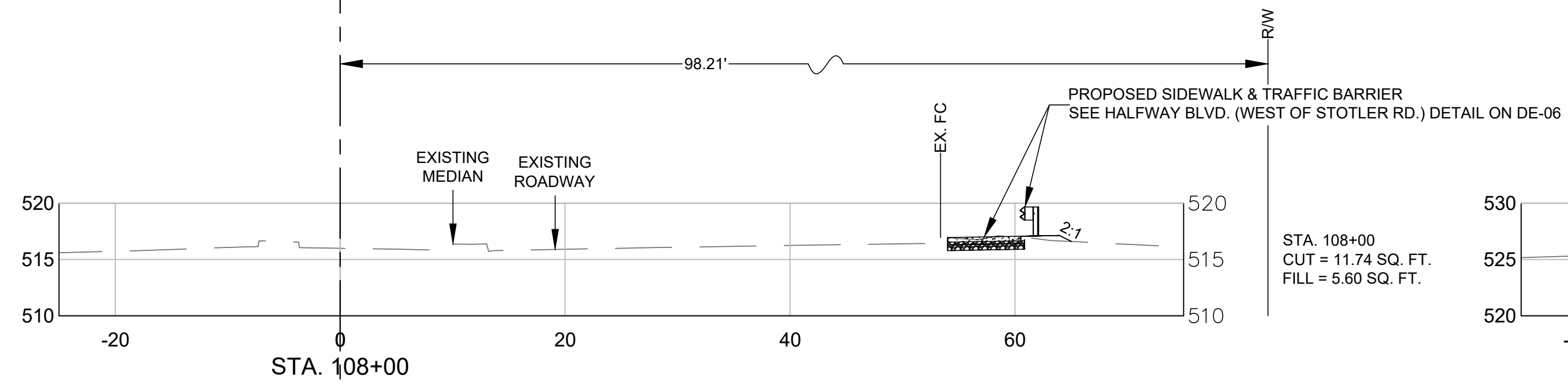
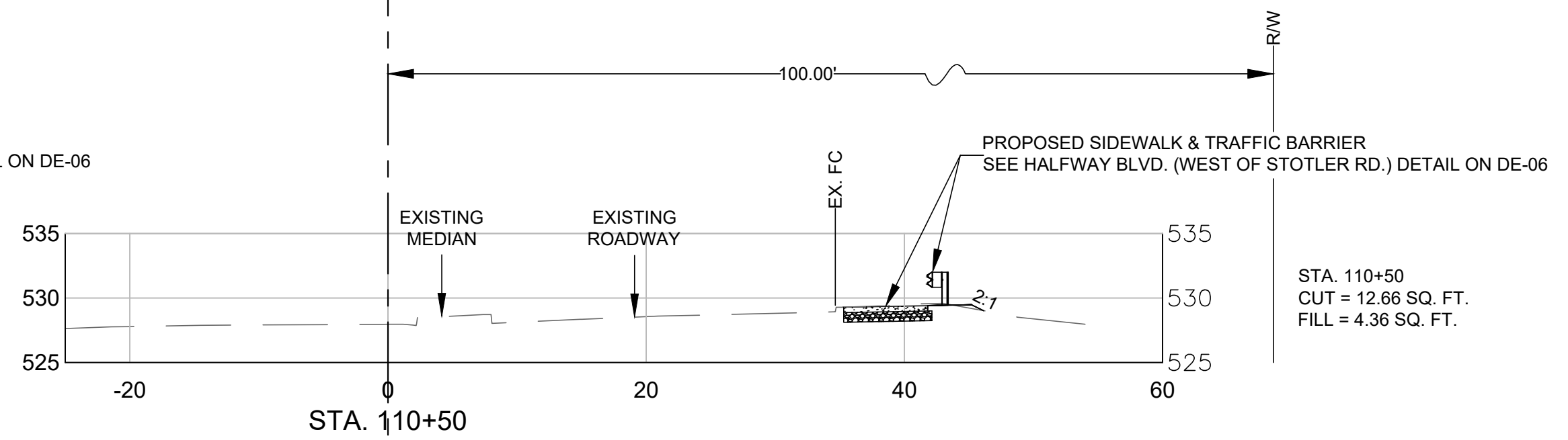
