

STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION  
 HOLMES COUNTY PARK DISTRICT

# HOLMES-COUNTY TRAIL PHASE 5C2

S.R. 520 TO KILLBUCK  
 KILLBUCK TOWNSHIP  
 HOLMES COUNTY

**PROJECT DESCRIPTION**

CONSTRUCTION OF 2.34 MILES OF PAVED SHARED USE PATH ON ABANDONED RAILROAD BED INCLUDING BRIDGE REHABILITATION AND RECONSTRUCTION, CULVERT REPLACEMENT, SAFETY RAIL, AND EQUESTRIAN STAGING WORK.

WORK INCLUDES BRIDGE REHABILITATION, FULL DEPTH SHOULDER WORK, AND INTERSECTION PEDESTRIAN FACILITY IMPROVEMENT ON STATE ROUTE 60 ABUTTING SHARED USE PATH INTO THE TOWN OF KILLBUCK.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA: 8.87 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.125 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: 9.0 ACRES

**STAGING AREA:**

PROJECT EARTH DISTURBED AREA: 2.9 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.125 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: 4.0 ACRES

**2023 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

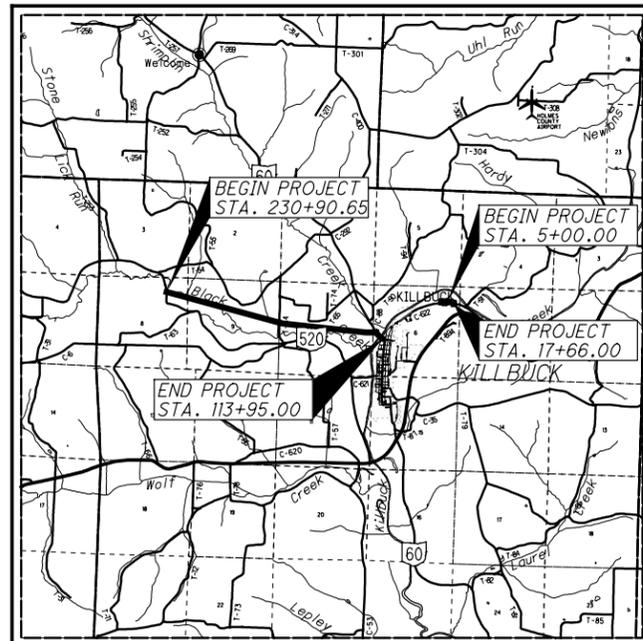
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED BY IRENE BURGETT

APPROVED *Irene Burgett*  
 DATE 9-16-25 HOLMES COUNTY PARK DISTRICT

APPROVED *Walter*  
 DATE 9-16-25 HOLMES COUNTY PARK DISTRICT

APPROVED *R.P.*  
 DATE 9-16-25 HOLMES COUNTY PARK DISTRICT



LOCATION MAP

LATITUDE: 40°30'14" LONGITUDE: -82°00'20"



PORTION TO BE IMPROVED	-----	=====
INTERSTATE HIGHWAY	-----	=====
FEDERAL ROUTES	-----	=====
STATE ROUTES	-----	=====
COUNTY & TOWNSHIP ROADS	-----	=====
OTHER ROADS	-----	=====

**DESIGN DESIGNATION**

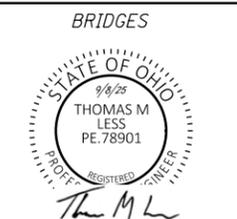
CURRENT YEAR (2024) ADT	N/A	TRAIL	S.R. 60
DESIGN YEAR (2044) ADT	N/A		1704 (INFO FROM ODOT TIMS)
DESIGN HOURLY VOLUME	N/A		173 (INFO FROM ODOT TIMS)
DESIGN SPEED	20 MPH		35 MPH
LEGAL SPEED	N/A		35 MPH
DESIGN FUNCTIONAL CLASSIFICATION	N/A		MAJOR COLLECTOR
NHS PROJECT	N/A		N/A

DESIGN EXCEPTIONS NONE REQUIRED  
 ADA DESIGN WAIVER NONE REQUIRED

**INDEX OF SHEETS:**

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HOL-60-0423	127-133

ENGINEERS SEAL:



ENGINEERS SEAL:



**UNDERGROUND UTILITIES**  
 Contact Two Working Days Before You Dig

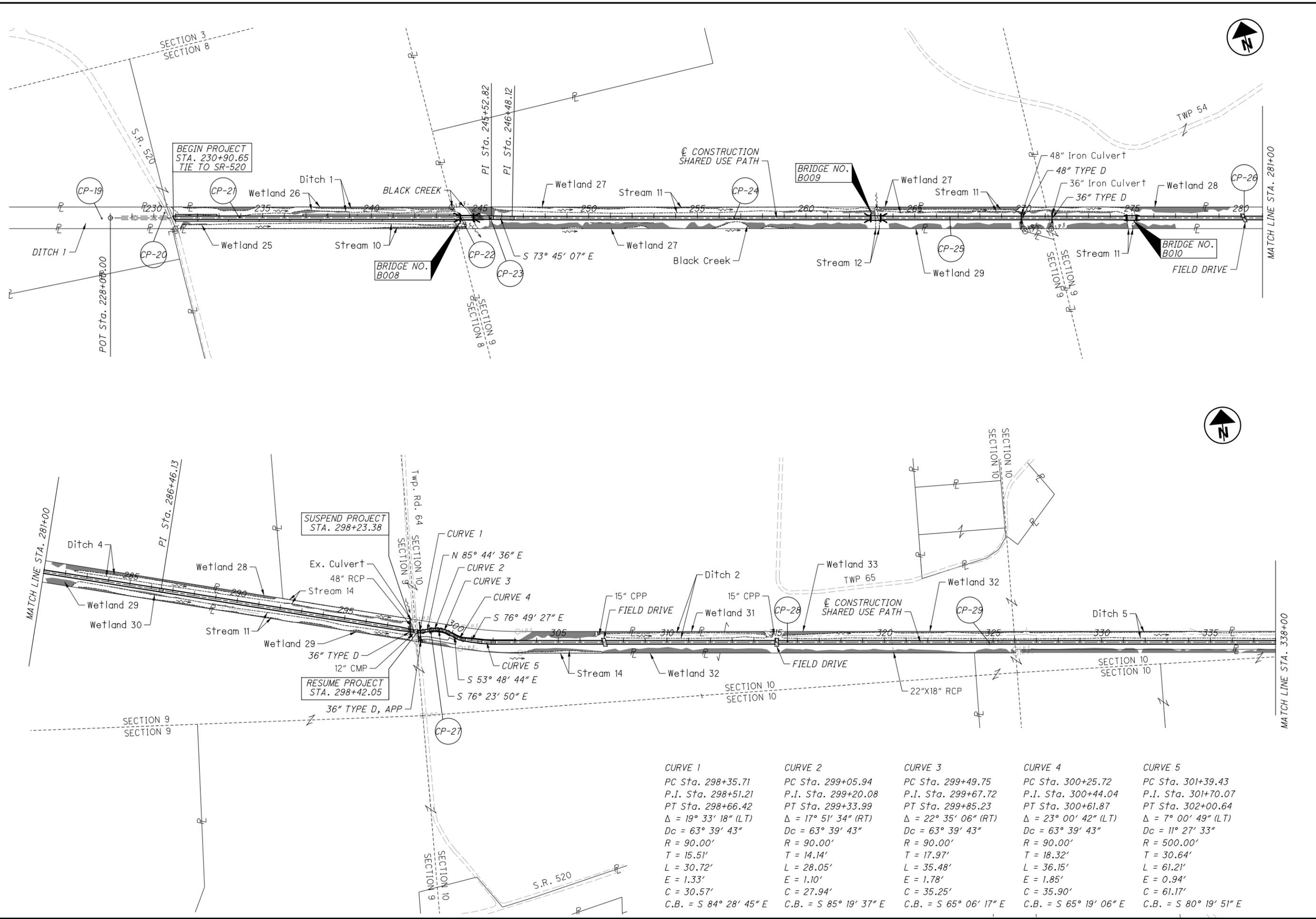
OHIO811, 8-1-1, or 1-800-362-2764  
 (Non-members must be called directly)

PLAN PREPARED BY:  
 ONE EASTON OVAL  
 SUITE 400  
 COLUMBUS, OH 43219  
 T 614-476-6000  
 F 614-476-6225

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS		
BP-3.1	1/19/2024	HW-1.1	7/19/2024	DS-1-92	7/15/2022	TC-41.20	10/18/2013	800-2023	7/18/25	WATERWAY PERMIT
BP-4.1	7/19/2013	HW-2.2	7/20/2018	PSBD-1-25	7/18/2025	TC-41.30	4/21/2023	832	7/18/25	
				TST-1-99	1/15/2021	TC-42.20	10/18/2013	838	7/18/25	
CB-2-2B	7/19/2024	MGS-2.1	7/18/2025	TST-2-21	1/17/2025	TC-52.10	10/18/2013	856	7/21/23	
CB-2-4	7/19/2024	MGS-3.3	7/18/2025			TC-52.20	1/15/2021	902	7/19/19	
DM-1.1	1/17/2025	MGS-4.2	7/18/2025	MT-96.11	7/21/2023	TC-61.30	7/19/2024			
DM-1.2	1/17/2025	MGS-4.3	7/18/2025	MT-96.20	1/17/2025	TC-71.10	7/18/2025			
DM-4.2	7/20/2012	RM-4.5	7/18/2025	MT-96.26	1/17/2025	TC-74.10	7/21/2023			
DM-4.3	1/15/2016	RM-4.6	7/18/2025	MT-97.10	4/19/2019					
DM-4.4	1/15/2016	RM-5.1	7/18/2014	MT-97.11	1/20/2017	USFS STD 942-20-01				
F-1.1	7/18/2025	RM-5.2	7/21/2023	MT-101.70	7/19/2024	USFS STD RHP1				
F-3.2	7/18/2014			MT-101.90	7/17/2020					
				MT-105.10	1/17/2020					

FEDERAL PROJECT NO. E240232  
 CONSTRUCTION PROJECT NO. 120806  
 RAILROAD INVOLVEMENT NONE  
 HOL-COUNTY TRAIL PHASE 5C2  
 1/133

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**SCHEMATIC PLAN**

**HOL-COUNTY TRAIL  
PHASE 5C2**

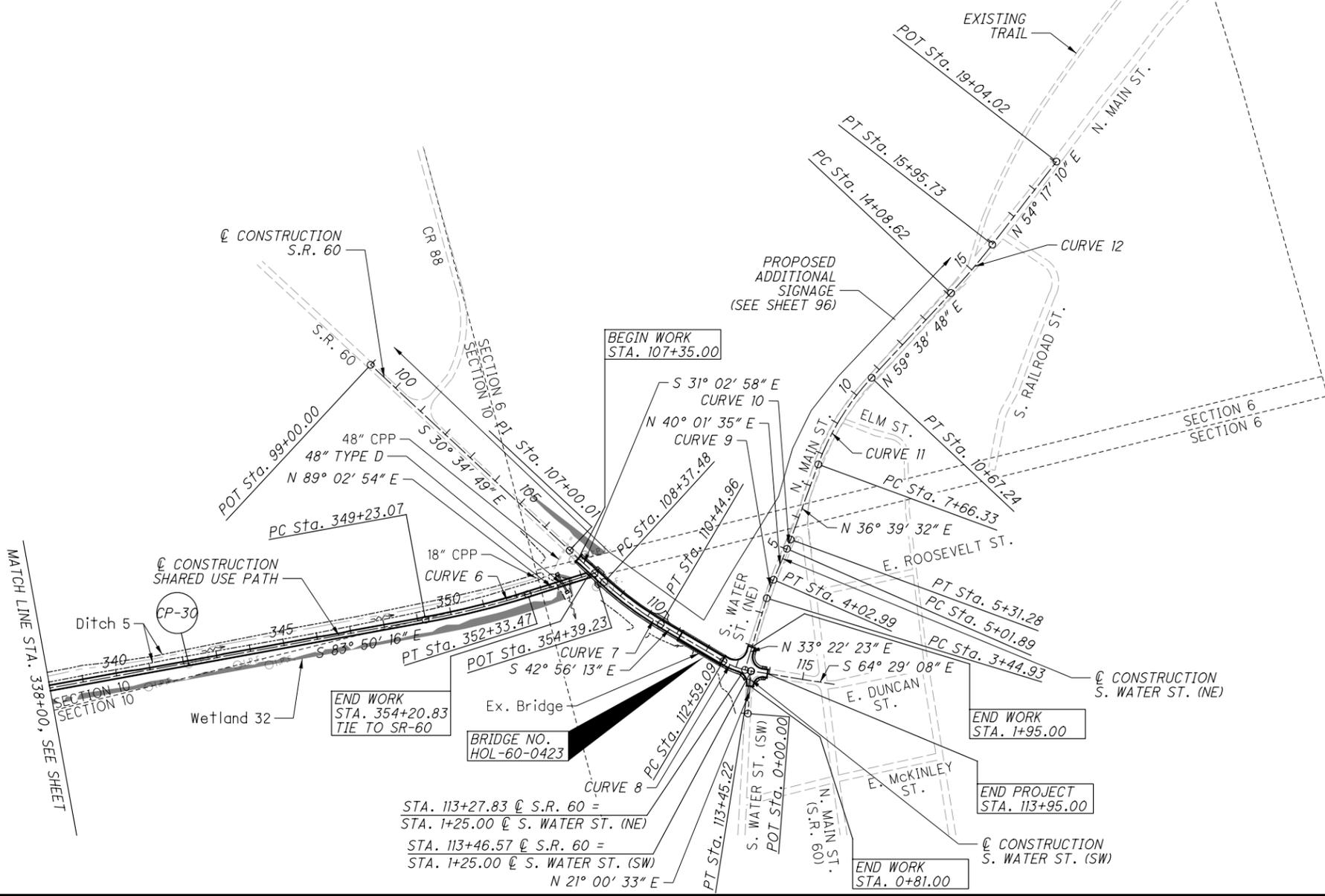
CURVE 1	CURVE 2	CURVE 3	CURVE 4	CURVE 5
PC Sta. 298+35.71	PC Sta. 299+05.94	PC Sta. 299+49.75	PC Sta. 300+25.72	PC Sta. 301+39.43
P.I. Sta. 298+51.21	P.I. Sta. 299+20.08	P.I. Sta. 299+67.72	P.I. Sta. 300+44.04	P.I. Sta. 301+70.07
PT Sta. 298+66.42	PT Sta. 299+33.99	PT Sta. 299+85.23	PT Sta. 300+61.87	PT Sta. 302+00.64
$\Delta = 19^\circ 33' 18" (LT)$	$\Delta = 17^\circ 51' 34" (RT)$	$\Delta = 22^\circ 35' 06" (RT)$	$\Delta = 23^\circ 00' 42" (LT)$	$\Delta = 7^\circ 00' 49" (LT)$
Dc = 63' 39' 43"	Dc = 11' 27' 33"			
R = 90.00'	R = 90.00'	R = 90.00'	R = 90.00'	R = 500.00'
T = 15.51'	T = 14.14'	T = 17.97'	T = 18.32'	T = 30.64'
L = 30.72'	L = 28.05'	L = 35.48'	L = 36.15'	L = 61.21'
E = 1.33'	E = 1.10'	E = 1.78'	E = 1.85'	E = 0.94'
C = 30.57'	C = 27.94'	C = 35.25'	C = 35.90'	C = 61.17'
C.B. = S 84° 28' 45" E	C.B. = S 85° 19' 37" E	C.B. = S 65° 06' 17" E	C.B. = S 65° 19' 06" E	C.B. = S 80° 19' 51" E

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HORIZONTAL AND VERTICAL CONTROL - SHARED USE PATH						
REF.	DESCRIPTION	STATION	OFFSET	ELEV.	NORTHING	EASTING
CP-19	IRON PIN	227+60.51	2.4' RT.	820.31	307281.81	2099156.53
CP-20	IRON PIN	230+49.42	23.2' LT.	819.53	307231.15	2099442.12
CP-21	IRON PIN	233+92.84	2.0' LT.	819.26	307120.97	2099768.08
CP-22	IRON PIN	244+13.86	2.1' RT.	818.90	306850.49	2100752.64
CP-23	IRON PIN	245+48.80	1.9' RT.	817.32	306815.49	2100882.94
CP-24	IRON PIN	256+68.91	0.9' LT.	817.74	306523.45	2101964.30
CP-25	IRON PIN	266+61.96	0.4' LT.	816.66	306263.28	2102922.66
CP-26	IRON PIN	280+16.03	1.7' LT.	814.25	305910.38	2104229.94
CP-27	IRON PIN	299+01.36	16.0' RT.	808.57	305413.79	2106051.52
CP-28	IRON PIN	315+54.47	2.8' LT.	806.93	305199.80	2107677.48
CP-29	IRON PIN	324+83.33	1.0' RT.	807.55	305096.28	2108600.56
CP-30	IRON PIN	342+14.61	3.1' RT.	809.53	304908.39	2110321.62

HORIZONTAL AND VERTICAL CONTROL - S.R. 60						
REF.	DESCRIPTION	STATION	OFFSET	ELEV.	NORTHING	EASTING
CP-31	MAG	102+05.35	15.3' LT.	811.37	305343.43	2111252.34
CP-32	IRON PIN	106+91.60	19.1' LT.	809.29	304926.77	2111503.01

HORIZONTAL AND VERTICAL CONTROL - STAGING AREA						
REF.	DESCRIPTION	STATION	OFFSET	ELEV.	NORTHING	EASTING
CP-33	IRON PIN	9+37.64	55.3' LT.	830.43	306443.39	2115364.48
CP-34	IRON PIN	17+62.21	91.0' RT.	815.52	306420.31	2115974.31



<p><b>CURVE 6</b>  P.C. Sta. 349+23.07  P.I. Sta. 350+78.47  P.T. Sta. 352+33.47  <math>\Delta = 7^\circ 06' 50''</math> (LT)  Dc = <math>2^\circ 17' 31''</math>  R = 2,500.00'  T = 155.40'  L = 310.40'  E = 4.83'  C = 310.21'  C.B. = S <math>87^\circ 23' 41''</math> E</p>	<p><b>CURVE 7</b>  P.C. Sta. 108+37.48  P.I. Sta. 109+41.60  P.T. Sta. 110+44.96  <math>\Delta = 11^\circ 53' 16''</math> (LT)  Dc = <math>5^\circ 43' 46''</math>  R = 1,000.00'  T = 104.11'  L = 207.48'  E = 5.41'  C = 207.11'  C.B. = S <math>36^\circ 59' 35''</math> E</p>	<p><b>CURVE 8</b>  P.C. Sta. 112+59.09  P.I. Sta. 113+02.67  P.T. Sta. 113+45.22  <math>\Delta = 21^\circ 32' 55''</math> (LT)  Dc = <math>25^\circ 01' 12''</math>  R = 229.00'  T = 43.58'  L = 86.13'  E = 4.11'  C = 85.62'  C.B. = S <math>53^\circ 42' 41''</math> E</p>
<p><b>CURVE 9</b>  P.C. Sta. 3+44.93  P.I. Sta. 3+73.99  P.T. Sta. 4+02.99  <math>\Delta = 6^\circ 39' 11''</math> (RT)  Dc = <math>11^\circ 27' 33''</math>  R = 500.00'  T = 29.06'  L = 58.06'  E = 0.84'  C = 58.03'  C.B. = N <math>36^\circ 41' 59''</math> E</p>	<p><b>CURVE 10</b>  P.C. Sta. 5+01.89  P.I. Sta. 5+16.59  P.T. Sta. 5+31.28  <math>\Delta = 3^\circ 22' 03''</math> (LT)  Dc = <math>11^\circ 27' 33''</math>  R = 500.00'  T = 14.70'  L = 29.39'  E = 0.22'  C = 29.38'  C.B. = N <math>38^\circ 20' 33''</math> E</p>	<p><b>CURVE 11</b>  P.C. Sta. 7+66.33  P.I. Sta. 9+18.84  P.T. Sta. 10+67.24  <math>\Delta = 22^\circ 59' 16''</math> (RT)  Dc = <math>7^\circ 38' 22''</math>  R = 750.00'  T = 152.51'  L = 300.91'  E = 15.35'  C = 298.89'  C.B. = N <math>48^\circ 09' 10''</math> E</p>
<p><b>CURVE 12</b>  P.C. Sta. 14+08.62  P.I. Sta. 15+02.24  P.T. Sta. 15+95.73  <math>\Delta = 5^\circ 21' 38''</math> (LT)  Dc = <math>2^\circ 51' 53''</math>  R = 2,000.00'  T = 93.63'  L = 187.12'  E = 2.19'  C = 187.05'  C.B. = N <math>56^\circ 57' 59''</math> E</p>		



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REF NO.	SHEET NO.	STATION TO STATION						202	601	611	611	611	607	659	670	SPECIAL	SPECIAL						
								FENCE REMOVED	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	12" CONDUIT, TYPE B	12" CONDUIT, TYPE D	CATCH BASIN, NO. 2-2B	FENCE, MISC.:WOOD FENCE (SAFETY RAIL PER SCD RM-5.2)	TOPSOIL	DITCH EROSION PROTECTION	BICYCLE RACK	HITCHING POST						
							FT	CY	FT	FT	EACH	FT	CY	SY	EACH	EACH							
R-1	8	9+31.47	LT	TO	9+18.23	LT	237																
R-2	8	9+52.10	LT	TO	10+86.74	LT	162																
R-3	8	11+96.45	LT	TO	12+71.82	LT	76																
R-4	8,9	9+18.23	LT	TO	17+37.87	RT	902																
R-5	9	14+97.57	RT	TO	15+51.40	RT	54																
R-6	9	16+75.29	RT	TO	17+02.85	LT	39																
D-1	8	12+06.42	LT	TO	12+35.31	LT				30													
D-2	9	14+40.02	RT	TO	15+10.00	LT			82		1												
D-3	9	14+46.44	LT	TO	14+75.41	LT				30													
D-4	9	16+72.91	RT	TO	16+95.55	LT				70													
E-1	8	9+63.14	LT	TO	12+15.00	LT							95	848									
E-2	9	15+10.00	LT					2															
E-3	9	16+95.55	LT					4															
F-1	8	9+19.15	LT	TO	9+31.47	LT					119												
B-1	9	14+22.76	RT												1								
B-2	9	15+47.43	RT												1								
H-1	8	9+30.26	LT														1						
H-2	8	9+27.29	LT														1						
H-3	8	9+24.32	LT														1						
H-4	8	9+21.37	LT														1						
TOTALS CARRIED TO GENERAL SUMMARY							1470	6	82	130	1	119	95	848	2	4							

<b>HOL-COUNTY TRAIL PHASE 5C2</b>	<b>STAGING AREA SUBSUMMARY</b>								
<table border="1" style="margin: auto;"> <tr> <td style="padding: 2px;">CALCULATED</td> <td style="padding: 2px;">4</td> </tr> <tr> <td style="padding: 2px;">HBZ</td> <td style="padding: 2px;">133</td> </tr> <tr> <td style="padding: 2px;">CHECKED</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">AKA</td> <td style="padding: 2px;"></td> </tr> </table>	CALCULATED	4	HBZ	133	CHECKED		AKA		
CALCULATED	4								
HBZ	133								
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REF NO.	SHEET NO.	LOCATION	STATION TO STATION		CODE	SIZE (INCHES)	630					642								
							GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND REELECTION	REMOVAL OF WOOD POLE AND DISPOSAL	CENTER LINE, TYPE 1	CHANNELIZING LINE, 8", TYPE 1	STOP LINE, TYPE 1	TRANSVERSE/DIAGONAL LINE, TYPE 1, (YELLOW)	PARKING LOT STALL MARKING, TYPE 1	LANE ARROW, TYPE 1	DOTTED LINE, 4", TYPE 1, (WHITE)	HANDICAP SYMBOL MARKING, TYPE 1	
							FT	EACH	SF	EACH	EACH	MILE	FT	FT	FT	FT	EACH	FT	EACH	
S-1	9	STAGING AREA DRIVE	17+55.67		RT	D4-I-SPECIAL R1-1-24	EXISTING 24 x 24	10.5	1	4.00	1	1								
TC-1	8,9	STAGING AREA	10+69.92	CL	TO	17+66.02	CL					0.14								
TC-2	8	STAGING AREA	7+84.59	RT	TO	8+28.45	RT						62							
TC-3	8	STAGING AREA	7+19.53	RT	TO	7+63.39	RT						62							
TC-4	8	STAGING AREA	6+40.40	RT	TO	6+98.34	RT						62							
TC-5	8	STAGING AREA	5+51.05	LT										14						
TC-6	8	STAGING AREA	11+95.79	LT	TO	12+45.79	LT								124					
TC-7	8	STAGING AREA	11+45.79	LT	TO	11+95.79	LT											50		
TC-8	8	STAGING AREA	11+95.79	LT	TO	12+45.79	LT						50						50	
TC-9	8	STAGING AREA	12+45.79	LT	TO	12+95.79	LT												50	
TC-10	8	STAGING AREA	11+17.39	LT														1		
TC-11	8	STAGING AREA	9+97.11	LT														1		
TC-12	8	STAGING AREA	9+45.93	LT														1		
TC-13	8	STAGING AREA	8+66.26	LT														1		
TC-14	8	STAGING AREA	7+02.74	LT														1		
TC-15	8	STAGING AREA	6+46.93	LT														1		
TC-16	8	STAGING AREA	5+58.97	LT														1		
TC-17	8	STAGING AREA	12+81.40	LT														1		
TC-18	8	STAGING AREA	12+81.40	RT														1		
TC-19	8	STAGING AREA	12+91.76	RT	TO	13+55.59	RT											1	64	
TC-20	8	STAGING AREA	11+17.39	RT														1		
TC-21	8	STAGING AREA	12+20.74	LT															1	
TC-22	9	STAGING AREA	17+55.67	RT																
TC-23	9	STAGING AREA	15+00.00	RT																
TC-24	9	STAGING AREA	13+40.43	RT	TO	13+61.09	RT													
TC-25	9	STAGING AREA	15+93.79	RT	TO	16+13.67	RT													
TC-26	9	STAGING AREA	14+63.71	RT	TO	14+68.64	RT													
TC-27	9	STAGING AREA	14+60.78	RT																
TC-28	9	STAGING AREA	14+75.57	RT																
TC-29	9	STAGING AREA	13+74.51	RT	TO	15+86.96	RT													
TC-30	9	STAGING AREA	17+48.97	RT															485	
TC-31	9	STAGING AREA	16+24.77	LT															1	
TC-32	9	STAGING AREA	16+24.77	RT															1	
TC-33	9	STAGING AREA	14+94.20	RT															1	
TC-34	9	STAGING AREA	15+05.58	RT															1	
TC-35	9	STAGING AREA	14+68.58	LT															1	
TC-36	9	STAGING AREA	14+68.58	RT															1	
TC-37	9	STAGING AREA	15+00.00	RT	TO	15+12.00	RT												12	
TOTALS CARRIED TO GENERAL SUMMARY							10.5	1	4	1	1	0.15	237	59	474	485	17	164	3	

**STAGING AREA TRAFFIC CONTROL SUBSUMMARY**

CALCULATED  
HBZ  
CHECKED  
AKA

**HOL-COUNTY TRAIL  
PHASE 5C2**

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STATION RANGE	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	206	301	304	304	407	441	441	452	608
						EXCAVATION OF SUBGRADE CY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP SY	ASPHALT CONCRETE BASE, PG64-22, (449), 4" CY	AGGREGATE BASE, 3" CY	AGGREGATE BASE, 6" CY	TACK COAT (0.08 GAL/SY) GAL	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, 1.25" CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), 1.75" CY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP SY	4" CONCRETE WALK SF
<b>BUGGY PULL-IN AREA</b>															
5+00.00 TO 13+55.59	LT & RT														
					2937.58	1142.39	2937.58	326.40		489.60	470.01	102.00	142.80		
			1.00	52.78				5.86		8.80					
			3.00	158.61		61.68	158.61								
<b>SIDEWALK TO PAVILION</b>															
9+22.46 TO 9+25.90	LT														
			6.00	48.49		18.86	48.49		4.04						436.38
			3.00	25.79		10.03	25.79								
<b>KILLBUCK STAGING AREA</b>															
13+55.59 TO 16+43.24	LT & RT	287.65													
			24.00	767.07		298.30	767.07	85.23		127.84	122.73	26.63	37.29		
			1.00	31.96				3.55		5.33					
			3.00	95.88		37.29	95.88								
16+43.24 TO 17+01.11	LT & RT	57.87													
CURVE WIDENING			27.45	176.50		68.64	176.50	19.61		29.42	28.24	6.13	8.58		
			1.00	6.43				0.71		1.07					
			3.00	19.29		7.50	19.29								
<b>ADD INTERSECTION STAGING AREA &amp; C.R. 622</b>															
17+01.11 TO 17+66.00	LT & RT	64.89													
			48.24	347.83		135.27	347.83	38.65		57.97	55.65	12.08	16.91		
			1.00	9.90				1.10		1.65					
			3.00	29.45		11.45	29.45								
<b>PARKING LOT</b>															
	RT				1336.11	519.60	1336.11	148.46		222.69	213.78	46.39	64.95		
			1.00	37.11				4.12		6.19					
			3.00	111.47		43.35	111.47								
<b>FIELD DRIVE DR-1</b>															
9+38.32 TO 9+38.88	LT				32.52	12.65	32.52		5.42					32.52	
<b>FIELD DRIVE DR-2</b>															
12+05.00 TO 12+35.00	LT				34.04	13.24	34.04		5.67					34.04	
<b>FIELD DRIVE DR-3</b>															
14+56.39 TO 14+66.39	LT				31.38	12.20	31.38		5.23					31.38	
<b>FIELD DRIVE DR-4</b>															
14+56.39 TO 14+66.39	RT				42.78	16.64	42.78		7.13					42.78	
<b>SUBTOTALS</b>						2409.09	6194.79	633.70	4.04	974.00	890.42	193.23	270.53	140.72	436.38
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						2410	6195	634		979	891	194	271	141	437

**HOL-COUNTY TRAIL PHASE 5C2**

**STAGING AREA PAVEMENT CALCULATIONS**

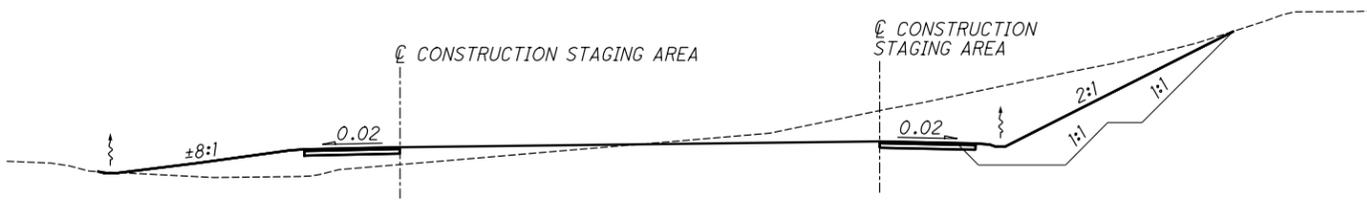
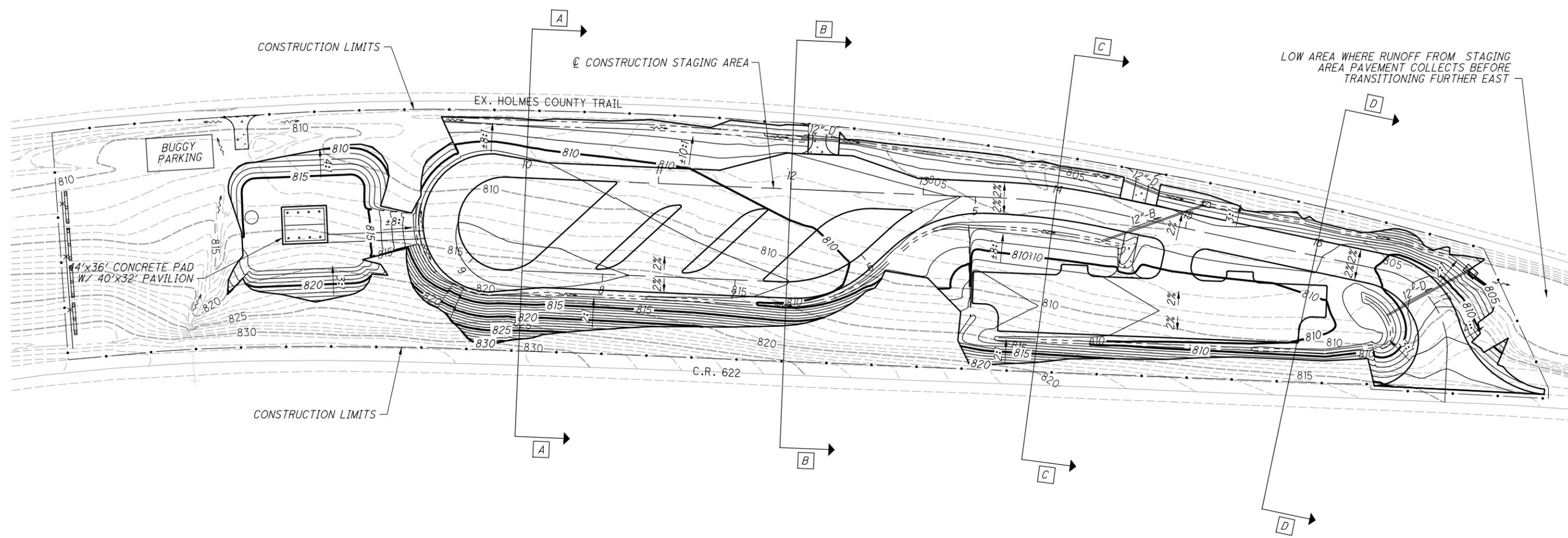
CALCULATED  
HBZ  
CHECKED  
AKA

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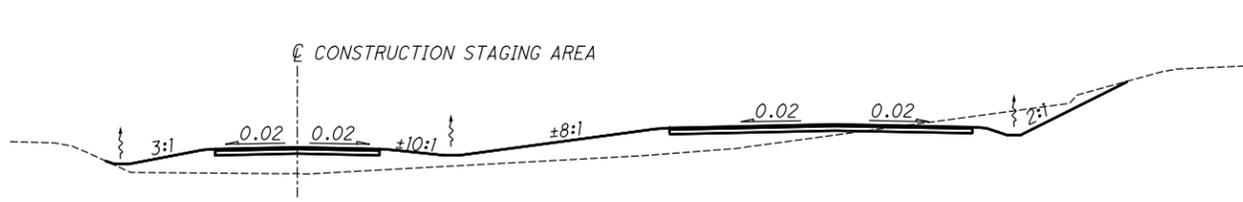


CALCULATED AKB CHECKED MS

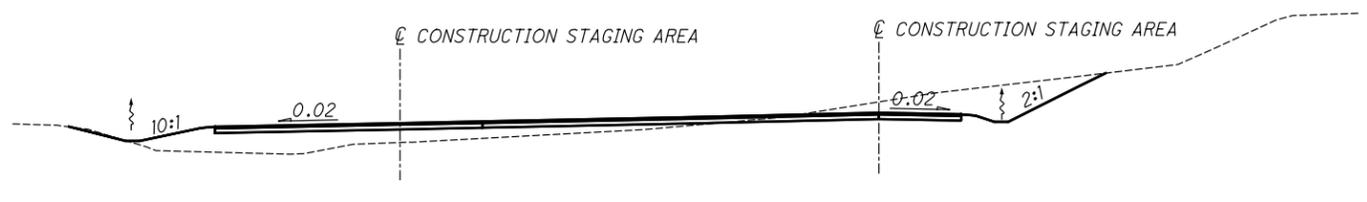
HOL-COUNTY TRAIL  
PHASE 5C2  
GRADING PLAN  
KILLBUCK STAGING AREA



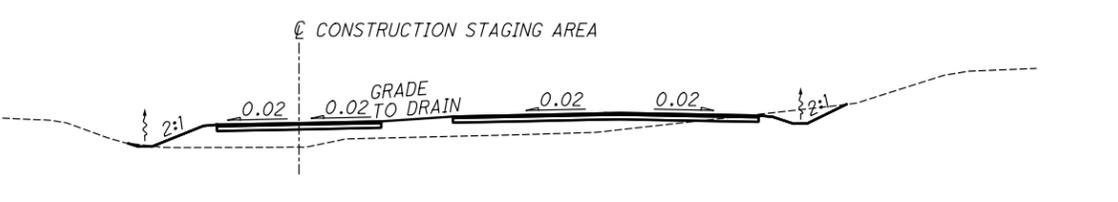
SECTION A-A  
STA. 10+00



SECTION C-C  
STA. 14+00



SECTION B-B  
STA. 12+00



SECTION D-D  
STA. 16+00



0 25 50  
 12.5  
 HORIZONTAL  
 SCALE IN FEET

CALCULATED  
 MS  
 CHECKED  
 TML

**KILLBUCK STAGING AREA PLAN**  
**STA. 5+00 TO STA. 13+75**

**HOL-COUNTY TRAIL**  
**PHASE 5C2**

KILLBUCK WATERSHED LAND TRUST  
 O.R. 193, PG. 2227  
 P.B. 19, PG. 887  
 27.151 AC.  
 PAR. 08-00584.001

THE BOARD OF COMMISSIONERS OF  
 THE HOLMES COUNTY PARK DISTRICT  
 O.R. 191, PG. 1347  
 P.B. 15, PG. 157  
 6.353 AC.  
 PAR. 08-00842.000

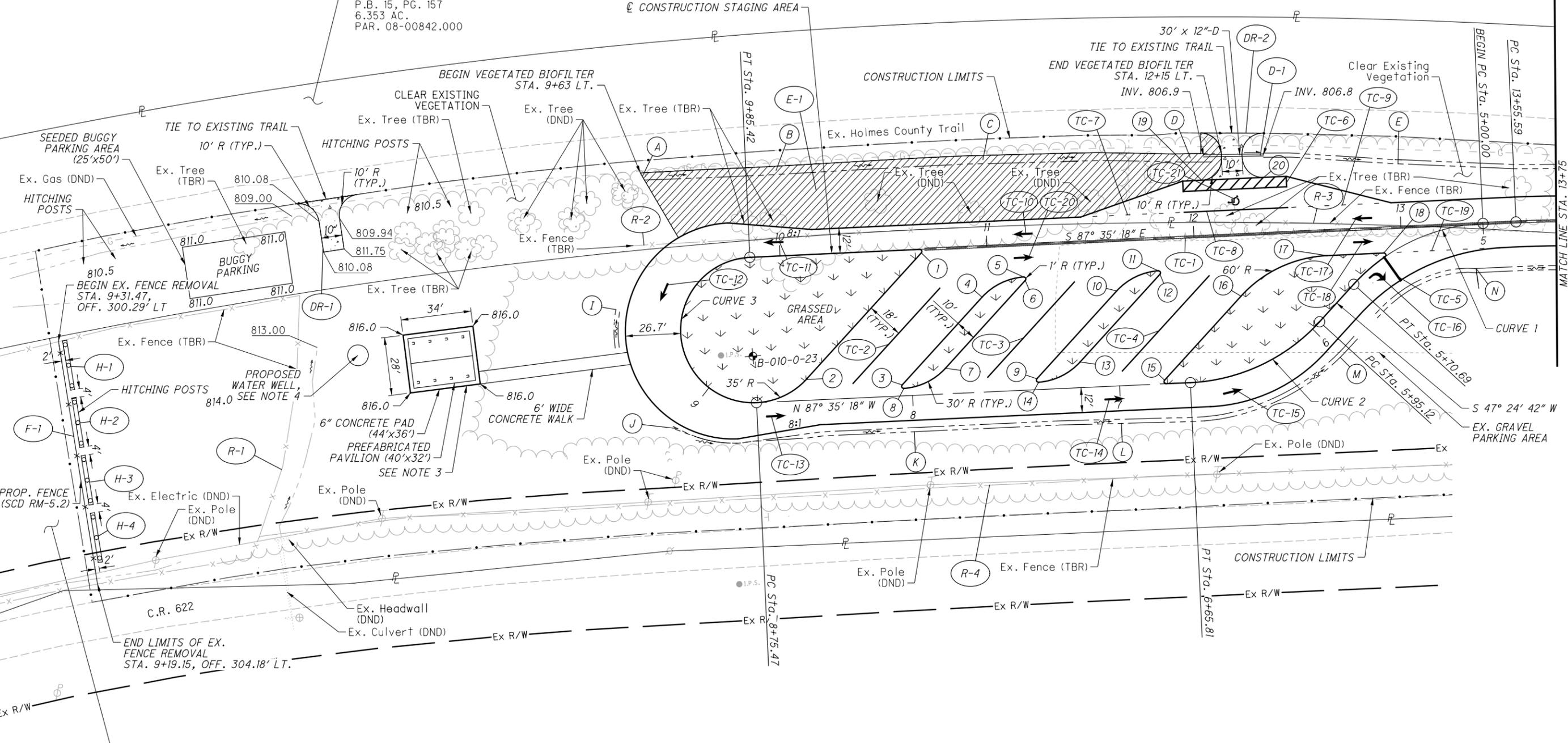
THE BOARD OF COMMISSIONERS OF  
 THE HOLMES COUNTY PARK DISTRICT  
 O.R. 191, PG. 1407  
 P.B. 17, PG. 345  
 6.502 AC.  
 PAR. 08-00588.001

CHIEF KILLBUCK HOLDINGS LLC  
 O.R. 259, PG. 5719  
 P.B. 2, PG. 561  
 76.00 AC.  
 PAR. 08-00585.002

CURVE 1	CURVE 2	CURVE 3
P.I. Sta. 5+37.28	P.I. Sta. 6+32.40	
$\Delta = 45^\circ 00' 00''$ (LT)	$\Delta = 45^\circ 00' 00''$ (RT)	$\Delta = 180^\circ 00' 00''$ (RT)
$D_c = 63^\circ 39' 43''$	$D_c = 63^\circ 39' 43''$	$D_c = 163^\circ 42' 08''$
$R = 90.00'$	$R = 90.00'$	$R = 35.00'$
$T = 37.28'$	$T = 37.28'$	$T = \text{Undefined}$
$L = 70.69'$	$L = 70.69'$	$L = 109.96'$
$E = 7.42'$	$E = 7.42'$	$E = \text{Undefined}$
$C = 68.88'$	$C = 68.88'$	$C = 70.00'$
C.B. = S 69° 54' 42" W	C.B. = S 69° 54' 42" W	C.B. = N 2° 24' 42" E

- NOTES:**
- SEE SHEET 10 FOR TYPICAL SECTIONS AND PROFILE.
  - SEE SHEET 9 FOR STAGING AREA GEOMETRIC DATA.
  - CONCRETE PAD AND PAVILION ARE QUANTIFIED AS ITEM SPECIAL - SHELTER HOUSE. SEE SHEET 15 FOR GENERAL NOTE.
  - WATER WELL IS QUANTIFIED AS ITEM SPECIAL - WATER WELL. SEE SHEET 15 FOR GENERAL NOTE.

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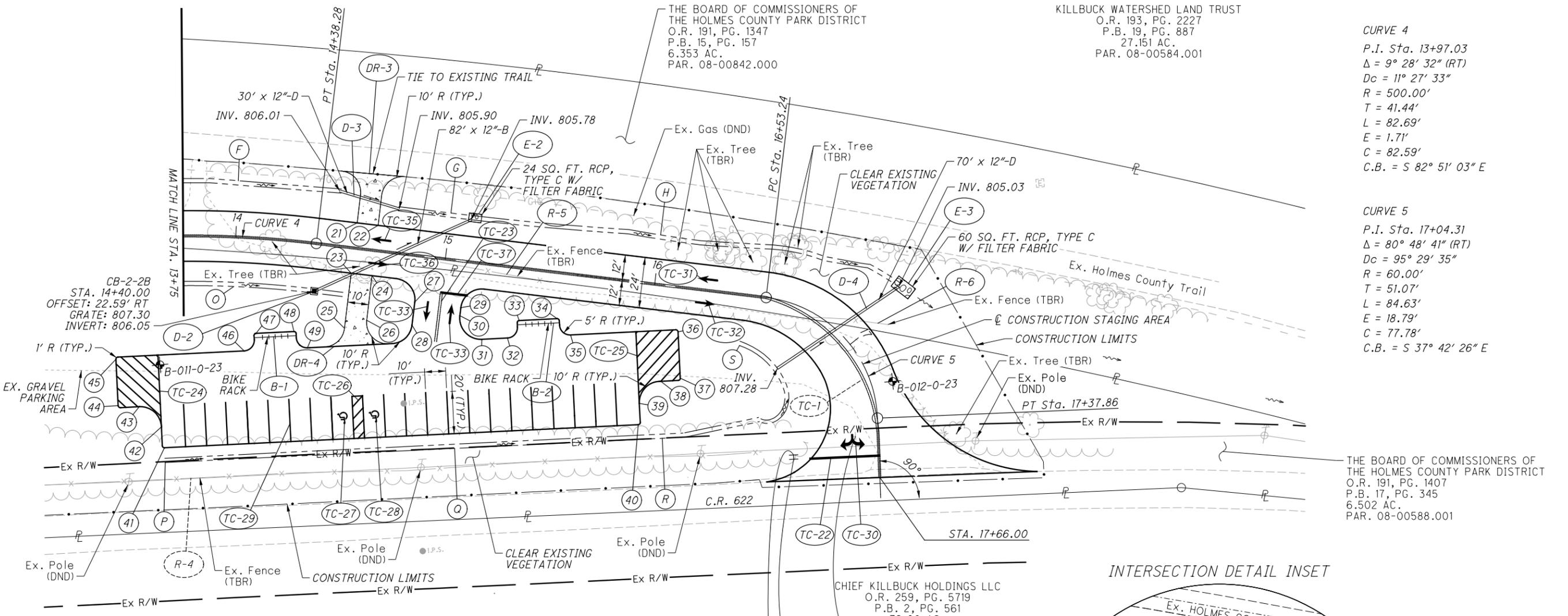
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CALCULATED  
MS  
CHECKED  
TML

0 25 50  
12.5  
HORIZONTAL  
SCALE IN FEET

KILLBUCK STAGING AREA PLAN  
STA. 13+75 TO STA. 17+66

HOL-COUNTY TRAIL  
PHASE 5C2

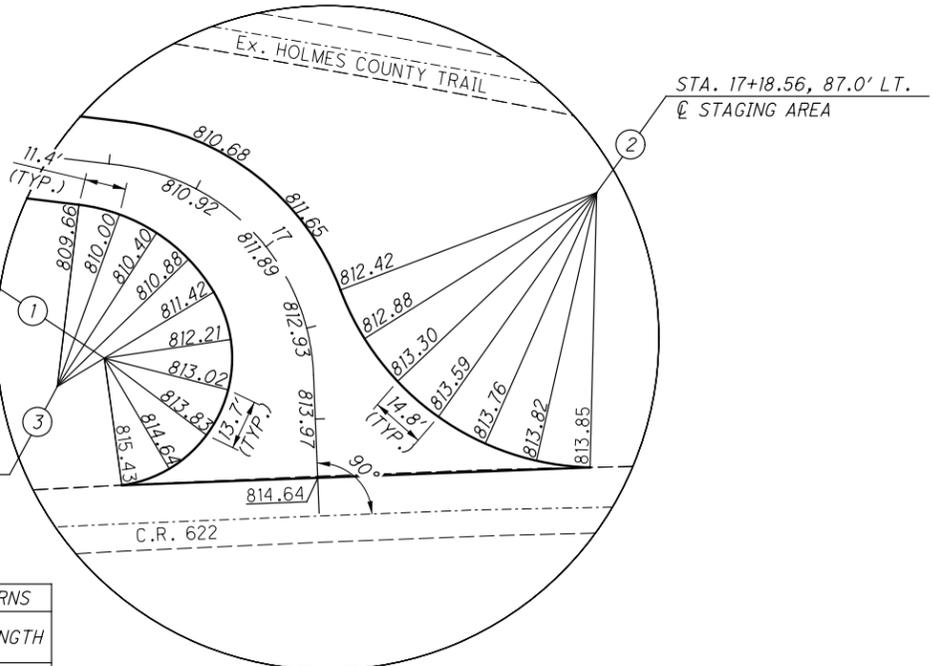


STAGING AREA GEOMETRIC POINTS									
REF.	STATION	OFFSET	ELEV.	REF.	STATION	OFFSET	ELEV.		
1	10+68.21	1.71'	RT	810.79	26	14+66.39	33.24'	RT	808.85
2	8+51.02	9.95'	RT	812.11	27	14+88.00	22.00'	RT	809.18
3	8+04.81	5.25'	RT	812.04	28	14+88.00	32.97'	RT	809.95
4	10+96.51	24.32'	RT	810.96	29	15+10.00	22.00'	RT	809.15
5	11+16.99	15.54'	RT	810.61	30	15+10.00	25.85'	RT	809.46
6	11+17.72	17.25'	RT	810.64	31	15+21.67	35.71'	RT	810.30
7	7+83.59	12.32'	RT	811.77	32	15+33.65	33.67'	RT	810.23
8	8+04.08	3.54'	RT	812.07	33	15+38.27	24.78'	RT	809.51
9	7+39.75	5.25'	RT	811.57	34	15+55.97	21.77'	RT	809.39
10	11+61.56	24.32'	RT	810.37	35	15+63.23	28.66'	RT	810.06
11	11+82.05	15.54'	RT	810.01	36	16+13.68	21.12'	RT	809.79
12	11+82.78	17.25'	RT	810.03	37	16+17.35	42.81'	RT	810.23
13	7+18.54	12.32'	RT	811.24	38	16+08.34	45.38'	RT	810.30
14	7+39.02	3.54'	RT	811.60	39	15+99.47	57.00'	RT	810.16
15	6+78.25	1.71'	RT	811.14	40	16+00.16	67.02'	RT	809.97
16	12+21.37	29.57'	RT	809.99	41	13+63.03	104.64'	RT	807.81
17	12+63.79	12.00'	RT	809.48	42	13+61.6	95.02'	RT	812.12
18	12+91.14	12.00'	RT	809.36	43	13+50.49	86.76'	RT	812.43
19	12+05.00	27.00'	LT	808.97	44	13+40.49	87.45'	RT	812.52
20	12+35.00	27.00'	LT	808.83	45	13+40.43	65.76'	RT	812.08
21	14+56.39	12.00'	LT	808.13	46	14+07.03	54.57'	RT	811.39
22	14+66.39	12.00'	LT	808.09	47	14+12.67	45.68'	RT	810.35
23	14+56.39	12.00'	RT	808.62	48	14+32.22	42.67'	RT	810.10
24	14+66.39	12.00'	RT	808.57	49	14+38.28	49.56'	RT	811.07
25	14+56.39	38.33'	RT	809.11					

STAGING AREA DRAINAGE POINTS	
REF.	ELEV.
A	807.89
B	807.65
C	807.29
D	806.92
E	806.56
F	806.19
G	805.81
H	805.45
I	810.76
J	811.49
K	811.21
L	810.27
M	808.38
N	807.80
O	807.48
P	810.75
Q	809.31
R	808.75
S	807.50

CURVE DATA FOR RADIUS RETURNS			
CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH
1	35.0'	113° 09' 58"	69.1'
2	75.0'	67° 50' 22"	88.8'
3	50.0'	51° 50' 47"	45.5'

INTERSECTION DETAIL INSET

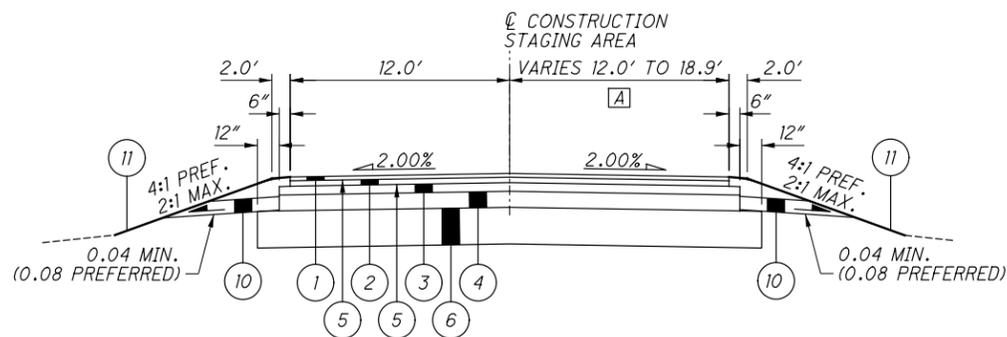


**CURVE 4**  
P.I. Sta. 13+97.03  
 $\Delta = 9^\circ 28' 32''$  (RT)  
 $D_c = 11^\circ 27' 33''$   
 $R = 500.00'$   
 $T = 41.44'$   
 $L = 82.69'$   
 $E = 1.71'$   
 $C = 82.59'$   
C.B. = S  $82^\circ 51' 03''$  E

**CURVE 5**  
P.I. Sta. 17+04.31  
 $\Delta = 80^\circ 48' 41''$  (RT)  
 $D_c = 95^\circ 29' 35''$   
 $R = 60.00'$   
 $T = 51.07'$   
 $L = 84.63'$   
 $E = 18.79'$   
 $C = 77.78'$   
C.B. = S  $37^\circ 42' 26''$  E

**NOTES:**  
1. SEE SHEET 10 FOR TYPICAL SECTIONS AND PROFILE.

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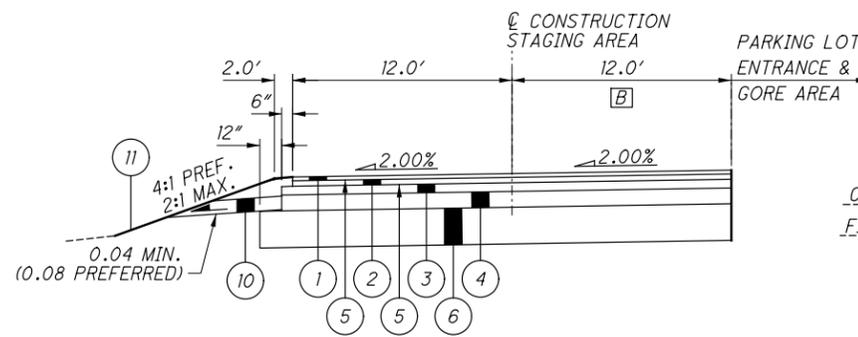


**NORMAL SECTION**  
SECTION APPLIES TO:  
STA. 12+95.75 TO STA. 13+90.00  
STA. 16+43.00 TO STA. 17+66.00

**[A] CURVE WIDENING:**  
12.0' - 18.9' STA. 16+43.24 TO STA. 17+01.11

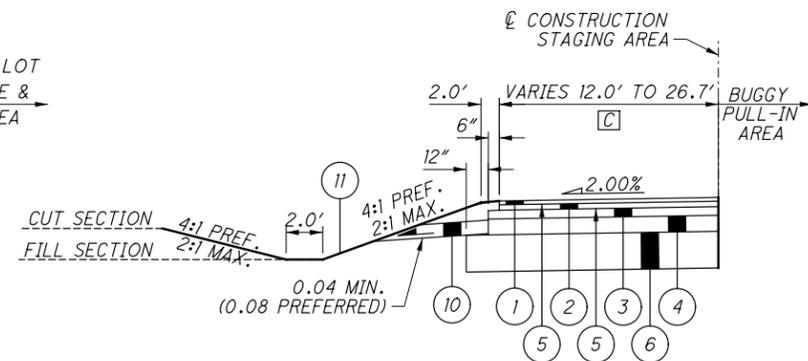
**LEGEND:**

- ① ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- ② ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- ③ ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
- ④ ITEM 304 - 6" AGGREGATE BASE
- ⑤ ITEM 407 - TACK COAT (APPLIED @ 0.08 GAL/SQ. YD.)
- ⑥ ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
- ⑦ ITEM 608 - 4" CONCRETE WALK
- ⑧ ITEM 304 - 3" AGGREGATE BASE
- ⑨ ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
- ⑩ ITEM 605 - AGGREGATE DRAINS
- ⑪ ITEM 659 - SEEDING AND MULCHING, CLASS 4A



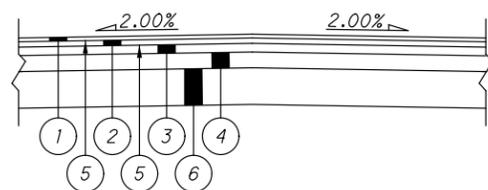
**SUPERELEVATED SECTION**  
SECTION APPLIES TO:  
STA. 13+90.00 TO STA. 16+43.00

**[B] SLOPE TRANSITIONS:**  
-2.00% TO 2.00% FROM STA. 13+90.00 TO STA. 14+54.80  
2.00% FROM STA. 14+54.80 TO STA. 15+78.20  
2.00% TO -2.00% FROM STA. 15+78.20 TO STA. 16+43.00

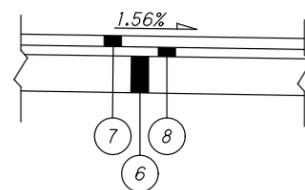


**NORMAL SECTION**  
SECTION APPLIES TO:  
STA. 5+51.00 TO STA. 12+95.78

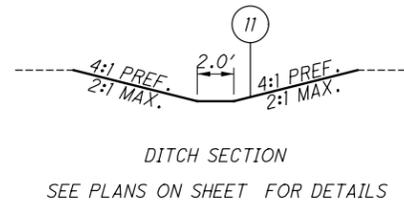
**[C] TAPER:**  
12.0' - 17.9' STA. 8+45.14 TO STA. 8+81.90  
**CURVE WIDENING:**  
17.9' - 26.7' STA. 8+81.90 TO STA. 9+30.44  
26.7' - 17.9' STA. 9+30.44 TO STA. 9+78.99  
**TAPER:**  
17.9' - 12.0' STA. 9+78.99 TO STA. 10+15.75



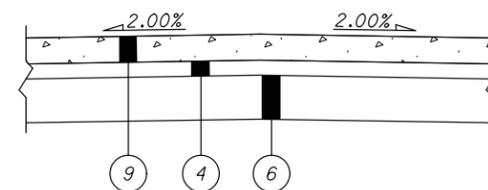
**PARKING LOT SECTION**



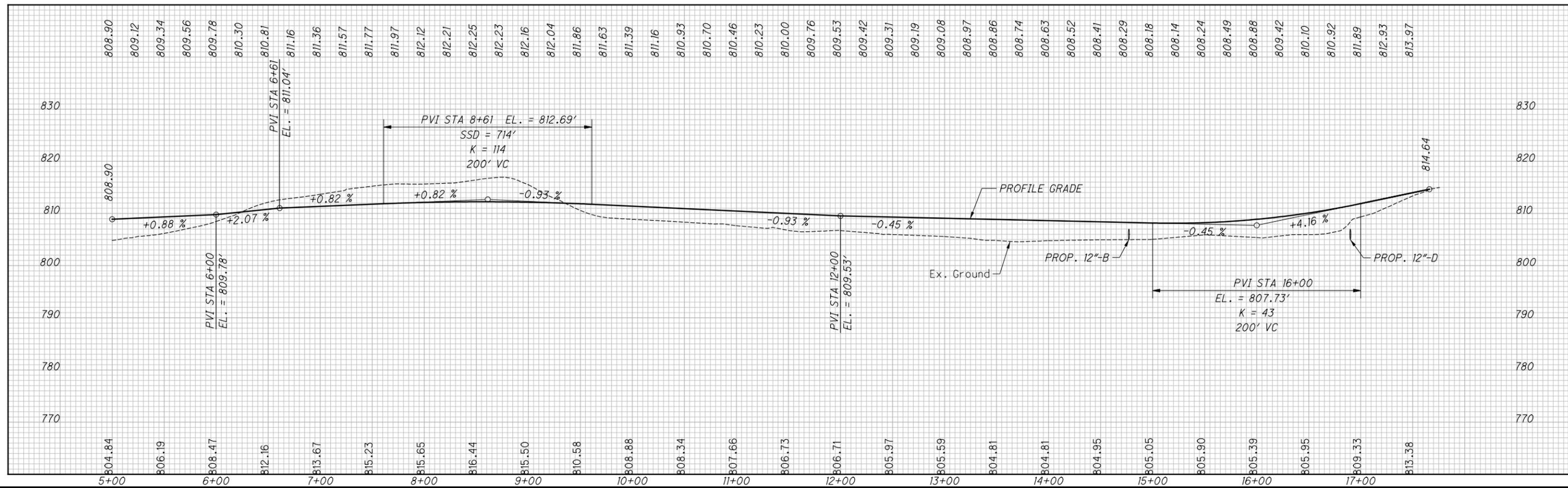
**SIDEWALK SECTION**



**DITCH SECTION**  
SEE PLANS ON SHEET FOR DETAILS

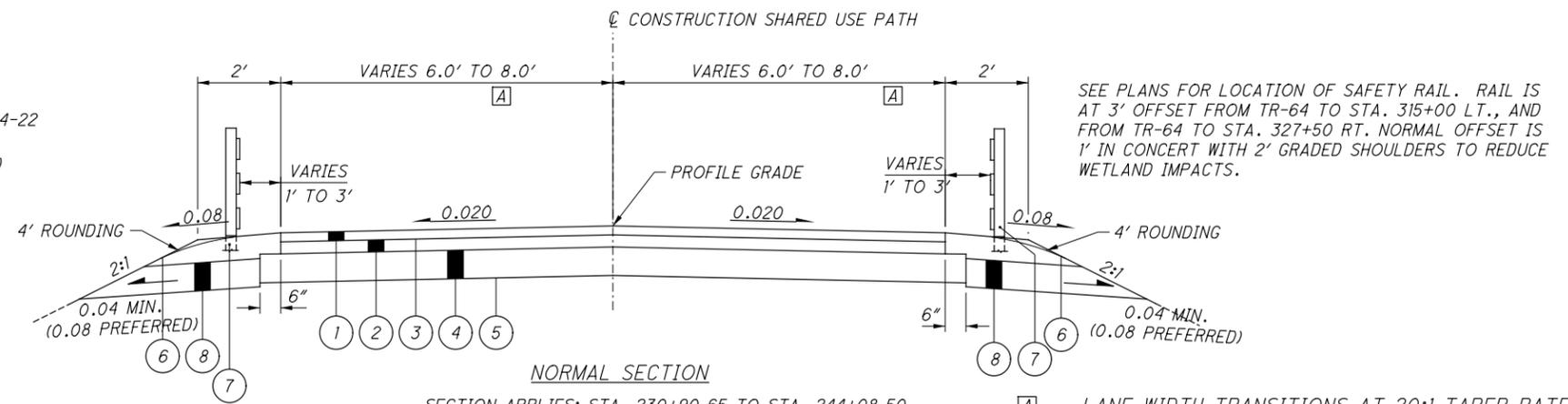


**DRIVE SECTION**



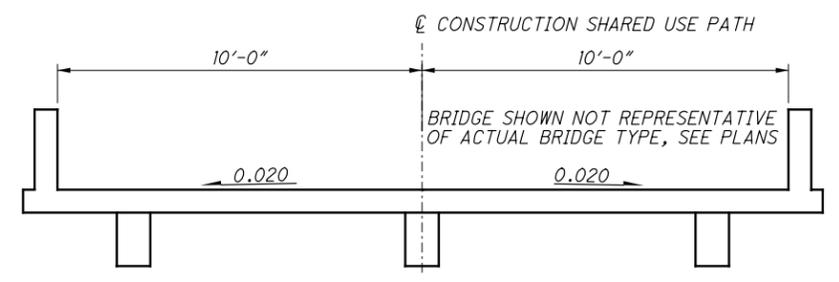
**LEGEND**

- ① ITEM 441 - 1 1/2" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (449), PG64-22
- ② ITEM 441 - 1 3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (449)
- ③ ITEM 407 - TACK COAT, 0.08 GAL/SQ YD
- ④ ITEM 304 - 6" AGGREGATE BASE
- ⑤ ITEM 204 - SUBGRADE COMPACTION  
ITEM 204 - PROOF ROLLING
- ⑥ ITEM 659 - SEEDING AND MULCHING, CLASS 4A
- ⑦ ITEM 607 - FENCE, MISC.: WOOD FENCE  
(SAFETY RAIL PER SCD RM-5.2)
- ⑧ ITEM 605 - AGGREGATE DRAINS
- ⑨ ITEM 304 - 8" AGGREGATE BASE
- ⑩ ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP



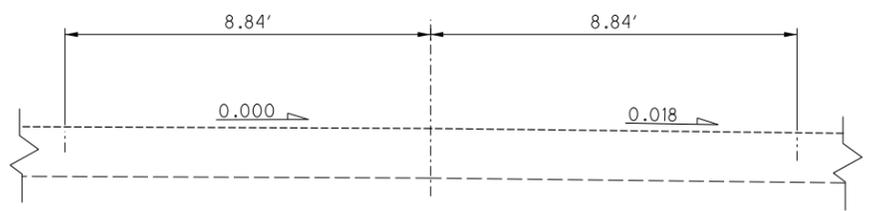
**NORMAL SECTION**  
SECTION APPLIES: STA. 230+90.65 TO STA. 244+08.50  
STA. 244+71.50 TO STA. 262+96.50  
STA. 263+44.50 TO STA. 274+74.00  
STA. 275+22.00 TO STA. 298+23.38  
STA. 298+42.05 TO STA. 354+26.90

**LANE WIDTH TRANSITIONS AT 20:1 TAPER RATE**  
NARROWS FROM 8.0' TO 6.0' BETWEEN STA. 256+10.00 TO 256+50.00 RT.  
WIDENS FROM 6.0' TO 8.0' BETWEEN STA. 256+90.00 TO 257+30.00 RT.  
NARROWS FROM 8.0' TO 6.0' BETWEEN STA. 297+60.00 TO 298+00.00 LT. & RT.  
WIDENS FROM 6.0' TO 8.0' BETWEEN STA. 300+60.00 TO 301+00.00 LT. & RT.  
NARROWS FROM 8.0' TO 6.0' BETWEEN STA. 340+30.00 TO 340+70.00 LT.  
WIDENS FROM 6.0' TO 7.0' BETWEEN STA. 343+00.00 TO 343+20.00 LT.  
NARROWS FROM 7.0' TO 6.0' BETWEEN STA. 346+00.00 TO 346+20.00 LT.  
WIDENS FROM 6.0' TO 7.0' BETWEEN STA. 346+80.00 TO 347+00.00 LT.  
WIDENS FROM 7.0' TO 8.0' BETWEEN STA. 349+00.00 TO 349+20.00 LT.

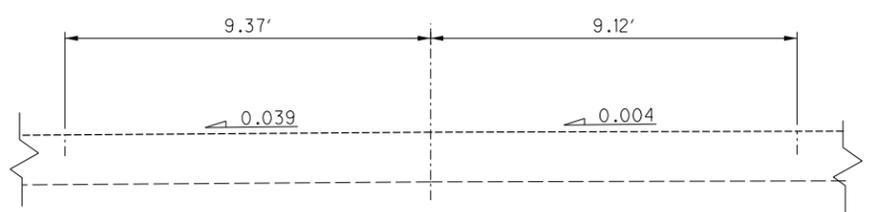


**BRIDGE CROSSINGS: (SEE BRIDGE PLANS FOR DETAILS)**  
B8 - STA. 244+08.50 TO STA. 244+71.50  
B9 - STA. 262+96.50 TO STA. 263+44.50  
B10 - STA. 274+74.00 TO STA. 275+22.00

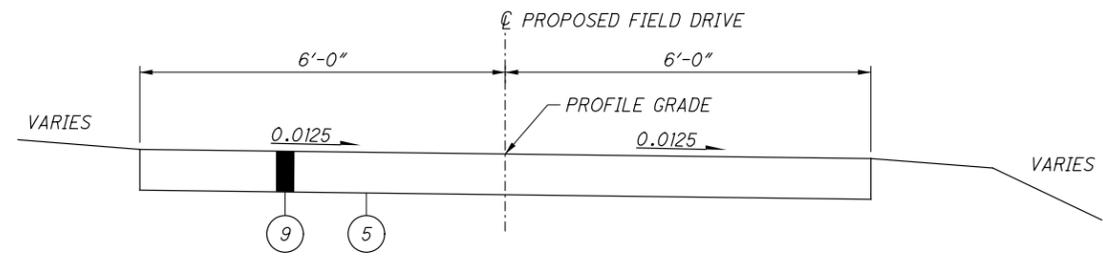
BRIDGE RAIL MAY BE AT GREATER/LESSER OFFSET THAN THE SAFETY RAIL ON THE PATH. CONTRACTOR TO TAPER THE RAIL AT 20:1 TRANSITION RATE UNLESS OTHERWISE SHOWN ON THE PLANS.



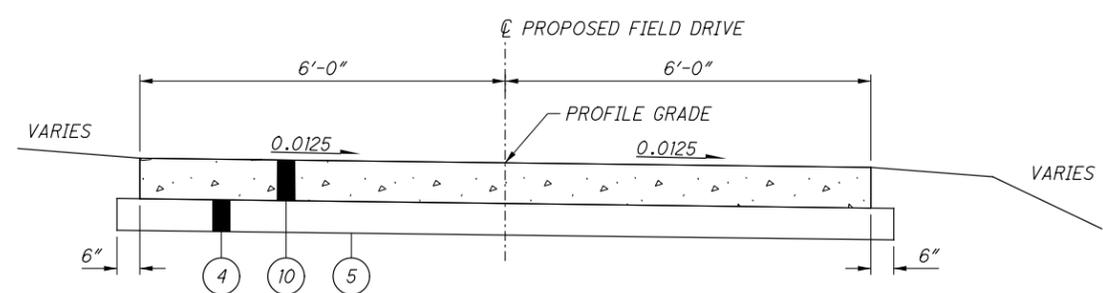
**ADJOINING SECTION - E/P SR-520**  
SECTION APPLIES: STA. 230+90.65  
(SKEW: 23° 12' 40" R.F.)



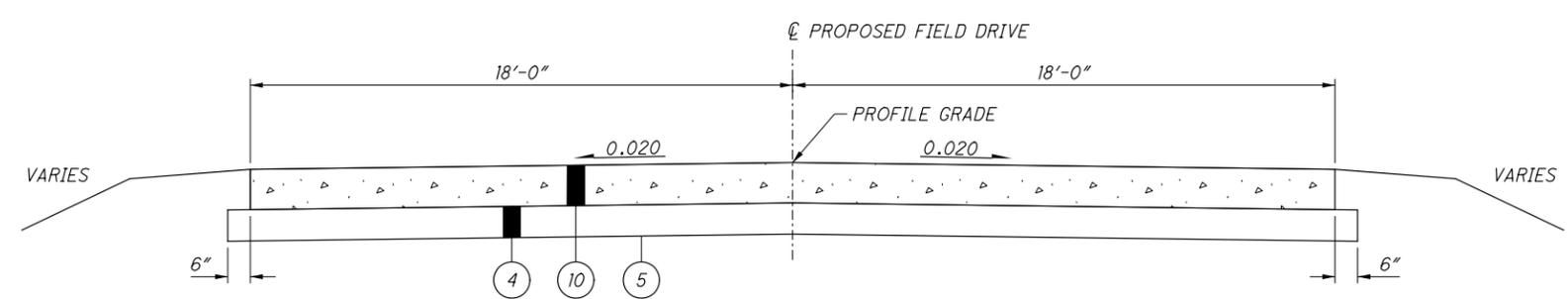
**ADJOINING SECTION - E/P SR-60**  
SECTION APPLIES: STA. 354+26.90  
(SKEW: 30° 29' 16" R.F.)



**DRIVE SECTION (AGGREGATE) - VICINITY TR-64**  
SECTION APPLIES: STA. 10+17.92 TO STA. 11+65.06  
(INDEPENDENT ALIGNMENT VICINITY TR-64) - SEE SHEET 87



**DRIVE SECTION (CONCRETE) - VICINITY TR-64**  
SECTION APPLIES: STA. 10+06.69 TO STA. 10+17.92  
(INDEPENDENT ALIGNMENT VICINITY TR-64) - SEE SHEET 87



**DRIVE SECTION (CONCRETE) - SHARED USE PATH**  
SECTION APPLIES: STA. 280+06.91 TO STA. 280+22.09  
STA. 307+04.22 TO STA. 307+20.78  
STA. 314+96.00 TO STA. 315+14.00

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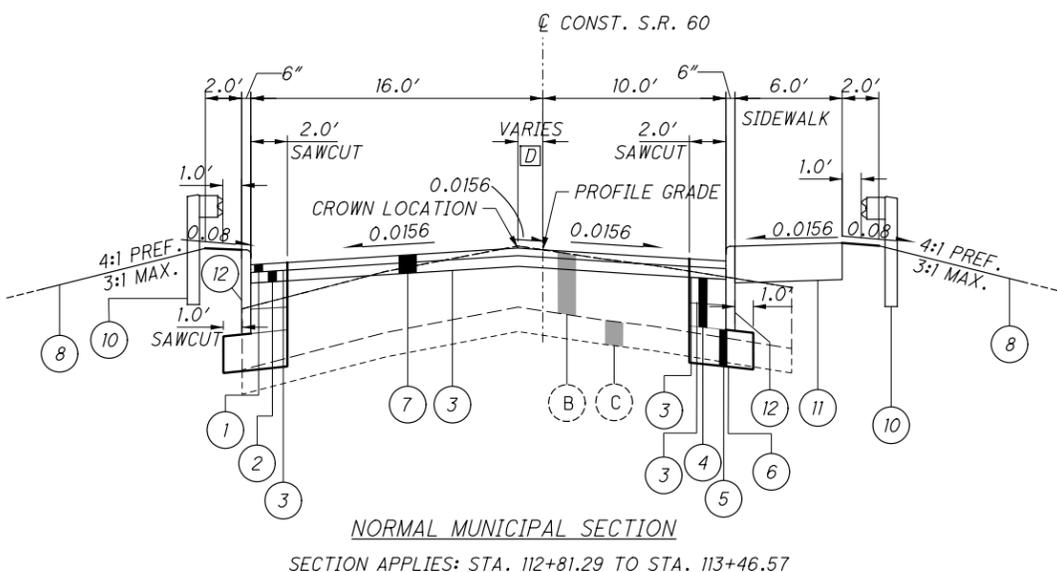
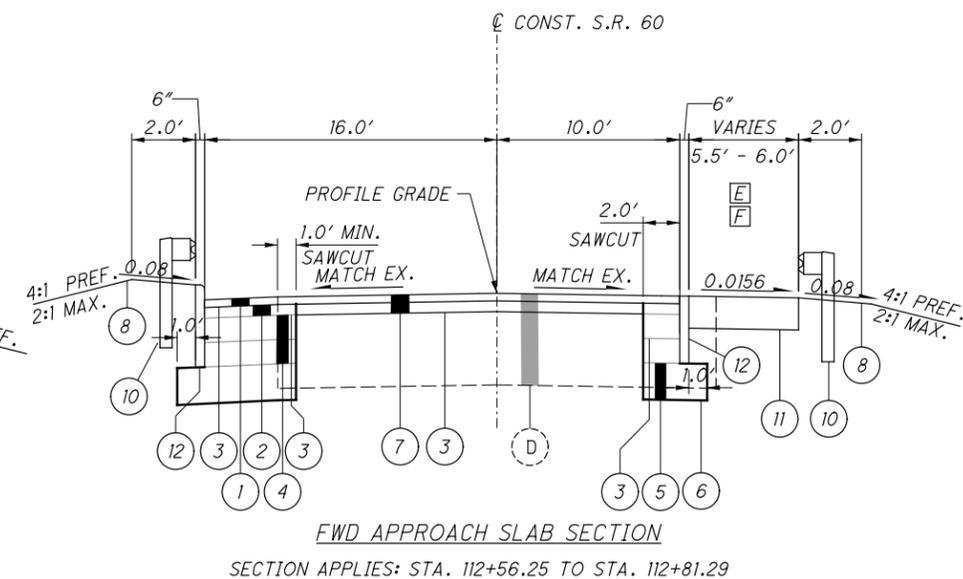
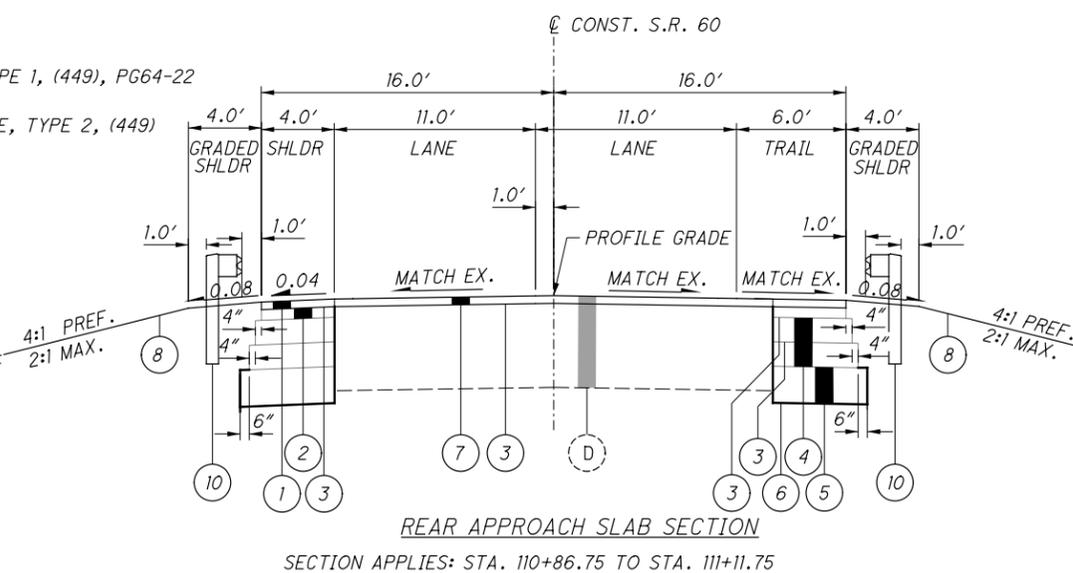
**LEGEND**

- ① ITEM 441 - 1 1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (449), PG64-22
- ② ITEM 441 - 1 3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (449)
- ③ ITEM 407 - TACK COAT, 0.08 GAL/SQ YD
- ④ ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-22, (449)  
(PLACE IN TWO EQUAL 4" LIFTS)
- ⑤ ITEM 304 - 6" AGGREGATE BASE
- ⑥ ITEM 204 - SUBGRADE COMPACTION  
ITEM 204 - PROOF ROLLING
- ⑦ ITEM 254 - 3" MAX PAVEMENT PLANING, ASPHALT CONCRETE
- ⑧ ITEM 659 - SEEDING AND MULCHING, CLASS 4A
- ⑨ ITEM 605 - AGGREGATE DRAINS
- ⑩ ITEM 606 - GUARDRAIL, TYPE MGS
- ⑪ ITEM 608 - 4" CONCRETE WALK
- ⑫ ITEM 609 - CURB, TYPE 6

- Ⓐ 3"-6" ± ASPHALT CONCRETE
- Ⓑ 10"-12" ± ASPHALT CONCRETE
- Ⓒ 4"-6" ± AGGREGATE BASE
- Ⓓ EX. APPROACH SLAB  
1.25"-3" ± ASPHALT OVERLAY ON  
13" REINFORCED CONCRETE CLASS C

**7 CROWN OF PAVEMENT TRANSITION**

CROWN LOCATION VARIES TO MATCH THE EXISTING CROWN LOCATION. INSTEAD OF MATCHING EXISTING SLOPES, SLOPE IS CORRECTED TO 0.0156 FROM THE PROFILE GRADE. MINIMUM WIDTH FROM CENTERLINE IS 0.0' AND MAXIMUM WIDTH IS 2.8'.



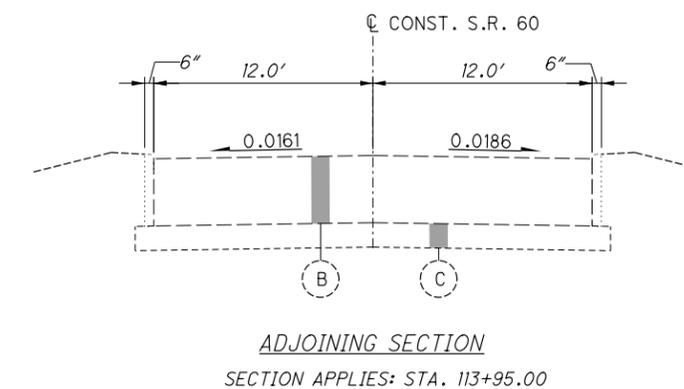
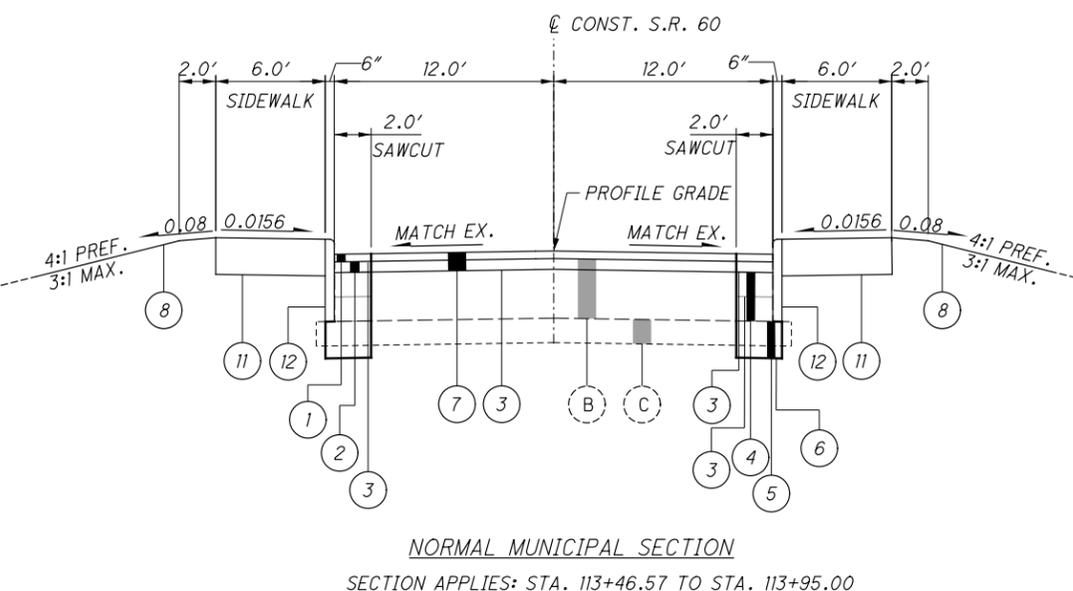
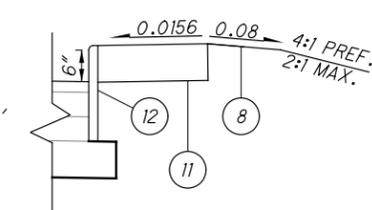
**E SIDEWALK WIDTH TRANSITIONS**

SIDEWALK WIDTH IS 5.5' FROM STA. 112+56.25 TO STA. 112+65.00. SIDEWALK WIDTH WIDENS FROM 5.5' AT STA. 112+65.00 TO 6.0' AT STA. 112+75.00. SIDEWALK WIDTH IS 6.0' ELSEWHERE.

**F CURB HEIGHT AND SLOPE TRANSITIONS**

CURB HEIGHT IS 0.0' FROM STA. 112+56.25 TO 112+65.00. CURB HEIGHT TRANSITIONS FROM 0.0' AT 112+65.00 TO 6" AT 112+75.00. CURB HEIGHT IS 6" ELSEWHERE.

SIDEWALK SLOPE IS 1.56% TO THE OUTSIDE FROM STA. 112+56.25 TO STA. 112+65.00. SIDEWALK SLOPE TRANSITIONS FROM 1.56% TO THE OUTSIDE AT STA. 112+65.00 TO 1.56% TOWARDS THE PAVEMENT AT STA. 112+75.00. SLOPE IS TOWARD THE PAVEMENT ELSEWHERE.



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**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

**POWER**

AMERICAN ELECTRIC POWER  
301 CLEVELAND AVE SW  
CANTON, OHIO 44701  
ATTN: CLARKE SAUNDERS  
PHONE: (740)-985-3054  
EMAIL: CMSAUNDERS@AEP.COM

**GAS**

OHIO CUMBERLAND GAS  
P.O. BOX 230  
MT. VERNON, OHIO 43050  
ATTN: MARK RAMSER  
PHONE: (740)-392-2941  
EMAIL: MARKRAMSER@HOTMAIL.COM

ASPIRE ENERGY OF OHIO  
300 TRACY BRIDGE ROAD  
ORRVILLE, OHIO 44667  
ATTN: BENJAMIN HARVEY  
PHONE: (330)-682-1636  
EMAIL: BHARVEY@CHPK.COM

**OIL PRODUCTION**

CAPSTONE OIL PRODUCING  
6239 STATE ROUTE 514  
LAKEVILLE, OH 44638  
ATTN: BRANDON WALLACE  
PHONE: (330)-231-4204  
EMAIL: CAPSTONEOILPRODUCING@GMAIL.COM

**WATER/SEWER**

VILLAGE OF KILLBUCK WATER/SEWER  
451 S RAILROAD STREET  
KILLBUCK, OHIO 44637  
ATTN: MIKE JUDSON  
PHONE: (330)-276-2745  
EMAIL: KILLBUCKWWTP@EMBARQMAIL.COM

**TELECOMMUNICATIONS**

BRIGHTSPEED  
2025 AKRON ROAD  
WOOSTER, OHIO 44691  
ATTN: JEFFREY SCHOONOVER  
PHONE: (980)-376-1554  
EMAIL: JEFFREY.L.SCHOONOVER@BRIGHTSPEED.COM

**EVERSTREAM**

4000 EMBASSY PARKWAY, STE 105  
AKRON, OH 44333  
ATTN: SUBHI SALEH  
PHONE: (380)-204-5464  
EMAIL: SSALEH@EVERSTREAM.NET

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**PROPERTY OWNER COORDINATION**

CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNERS TO MAINTAIN THEIR OPERATIONS. THIS INCLUDES USE OF EXISTING CATTLE CROSSINGS. MAINTAIN CONTAINMENT OF EXISTING PROPERTY FENCES WHICH ARE USED FOR CATTLE THROUGH THE DURATION OF THE PROJECT. THIS MAY INCLUDE TEMPORARY FENCING. FOR ANY INTERRUPTIONS IN CONTAINMENT, COORDINATE WITH PROPERTY OWNERS AT LEAST 7 DAYS PRIOR TO THE INTERRUPTION.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 3 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**PROJECT CONTROL**

POSITIONING METHOD: GNSS  
MONUMENT TYPE: TYPE B

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID09

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83 (CORS96)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE  
COMBINED SCALE FACTOR: 1.00000000  
ORIGIN OF COORDINATE SYSTEM: N/A

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

**ENDANGERED BAT HABITAT REMOVAL**

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

**DRINKING WATER**

THIS PROJECT IS LOCATED WITHIN A DRINKING WATER PROTECTION AREA. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO THE KILLBUCK WASTEWATER TREATMENT PLANT AT (330) 276-2745. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), CONTACT RICHLAND TOWNSHIP FIRE DEPARTMENT AT (330) 377-5301, OR THE OHIO EPA'S SPILL HOTLINE 1-800-282-9378 FOR CLEANUP OF THE SPILL.

**ROUNDING**

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

**POST CONSTRUCTION STORM WATER TREATMENT**

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

**ENVIRONMENTAL WORK**

BASED ON ENVIRONMENTAL STUDIES WITH TESTING CONDUCTED BY ODOT AND/OR FOR REGULATORY AGENCIES MATERIALS CONTAMINATED WITH PETROLEUM, CONTAMINATED SOILS, AND/OR CONTAMINATED MATERIALS, WILL BE ENCOUNTERED DURING THE EXCAVATIONS FOR CONSTRUCTION ACTIVITIES AT THE SITES LISTED BELOW WITHIN STATIONS 298+49 TO 300+50. THE ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL EXCAVATIONS AT THE AFOREMENTIONED LOCATION SHALL BE PAID FOR UNDER THE ORIGINAL BID ITEMS.

