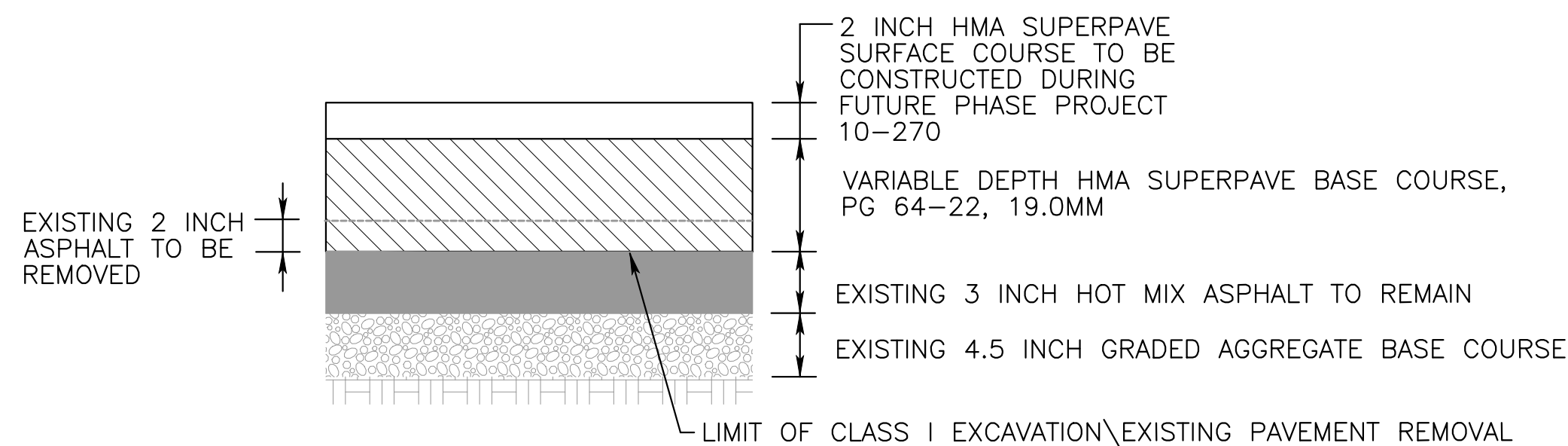
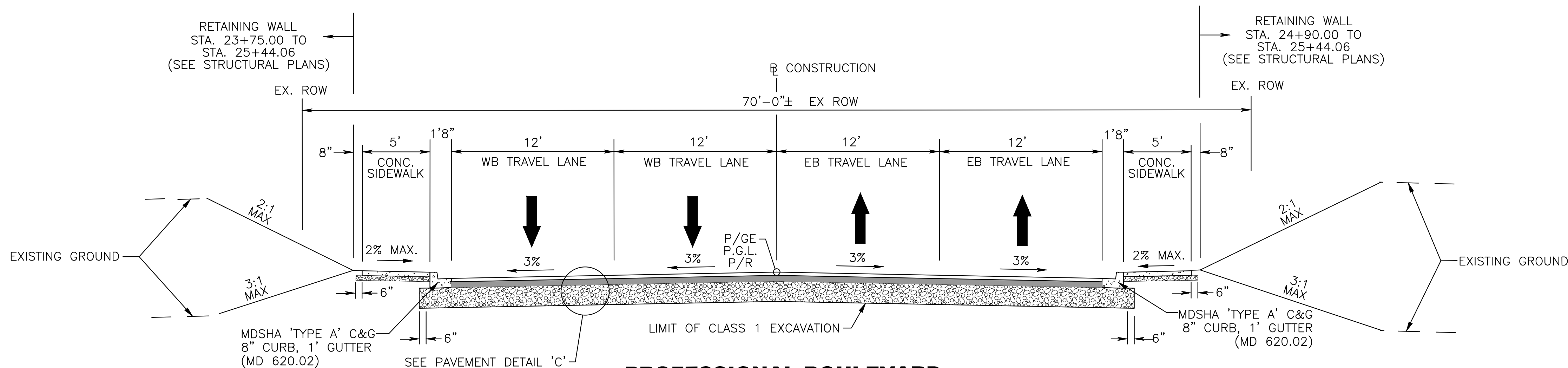


PAVEMENT DETAIL 'C'



PAVEMENT REHABILITATION

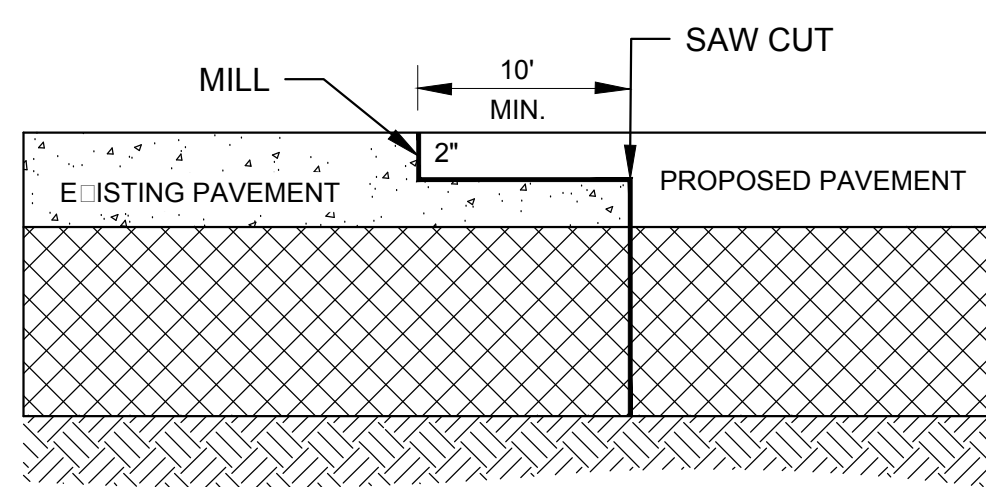
(STATION 21+23.00 TO STATION 22+00.00)



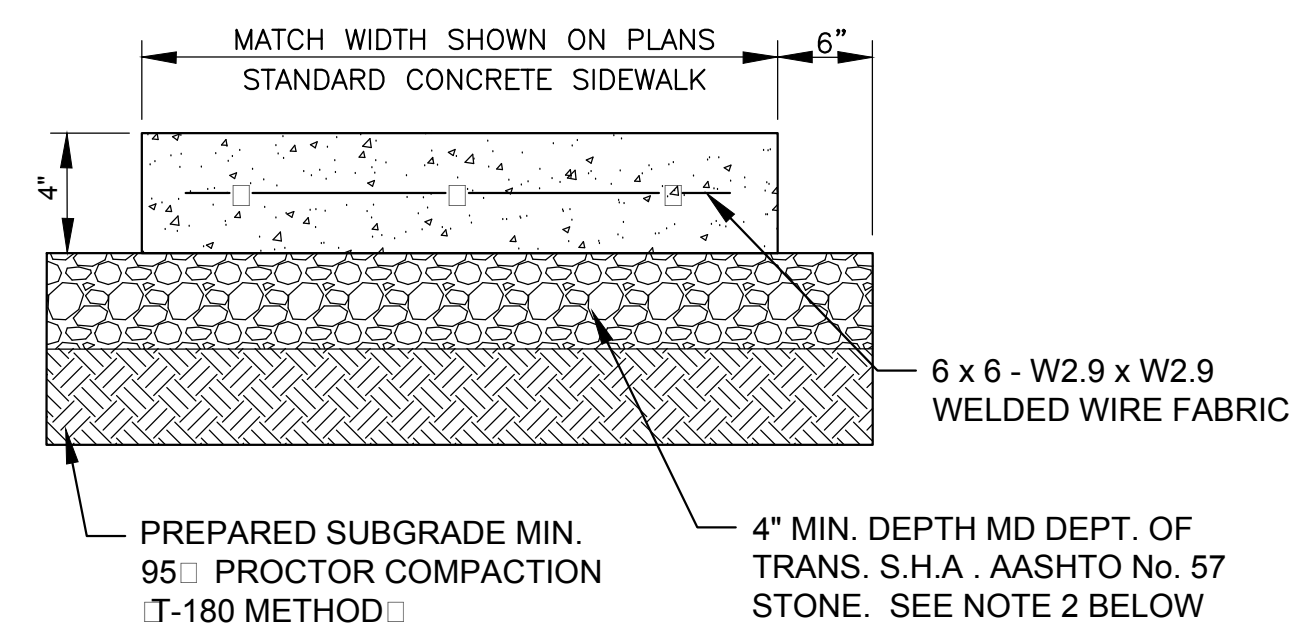
**PROFESSIONAL BOULEVARD
STA. 22+00.00 TO STA. 25+35.68**

NOTES:

1. ALL GRASS AREAS SHALL RECEIVE 4 INCH TOPSOIL AND TURFGRASS ESTABLISHMENT/TURFGRASS SOD ESTABLISHMENT. SEE LANDSCAPE PLANS FOR LOCATION.
2. CONTRACTOR SHALL INSTALL 4 INCHES OF AASHTO #57 STONE BENEATH 4 INCH CONCRETE SIDEWALK. AASHTO #57 STONE SHALL BE INCIDENTAL TO CONCRETE SIDEWALK PAY ITEM.
3. MARYLAND SHA TYPE A CURB & GUTTER TO BE CONSTRUCTED WITH 9 INCH CONCRETE GUTTER DEPTH



**MILL DETAIL
NOT TO SCALE**



**CONCRETE SIDEWALK
NOT TO SCALE**

NOTES:

1. CONCRETE FOR STANDARD SIDEWALK SHALL BE S.H.A. MIX No. 3 WITH A 28 DAY COMPRESSIVE STRENGTH OF 3500 P.S.I. AND 6% AIR ENTRAINMENT. ALL EXPOSED SURFACES SHALL RECEIVE LIGHT TRANSVERSE BROOM FINISH. ALL STANDARD SIDEWALK SHALL BE 4" DEEP AND SHALL BE PLACED ON A BED OF 4" MIN. DEPTH AASHTO No. 57 STONE. TRANSVERSE 1/2" BITUMINOUS EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF 40 FEET. TOOLED TRANSVERSE JOINTS SHALL BE INSTALLED EVERY 5 FEET SO AS TO CREATE SIDEWALK SQUARES AND EVENLY DIVIDED TO THE 40 FEET BETWEEN THE EXPANSION JOINTS.
2. No. 57 STONE SHALL BE AGITATED, VIBRATED, OR OTHERWISE SETTLED IN PLACE.
3. SIDEWALK SHALL HAVE A 2% CROSS SLOPE DRAINING TOWARDS THE ROADWAY.
4. PRICE AND QUANTITY OF STONE BASE INCIDENTAL TO SIDEWALK.

ADDENDUM NO. 3
ATTACHMENT C
Sheet 1 of 37



NO.	REVISION DESCRIPTION	BY	DATE
3	REVISED NOTE 1	TMB	

DESIGNED BY: TMB
 DRAWN BY: TMB
 CHECKED BY:
 DATE: APRIL 2019

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

**PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK**

TYPICAL SECTION

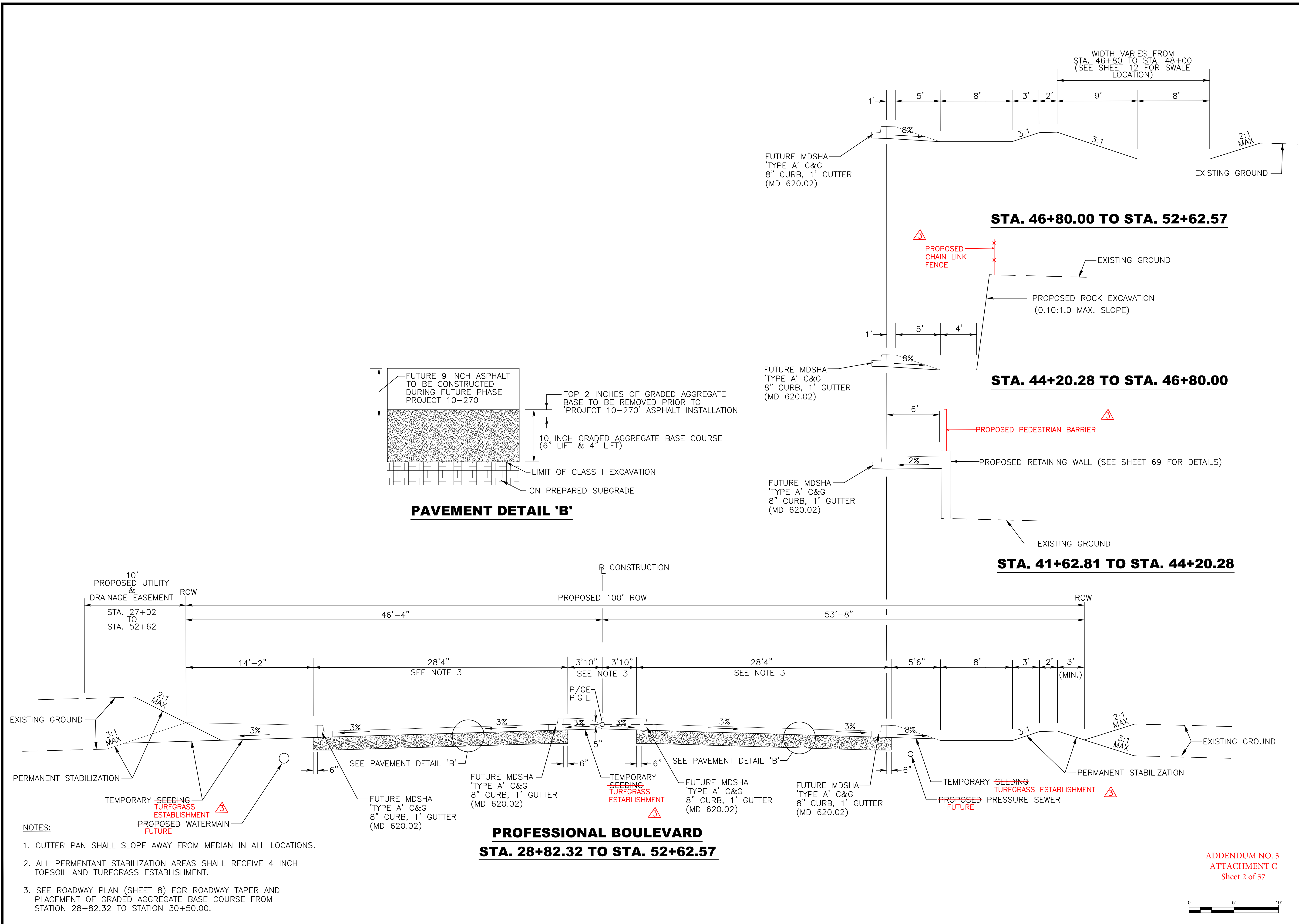
SCALE
1"=5'

SHEET NO.
4 OF 145

PROJECT NO.
10-244

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\\bair01\2014\2014\14187_WashCoProf\CAOD\DWG_plans\TS-05.dwg



PAVEMENT DETAIL 'B'

**PROFESSIONAL BOULEVARD
STA. 28+82.32 TO STA. 52+62.57**

- NOTES:**
- GUTTER PAN SHALL SLOPE AWAY FROM MEDIAN IN ALL LOCATIONS.
 - ALL PERMENTANT STABILIZATION AREAS SHALL RECEIVE 4 INCH TOPSOIL AND TURFGRASS ESTABLISHMENT.
 - SEE ROADWAY PLAN (SHEET 8) FOR ROADWAY TAPER AND PLACEMENT OF GRADED AGGREGATE BASE COURSE FROM STATION 28+82.32 TO STATION 30+50.00.

ADDENDUM NO. 3
ATTACHMENT C
Sheet 2 of 37

DATE	
BY	TMB
REVISION DESCRIPTION	
NO.	REVISD LABELS
DESIGNED BY:	TMB
DRAWN BY:	TMB
CHECKED BY:	
DATE	APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

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80 W. Baltimore St., Hagerstown, MD 21740
Phone: 240-313-2460 Fax: 240-313-2401

PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK

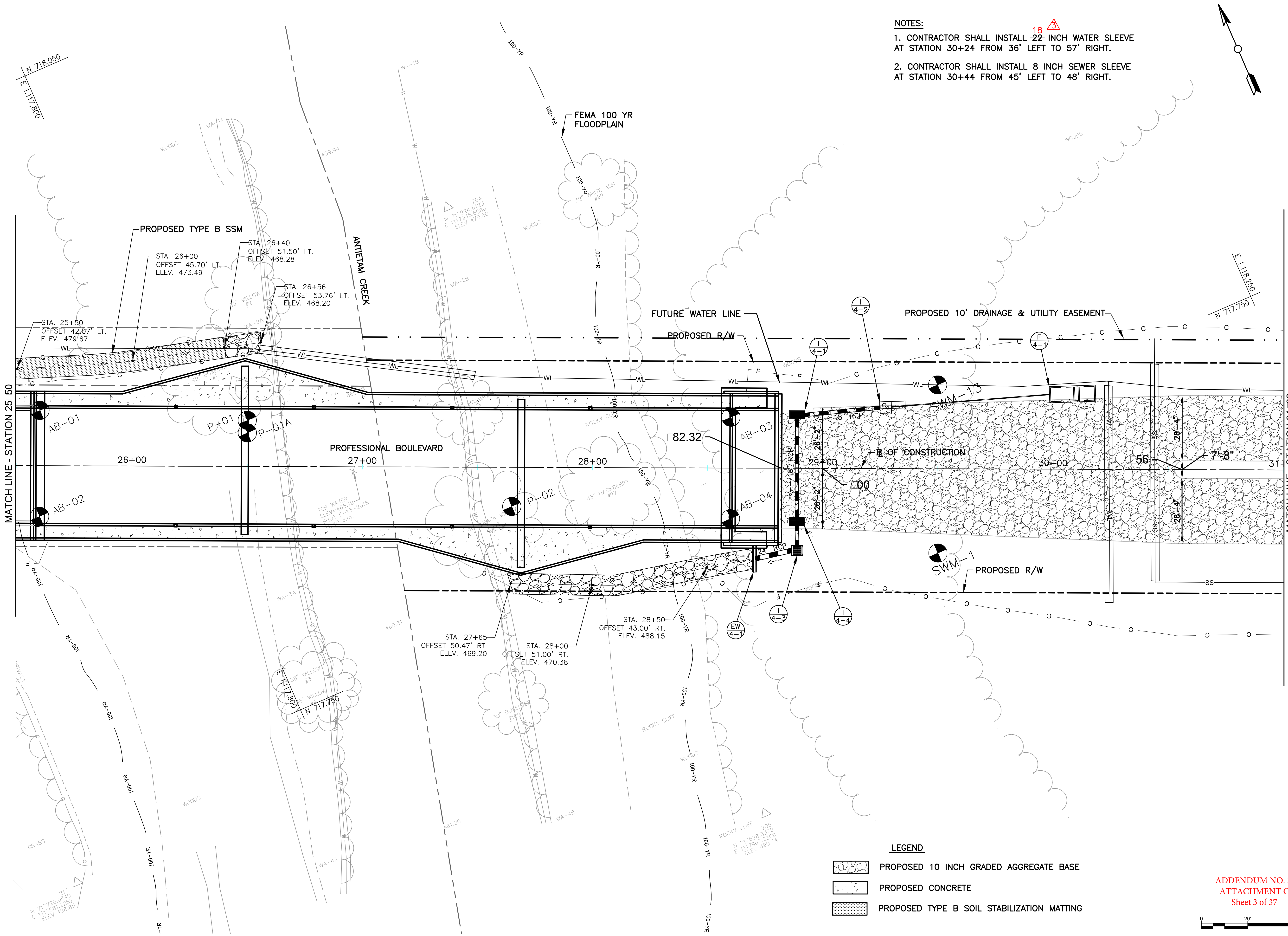
TYPICAL SECTION

SCALE
1"=5'

SHEET NO.
5 OF 145

PROJECT NO.
10-244

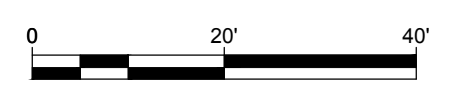
\\balsrv01\2014\2014\14187_WashCoProf\CADD\DWG_plans\PS-04_PH1.dwg



- NOTES:**
- CONTRACTOR SHALL INSTALL 18" Δ 22 INCH WATER SLEEVE AT STATION 30+24 FROM 36' LEFT TO 57' RIGHT.
 - CONTRACTOR SHALL INSTALL 8 INCH SEWER SLEEVE AT STATION 30+44 FROM 45' LEFT TO 48' RIGHT.

- LEGEND**
- PROPOSED 10 INCH GRADED AGGREGATE BASE
 - PROPOSED CONCRETE
 - PROPOSED TYPE B SOIL STABILIZATION MATTING

ADDENDUM NO. 3
ATTACHMENT C
Sheet 3 of 37



NO.	REVISION DESCRIPTION	BY	DATE
3	REVISED SLEEVE SIZE	TMB	
DESIGNED BY:	TMB		
DRAWN BY:	TMB		
CHECKED BY:			
DATE:	APRIL 2019		

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

**PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK**

ROADWAY PLAN

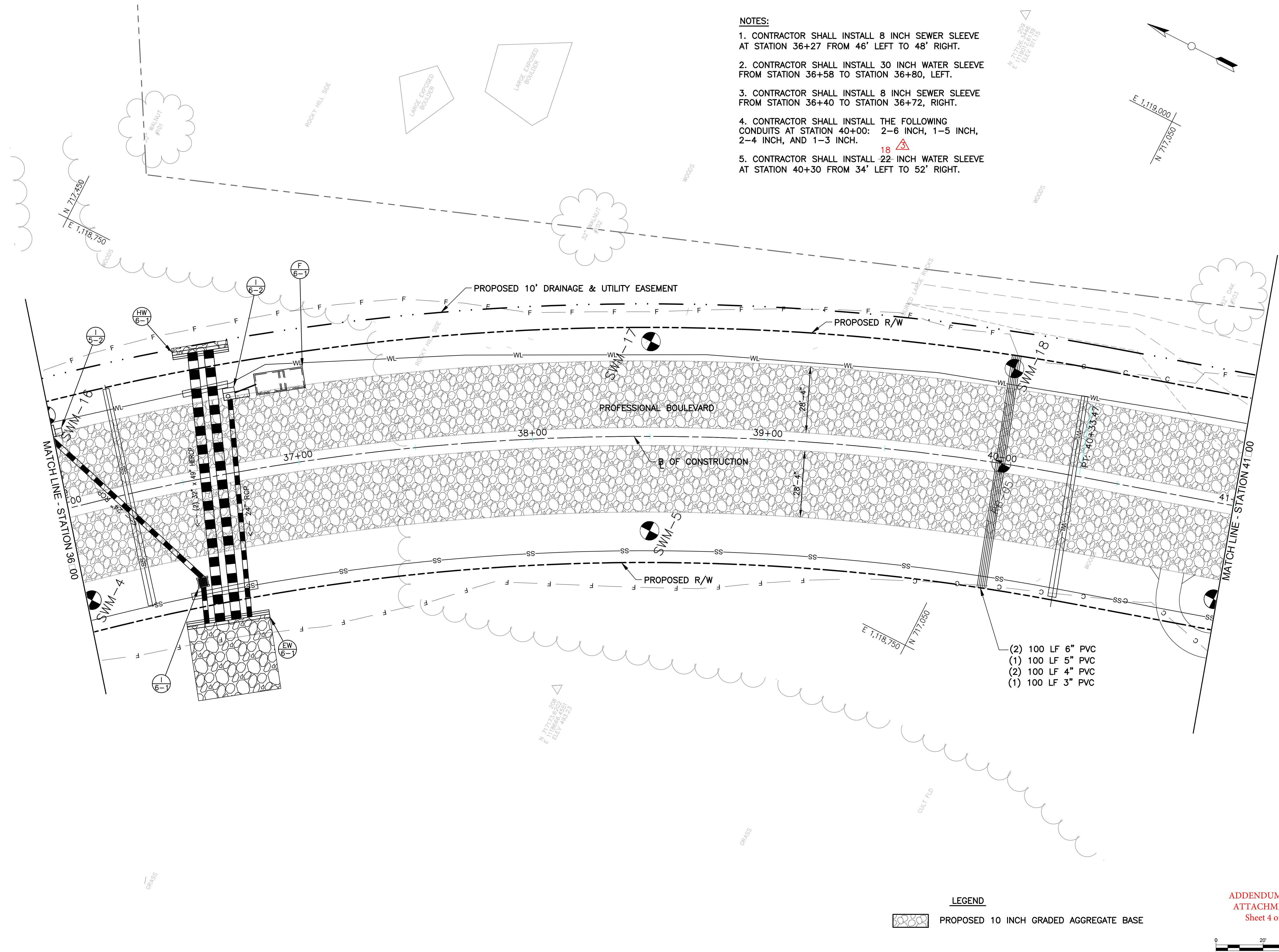
STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 2244

SCALE
1"=20'

SHEET NO.
8 OF 145

PROJECT NO.
10-244

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- NOTES:**
1. CONTRACTOR SHALL INSTALL 8 INCH SEWER SLEEVE AT STATION 36+27 FROM 46' LEFT TO 48' RIGHT.
 2. CONTRACTOR SHALL INSTALL 30 INCH WATER SLEEVE FROM STATION 36+58 TO STATION 36+80, LEFT.
 3. CONTRACTOR SHALL INSTALL 8 INCH SEWER SLEEVE FROM STATION 36+40 TO STATION 36+72, RIGHT.
 4. CONTRACTOR SHALL INSTALL THE FOLLOWING CONDUITS AT STATION 40+00: 2-6 INCH, 1-5 INCH, 2-4 INCH, AND 1-3 INCH.
 5. CONTRACTOR SHALL INSTALL 22- INCH WATER SLEEVE AT STATION 40+30 FROM 34' LEFT TO 52' RIGHT.

- (2) 100 LF 6" PVC
- (1) 100 LF 5" PVC
- (2) 100 LF 4" PVC
- (1) 100 LF 3" PVC

LEGEND
 PROPOSED 10 INCH GRADED AGGREGATE BASE

ADDENDUM NO. 3
ATTACHMENT C
 Sheet 4 of 37

SCALE
 1"=20'

SHEET NO.
 10 OF 145

PROJECT NO.
 10-244

DESIGNED BY: TMB	NO. 3	REVISION DESCRIPTION REVISED SLEEVE SIZE	BY TMB	DATE
DRAWN BY: TMB				
CHECKED BY:				
DATE				APRIL 2019


WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING

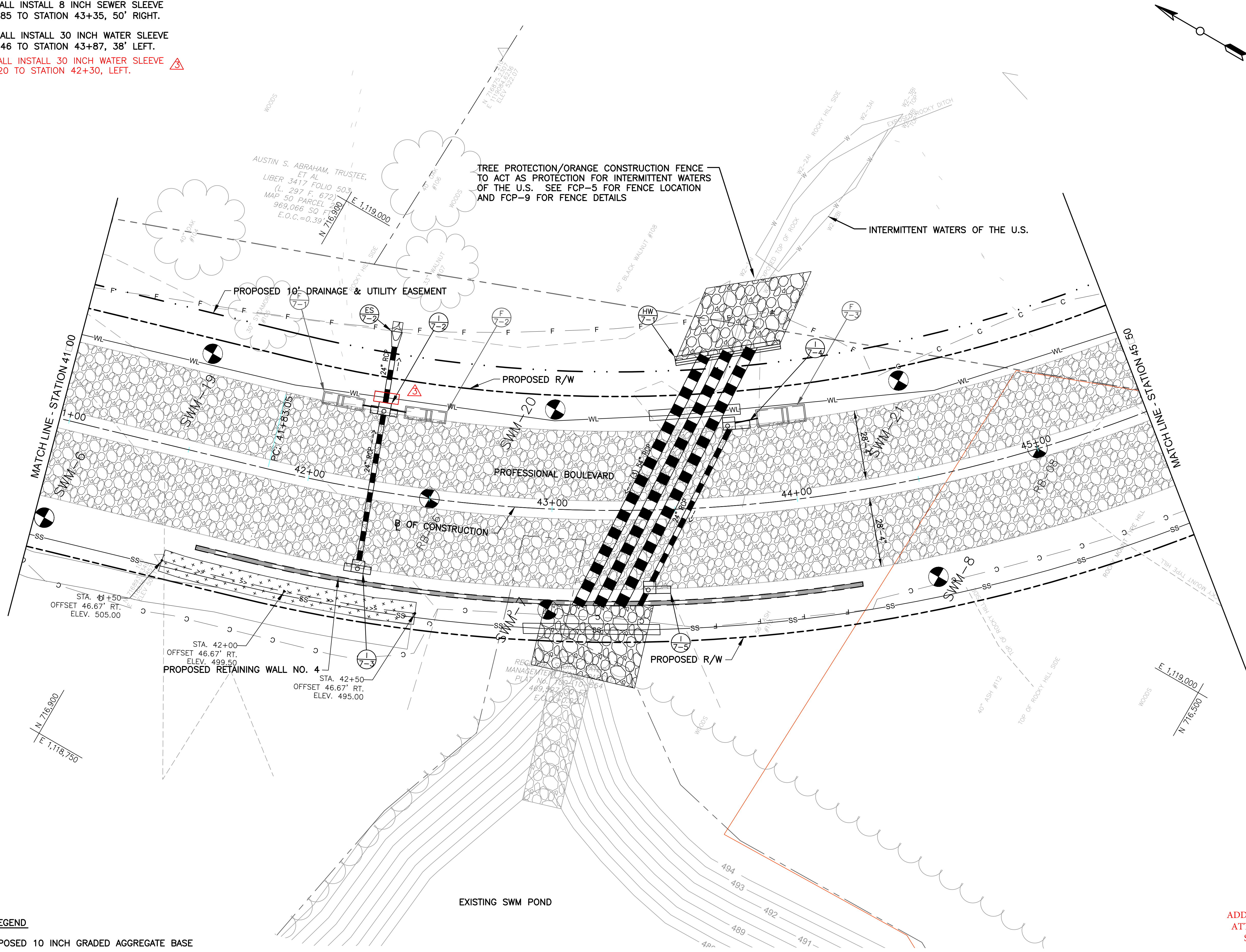
Washington County Administrative Annex Building
 80 W. Baltimore St., Hagerstown, MD 21740
 Phone: 240-313-2460 Fax: 240-313-2401

PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 NO. 2244

**PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 ROADWAY PLAN**

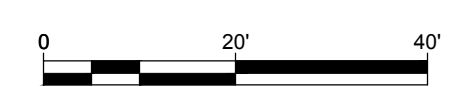
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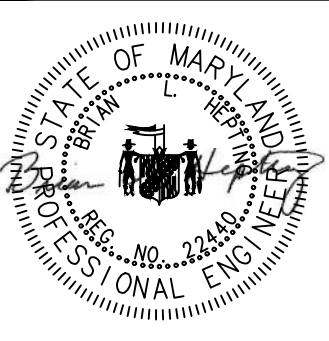
1. CONTRACTOR SHALL INSTALL 8 INCH SEWER SLEEVE FROM STATION 42+85 TO STATION 43+35, 50' RIGHT.
2. CONTRACTOR SHALL INSTALL 30 INCH WATER SLEEVE FROM STATION 43+46 TO STATION 43+87, 38' LEFT.
3. CONTRACTOR SHALL INSTALL 30 INCH WATER SLEEVE FROM STATION 42+20 TO STATION 42+30, LEFT. 



LEGEND
 PROPOSED 10 INCH GRADED AGGREGATE BASE

ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 5 of 37

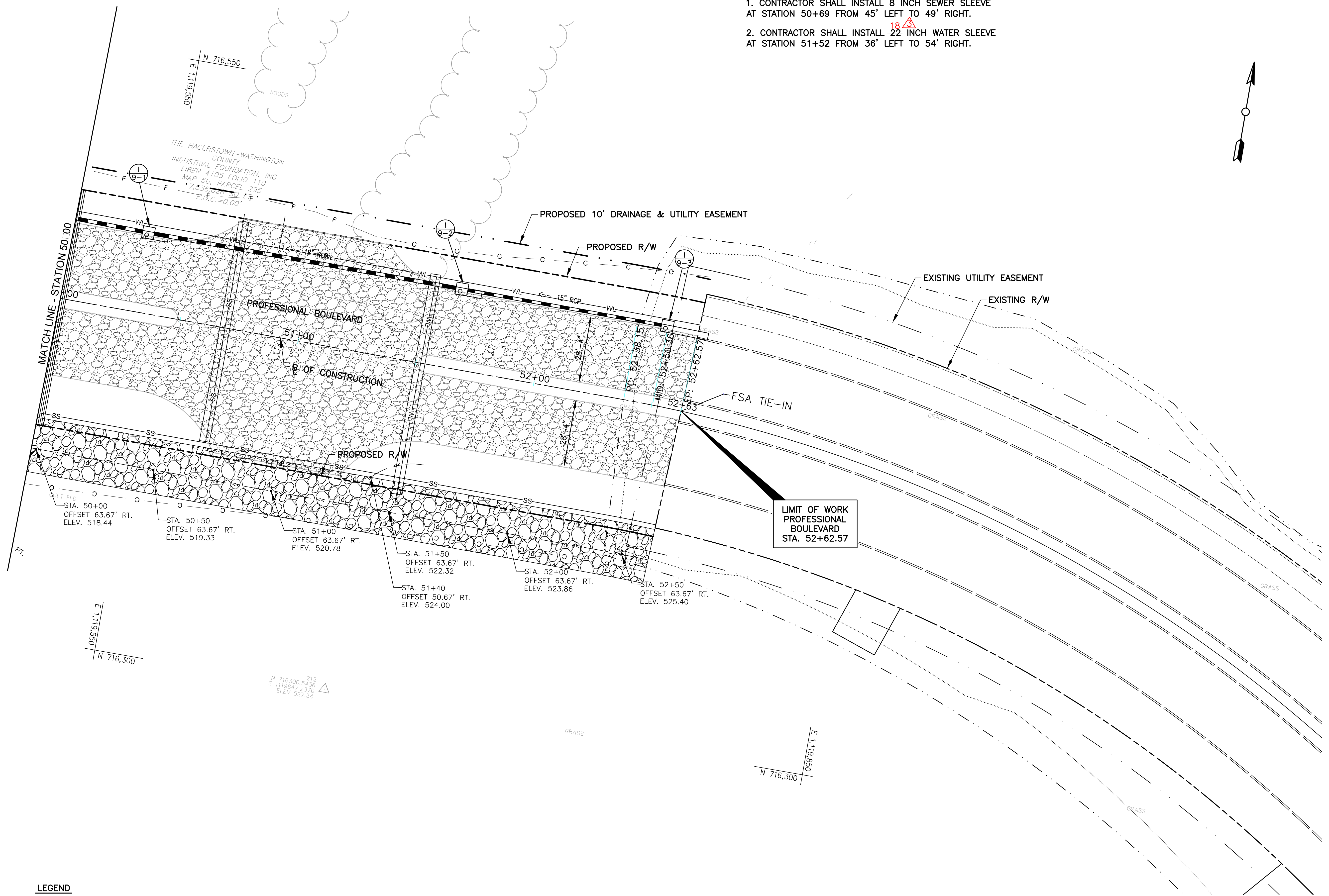


DESIGNED BY: TMB		REVISION DESCRIPTION NO. 3: ADDITIONAL SLEEVE ADDED		DATE
DRAWN BY: TMB				
CHECKED BY:				DATE APRIL 2019
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING  Washington County Administrative Annex, Building 80 W. Baltimore St., Hagerstown, MD 21740 Phone: 240-313-2460 Fax: 240-313-2401				
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK ROADWAY PLAN				
				
SCALE 1"=20'		SHEET NO. 11 OF 145		
		PROJECT NO. 10-244		

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NOTES:

1. CONTRACTOR SHALL INSTALL 8 INCH SEWER SLEEVE AT STATION 50+69 FROM 45' LEFT TO 49' RIGHT.
2. CONTRACTOR SHALL INSTALL ^{18" A} 22 INCH WATER SLEEVE AT STATION 51+52 FROM 36' LEFT TO 54' RIGHT.

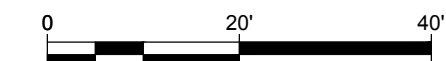


LEGEND

 PROPOSED 10 INCH GRADED AGGREGATE BASE

LIMIT OF WORK
PROFESSIONAL
BOULEVARD
STA. 52+62.57

ADDENDUM NO. 3
ATTACHMENT C
Sheet 7 of 37



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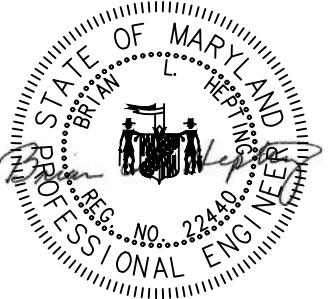
NO.	REVISION DESCRIPTION	BY	DATE
3	REVISED SLEEVE SIZE	TMB	
DESIGNED BY:	TMB		
DRAWN BY:	TMB		
CHECKED BY:			
DATE:	APRIL 2019		
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING			
Washington County Administrative Annex, Building 80 W. Baltimore St., Hagerstown, MD 21740 Phone: 240-313-2460 Fax: 240-313-2401			
			
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK			
ROADWAY PLAN			
			
SCALE 1"=20'			
SHEET NO. 13 OF 145			
PROJECT NO. 10-244			

TABLE 1 - STD. TYPE C ENDWALL (MD-354.01) SCHEDULE

STRUCTURE NO.	STATION (PROF. BLVD.)	OFFSET (FT)	INV. ELEV.	PIPE SIZE	A	B	C	E	F	H	L
EW/4-1	STA. 28+70.06	33.97 LT.	491.75 Δ 490.00	24"	9"	14"	6"	2'-5"	9"	2'-9"	11'-6"
HW/7-1	STA. 43+81.46	56.78 LT.	789.23	54"	12"	20"	12"	3'-8"	12"	5'-6"	43'-2"

TABLE 2 - STD. TYPE C ENDWALL (MD-355.02) SCHEDULE

STRUCTURE NO.	STATION	OFFSET (FT)	INV. ELEV.	PIPE SIZE	A	B	C	E	F	H	L
EW/6-1	STA. 36+57.88	60.31 RT.	488.27	SE 12"	12"	16"	10"	3'-2"	14"	3'-10"	35'-4 1/2"
HW/6-1	STA. 36+67.30	102.8 LT.	489.73	SE 12"x49"	12"	16"	10"	3'-2"	14"	3'-10"	23'-11"
EW/8-1	STA. 46+42.39	51.65 LT.	512.36	SE 12"	12"	20"	12"	3'-8"	15"	4'-10"	52'-0"
HW/8-1	STA. 46+81.81	40.66 RT.	512.87	SE 12"x68"	12"	20"	12"	3'-8"	15"	4'-10"	43'-11"

TABLE 3 - STD. CONCRETE END SECTION (MD-368.01) SCHEDULE

STRUCTURE NO.	STATION (PROF. BLVD.)	OFFSET (FT)	PIPE SIZE	INV. ELEV.	SLOPE	A	B	C	D	E	W	X
ES/7-2	STA. 42+25.77	41.70 RT.	24"	499.74	3:1	11'	3'-7"	2'-8"	6'-3"	4'-0"	5'-0"	15"
ES/8-1	STA. 47+14.62	59.01 LT.	15"	515.00	3:1	6 1/2"	2'-4"	3'-10"	6'-2"	2'-6"	3'-6"	12"

TABLE 4 - COG INLET (MD-374.51) SCHEDULE

INLET NO.	STATION (PROFESSIONAL BLVD.)	OFFSET (FT)	L (FT)	T (FT)	INV. IN	INV. OUT	SLAB ELEV.	PIPE DIA. (IN)
1/3-1	STA. 22+45.74	25.00 LT.	11	10	500.60	500.50	507.03	18/18
1/3-4	STA. 21+51.86	25.00 RT.	11	10	-	503.14	508.94	18
1/3-5	STA. 22+45.74	25.00 RT.	11	10	501.23	501.13	507.03	18/18
1/3-6	STA. 24+00.00	25.00 RT.	11	10	-	498.67	504.47	18
1/4-2*	STA. 29+27.74	26.04 LT.	11	10	-	491.44	497.37	18
1/5-1	STA. 34+50.01	31.00 LT.	11	10	-	491.73	497.50	24
1/6-2	STA. 36+75.75	31.00 LT.	11	10	-	490.00	495.93	24
1/7-4	STA. 43+74.73	31.00 LT.	11	10	-	502.83	509.17	24
1/7-5*	STA. 43+39.20	31.00 RT.	11	10	501.85	495.25	508.19	24/24
1/8-1	STA. 46+67.89	31.00 LT.	11	10	512.80	512.70	520.08	18/18
1/8-2	STA. 49+00.00	31.00 LT.	11	10	515.00	514.9	521.51	18/18
1/9-1	STA. 50+30.50	31.00 LT.	11	10	516.78	516.68	522.58	18/18
1/9-2	STA. 51+63.50	31.00 LT.	11	10	520.58	520.33	526.38	15/18
1/9-3	STA. 52+50.61	31.00 LT.	21	20	-	523.55	529.07	15

TABLE 5 - COS INLET (MD-374.61) SCHEDULE

INLET NO.	STATION (PROFESSIONAL BLVD.)	OFFSET (FT)	L (FT)	T (FT)	INV. IN Δ	INV. OUT Δ	SLAB ELEV.	PIPE DIA. (IN)
1/5-2	STA. 36+00.00	31.00 LT.	11	10	-490.20	491.73 490.10	495.28	24
1/7-2	STA. 42+25.84	31.00 LT.	11	10	499.96	499.86	506.77	24/24
1/7-3*	STA. 42+25.84	31.00 RT.	11	10	-	500.43	506.77	24

TABLE 6 - STD. TYPE K INLET (MD-378.05) SCHEDULE

INLET NO.	STATION (PROFESSIONAL BLVD.)	OFFSET (FT)	OPENING	GRATE ELEV.	INV. IN	INV. OUT	PIPE DIA. (IN)
1/4-3	STA. 28+89.01	35.67 RT.	SINGLE	495.88	490.19	490.09	18/24
1/6-1	STA. 36+50.04	43.33 RT.	SINGLE	493.57	488.60	488.50	24/24
1/8-3	STA. 47+14.83	57.23 RT.	SINGLE	519.25	-	515.10	15

