

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

TRIMBELLE - STH 35

STH 35 TO USH 10 CTH O PIERCE COUNTY

> STATE PROJECT NUMBER 7894-03-71

R 18 W R 19 W T 26 N END PROJECT STA 546+31.41 T 25 N

CORPORATE LIMITS

(Box or Pipe)

MARSH AREA

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

1////// PROPERTY LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT

= 300

= N/A

= N/A = N/A

= N/A

= 45 MPH

--1=+-

Typical Sections and Details

Estimate of Quantities

MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

PROFILE

GRADE LINE ORIGINAL GROUND _ ROCK _ _ LABEL___

BEGIN PROJECT

STA 100+29.58

7894-03-71

Y = 457632.3318

X = 279267.9389

H 6 Ø

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 8.447 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS). PIERCE COUNTY.

ORIGINAL PLANS PREPARED BY: CBS SQUARED INC. JOHN W. BECKFIELD STATE OF WISCONSIN

ACCEPTED FOR

COUNTY of

FEDERAL PROJECT

CONTRACT

1

PROJECT

WISC 2017176

STATE PROJECT

7894-03-71

DEPARTMENT OF TRANSPORTATION PREPARED BY

Designer

CBS SQUARED INC CBS SQUARED INC Knight E/A

DATE: 10/27/16

CE	COMMERCIAL ENTRANCE	NC	NORMAL CROWN
CL OR C∕L OR €	CENTER LINE	PAVT	PAVEMENT
	CENTRAL ANGLE OR DELTA	PE	PRIVATE ENTRANC
DWY	DRIVEWAY	R	RADIUS
EOR	END POINT OF RADIUS	R/W	RIGHT-OF-WAY
ENT	ENTRANCE	RDWY	ROADWAY
FE	FIELD ENTRANCE	R/L OR R	REFERENCE LINE
FO	FIBER OPTIC	TYP	TYPICAL
CWT	HUNDREDWEIGHT	VAR	VARIABLE
IP	IRON PIPE OR PIN	VC	VERTICAL CURVE
L	LENGTH OF CURVE	TV	CABLE TV
SY	SQUARE YARD	OH	OVERHEAD LINE
CY	CUBIC YARD	Т	TELEPHONE
		E	ELECTRICAL

CONTROL POINT TABLE							
NAME	Υ	Х	Z	DESC			
DN7021	304198.352	465257.0079	1045.4109	HARN			
DL4232	273644.6462	464786.9779	718.8062	HARN			
CP1	280810.9611	458615.4371	724.6519	3/4 IN REBAR			
CP2	281210.5024	458539.9755	721.7388	3/4 IN REBAR			
CP3	282794.9266	457459.719	747.0947	3/4 IN REBAR			
CP4	283724.776	457336.4575	730.0095	3/4 IN REBAR			
CP5	284626.3685	457071.3758	719.708	3/4 IN REBAR			
CP6	285786.6358	455973.0738	727.9779	3/4 IN REBAR			
CP7	286826.6456	455819.8338	730.7729	3/4 IN REBAR			
CP8	288720.7241	455552.2339	730.3078	3/4 IN REBAR			
CP9	279545.4981	457858.492	725.085	3/4 IN REBAR			
CP10	289961.3844	455245.0429	738.8221	3/4 IN REBAR			
CP11	290382.216	455055.9176	747.7601	3/4 IN REBAR			
CP12	291707.8871	455022.7039	752.7265	3/4 IN REBAR			
CP13	292651.7372	455172.7473	759.8995	3/4 IN REBAR			
CP14	293554.9929	455807.7382	751.0164	3/4 IN REBAR			
CP15	297459.7039	455943.0001	780.526	3/4 IN REBAR			
CP16	292651.7372	455172.7473	759.8995	3/4 IN REBAR			
CP17	296532.1528	455644.3973	774.3032	3/4 IN REBAR			
CP18	296391.1493	455645.3567	772.6774	3/4 IN REBAR			
CP19	296391.1493	455645.3567	772.6774	3/4 IN REBAR			
CP20	297459.7039	455943.0001	780.526	3/4 IN REBAR			
CP21	300291.6952	456239.7144	789.3619	3/4 IN REBAR			
CP22	300660.9028	456793.7281	789.5561	3/4 IN REBAR			
CP23	302484.8661	458817.9731	813.851	3/4 IN REBAR			
CP24	303495.0877	458720.3129	843.6413	3/4 IN REBAR			
CP25	300291.6952	456239.7144	789.3619	3/4 IN REBAR			
CP26	300660.9028	456793.7281	789.5561	3/4 IN REBAR			
CP27	302484.8661	458817.9731	813.851	3/4 IN REBAR			
CP28	303495.0877	458720.3129	843.6413	3/4 IN REBAR			
CP29	304014.9296	458684.9674	819.7483	3/4 IN REBAR			
CP30	304806.9732	458859.5276	823.3098	3/4 IN REBAR			
CP31	307079.8863	459377.6346	837.5386	3/4 IN REBAR			
CP32	307434.2785	459524.3271	838.9689	3/4 IN REBAR			
CP33	308883.7246	459028.3847	848.6578	3/4 IN REBAR			
CP34	310212.8789	459607.342	852.1328	3/4 IN REBAR			
CP35	302857.0525	458741.0212	819.8225	3/4 IN REBAR			
CP36	302857.0525	458741.0212	819.798	3/4 IN REBAR			

	CONTROL POINT TABLE (CONT)						
NAME	Υ	Х	Z	DESC			
CP37	310429.0079	459814.247	852.3141	3/4 IN REBAR			
CP38	310429.0079	459814.247	852.3141	3/4 IN REBAR			
CP39	310212.8789	459607.342	852.1083	3/4 IN REBAR			
CP40	312472.8271	460751.5451	869.9194	3/4 IN REBAR			
CP41	312567.1456	460159.4538	867.2922	3/4 IN REBAR			
CP42	316260.1074	458910.4511	888.1525	3/4 IN REBAR			
CP43	317079.6817	458844.8963	887.2969	3/4 IN REBAR			
CP44	317282.6277	458526.806	901.2224	3/4 IN REBAR			

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGER'S HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

BEARINGS SHOWN ON THE PLANS ARE GRID BEARINGS TO THE NEAREST SECOND.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

ALIGNMENT WAS BASED ON CENTERLINE SHOTS, IF ADJUSTMENTS TO THE ALIGNMENT ARE NEEDED IN THE FIELD, THE ADJUSTMENTS WILL BE APPROVED BY THE ENGINEER. ADJUSTMENTS SHALL BE INCIDENTAL TO THE PROJECT.

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

VERTICAL REFERENCE DATUM IS GEOID12a - NAV88 (2011) ADJUSTMENT.

EXISTING RIGHT OF WAY IS BASED OFF OF CLARK COUNTY GIS. CONTRACTOR SHALL FIELD VERIFY EXACT LIMITS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.

NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

UTILITY CONTACTS

PIERCE PEPIN COOPERATIVE SERVICES W7725 USH 10 ELLSWORTH, WI 54011
TELEPHONE: 715.273.2473
ATTENTION: BRAD RISTOW EMAIL: BRISTOW@PIERCEPEPIN.COM

BEVCOMM BEVCOMM W8108 165TH AVE PO BOX 125 HAGER CITY, WI 54014 TELEPHONE: 715.792.2103 ATTENTION: CHAD WHITCOME EMAIL: CWHITCOMB@BEVCOMM.COM

XCEL ENERGY 1201 LIVINGSTONE RD HUDSON, WI 54016 TELEPHONE: 715.377.1810 ATTENTION: BRIAN MELLO EMAIL: BRIAN.M.MELLO@XCELENERGY.COM

KOCH PIPELINE COMPANY LP 6483 85TH ST SOUTH COTTAGE GROVE, MN 55016 TELEPHONE: 612.655.2554 ATTENTION: TIM SNYDER

EMAIL: TIMOTHY.SNYDER@KOCHPIPELINE.COM



		HYDROLIC SOIL GROUP														
		A	١			E	3			C	;)	
		SLOPE (PERC	RANGE ENT)			SLOPE RANGE (PERCENT)				SLOPE (PERC			SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & C	VER	0-2	2-6	6 & O	VER	0-2	2-6	6 & 0	OVER	0-2	2-6	6 & C	OVER
ROW CROPS	.08 .22	.16 .30	.22	.38	.12 .26	.20 .34	.27		.15 .30	.24 .37	.33	.50	.19 .34	.28 .41	.38	.56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24	.30	.19 .25	.22 .28	.20		.20 .26	.23 .30	.30	.37	.20 .27	.25 .32	.30	.40
SIDE SLOPE-TURF			.25	.32			.27	.34			.28	.36			.30	.38
PAVEMENT:	•	'														
ASPHALT							.70	.95								
CONCRETE							.80	.95								
BRICK					.70	.80										
DRIVES, WALKS					.75	85										
ROOFS					.75	.95										
GRAVEL ROADS, SHOULDERS			.40	.60												

TOTAL PROJECT AREA = 71.7 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.8 ACRES

WISCONSIN DNR LIASON

DEPARTMENT OF NATURAL RESOURCES WEST CENTRAL REGION 1300 W CLAIREMONT AVE EAU CLAIRE, WI 54702 715 839 1609 CHRISTOPHERJ. WILLGER@WISCONSIN.GOV

DESIGN CONTACTS

CBS SQUARED INC. 770 TECHNOLOGY WAY CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.861.5226 ATTENTION: JOHN BECKFIELD, PE

CHAD JOHNSON, PE PIERCE COUNTY HIGHWAY DEPARTMENT 612 CAIRNS ST ELLSWORTH, WI 54486 715.273.5096 CHAD.JOHNSON@CO.PIERCE.WI.US

PROJECT NO: 7894-03-71

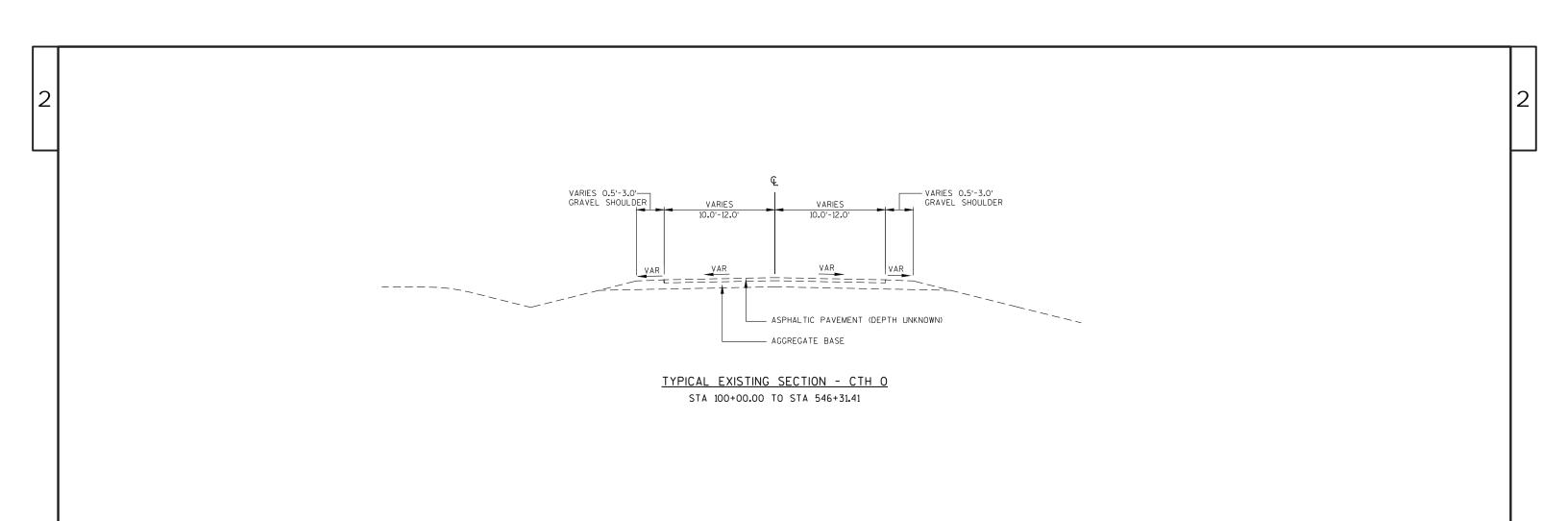
HWY: CTH O

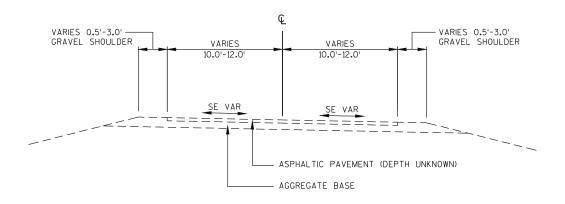
COUNTY: PIERCE

GENERAL NOTES

SHEET

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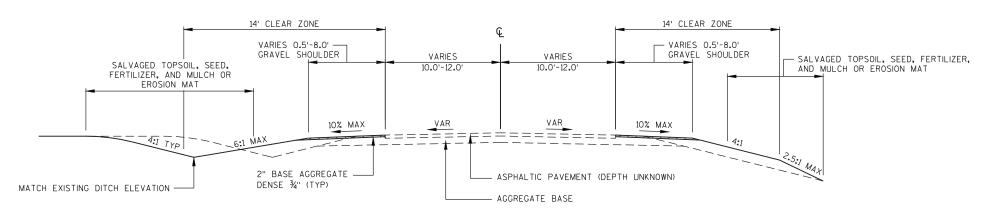




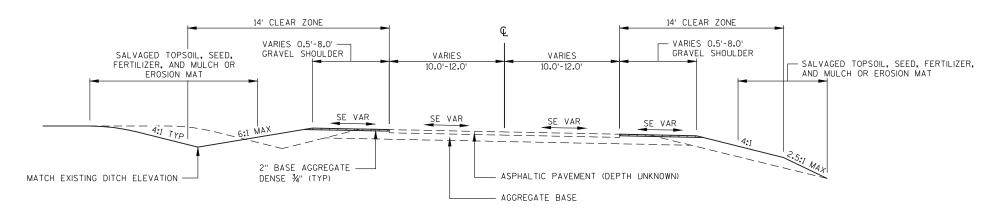
TYPICAL SUPERELEVATED EXISTING SECTION - CTH O