1. TAYLOR TRUST PROPERTY, 10432 TOWNSHIP ROAD 65

ALL EXCAVATED MATERIALS WITHIN THE AFOREMENTIONED LIMITS MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE SUSPECTED CONTAMINATED SOILS ON AN IMPERMEABLE MEMBRANE. THE MEMBRANE WILL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOILS FROM COMING IN CONTACT WITH THE ORIGINAL SOILS. AN IMPERMIABLE WILL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. AS A TEMPORARY STORAGE ALTERNATIVE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED SOILS INTO TRUCKS, OR AS A THIRD ALTERNATIVE, THE CONTRACTOR MAY PLACE THE MATERIAL IN LEAK-PROOF, COVERED CONTAINERS PROVIDED BY THE CONTRACTOR. THE MATERIAL WILL REMAIN ON-SITE UNTIL ANALYTICAL RESULTS ARE RECEIVED BY THE ENGINEER.

THIS MATERIAL WILL BE PROPERLY TESTED (FOR DISPOSAL), TRANSPORTED, AND DISPOSED OF IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE FACILITY.

IF EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR WILL DEWATER, CONTAINERIZE, TEST THE WATER (FOR DISPOSAL) AND DISPOSE OF BY METHODS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL OBTAIN ALL THE REQUIRED PERMITS AND/OR AUTHORIZATIONS NEEDED TO STORE, TRANSPORT, AND DISPOSE OF THE WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

THE CONTACTOR WILL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY HANDLE, STORE, TEST (FOR DISPOSAL), TRANSPORT, AND DISPOSAL; INCLUDING ANY REQUIRED PERMITS, APPROVALS, OR FEES WITHIN THE AFOREMENTIONED LOCATION. PAYMENT FOR THIS WORK WILL BE MADE AT THE CONTRACT PRICE BID PER TON, PER GALLON, PER CUBIC YARD, AND PER UST. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

690E65016 ITEM SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOIL 99 TON  
690E65024 ITEM SPECIAL - WORK INVOLVING REGULATED WATER 1000 GAL

**VEGETATED BIOFILTER**

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER IS TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

**BRIDGE ASBESTOS**

AN ASBESTOS SURVEY FOR BRIDGE/STREAM CROSSINGS AT BRIDGE B9 AND BRIDGE B10 SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. A COPY OF THE ASBESTOS INSPECTION REPORT FOR THE STRUCTURE IS INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS INSPECTION REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ABOVE REGULATORY LIMITS.

DISPOSE ASBESTOS CONTAINING MATERIALS IN A LANDFILL LICENSED BY THE OHIO DEPARTMENT OF HEALTH AND PERMITTED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY - DIVISION OF AIR POLLUTION CONTROL TO ACCEPT ASBESTOS CONTAINING MATERIAL. THE REMOVAL AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIAL MUST COMPLY WITH THE OHIO ADMINISTRATIVE CODE (OAC) REGULATIONS AND THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHA) STANDARD FOR ASBESTOS.

ELECTRONIC SUBMISSION: SUBMIT A COMPLETED ELECTRONIC NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF), APPLICABLE FEES, AND THE ASBESTOS INSPECTION REPORT TO THE OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT USING THE OEPA EBUSINESS CENTER. SUBMIT ONE ELECTRONIC PDF COPY AND ONE HARD COPY OF THE NDRF TO THE ENGINEER. THE ENGINEER WILL PROVIDE ONE COPY TO THE DISTRICT ENVIRONMENTAL STAFF.

BASIS OF PAYMENT: SUBMIT ALL DOCUMENTATION RELATED TO THE SURVEY, ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS TO THE ENGINEER WITHIN TWO WEEKS OF COMPLETION. THE ENGINEER WILL PROVIDE A COPY OF THE DOCUMENTATION TO THE DISTRICT ENVIRONMENTAL STAFF. PAYMENT FOR THIS WORK SHALL BE MADE AT THE BID PRICE OF LUMP SUM. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

690E98400 ITEM SPECIAL - MISC.: WORK INVOLVING ASBESTOS CONTAINING MATERIALS - LUMP SUM

**REVIEW OF DRAINAGE FACILITIES**

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY HOLMES COUNTY PARKS, REPRESENTATIVES OF HOLMES COUNTY PARKS AND THE CONTRACTOR, ALONG WITH STATE AND LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE HOLMES COUNTY PARKS.

ALL NEW CONDUITS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY HOLMES COUNTY PARKS. ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

**VEGETATED FILTER STRIP**

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

CALCULATED MS CHECKED TML  
**GENERAL NOTES**  
**HOL-COUNTY TRAIL PHASE 5C2**  
14  
133

**UNSATURABLE SUBGRADE SOILS**

IT IS ESTIMATED THAT 10% OF THE PROJECT AREA MAY CONTAIN UNSTABLE SUBGRADE. DUE TO THE HIGH VARIABILITY IN THE SUBGRADE, ANY SUBGRADE REPLACEMENT WILL BE AS DIRECTED BY THE ENGINEER.

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE WITHIN 0.2 OF THE PLAN SUBGRADE ELEVATION.
2. COMPACT THE SUBGRADE ELEVATION ACCORDING TO 204.03.
3. PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06. THE ENGINEER WILL IDENTIFY THE LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.
4. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZED BY REPLACING WITH GRANULAR MATERIAL, TYPE C AND GEOTEXTILE FABRIC. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND EDGE OF THE PAVEMENT SURFACE.
5. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.
6. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE FOLLOWING ITEMS AND QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO ADDRESS ANY ENCOUNTERED UNSTABLE SOILS.

ITEM 204 EXCAVATION OF SUBGRADE	818 CY
ITEM 204 GRANULAR MATERIAL, TYPE C	818 CY
ITEM 204 GEOTEXTILE FABRIC	2455 SY

**CHANNEL EMBANKMENTS**

FILL AND SLOPE PORTIONS OF THE EXISTING CHANNEL TO DRAIN AS SHOWN IN THESE PLANS. IN CHANNEL EMBANKMENT AREAS WHICH WILL NOT SUPPORT ANY PORTION OF THE NEW ROAD BED OR STRUCTURAL EMBANKMENTS, THE CONTRACTOR MAY UTILIZE EMBANKMENT METHODS MEETING THE FOLLOWING REQUIREMENTS:

CLEAR ALL WEEDS AND BRUSH IN AREAS WHERE CHANNEL EMBANKMENTS ARE TO BE PLACED. THE REQUIREMENTS FOR MOISTURE, DENSITY CONTROL, BENCHING AND SUITABLE MATERIALS IS WAIVED. PLACE THE MATERIAL IN 8-INCH LOOSE LIFTS. THE ENGINEER MAY INCREASE THE LIFT THICKNESS IN ORDER TO BRIDGE THE SOFT OR WET FOUNDATIONS DEPENDING ON THE STABILITY OF THE FOUNDATION. THE ENGINEER MAY INCREASE THE LIFT THICKNESS UP TO 24 INCHES TO OBTAIN STABILITY AT THE TOP OF THE LIFT.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 203, EMBANKMENT.

**CLEARING AND GRUBBING**

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING.

**FENCE LENGTHS**

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

**ITEM 611 - GAS VALVE BOX ADJUSTED TO GRADE**

THIS WORK SHALL CONSIST OF ADJUSTING GAS VALVE BOXES TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER. LOCATIONS AND QUANTITIES SHOWN IN PLAN SHEETS.

**ITEM 204 - PROOF ROLLING**

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE OFFICE CALCULATIONS FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 12 HOURS.

**ITEM 607 - FENCE MISC.: WOOD FENCE (SAFETY RAIL PER SCD RM-5.2)**

THIS WORK CONSISTS OF FURNISHING AND ERECTING FENCE PER RM-5.2. CONSTRUCT FENCE IN A MANNER THAT PROVIDES A RIGID, TAUT FENCE CLOSELY CONFORMING TO THE SURFACE OF THE GROUND. EXTRA CARE SHALL BE TAKEN WHEN SPACING POSTS AROUND CULVERTS AND OTHER UNDERGROUND UTILITIES. COSTS OF MOUNTING A POST TO A ITEM 611 CONDUIT IS INCIDENTAL TO ITEM 607 - FENCE, MISC.: WOOD FENCE.

SAFETY FENCING IS PAID FOR AT THE UNIT PRICE BID FOR ITEM 607 - FENCE, MISC.: WOOD FENCE. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE FENCING.

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

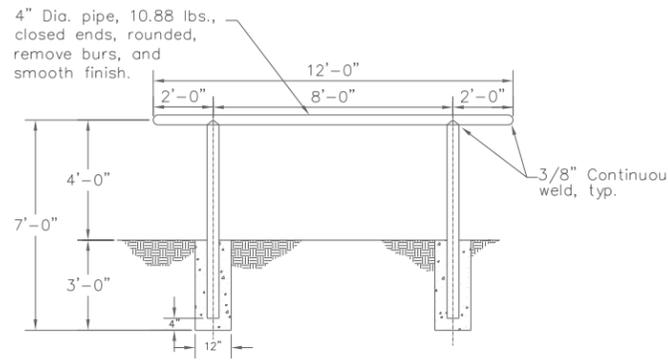
IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

**ITEM SPECIAL - HITCHING POST**

THIS WORK INVOLVES CONSTRUCTING HITCHING POSTS IN LOCATIONS SHOWN IN THE PLANS PER THE STANDARD SET BY USDA FOREST SERVICE. THIS ITEM SHALL BE CONSTRUCTED PER USFS STD RHP1.



SECTION

**ITEM SPECIAL - WATER WELL ASSEMBLY**

THE PROPOSED WATER WELL IN THE STAGING AREA INCLUDES DRILLING, INSTALLATION, DEVELOPMENT, AND TESTING FOR A DRINKING WATER PRODUCTION WELL. THE WATER WELL SHALL BE INSTALLED ACCORDING TO THE AMERICAN WATER MILITARY SERVICES "STANDARD SPECIFICATIONS: DRINKING WATER WELL REQUIREMENTS" SECTION 33 21 00 AS WELL AS THE STATE OF OHIO "TECHNICAL GUIDANCE FOR WELL CONSTRUCTION AND GROUND WATER PROTECTION." THE WELL SHALL BE COMPLETED TO PREVENT SURFACE CONTAMINATION AND PHYSICAL DAMAGE. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT, SUPPLIES, LABOR, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

SUBMIT ALL DOCUMENTATION INCLUDING AS-BUILT DRAWINGS, DESIGN CALCULATIONS, MATERIALS DATA, PERMITS, TEST RESULTS, AND PROPOSED METHOD FOR DISPOSAL OF DEBRIS TO THE ENGINEER.

PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 680, SPECIAL - WATER WELL ASSEMBLY.

ITEM SPECIAL - WATER WELL ASSEMBLY 1 EACH

**ITEM SPECIAL - SHELTER HOUSE**

THIS WORK CONSISTS OF CONSTRUCTING A 6" THICK RECTANGULAR CONCRETE GROUND PAD AND PREFABRICATED PAVILION IN THE STAGING AREA. THE STRUCTURE SIZE SHALL BE SIZED AT 32' x 40' AND CONSIST OF A POWDER COATED STEEL FRAME WITH A 26-GAUGE METAL ROOF OF A COMMERCIALLY AVAILABLE TYPE WITH 4:12 ROOF PITCH.

ENGINEERED DRAWINGS FOR THE PREFABRICATED PAVILION IN ACCORDANCE WITH C&MS 501.05 EXCEPT THAT RELEVANT DESIGN STANDARDS MAY INCLUDE ASCE-7, ACI-318, AISC STEEL CONSTRUCTION MANUAL, AND NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION AS APPROPRIATE. ENGINEERED DRAWINGS SHALL BE PROVIDED A MINIMUM OF 30 DAYS PRIOR TO CONSTRUCTION FOR APPROVAL, AND SHALL BE SEALED BY AN ENGINEER REGISTERED IN THE STATE OF OHIO. MINIMUM ROOF LIVE LOAD SHALL BE 30 PSF AND MINIMUM LATERAL WIND LOAD SHALL BE 20 PSF FOR THE DESIGN. MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE INCLUDED AND CONTRACTOR SHALL FOLLOW ALL MANUFACTURER INSTRUCTIONS.

FOUNDATIONS SHALL BE AS INDICATED IN THE MANUFACTURER ENGINEERED DRAWINGS. ADJUST CONCRETE PAD AS NEEDED TO COORDINATE WITH FOUNDATIONS. THE CONCRETE PAD SHALL BE 6 INCHES THICK AND EXTEND 2 FEET BEYOND THE ROOF OVERHANG FOR A MAXIMUM SIZE OF 36' x 44'. CONSTRUCT PAD IN ACCORDANCE WITH C&MS 452.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE THE CONTRACT PRICE BID FOR ITEM SPECIAL - SHELTER HOUSE, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS, NECESSARY TO COMPLETE THE ABOVE WORK. EXCAVATION, EMBANKMENT AND GRADING ARE NOT SEPARATELY SPECIFIED AND ARE INCIDENTAL TO THE WORK PERFORMED.

ITEM SPECIAL - SHELTER HOUSE 1 EACH

**SUBSURFACE UTILITY INVESTIGATION**

PERFORM SUBSURFACE UTILITY INVESTIGATION TO UTILITY QUALITY LEVEL A (TEST HOLES) IN ACCORDANCE WITH THE ODOT SUBSURFACE UTILITY LOCATION SERVICES SPECIFICATIONS. TEST HOLES ARE PRIMARILY INTENDED TO IDENTIFY LOCATIONS OF TELECOMMUNICATIONS (FIBER OPTIN) LINES WHICH MAY VARY IN FIELD.

**SUBSURFACE UTILITY INVESTIGATION (CONT.)**

PAYMENT FOR LEVEL A TEST HOLES SHALL BE MADE AT THE EACH UNIT PRICE AND SHALL INCLUDE ALL EQUIPMENT, LABOR, MATERIALS, MOBILIZATION, AND BACKFILL TO COMPLETE THE WORK AND LOCATE THE UTILITY IN ACCORDANCE WITH SPECIFICATIONS.

LOCATION AND USE OF THIS ITEM SHALL BE AT THE DIRECTION OF THE ENGINEER. THE FOLLOWING QUANTITIES ARE INCLUDED FOR THESE PURPOSES:

ITEM SPECIAL - LEVEL A SUE TEST HOLES 6 EACH

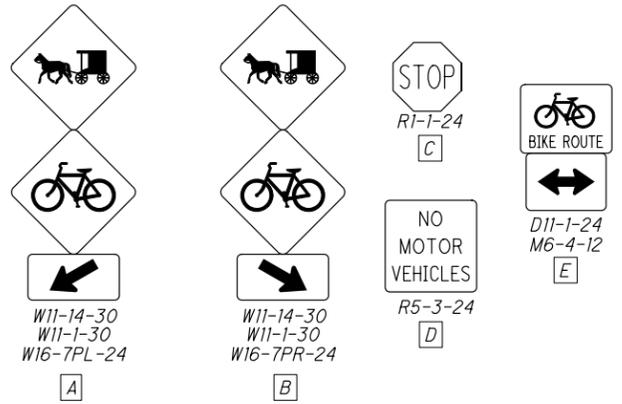
**SIGN PLACEMENT**

SIGN PLACEMENT ON THE SHARED-USE PATH SHALL FOLLOW THE GENERAL GUIDANCE OF STANDARD CONSTRUCTION DRAWING (SCD) TC-42.20 EXCEPT AS FOLLOWS:

LATERAL SIGN CLEARANCE SHALL BE A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF SIX (6) FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF THE PATH. THERE SHALL BE TWO (2) FEET OF CLEAR SPACE BETWEEN EDGE OF PAVED TRAIL AND INNER EDGE OF ANY PROPOSED SIGN.

MOUNTING HEIGHT FOR GROUND-MOUNTED SIGNS SHALL BE A MINIMUM OF FOUR (4) FEET AND A MAXIMUM OF FIVE (5) FEET MEASURED FROM THE BOTTOM EDGE OF THE SIGN TO THE NEAR EDGE OF THE PATH SURFACE.

**SIGN LEGEND**



**ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT, 12" DIAMETER**

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED PER 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

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**ITEM 611 - 36" CONDUIT, TYPE D, AS PER PLAN**

THIS WORK SHALL BE PERFORMED UNDER THE AUSPICES OF THE ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS, CURRENT EDITION, WITH THE ADDITION OF CONCRETE ENCASUREMENT FOR THE ENTIRETY OF THE LENGTH OF THE CONDUIT. CLASS QC 1 CONCRETE OF 6 INCHES THICKNESS FROM THE OUTER DIAMETER OF CONDUIT SHALL BE PROVIDED FOR THE USE OF ENCASUREMENT UNDER DEFICIENT COVER. THIS AS PER PLAN ITEM REFERS TO THE CONDUIT LOCATED AT STA. 298+53.72 UNDERNEATH THE SHARED USE PATH.

**SECTION 4(F)**

ACCESS TO HOLMES COUNTY TRAIL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. CLOSURE OF THE KILLBUCK STAGING AREA SHALL BE LESS THAN THE TIME NEEDED FOR CONSTRUCTION OF THE ENTIRE PROJECT. ALL PARKING AT THE OTHER VARIOUS TRAILHEADS AND TRAIL ACCESS POINTS WITHIN AND ADJACENT TO THE PROJECT SHALL NOT BE IMPACTED.

TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE SECTION 4(F) PROPERTY AND THE PUBLIC. PAYMENT FOR TEMPORARY CONSTRUCTION FENCING SHALL BE INCLUDED IN ITEM 614, MAINTAINING TRAFFIC.

APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF THE HOLMES COUNTY TRAIL OF CONSTRUCTION ACTIVITIES, IF IN PROXIMITY TO RECREATIONAL FACILITIES OR FEATURES.

THE CONTRACTOR SHALL CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND THE HOLMES COUNTY PARK DISTRICT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

**SEEDING AND MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	4484 CU. YD.
659, SEEDING AND MULCHING, CLASS 4A	40399 SQ. YD.
659, REPAIR SEEDING AND MULCHING	2020 SQ. YD.
659, INTER-SEEDING	2020 SQ. YD.
659, COMMERCIAL FERTILIZER	5.64 TON
659, LIME	8.35 ACRES
659, WATER	224 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

**IN-STREAM WORK RESTRICTIONS**

WORK IN THE FOLLOWING SENSITIVE STREAMS IS FURTHER RESTRICTED AS FOLLOWS:

STREAM NAME	WORK RESTRICTION DATES (NO IN-STREAM WORK PERMITTED)
BLACK CREEK	APRIL 15 THROUGH JUNE 30

IN-STREAM WORK HAS BEEN DEFINED AS THE PLACEMENT AND/OR REMOVAL OF FILL MATERIALS (TEMPORARY OR PERMANENT) BELOW ORDINARY HIGH WATER OF A STREAM. EXAMPLES OF FILL INCLUDE (BUT ARE NOT LIMITED TO) BRIDGE PIERS, ABUTMENTS, CULVERTS, ROCK CHANNEL PROTECTION, SCOUR PROTECTION, AND TEMPORARY WORK PADS.

FILLS (SUCH AS TEMPORARY WORK PADS) PLACED WITHIN A STREAM IDENTIFIED IN THE ABOVE TABLE OUTSIDE OF THE WORK RESTRICTION DATES CAN CONTINUE TO BE WORKED FROM DURING THE WORK RESTRICTION DATES, BUT CANNOT BE EXPANDED, REMOVED, OR OTHERWISE MODIFIED (BELOW ORDINARY HIGH WATER) UNTIL ONCE AGAIN OUTSIDE OF THE WORK RESTRICTION DATES.

**EARTHWORK**

EARTHWORK QUANTITIES WERE CALCULATED BASED ON TIGHTER INTERVALS THAN CROSS SECTION SHOWN IN PLANS. TOTALS WERE SUMMED UP BY STATIONS SHOWN ON SHEETS AND SUMMARIZED BELOW:

ITEM 203 - EXCAVATION	14,039 CY
ITEM 203 - EMBANKMENT	15,040 CY

KILLBUCK STAGING AREA			
STATION	ITEM 659 - SEEDING & MULCHING, CLASS 4A (SY) (CADD PLAN VIEW AREA)	ITEM 203 - EXCAVATION (CY)	ITEM 203 - EMBANKMENT (CY)
9+00.00		237	0
9+25.00		98	27
9+50.00		1	88
9+75.00		153	122
10+00.00		279	128
10+25.00		256	123
10+50.00		261	120
10+75.00		252	128
11+00.00		231	132
11+25.00		199	139
11+50.00		169	149
11+75.00		142	147
12+00.00		106	178
12+25.00		62	204
12+50.00		20	182
12+75.00		1	166
13+00.00		0	174
13+25.00		0	221
13+50.00		34	252
13+75.00		63	242
14+00.00		52	232
14+25.00		43	243
14+50.00		37	258
14+75.00		33	232
15+00.00		26	193
15+25.00		18	172
15+50.00		16	159
15+75.00		18	148
16+00.00		17	145
16+25.00		16	130
16+50.00		12	129
16+75.00		22	141
17+00.00		18	93
17+25.00		21	42
17+50.00		22	16
TOTALS TO GEN. SUM.	9,119	2,935	5,255

S.R. 60				
SHEET NO.	TYPE	ITEM 659 - SEEDING & MULCHING, CLASS 4A (SY)	ITEM 203 - EXCAVATION (CY)	ITEM 203 - EMBANKMENT (CY)
81	SHEET TOTALS	87	42	3
82	SHEET TOTALS	190	48	17
83	SHEET TOTALS	161	65	11
84	SHEET TOTALS	153	34	21
85	SHEET TOTALS	124	12	44
86	SHEET TOTALS	9	1	1
TOTALS TO GEN. SUM.		724	202	97

SHARED USE PATH				
SHEET NO.	TYPE	ITEM 659 - SEEDING & MULCHING, CLASS 4A (SY)	ITEM 203 - EXCAVATION (CY)	ITEM 203 - EMBANKMENT (CY)
50	SHEET TOTALS	1,591	260	42
50	SPECIAL BENCHING		30	30
51	SHEET TOTALS	2,683	666	151
52	SHEET TOTALS	672	202	295
53	SHEET TOTALS	1,510	52	497
53	SPECIAL BENCHING		224	229
54	SHEET TOTALS	1,351	102	350
54	SPECIAL BENCHING		324	324
55	SHEET TOTALS	1,046	159	162
55	SPECIAL BENCHING		313	313
56	SHEET TOTALS	1,256	171	181
56	SPECIAL BENCHING		302	302
57	SHEET TOTALS	807	102	96
57	SPECIAL BENCHING		162	162
58	SHEET TOTALS	928	110	251
58	SPECIAL BENCHING		192	192
59	SHEET TOTALS	412	62	132
59	SPECIAL BENCHING		133	133
60	SHEET TOTALS	971	116	148
60	SPECIAL BENCHING		268	268
61	SHEET TOTALS	809	95	95
61	SPECIAL BENCHING		171	171
62	SHEET TOTALS	735	213	49
62	SPECIAL BENCHING		54	54
63	SHEET TOTALS	1,076	306	84
63	SPECIAL BENCHING		242	242
64	SHEET TOTALS	1,025	220	110
64	SPECIAL BENCHING		210	258
65	SHEET TOTALS	1,243	189	251
66	SHEET TOTALS	251	64	6
67	SHEET TOTALS	1332	83	117
68	SHEET TOTALS	993	157	29
69	SHEET TOTALS	744	216	61
69	SPECIAL BENCHING		11	11
70	SHEET TOTALS	784	174	55
70	SPECIAL BENCHING		5	5
71	SHEET TOTALS	869	92	141
72	SHEET TOTALS	697	73	69
73	SHEET TOTALS	720	297	9
74	SHEET TOTALS	1,005	717	221
74	SPECIAL BENCHING		295	295
75	SHEET TOTALS	748	476	108
75	SPECIAL BENCHING		81	81
76	SHEET TOTALS	1,128	765	633
76	SPECIAL BENCHING		522	522
77	SHEET TOTALS	926	312	236
77	SPECIAL BENCHING		185	185
78	SHEET TOTALS	839	308	91
78	SPECIAL BENCHING		8	8
79	SHEET TOTALS	961	286	471
79	SPECIAL BENCHING		119	119
80	SHEET TOTALS	444	6	643
TOTALS TO GEN. SUM.		30,556	10,902	9,688

**ITEM 605 - AGGREGATE DRAINS**

AGGREGATE DRAINS ARE TO BE PROVIDED FOR SUBSURFACE DRAINAGE. OUTLET LOCATIONS ON PATH ARE TYPICAL TO GUIDANCE PROVIDED IN THE ODOT PAVEMENT DESIGN MANUAL 2024 EDITION. OUTLET LOCATIONS FOR STAGING AREA ARE PROVIDED IN THE TABLE BELOW. TOTAL ESTIMATES QUANTITIES OF AGGREGATE DRAINS BELOW TO BE CARRIED TO GENERAL SUMMARY:

ITEM 605 AGGREGATE DRAINS:	
STAGING AREA	436 FT
PATH	3062 FT
S.R. 60	177 FT
<b>TOTAL:</b>	<b>3675 FT</b>

KILLBUCK STAGING AREA		
STATION	SIDE	ITEM 605 - AGGREGATE DRAINS (FT)
9+00.00	LT	0
9+25.00	LT	0
9+50.00	LT	8
9+75.00	LT	18
10+00.00	LT	20
10+25.00	LT	28
10+50.00	LT	30
10+75.00	LT	30
11+00.00	LT	30
11+25.00	LT	30
11+50.00	LT	28
11+75.00	LT	19
12+00.00	RT	5
12+25.00	RT	6
12+50.00	LT	8

12+75.00	RT	8
13+00.00	LT	19
13+25.00	LT	16
13+50.00	LT	12
13+75.00	RT	5
14+00.00	LT	11
14+25.00	RT	5
14+50.00	RT	5
14+75.00	RT	5
15+00.00	LT	6
15+25.00	RT	5
15+50.00	LT	6
15+75.00	RT	5
16+00.00	LT	5
16+25.00	LT	5
16+50.00	RT	9
16+75.00	RT	14
17+00.00	LT	7
17+25.00	RT	8
17+37.86	LT	20
TOTALS TO GEN. SUM.		436

**ITEM 606 - ANCHOR ASSEMBLY MGS TYPE E**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENTIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

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**GENERAL NOTES**  
**HOL-COUNTY TRAIL PHASE 5C2**  
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**ITEM 614. MAINTAINING TRAFFIC**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON SR-60 BY USE OF THE EXISTING AND COMPLETED PAVEMENT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN IN THE PLANS.

WHEN CONDUCTING WORK AT THE BEGINNING OF THE PROJECT (SR-520), THE TR-64 CROSSING AND THE TIE-IN AT THE END OF THE PROJECT (SR-60), THE CONTRACTOR SHALL ENSURE THAT EXISTING TRAFFIC IS MAINTAINED ACCORDING TO SCD MT-97.10.

WHEN CONDUCTING WORK ALONG SR-60, THE CONTRACTOR SHALL ENSURE THAT EXISTING TRAFFIC IS MAINTAINED ACCORDING TO SCD MT-96.11.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. INCLUDED IN THIS ITEM IS INSTALLATION OF TEMPORARY CONSTRUCTION FENCING TO PROTECT THE SECTION 4(f) PROPERTY AND THE PUBLIC. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**TRAIL MAINTENANCE OF TRAFFIC**

WHEN CONSTRUCTING THE CONNECTIONS FROM THE NEW STAGING AREA TO THE EXISTING HOLMES COUNTY TRAIL AS SHOWN ON SHEETS 8-9, MAINTAIN AT LEAST 6 FEET OF EXISTING TRAIL WIDTH OPEN TO THE PUBLIC. PROVIDE CONSTRUCTION FENCING TO SEPARATE THE TRAIL TRAFFIC FROM THE WORK AREA. PROVIDE A MINIMUM OF 1 WEEK OF NOTICE TO THE PARK DISTRICT PRIOR TO ANY IMPACTS.

IMPACTS TO THE TRAIL IN ORDER TO MAKE THE CONNECTION SHALL BE LIMITED TO 3 CONSECUTIVE CALENDAR DAYS.

ANY ADDITIONAL IMPACTS TO THE TRAIL SHALL BE COORDINATED WITH THE HOLMES COUNTY PARK DISTRICT AND APPROVED BY THE PARK DISTRICT A MINIMUM OF 1 WEEK PRIOR TO THE IMPACTS.

PROVIDE THE FOLLOWING SIGNAGE ON EITHER SIDE AND 50' OFFSET FROM THE NARROWING OF THE TRAIL:



**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 10 M. GAL.

**ITEM 614. WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (BIDIRECTIONAL)**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

**OVERHEAD-MOUNTED WORK ZONE SIGNALS**

SIGNALS SHALL BE OVERHEAD MOUNTED IN ACCORDANCE WITH THE DETAILS SHOWN ON TRAFFIC SCD MT-96.20.

**DELINEATION OF PORTABLE AND PERMANENT BARRIER**

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB OR PERMANENT BARRIER (INCLUDING BRIDGE PARAPETS) CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) 30 EACH

ITEM 614, OBJECT MARKER, TWO-WAY 25 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

**MAINTENANCE OF RECREATIONAL BOATING TRAFFIC**

KILLBUCK CREEK RECREATIONAL BOATING TRAFFIC SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION OF THE PROJECT EITHER THROUGH EXISTING RIVER CHANNEL OR THROUGH PORTAGE TRAIL APPROVED BY THE ENGINEER.

ADEQUATE SIGNING BOTH UPSTREAM AND DOWNSTREAM SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR. THE FOLLOWING TYPE SIGNS ARE CONSIDERED TO BE MINIMUM TREATMENT:

1. APPROXIMATELY ONE-QUARTER MILE UPSTREAM, ADVANCED WARNING TYPE SIGNS ON BOTH BANKS;
2. APPROXIMATELY 300 FEET UPSTREAM, SIGNS SPECIFYING ACTIONS REQUIRED OF BOATERS ON BOTH BANKS;
3. APPROXIMATELY ONE-QUARTER MILE DOWNSTREAM, ADVANCE WARNING TYPE SIGNS ON BOTH BANKS; AND
4. APPROXIMATELY 300 FEET DOWNSTREAM, SIGNS SPECIFYING ACTIONS REQUIRED OF BOATERS OF BOTH BANKS.

THE ABOVE SIGNING SHALL BE MOUNTED IN SUCH A WAY AS TO BE A MINIMUM OF 4 FEET ABOVE THE WATER LEVEL, UNOBSTRUCTED BY TREE BRANCHES, AND PROPERLY ANGLED FOR MAXIMUM VISIBILITY FROM THE MAIN CLEAR CHANNEL. THE METHOD OF SUPPORTING THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. UPON COMPLETION OF THE PROJECT, THE SIGNS AND SUPPORT SYSTEMS SHALL BE COMPLETELY REMOVED FROM THE RIVER CHANNEL. THE CONTRACTOR SHALL NOTIFY LOCAL CANOE LIVERIES USING THIS PORTION OF THE RIVER AT LEAST 10 DAYS PRIOR TO ANY CHANGES AFFECTING RECREATIONAL BOATING TRAFFIC. PORTAGE TRAILS IF USED SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR WITH THE LEAST POSSIBLE DISTURBANCE TO THE SURROUNDING AREA. THE TRAIL SHALL BE ADEQUATELY MARKED IN BOTH DIRECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE RIGHT-OF-WAY FOR THE PORTAGE TRAILS IF REQUIRED.

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**MAINTENANCE OF TRAFFIC NOTES**

**HOL-COUNTY TRAIL PHASE 5C2**

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**TRENCH FOR WIDENING**

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

**OVERNIGHT TRENCH CLOSING**

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 3 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASEWORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

**SEQUENCE OF CONSTRUCTION**

PRE-PHASE 1A:  
INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER MT-97.11 AND CONSTRUCT ALL INTERSECTION WORK ON THE RIGHT SIDE OF SR-60 BEFORE PHASE 1 OPERATIONS. THE CONTRACTOR SHALL ALSO INSTALL THE TEMPORARY WORK ZONE TRAFFIC SIGNALS DURING PRE-PHASE. ALL PRE-PHASE WORK SHALL BE COMPLETED IN 5 DAYS OR LESS.

PHASE 1:  
INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN IN THE PLANS, ACTIVATE THE TEMPORARY SIGNALS AND SHIFT TWO-WAY, ALTERNATING TRAFFIC ONTO THE LEFT SIDE OF SR-60 WHILE CONSTRUCTING DEMOLITION OF THE RIGHT SIDE OF THE EXISTING ROADWAY FOLLOWED BY THE SUBSEQUENT CONSTRUCTION OF THE RIGHT SIDE OF THE PROPOSED ROADWAY AS WELL AS THE RIGHT SIDE OF THE STRUCTURE.

PHASE 2:  
INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN IN THE PLANS, MODIFY TEMPORARY SIGNALS AND SHIFT TWO-WAY, ALTERNATING TRAFFIC ONTO THE RIGHT SIDE OF SR-60 WHILE CONSTRUCTING DEMOLITION OF THE LEFT SIDE OF THE EXISTING ROADWAY FOLLOWED BY THE SUBSEQUENT CONSTRUCTION OF THE LEFT SIDE OF THE PROPOSED ROADWAY AS WELL AS THE LEFT SIDE OF THE STRUCTURE.

**WORK ZONE MARKINGS AND SIGNS**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

PHASE 1 QUANTITIES  
ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BI-DIRECTIONAL) 4 EACH

ITEM 614, WORK ZONE CENTER LINE, CLASS I, 6", 740.06, TYPE I (DOUBLE YELLOW) 0.09 MILES

ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I (WHITE) 0.13 MILES

ITEM 614, WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I 23 FEET

ITEM 622, PORTABLE BARRIER, UNANCHORED 610 FEET

PHASE 2 QUANTITIES

ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BI-DIRECTIONAL) 6 EACH

ITEM 614, WORK ZONE CENTER LINE, CLASS I, 6", 740.06, TYPE I (DOUBLE YELLOW) 0.02 MILES

ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I (WHITE) 0.14 MILES

ITEM 614, WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I 23 FEET

ITEM 622, PORTABLE BARRIER, UNANCHORED 550 FEET

**FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL**

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON SHEETS 19-22 AND TRAFFIC SCDS MT-96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

	PHASE				
	1	2	3	4	5
	EB (MAINLINE)	WB (MAINLINE)	RESIDENTIAL DRIVE STA. 108+50	RESIDENTIAL DRIVE STA. 108+30	RESIDENTIAL DRIVE STA. 110+42
MIN. GREEN	20	20	7	7	7
EXTENSION	4	4	3	3	3
MAX. GREEN	30	30	20	20	20
YELLOW	3	3	3	3	3
ALL RED	40	40	20	20	20
RECALL	OFF	OFF	OFF	OFF	OFF

SIGNAL SHALL BE FULLY ACTUATED AND REST IN ALL RED WHEN NO VEHICLES ARE DETECTED.

PHASES 3 AND 4 TO RUN CONCURRENTLY.

PROVIDE TIMING APPROPRIATE FOR THE SIGNAL LOCATION UNDER CONSIDERATION. TYPICAL FLOW RATES ARE DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL (TEM).

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

PAYMENT FOR WORK ZONE TRAFFIC SIGNAL CONTROL SHALL BE INCLUDED IN ITEM 614, MAINTAINING TRAFFIC.

CALCULATED  
KLD  
CHECKED  
MS

**MAINTENANCE OF TRAFFIC NOTES**

**HOL-COUNTY TRAIL  
PHASE 5C2**

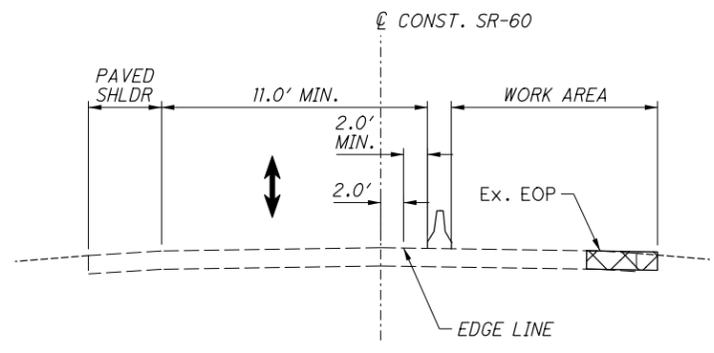
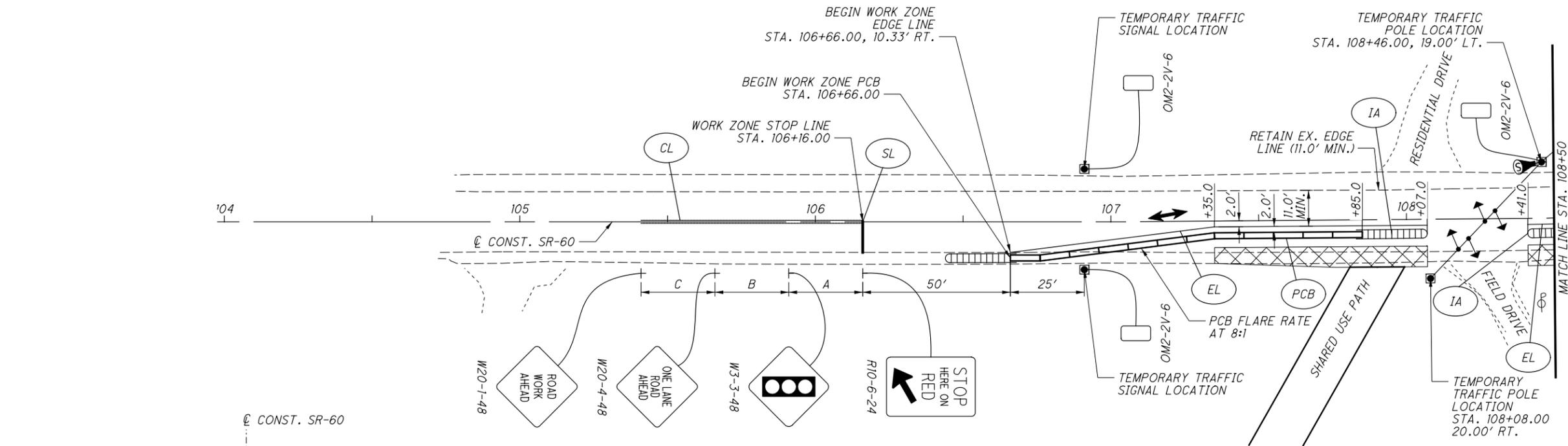
G:\DE\Clients\04\_Holmes County Parks\00222288\_SR60\20806\_SR60\Design\MOT\Sheets\20806\_MPO1.dgn Sheet 9/2/2025 10:09:20 AM A.Adair



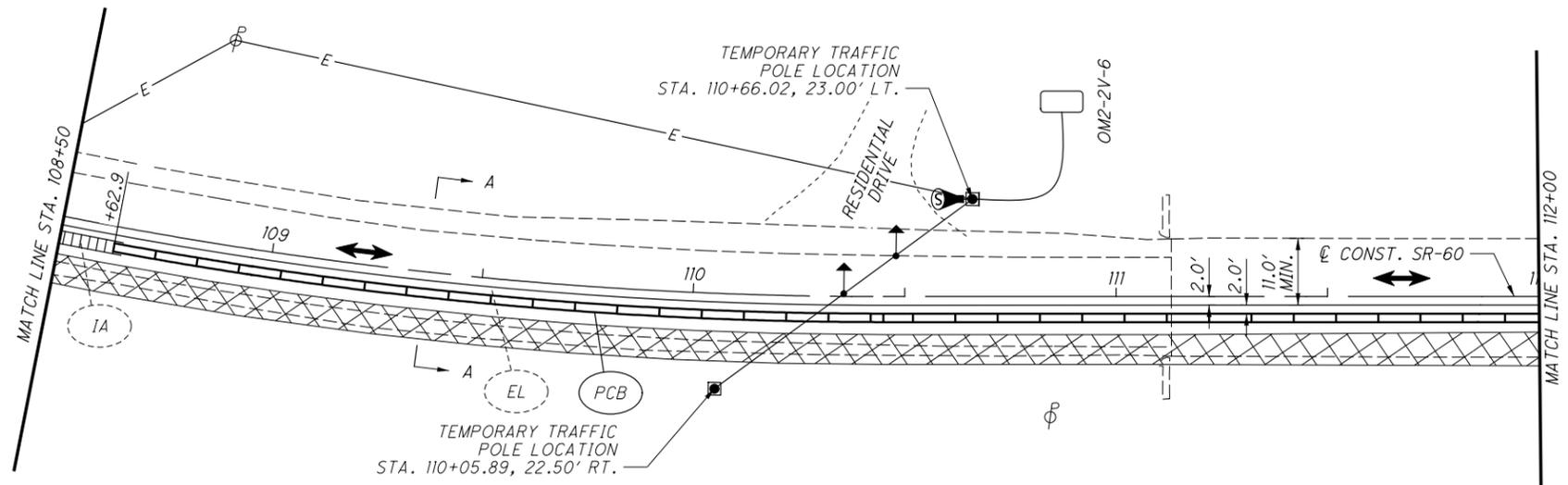
**HOL-COUNTY TRAIL  
PHASE 5C2**

**MAINTENANCE OF TRAFFIC PHASE ONE  
STA. 105+00 TO STA. 112+00 - S.R. 60**

**HOL-COUNTY TRAIL  
PHASE 5C2**



SECTION A-A  
PHASE 1 MAINTENANCE OF TRAFFIC  
(NOT TO SCALE)



- LEGEND**
- PORTABLE BARRIER
  - DIRECTION OF TRAFFIC
  - AREA TO BE CONSTRUCTED

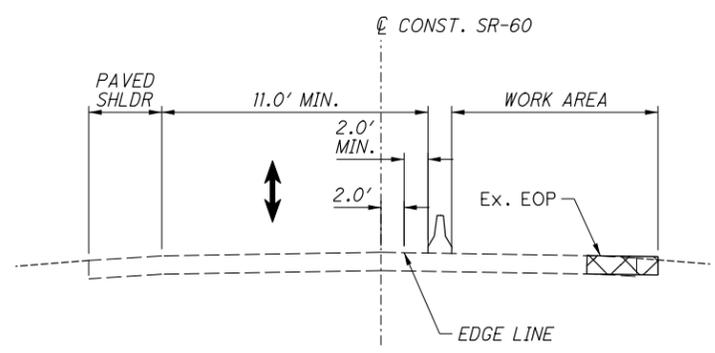
**NOTE:**  
1. FOR DETAILS NOT SHOWN HERE,  
SEE SCD MT-96.11, MT-96.20, AND MT-96.26



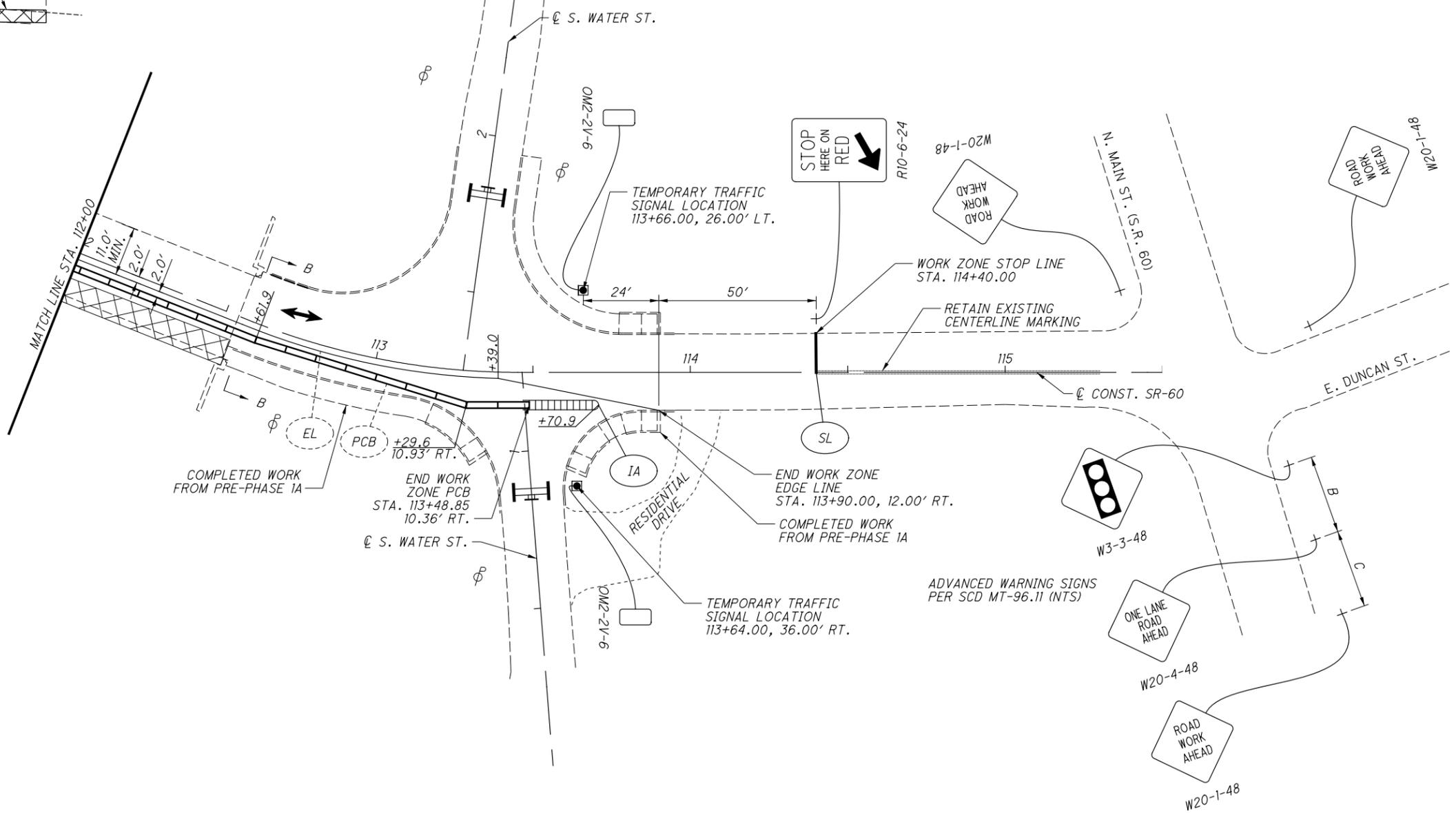
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**MAINTENANCE OF TRAFFIC PHASE ONE  
STA. 112+00 TO STA. 115+50 - S.R. 60**

**HOL-COUNTY TRAIL  
PHASE 5C2**



**SECTION B-B**  
PHASE 1 MAINTENANCE OF TRAFFIC  
(NOT TO SCALE)



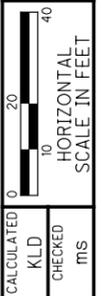
**LEGEND**

- PORTABLE BARRIER
- DIRECTION OF TRAFFIC
- AREA TO BE CONSTRUCTED

**NOTE:**  
1. FOR DETAILS NOT SHOWN HERE,  
SEE SCD MT-96.11, MT-96.20, AND MT-96.26

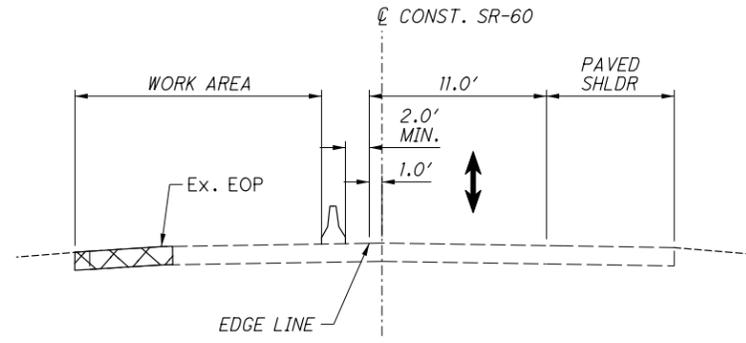
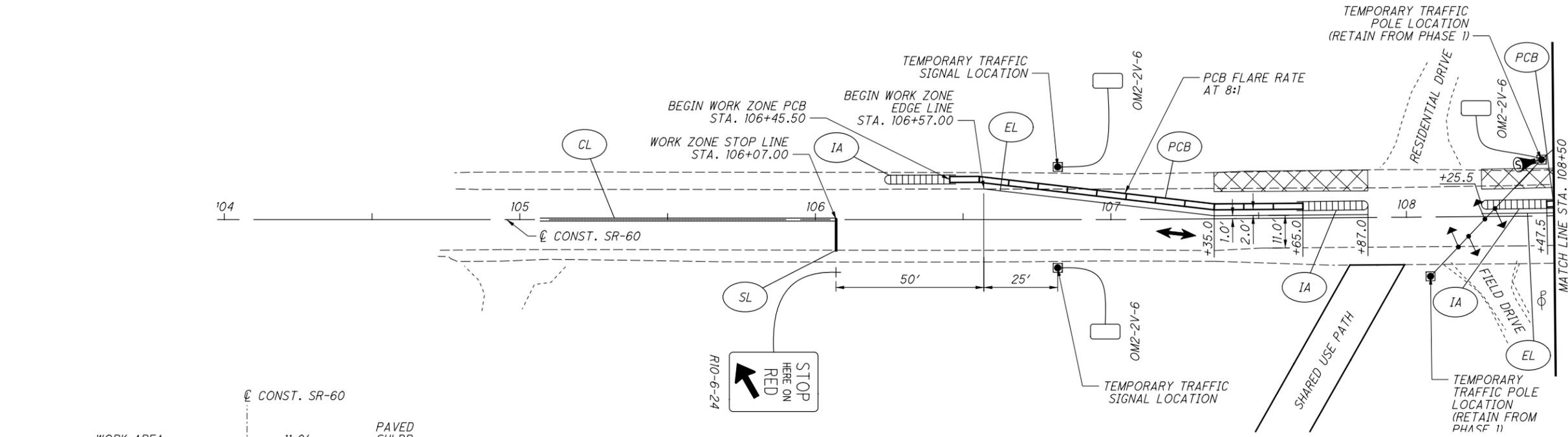
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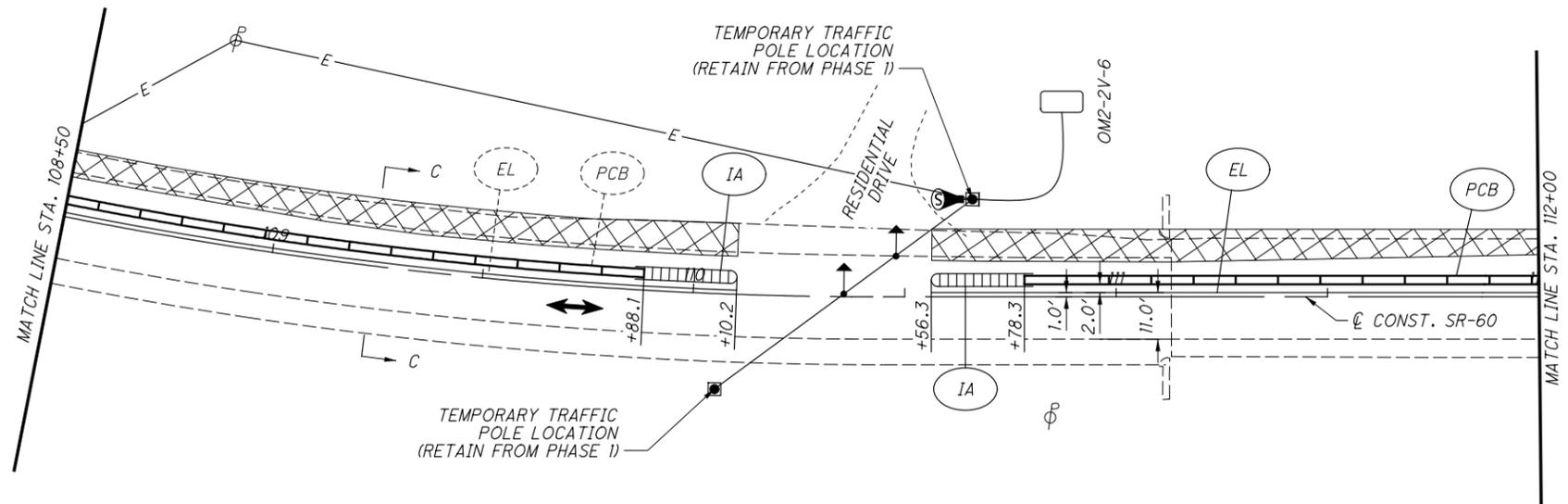


**MAINTENANCE OF TRAFFIC PHASE TWO**  
**STA. 105+00 TO STA. 112+00 - S.R. 60**

**HOL-COUNTY TRAIL**  
**PHASE 5C2**



SECTION C-C  
 PHASE 2 MAINTENANCE OF TRAFFIC  
 (NOT TO SCALE)

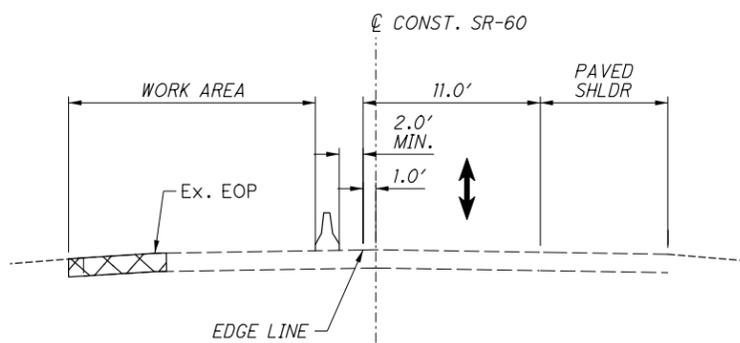


**LEGEND**

- PORTABLE BARRIER
- DIRECTION OF TRAFFIC
- AREA TO BE CONSTRUCTED

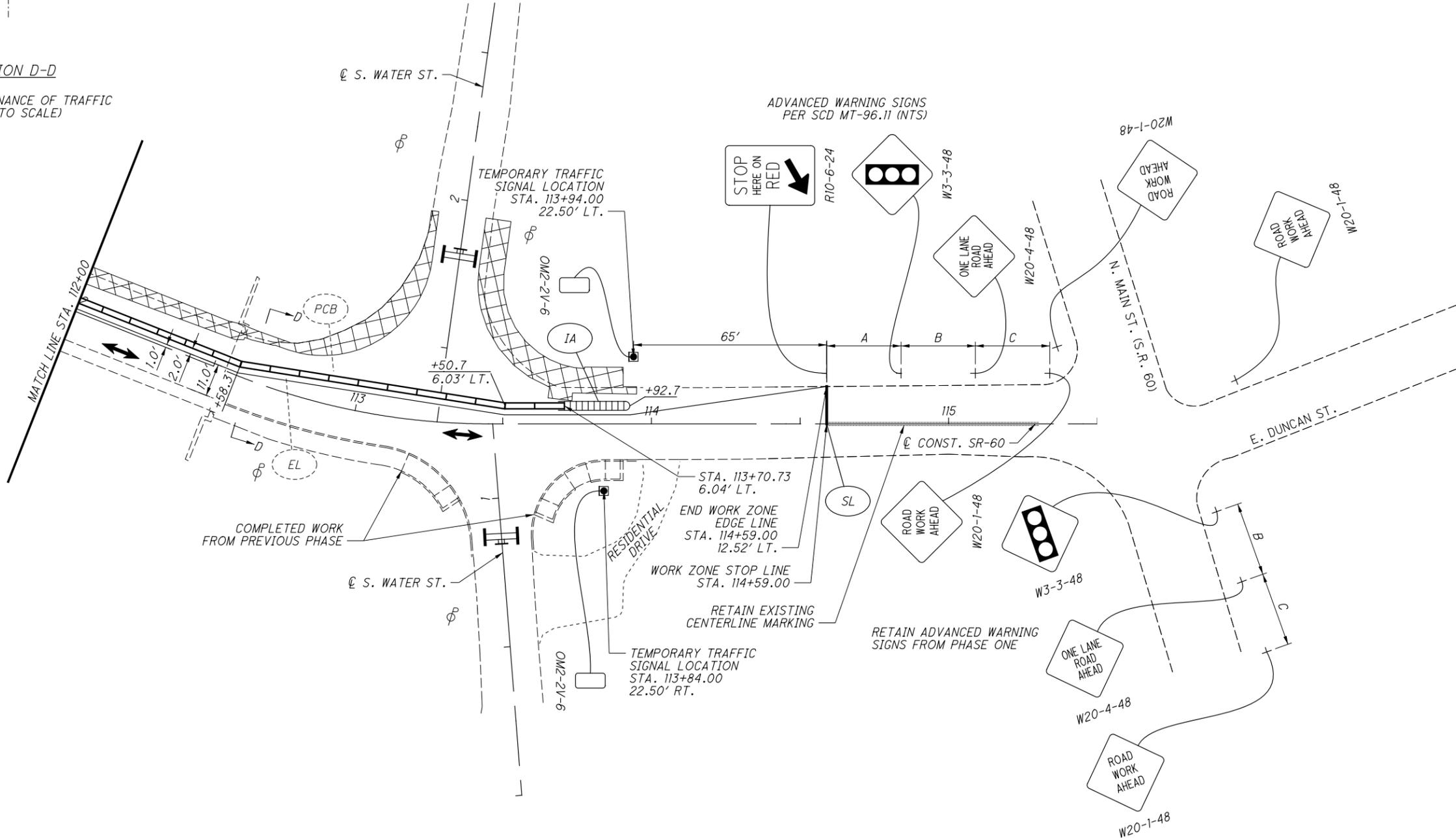
**NOTE:**  
 1. FOR DETAILS NOT SHOWN HERE,  
 SEE SCD MT-96.11, MT-96.20, AND MT-96.26

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SECTION D-D

PHASE 2 MAINTENANCE OF TRAFFIC  
(NOT TO SCALE)



- LEGEND**
- PORTABLE BARRIER
  - DIRECTION OF TRAFFIC
  - AREA TO BE CONSTRUCTED

**NOTE:**  
1. FOR DETAILS NOT SHOWN HERE,  
SEE SCD MT-96.11, MT-96.20, AND MT-96.26

CALCULATED  
KLD  
CHECKED  
ms

HORIZONTAL SCALE IN FEET

**HOL-COUNTY TRAIL  
PHASE 5C2**

**MAINTENANCE OF TRAFFIC PHASE TWO  
STA. 112+00 TO STA. 115+50 - S.R. 60**

**HOL-COUNTY TRAIL  
PHASE 5C2**

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SHEET NUMBER												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	6	14	15	16	27	28	29	34	35	94		01/ENH	EXT	TOTAL				
												LS	201	11000	LS		ROADWAY	
						LS						LS	202	11200	LS		PORTIONS OF STRUCTURE REMOVED, STONE ABUTMENTS	
					4							4	202	20010	4	EACH	HEADWALL REMOVED	
					598							598	202	23000	598	SY	PAVEMENT REMOVED	
					341							341	202	32000	341	FT	CURB REMOVED	
							15					15	202	35100	15	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
					90							90	202	35200	90	FT	PIPE REMOVED, OVER 24" DIAMETER	
					436							436	202	38000	436	FT	GUARDRAIL REMOVED	
					33							33	SPECIAL	20270000	33	FT	FILL AND PLUG EXISTING CONDUIT, 12" DIAMETER	15
1,470					10,387							11,857	202	75000	11,857	FT	FENCE REMOVED	
					9							9	202	75250	9	EACH	GATE REMOVED	
					14,039							14,039	203	10000	14,039	CY	EXCAVATION	
					15,040							15,040	203	20000	15,040	CY	EMBANKMENT	
						26						26	203	35110	26	CY	GRANULAR MATERIAL, TYPE B	
								25,753	934			26,687	204	10000	26,687	SY	SUBGRADE COMPACTION	
	2,410					26						3,254	204	13000	3,254	CY	EXCAVATION OF SUBGRADE	
												818	204	30020	818	CY	GRANULAR MATERIAL, TYPE C	
												12	204	45000	12	hour	PROOF ROLLING	
												2,455	204	50000	2,455	SY	GEOTEXTILE FABRIC	
												6,195	206	15020	6,195	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
							238					238	606	15050	238	FT	GUARDRAIL, TYPE MGS	
							1					1	606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
							3					3	606	26550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
							4					4	606	34600	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	
					427							427	607	23000	427	FT	FENCE, TYPE CLT	
119					17,080							17,199	607	98000	17,199	FT	FENCE, MISC.:WOOD FENCE (SAFETY RAIL PER SCD RM-5.2)	15
					6							6	607	98100	6	EACH	FENCE, MISC.:10 FT METAL SWING GATE	95
					2							2	607	98100	2	EACH	FENCE, MISC.:7 FT METAL SWING GATE	95
												1,286	608	10000	1,286	SF	4" CONCRETE WALK	
												406	608	52000	406	SF	CURB RAMP	
												330	609	26000	330	FT	CURB, TYPE 6	
												6	632	64950	6	EACH	TEST HOLE PERFORMED, LEVEL A SUE	
												1	638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
					1							1	SPECIAL	68011000	1	EACH	SHELTER HOUSE	15
					1							1	SPECIAL	68021000	1	EACH	WATER WELL ASSEMBLY	15
												4	SPECIAL	69050350	4	EACH	MAILBOX REMOVED AND RESET	15
2												2	SPECIAL	69050560	2	EACH	BICYCLE RACK	9
										4		4	SPECIAL	69050600	4	EACH	BOLLARD	94
												99	SPECIAL	69065016	99	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	14
												1,000	SPECIAL	69065024	1,000	GAL	WORK INVOLVING REGULATED WATER	14
												4	SPECIAL	69098000	4	EACH	HITCHING POST	15
												LS	SPECIAL	69098400	LS		MISC.: WORK INVOLVING ASBESTOS CONTAINING MATERIALS	14
																	EROSION CONTROL	
						6						6	601	32100	6	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
6						23						29	601	32200	29	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
					2							2	659	00100	2	EACH	SOIL ANALYSIS TEST	
95					4,484							4,796	659	00300	4,796	CY	TOPSOIL	
					40,399							40,399	659	00550	40,399	SY	SEEDING AND MULCHING, CLASS 4A	
					2,020							2,020	659	14000	2,020	SY	REPAIR SEEDING AND MULCHING	
					2,020							2,020	659	15000	2,020	SY	INTER-SEEDING	
					5.64							5.64	659	20000	5.64	TON	COMMERCIAL FERTILIZER	
					8.35							8.35	659	31000	8.35	ACRE	LIME	
					224							224	659	35000	224	MGAL	WATER	
												1,952	670	00500	1,952	SY	SLOPE EROSION PROTECTION	
848												848	670	00700	848	SY	DITCH EROSION PROTECTION	

GENERAL SUMMARY

HOL-COUNTY TRAIL PHASE 5C2

G:\DE\Clients\0H\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_GG002.dgn Sheet 9/5/2025 9:52:29 AM Less

SHEET NUMBER											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	16	28	29	31	34	35		99	01/ENH	EXT	TOTAL				
											LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
											175,962	832	30000	175,962	EACH	EROSION CONTROL	
																DRAINAGE	
				60							60	602	20000	60	CY	CONCRETE MASONRY	
			3,675								3,675	605	31100	3,675	FT	AGGREGATE DRAINS	
82					15						97	611	04400	97	FT	12" CONDUIT, TYPE B	
130											130	611	04900	130	FT	12" CONDUIT, TYPE D	
				88							88	611	16900	88	FT	36" CONDUIT, TYPE D	
				83							83	611	16901	83	FT	36" CONDUIT, TYPE D, AS PER PLAN	16
				90							90	611	21400	90	FT	48" CONDUIT, TYPE D	
1											1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
					1						1	611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
					2						2	611	98634	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
					2						2	SPECIAL	61199700	2	EACH	GAS VALVE BOX ADJUSTED TO GRADE	15
																PAVEMENT	
								1,375			1,375	254	01000	1,375	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" MAX	
		634						154			788	301	56000	788	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
		979					3,860	154			4,993	304	20000	4,993	CY	AGGREGATE BASE	
		891					1,700	321			2,912	407	10000	2,912	GAL	TACK COAT (0.08 GAL/SY)	
		194					887	73			1,154	441	70000	1,154	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
		271					1,034	64			1,369	441	70300	1,369	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
		141					223				364	452	12010	364	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
																TRAFFIC CONTROL	
10.5						415					425.5	630	03100	425.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
						103					103	630	04100	103	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
1						5					6	630	08600	6	EACH	SIGN POST REFLECTOR	
4						321					325	630	80100	325	SF	SIGN, FLAT SHEET	
						15					15	630	84900	15	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
1											1	630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
1						8					8	630	86002	8	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
											1	630	89812	1	EACH	REMOVAL OF WOOD POLE AND DISPOSAL	
0.15						2.34					2.49	642	00300	2.49	MILE	CENTER LINE, TYPE 1	
237											237	642	00400	237	FT	CHANNELIZING LINE, 8", TYPE 1	
59						56					115	642	00500	115	FT	STOP LINE, TYPE 1	
474											474	642	00700	474	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1, (YELLOW)	
485											485	642	01200	485	FT	PARKING LOT STALL MARKING, TYPE 1	
17											17	642	01300	17	EACH	LANE ARROW, TYPE 1	
164											164	642	01500	164	FT	DOTTED LINE, 4", TYPE 1, (WHITE)	
3											3	642	01702	3	EACH	HANDICAP SYMBOL MARKING, TYPE 1	
						0.22					0.22	646	10010	0.22	MILE	EDGE LINE, 6", (WHITE)	
						0.16					0.16	646	10200	0.16	MILE	CENTER LINE	
						43					43	646	10400	43	FT	STOP LINE	
						106					106	646	10510	106	FT	CROSSWALK LINE, 12"	
																STRUCTURE OVER 20 FOOT SPAN (BRIDGE 008)	
									253		253	203	10000	253	CY	EXCAVATION, BRIDGE	
									320		320	203	20000	320	CY	EMBANKMENT, BRIDGE	
											LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
											122	503	21100	122	CY	UNCLASSIFIED EXCAVATION	
											LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
											700	507	00600	700	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
											770	507	00650	770	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	

GENERAL SUMMARY

HOL-COUNTY TRAIL PHASE 5C2

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SHEET NUMBER										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
99		III		120						01/ENH	EXT	TOTAL				
10,995										10,995	509	10000	10,995	LB	EPOXY COATED STEEL REINFORCEMENT	
27										27	511	31610	27	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
55										55	511	44110	55	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	
28										28	511	46510	28	CY	CLASS QC1 CONCRETE, FOOTING	
126										126	512	10100	126	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
5										5	515	12030	5	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48, 61'-0"	
24										24	516	13900	24	SF	2" PREFORMED EXPANSION JOINT FILLER	
53										53	516	14014	53	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
40										40	516	31010	40	FT	2" DEEP JOINT SEALER	
20										20	516	43101	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN, 1.5" THICK	103
132										132	517	70001	132	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	98
59										59	518	21200	59	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
149										149	SPECIAL	51822300	149	FT	STEEL DRIP STRIP	
81										81	518	40000	81	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
70										70	518	40010	70	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
90										90	601	32200	90	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, BRIDGE	
6										6	856	10000	6	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE	
		LS								LS	202	11203	LS		STRUCTURE OVER 20 FOOT SPAN (BRIDGE 009) PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	110
		29								29	203	10000	29	CY	EXCAVATION, BRIDGE	
		35								35	203	20000	35	CY	EMBANKMENT, BRIDGE	
		LS								LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
		47								47	503	21100	47	CY	UNCLASSIFIED EXCAVATION	
		6,823								6,823	509	10000	6,823	LB	EPOXY COATED STEEL REINFORCEMENT	
		156								156	510	10001	156	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	110
		22								22	511	31610	22	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
		29								29	511	44110	29	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	
		79								79	512	10100	79	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		5								5	515	12030	5	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48, 46'-0"	
		21								21	516	13900	21	SF	2" PREFORMED EXPANSION JOINT FILLER	
		40								40	516	31010	40	FT	2" DEEP JOINT SEALER	
		20								20	516	43101	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN, 1.5" THICK	113
		102								102	517	70001	102	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	110
		15								15	518	21200	15	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
		107								107	SPECIAL	51822300	107	FT	STEEL DRIP STRIP	
		73								73	518	40000	73	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
		24								24	518	40010	24	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
		20								20	519	11101	20	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	110
		36								36	601	32200	36	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, BRIDGE	
		5								5	856	10000	5	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE	
		LS								LS	202	11203	LS		STRUCTURE OVER 20 FOOT SPAN (BRIDGE 010) PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	119
		27								27	203	10000	27	CY	EXCAVATION, BRIDGE	
		32								32	203	20000	32	CY	EMBANKMENT, BRIDGE	
		LS								LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
		30								30	503	21100	30	CY	UNCLASSIFIED EXCAVATION	

**GENERAL SUMMARY**

**HOL-COUNTY TRAIL  
PHASE 5C2**

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SHEET NUMBER											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
17	18		120		128						01/ENH		EXT	TOTAL			
			5,053								5,053	509	10000	5,053	LB	EPOXY COATED STEEL REINFORCEMENT	
			116								116	510	10001	116	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	119
			22								22	511	31610	22	CY	CLASS OC2 CONCRETE, SUPERSTRUCTURE	
			14								14	511	44110	14	CY	CLASS OC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	
			71								71	512	10100	71	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
			5								5	515	12030	5	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48, 46'-0"	
			21								21	516	13900	21	SF	2" PREFORMED EXPANSION JOINT FILLER	
			40								40	516	31010	40	FT	2" DEEP JOINT SEALER	
			20								20	516	43101	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN, 1.5" THICK	122
			102								102	517	70001	102	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	119
			14								14	518	21200	14	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
			107								107	SPECIAL	51822300	107	FT	STEEL DRIP STRIP	
			57								57	518	40000	57	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
			24								24	518	40010	24	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
			20								20	519	11101	20	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	119
			28								28	601	32200	28	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, BRIDGE	
			5								5	856	10000	5	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE	
					LS						LS	202	11203	LS		STRUCTURE OVER 20 FOOT SPAN (HOL-60-0423) PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	128
					6,131						6,131	509	10000	6,131	LB	EPOXY COATED STEEL REINFORCEMENT	
					40						40	511	34410	40	CY	CLASS OC2 CONCRETE, SUPERSTRUCTURE	
					69						69	512	10100	69	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					154						154	517	70100	154	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
					154						154	517	70101	154	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING), AS PER PLAN	128
																MAINTENANCE OF TRAFFIC	
		10									10	614	12384	10	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
30											30	614	13310	30	EACH	BARRIER REFLECTOR, TYPE 1, (BIDIRECTIONAL)	
25											25	614	13360	25	EACH	OBJECT MARKER, TWO WAY	
		0.11									0.11	614	21200	0.11	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
		0.27									0.27	614	22210	0.27	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
		46									46	614	26400	46	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
		10									10	616	10000	10	MGAL	WATER	
		1,160									1,160	622	41100	1,160	FT	PORTABLE BARRIER, UNANCHORED	
																INCIDENTALS	
		LS									LS	614	11000	LS		MAINTAINING TRAFFIC	17
											12	619	16010	12	MNTH	FIELD OFFICE, TYPE B	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

HOL-COUNTY TRAIL PHASE 5C2

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REF NO.	SHEET NO.	STATION TO STATION				202	203	204		601	601		602		611	611	611		607	607	607	607		659	670
						PORTIONS OF STRUCTURE REMOVED, STONE ABUTMENTS	GRANULAR MATERIAL, TYPE B	EXCAVATION OF SUBGRADE		ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		CONCRETE MASONRY		36" CONDUIT, TYPE D	36" CONDUIT, TYPE D, AS PER PLAN	48" CONDUIT, TYPE D		FENCE, TYPE CLT	FENCE, MISC.:WOOD FENCE (SAFETY RAIL PER SCD RM-5.2)	FENCE, MISC.:10 FT METAL SWING GATE	FENCE, MISC.:7 FT METAL SWING GATE		TOPSOIL	SLOPE EROSION PROTECTION
SHARED USE PATH					LS	CY	CY		CY	CY		CY		FT	FT	FT		FT	FT	EACH	EACH		CY	SY	
D-1	41/89	269+91.00								5.3		17.6				38									
D-2	41/90	271+32.00								4.0		14.4		33											
D-3	87/91	298+07.82								3.4		1.6		55											
D-4	87/92	298+53.72										7.9			83										
D-5	47/93	353+40.09				LS		10	10			7.8				52									
E-1	38	231+00.00	LT		232+90.00	LT																	19	169	
E-2	38-39	231+00.00	RT		243+95.00	RT																	128	1151	
E-3	38-39	236+85.00	LT		243+95.00	LT																	70	631	
E-4	87	299+00.00	RT							0.8															
E-5	43	303+00.00	LT							0.8															
F-1	38	233+30.00	LT	TO	236+85.00	LT																			
F-2	39	243+81.51	LT	TO	244+98.49	LT																			
F-3	39	243+81.51	RT	TO	244+98.49	RT																			
F-4	39	245+65.00	LT	TO	246+35.00	LT																			
F-5	39-40	249+65.00	LT	TO	256+85.00	LT																			
F-6	40	256+00.00	RT	TO	257+39.95	RT																			
F-7	40	262+69.51	LT	TO	263+71.49	LT																			
F-8	40	262+69.51	RT	TO	263+71.49	RT																			
F-9	41	269+56.00	LT	TO	270+26.00	LT																			
F-10	41	269+56.00	RT	TO	274+72.54	RT																			
F-11	41	270+97.00	LT	TO	274+72.54	LT																			
F-12	41-42	275+23.46	LT	TO	280+00.00	LT																			
F-13	41-42	275+23.46	RT	TO	280+09.00	RT																			
F-14	42-43	280+20.00	LT	TO	298+10.00	LT																			
F-15	42-43	280+29.00	RT	TO	298+22.00	RT																			
F-16	87	298+62.22	RT	TO	300+47.52	RT																			
F-17	43-44	300+47.52	RT	TO	307+05.00	RT																			
F-18	44	306+48.10	LT	TO	307+00.00	LT																			
F-19	44	307+20.00	LT	TO	314+95.00	LT																			
F-20	44	307+25.00	RT	TO	314+95.00	RT																			
F-21	44-47	315+15.00	LT	TO	354+10.00	LT																			
F-22	44-47	315+15.00	RT	TO	354+10.00	RT																			
G-1	42	280+00.00	LT	TO	280+20.00	LT																			
G-2	42	280+09.00	RT	TO	280+29.00	RT																			
G-3	44	307+00.00	LT	TO	307+20.00	LT																			
G-4	44	307+05.00	RT	TO	307+25.00	RT																			
G-5	44	314+95.00	LT	TO	315+15.00	LT																			
G-6	44	314+95.00	RT	TO	315+15.00	RT																			
G-7	87	297+96.80	LT	TO	297+98.02	LT																			
DRIVE OFF TR-64																									
G-8	87	10+28.49	LT	TO	10+28.49	RT																			
TOTALS CARRIED TO GENERAL SUMMARY					LS	26	26		6	23		60		88	83	90		427	17080	6	2		217	1952	

CALCULATED HBZ	CHECKED AKA	<b>ROADWAY SUBSUMMARY</b>
28 133		

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REF NO.	SHEET NO.	STATION TO STATION				202	606	606	606	606	608	608	609	611	611	611	SPECIAL	638	SPECIAL
						PIPE REMOVED, 24" DIAMETER AND UNDER	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	4" CONCRETE WALK	CURB RAMP	CURB, TYPE 6	12" CONDUIT, TYPE B	CATCH BASIN ADJUSTED TO GRADE	CATCH BASIN RECONSTRUCTED TO GRADE	GAS VALVE BOX ADJUSTED TO GRADE	VALVE BOX ADJUSTED TO GRADE	MAILBOX REMOVED AND RESET
		S.R. 60				FT	FT	EACH	EACH	EACH	SF	SF	FT	FT	EACH	EACH	EACH	EACH	EACH
MB-1	48	108+31.20	LT																3
MB-2	48	110+64.55	LT																1
GR-1	48,49	108+45.38	RT	TO	111+09.25	RT	187.5	1											
GR-2	48,49	110+58.30	LT	TO	111+10.42	LT	12.5		1	1									
GR-3	49	112+56.76	RT	TO	113+05.38	RT	12.5		1	1									
GR-4	49	112+56.78	LT	TO	1+69.14	LT	25		1	1									
A-1	49	1+70.22	RT																
A-2	49	113+77.24	LT													1		1	
A-3	49	113+93.17	RT													1			
C-1	49	112+56.75	RT	TO	0+81.00	LT						109.2							
C-2	49	112+56.75	LT	TO	1+78.47	LT						72.8							
C-3	49	1+95.00	RT	TO	113+95.00	LT						92.4							
C-4	49	0+81.00	RT	TO	113+95.00	RT						54.9							
D-6	49	113+39.30	RT											1					
D-7	49	113+69.79	LT				5						5		1				
D-8	49	113+70.19	RT				10						10		1				
W-1	49	112+56.75	RT	TO	0+96.93	LT				389	141								
W-2	49	1+95.00	RT	TO	113+90.50	LT				418	86								
W-3	49	0+90.26	RT	TO	113+90.50	RT				42	179								
TOTALS CARRIED TO GENERAL SUMMARY						15	238	1	3	4	849	406	330	15	1	2	2	1	4

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<b>ROADWAY SUBSUMMARY</b>	
<b>HOL-COUNTY TRAIL PHASE 5C2</b>	
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133	



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REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	630	630	630	630	630										
							GROUND MOUNTED SUPPORT, NO. 3 POST	GROUND MOUNTED SUPPORT, NO. 4 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	FT	FT	EACH	SF	EACH	EACH				
S-35	96	WATER ST.	0+90	RT	RI-1-30	30 x 30				6.25												
						W4-4P-24	24 x 12	14			2.00			2	1							
S-36	96		1+53	LT	RI-1-30	30 x 30	14			6.25												
					W4-4P-24	24 x 12				2.00			2	1								
S-37	96	N. MAIN ST. (WATER ST. ALIGNMENT)	4+98	RT	W11-14-30	30 x 30				6.25												
						W11-1-30	12 x 9	13.25			0.75											
						W16-5P-24	24 x 18				3.00											
S-38	96			5+81	RT	D11-1-24	24 x 18				3.00											
					M6-3-12	12 x 9	10.75			0.75												
S-39	96	WATER ST.	5+99	LT	D11-1-24	24 x 18				3.00												
						M6-3-12	12 x 9	10.75			0.75											
						W11-14-30	30 x 30				6.25											
S-40	96			6+99	LT	W11-1-30	12 x 9	13.25			0.75											
						W16-5P-24	24 x 18				3.00											
						W11-14-30	30 x 30				6.25											
S-41	96			12+56	RT	W11-1-30	12 x 9	13.25			0.75			2	1							
						W16-5PL-24	24 x 18				3.00											
S-42	96		13+56	RT	D11-1-24	24 x 18				3.00			3	1								
					M6-1L-12	12 x 9	10.75			0.75												
S-43	96	EX. HOLMES COUNTY TRAIL (WATER ST. ALIGNMENT)	15+02	LT	D11-1-24	24 x 18				3.00												
						M6-2R-12	12 x 9	10.75			0.75			3	1							
						W11-14-30	30 x 30				6.25											
S-44	96			15+97	LT	W11-1-30	12 x 9	12.75			0.75											
					W16-7PL-24	24 x 12				2.00												
S-45	96	WATER ST.	20+55	LT	W11-H14A-36	36 x 36				9.00												
					W11-H1A-36	36 x 36				9.00			2	1								
TOTALS THIS SHEET							124	15		89			14	6								
TOTALS SHEET 30							291	88	5	232			1	2								
TOTALS CARRIED TO GENERAL SUMMARY							415	103	5	321			15	8								

REF NO.	SHEET NO.	STATION TO STATION	642	642	646	646	646	646														
			STOP LINE, TYPE 1	CENTER LINE, TYPE 1, (DOUBLE YELLOW)	STOP LINE	CENTER LINE, (DOUBLE YELLOW)	EDGE LINE, 6" (WHITE)	CROSSWALK LINE, 12"	FT	MILE	FT	MILE	MILE	FT								
SHARED USE PATH			FT	MILE	FT	MILE	MILE	FT														
TC-1	38	231+00.00	16																			
TC-2	38-43	231+00.00 CL TO 298+15.00 CL		1.28																		
TC-3	87	298+15.00	12																			
TC-4	87	298+52.00	12																			
TC-5	43-47	298+52.00 CL TO 354+15.50 CL		1.06																		
TC-6	47	354+15.50	16																			
S.R. 60																						
TC-7	48,49	106+07.00 CL TO 111+11.75 CL					0.10															
TC-8	48,49	107+35.00 RT TO 111+11.75 RT						0.08														
TC-9	48,49	107+35.00 LT TO 111+11.75 LT						0.08														
TC-10	49	111+11.75 LT TO 112+56.25 LT						0.03														
TC-11	49	111+11.75 CL TO 112+56.25 CL					0.03															
TC-12	49	111+11.75 RT TO 112+56.25 RT						0.03														
TC-13	49	112+56.25 CL TO 113+00.00 CL					0.01															
TC-14	49	1+53.00 LT			22																	
TC-15	49	113+32.29 RT TO 113+63.05 RT										58										
TC-16	49	0+90.00 LT&RT			21																	
TC-17	49	113+84.00 LT&RT										48										
TC-18	49	113+95.00 CL TO 114+59.00 CL																				
TOTALS CARRIED TO GENERAL SUMMARY			56	2.34	43	0.16	0.22	106														

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TRAFFIC CONTROL SUBSUMMARY

HOL-COUNTY TRAIL  
PHASE 5C2

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STATION RANGE	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	304	304	407	441	441	452						
						SUBGRADE COMPACTION	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	TACK COAT (0.08 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), P664-22, 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), 1.75"	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC IP						
SHARED USE PATH		FT	FT	SQ YD	SQ YD	SY	CY	CY	GAL	CY	CY	SY						
230+90.65	TO	244+08.50	LT & RT	1317.85														
		FULL DEPTH		16.00	2342.84	2342.84	390.47		187.43	97.62	113.89							
		+AGG COURSE		1.00	146.43		24.40											
		+SUBGRADE		3.00	439.28	439.28												
244+71.50	TO	256+10.00	LT & RT	1138.50														
		FULL DEPTH		16.00	2024.00	2024.00	337.33		161.92	84.33	98.39							
		+AGG COURSE		1.00	126.50		21.08											
		+SUBGRADE		3.00	379.50	379.50												
256+10.00	TO	256+50.00	LT & RT	40.00														
LANE TAPER RT		FULL DEPTH		15.00	66.67	66.67	11.11		5.33	2.78	3.24							
		+AGG COURSE		1.00	4.44		0.74											
		+SUBGRADE		3.00	13.33	13.33												
256+50.00	TO	256+90.00	LT & RT	40.00														
		FULL DEPTH		14.00	62.22	62.22	10.37		4.98	2.59	3.02							
		+AGG COURSE		1.00	4.44		0.74											
		+SUBGRADE		3.00	13.33	13.33												
256+90.00	TO	257+30.00	LT & RT	40.00														
LANE TAPER RT		FULL DEPTH		15.00	66.67	66.67	11.11		5.33	2.78	3.24							
		+AGG COURSE		1.00	4.44		0.74											
		+SUBGRADE		3.00	13.33	13.33												
257+30.00	TO	262+96.50	LT & RT	566.50														
		FULL DEPTH		16.00	1007.11	1007.11	167.85		80.57	41.96	48.96							
		+AGG COURSE		1.00	62.94		10.49											
		+SUBGRADE		3.00	188.83	188.83												
263+44.50	TO	274+74.00	LT & RT	1129.50														
		FULL DEPTH		16.00	2008.00	2008.00	334.67		160.64	83.67	97.61							
		+AGG COURSE		1.00	125.50		20.92											
		+SUBGRADE		3.00	376.50	376.50												
275+22.00	TO	280+06.91	LT & RT	484.91														
		FULL DEPTH		16.00	862.06	862.06	143.68		68.96	35.92	41.91							
		+AGG COURSE		1.00	53.88		8.98											
		+SUBGRADE		3.00	161.64	161.64												
280+06.91	TO	280+22.09	LT & RT	15.18														
		FULL DEPTH FIELD DRIVE		36.00		60.70	60.70		10.12			60.70						
280+22.09	TO	297+60.00	LT & RT	1737.91														
		FULL DEPTH		16.00	3089.62	3089.62	514.94		247.17	128.73	150.19							
		+AGG COURSE		1.00	193.10		32.18											
		+SUBGRADE		3.00	579.30	579.30												
297+60.00	TO	298+00.00	LT & RT	40.00														
LANE TAPER LT&RT		FULL DEPTH		14.00	62.22	62.22	10.37		4.98	2.59	3.02							
		+AGG COURSE		1.00	4.44		0.74											
		+SUBGRADE		3.00	13.33	13.33												
298+00.00	TO	298+23.38	LT & RT	23.38														
		FULL DEPTH		12.00	31.17	31.17	5.20		2.49	1.30	1.52							
		+AGG COURSE		1.00	2.60		0.43											
		+SUBGRADE		3.00	7.79	7.79												
SUBTOTALS						13869.47	2068.67		929.81	484.27	564.99	60.70						
TOTALS CARRIED TO SHEET 34						13870	2069		930	485	565	61						

SHARED USE PATH PAVEMENT CALCULATIONS

HOL-COUNTY TRAIL PHASE 5C2

CALCULATED  
HBZ  
CHECKED  
AKA

G:\DE\Clients\04\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_G5005.dgn Sheet 9/2/2025 10:09:32 AM A-Addir

STATION RANGE			SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SQ YD	CADD GENERATED AREA SQ YD	204	304	304	407	441	441	452						
								SUBGRADE COMPACTION SY	AGGREGATE BASE, 6" CY	AGGREGATE BASE, 8" CY	TACK COAT (0.08 GAL/SY) GAL	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), P664-22, 1.5" CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), 1.75" CY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP SY						
298+42.05	TO	300+60.00	LT & RT	217.95																
		FULL DEPTH			12.00	290.60		290.60	48.43		23.25	12.11	14.13							
		+AGG COURSE			1.00	24.22			4.04											
		+SUBGRADE			3.00	72.65		72.65												
300+60.00	TO	301+00.00	LT & RT	40.00																
LANE TAPER LT&RT		FULL DEPTH			14.00	62.22		62.22	10.37		4.98	2.59	3.02							
		+AGG COURSE			1.00	4.44			0.74											
		+SUBGRADE			3.00	13.33		13.33												
301+00.00	TO	307+04.22	LT & RT	604.22																
		FULL DEPTH			16.00	1074.17		1074.17	179.03		85.93	44.76	52.22							
		+AGG COURSE			1.00	67.14			11.19											
		+SUBGRADE			3.00	201.41		201.41												
307+04.22	TO	307+20.78	LT & RT	16.56																
		FULL DEPTH FIELD DRIVE			36.00		66.26	66.26	11.04					66.26						
307+20.78	TO	314+96.00	LT & RT	775.22																
		FULL DEPTH			16.00	1378.17		1378.17	229.69		110.25	57.42	66.99							
		+AGG COURSE			1.00	86.14			14.36											
		+SUBGRADE			3.00	258.41		258.41												
314+96.00	TO	315+14.00	LT & RT	18.00																
		FULL DEPTH FIELD DRIVE			36.00		72.00	72.00	12.00					72.00						
315+14.00	TO	340+30.00	LT & RT	2516.00																
		FULL DEPTH			16.00	4472.89		4472.89	745.48		357.83	186.37	217.43							
		+AGG COURSE			1.00	279.56			46.59											
		+SUBGRADE			3.00	838.67		838.67												
340+30.00	TO	340+70.00	LT & RT	40.00																
LANE TAPER LT		FULL DEPTH			15.00	66.67		66.67	11.11		5.33	2.78	3.24							
		+AGG COURSE			1.00	4.44			0.74											
		+SUBGRADE			3.00	13.33		13.33												
340+70.00	TO	343+00.00	LT & RT	230.00																
		FULL DEPTH			14.00	357.78		357.78	59.63		28.62	14.91	17.39							
		+AGG COURSE			1.00	25.56			4.26											
		+SUBGRADE			3.00	76.67		76.67												
343+00.00	TO	343+20.00	LT & RT	20.00																
LANE TAPER LT		FULL DEPTH			14.50	32.22		32.22	5.37		2.58	1.34	1.57							
		+AGG COURSE			1.00	2.22			0.37											
		+SUBGRADE			3.00	6.67		6.67												
343+20.00	TO	346+00.00	LT & RT	280.00																
		FULL DEPTH			15.00	466.67		466.67	77.78		37.33	19.44	22.69							
		+AGG COURSE			1.00	31.11			5.19											
		+SUBGRADE			3.00	93.33		93.33												
346+00.00	TO	346+20.00	LT & RT	20.00																
LANE TAPER LT		FULL DEPTH			14.50	32.22		32.22	5.37		2.58	1.34	1.57							
		+AGG COURSE			1.00	2.22			0.37											
		+SUBGRADE			3.00	6.67		6.67												
SUBTOTALS								9952.99	1483.15		658.69	343.07	400.24	138.26						
TOTALS CARRIED TO SHEET 34								9953	1484		659	344	401	139						

CALCULATED	
HBZ	
CHECKED	
AKA	

**SHARED USE PATH PAVEMENT CALCULATIONS**

**HOL-COUNTY TRAIL  
PHASE 5C2**

33  
133

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STATION RANGE	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	304	304	407	441	441	452						
						SUBGRADE COMPACTION	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	TACK COAT (0.08 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), P664-22, 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), 1.75"	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC IP	SY	CY	CY	GAL	CY	CY
346+20.00 TO 346+80.00	LT & RT	60.00																
			14.00	93.33		93.33	15.56		7.47	3.89	4.54							
			1.00	6.67			1.11											
			3.00	20.00		20.00												
346+80.00 TO 347+00.00	LT & RT	20.00																
LANE TAPER LT			14.50	32.22		32.22	5.37		2.58	1.34	1.57							
			1.00	2.22			0.37											
			3.00	6.67		6.67												
347+00.00 TO 349+00.00	LT & RT	200.00																
			15.00	333.33		333.33	55.56		26.67	13.89	16.20							
			1.00	22.22			3.70											
			3.00	66.67		66.67												
349+00.00 TO 349+20.00	LT & RT	20.00																
LANE TAPER LT			15.50	34.44		34.44	5.74		2.76	1.44	1.67							
			1.00	2.22			0.37											
			3.00	6.67		6.67												
349+20.00 TO 354+20.86	LT & RT	500.86																
			16.00	890.42		890.42	148.40		71.23	37.10	43.28							
			1.00	55.65			9.28											
			3.00	166.95		166.95												
FIELD DRIVE OFF TR-64																		
10+06.69 TO 11+65.06		158.37																
			22.00	22.48		22.48	3.75					22.48						
			12.00	256.26		256.26		56.95										
SUBTOTALS						1929.44	249.20	56.95	110.70	57.66	67.27	22.48						
TOTALS THIS SHEET						1930	2069		111	58	68	23						
TOTALS SHEET 32						13870	2069		930	485	565	61						
TOTALS SHEET 33						9953	1484		659	344	401	139						
TOTALS CARRIED TO GENERAL SUMMARY						25753	3860		1700	887	1034	223						

CALCULATED	HBZ
	CHECKED
AKA	
<b>SHARED USE PATH PAVEMENT CALCULATIONS</b>	
<b>HOL-COUNTY TRAIL PHASE 5C2</b>	
34	
133	

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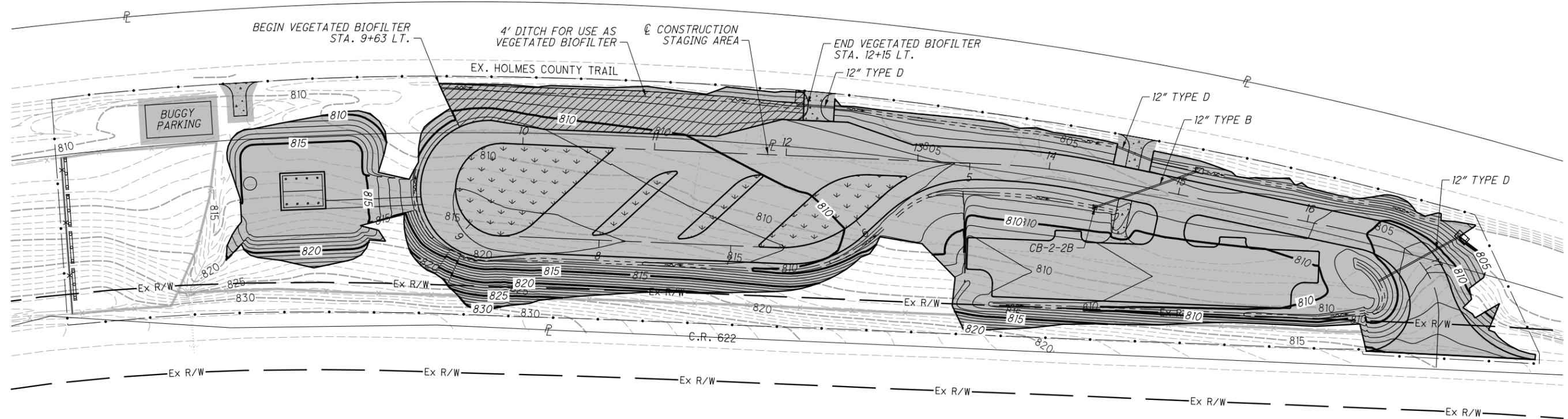
STATION RANGE	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	254	301	301	304	304	407	441	441				
						SUBGRADE COMPACTION	PAVEMENT PLANING, ASPHALT CONCRETE, 3" MAX	ASPHALT CONCRETE BASE, PG64-22, (449), 8"	ASPHALT CONCRETE BASE, PG64-22, (449), 4" LIFT	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	TACK COAT (0.08 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, 1.25"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), 1.75"				
		FT	FT	SQ YD	SQ YD	SY	SY	CY	CY	CY	CY	GAL	CY	CY				
<b>RESURFACING AND WIDENING S.R. 60</b>																		
107+35.00 TO 107+75.00	LT & RT	40.00																
PVMT TAPER			18.15		80.67		80.67					6.45	2.80					
FULL DEPTH			12.83		57.00	57.00		12.67		9.50		13.68	1.98	2.77				
+2 X 4" ASPHALT BASE STEP			0.67	2.96					0.33									
+2 X 8" ASPHALT BASE STEP			1.33	5.93					0.66									
+2 X 14" AGGREGATE BASE STEP			2.33	10.37						1.73								
+2 X 18" SUBGRADE STEP			3.00	13.33		13.33												
107+75.00 TO 110+86.75	LT & RT	311.75																
RESURFACING			18.04		624.78		624.78					49.98	21.69					
FULL DEPTH			13.96		483.67	483.67		107.48		80.61		116.08	16.79	23.51				
+2 X 4" ASPHALT BASE STEP			0.67	23.09					2.57			1.85						
+2 X 8" ASPHALT BASE STEP			1.33	46.19					5.13									
+2 X 14" AGGREGATE BASE STEP			2.33	80.82						13.47								
+2 X 18" SUBGRADE STEP			3.00	103.92		103.92												
<b>REAR APPROACH SLAB S.R. 60</b>																		
110+86.75 TO 111+11.75	LT & RT	25.00																
RESURFACING			24.00		66.67		66.67					5.33	2.31					
FULL DEPTH			8.00		22.22	22.22		4.94		3.70		5.33	0.77	1.08				
+2 X 4" ASPHALT BASE STEP			0.67	1.85					0.21			0.15						
+2 X 8" ASPHALT BASE STEP			1.33	3.70					0.41									
+2 X 14" AGGREGATE BASE STEP			2.33	6.48						1.08								
+2 X 18" SUBGRADE STEP			3.00	8.33		8.33												
<b>FORWARD APPROACH SLAB S.R. 60</b>																		
112+56.25 TO 112+81.29	LT & RT	25.04																
RESURFACING			21.85		60.78		60.78					9.72	2.11	2.95				
FULL DEPTH			4.31		12.00	12.00		2.67		2.00		2.88	0.42	0.58				
+2 X 18" AGG BASE & SUBGRADE STEP			3.00	8.35		8.35				1.39								
<b>ADD INTERSECTION S.R. 60 &amp; WATER ST.</b>																		
112+81.29 TO 113+95.00	LT & RT																	
RESURFACING					541.44		541.44					86.63	18.80	26.32				
FULL DEPTH					76.11	76.11		16.91		12.69		18.27	2.64	3.70				
+2 X 18" AGG BASE & SUBGRADE STEP					49.56	49.56				8.26								
<b>RESIDENTIAL DRIVE AT STA. 108+05</b>																		
ASPHALT APRON	LT				15.00	15.00				2.50		1.20	0.52	0.73				
<b>FIELD DRIVE AT STA. 108+30</b>																		
ASPHALT APRON	RT				9.78	9.78				1.63		0.78	0.34	0.48				
AGGREGATE BUILDUP					7.78	7.78					1.73							
<b>RESIDENTIAL DRIVE AT STA. 110+42</b>																		
ASPHALT APRON	LT				24.60	24.60				4.10		1.97	0.85	1.20				
AGGREGATE BUILDUP					42.11	42.11					9.36							
SUBTOTALS						933.75	1374.33	144.67	9.30	142.66	11.09	320.55	72.04	63.32				
TOTALS CARRIED TO GENERAL SUMMARY						934	1375	154		154		321	73	64				

<b>HOL-COUNTY TRAIL PHASE 5C2</b>	<b>S.R. 60 PAVEMENT CALCULATIONS</b>	CALCULATED AKA CHECKED TML
35 133		

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CALCULATED  
AKB  
CHECKED  
MS

80  
20  
0  
HORIZONTAL  
SCALE IN FEET



**LEGEND**

EARTH DISTURBED AREA (2.90 AC.)