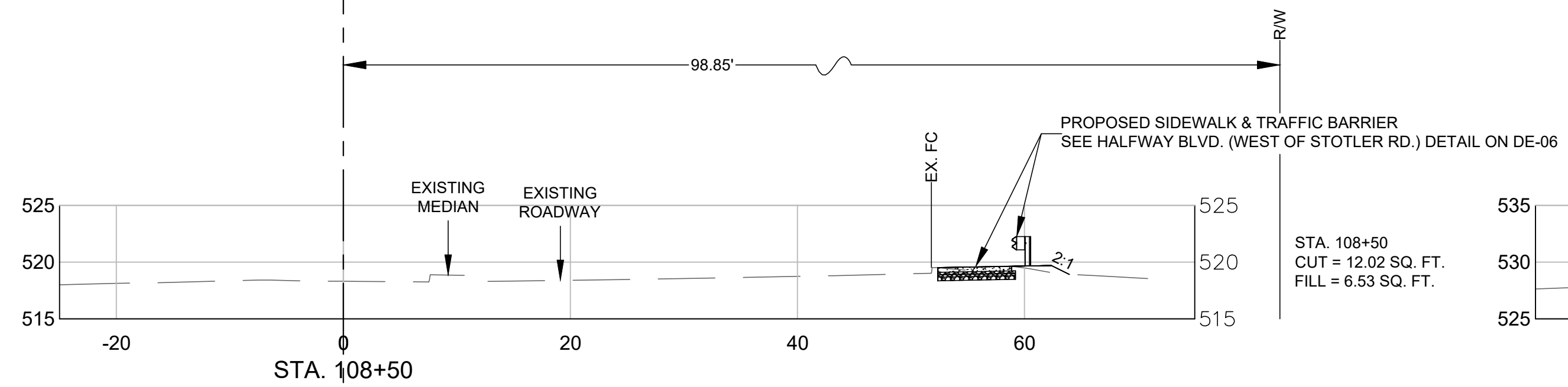
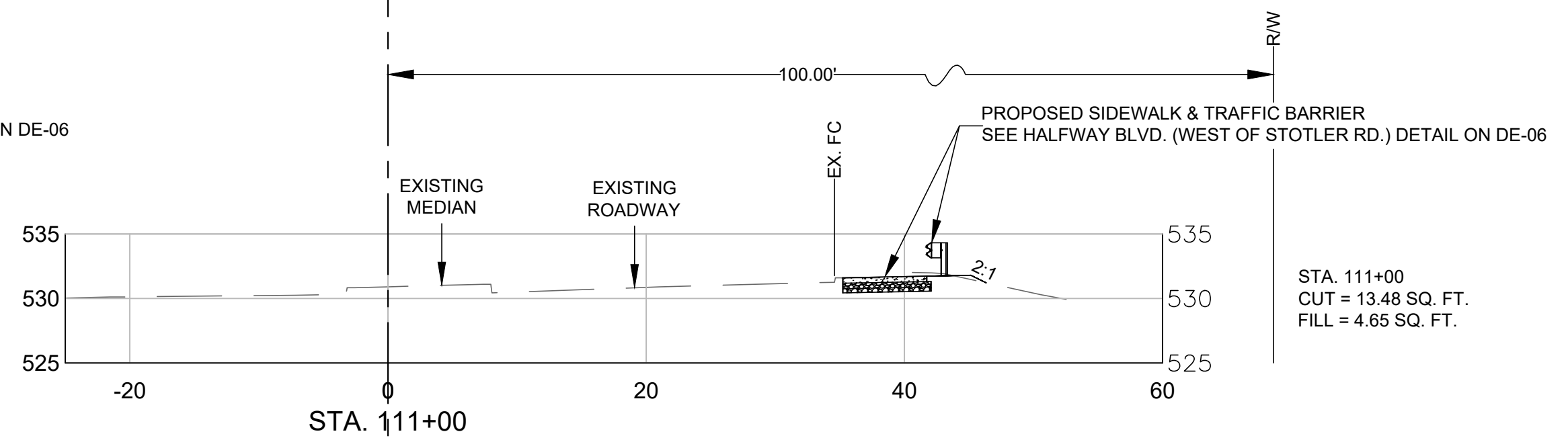