PROJECT NO: 7894-03-71 HWY: CTH O COUNTY: PIERCE TYPICAL SECTIONS SHEET E

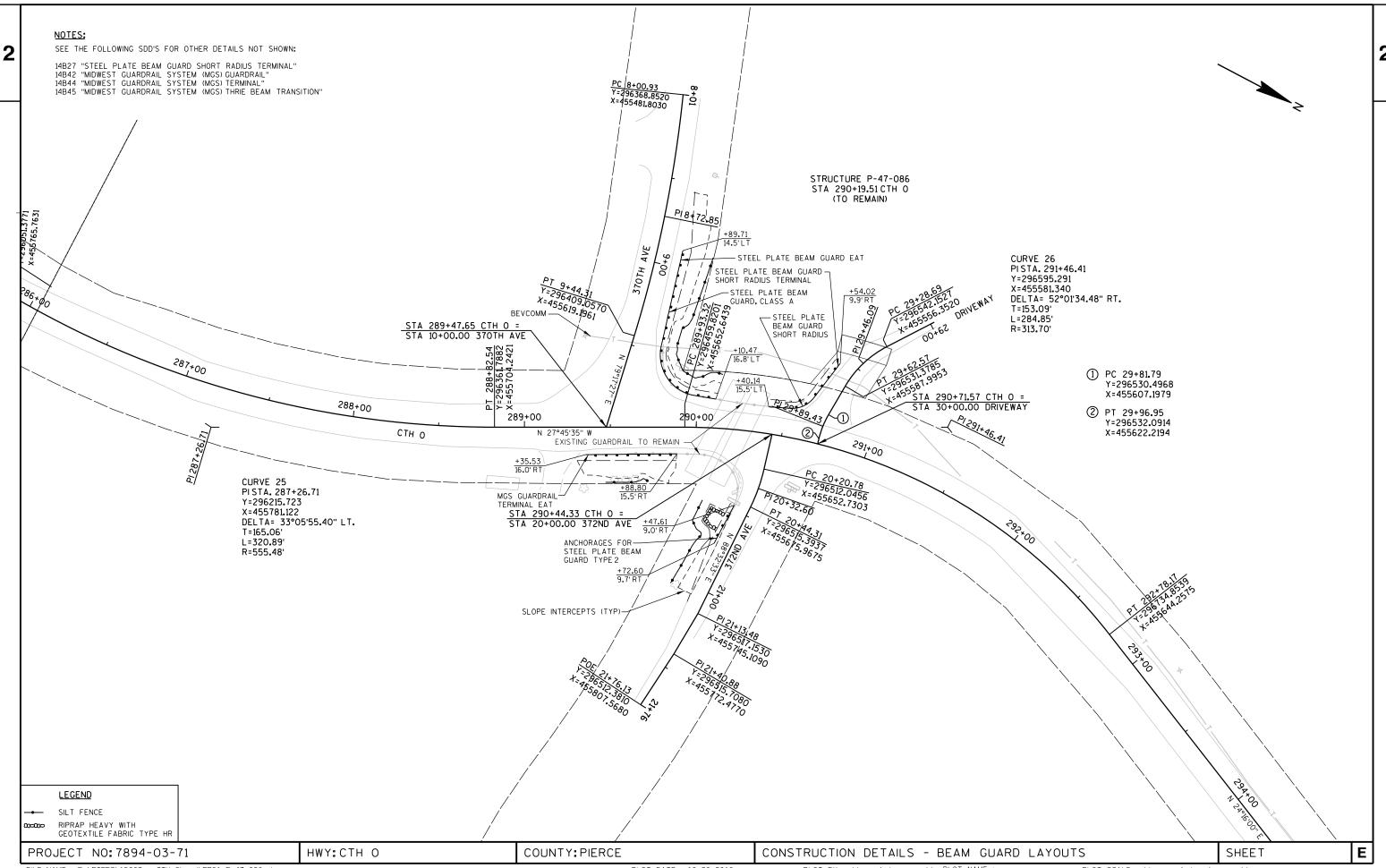


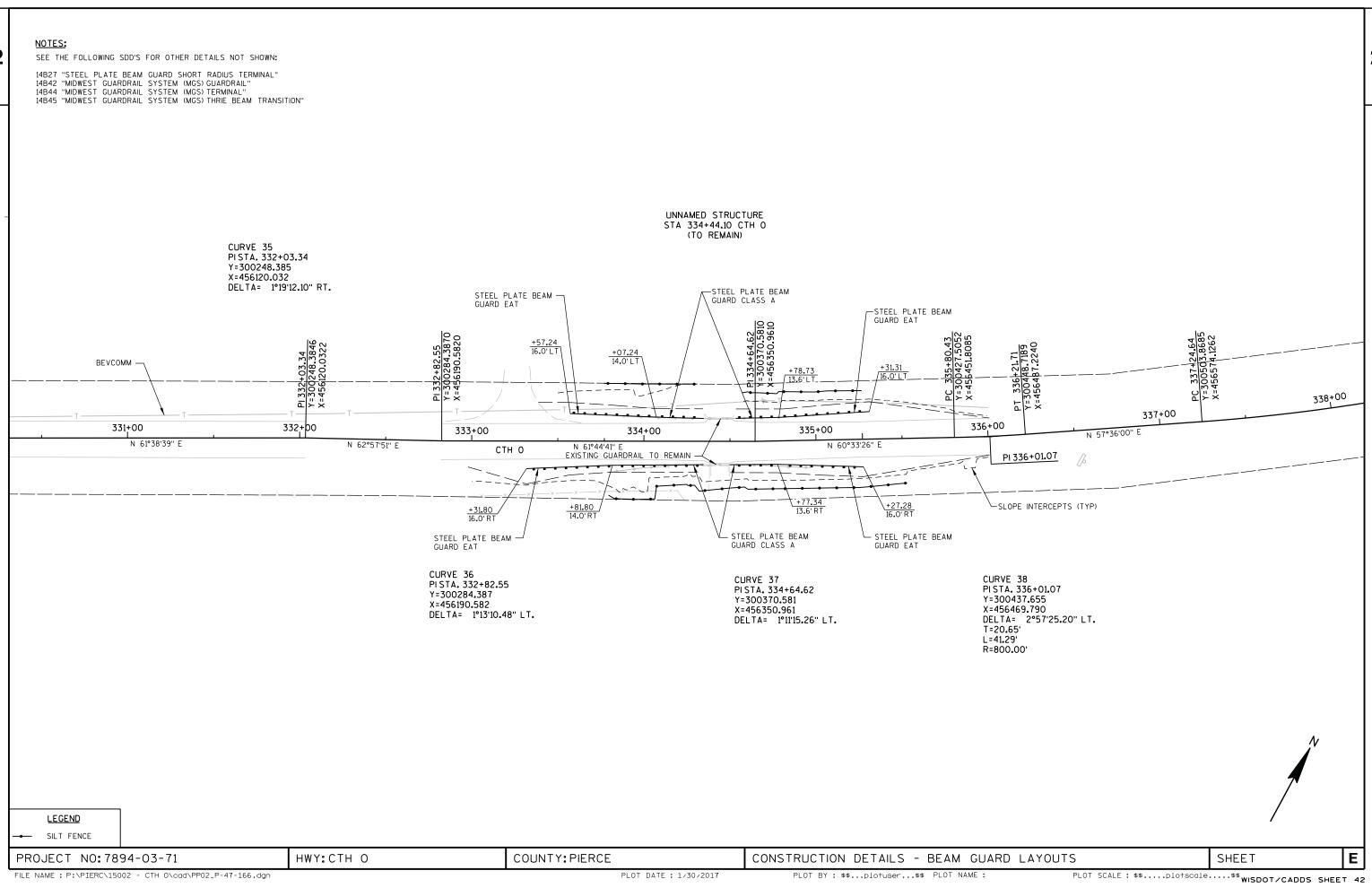


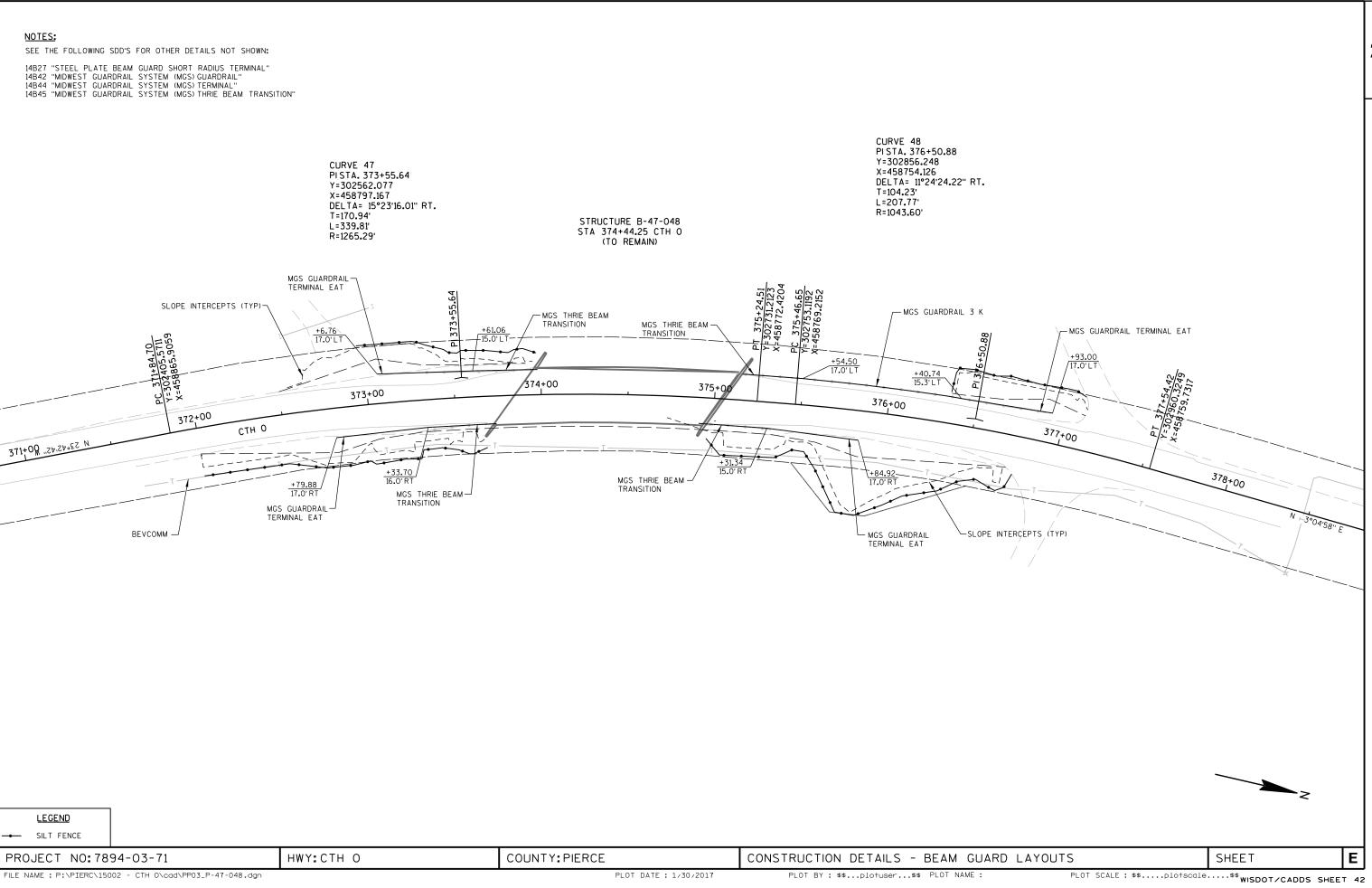
<u>TYPICAL FINISHED SECTION - CTH 0</u> STA 100+00.00 TO STA 546+31.41

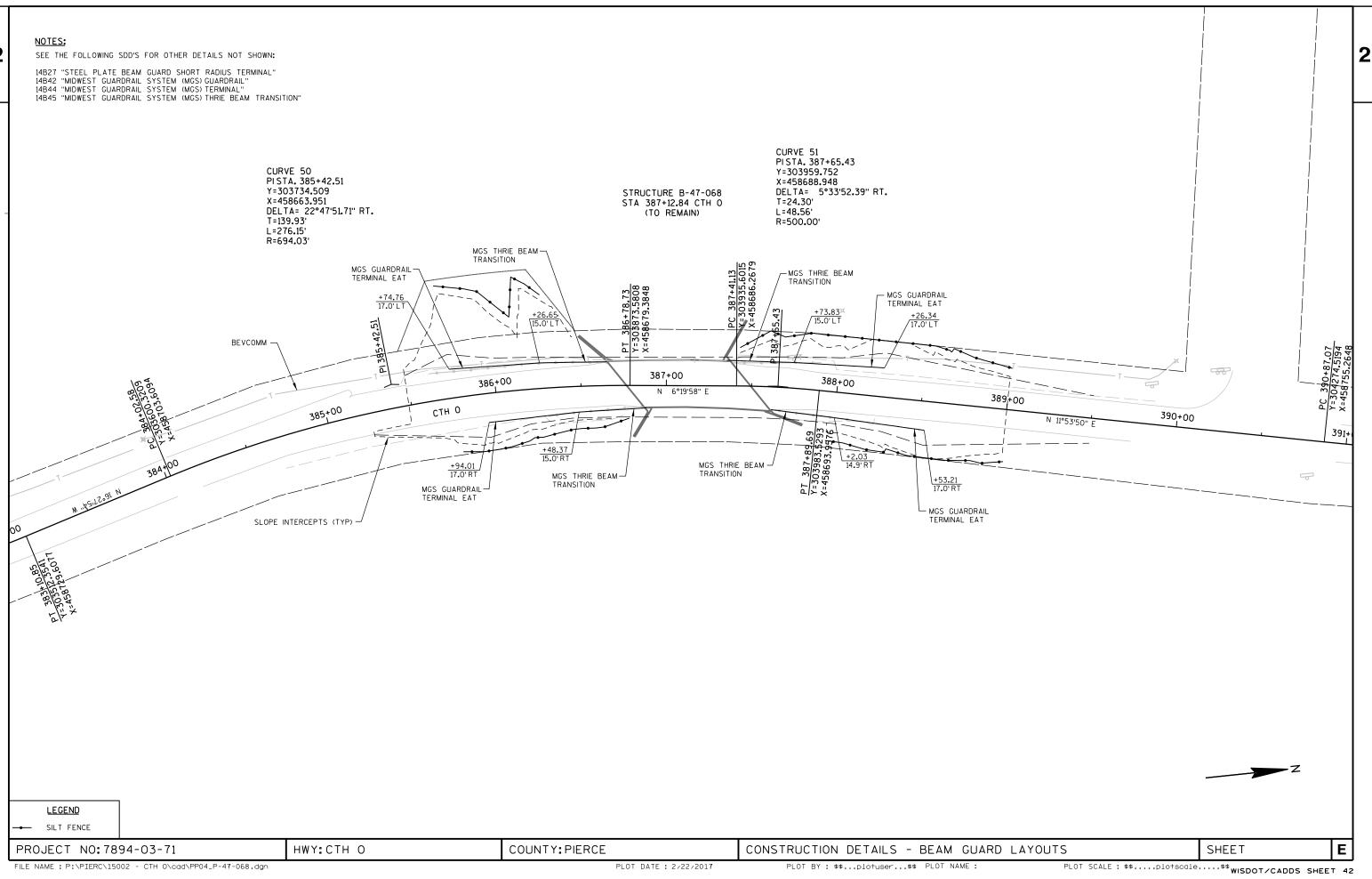


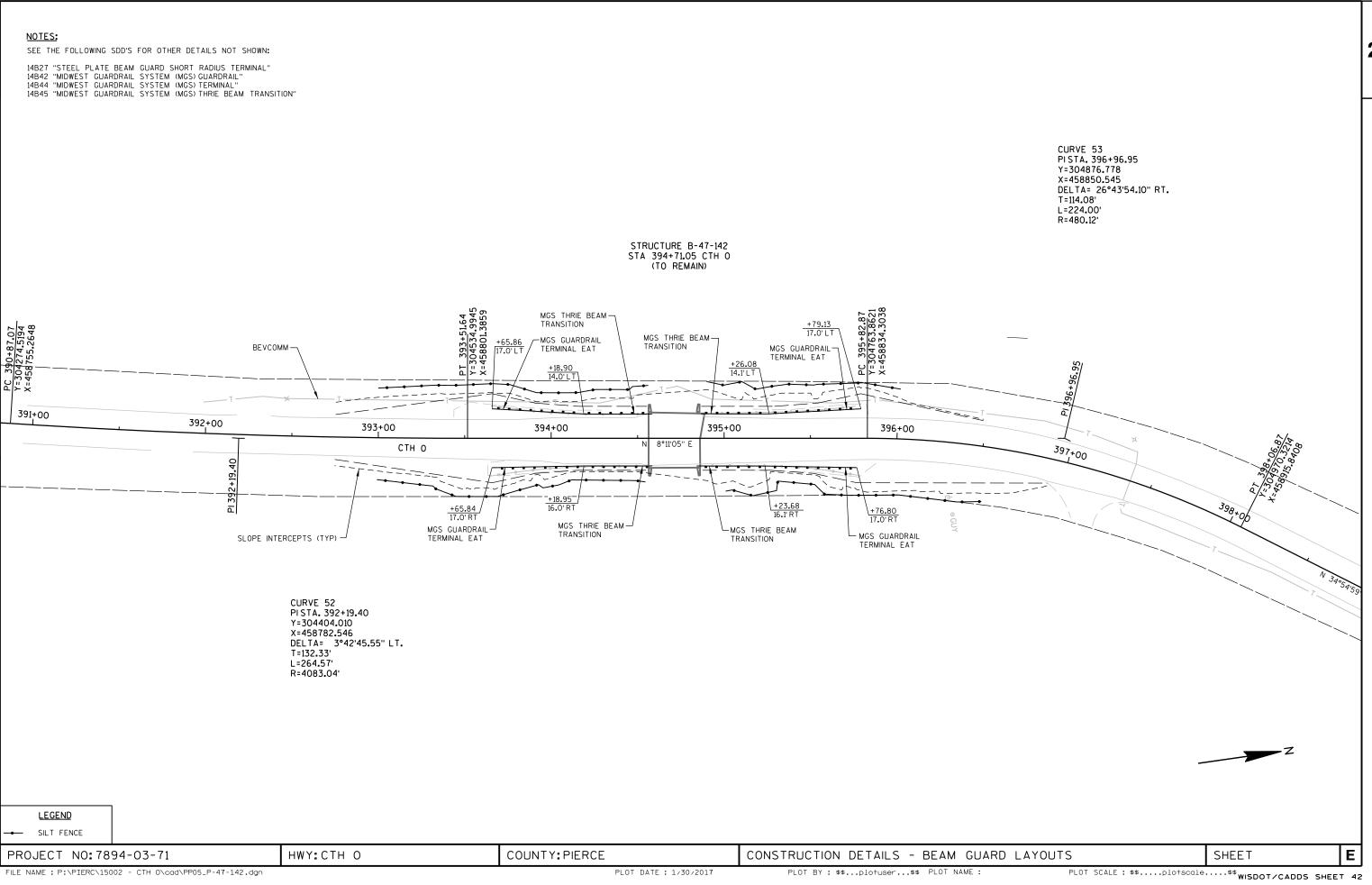
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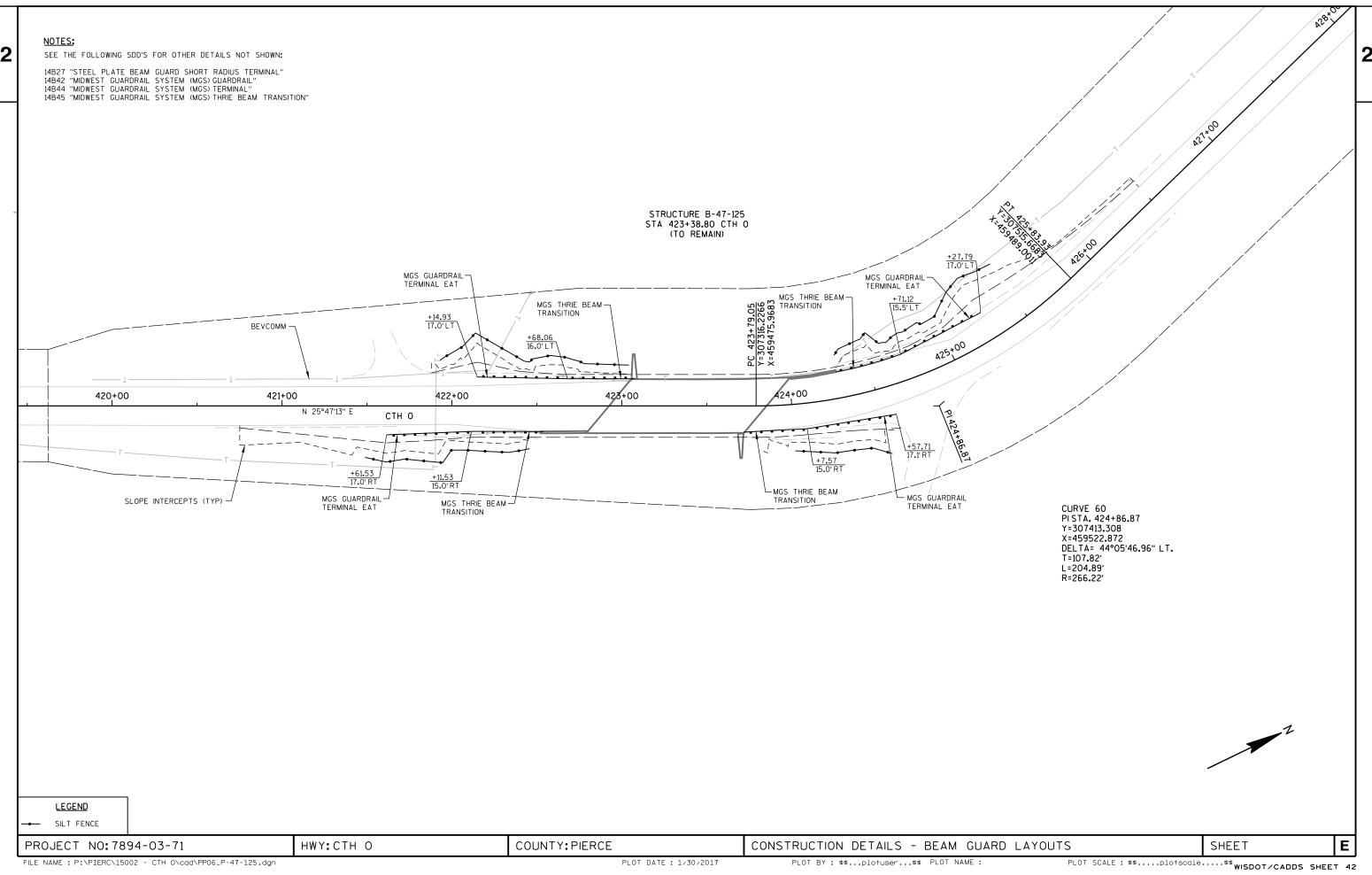