VEGETATED BIOFILTER

BMP TYPE	STATION RANGE	SIDE	WIDTH	LAT./LONG.		EDA TREATMENT CREDIT (ACRES)
				BEGIN	END	
VEGETATED BIOFILTER	9+63 TO 12+15	LT.	4'	40.506959	-81.972001	0.59
				TREATMENT PROVIDED		0.59
				TREATMENT REQUIRED		0.58

PROJECT DATA	
TOTAL AREA (RIGHT OF WAY)	4.90 AC
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.38
PROJECT EARTH DISTURBED AREAS (EFFECTIVE)	2.90 AC
RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.45
ESTIMATED CONTRACTOR EARTH DISTURBED AREAS	0.125 AC
POST CONSTRUCTION BMP:	VEGETATED BIOFILTER
NOTICE OF INTENT EARTH DISTURBED AREAS	4.0 AC
IMMEDIATE RECEIVING WATERS	BLACK CREEK
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	0.69 AC
SUBSEQUENT RECEIVING WATERS	KILLBUCK CREEK
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	1.21 AC

**PROJECT SITE PLAN  
STAGING AREA**

**HOL-COUNTY TRAIL  
PHASE 5C2**

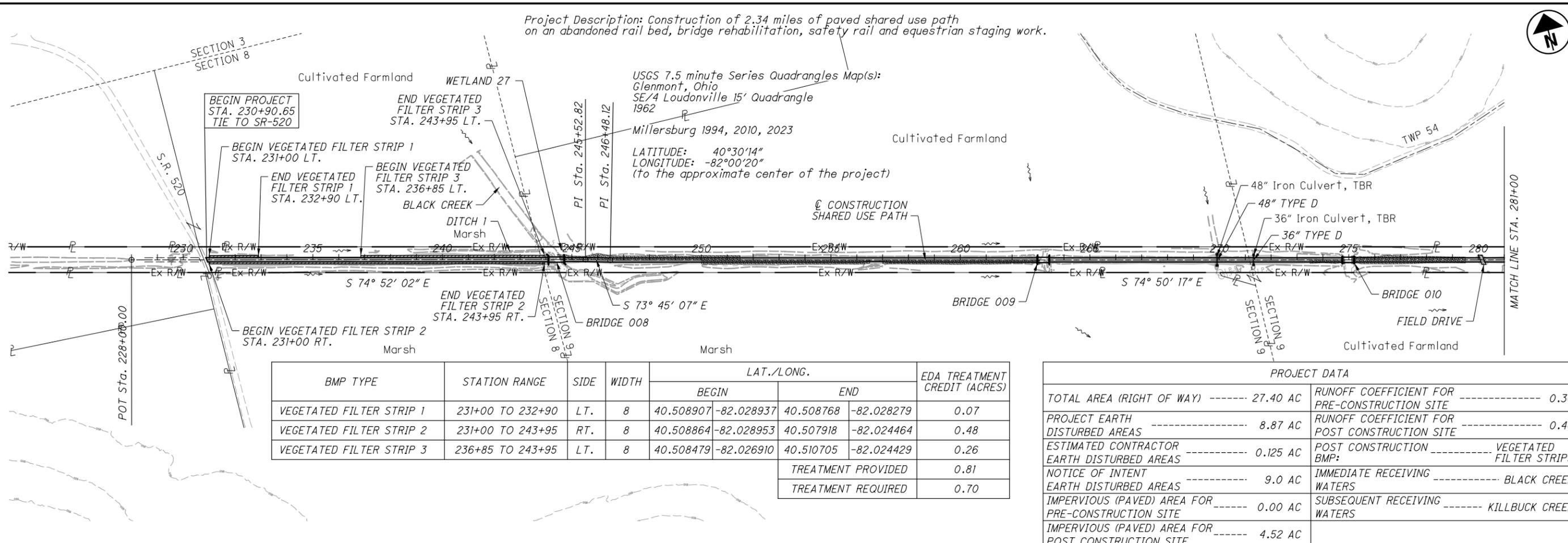
G:\Clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\Design\Drainage\_Sheets\20806\_DE001.dgn Sheet 9/2/2025 10:03 AM A.A. Adair

Project Description: Construction of 2.34 miles of paved shared use path on an abandoned rail bed, bridge rehabilitation, safety rail and equestrian staging work.

USGS 7.5 minute Series Quadrangles Map(s):  
Glenmont, Ohio  
SE/4 Loudonville 15' Quadrangle  
1962

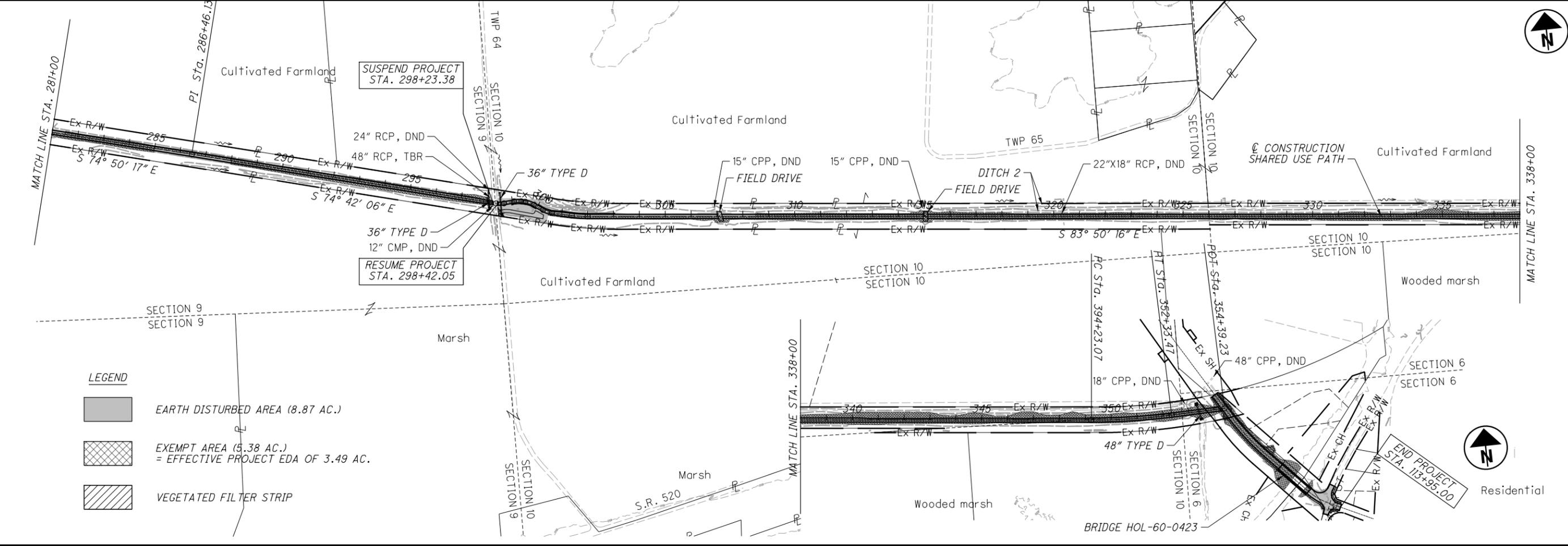
Millersburg 1994, 2010, 2023

LATITUDE: 40°30'14"  
LONGITUDE: -82°00'20"  
(to the approximate center of the project)



BMP TYPE	STATION RANGE	SIDE	WIDTH	LAT./LONG.		EDA TREATMENT CREDIT (ACRES)		
				BEGIN	END			
VEGETATED FILTER STRIP 1	231+00 TO 232+90	LT.	8	40.508907	-82.028937	40.508768	-82.028279	0.07
VEGETATED FILTER STRIP 2	231+00 TO 243+95	RT.	8	40.508864	-82.028953	40.507918	-82.024464	0.48
VEGETATED FILTER STRIP 3	236+85 TO 243+95	LT.	8	40.508479	-82.026910	40.510705	-82.024429	0.26
TREATMENT PROVIDED							0.81	
TREATMENT REQUIRED							0.70	

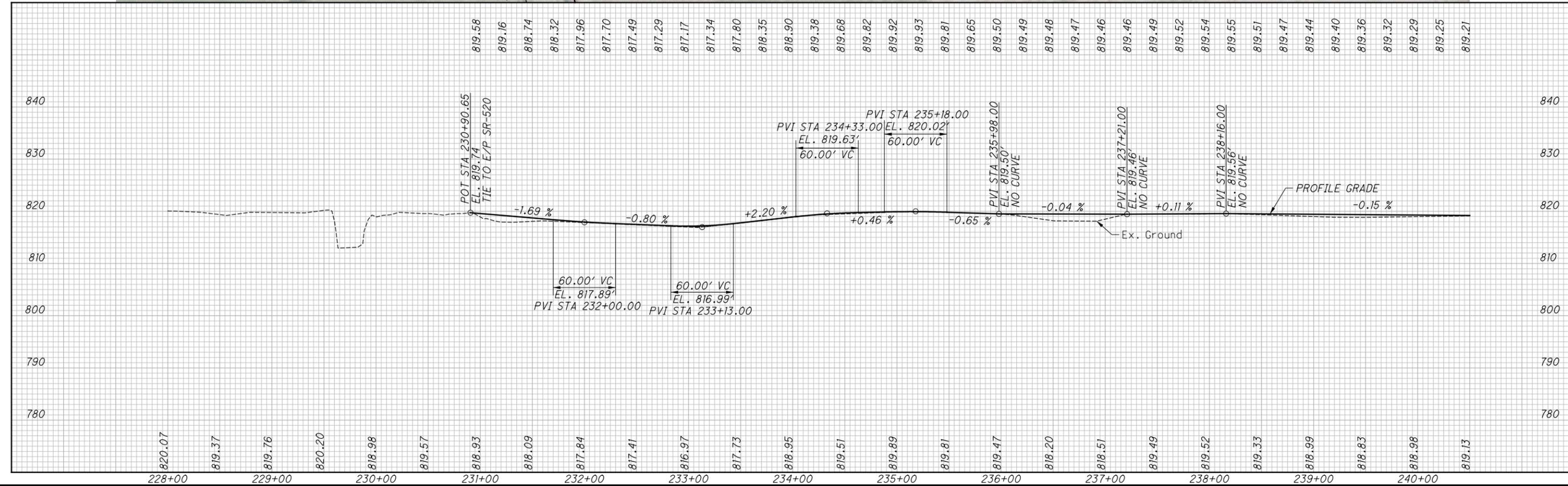
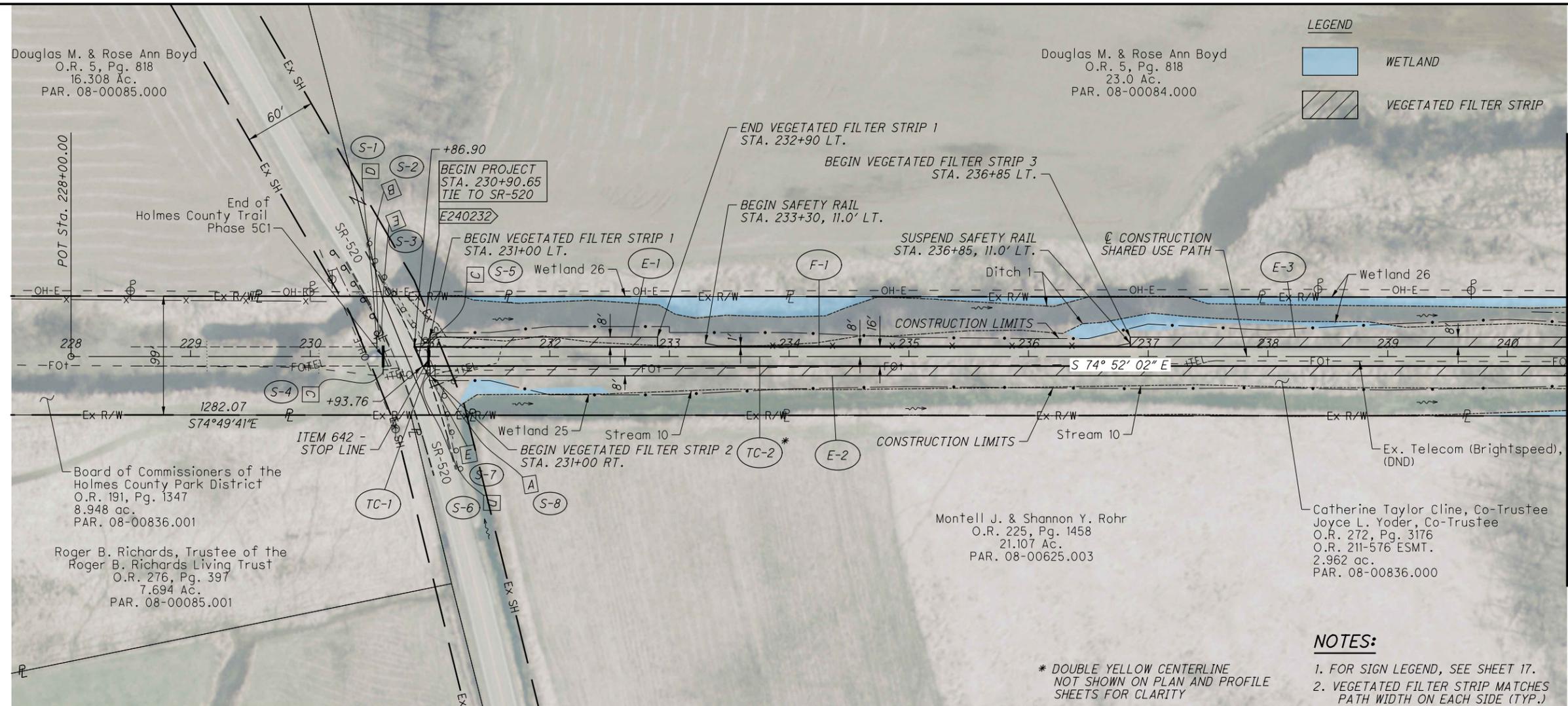
PROJECT DATA	
TOTAL AREA (RIGHT OF WAY)	27.40 AC
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.30
PROJECT EARTH DISTURBED AREAS	8.87 AC
RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.40
ESTIMATED CONTRACTOR EARTH DISTURBED AREAS	0.125 AC
POST CONSTRUCTION BMP:	VEGETATED FILTER STRIPS
NOTICE OF INTENT EARTH DISTURBED AREAS	9.0 AC
IMMEDIATE RECEIVING WATERS	BLACK CREEK
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	0.00 AC
SUBSEQUENT RECEIVING WATERS	KILLBUCK CREEK
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	4.52 AC



LEGEND

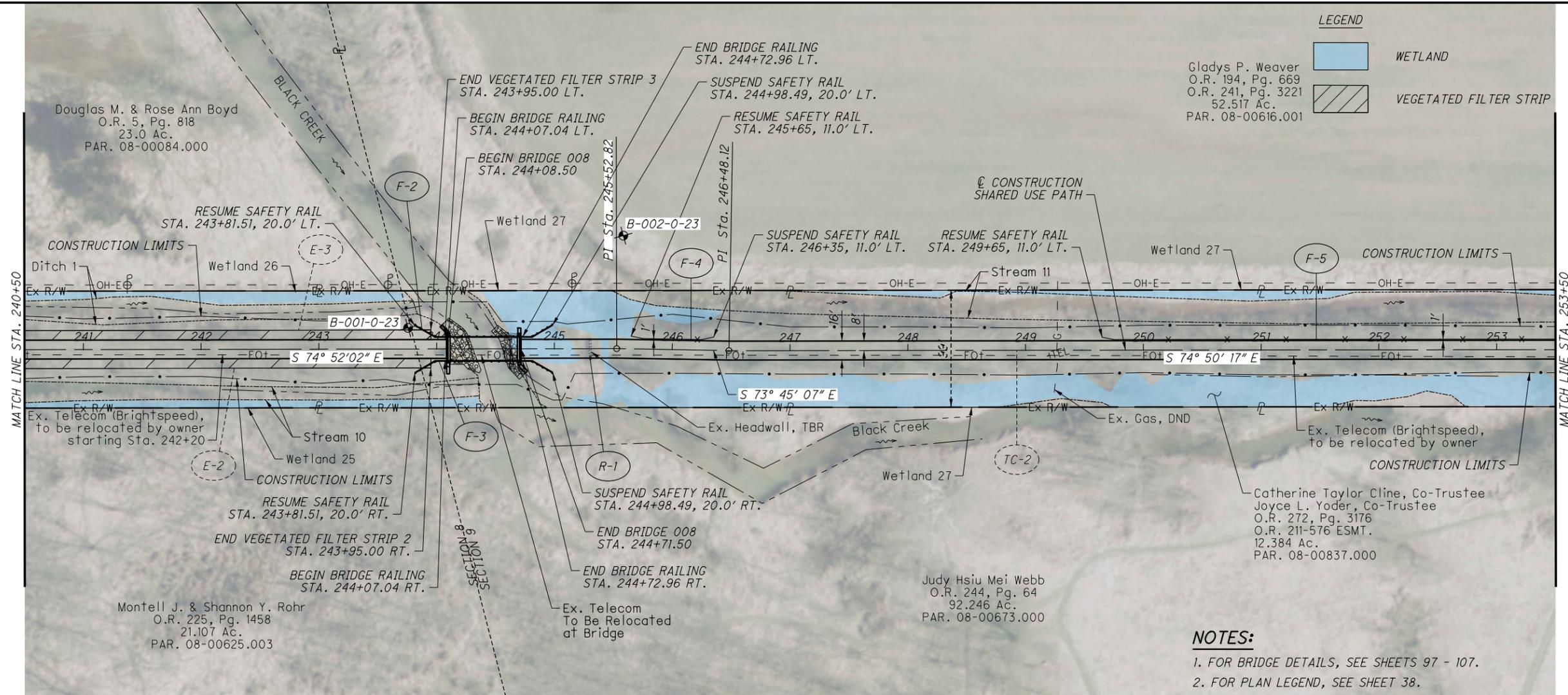
- EARTH DISTURBED AREA (8.87 AC.)
- EXEMPT AREA (3.38 AC.) = EFFECTIVE PROJECT EDA OF 3.49 AC.
- VEGETATED FILTER STRIP

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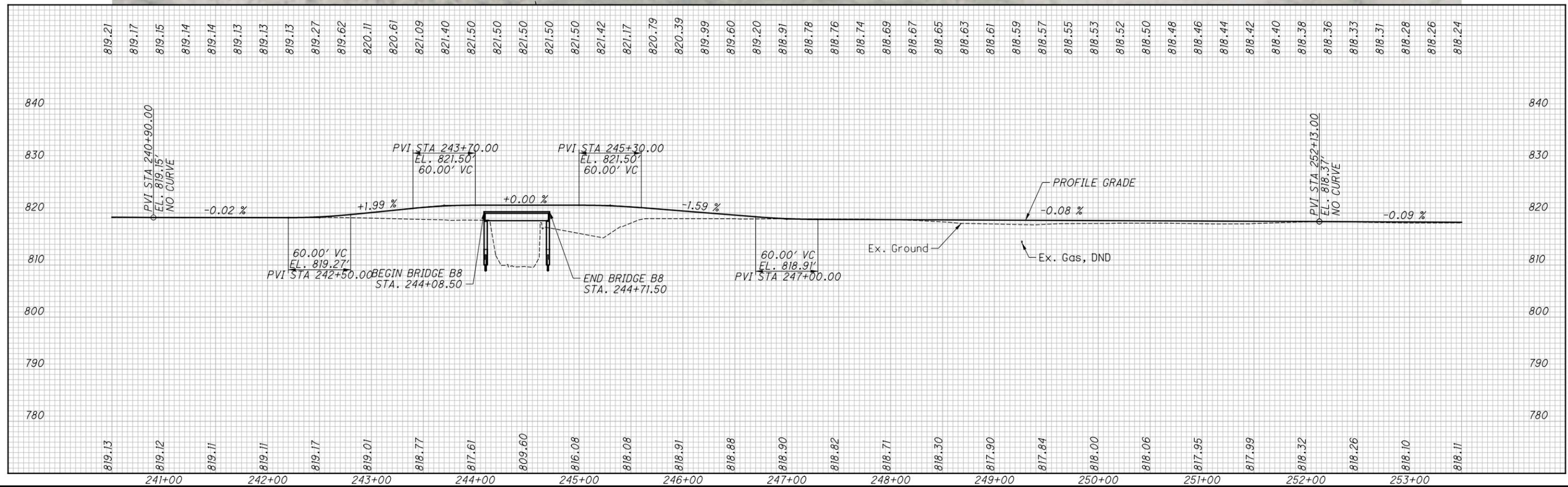


**HOL-COUNTY TRAIL PHASE 5C2**  
**PLAN AND PROFILE**  
**STA. 228+00 TO STA. 240+50**

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**NOTES:**  
 1. FOR BRIDGE DETAILS, SEE SHEETS 97 - 107.  
 2. FOR PLAN LEGEND, SEE SHEET 38.



**LEGEND**

WETLAND

VEGETATED FILTER STRIP

Gladys P. Weaver  
 O.R. 194, Pg. 669  
 O.R. 241, Pg. 3221  
 52.517 Ac.  
 PAR. 08-00616.001

CALCULATED MS  
 CHECKED TML

0 50 100  
 HORIZONTAL SCALE IN FEET

**HOL-COUNTY TRAIL  
 PHASE 5C2**

**PLAN AND PROFILE  
 STA. 240+50 TO STA. 253+50**

Gladys P. Weaver  
 O.R. 194, Pg. 669  
 O.R. 241, Pg. 3221  
 52.517 Ac.  
 PAR. 08-00616.001

Judy Hsiu Mei Webb  
 O.R. 244, Pg. 64  
 92.246 Ac.  
 PAR. 08-00673.000

**LEGEND**

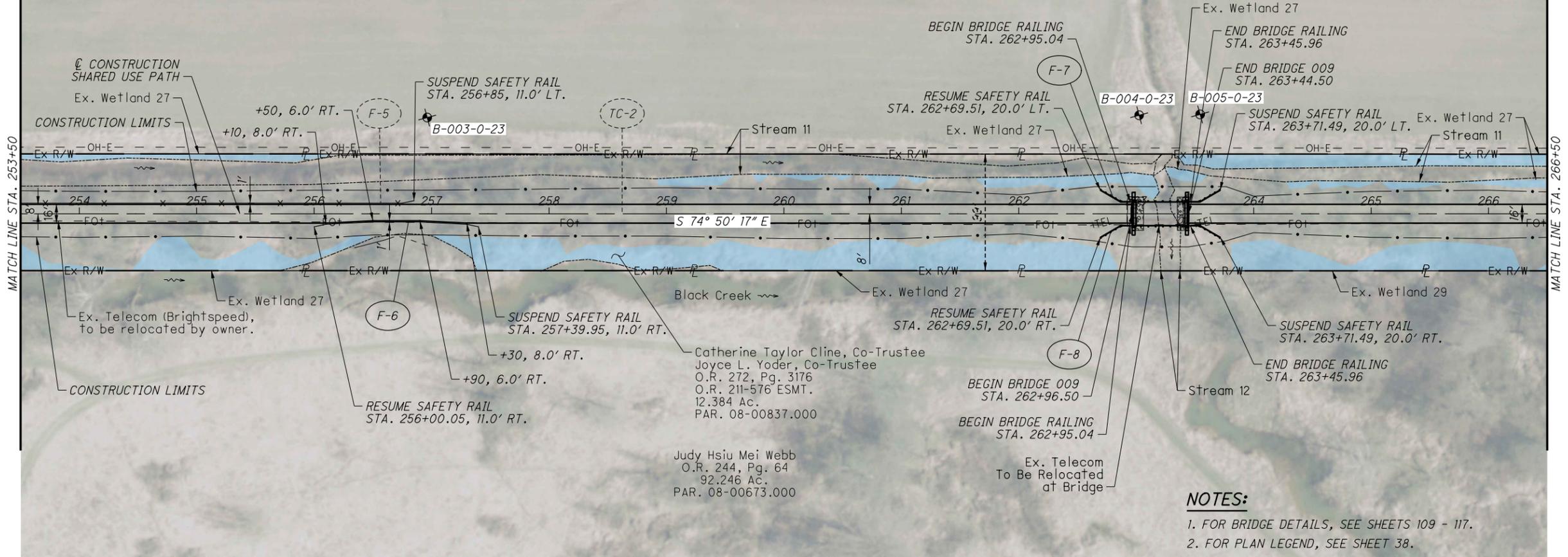
 WETLAND

 VEGETATED FILTER STRIP

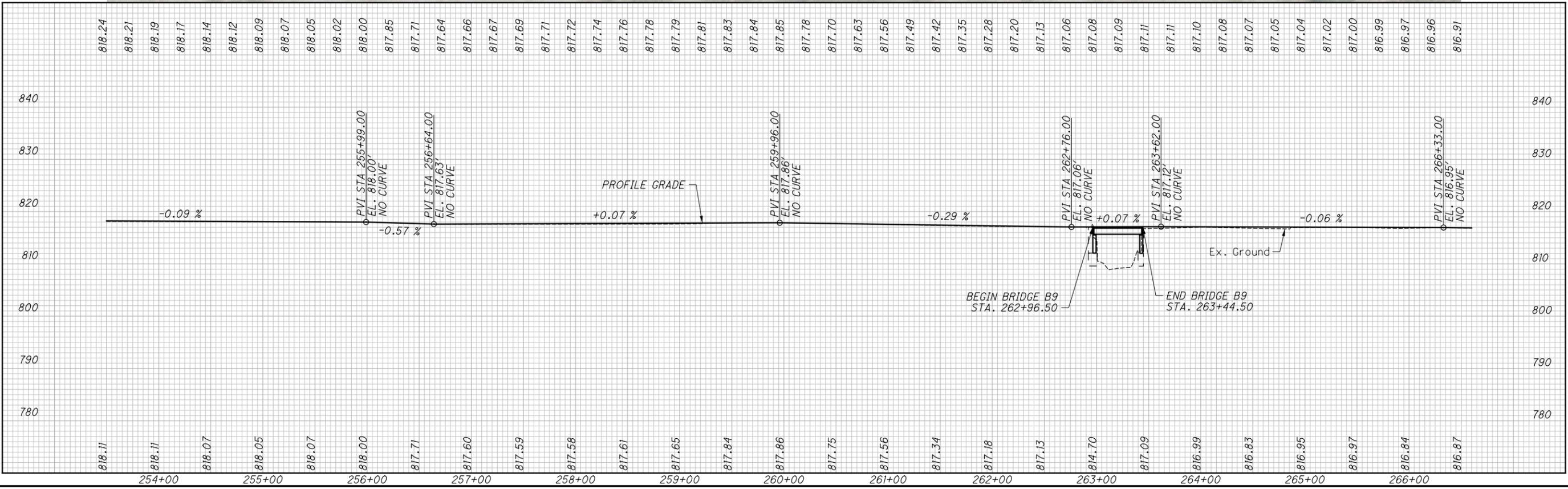
 N

 0 50 100  
 HORIZONTAL SCALE IN FEET

CALCULATED MS  
 CHECKED TML



- NOTES:**
1. FOR BRIDGE DETAILS, SEE SHEETS 109 - 117.
  2. FOR PLAN LEGEND, SEE SHEET 38.



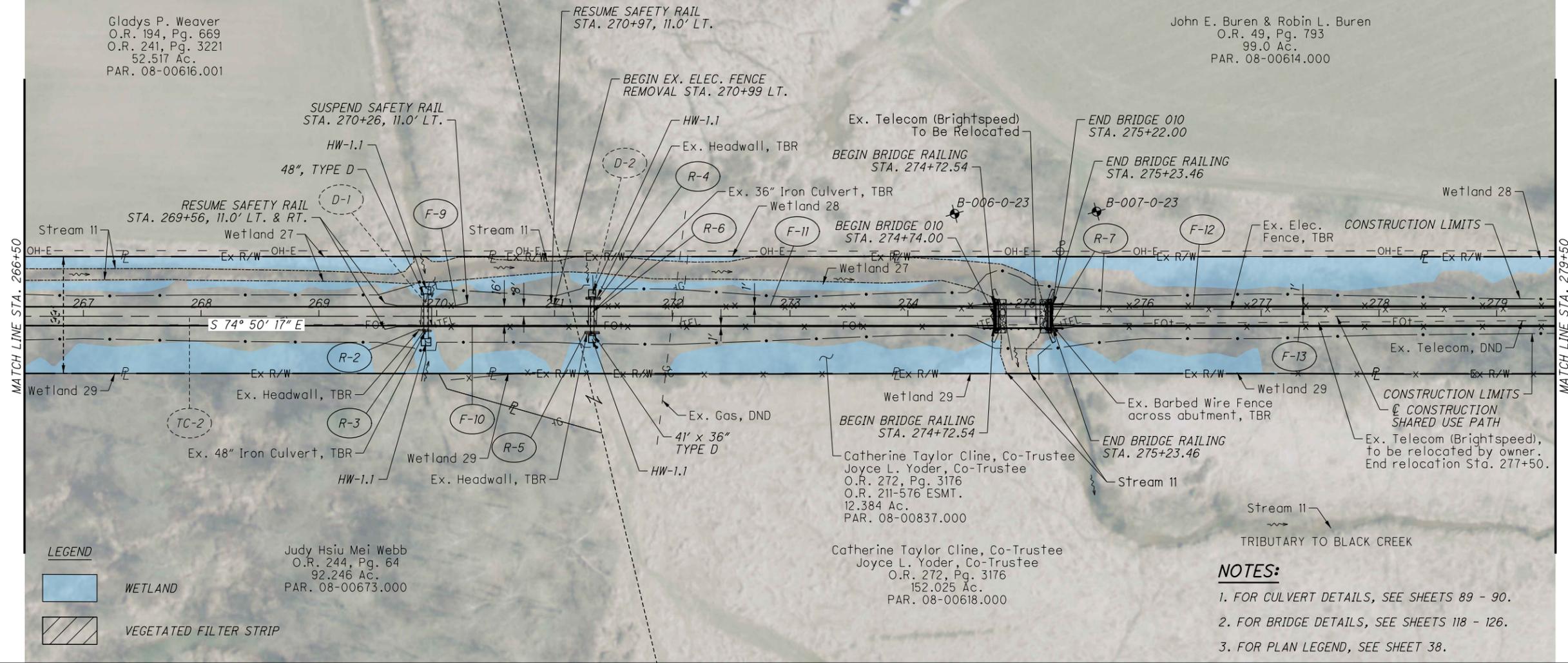
**HOL-COUNTY TRAIL  
 PHASE 5C2**

**PLAN AND PROFILE  
 STA. 253+50 TO STA. 266+50**

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Gladys P. Weaver  
 O.R. 194, Pg. 669  
 O.R. 241, Pg. 3221  
 52.517 Ac.  
 PAR. 08-00616.001

John E. Buren & Robin L. Buren  
 O.R. 49, Pg. 793  
 99.0 Ac.  
 PAR. 08-00614.000



**LEGEND**

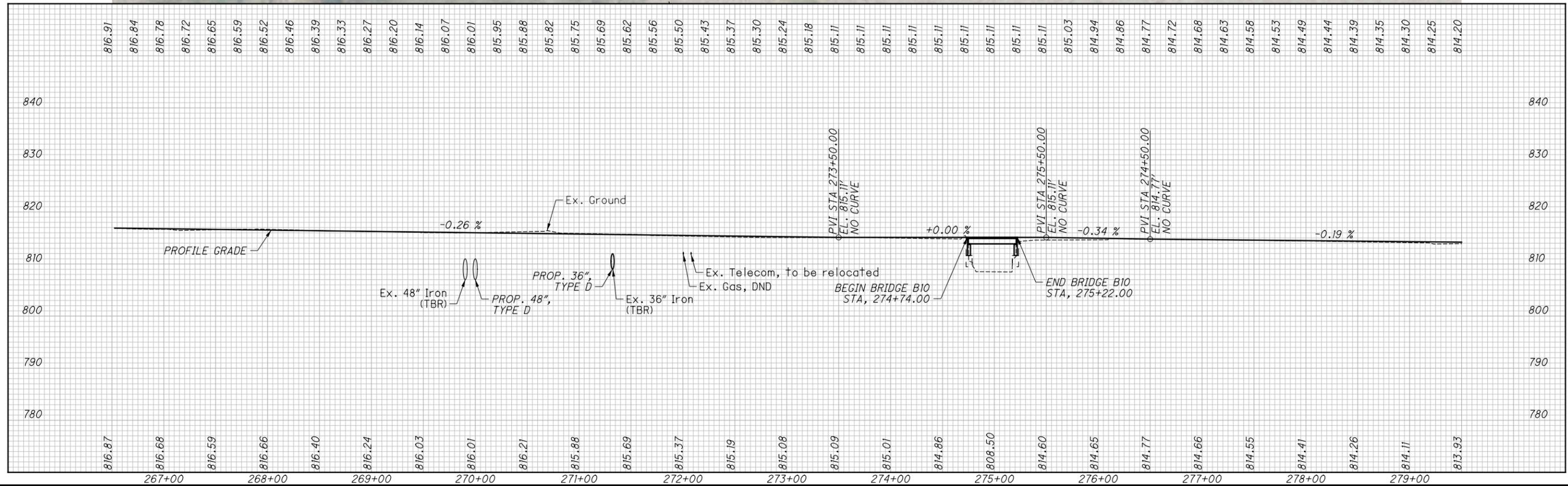
- WETLAND
- VEGETATED FILTER STRIP

Judy Hsiu Mei Webb  
 O.R. 244, Pg. 64  
 92.246 Ac.  
 PAR. 08-00673.000

Catherine Taylor Cline, Co-Trustee  
 Joyce L. Yoder, Co-Trustee  
 O.R. 272, Pg. 3176  
 O.R. 211-576 ESMT.  
 12.384 Ac.  
 PAR. 08-00837.000

**NOTES:**

1. FOR CULVERT DETAILS, SEE SHEETS 89 - 90.
2. FOR BRIDGE DETAILS, SEE SHEETS 118 - 126.
3. FOR PLAN LEGEND, SEE SHEET 38.



CALCULATED MS  
 CHECKED TML

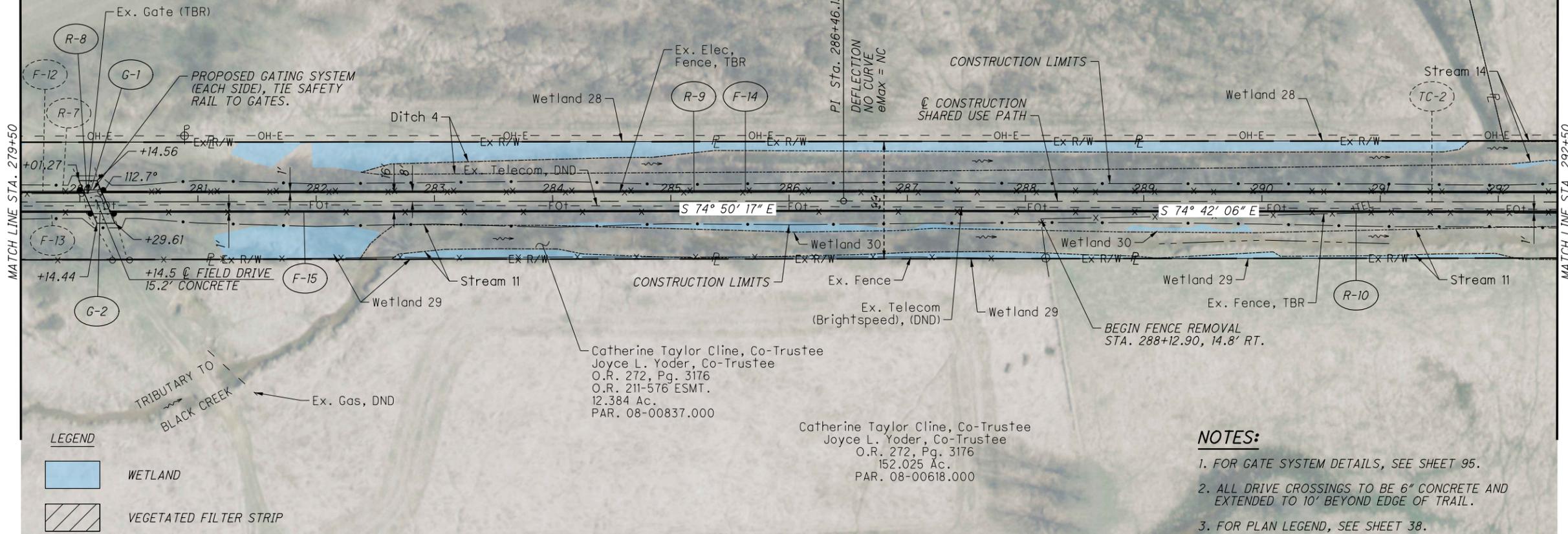
**HOL-COUNTY TRAIL  
 PHASE 5C2  
 PLAN AND PROFILE  
 STA. 266+50 TO STA. 279+50**

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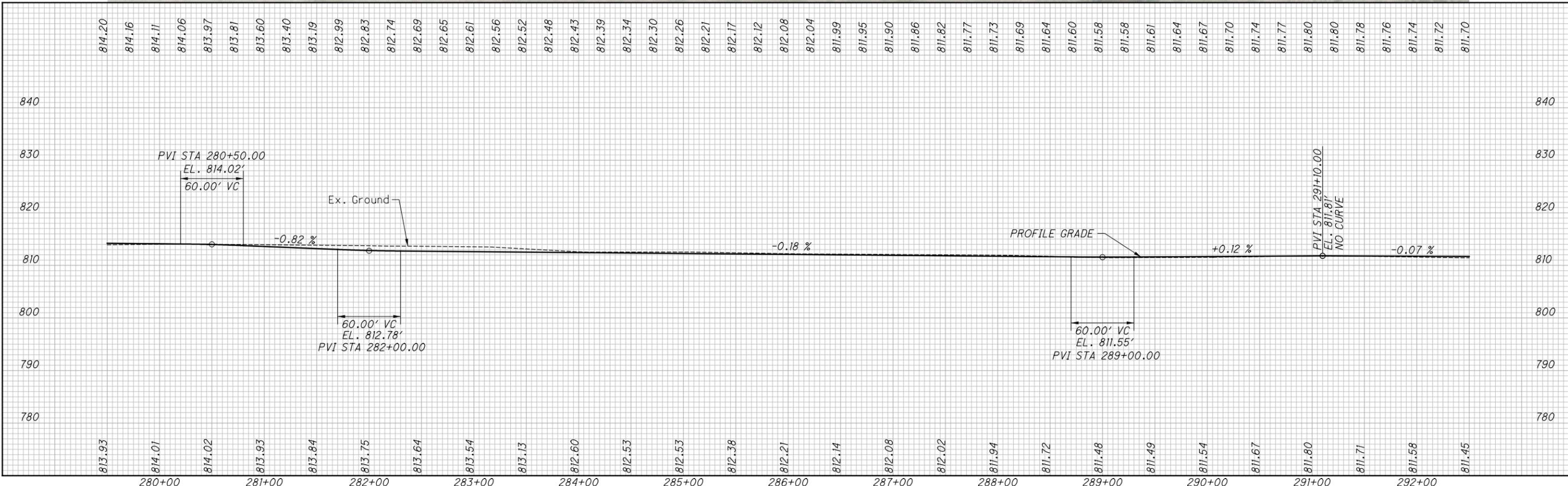
John E. Buren & Robin L. Buren  
 O.R. 49, Pg. 793  
 99.0 Ac.  
 PAR. 08-00614.000

Catherine Taylor Cline, Co-Trustee  
 Joyce L. Yoder, Co-Trustee  
 O.R. 272, Pg. 3176  
 O.R. 211-576 ESMT.  
 12.384 Ac.  
 PAR. 08-00837.000

Catherine Taylor Cline, Co-Trustee  
 Joyce L. Yoder, Co-Trustee  
 O.R. 272, Pg. 3176  
 152.025 Ac.  
 PAR. 08-00618.000



- NOTES:**
1. FOR GATE SYSTEM DETAILS, SEE SHEET 95.
  2. ALL DRIVE CROSSINGS TO BE 6" CONCRETE AND EXTENDED TO 10' BEYOND EDGE OF TRAIL.
  3. FOR PLAN LEGEND, SEE SHEET 38.

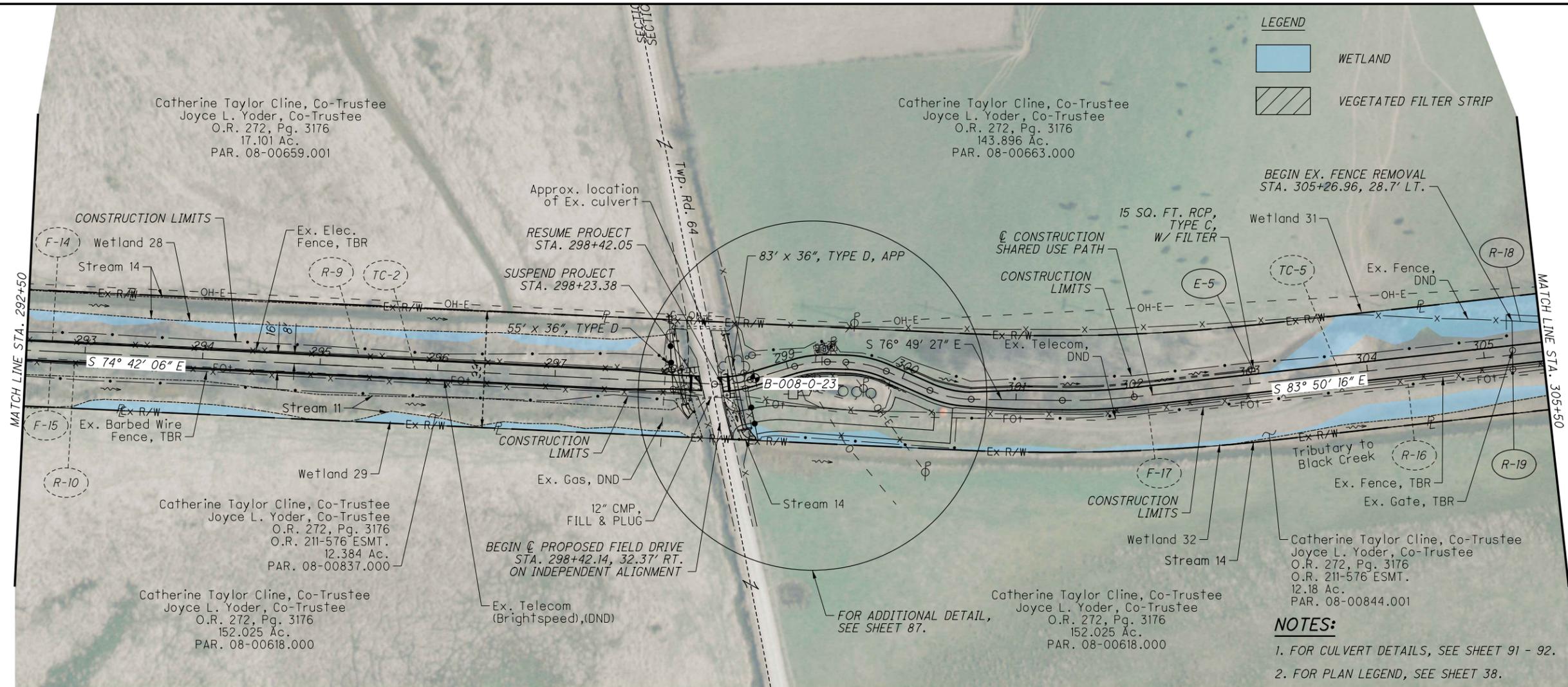


CALCULATED MS  
 CHECKED TML

**HOL-COUNTY TRAIL  
 PHASE 5C2  
 PLAN AND PROFILE  
 STA. 279+50 TO STA. 292+50**

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_GPI05.dgn 86052\_GPI05 10/1/2025 12:19:54 PM Less

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_GPI06.dgn 86052\_GPI06 10/1/2025 12:21:56 PM Less



**LEGEND**

WETLAND

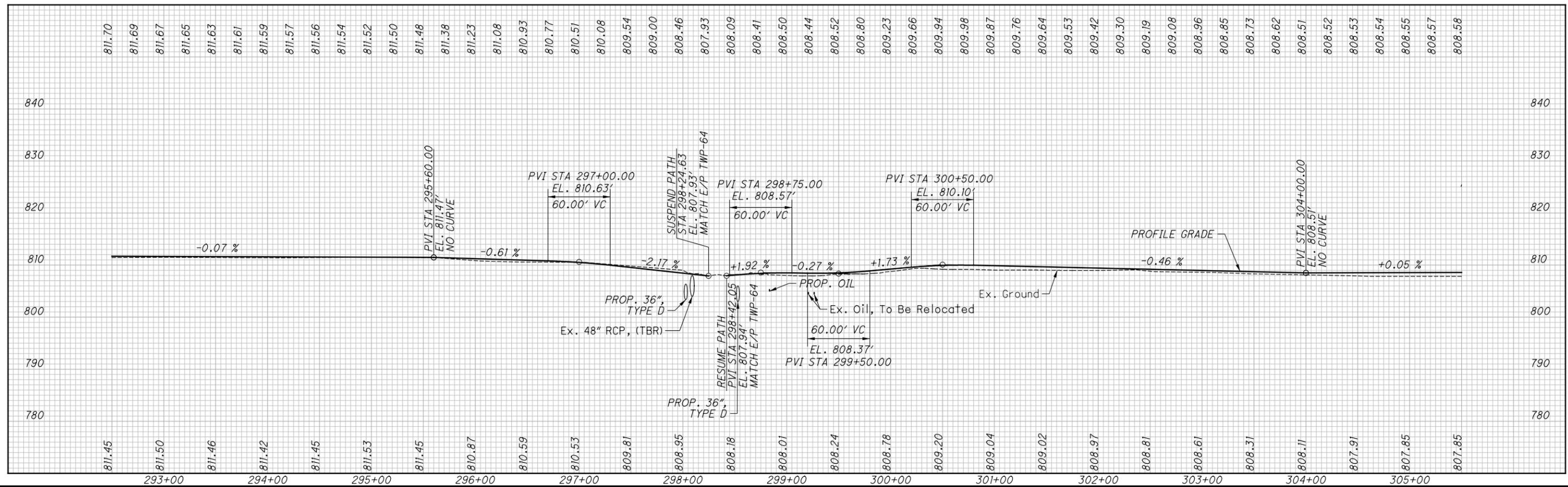
VEGETATED FILTER STRIP

**SCALE**

0 50 100  
HORIZONTAL SCALE IN FEET

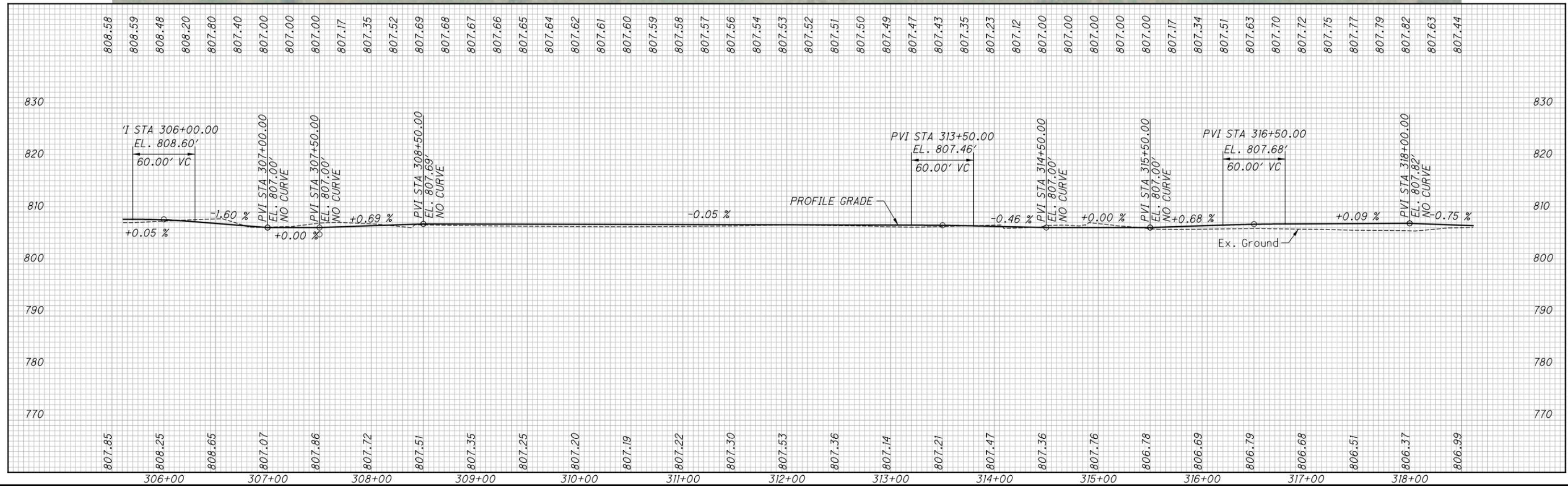
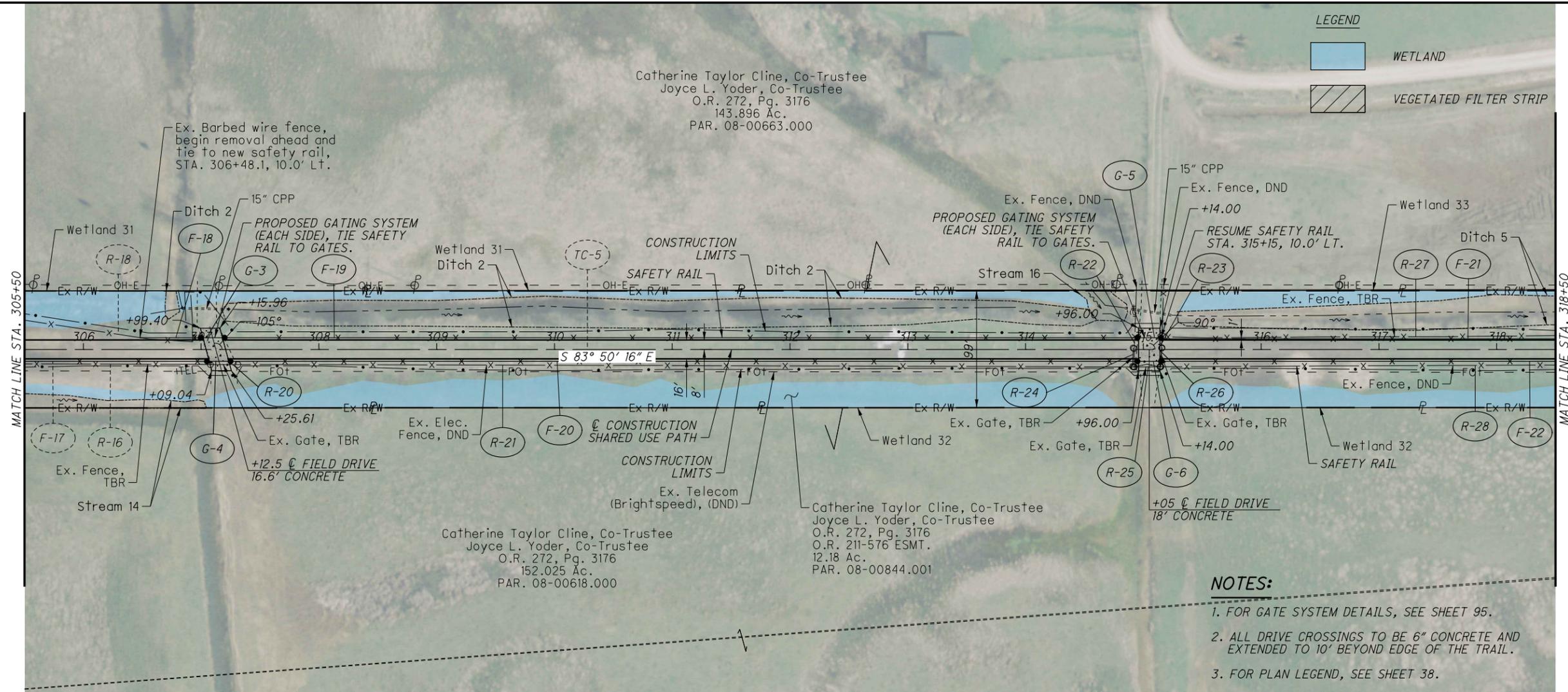
CALCULATED MS  
CHECKED TML

- NOTES:**
1. FOR CULVERT DETAILS, SEE SHEET 91 - 92.
  2. FOR PLAN LEGEND, SEE SHEET 38.

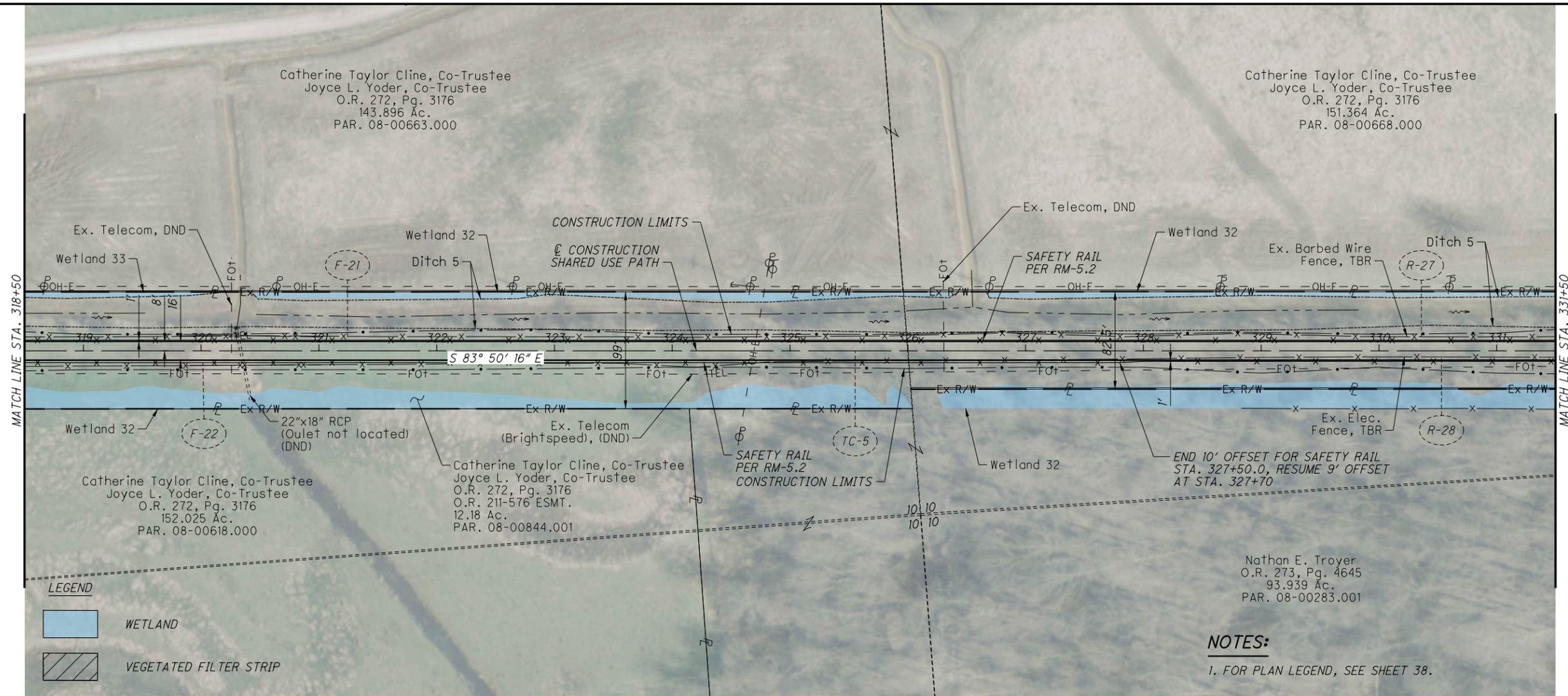


**PLAN AND PROFILE**  
**STA. 292+50 TO STA. 305+50**

**HOL-COUNTY TRAIL**  
**PHASE 5C2**



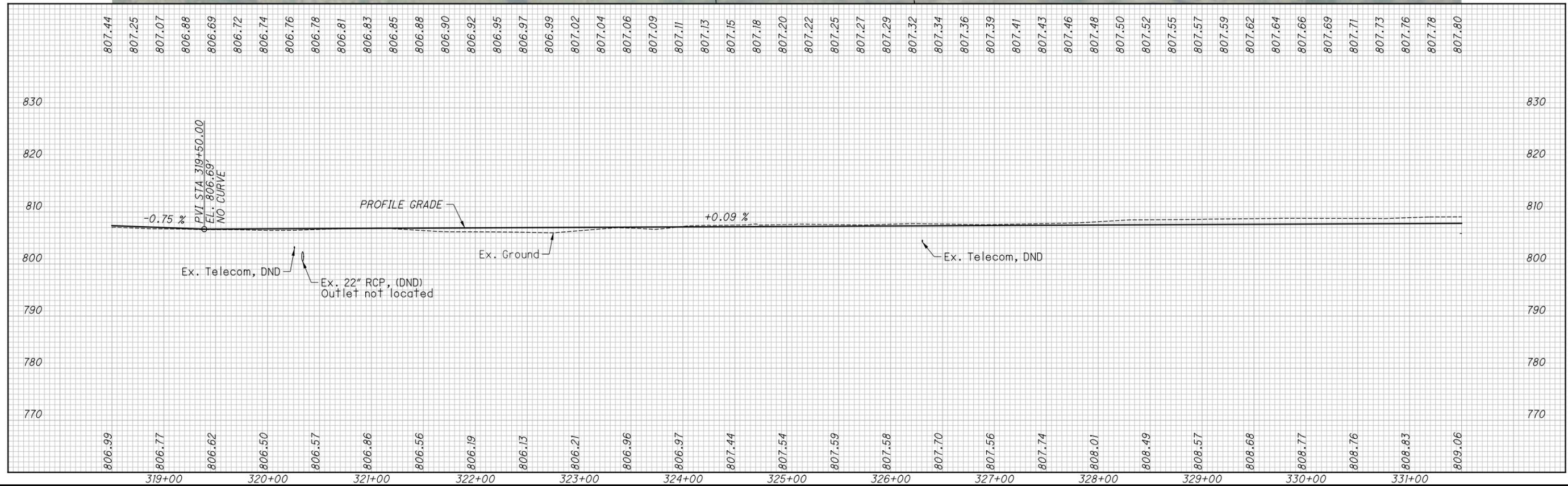
G:\DE\clients\04\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_GPI08.dgn 86052\_GPI08 10/1/2025 12:31:38 PM Less



**LEGEND**

	WETLAND
	VEGETATED FILTER STRIP

**NOTES:**  
1. FOR PLAN LEGEND, SEE SHEET 38.

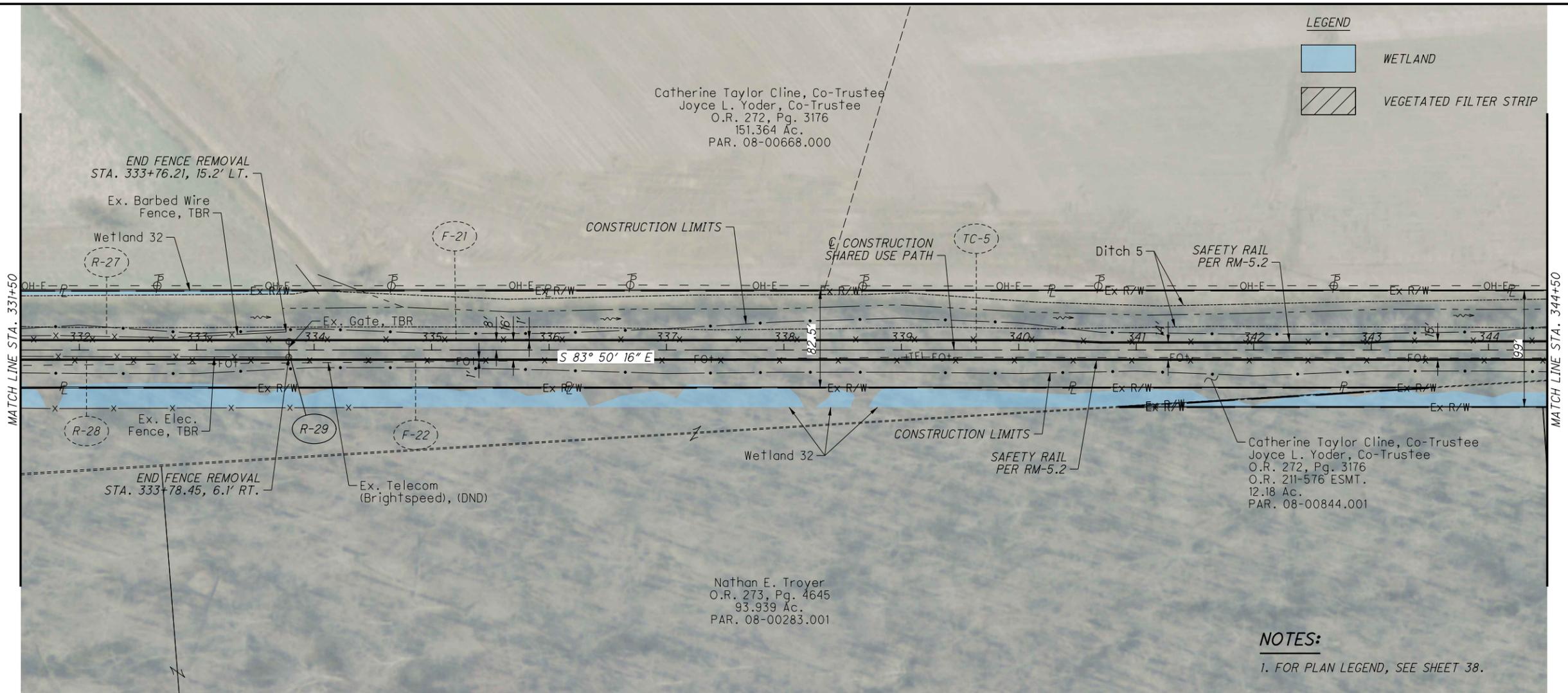


CALCULATED MS  
CHECKED TML

**HOL-COUNTY TRAIL  
PHASE 5C2**

**PLAN AND PROFILE  
STA. 318+50 TO STA. 331+50**

G:\DE\clients\04\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_GPI09.dgn 86052\_GPI09 10/1/2025 12:30:23 PM Less



**LEGEND**

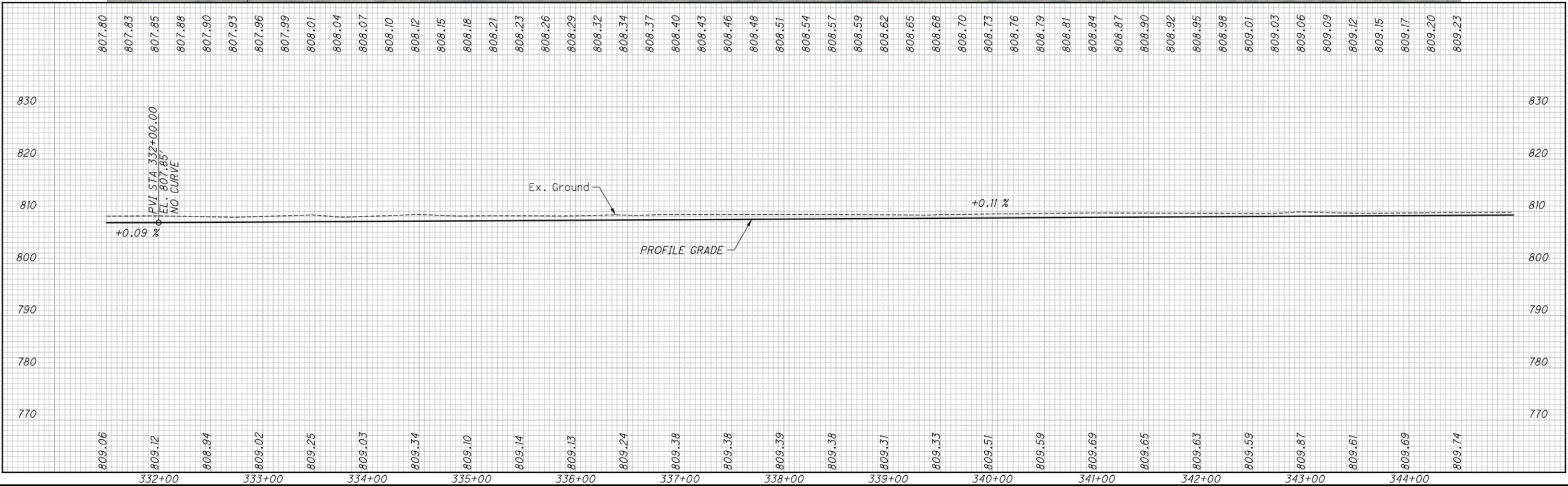
- WETLAND
- VEGETATED FILTER STRIP

CALCULATED MS  
CHECKED TML

0 50 100  
25  
HORIZONTAL SCALE IN FEET

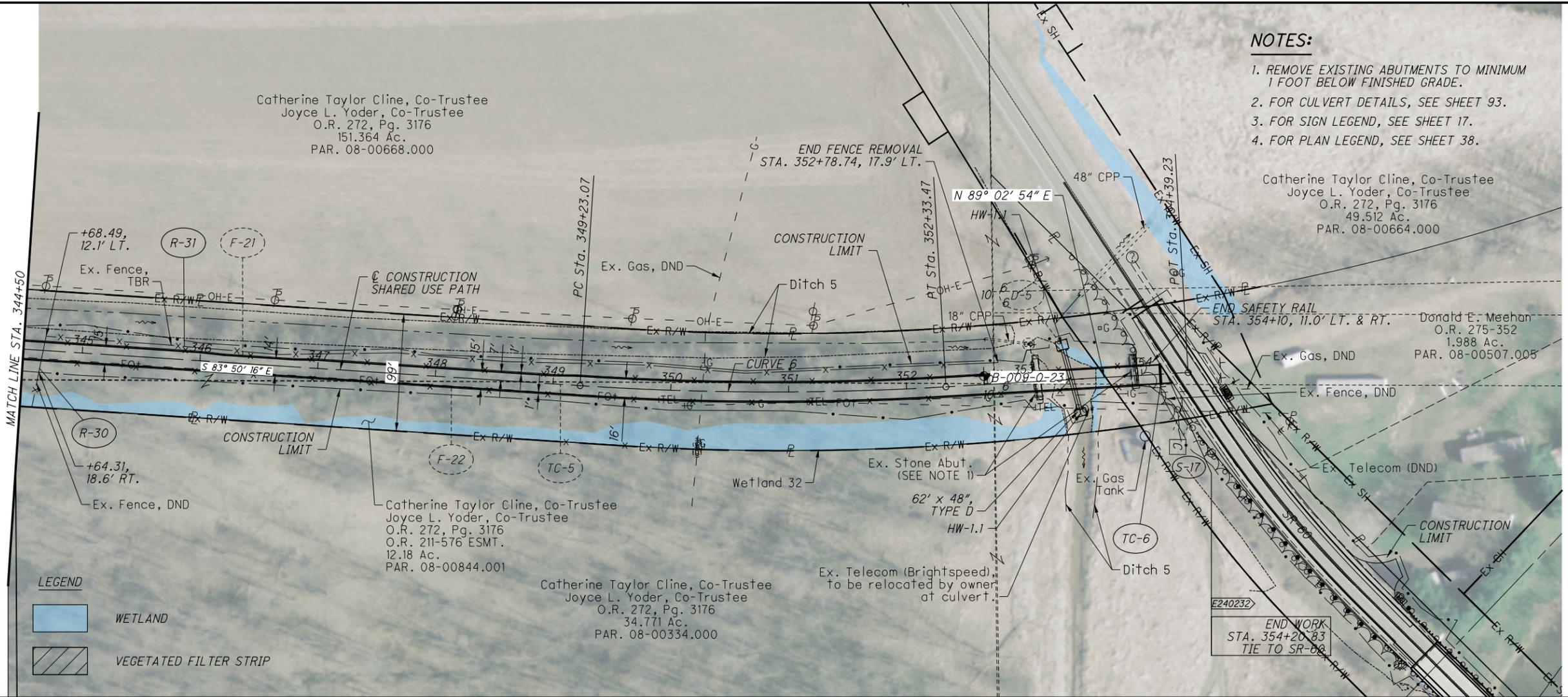
**PLAN AND PROFILE**  
**STA. 331+50 TO STA. 344+50**

**NOTES:**  
1. FOR PLAN LEGEND, SEE SHEET 38.



**HOL-COUNTY TRAIL**  
**PHASE 5C2**

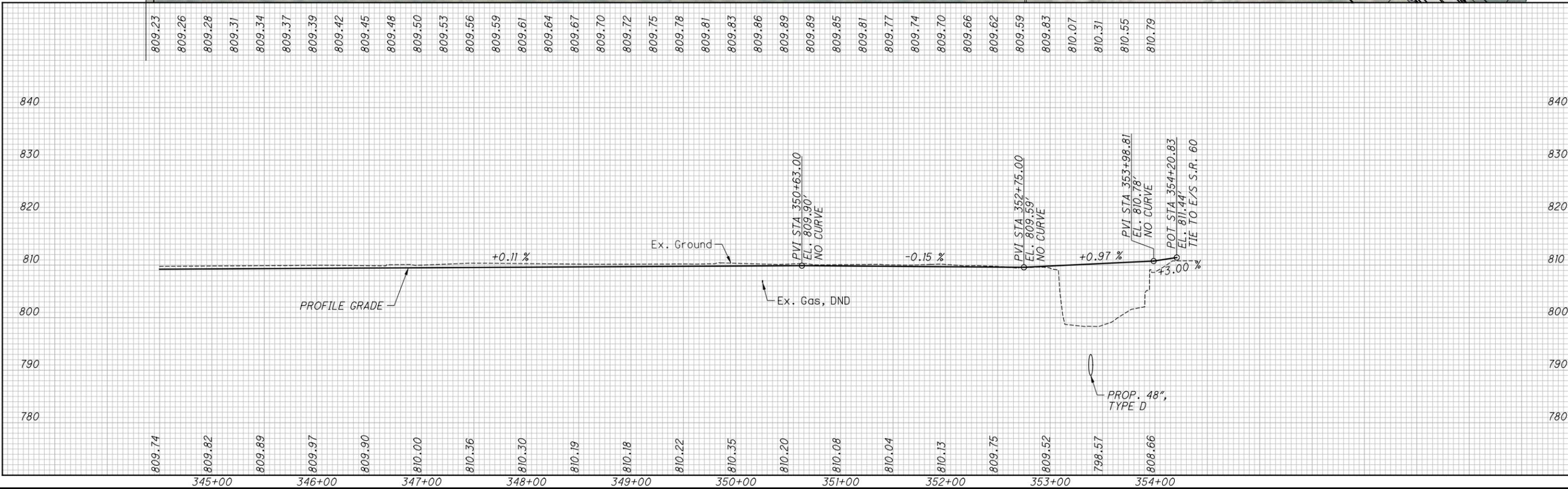
46  
133



- NOTES:**
1. REMOVE EXISTING ABUTMENTS TO MINIMUM 1 FOOT BELOW FINISHED GRADE.
  2. FOR CULVERT DETAILS, SEE SHEET 93.
  3. FOR SIGN LEGEND, SEE SHEET 17.
  4. FOR PLAN LEGEND, SEE SHEET 38.