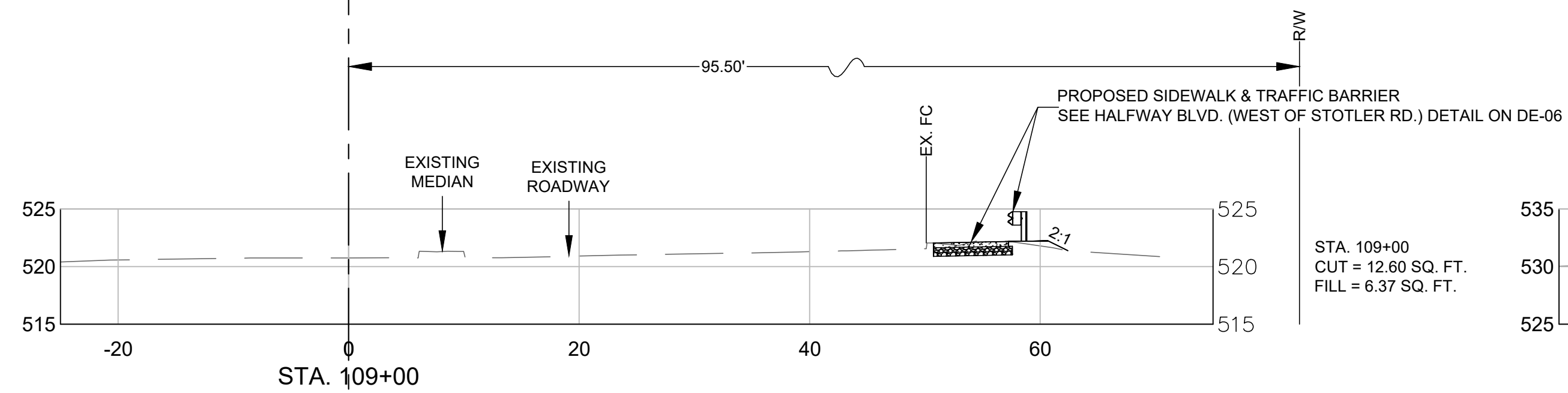
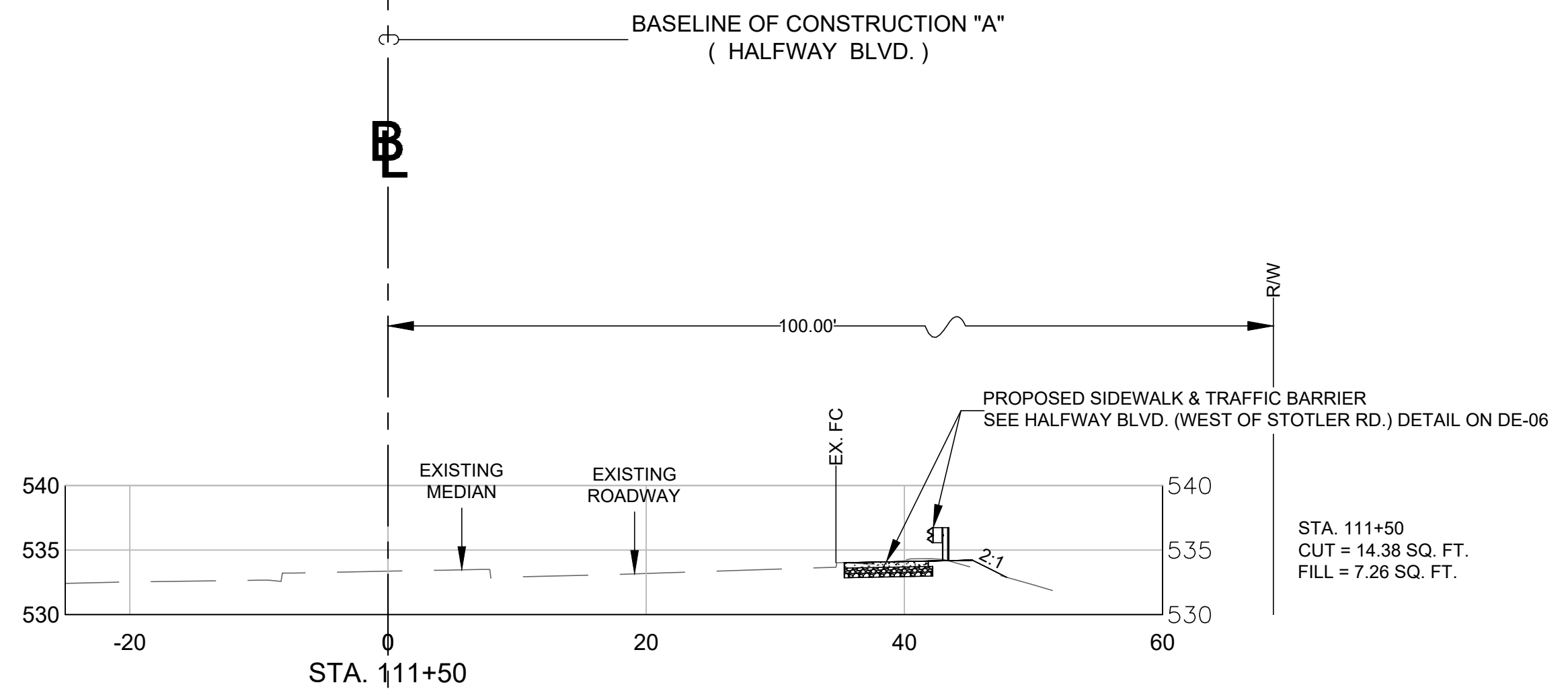