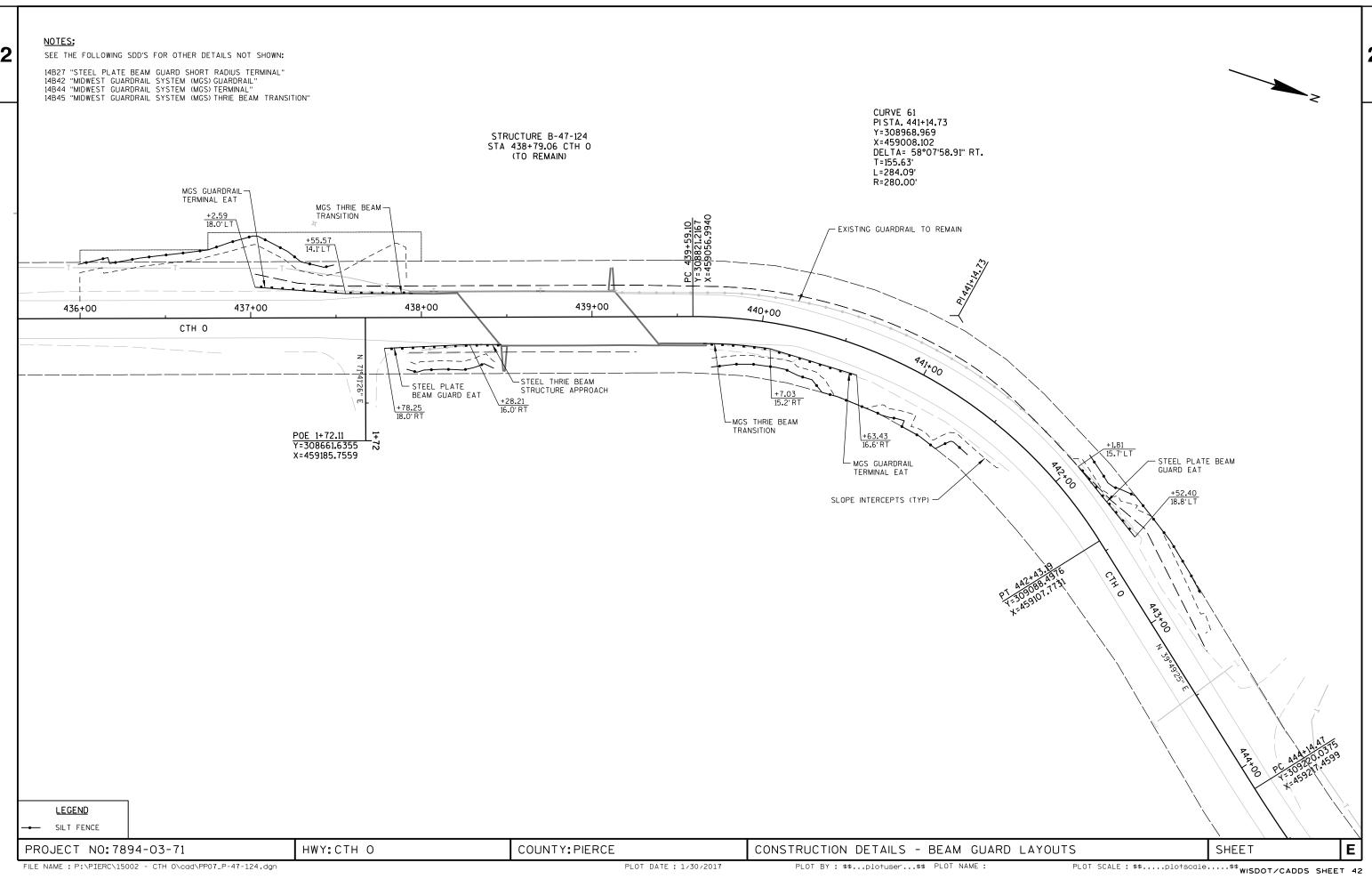


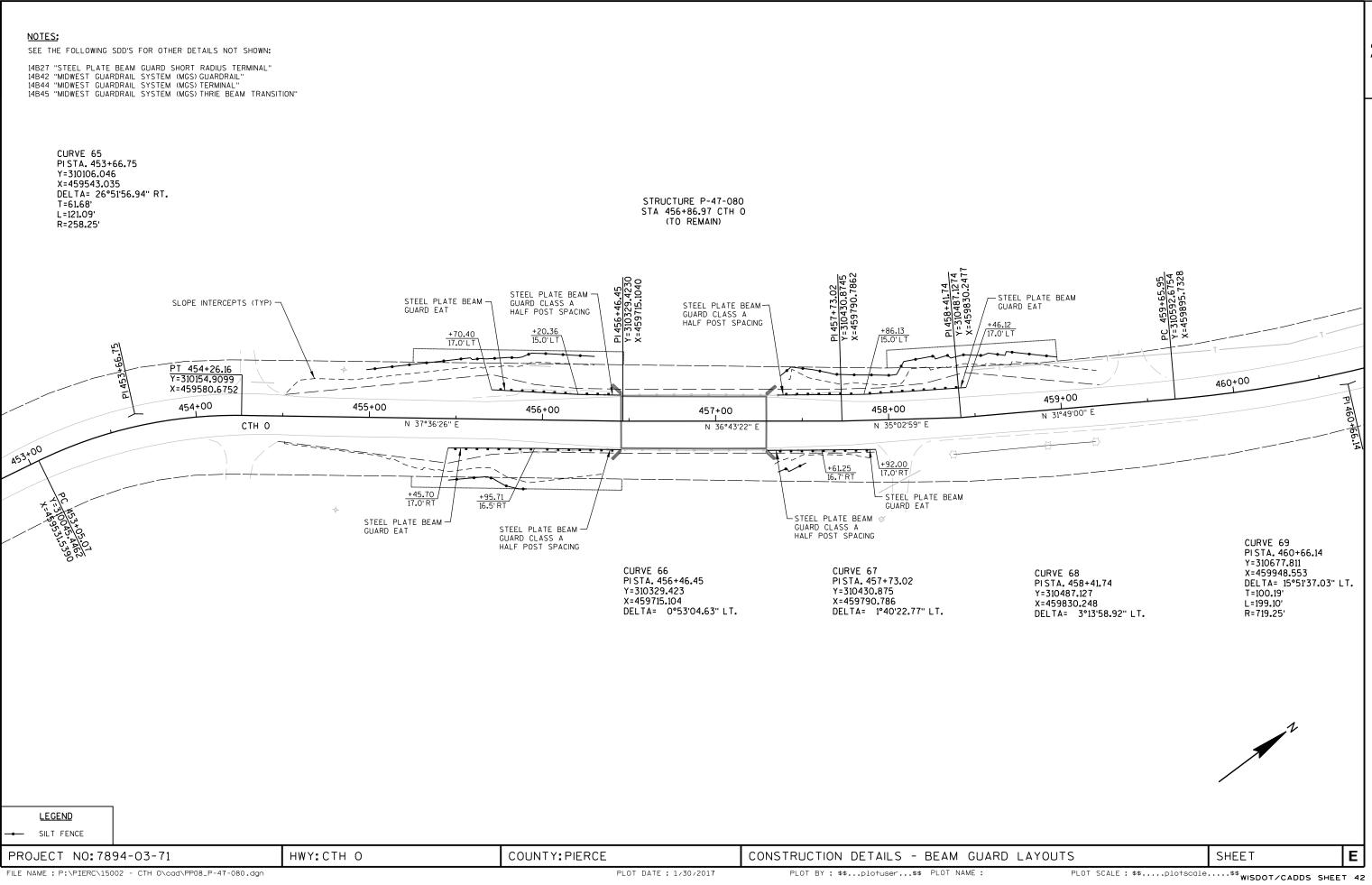


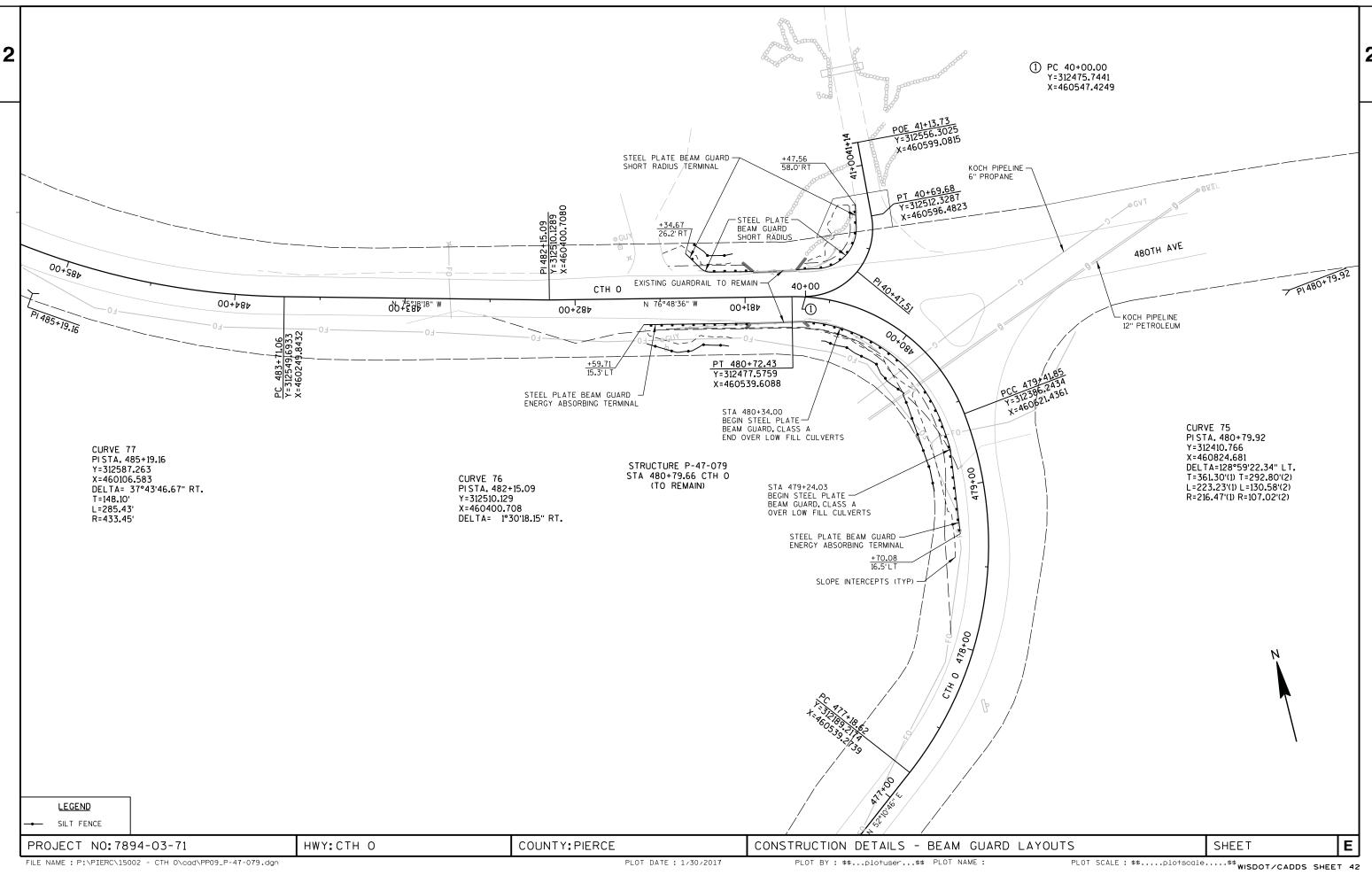


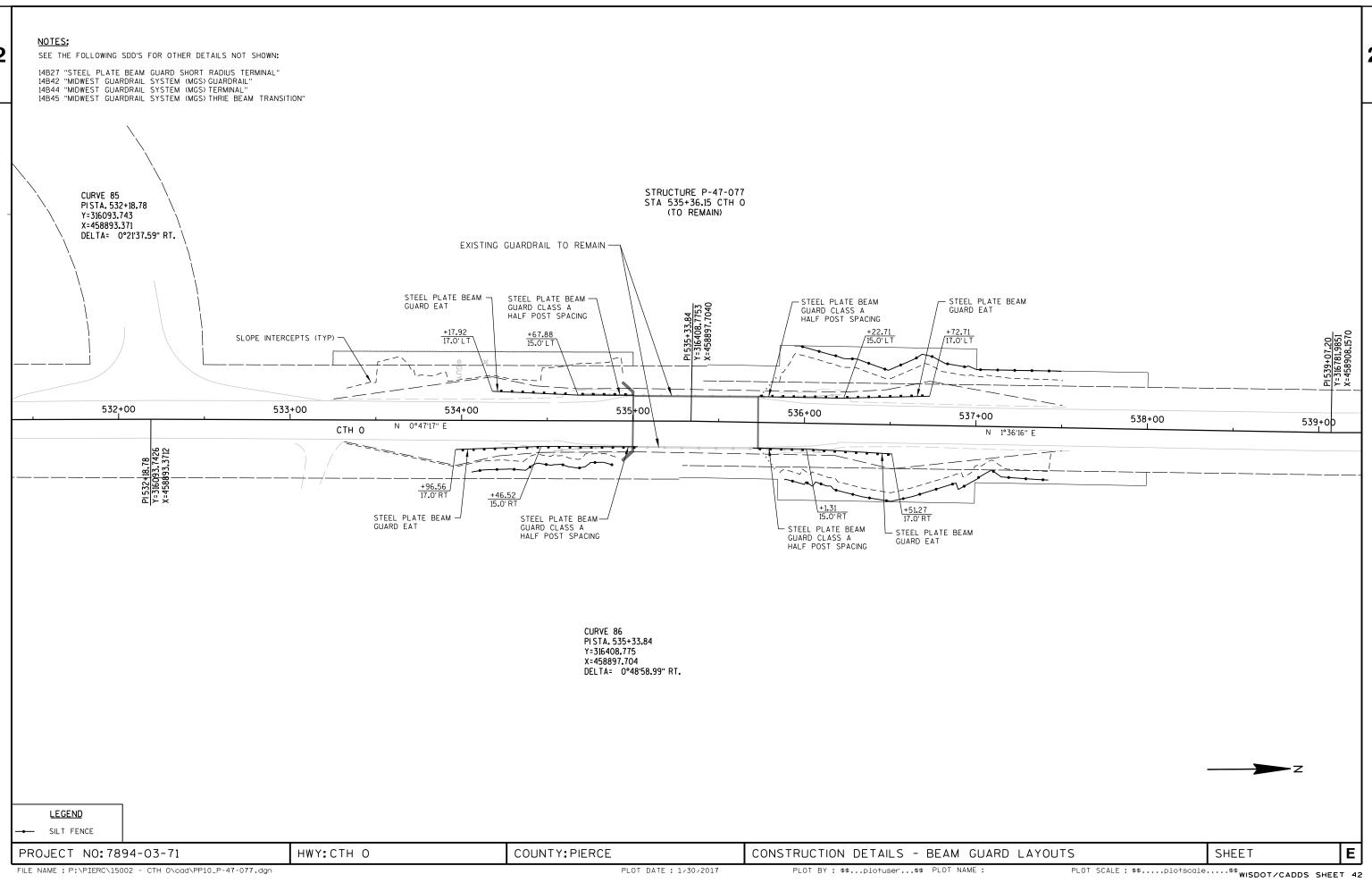


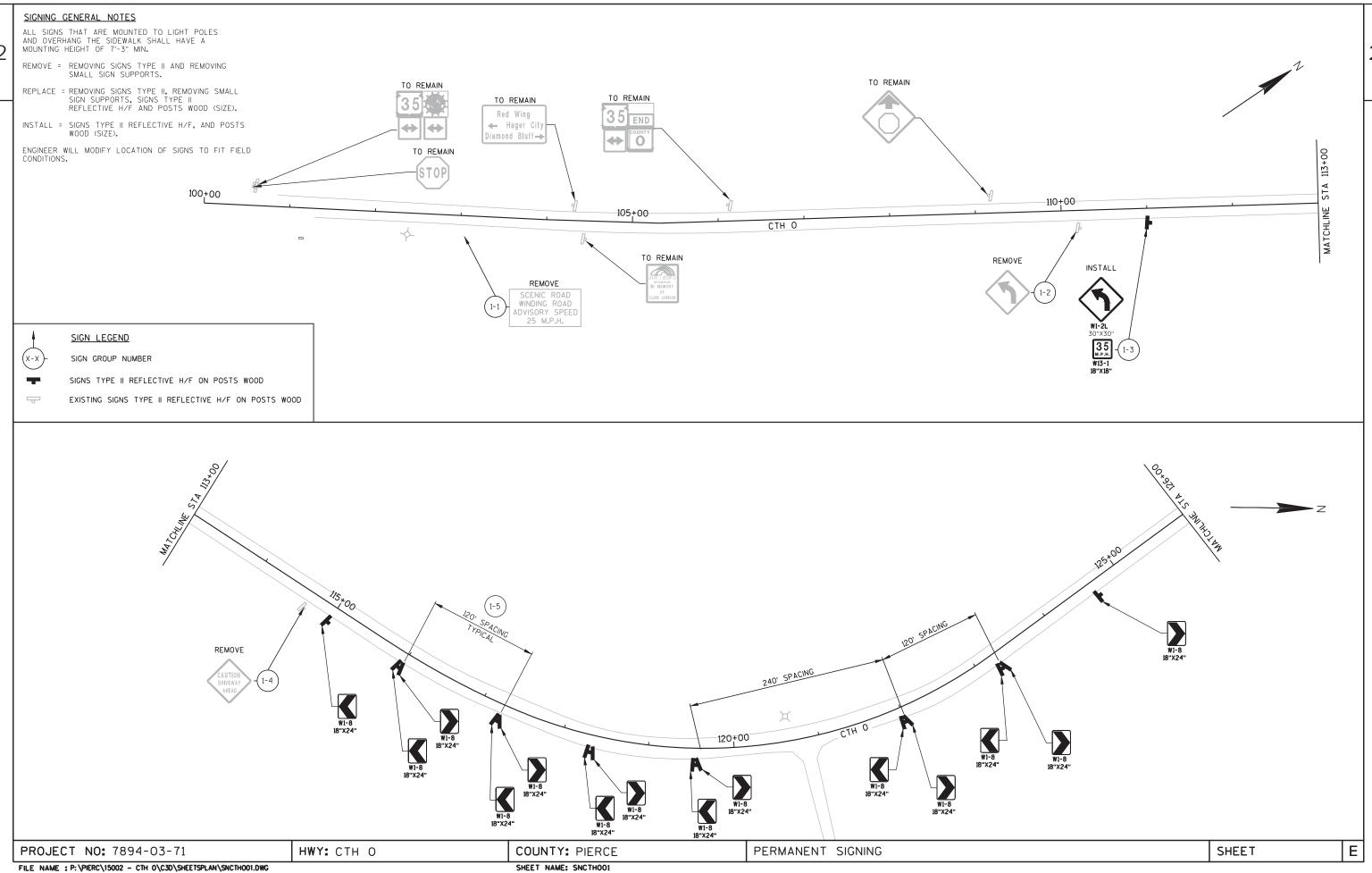


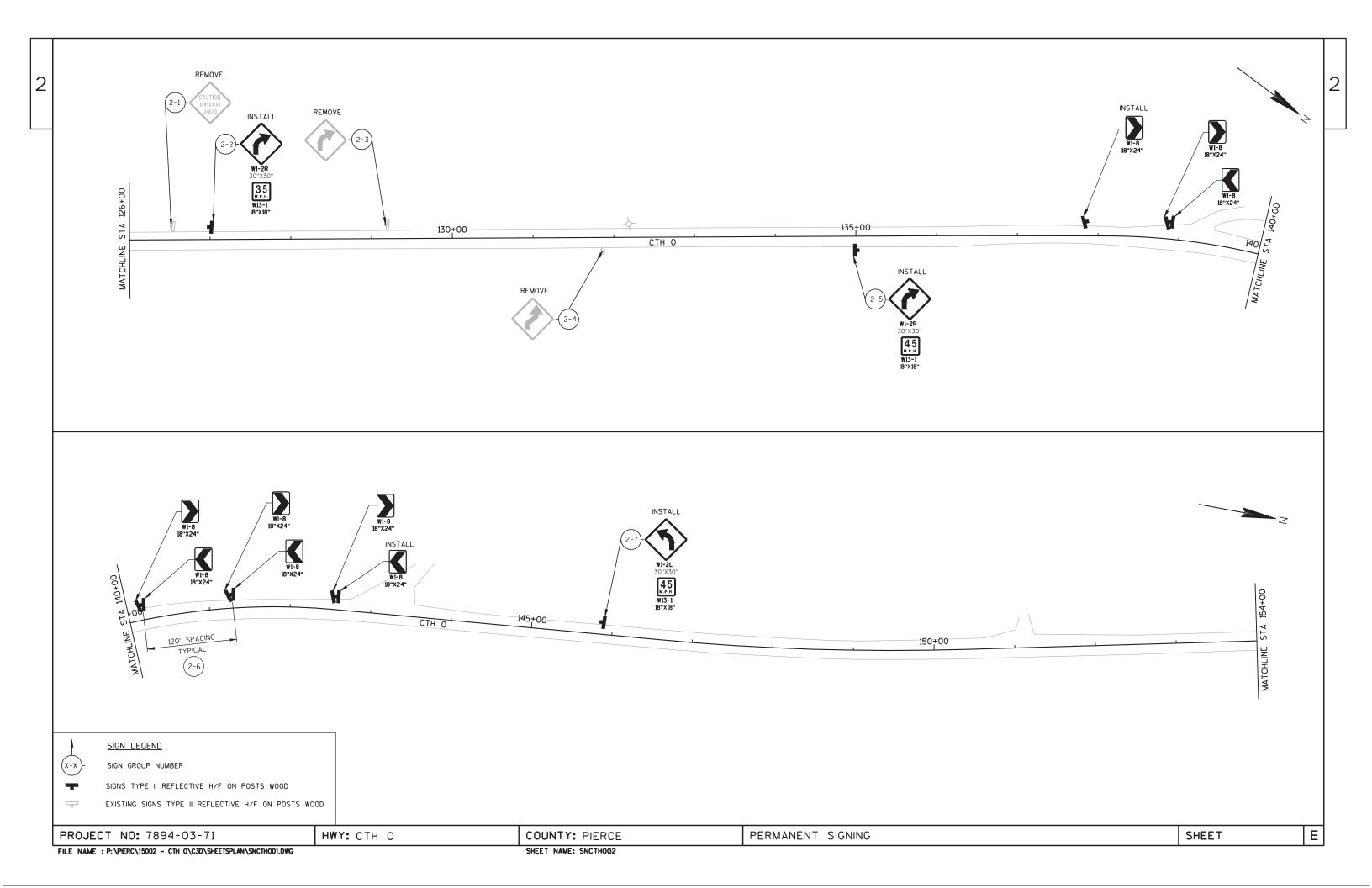


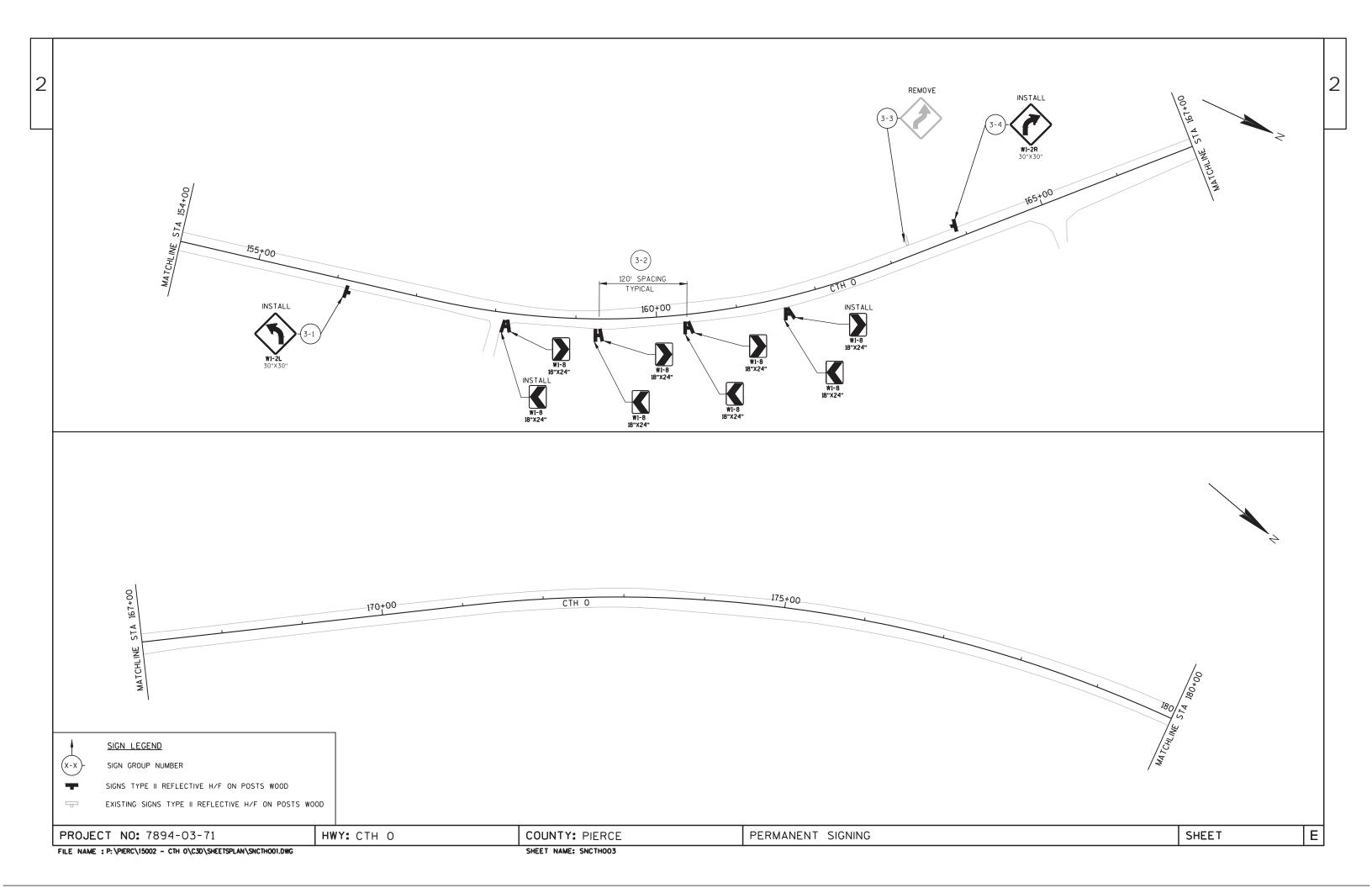


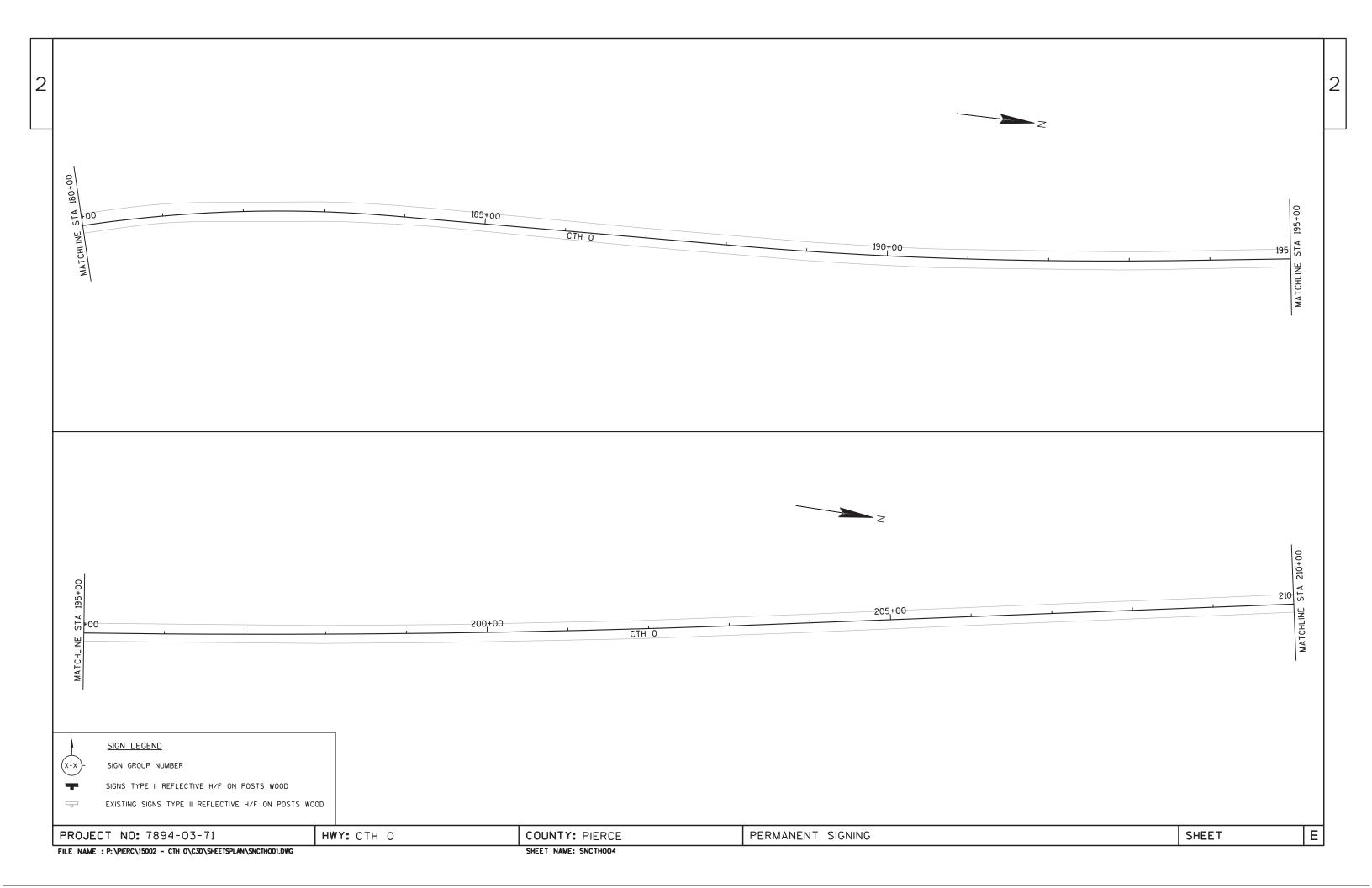


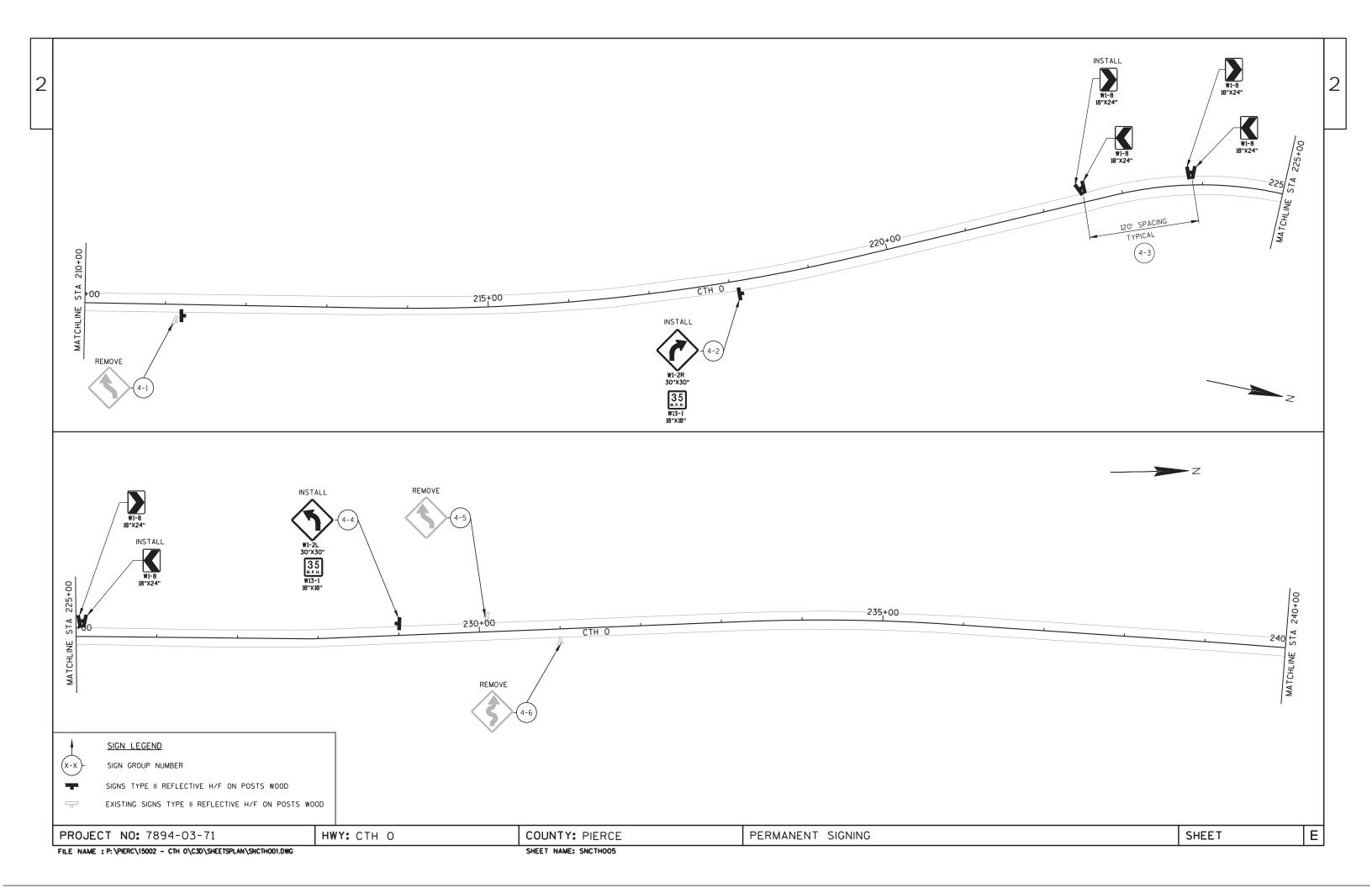


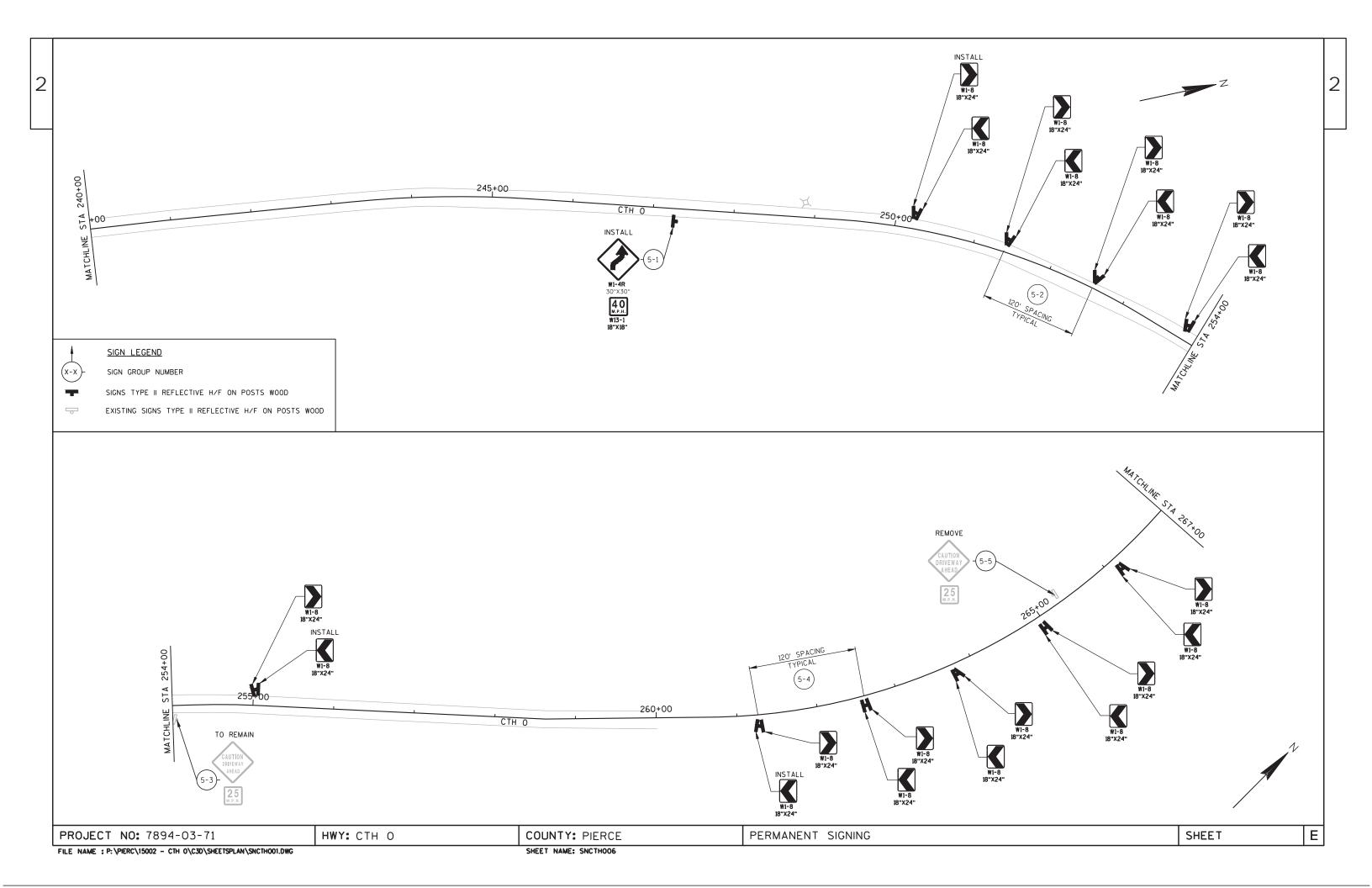


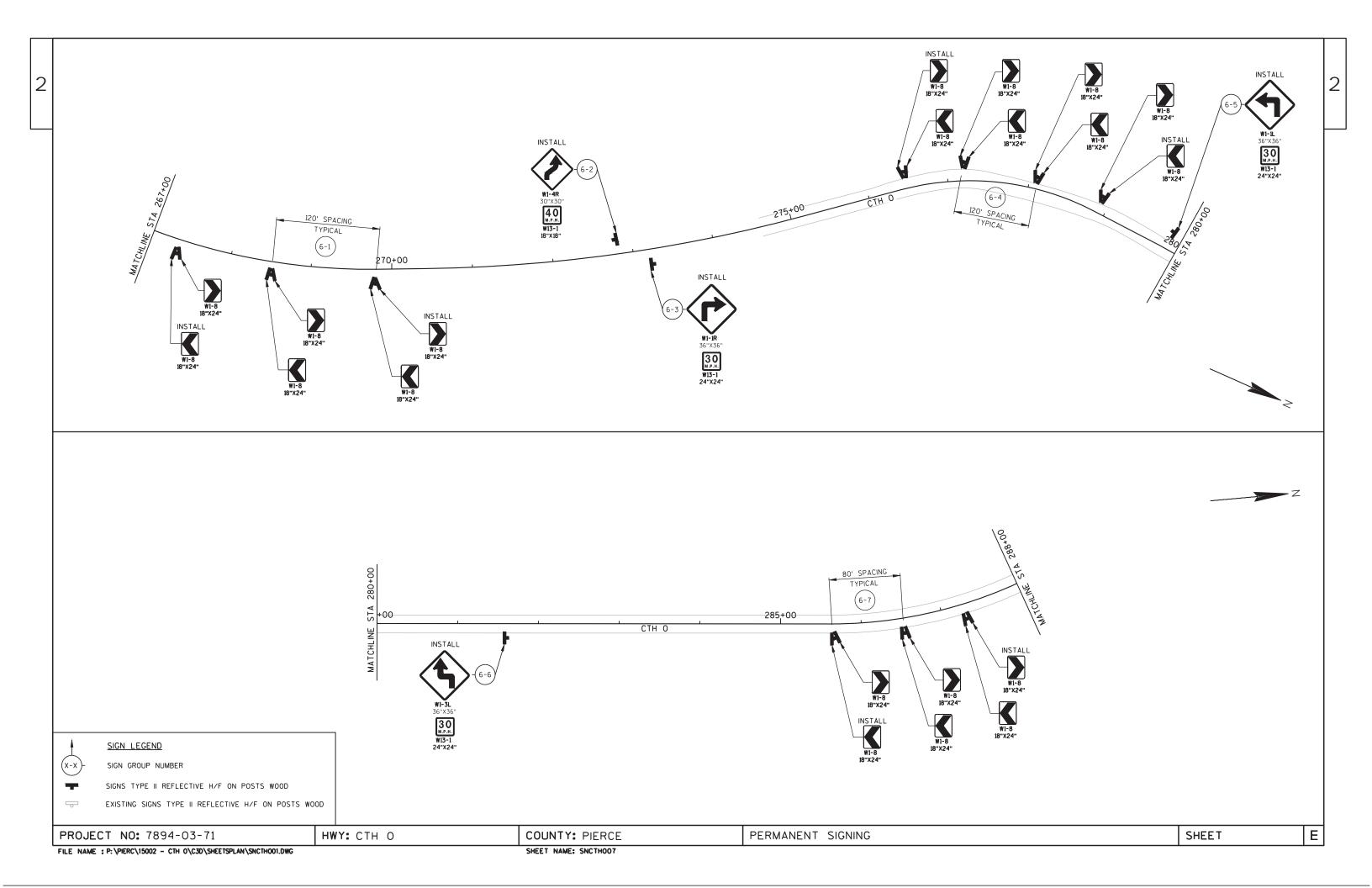


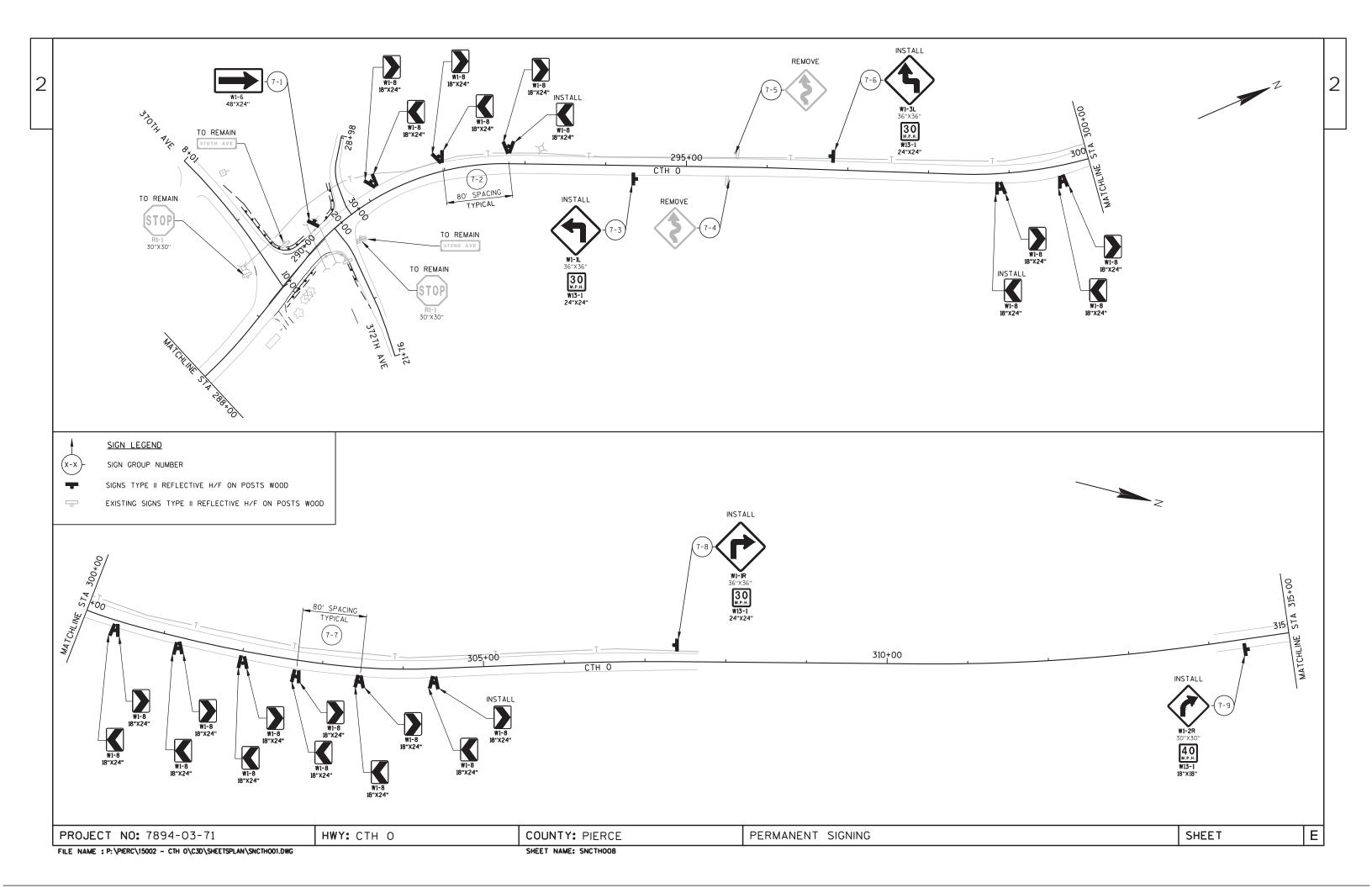


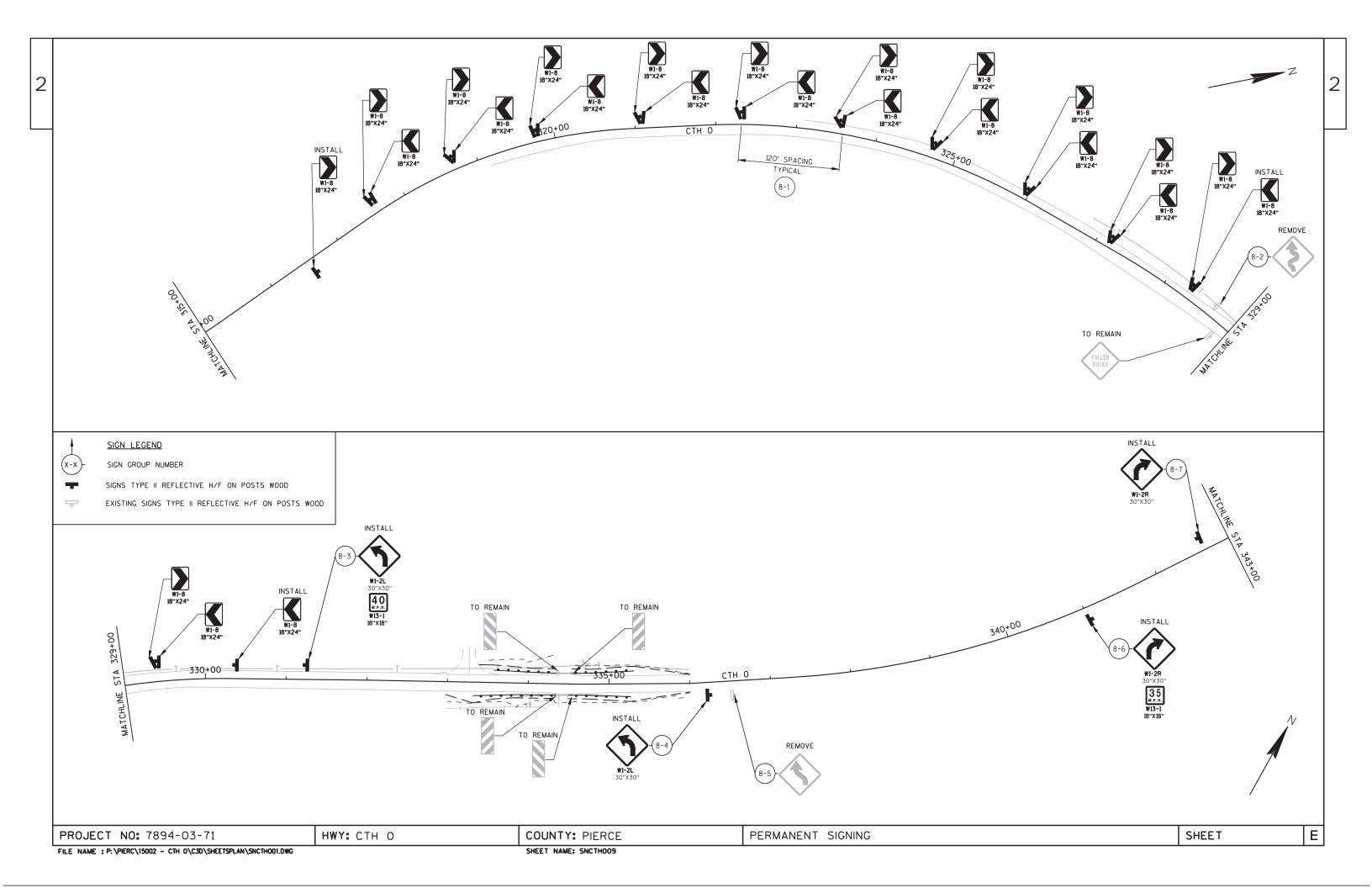


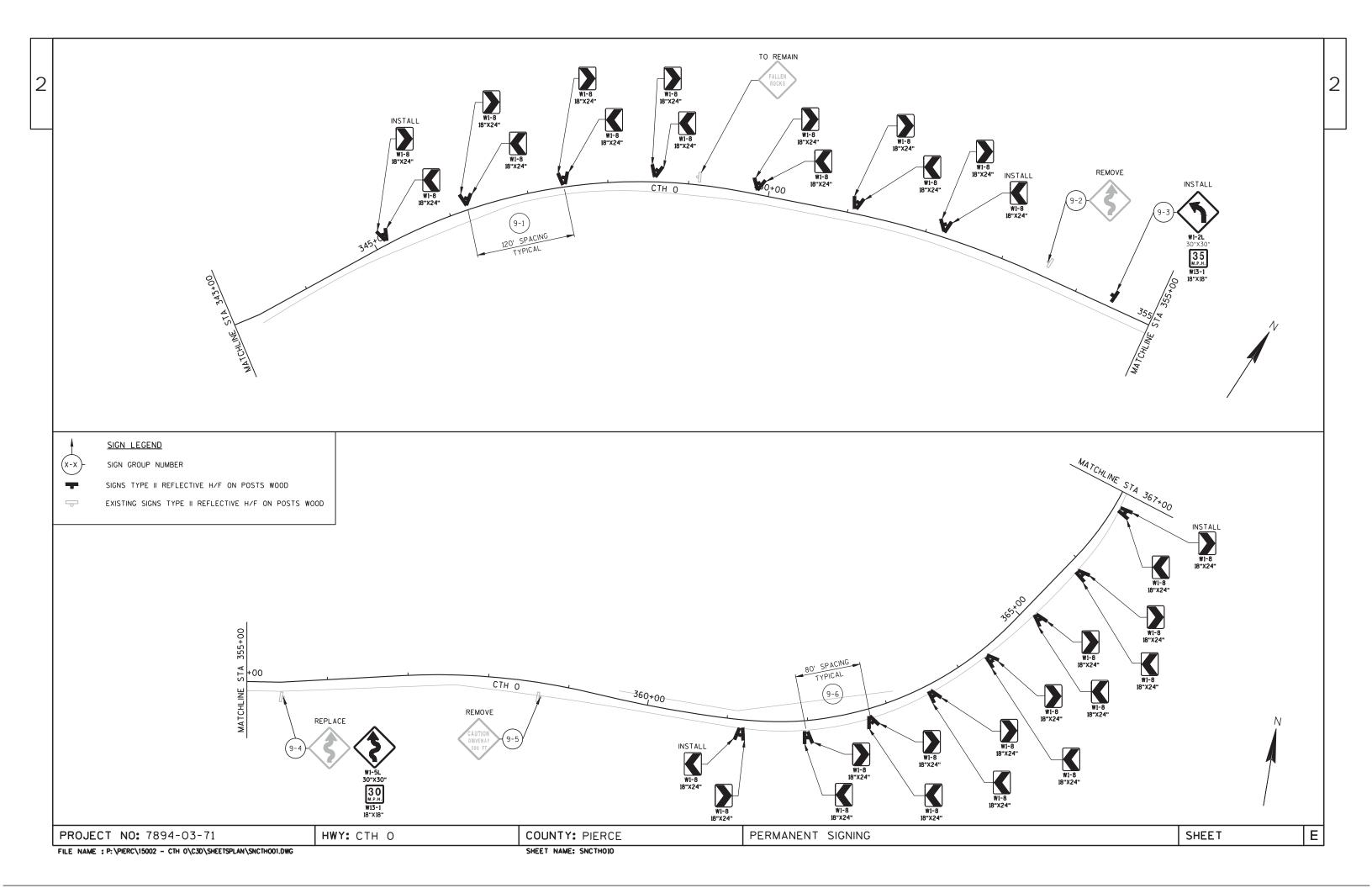


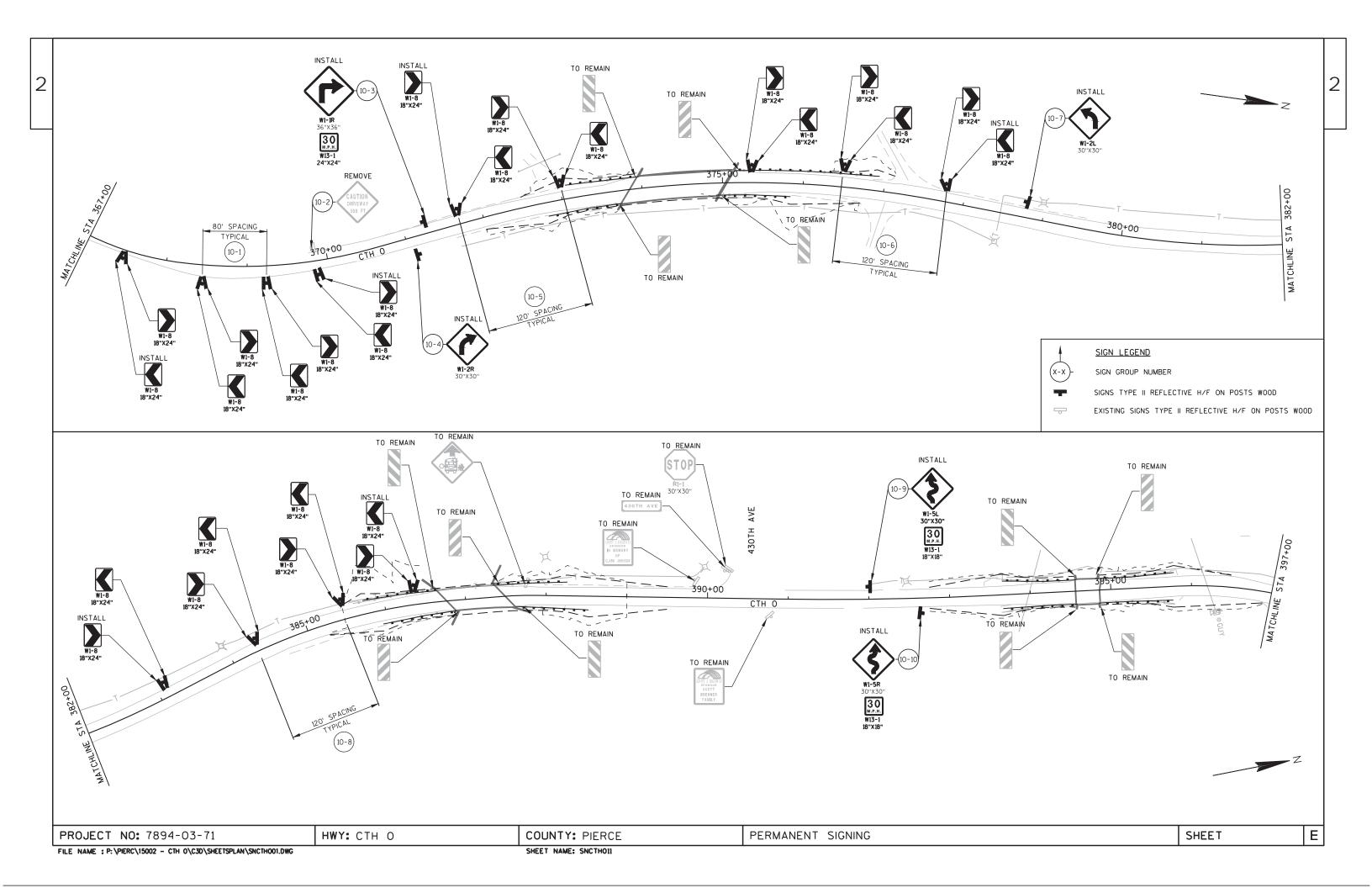


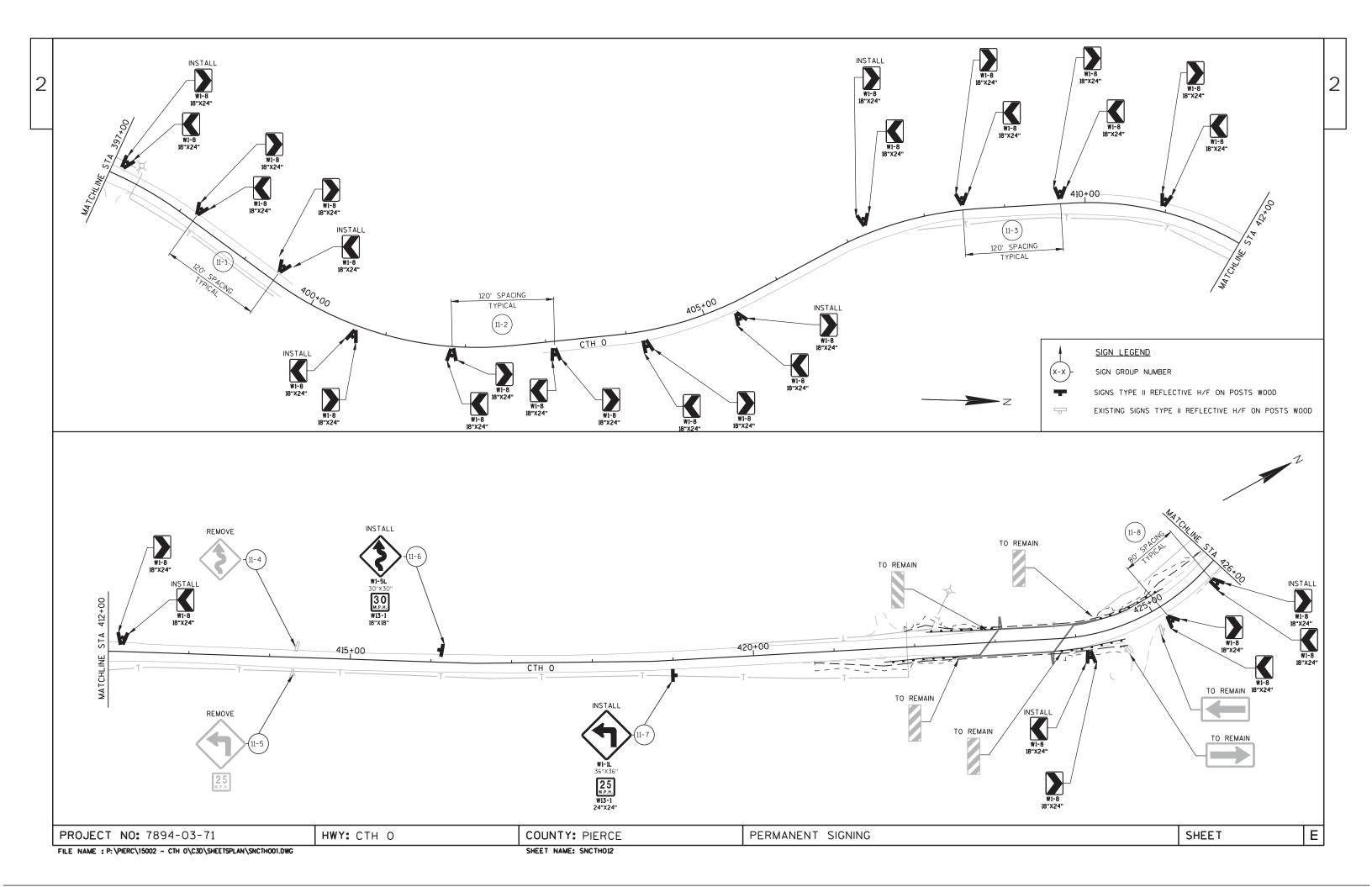


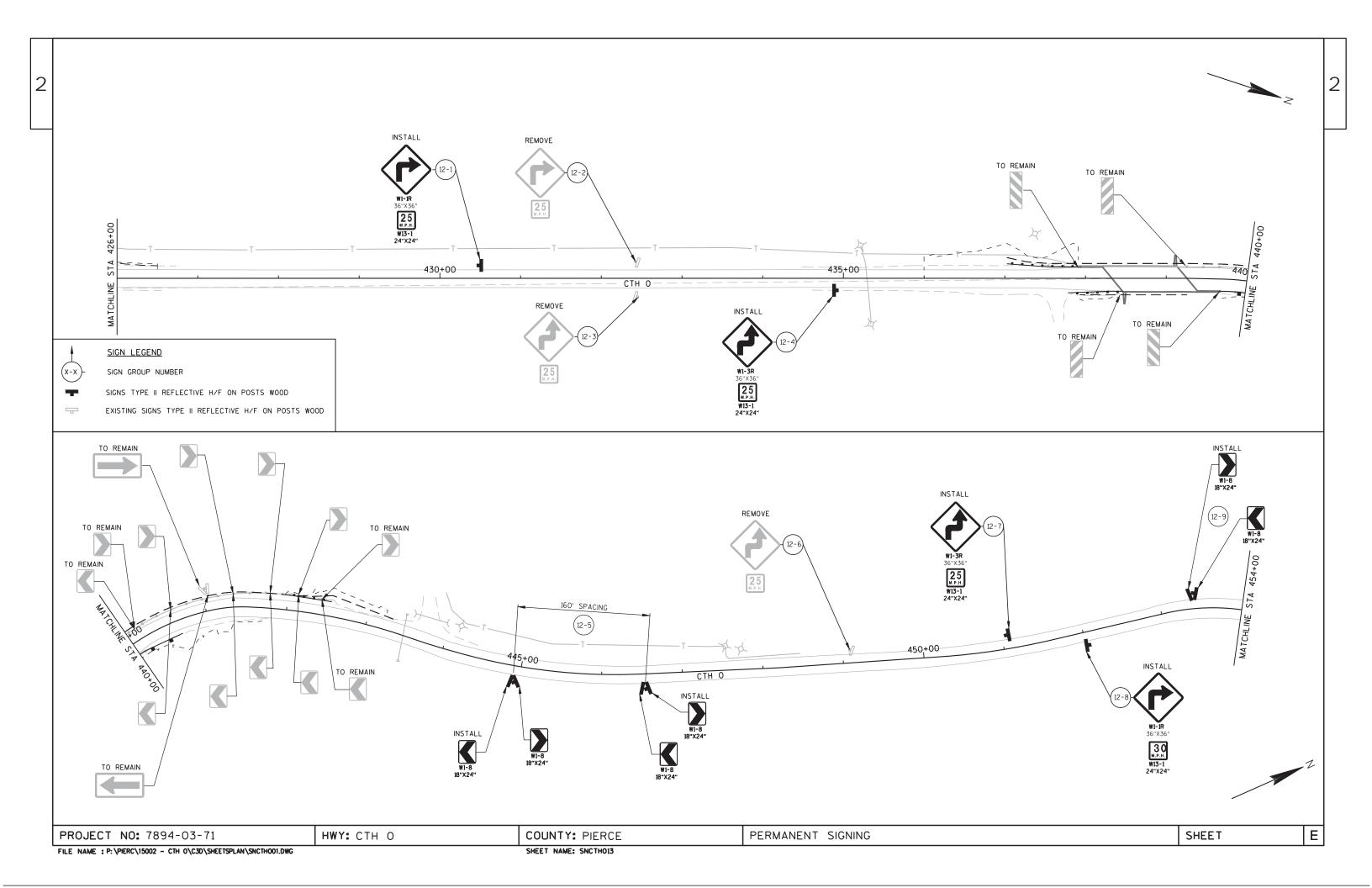


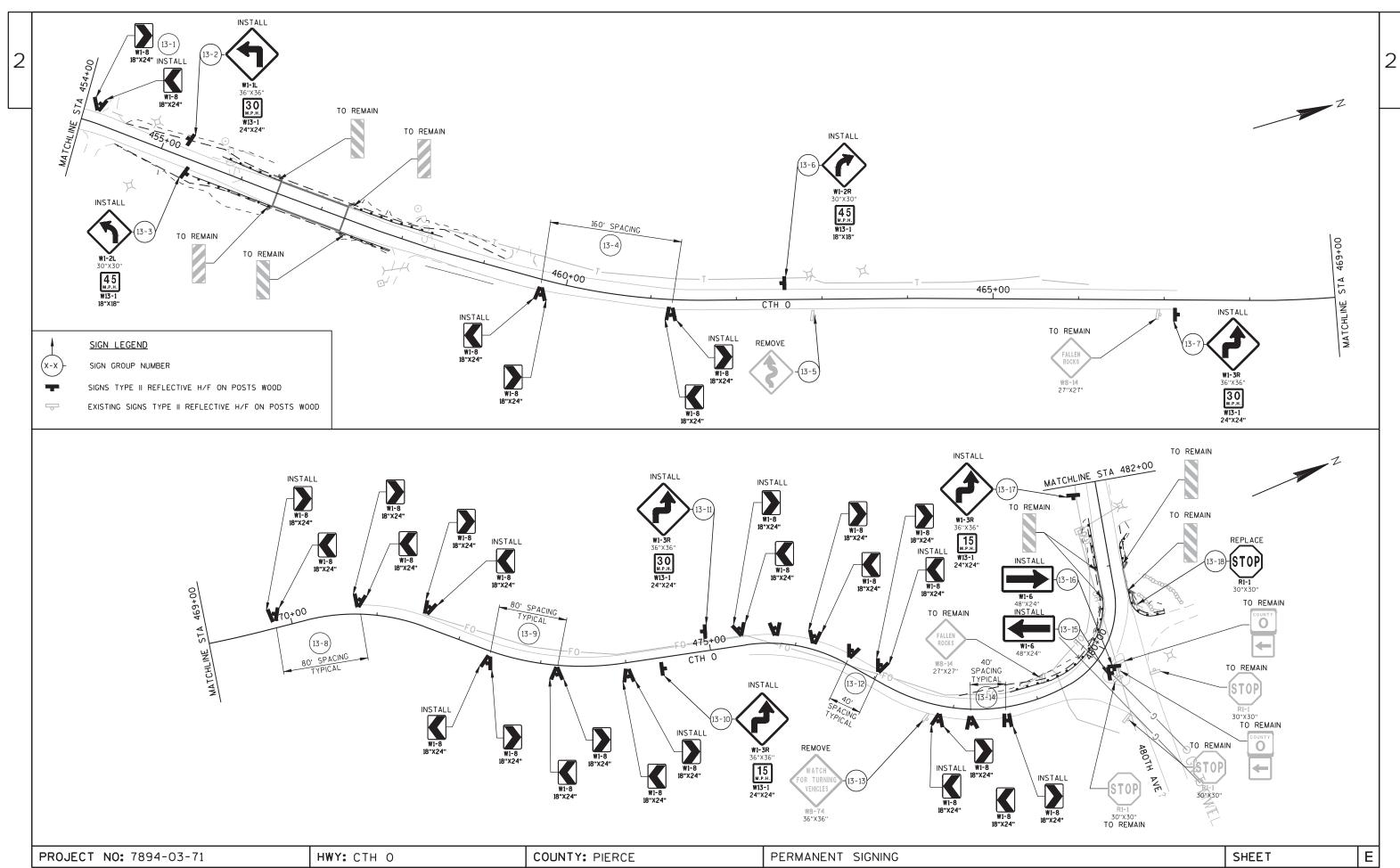


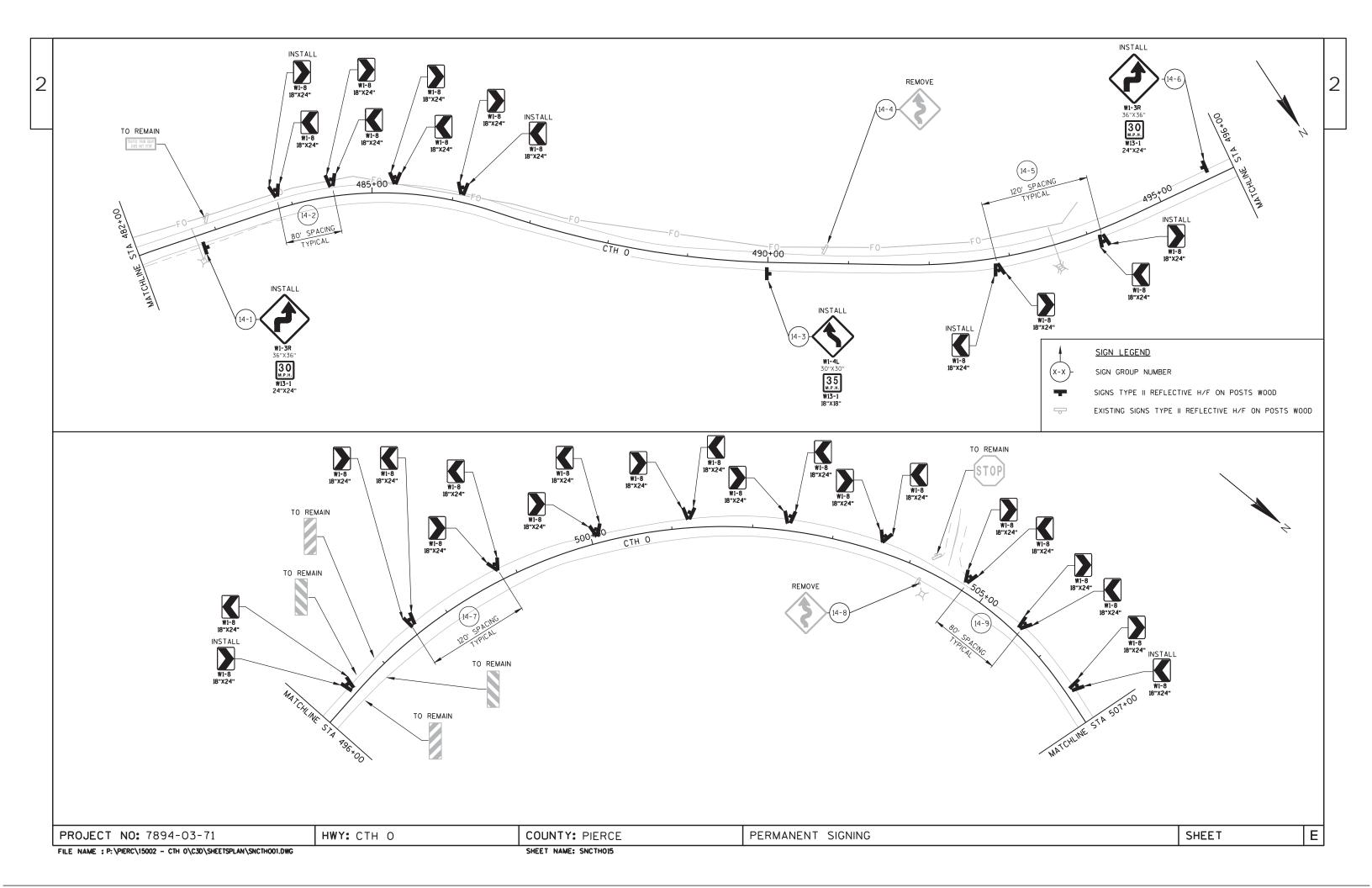


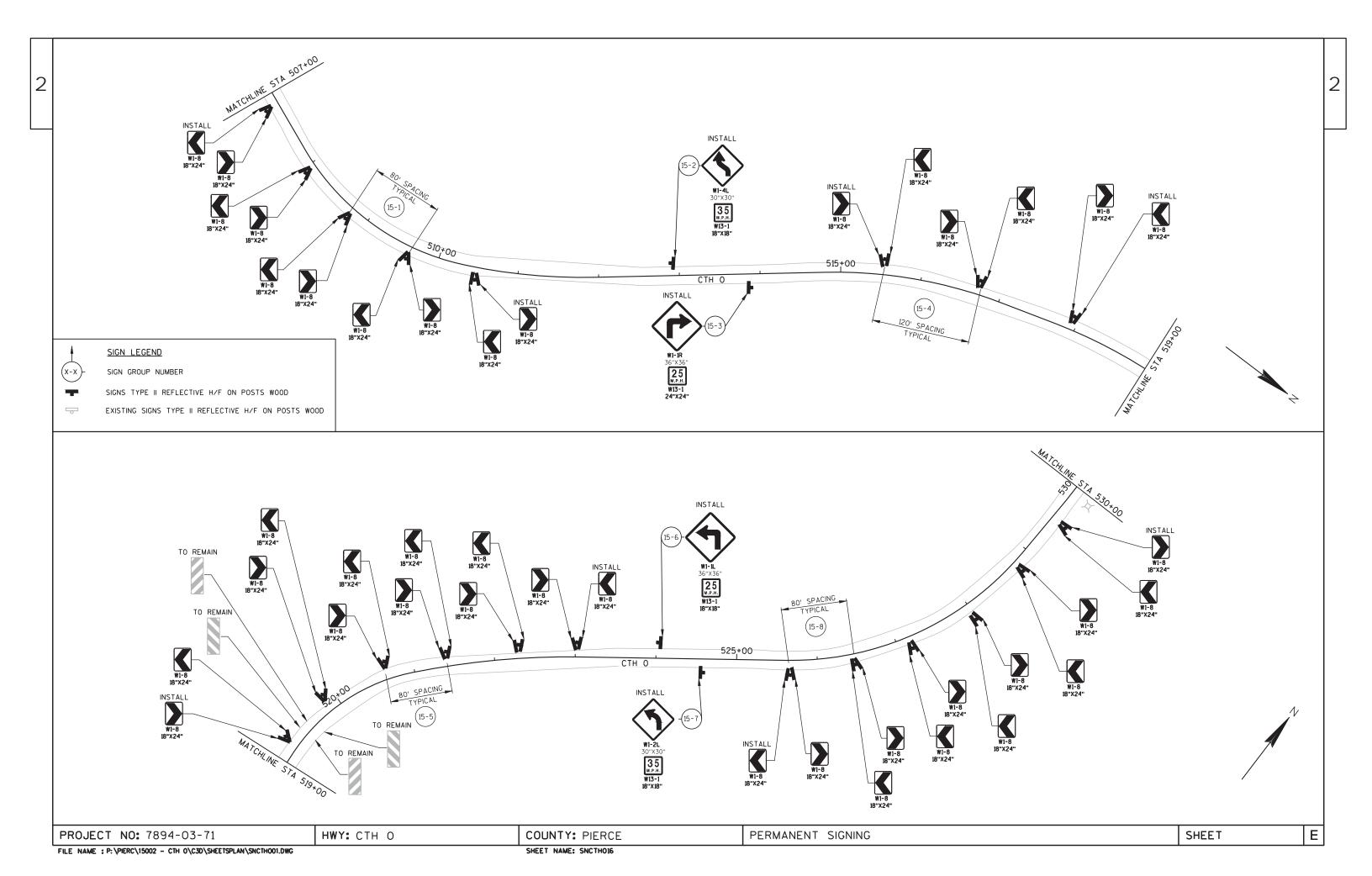


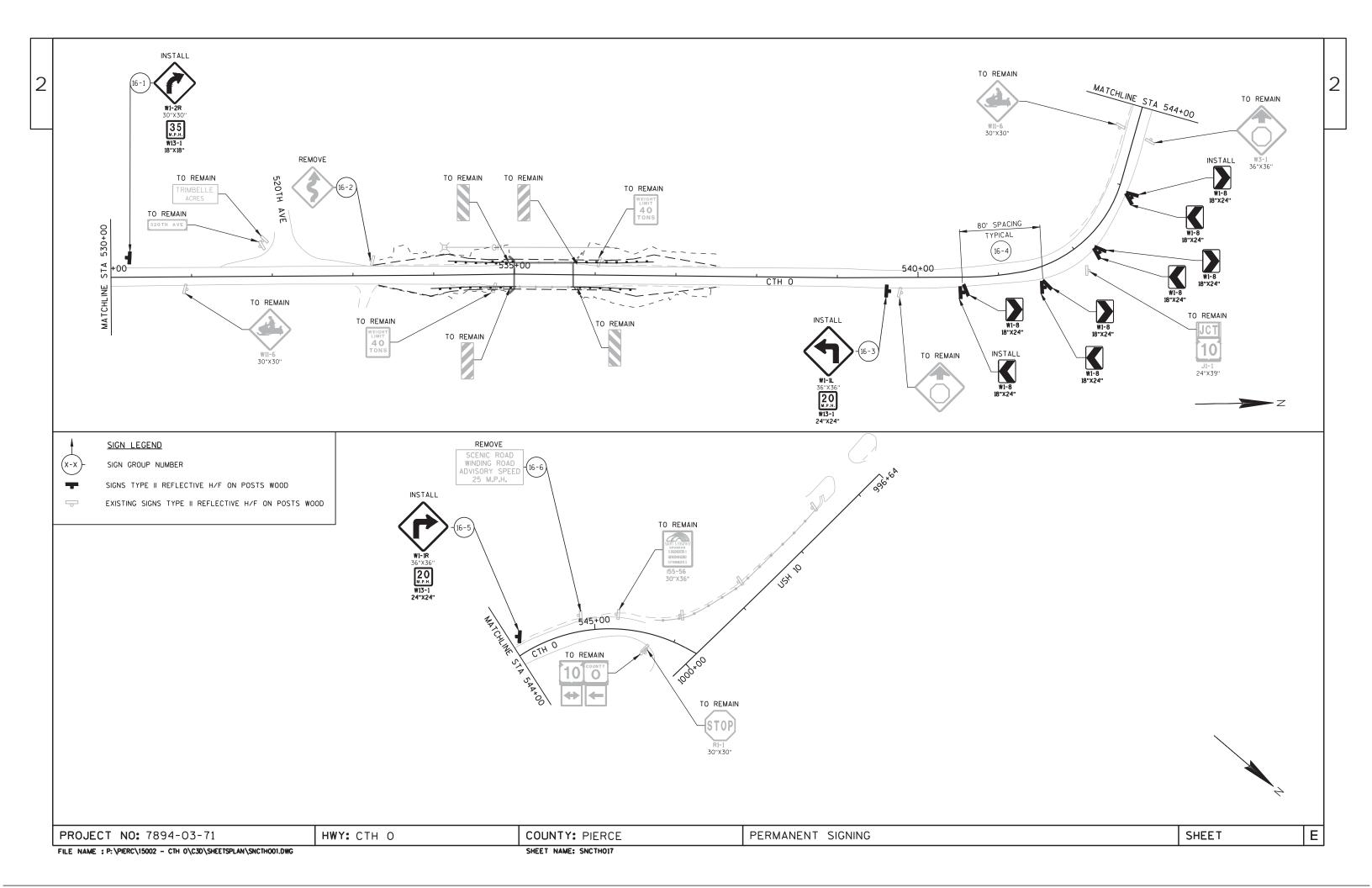












					7894-03-71
Line	Item	Item Description	Unit	Total	Qty
0010	201.0205	Grubbing	STA	7.000	7.000
0020	204.0165	Removing Guardrail	LF	2,005.000	2,005.000
0030	213.0100	Finishing Roadway (project) 01. 7894-03-71	EACH	1.000	1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	627.000	627.000
0050	606.0300	Riprap Heavy	CY	9.000	9.000
0060	614.0010	Barrier System Grading Shaping Finishing	EACH	40.000	40.000
0070	614.0115	Anchorages for Steel Plate Beam Guard Type 2	EACH	1.000	1.000
0800	614.0200	Steel Thrie Beam Structure Approach	LF	20.600	20.600
0090	614.0305	Steel Plate Beam Guard Class A	LF	643.900	643.900
0100	614.0340	Steel Plate Beam Guard Over Low-Fill Culverts Class A		100.000	100.000
0110	614.0345	Steel Plate Beam Guard Short Radius	LF	125.000	125.000
0120	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	18.000	18.000
0130	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	3.000	3.000
0140	614.2330	MGS Guardrail 3 K	LF	87.500	87.500
0150	614.2500	MGS Thrie Beam Transition	LF	709.200	709.200
0160	614.2610	MGS Guardrail Terminal EAT	EACH	18.000	18.000
0170	619.1000	Mobilization	EACH	1.000	1.000
0180	628.1504	Silt Fence	LF	4,005.000	4,005.000
0190	628.1520	Silt Fence Maintenance	LF	4,005.000	4,005.000
0200	628.1905	Mobilizations Erosion Control	EACH	10.000	10.000
0210	628.1910	Mobilizations Emergency Erosion Control	EACH	10.000	10.000
0220	628.2008	Erosion Mat Urban Class I Type B	SY	3,982.000	3,982.000
0230	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	168.000	168.000
0240	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	54.000	54.000
0250	637.2210	Signs Type II Reflective H	SF	5.180	5.180
0260	637.2230	Signs Type II Reflective F	SF	1,540.250	1,540.250
0270	638.2602	Removing Signs Type II	EACH	35.000	35.000
0280	638.3000	Removing Small Sign Supports	EACH	30.000	30.000
0290	642.5001	Field Office Type B	EACH	1.000	1.000
0300	643.0100	Traffic Control (project) 01. 7894-03-71	EACH	1.000	1.000
0310	645.0120	Geotextile Type HR	SY	13.000	13.000
0320	646.0106	Pavement Marking Epoxy 4-Inch	LF	165,500.000	165,500.000