**LEGEND**

- WETLAND
- VEGETATED FILTER STRIP



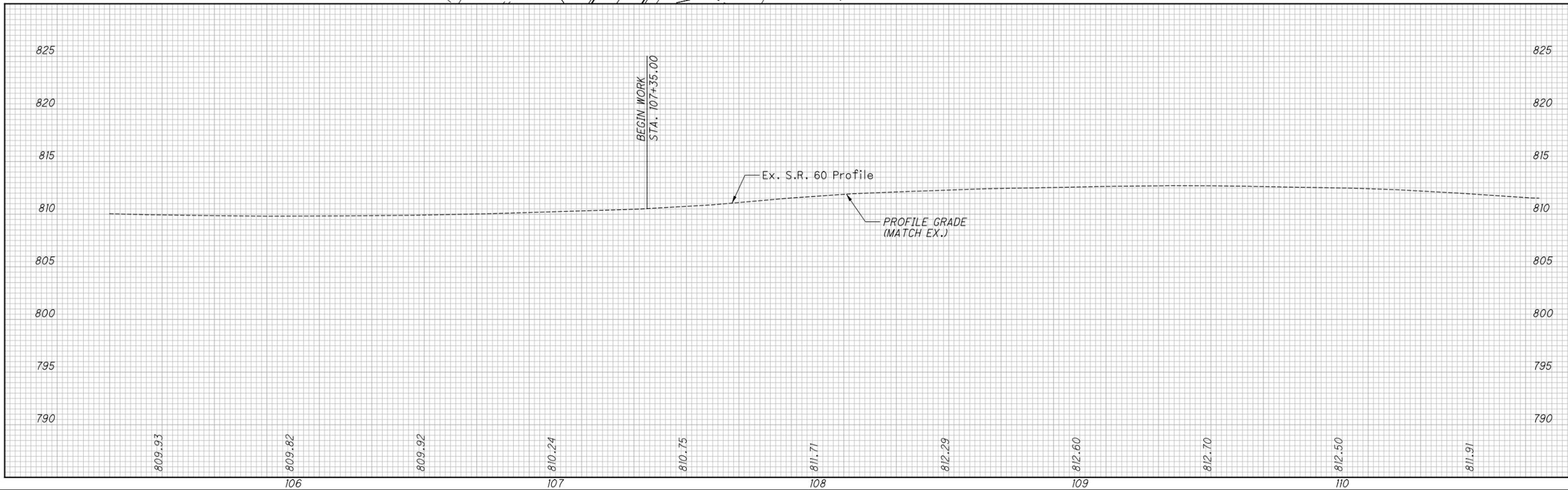
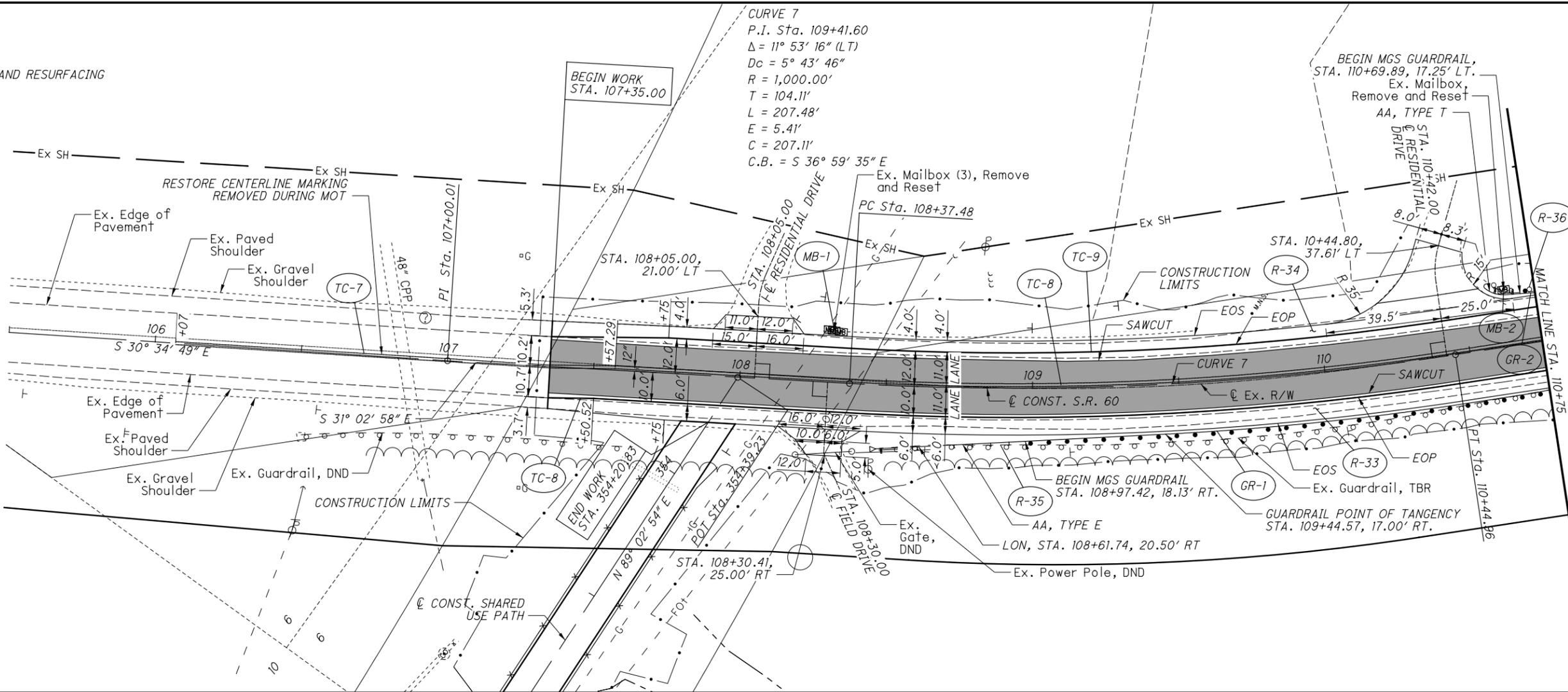
**HOL-COUNTY TRAIL  
PHASE 5C2**

**PLAN AND PROFILE  
STA. 344+50 TO STA. 354+39.23**

47  
133

LEGEND

PLANING AND RESURFACING



PLAN AND PROFILE S.R. 60  
 STA. 105+50 TO 110+75

HOL-COUNTY TRAIL  
 PHASE 5C2

W:\Srv\in\Dayton\Clients\OH\_Holmes County\_Park\0022288\_SR60\20806\_Sheet\Roadway\Design\SR60\20806\_Sheet.dgn 9/2/2025 10:11:01 AM A.Adair

LEGEND

PLANING AND RESURFACING

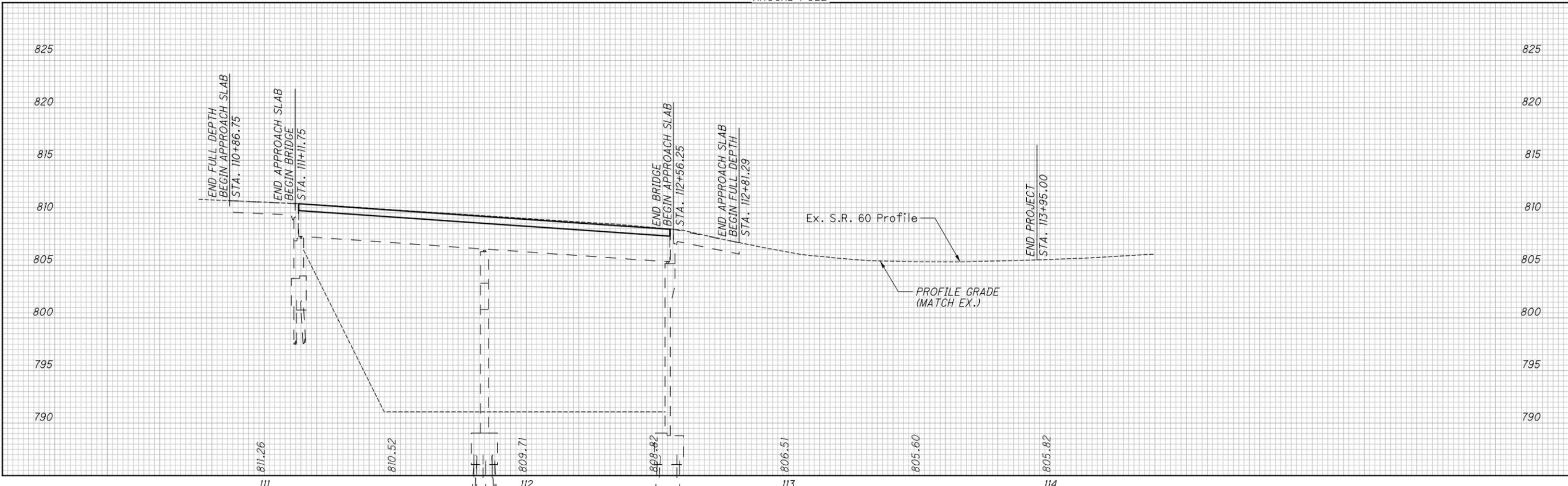
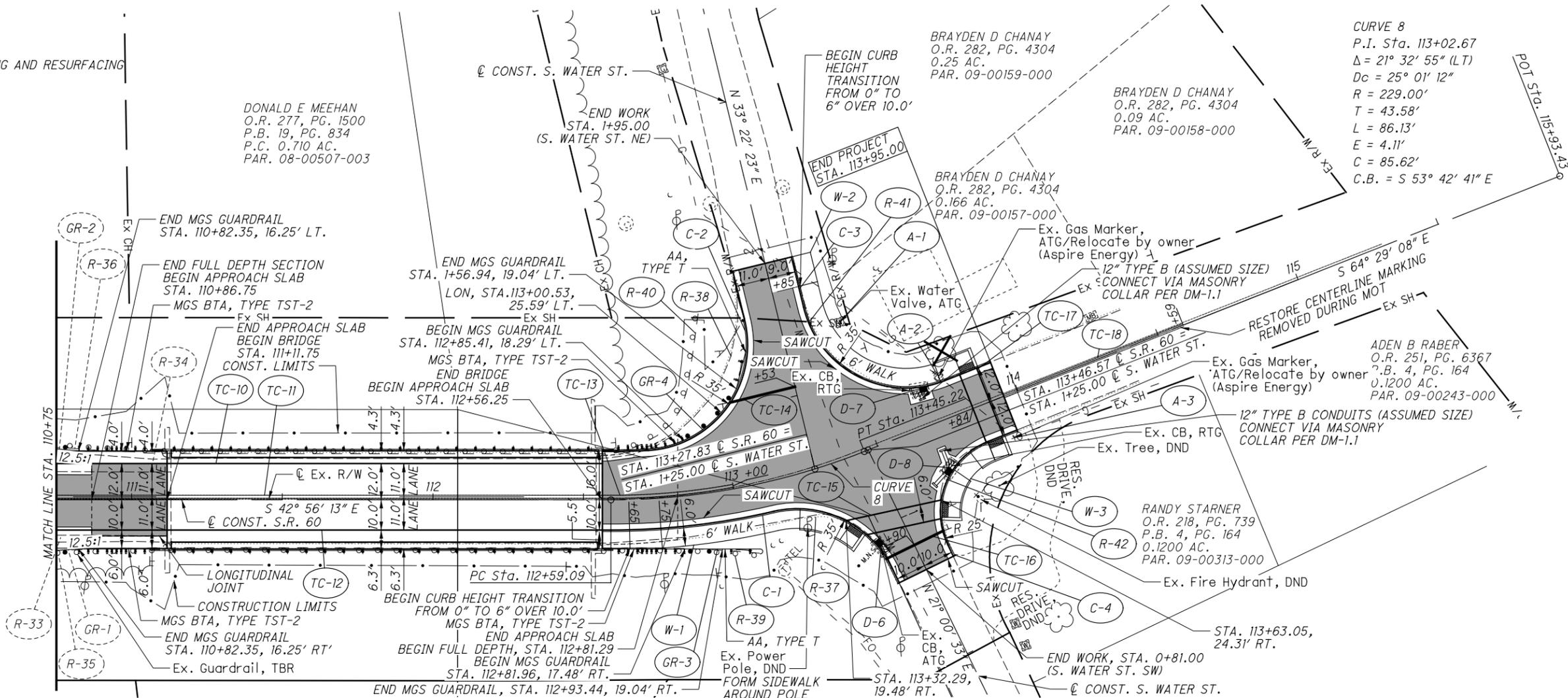
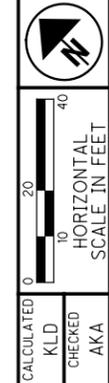
DONALD E MEEHAN  
O.R. 277, PG. 1500  
P.B. 19, PG. 834  
P.C. 0.710 AC.  
PAR. 08-00507-003

BRAYDEN D CHANAY  
O.R. 282, PG. 4304  
0.25 AC.  
PAR. 09-00159-000

BRAYDEN D CHANAY  
O.R. 282, PG. 4304  
0.09 AC.  
PAR. 09-00158-000

BRAYDEN D CHANAY  
O.R. 282, PG. 4304  
0.166 AC.  
PAR. 09-00157-000

CURVE 8  
P.I. Sta. 113+02.67  
 $\Delta = 21^\circ 32' 55''$  (LT)  
 $D_c = 25^\circ 01' 12''$   
 $R = 229.00'$   
 $T = 43.58'$   
 $L = 86.13'$   
 $E = 4.11'$   
 $C = 85.62'$   
 $C.B. = S 53^\circ 42' 41'' E$



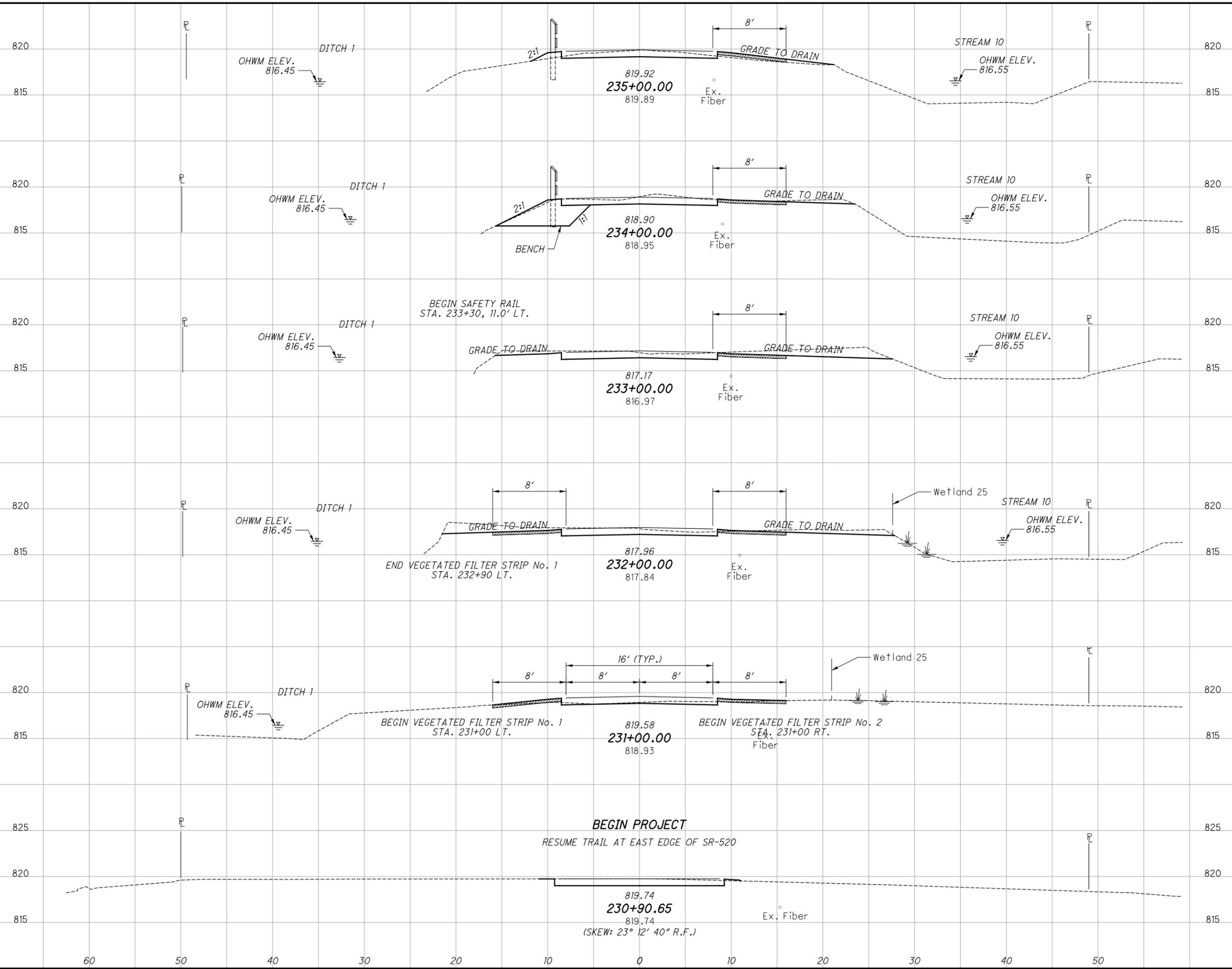
HOL-COUNTY TRAIL  
PHASE 5C2

PLAN AND PROFILE S.R. 60  
STA. 110+75 TO STA. 115+00

W:\Srv\in\Dayton\Clients\OH\_Holmes County Par\ks\0022288\_SR60\20806\_SR60\Design\Roadway\Sheets\20806\_GPI02.dgn 86052\_GPI03 10/1/2025 12:52:24 PM Less

G:\DE\clients\04\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10.dgn Sheet 9/2/2025 10:06 AM A.A. Adair

SEEDING	
END WIDTH	SO. YDS.
1591	60
	50
	40
	30
	20
	10
	0
	10
	20
	30
	40
	50



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		260	42

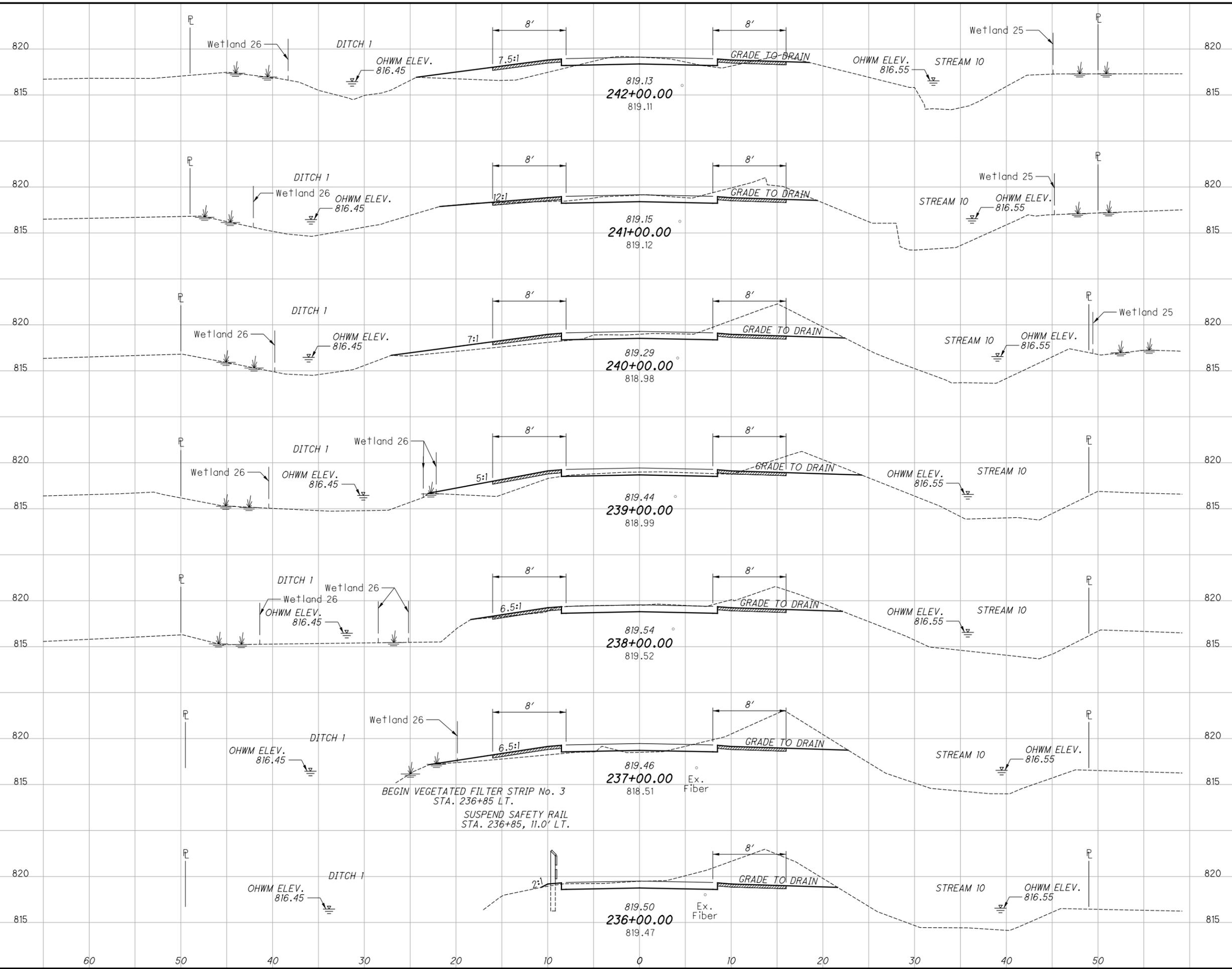
**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 230+90.65 TO STA. 235+00.00**

CALCULATED MS  
 CHECKED TML

50  
 133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10.dgn Sheet 9/2/2025 10:10 AM A.Adir

SEEDING	
END WIDTH	SO. YDS.
2683	



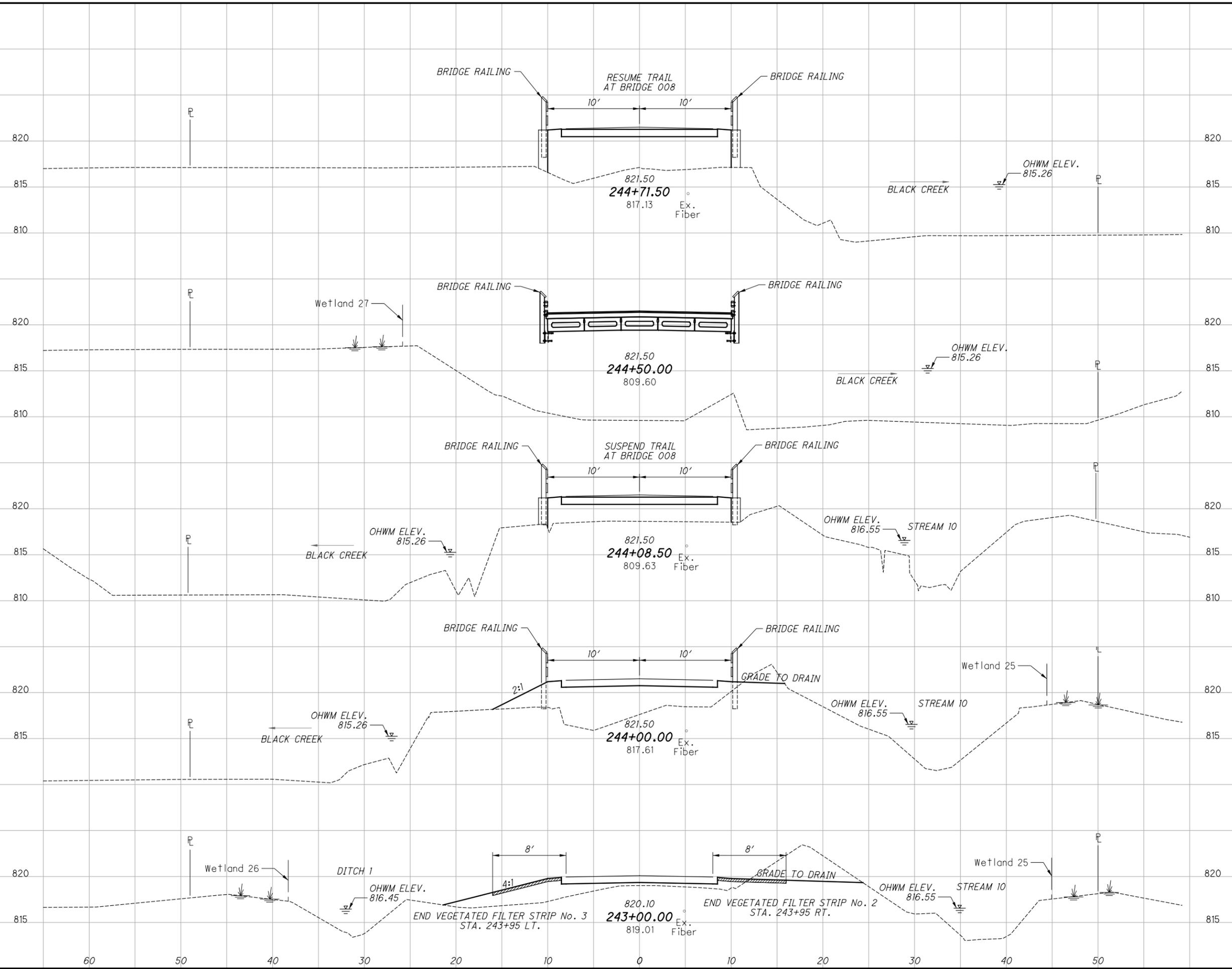
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		666	151

**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 236+00.00 TO STA. 242+00.00**

CALCULATED MS  
 CHECKED TML  
 51  
 133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:13 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
672	



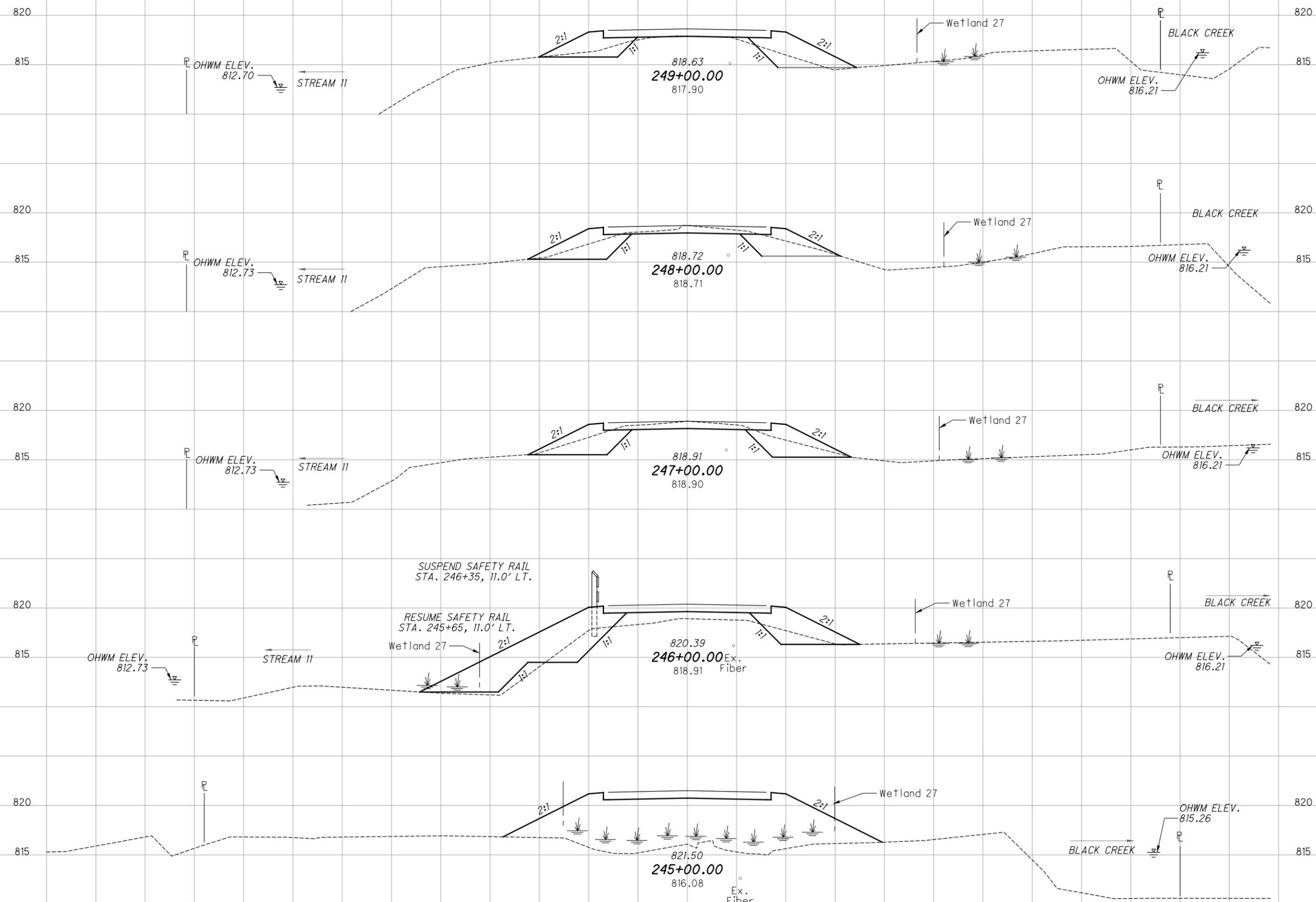
END AREA		VOLUME		CALCULATED MS	CHECKED TML
CUT	FILL	CUT	FILL		
		202	295		

**HOL-COUNTY TRAIL PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 243+00.00 TO STA. 244+71.50**

G:\DE\clients\OH\_Holmes County Parks\1002372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:17 AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED MS  
CHECKED TML



1510	60	50	40	30	20	10	0	10	20	30	40	50	52	497
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**CROSS SECTIONS**  
**STA. 245+00.00 TO STA. 249+00.00**

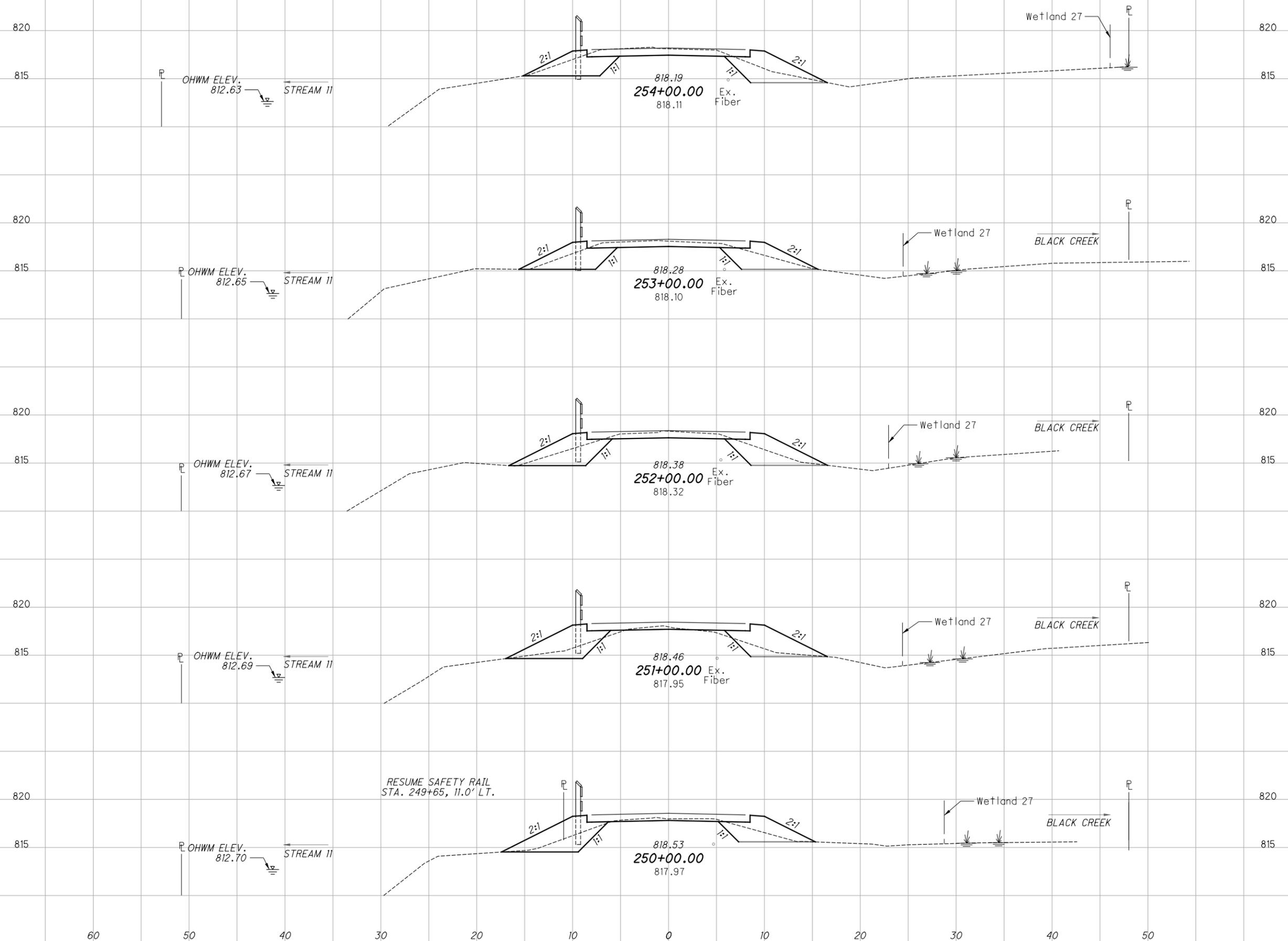
**HOL-COUNTY TRAIL**  
**PHASE 5C2**

53  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:12:20 AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED MS  
CHECKED TML



1351

60 50 40 30 20 10 0 10 20 30 40 50

102 350

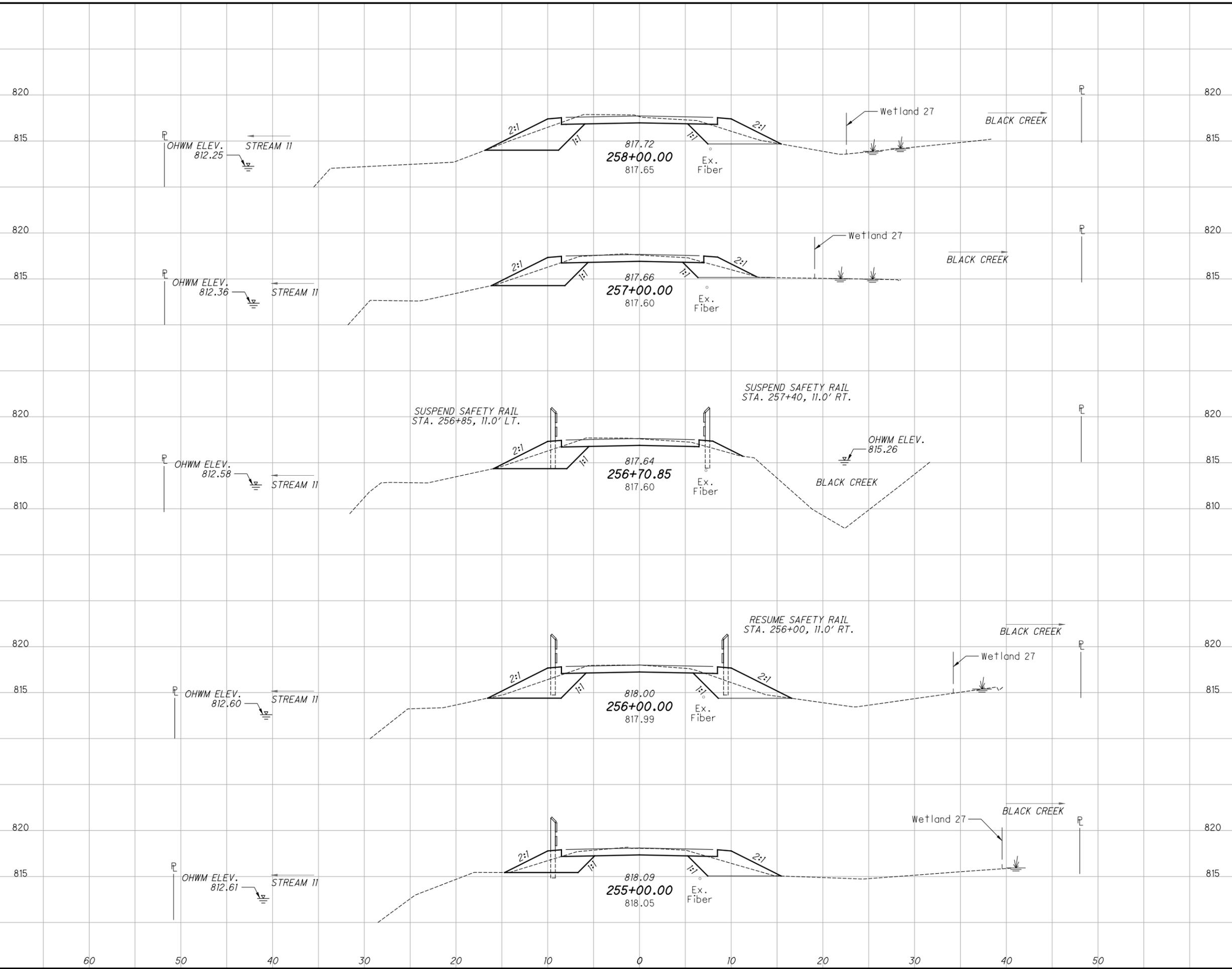
CROSS SECTIONS  
STA. 250+00.00 TO STA. 254+00.00

HOL-COUNTY TRAIL  
PHASE 5C2

54  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS101.dgn Sheet 9/2/2025 10:12:24 AM A.A. Adair

SEEDING	
END WIDTH	SO. YDS.
1046	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		159	162

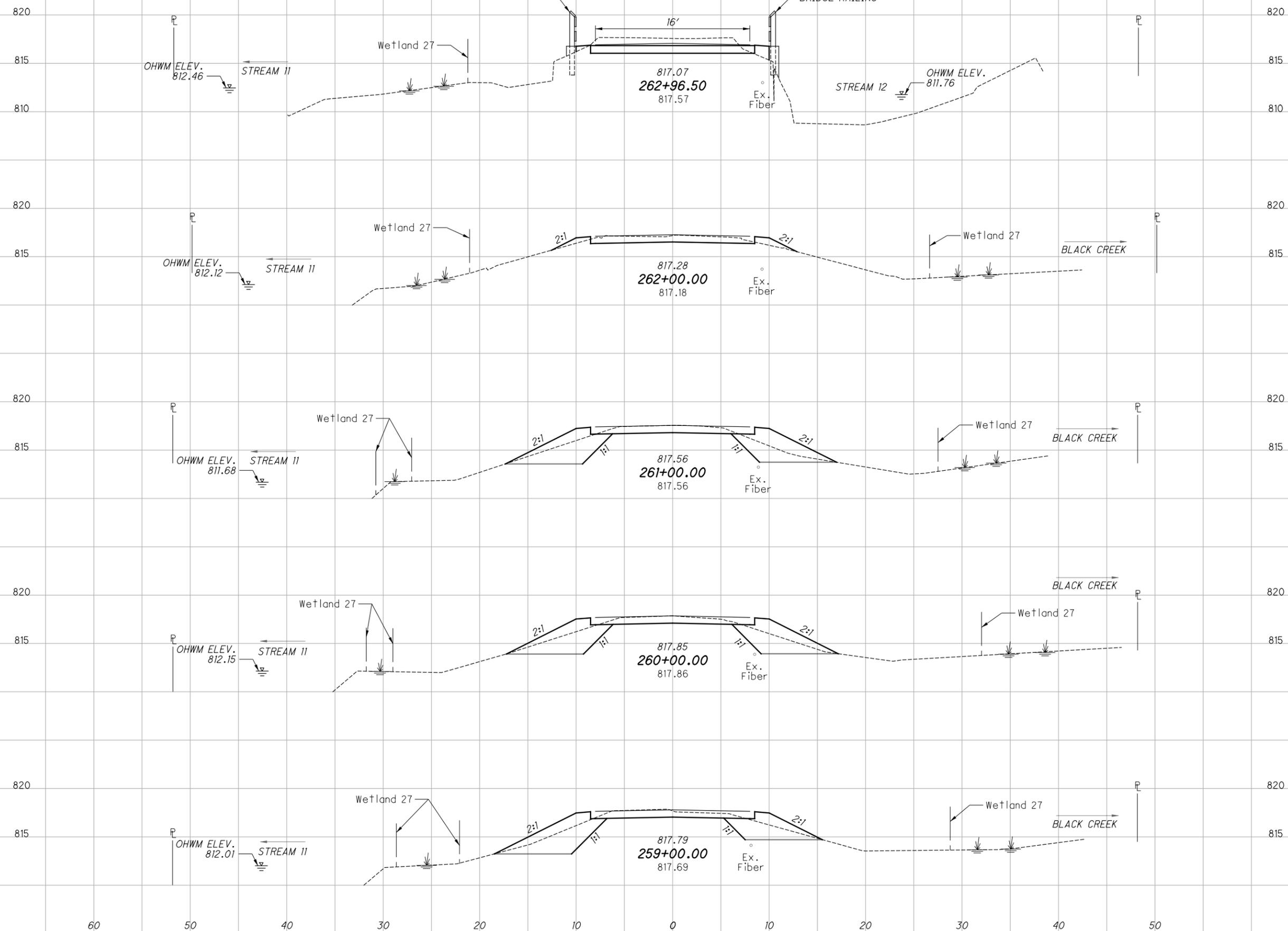
**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 255+00.00 TO STA. 258+00.00**

CALCULATED MS	CHECKED TML
55	133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:12:27 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
1256	

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MS	TML



**CROSS SECTIONS**  
**STA. 259+00.00 TO STA. 262+96.50**

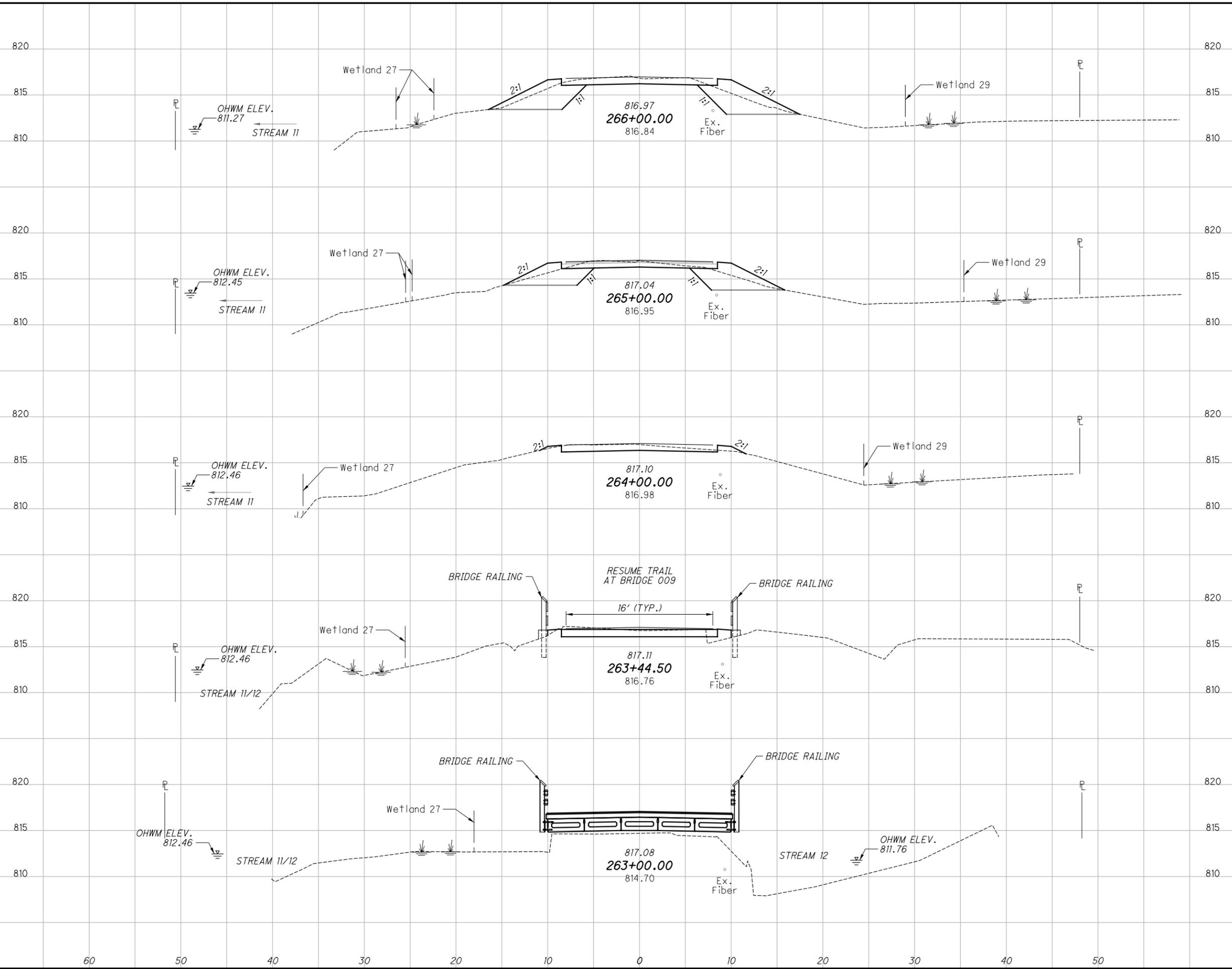
**HOL-COUNTY TRAIL**  
**PHASE 5C2**

56  
133

1256	60	50	40	30	20	10	0	10	20	30	40	50			171	181
------	----	----	----	----	----	----	---	----	----	----	----	----	--	--	-----	-----

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS\01.dgn Sheet 9/2/2025 10:31 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
807	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		102	96

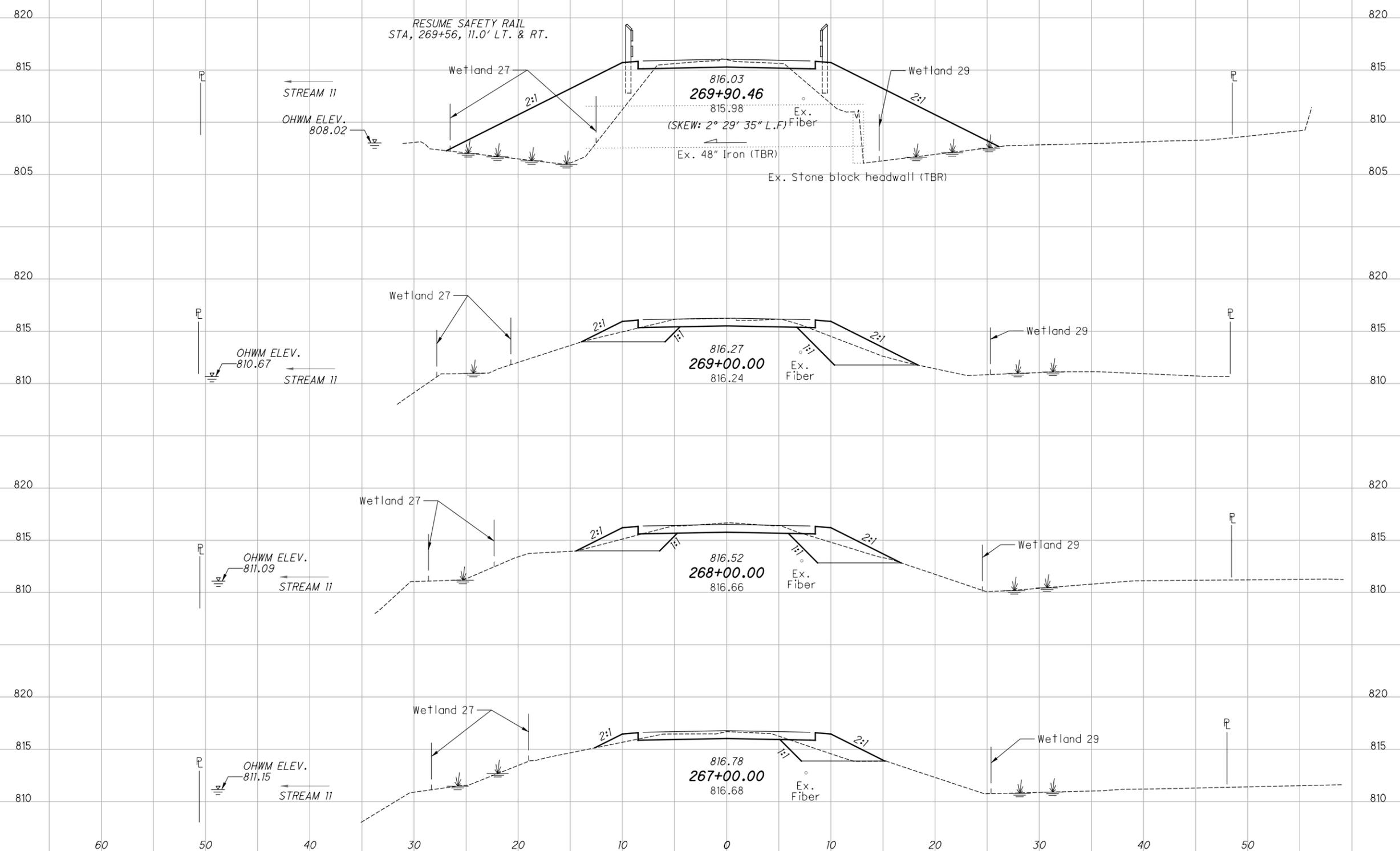
**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 263+00.00 TO STA. 266+00.00**

CALCULATED MS	CHECKED TML
57	133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:11:34 AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED MS  
CHECKED TML



928

60 50 40 30 20 10 0 10 20 30 40 50

110 251

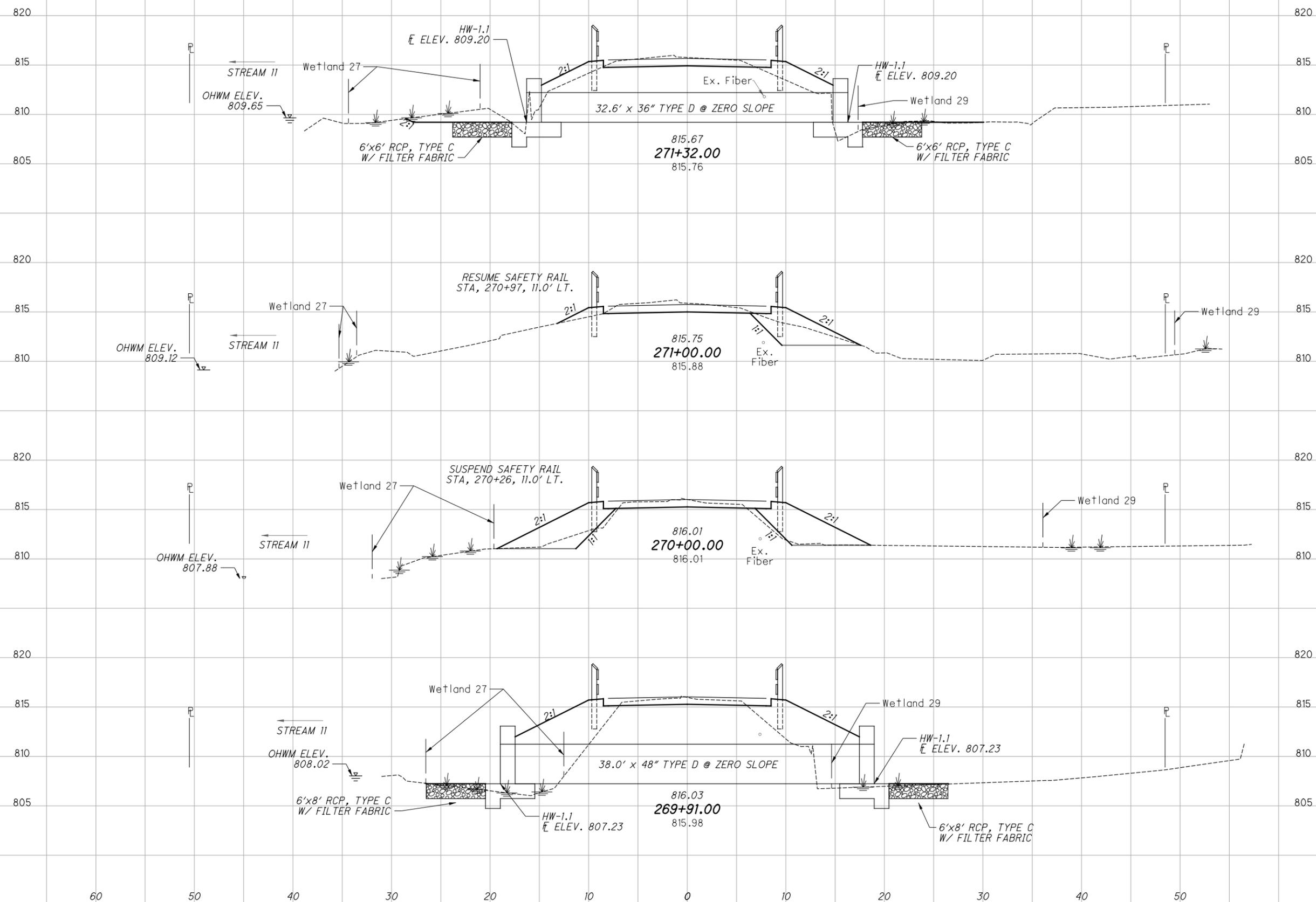
HOL-COUNTY TRAIL  
PHASE 5C2  
CROSS SECTIONS  
STA. 267+00.00 TO STA. 269+90.46

58  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS101.dgn Sheet 9/2/2025 10:11:38 AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED MS  
CHECKED TML



**CROSS SECTIONS  
STA. 269+91.00 TO STA. 271+32.00**

**HOL-COUNTY TRAIL  
PHASE 5C2**

412

62 132

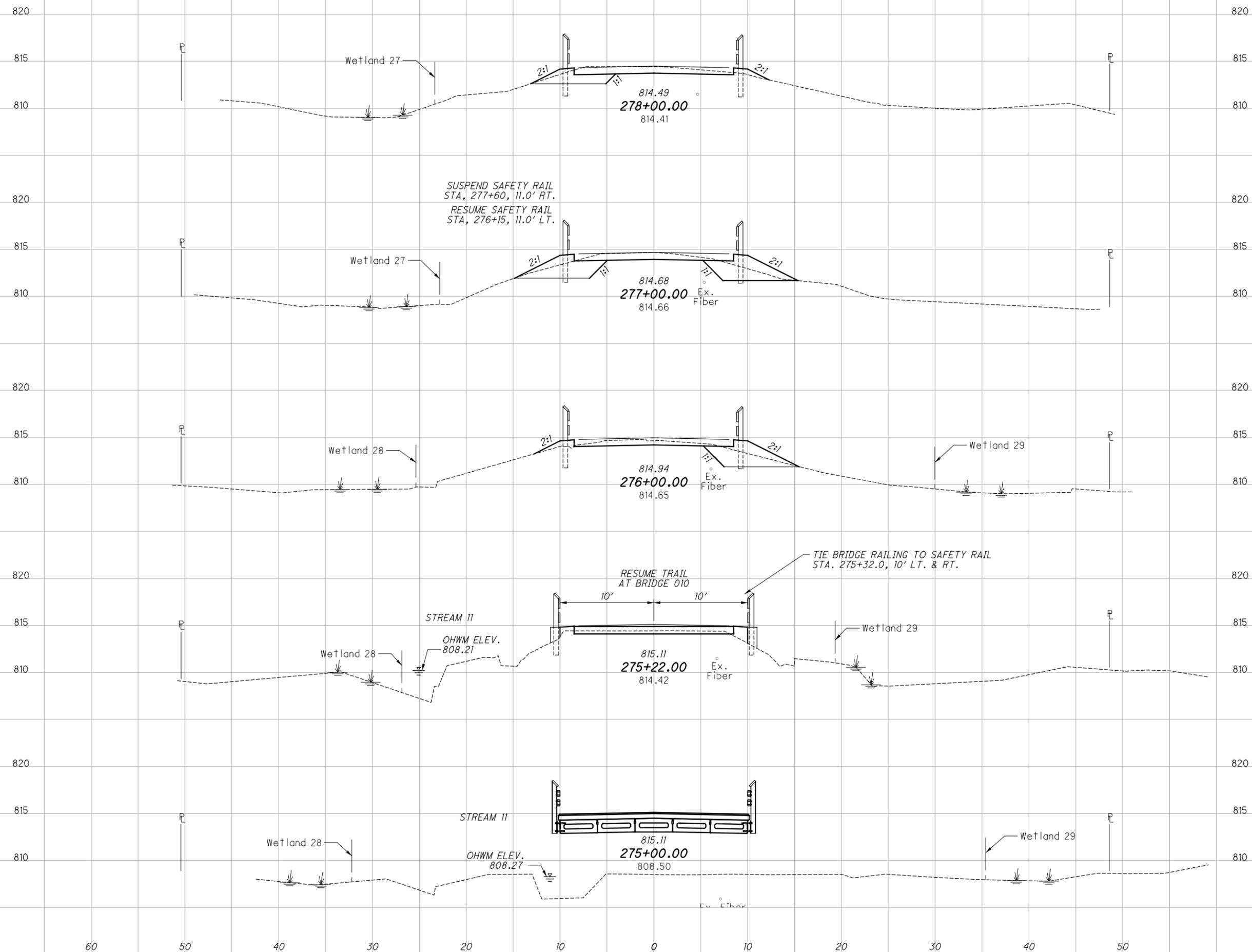
59  
133



G:\DE\clients\04\_Holmes County Parks\1002372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS101.dgn Sheet 9/2/2025 10:45 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MS	TML



809

60 50 40 30 20 10 0 10 20 30 40 50

95 95

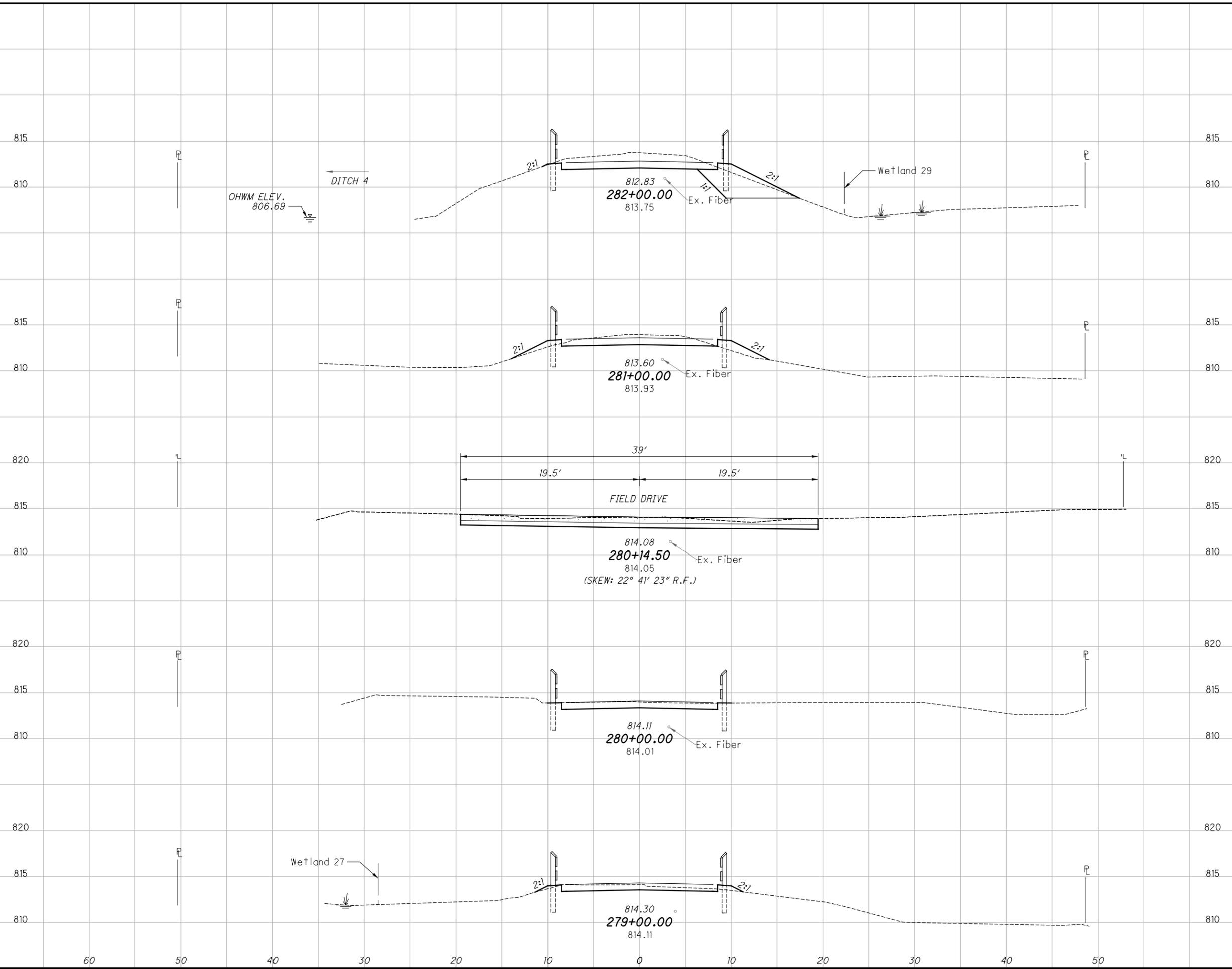
**CROSS SECTIONS**  
**STA. 275+00.00 TO STA. 278+00.00**

**HOL-COUNTY TRAIL**  
**PHASE 5C2**

61  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:11:48 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
735	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		213	49

**HOL-COUNTY TRAIL PHASE 5C2**

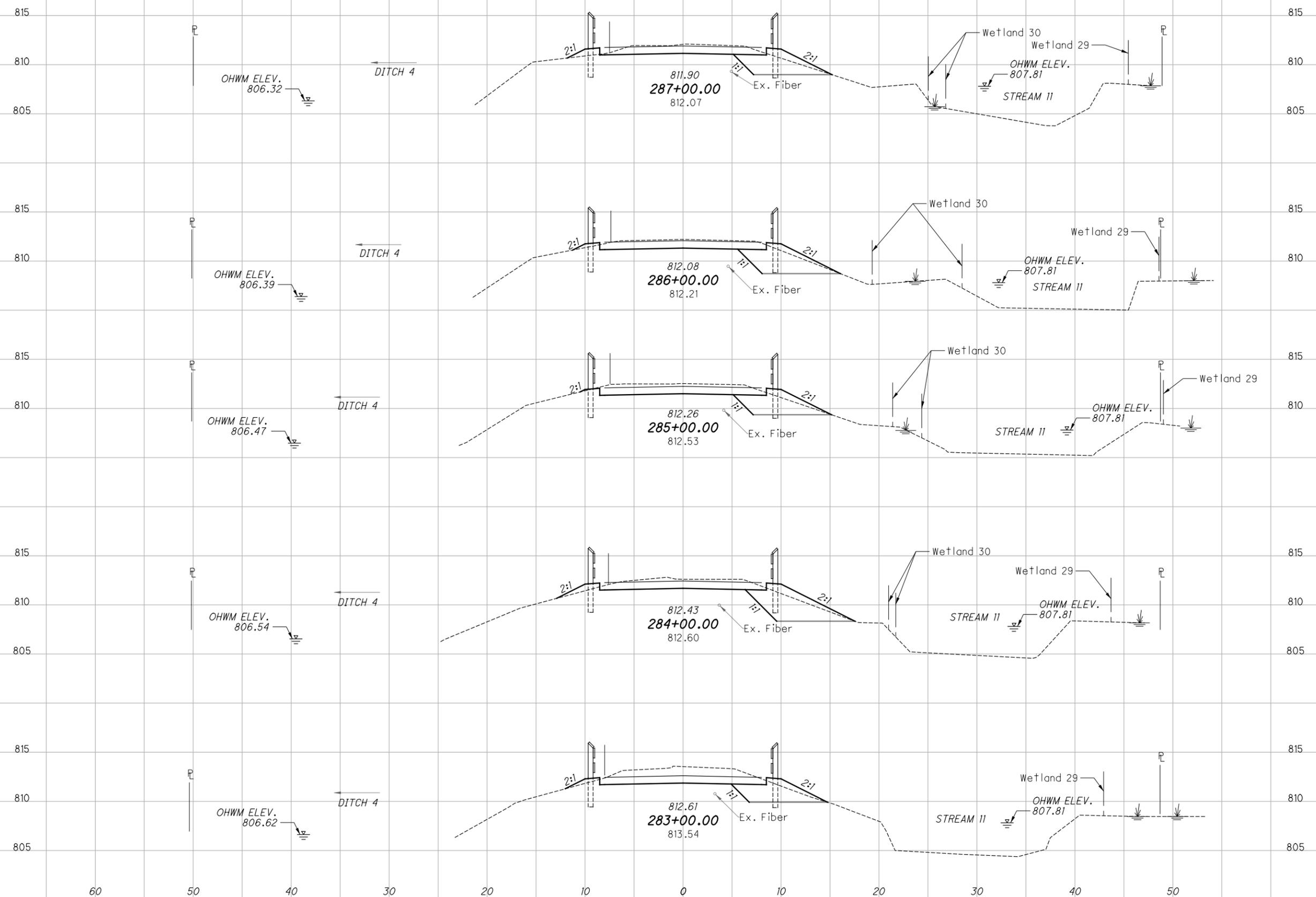
**CROSS SECTIONS STA. 279+00.00 TO STA. 282+00.00**

62  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10.dgn Sheet 9/2/2025 10:52 AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED MS  
CHECKED TML



CROSS SECTIONS  
STA. 283+00.00 TO STA. 287+00.00

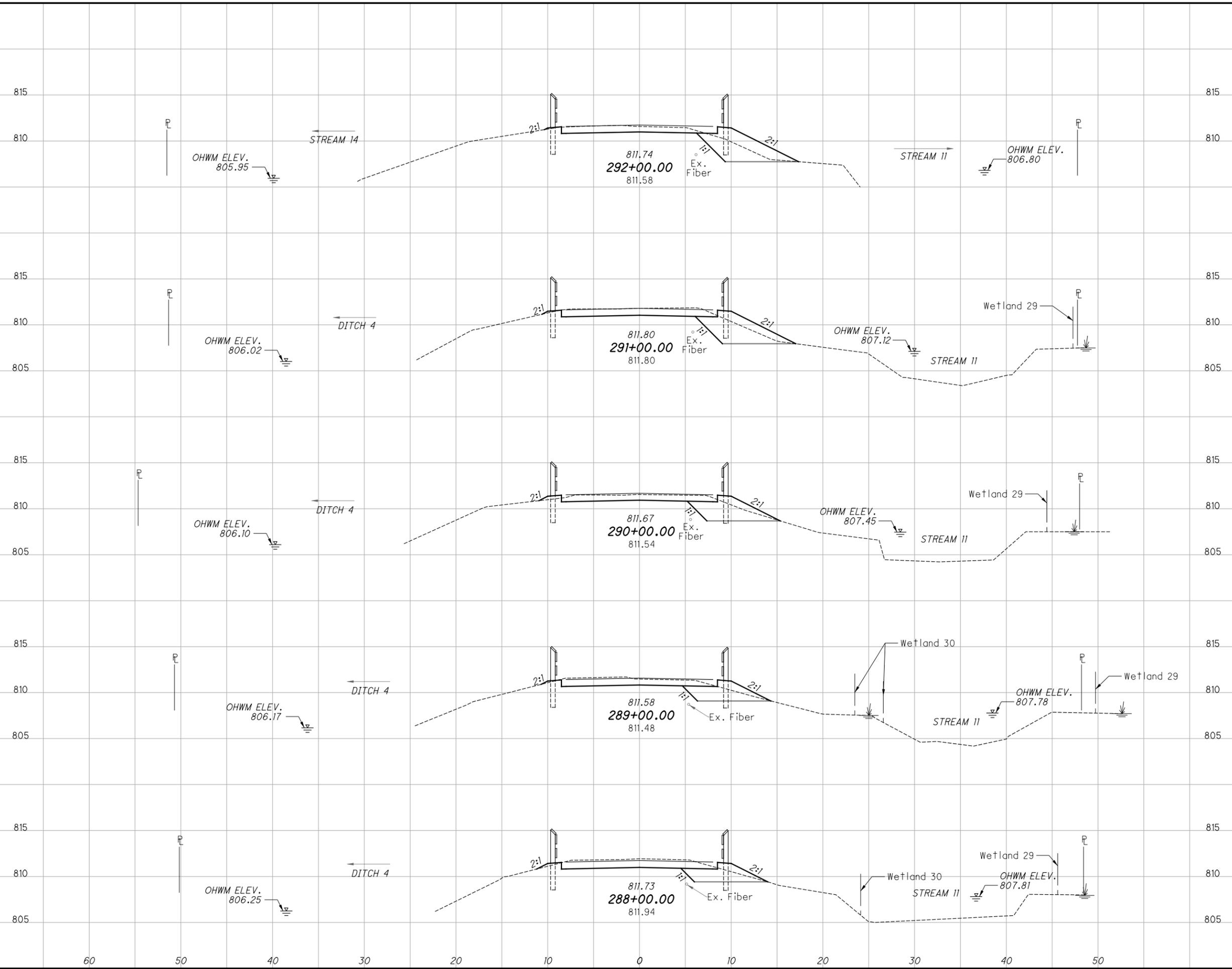
HOL-COUNTY TRAIL  
PHASE 5C2

1076	60	50	40	30	20	10	0	10	20	30	40	50	306	84
------	----	----	----	----	----	----	---	----	----	----	----	----	-----	----

63  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS\01.dgn Sheet 9/2/2025 10:11:55 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
1025	

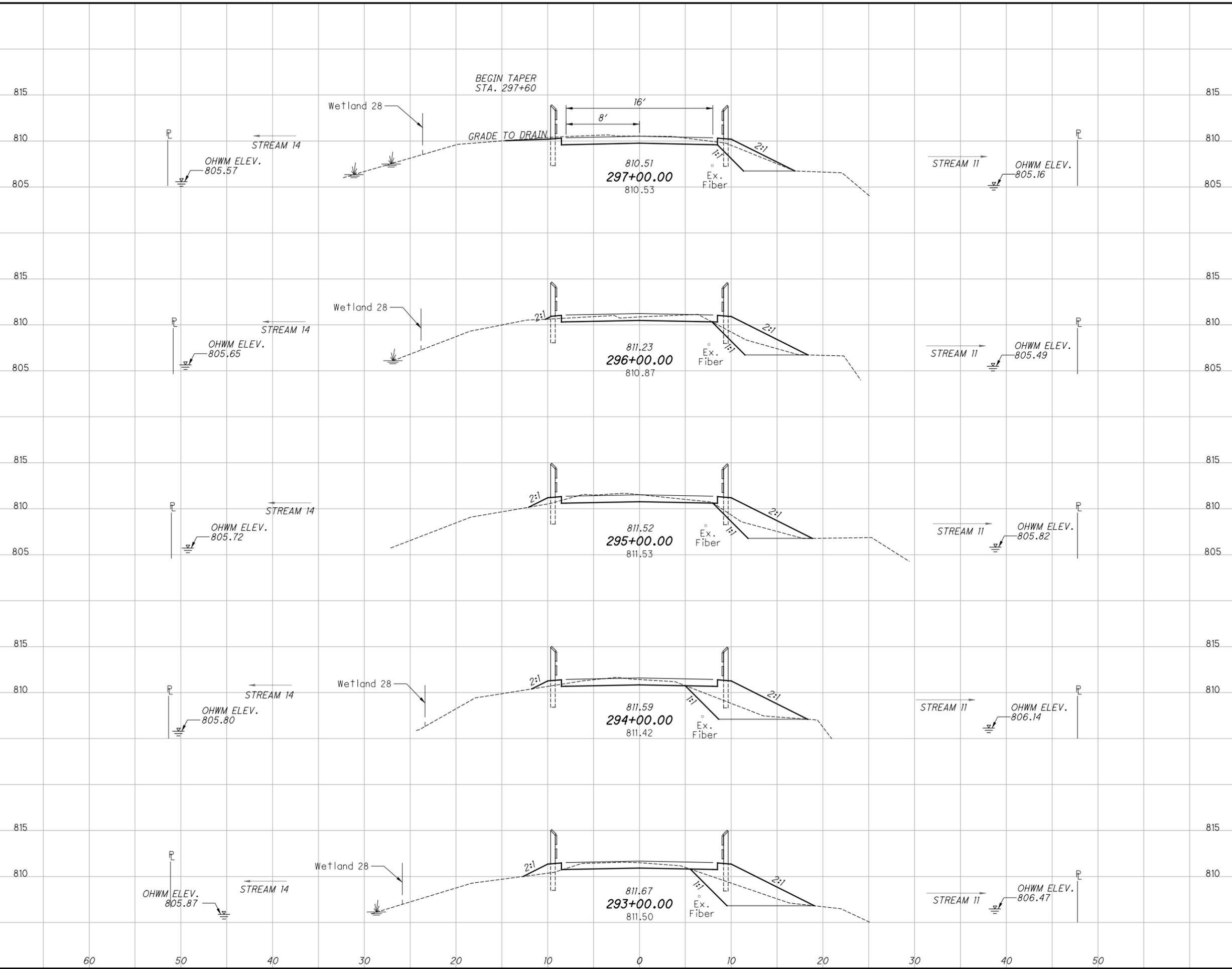


END AREA		VOLUME	
CUT	FILL	CUT	FILL

**HOL-COUNTY TRAIL PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 288+00.00 TO STA. 292+00.00**  
 CALCULATED MS  
 CHECKED TML

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10.dgn Sheet 9/2/2025 10:11:59 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
1243	



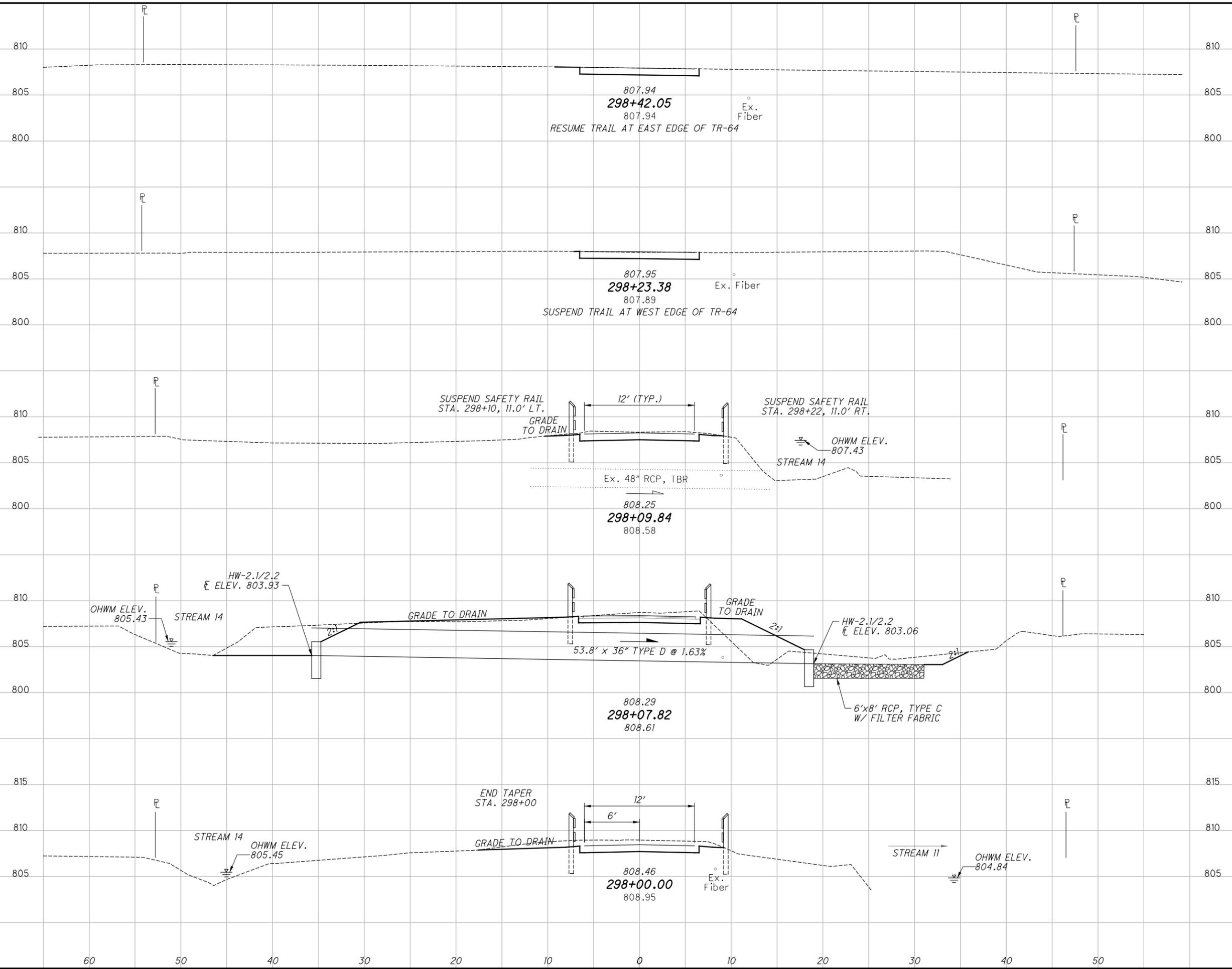
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		189	251

**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 293+00.00 TO STA. 297+00.00**

CALCULATED MS  
 CHECKED TML  
 65  
 133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:12:02 AM A.Aadir

SEEDING	
END WIDTH	SO. YDS.
251	

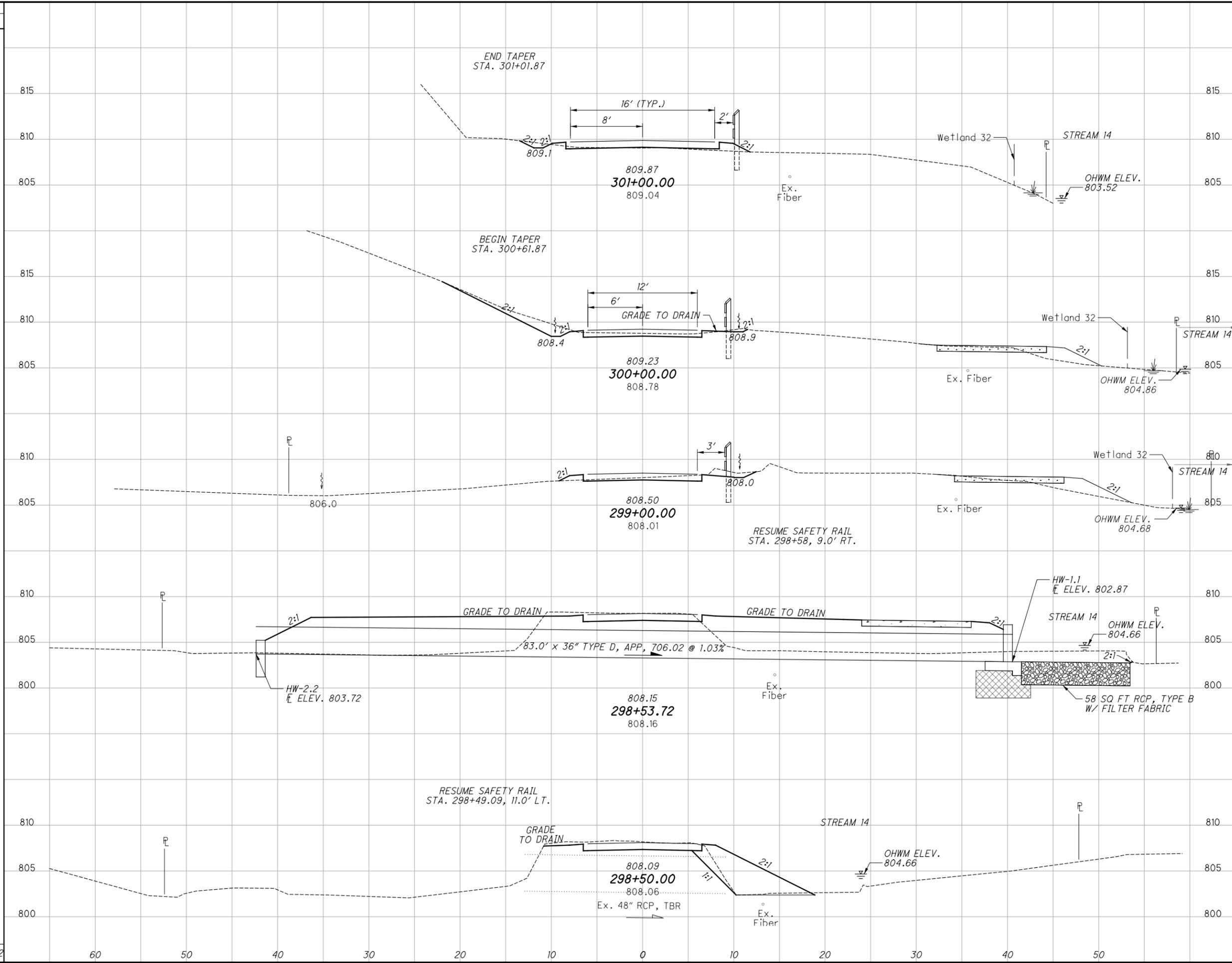


END AREA		VOLUME		CALCULATED MS	CHECKED TML
CUT	FILL	CUT	FILL		

**HOL-COUNTY TRAIL PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 298+00.00 TO STA. 298+42.05**

G:\Clients\Holmes County Parks\1002372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:12:06 AM A.Aadir

SEEDING	
END WIDTH	SO. YDS.
1332	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		83	117

CALCULATED MS	CHECKED TML

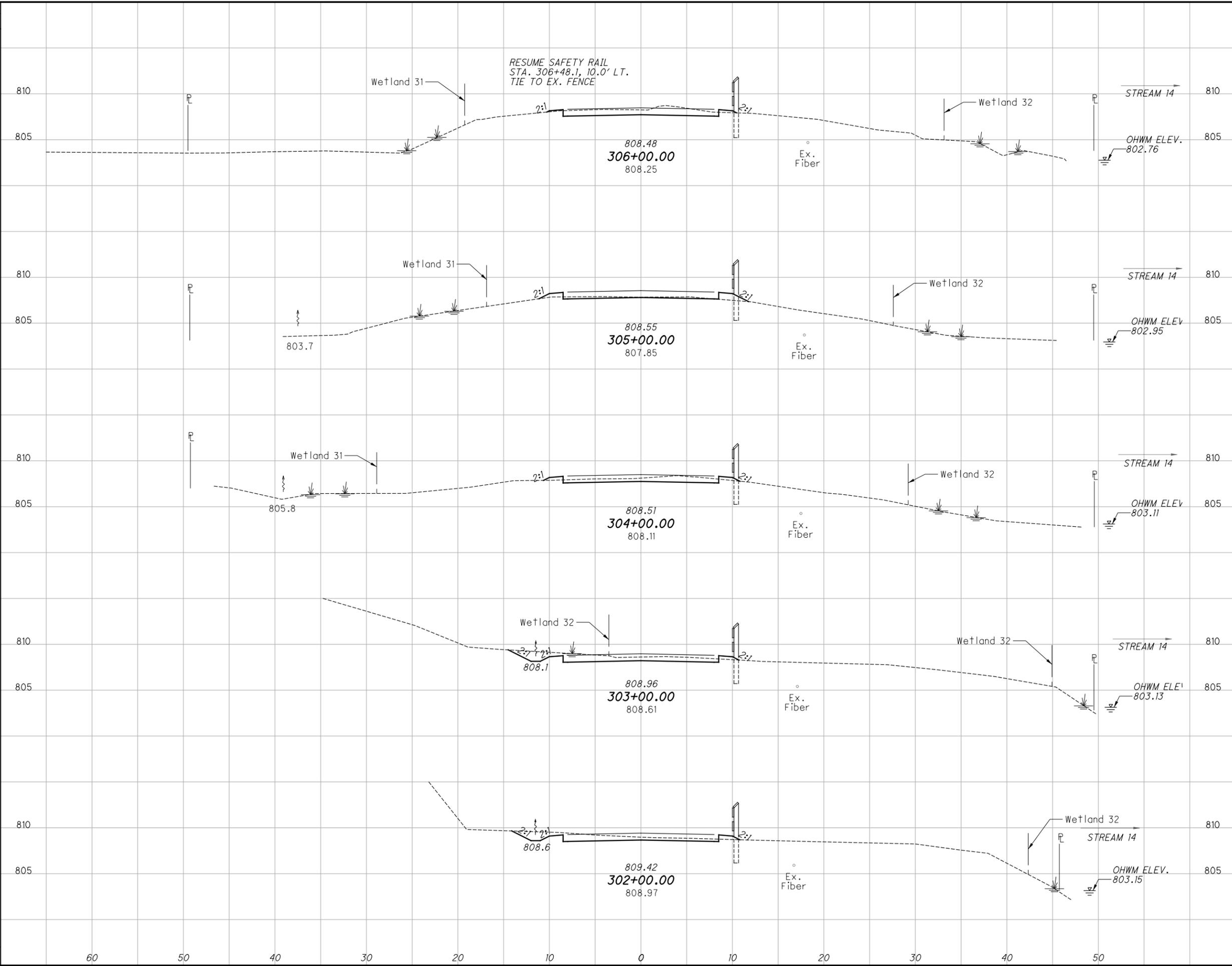
**CROSS SECTIONS  
STA. 298+50.00 TO STA. 301+00.00**

**HOL-COUNTY TRAIL  
PHASE 5C2**

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:12:09 AM A.Aadir

SEEDING  
END SO.  
WIDTH YDS.