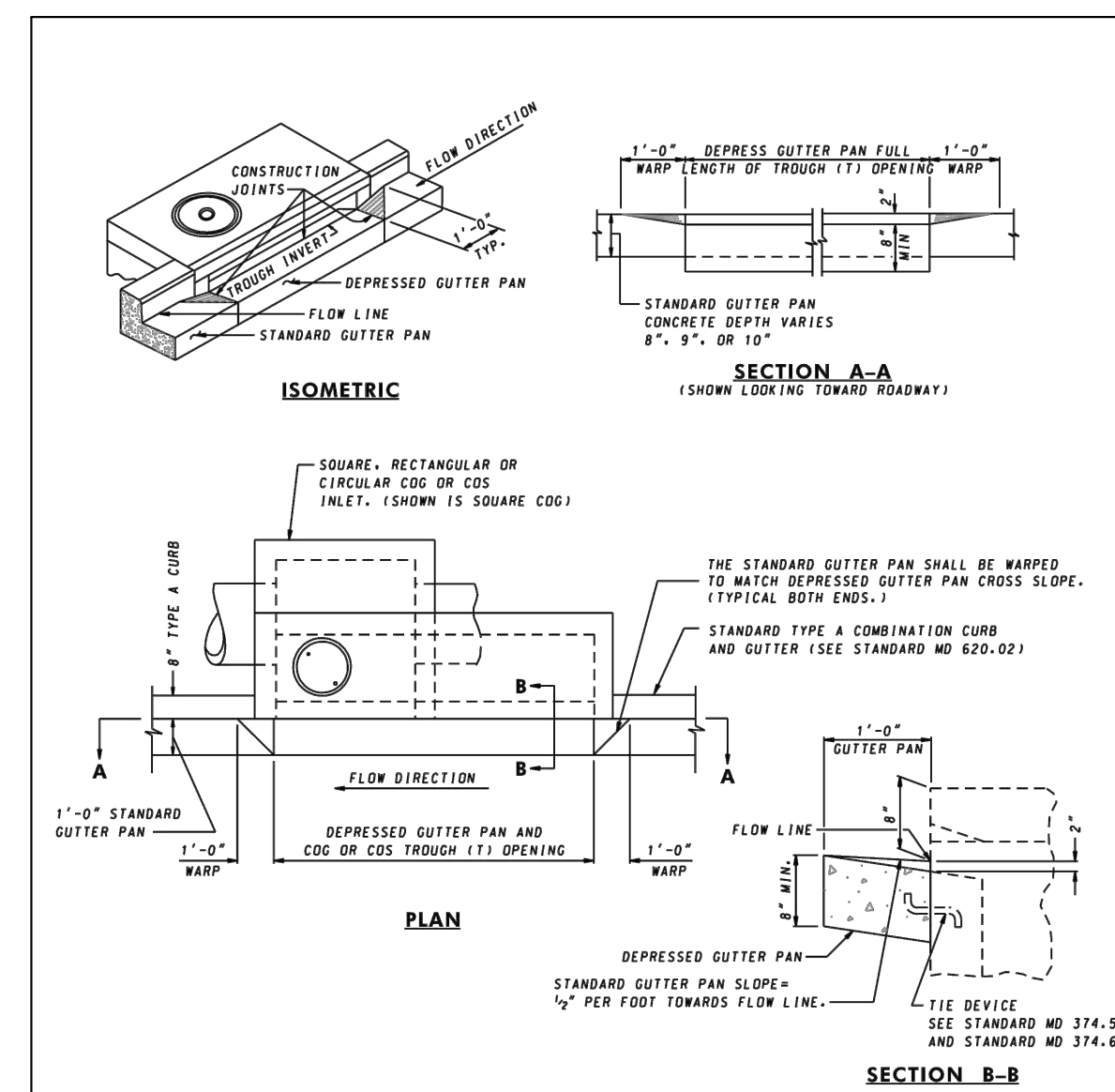
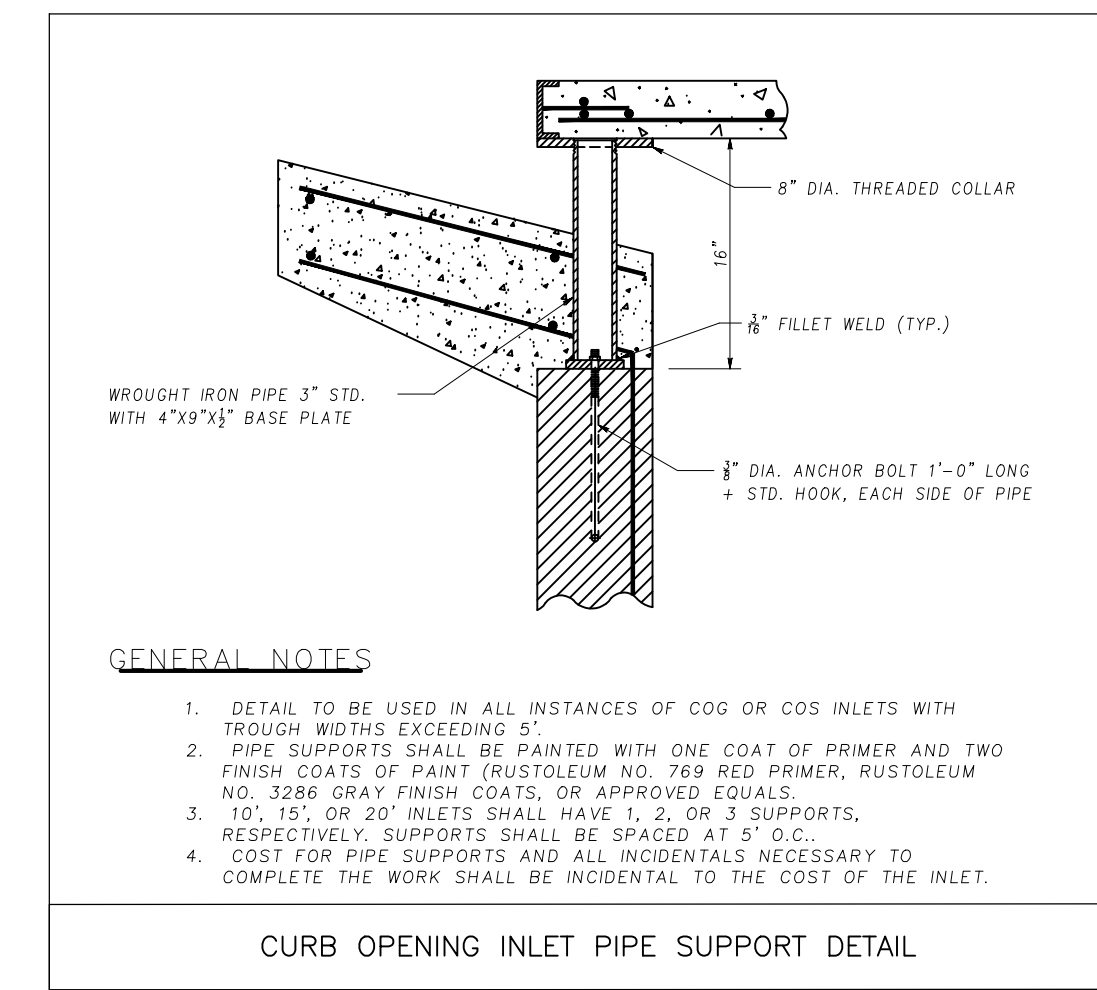
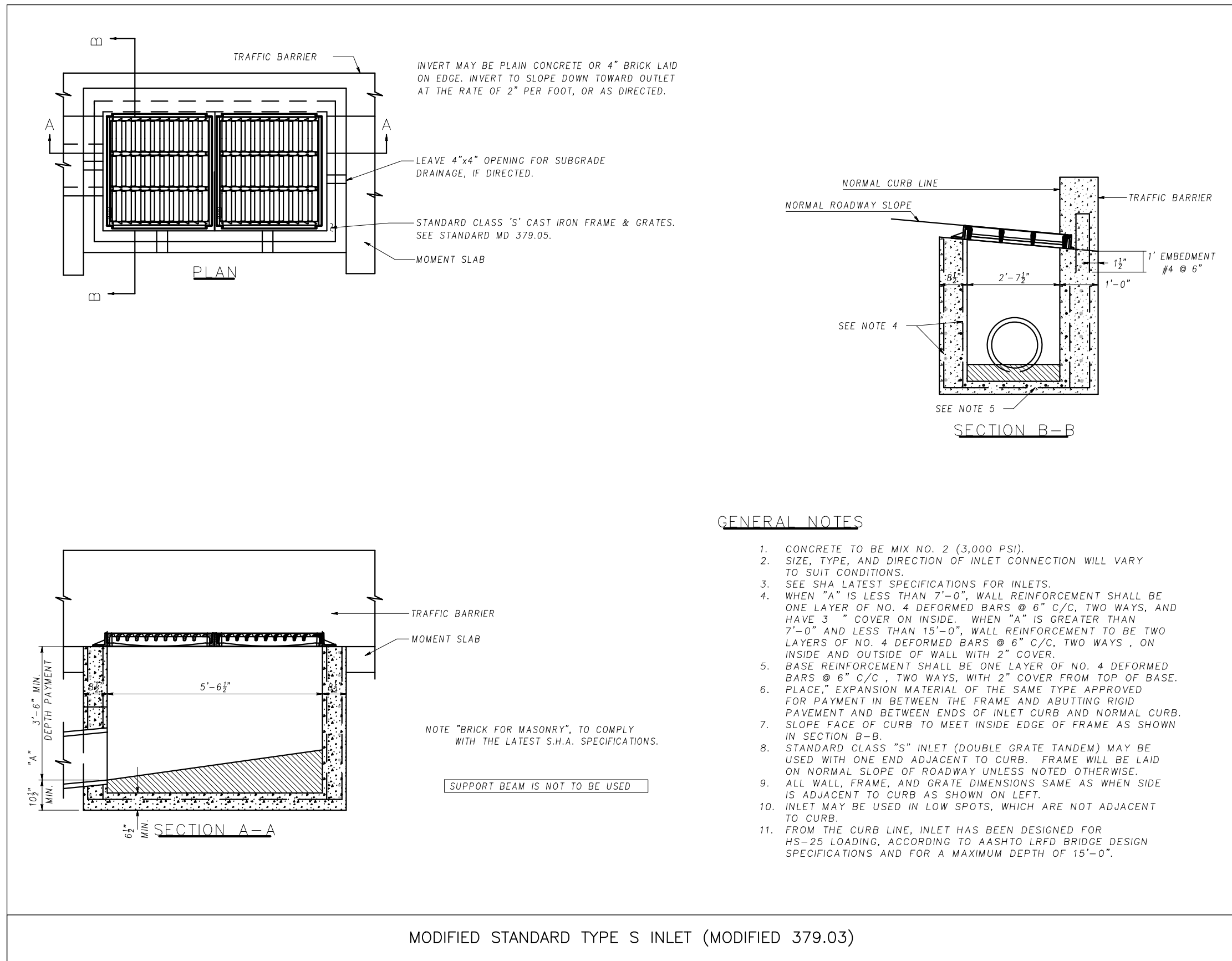
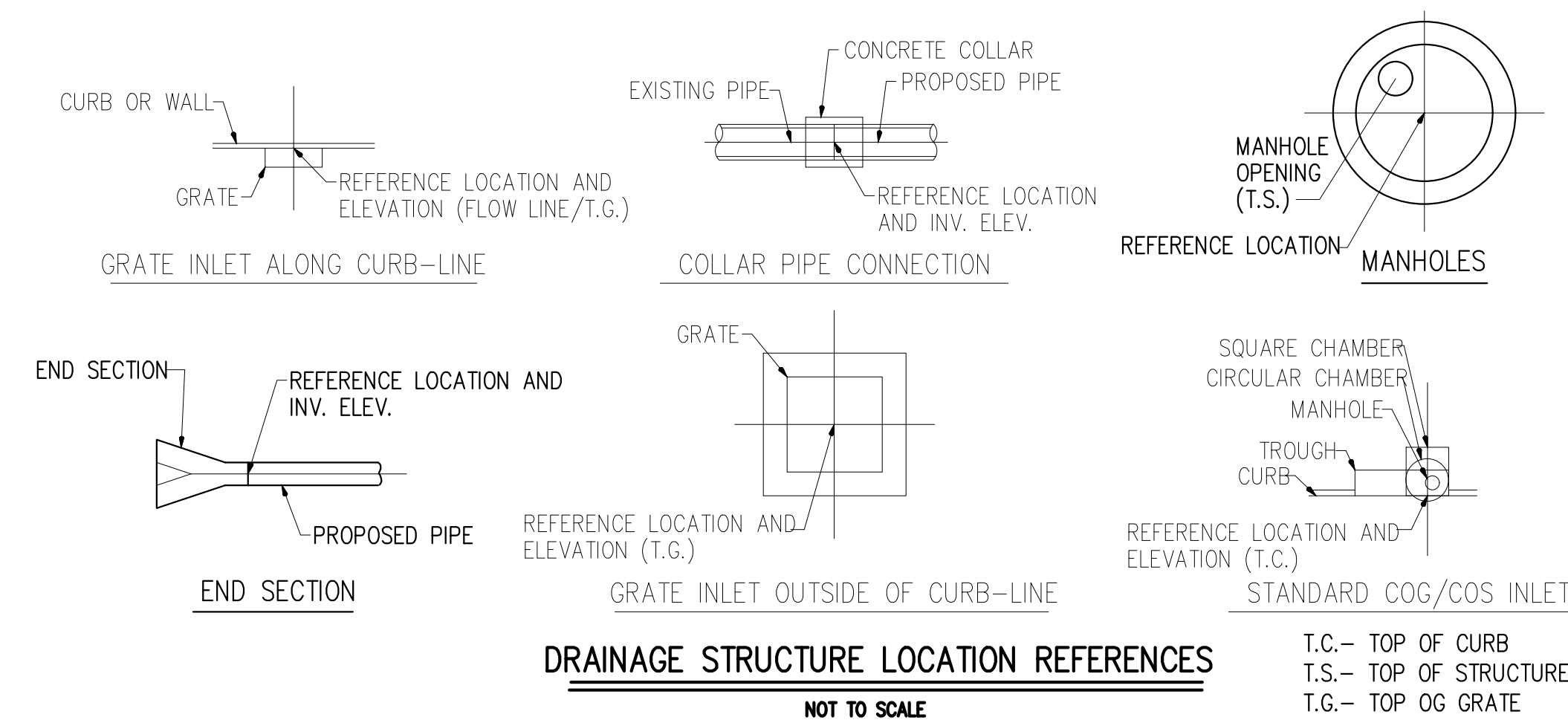
TABLE 7 - MODIFIED TYPE S INLET (MD 379.03) SCHEDULE

INLET NO.	STATION (PROFESSIONAL BLVD.)	OFFSET (FT)	OPENING	GRATE ELEV.	INV. IN	INV. OUT	PIPE DIA. (IN)
1/3-2	STA. 24+00.00	25.00 LT.	DOUBLE	503.80	498.10/498.23	498.00	18/18/18
1/3-3	STA. 25+25.00	25.00 LT.	DOUBLE	501.57	495.90	495.80	18/18
1/3-7	STA. 25+25.00	25.00 RT.	DOUBLE	501.57	-	496.44	18
1/4-1	STA. 28+88.80	25.00 LT.	DOUBLE	496.60	490.46 491.05 Δ	490.36 490.95 Δ	18/18
1/4-4	STA. 28+88.80	25.00 RT.	DOUBLE	496.60	491.05 490.46 Δ	490.95 490.36 Δ	18/18

TABLE 8 - STD. 4 FT. CIRCULAR MANHOLE (MD-383.21) SCHEDULE

INLET NO.	STATION (PROFESSIONAL BLVD.)	OFFSET (FT)	LID ELEV.	PIPE SIZE IN	INV. IN	PIPE SIZE OUT	INV. OUT
MH/3-1	STA. 25+00.00	29.17 LT.	502.14	24/24	495.60/495.60	24	487.75

*NOTE: THIS INLET (1/4-2, 1/7-3, 1/7-5) SHALL BE MODIFIED BY ROTATING THE BASIN 180° SO THAT THE BACK OF THE BASIN IS ALIGNED WITH THE BACK OF THE TROUGH. THIS ADJUSTMENT SHALL BE INCIDENTAL TO THE STANDARD PAY ITEM.



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

DEPRESSED CONCRETE GUTTER PAN FOR COG AND COS INLETS

STANDARD NO. MD 374.65

DATE: _____

BY: **BCG**

REVISION DESCRIPTION:

NO. Δ REVISED TABLES

DESIGNED BY: _____

DRAWN BY: _____

CHECKED BY: **BGB**

DATE: **APRIL 2019**

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

PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK
STORM DRAIN STRUCTURE
DETAILS

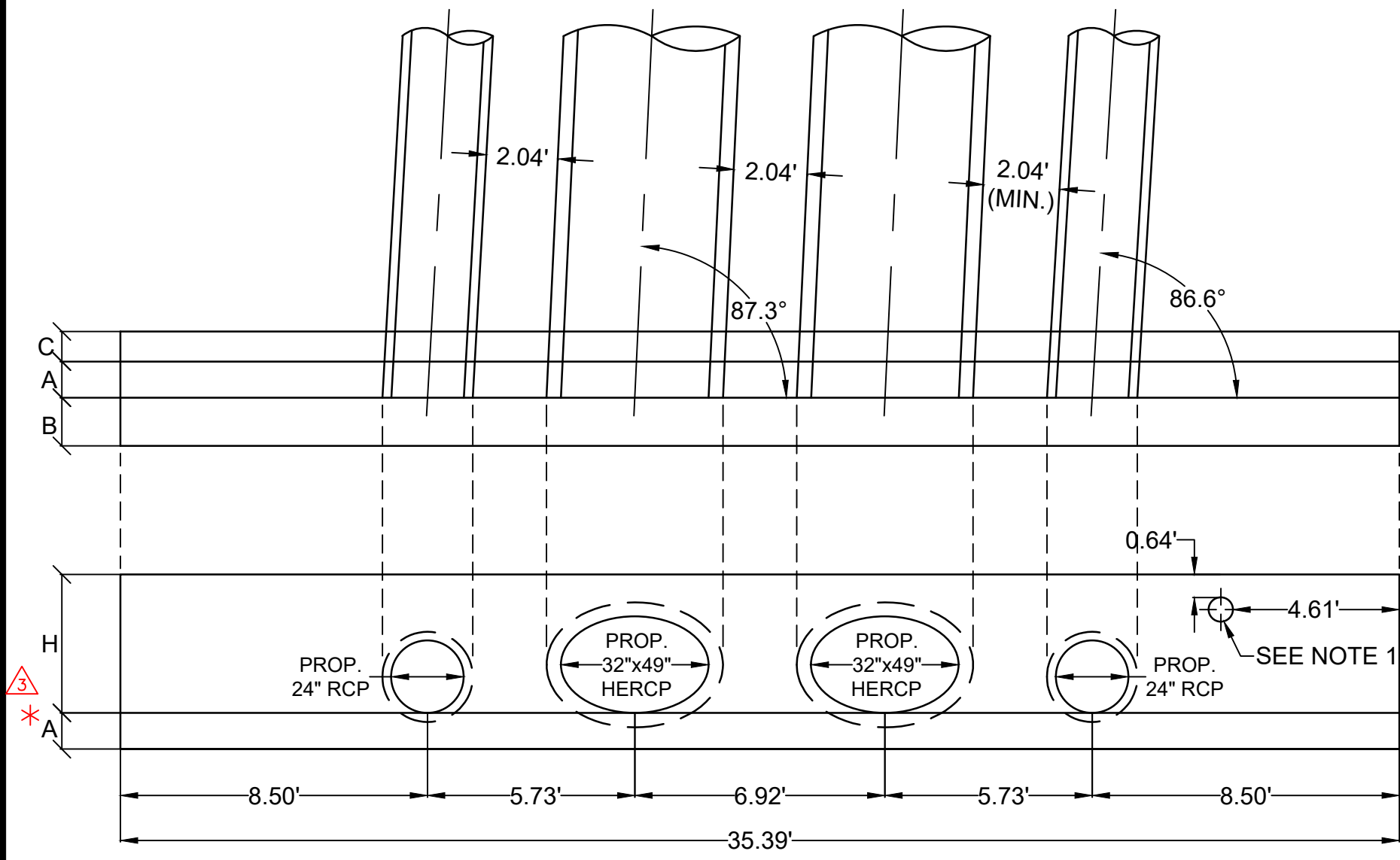
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SHEET NO.: **19 OF 145**

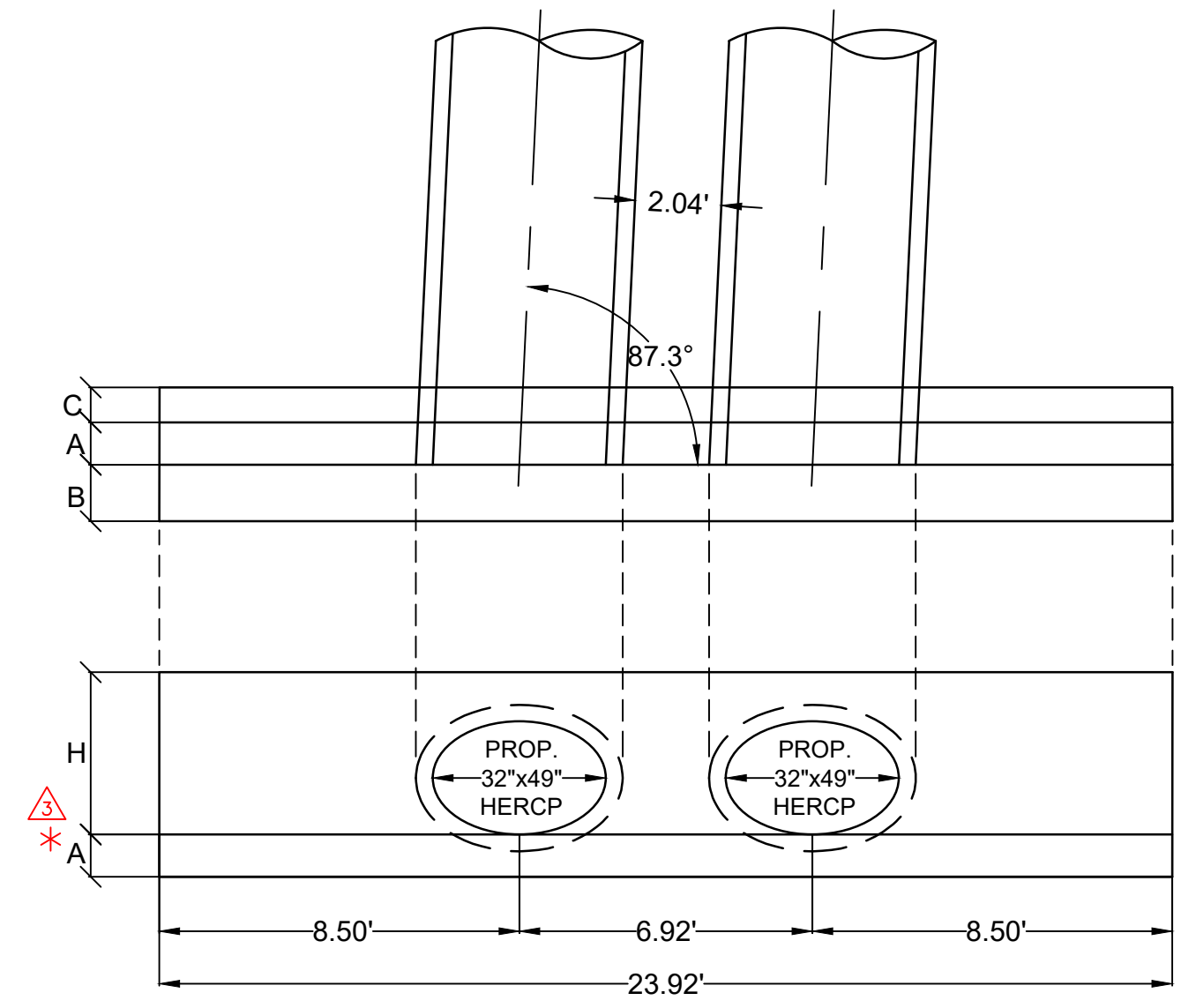
PROJECT NO.: **10-244**

ADDENDUM NO. 3
ATTACHMENT C
Sheet 8 of 37

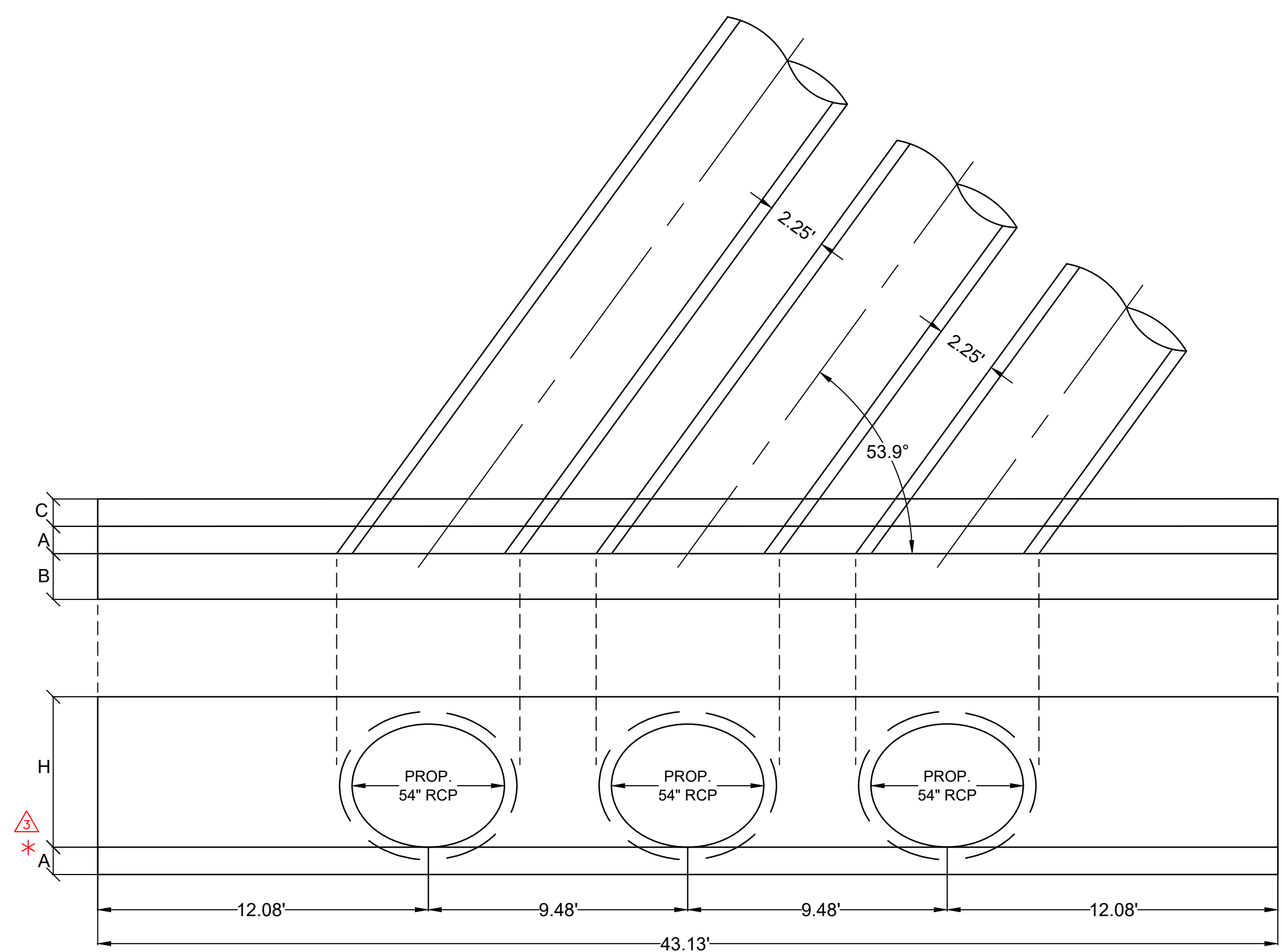
DRAWING: **SD-01**



PROP. EW 6-1
SCALE: 1/4" = 1'

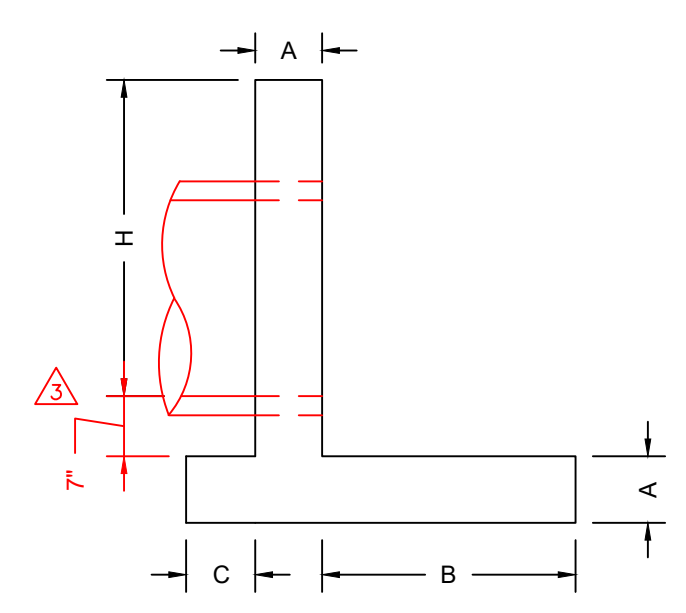


PROP. HW 6-1
SCALE: 1/4" = 1'



PROP. HW 7-1
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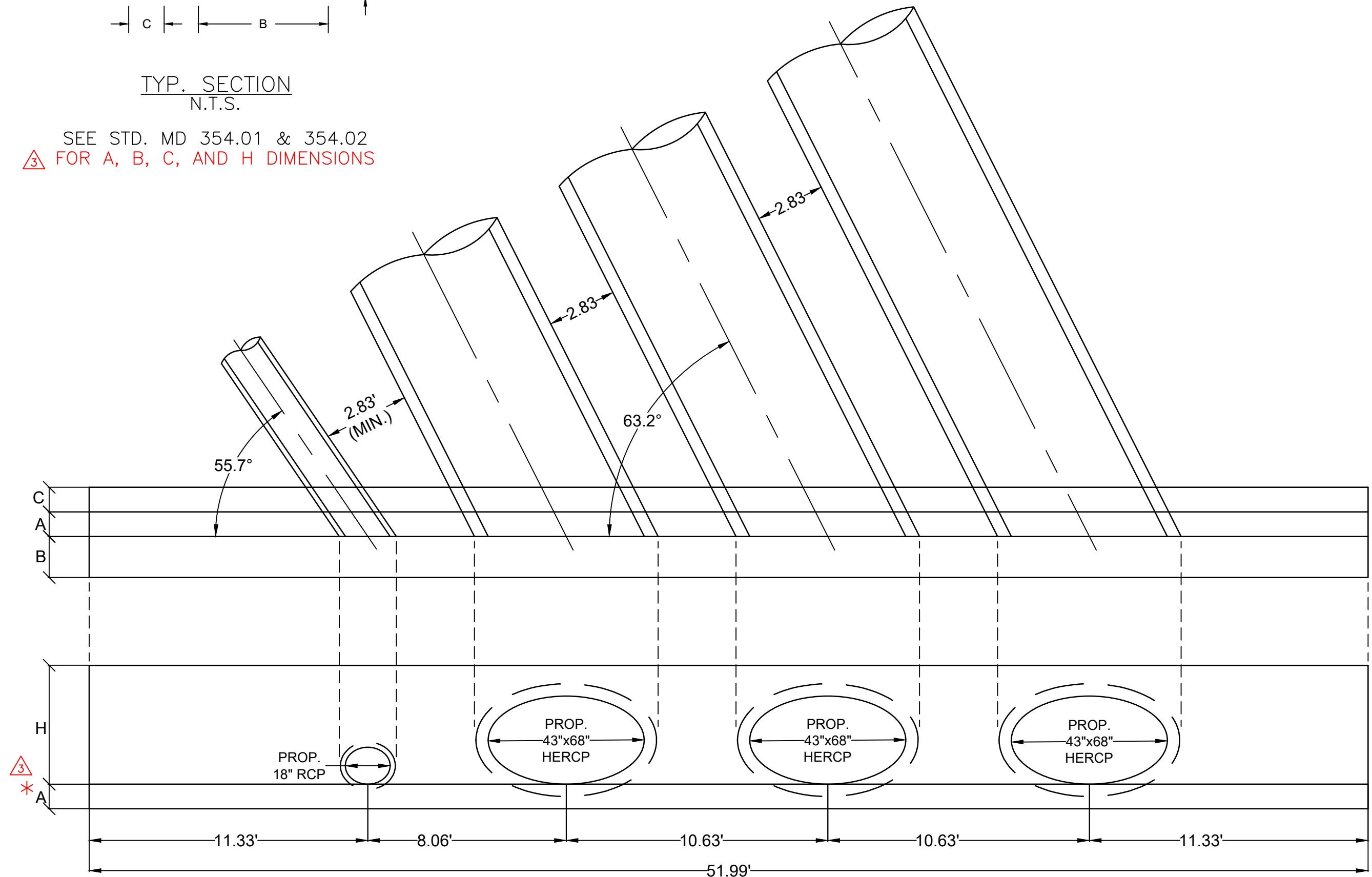
NOTE 1: PROVIDE 8" KNOCK-OUT FOR FUTURE 6" PVC SUB-DRAIN CONNECTION



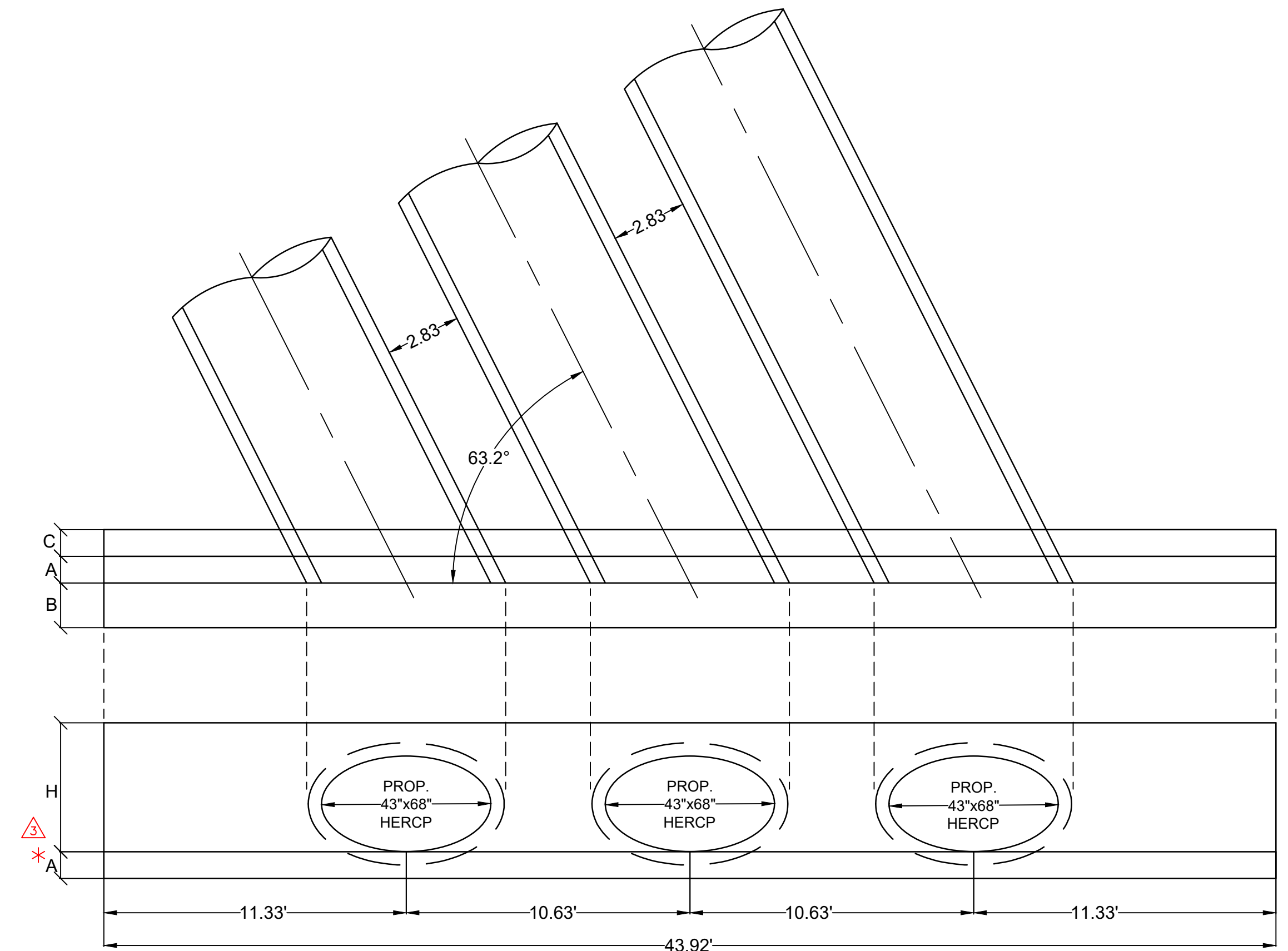
TYP. SECTION
N.T.S.

SEE STD. MD 354.01 & 354.02
FOR A, B, C, AND H DIMENSIONS

* THIS ADDENDUM 3 REVISION INCLUDES INSERTING 7" BETWEEN THE TOP OF THE FOOTING AND PIPE INVERT.



PROP. EW 8-1
SCALE: 1/4" = 1'



PROP. HW 8-1
SCALE: 1/4" = 1'

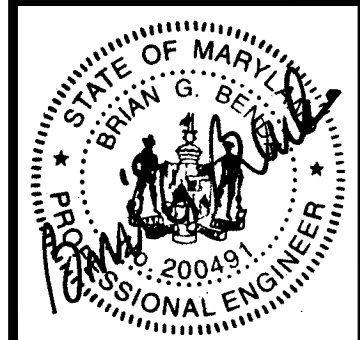
NO.	REVISION DESCRIPTION	BY	DATE
1	INSERTED 7" OFFSET BELOW INVERT	BCG	

DESIGNED BY: IMS
DRAWN BY: IMS
CHECKED BY: BGB
DATE: APRIL 2019

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

PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK
STORM DRAIN STRUCTURE
DETAILS & SCHEDULE



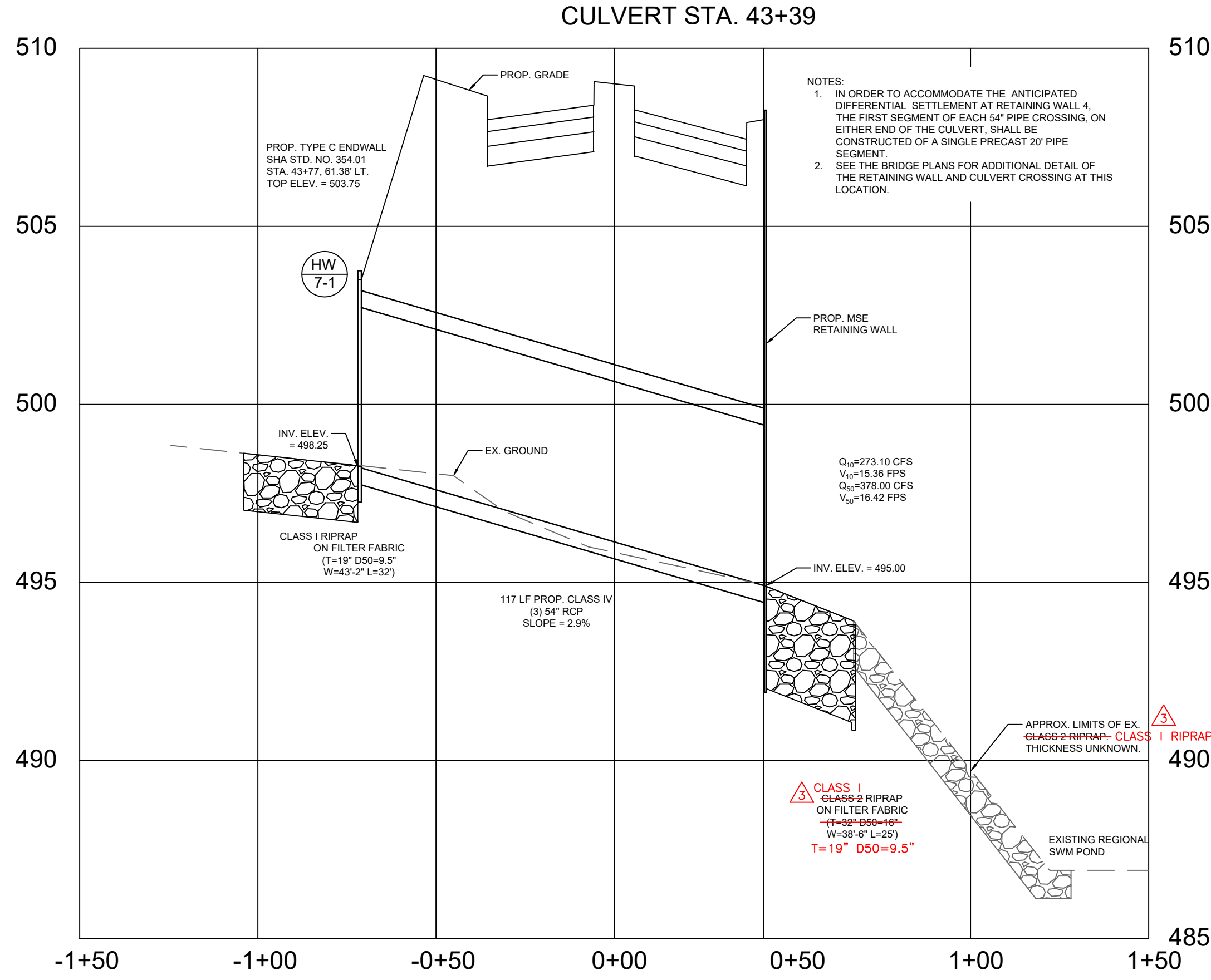
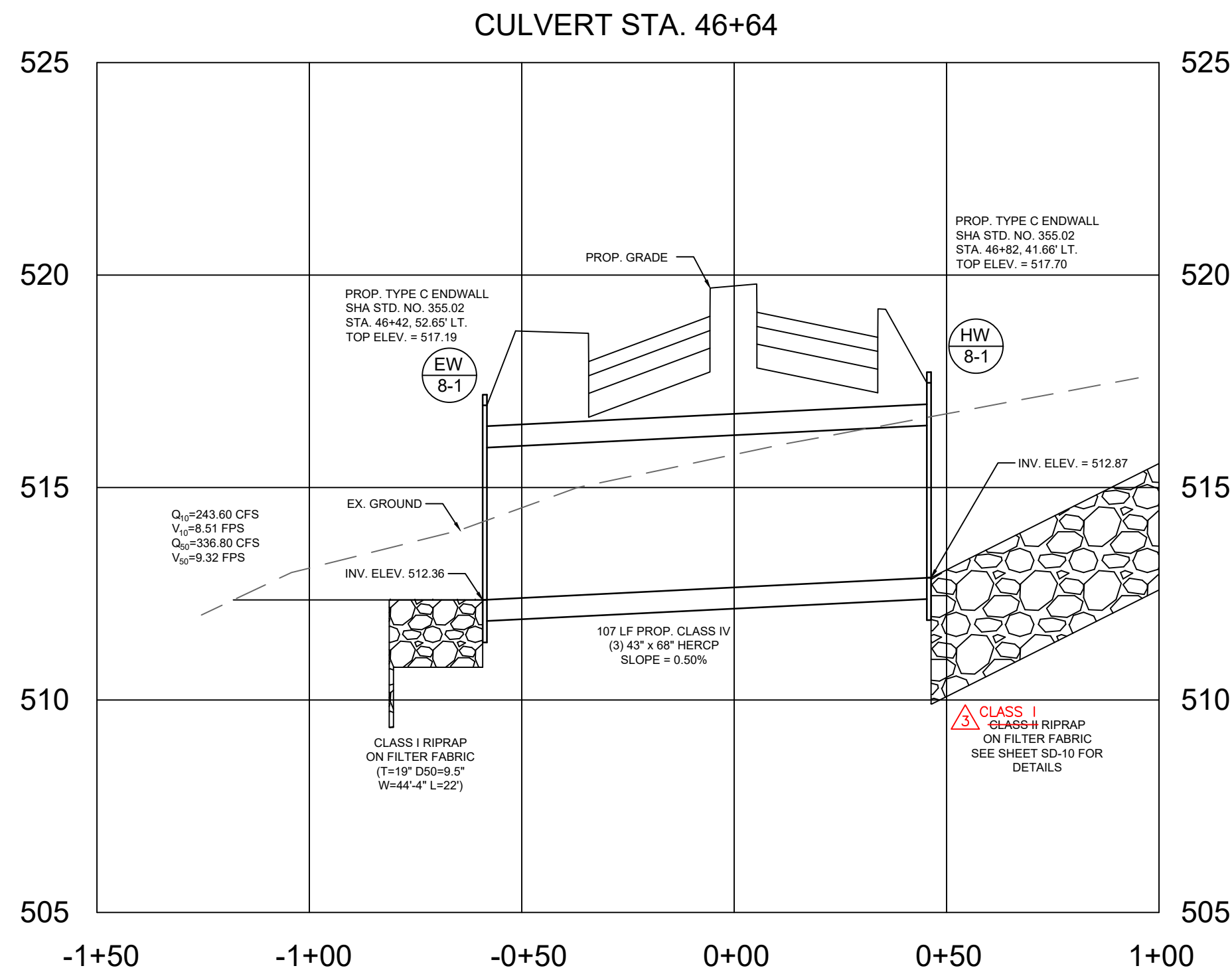
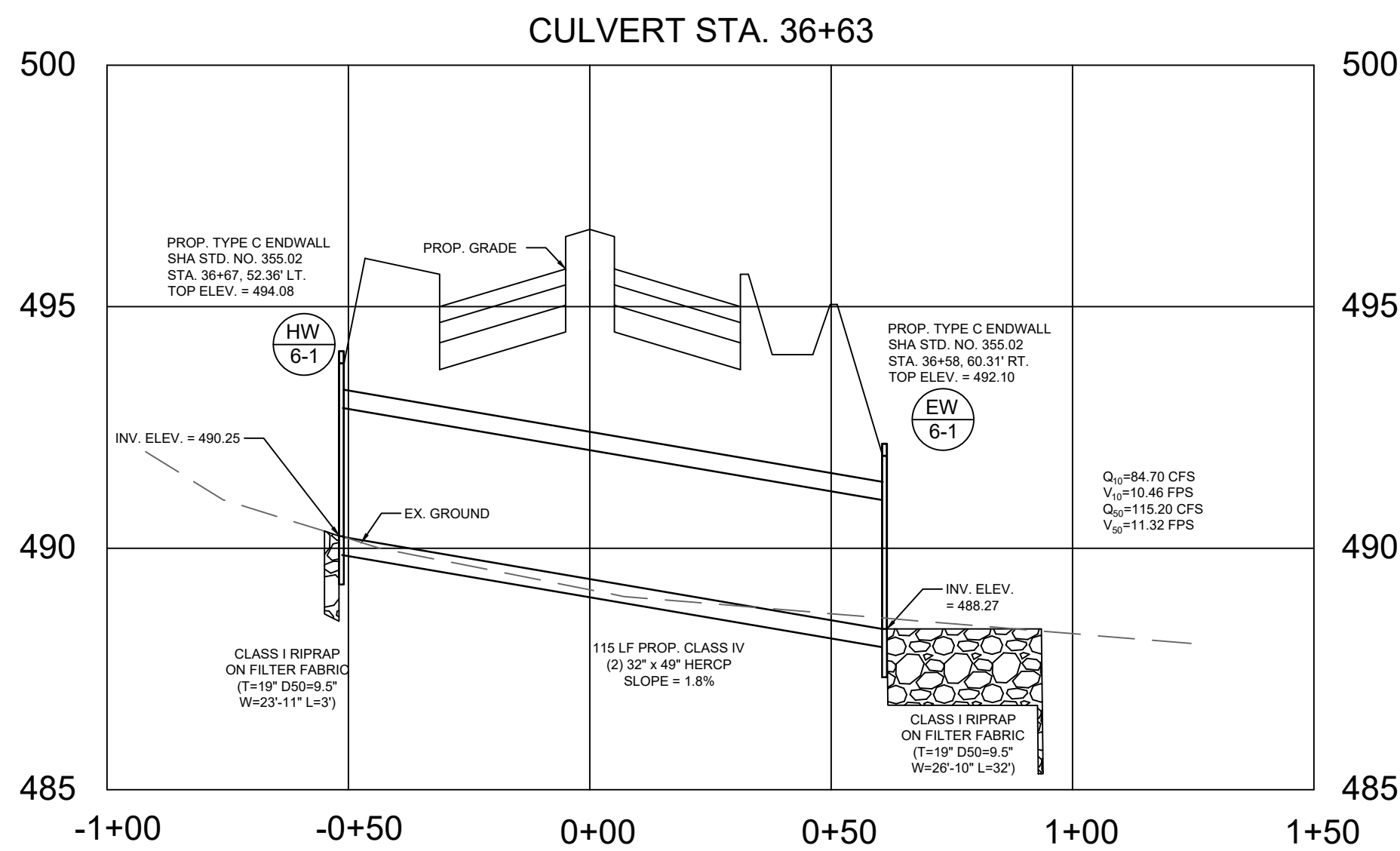
SCALE
AS SHOWN

SHEET NO.
21 OF 145

PROJECT NO.
10-244

ADDENDUM NO. 3
ATTACHMENT C
Sheet 9 of 37

DRAWING
SD-03



- NOTES:
- SUBGRADE SHALL BE UNDERCUT AS NECESSARY TO PROVIDE A FIRM AND LEVEL BEARING SURFACE.
 - FOR CULVERT PLACEMENT ON SOIL, UNDERCUT AT LEAST 2 FEET BELOW THE PROPOSED FOOTING BEARING ELEVATION. UNDERCUT SHALL EXTEND A MINIMUM OF 9 INCHES LATERALLY FROM THE FOOTING PERIMETER FOR EVERY 12 INCHES OF COMPACTED FILL BELOW THE FOOTING. BACKFILL UNDERCUT AREA WITH BEDDING MATERIALS OR NO. 2 STONE CHOKED OFF WITH CR-6 TO MINIMIZE FLOW THROUGH STONE.
 - THE CULVERTS SHALL BE PLACED AND BACKFILLED THE SAME DAY THE TRENCH IS EXCAVATED WHEREVER FEASIBLE. IF THE TRENCH CANNOT BE BACKFILLED WITHIN THE SAME WORKING DAY, THE EXCAVATION SHALL BE PROTECTED FROM FLOW. ANY SOILS THAT BECOME EXPOSED TO WATER MUST BE REMOVED FROM THE EXCAVATION BOTTOM PRIOR TO CULVERT PLACEMENT.
 - FOR CULVERT PLACEMENT IN ROCK, THE ROCK SHALL BE EXCAVATED TO A DEPTH OF AT LEAST 1 FOOT BELOW THE BOTTOM OF FOOTING.