0330	648.0100	Locating No-Passing Zones	MI	8.500	8.500
0340	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0350	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

BARRIER SYSTEM GRADING SHAPING FINISHING

					FOR INFORM	MATIONAL PUR	POSES ONLY			
STATION - STATION	LOCATION	614.0010 EACH	EXCAVATION COMMON CY	BORROW CY	SALVAGED TOPSOIL SY	MULCHING SY	FERTILIZER TYPE B CWT	SEEDING #20 LB	SLOPE STAKES LF	CONSTRUCTION STAKING BASE LF
P-47-086	LOCATION	LAOIT	 	O I	<u> </u>	- 51	OWI	LD		LI
9+44 - 9+61		1								
289+88 - 289+59		1								
20+54		1								
290+38 - 290+58		1								
UNNAMED			53	47	226	226	0.1	6.1	70	70
333+82 - 334+35		1								
333+82 - 334+34		1								
334+53 - 335+04		1								
334+53 - 334+97		1								
B-47-048			24	146	678	678	0.4	18.3	200	200
373+31 - 373+97		1								
373+27 - 373+74		1								
376+36 - 376+89		1								
374+93 - 375+33		1		0.55	505	505		40.4		222
B-47-068			36	357	595	595	0.4	16.1	206	206
385+62 - 386+66		1								
386+30 - 386+86		1								
387+39 - 387+89		1								
387+62 - 388+17 B-47-142		1	31	93	343	343	0.2	9.3	204	204
394+75 - 393+65		1	ا ا	93	343	343	0.2	9.3	204	204
393+65 - 394+59		1								
394+87 - 395+76		1								
394+85 - 395+78		1								
B-47-125		'	130	54	1413	1413	0.9	38.2	386	386
423+05 - 422+59		1	100	0-1	1410	1410	0.0	00.2	300	300
422+52 - 422+06		1								
424+29 - 424+78		1								
423+71 - 424+21		1								
B-47-124			46	202	603	603	0.4	16.3	191	191
437+44 - 437+94		1								
438+00 - 438+46		1								
440+18 - 439+67		1								
441+99 - 442+53		1								
P-47-080			63	270	353	353	0.2	9.5	203	203
455+90 - 456+45		1								
455+83 - 456+45		1								
457+30 - 457+74		1								
457+29 - 457+72		1	_		454		• •		4.40	4.40
P-47-079		4	7	15	151	151	0.1	4.1	146	146
480+09 - 480+64		1								
480+51 - 480+67		1								
480+97 - 481+40 480+95 - 481+27		1 1								
P-47-077		1	59	366	711	711	0.4	19.2	174	174
534+17 - 534+96		1		300	7 1 1	/ 1 1	0.4	13.2	17-	17-
534+54 - 534+99		i								
535+73 - 536+21		1								
535+75 - 536+11		i								
000170 000171										
ITEM TOTAL		40	449	1550	5073	5073	3	137	1780	1780

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STATION - STATION	LOCATION	201.0205 STA
334+00 - 336+00	SOUTHEAST APPROACH QUADRANT	2
385+00 - 387+00	SOUTHWEST APPROACH QUADRANT	2
395+00 - 396+00	NORTHWEST APPROACH QUADRANT	1
455+00 - 457+00	SOUTHEAST APPROACH QUADRANT	2
ITEM TOTAL		7

NOTE: ALL ITEMS ARE CATEGORY 10 UNLESS OTHEWISE NOTED.

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HWY: CTH O PROJECT NO: 7894-03-71

COUNTY: PIERCE

MISCELLANEOUS QUANTITIES

SHEET

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BASE AGGREGATE DENSE, 3/4 - INCH 305.0110

STATION - STATION	LOCATION	TON
UNNAMED		65
B47048		63
B47068		88
B47124		72
B47125		67
B47142		84
P47077		72
P47079		23
P47086		20
P47080		73
ITEM TOTAL		627

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF
P-47-086	_	
9+44 - 9+61	370TH LT	19
289+88 - 289+59	RT	30
20+54	372ND AVE RT	7