993	60	50	40	30	20	10	0	10	20	30	40	50
-----	----	----	----	----	----	----	---	----	----	----	----	----

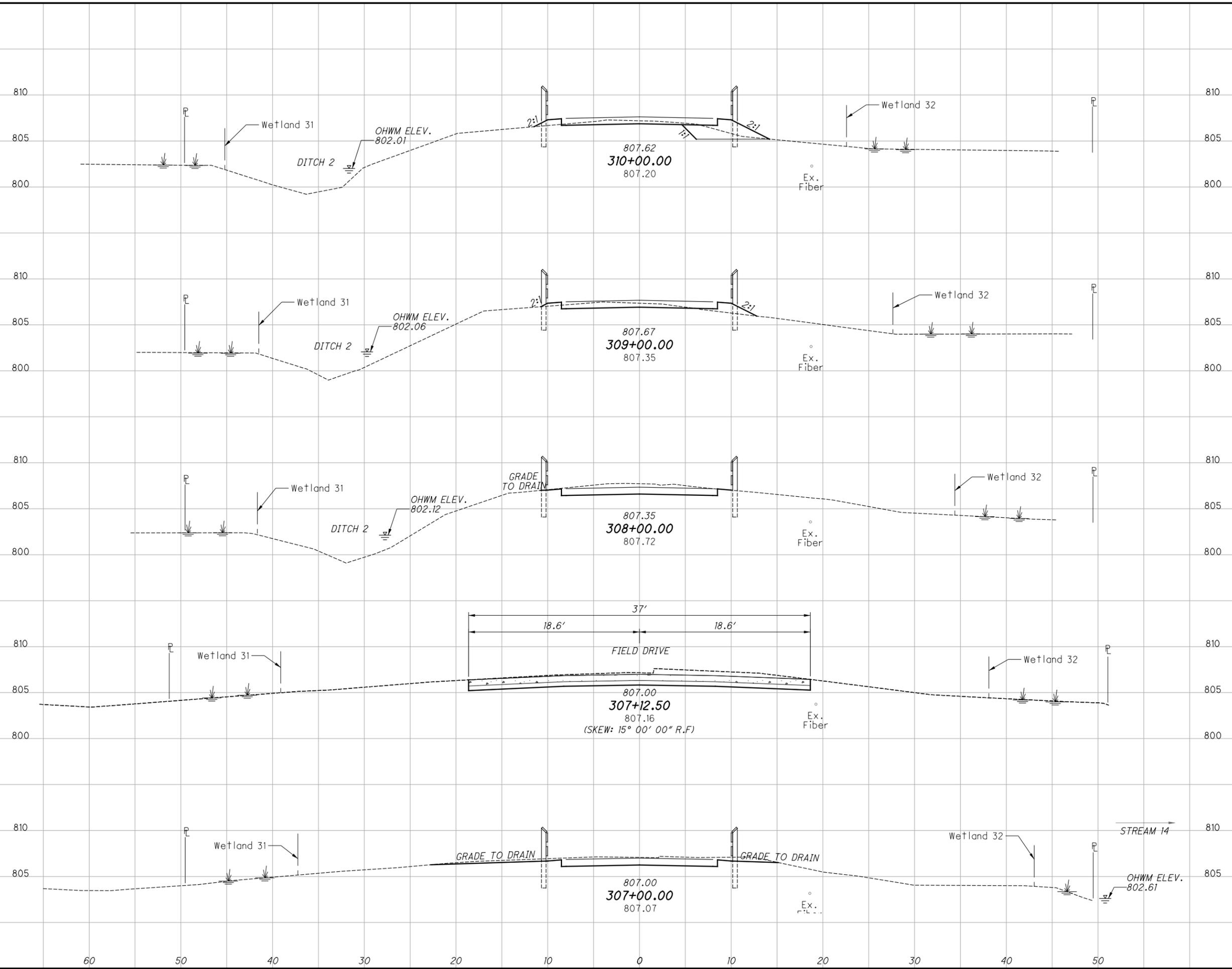


END AREA		VOLUME		CALCULATED MS	CHECKED TML
CUT	FILL	CUT	FILL		
		157	29		

**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 302+00.00 TO STA. 306+00.00**

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\120806\_XS10\dgn\_Sheet 9/2/2025 10:12:13 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
744	

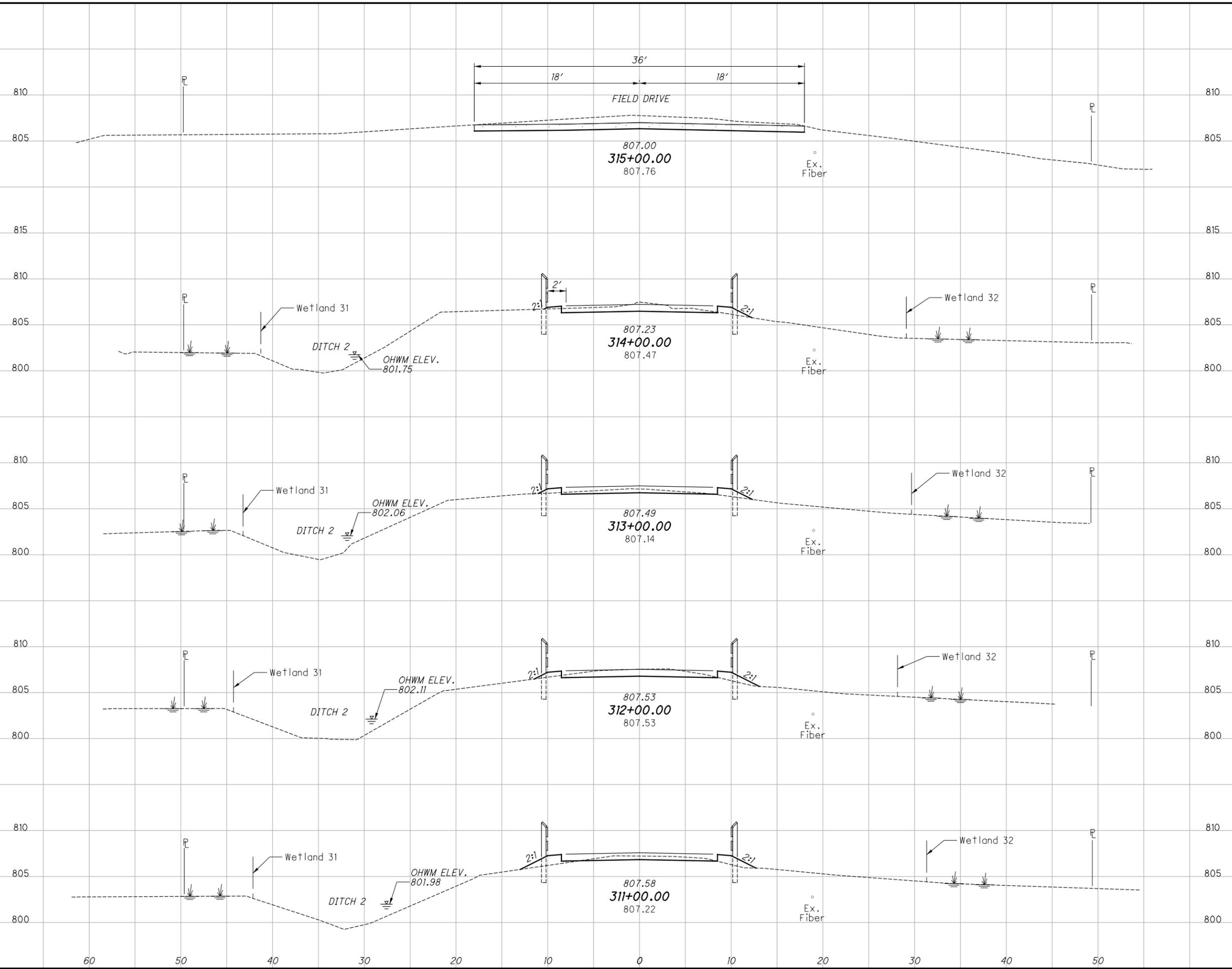


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		216	61

**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 307+00.00 TO STA. 310+00.00**

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10.dgn Sheet 9/2/2025 10:21:16 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
784	



END AREA		VOLUME		CALCULATED MS	CHECKED TML
CUT	FILL	CUT	FILL		
		174	55		

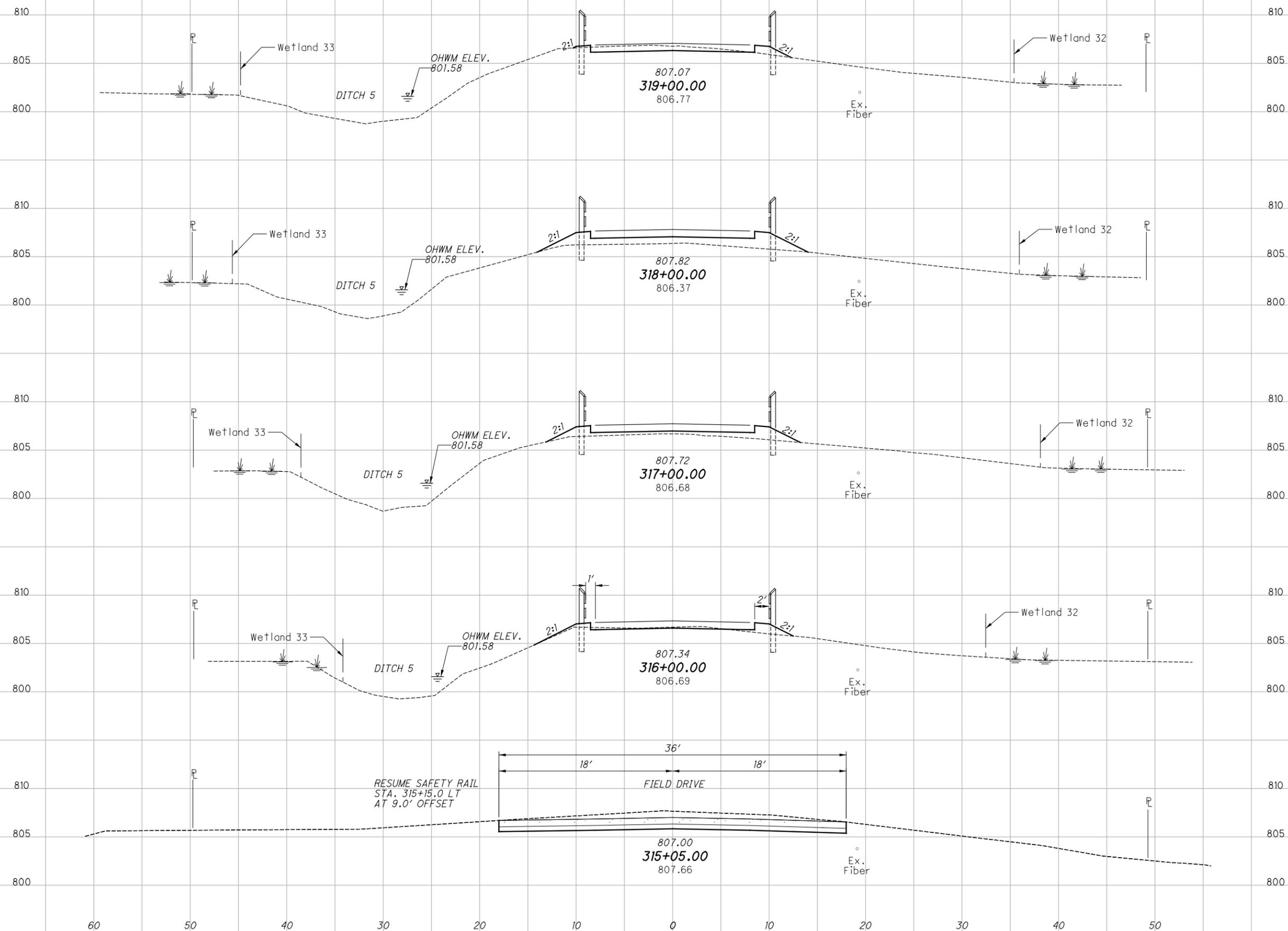
**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 311+00.00 TO STA. 315+00.00**

70  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:12:20 AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED MS  
CHECKED TML



**CROSS SECTIONS**  
**STA. 315+05.00 TO STA. 319+00.00**

**HOL-COUNTY TRAIL**  
**PHASE 5C2**

71  
133

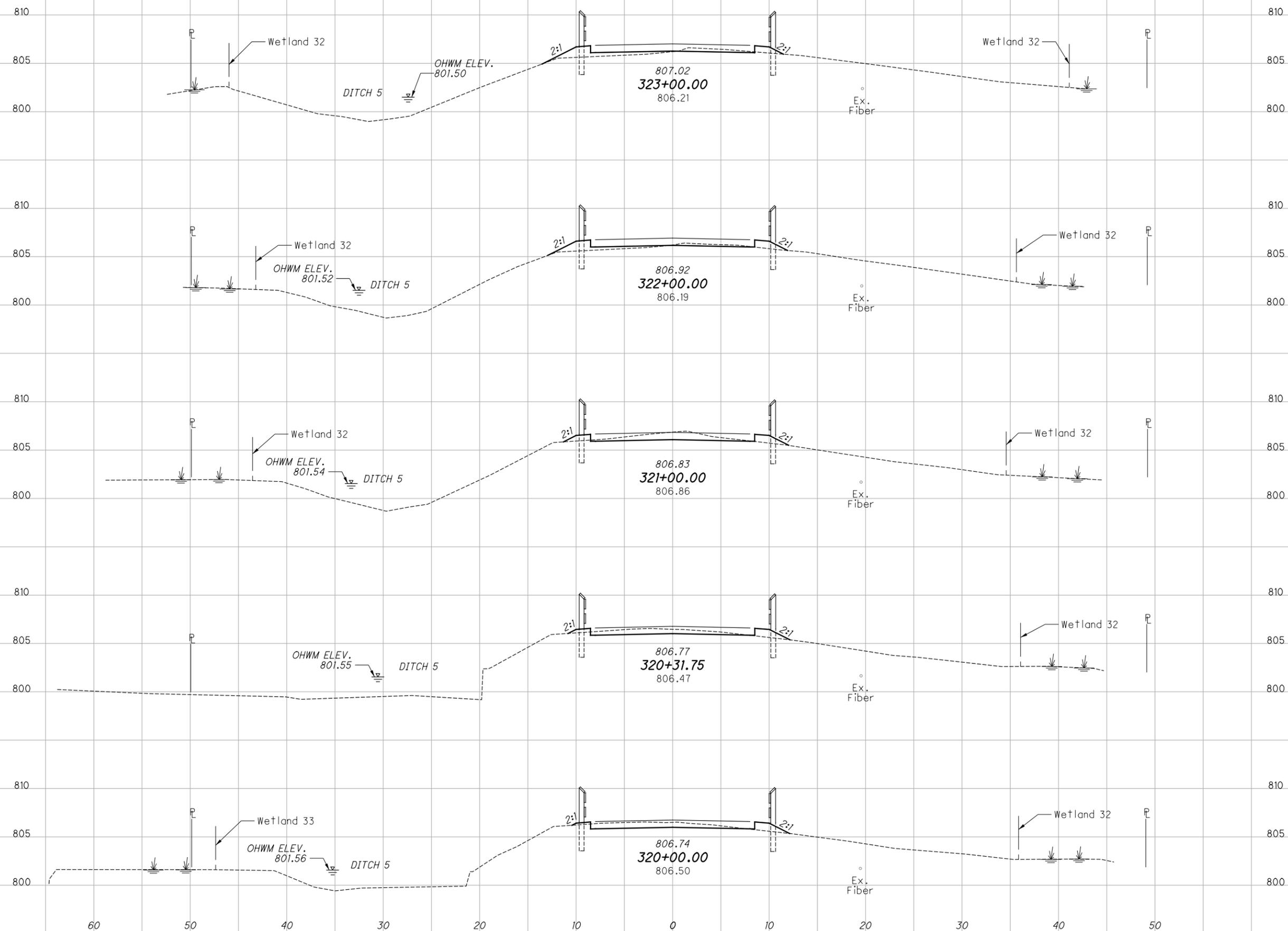
92 141

869

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS101.dgn Sheet 9/2/2025 10:12:23 AM A.Adir

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED MS  
CHECKED TML



CROSS SECTIONS  
STA. 320+00.00 TO STA. 323+00.00

HOL-COUNTY TRAIL  
PHASE 5C2

72  
133

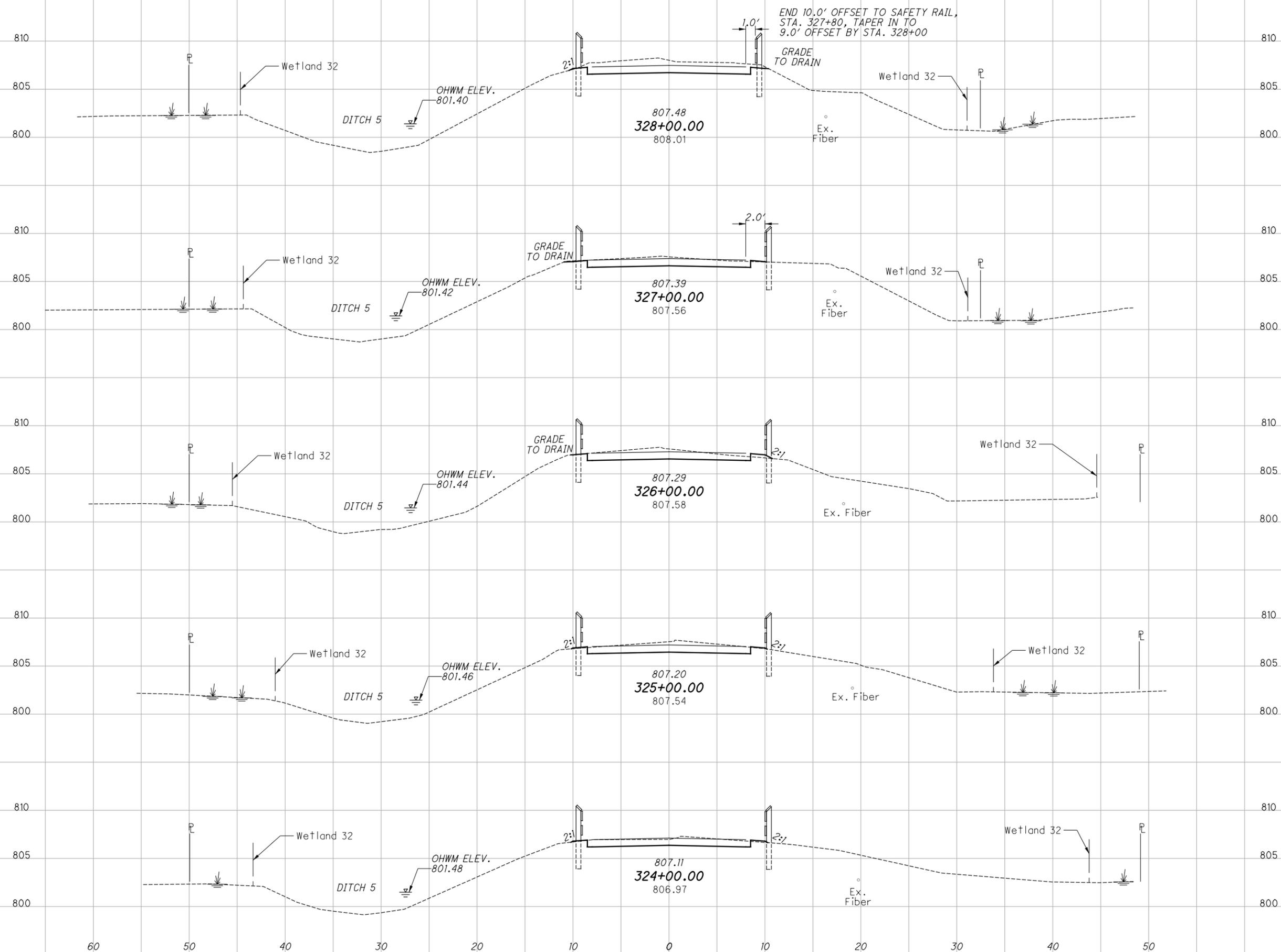
697

73 69

G:\DE\clients\Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10.dgn Sheet 9/2/2025 10:12:27 AM A.Adir

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED MS  
CHECKED TML



720

60 50 40 30 20 10 0 10 20 30 40 50

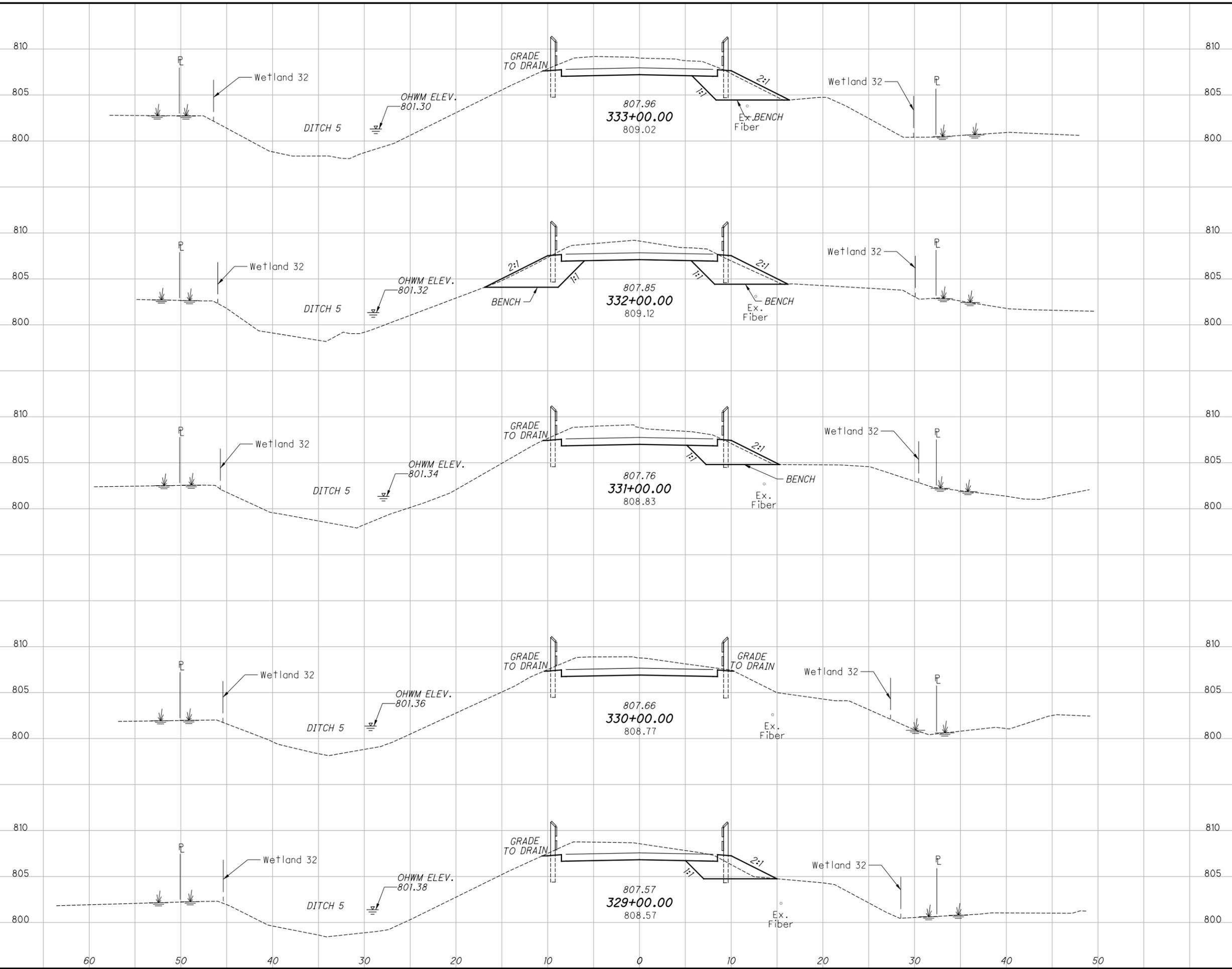
297 9

HOL-COUNTY TRAIL  
PHASE 5C2  
CROSS SECTIONS  
STA. 324+00.00 TO STA. 328+00.00

73  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\120806\_XS\01.dgn Sheet 9/2/2025 10:12:31AM A.Adair

SEEDING	
END WIDTH	SO. YDS.
1005	



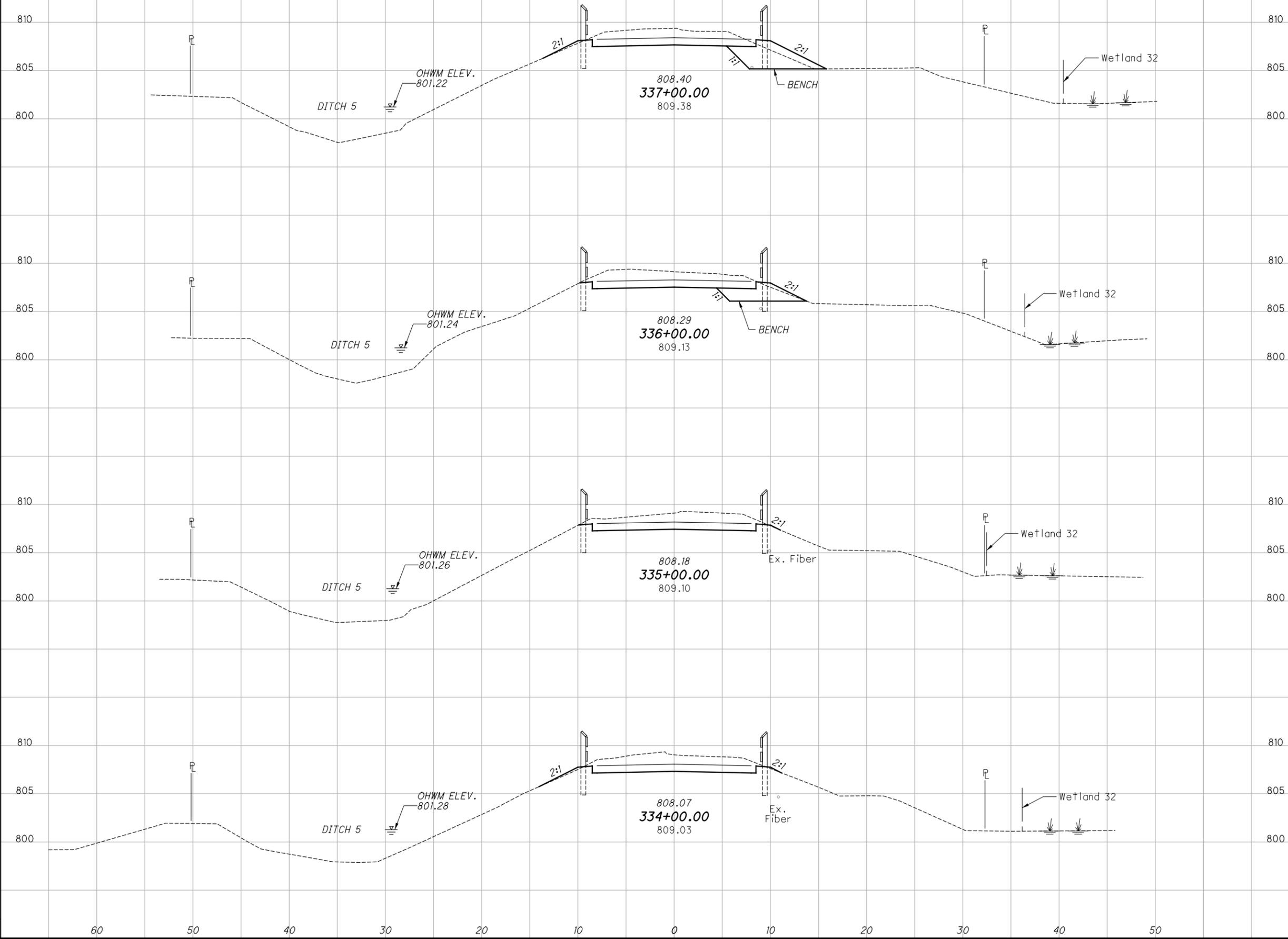
END AREA		VOLUME		CALCULATED MS	CHECKED TML
CUT	FILL	CUT	FILL		
		717	221		

**HOL-COUNTY TRAIL**  
**PHASE 5C2**  
**CROSS SECTIONS**  
**STA. 329+00.00 TO STA. 333+00.00**

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS101.dgn Sheet 9/2/2025 10:12:34 AM A.Adir

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED MS  
CHECKED TML



748

60 50 40 30 20 10 0 10 20 30 40 50

476 108

HOL-COUNTY TRAIL  
PHASE 5C2

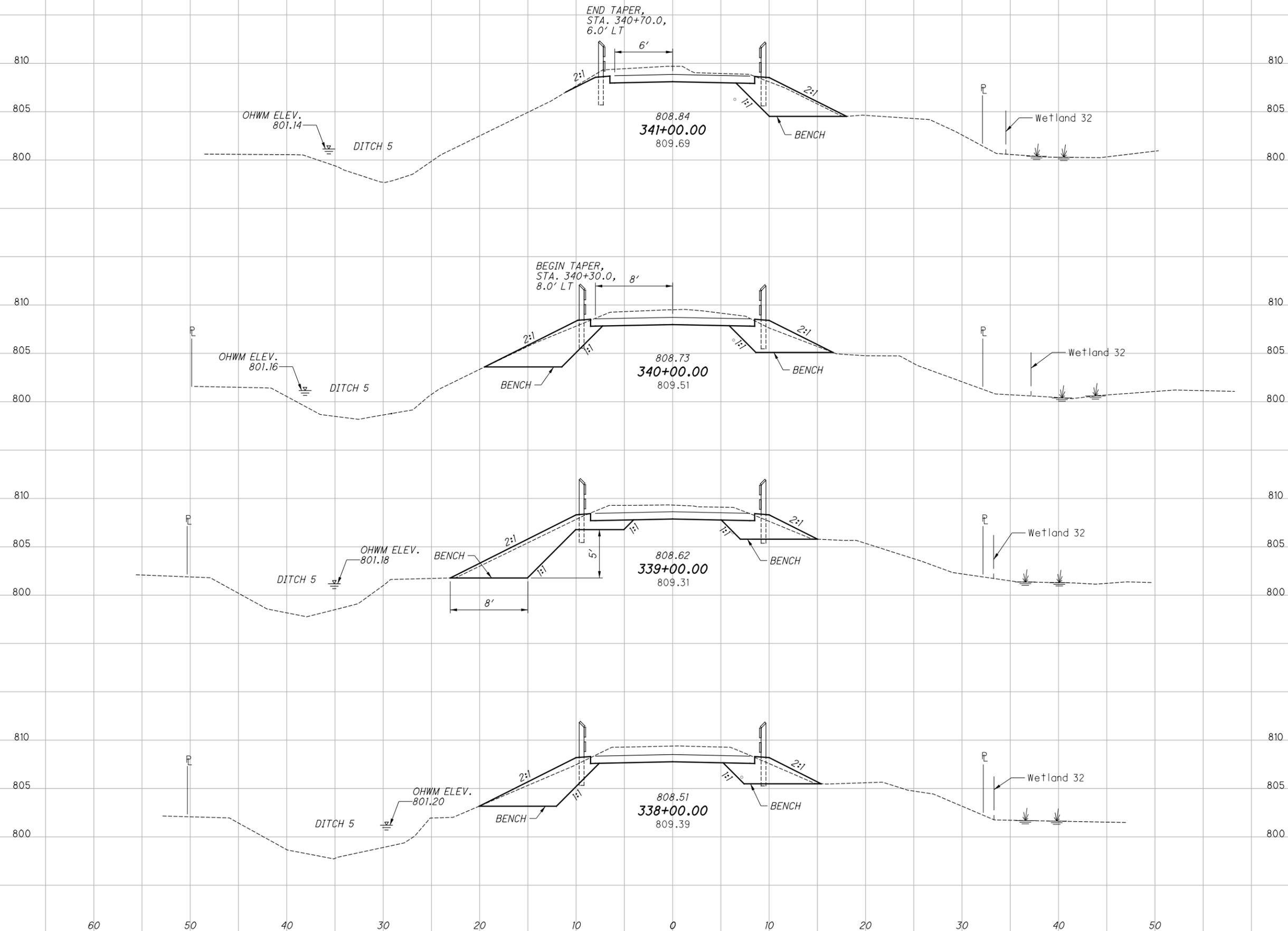
CROSS SECTIONS  
STA. 334+00.00 TO STA. 337+00.00

75  
133

G:\Clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10.dgn Sheet 9/2/2025 10:12:37 AM A.Aadir

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED MS  
CHECKED TML



1128

60 50 40 30 20 10 0 10 20 30 40 50

765 633

HOL-COUNTY TRAIL  
PHASE 5C2  
CROSS SECTIONS  
STA. 338+00.00 TO STA. 341+00.00

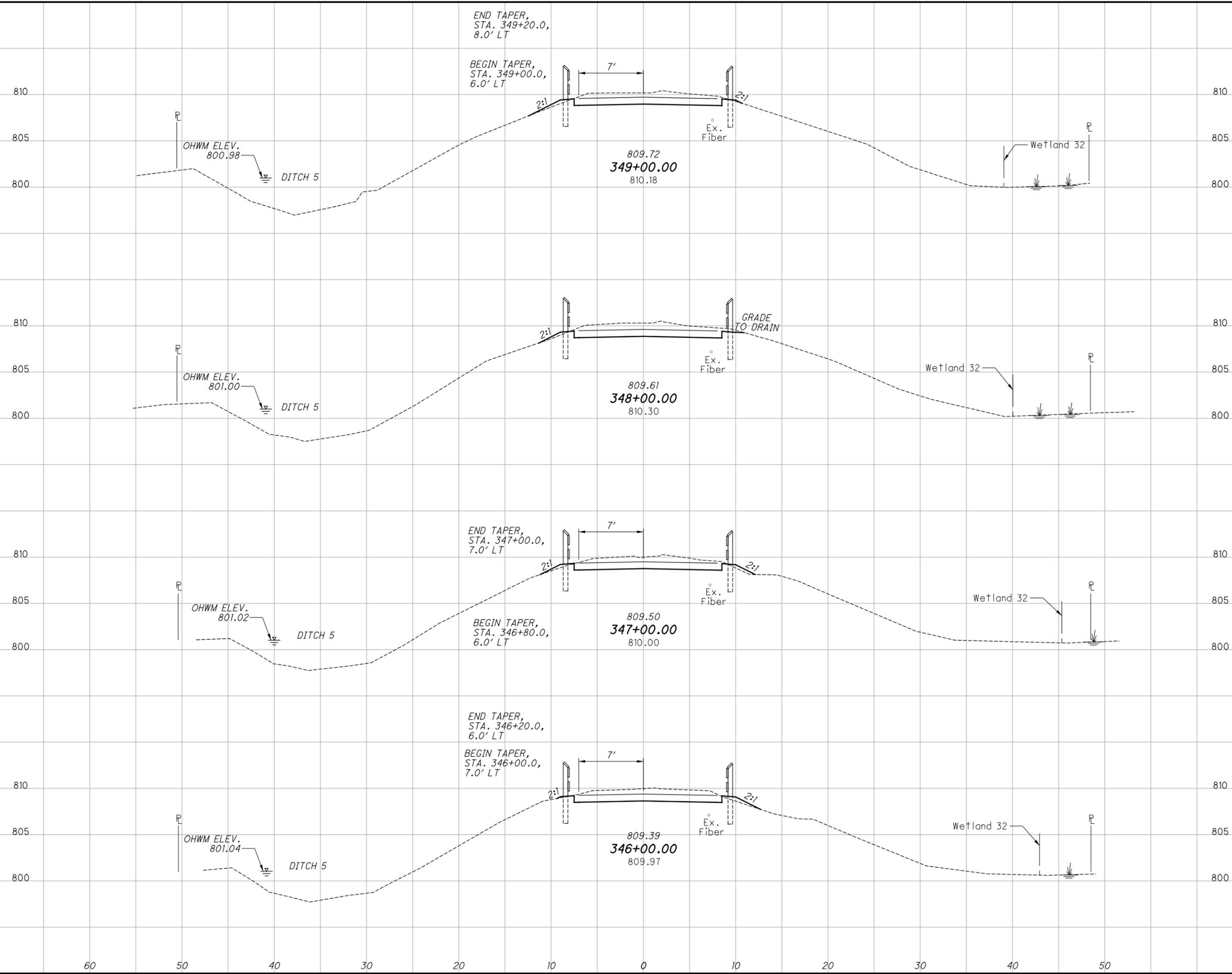
76  
133



G:\DE\clients\OH\_Holmes County Parks\1002372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS101.dgn Sheet 9/2/2025 10:12:44 AM A.Adir

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED MS  
CHECKED TML



CROSS SECTIONS  
STA. 346+00.00 TO STA. 349+00.00

HOL-COUNTY TRAIL  
PHASE 5C2

78  
133

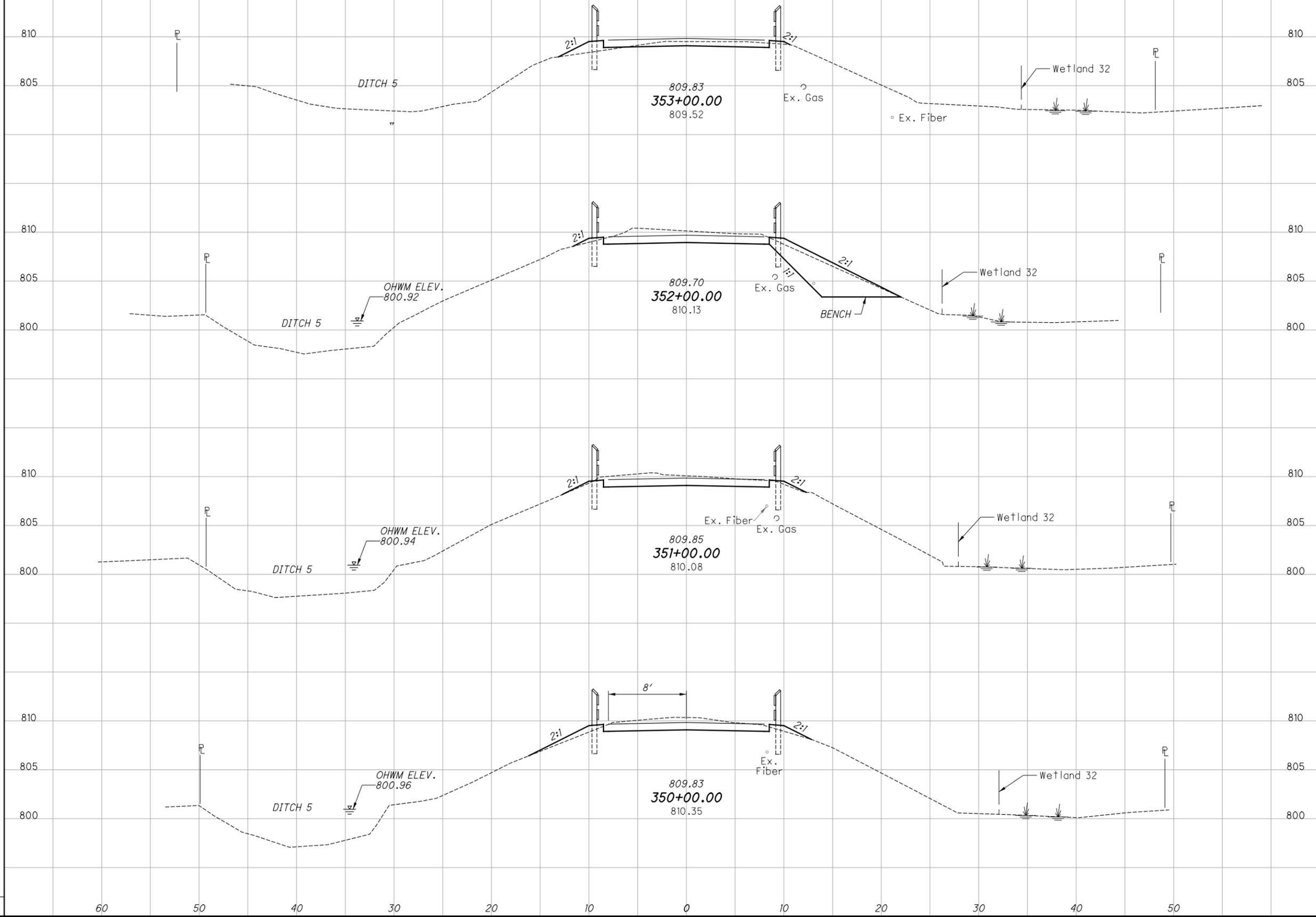
839

308 91

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS10\dgn Sheet 9/2/2025 10:12:48 AM A.Aadir

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED MS  
CHECKED TML



961

60

50

40

30

20

10

0

10

20

30

40

50

286

471

HOL-COUNTY TRAIL  
PHASE 5C2

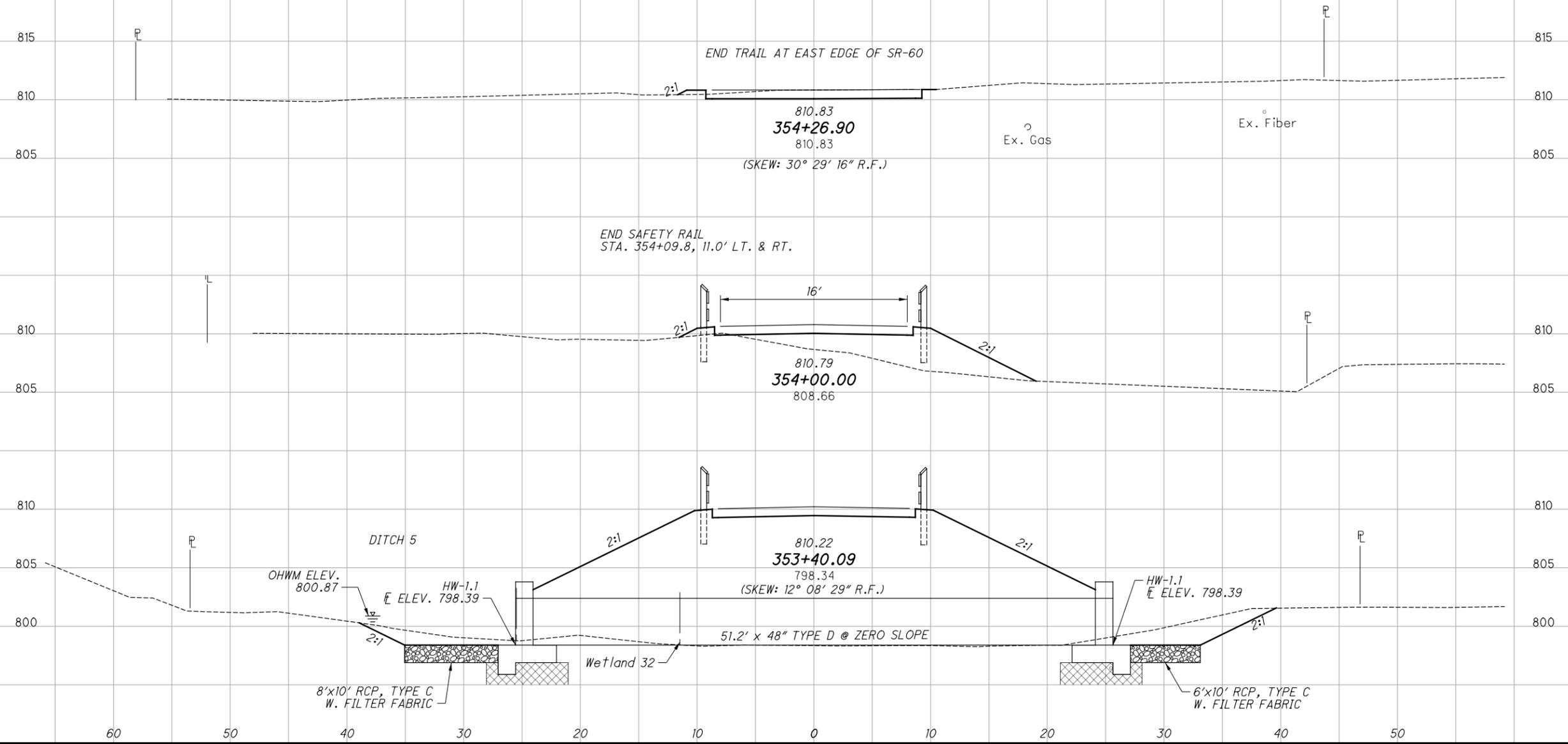
CROSS SECTIONS  
STA. 350+00.00 TO STA. 353+00.00

79  
133

G:\DE\clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\20806\_XS\01.dgn Sheet 9/2/2025 10:12:51AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED MS  
CHECKED TML



CROSS SECTIONS  
STA. 353+40.09 TO STA. 354+26.90

HOL-COUNTY TRAIL  
PHASE 5C2

80  
133

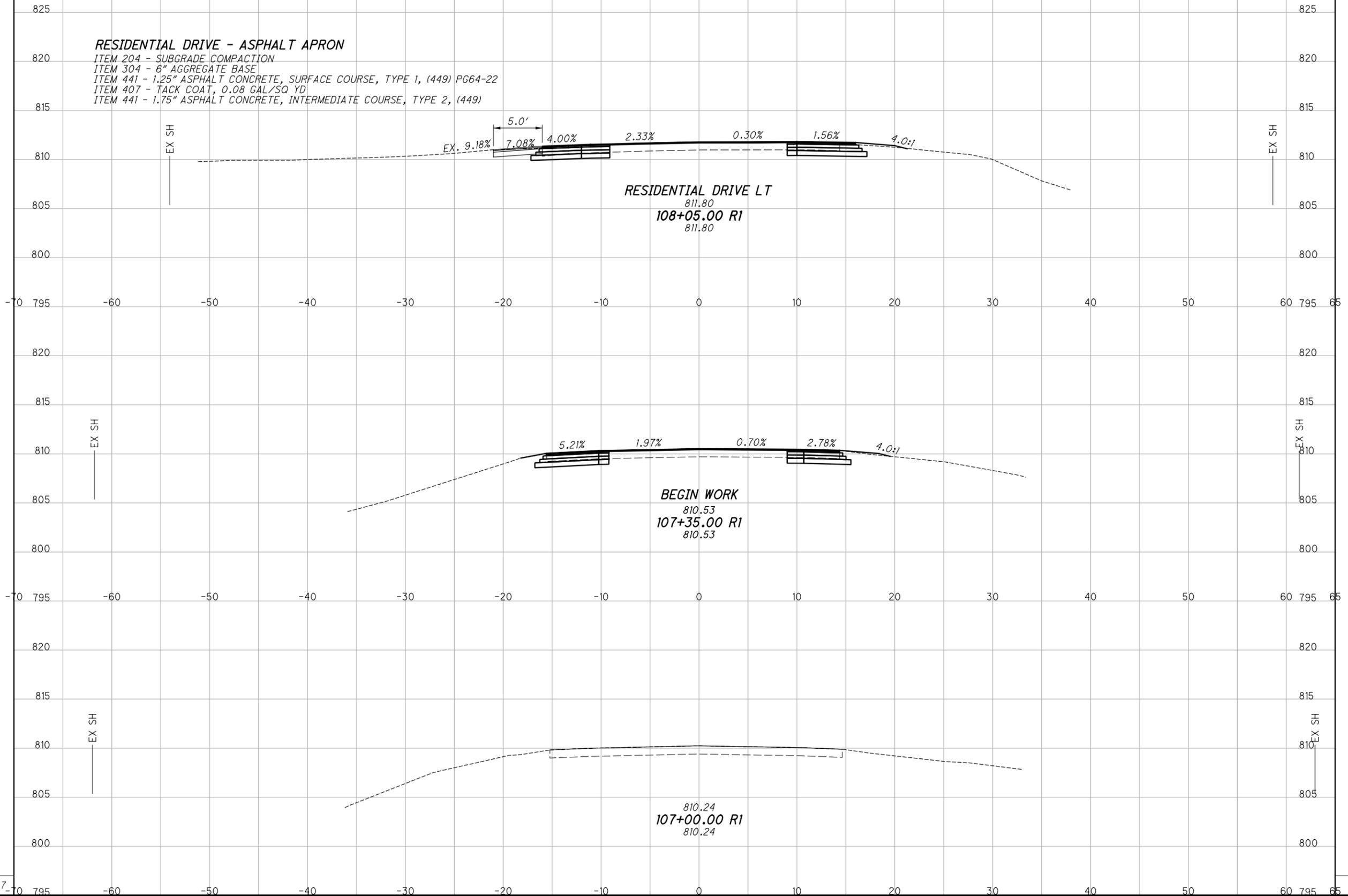
444

6 643

G:\DE\clients\OH\_Holmes County\_Parks\10022288\_SR60\120806\_SR60\Design\Roadway\_Sheets\20806\_XS100.dgn SR\_60\_SHEET 9/2/2025 10:2:56 AM A.Adair

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
AKA  
CHECKED  
MS



CROSS SECTIONS - S.R. 60  
 STA. 107+00 TO STA. 108+05.00

HOL-COUNTY TRAIL  
 PHASE 5C2

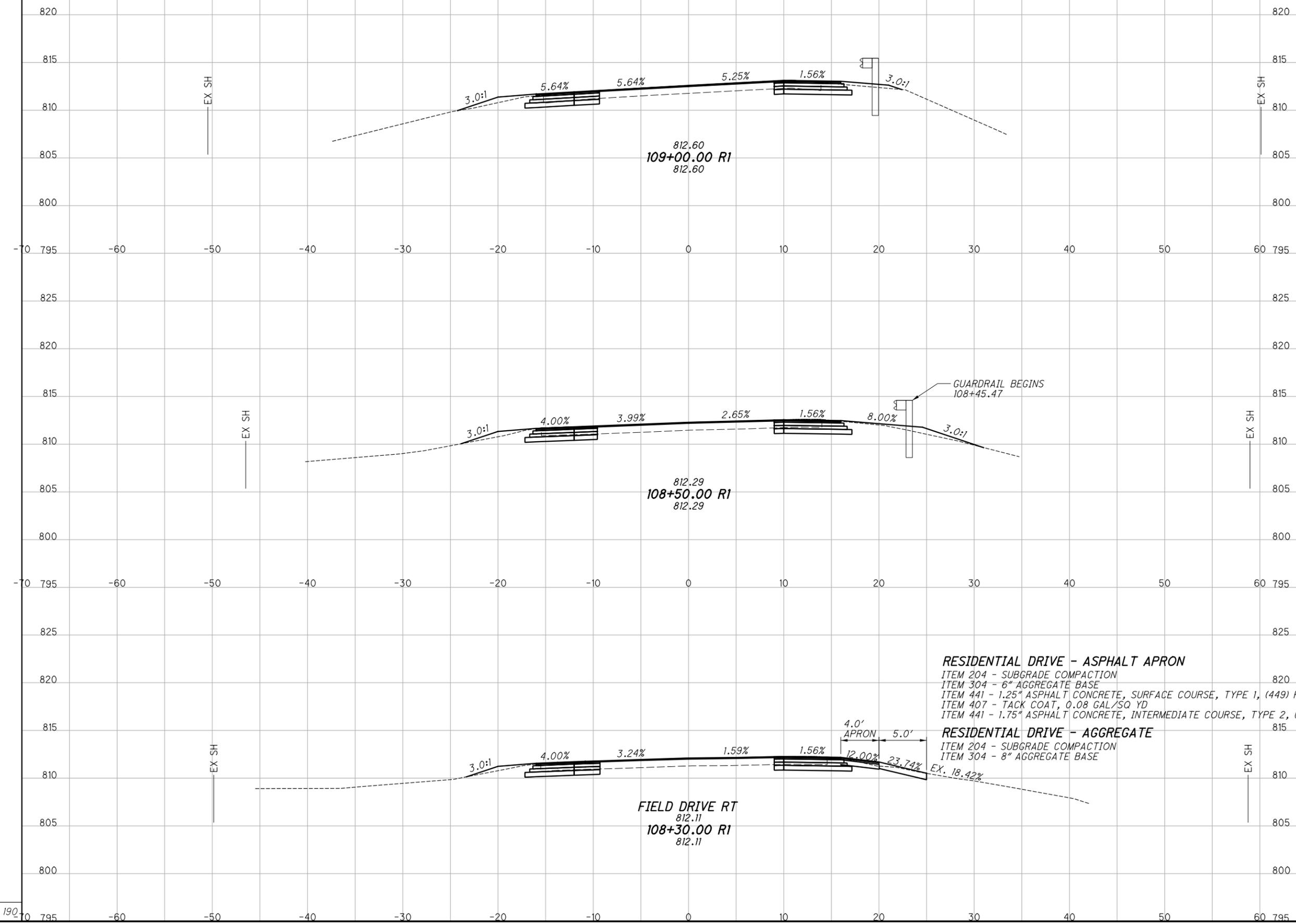
81  
 133

42 3

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED AKA  
CHECKED MS

G:\DE\clients\OH\_Holmes County\_Parks\0022288\_SRP60\20806\_SRP60\Design\Roadway\_Sheets\20806\_XS100.dgn SR\_60\_SHEET 9/2/2025 10:2:56 AM A.Adair



CROSS SECTIONS - S.R. 60  
STA. 108+30.00 TO STA. 109+00.00

HOL-COUNTY TRAIL  
PHASE 5C2

82  
133

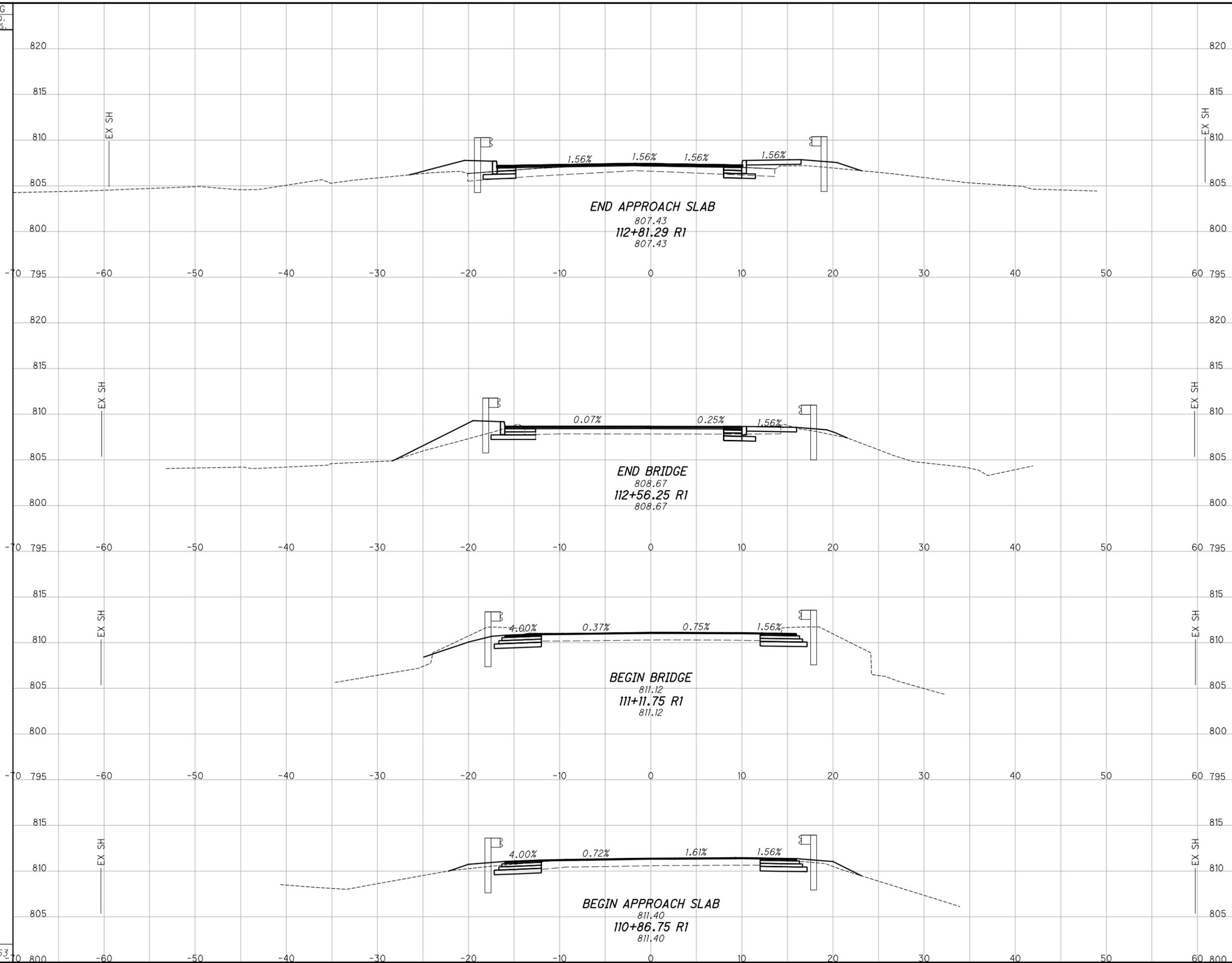
48 17



G:\DE\Clients\OH\_Holmes County\_Parks\10022288\_SR60\120806\_SR60\Design\Roadway\Sheets\20806\_XS100.dgn SR\_60\_SHEET 9/2/2025 10:2:57 AM A.A. Adair

SEEDING	
END WIDTH	SO. YDS.
15.3	

END AREA		VOLUME		CALCULATED AKA	CHECKED MS
CUT	FILL	CUT	FILL		
		34	21	84	133



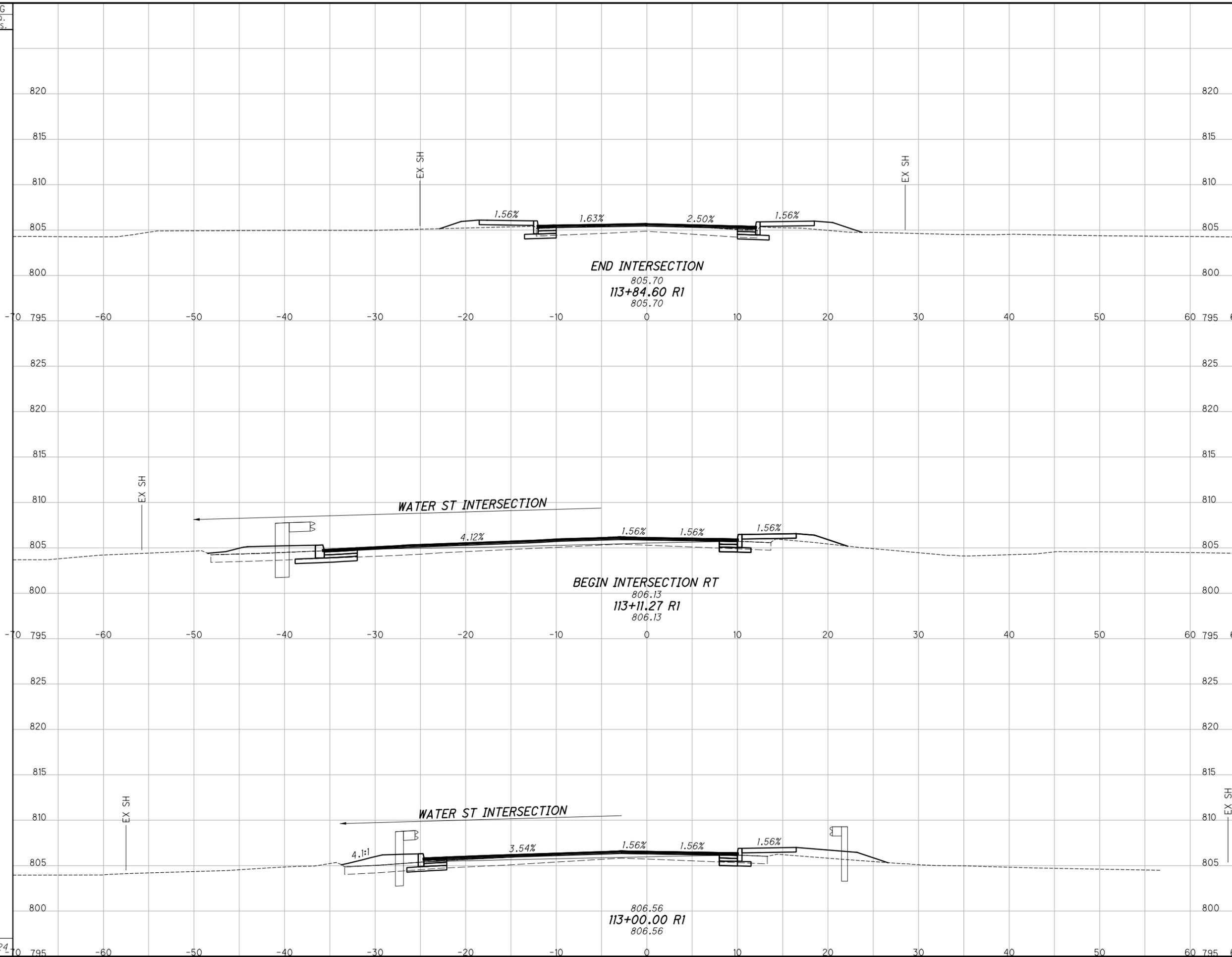
**CROSS SECTIONS - S.R. 60  
STA. 110+86.75 TO STA. 112+81.29**

**HOL-COUNTY TRAIL  
PHASE 5C2**

84  
133

G:\DE\clients\04\_Holmes County\_Parks\10022288\_Sr60\120806\_Sr60\Design\Roadway\_Sheets\20806\_XS100.dgn SR\_60\_SHEET 9/2/2025 10:2:57 AM A.A.dair

SEEDING	
END WIDTH	SO. YDS.
124	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		12	44

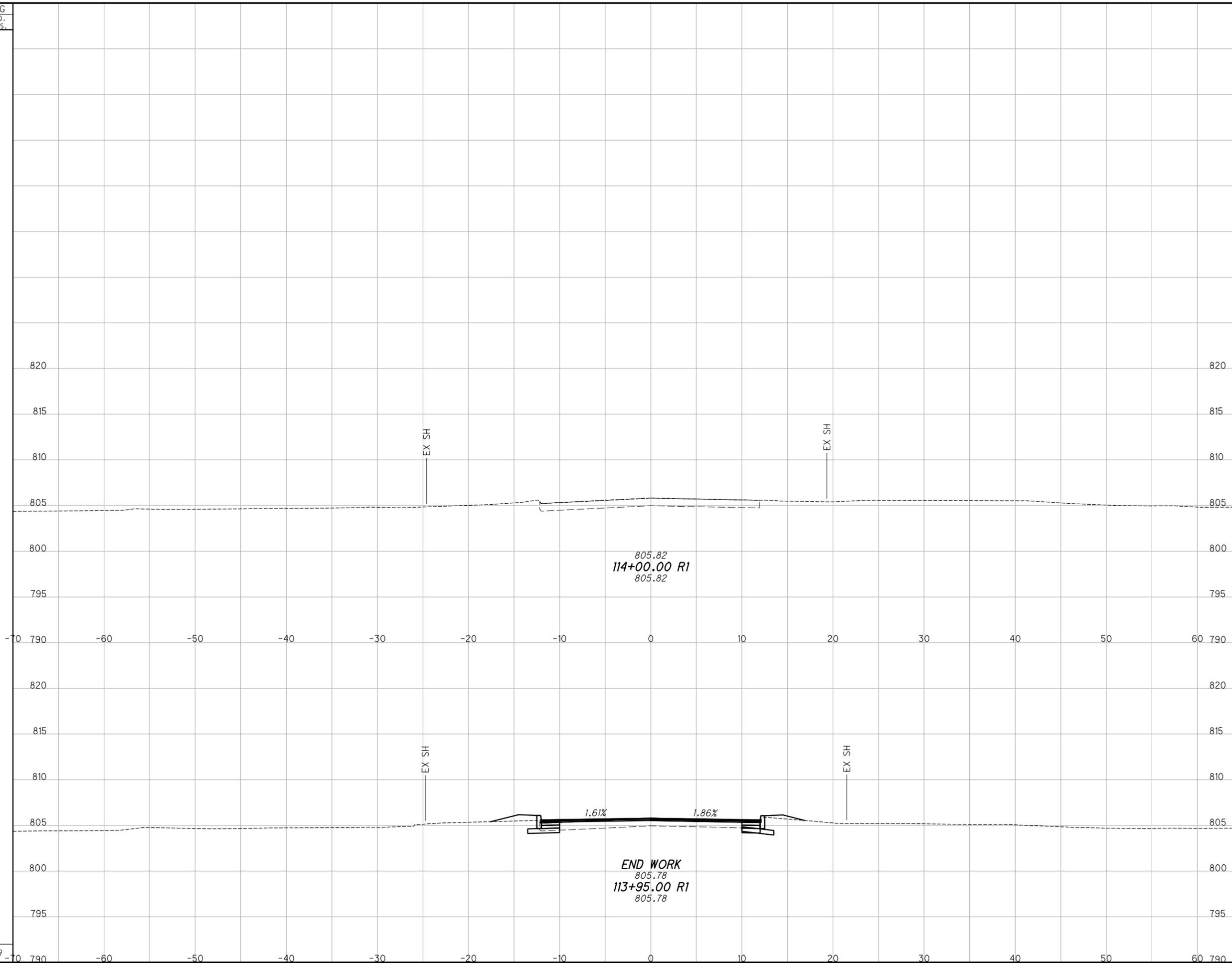
HOL-COUNTY TRAIL  
 PHASE 5C2  
 CROSS SECTIONS - S.R. 60  
 STA. 113+00.00 TO STA. 113+84.60

85  
 133

G:\DE\clients\04\_Holmes County\_Parks\10022288\_Sr60\120806\_Sr60\Design\Roadway\Sheets\20806\_XS100.dgn SR\_60\_SHEET 9/2/2025 10:2:58 AM A.Adair

SEEDING	
END WIDTH	SO. YDS.

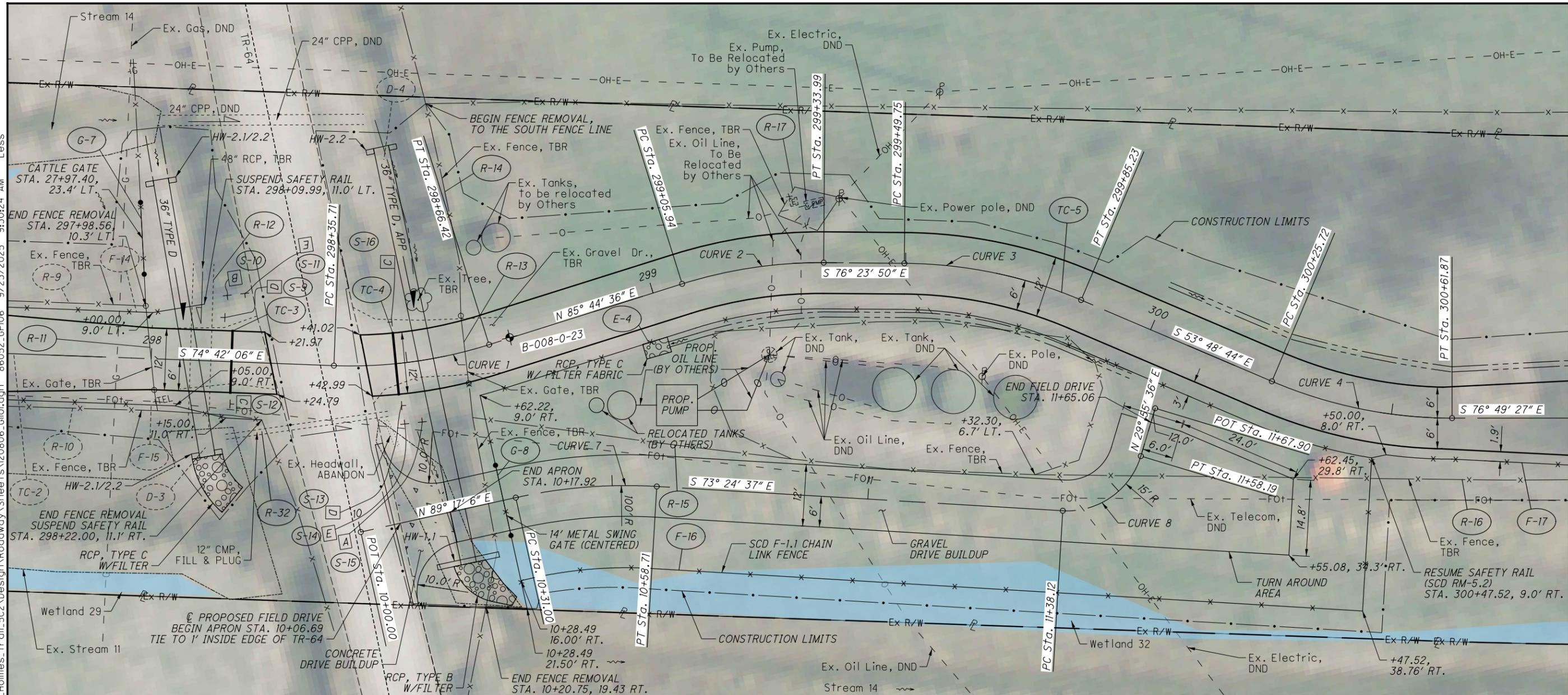
END AREA		VOLUME		CALCULATED AKA	CHECKED MS
CUT	FILL	CUT	FILL		



**CROSS SECTIONS - S.R. 60  
STA. 113+95.00 TO STA. 114+00.00**

**HOL-COUNTY TRAIL  
PHASE 5C2**

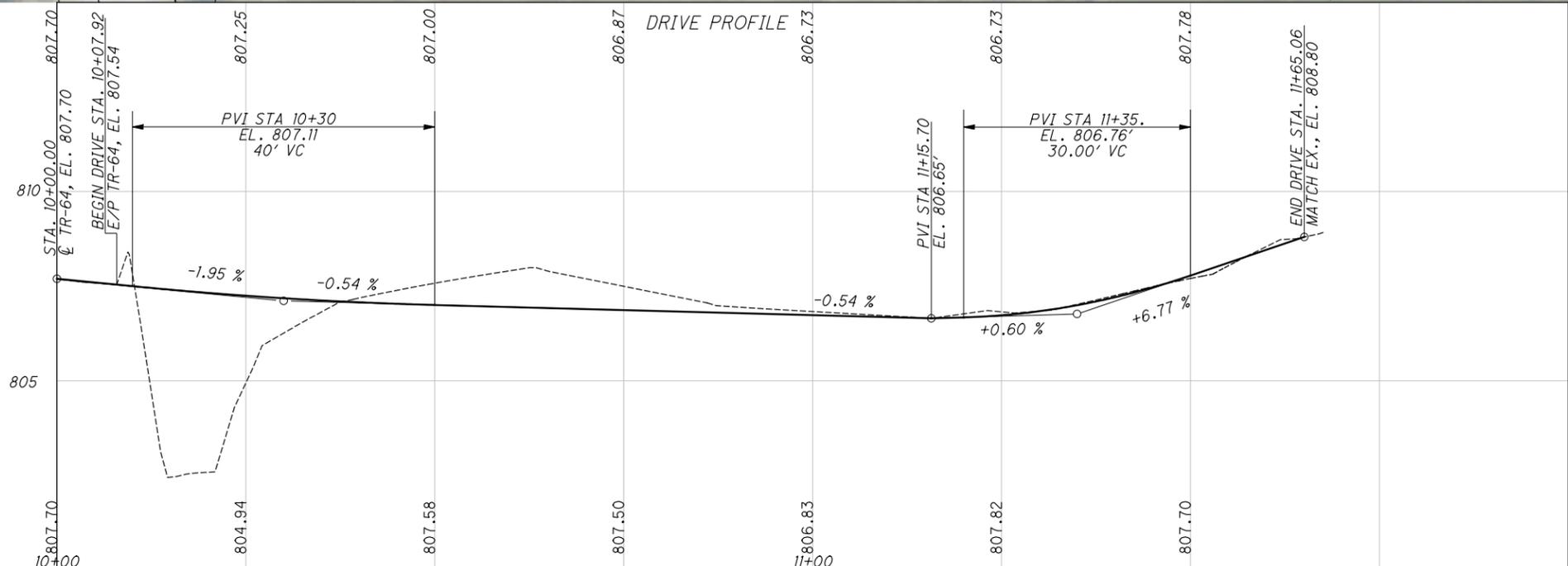
G:\DE\Clients\OH\_Holmes County Parks\1002372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Roadway\Sheets\120806\_GI01.dgn 86052\_GPI06 9/23/2025 9:30:24 AM Less



INTERSECTION DETAILS  
TR-64

**NOTES:**

1. FOR TYPICAL DRIVE SECTION, SEE SHEET 11.
2. FOR SIGN LEGEND, SEE SHEET 15.
3. FOR GATE SYSTEM DETAILS, SEE SHEET 95.



$\Delta = 15^\circ 52' 29''$  (RT)  
 $D_c = 57' 17' 45''$   
 $R = 100.00'$   
 $T = 13.94'$   
 $L = 27.71'$   
 $E = 0.97'$   
 $C = 27.62'$   
 $C.B. = S 81^\circ 20' 52'' E$

$\Delta = 76^\circ 39' 47''$  (LT)  
 $D_c = 381' 58' 19''$   
 $R = 15.00'$   
 $T = 11.86'$   
 $L = 20.07'$   
 $E = 4.12'$   
 $C = 18.61'$   
 $C.B. = N 68^\circ 15' 29'' E$

HOL-COUNTY TRAIL  
PHASE 5C2

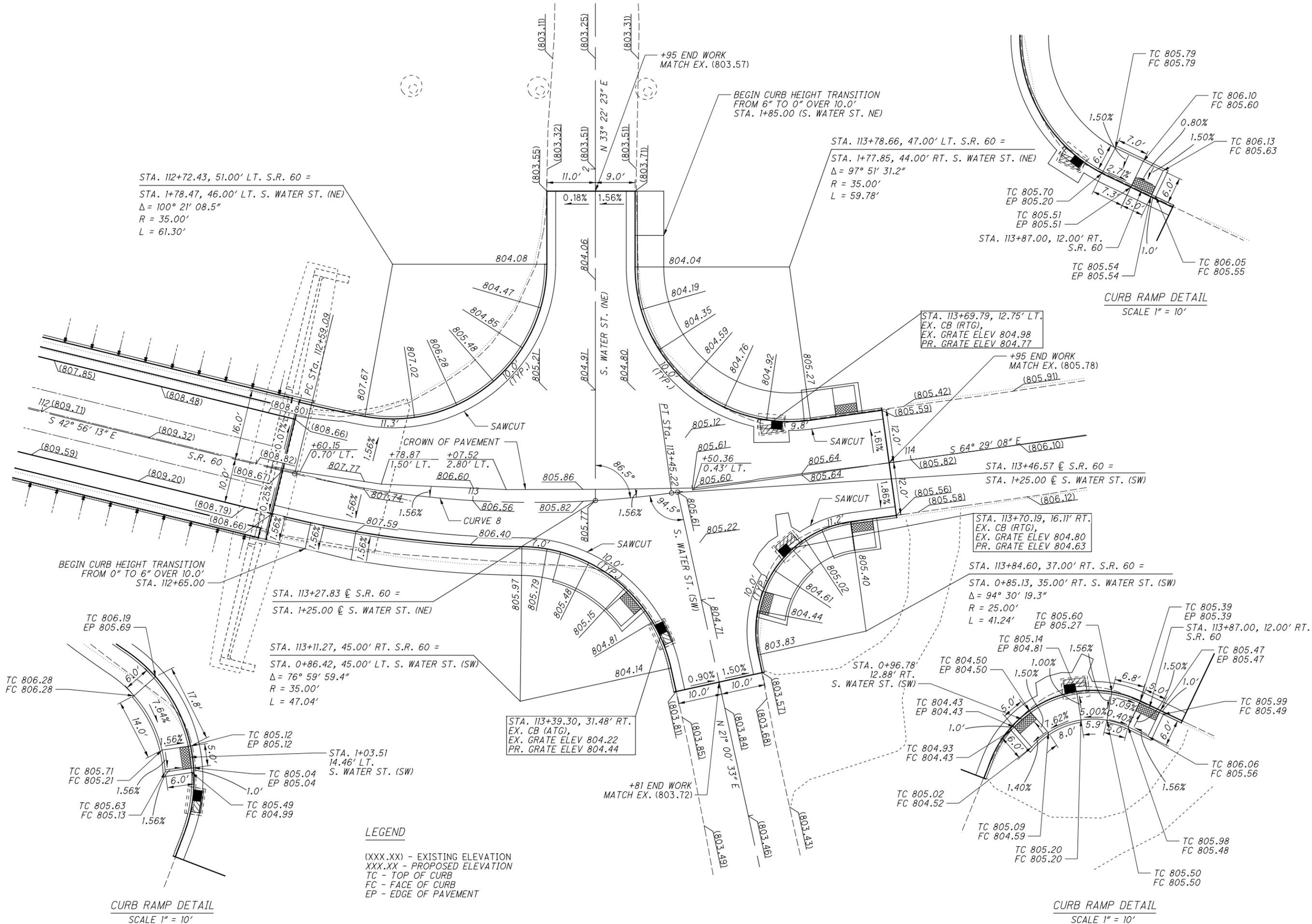


CALCULATED  
KLD  
CHECKED  
AKA

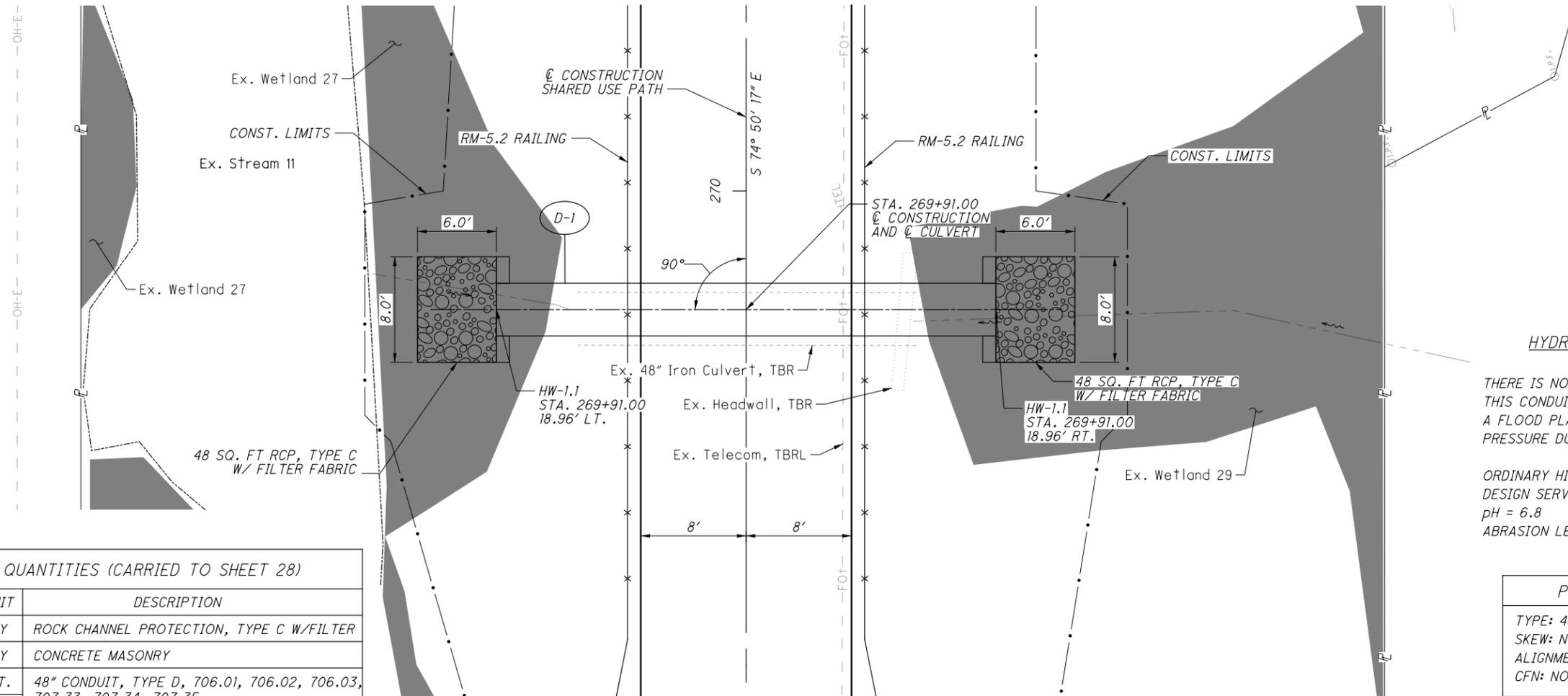
**INTERSECTION DETAIL  
S.R. 60 AND S. WATER ST.**

**HOL-COUNTY TRAIL  
PHASE 5C2**

G:\DE\clients\OH\_Holmes County Parks\10022288\_SR60\20806\_SR60\Design\Roadway\_Sheets\20806\_G10.dgn Sheet 9/2/2025 10:13:11 AM A.Adir



G:\DE\Clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Drainage\_Sheets\20806\_DC001.dgn Sheet 9/2/2025 10:13:13 AM A.Adoir



ESTIMATED QUANTITIES (CARRIED TO SHEET 28)

ITEM	QUANTITY	UNIT	DESCRIPTION
601	5.3	CY	ROCK CHANNEL PROTECTION, TYPE C W/FILTER
602	17.6	CY	CONCRETE MASONRY
611	38	FT.	48" CONDUIT, TYPE D, 706.01, 706.02, 706.03, 707.33, 707.34, 707.35,

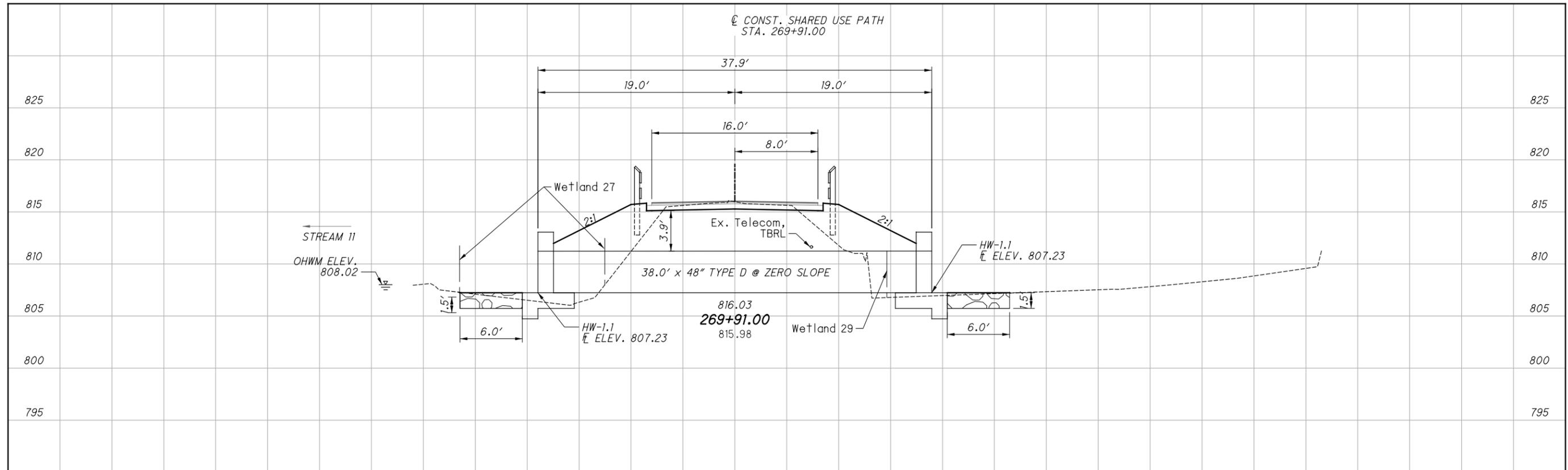
**HYDRAULIC DATA**

THERE IS NO DEFINED AREA FEEDING THIS CONDUIT. IT IS INSTALLED AS A FLOOD PLAIN CONDUIT TO RELEASE PRESSURE DURING FREQUENT FLOODING.

ORDINARY HIGH WATER MARK: 811.69  
 DESIGN SERVICE LIFE: 75 YRS  
 pH = 6.8  
 ABRASION LEVEL: 1

PROPOSED STRUCTURE

TYPE: 48" CONDUIT, TYPE D
SKEW: NONE
ALIGNMENT: TANGENT
CFN: NONE



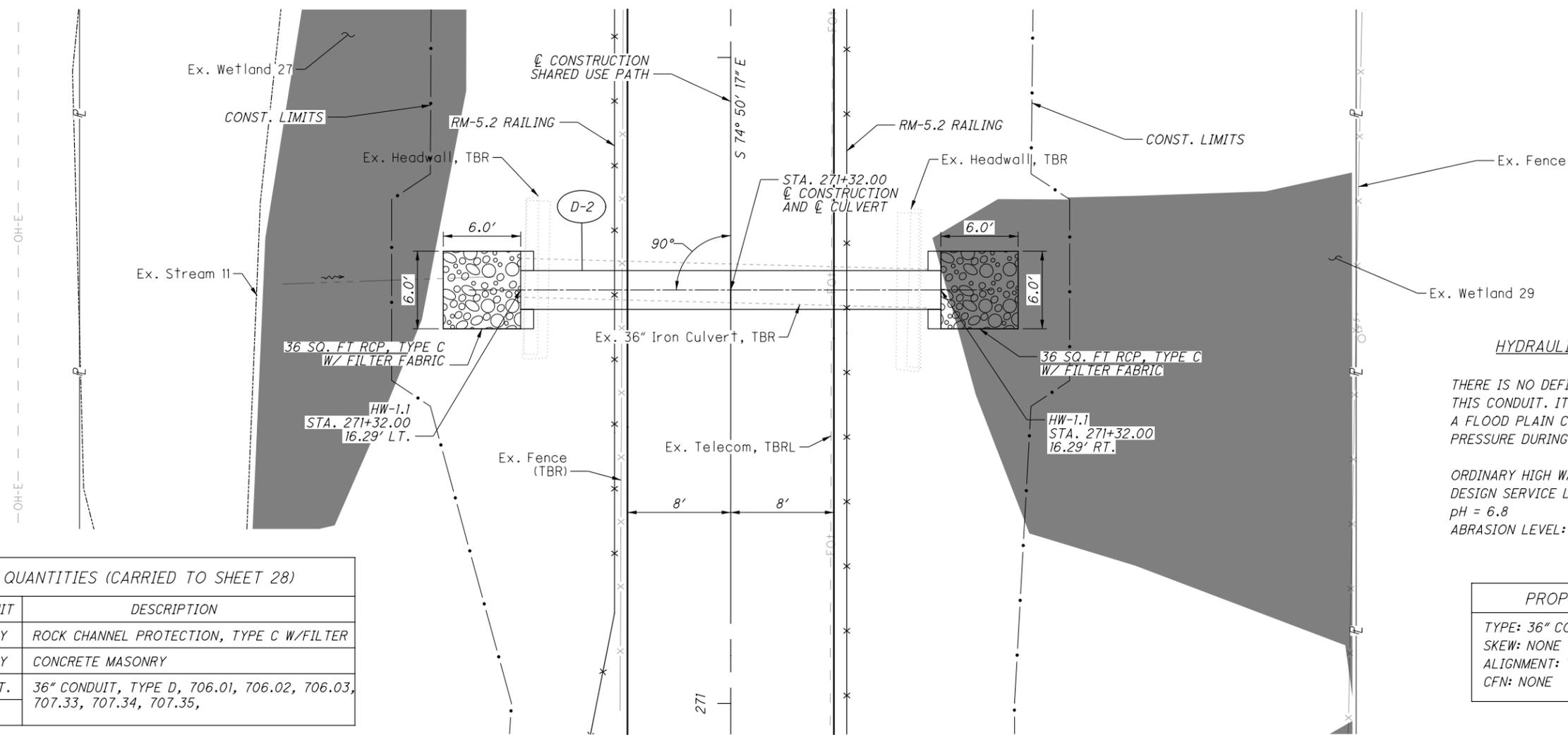
0 5 10  
 HORIZONTAL SCALE IN FEET

CALCULATED MS  
 CHECKED TML

CULVERT DETAILS  
 STA. 269+91.00

HOL-COUNTY TRAIL  
 PHASE 5C2

G:\DE\Clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\1020806\_Holmes\_Trail\_5C2\Design\Drainage\_Sheets\1020806\_DC002.dgn Sheet 9/2/2025 10:31:14 AM A.Adair



ESTIMATED QUANTITIES (CARRIED TO SHEET 28)

ITEM	QUANTITY	UNIT	DESCRIPTION
601	4.0	CY	ROCK CHANNEL PROTECTION, TYPE C W/FILTER
602	14.4	CY	CONCRETE MASONRY
611	33	FT.	36" CONDUIT, TYPE D, 706.01, 706.02, 706.03, 707.33, 707.34, 707.35,

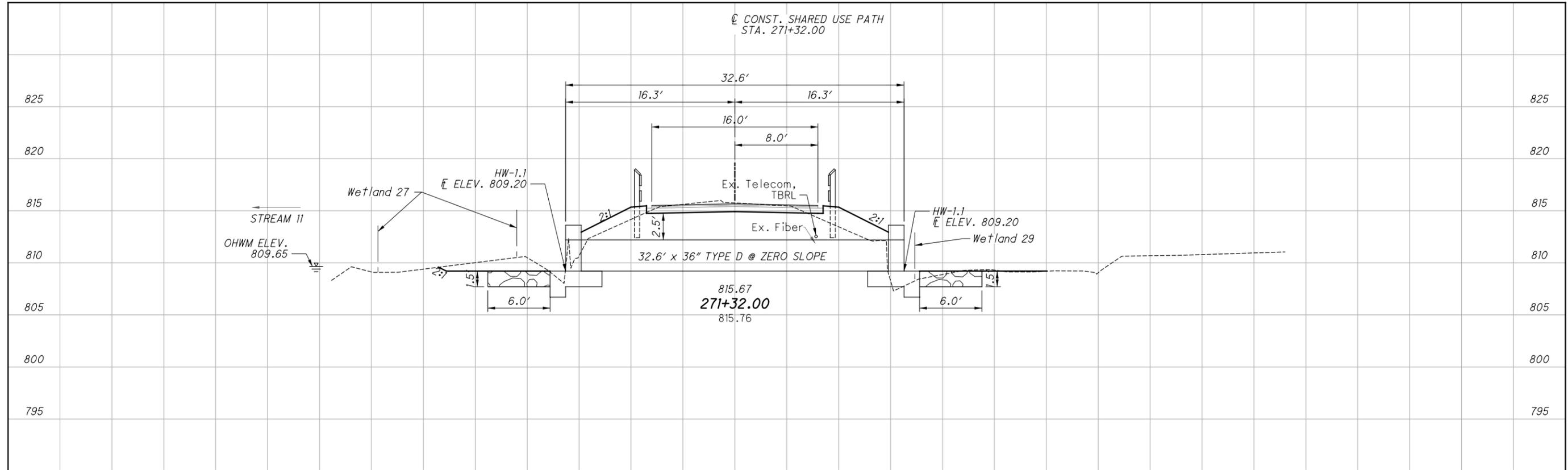
**HYDRAULIC DATA**

THERE IS NO DEFINED AREA FEEDING THIS CONDUIT. IT IS INSTALLED AS A FLOOD PLAIN CONDUIT TO RELEASE PRESSURE DURING FREQUENT FLOODING.