OPENING DIMENSIONS	DIMENSIONS		QUANTITIES	
	D	AREA	CONC.	STEEL
12	0.78	9"	6"	41.1
15	1.23	9"	6"	47
18	1.77	9"	6"	54
21	2.40	9"	6"	70
24	3.14	9"	6"	80
27	3.98	9"	6"	88
30	4.81	9"	6"	98
33	5.94	9"	6"	105
36	7.07	12"	16"	132
42	9.62	12"	16"	168
48	12.57	12"	16"	204
54	15.90	12"	16"	240
60	19.64	12"	16"	288
72	28.27	12"	20"	372

GENERAL NOTES:
 SPECIFICATIONS: LATEST S.W.A.
 CONCRETE SHALL BE MIX NO. 2 REINFORCING: DEFORMED STEEL BARS-NO. 4 CHAMBER: ALL EXPOSED EDGES 1"x1" OR AS DIRECTED.

Standard No. MD 354.01

OPENING DIMENSIONS	DIMENSIONS		QUANTITIES	
	D	AREA	CONC.	STEEL
14223	1.8	9"	8"	56
19310	3.3	9"	8"	63
22434	4.1	9"	8"	74
24638	5.1	9"	8"	116
27442	6.3	9"	8"	124
29645	7.4	9"	8"	141
32449	8.8	12"	16"	202
34653	10.2	12"	16"	210
38660	12.9	12"	16"	266
43668	16.6	12"	20"	307

GENERAL NOTES:
 SPECIFICATIONS: LATEST S.W.A.
 CONCRETE: SEE S.W.A. SPECIFICATIONS
 REINFORCEMENT: DEFORMED STEEL BARS NO. 4 CHAMBER: ALL EXPOSED EDGES 1"x1" OR AS DIRECTED.

Standard No. MD 355.02

DATE: _____

BY: BCG

REVISION DESCRIPTION: UPDATED RIPRAP CLASS

DESIGNED BY: _____

DRAWN BY: _____

CHECKED BY: BCB

DATE: APRIL 2019

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

PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 CROSS CULVERT DETAILS
 & PROFILES

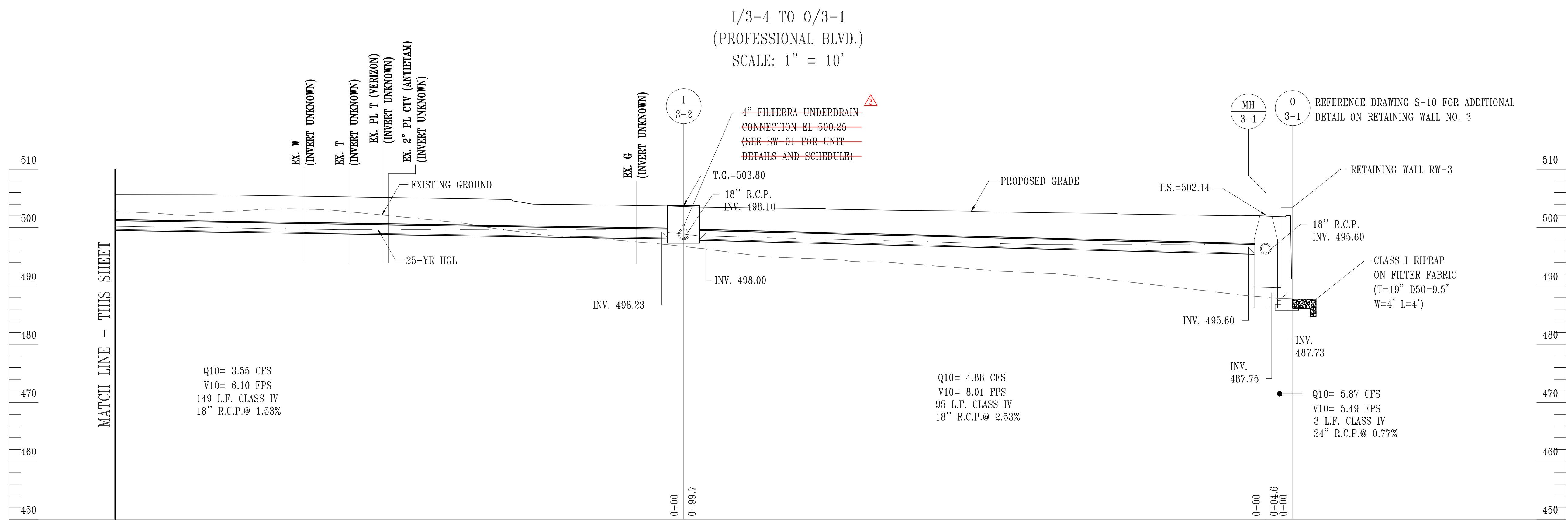
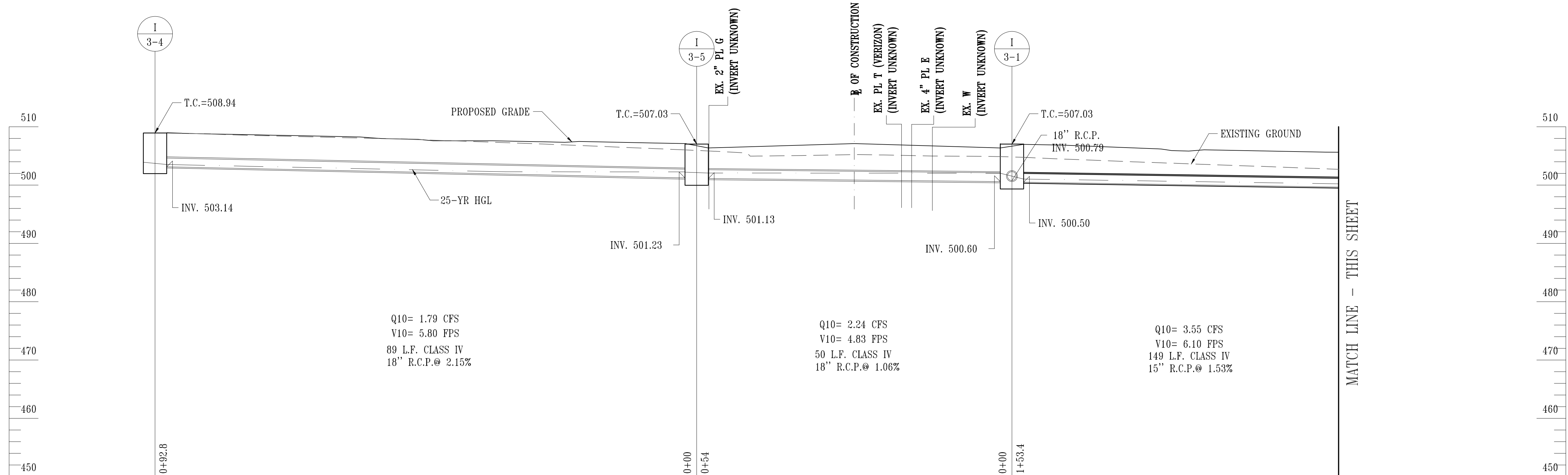
SCALE: H: 1"=30' V: 1"=3'

SHEET NO. 22 OF 145

PROJECT NO. 10-244

ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 10 of 37

DRAWING SD-04



NO.	REVISION DESCRIPTION	BY	DATE
1	DELETED LABEL	BCG	

DESIGNED BY: JCK
 DRAWN BY: JCK
 CHECKED BY: BGB
 DATE: APRIL 2019

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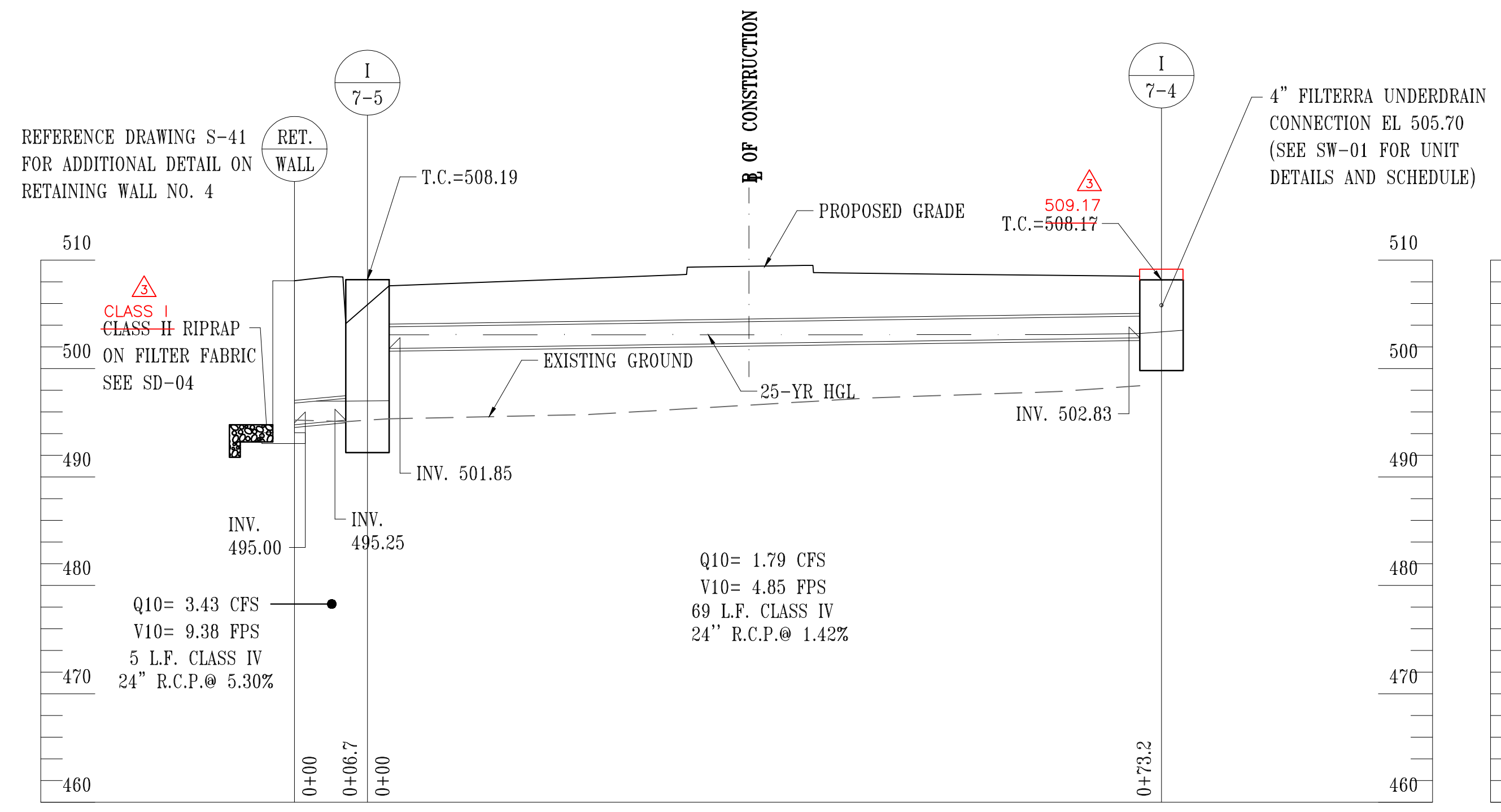
**PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 STORM DRAIN PROFILES**



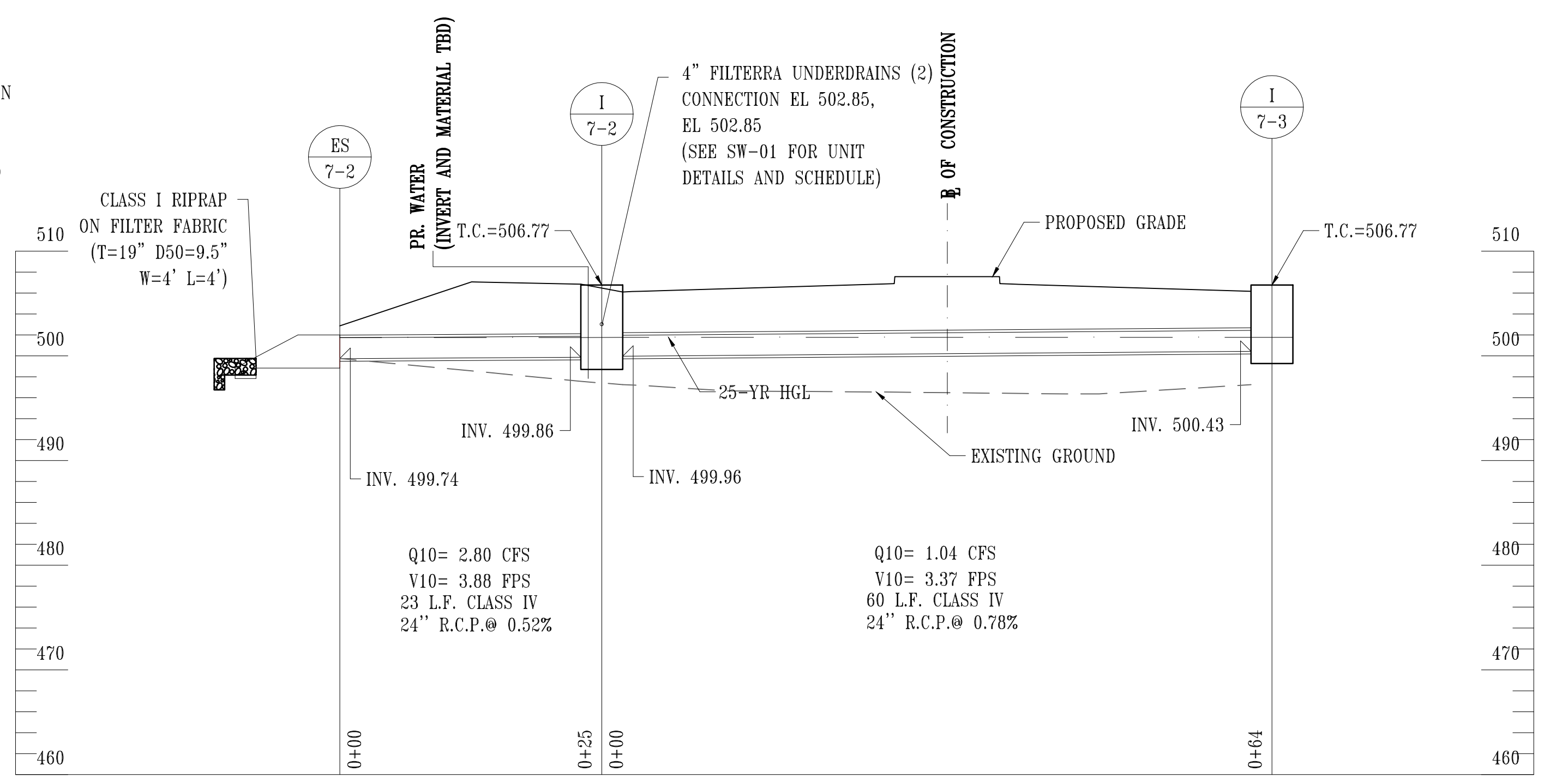
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SHEET NO.	23 OF 145
PROJECT NO.	10-244

ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 11 of 37

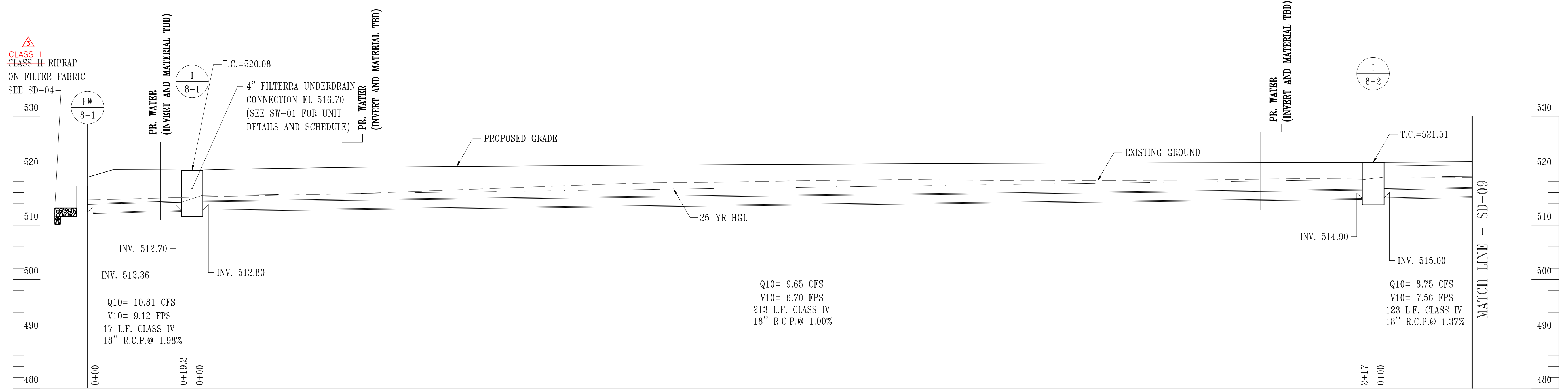
DRAWING	SD-05
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RETAINING WALL TO I/7-4
(PROFESSIONAL BLVD.)
SCALE: 1" = 10'



ES/7-2 TO I/7-3
(PROFESSIONAL BLVD.)
SCALE: 1" = 10'



EW/8-1 TO I/9-3
(PROFESSIONAL BLVD.)
SCALE: 1" = 10'

ADDENDUM NO. 3
ATTACHMENT C
Sheet 12 of 37

DRAWING	PROJECT NO.
SD-08	10-244

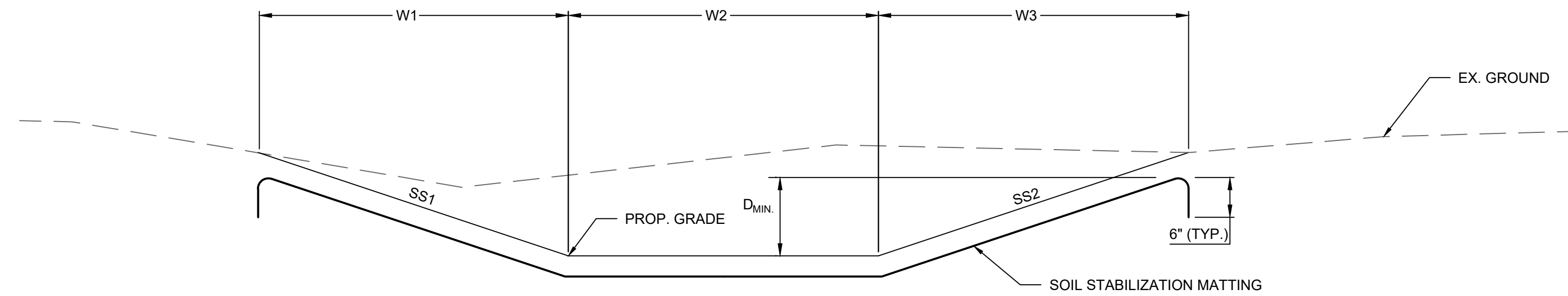
DESIGNED BY:	JCK
DRAWN BY:	JCK
CHECKED BY:	BGB
DATE:	APRIL 2019
NO.	1
REVISION DESCRIPTION	UPDATED LABELS
BY	BCG
DATE	

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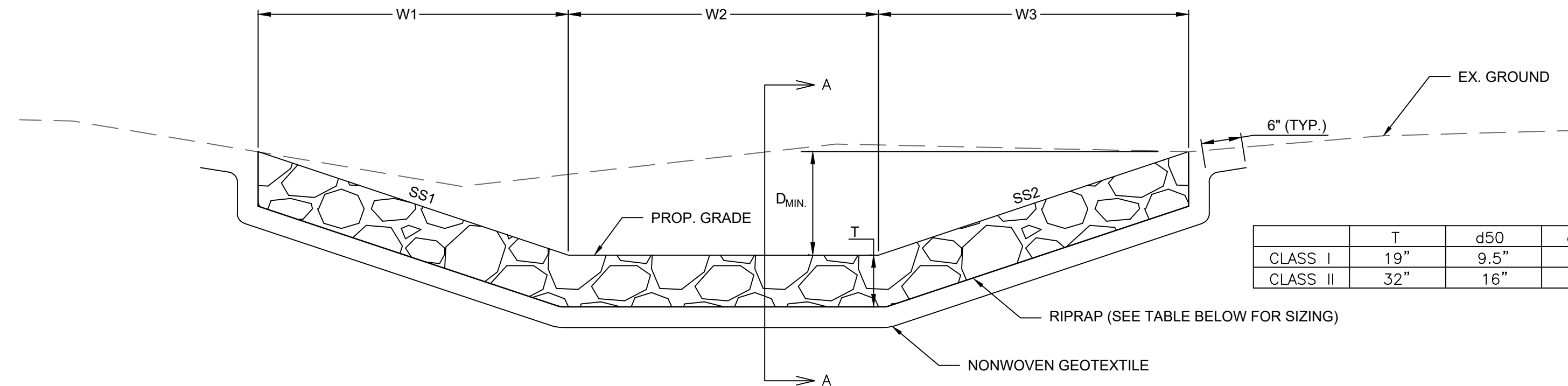
PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK
STORM DRAIN PROFILES



SCALE	1"=10'
SHEET NO.	26 OF 145
PROJECT NO.	10-244

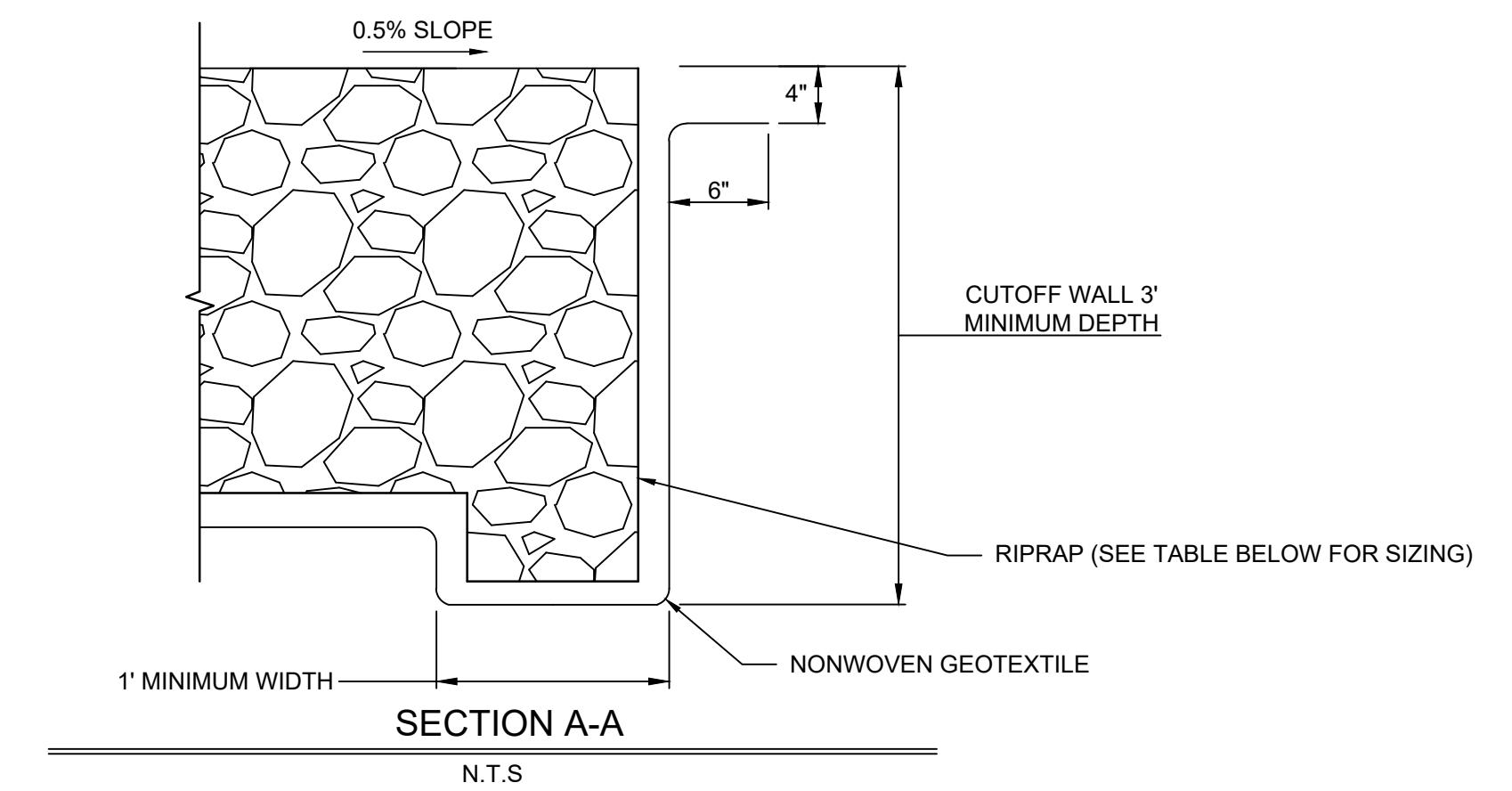


SOIL STABILIZATION MATTING DETAIL
N.T.S



RIPRAP LINING DETAIL
N.T.S

	T	d50	dMAX
CLASS I	19"	9.5"	12"
CLASS II	32"	16"	20"



SECTION A-A
N.T.S

DITCH AND DITCH LINING SCHEDULE																
STATION AND OFFSET (PROFESSIONAL BLVD.)	LENGTH (FT)	SS1 (H:V)	SS2 (H:V)	W1 (FT)	W2 (FT)	W3 (FT)	Q10 MAX. (CFS)	V10 MAX. (FPS)	D10 MAX. (FT)	D MIN. (FT)	SSM TYPE A QTY. (SY)	SSM TYPE B QTY. (SY)	CLASS I RIPRAP QTY. (SY)	CLASS II RIPRAP QTY. (SY)	REMARKS	
STA. 24+83 TO STA. 26+40 LT.	158.51	3	3	3	3	3	5.87	3.87	0.37	1	-	164	-	-		
STA. 26+40 TO STA. 26+56 LT.	14.51	3	3	3	3	3	5.87	1.63	0.70	1	-	-	-	15		
STA. 28+70 TO STA. 28+00 RT.	70.71	3	3	3	3	3	6.79	7.97	0.23	1	-	-	71	-		
STA. 28+00 TO STA. 27+65 RT.	37.21	3	3	3	3	3	6.79	1.68	0.77	1	-	-	-	35		
STA. 28+91 TO STA. 32+20 RT.	326.30	3	3	5	8	3	1.21	0.97	0.15	1	594	-	-	-		
STA. 32+20 TO STA. 36+47 RT.	409.60	3	3	5	8	3	1.74	1.35	0.15	1	747	-	-	-		
STA. 36+73 TO STA. 40+70 LT.	381.70	3	3	5	8	3	1.49	1.21	0.15	1	696	-	-	-		
STA. 40+94 TO STA. 41+50 RT.	56.30	3	3	5	8	3	0.25	0.43	0.07	1	103	-	-	-		
STA. 41+50 TO STA. 42+50 RT.	105.32	3	3	3	3	3	0.27	1.25	0.07	1	109	-	-	-		
STA. 47+17 TO STA. 50+39 RT.	338.30	3	3	5	8	3	1.99	0.74	0.30	1	617	-	-	-		
STA. 51+61 TO STA. 52+63 RT.	100.00	3	3	5	8	3	1.03	1.03	0.12	1	182	-	-	-		
STA. 52+63 TO STA. 46+82 RT.	620.86	3	2	9	8	VARIES	163.13	8.81	2.82	3	-	-	1688	1688		
							163.18	9.30	1.50				1688	1688		

RIPRAP CUTOFF WALL SCHEDULE			
STATION (PROFESSIONAL BLVD.)	OFFSET (FT)	RIPRAP	LENGTH (FT)
STA. 25+00	37.3 LT.	CLASS I	4
STA. 26+56	53.7 LT.	CLASS II	9
STA. 27+65	50.5 RT.	CLASS II	9
STA. 36+56	93.3 RT.	CLASS I	35
STA. 42+26	69.3 LT.	CLASS I	4
STA. 43+14	122 67.6 RT.	CLASS II CLASS I	43 54
STA. 46+28	75.4 LT.	CLASS I	50

NO.	REVISION DESCRIPTION	BY	DATE
1	UPDATED RIPRAP CLASS	BCG	

DESIGNED BY: IMS
DRAWN BY: IMS
CHECKED BY: BCB
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

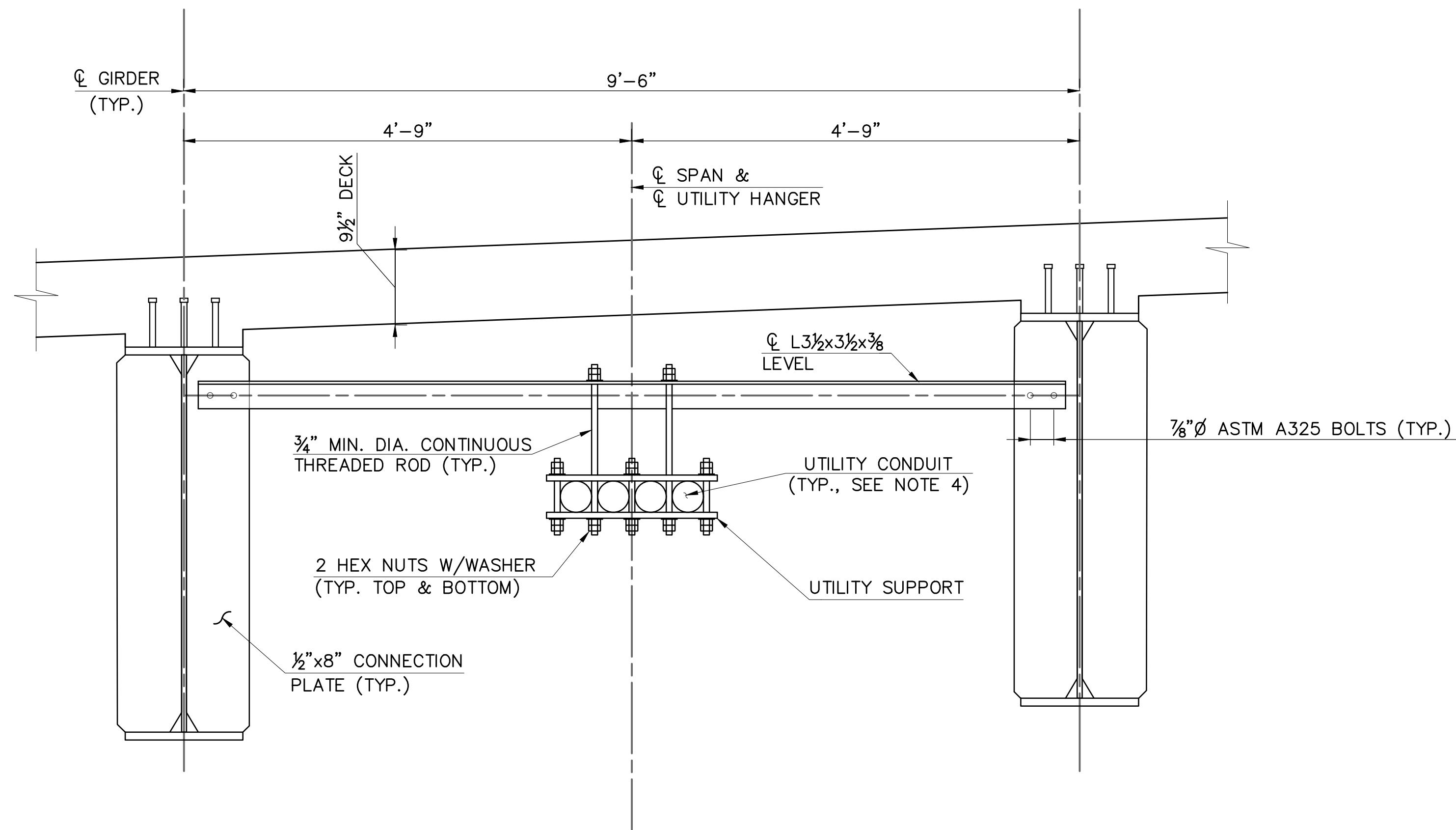
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80 W. Baltimore St., Hagerstown, MD 21740
Phone: 240-313-2460 Fax: 240-313-2401

PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK
DITCH DETAILS AND SCHEDULE
SOIL EROSION CONTROL



ADDENDUM NO. 3
ATTACHMENT C
Sheet 13 of 37

SCALE AS SHOWN
SHEET NO. 28 OF 145
DRAWING SD-10
PROJECT NO. 10-244



UTILITY HANGER DETAIL

SCALE: 1" = 1'-0"

NOTES:

1. UTILITY HANGER DETAIL SHOWN INDICATES MINIMUM SUPPORT MEMBER AND CONNECTION SIZES. CONTRACTOR TO PERFORM FINAL DESIGN OF PROPOSED SUPPORT OR APPROVED EQUAL. SHOP DRAWINGS OF SUPPORTS MUST BE PROVIDED AND APPROVED PRIOR TO CONSTRUCTION.
2. PAINT ALL HANGERS, SUPPORTS AND ASSOCIATED HARDWARE IN ACCORDANCE WITH THE SPECIFICATIONS. THE FINISH COAT SHALL MATCH FEDERAL STANDARD 595C COLOR NO. 20090.
3. VERTICAL POSITION OF UTILITIES MUST BE SET TO PROVIDE AT LEAST 3" CLEARANCE TO BOTTOM OF BEAMS FROM UTILITY OR ITS CASING. IN ADDITION, MAINTAIN AT LEAST 1" CLEARANCE FROM UTILITY TO TOP OR BOTTOM HORIZONTAL REBARS IN BACKWALL AND AT LEAST 3" CLEAR TO CROSS FRAME MEMBERS.
4. 4 - 4" Ø UTILITY CONDUITS IN BAY 1 SHOWN. PROVIDE SIMILAR SUPPORT FOR BAY 2 UTILITIES.
5. ALL BOLTS TO BE 7/8" Ø HIGH STRENGTH ASTM A325.
6. ALL BOLT HOLES IN CONNECTION PLATES SHALL BE 15/16" Ø.
7. ALL STRUCTURAL STEEL SHOWN, INCLUDING SHAPES AND PLATES, SHALL CONFORM TO A709 GRADE 50.
8. FOR CONNECTION PLATE WELD TERMINATION DETAILS, SEE STD. NO. BR-SS(8.10)-EB-154.
9. ALL CONDUIT SHALL BE SCHEDULE 40 PVC.
10. TOP OF CONDUIT SHALL BE A MINIMUM OF 30" BELOW TOP OF FINISHED GRADE.
11. COST OF UTILITY HANGERS TO BE INCLUDED WITH ITEM 4020 UTILITIES ON STRUCTURES.

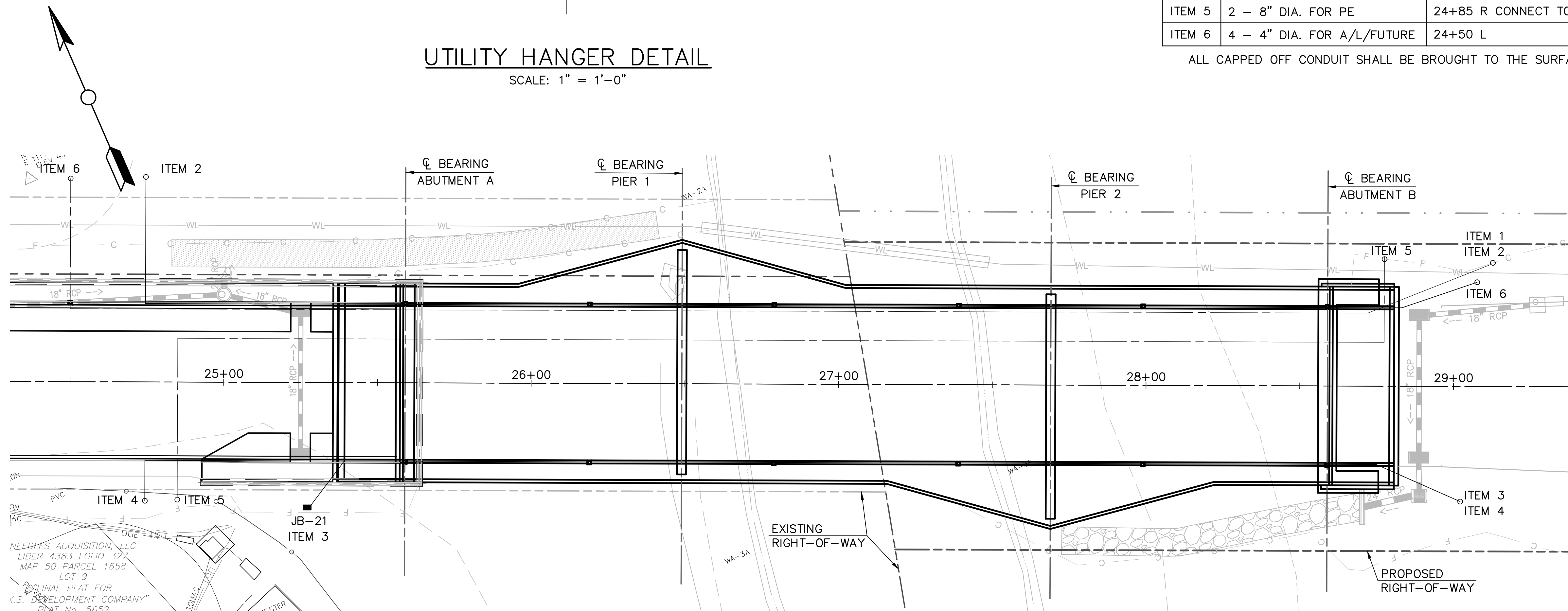
12. COST OF CONDUITS AND ACCESSORIES PAID FOR UNDER PERTINENT CONDUIT ITEM, BRIDGE ATTACHED OR TRENCHED

	ENCASED IN LEFT BARRIER:	LOCATION (DOWN STA.)	LOCATION (UP STA.)
ITEM 1	1 - 3" DIA. FOR LIGHTS	JB-07 STA. 23+62 L	B&C 29+10 L
ITEM 2	2 - 2" DIA. FOR FUTURE HLD	B&C 24+75 L	B&C 29+10 L

	ENCASED IN RIGHT BARRIER:	LOCATION (DOWN STA.)	LOCATION (UP STA.)
ITEM 3	1 - 3" DIA. FOR LIGHTS	JB-21 STA. 24+89 R	B&C 29+10 R
ITEM 4	2 - 2" DIA. FOR FUTURE HLD	B&C 24+50 R	B&C 29+10 R

	UNDER BRIDGE:	LOCATION (DOWN STA.)	LOCATION (UP STA.)
ITEM 5	2 - 8" DIA. FOR PE	24+85 R CONNECT TO EXIST.	B&C 28+80 L
ITEM 6	4 - 4" DIA. FOR A/L/FUTURE	24+50 L	B&C 29+05 L

ALL CAPPED OFF CONDUIT SHALL BE BROUGHT TO THE SURFACE UNLESS NOTED OTHERWISE.



UTILITY CONDUIT - PLAN

SCALE: 1" = 20'



ADDENDUM NO. 3
ATTACHMENT C
Sheet 15 of 37

DRAWING
S-30

NO.	REVISION DESCRIPTION	BY	DATE
1	UPDATED NOTES	JSM	

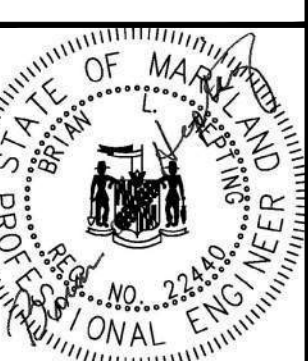
DESIGNED BY: CJK
DRAWN BY: MBP
CHECKED BY: KMD
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

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

**PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK**

UTILITY HANGER DETAILS



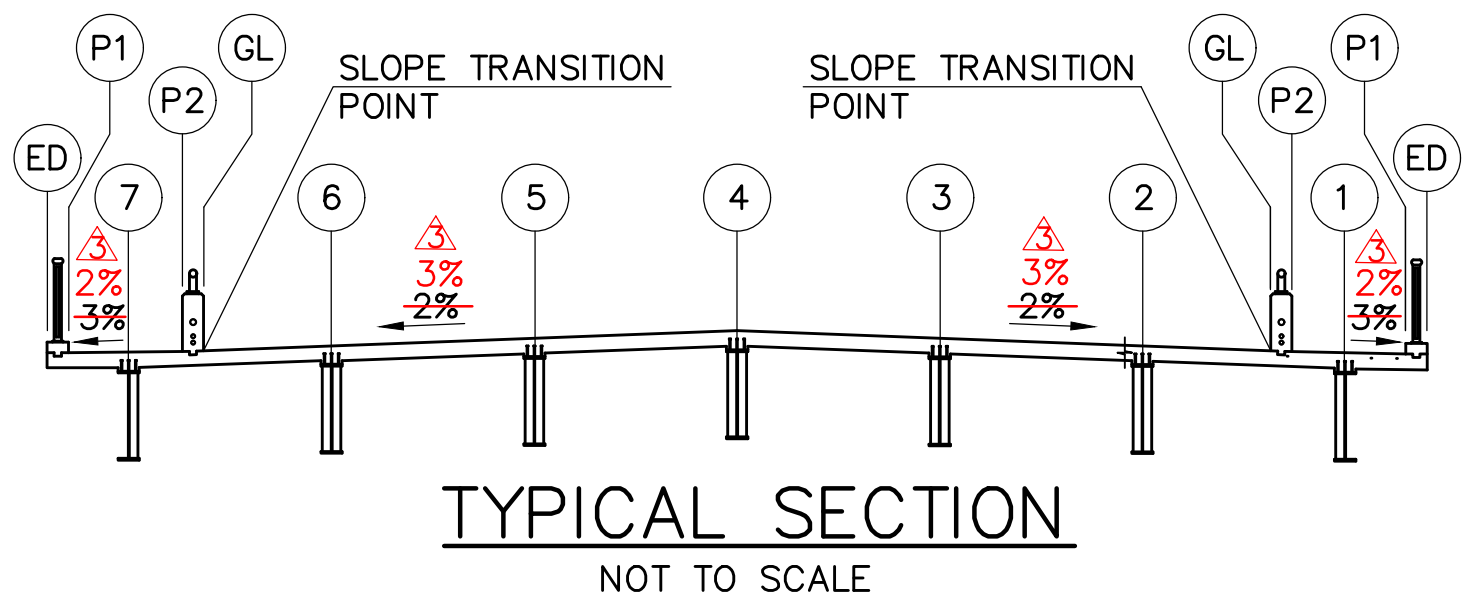
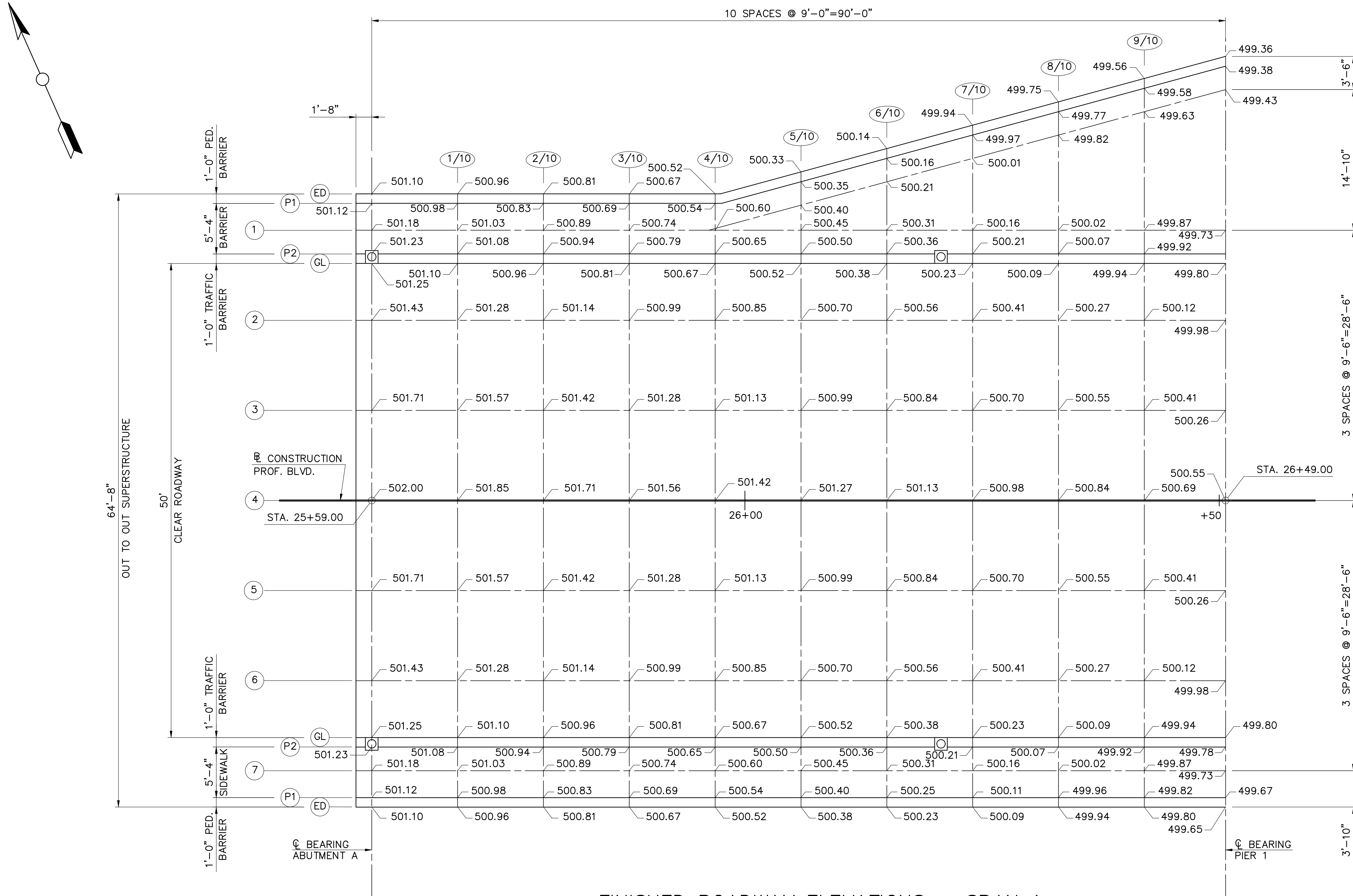
SCALE
AS NOTED

SHEET NO.
58 OF 145

PROJECT NO.
10-244

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 NEEDLES ACQUISITION, LLC
 LIBER 4383 FOLIO 327
 MAP 50 PARCEL 1658
 LOT 9
 ORIGINAL PLAN FOR
 C.S. DEVELOPMENT COMPANY
 DIST. No. 5652

R:\C21\SYS - \Veh\2014\2014\14187\Work\Plan\CONSTRUCTION\DWG\STR_05-01.dwg
 Oct 15, 2019 - 3:45pm - ENVCGB Plot Scale 1"=10'-0"



FINISHED ROADWAY ELEVATIONS - SPAN 1
NOT TO SCALE

- NOTES:
1. THE FINISHED ROADWAY ELEVATIONS SHOWN ARE TO TOP OF CONCRETE DECK.
 2. FOR VERTICAL CURVE PROFILE, SEE DWG. S-1.

ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 16 of 37

DRAWING
S-36

DATE		BY		REVISION DESCRIPTION		NO.		DESIGNED BY:		DRAWN BY:		CHECKED BY:		DATE:	
			MBP	UPDATED TYPICAL SECTION										APRIL 2019	
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															
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK FINISHED ROADWAY ELEVATIONS - SPAN 1															
SCALE 1"=10'-0"															
SHEET NO. 64 OF 145															
PROJECT NO. 10-244															

SOIL EROSION, SEDIMENT CONTROL, & SEEDING NOTES

- All soil erosion control measures shall comply with the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control" and the provisions of the approved plan.
- All grading and stabilization shall comply with the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control", "Section B- Grading and Stabilization" and the provisions of the approved plan.
- All soil erosion and sediment control practices (ESD and BMP) are to be constructed and/or installed prior to or at the initiation of grading in accordance with the "2011 Maryland Standards and Specification for Soil Erosion and Sediment Control" and the approved plan.
- A grading unit in the maximum contiguous area allowed to be graded at a given time and is limited to 20 acres. Work may proceed to a subsequent grading unit when at least 50% of the disturbed area in the preceding grading unit has been stabilized and approved by the enforcement authority and/or the Washington County Soil Conservation District (approval authority). Unless otherwise specified and approved by the approval authority, no more than 30 acres cumulatively may be disturbed at a given time.
- For initial soil disturbance or re-disturbance, temporary or permanent stabilization must be completed within:
 - Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
 - Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.
- Stockpiles must be stabilized in accordance within the 7 day stabilization requirement, as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization (as applicable)
- All constructed channels and swales shall have specified treatment installed to the design flow depth. Complete downstream to upstream as construction progresses. An installation detail shall be shown on the plans.
- All storm drains and sanitary sewer lines not in paved areas are to be mulched and seeded within 3 days of initial backfill unless otherwise specified on the plans.
- Electric power, telephone, and gas lines are to be compacted, seeded, and mulched within 3 days after initial backfill unless otherwise specified on the plans.
- No slope shall be greater than 2:1.
- As required by Section B of the "2011 Maryland Standards and Specification for Soil Erosion and Sediment Control", "Adequate Vegetative Stabilization" is defined as 95% ground cover. The Washington County Soil Conservation District requires the project adhere to this for scheduling of the Final Site Closeout Review and/or release of the site for soil erosion and sediment control.

For sites 1.0 acre or more, the following are required:

- Maryland Department of the Environment, General Permit for Stormwater Associated with a Construction Activity, NPDES Permit Number MDRC, State Discharge Permit Number 14CP, or an Individual Permit.
- The Maryland Department of the Environment (General/Individual Permit- Notice Of Intent- NOI) application and permit shall be posted and/or available on-site at all times.
- During construction, all soil erosion and sediment control practices (ESD and BMP) shall be inspected and recorded on the "Standard Inspection Form", "General Permit for Stormwater Associated with a Construction Activity" per the Maryland Department of the Environment (General/Individual Permit - Notice of Intent- NOI)
- Following construction and release of the site for soil erosion and sediment control by the Washington County Soil Conservation District, i.e., all portions of a site have been permanently stabilized, and all stormwater discharges from construction sites that are authorized by the permit are eliminated, the authorized permittee shall submit the Maryland Department of the Environment, General/Individual Permit- Notice of Termination- NOT.

GENERAL SEQUENCE OF CONSTRUCTION

GENERAL NOTES

- CONTRACTOR TO CONTACT WSCD (301) 797-6821 EXT. 3, THE WASHINGTON CO. DPW - ENGINEERING & CONSTRUCTION (240) 313-2400, AND THE WASHINGTON CO. DEPARTMENT OF PLANNING & ZONING (240) 313-2430 AT LEAST FIVE DAYS PRIOR TO THE START OF ANY EARTHWORK TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL PERFORM WORK IN THE SEQUENCE OF CONSTRUCTION DETAILED BELOW. THE WORK HAS BEEN DIVIDED INTO TWO SEPARATE CONTRACTS, THIS CONTRACT (10-244) AND A SUBSEQUENT CONTRACT (10-270) WHICH WILL TAKE PLACE AT A LATER TIME. THIS CONTRACT HAS BEEN FURTHER SUBDIVIDED INTO PARTS A (WORK ON WEST SIDE OF ANTIETAM CREEK) AND B (WORK ON EAST SIDE OF ANTIETAM CREEK), BUT MAY BE COMPLETED SIMULTANEOUSLY. ONLY WORK TO BE COMPLETED UNDER CONTRACT 10-244 IS SHOWN IN THESE PLANS.
- A PORTION OF THE ROADWAY WILL BE BROUGHT TO FINAL GRADE AS PART OF THIS CONTRACT AND IS TO BE PERMANENTLY STABILIZED AT THE COMPLETION OF WORK, SEE THE TYPICAL SECTION ON THIS SHEET, BELOW. THE PORTION SPECIFIED TO BE TEMPORARILY STABILIZED WILL BE BROUGHT TO FINAL GRADE UNDER THE SUBSEQUENT CONTRACT.
- ALL E&S CONTROLS INSTALLED UNDER THIS CONTRACT ARE TO BE REMOVED AT THE COMPLETION OF WORK UNLESS SPECIFICALLY INSTRUCTED OTHERWISE IN THE PLANS OR AT THE DIRECTION OF THE COUNTY.

PART A: WEST OF ANTIETAM CREEK (1.3 ACRES OF DISTURBANCE)

- INSTALL SCE/ACCESS ROAD AT STA. 23+10 AT END OF EXISTING PROFESSIONAL COURT.
- INSTALL SILT FENCE (SF) AND SUPER SILT FENCE (SSF) AS SHOWN IN THE PLANS.
- ONCE THOSE CONTROLS ARE IN PLACE, CLEAR, GRUB, STRIP TOPSOIL, AND BEGIN ROAD CONSTRUCTION FROM STA. 23+00 TO 25+80, INCLUDING MOVING THE EXISTING CUL-DE-SAC, RECONSTRUCTING THE EXISTING PRIVATE ENTRANCE, AND CONSTRUCTING RETAINING WALLS 1, 2, AND 3. ANY SPOIL AND/OR BORROW MUST COME FROM OR GO TO A SITE THAT HAS A CURRENT AND APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- GRADE THE DITCH FROM 0/3-1 TO ANTIETAM CREEK AS SHOWN ON THE PLANS AND USING END OF DAY STABILIZATION. ONCE COMPLETE, REMOVE 9 LF. OF SSF FROM THE END OF THE DITCH. THE DITCH MUST BE STABILIZED PRIOR TO THE INSTALLATION OF 0/3-1.
- INSTALL INLET PROTECTION AND RIPRAP OUTFALL PROTECTION AS THE STORM DRAINS ARE CONSTRUCTED. ADJUST INLET PROTECTION AS NEEDED AS THE ROADWAY IS BROUGHT TO GRADE.
- THE END OF THE 18" PIPE EXTENDING WEST FROM INLET 1/3-1 SHALL BE BULKHEADED NEAR STA. 21+40, FOR USE IN THE SUBSEQUENT CONTRACT 10-270 MENTIONED ABOVE. THE BULKHEAD SHALL BE INSTALLED USING TIMBER OR OTHER MEANS OF TEMPORARILY BLOCKING THE PIPE IN A MANNER ACCEPTABLE TO THE ENGINEER.
- STABILIZE ALL AREAS AS THEY ARE BROUGHT TO FINISHED GRADE.
- ONCE THE SITE IS STABILIZED, CONTACT THE WSCD FOR APPROVAL PRIOR TO INSTALLING THE FILTERRA SYSTEMS. FILTERRA SYSTEMS ARE TO BE INSTALLED AS DETAILED IN THE SWM PLANS AND THE OPENINGS ARE TO BE BLOCKED ONCE INSTALLED. THE BLOCKING SHALL REMAIN IN PLACE AT THE END OF WORK UNDER THIS CONTRACT.

PART B: EAST OF ANTIETAM CREEK (9.0 ACRES OF DISTURBANCE)

- TO PROVIDE CONSTRUCTION ACCESS, INSTALL TEMPORARY ACCESS CULVERT 2-1 ACROSS ANTIETAM CREEK FOLLOWING THE STEPS SHOWN AT RIGHT. ALL LEGAL LOADS WILL BE PERMITTED TO TRAVERSE THE TEMPORARY CULVERT.
- GRADE THE DITCH FROM EW/4-1 TO ANTIETAM CREEK AS SHOWN ON THE PLANS AND USING END OF DAY STABILIZATION. ONCE COMPLETE, REMOVE 9 LF. OF SSF FROM THE END OF THE DITCH.
- ONCE CONTROLS ARE INSTALLED ON EAST BANK OF ANTIETAM CREEK BEGIN BRIDGE CONSTRUCTION. RIPRAP SLOPE PROTECTION DOWNSTREAM OF FILTER BAGS SHALL BE CONSTRUCTED WHEN FILTER BAGS ARE INSTALLED.
- ONCE BRIDGE CONSTRUCTION IS COMPLETE, REMOVE TEMPORARY ACCESS CULVERT 2-1 FOLLOWING THE STEPS SHOWN AT RIGHT.
- INSTALL SCE 7-1 AT STA. 52+63 ALONG PROFESSIONAL BOULEVARD.
- DURING A 3-DAY DRY WEATHER FORECAST, CONSTRUCT THE CULVERT AND RIPRAP OUTFALL PROTECTION NEAR STA. 46+50 AND STABILIZE THE AREA.
- INSTALL ED 6-2 TO DIRECT OFFSITE DRAINAGE INTO THE NEWLY CONSTRUCTED CULVERT.
- CONSTRUCT THE CHANNEL FROM HW/8-1 TO STA. 52+63. PORTIONS OF THE CHANNEL NOT PROTECTED BY ED 6-2 SHALL BE COMPLETED USING SAME DAY STABILIZATION. ONCE THE CHANNEL IS STABILIZED, ED 6-2 CAN BE REMOVED AND DRAINAGE DIRECTED INTO THE CHANNEL.
- CLEAR AND GRUB FOR AND INSTALL THE REMAINING PERIMETER CONTROLS WITHIN THE PROJECT LIMITS AND ESTABLISH THE TOPSOIL/MATERIAL STOCKPILES AS SHOWN IN THE PLANS.
- THE CULVERT CROSSING NEAR STA. 43+50 SHALL BE COMPLETED DURING A 3-DAY DRY WEATHER FORECAST AND MUST BE COMPLETED CONCURRENTLY WITH THE CONSTRUCTION OF RETAINING WALL NO. 4. RIPRAP OUTFALL PROTECTION IS TO BE INSTALLED AS SHOWN IN THE PLANS AND SHALL BE EXTENDED AS NEEDED TO MEET THE EXISTING RIPRAP CHANNEL. INSTALL RIPRAP INFLOW PROTECTION TO THE EXTENT NOT IN CONFLICT WITH ED 5-2, ED 5-3, OR TSOS 5-2. REMAINING RIPRAP SHALL BE INSTALLED IMMEDIATELY AFTER THE CONTROLS ARE REMOVED.
- THE CULVERT CROSSING NEAR STA. 36+50 SHALL BE COMPLETED DURING A 3-DAY DRY WEATHER FORECAST.
- ONCE PERIMETER CONTROLS ARE IN PLACE, CLEAR, GRUB, STRIP TOPSOIL, AND BEGIN ROAD CONSTRUCTION WITHIN THAT CORRIDOR. ANY SPOIL AND/OR BORROW MUST COME FROM OR GO TO A SITE THAT HAS A CURRENT AND APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN. INSTALL INLET PROTECTION WHERE SHOWN AS THE STORM DRAINS ARE INSTALLED AND ADJUST AS NECESSARY AS THE ROADWAY IS BROUGHT TO GRADE.

Temporary Seeding Summary						
Hardiness Zone (Fig. B.3): 6b Seed Mixture (Table B.1): N/A					Fertilizer Rate (10-20-20)	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths		
N/A	Barley	96	Mar.1 to May 15 Aug.15 to Oct.15	1 in	436 lb/ac (1 lb/1000 sf)	2 tons per acre (90 lb/1000 sf)

Permanent Seeding Summary								
Hardiness Zone (Fig. B.3): 6b Seed Mixture (Table B.3): 6					Fertilizer Rate (10-20-20)			Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ O	
6	Tall Fescue	40	Mar.1 to May 15 Aug.15 to Oct.15	¼ - ½ in	45 pounds per acre (1.0 lb/1000 sf)	90 pounds per acre (2.0 lb/1000 sf)	90 pounds per acre (2.0 lb/1000 sf)	2 tons per acre (90 lb/1000 sf)
	Perennial Ryegrass	25	Mar.1 to May 15 Aug.15 to Oct.15	¼ - ½ in				
	White Clover	5	Mar.1 to May 15 Aug.15 to Oct.15	¼ - ½ in				

PART B: CONTINUED FROM LEFT

- ONCE THE SITE IS STABILIZED, CONTACT THE WSCD FOR APPROVAL PRIOR TO INSTALLING THE FILTERRA SYSTEMS. FILTERRA SYSTEMS ARE TO BE INSTALLED AS DETAILED IN THE SWM PLANS AND THE OPENINGS ARE TO BE BLOCKED WITH SANDBAGS ONCE INSTALLED. THE BLOCKING SHALL REMAIN IN PLACE AT THE END OF WORK UNDER THIS CONTRACT.
- STABILIZE ALL AREAS AS THEY ARE BROUGHT TO FINISHED GRADE.
- AT THE COMPLETION OF THE PROJECT, THE ROADWAY SHOULD BE STABILIZED PER THE TYPICAL SECTION SHOWN ON THIS SHEET.
- ONCE ALL AREAS ARE STABILIZED CONTACT WSCD AT 301-797-6821 EXT. 3 FOR A FINAL CONSTRUCTION INSPECTION. UNLESS OTHERWISE DIRECTED BY THE COUNTY, ALL CONTROLS SHALL BE REMOVED AND THE CORRESPONDING DISTURBED AREAS STABILIZED IMMEDIATELY.

TEMPORARY ACCESS CAUSEWAY INSTALLATION

- INSTALL E&S MEASURES UP TO THE EDGE OF THE CREEK AND CONSTRUCT THE ACCESS ROAD.
- OUTSIDE OF THE INSTREAM RESTRICTION PERIOD, WORKING IN THE WET DURING LOW FLOW PERIODS, INSTALL A TYPE III TURBIDITY CURTAIN ON THE DOWNSTREAM SIDE OF THE CAUSEWAY AND CLEAR THE CREEK BED OF LOOSE DEBRIS. PLACE GEOTEXTILE ON THE CREEK BED FOR THE ENTIRE CONTACT AREA OF THE CAUSEWAY AND TEMPORARILY SECURE IT WITH BAGS OF CAUSEWAY AGGREGATE. NO GRADING SHALL OCCUR IN THE STREAM.
- WHILE PROGRESSING THE GEOTEXTILE ACROSS THE CREEK CAREFULLY FILL IN IRREGULARITIES IN THE CREEK BED TO PROVIDE A FLAT BEDDING SURFACE FOR THE CAUSEWAY PIPES. THROUGHOUT ALL STAGES OF CONSTRUCTION PLACE WASHED AGGREGATE IN UNIFORM 12-INCH LIFTS.
- SEQUENTIALLY PLACE SECTIONS OF PIPE WHILE FILLING THE SPACE BETWEEN THE PIPES WITH AGGREGATE.
- ONCE THE FIRST SECTION OF THE CAUSEWAY IS UP TO GRADE, INCLUDING THE 18-INCHES OF CLASS I RIPRAP ON THE EXPOSED SURFACES OF THE CAUSEWAY AND AS NECESSARY CHOKING THE TRAVEL WAY WITH NO. 57 STONE OR LARGER, MOVE THE CRANE OR BACKHOE ON TOP OF THE CAUSEWAY AND CONTINUE PLACING SECTIONS OF PIPE AND AGGREGATE UNTIL THE OPPOSITE BANK IS REACHED. REMOVE THE TURBIDITY CURTAIN ONCE CAUSEWAY INSTALLATION IS COMPLETE.
- THE COMPLETED CAUSEWAY MAY BE USED DURING INSTREAM RESTRICTION PERIODS.

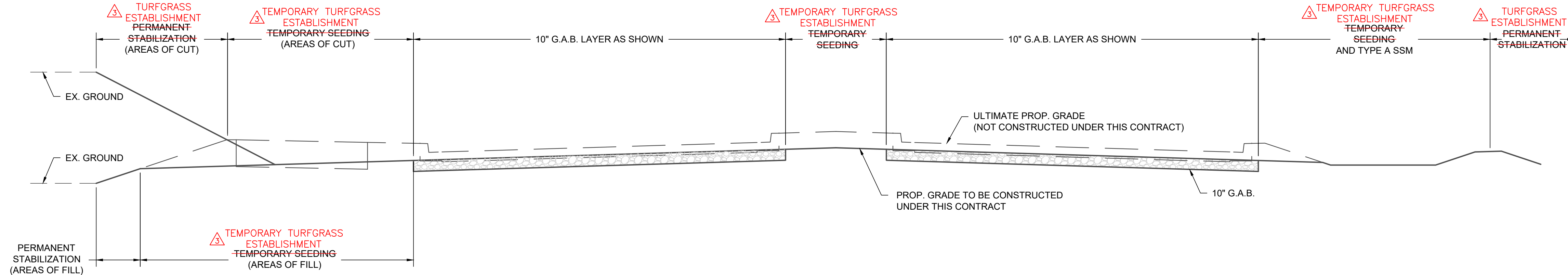
TEMPORARY ACCESS CAUSEWAY REMOVAL

- ONCE CONSTRUCTION IS COMPLETE, THE AREAS BEYOND THE CAUSEWAY SHALL BE GRADED AND STABILIZED.
- OUTSIDE OF THE INSTREAM RESTRICTION PERIOD, THE CAUSEWAY SHALL BE REMOVED IN THE SAME MANNER IT WAS BUILT. NOTE A TYPE III TURBIDITY CURTAIN SHALL BE USED ON THE DOWNSTREAM SIDE OF THE CAUSEWAY TO CONTAIN FINES THAT MAY HAVE ACCUMULATED IN THE CAUSEWAY DURING ITS USE.
- WORKING IN THE WET, CARE SHALL BE TAKEN TO REMOVE THE AGGREGATE, SECTIONS OF PIPE, ITS BEDDING LAYER, BAGS OF AGGREGATE, THE GEOTEXTILE, RECOVER AGGREGATE THAT MAY HAVE TRAVELED BEYOND THE LIMITS OF GEOTEXTILE AND RETURN THE STREAM BED TO ITS ORIGINAL CONDITION.
- GRADE AND STABILIZE THE BANKS OF THE CREEK THAT WERE DISTURBED BY THE CAUSEWAY CONSTRUCTION. REMOVE THE TURBIDITY CURTAIN AFTER THE STREAMBED AND BANKS ARE STABILIZED.

NOTE: THE USDA SOIL SURVEY OF WASHINGTON COUNTY IDENTIFIES THE SOILS ON THIS PROJECT AS BEING "KARST LANDSCAPE" SOILS.

STANDARD SYMBOLS

- STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE
- SUPER SILT FENCE
- SILT FENCE
- FILTER LOG
- EARTH DIKE (ED)
- DIVERSION FENCE
- TEMPORARY GABION OUTLET STRUCTURE
- TEMPORARY STONE OUTLET STRUCTURE
- CURB INLET PROTECTION
- MEDIAN INLET PROTECTION
- MEDIAN SUMP INLET PROTECTION
- STANDARD INLET PROTECTION
- TEMPORARY ACCESS CULVERT



EROSION & SEDIMENT CONTROL FINAL STABILIZATION TYPICAL SECTION STA. 28+82 TO STA. 52+62.57
SCALE: 1" = 5'

(SEE TYPICAL SECTIONS IN ROADWAY PLANS FOR MORE DETAIL)

ADDENDUM NO. 3
ATTACHMENT C
Sheet 17 of 37

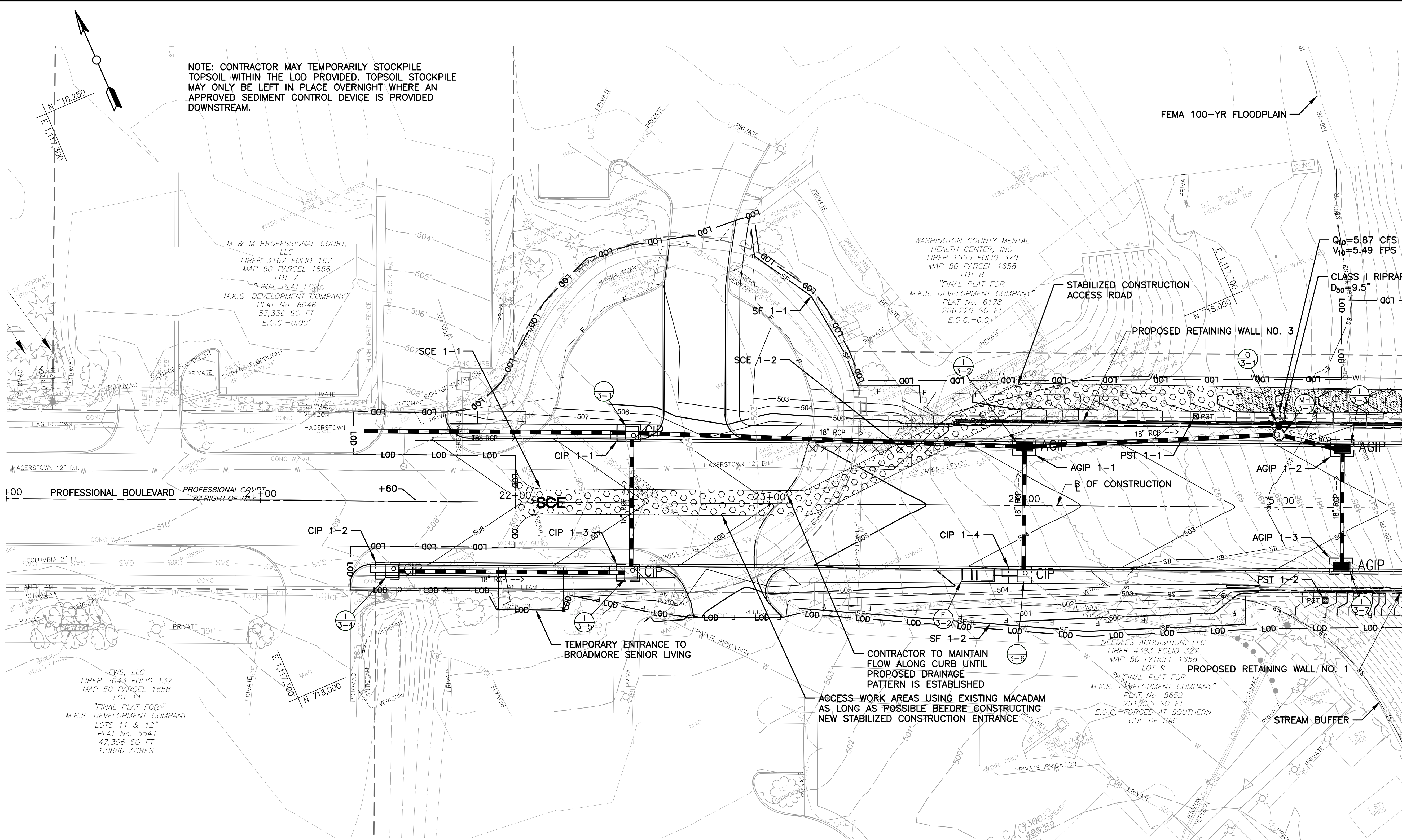
DRAWING	PROJECT NO.
EN-01	10-244

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING
 PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 E&S CONTROL
 GENERAL NOTES

DESIGNED BY: IMS
 DRAWN BY: IMS
 CHECKED BY: BGB
 DATE: APRIL 2019

WASHINGTON COUNTY ADMINISTRATIVE ANNEX, BUILDING
 80 W. BALTIMORE ST., HAGERSTOWN, MD 21740
 PHONE: 240-313-2460 FAX: 240-313-2401

SCALE
 AS SHOWN
 SHEET NO.
 83 OF 145
 PROJECT NO.
 10-244



NOTE: CONTRACTOR MAY TEMPORARILY STOCKPILE TOPSOIL WITHIN THE LOD PROVIDED. TOPSOIL STOCKPILE MAY ONLY BE LEFT IN PLACE OVERNIGHT WHERE AN APPROVED SEDIMENT CONTROL DEVICE IS PROVIDED DOWNSTREAM.

FEMA 100-YR FLOODPLAIN

Q₁₀=5.87 CFS
V₁₀=5.49 FPS
CLASS I RIPRAP
D₅₀=9.5"

MATCHLINE - STATION 25+50

SSF/SF/FL NO.	AVG. SLOPE (%)	MAX SLOPE LENGTH (FT)	ACTUAL SLOPE LENGTH (FT)	MAX SSF/SF/FL LENGTH (FT)	ACTUAL SSF/SF/FL LENGTH (FT)
SF 1-1	6	125	50	1000	109
SF 1-2	35	40	25	250	187

INLET PROTECTION NO.	MAX DA (AC.)	ACTUAL DA (AC.)
CIP 1-1	0.25	0.23
CIP 1-2	0.25	0.31*
CIP 1-3	0.25	0.08
CIP 1-4	0.25	0.12
AGIP 1-1	1.00	0.12
AGIP 1-2	1.00	0.09
AGIP 1-3	1.00	0.09

NOTE: * INDICATES DA EXCEEDS MDE STANDARD ALLOWABLE DA. THIS CONTROL IS STILL RECOMMENDED BASED ON SITE CONDITIONS.

ITEM	QUANTITY (EA.)
SCE 1-1	1

ITEM	QUANTITY (CY)
SCE 1-2	104-210

NOTE: INSTALL TEMPORARY 18" PIPE UNDER SCE AS NEEDED TO MAINTAIN FLOW PATTERNS. PIPE SHALL BE INCIDENTAL TO SCE 1-2. SCE 1-2 WILL BE PAID FOR PER TON OF 2 INCH TO 3 INCH STONE FOR SEDIMENT CONTROL.

ITEM	QUANTITY (EA.)
PST 1-1	1
PST 1-2	1

- LEGEND**
- TYPE A SSM
 - TYPE B SSM
 - RIPRAP

- NOTES:**
- ALL DISTURBED AREAS SHALL BE STABILIZED USING SEED AND MULCH UNLESS OTHERWISE INDICATED IN THE PLANS. TYPE A SOIL STABILIZATION MATTING SHALL BE USED ON ALL SLOPES 3:1 OR GREATER.
 - DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE GENERAL NOTES AND SCHEDULES ON DRAWING EN-01.
 - SEE LANDSCAPE PLANS FOR PROPOSED PERMANENT GROUNDCOVER.



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	DATE		BY	BCG	
	REVISION DESCRIPTION				
	NO			UPDATED	PAY ITEM
DESIGNED BY:	IMS	DRAWN BY:	IMS	CHECKED BY:	BGB
				DATE:	APRIL 2019
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					
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK EROSION AND SEDIMENT CONTROL PLAN					
SCALE 1"=20' SHEET NO. 89 OF 145 PROJECT NO. 10-244					
DRAWING ES-01					

ADDENDUM NO. 3
ATTACHMENT C
Sheet 18 of 37

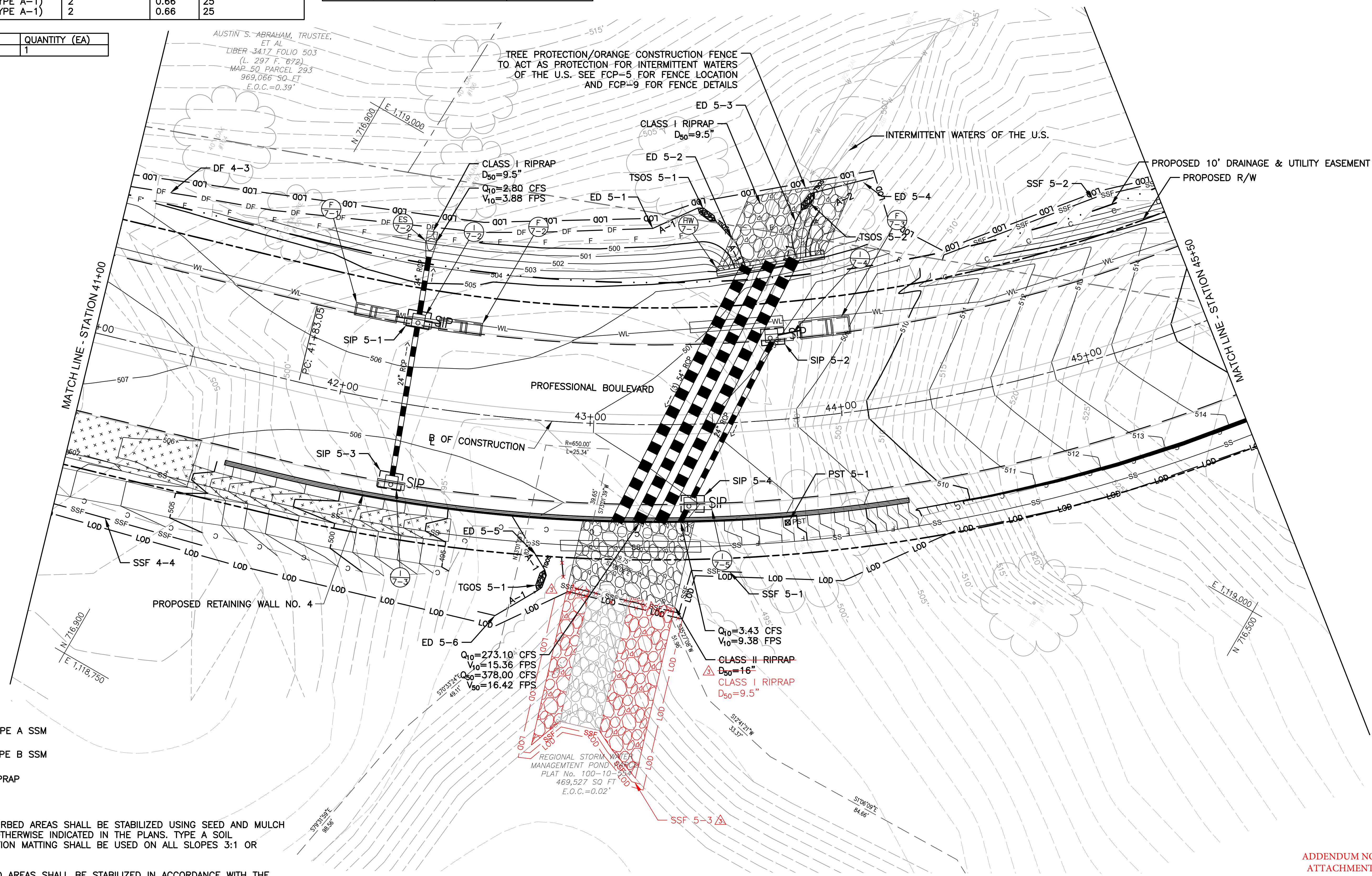
SSF/SF/FL NO.	AVG. SLOPE (%)	MAX SLOPE LENGTH (FT)	ACTUAL SLOPE LENGTH (FT)	MAX SSF/SF/FL LENGTH (FT)	ACTUAL SSF/SF/FL LENGTH (FT)
SSF 5-1	20	200	95	1500	95
SSF 5-2	33	150	130	1000	160
SSF 5-3	25	150	100	1000	60

ED/DF NO.	MAX SLOPE (%)	DA (AC.)	ED/DF LENGTH (FT)
ED 5-1 (TYPE A-1)	2	0.50	25
ED 5-2 (TYPE A-1)	2	0.50	25
ED 5-3 (TYPE A-1)	2	0.30	25
ED 5-4 (TYPE A-2)	10	0.30	25
ED 5-5 (TYPE A-1)	2	0.66	25
ED 5-6 (TYPE A-1)	2	0.66	25

INLET PROTECTION NO.	MAX DA (AC.)	ACTUAL DA (AC.)
SIP 5-1 (TYPE B)	1	0.31
SIP 5-2 (TYPE B)	1	0.31
SIP 5-3 (TYPE A)	0.25	0.18
SIP 5-4 (TYPE B)	1	0.29

TGOS/TSOS NO.	DA (AC.)	REQUIRED STORAGE (CF)
TSOS 5-1	0.50	900
TSOS 5-2	0.30	540
TGOS 5-1	0.66	1188

ITEM	QUANTITY (EA)
PST 5-1	1



LEGEND

- TYPE A SSM
- TYPE B SSM
- RIPRAP

NOTES:

1. ALL DISTURBED AREAS SHALL BE STABILIZED USING SEED AND MULCH UNLESS OTHERWISE INDICATED IN THE PLANS. TYPE A SOIL STABILIZATION MATTING SHALL BE USED ON ALL SLOPES 3:1 OR GREATER.
2. DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE GENERAL NOTES AND SCHEDULES ON DRAWING EN-01.
3. SEE LANDSCAPE PLANS FOR PROPOSED PERMANENT GROUND COVER.

ADDENDUM NO. 3
ATTACHMENT C
Sheet 19 of 37

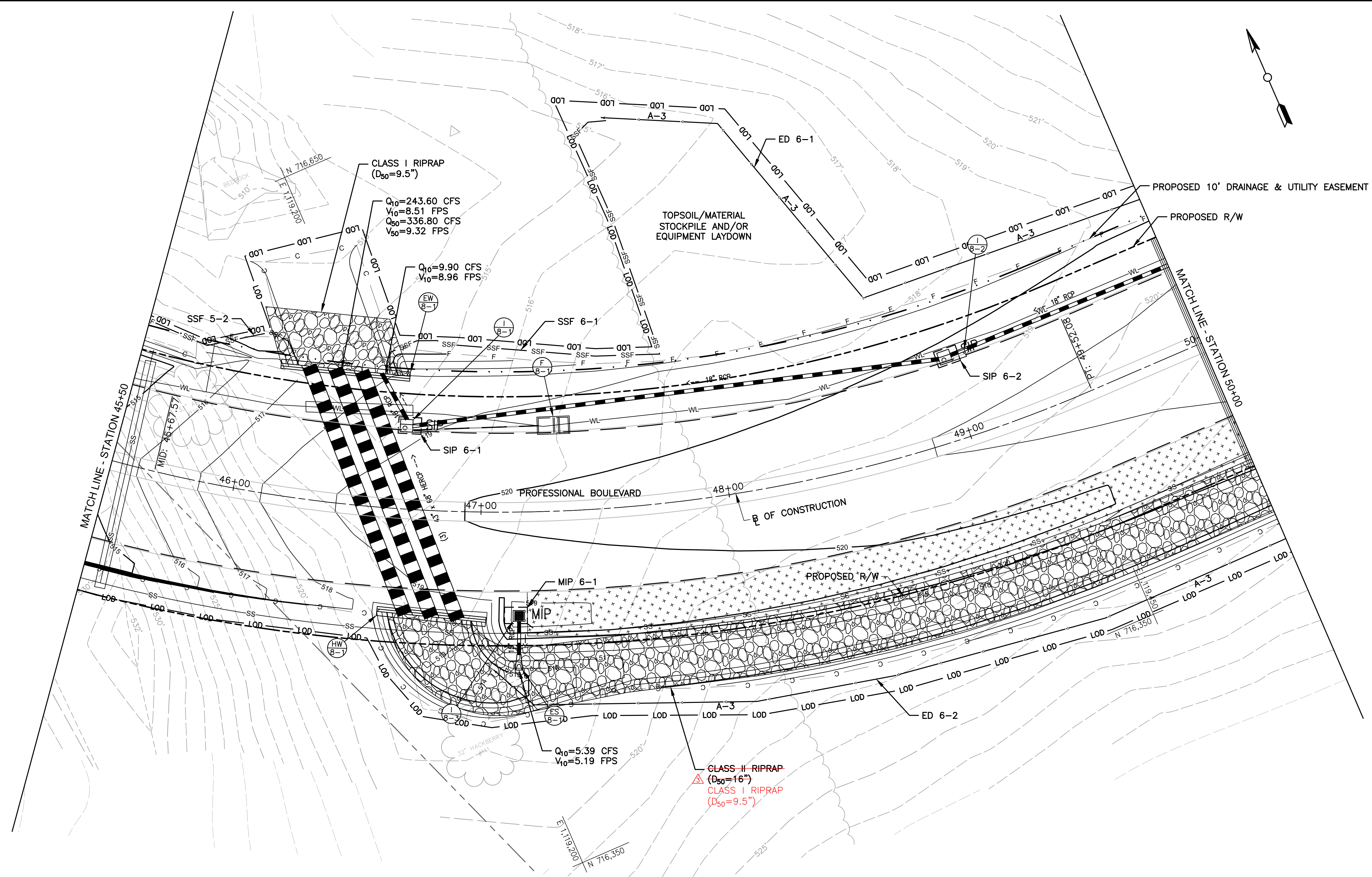


DRAWING
ES-05

DATE		BY		REVISION DESCRIPTION		NO.	
			BCG	UPDATED RIPRAP, SSF, AND LOD			
DESIGNED BY:	IMS	DRAWN BY:	IMS	CHECKED BY:	BGB	DATE:	APRIL 2019
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING 							
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK EROSION AND SEDIMENT CONTROL PLAN							
Washington County Administrative Annex, Building 80 W. Baltimore St., Hagerstown, MD 21740 Phone: 240-313-2460 Fax: 240-313-2401							
SCALE	1"=20'						
SHEET NO.	93 OF 145						
PROJECT NO.	10-244						

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SSF/SF/FL NO.	AVG. SLOPE (%)	MAX SLOPE LENGTH (FT)	ACTUAL SLOPE LENGTH (FT)	MAX SSF/SF/FL LENGTH (FT)	ACTUAL SSF/SF/FL LENGTH (FT)
SSF 6-1	33	150	20	1000	224

ED/DF NO.	MAX SLOPE (%)	DA (AC.)	ED/DF LENGTH (FT)
ED 6-1 (TYPE A-3)	9	2.64	522
ED 6-2 (TYPE A-3)	6	3.85	619

INLET PROTECTION NO.	MAX DA (AC.)	ACTUAL DA (AC.)
MIP 6-1	1	0.47
SIP 6-1 (TYPE A)	0.25	0.24
SIP 6-2 (TYPE A)	0.25	0.15

LEGEND

	TYPE A SSM
	TYPE B SSM
	RIPRAP

- NOTES:**
- ALL DISTURBED AREAS SHALL BE STABILIZED USING SEED AND MULCH UNLESS OTHERWISE INDICATED IN THE PLANS. TYPE A SOIL STABILIZATION MATTING SHALL BE USED ON ALL SLOPES 3:1 OR GREATER.
 - DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE GENERAL NOTES AND SCHEDULES ON DRAWING EN-01.
 - SEE LANDSCAPE PLANS FOR PROPOSED PERMANENT GROUNDCOVER.



ADDENDUM NO. 3
ATTACHMENT C
Sheet 20 of 37

DRAWING
ES-06

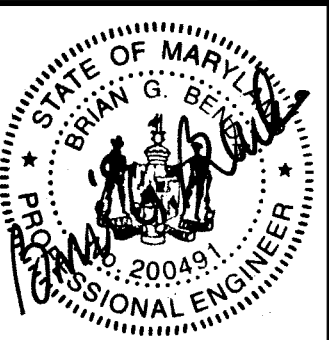
NO.	REVISION DESCRIPTION	BY	DATE
1	UPDATED RIPRAP CLASS	BCG	

DESIGNED BY: IMS
DRAWN BY: IMS
CHECKED BY: BGB
DATE: APRIL 2019

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

**PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK
EROSION AND SEDIMENT
CONTROL PLAN**

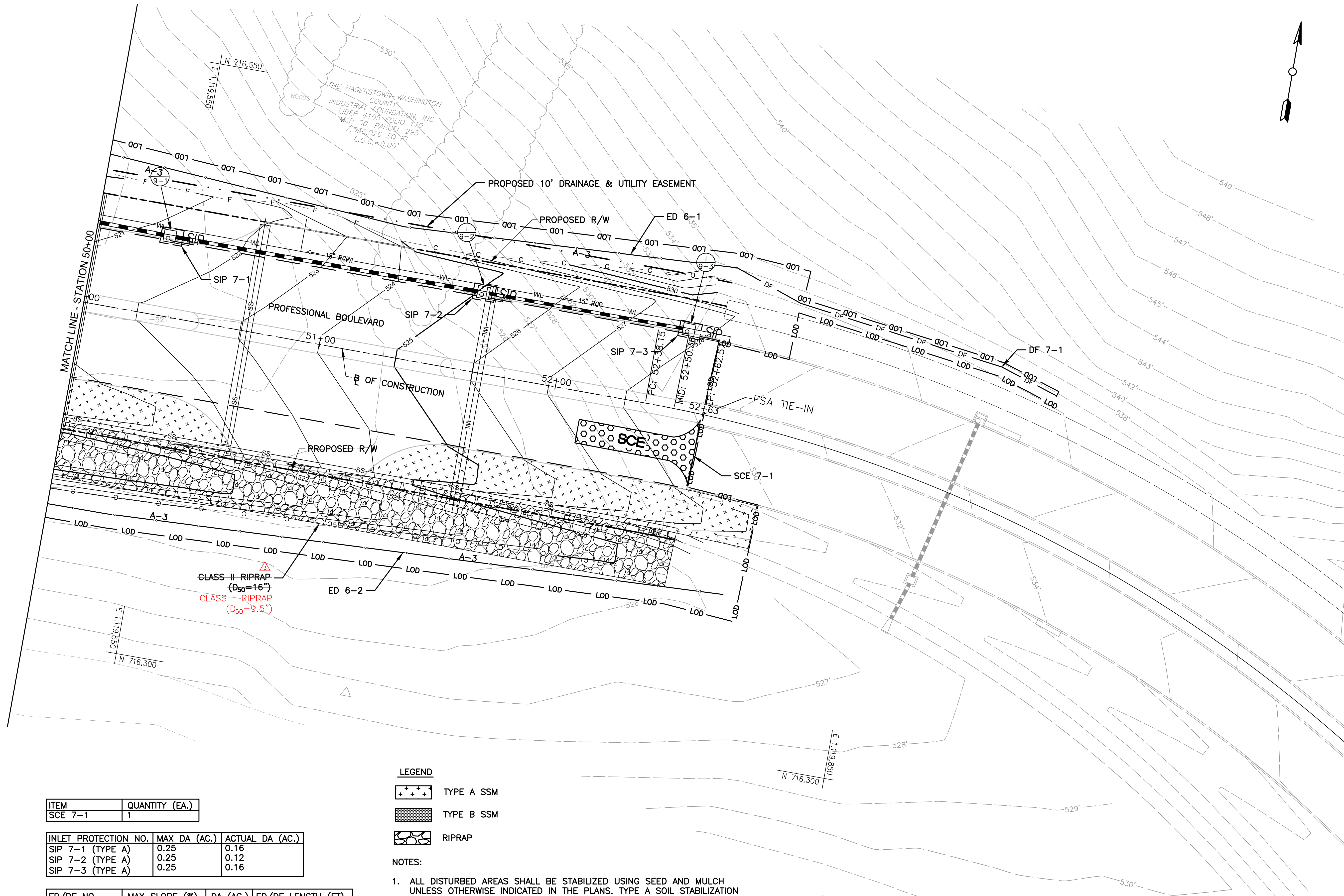
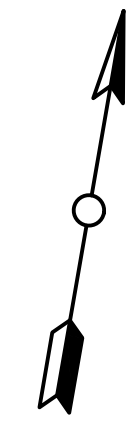


SCALE
1"=20'

SHEET NO.
94 OF 145

PROJECT NO.
10-244

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ITEM	QUANTITY (EA.)
SCE 7-1	1

INLET PROTECTION NO.	MAX DA (AC.)	ACTUAL DA (AC.)
SIP 7-1 (TYPE A)	0.25	0.16
SIP 7-2 (TYPE A)	0.25	0.12
SIP 7-3 (TYPE A)	0.25	0.16

ED/DF NO.	MAX SLOPE (%)	DA (AC.)	ED/DF LENGTH (FT)
DF 7-1	8	0.73	145

LEGEND

- TYPE A SSM
- TYPE B SSM
- RIPRAP

NOTES:

1. ALL DISTURBED AREAS SHALL BE STABILIZED USING SEED AND MULCH UNLESS OTHERWISE INDICATED IN THE PLANS. TYPE A SOIL STABILIZATION MATTING SHALL BE USED ON ALL SLOPES 3:1 OR GREATER.
2. DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE GENERAL NOTES AND SCHEDULES ON DRAWING EN-01.
3. SEE LANDSCAPE PLANS FOR PROPOSED PERMANENT GROUNDCOVER.