290+38 - 290+58	LT, DRIVEWAY	25
UNNAMED		
333+82 - 334+35	LT	53
333+82 - 334+34	RT	45
334+53 - 335+04	LT	50
334+53 - 334+97	RT	44
B-47-048		
373+31 - 373+97	LT	68
373+27 - 373+74	RT	45
376+36 - 376+89	LT	53
374+93 - 375+33	RT	41
B-47-068		
385+62 - 386+66	LT	105
386+30 - 386+86	RT	56
387+39 - 387+89	LT	52
387+62 - 388+17	RT	55
B-47-142		
394+75 - 393+65	LT	94
393+65 - 394+59	RT	94
394+87 - 395+76	LT	93
394+85 - 395+78	RT	95
B-47-125		
423+05 - 422+59	LT	46
422+52 - 422+06	RT	46
424+29 - 424+78	LT	46
423+71 - 424+21	RT	48
B-47-124		
437+44 - 437+94	LT	48
438+00 - 438+46	RT	47
440+18 - 439+67	LT	53
441+99 - 442+53	RT	48
P-47-080		
455+90 - 456+45	LT	54
455+83 - 456+45	RT	58
457+30 - 457+74	LT	43
457+29 - 457+72	RT	43
P-47-079		
480+09 - 480+64	LT	45
480+51 - 480+67	RT	27
480+97 - 481+40	LT	41
480+95 - 481+27	RT	31
P-47-077		
534+17 - 534+96	LT	26
534+54 - 534+99	RT	46
535+73 - 536+21	LT	48
	RT	37
535+75 - 536+11	13.1	01

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ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2

STATION - STATION	LOCATION	614.0115 EACH
P-47-086 20+72	372ND AVE RT	1
ITEM TOTAL		1

STEEL THRIE BEAM STRUCTURE APPROACH

<u>STATION - STATION</u> 438+28 - 438+47	LOCATION RT	614.0200 LF 20.6
ITEM TOTAL		20.6

MGS GUARDRAIL 3 K

STATION - STATION 375+54	LOCATION LT	614.2330 LF 87.5	_
ITEM TOTAL		87.5	_

STEEL PLATE BEAM GUARD SHORT RADIUS

		614.0345	
STATION - STATION	LOCATION	LF	NOTES
P-47-086			
9+45 - 289+99	LT	37.5	24' Radius
290+52 - 290+68	17' LT - 37' LT	37.5	16' Radius w/45° Bend
P-47-079			
480+45 - 480+60	17' RT - 46' RT	37.5	24' Radius
481+20 - 481+30	RT	12.5	8 Radius w/45° Bend
ITEM TOTAL		125	·

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATION	LOCATION	614.0390 EACH	
P-47-086			
290+72.5	49' LT	1	
P-47-079			
480+48	58' RT	1	
481+35	26' RT	1	
ITEM TOTAL		3	

STEEL PLATE BEAM GUARD OVER LOW FILL CULVERTS CLASS A

STATION - STATION	LOCATION	614.0340 LF
P-47-086 479+24 - 480+34	LT	100
ITEM TOTAL		100

HWY: CTH O

STEEL PLATE BEAM GUARD, CLASS A

STATION - STATION	LOCATION	614.0305 LF
P-47-086	LOCATION	
		40.5
289+99 - 290+10	LT	12.5
290+40 - 290+52	LT	12.5
20+47 - 20+72	372ND RT	25.0
UNNAMED		
334+09.8 - 334+34.8	LT	25.0
333+31.8 - 333+81.8	RT	50.0
334+78.7 - 335+31.3	LT	25.0
334+50 - 334+75	RT	50.0
P-47-080		
457+36 - 457+86	LT	50.0
457+30 - 457+43	RT	12.5
455+96 - 456+46	RT	50.0
456+20 - 456+45	LT	25.0
P-47-079		
480+95 - 481+20	RT	25.0
480+59 - 480+71	RT	12.5
479+62 - 480+64	LT	87.5
480+97 - 481+10	LT	12.5
P-47-077		
534+69 - 534+99	LT	31.3
534+47 - 535+03	RT	56.3
535+73 - 536+23	LT	50.0
535+70 - 536+01	RT	31.3
ITEM TOTAL		643.9

MGS THRIE BEAM TRANSITION

STATION - STATION	LOCATION	614.2500 LF
B-47-048		
373+61 - 373+98	LT	39.4
373+33 - 373+70	RT	39.4
374+92 - 375+31	RT	39.4
375+15 - 375+54	LT	39.4
B-47-068		
386+27 - 386+66	LT	39.4
386+48 - 386+86	RT	39.4
387+61 - 388+00	RT	39.4
387+35 - 387+78	LT	39.4
B-47-142		
394+19 - 394+57	LT	39.4
394+19 - 394+57	RT	39.4
394+85 - 395+24	RT	39.4
394+87 - 395+26	LT	39.4