ORDINARY HIGH WATER MARK: 811.69  
 DESIGN SERVICE LIFE: 75 YRS  
 pH = 6.8  
 ABRASION LEVEL: 1

PROPOSED STRUCTURE

TYPE: 36" CONDUIT, TYPE D
SKEW: NONE
ALIGNMENT: TANGENT
CFN: NONE



CALCULATED  
MS

CHECKED  
TML

HORIZONTAL  
SCALE IN FEET

CULVERT DETAILS

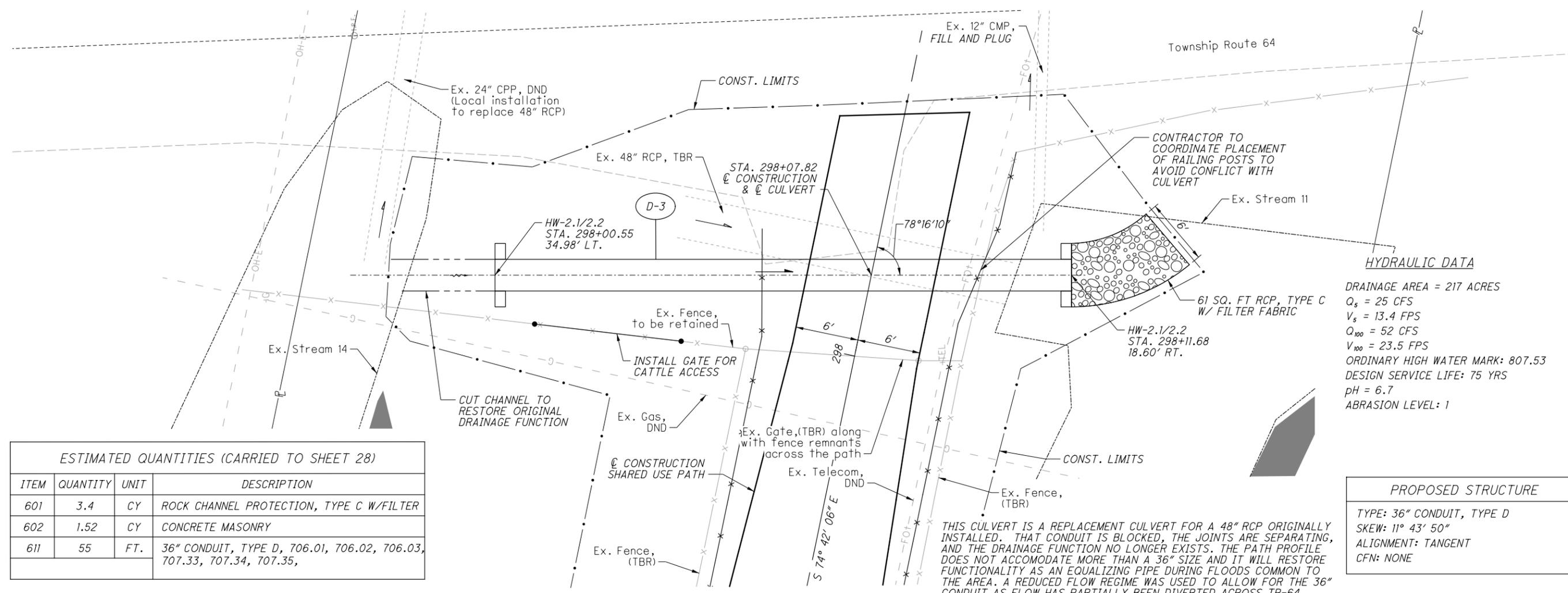
STA. 271+32.00

HOL-COUNTY TRAIL

PHASE 5C2

90

133



**HYDRAULIC DATA**

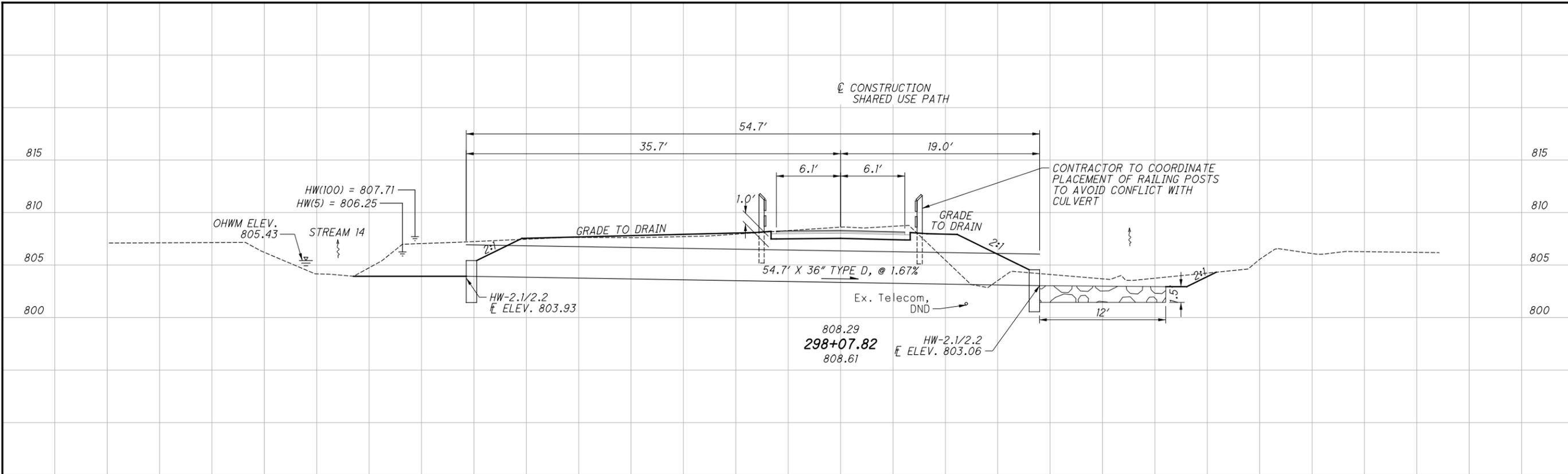
DRAINAGE AREA = 217 ACRES  
 Q<sub>5</sub> = 25 CFS  
 V<sub>5</sub> = 13.4 FPS  
 Q<sub>100</sub> = 52 CFS  
 V<sub>100</sub> = 23.5 FPS  
 ORDINARY HIGH WATER MARK: 807.53  
 DESIGN SERVICE LIFE: 75 YRS  
 pH = 6.7  
 ABRASION LEVEL: 1

**ESTIMATED QUANTITIES (CARRIED TO SHEET 28)**

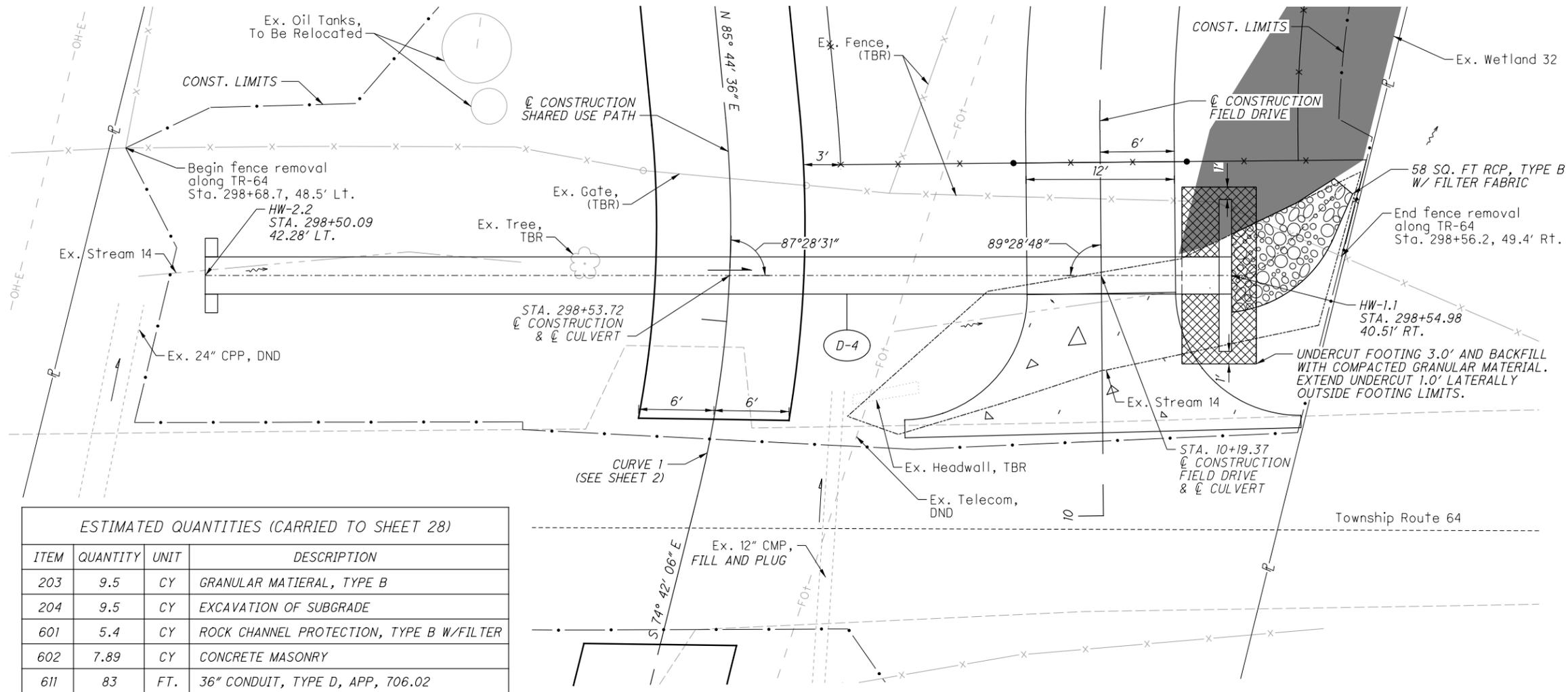
ITEM	QUANTITY	UNIT	DESCRIPTION
601	3.4	CY	ROCK CHANNEL PROTECTION, TYPE C W/FILTER
602	1.52	CY	CONCRETE MASONRY
611	55	FT.	36" CONDUIT, TYPE D, 706.01, 706.02, 706.03, 707.33, 707.34, 707.35,

**PROPOSED STRUCTURE**

TYPE: 36" CONDUIT, TYPE D  
 SKEW: 11° 43' 50"  
 ALIGNMENT: TANGENT  
 CFN: NONE



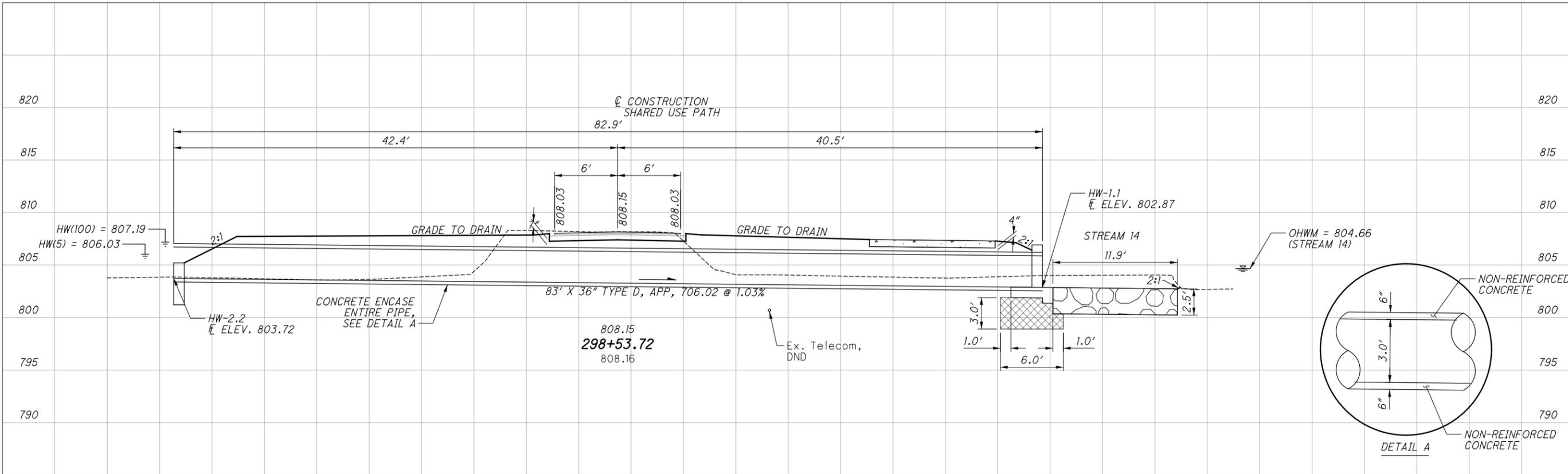
G:\DE\Clients\OH\_Holmes County Parks\1002372\_Holmes\_Trail\_5C2\20806\_Holmes\_Trail\_5C2\Design\Drawings\Sheet 9/2/2025 10:31:17 AM A.A. Adair



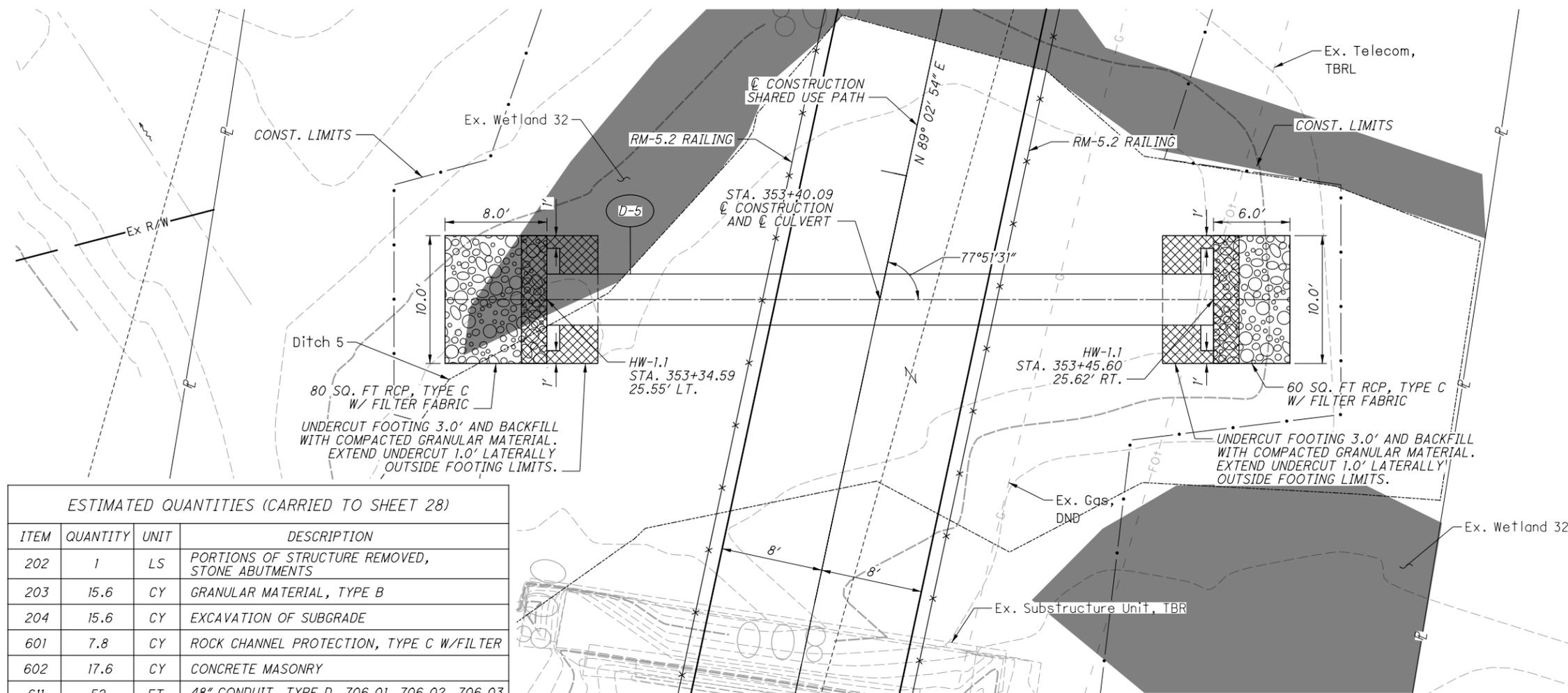
**HYDRAULIC DATA**  
 DRAINAGE AREA = 71 ACRES  
 $Q_5 = 29.9$  CFS  
 $V_5 = 9.8$  FPS  
 $Q_{100} = 51.3$  CFS  
 $V_{100} = 11.2$  FPS  
 ORDINARY HIGH WATER MARK: 804.66  
 DESIGN SERVICE LIFE: 75 YRS  
 pH = 6.7  
 ABRASION LEVEL: 1

ESTIMATED QUANTITIES (CARRIED TO SHEET 28)			
ITEM	QUANTITY	UNIT	DESCRIPTION
203	9.5	CY	GRANULAR MATERIAL, TYPE B
204	9.5	CY	EXCAVATION OF SUBGRADE
601	5.4	CY	ROCK CHANNEL PROTECTION, TYPE B W/FILTER
602	7.89	CY	CONCRETE MASONRY
611	83	FT.	36" CONDUIT, TYPE D, APP, 706.02

PROPOSED STRUCTURE	
TYPE:	36" CONDUIT, TYPE D, APP
SKEW:	2° 35' 52"
ALIGNMENT:	CURVE
CFN:	NONE



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**ESTIMATED QUANTITIES (CARRIED TO SHEET 28)**

ITEM	QUANTITY	UNIT	DESCRIPTION
202	1	LS	PORTIONS OF STRUCTURE REMOVED, STONE ABUTMENTS
203	15.6	CY	GRANULAR MATERIAL, TYPE B
204	15.6	CY	EXCAVATION OF SUBGRADE
601	7.8	CY	ROCK CHANNEL PROTECTION, TYPE C W/FILTER
602	17.6	CY	CONCRETE MASONRY
611	52	FT.	48" CONDUIT, TYPE D, 706.01, 706.02, 706.03, 707.33, 707.34, 707.35,

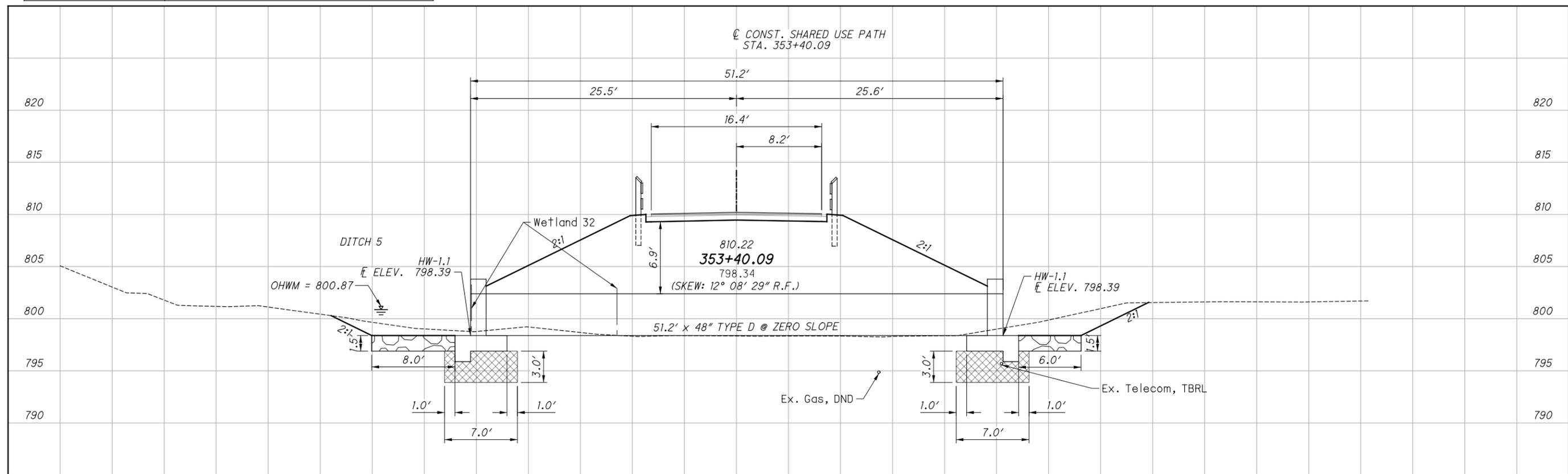
**HYDRAULIC DATA**

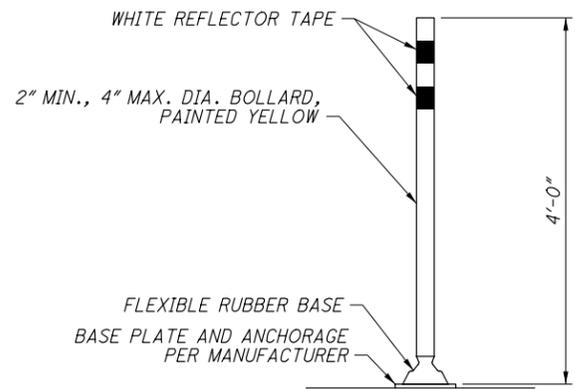
THERE IS NO DEFINED AREA FEEDING THIS CONDUIT. IT IS INSTALLED AS A FLOOD PLAIN CONDUIT TO RELEASE PRESSURE DURING FREQUENT FLOODING.

ORDINARY HIGH WATER MARK: 800.67  
 DESIGN SERVICE LIFE: 75 YRS  
 pH = 6.8  
 ABRASION LEVEL: 1

**PROPOSED STRUCTURE**

TYPE: 48" CONDUIT, TYPE D  
 SKEW: 12° 08' 29" R.F.  
 ALIGNMENT: TANGENT  
 CFN: NONE

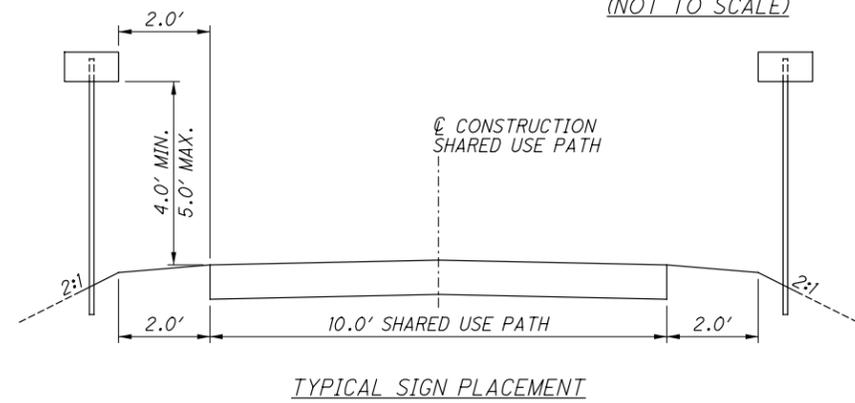
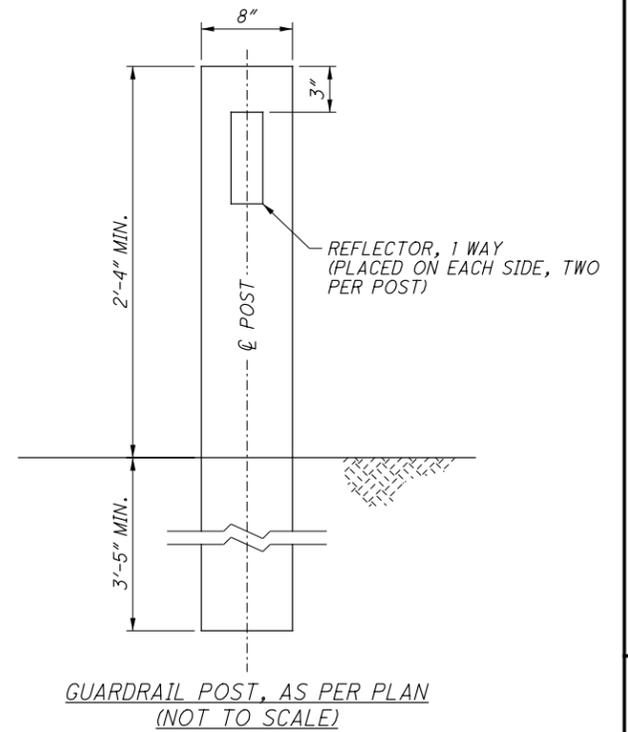
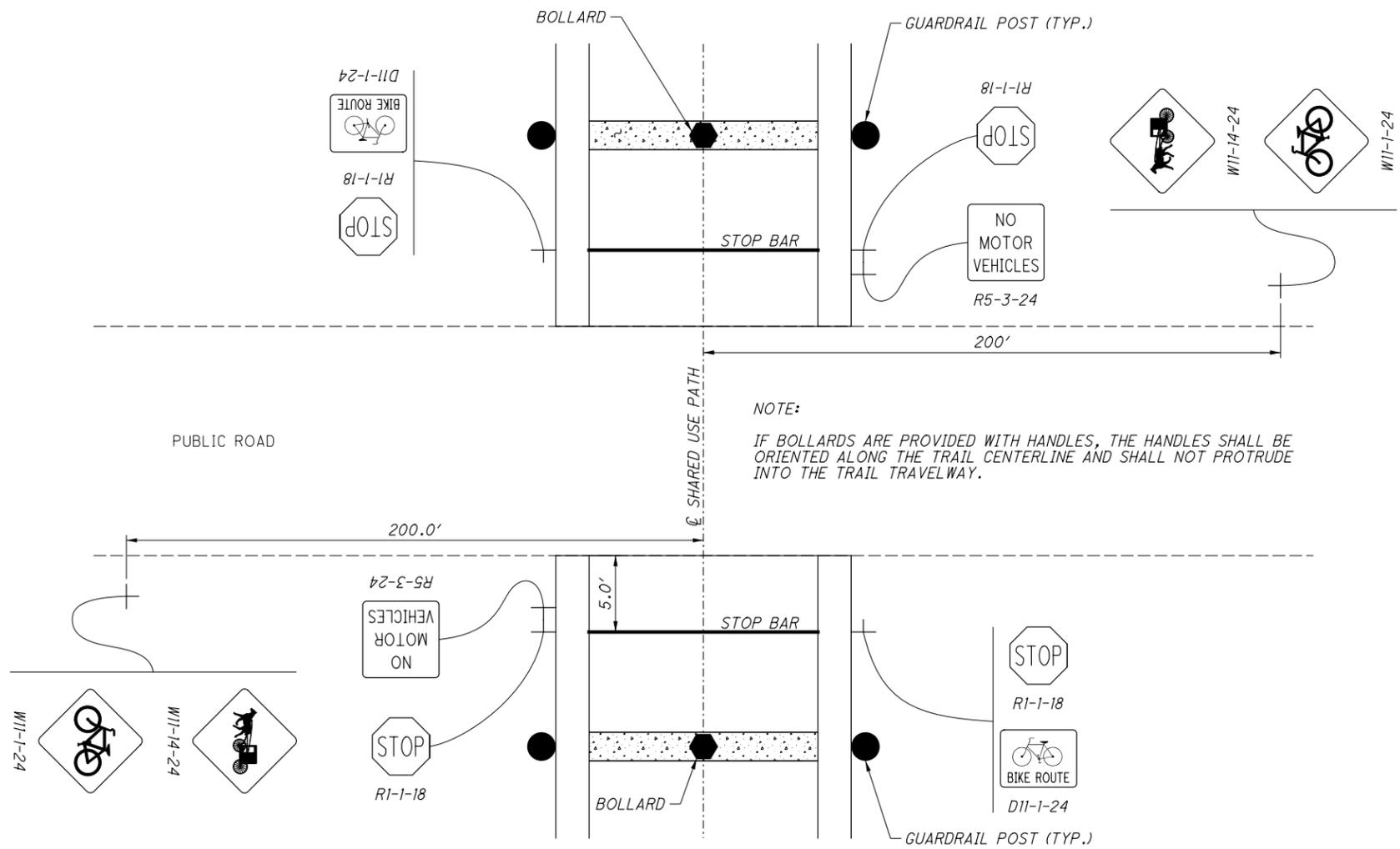




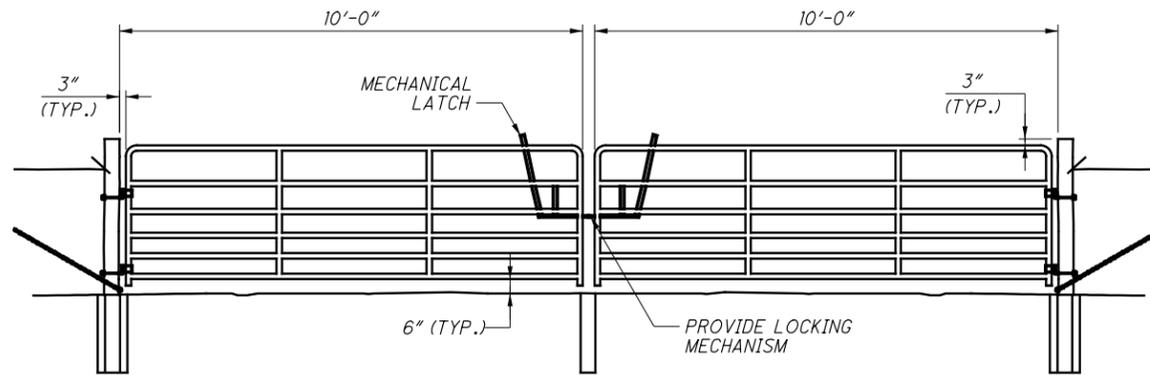
BOLLARD DETAIL

**NOTES:**

1. PROVIDE FLEXIBLE BOLLARD AS SHOWN. BOLLARD SHALL BE CAPABLE OF WITHSTANDING IMPACT OF UP TO 15 MPH BY A STANDARD VEHICLE AND RETURNING TO AN UPRIGHT POSITION.
2. ANCHOR BOLLARD TO ASPHALT PER MANUFACTURER'S RECOMMENDATIONS.
3. BOLLARD SHALL BE REMOVABLE FROM THE BASE USING A MANUFACTURER SUPPLIED TOOL. PROVIDE THE TOOL TO HOLMES COUNTY PARK DISTRICT UPON COMPLETION OF THE WORK.
4. BOLLARD LOCATIONS (4 EACH TOTAL):  
SR-520 TRAIL ENTRANCE  
TWP. RD. 64, EACH SIDE  
SR-64 TRAIL ENTRANCE
5. PAYMENT FOR INSTALLATION OF THE BOLLARDS SHALL BE MADE AT THE EACH BOLLARD UNIT QUANTITY FOR ITEM 690 SPECIAL - BOLLARDS, INCLUDING ALL LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THE WORK.

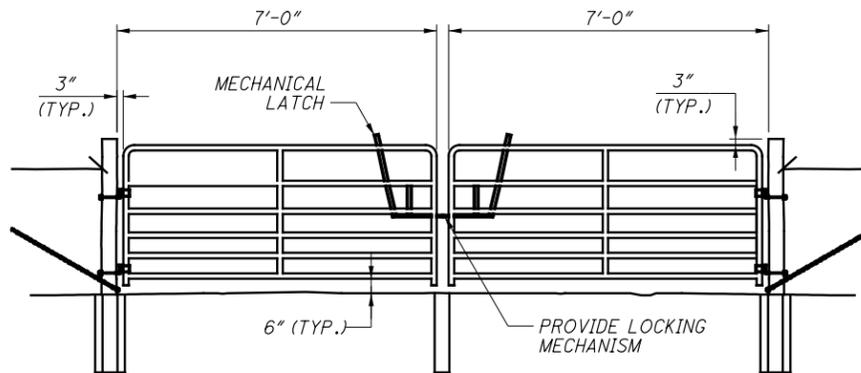


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**10 FT METAL SWING GATE DETAIL**

STA. 280+00.00 TO STA. 280+22.56  
 STA. 280+06.94 TO STA. 280+28.52  
 STA. 307+00.00 TO STA. 307+21.90  
 STA. 307+04.25 TO STA. 307+25.07  
 STA. 314+94.50 TO STA. 315+14.90 (LT.)  
 STA. 314+94.50 TO STA. 315+14.90 (RT.)

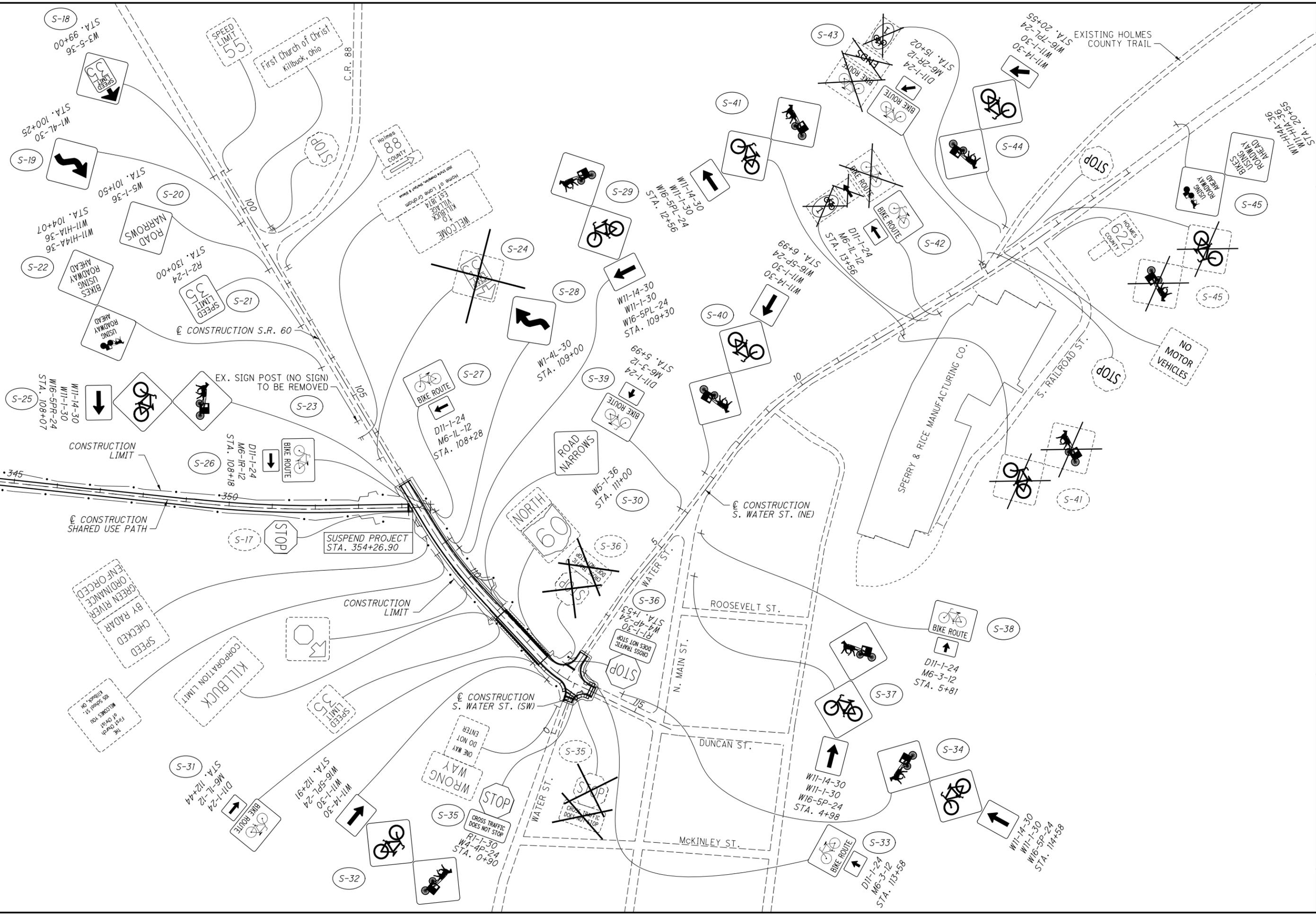


**7 FT METAL SWING GATE DETAIL**

€ PROP. FIELD DRIVE OFF TR-64 STA. 10+23.49

**NOTES:**

1. SEE USFS STD. 942-20-01 FOR ADDITIONAL METAL SWING GATE DETAILS.



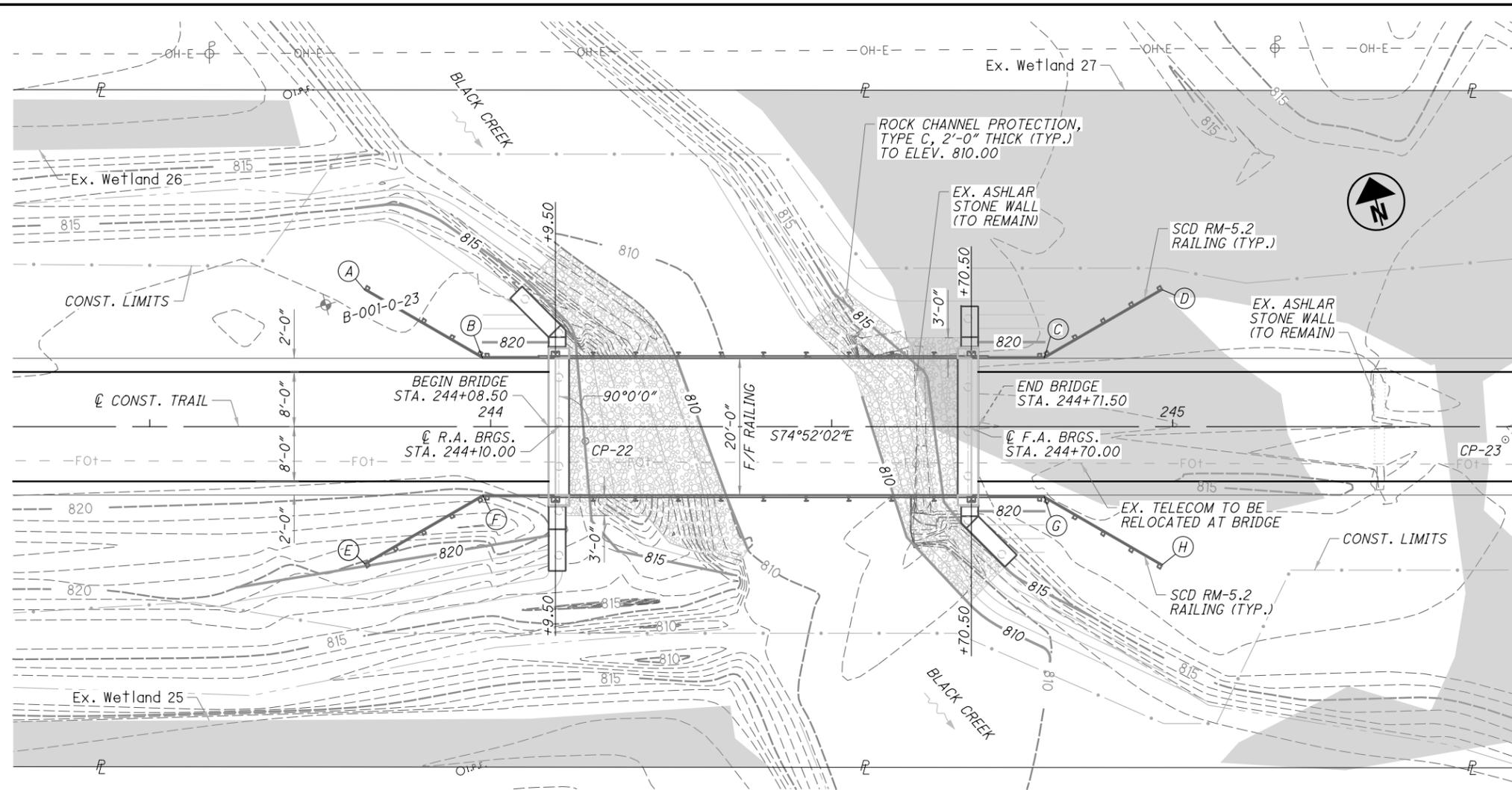
CALCULATED MS CHECKED TML

0 100 200

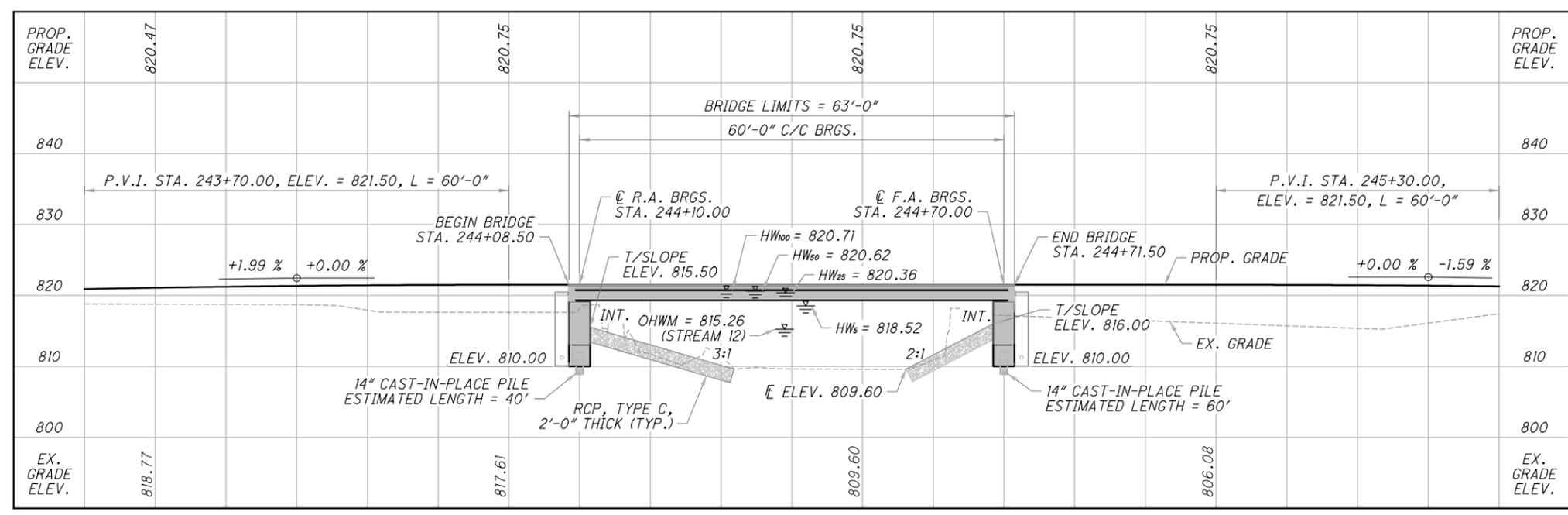
HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL**

**HOL-COUNTY TRAIL  
PHASE 5C2**



**PLAN**



**PROFILE (ALONG C CONST. TRAIL)**

BENCHMARK DATA			
CP-22	STA. 244+13.86,	ELEV. 818.90,	OFFSET 2.1' RT.
CP-23	STA. 244+48.80,	ELEV. 817.32,	OFFSET 1.9' RT.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 3/133

**NOTES**  
EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

**LEGEND**  
 BORING LOCATION  
 ROCK CHANNEL PROTECTION, TYPE C, 2'-0" THICK

**RM-5.2 RAILING STATIONS**

(A)	STA. 243+81.51	OFFSET 20.0' LT.
(B)	STA. 243+98.83	OFFSET 10.0' LT.
(C)	STA. 244+81.17	OFFSET 10.0' LT.
(D)	STA. 244+98.49	OFFSET 20.0' LT.
(E)	STA. 243+81.51	OFFSET 20.0' RT.
(F)	STA. 243+98.83	OFFSET 10.0' RT.
(G)	STA. 244+81.17	OFFSET 10.0' RT.
(H)	STA. 244+98.49	OFFSET 20.0' RT.

**HYDRAULIC DATA**

DRAINAGE AREA = 33.1 SQ. MILES

Q (5) = 2690 CFS	V (5) = 0.84 FT/S	HYDRAULIC DESIGN
Q (25) = 4780 CFS	V (25) = 1.66 FT/S	SCOUR DESIGN
Q (50) = 5790 CFS	V (50) = 1.26 FT/S	SCOUR CHECK
Q (100) = 6860 CFS	V (100) = 1.43 FT/S	BRIDGE CHECK

STRUCTURE CLEARS THE 5 YEAR DESIGN HW BY 0.79 FEET.

EXISTING STRUCTURE	
TYPE:	TWO ASHLAR MASONRY ABUTMENTS (NO SUPERSTRUCTURE)
DISPOSITION:	TO REMAIN AS CHANNEL PROTECTION
PROPOSED STRUCTURE	
TYPE:	SINGLE SPAN COMPOSITE PRESTRESSED CONCRETE BOX BEAM ON INTEGRAL ABUTMENTS ON PILES
SPANS:	60'-0" C/C BRG.
ROADWAY:	20'-0" F/F TST RAILING
LOADING:	H15 TRUCK OR 90 PSF PEDESTRIAN LOADING
SKEW:	NONE
CURRENT WEARING SURFACE:	1/2" CONCRETE ASPHALT
FUTURE WEARING SURFACE:	0.03 KSF
APPROACH SLABS:	NONE
ALIGNMENT:	TANGENT
CROWN:	0.02 FT/FT
COORDINATES: LATITUDE 40°30'28"N LONGITUDE 82°01'27"W	

DESIGN AGENCY: EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-5225  
**WOOLPERT**  
 DESIGN CONSULTANTS  
 DATE: 06/2025  
 TML: 06/2025  
 STRUCTURE FILE NUMBER: 00000  
 DRAWN: JYM  
 CHECKED: JYM  
 DESIGNED: JYM  
 REVIEWED: JYM  
 HOLMES COUNTY  
 STA. 244+08.50  
 STA. 244+71.50  
 SITE PLAN  
 BRIDGE NO. 008  
 HOLMES COUNTY TRAIL OVER BLACK CREEK  
**HOL CO. TR. 5C2**  
 PID No. 120806  
 1/12  
 97  
 133

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**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:  
 DS-1-92 REVISED 7/15/2022  
 PSBD-1-25 REVISED 7/18/2025  
 TST-1-99 REVISED 1/15/2021

**DESIGN SPECIFICATIONS:**

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

**OPERATIONAL IMPORTANCE:**

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

**DESIGN LOADING:**

DESIGN LOADING INCLUDES:  
 0.090 KSF PEDESTRIAN LIVE LOAD OR  
 NON-CONCURRENT H15-44 (TRUCK ONLY)  
 FUTURE WEARING SURFACE OF 0.03 KSF  
 1/2" CONCRETE ASPHALT OVERLAY

**DESIGN DATA:**

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)  
 CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)  
 EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60 KSI (DECK, DIAPHRAGM, ABUTMENT)

CONCRETE FOR PRESTRESSED BEAMS:  
 COMPRESSIVE STRENGTH (FINAL) - 7.0 KSI  
 COMPRESSIVE STRENGTH (RELEASE) - 5.0 KSI  
 PRESTRESSING STRAND:  
 AREA = 0.167 SQ. IN.  
 ULTIMATE STRENGTH = 270 KSI  
 INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

**DECK PROTECTION METHOD:**

EPOXY COATED REINFORCING STEEL  
 2 1/2" CONCRETE COVER  
 STEEL DRIP STRIP

**MONOLITHIC WEARING SURFACE:**

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

**EXISTING STRUCTURE VERIFICATION:**

DETAILS AND DIMENSIONS ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**ABUTMENT DIAPHRAGM CONCRETE:**

DO NOT PLACE THE ABUTMENT CONCRETE ABOVE THE BRIDGE SEAT CONSTRUCTION UNTIL THE PRESTRESSED BOX BEAMS HAVE BEEN ERECTED.

**BEAM CAMBER:**

THE BEAM SEAT ELEVATIONS ASSUME ESTIMATED CAMBER AT DAY 30. THE ESTIMATED QUANTITY OF DECK CONCRETE IS MEASURED ACCORDING TO C&MS 511. IN ADDITION TO THE DESIGN SLAB THICKNESS, THE QUANTITY INCLUDES A VARIABLE HAUNCH THICKNESS THAT PROVIDES AN ALLOWANCE FOR BEAM CAMBER.

**DEMOLITION DEBRIS:**

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

**PILE DESIGN LOADS:**

THE ULTIMATE BEARING VALUE IS 175 KIPS PER PILE FOR THE REAR ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 175 KIPS PER PILE FOR THE FORWARD ABUTMENT PILES.

**ABUTMENT PILES:**

14" CLOSED-END, CIP PILES 45 FEET LONG, ORDER LENGTH (REAR ABUTMENT)  
 14" CLOSED-END, CIP PILES 65 FEET LONG, ORDER LENGTH (FORWARD ABUTMENT)

**ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):**

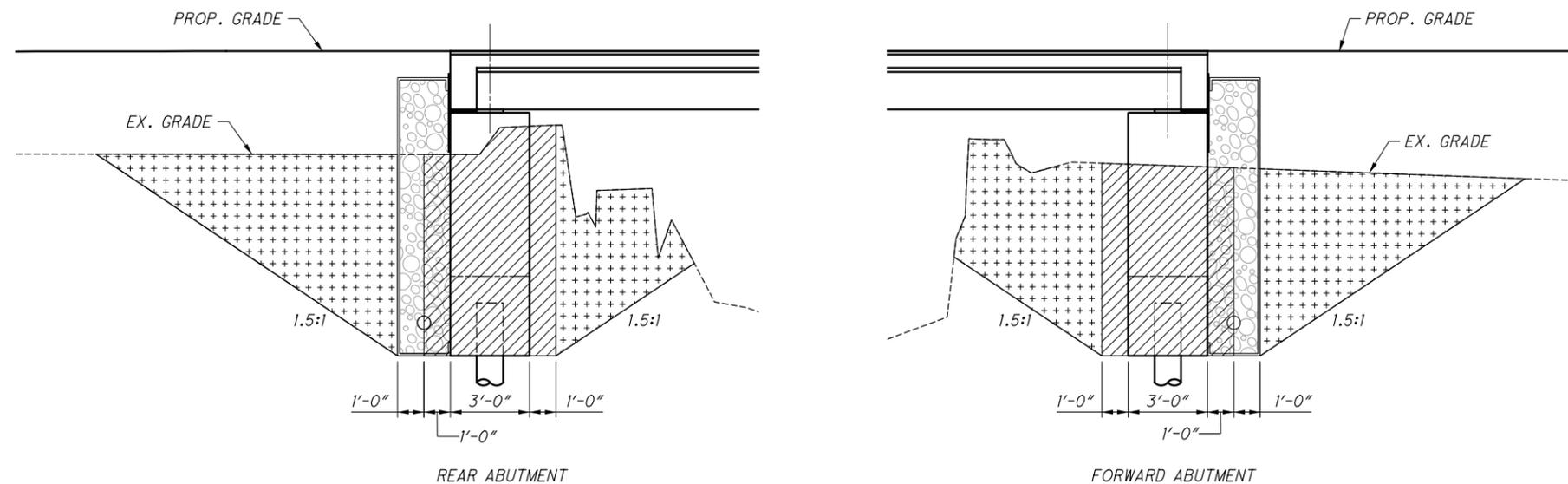
SEAL ALL CONCRETE SURFACES INCLUDING ABUTMENTS, WINGWALLS, THE OUTSIDE FASCIAS OF THE DECK AND EXTERIOR BEAMS, AND THE COMPLETE UNDERSIDE OF THE EXTERIOR BEAMS USING EPOXY-URETHANE SEALER. THE FINAL COLOR SHALL BE FEDERAL COLOR STANDARD NO. 17778, PER THE CMS.

**ITEM 517 - RAILING (TWIN STEEL TUBE), AS PER PLAN:**

THE TST-1-99 RAILING SHALL BE MODIFIED WITH AN EXTENDED POST AND ADDITIONAL STEEL TUBE SIDE RAIL TO PROVIDE A MINIMUM 4-FT HEIGHT FROM TOP OF RAIL TO TOP OF DECK. PAYMENT FOR THIS ITEM 517 - RAILING (TWIN STEEL TUBE), AS PER PLAN SHALL INCLUDE STEEL POSTS, STEEL TUBING SIDE RAILS, AND ALL CONNECTION ELEMENTS INCLUDING BOLTS, NUTS, AND WASHERS.

**ABBREVIATIONS:**

ABUT.	ABUTMENT
BRGS.	BEARINGS
C/C	CENTER-TO-CENTER
CL	CENTERLINE
CONST.	CONSTRUCTION
DIA.	DIAMETER
ELEV.	ELEVATION
EX.	EXISTING
F.A.	FORWARD ABUTMENT
F/F	FACE-TO-FACE
NPCPP	NON-PERFORATED CORRUGATED PLASTIC PIPE
PCPP	PERFORATED CORRUGATED PLASTIC PIPE
PROP.	PROPOSED
R.A.	REAR ABUTMENT
RCP	ROCK CHANNEL PROTECTION
T/	TOP OF
TYP.	TYPICAL
W/	WITH



EXCAVATION LIMITS

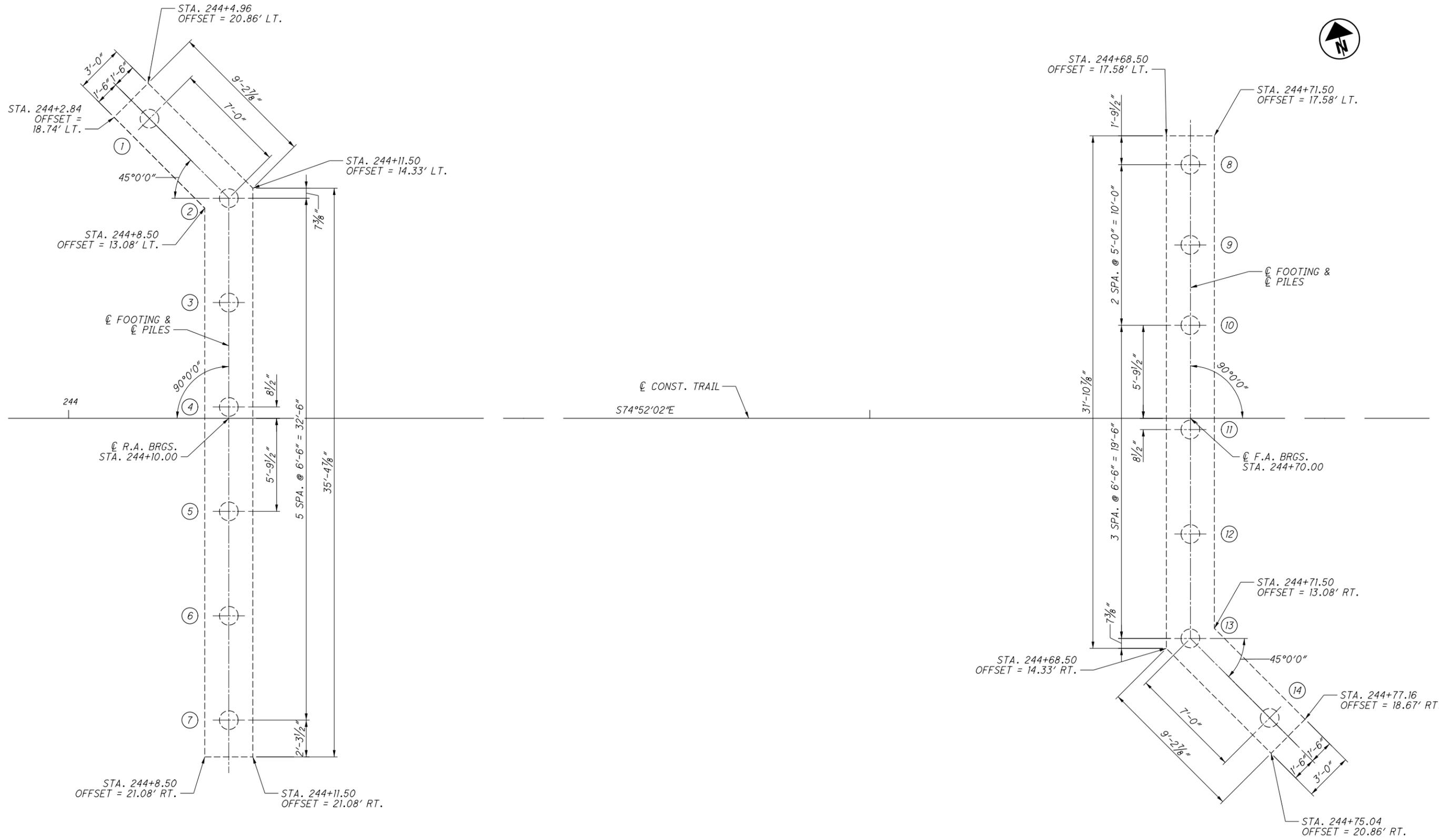
- LIMITS OF UNCLASSIFIED EXCAVATION
- ITEM 203 - EXCAVATION
- ITEM 518 - POROUS BACKFILL W/ GEOTEXTILE FABRIC

DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-476-8000 F 614-476-8225 WOOLPERT DESIGN ENGINEERING ARCHITECTURE	DATE 06/2025	REVIEWED TML	STRUCTURE FILE NUMBER 00000	DRAWN JYM	REVISION REVISED	DESIGNED JYM	CHECKED PES
STRUCTURE GENERAL NOTES BRIDGE NO. 008 HOLMES COUNTY TRAIL OVER BLACK CREEK							
HOL CO. TR. 5C2 PID No. 120806							
2 / 12							
98 133							

BRIDGE B8 ESTIMATED QUANTITIES					DATE: 6/12/2025
					DATE: 6/17/2025
ITEM	EXT	QUANTITY	UNIT	DESCRIPTION	SHEET
203	10000	253	CY	EXCAVATION	
203	20000	320	CY	EMBANKMENT	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
503	21100	122	CY	UNCLASSIFIED EXCAVATION	
505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
507	00600	700	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
507	00650	770	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
509	10000	10995	LB	EPOXY COATED STEEL REINFORCEMENT	
511	31610	27	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
511	44110	55	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	
511	46510	28	CY	CLASS QC1 CONCRETE, FOOTING	
512	10100	126	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
515	12030	5	EA	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48, 61'-0"	
516	13900	24	SF	2" PREFORMED EXPANSION JOINT FILLER	
516	14014	53	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
516	31010	40	FT	2" DEEP JOINT SEALER	
516	43101	20	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN, 1.5" THICK	7/12
517	70001	132	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	2/12
518	21200	59	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
SPECIAL	518E22300	149	FT	STEEL DRIP STRIP	
518	40000	81	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	70	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
601	32200	90	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
856	10000	6	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE	

CALC BY: JYM  
 CHECK BY: SL  
 DATE: 6/12/2025  
 DATE: 6/17/2025

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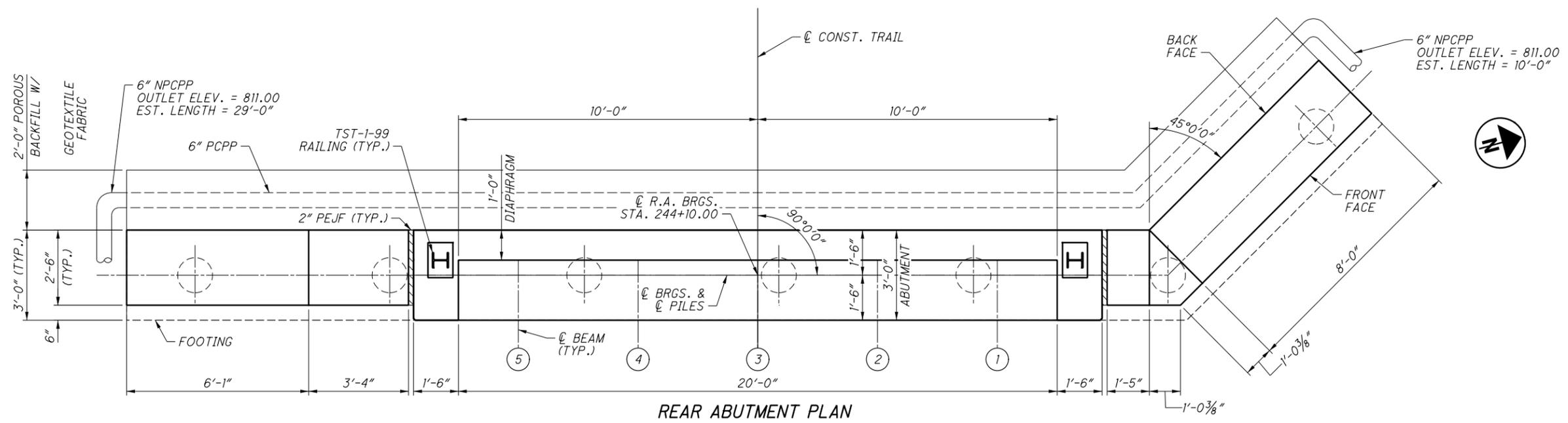


- LEGEND:**
- 14" CIP PILE
  - ⊕ PILE NUMBER

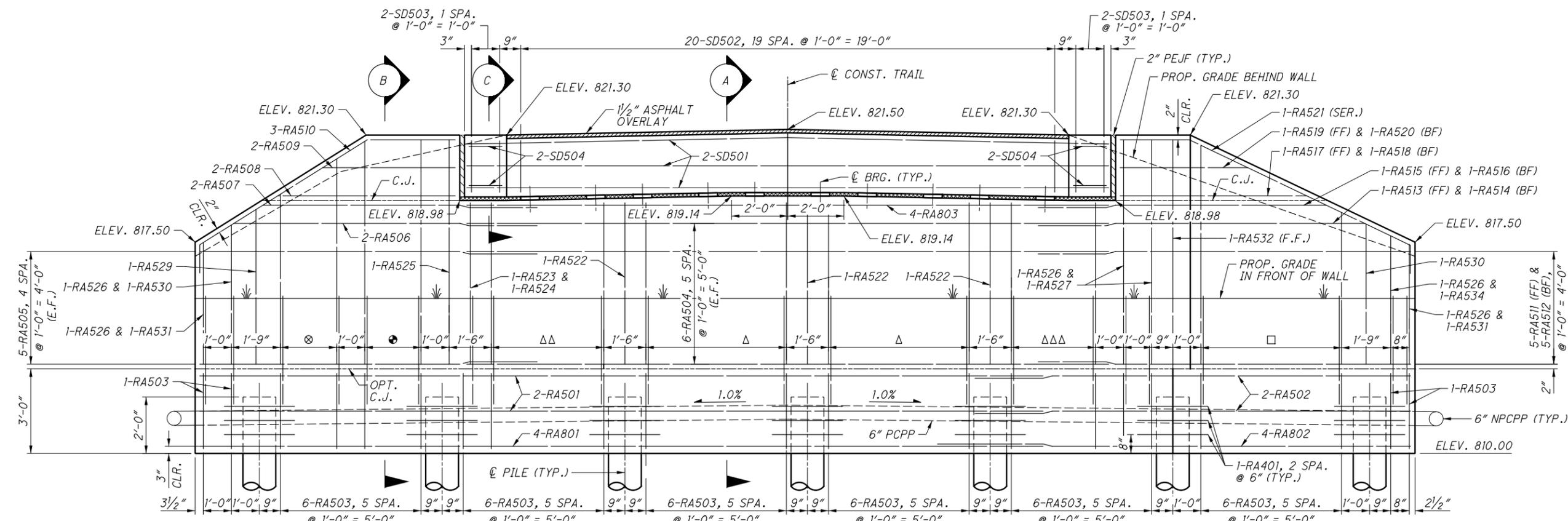
- NOTES:**
- SEE SHEET 5/12 FOR REAR ABUTMENT PLAN AND ELEVATION.
  - SEE SHEET 6/12 FOR FORWARD ABUTMENT PLAN AND ELEVATION.
  - ESTIMATED PILE LENGTHS ARE AS FOLLOWS:  
 REAR ABUTMENT = 40 FT  
 FORWARD ABUTMENT = 60 FT



<b>FOUNDATION PLAN</b> BRIDGE NO. 008 HOLMES COUNTY TRAIL OVER BLACK CREEK	
<b>HOL CO. TR. 5C2</b> PID No. 120806	DESIGN AGENCY <b>WOOLPERT</b> EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225
DESIGNED JYM CHECKED PES	DRAWN JYM REVISED
REVIEWED TML	DATE 06/2025 STRUCTURE FILE NUMBER 00000
4 / 12	100 133



REAR ABUTMENT PLAN



REAR ABUTMENT ELEVATION

LEGEND:

⊕	BEAM NUMBER	Δ	6 SETS OF 1-RA523 & 1-RA524, 5 SPA. @ 1'-0" = 5'-0"	⊕	3 SETS OF 1-RA526 & 1-RA527, 2 SPA. @ 1'-0" = 2'-0"
E.F.	EACH FACE	ΔΔ	5 SETS OF 1-RA523 & 1-RA524, 4 SPA. @ 1'-0" = 4'-0"	⊗	3 SETS OF 1-RA526 & 1-RA528 (SER.), 2 SPA. @ 1'-0" = 2'-0"
F.F.	FRONT FACE	ΔΔΔ	4 SETS OF 1-RA523 & 1-RA524, 3 SPA. @ 1'-0" = 3'-0"	□	6-RA526 & 6-RA533 (SER.), 5 SPA. @ 1'-0" = 5'-0"
○	14" CIP PILE				

NOTES:

- ALL DIMENSIONS MEASURED ALONG CENTERLINE BEARING.
- SEE SHEET 6/12 FOR FORWARD ABUTMENT PLAN AND ELEVATION.
- SEE SHEET 7/12 FOR SECTION A, SECTION B, AND SECTION C.
- REINFORCING STEEL LAP LENGTHS ARE AS FOLLOWS:  
#5 BARS = 2'-5"  
#8 BARS = 3'-9"

DESIGN AGENCY: EASTON OVAL SUITE #101 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225  
**WOOLPERT**  
 DESIGN/CONSTRUCTION/MAINTENANCE

DATE: 06/2025  
 REVIEWED: TML  
 DRAWN: JYM  
 DESIGNED: JYM  
 CHECKED: PES

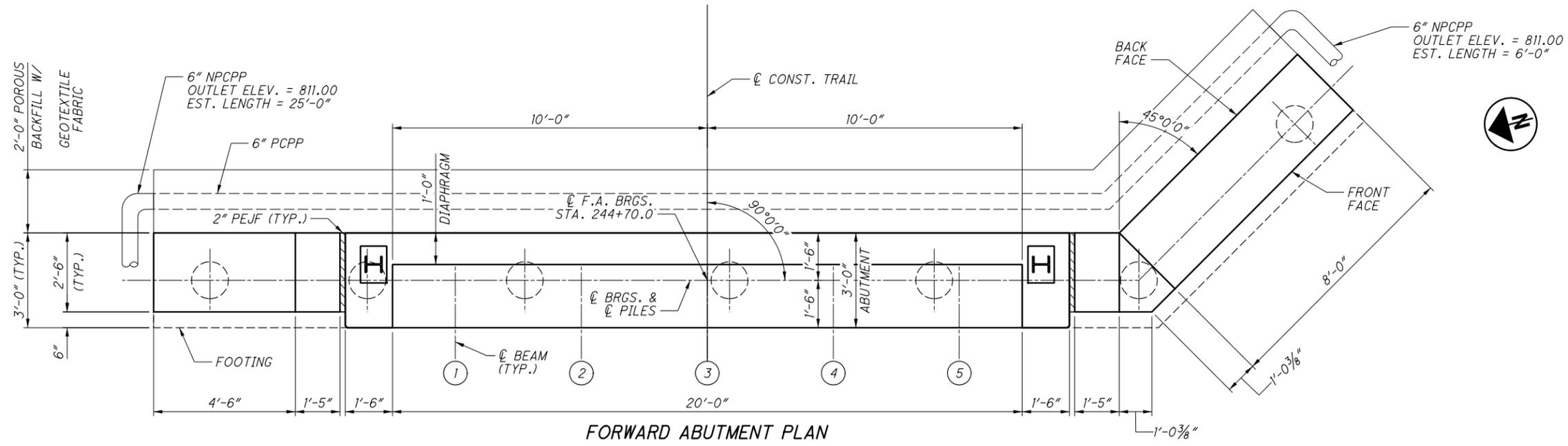
STRUCTURE FILE NUMBER: 00000

BRIDGE NO. B008  
 HOLMES COUNTY TRAIL OVER BLACK CREEK

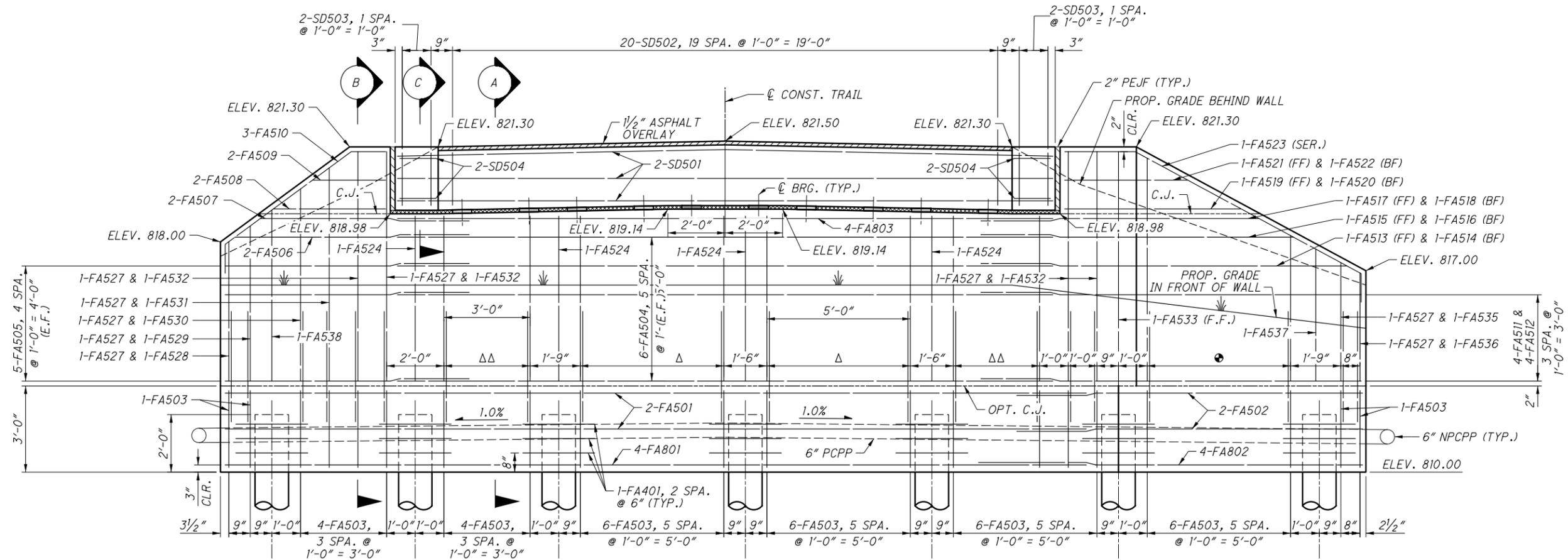
HOL CO. TR. 5C2  
 PID No. 120806

101  
 133

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**FORWARD ABUTMENT PLAN**



**FORWARD ABUTMENT ELEVATION**

**LEGEND:**

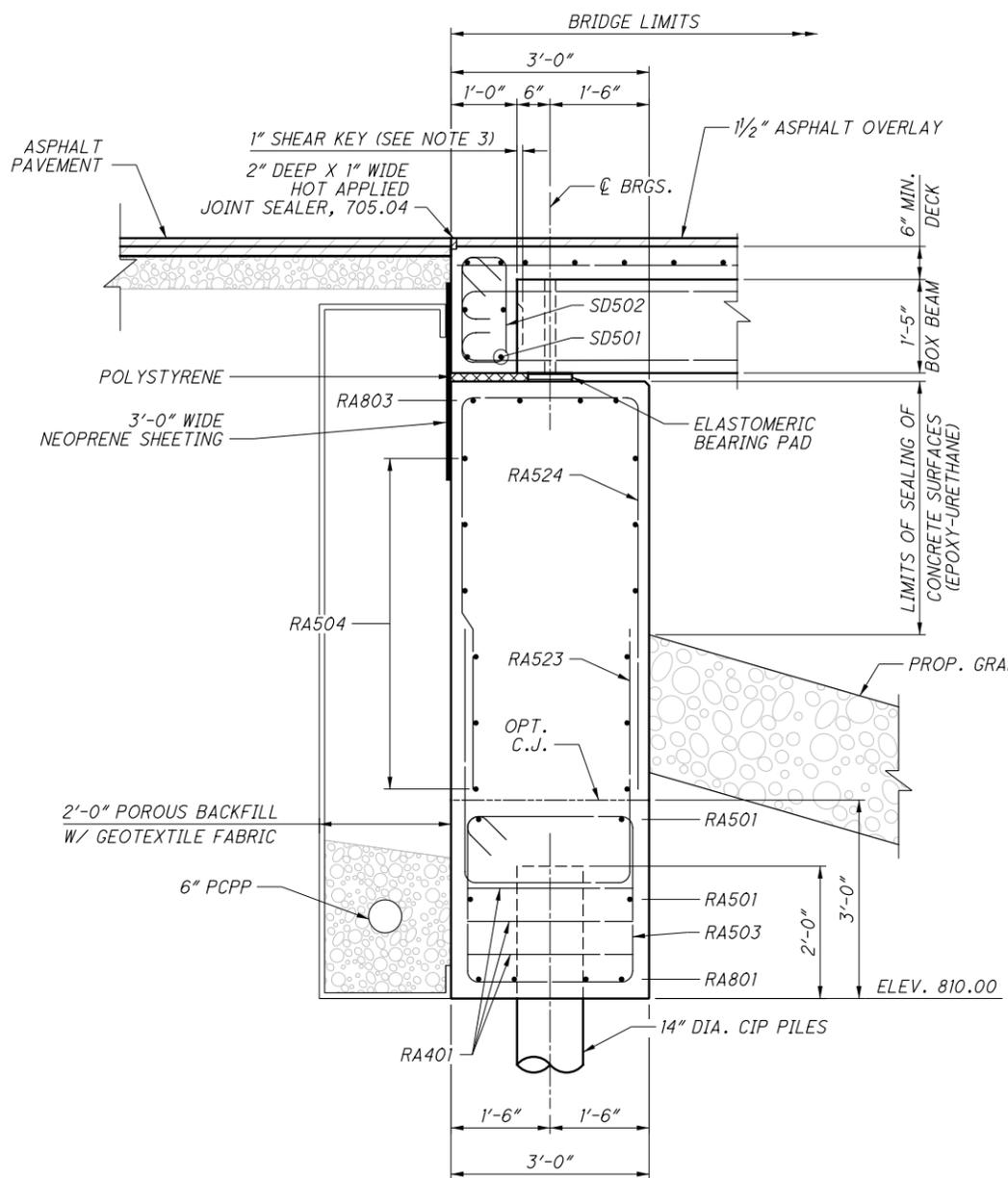
- |      |              |    |   |
|------|--------------|----|---|
| ⊕    | BEAM NUMBER  | Δ  | 6 SETS OF 1-FA525 & 1-FA526,<br>5 SPA. @ 1'-0" = 5'-0"        |
| E.F. | EACH FACE    | ΔΔ | 4 SETS OF 1-FA525 & 1-FA526,<br>3 SPA. @ 1'-0" = 3'-0"        |
| F.F. | FRONT FACE   | ●  | 6 SETS OF 1-FA527 & 1-FA534 (SER.),<br>5 SPA. @ 1'-0" = 5'-0" |
| ○    | 14" CIP PILE |    |   |

**NOTES:**

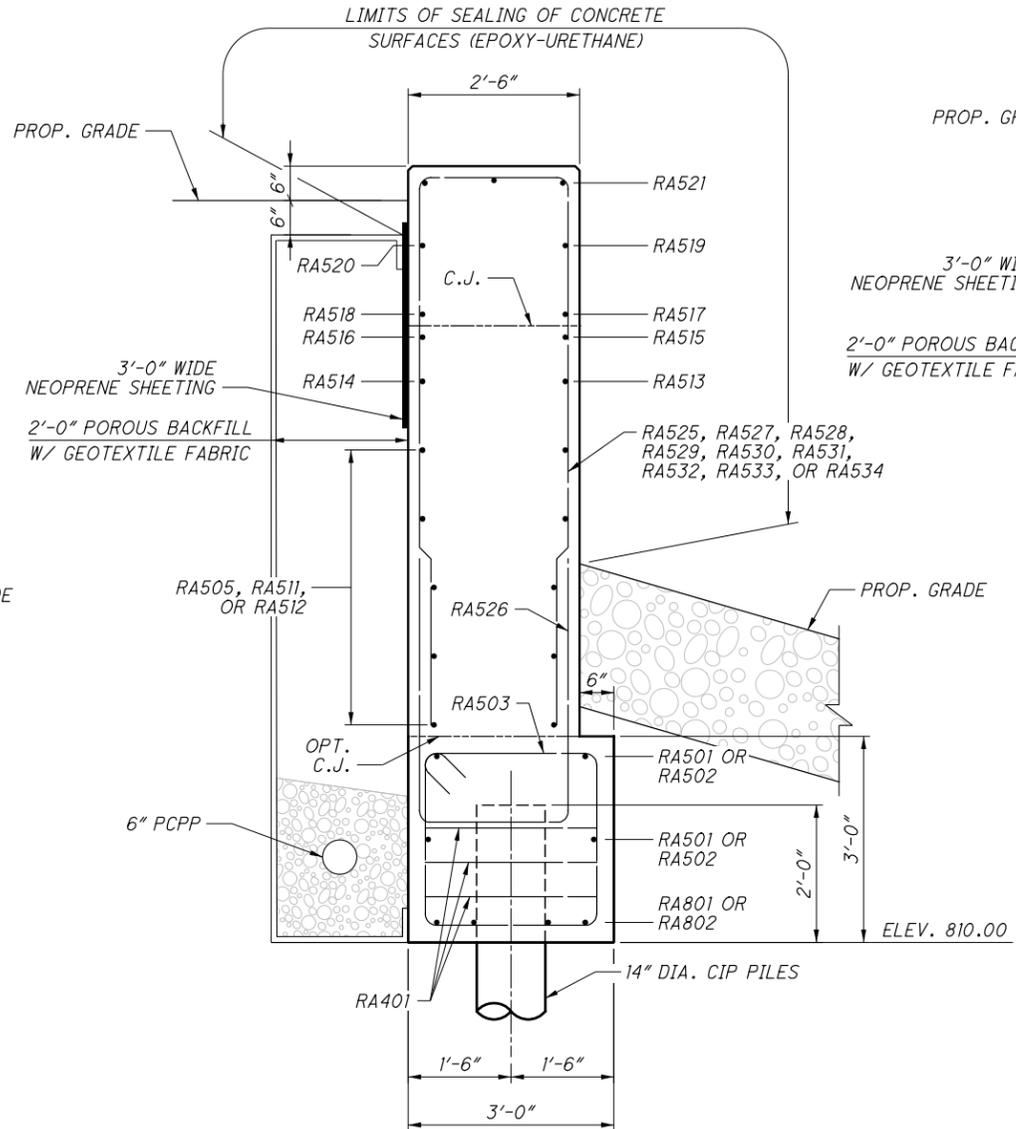
- ALL DIMENSIONS MEASURED ALONG CENTERLINE BEARING.
- SEE SHEET 5/12 FOR REAR ABUTMENT PLAN AND ELEVATION.
- SEE SHEET 7/12 FOR SECTION A, SECTION B, AND SECTION C.
- REINFORCING STEEL LAP LENGTHS ARE AS FOLLOWS:  
#5 BARS = 2'-5"  
#8 BARS = 3'-9"

<b>HOL CO. TR. 5C2</b> PID No. 120806	BRIDGE NO. B008 HOLMES COUNTY TRAIL OVER BLACK CREEK	<b>FORWARD ABUTMENT PLAN AND ELEVATION</b>	DESIGN AGENCY <b>WOOLPERT</b> CIVIL ENGINEERING & SURVEYING	DATE 06/2025 STRUCTURE FILE NUMBER 00000
DESIGNED JYM CHECKED PES	DRAWN JYM REVISED	REVIEWED TML	DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225	DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225

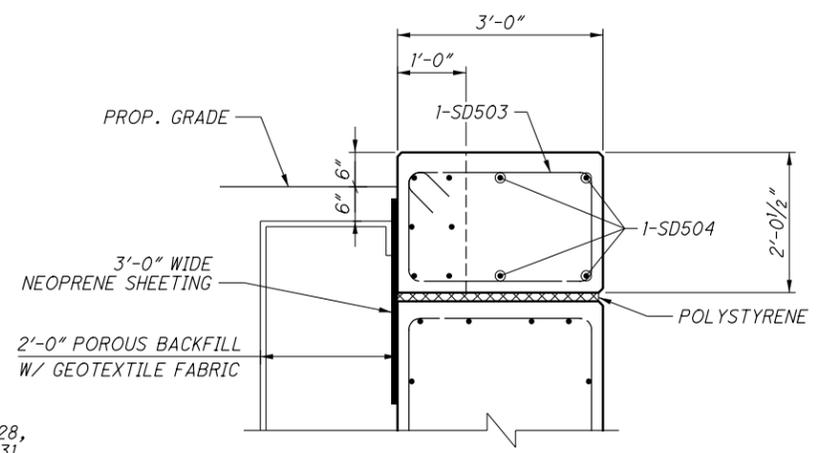
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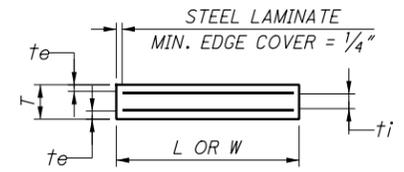
**SECTION A-A**  
(REAR ABUTMENT SHOWN,  
FORWARD ABUTMENT SIMILAR)



**SECTION B-B**  
(REAR ABUTMENT SHOWN,  
FORWARD ABUTMENT SIMILAR)



**SECTION C-C**  
(REAR ABUTMENT SHOWN,  
FORWARD ABUTMENT SIMILAR)



**LEGEND:**

- $t_e$  = EXTERIOR LAYER THICKNESS
- $N_e$  = NUMBER OF EXTERIOR LAYERS
- $t_i$  = INTERIOR LAYER THICKNESS
- $N_i$  = NUMBER OF INTERIOR LAYERS
- DL = DEAD LOAD
- LL = LIVE LOAD

LOCATION	L	W	T	$t_e$	$N_e$	$t_i$	$N_i$	$t_s$ (12 GAGE)	DESIGN LOADS (KIPS)			DESIGN ROTATION (RAD.)	
									DL	LL <sub>max</sub>	LL <sub>min</sub>		SERVICE TOTAL
EXTERIOR	7"	11"	1.409"	0.35"	2	0.5"	1	0.1046"	18.0	5.7	0.0	23.7	0.006199
INTERIOR	7"	11"	1.409"	0.35"	2	0.5"	1	0.1046"	18.0	4.7	0.0	22.7	0.006199

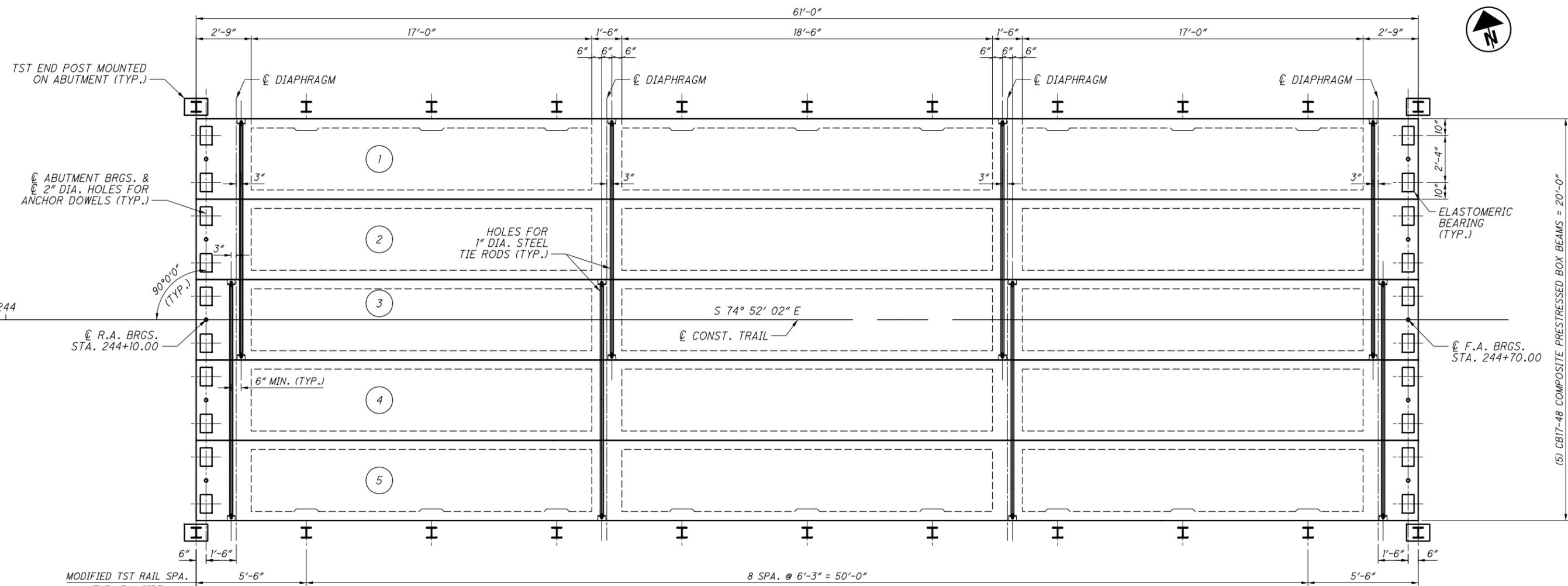
**LAMINATED ELASTOMERIC BEARING**

**NOTES:**

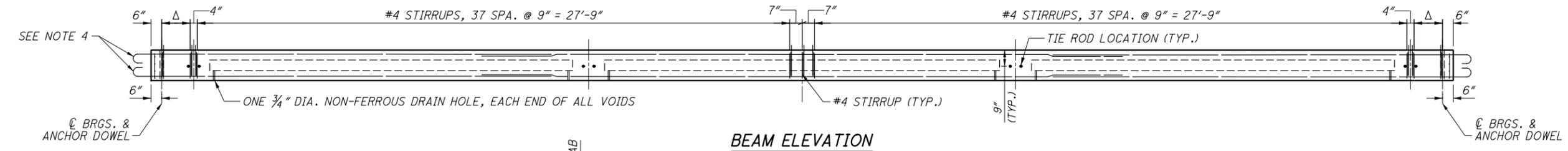
1. SEE SHEET 5/12 FOR REAR ABUTMENT PLAN AND ELEVATION.
2. SEE SHEET 6/12 FOR FORWARD ABUTMENT PLAN AND ELEVATION.
3. PROVIDE A 1" DEEP SHEAR KEY CENTERED IN BEAM END. THE SHEAR KEY HEIGHT SHALL BE ONE-HALF OF THE BOX BEAM HEIGHT AND THE WIDTH SHALL BE 38".
4. PROVIDE 1/2" EXPANDED POLYSTYRENE FILLER ALONG BEAM SEAT.
5. ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG-TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
6. STEEL LAMINATES SHALL HAVE A THICKNESS OF 12-GAGE (0.1046 INCHES).

<b>HOL CO. TR. 5C2</b> PID No. 120806	<b>ABUTMENT AND WINGWALL SECTION DETAILS</b> BRIDGE NO. B008 HOLMES COUNTY TRAIL OVER BLACK CREEK	DESIGN AGENCY <b>WOOLPERT</b> EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225	DATE 06/2025 REVIEWED TML DRAWN JYM CHECKED JYM DESIGNED JYM	STRUCTURE FILE NUMBER 00000
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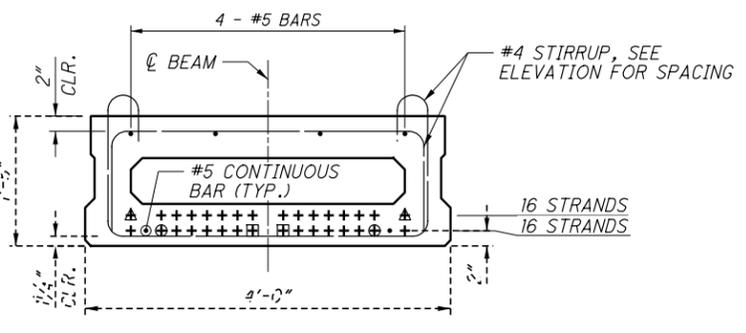
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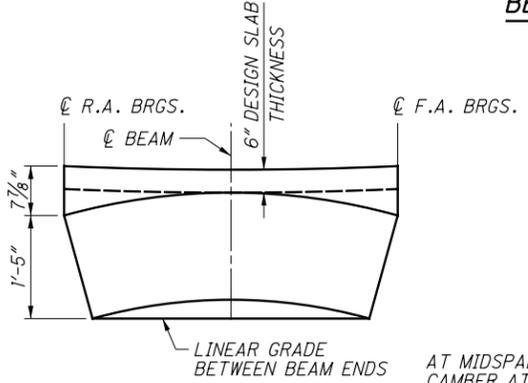
**FRAMING PLAN**



**BEAM ELEVATION**



**BEAM DETAILS**



**CAMBER DIAGRAM**

AT MIDSPAN:  
CAMBER AT DAY 0 = 2"  
CAMBER AT DAY 30 = 3"  
VERTICAL ADJUSTMENT = 0"  
BEAM SEAT ELEVATIONS ASSUME ESTIMATED CAMBER AT DAY 30

**LEGEND:**

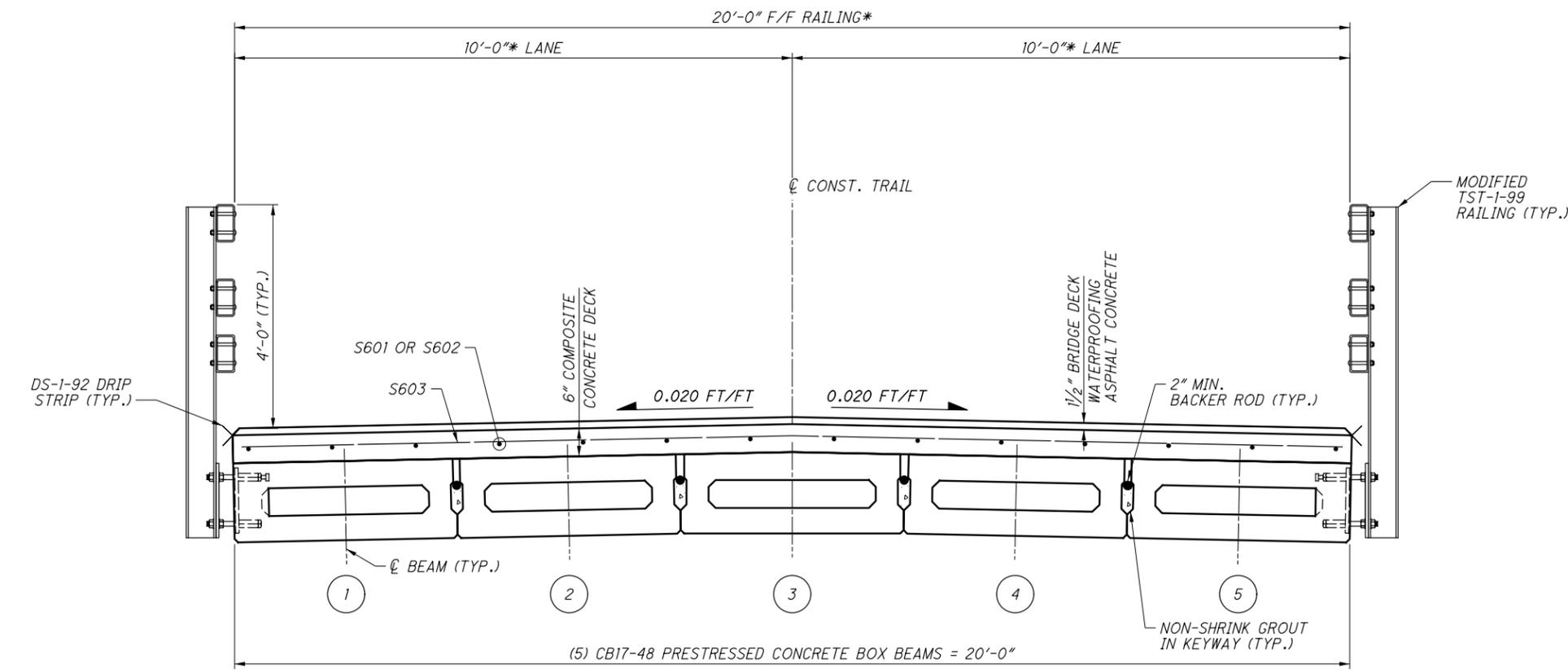
- Δ 4 SPA. @ 4" = 1'-4"
- ⊙ BEAM NUMBER
- MILD REINFORCING STEEL BAR
- + PRESTRESSING STRAND LOCATION, BONDED FULL LENGTH
- ⊕ DEBONDED STRAND, 2.50' EACH END
- ⊕ DEBONDED STRAND, 5.00' EACH END
- ⊕ DEBONDED STRAND, 7.50' EACH END

**NOTES:**

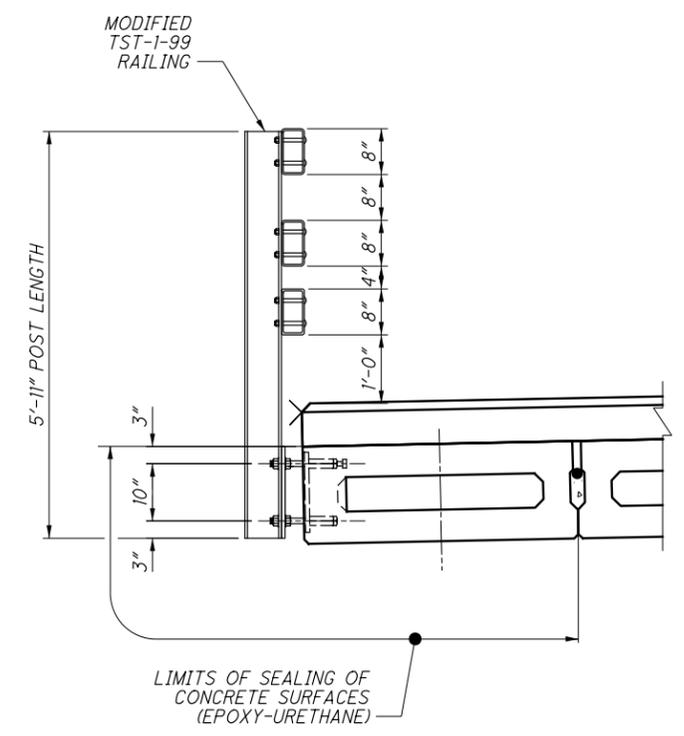
1. SEE ODOT SCD PSBD-1-25 FOR ADDITIONAL PRESTRESSED BOX BEAM DETAILS NOT SHOWN.
2. 2" DIA. ANCHOR DOWELS TO BE FILLED WITH 705.20 NON-SHRINK NON-METALLIC GROUT AT THE ABUTMENTS.
3. THE CALCULATED DEFLECTION DUE TO DEAD LOAD APPLIED AFTER THE BEAMS ARE SET (WEIGHT OF SURFACE COURSE, RAILING, ETC.) IS 1/16".
4. EXTEND TOP & BOTTOM LONGITUDINAL BARS AN EMBEDMENT OF 10" INTO ABUTMENT BACKWALL AND PROVIDE STANDARD 180° HOOK. BARS TO BE EPOXY COATED AND PAID FOR UNDER ITEM 515.
5. PROVIDE 1" DEEP SHEAR KEY CENTERED IN BEAM END. THE SHEAR KEY SHALL BE 8 1/2" TALL AND 38" WIDE.