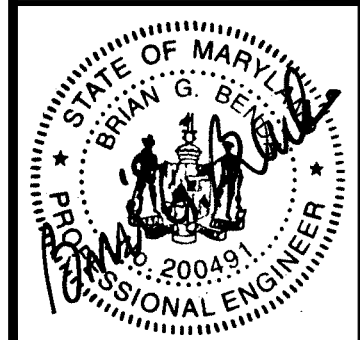
NO.	REVISION DESCRIPTION	BY	DATE
1	UPDATED RIPRAP CLASS	BCC	

DESIGNED BY: IMS
 DRAWN BY: IMS
 CHECKED BY: BGB
 DATE: APRIL 2019

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

**PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 EROSION AND SEDIMENT
 CONTROL PLAN**



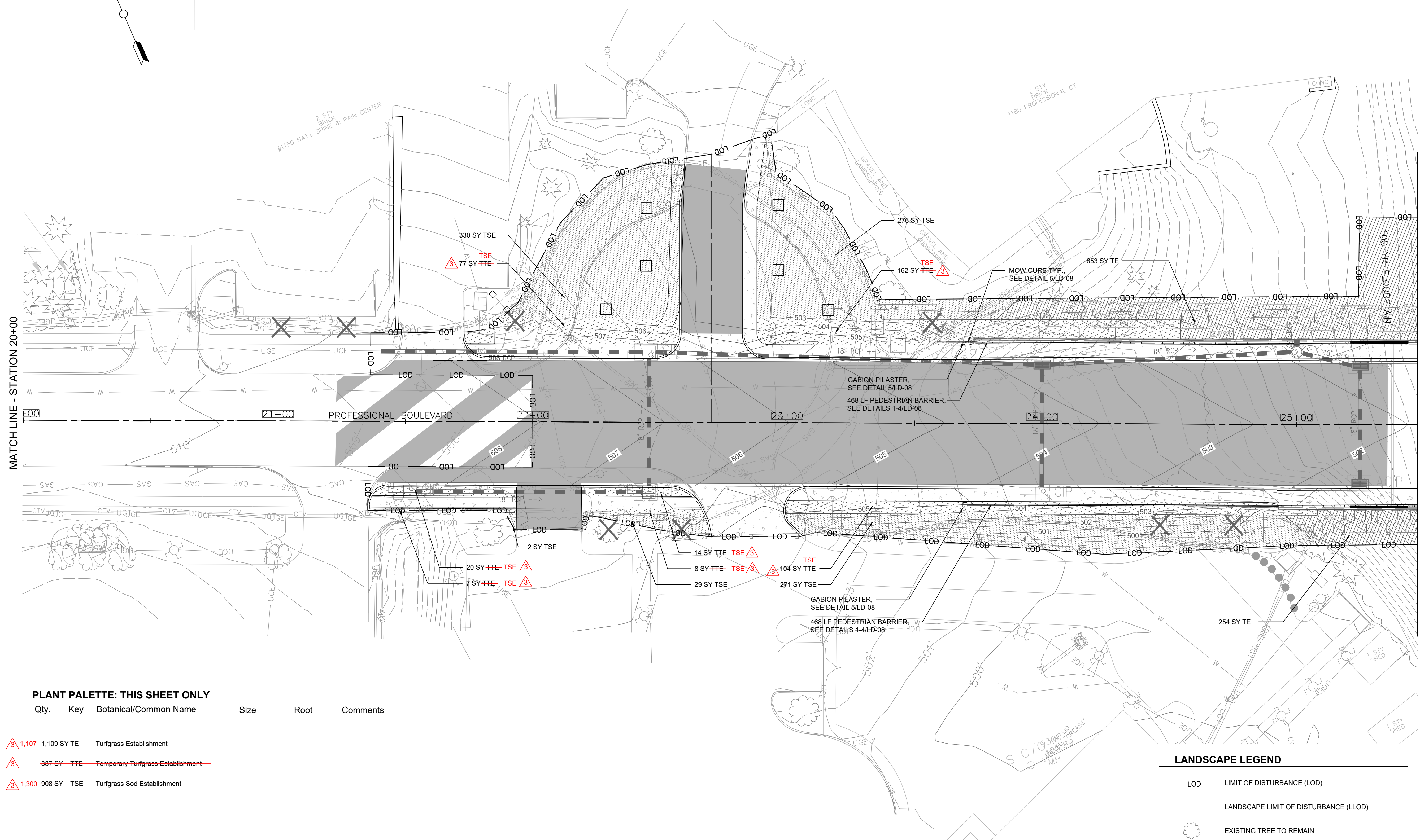
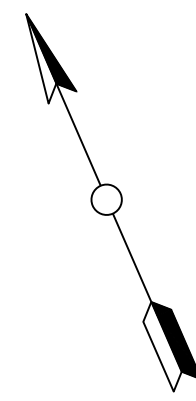
SCALE
 1"=20'

SHEET NO.
 95 OF 145

PROJECT NO.
 10-244

ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 21 of 37

DRAWING
 ES-07



PLANT PALETTE: THIS SHEET ONLY

Qty.	Key	Botanical/Common Name	Size	Root	Comments
------	-----	-----------------------	------	------	----------

- △ 1,107 - 4,109 SY TE Turfgress Establishment
- △ 387 SY TTE Temporary Turfgress Establishment
- △ 1,300 - 908 SY TSE Turfgress Sod Establishment

- NOTES:**
1. Refer to E&S Plans for location of tree protection fencing.
 2. See LD-02 for Bridge Railing Panel Schedule.
 3. Use Type A SSM for all channels where flow velocity is less than 5.0 fps or shear stress is 2.0 fps
 4. Use Type A SSM for all Turfgress Establishment areas having slopes greater than 4:1.

LANDSCAPE LEGEND

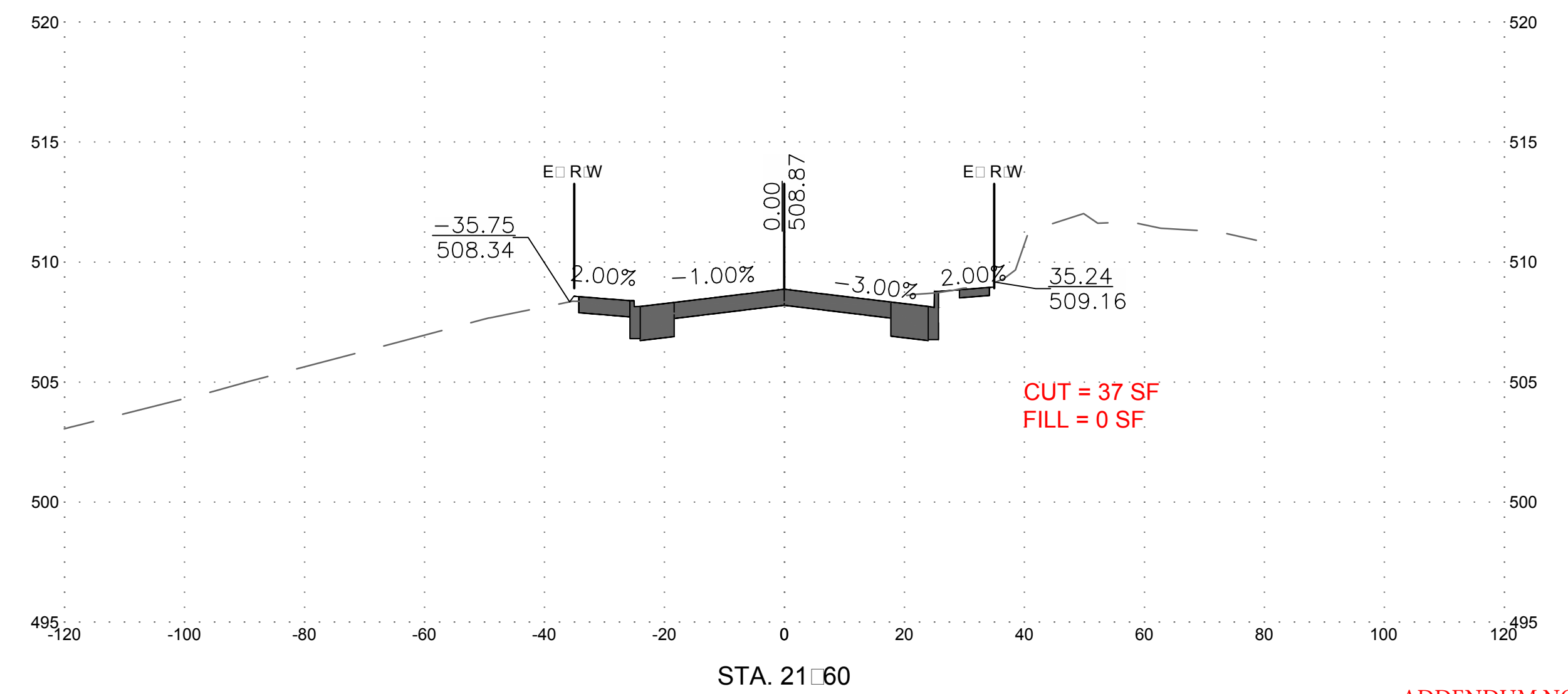
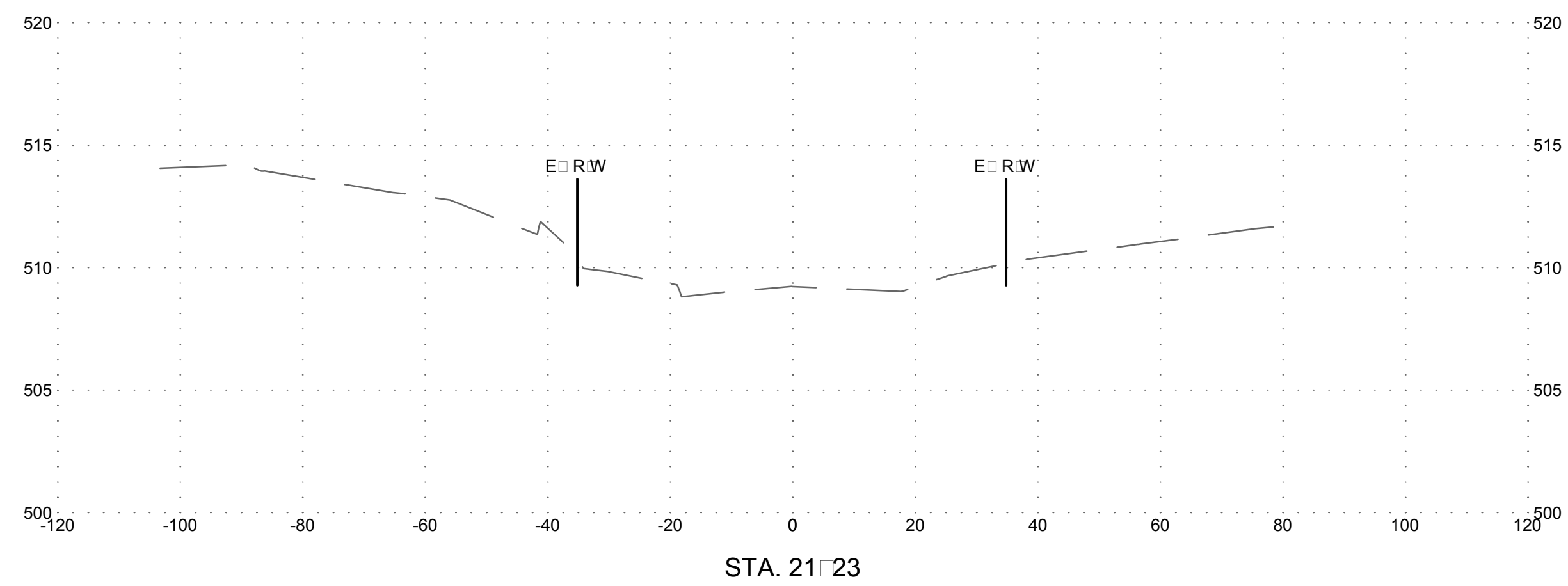
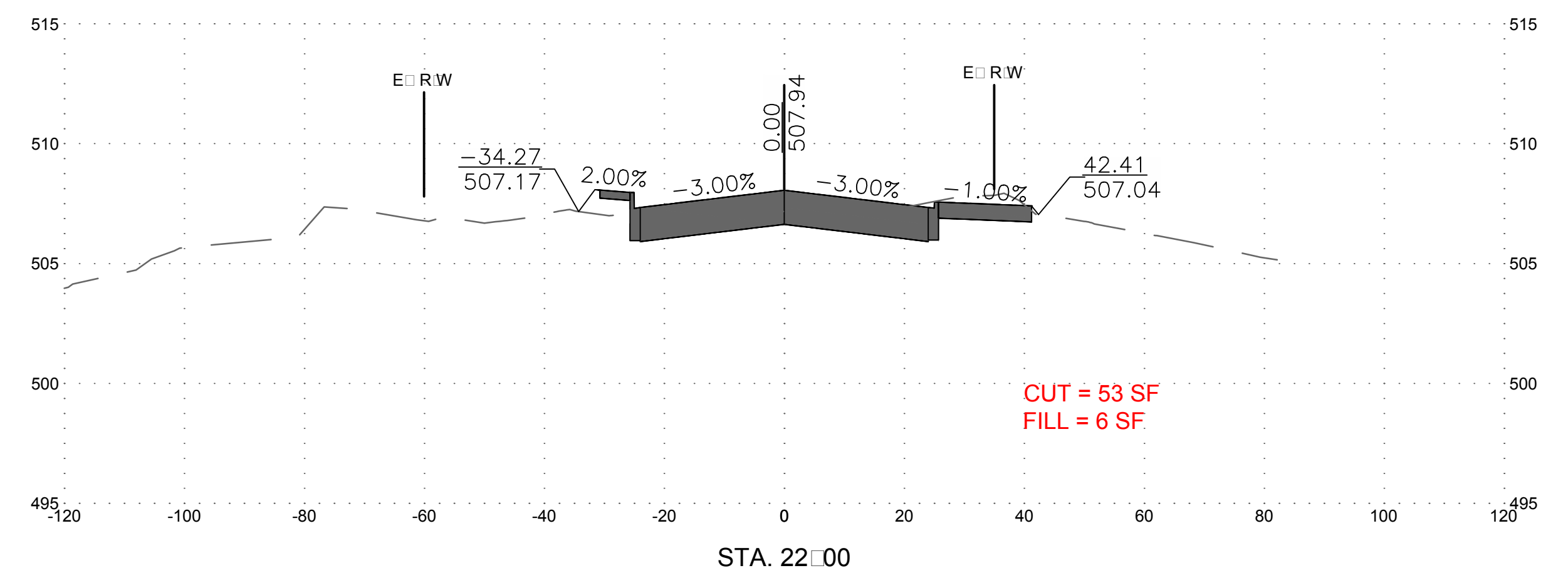
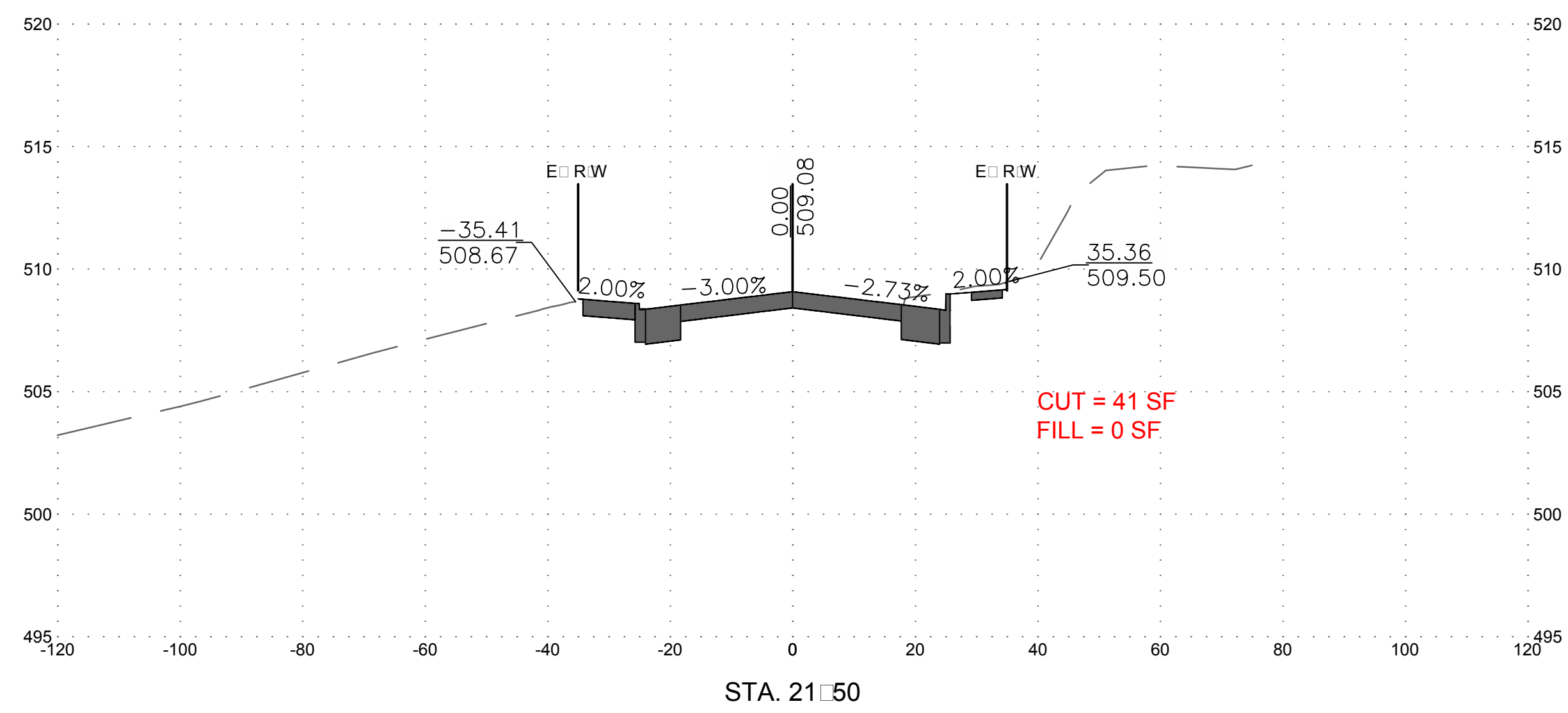
— LOD —	LIMIT OF DISTURBANCE (LOD)
- - -	LANDSCAPE LIMIT OF DISTURBANCE (LLOD)
(Tree symbol)	EXISTING TREE TO REMAIN
(Tree with X symbol)	EXISTING TREE TO BE REMOVED
(Hatched box)	TURFGRESS ESTABLISHMENT (TE)
(Dotted box)	TEMPORARY TURFGRESS ESTABLISHMENT (TTE)
(Cross-hatched box)	TURFGRESS SOD ESTABLISHMENT (TSE)



ADDENDUM NO. 3
ATTACHMENT C
Sheet 22 of 37
LD-01

MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

	BY	MAB	DATE
	REVISION DESCRIPTION		
NO.	△ Turfgress Quantity Change		
DESIGNED BY:	AS / FL	CHECKED BY:	JKS
DRAWN BY:	AS / FL	DATE:	APRIL 2019
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			
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK LANDSCAPE PLAN			
SCALE		1"=20'	
SHEET NO.		105 OF 145	
PROJECT NO.		10-244	



ADDENDUM NO. 3
ATTACHMENT C
Sheet 23 of 37

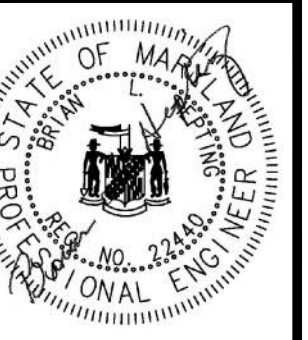
NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

DESIGNED BY: TMB
DRAWN BY: TMB
CHECKED BY:
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
80 W. Main Street, P.O. Box 240
Phone: 240-313-2460 Fax: 240-313-2401

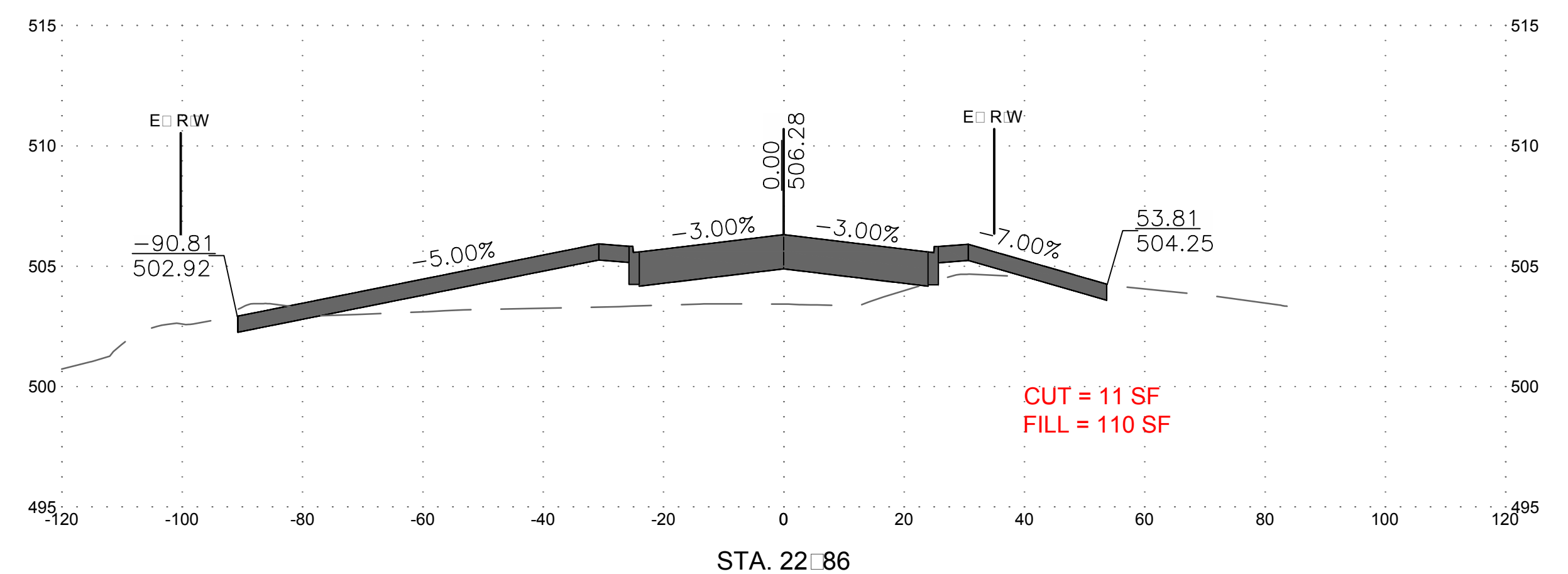
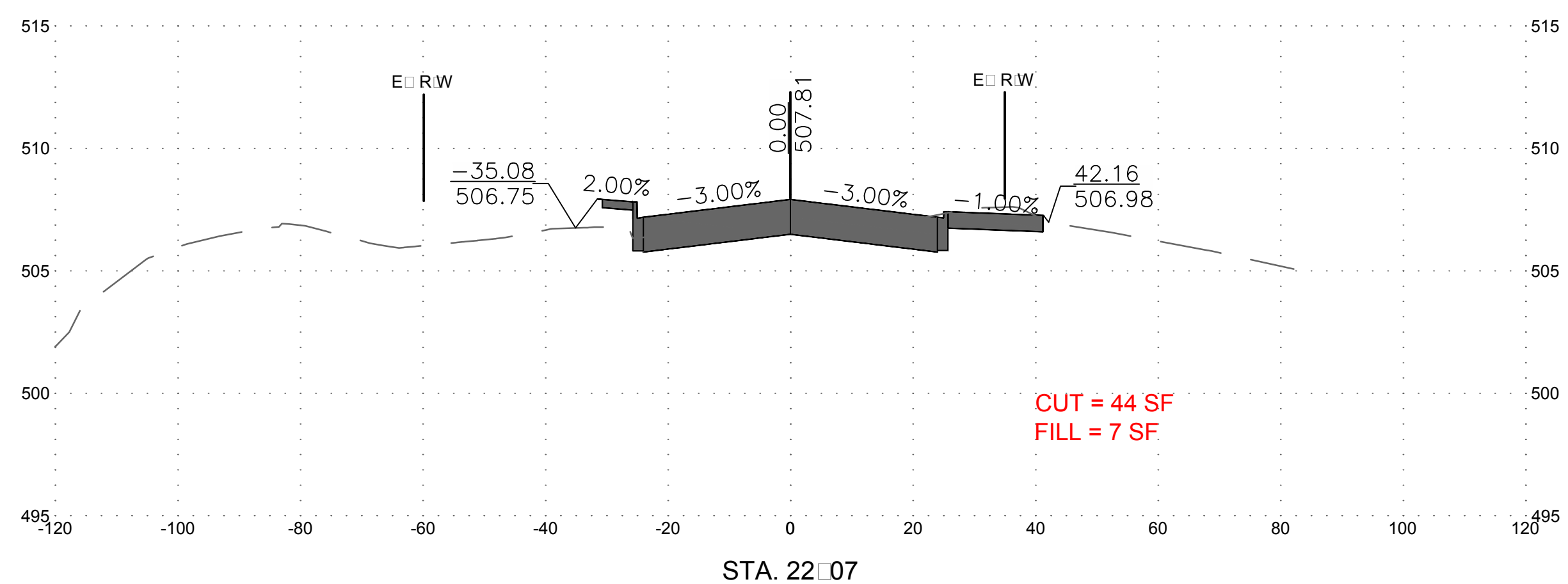
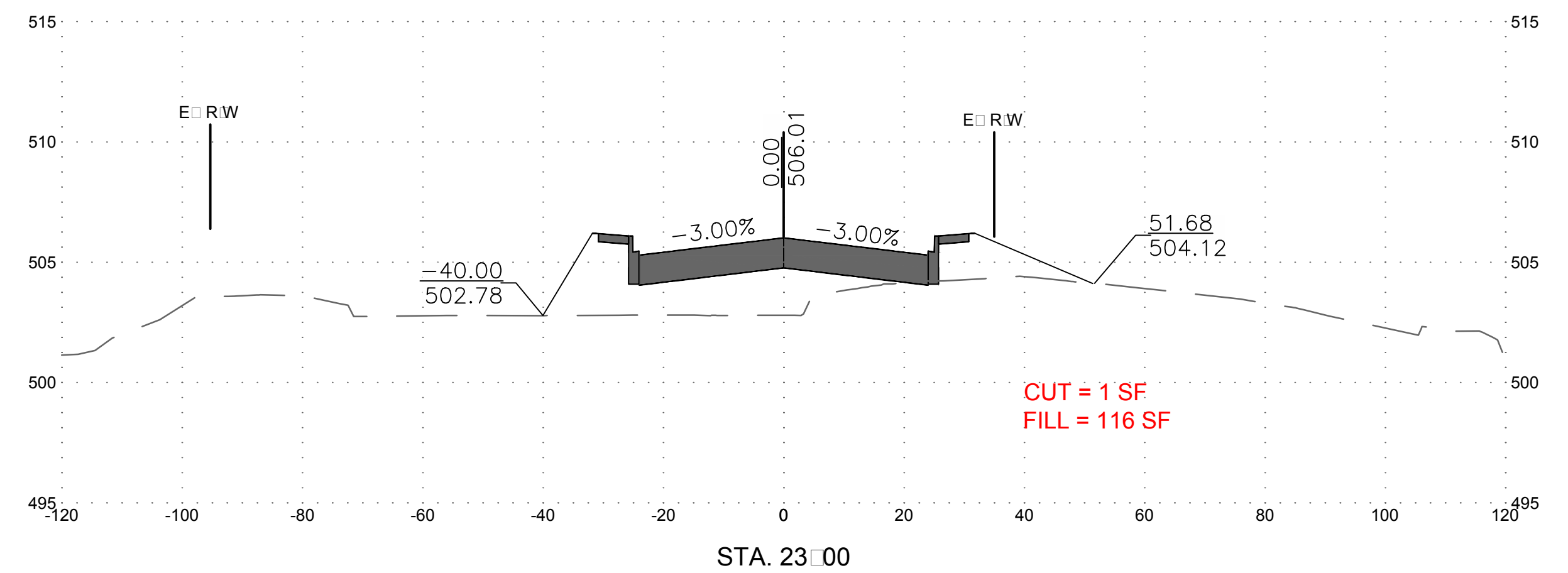
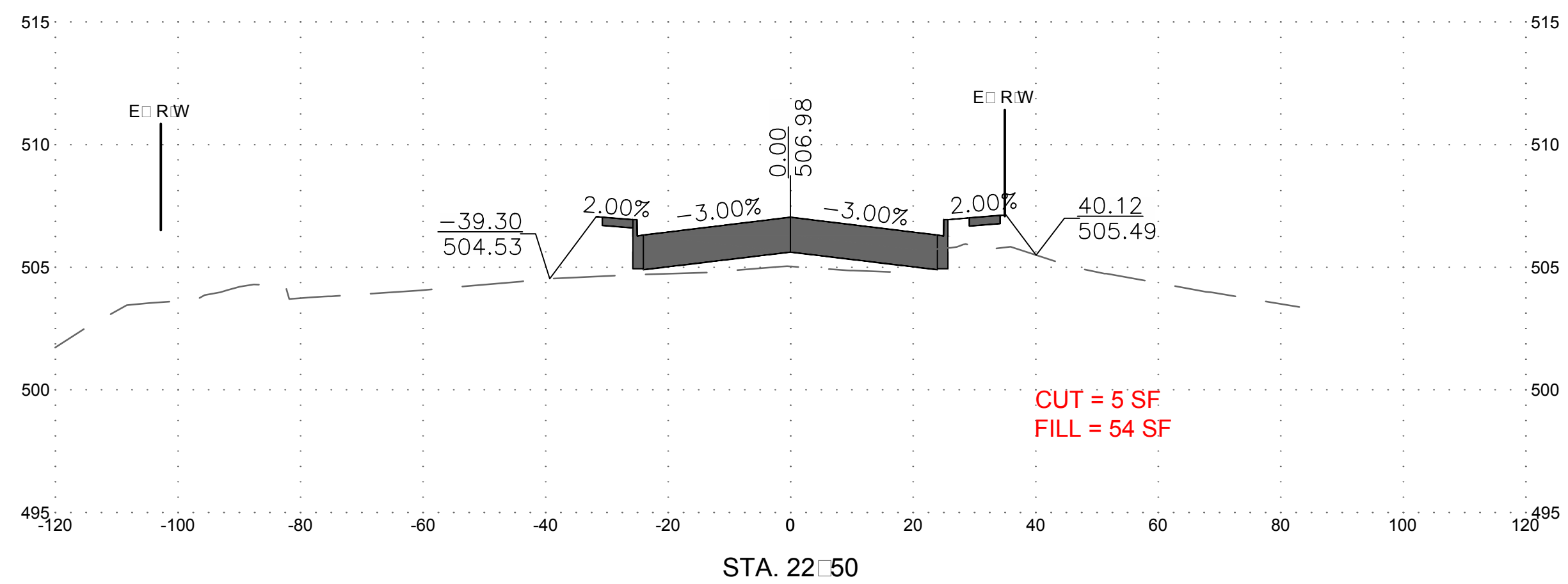
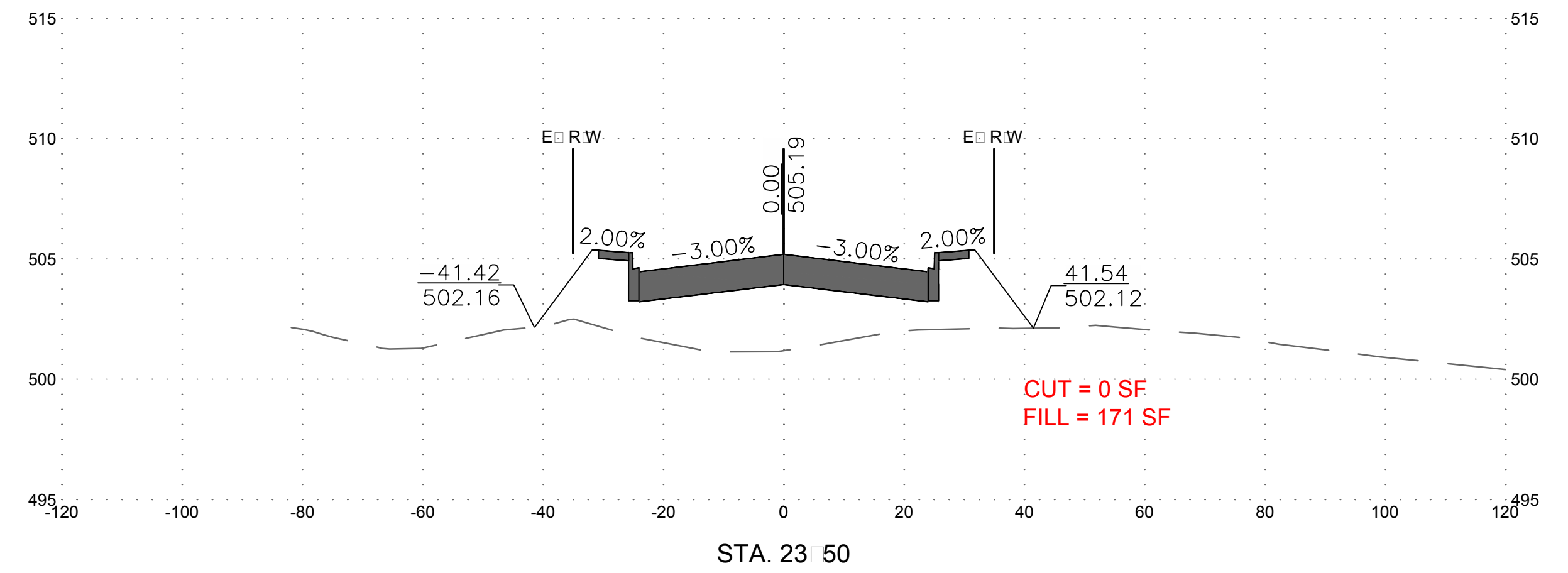
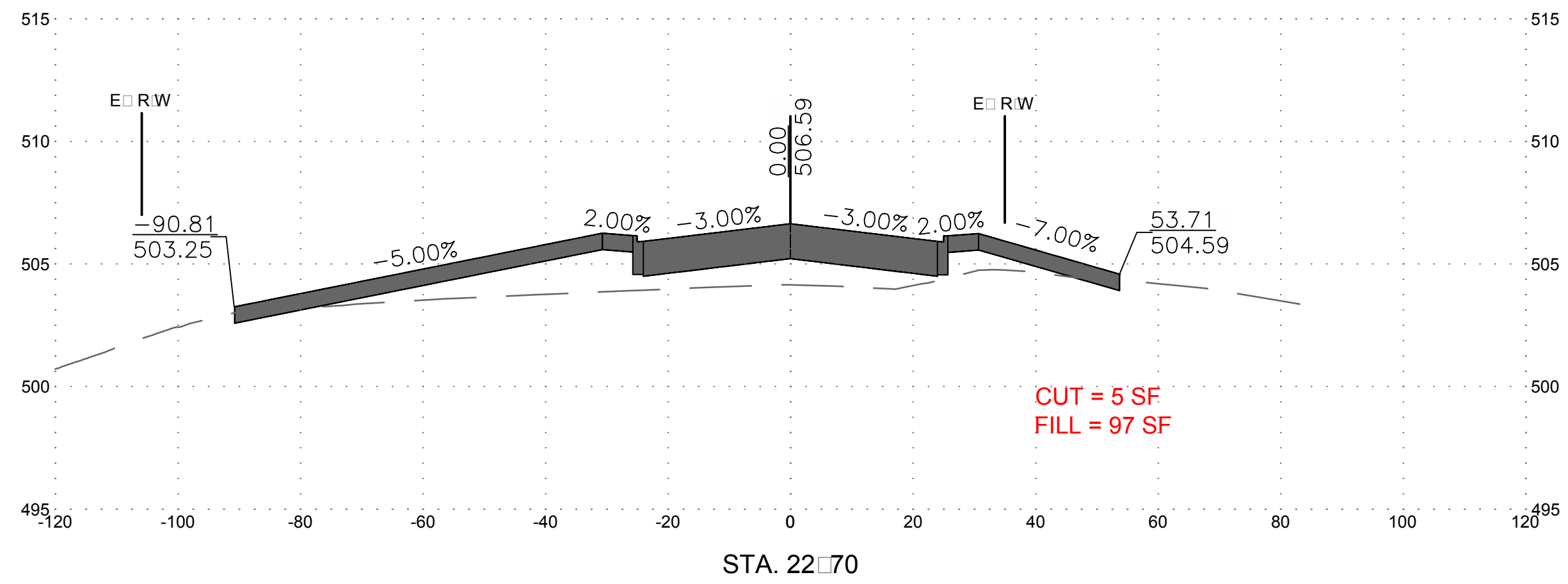
PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK
CROSS SECTIONS



SCALE
H:1"=20' V:1"=5'

SHEET NO.
131 OF 145

PROJECT NO.
10-244



ADDENDUM NO. 3
ATTACHMENT C
Sheet 24 of 37

NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

DESIGNED BY: TMB
DRAWN BY: TMB
CHECKED BY: TMB
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
80 W. Main Street, P.O. Box 174
Phone: 240-313-2460 Fax: 240-313-2401

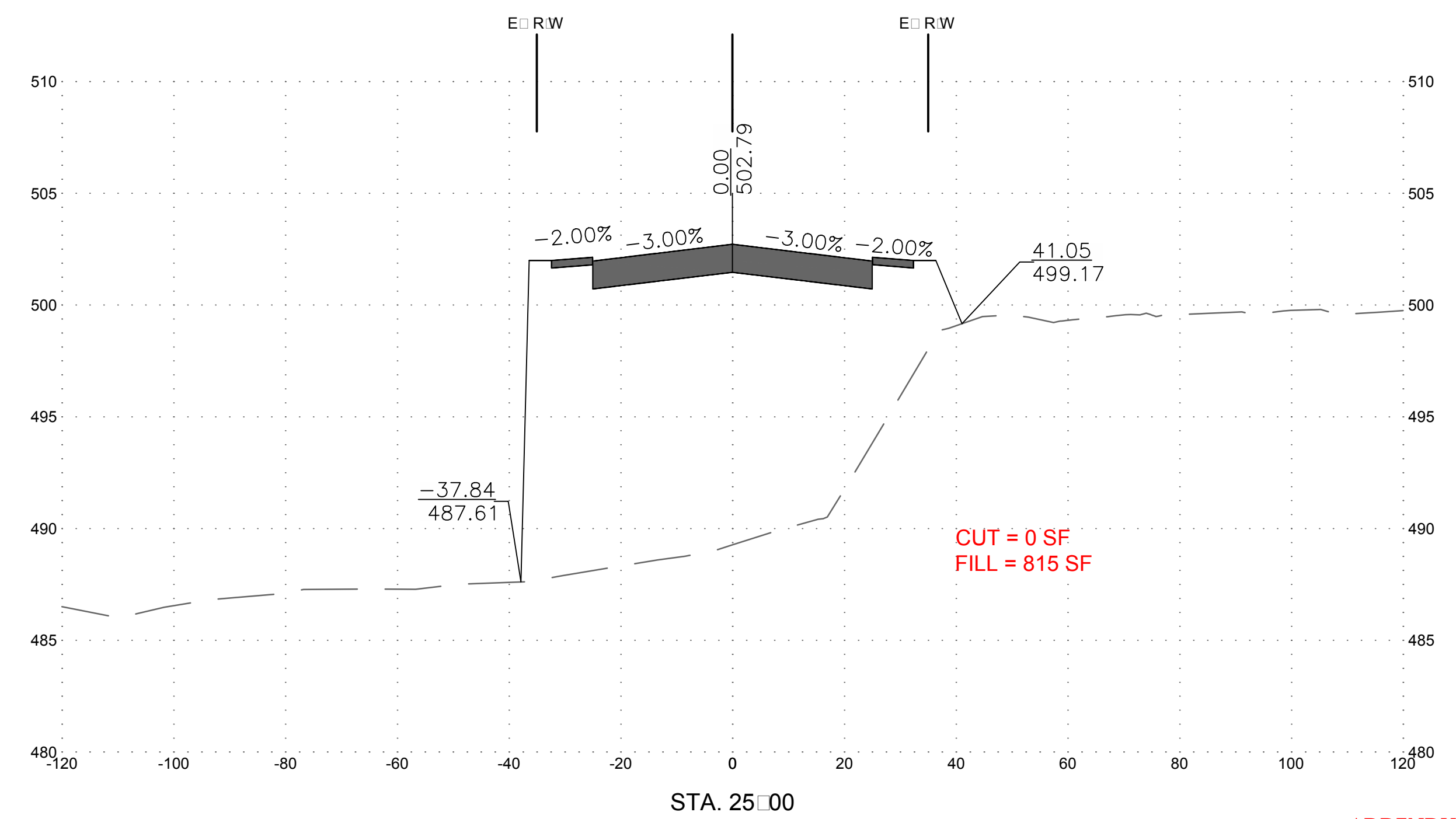
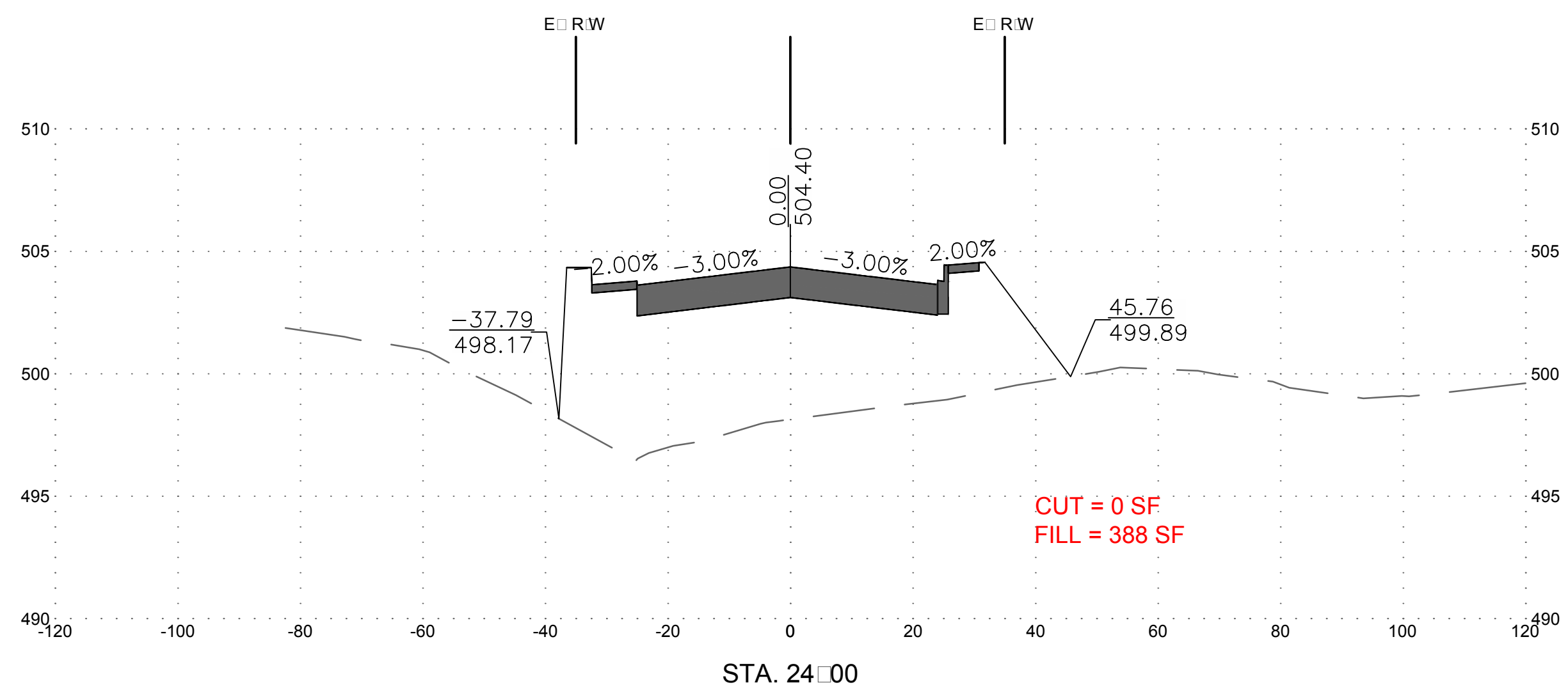
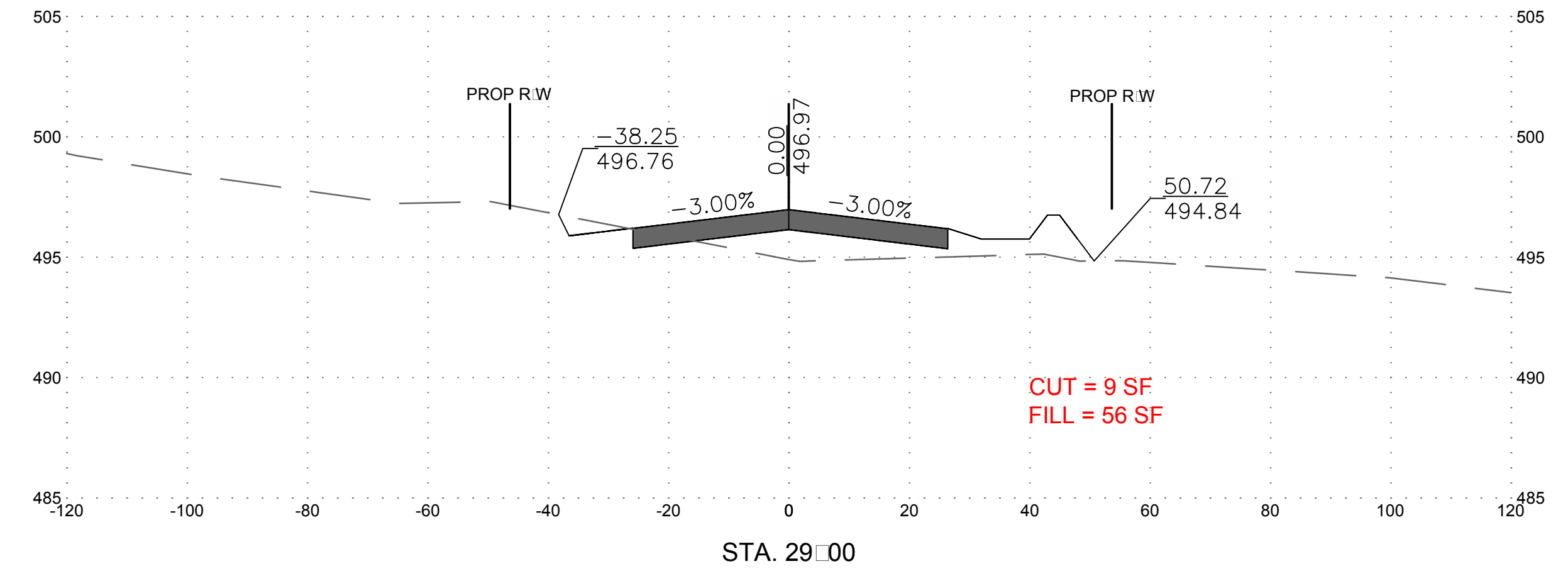
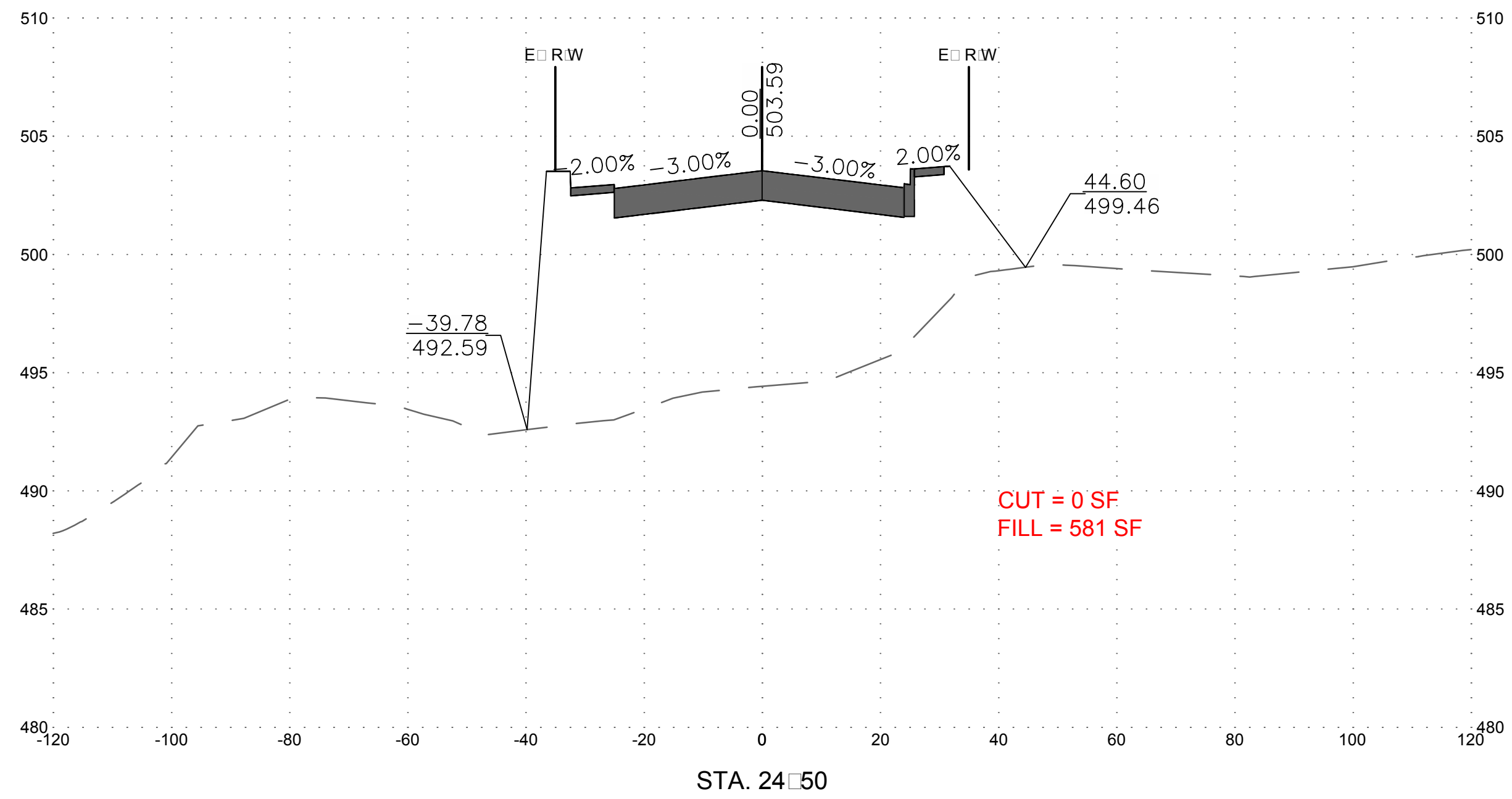
PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK

CROSS SECTIONS

SCALE
H:1"=20' V:1"=5'

SHEET NO.
132 OF 145

PROJECT NO.
10-244



ADDENDUM NO. 3
ATTACHMENT C
Sheet 25 of 37

NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

DESIGNED BY: TMB
DRAWN BY: TMB
CHECKED BY:
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
800 W. Main Street, Suite 400
Phone: 240-313-2460 Fax: 240-313-2401

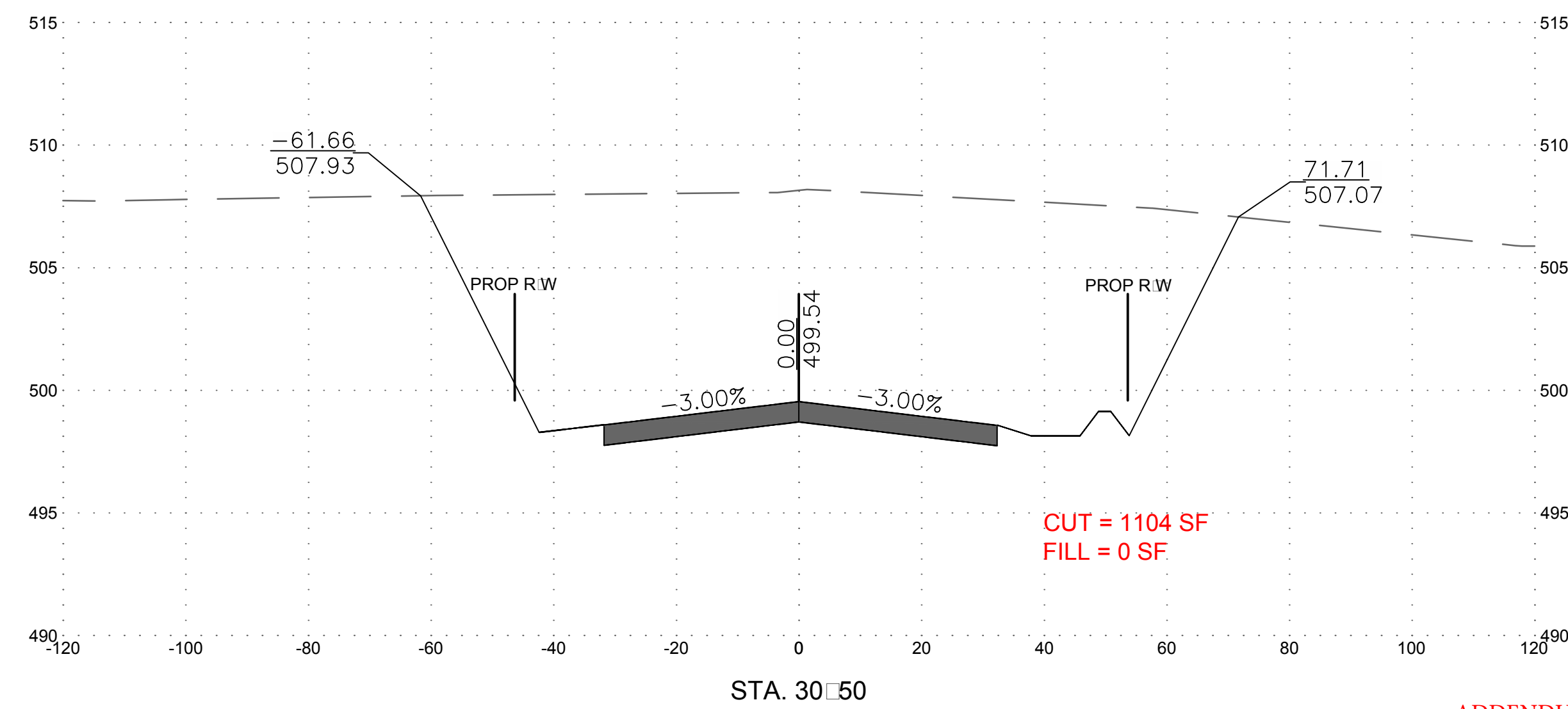
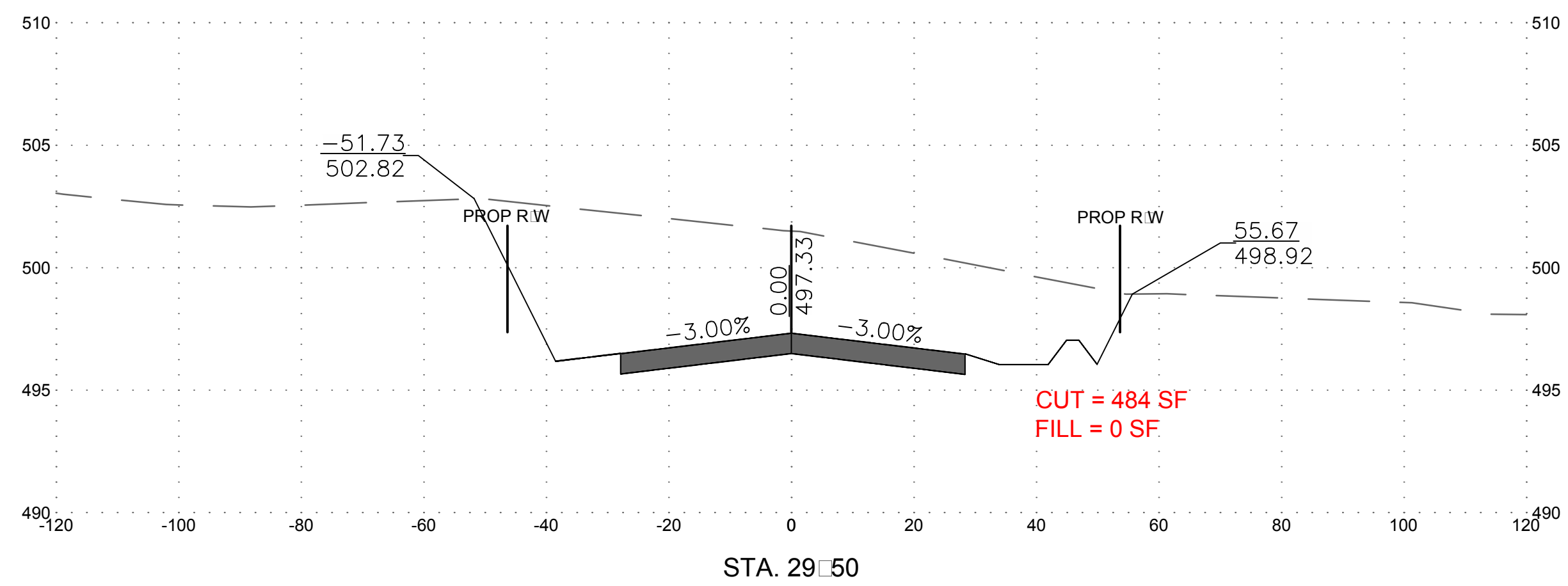
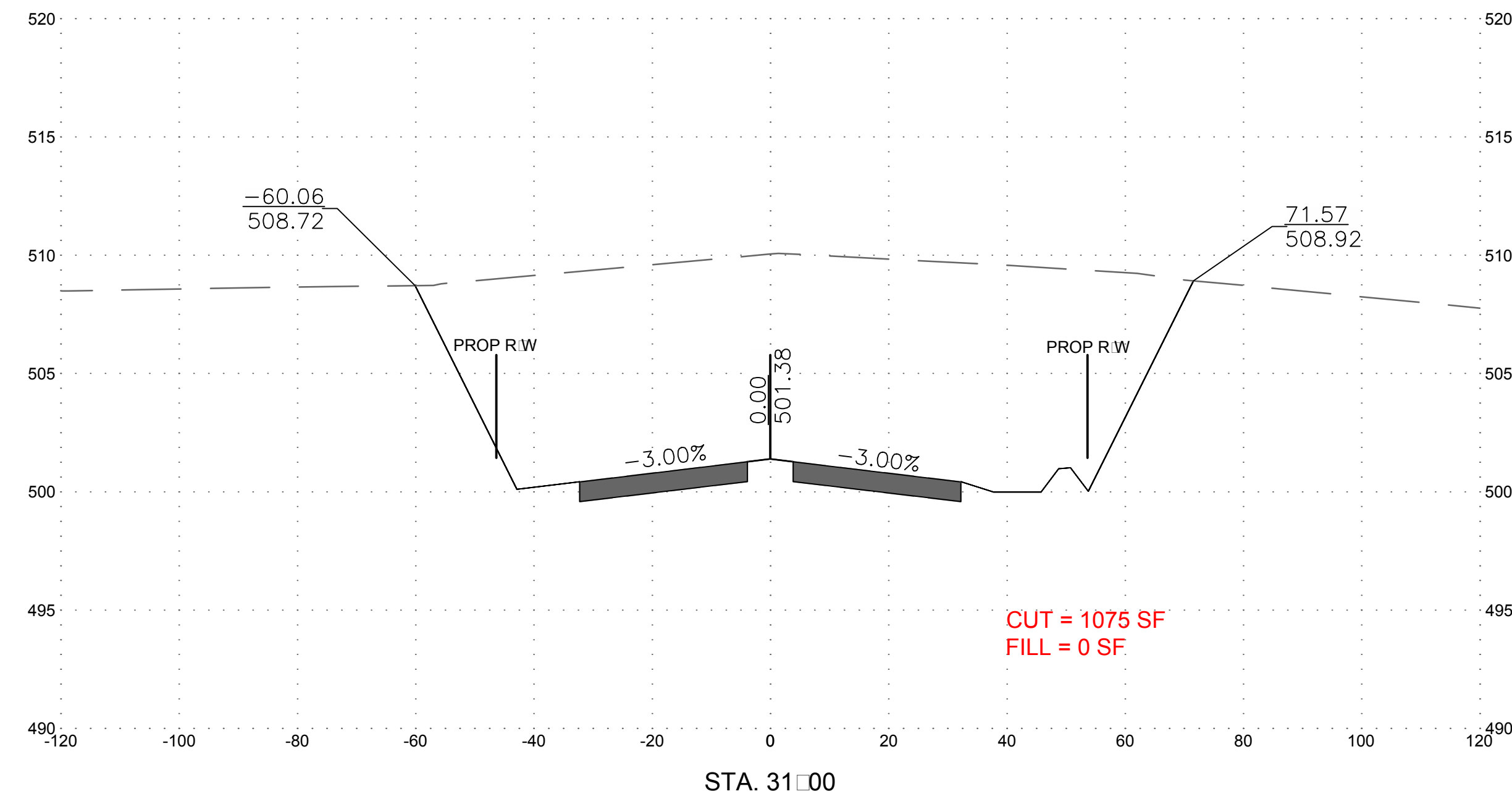
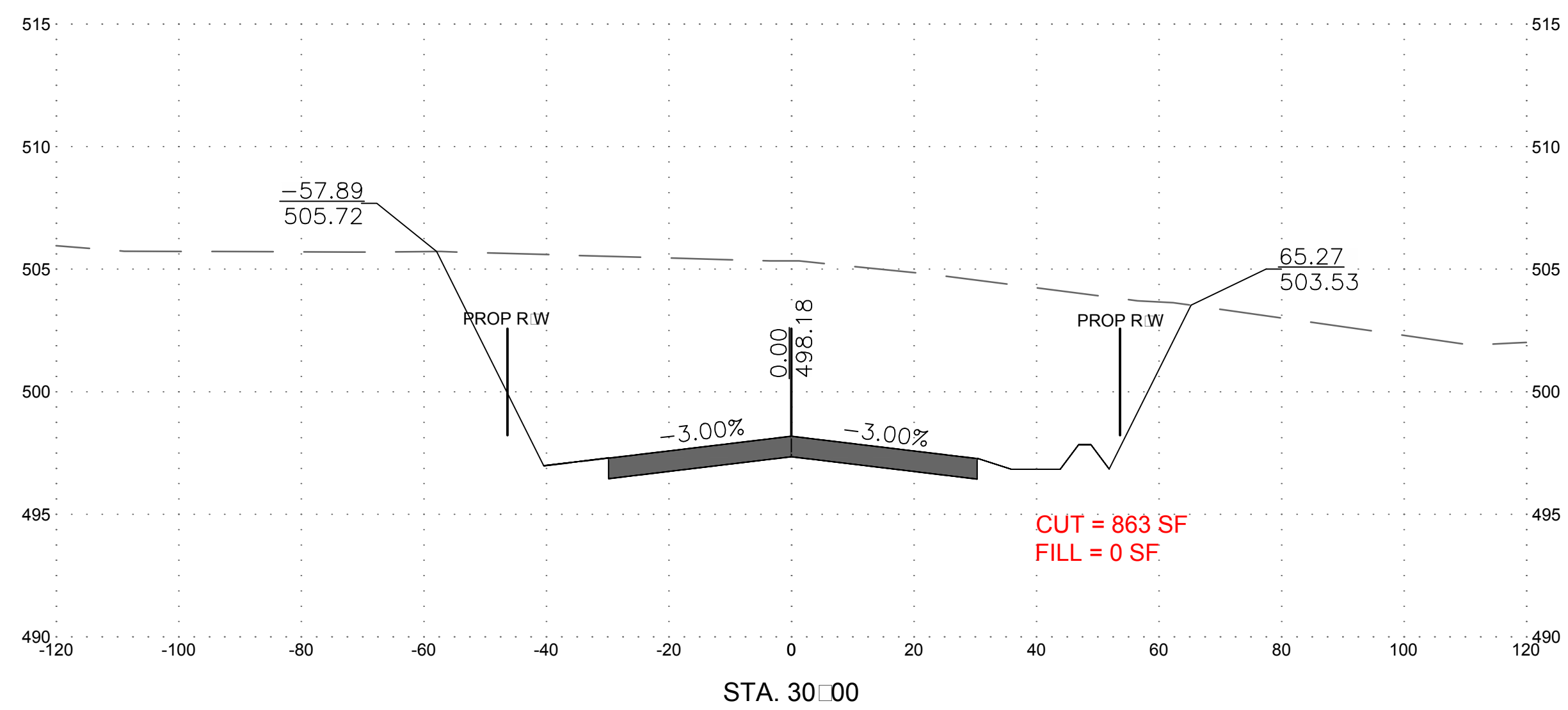
PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK

CROSS SECTIONS


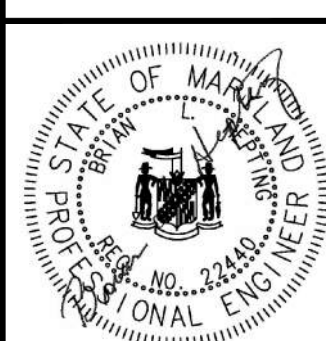
SCALE
H:1"=20' V:1"=5'

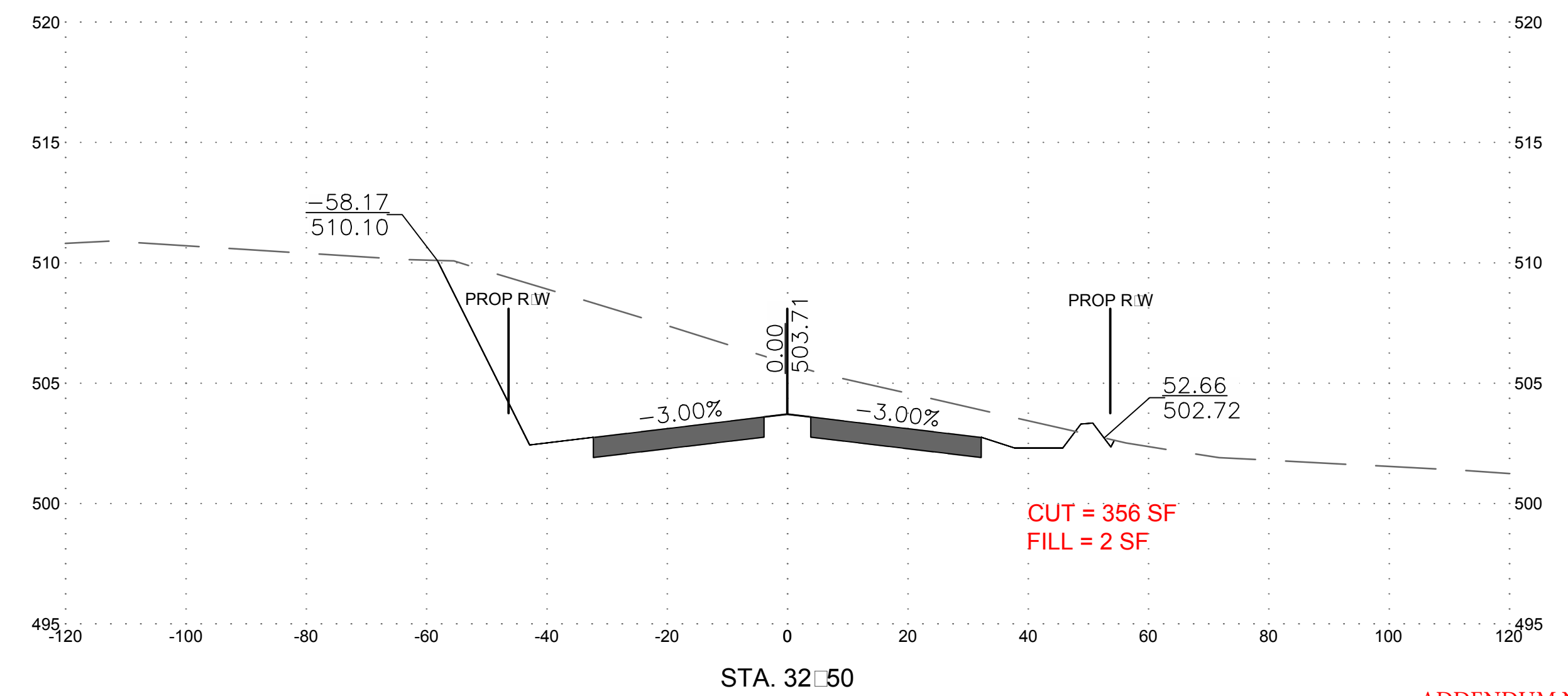
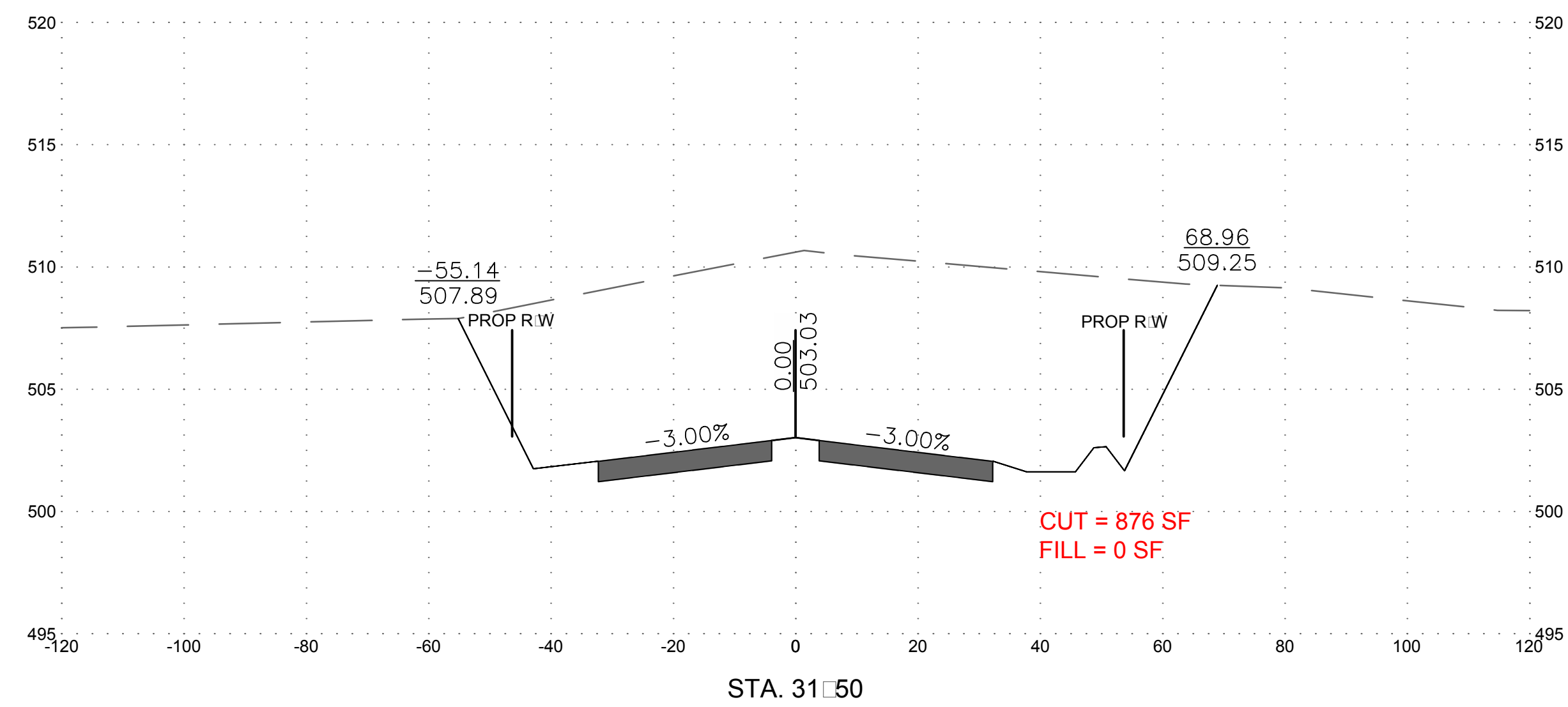
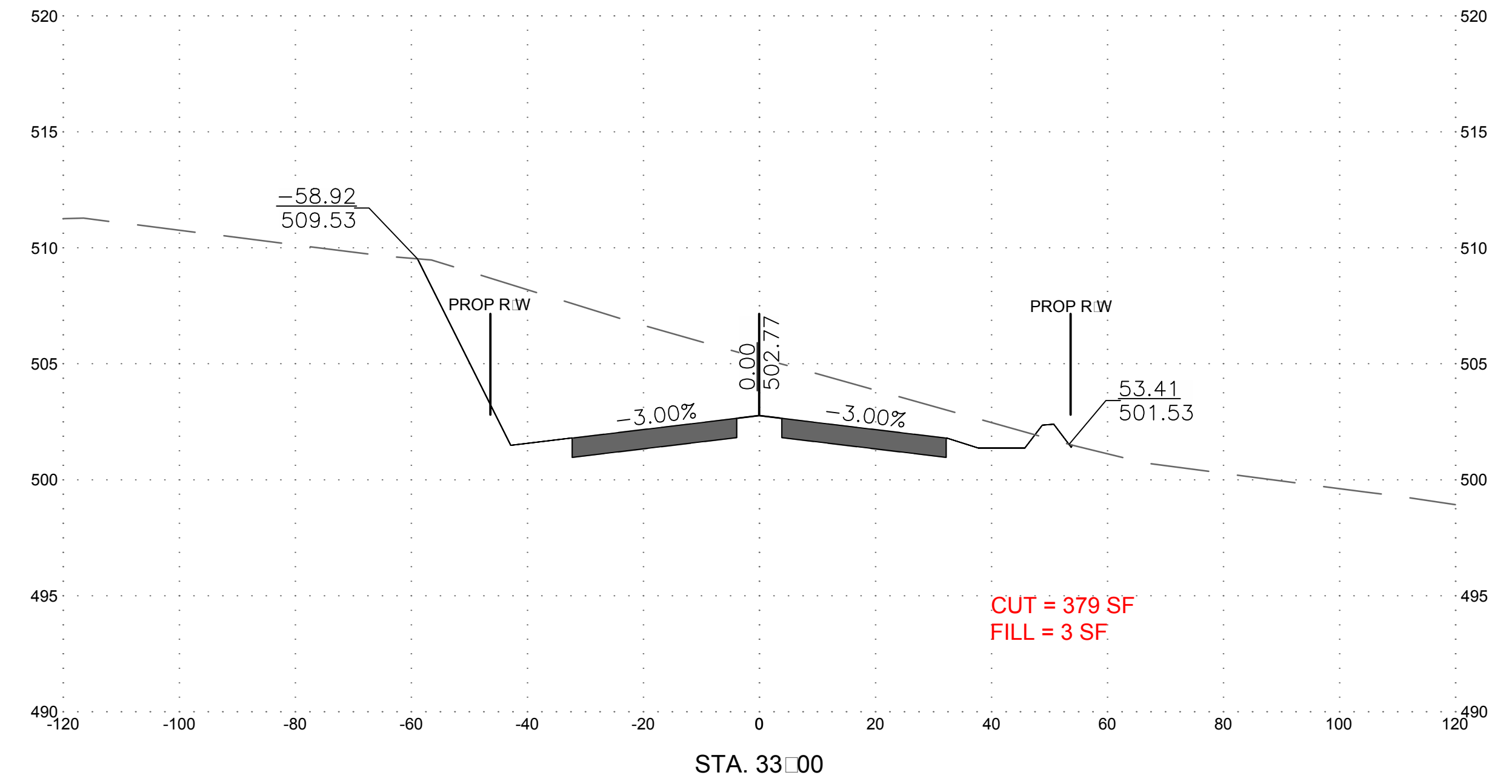
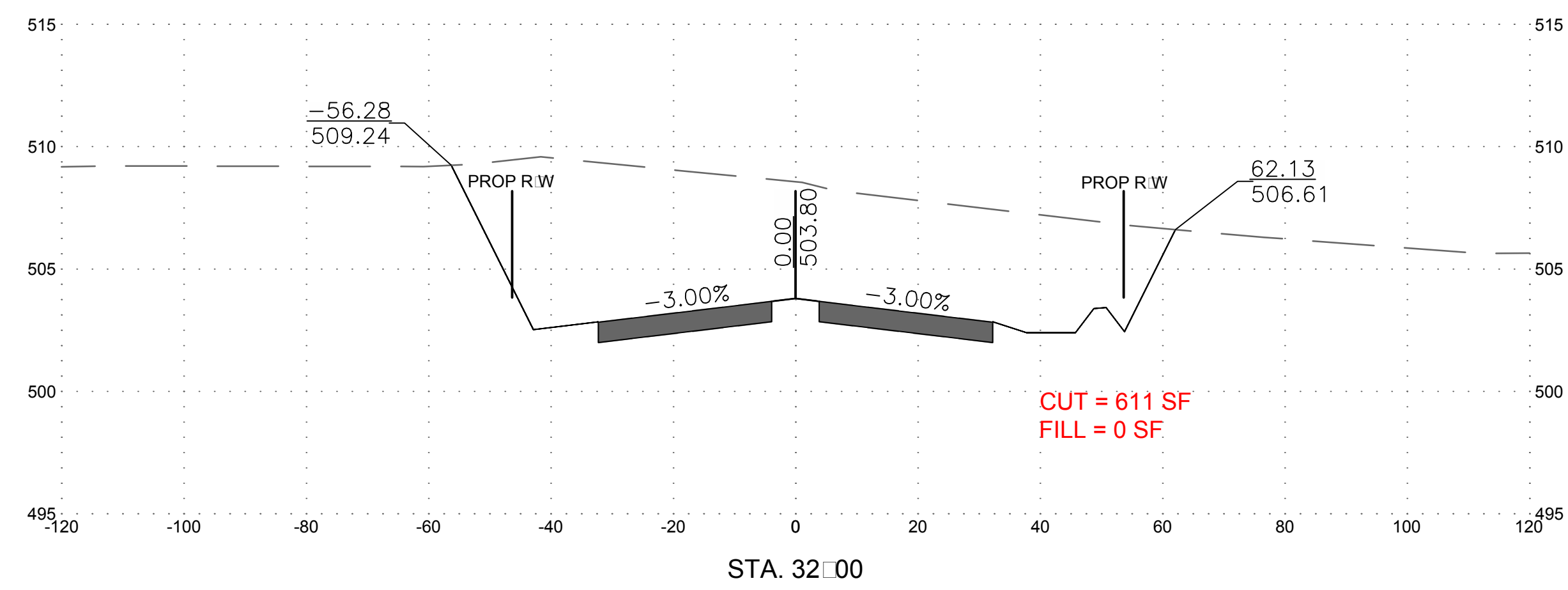
SHEET NO.
133 OF 145

PROJECT NO.
10-244



ADDENDUM NO. 3
ATTACHMENT C
Sheet 26 of 37

NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	
DESIGNED BY:	TMB	CHECKED BY:	TMB
DRAWN BY:	TMB	DATE:	APRIL 2019
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING  Washington County Administrative Annex, Building 80 W. Main Street, P.O. Box 2440 Phone: 240-313-2460 Fax: 240-313-2401			
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK CROSS SECTIONS			
 STATE OF MARYLAND PROFESSIONAL ENGINEER License No. 22440			
SCALE			
H:1"=20' V:1"=5'			
SHEET NO.			
134 OF 145			
PROJECT NO.			
10-244			



ADDENDUM NO. 3
ATTACHMENT C
Sheet 27 of 37

NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

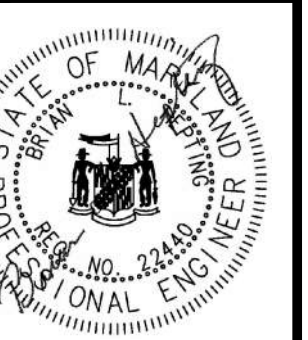
DESIGNED BY: TMB
DRAWN BY: TMB
CHECKED BY: TMB
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
8019 Highway 240
Phone: 240-313-2460 Fax: 240-313-2401

PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK

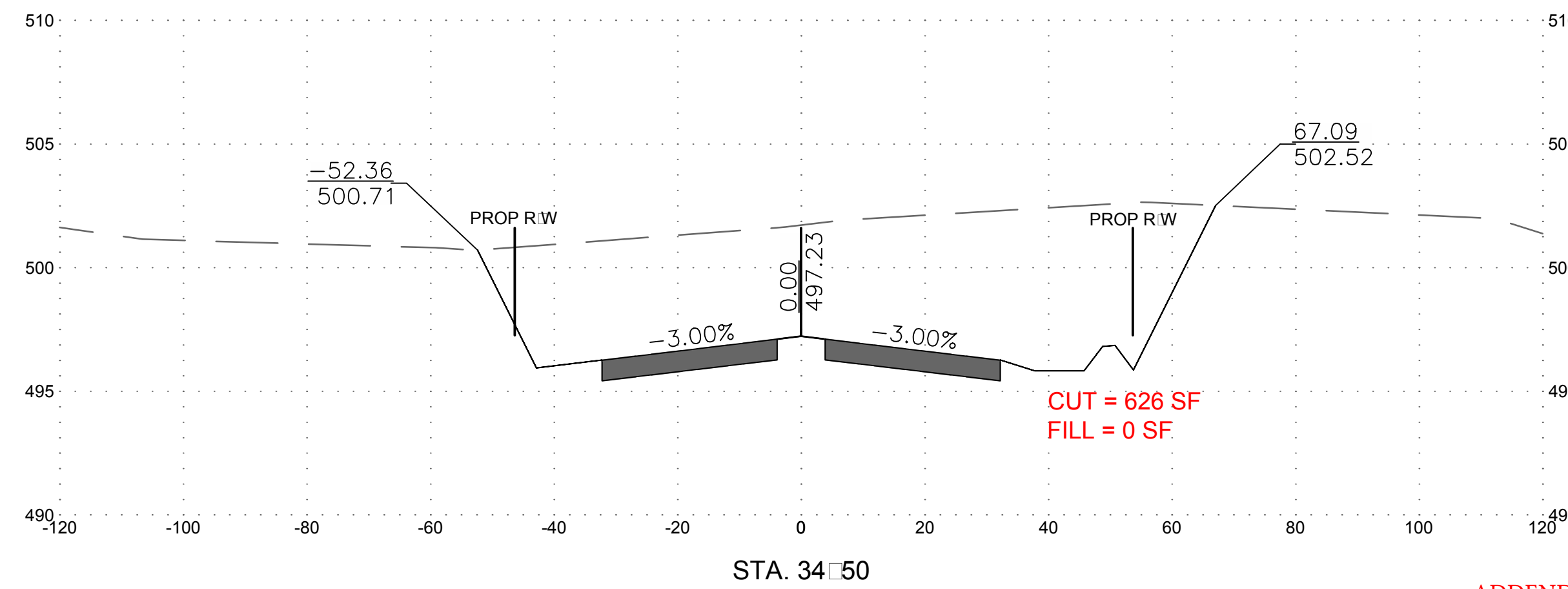
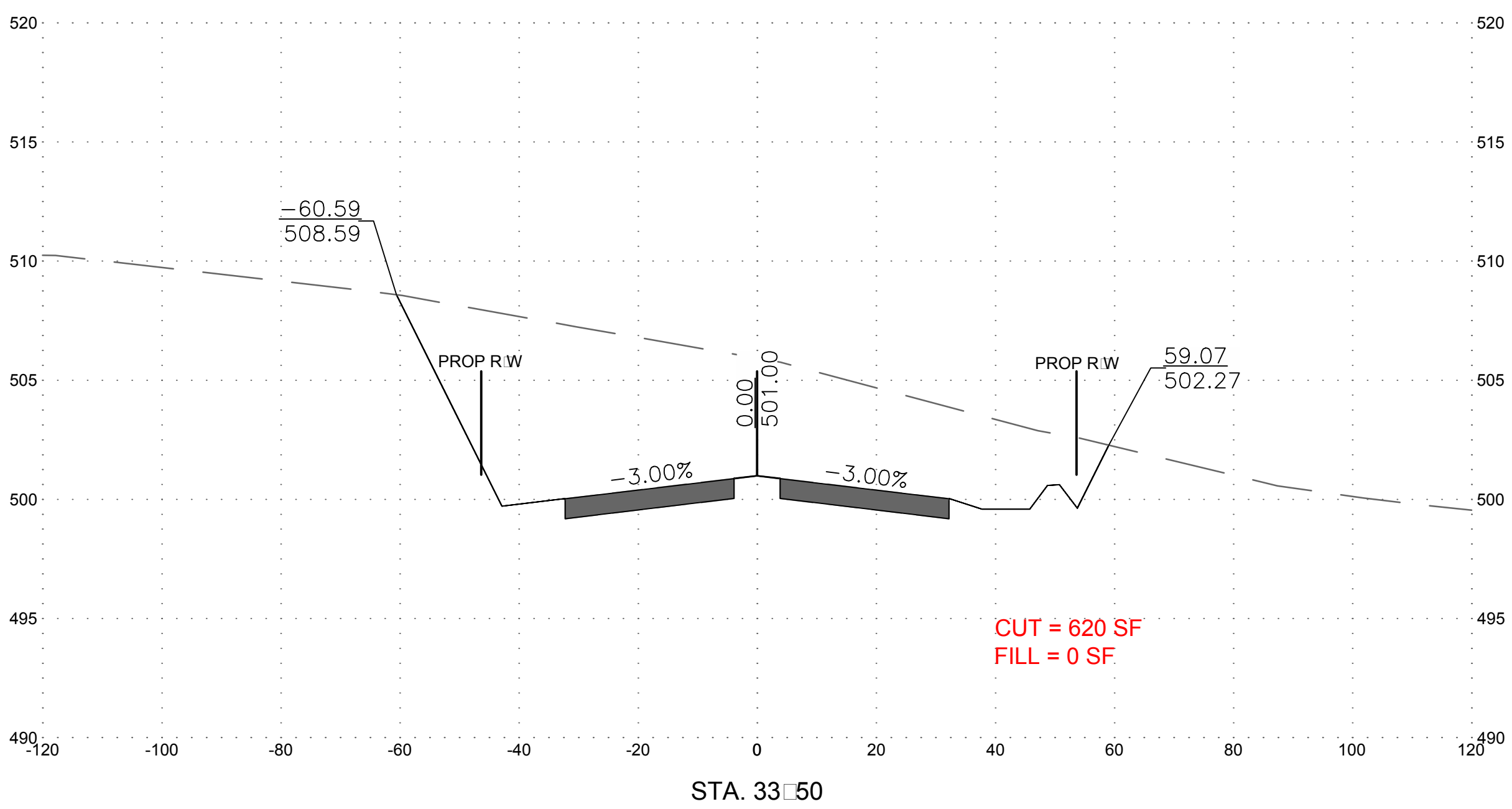
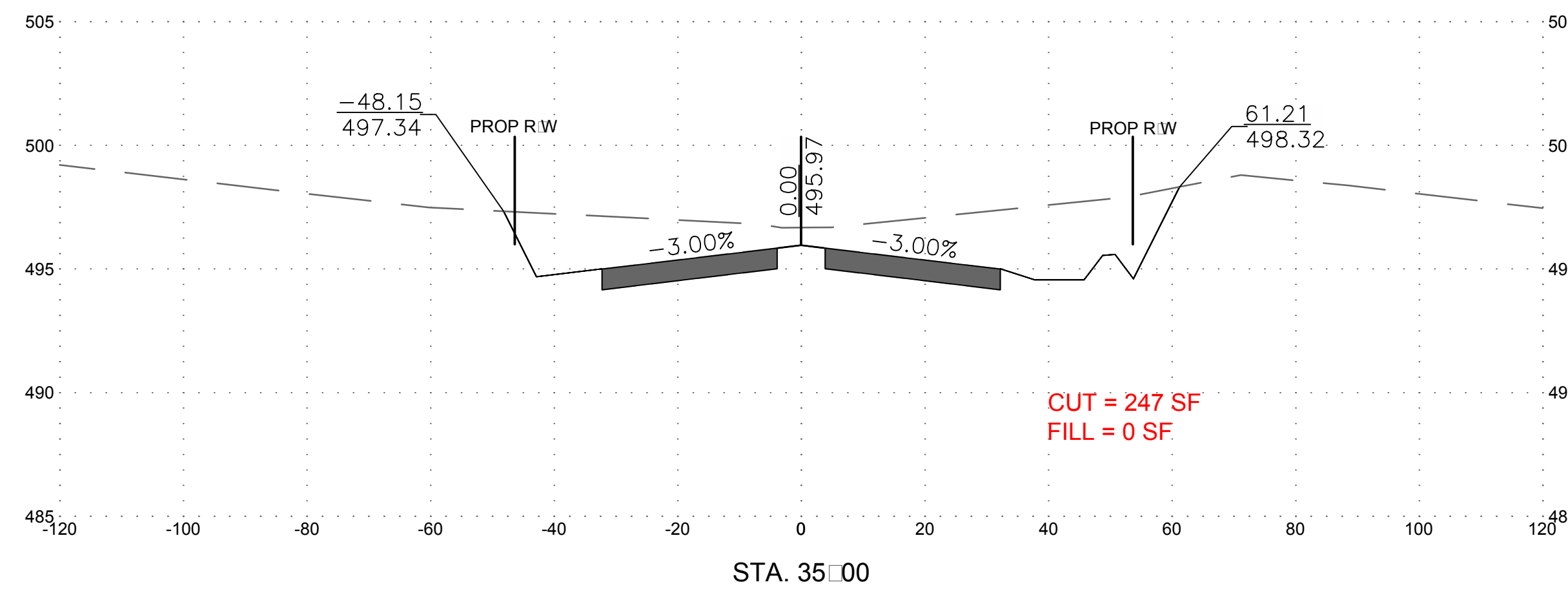
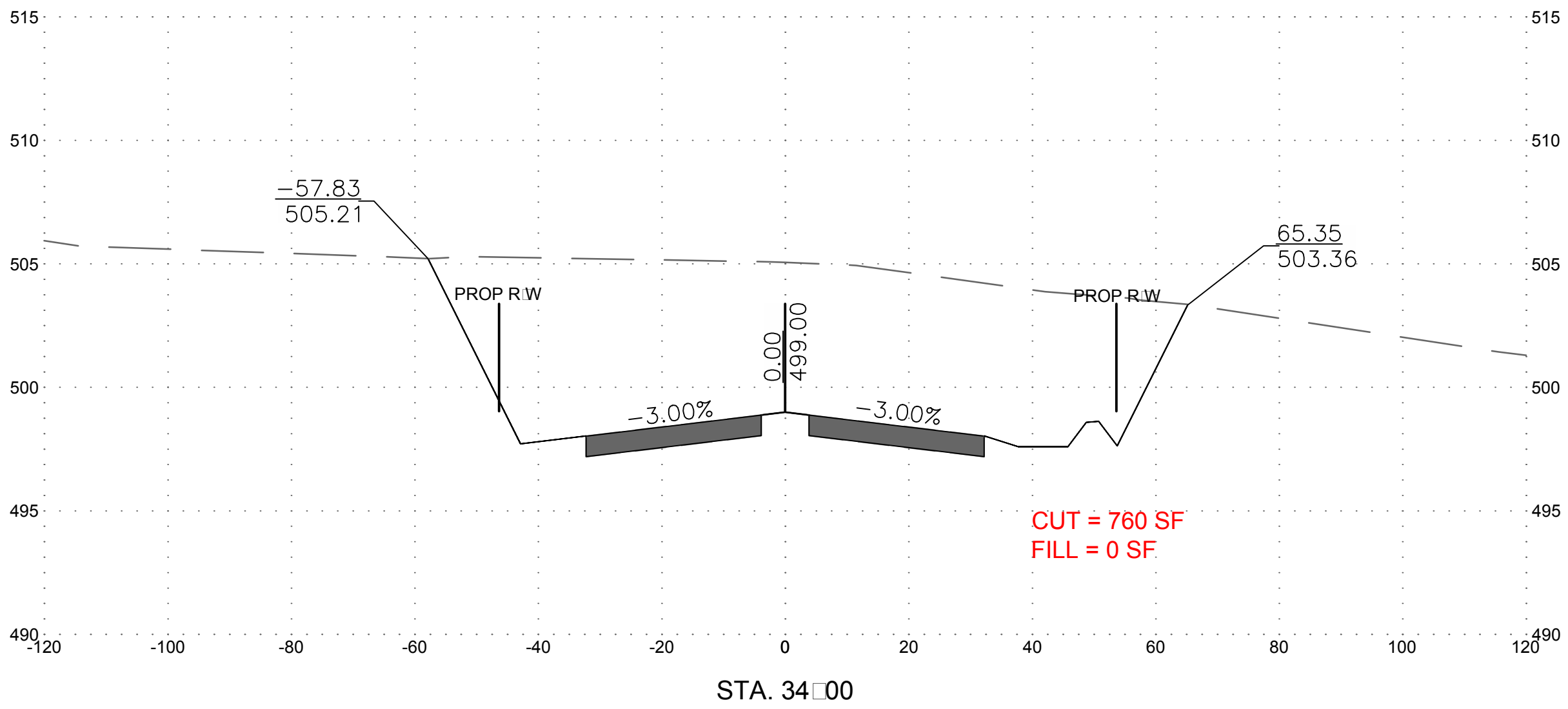
CROSS SECTIONS



SCALE
H:1"=20' V:1"=5'

SHEET NO.
135 OF 145

PROJECT NO.
10-244



NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

DESIGNED BY: TMB
 DRAWN BY: TMB
 CHECKED BY: TMB
 DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
 80 W. Main Street, P.O. Box 40
 Phone: 240-313-2460 Fax: 240-313-2401