B-47-125		
422+12 - 422+52	RT	39.4
422+68 - 423+05	LT	39.4
423+71 - 424+09	RT	39.4
424+29 - 424+71	LT	39.4
B-47-124		
437+55 - 437+95	LT	39.4
439+65 - 440+07	RT	39.4
ITEM TOTAL		709.2

COUNTY: PIERCE

STEEL PLATE BEAM GUARD. **ENERGY ABSORBING TERMINAL**

		614.0370
STATION - STATION	LOCATION	EACH
P-47-086		
8+89.7 - 9+45.3	LT	1
289+35 - 289+89	RT	1
UNNAMED		
333+31.9	RT	1
333+57.2	LT	1
335+27.1	RT	1
335+31.3	LT	1
B-47-124		
437+78	RT	1
442+53	LT	1
P-47-080		
458+46	LT	1
457+92	RT	1
455+70	LT	1
455+46	RT	1
P-47-079		
479+07	LT	1
481+60	LT	1
P-47-077		
533+97	RT	1
534+18	LT	1 1
536+51	RT	1
536+72	LT	1
ITEM TOTAL		18

MGS GUARDRAIL TERMINAL EAT

STATION - STATION	LOCATION	614.2610 EACH
B-47-048	200/111011	EXCIT
372+80	LT	1
373+07	RT	1
375+85	LT	1
376+89	RT	1
B-47-068		
385+76	LT	1
385+94	RT	1
388+26	LT	1
388+53	RT	1
B-47-142		
393+66	LT	1
393+66	RT	1
395+77	LT	1
395+79	RT	1
B-47-125		
421+61	RT	1
422+15	LT	1 1
424+58	RT	1
425+28	LT	1
B-47-124		
437+02	LT	1
440+63	RT	1
ITEM TOTAL		18

EROSION CONTROL ITEMS

		606.0300	628.1504	628.1520	628.1905	628.1910 MOBILIZATIONS	628.2008 EROSION MAT	645.0120
STATION - STATION	LOCATION	RIPRAP HEAVY CY	SILT FENCE LF	SILT FENCE MAINTENANCE LF	MOBILIZATIONS EROSION CONTROL EACH	EMERGENCY EROSION CONTROL EACH	URBAN CLASS I TYPE B SY	GEOTEXTILE FABRIC TYPE HR SY
288+00 - 291+00	P-47-086	9	100	100	1	1	238	13
331+70 - 336+00	UNNAMED		365	365	1	1	237	
372+00 - 377+11	B-47-048		465	465	1	1	534	
385+25 - 389+50	B-47-068		603	603	1	1	545	
392+75 - 396+90	B-47-142		493	493	1	1	310	
420+75 - 426+50	B-47-125		343	343	1	1	297	
436+00 - 443+22	B-47-124		558	558	1	1	616	
452+52 - 459+22	P-47-080		439	439	1	1	428	
478+50 - 481+60	P-47-079		100	100	1	1	203	
533+25 - 537+50	P-47-077		539	539	1	1	574	
ITEM TOTAL		9	4005	4005	10	10	3982	13

TRAFFIC CONTROL (PROJECT)

STATION - STATION	LOCATION	643.0100 EACH
	LT & RT	1
ITEM TOTAL		1

LOCATING NO-PASSING ZONES

STATION - STATION	LOCATION	648.0100 MI
100+50 - 546+00	CTHO	8.5
ITEM TOTAL		8.5

PAVEMENT MARKING

STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0106 EPOXY 4-INCH (WHITE) LF
100+29 - 546+31	CTH O CENTERLINE CTH O EDGELINE	77250	88250

ITEM TOTAL 165,500

NOTE: ALL ITEMS ARE CATEGORY 10 UNLESS OTHEWISE NOTED.

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PROJECT NO: 7894-03-71

MISCELLANEOUS QUANTITIES

SHEET

SIGN				637.2210 SIGNS	637.2230 TYPE II	634.0614 POSTS WOO	634.0616 D 4X6-INCH	638.2602 REMOVING	638.3000 REMOVING SMALL
GROUP NUMBER	SIGN CODE	SIGNMESSAGE	SIZE	REFLECTIVE H SF	REFLECTIVE F SF	14-FT EACH	16-FT EACH	SIGNS TYPE II EACH	SIGN SUPPORTS EACH
				AFE II	- 	1912516180000181		4	4
1-1 1-2	- W1-2L	SCENIC ROAD/WINDING ROAD LEFT CURVE						1	1
1-3	W1-2L	LEFT CURVE	30 X 30		6.25		1	'	
1-5	W13-1	ADVISORY SPEED PLATE (YELLOW) 35 MPH	18 X 18		2.25				
1-4	-	CAUTION DRIVEWAY AHEAD	10 % 10		2.20			1	1
1-5	W1-8	CHEVRONS (14)	18 X 24		42.00	8		·	·
2-1	-	CAUTION DRIVEWAY AHEAD				₹.			
2-2	W1-2R	RIGHT CURVE	30 X 30		6.25		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 35 MPH	18 X 18		2.25				