<p>DESIGN AGENCY: EASTON OVAL                  SUITE 400                  COLUMBUS, OH 43219                  T 614-776-8000                  F 614-776-6225</p> <p><b>WOOLPERT</b>                  DESIGN ENGINEERING</p>	<p>DATE: 06/2025                  REVIEWED: TML                  DRAWN: JYM                  DESIGNED: JYM                  CHECKED: PES</p> <p>STRUCTURE FILE NUMBER: 00000</p>	<p><b>FRAMING PLAN AND DETAILS</b></p> <p>BRIDGE NO. 008                  HOLMES COUNTY TRAIL OVER BLACK CREEK</p> <p><b>HOL CO. TR. 5C2</b>                  PID No. 120806</p> <p>8 / 12</p> <p style="text-align: center;">104 133</p>
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**TRANSVERSE SECTION**  
\* = PLUS FIT-UP



**SEALING DETAIL**

**LEGEND:**

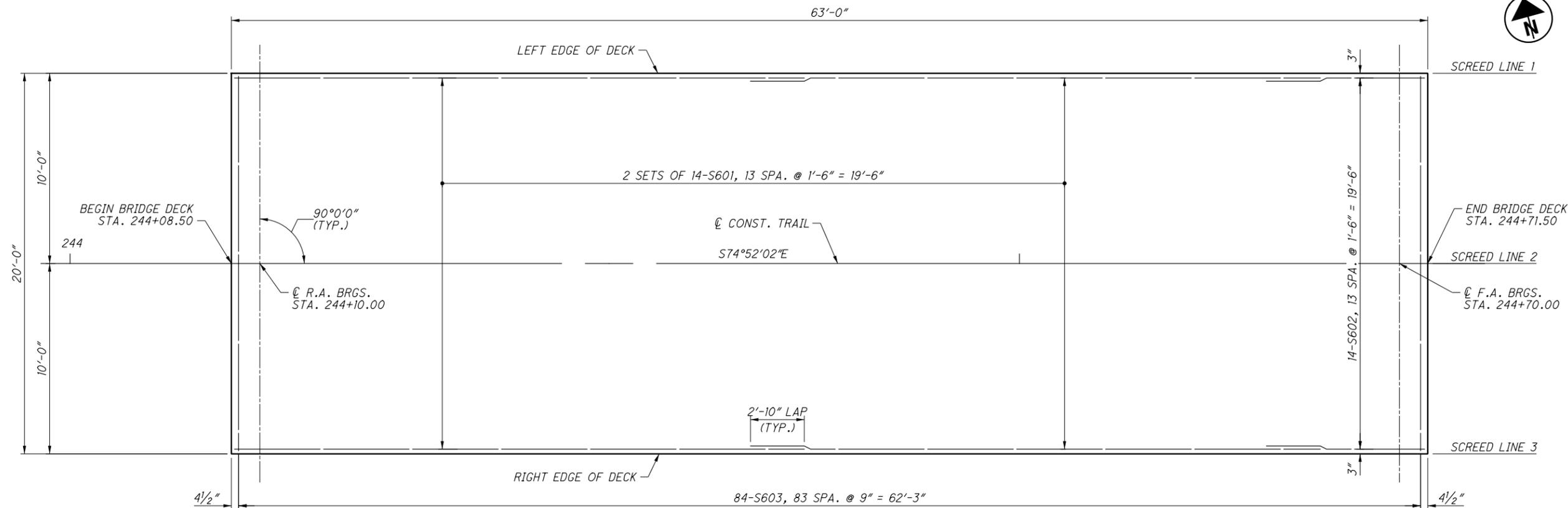
⊙ - BEAM NUMBER

**NOTES:**

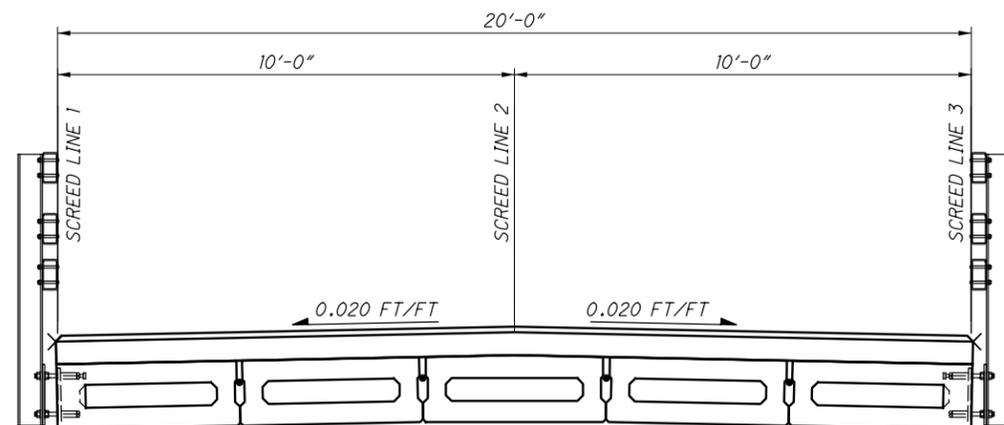
1. SEE SHEET 8/12 FOR ADDITIONAL RAILING DETAILS.
2. SEE ODOT SCD DS-1-92 FOR ADDITIONAL DRIP STRIP DETAILS.

<b>HOL CO. TR. 5C2</b> PID No. 120806	<b>TRANSVERSE SECTION</b> BRIDGE NO. 008 HOLMES COUNTY TRAIL OVER BLACK CREEK		DESIGNED JYM CHECKED PES	DRAWN JYM REVISED	REVIEWED TML STRUCTURE FILE NUMBER 00000	DATE 06/2025	DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-476-8000 F 614-476-6225 <b>WOOLPERT</b> CONSULTING ENGINEERS
	9 / 12	105 133					

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**DECK REINFORCING PLAN**



**TRANSVERSE SECTION**

FINAL DECK SURFACE AND SCREED ELEVATION TABLE						
LOCATION	CL R.A. BRGS.	SPAN 1			CL F.A. BRGS.	
		1/4 SPAN	1/2 SPAN	3/4 SPAN		
LEFT EDGE OF DECK SCREED LINE 1	STATION	244+10.00	244+25.00	244+40.00	244+55.00	244+70.00
	OFFSET (FT, LEFT)	10.00	10.00	10.00	10.00	10.00
	FINAL DECK ELEVATION	821.30	821.30	821.30	821.30	821.30
	SCREED ELEVATION	821.30	821.36	821.39	821.36	821.30
DEAD LOAD DEFLECTIONS	0"	- 3/4"	- 1 1/16"	- 3/4"	0"	
CENTERLINE CONST. TRAIL SCREED LINE 2	STATION	244+10.00	244+25.00	244+40.00	244+55.00	244+70.00
	FINAL DECK ELEVATION	821.50	821.50	821.50	821.50	821.50
	SCREED ELEVATION	821.50	821.56	821.59	821.56	821.50
	DEAD LOAD DEFLECTIONS	0"	- 3/4"	- 1 1/16"	- 3/4"	0"
RIGHT EDGE OF DECK SCREED LINE 3	STATION	244+10.00	244+25.00	244+40.00	244+55.00	244+70.00
	OFFSET (FT, RIGHT)	10.00	10.00	10.00	10.00	10.00
	FINAL DECK ELEVATION	821.30	821.30	821.30	821.30	821.30
	SCREED ELEVATION	821.30	821.36	821.39	821.36	821.30
DEAD LOAD DEFLECTIONS	0"	- 3/4"	- 1 1/16"	- 3/4"	0"	

**NOTES:**

- SEE SHEET 9/12 FOR TRANSVERSE SECTION.
- SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.
- FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.
- STATIONS AND OFFSETS PROVIDED ALONG CENTERLINE CONST. TRAIL.
- DECK SLAB THICKNESS FOR CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK CONCRETE IS MEASURED ACCORDING TO C&MS 511. IN ADDITION TO THE DESIGN SLAB THICKNESS, THE QUANTITY INCLUDES A VARIABLE HAUNCH THICKNESS THAT PROVIDES AN ALLOWANCE FOR BEAM CAMBER.

DESIGN AGENCY  
 EASTON OVAL  
 SUITE #100  
 COLUMBUS, OH 43219  
 T 614-776-8000  
 F 614-776-6225  
**WOOLPERT**  
 DESIGN ENGINEERING

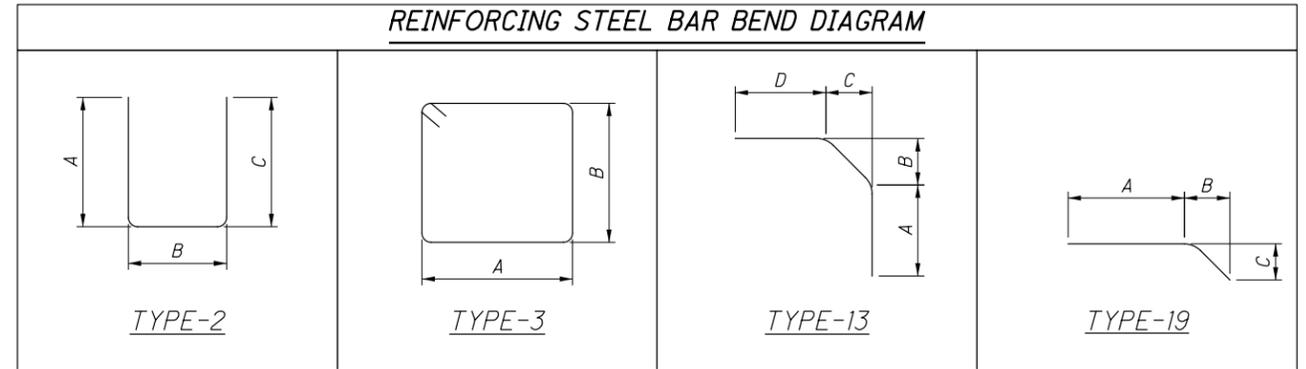
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**DECK REINFORCING PLAN AND FINAL DECK ELEVATIONS**  
 BRIDGE NO. 008  
 HOLMES COUNTY TRAIL OVER BLACK CREEK

**HOL CO. TR. 5C2**  
 PID No. 120806

REAR ABUTMENT												
BAR MARK	MAT'RL TYPE	TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS						
						A	B	C	D	E	R	INC.
RA401	ECSR	21	9'-6"	134	3	2'-6"	2'-0"					
RA501	ECSR	4	30'-0"	126	ST.							
RA502	ECSR	2 SER OF 2	12'-0" TO 13'-10"	54	19	4'-3" TO 5'-2"	5'-6" TO 6'-2"	5'-6" TO 6'-2"				1'-10"
RA503	ECSR	40	10'-7"	442	3	2'-6"	2'-6"					
RA504	ECSR	12	23'-0"	288	ST.							
RA505	ECSR	10	12'-0"	126	ST.							
RA506	ECSR	2	10'-9"	23	ST.							
RA507	ECSR	2	9'-9"	21	ST.							
RA508	ECSR	2	6'-3"	14	ST.							
RA509	ECSR	2	4'-8"	10	ST.							
RA510	ECSR	3	10'-10"	34	13	1'-0"	3'-8"	5'-11"	3'-1"			
RA511	ECSR	5	13'-10"	73	19	5'-2"	6'-2"	6'-2"				
RA512	ECSR	5	12'-0"	63	19	4'-3"	5'-6"	5'-6"				
RA513	ECSR	1	12'-4"	13	19	5'-2"	5'-1"	5'-1"				
RA514	ECSR	1	10'-6"	11	19	4'-3"	4'-5"	4'-5"				
RA515	ECSR	1	10'-11"	12	19	5'-2"	4'-1"	4'-1"				
RA516	ECSR	1	9'-1"	10	19	4'-3"	3'-5"	3'-5"				
RA517	ECSR	1	10'-2"	11	19	5'-2"	3'-7"	3'-7"				
RA518	ECSR	1	8'-4"	9	19	4'-3"	2'-11"	2'-11"				
RA519	ECSR	1	8'-1"	9	19	5'-2"	2'-1"	2'-1"				
RA520	ECSR	1	6'-3"	7	19	4'-3"	1'-5"	1'-5"				
RA521	ECSR	1 SER OF 3	10'-9" TO 12'-6"	37	13	1'-0"	3'-9"	7'-10" TO 8'-9"	1'-3" TO 2'-2"			11"
RA522	ECSR	3	16'-11"	53	3	2'-8"	5'-6"					
RA523	ECSR	22	10'-1"	232	2	3'-10"	2'-8"	3'-10"				
RA524	ECSR	22	13'-5"	308	2	5'-6"	2'-8"	5'-6"				
RA525	ECSR	1	21'-9"	23	3	2'-8"	7'-11"					
RA526	ECSR	18	9'-7"	180	2	3'-10"	2'-2"	3'-10"				
RA527	ECSR	3	17'-9"	56	2	7'-11"	2'-2"	7'-11"				
RA528	ECSR	1 SER OF 3	13'-11" TO 16'-5"	48	2	6'-0" TO 7'-3"	2'-2"	6'-0" TO 7'-3"				1'-3"
RA529	ECSR	1	15'-9"	17	3	2'-2"	5'-5"					
RA530	ECSR	2	11'-9"	25	2	4'-11"	2'-2"	4'-11"				
RA531	ECSR	2	10'-7"	23	2	4'-4"	2'-2"	4'-4"				
RA532	ECSR	1	9'-3"	10	ST.							
RA533	ECSR	1 SER OF 6	12'-7" TO 17'-5"	94	2	5'-4" TO 7'-9"	2'-2"	5'-4" TO 7'-9"				1'-0"
RA534	ECSR	1	10'-11"	12	2	4'-6"	2'-2"	4'-6"				
RA801	ECSR	4	30'-0"	321	ST.							
RA802	ECSR	1 SER OF 4	15'-9" TO 17'-9"	179	19	7'-11" TO 8'-11"	5'-7" TO 6'-3"	5'-7" TO 6'-3"				8"
RA803	ECSR	4	23'-0"	246	ST.							
				TOTAL =	3354	LBS						

DIAPHRAGMS												
BAR MARK	MAT'RL TYPE	NUMBER		TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS				
		REAR	FWD.					A	B	C	D	E
SD501	ECSR	6	6	12	22'-8"	284	ST.					
SD502	ECSR	20	20	40	5'-1"	213	3	8"	1'-7"			
SD503	ECSR	4	4	8	9'-1"	76	3	2'-8"	1'-7"			
SD504	ECSR	8	8	16	1'-2"	20	ST.					
				TOTAL =	593	LBS						



**NOTES:**

1. THE BAR SIZE NUMBER IS SPECIFIED IN THE BAR MARK COLUMN, THE FIRST DIGIT AFTER THE LETTERS WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS AFTER THE LETTERS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, RA501 IS A NO. 5 BAR IN THE REAR ABUTMENT. A LEGEND OF THE DESCRIPTORS IS GIVEN BELOW:

RA REAR ABUTMENT  
 FA FORWARD ABUTMENT  
 SD DIAPHRAGM  
 S SUPERSTRUCTURE

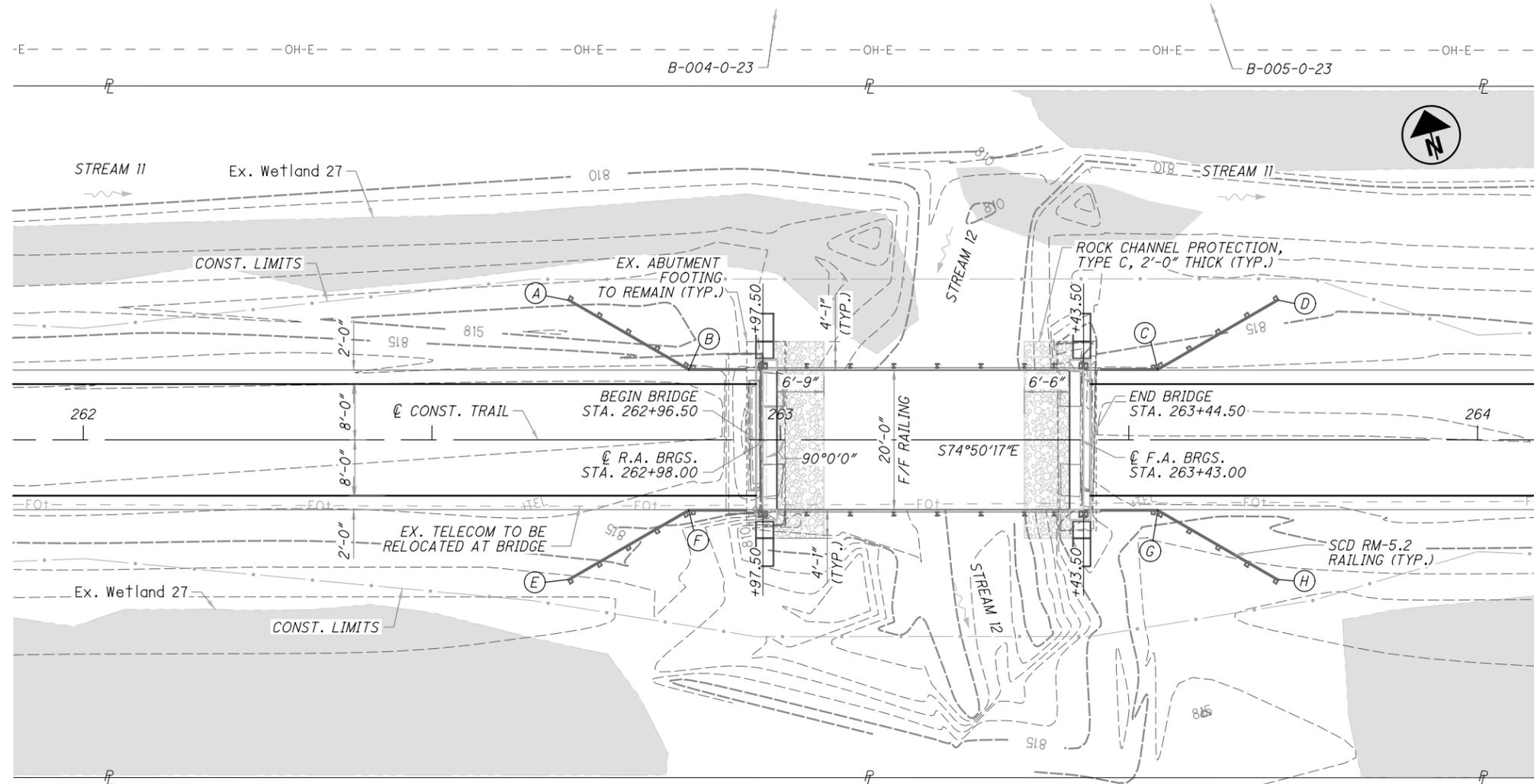
2. BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE NOTED.
3. "ST." INDICATES A STRAIGHT BAR.
4. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
5. MATERIALS LEGEND, ECSR = EPOXY COATED STEEL REINFORCEMENT.

FORWARD ABUTMENT												
BAR MARK	MAT'RL TYPE	TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
				(LBS)		A	B	C	D	E	R	INC.
FA401	ECSR	21	9'-6"	134	3	2'-6"	2'-0"					
FA501	ECSR	4	30'-0"	126	ST.							
FA502	ECSR	SER OF 2	12'-0"	54	19	4'-3"	5'-6"	5'-6"				1'-10"
			TO			TO	TO					
FA503	ECSR	36	10'-7"	398	3	5'-2"	6'-2"	6'-2"				
			TO			TO	TO					
FA504	ECSR	12	23'-0"	288	ST.							
FA505	ECSR	10	8'-6"	89	ST.							
FA506	ECSR	2	8'-0"	17	ST.							
FA507	ECSR	2	7'-2"	15	ST.							
FA508	ECSR	2	3'-10"	8	ST.							
FA509	ECSR	2	2'-6"	6	ST.							
FA510	ECSR	3	7'-4"	23	13	1'-0"	3'-2"	4'-4"	1'-2"			
FA511	ECSR	4	13'-10"	58	19	5'-2"	6'-2"	6'-2"				
FA512	ECSR	4	12'-0"	51	19	4'-3"	5'-6"	5'-6"				
FA513	ECSR	1	13'-5"	14	19	5'-2"	5'-10"	5'-10"				
FA514	ECSR	1	11'-6"	12	19	4'-3"	5'-2"	5'-2"				
FA515	ECSR	1	11'-6"	12	19	5'-2"	4'-6"	4'-6"				
FA516	ECSR	1	9'-9"	11	19	4'-3"	3'-11"	3'-11"				
FA517	ECSR	1	10'-4"	11	19	5'-2"	3'-8"	3'-8"				
FA518	ECSR	1	8'-6"	9	19	4'-3"	3'-0"	3'-0"				
FA519	ECSR	1	9'-9"	11	19	5'-2"	3'-3"	3'-3"				
FA520	ECSR	1	7'-10"	9	19	4'-3"	2'-7"	2'-7"				
FA521	ECSR	1	7'-10"	9	19	5'-2"	1'-11"	1'-11"				
FA522	ECSR	1	6'-0"	7	19	4'-3"	1'-3"	1'-3"				
FA523	ECSR	SER OF 3	10'-11"	37	13	1'-0"	4'-2"	7'-10"	1'-3"			11"
			TO			TO	8'-9"	2'-2"				
FA524	ECSR	4	16'-11"	71	3	2'-8"	5'-6"					
FA525	ECSR	20	10'-1"	211	2	3'-10"	2'-8"	3'-10"				
FA526	ECSR	20	13'-5"	280	2	5'-6"	2'-8"	5'-6"				
FA527	ECSR	16	9'-7"	160	2	3'-10"	2'-2"	3'-10"				
FA528	ECSR	1	11'-3"	12	2	4'-8"	2'-2"	4'-8"				
FA529	ECSR	1	12'-7"	14	2	5'-4"	2'-2"	5'-4"				
FA530	ECSR	1	15'-3"	16	2	6'-8"	2'-2"	6'-8"				
FA531	ECSR	1	16'-7"	18	2	7'-4"	2'-2"	7'-4"				
FA532	ECSR	4	17'-9"	75	2	7'-11"	2'-2"	7'-11"				
FA533	ECSR	1	7'-11"	9	ST.							
FA534	ECSR	SER OF 6	11'-11"	92	2	5'-0"	2'-2"	5'-0"				1'-1"
			TO			TO	7'-8"	7'-8"				
FA535	ECSR	1	9'-11"	11	2	4'-0"	2'-2"	4'-0"				
FA536	ECSR	1	9'-3"	10	2	3'-8"	2'-2"	3'-8"				
FA537	ECSR	1	14'-1"	15	3	4'-7"	2'-2"					
FA538	ECSR	1	16'-9"	18	3	5'-11"	2'-2"					
FA801	ECSR	4	30'-0"	321	ST.							
FA802	ECSR	SER OF 4	12'-1"	140	19	4'-4"	5'-6"	5'-6"				8"
			TO			TO	TO					
FA803	ECSR	4	14'-0"	246	ST.	5'-4"	6'-2"	6'-2"				
			23'-0"									
TOTAL =				3128	LBS							

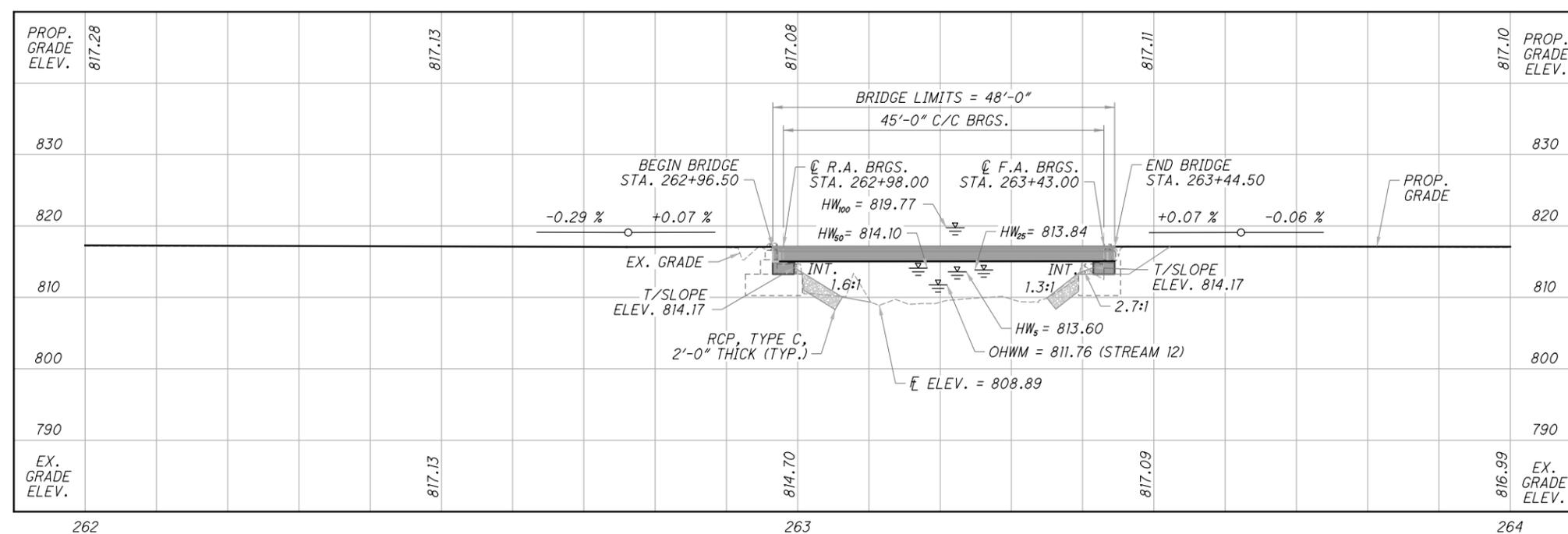
SUPERSTRUCTURE												
BAR MARK	MAT'RL TYPE	TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
				(LBS)		A	B	C	D	E	R	INC.
S601	ECSR	28	30'-0"	1262	ST.							
S602	ECSR	14	8'-4"	176	ST.							
S603	ECSR	84	19'-8"	2482	ST.							
TOTAL =				3920	LBS							

<b>HOL CO. TR. 5C2</b> PID No. 120806	<b>REINFORCING STEEL LIST</b> BRIDGE NO. 008 HOLMES COUNTY TRAIL OVER BLACK CREEK	DESIGNED JYM CHECKED PES	DRAWN JYM REVISED	REVIEWED TML STRUCTURE FILE NUMBER 00000	DATE 06/2025	DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-5225  WOOLPERT DESIGN CONSULTING ENGINEERS
		12 / 12 108 / 133				

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**PLAN**



**PROFILE (ALONG C/C CONST. TRAIL)**

**BENCHMARK DATA**

CP-25 STA. 266+61.96, ELEV. 816.66, OFFSET 0.4' LT.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 3/133

**NOTES**

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

**LEGEND**

- ◆ BORING LOCATION
- ▨ ROCK CHANNEL PROTECTION, TYPE C, 2'-0" THICK

**RM-5.2 RAILING STATIONS**

- (A) STA. 262+69.51 OFFSET 20.0' LT.
- (B) STA. 262+86.83 OFFSET 10.0' LT.
- (C) STA. 263+54.17 OFFSET 10.0' LT.
- (D) STA. 263+71.49 OFFSET 20.0' LT.
- (E) STA. 262+69.51 OFFSET 20.0' RT.
- (F) STA. 262+86.83 OFFSET 10.0' RT.
- (G) STA. 263+54.17 OFFSET 10.0' RT.
- (H) STA. 263+71.49 OFFSET 20.0' RT.

**HYDRAULIC DATA**

DRAINAGE AREA = 0.40 SQ. MILES  
 Q (5) = 136 CFS V (5) = 1.75 FT/S HYDRAULIC DESIGN  
 Q (25) = 231 CFS V (25) = 2.75 FT/S SCOUR DESIGN  
 Q (50) = 280 CFS V (50) = 3.04 FT/S SCOUR CHECK  
 Q (100) = 335 CFS V (100) = 0.31 FT/S BRIDGE CHECK  
 STRUCTURE CLEARS THE 5 YEAR DESIGN HW BY 1.43 FEET.

**EXISTING STRUCTURE**

DISPOSITION: NO SUPERSTRUCTURE; REMOVE UNREINFORCED CONCRETE PEDESTALS. BACKWALL AND WINGWALLS TO REMAIN ON TOP OF ASHLAR MASONRY FOOTING

**PROPOSED STRUCTURE**

TYPE: SINGLE SPAN COMPOSITE PRESTRESSED CONCRETE BOX BEAM ON NEW SEMI-INTEGRAL ABUTMENTS ON EXISTING MASONRY SPREAD FOOTINGS

SPANS: 45'-0" C/C BRG.  
 ROADWAY: 20'-0" F/F TST RAILING  
 LOADING: H15 TRUCK OR 90 PSF PEDESTRIAN LOADING  
 SKEW: NONE  
 CURRENT WEARING SURFACE: 1/2" CONCRETE ASPHALT  
 FUTURE WEARING SURFACE: 0.03 KSF  
 APPROACH SLABS: NONE  
 ALIGNMENT: TANGENT  
 CROWN: 0.02 FT/FT

COORDINATES: LATITUDE 40°30'23.25"N  
 LONGITUDE 82°01'4.04"W

DESIGN AGENCY: EASTON OVAL SUITE 400 COLUMBUS, OH 43219  
 T 614-776-8000 F 614-776-8225  
**WOOLPERT**  
 DESIGN CONSULTANTS INCORPORATED  
 DATE: 06/2025  
 REVIEWED: TML  
 DRAWN: JYM  
 DESIGNED: JYM  
 CHECKED: PES  
 HOLMES COUNTY  
 STA. 262+96.50  
 STA. 263+44.50  
 BRIDGE NO. 009  
 HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 12)  
**HOL CO. TR. 5C2**  
 PID No. 120806  
 1/9  
 109  
 133

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**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:  
 DS-1-92 REVISED 7/15/2022  
 PSBD-1-25 REVISED 7/18/2025  
 TST-1-99 REVISED 1/15/2021

**DESIGN SPECIFICATIONS:**

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

**OPERATIONAL IMPORTANCE:**

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

**DESIGN LOADING:**

DESIGN LOADING INCLUDES:  
 0.090 KSF PEDESTRIAN LIVE LOAD OR  
 NON-CONCURRENT H15-44 (TRUCK ONLY)  
 FUTURE WEARING SURFACE OF 0.03 KSF  
 1/2" CONCRETE ASPHALT OVERLAY

**DESIGN DATA:**

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)  
 CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)  
 EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60 KSI (DECK, DIAPHRAGM, ABUTMENT)

CONCRETE FOR PRESTRESSED BEAMS:  
 COMPRESSIVE STRENGTH (FINAL) - 7.0 KSI  
 COMPRESSIVE STRENGTH (RELEASE) - 5.0 KSI  
 PRESTRESSING STRAND:  
 AREA = 0.167 SQ. IN.  
 ULTIMATE STRENGTH = 270 KSI  
 INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

**DECK PROTECTION METHOD:**

EPOXY COATED REINFORCING STEEL  
 2 1/2" CONCRETE COVER  
 STEEL DRIP STRIP

**MONOLITHIC WEARING SURFACE:**

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

**EXISTING STRUCTURE VERIFICATION:**

DETAILS AND DIMENSIONS ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&S SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**ABUTMENT DIAPHRAGM CONCRETE:**

DO NOT PLACE THE ABUTMENT CONCRETE ABOVE THE BRIDGE SEAT CONSTRUCTION UNTIL THE PRESTRESSED BOX BEAMS HAVE BEEN ERECTED.

**BEAM CAMBER:**

THE BEAM SEAT ELEVATIONS ASSUME ESTIMATED CAMBER AT DAY 30. THE ESTIMATED QUANTITY OF DECK CONCRETE IS MEASURED ACCORDING TO C&S 511. IN ADDITION TO THE DESIGN SLAB THICKNESS, THE QUANTITY INCLUDES A VARIABLE HAUNCH THICKNESS THAT PROVIDES AN ALLOWANCE FOR BEAM CAMBER.

**DEMOLITION DEBRIS:**

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:**

THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE EXISTING STRUCTURE FOR BRIDGE NO. 009. REMOVE EXISTING SUPERSTRUCTURE IN ITS ENTIRETY. REMOVE EXISTING ABUTMENTS AND WINGWALLS TO PROPOSED BEAM SEAT ELEVATIONS AS SHOWN IN REMOVAL DETAILS BELOW. REMOVE CONCRETE PEDESTALS IN ITS ENTIRETY.

REMOVE AFOREMENTIONED PORTIONS OF EXISTING STRUCTURE WITH SUFFICIENT CARE AS TO AVOID DAMAGE TO THE REMAINING PORTIONS OF THE STRUCTURE. IN CASE OF DAMAGE TO EXISTING STRUCTURE, REPAIR OR REPLACE THE STRUCTURE AT NO EXPENSE TO THE DEPARTMENT.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCEMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS AS SPECIFIED. PRIOR TO CONCRETE PLACEMENT, ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST, OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT CLEAN FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. THE DEPARTMENT WILL NOT PERMIT HYDRAULIC HOE-RAM TYPE HAMMERS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18-IN LIMIT, THE CONTRACTOR MAY USE THE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN (CONT'D):**

THE CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER, GEOTECHNICAL TESTING REPRESENTATIVE, OR OTHER QUALIFIED INDIVIDUAL WHO HAS COMPLETED THE ODOT SOIL AND ROCK CLASSIFICATION COURSE TO INSPECT THE FOUNDATION BEARING MATERIAL AFTER EXCAVATION AND PRIOR TO CONSTRUCTION OF THE NEW FOOTINGS. PERFORM FOUR TOTAL DYNAMIC CONE PENETROMETER (DCP) TESTS, ONE AT EACH END OF EACH ABUTMENT TO CONFIRM BEARING RESISTANCES OF THE SUBSURFACE MATERIAL. IF BEARING RESISTANCES BELOW THE DESIGN SERVICE VALUE IS ENCOUNTERED, CONTACT THE ENGINEER FOR DIRECTION PRIOR TO PROCEEDING WITH THE FOUNDATION WORK.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

**ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN:**

PRIOR TO DRILLING DOWEL HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE EACH CONTRACT PRICE FOR ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

**ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):**

SEAL ALL CONCRETE SURFACES INCLUDING ABUTMENTS, WINGWALLS, THE OUTSIDE FASCIAS OF THE DECK AND EXTERIOR BEAMS, AND THE COMPLETE UNDERSIDE OF THE EXTERIOR BEAMS USING EPOXY-URETHANE SEALER. THE FINAL COLOR SHALL BE FEDERAL COLOR STANDARD NO. 17778, PER THE CMS.

**FOUNDATION BEARING RESISTANCE:**

FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 1.0 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 1.0 KIPS PER SQUARE FOOT.

**ITEM 517 - RAILING (TWIN STEEL TUBE), AS PER PLAN:**

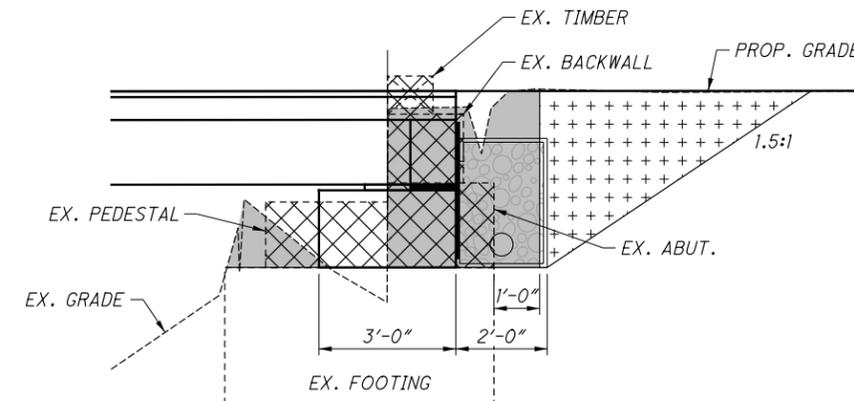
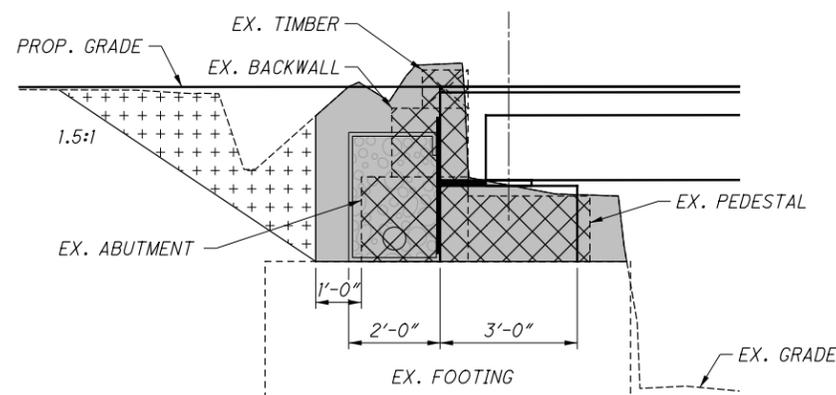
THE TST-1-99 RAILING SHALL BE MODIFIED WITH AN EXTENDED POST AND AN ADDITIONAL STEEL TUBE SIDE RAIL TO PROVIDE A MINIMUM 4-FT HEIGHT FROM TOP OF RAIL TO TOP OF DECK. PAYMENT FOR THIS ITEM 517 - RAILING (TWIN STEEL TUBE), AS PER PLAN SHALL INCLUDE TIMBER RAILS, STEEL POSTS, STEEL TUBING SIDE RAILS, AND ALL CONNECTION ELEMENTS INCLUDING BOLTS, NUTS, AND WASHERS.

**ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN:**

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PLACED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

**ABBREVIATIONS:**

ABUT.	ABUTMENT
BRGS.	BEARINGS
C/C	CENTER-TO-CENTER
CL	CENTERLINE
CONST.	CONSTRUCTION
DIA.	DIAMETER
ELEV.	ELEVATION
EX.	EXISTING
F.A.	FORWARD ABUTMENT
F/F	FACE-TO-FACE
NPCPP	NON-PERFORATED CORRUGATED PLASTIC PIPE
PCPP	PERFORATED CORRUGATED PLASTIC PIPE
PROP.	PROPOSED
R.A.	REAR ABUTMENT
RCP	ROCK CHANNEL PROTECTION
T/	TOP OF
TYP.	TYPICAL
W/	WITH



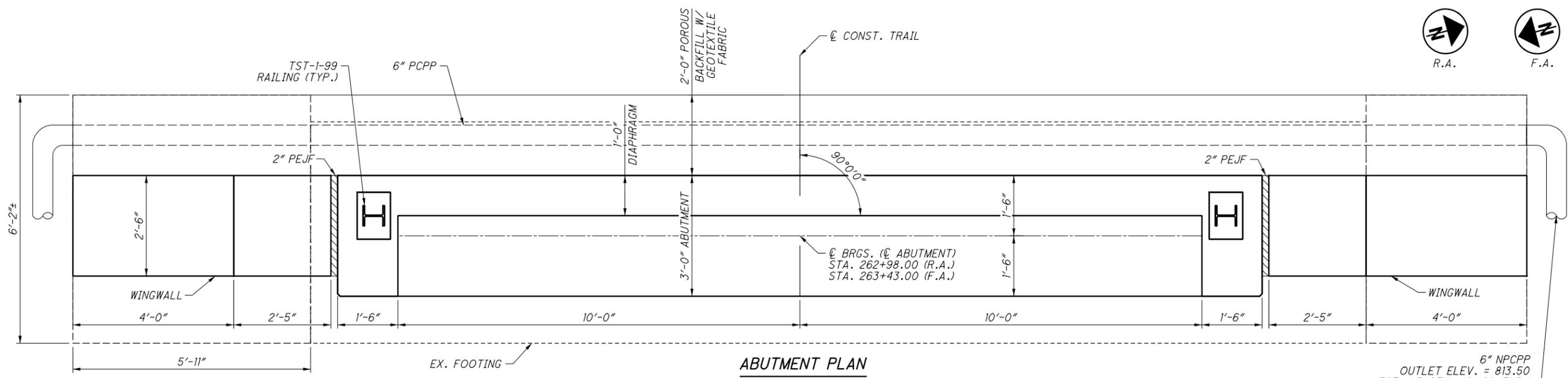
REMOVAL DETAILS

- LIMITS OF UNCLASSIFIED EXCAVATION
- ITEM 202 - PORTION OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
- ITEM 203 - EXCAVATION
- ITEM 518 - POROUS BACKFILL W/ GEOTEXTILE FABRIC

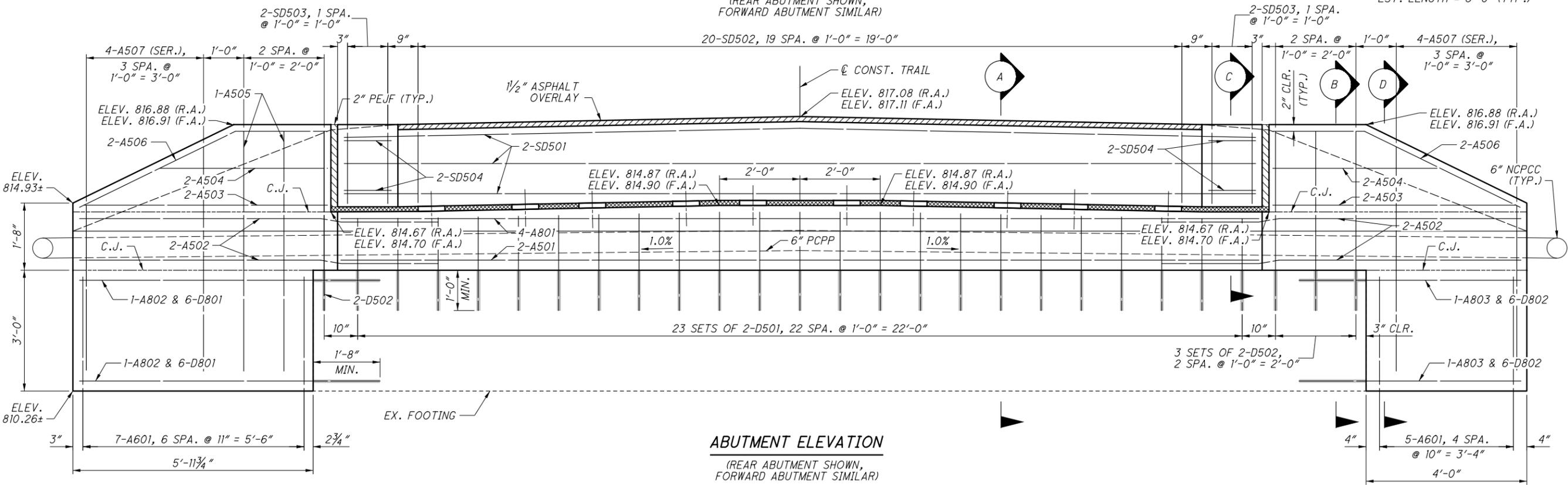
DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-5225 	DATE 06/2025	REVIEWED TML	STRUCTURE FILE NUMBER 00000	DRAWN JYM	CHECKED JYM	DESIGNED JYM	PERS
STRUCTURE GENERAL NOTES BRIDGE NO. B009 HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 12)							
HOL CO. TR. 5C2 PID No. 120806							
2 / 9							
110 133							

BRIDGE B9 ESTIMATED QUANTITIES					DATE: 6/12/2025
ITEM	EXT	QUANTITY	UNIT	DESCRIPTION	SHEET
202	11203	1	LS	PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN	2/9
203	10000	29	CY	EXCAVATION	
203	20000	35	CY	EMBANKMENT	
503	11100	1	LS	COFFERDAMS AND EXCAVATION BRACING	
503	21100	47	CY	UNCLASSIFIED EXCAVATION	
509	10000	6823	LB	EPOXY COATED STEEL REINFORCEMENT	
510	10001	156	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	2/9
511	31610	22	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
511	43510	29	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	
512	10100	79	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
515	12030	5	EA	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48, 46'-0"	
516	13900	21	SF	2" PREFORMED EXPANSION JOINT FILLER	
516	31010	40	FT	2" DEEP JOINT SEALER	
516	43101	20	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN, 1.5" THICK	5/9
517	70001	102	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	2/9
518	21200	15	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
SPECIAL	518E22300	107	FT	STEEL DRIP STRIP	
518	40000	73	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	24	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
519	11101	20	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	2/9
601	32200	36	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
856	10000	5	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE	

CALC BY: JYM  
CHECK BY: SL



**ABUTMENT PLAN**  
 (REAR ABUTMENT SHOWN,  
 FORWARD ABUTMENT SIMILAR)

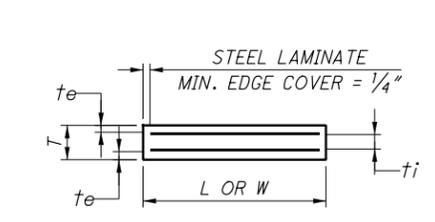
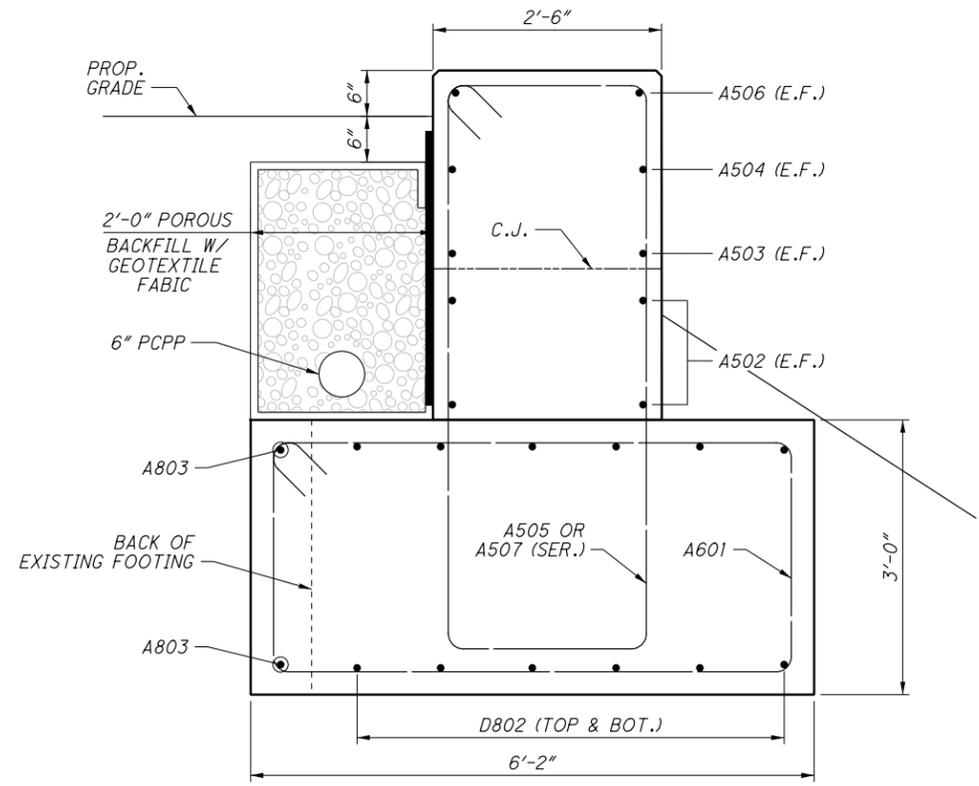
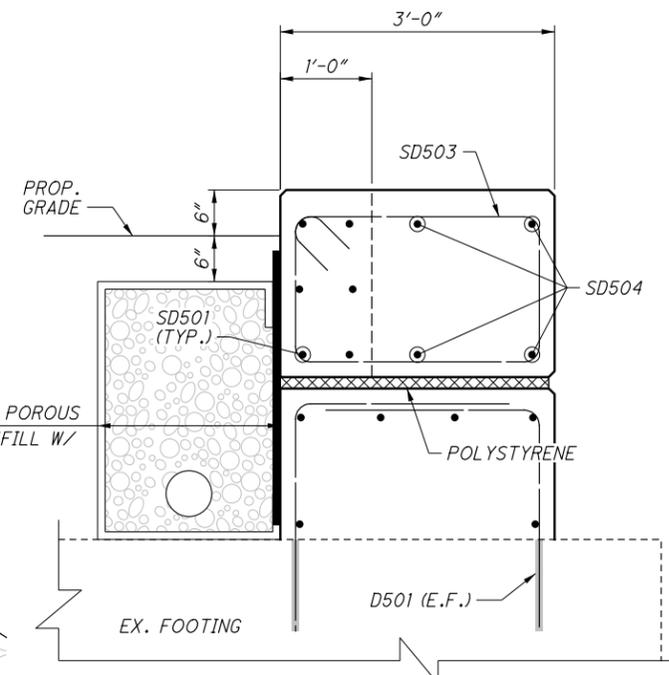
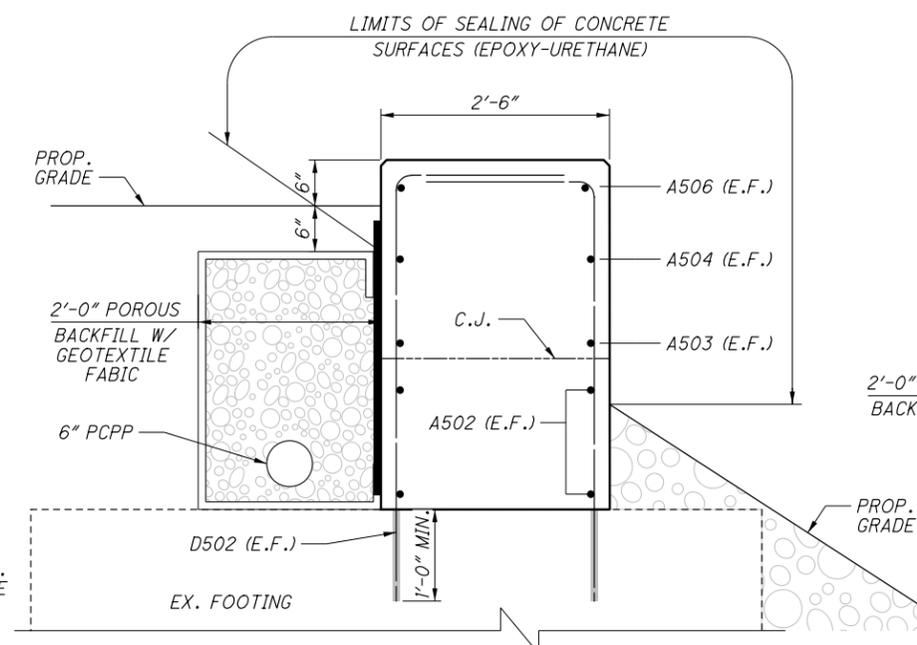
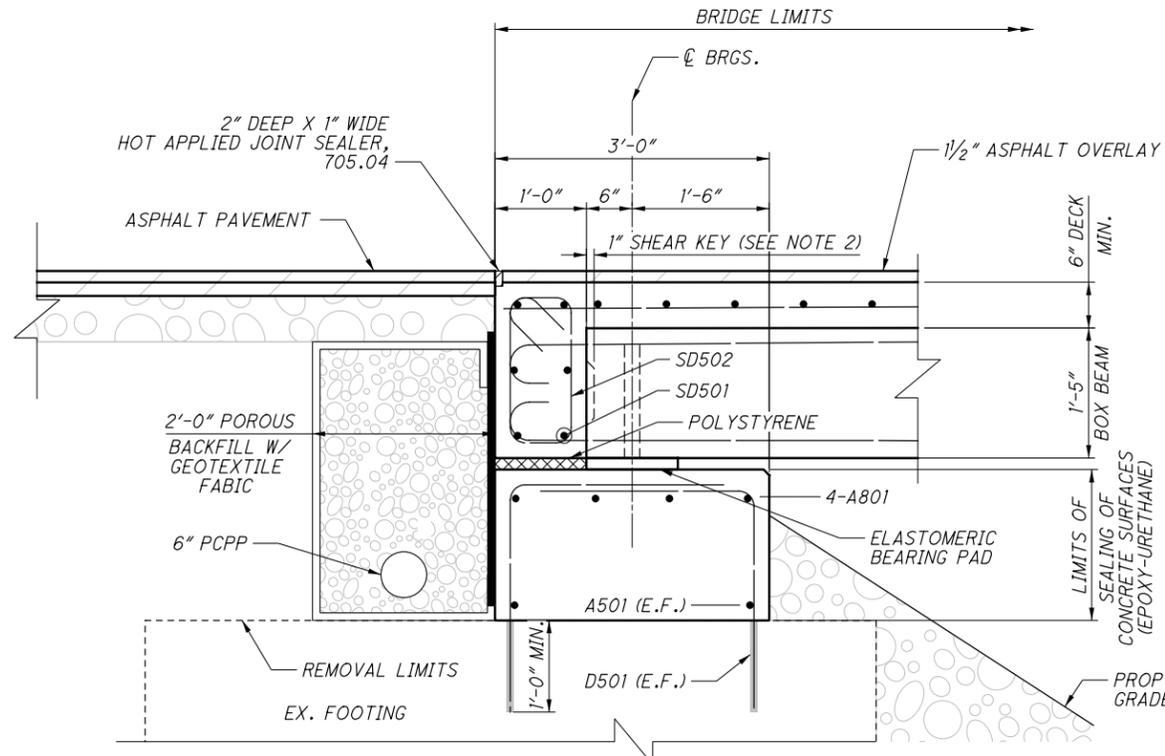


**ABUTMENT ELEVATION**  
 (REAR ABUTMENT SHOWN,  
 FORWARD ABUTMENT SIMILAR)

**LEGEND:**  
 DOWEL BAR

- NOTES:**
- ALL DIMENSIONS MEASURED ALONG CENTERLINE BEARING.
  - SEE SHEET 5/9 FOR SECTION A, SECTION B, AND SECTION C.
  - REINFORCING STEEL LAP LENGTHS ARE AS FOLLOWS:  
 #5 BARS = 2'-5".

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**LEGEND:**  
 DOWEL BAR  
 $t_e$  = EXTERIOR LAYER THICKNESS  
 $N_e$  = NUMBER OF EXTERIOR LAYERS  
 $t_i$  = INTERIOR LAYER THICKNESS  
 $N_i$  = NUMBER OF INTERIOR LAYERS  
 $DL$  = DEAD LOAD  
 $LL$  = LIVE LOAD

LOCATION	L	W	T	$t_e$	$N_e$	$t_i$	$N_i$	$t_s$ (12 GAGE)	DESIGN LOADS (KIPS)			DESIGN ROTATION (RAD.)	
									DL	LL <sub>max</sub>	LL <sub>min</sub>		SERVICE TOTAL
EXTERIOR	7"	11"	1.409"	0.35"	2	0.5"	1	0.1046"	13.5	5.9	0.0	19.4	0.005376
INTERIOR	7"	11"	1.409"	0.35"	2	0.5"	1	0.1046"	13.5	4.9	0.0	18.4	0.005376

**LAMINATED ELASTOMERIC BEARING**

- NOTES:**
- SEE SHEET 4/9 FOR ABUTMENT PLAN AND ELEVATION.
  - PROVIDE A 1" DEEP SHEAR KEY CENTERED IN BEAM END. THE SHEAR KEY HEIGHT SHALL BE ONE-HALF OF THE BOX BEAM HEIGHT AND THE WIDTH SHALL BE 38".
  - PROVIDE 1/2" EXPANDED POLYSTYRENE FILLER ALONG BEAM SEAT.
  - ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG-TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
  - STEEL LAMINATES SHALL HAVE A THICKNESS OF 12-GAGE (0.1046 INCHES).

DESIGN AGENCY: EASTON OVAL SUITE 400 COLUMBUS, OH 43219  
**WOOLPERT**  
 DESIGN ENGINEERING & PLANNING

DATE: 06/2025  
 TML  
 STRUCTURE FILE NUMBER: 00000

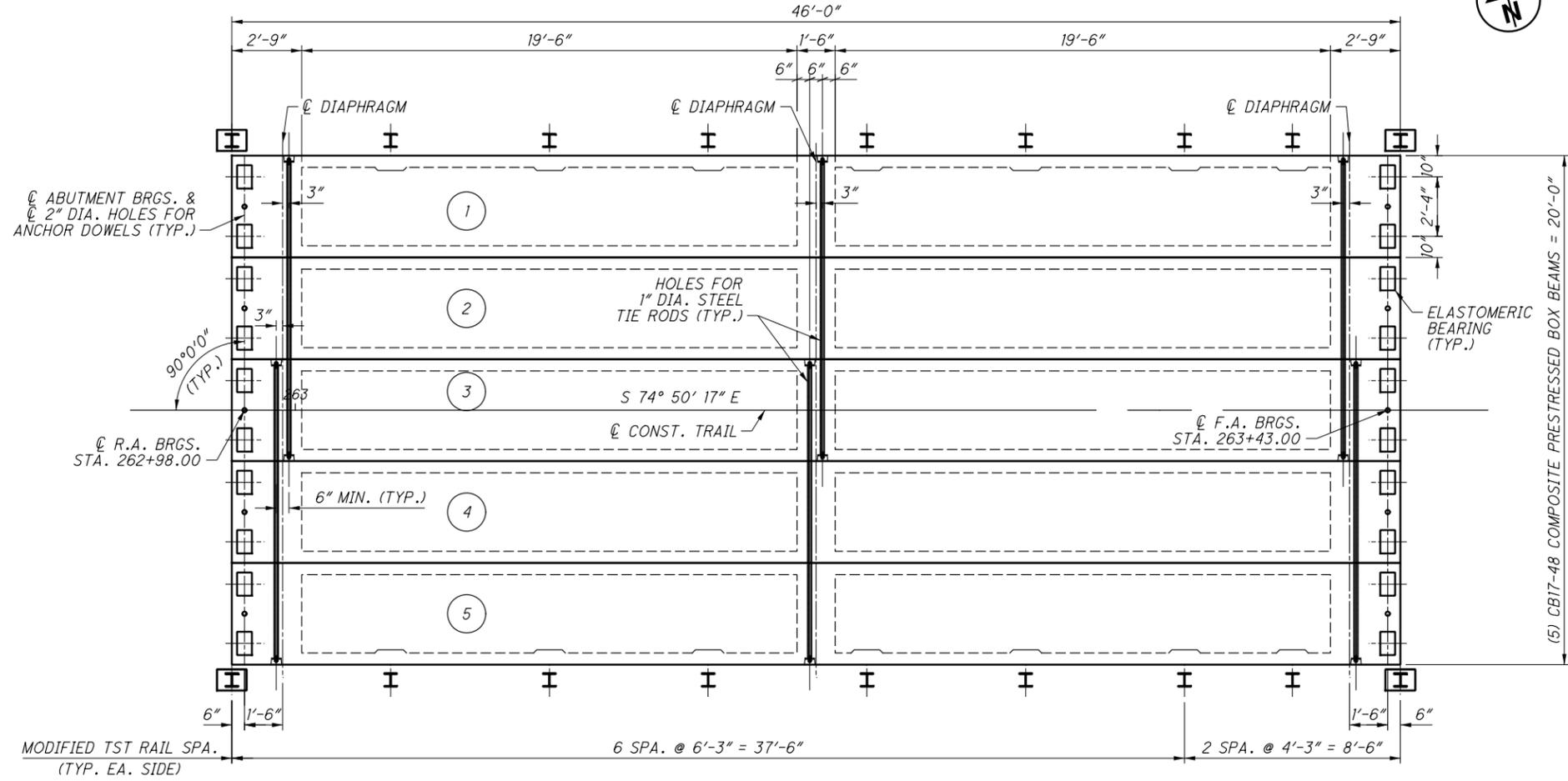
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 CHECKED: PES  
 DRAWN: SL  
 REVISED:  
 REVIEWED: TML  
 FILE NUMBER: 00000

ABUTMENT SECTION  
 BRIDGE NO. 009  
 HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 12)

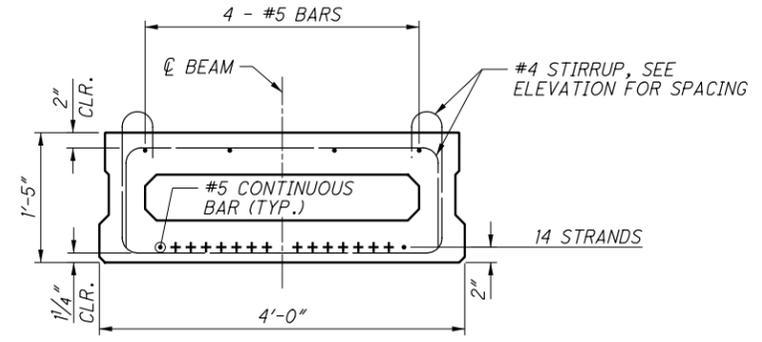
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 PID No. 120806

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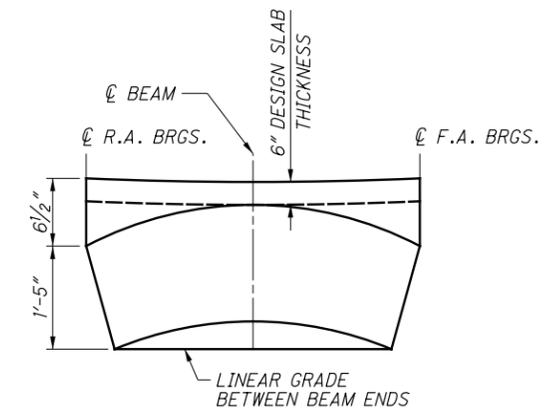
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**FRAMING PLAN**

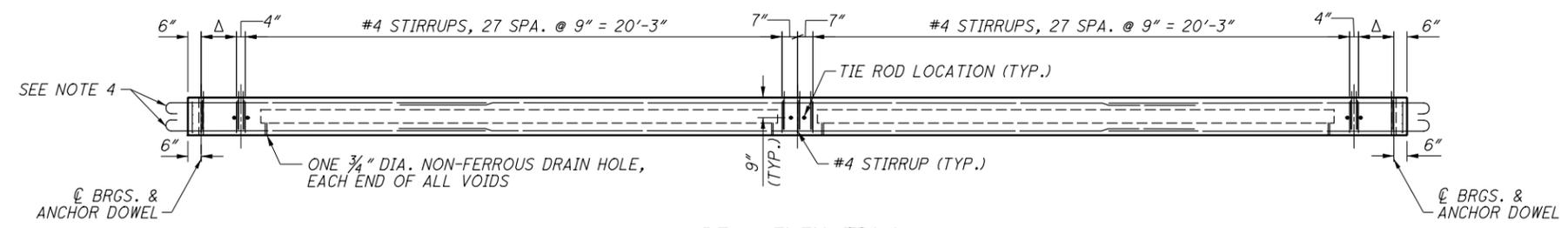


**BEAM DETAILS**



**CAMBER DIAGRAM**

AT MIDSPAN:  
CAMBER AT DAY 0 = 5/8"  
CAMBER AT DAY 30 = 7/8"  
VERTICAL ADJUSTMENT = 0"  
BEAM SEAT ELEVATIONS ASSUME ESTIMATED CAMBER AT DAY 30



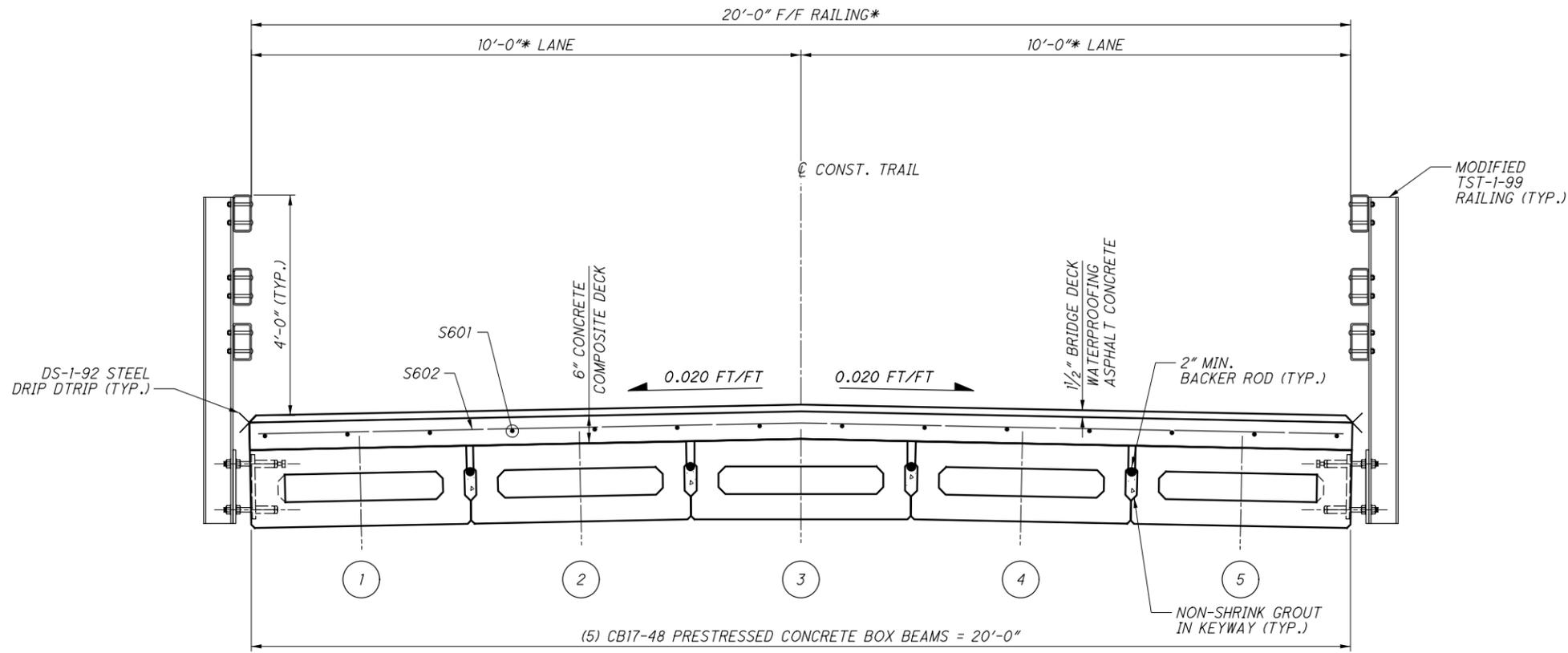
**BEAM ELEVATION**

**LEGEND:**

- Δ 4 SPA. @ 4" = 1'-4"
- ⊕ BEAM NUMBER
- MILD REINFORCING STEEL BAR
- + PRESTRESSING STRAND LOCATION, BONDED FULL LENGTH

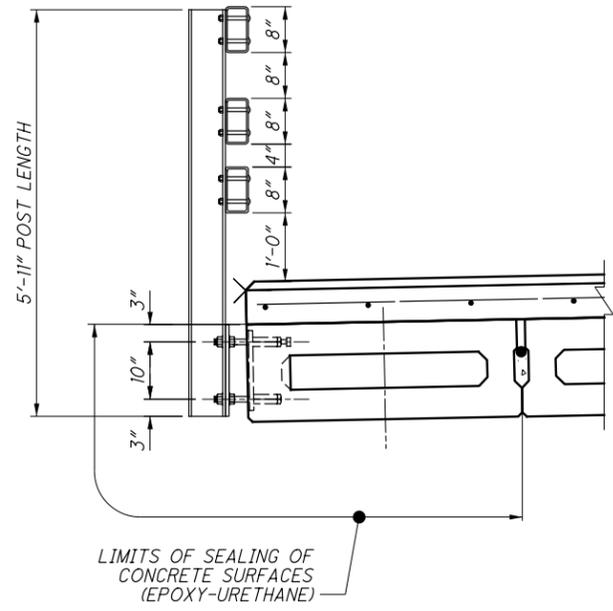
**NOTES:**

1. SEE ODOT SCD PSBD-1-25 FOR ADDITIONAL PRESTRESSED BOX BEAM DETAILS NOT SHOWN.
2. 2" DIA. ANCHOR DOWELS TO BE FILLED WITH 705.20 NON-SHRINK NON-METALLIC GROUT AT THE ABUTMENTS.
3. THE CALCULATED DEFLECTION DUE TO DEAD LOAD APPLIED AFTER THE BEAMS ARE SET (WEIGHT OF SURFACE COURSE, RAILING, ETC.) IS 3/8".
4. EXTEND TOP & BOTTOM LONGITUDINAL BARS AN EMBEDMENT OF 10" INTO ABUTMENT BACKWALL AND PROVIDE STANDARD 180° HOOK. BARS TO BE EPOXY COATED AND PAID FOR UNDER ITEM 515.
5. PROVIDE 1" DEEP SHEAR KEY CENTERED IN BEAM END. THE SHEAR KEY SHALL BE 8 1/2" TALL AND 38" WIDE.



TRANSVERSE SECTION

\* = PLUS FIT-UP



SEALING DETAIL

LEGEND:

⊘ - BEAM NUMBER

NOTES:

1. SEE SHEET 6/9 FOR ADDITIONAL RAILING DETAILS.
2. SEE ODOT SCD DS-1-92 FOR ADDITIONAL DRIP STRIP DETAILS.

HOL CO. TR. 5C2  
PID No. 120806

7/9

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TRANSVERSE SECTION  
BRIDGE NO. 009  
HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 12)

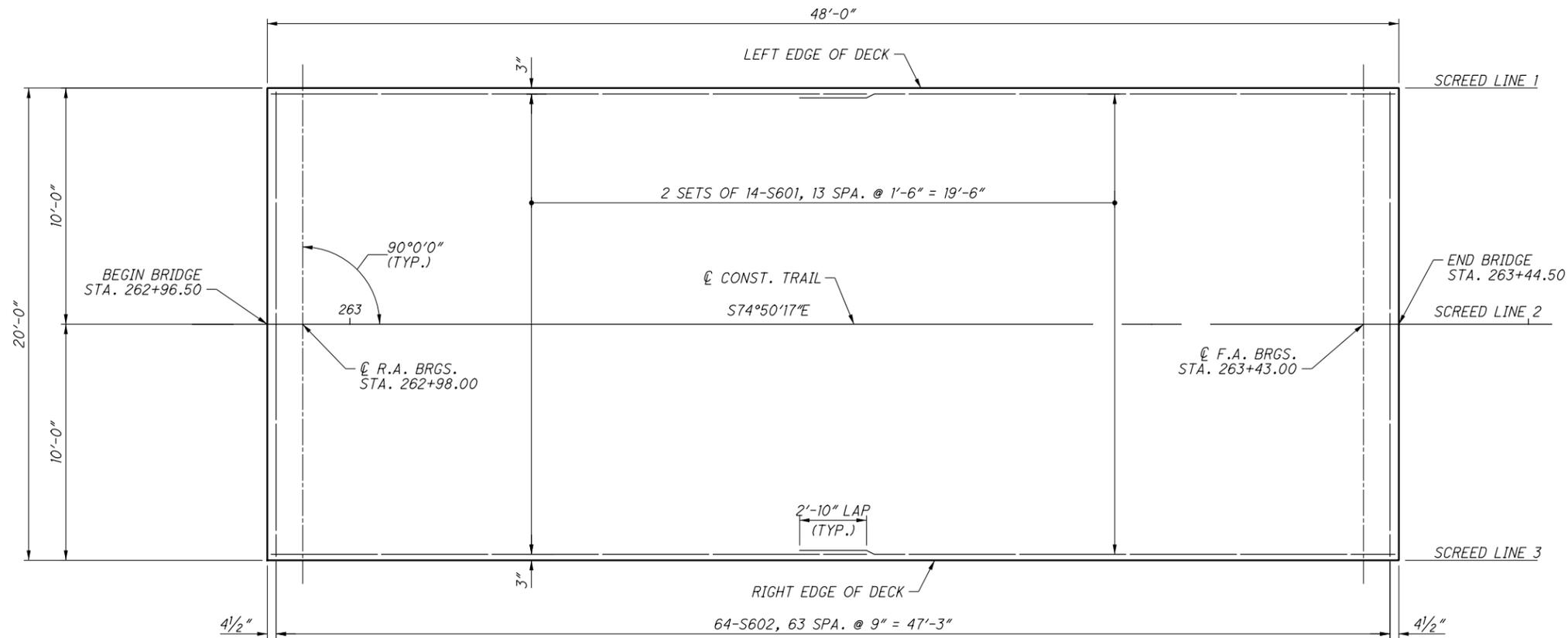
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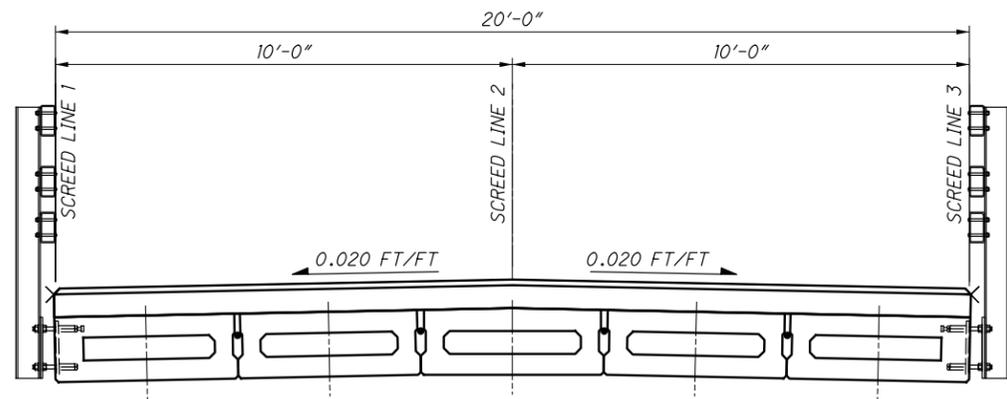
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TML  
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DATE  
06/2025

DESIGN AGENCY  
WOLPERT  
COLUMBUS, OH 43219  
T 614-776-8000  
F 614-776-6225



**DECK REINFORCING PLAN**



**TRANSVERSE SECTION**

FINAL DECK SURFACE AND SCREED ELEVATION TABLE						
LOCATION	CL R.A. BRGS.	SPAN 1			CL F.A. BRGS.	
		1/4 SPAN	1/2 SPAN	3/4 SPAN		
LEFT EDGE OF DECK SCREED LINE 1	STATION	262+98.00	263+09.25	263+20.50	263+31.75	263+43.00
	OFFSET (FT, LEFT)	10.00	10.00	10.00	10.00	10.00
	FINAL DECK ELEVATION	816.88	816.88	816.89	816.90	816.91
	SCREED ELEVATION	816.88	816.90	816.92	816.92	816.91
	DEAD LOAD DEFLECTIONS	0"	- 1/4"	- 5/16"	- 1/4"	0"
CENTERLINE CONST. TRAIL SCREED LINE 2	STATION	262+98.00	263+09.25	263+20.50	263+31.75	263+43.00
	FINAL DECK ELEVATION	817.08	817.08	817.09	817.10	817.11
	SCREED ELEVATION	817.08	817.10	817.12	817.12	817.11
	DEAD LOAD DEFLECTIONS	0"	- 1/4"	- 5/16"	- 1/4"	0"
	RIGHT EDGE OF DECK SCREED LINE 3	STATION	262+98.00	263+09.25	263+20.50	263+31.75
OFFSET (FT, RIGHT)		10.00	10.00	10.00	10.00	10.00
FINAL DECK ELEVATION		816.88	816.88	816.89	816.90	816.91
SCREED ELEVATION		816.88	816.90	816.92	816.92	816.91
DEAD LOAD DEFLECTIONS		0"	- 1/4"	- 5/16"	- 1/4"	0"

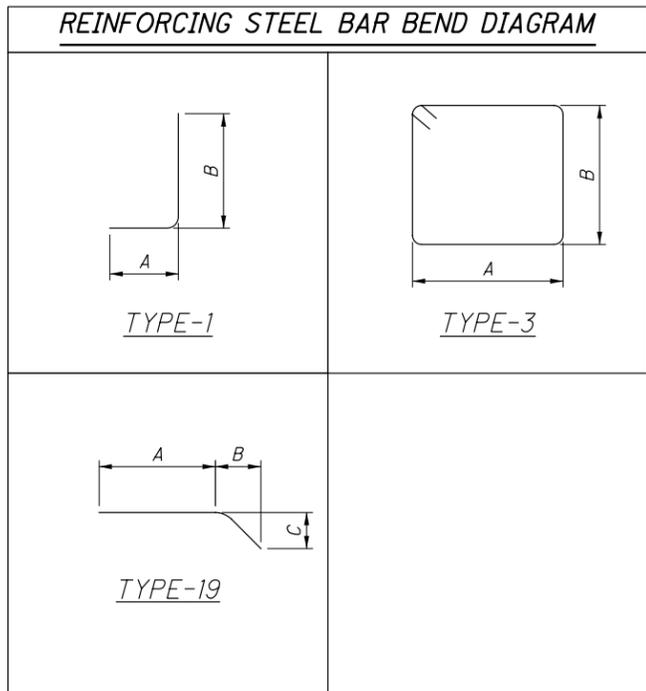
**NOTES:**

- SEE SHEET 7/9 FOR TRANSVERSE SECTION.
- SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.
- FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.
- STATIONS AND OFFSETS PROVIDED ALONG CENTERLINE CONST. TRAIL.
- DECK SLAB THICKNESS FOR CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK CONCRETE IS MEASURED ACCORDING TO C&MS 511. IN ADDITION TO THE DESIGN SLAB THICKNESS, THE QUANTITY INCLUDES A VARIABLE HAUNCH THICKNESS THAT PROVIDES AN ALLOWANCE FOR BEAM CAMBER.

ABUTMENT													
BAR MARK	MAT'RL TYPE	NUMBER		TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS					
		REAR	FWD.					A	B	C	D	E	R
D501	ECSR	46	46	92	4'-7"	440	1	2'-6"	2'-2"				
D502	ECSR	8	8	16	6'-4"	106	1	2'-0"	4'-5"				
A501	ECSR	2	2	4	23'-0"	96	ST.						
A502	ECSR	8	8	16	8'-8"	145	ST.						
A503	ECSR	4	4	8	6'-1"	51	ST.						
A504	ECSR	4	4	8	4'-0"	34	ST.						
A505	ECSR	2	2	4	16'-9"	70	3	2'-2"	5'-11"				
A506	ECSR	4	4	8	6'-5"	54	19	2'-2"	3'-10"	1'-10"			
		2	2	4	12'-11"				4'-0"				
A507	ECSR	SER OF 4	SER OF 4	SER OF 4	TO 15'-11"	241	3	2'-2"	TO 5'-6"				1'-0"
A601	ECSR	12	12	24	17'-2"	619	3	5'-8"	2'-6"				
A801	ECSR	4	4	8	23'-0"	492	ST.						
A802	ECSR	2	2	4	5'-7"	60	ST.						
A803	ECSR	2	2	4	3'-8"	40	ST.						
D801	ECSR	12	12	24	7'-5"	476	ST.						
D802	ECSR	12	12	24	5'-6"	353	ST.						
TOTAL =						3277	LBS						

DIAPHRAGMS													
BAR MARK	MAT'RL TYPE	NUMBER		TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS					
		REAR	FWD.					A	B	C	D	E	R
SD501	ECSR	6	6	12	22'-8"	284	ST.						
SD502	ECSR	20	20	40	5'-1"	213	3	8"	1'-7"				
SD503	ECSR	4	4	8	9'-1"	76	3	2'-8"	1'-7"				
SD504	ECSR	8	8	16	1'-2"	20	ST.						
TOTAL =						593	LBS						

SUPERSTRUCTURE													
BAR MARK	MAT'RL TYPE	TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS							
						A	B	C	D	E	R	INC.	
S601	ECSR	28	25'-3"	1062	ST.								
S602	ECSR	64	19'-8"	1891	ST.								
TOTAL =				2953	LBS								



**NOTES:**

- THE BAR SIZE NUMBER IS SPECIFIED IN THE BAR MARK COLUMN, THE FIRST DIGIT AFTER THE LETTERS WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS AFTER THE LETTERS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, RA501 IS A NO. 5 BAR IN THE REAR ABUTMENT. A LEGEND OF THE DESCRIPTORS IS GIVEN BELOW:
  - A ABUTMENT
  - SD DIAPHRAGM
  - D DOWEL
  - S SUPERSTRUCTURE
- BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE NOTED.
- "ST." INDICATES A STRAIGHT BAR.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- MATERIALS LEGEND, ECSR = EPOXY COATED STEEL REINFORCEMENT.