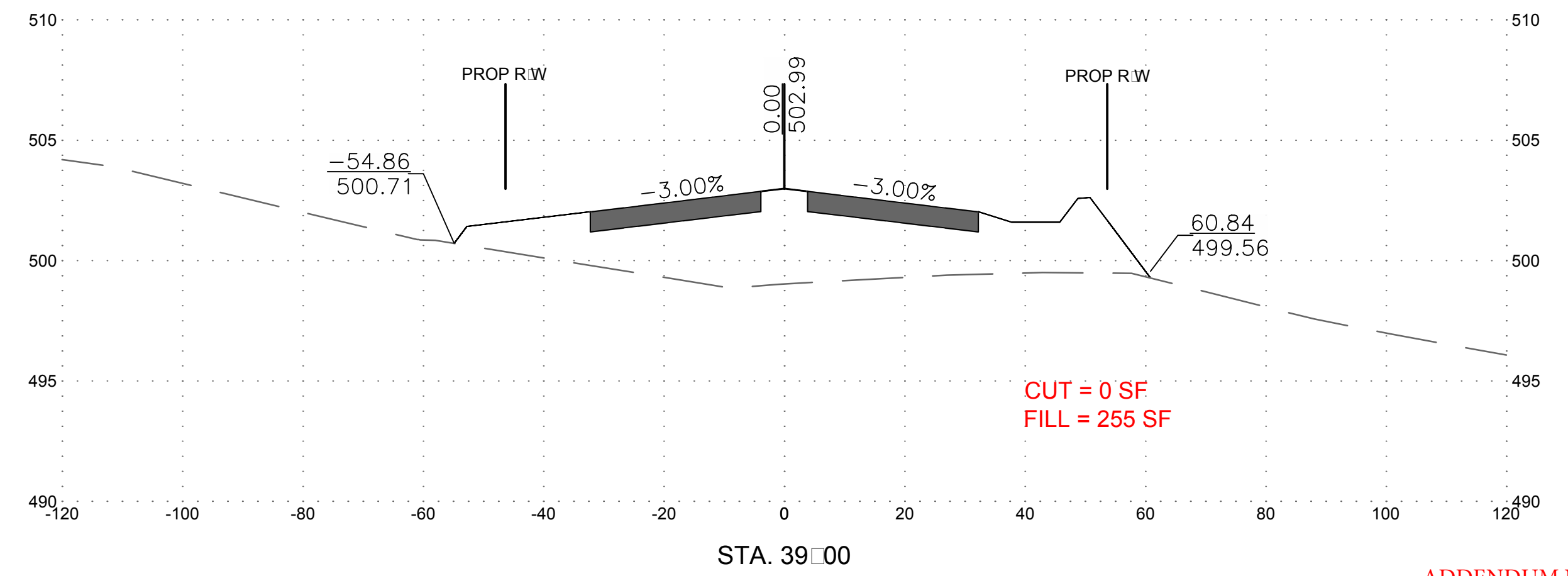
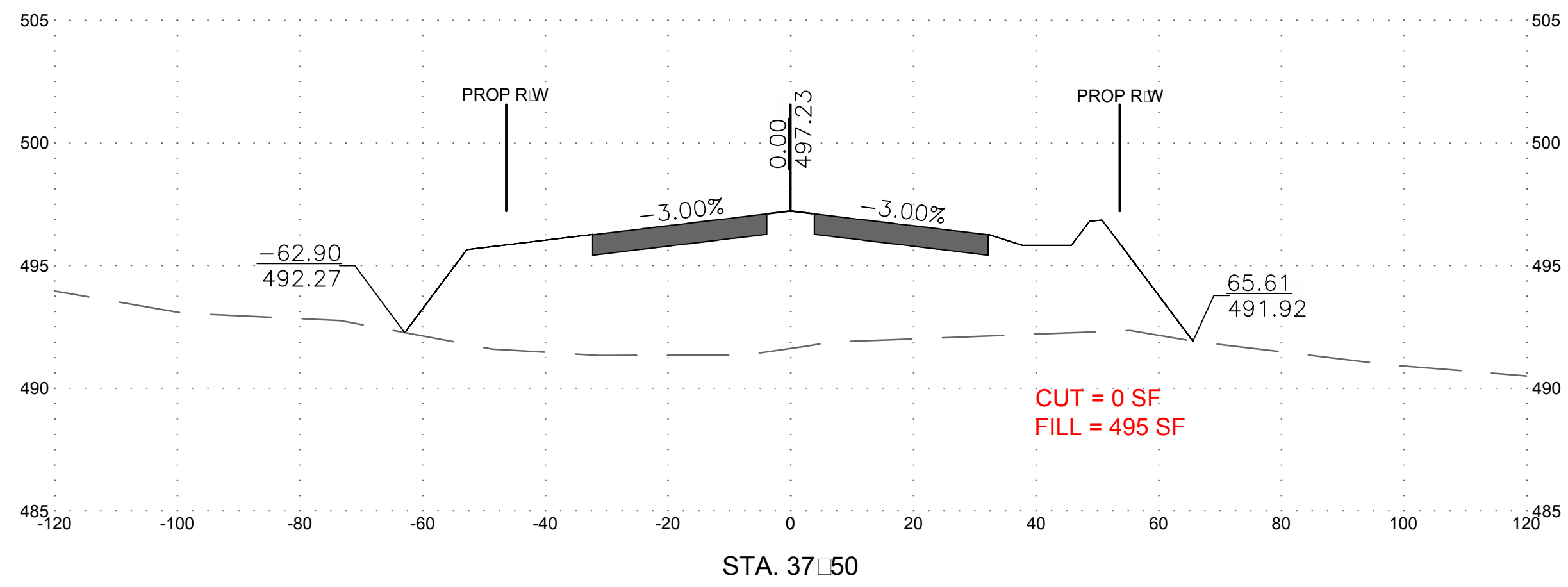
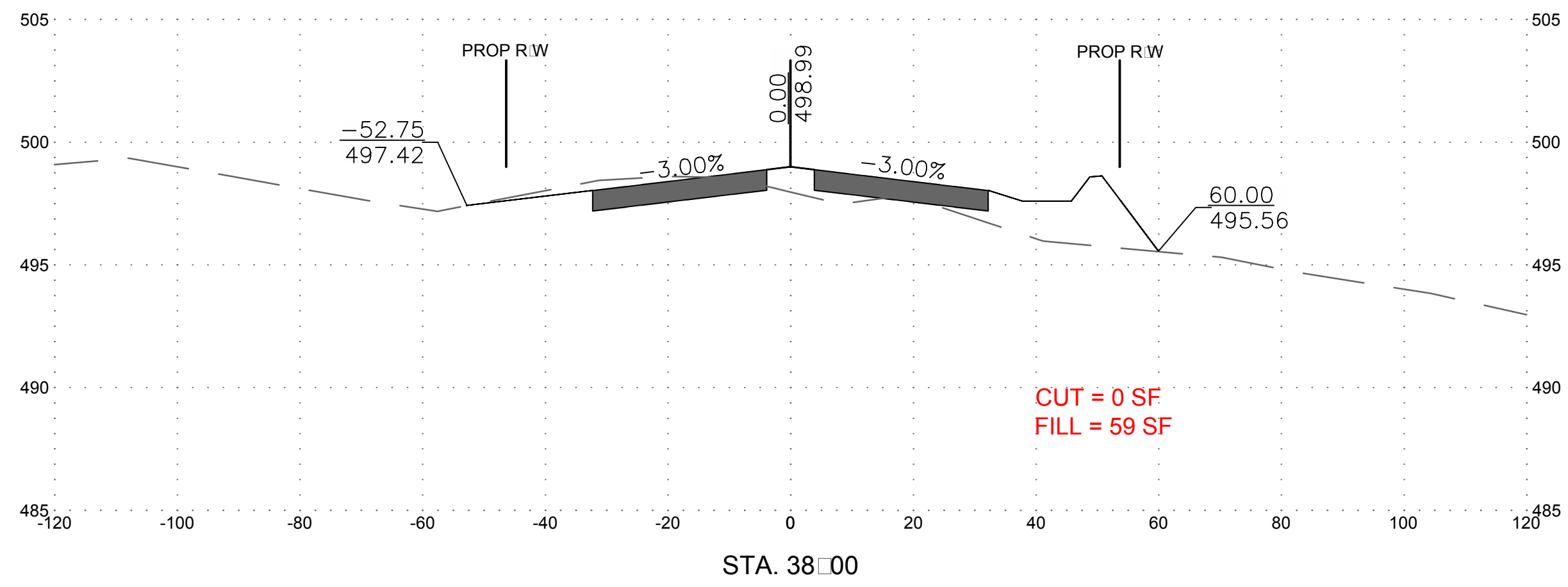
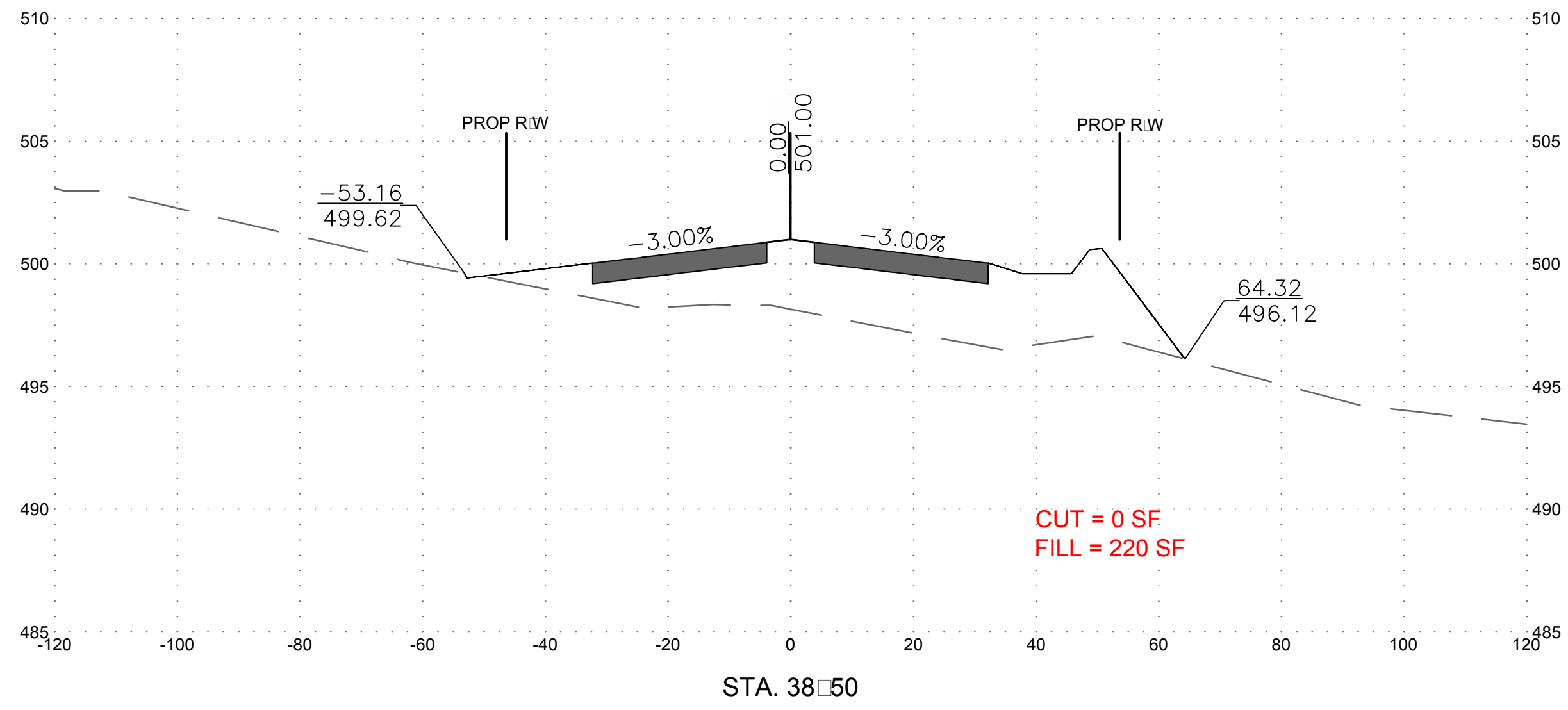
PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK

CROSS SECTIONS

SCALE
 H:1"=20' V:1"=5'

SHEET NO.
 136 OF 145

PROJECT NO.
 10-244



ADDENDUM NO. 3
ATTACHMENT C
Sheet 30 of 37

NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

DESIGNED BY: TMB
DRAWN BY: TMB
CHECKED BY:
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex - Building
80 W. Main Street, P.O. Box 1740
Phone: 240-313-2460 Fax: 240-313-2401

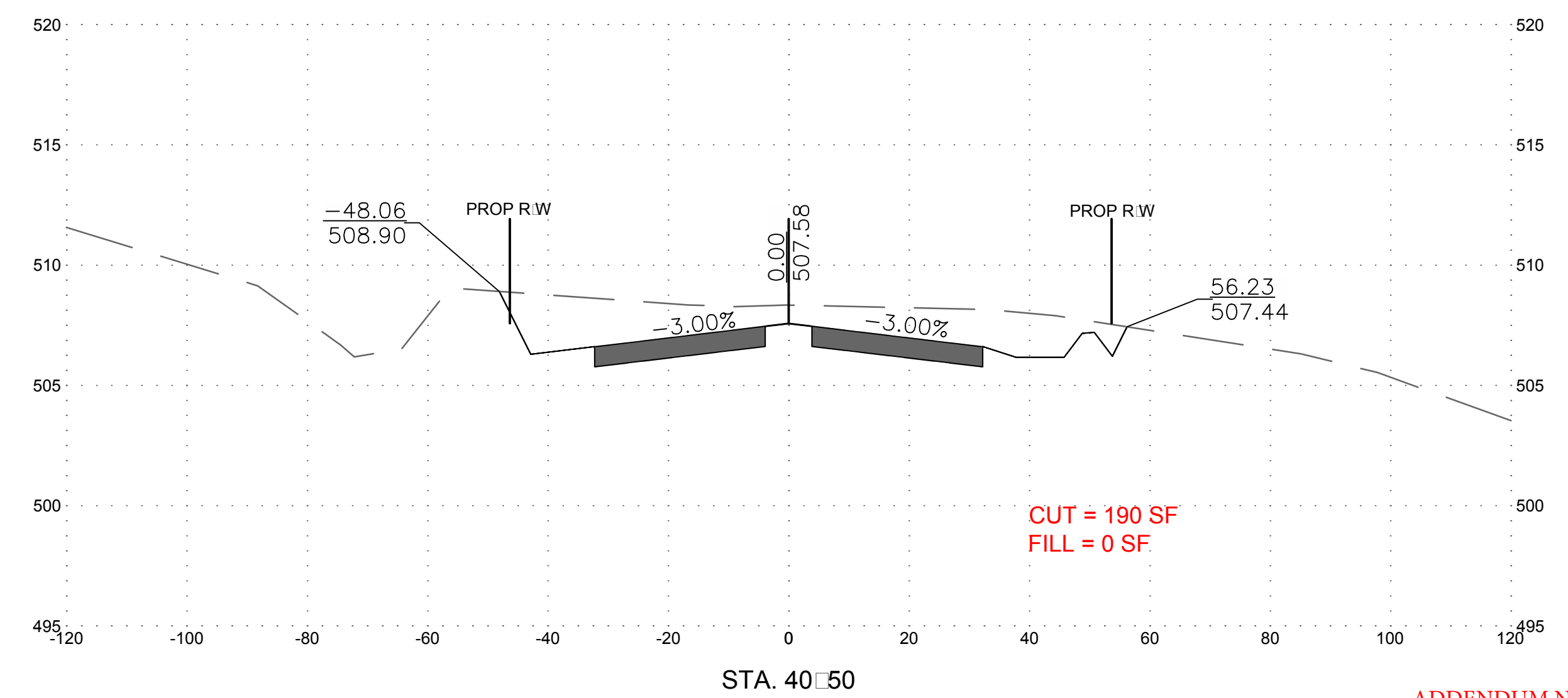
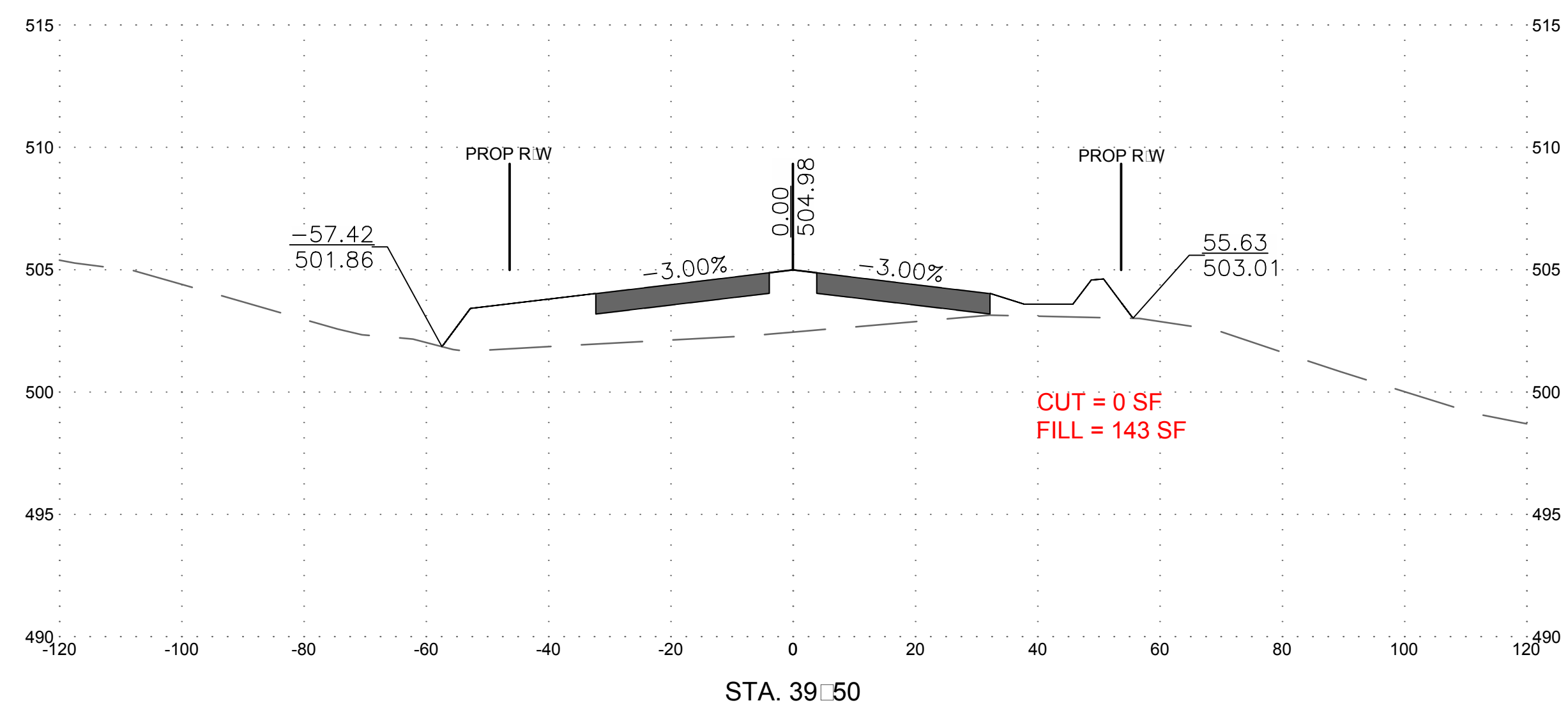
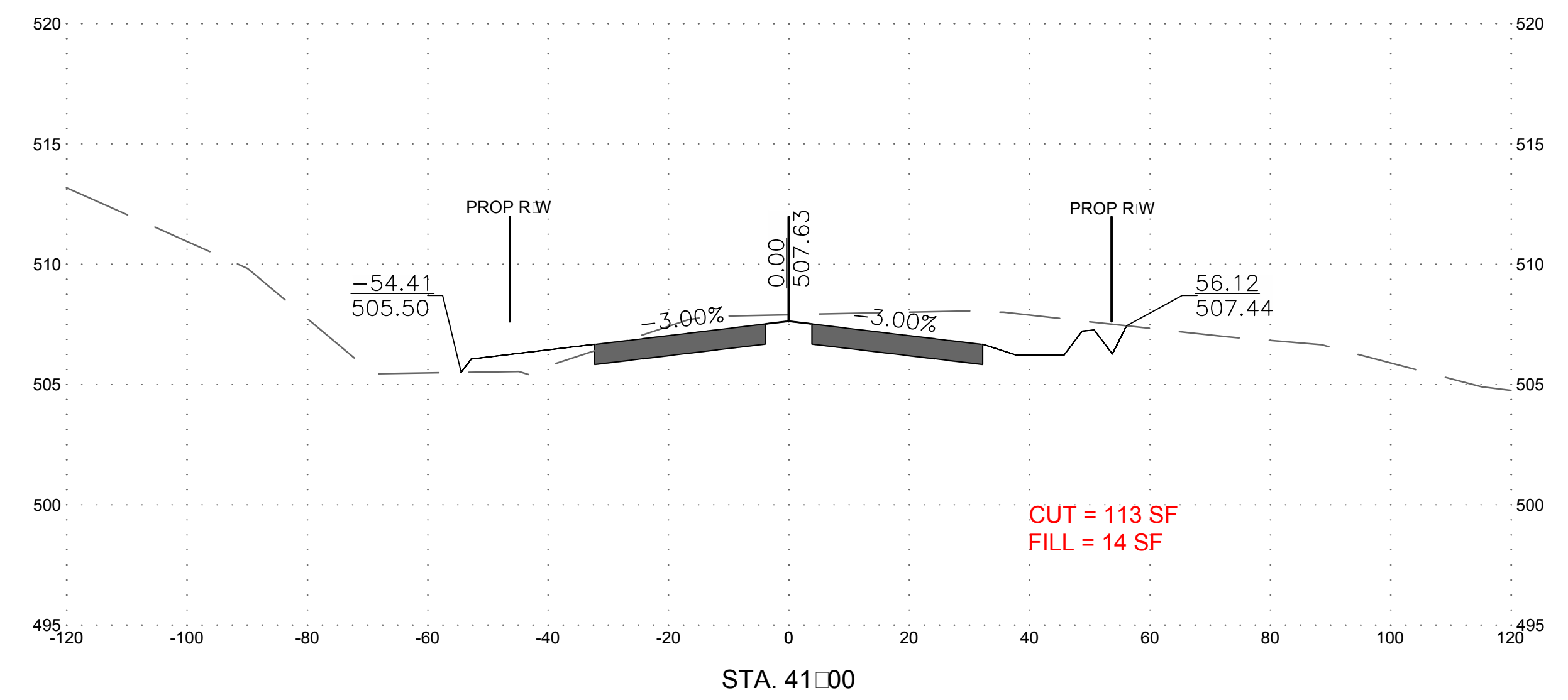
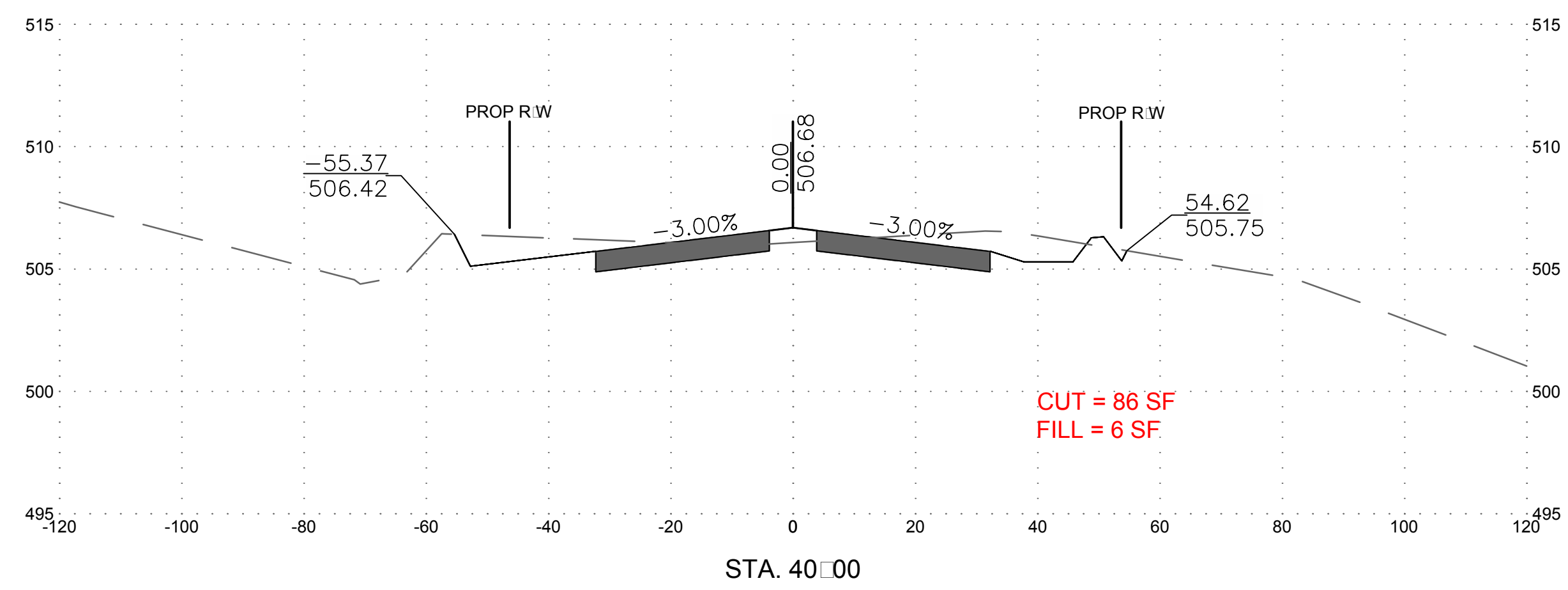
PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK

CROSS SECTIONS

SCALE
H:1"=20' V:1"=5'

SHEET NO.
138 OF 145

PROJECT NO.
10-244



ADDENDUM NO. 3
ATTACHMENT C
Sheet 31 of 37

NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

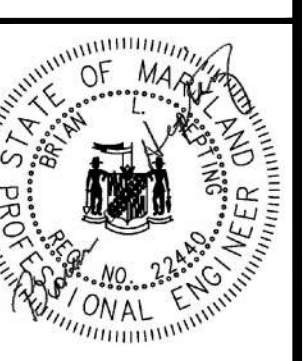
DESIGNED BY: TMB
DRAWN BY: TMB
CHECKED BY:
DATE: APRIL 2019

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
8010 Parkersburg Road, P.O. Box 240
Phone: 240-313-2460 Fax: 240-313-2401



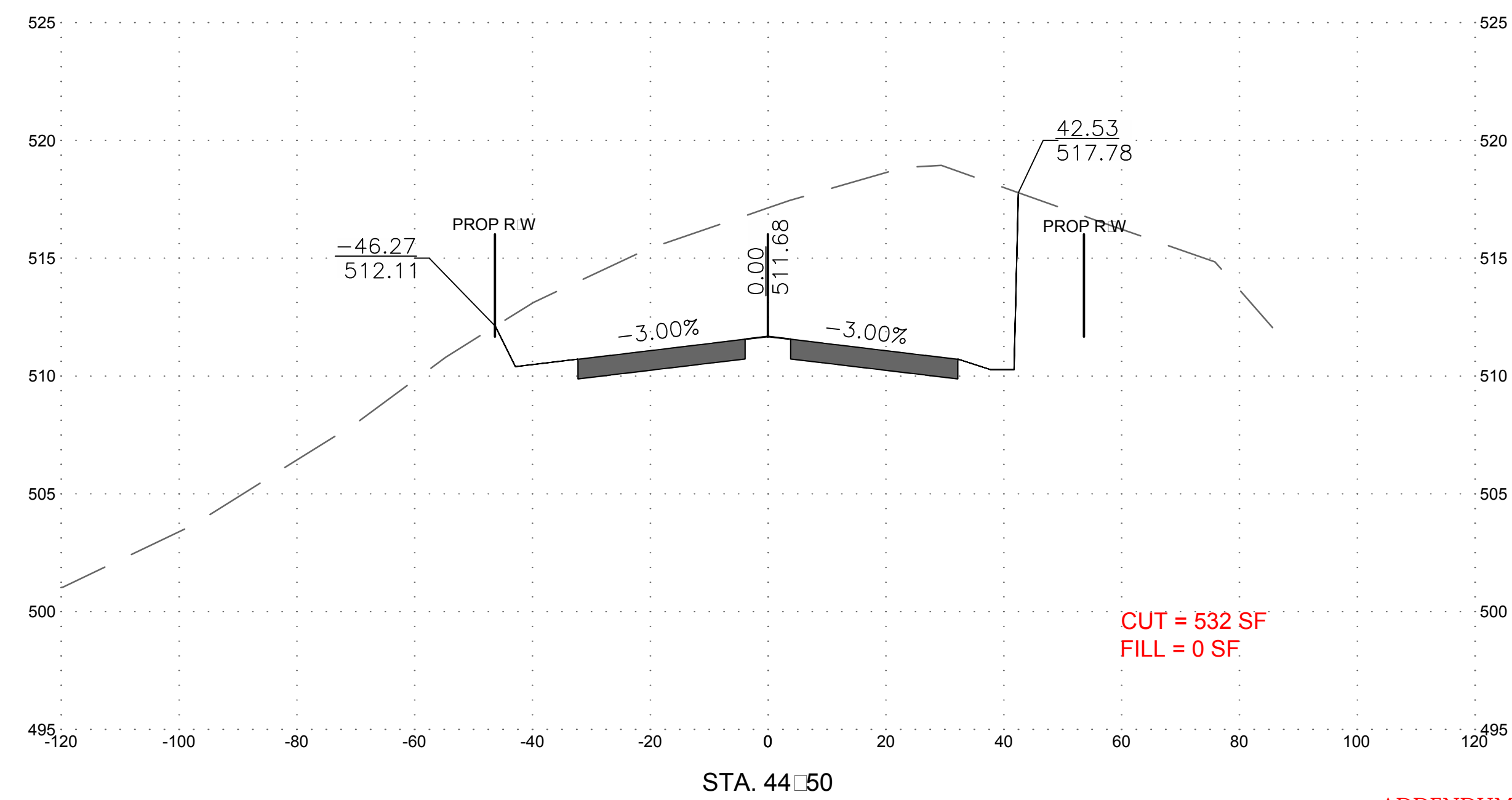
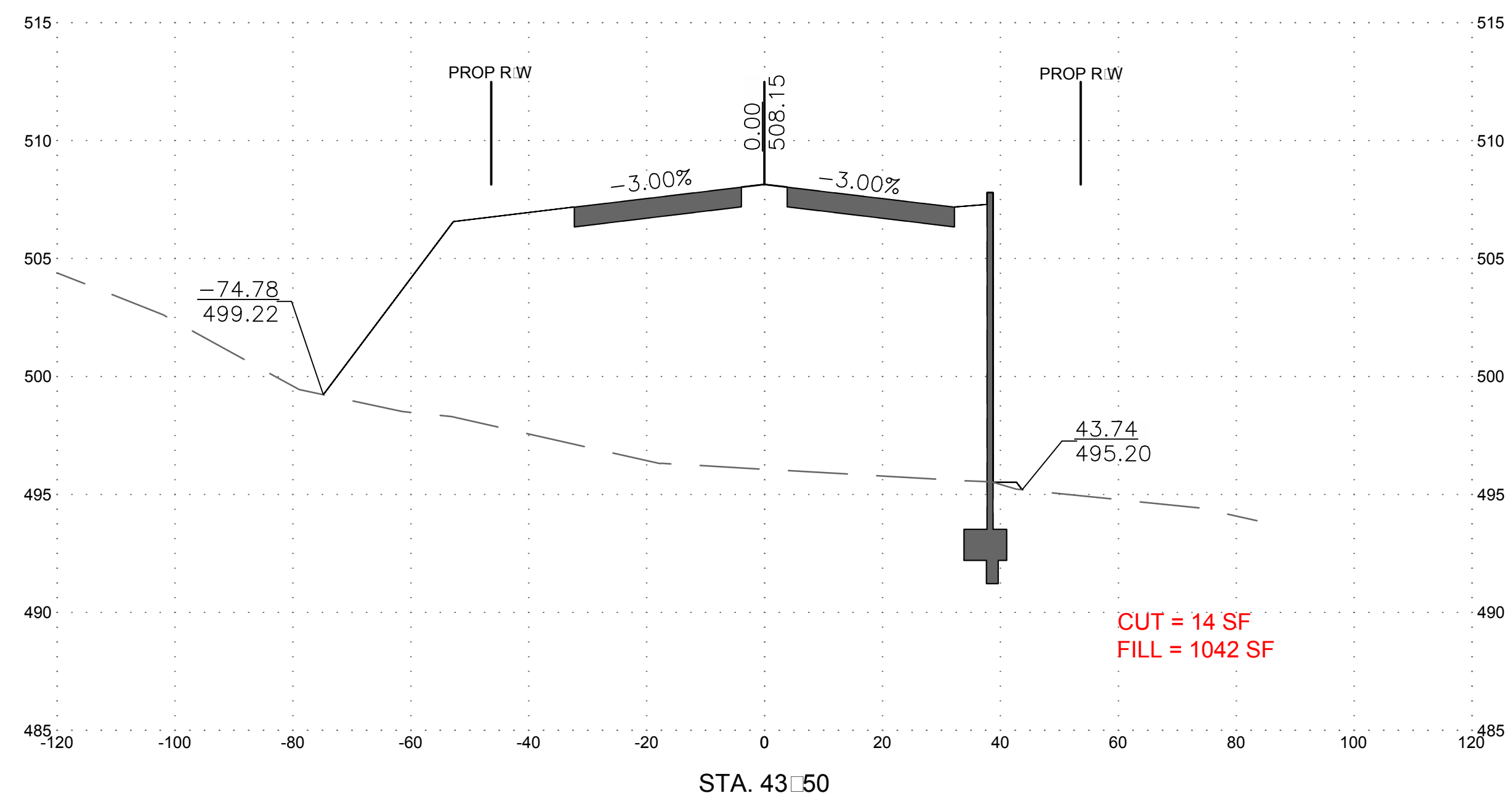
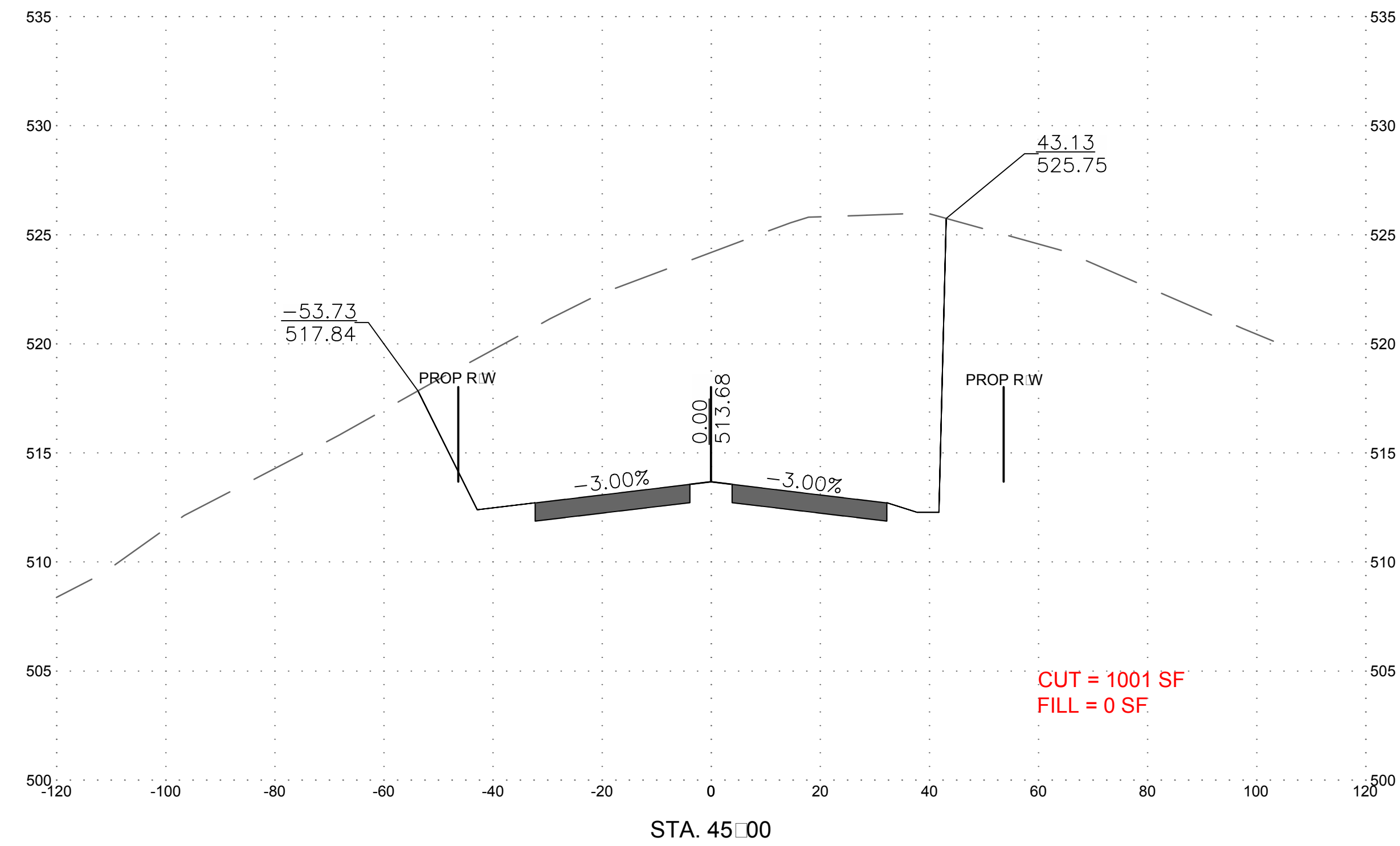
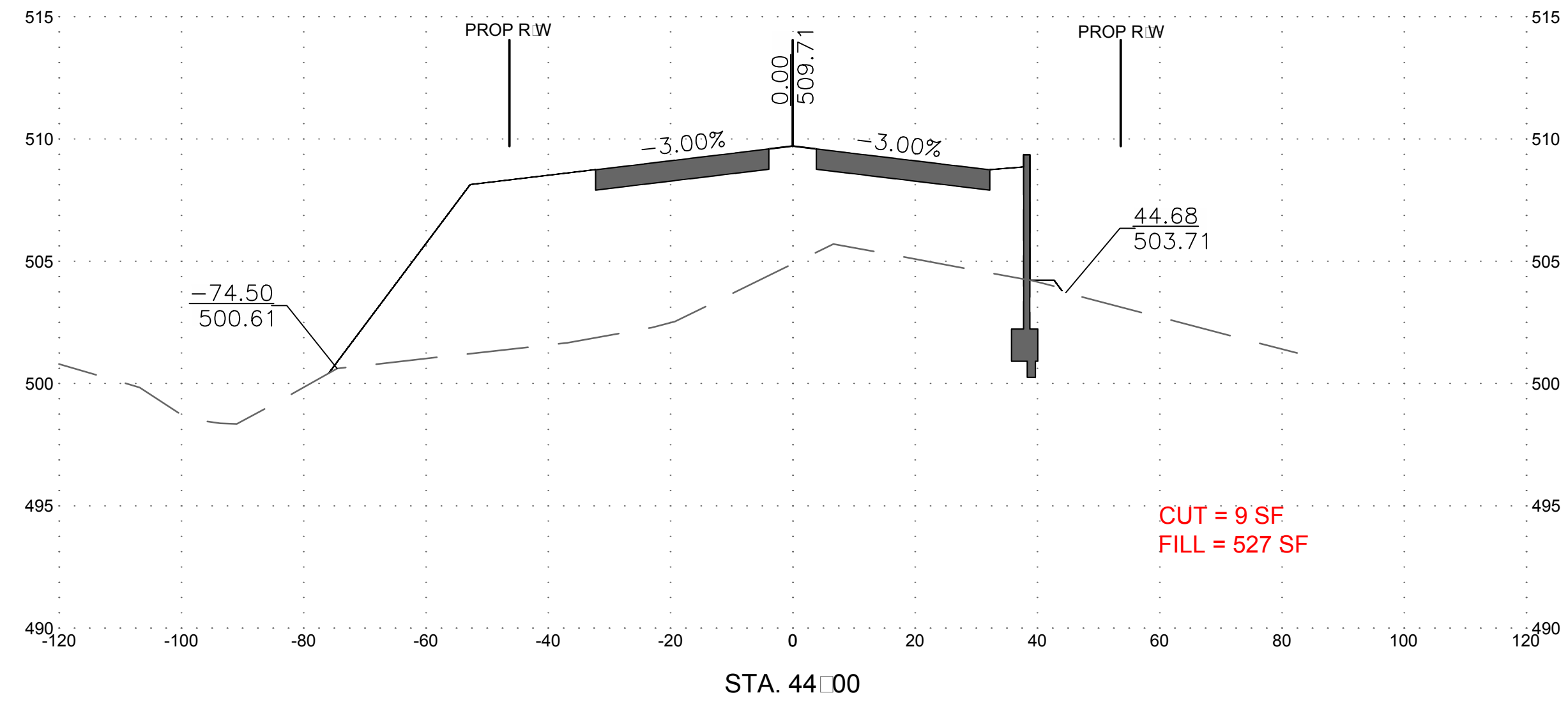
PROFESSIONAL BOULEVARD
BRIDGE OVER ANTIETAM CREEK
CROSS SECTIONS





SCALE
H:1"=20' V:1"=5'