2-3		RIGHT CURVE						1	1
2-4		REVERSE CURVE RIGHT						1	1
2-5		RIGHT CURVE	30 X 30		6.25		1		
		ADVISORY SPEED PLATE (YELLOW) 45 MPH	18 X 18		2.25	_			
2-6	W1-8	CHEVRONS (9)	18 X 24		27.00	5	4		
2-7	VV I-∠L \Λ/12 1	LEFT CURVE ADVISORY SPEED PLATE (YELLOW) 45 MPH	30 X 30 18 X 18		6.25 2.25		1		
3-1		LEFT CURVE	30 X 30		6.25		1		
3-2	W1-8	CHEVRONS (8)	18 X 24		24.00	4			
3-3		REVERSE CURVE RIGHT	10 / 24		24.00	7		1	1
3-4		RIGHT CURVE	30 X 30		6.25		1		·
4-1	W1-4L	REVERSE CURVE LEFT						1	1
4-2	W1-2R	RIGHT CURVE	30 X 30		6.25		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 35 MPH	18 X 18		2.25				
4-3	W1-8	CHEVRONS (6)	18 X 24		18.00	3			
4-4		LEFT CURVE	30 X 30		6.25		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 35 MPH	18 X 18		2.25				
4-5	W1-4L	REVERSE CURVE LEFT						1	1
4-6		WINDING ROAD RIGHT	20 1/ 20		0.05			1	1
5-1		REVERSE CURVE RIGHT	30 X 30		6.25		1		
5.2		ADVISORY SPEED PLATE (YELLOW) 40 MPH	18 X 18		2.25	5			
5-2 5-3	W1-8	CHEVRONS (10) CAUTION DRIVEWAY AHEAD	18 X 24		30.00	5		1	1
3-3	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH						1	'
5-4	W1-8	CHEVRONS (10)	18 X 24		30.00	5		'	
5-5	-	CAUTION DRIVEWAY AHEAD	10 / 21		00.00	•			
	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH						1	
6-1	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
6-2	W1-4R	REVERSE CURVE RIGHT	30 X 30		6.25		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 40 MPH	18 X 18		2.25				
6-3		ROAD TURNS RIGHT	36 X 36		9.00		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 30 MPH	24 X 24		4.00				
6-4	W1-8	CHEVRONS (8)	18 x 24		24.00	4			
6-5		ROAD TURNS LEFT	36 X 36		9.00		1		
6-6	W13-1 W1-3L	ADVISORY SPEED PLATE (YELLOW) 30 MPH ROAD CURVES AHEAD LEFT	24 X 24 36 x 36		4.00 9.00				
0-0	W13-1	ADVISORY SPEED PLATE (YELLOW) 30 MPH	24 X 24		4.00				
6-7	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
7-1	W1-6	NIGHT ARROW (SINGLE)	48 X 24		8.00	Ŭ	1		
7-2	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
7-3	W1-1L	ROAD TURNS LEFT	36 X 36		9.00		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 30 MPH	24 X 24		4.00				
7-4		LEFT WINDING ROAD						1	1
7-5		LEFT WINDING ROAD						1	1
7-6		ROAD CURVES AHEAD LEFT	36 x 36		9.00		1		
		ADVISORY SPEED PLATE (YELLOW) 30 MPH	24 X 24		4.00	•			
7-7 7-8	W1-8	CHEVRONS (16) ROAD TURNS RIGHT	18 x 24		48.00	8	1		
7-0		ADVISORY SPEED PLATE (YELLOW) 30 MPH	36 X 36 24 X 24		9.00 4.00		'		
7-9		RIGHT CURVE	30 X 30		6.25		1		
7-5		ADVISORY SPEED PLATE (YELLOW) 40 MPH	18 X 18		2.25				
8-1		CHEVRONS (24)	18 x 24		72.00	13			
8-2		LEFT WINDING ROAD	10 / 24		12.00	10		1	1
8-3		LEFT CURVE	30 X 30		6.25		1		
		ADVISORY SPEED PLATE (YELLOW) 40 MPH	18 X 18		2.25				
8-4		LEFT CURVE	30 X 30		6.25		1		
8-5		REVERSE CURVE RIGHT						1	1
8-6	W1-2R	RIGHT CURVE	30 X 30		6.25		1		
		ADVISORY SPEED PLATE (YELLOW) 35 MPH	18 X 18		2.25				
8-7	W1-2R	RIGHT CURVE	30 X 30		6.25		1		

NOTE: ALL ITEMS ARE CATEGORY 10 UNLESS OTHEWISE NOTED.