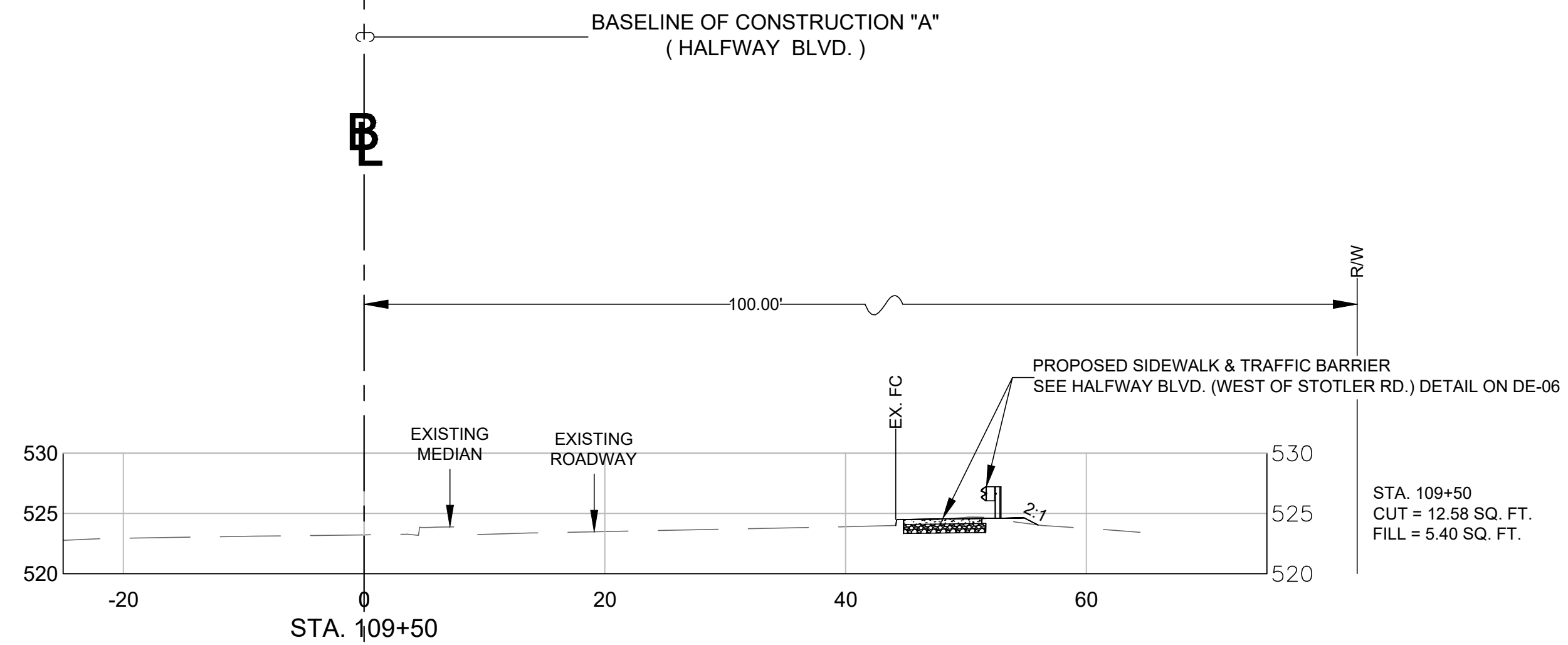
INTERSECTION SIGNAL & SIDEWALK IMPROVEMENTS
 STOTTLER RD. & HALFWAY BLVD.
 EROSION & SEDIMENT CONTROL DETAILS