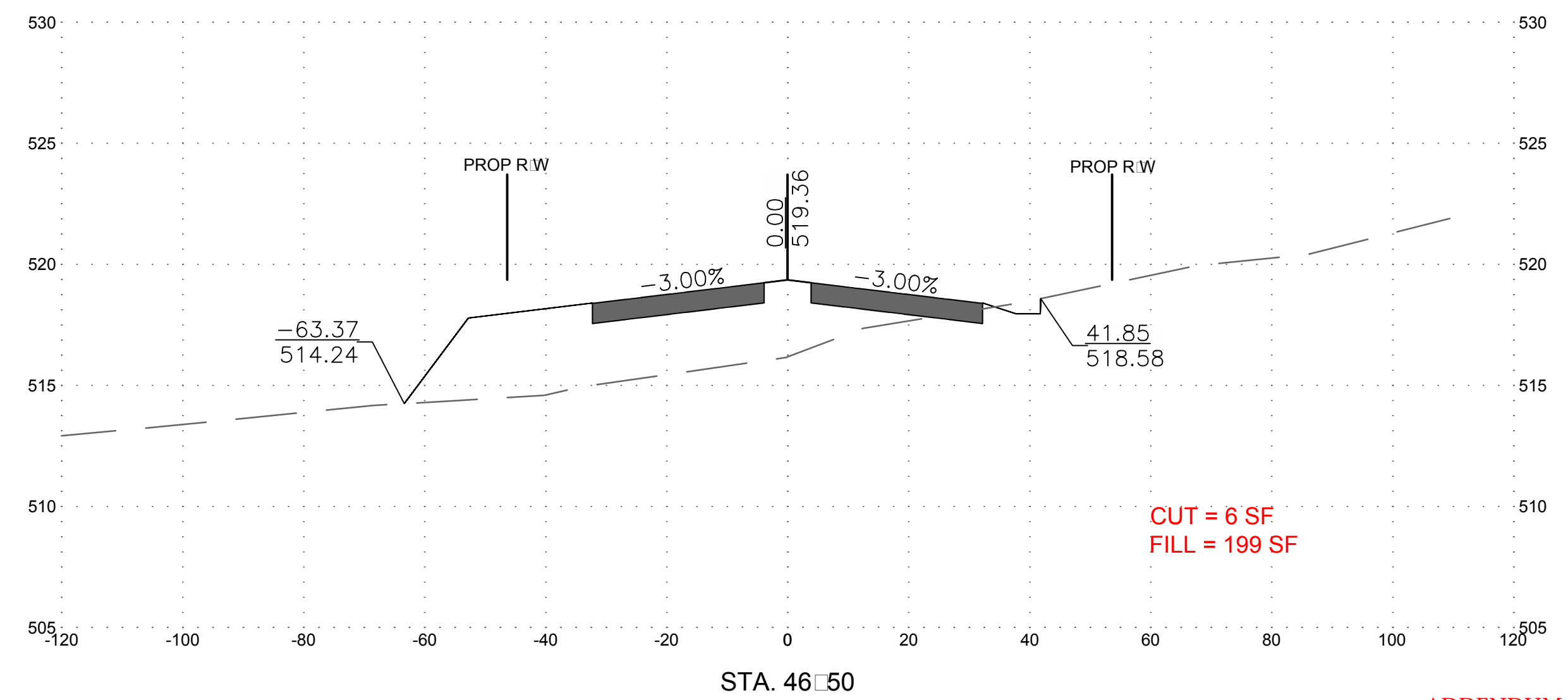
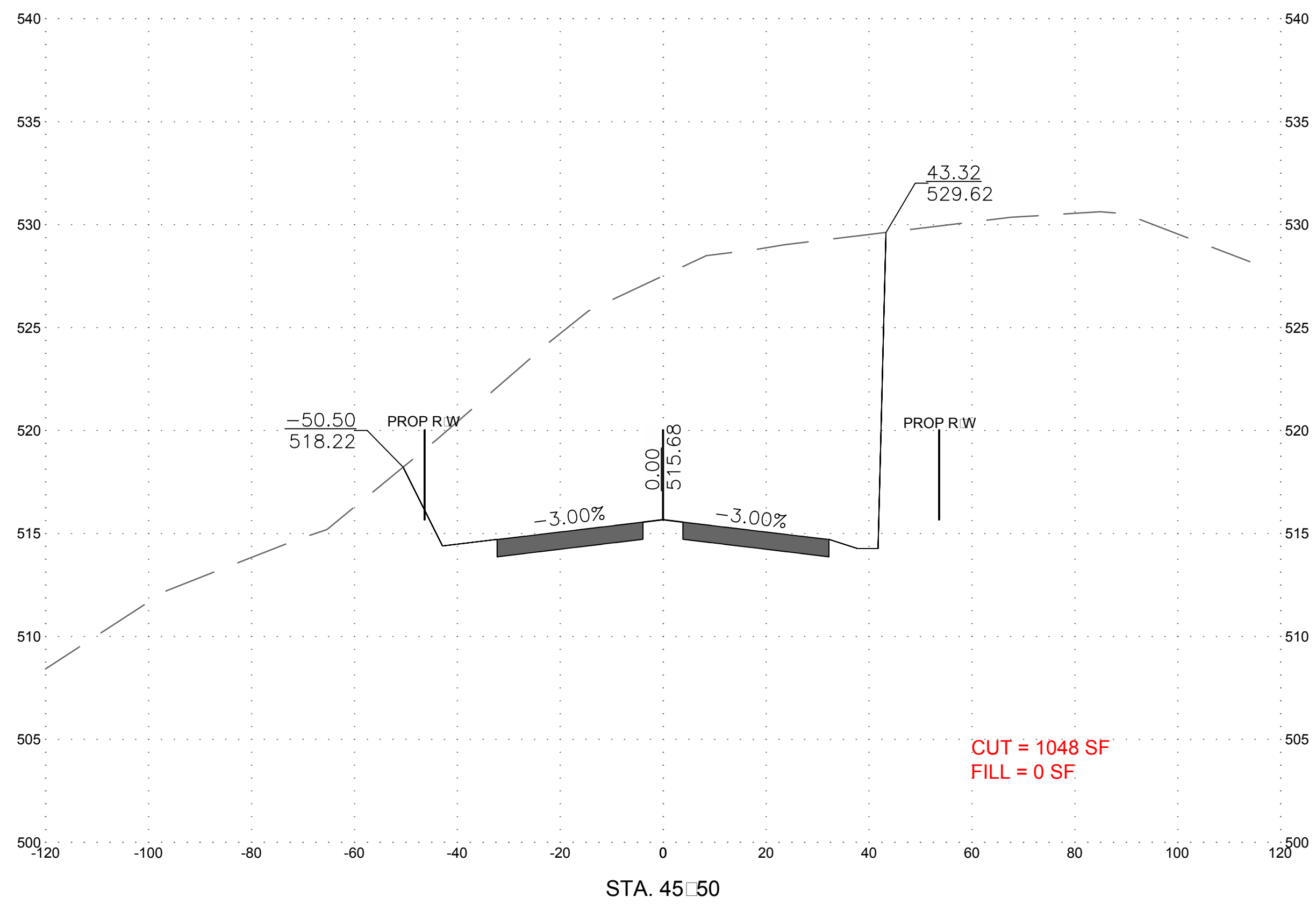
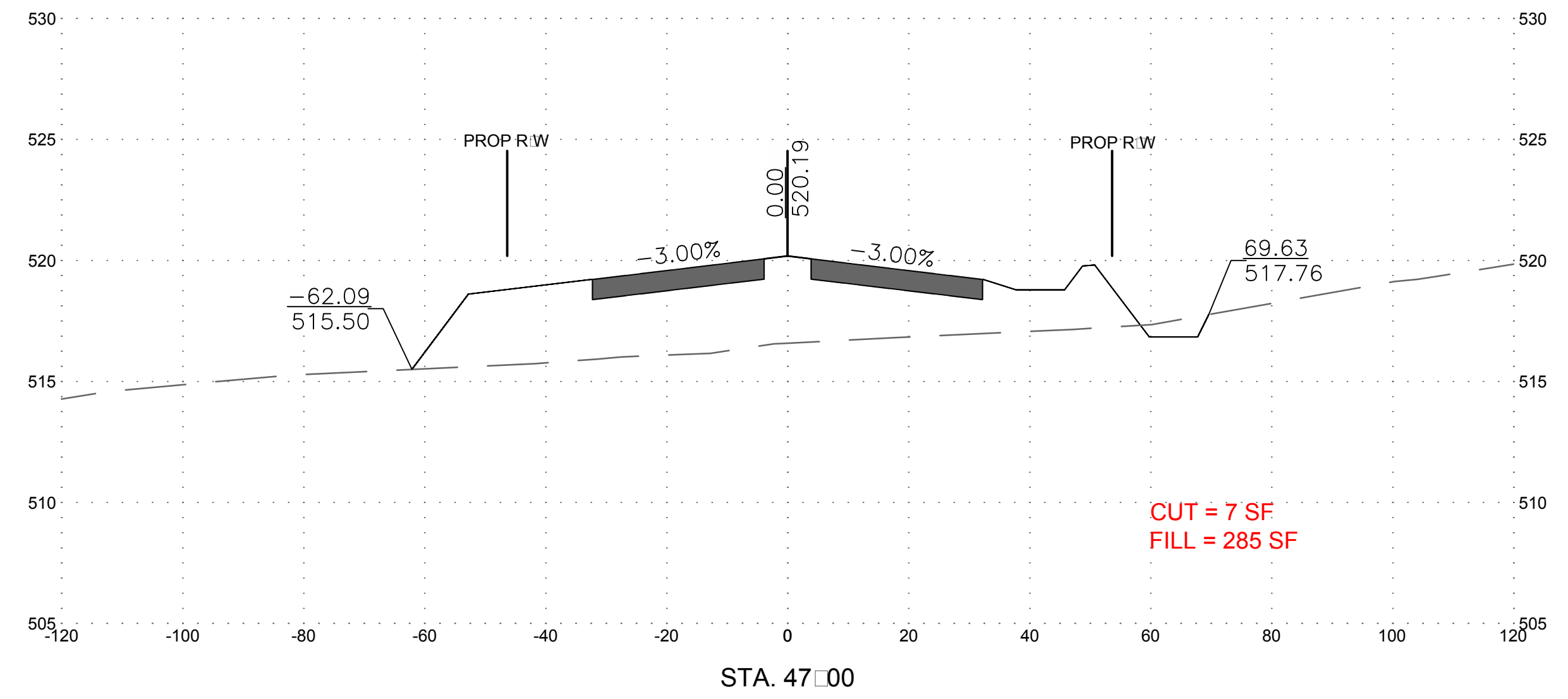
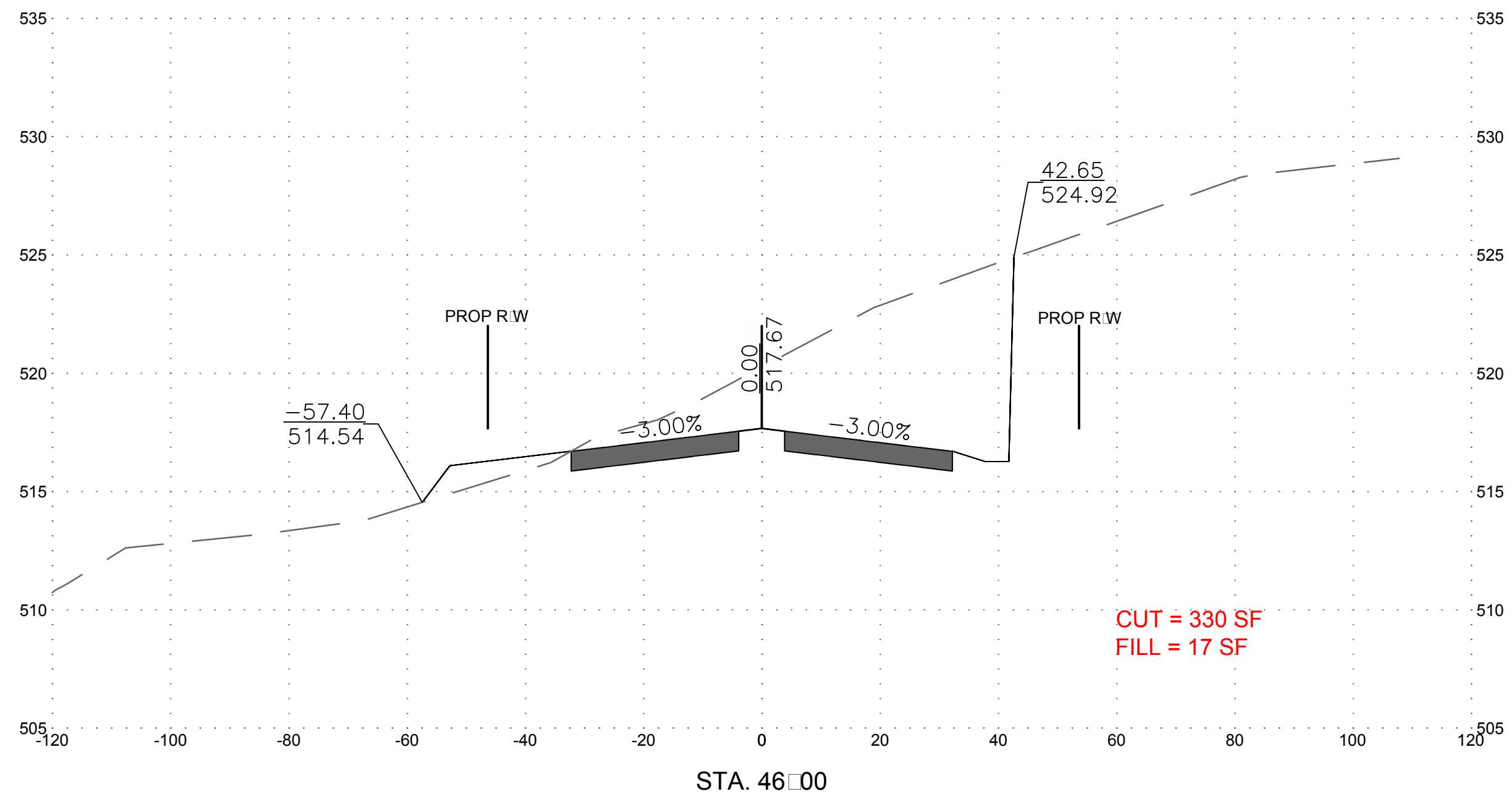
SHEET NO.
139 OF 145

PROJECT NO.
10-244



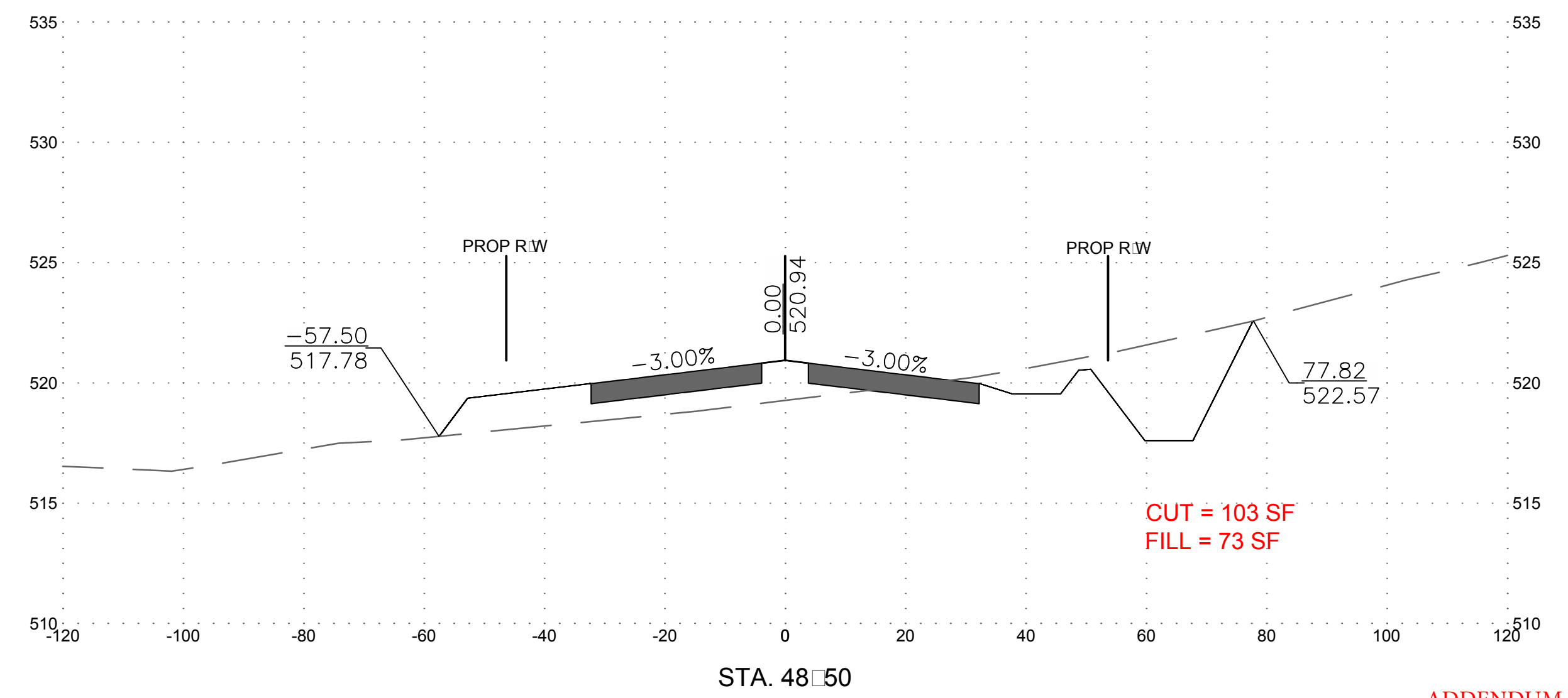
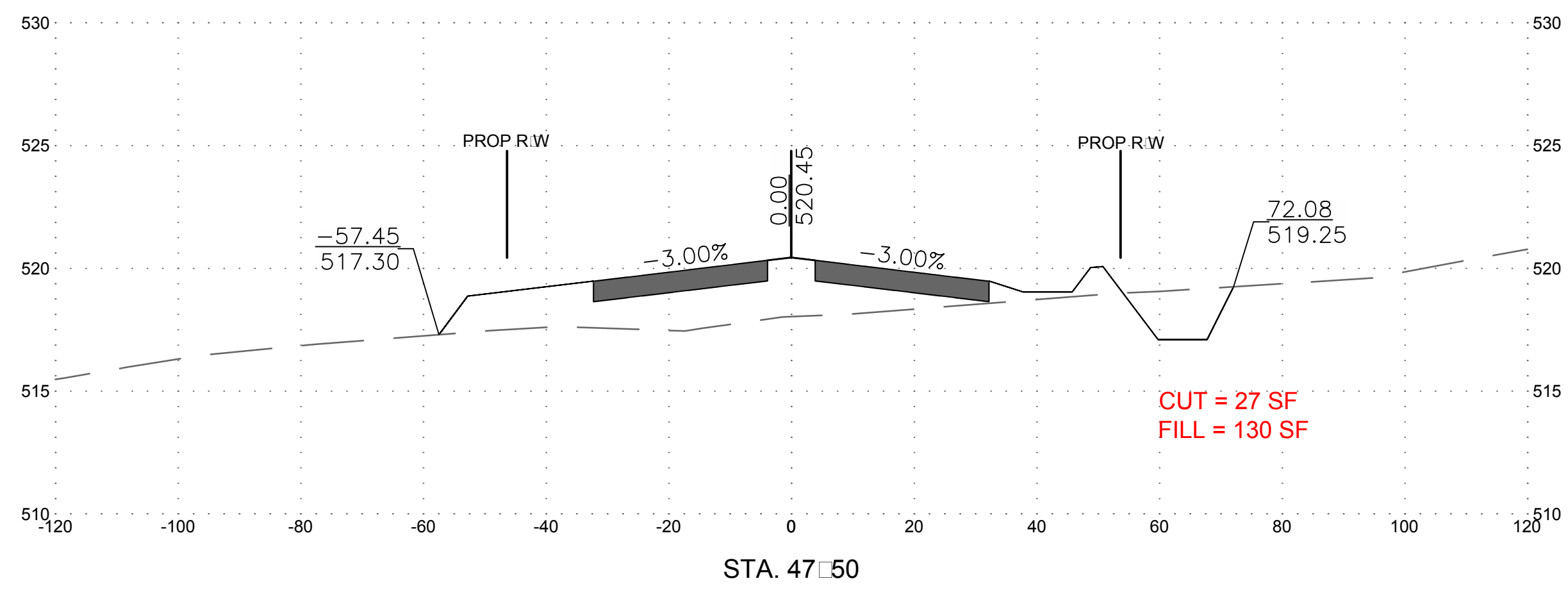
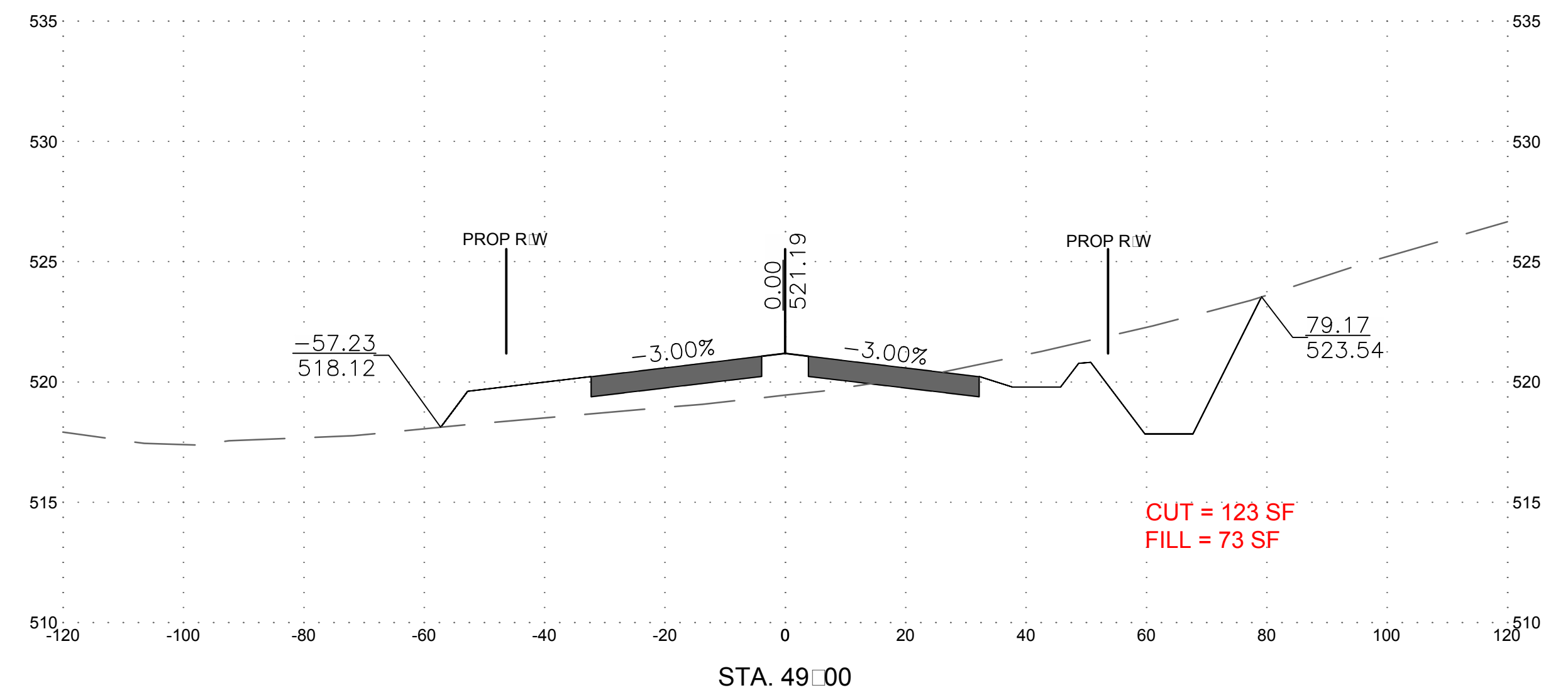
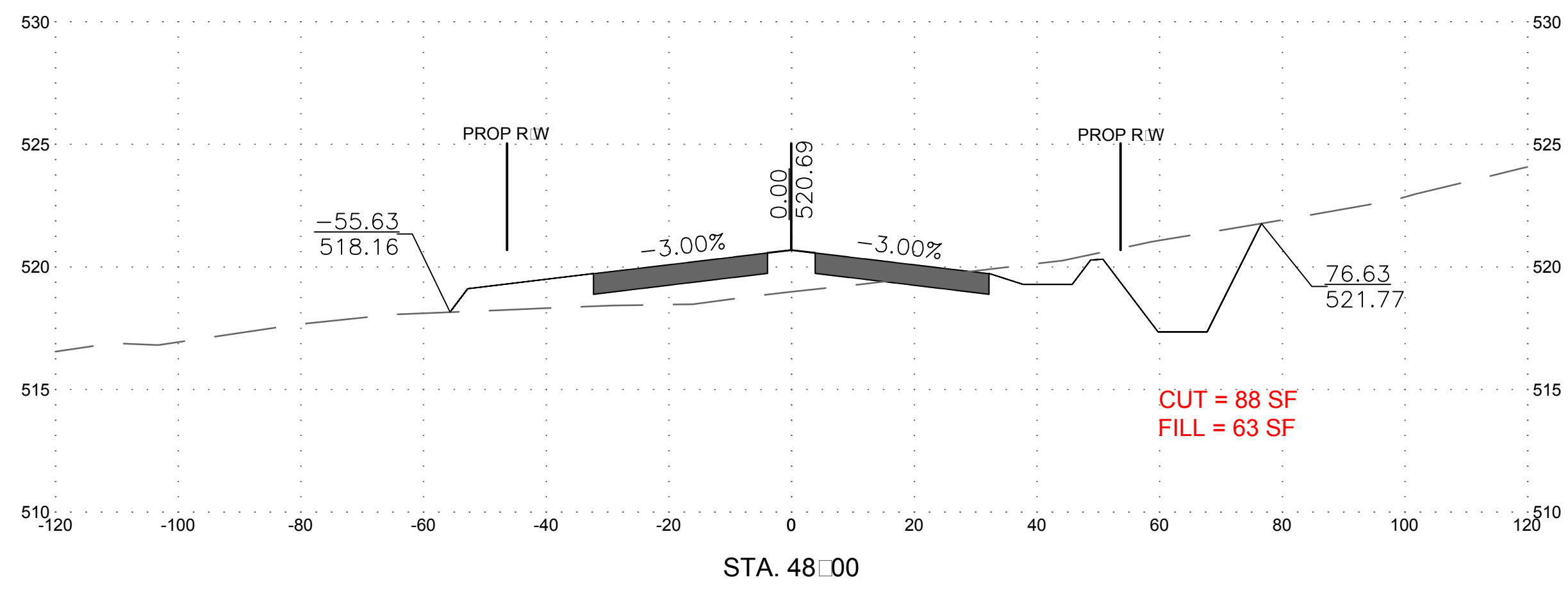
ADDENDUM NO. 3
ATTACHMENT C
Sheet 33 of 37

NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	
DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
TMB	TMB	TMB	APRIL 2019
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING  Washington County Administrative Annex, Building 8010 Professional Center Drive, Suite 400 Phone: 240-313-2460 Fax: 240-313-2401			
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK CROSS SECTIONS			
 SCALE H:1"=20' V:1"=5' SHEET NO. 141 OF 145 PROJECT NO. 10-244			



NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	
DESIGNED BY:	TMB		
DRAWN BY:	TMB		
CHECKED BY:			
DATE:	APRIL 2019		
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING Washington County Administrative Annex, Building 80 W. Main Street, P.O. Box 40 Phone: 240-313-2460 Fax: 240-313-2401			
PROFESSIONAL BOULEVARD BRIDGE OVER ANTIETAM CREEK CROSS SECTIONS			
SCALE			
H:1"=20' V:1"=5'			
SHEET NO.			
142 OF 145			
PROJECT NO.			
10-244			

ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 34 of 37



ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 35 of 37

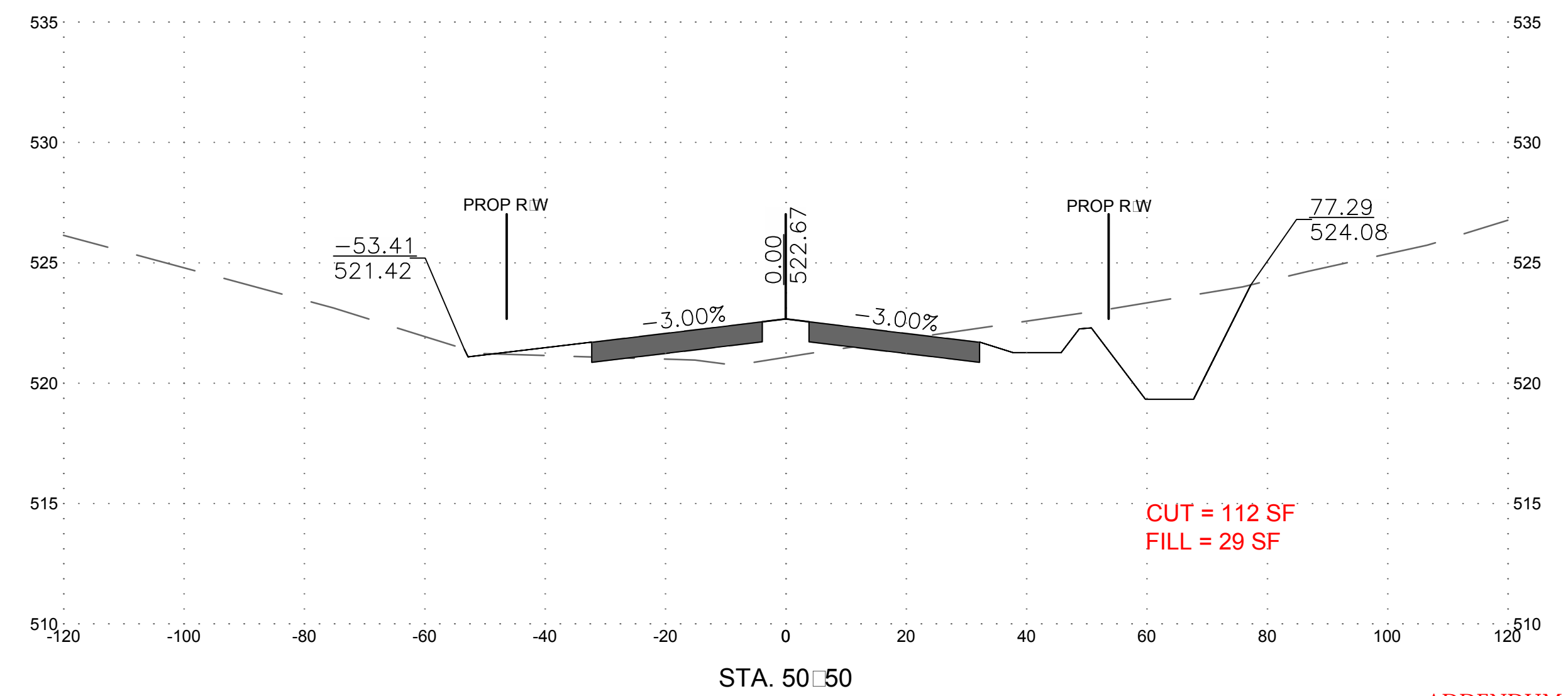
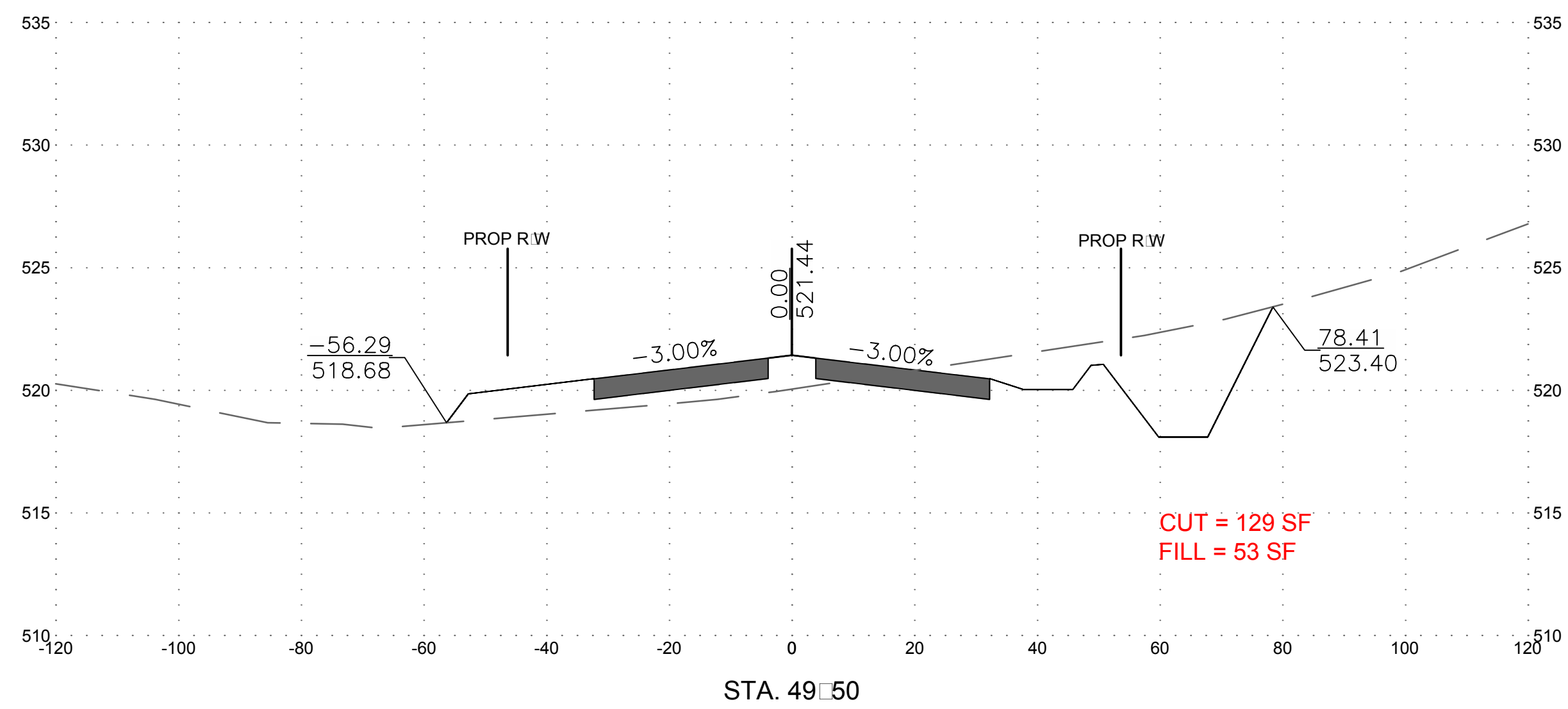
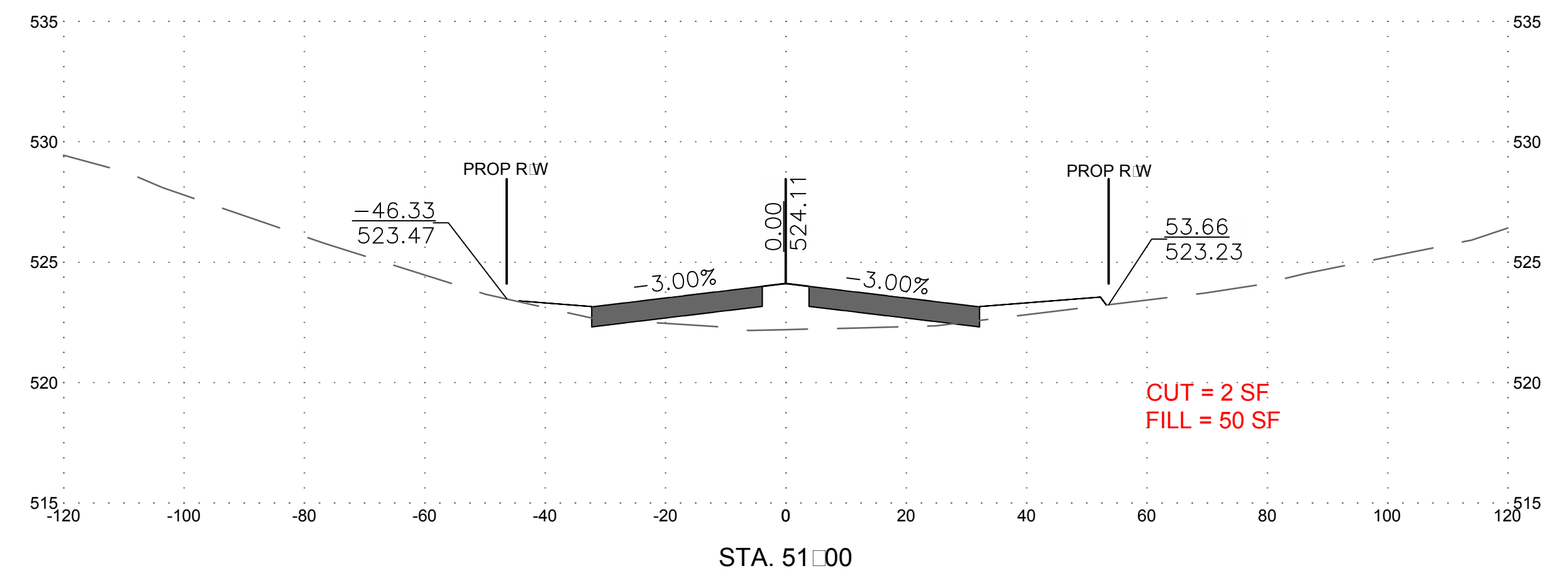
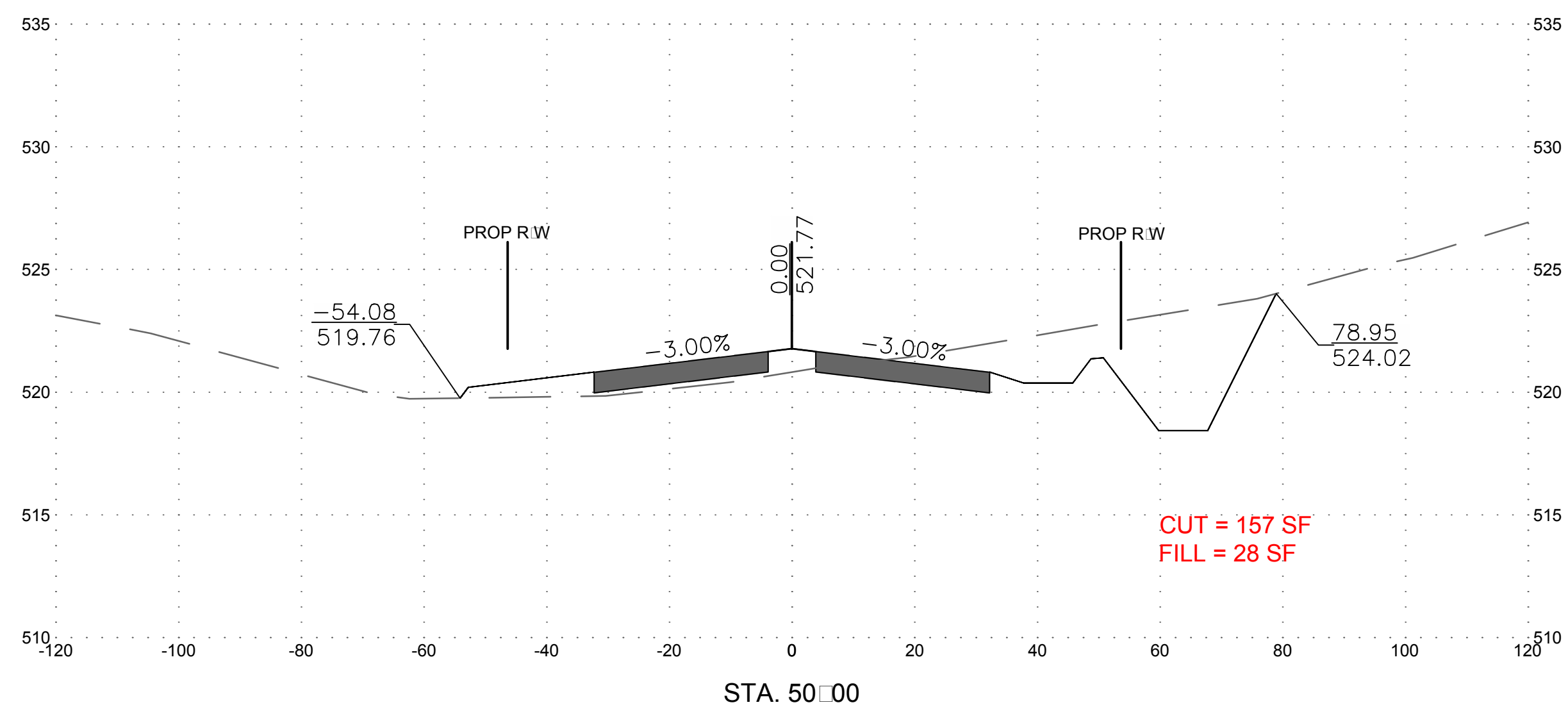
NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING
 Washington County Administrative Annex, Building
 800 W. Main Street, P.O. Box 240
 Phone: 240-313-2460 Fax: 240-313-2401

PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 CROSS SECTIONS



SCALE
 H:1"=20' V:1"=5'
 SHEET NO.
 143 OF 145
 PROJECT NO.
 10-244

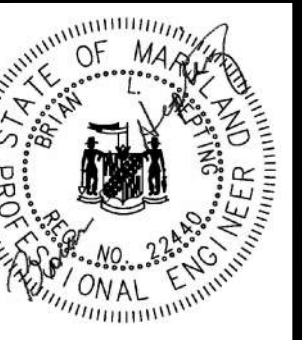


ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 36 of 37

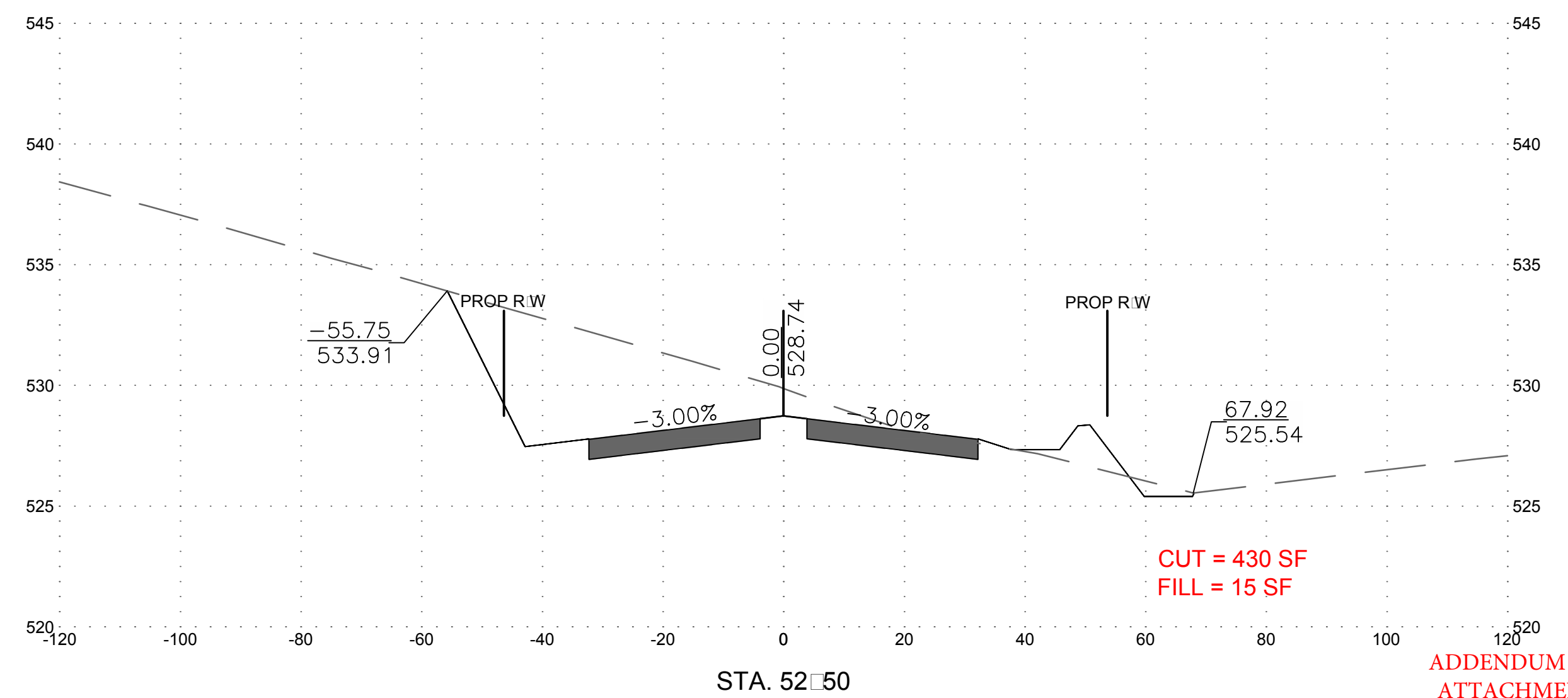
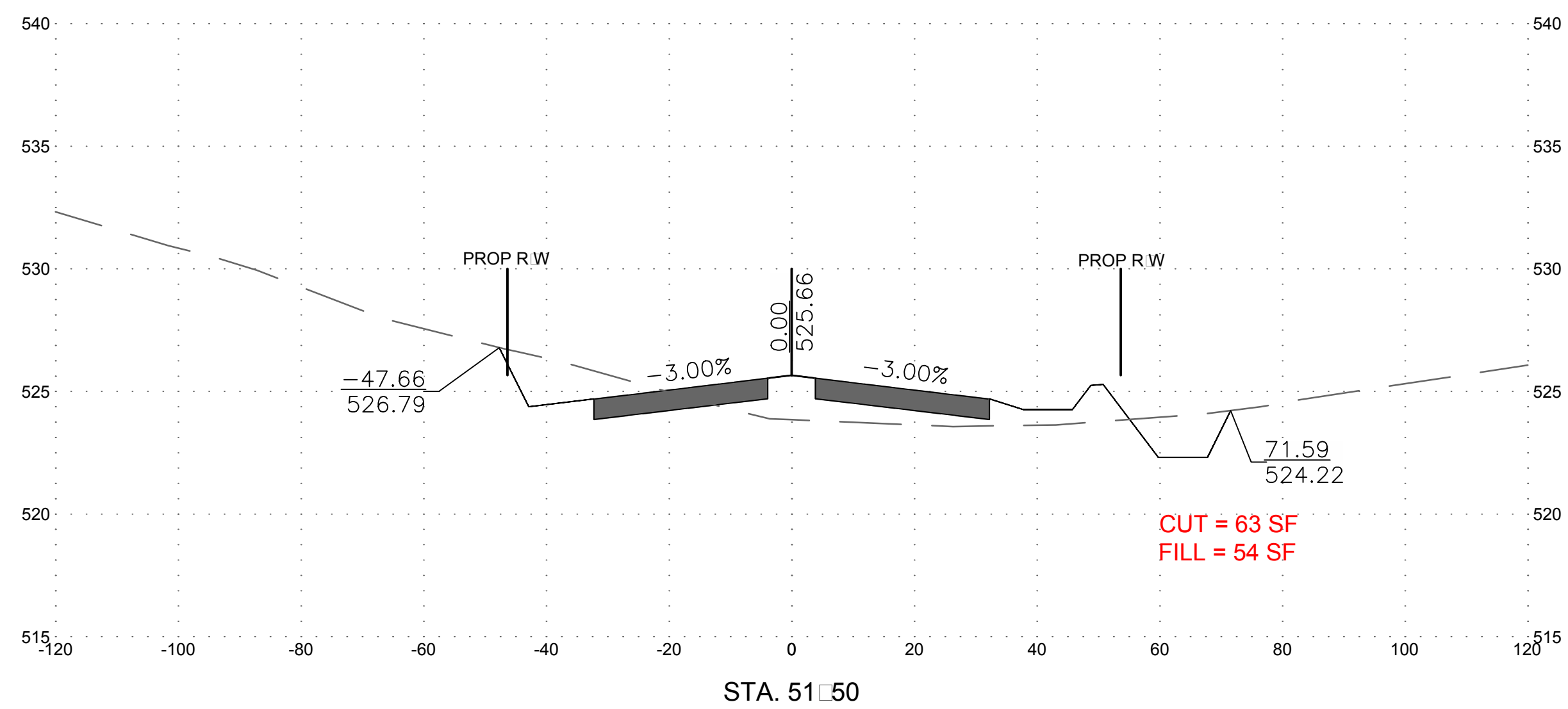
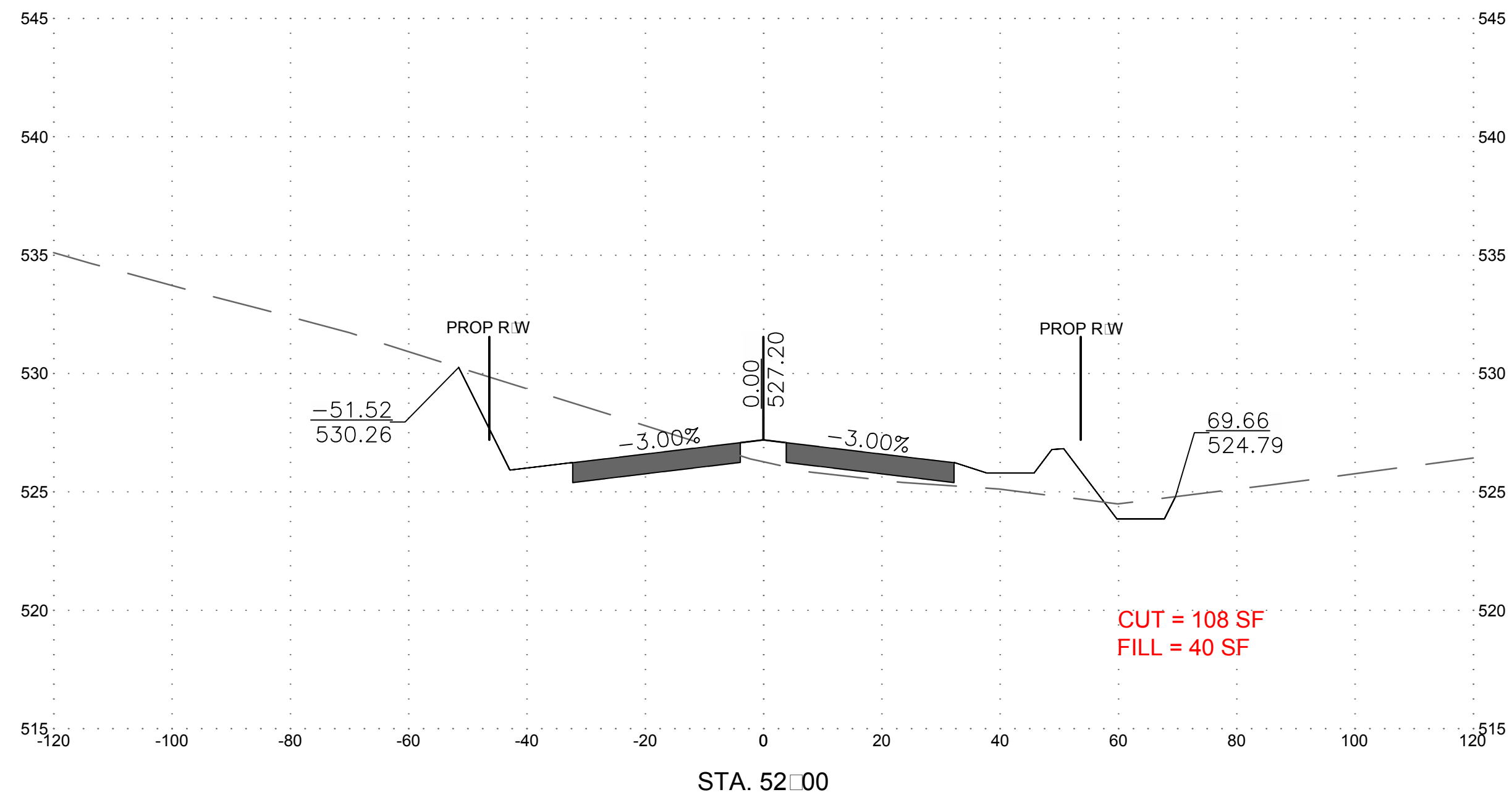
NO.	REVISION DESCRIPTION	BY	DATE
1	ADDED CUT AND FILL QUANTITIES	TMB	

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING
 Washington County Administrative Annex, Building
 80 W. Main Street, P.O. Box 240
 Phone: 240-313-2460 Fax: 240-313-2401

PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 CROSS SECTIONS



SCALE
 H:1"=20' V:1"=5'
 SHEET NO.
 144 OF 145
 PROJECT NO.
 10-244



DESIGNED BY: TMB	DRAWN BY: TMB	CHECKED BY: TMB	DATE: APRIL 2019
NO. 1	REVISION DESCRIPTION ADDED CUT AND FILL QUANTITIES	BY TMB	DATE

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING
 Washington County Administrative Annex, Building
 80 W. Main Street, Martinsburg, MD 25401
 Phone: 240-313-2460 Fax: 240-313-2401

PROFESSIONAL BOULEVARD
 BRIDGE OVER ANTIETAM CREEK
 CROSS SECTIONS

SCALE
 H:1"=20' V:1"=5'
 SHEET NO.
 145 OF 145
 PROJECT NO.
 10-244

ADDENDUM NO. 3
 ATTACHMENT C
 Sheet 37 of 37