**REINFORCING STEEL LIST**

BRIDGE NO. 009  
HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 12)

**HOL CO. TR. 5C2**  
PID No. 120806

DESIGNED: SL  
CHECKED: PES

DRAWN: SL  
REVISED:

REVIEWED: TML  
STRUCTURE FILE NUMBER: 00000

DATE: 06/2025

DESIGN AGENCY: EASTON OVAL  
SUITE 400  
COLUMBUS, OH 43219  
TEL: 614-776-8000  
F: 614-776-6225  
**WOOLPERT**  
DESIGN ENGINEERING

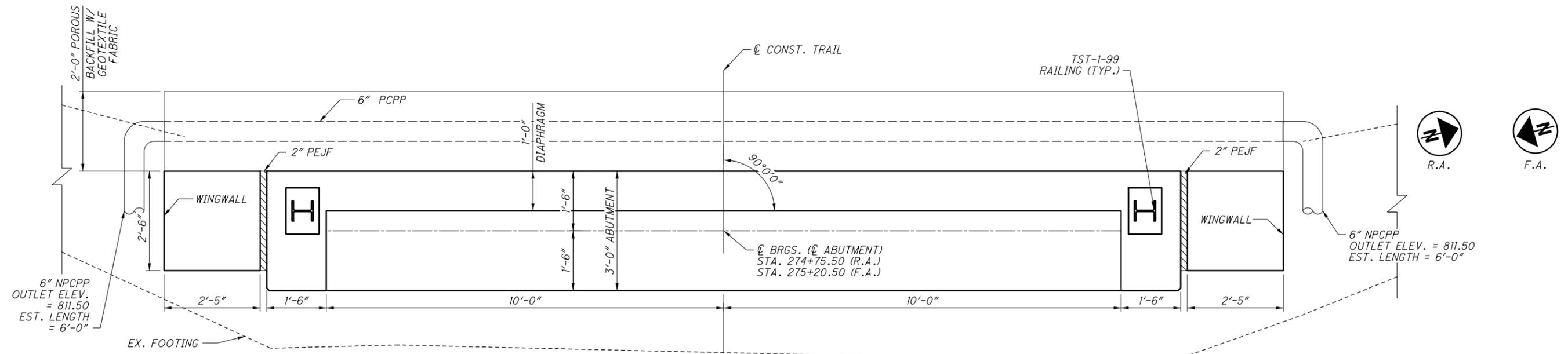
117  
133





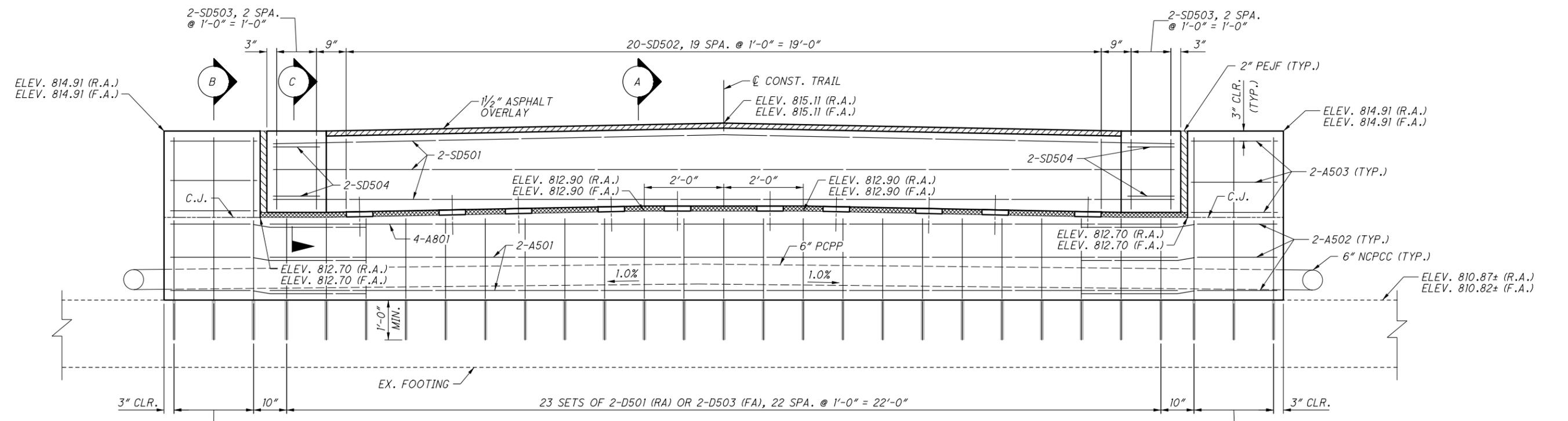
BRIDGE B10 ESTIMATED QUANTITIES					DATE: 6/13/2025
					CALC BY: JYM
					CHECK BY: SL
					DATE: 6/17/2025
ITEM	EXT	QUANTITY	UNIT	DESCRIPTION	SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	2/9
203	10000	27	CY	EXCAVATION	
203	20000	32	CY	EMBANKMENT	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
503	21100	30	CY	UNCLASSIFIED EXCAVATION	
509	10000	5053	LB	EPOXY COATED STEEL REINFORCEMENT	
510	10001	116	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	2/9
511	31610	22	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
511	44110	14	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	
512	10100	71	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
515	12030	5	EA	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48, 46'-0"	
516	13900	21	SF	2" PREFORMED EXPANSION JOINT FILLER	
516	31010	40	FT	2" DEEP JOINT SEALER	
516	43101	20	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN, 1.5" THICK	5/9
517	70001	102	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	2/9
518	21200	14	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
SPECIAL	518E22300	107	FT	STEEL DRIP STRIP	
518	40000	57	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	24	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
519	11101	20	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	2/9
601	32200	28	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
856	10000	5	CY	BRIDGE DECK WATERPROOFING ASPHALT CONCRETE	

G:\DE\Clients\OH\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\Design\Structures\Sheets\Bridges\100\2372\_SR301.dgn Sheet 9/2/2025 10:41:5 AM A.Adar



**ABUTMENT PLAN**

(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)



**ABUTMENT ELEVATION**

(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)

**LEGEND:**

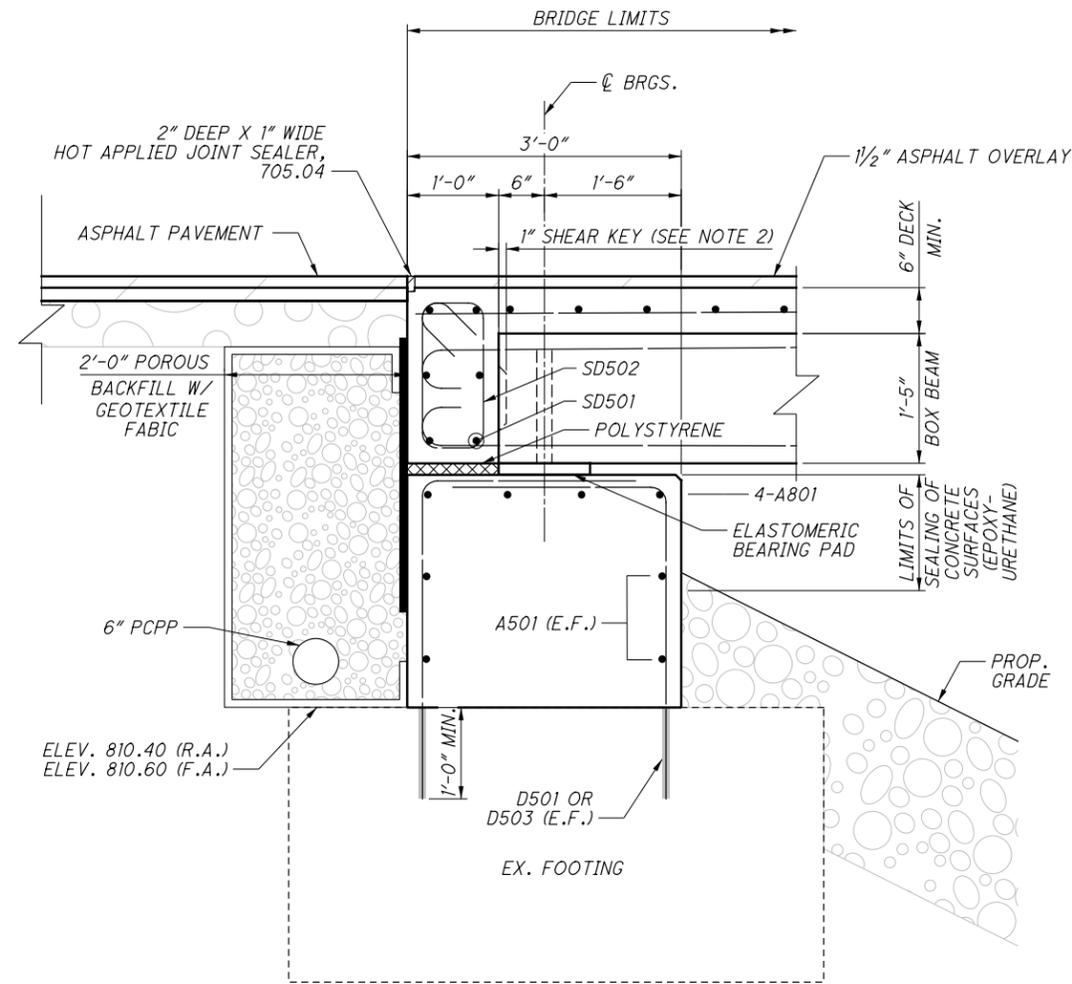
— DOWEL BAR

**NOTES:**

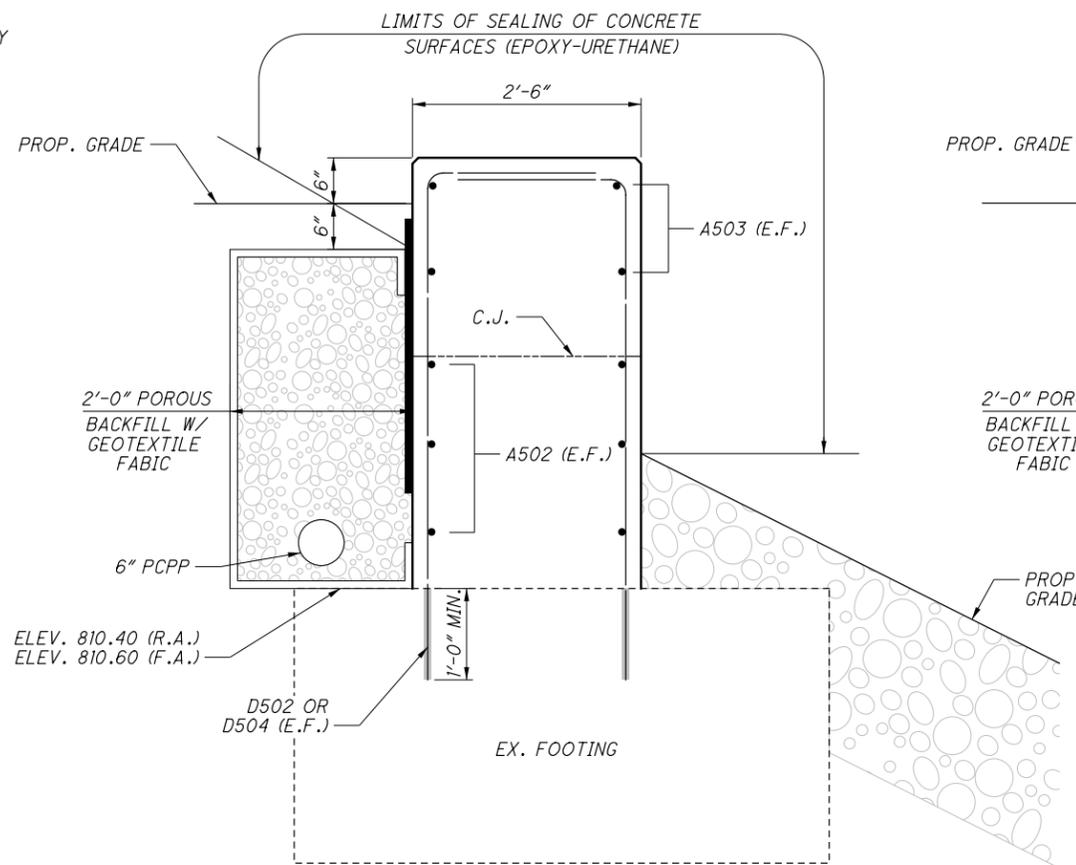
- ALL DIMENSIONS MEASURED ALONG CENTERLINE BEARING.
- SEE SHEET 5/9 FOR SECTION A, SECTION B, AND SECTION C.
- REINFORCING STEEL LAP LENGTHS ARE AS FOLLOWS:  
#5 BARS = 2'-5".

DESIGN AGENCY WOLPERT DESIGN/CONSTRUCTION/MAINTENANCE	
DATE 06/2025	FILE NUMBER 00000
REVIEWED TML	STRUCTURE FILE NUMBER 00000
DRAWN SL	REVISED PES
DESIGNED SL	CHECKED PES
<b>ABUTMENT PLAN AND ELEVATION</b> BRIDGE NO. 010 HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 11)	
<b>HOL CO. TR. 5C2</b> PID No. 120806	
4 / 9 121 133	

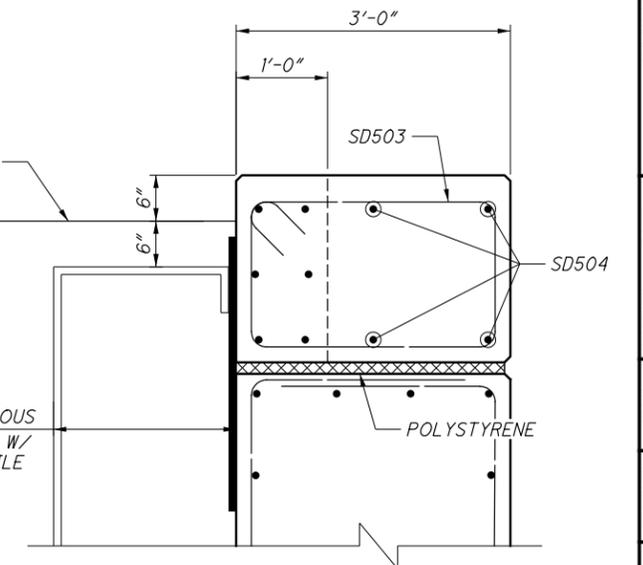
G:\Clients\04\_Holmes County Parks\100\2372\_Holmes\_Trail\_5C2\120806\_Holmes\_Trail\_5C2\Design\Structures\Sheets\Bridges\B10\100\2372\_SR302.dgn Sheet 9/2/2025 10:41:16 AM A.Adir



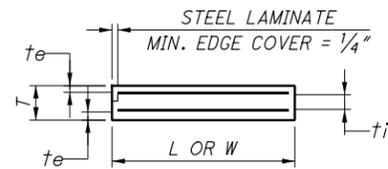
**SECTION A-A**  
(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)



**SECTION B-B**  
(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)



**SECTION C-C**  
(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)



**LEGEND:**

- DOWEL BAR
- $t_e$  = EXTERIOR LAYER THICKNESS
- $N_e$  = NUMBER OF EXTERIOR LAYERS
- $t_i$  = INTERIOR LAYER THICKNESS
- $N_i$  = NUMBER OF INTERIOR LAYERS
- DL = DEAD LOAD
- LL = LIVE LOAD

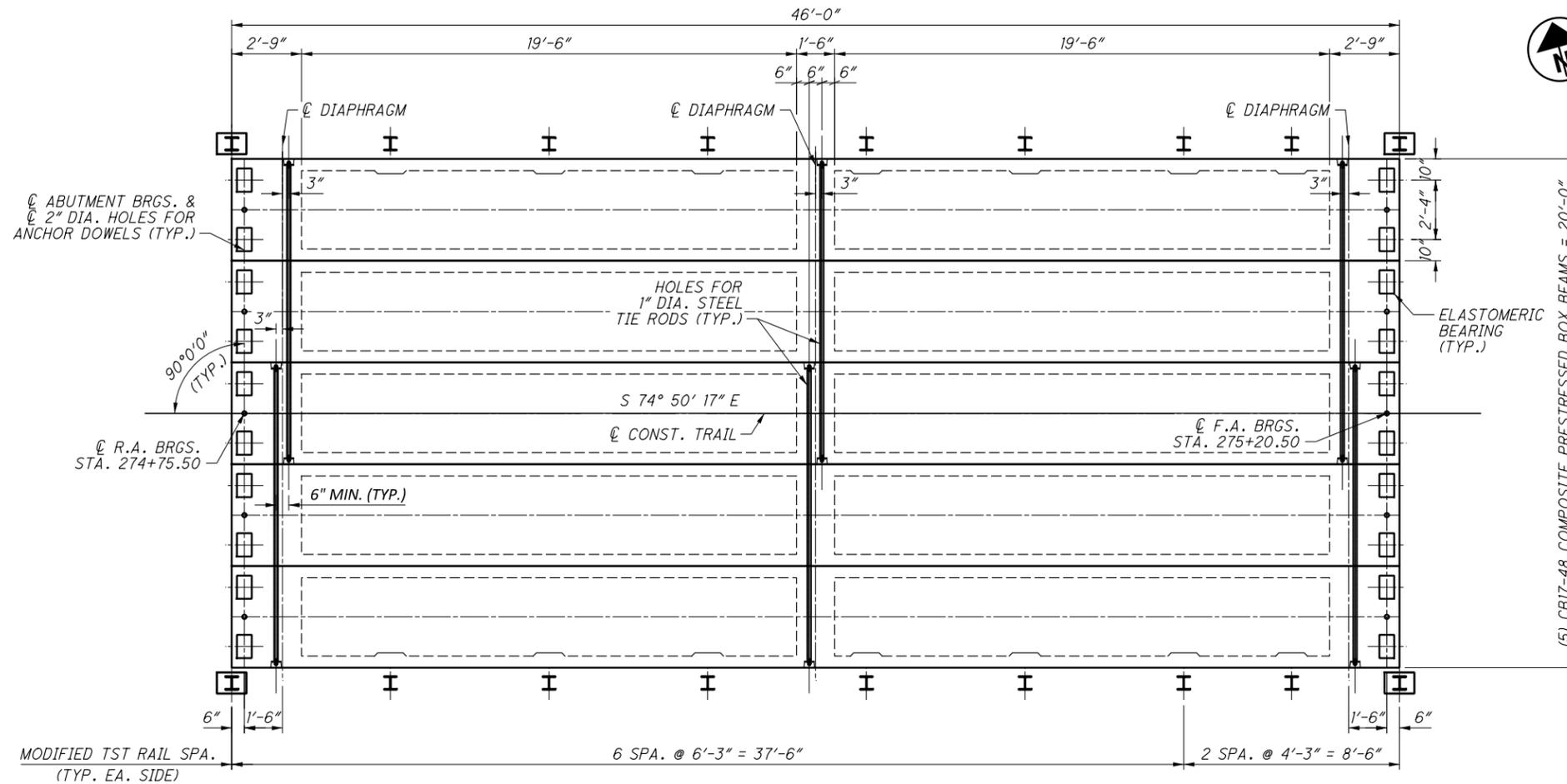
**NOTES:**

1. SEE SHEET 4/9 FOR ABUTMENT PLAN AND ELEVATION.
2. PROVIDE A 1" DEEP SHEAR KEY CENTERED IN BEAM END. THE SHEAR KEY HEIGHT SHALL BE ONE-HALF OF THE BOX BEAM HEIGHT AND THE WIDTH SHALL BE 38".
3. PROVIDE 1 1/2" EXPANDED POLYSTYRENE FILLER ALONG BEAM SEAT.
4. ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG-TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
5. STEEL LAMINATES SHALL HAVE A THICKNESS OF 12-GAGE (0.1046 INCHES).

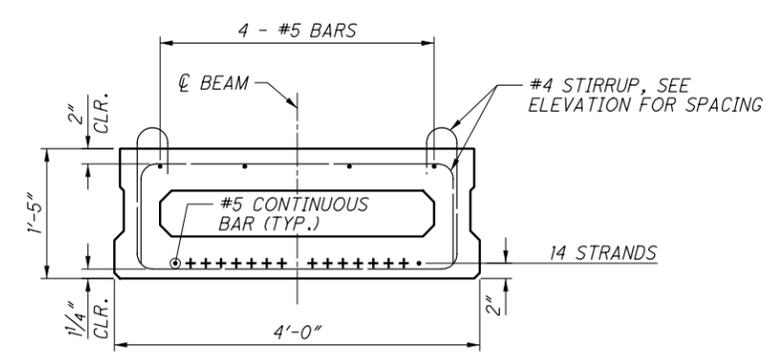
LOCATION	L	W	T	$t_e$	$N_e$	$t_i$	$N_i$	$t_s$ (12 GAGE)	DESIGN LOADS (KIPS)			DESIGN ROTATION (RAD.)	
									DL	LLmax	LLmin		
									SERVICE TOTAL				
EXTERIOR	7"	11"	1.409"	0.35"	2	0.5"	1	0.1046"	13.5	5.9	0.0	19.4	0.005376
INTERIOR	7"	11"	1.409"	0.35"	2	0.5"	1	0.1046"	13.5	4.9	0.0	18.4	0.005376

**LAMINATED ELASTOMERIC BEARING**

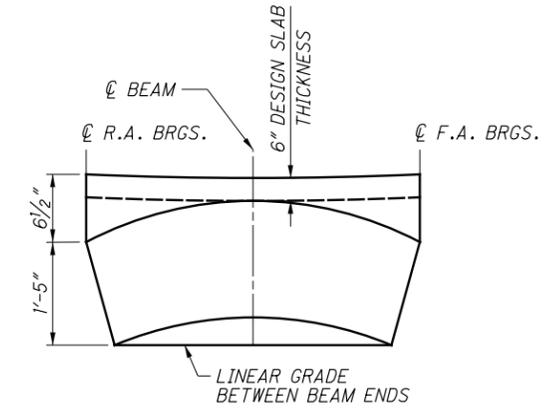
G:\Clients\OH\_Holmes County Parks\10012372\_Holmes\_Trail\_5C2\120806\_Holmes\_Trail\_5C2\Design\Structures\Sheets\Bridges\10012372\_SS301.dgn Sheet 9/2/2025 10:41:17 AM A.Adair



**FRAMING PLAN**

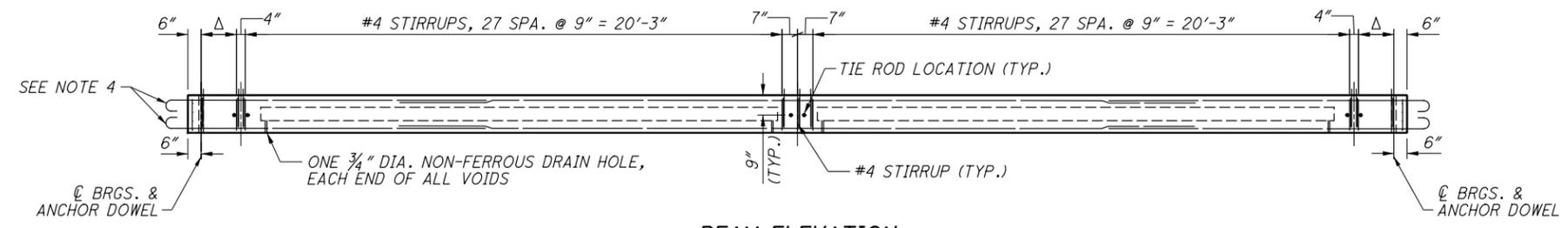


**BEAM DETAILS**



**CAMBER DIAGRAM**

AT MIDSPAN:  
 CAMBER AT DAY 0 = 5/8"  
 CAMBER AT DAY 30 = 7/8"  
 VERTICAL ADJUSTMENT = 0"  
 BEAM SEAT ELEVATIONS ASSUME ESTIMATED CAMBER AT DAY 30



**BEAM ELEVATION**

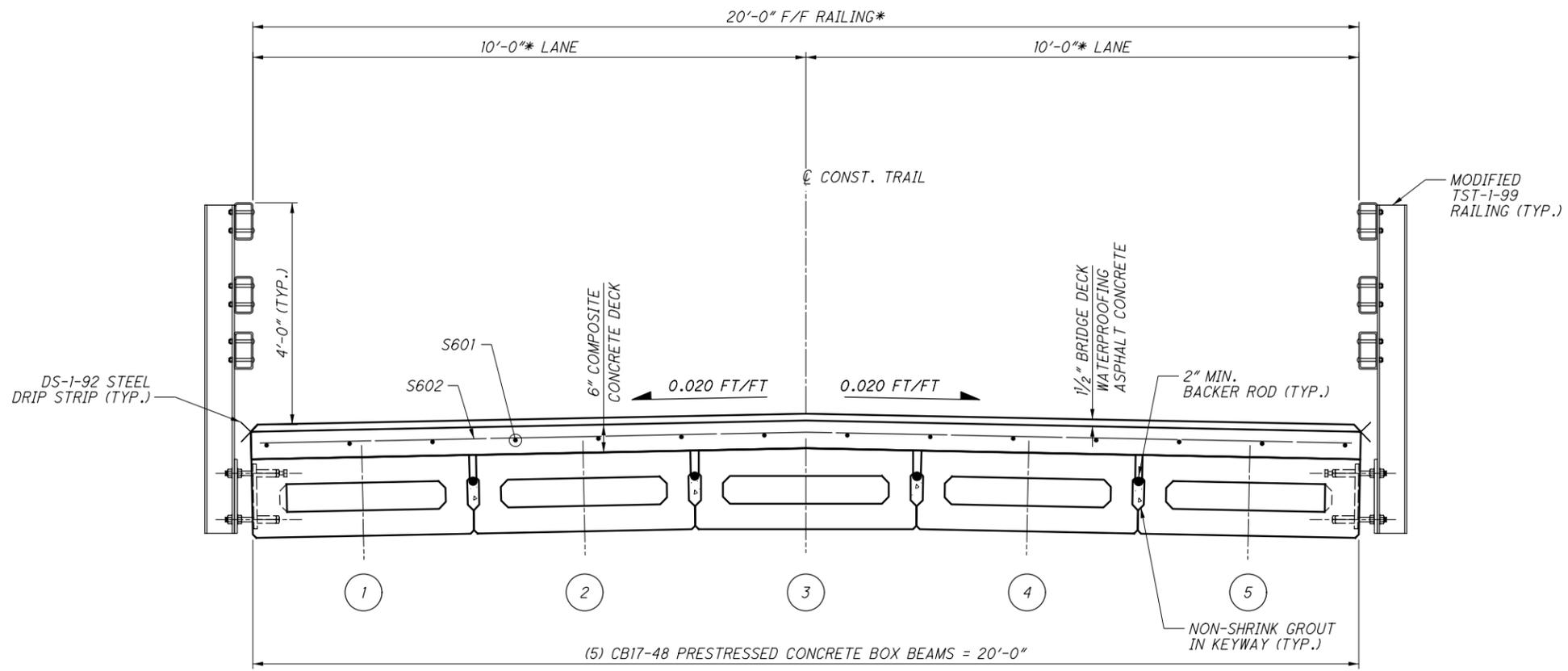
**LEGEND:**

- Δ 4 SPA. @ 4" = 1'-4"
- ⊕ BEAM NUMBER
- MILD REINFORCING STEEL BAR
- + PRESTRESSING STRAND LOCATION, BONDED FULL LENGTH

**NOTES:**

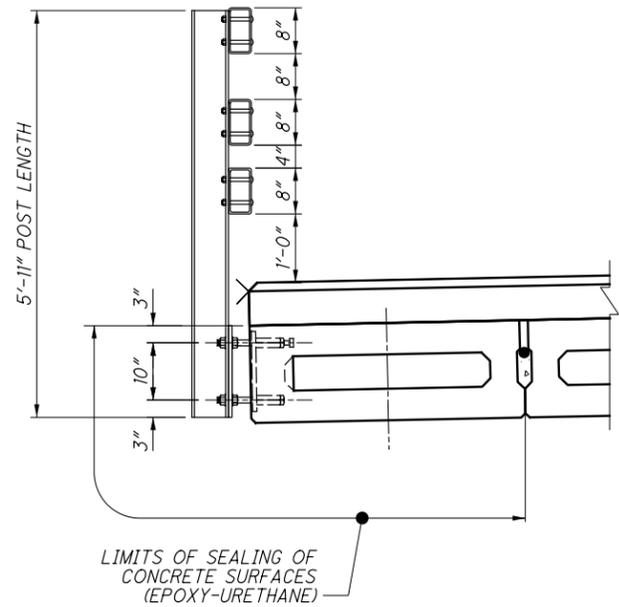
1. SEE ODOT SCD PSBD-1-25 FOR ADDITIONAL PRESTRESSED BOX BEAM DETAILS NOT SHOWN.
2. 2" DIA. ANCHOR DOWELS TO BE FILLED WITH 705.20 NON-SHRINK NON-METALLIC GROUT AT THE ABUTMENTS.
3. THE CALCULATED DEFLECTION DUE TO DEAD LOAD APPLIED AFTER THE BEAMS ARE SET (WEIGHT OF SURFACE COURSE, RAILING, ETC.) IS 3/8".
4. EXTEND TOP & BOTTOM LONGITUDINAL BARS AN EMBEDMENT OF 10" INTO ABUTMENT BACKWALL AND PROVIDE STANDARD 180° HOOK. BARS TO BE EPOXY COATED AND PAID FOR UNDER ITEM 515.
5. PROVIDE 1" DEEP SHEAR KEY CENTERED IN BEAM END. THE SHEAR KEY SHALL BE 8 1/2" TALL AND 38" WIDE.

<b>HOL. CO. TR. 5C2</b> PID No. 120806	<b>FRAMING PLAN AND DETAILS</b> BRIDGE NO. B010 HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 1)	DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225 <b>WOOLPERT</b> DESIGN ENGINEERING ARCHITECTURE
DESIGNED JYM CHECKED PES	DRAWN JYM REVISED	REVIEWED TML DATE 06/2025 STRUCTURE FILE NUMBER 00000
6 / 9	123 133	



**TRANSVERSE SECTION**

\* = PLUS FIT-UP



**SEALING DETAIL**

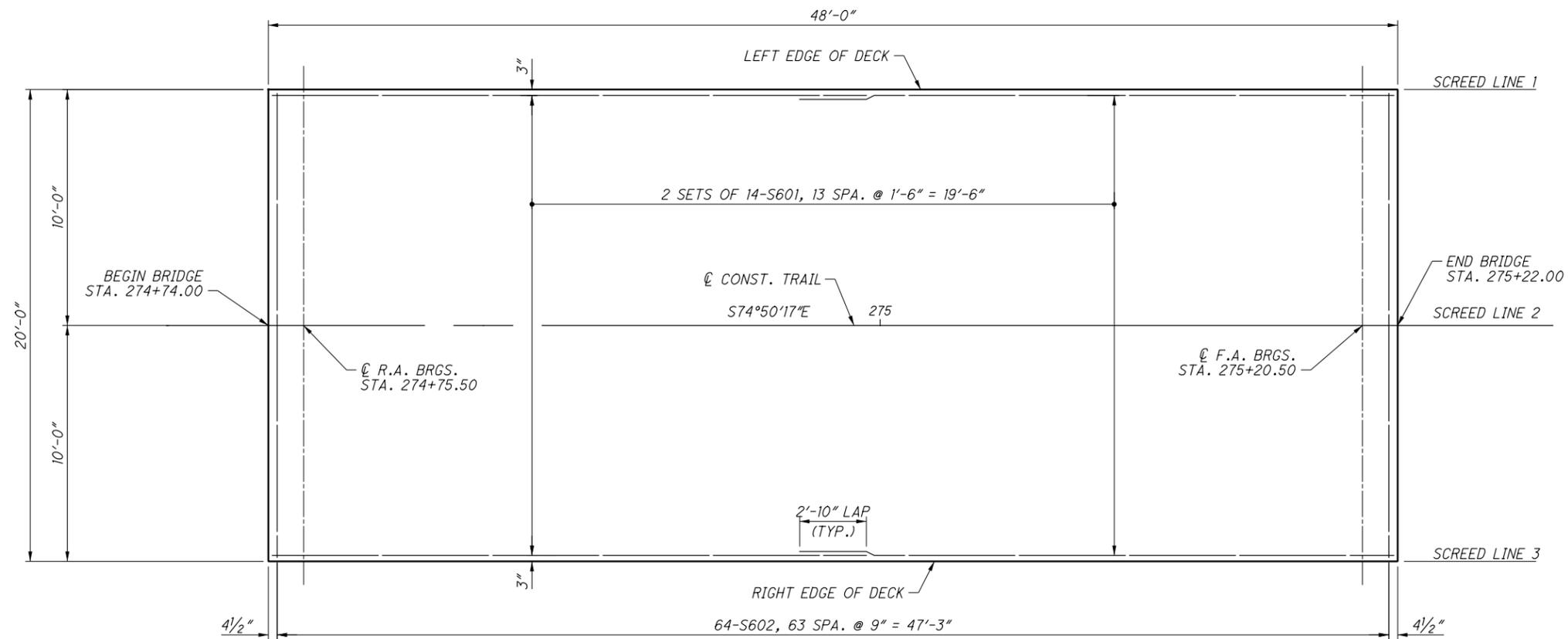
**LEGEND:**

# - BEAM NUMBER

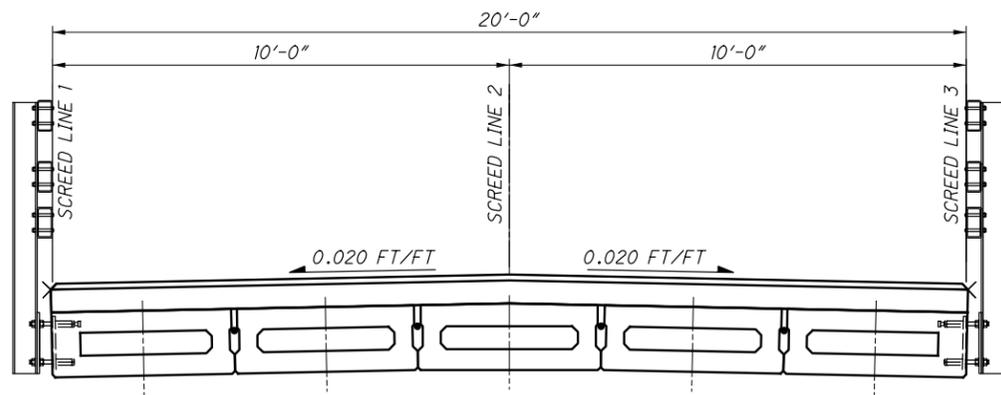
**NOTES:**

1. SEE SHEET 6/9 FOR ADDITIONAL RAILING DETAILS.
2. SEE ODOT SCD DS-1-92 FOR ADDITIONAL DRIP STRIP DETAILS.

<b>HOL CO. TR. 5C2</b> PID No. 120806	<b>TRANSVERSE SECTION</b> BRIDGE NO. 010 HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 1)		DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225
	7 / 9	DATE 06/2025	REVIEWED TML STRUCTURE FILE NUMBER 00000
124 133	DRAWN JYM REVISIONS	DESIGNED JYM CHECKED PES	WOOLPERT CIVIL ENGINEERING & SURVEYING



**DECK REINFORCING PLAN**



**TRANSVERSE SECTION**

FINAL DECK SURFACE AND SCREED ELEVATION TABLE						
LOCATION	CL R.A. BRGS.	SPAN 1			CL F.A. BRGS.	
		1/4 SPAN	1/2 SPAN	3/4 SPAN		
LEFT EDGE OF DECK SCREED LINE 1	STATION	274+75.50	274+86.75	274+98.00	275+09.25	275+20.50
	OFFSET (FT, LEFT)	10.00	10.00	10.00	10.00	10.00
	FINAL DECK ELEVATION	814.91	814.91	814.91	814.91	814.91
	SCREED ELEVATION	814.91	814.93	814.94	814.93	814.91
DEAD LOAD DEFLECTIONS	0"	- 1/4"	- 5/16"	- 1/4"	0"	
CENTERLINE CONST. TRAIL SCREED LINE 2	STATION	274+75.50	274+86.75	274+98.00	275+09.25	275+20.50
	FINAL DECK ELEVATION	815.11	815.11	815.11	815.11	815.11
	SCREED ELEVATION	815.11	815.13	815.14	815.13	815.11
	DEAD LOAD DEFLECTIONS	0"	- 1/4"	- 5/16"	- 1/4"	0"
RIGHT EDGE OF DECK SCREED LINE 3	STATION	274+75.50	274+86.75	274+98.00	275+09.25	275+20.50
	OFFSET (FT, RIGHT)	10.00	10.00	10.00	10.00	10.00
	FINAL DECK ELEVATION	814.91	814.91	814.91	814.91	814.91
	SCREED ELEVATION	814.91	814.93	814.94	814.93	814.91
DEAD LOAD DEFLECTIONS	0"	- 1/4"	- 5/16"	- 1/4"	0"	

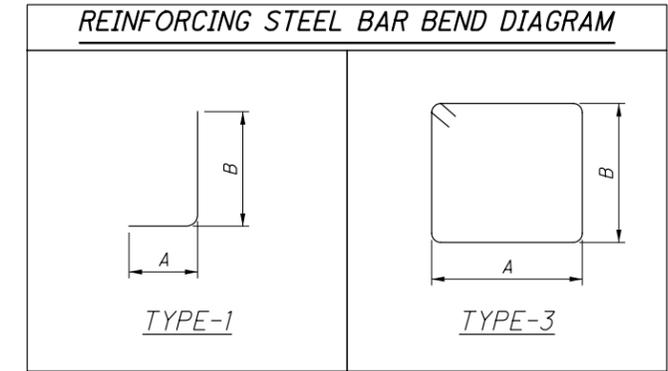
**NOTES:**

- SEE SHEET 7/9 FOR TRANSVERSE SECTION.
- SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.
- FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.
- STATIONS AND OFFSETS PROVIDED ALONG CENTERLINE CONST. TRAIL.
- DECK SLAB THICKNESS FOR CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK CONCRETE IS MEASURED ACCORDING TO C&MS 511. IN ADDITION TO THE DESIGN SLAB THICKNESS, THE QUANTITY INCLUDES A VARIABLE HAUNCH THICKNESS THAT PROVIDES AN ALLOWANCE FOR BEAM CAMBER.

ABUTMENT													
BAR MARK	MAT'RL TYPE	NUMBER		TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS					
		REAR	FWD.					A	B	C	D	E	R
D501	ECSR	46	46	92	5'-0"	480	1	2'-6"	2'-7"				
D502	ECSR	12	12	24	6'-9"	169	1	2'-0"	4'-10"				
A501	ECSR	4	4	8	23'-0"	192	ST.						
A502	ECSR	12	12	24	4'-10"	121	ST.						
A503	ECSR	12	12	24	2'-1"	53	ST.						
A801	ECSR	4	4	8	23'-0"	492	ST.						
TOTAL =						1507	LBS						

DIAPHRAGMS													
BAR MARK	MAT'RL TYPE	NUMBER		TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS					
		REAR	FWD.					A	B	C	D	E	R
SD501	ECSR	6	6	12	22'-8"	284	ST.						
SD502	ECSR	20	20	40	5'-1"	213	3	8"	1'-7"				
SD503	ECSR	4	4	8	9'-1"	76	3	2'-8"	1'-7"				
SD504	ECSR	8	8	16	1'-2"	20	ST.						
TOTAL =						593	LBS						

SUPERSTRUCTURE													
BAR MARK	MAT'RL TYPE	TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS							
						A	B	C	D	E	R	INC.	
S601	ECSR	28	25'-3"	1062	ST.								
S602	ECSR	64	19'-8"	1891	ST.								
TOTAL =				2953	LBS								



**NOTES:**

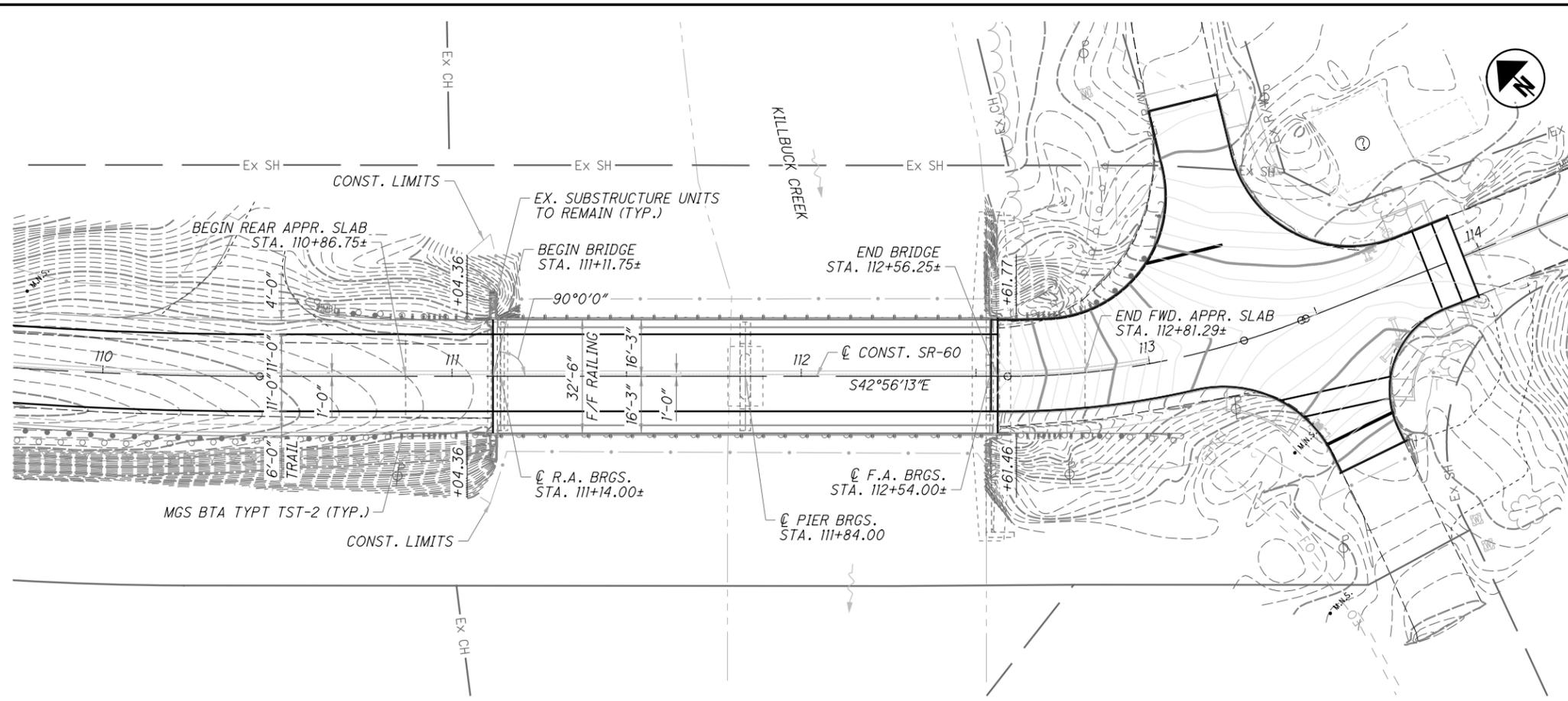
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- A ABUTMENT
- SD DIAPHRAGM
- D DOWEL
- S SUPERSTRUCTURE

2. BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE NOTED.
3. "ST." INDICATES A STRAIGHT BAR.
4. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
5. MATERIALS LEGEND, ECSR = EPOXY COATED STEEL REINFORCEMENT.

DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225 WOOLPERT DESIGN CONSULTANTS, INC.	REVIEWED TML DATE 06/2025 STRUCTURE FILE NUMBER 00000	DRAWN SL CHECKED PES	DESIGNED SL CHECKED PES	<b>REINFORCING STEEL LIST</b> BRIDGE NO. 010 HOLMES COUNTY TRAIL OVER BLACK CREEK (STREAM 1)	HOL CO. TR. 5C2 PID No. 120806
9 / 9					
126 133					

G:\DE\Clients\OH\_Holmes County Parks\10022288\_SR60\120806\_SRF60\Design\Structures\Sheets\20806\_SP001.dgn Sheet 9/2/2025 10:14:25 AM A.Adair



BENCHMARK DATA	
CNPT IP#7	STA. 106+91.60, ELEV. 809.29, OFFSET 19.13' LT.

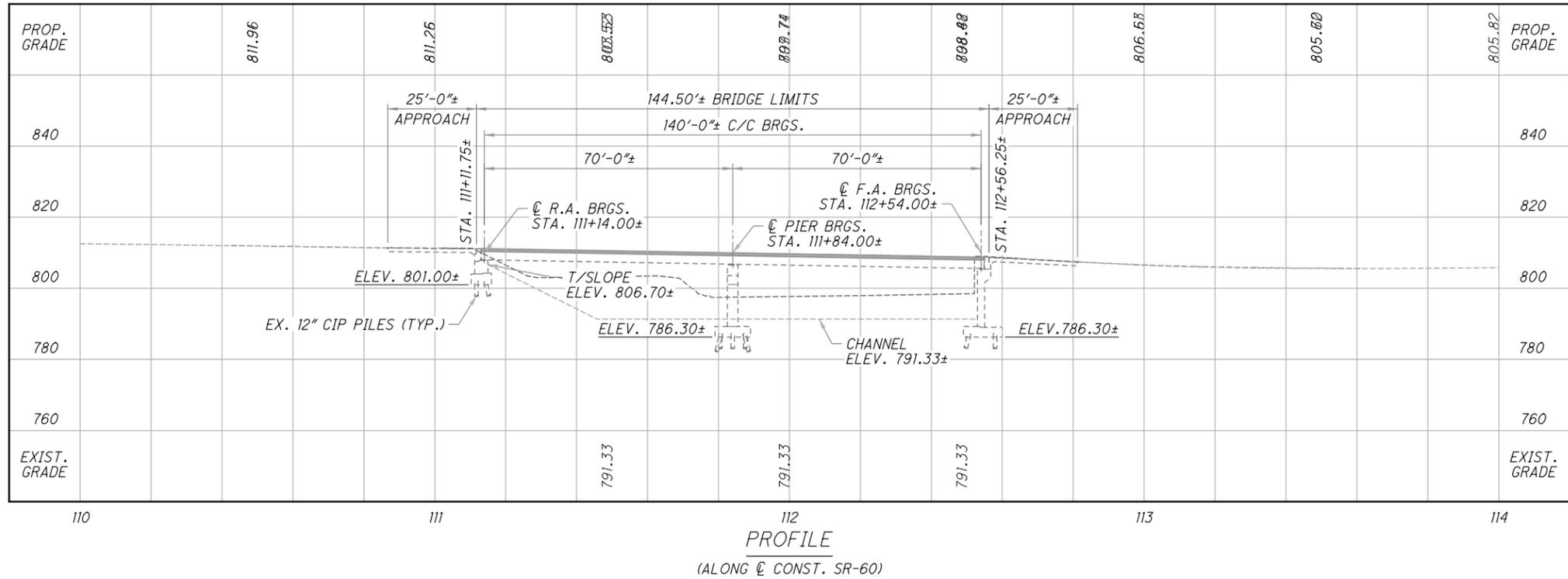
FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 3/133

**NOTES**  
 EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:  
 2024 ADT = 1704      2024 ADTT = 189  
 2044 ADT = 1704      2044 ADTT = 189  
 DIRECTIONAL DISTRIBUTION = 58%

EXISTING STRUCTURE	
TYPE:	TWO-SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK, CONCRETE STUB ABUTMENT AND WALL-TYPE ABUTMENT ON CIP PILES AND CONCRETE TEE-TYPE PIER ON CIP PILES
SPANS:	70'-0"±, 70'-0"± C/C BRGS.
ROADWAY:	28'-0"± T/T CURB WITH 2'-3"± SAFETY CURBS
LOADING:	CF130(57)
SKEW:	NONE
WEARING SURFACE:	3/4" MONOLITHIC CONCRETE
APPROACH SLABS:	REAR AS-1-54 (25'-0"± LONG), FORWARD SPECIAL (25'-0"± LONG)
ALIGNMENT:	TANGENT
CROWN:	3/16"/FT
STRUCTURAL FILE NUMBER:	3800725
DATE BUILT:	1962
DISPOSITION:	DECK EDGES, SAFETY CURBS, AND RAILINGS TO BE REMOVED AND REPLACED

PROPOSED STRUCTURE	
TYPE:	TWO-SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK, CONCRETE STUB ABUTMENT AND WALL-TYPE ABUTMENT ON CIP PILES AND CONCRETE TEE-TYPE PIER ON CIP PILES
SPANS:	70'-0"±, 70'-0"± C/C BRGS.
ROADWAY:	32'-6" F/F TST RAILINGS
LOADING:	H-15 AND 90 PSF PEDESTRIAN
SKEW:	NONE
FUTURE WEARING SURFACE:	60 PSF
APPROACH SLABS:	REAR AS-1-54 (25'-0"± LONG), FORWARD SPECIAL (25'-0"± LONG)
ALIGNMENT:	TANGENT
CROWN:	3/16"/FT
COORDINATES:	LATITUDE 40°30'3.10" LONGITUDE 81°59'02.11"



DESIGN AGENCY: EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225

**WOOLPERT**  
 DESIGN ENGINEERING

DATE: 06/2025  
 REVIEWED: TML  
 DRAWN: JYM  
 DESIGNED: JYM

STRUCTURE FILE NUMBER: 3800725

**SITE PLAN**  
 BRIDGE NO. HOL-60-0423  
 SR-60 OVER KILLBUCK CREEK

**HOL CO. TR. 5C2**  
 PID No. 120806

1 / 7

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 133

**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:  
PCB-91 REVISED 7/17/2020  
TST-2-21 REVISED 1/17/2025

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:  
843 DATED 1/19/2024

**DESIGN SPECIFICATIONS:**

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

**OPERATIONAL IMPORTANCE:**

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

**DESIGN LOADING:**

DESIGN LOADING INCLUDES:  
VEHICULAR LIVE LOAD: H-15  
FUTURE WEARING SURFACE (FWS) OF 0.06 KSF  
PEDESTRIAN LIVE LOAD: 0.09 KSF

**DESIGN DATA:**

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)  
EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60 KSI (DECK)

**DECK PROTECTION METHOD:**

EPOXY COATED REINFORCING STEEL  
1 3/4" ± CONCRETE COVER

**MONOLITHIC WEARING SURFACE:**

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 3/4" INCH THICK.

**EXISTING STRUCTURE VERIFICATION:**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**DEMOLITION DEBRIS:**

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:**

THIS WORK CONSISTS OF THE REMOVAL OF CONCRETE DECKS INCLUDING CURBS, METAL RAILINGS, DECK JOINTS, SCUPPERS, AND OTHER APPURTENANCES FROM STEEL SUPPORTING SYSTEMS. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE EQUIPMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

**DECK REMOVALS - DECK EDGE REHABILITATION:**

IF THE CONTRACTOR'S MEANS AND METHODS REQUIRE DRILLING HOLES THROUGH THE BRIDGE DECK, ALL HOLES SHALL BE DRILLED FROM THE BOTTOM OF THE DECK UPWARD. DRILLING HOLES FROM THE TOP OF THE DECK IS NOT PERMITTED. FALSEWORK INTENDED TO FORM THE NEW DECK EDGE MAY BE USED AS A WORK PLATFORM TO AID IN THE DECK EDGE REMOVAL. IF FORMS BECOME DAMAGED DURING CONCRETE REMOVAL, THE DAMAGED PORTIONS SHALL BE REPAIRED OR REPLACED PRIOR TO POURING THE CONCRETE. PRIOR TO PLACING CONCRETE, THOROUGHLY CLEAN ALL SURFACES OF THE FORMS THAT CONTACT THE BOTTOM OF THE EXISTING BRIDGE DECK TO ENSURE A SNUG FIT BETWEEN THE FORMS AND EXISTING BRIDGE DECK. THE PORTION OF THE FORM TO BE IN CONTACT WITH THE FRESH CONCRETE SHALL BE FREE OF LAITANCE, SILT, DIRT, SHAVINGS, SAWDUST, LOOSE AND BUILT-UP RUST, AND OTHER DEBRIS. ALL HOLES DRILLED THROUGH THE BRIDGE DECK SHALL BE REPAIRED WITH TROWELABLE MORTAR IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 843.

IF A SPLITTER IS USED TO DEMOLISH THE DECK EDGE, HOLES SHALL BE SPACED NO FURTHER THAN 12-IN APART, MEASURED LONGITUDINALLY ALONG THE BRIDGE DECK. EACH HOLE SHALL BE USED TO SPLIT THE CONCRETE; SKIPPING HOLES WILL NOT BE PERMITTED. ANY DAMAGE TO THE EXISTING STRUCTURE THAT IS TO REMAIN WILL BE REPAIRED AT NO ADDITIONAL COST TO THE DEPARTMENT. IF THE DAMAGE TO THE REMAINING STRUCTURE IS SIGNIFICANT, AT THE DIRECTION OF THE ENGINEER, PROVIDE A REPAIR PLAN IN ACCORDANCE WITH C&MS 501.05.C.

**CUT LINE CONSTRUCTION JOINT PREPARATION:**

PRIOR TO REMOVING THE DECK EDGE, PLACE A 1-IN (+0-IN, -1/4-IN) DEEP SAW CUT AT THE BOUNDARIES OF PROPOSED CONCRETE REMOVALS. IF THERE ARE INTEGRAL CONCRETE PIER CAPS WITHIN THE PROPOSED REMOVAL LIMITS, ALSO SAWCUT THE DECK CONCRETE ALONG THE INTERFACE OF THE DECK AND PIER CAP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCEMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT, ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

**ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):**

SEAL ALL CONCRETE SURFACES INCLUDING THE OUTSIDE FASCIAS OF THE DECK TO THE FASCIA BEAM UNDER THE DECK USING AN EPOXY-URETHANE SEALER. THE FINAL COLOR SHALL BE FEDERAL COLOR STANDARD NO. 17778, PER THE CMS.

**ITEM 517 - RAILING (THREE STEEL TUBE BRIDGE RAILING), AS PER PLAN:**

THE TST-2-21 RAILING ON THE RIGHT EDGE OF DECK SHALL BE MODIFIED WITH AN EXTENDED POST AND ADDITIONAL STEEL TUBE SIDE RAIL TO PROVIDE A MINIMUM 4'-3" HEIGHT FROM TOP OF RAIL TO TOP OF DECK. PAYMENT FOR THIS ITEM 517 - RAILING (THREE STEEL TUBE BRIDGE RAILING), AS PER PLAN SHALL INCLUDE STEEL POSTS, STEEL TUBING SIDE RAILS, AND ALL CONNECTION ELEMENTS INCLUDING BOLTS, NUTS, AND WASHERS.

**ABBREVIATIONS:**

- ABUT. - ABUTMENT
- APPR. - APPROACH
- APPROX. - APPROXIMATE
- BRG(S). - BEARING(S)
- C/C - CENTER TO CENTER
- ☉ - CENTERLINE
- C.J. - CONSTRUCTION JOINT
- CLR. - CLEAR
- CONST. - CONSTRUCTION
- EA. - EACH
- ELEV. - ELEVATION
- EX. - EXISTING
- F.A. - FORWARD ABUTMENT
- F/F - FACE TO FACE
- FWD. - FORWARD
- LT. - LEFT
- PROP. - PROPOSED
- R.A. - REAR ABUTMENT
- SPA. - SPACES
- STA. - STATION
- TBR - TO BE REMOVED
- T/T - TOE TO TOE
- TYP. - TYPICAL

SR60 STRUCTURE ESTIMATED QUANTITIES					DATE: 6/10/2025
ITEM	EXT	QUANTITY	UNIT	DESCRIPTION	SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	2/7
509	10000	6131	LB	EPOXY COATED STEEL REINFORCEMENT	
511	34410	40	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
512	10100	69	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
517	70100	154	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
517	70101	154	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING), AS PER PLAN	2/7

CALC BY: JYM  
CHECK BY: PES

**STRUCTURE GENERAL NOTES AND ESTIMATED QUANTITIES**

BRIDGE NO. HOL-60-0423  
SR-60 OVER KILLBUCK CREEK

**HOL CO. TR. 5C2**  
PID No. 120806

2 / 7

128  
133

DESIGN AGENCY: EASTON OVAL  
SUITE 400  
COLUMBUS, OH 43219  
T 614-776-8000  
F 614-776-6225

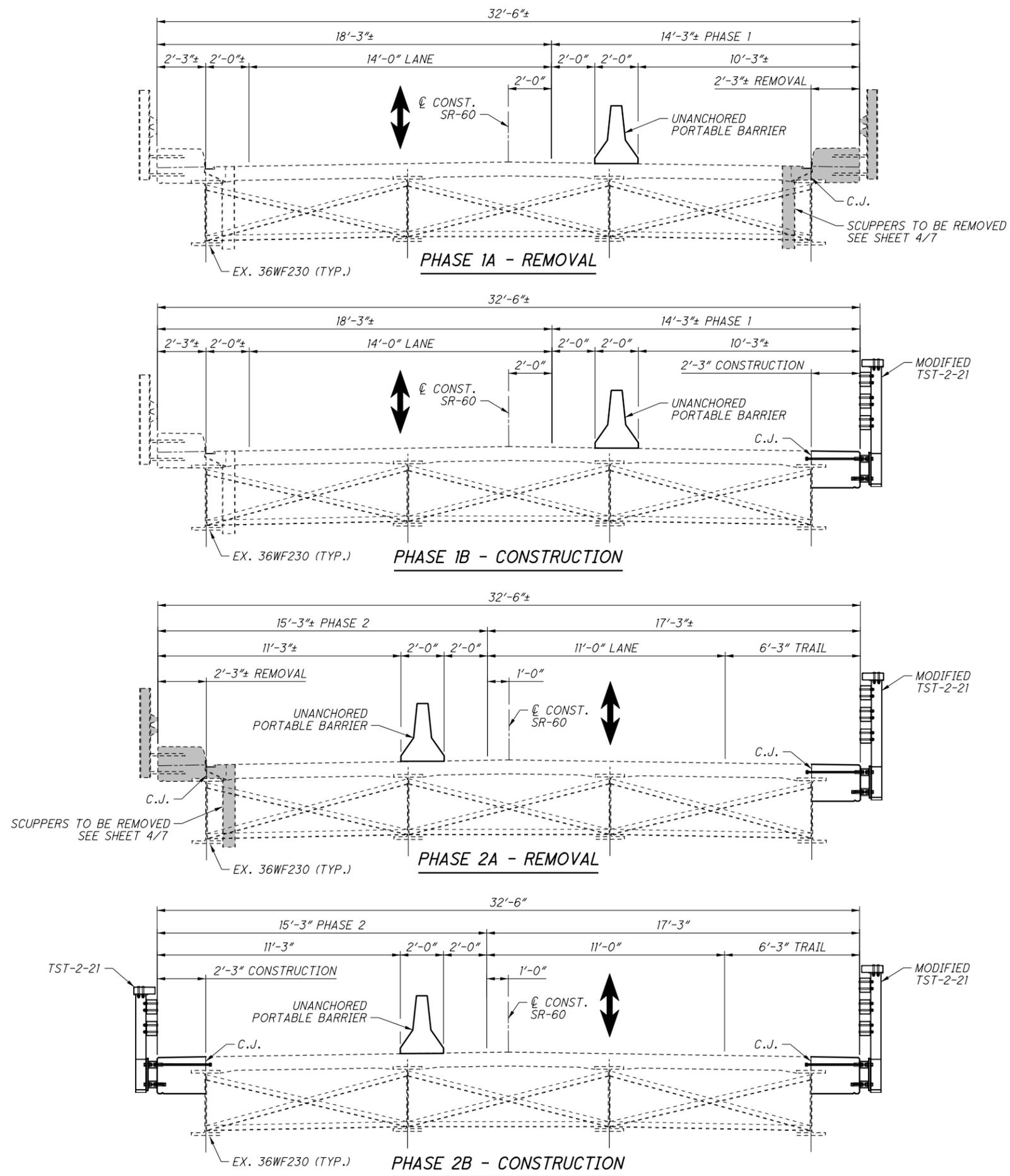
**WOOLPERT**  
DESIGN ENGINEERING & ARCHITECTURE

DATE: 06/2025  
REVIEWED: TML  
DRAWN: JYM  
DESIGNED: JYM  
CHECKED: PES

STRUCTURE FILE NUMBER: 3800725

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**SEQUENCE FOR CONSTRUCTION:**

RECONSTRUCTION OF THE 04.23 STRUCTURE ON SR-60 SHALL BE COMPLETED AS DETAILED. MAINTAINING TRAFFIC DURING CONSTRUCTION RESULTS IN THE PROPOSED WORK BEING COMPLETED IN PHASES. ALL PHASES SHALL BE COMPLETED IN NUMERIC ORDER AND SHALL NOT OCCUR CONCURRENTLY. AN OVERVIEW OF EACH INDIVIDUAL PHASE IS AS FOLLOWS:

**PHASE 1A**

INSTALL TRAFFIC CONTROL AS DETAILED ON THE MAINTENANCE OF TRAFFIC PLANS. AFTER PORTABLE BARRIER IS PLACED AND TRAFFIC CONTROL IS IN OPERATION, REMOVE THE RIGHT DECK EDGE OF THE EXISTING STRUCTURE AS SHOWN.

**PHASE 1B**

CONSTRUCT THE RIGHT DECK EDGE OF THE PROPOSED STRUCTURE AS SHOWN. THIS WORK IS COMPLETED WHILE ONE LANE OF TRAFFIC IS MAINTAINED ON THE EXISTING STRUCTURE USING THE TRAFFIC CONTROL ESTABLISHED IN PHASE 1A.

**PHASE 2A**

SWITCH TRAFFIC CONTROL AS DETAILED ON THE MAINTENANCE OF TRAFFIC PLANS TO MAINTAIN ONE LANE OF TRAFFIC ON THE NEWLY CONSTRUCTED RIGHT PORTION OF THE STRUCTURE. AFTER PORTABLE BARRIER IS PLACED AND TRAFFIC CONTROL IS IN OPERATION, REMOVE THE LEFT DECK EDGE OF THE EXISTING STRUCTURE AS SHOWN.

**PHASE 2B**

CONSTRUCT THE LEFT DECK EDGE OF THE PROPOSED STRUCTURE AS SHOWN, COMPLETING THE PROPOSED WORK. THIS WORK IS COMPLETED WHILE ONE LANE OF TRAFFIC IS MAINTAINED ON THE NEWLY CONSTRUCTED RIGHT PORTION OF THE STRUCTURE USING THE TRAFFIC CONTROL ESTABLISHED IN PHASE 2A. AFTER COMPLETION OF THE WORK, REMOVE THE PORTABLE BARRIERS.

**LEGEND:**

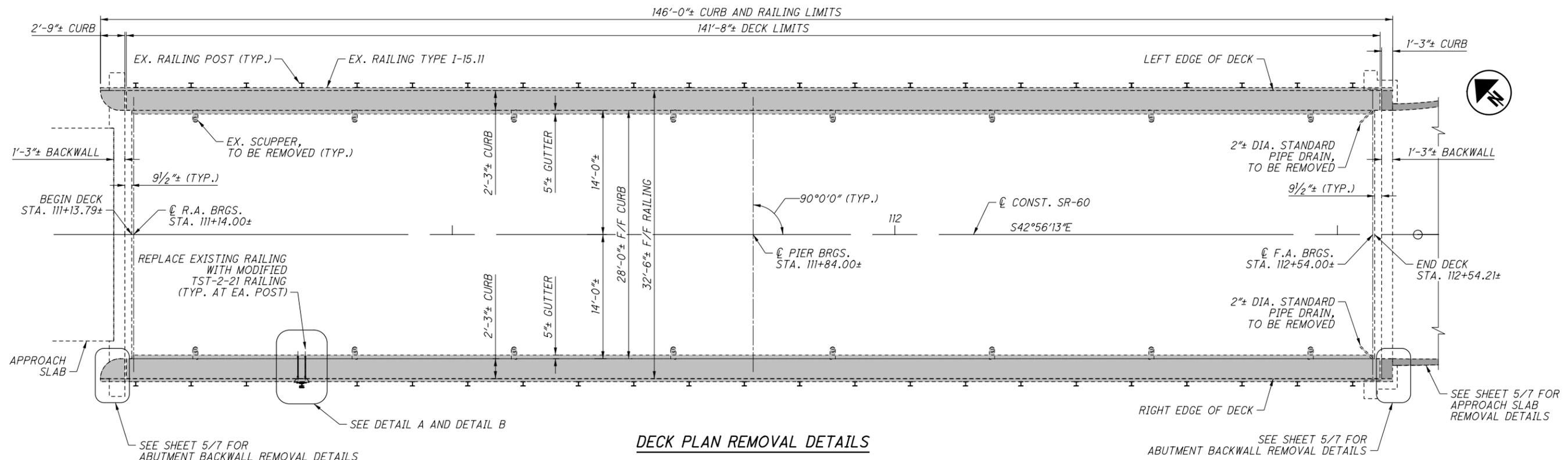


**NOTES:**

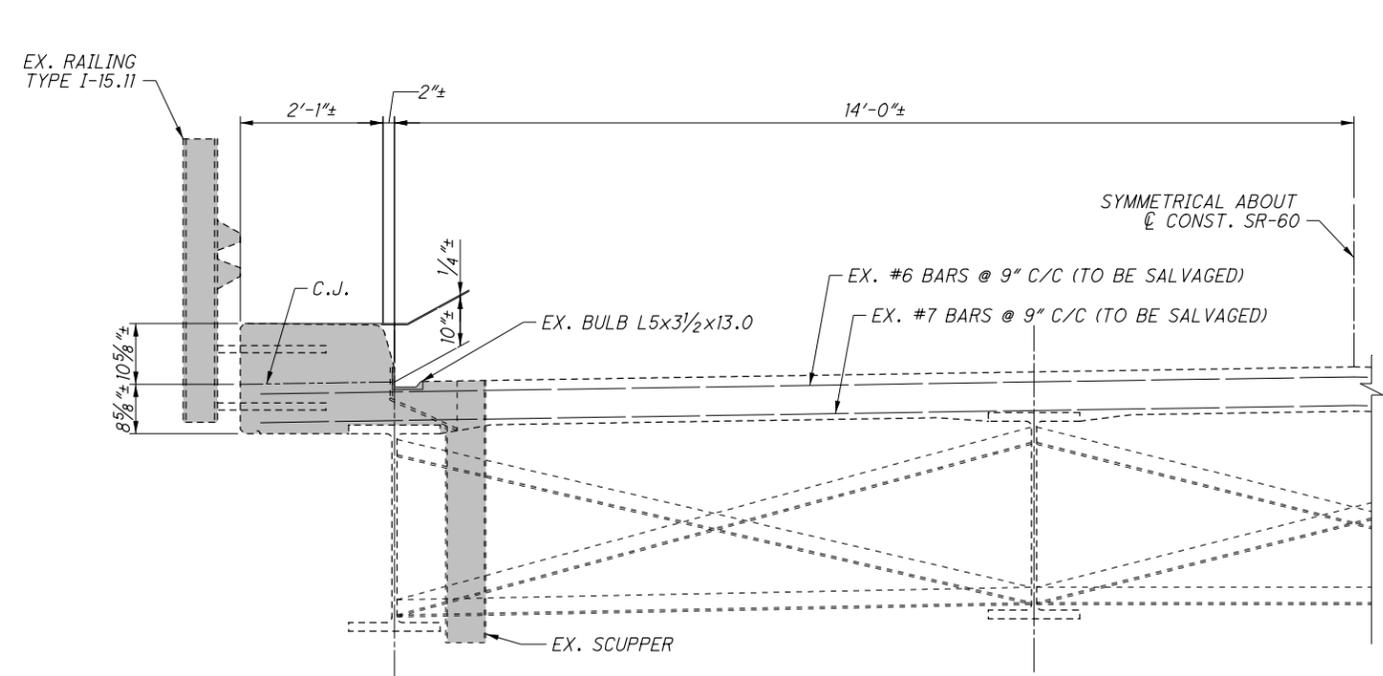
1. SEE SCD PCB-91 FOR ADDITIONAL PORTABLE BARRIER DETAILS.
2. SEE SHEETS 17/133 - 22/133 FOR ADDITIONAL MAINTENANCE OF TRAFFIC DETAILS.
3. PORTABLE BARRIERS PLACED ONTO THE EXISTING DECK DURING PHASE 1 AND PHASE 2 CONSTRUCTION MAY REMAIN UNANCHORED PROVIDED THERE IS A MINIMUM 1'-6" CLEARANCE BETWEEN THE PB AND THE EDGE OF DECK.

DESIGN AGENCY		EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-5225	
DESIGNED	DATE	REVIEWED	FILE NUMBER
JYM	06/2025	TML	3800725
CHECKED		REVISED	
PES			
<b>PHASED CONSTRUCTION DIAGRAMS</b>			
BRIDGE NO. HOL-60-0423 SR-60 OVER KILLBUCK CREEK			
<b>HOL CO. TR. 5C2</b>		<b>PID No. 120806</b>	
3 / 7		129 133	

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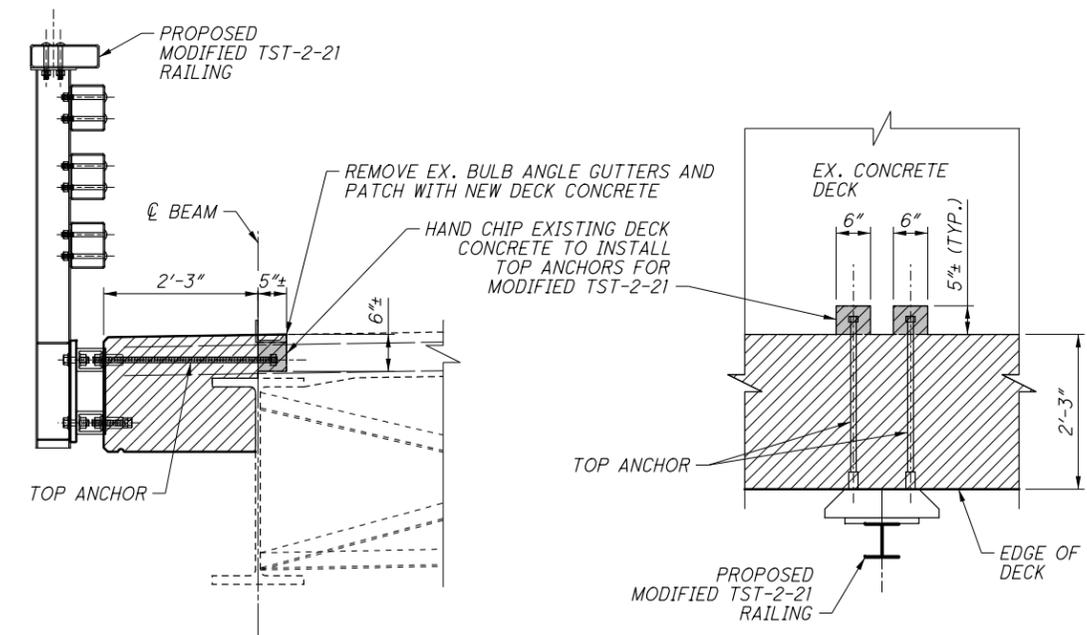
**DECK PLAN REMOVAL DETAILS**



**CURB AND RAILING REMOVAL DETAILS**

**LEGEND:**

- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
- ITEM 511 - CLASS QC2 CONCRETE, SUPERSTRUCTURE



**DETAIL A**

**DETAIL B**

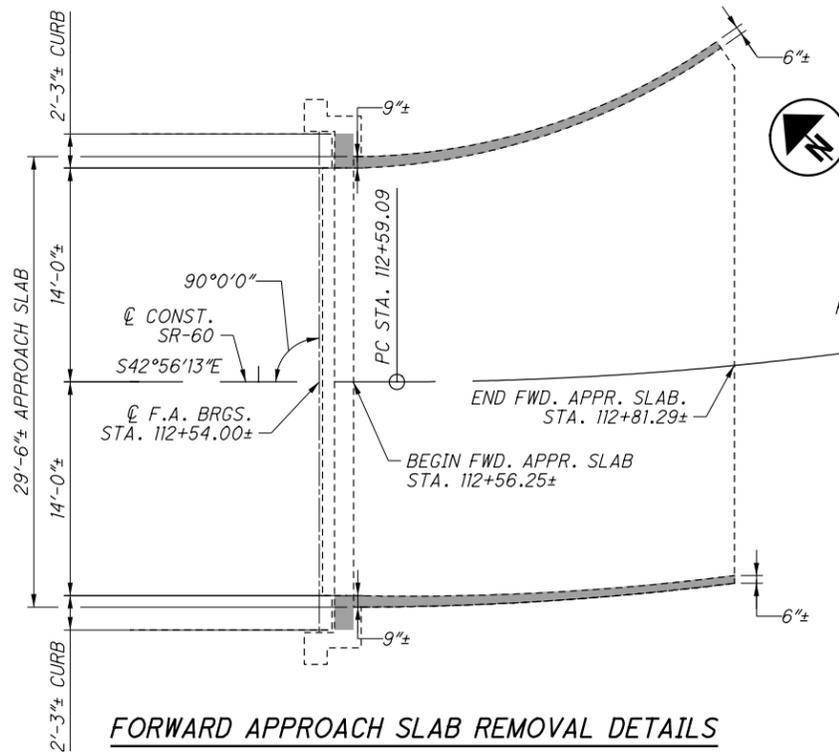
(PLAN VIEW)

**NOTES:**

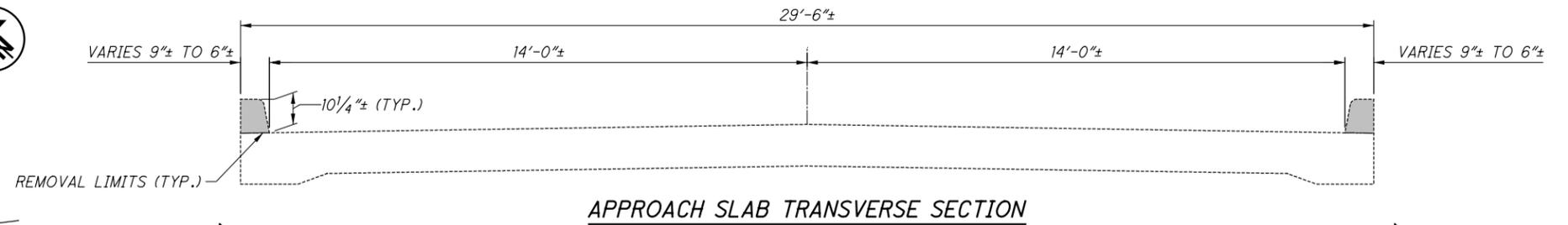
1. SEE SHEET 2/7 FOR STRUCTURE GENERAL NOTES INCLUDING PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.
2. SEE SHEET 5/7 FOR ADDITIONAL REMOVAL DETAILS.
3. SEE SHEET 7/7 FOR ADDITIONAL DECK AND RAILING DETAILS.
4. INTERFACE BETWEEN EXISTING CONCRETE AND NEW CONCRETE SHALL BE CLEAN AND FREE OF LAITANCE PER CMS 512.03.
5. EXISTING REINFORCING STEEL INDICATED TO BE SALVAGED MAY BE REMOVED AND REPLACED WITH DOWELED BARS AT THE SAME SIZE AND SPACING, AT THE CONTRACTOR'S EXPENSE.

<p><b>WOOLPERT</b> DESIGN/CONSTRUCTION/INSPECTION</p>	<p>DESIGN AGENCY: EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225</p>
<p>DATE: 06/2025 REVIEWED: TML DRAWN: JYM DESIGNED: JYM</p>	<p>STRUCTURE FILE NUMBER: 3800725 REVISED: PLS CHECKED: PLS</p>
<p><b>REMOVAL DETAILS</b> BRIDGE NO. HOL-60-0423 SR-60 OVER KILLBUCK CREEK</p>	
<p><b>HOL CO. TR. 5C2</b> PID No. 120806</p>	
<p>4 / 7</p>	
<p>130 133</p>	

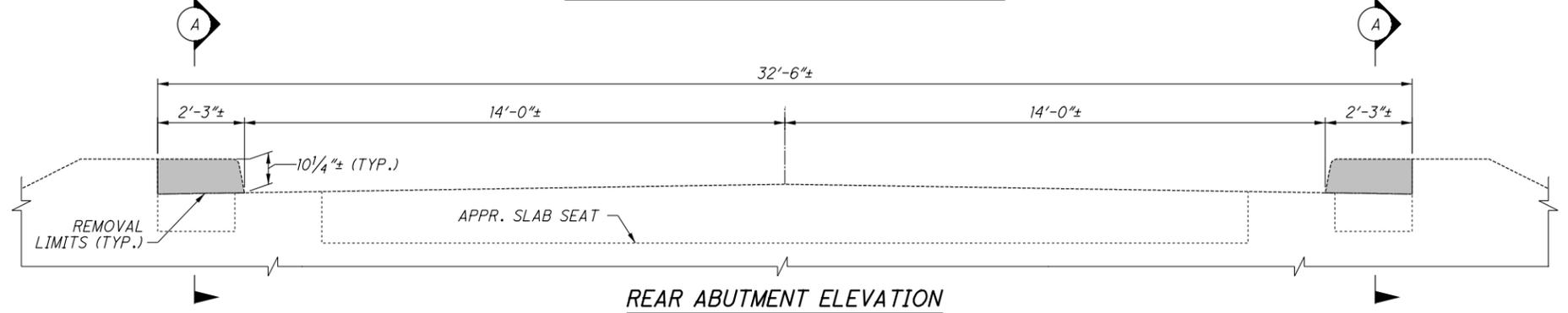
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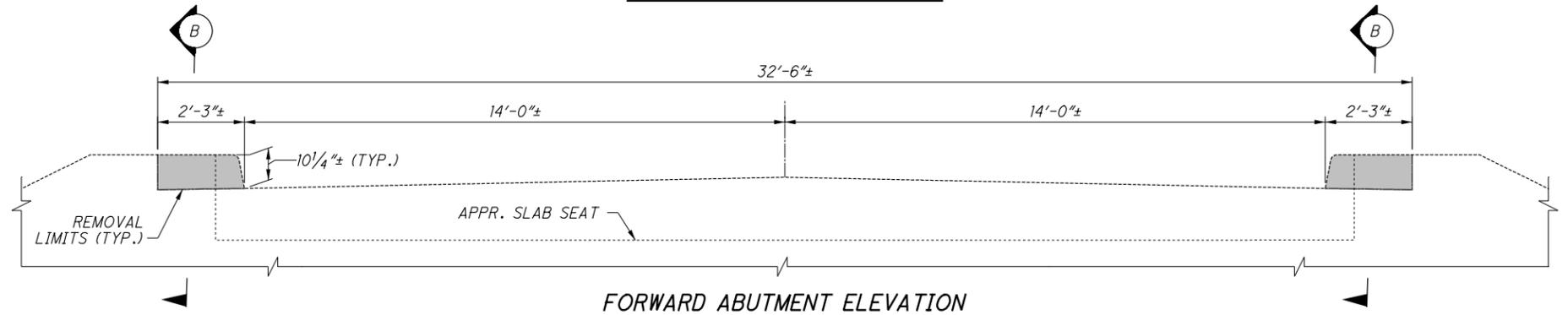
**FORWARD APPROACH SLAB REMOVAL DETAILS**



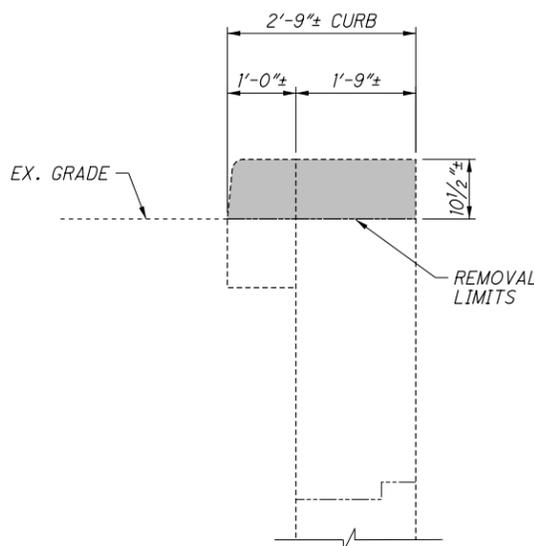
**APPROACH SLAB TRANSVERSE SECTION**



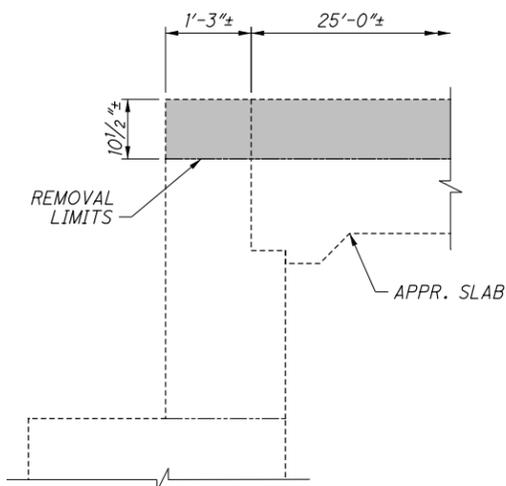
**REAR ABUTMENT ELEVATION**



**FORWARD ABUTMENT ELEVATION**



**SECTION A - R.A. CURB REMOVAL**



**SECTION B - F.A. CURB REMOVAL**

**LEGEND:**

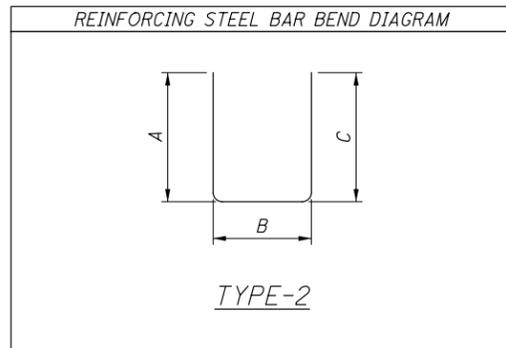
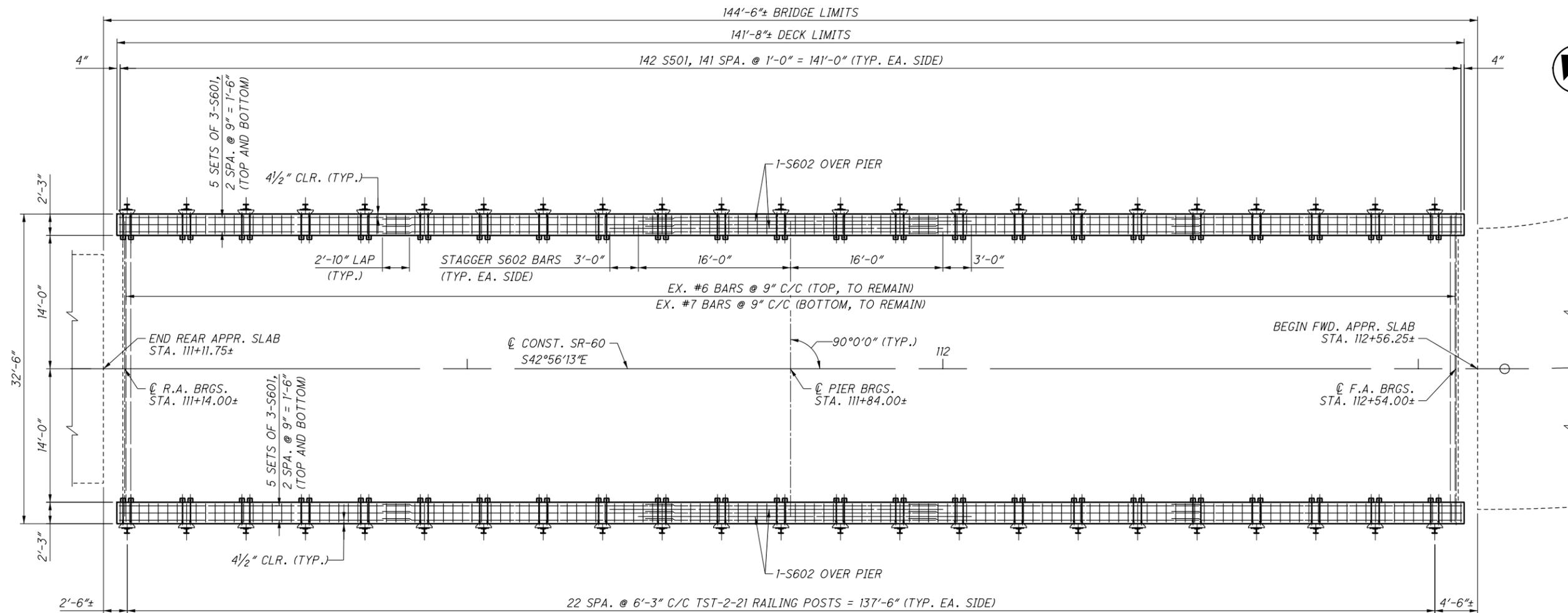
ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

**NOTES:**

1. SEE SHEET 2/7 FOR STRUCTURE GENERAL NOTES INCLUDING PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.
2. SEE SHEET 4/7 FOR ADDITIONAL REMOVAL DETAILS.

	DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-776-8000 F 614-776-6225
REVIEWED TML STRUCTURE FILE NUMBER 3800725	DATE MM/DD/YY
DRAWN JYM REVISIONS	DESIGNED JYM CHECKED PES
<b>REMOVAL DETAILS</b> BRIDGE NO. HOL-60-0423 SR-60 OVER KILLBUCK CREEK	
<b>HOL CO. TR. 5C2</b> PID No. 120806	5 / 7 131 133

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**DECK REINFORCING PLAN**

SUPERSTRUCTURE											
BAR MARK	MAT'RL TYPE	TOTAL	LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS					
						A	B	C	D	E	R
S601	ECSR	70	30'-4"	3190	ST.						
S602	ECSR	4	35'-0"	211	ST.						
S603	ECSR	376	4'-10"	2730	2	1'-11"	1'-4"	1'-11"			
TOTAL =				6131	LBS						

**NOTES:**

- SEE SHEET 4/7 AND 5/7 FOR REMOVAL DETAILS.
- SEE SHEET 7/7 FOR TRANSVERSE SECTION.
- PLACE S501 BARS TO AVOID CONFLICT WITH TST RAILING ANCHORS.
- THE BAR SIZE NUMBER IS SPECIFIED IN THE BAR MARK COLUMN. THE FIRST DIGIT AFTER THE LETTERS WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS AFTER THE LETTERS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, S601 IS A NO. 6 BAR IN THE SUPERSTRUCTURE. A LEGEND OF THE DESCRIPTORS IS GIVEN BELOW:  
  
S = SUPERSTRUCTURE
- BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE NOTED.
- "ST." INDICATES A STRAIGHT BAR.
- MATERIALS LEGEND, ECSR = EPOXY COATED STEEL REINFORCEMENT.

DESIGN AGENCY: EASTON OVAL  
 SUITE 400  
 COLUMBUS, OH 43219  
 T 614-776-8000  
 F 614-776-5225

**WOOLPERT**  
 DESIGN ENGINEERING & ARCHITECTURE

DATE: 06/2025  
 REVIEWED: TML  
 DRAWN: JYM  
 DESIGNED: JYM  
 CHECKED: PES

STRUCTURE FILE NUMBER: 3800725

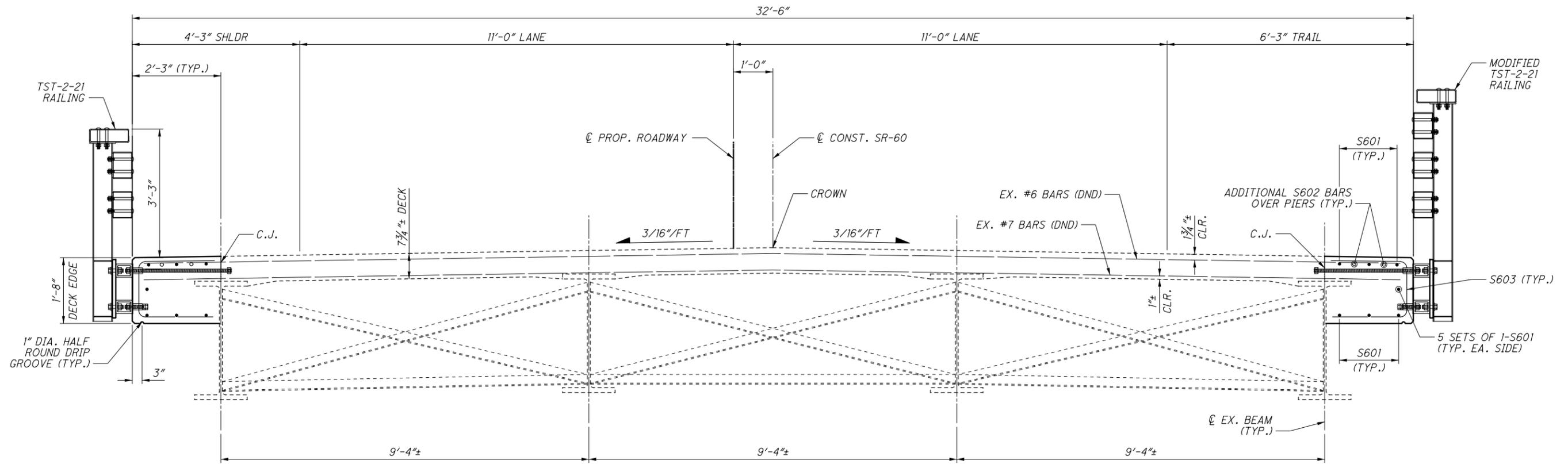
**DECK REINFORCING PLAN**  
 BRIDGE NO. HOL-60-0423  
 SR-60 OVER KILLBUCK CREEK

HOL CO. TR. 5C2  
 PID No. 120806

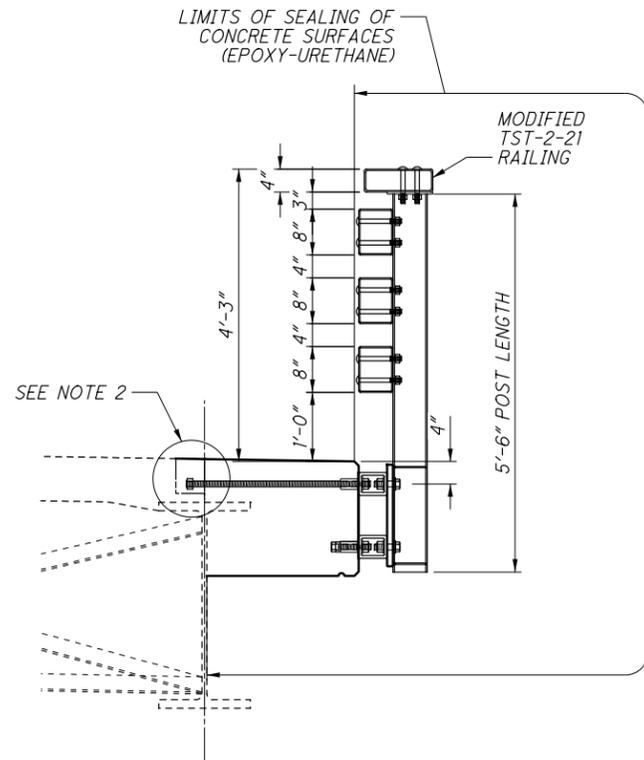
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**TRANSVERSE SECTION**



**RAILING DETAILS AND SEALING LIMITS**

**NOTES:**

1. SEE SCD TST-2-21 FOR ADDITIONAL RAILING DETAILS.
2. SEE SHEET 2/7 FOR ADDITIONAL DETAILS ON RAILING (THREE STEEL TUBE BRIDGE RAILING), AS PER PLAN.
3. SEE SHEET 4/7 FOR TOP ANCHOR INSTALLATION DETAILS.

<p><b>HOL CO. TR. 5C2</b> PID No. 120806</p>	<p><b>TRANSVERSE SECTION</b> BRIDGE NO. HOL-60-0423 SR-60 OVER KILLBUCK CREEK</p>	<p>DESIGNED JYM CHECKED PES</p>	<p>DRAWN JYM REVISED</p>	<p>REVIEWED TML STRUCTURE FILE NUMBER 3800725</p>	<p>DATE 06/2025</p>	<p>DESIGN AGENCY EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-476-8000 F 614-476-6225 <b>WOOLPERT</b> CONSTRUCTION MANAGEMENT</p>
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