STATE OF MARYLAND
 PAMELA JEAN MOIN
 PROFESSIONAL ENGINEER
 No. 39057
 Expiration Date 07/22

SCALE: NONE

SECTION NO. ES - 04
 SHEET NO. 39 OF 48
 PROJECT NO. 16-045

K:\CADD\28-281 STOTLER ROAD ADA SIDEWALK CONSTRUCTION\15 CS - CROSS SECTIONS\28-281 CS.DWG Last Saved: 10/5/2022 2:06 PM



NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: P.J.M.
DRAWN BY: G.L.J.
CHECKED BY: P.J.M.
DATE: 09-15-22

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
747 Northern Avenue, Hagerstown, Maryland, 21742
Phone: 250-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL &
SIDEWALK IMPROVEMENTS
STOTLER RD. & HALFWAY BLVD.
CROSS SECTIONS STA. 108+00 TO STA. 111+50

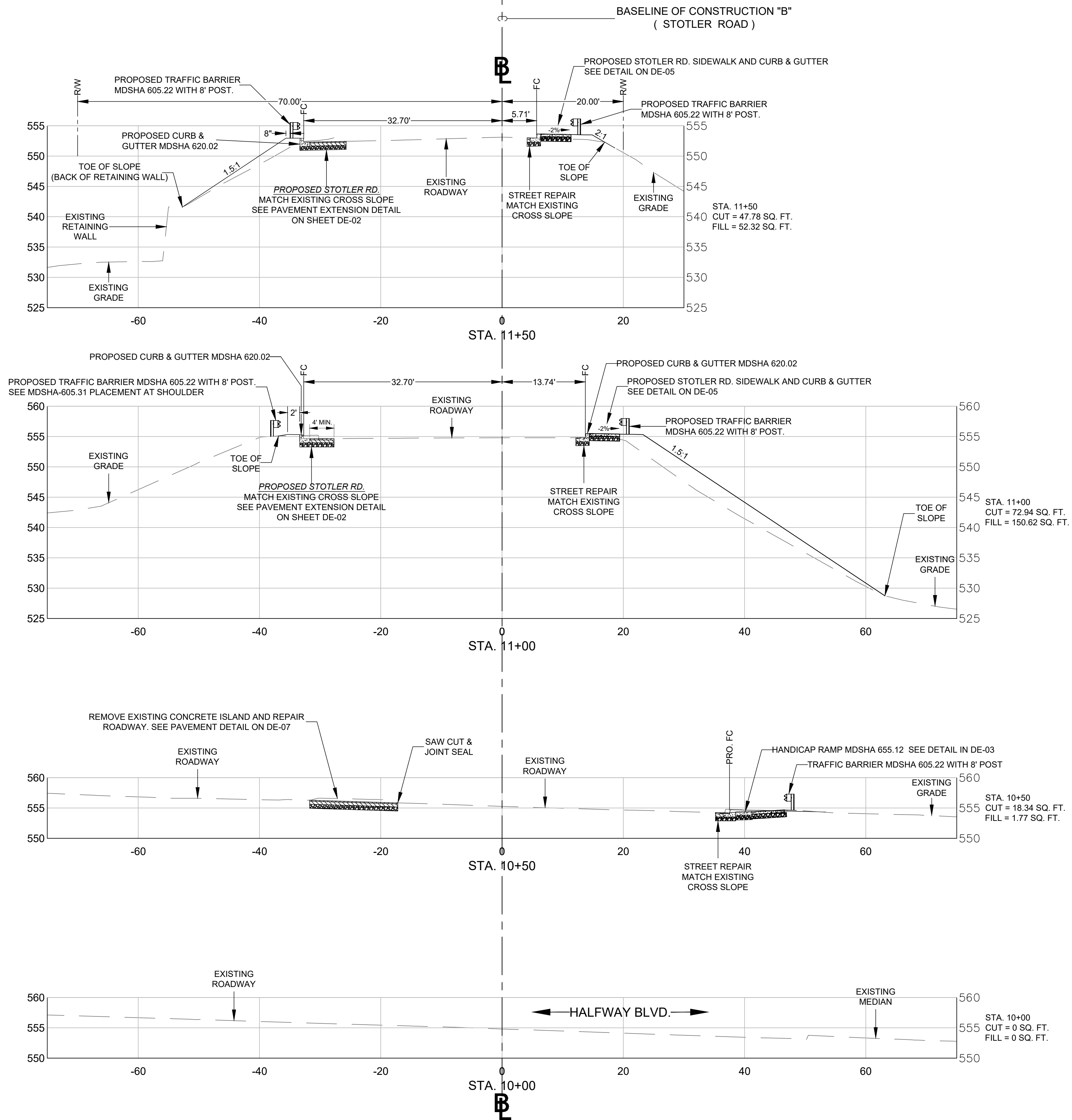
SCALE
1" = 10'

SECTION NO.
CS - 01

SHEET NO.
40 OF 48

PROJECT NO.
16-045

K:\CADD\28-281 STOTTLER ROAD ADA SIDEWALK CONSTRUCTION\15 CS - CROSS SECTIONS\28-281 CS.DWG Last Saved: 10/5/2022 2:08 PM



NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: P.J.M.
 DRAWN BY: C.L.J.
 CHECKED BY: P.J.M.
 DATE: 09-15-22

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
 747 Northern Avenue, Hagerstown, Maryland, 21742
 Phone: 240-313-2460 Fax: 240-313-2401

INTERSECTION SIGNAL &
 SIDEWALK IMPROVEMENTS
 STOTTLER RD. & HALFWAY BLVD.
 CROSS SECTIONS STA. 10+00 TO STA. 11+50

SCALE
 1" = 10'

SECTION NO.
 CS - 04

SHEET NO.
 43 OF 48

PROJECT NO.
 16-045