PROJECT NO: 7894-03-71

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HWY:CTH O

COUNTY: PIERCE

MISCELLANEOUS QUANTITIES

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

SHEET

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HWY:CTH O

SIGN				637.2210 637.2230 SIGNS TYPE II		634.0614 634.0616 POSTS WOOD 4X6-INCH		638.2602 REMOVING	638.3000 REMOVING SMALL
GROUP NUMBER	SIGN CODE	SIGN MESSAGE	SIZE	REFLECTIVE H	REFLECTIVE F SF	14-FT EACH	16-FT EACH	SIGNS TYPE II EACH	SIGN SUPPORTS EACH
9-1	W1-8	CHEV/DONE (44)	10 24		42.00	7			
9-2	W1-4R	CHEVRONS (14) REVERSE CURVE RIGHT	18 x 24		42.00	,		1	1
9-3	W1-2L	LEFT CURVE	30 X 30		6.25		1		·
	W13-1	ADVISORY SPEED PLATE (YELLOW) 35 MPH	18 X 18		2.25				
9-4	W1-5L	WINDING ROAD LEFT (REPLACE)	30 X 30		6.25		1	1	1
0.5	W13-1	ADVISORY SPEED PLATE (YELLOW) 30 MPH	24 X 24		4.00			4	4
9-5 9-6	- W1-8	CAUTION DRIVEWAY AHEAD CHEVRONS (16)	18 x 24		48.00	8		1	1
10-1	W1-8	CHEVRONS (8)	18 x 24		24.00	4			
10-2	-	CAUTION DRIVEWAY AHEAD			21.00			1	1
10-3	W1-1R	ROAD TURNS RIGHT	36 X 36		9.00		1		
40.4	W13-1	ADVISORY SPEED PLATE (YELLOW) 30 MPH	24 X 24		4.00				
10-4 10-5	W1-2R W1-8	RIGHT CURVE	30 X 30 18 x 24		6.25	2	1		
10-6	W1-8	CHEVRONS (4) CHEVRONS (6)	18 x 24		12.00 18.00	2 3			
10-7	W1-2L	LEFT CURVE	30 X 30		6.25	Ü	1		
10-8	W1-8	CHEVRONS (8)	18 x 24		24.00	4			
10-9	W1-5L	WINDING ROAD LEFT	30 X 30		6.25		1		
10.10	W13-1	ADVISORY SPEED PLATE (YELLOW) 30 MPH	18 X 18		2.25				
10-10	W1-5R	WINDING ROAD RIGHT	30 X 30		6.25		1		
11-1	W13-1 W1-8	ADVISORY SPEED PLATE (YELLOW) 30 MPH CHEVRONS (6)	18 X 18 18 x 24		2.25 18.00	3			
11-2	W1-8	CHEVRONS (10)	18 X 24		30.00	3 5			
11-3	W1-8	CHEVRONS (8)	18 x 24		24.00	5			
11-4	W1-5R	WINDING ROAD RIGHT						1	1
11-5	W1-1R	ROAD TURNS RIGHT						1	1
11-6	W1-5L	WINDING ROAD LEFT	30 X 30		6.25		1		
11-7	W13-1 W1-1L	ADVISORY SPEED PLATE (YELLOW) 30 MPH ROAD TURNS LEFT	18 X 18 36 X 36		2.25 9.00		1		
11-7	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH	24 X 24		4.00		'		
11-8	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
12-1	W1-1R		36 X 36		9.00		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH	24 X 24		4.00				
12-2	W1-1R	ROAD TURNS RIGHT						1	1
40.0	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH						1	1
12-3	W1-3R W13-1	ROAD CURVES AHEAD RIGHT ADVISORY SPEED PLATE (YELLOW) 25 MPH						1	ı
12-4	W1-3R	ROAD CURVES AHEAD RIGHT	36 X 36		9.00		1	'	
	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH	24 X 24		4.00				
12-5	W1-8	CHEVRONS (4)	18 x 24		12.00	2			
12-6	W1-3R	ROAD CURVES AHEAD RIGHT						1	1
10.7	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH	26 V 26		9.00		1	1	
12-7	W1-3R W13-1	ROAD CURVES AHEAD RIGHT ADVISORY SPEED PLATE (YELLOW) 25 MPH	36 X 36 24 X 24		4.00		1		
12-8	W1-1R	ROAD TURNS RIGHT	36 X 36		9.00		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH	24 X 24		4.00				
12-9	W1-8	CHEVRONS (2)	18 x 24		6.00	1			
13-1		CHEVRONS (2)	18 x 24		6.00	1	4		
13-2	W13-1L	ROAD TURNS LEFT ADVISORY SPEED PLATE (YELLOW) 25 MPH	36 X 36 24 X 24		9.00 4.00		1		
13-3		LEFT CURVE	30 X 30		6.25		1		
	W13-1		18 X 18		2.25				
13-4	W1-8	CHEVRONS (4)	18 x 24		12.00	2			
13-5	W1-5L		00 1/ 00		0.05			1	1
13-6	W1-2R	RIGHT CURVE ADVISORY SPEED PLATE (YELLOW) 45 MPH	30 X 30		6.25		1		
13-7	W1-3R	ROAD CURVES AHEAD RIGHT	18 X 18 36 X 36		2.25 9.00		1		
10-7	W13-1	ADVISORY SPEED PLATE (YELLOW) 30 MPH	24 X 24		4.00				
13-8	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
13-9	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
13-10		ROAD CURVES AHEAD RIGHT	36 X 36		9.00		1		
13-11	W13-1	ADVISORY SPEED PLATE (YELLOW) 15 MPH ROAD CURVES AHEAD RIGHT	24 X 24 36 X 36		4.00 9.00		1		
13-11	W13-1		24 X 24		4.00		'		
13-12	W1-8	CHEVRONS (10)	18 x 24		30.00	5			
13-13		WATCH FOR TURNING VEHICLES						1	1
13-14	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
13-15	W1-6	NIGHT ARROW (SINGLE)	48 X 24		8.00		1		
13-16 13-17	W1-6 W1-3R	NIGHT ARROW (SINGLE)	48 X 24		8.00		1		
13-17	W13-1	ROAD CURVES AHEAD RIGHT ADVISORY SPEED PLATE (YELLOW) 15 MPH	36 X 36 24 X 24		9.00 4.00		'		
13-18	R1-1	STOP	30 X 30	5.18			1	1	1
	W13-1	ADVISORY SPEED PLATE (YELLOW) 15 MPH	18 X 18		2.25				

NOTE: ALL ITEMS ARE CATEGORY 10 UNLESS OTHEWISE NOTED.

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PROJECT NO: 7894-03-71 FILE NAME: P:\PIERC\15002 - CTH 0\cad\MQCTH004.dgn

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PLOT DATE: 4/11/2017

COUNTY: PIERCE

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

MISCELLANEOUS QUANTITIES

PLOT SCALE: \$\$.....plotscale.....\$\$ wisdot/cadds sheet 42

SHEET

PERMANENT SIGNING ITEMS (CONTINUED)

REPLECTIVE H REFLECTIVE F 14-FT 16-FT SIGNS TYPE II SIGN SUPPORTS	SIGN				637.2210 SIGNS	637.2230 TYPE II	634.0614 POSTS WOO	634.0616 DD 4X6-INCH	638.2602 REMOVING	638.3000 REMOVING SMALL
14-1 W1-3R ROAD CURVES AHEAD RIGHT W1-3F ADVISORY SPEED PLATE (YELLOW) 30 MPH 24 X 24 400 414-1	GROUP	SIGN			REFLECTIVE H	REFLECTIVE F	14-FT	16-FT	SIGNS TYPE II	SIGN SUPPORTS
Wilson	NUMBER	CODE	SIGNMESSAGE	SIZE	SF	SF	EACH	EACH	EACH	EACH
W3-1 ADVISORY SPEED PLATE (YELLOW) 30 MPH 24 X 24 4.00 4 18 × 24 4.00 4 18 × 24 24.00 4 18 × 24 24.00 4 18 × 24 24.00 4 18 × 24 24.00 4 18 × 24 24.00 4 18 × 24 24.00 4 18 × 24 24.00 18 × 24 28.00 18 × 24 28.00 7 28.00										
14-2 W1-8 CHEVRONS (8) 18 x 24 24.00 4 W1-4L REVERSE CURVE LEFT 30 X 30 6.25 1 W1-4L REVERSE CURVE LEFT 30 X 30 6.25 1 W1-5L W1-5L WINDING ROAD LEFT 1 W1-5L WINDING ROAD LEFT 36 X 36 9.00 1 W1-7L WINDING ROAD LEFT 36 X 36 9.00 1 W1-7L WINDING ROAD LEFT 36 X 36 9.00 7 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 30 6.25 1 W1-7L WINDING ROAD LEFT 30 X 36 9.00 1 W1-7L WINDING ROAD LEFT 30 X 36 9.00 1 W1-7L WINDING ROAD LEFT 30 X 36 9.00 1 W1-7L WINDING ROAD LEFT 30 X 36 9.00 1 W1-7L WINDING ROAD LEFT 30 X 36 9.00 1 W1-7L WINDING ROAD WATER (YELLOW) 25 MPH 24 X 24 4 4.00 4 4.	14-1							1		
14-3	44.0									
W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 1							4			
14-4 W1-5L WINDING ROAD LEFT 14-5 W1-3R ROAD CURVES AHEAD RIGHT 36 X 36 9.00 1 14-6 W1-3R ROAD CURVES AHEAD RIGHT 36 X 36 9.00 1 14-7 W1-8 CHEVRONS (14) 18 x 24 4.00 1 14-7 W1-8 CHEVRONS (16) 18 x 24 4.00 7 14-8 W1-5L WINDING ROAD LEFT	14-3							1		
14-5 W1-8 CHEVRONS (4) 18 × 24 12.00 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44.4			18 X 18		2.25			4	4
14-6 W1-3R ROAD CURVÉS AHEAD RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 30 MPH 24 X 24 4.00 7 14-7 W1-8 CHEVRONS (14) 18 x 24 42.00 7 14-8 W1-5-1 W10-1 W1				10 4 24		12.00	2		1	1
M3-1 ADVISORY SPEED PLATE (YELLOW) 30 MPH 24 X 24 4.00 7							2	1		
14-7 W1-8 CHEVRONS (14) 18 x 24 42.00 7 14-8 W1-5L WINDING ROAD LEFT 1 14-9 W1-8 CHEVRONS (6) 18 x 24 18.00 3 15-1 W1-8 CHEVRONS (10) 15 x 24 30.00 5 15-2 W1-4L REVERSE CURVE LEFT 30 x 30 6.25 1 W1-3-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 W1-1-1 ROAD TURNS RIGHT 36 x 36 9.00 1 15-4 W1-8 CHEVRONS (12) 18 x 24 4.00 3 15-5 W1-8 CHEVRONS (12) 18 x 24 36.00 6 15-6 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 15-7 W1-2L LEFT CURVE 30 x 30 6.25 1 W1-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 24 X 24 4.00 1 15-7 W1-2L LEFT CURVE 30 x 30 6.25 1 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 15-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 x 18 2.25 1 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 15-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 x 18 2.25 1 15-8 W1-8 CHEVRONS (12) 18 x 24 4.00 1 15-7 W1-2L RIGHT CURVE 30 x 30 6.25 1 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2 RIGHT CURVE 30 x 30 6.25 1 16-1 W1-2 RIGHT CURVE 30 x 30 6.25 1 16-2 W1-5 RIGHT CURVE 30 x 30 6.25 1 16-3 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 1 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 1 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 1 16-5 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 16-6 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 16-7 ROAD TURNS LEFT 36 x 36 9.00 1 16-8 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 16-9 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 16-1 W1-2 RIGHT CURVE 30 x 30 5 6.25 1 16-3 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 4 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 4 16-5 W1-1 ROAD TURNS LEFT 36 x 36 9.00 1 16-6 W1-1 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 16-7 ROAD TURNS RIGHT 36 x 36 9.00 1 17 ROAD TURNS RIGHT 36 x 36 9.00 1 18 ROAD TURNS RIGHT 36 x 36 9.00 1 18 ROAD TUR	14-0							'		
14-8 W1-5L WINDING ROAD LEFT 1 1 1 1 1 1 1 1 1	14-7						7			
14-9 W1-8 CHEVRONS (6) 18 x 24 30.00 5 15-1 W1-8 CHEVRONS (10) 18 x 24 30.00 5 15-2 W1-4L REVERSE CURVE LEFT 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 W1-14R ROAD TURNS RIGHT 36 X 36 9.00 1 15-4 W1-8 CHEVRONS (6) 18 x 24 18.00 3 15-5 W1-8 CHEVRONS (6) 18 x 24 36.00 6 15-6 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 24 X 24 4.00 15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 W1-15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 W1-15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 W1-15-7 W1-12L LEFT CURVE 30 X 30 6.25 1 W1-15-7 W1-12L LEFT CURVE 40 X 36.00 6 W1-15-7				10 X 24		42.00	,		1	1
15-1 W1-8 CHEVRONS (10) 18 x 24 30.00 5 15-2 W1-4L REVERSE CURVE LEFT 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 15-3 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 24 X 24 4.00 15-4 W1-8 CHEVRONS (6) 18 x 24 36.00 6 15-5 W1-8 CHEVRONS (2) 18 x 24 36.00 6 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 15-7 W1-12 LEFT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 24 X 24 4.00 15-8 W1-8 CHEVRONS (12) 18 x 24 4.00 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R RIGHT CURVE 30 X 30 6.25 1 W13-1 ROAD TURNS LEFT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 36 9.00 1 1-1 COAD TURNS RIGHT 36 X 30 TURNS RIGH				18 x 24		18.00	3		'	·
15-2 W1-4L REVERSE CÜRVÉ LEFT 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 15-3 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 24 X 24 4.00 15-4 W1-8 CHEVRONS (6) 18 x 24 18.00 3 15-5 W1-8 CHEVRONS (12) 18 x 24 36.00 6 15-6 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 18 X 18 2.25 15-8 W1-8 CHEVRONS (12) 18 x 24 4.00 15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 1 1 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 10-1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 4.00 16-6 - SCENIC ROAD/WINDING ROAD 11 1 1										
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15-5 W1-8 CHEVRONS (12) 18 x 24 36.00 6 15-6 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 15-8 W1-8 CHEVRONS (12) 18 x 24 4.00 15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 16-2 W1-5R W1NDING ROAD RIGHT 4 4.00 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 4 16-6 - SCENIC ROAD/WINDING ROAD 16-6 - SCENIC ROAD/WINDING ROAD 17 1		W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH	24 X 24		4.00				
15-6 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 24 X 24 4.00 15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 16-4 W1-8 CHEVRONS (8) 18 x 24 4.00 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 4 16-6 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 4 16-6 - SCENIC ROAD/WINDING ROAD 11 1 16-6 - SCENIC ROAD/WINDING ROAD 11 1	15-4	W1-8	CHEVRONS (6)	18 x 24		18.00	3			
W13-1 ADVISORY SPEED PLATE (YELLOW) 25 MPH 24 X 24 4.00	15-5	W1-8	CHEVRONS (12)	18 x 24		36.00	6			
15-7 W1-2L LEFT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 24.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 16-6 - SCENIC ROAD/WINDING ROAD MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD MPH 24 X 24 4.00 1 16-6 - SCENIC ROAD/WINDING ROAD MPH 24 X 24 4.00 1 16-7 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 1 16-8 - SCENIC ROAD/WINDING ROAD MPH 24 X 24 4.00 1 16-9 SCENIC ROAD/WINDING ROAD 1 1 1 1	15-6	W1-1L	ROAD TURNS LEFT	36 X 36		9.00		1		
W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 18 X 18 2.25 15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 1 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 24.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD 1 1		W13-1	ADVISORY SPEED PLATE (YELLOW) 25 MPH	24 X 24		4.00				
15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 1 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 24.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD 1 1	15-7	W1-2L	LEFT CURVE	30 X 30		6.25		1		
15-8 W1-8 CHEVRONS (12) 18 x 24 36.00 6 16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 1 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 24.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD 1 1		W13-1	ADVISORY SPEED PLATE (YELLOW) 35 MPH	18 X 18		2.25				
16-1 W1-2R RIGHT CURVE 30 X 30 6.25 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 1 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 24.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD 1 1	15-8		, ,				6			
W13-1 ADVISORY SPEED PLATE (YELLOW) 35 MPH 24 X 24 4.00 16-2 W1-5R WINDING ROAD RIGHT 1 1 1 16-3 W1-1L ROAD TURNS LEFT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-4 W1-8 CHEVRONS (8) 18 x 24 24.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD 1 1			` '				-	1		
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16-4 W1-8 CHEVRONS (8) 18 x 24 24.00 4 16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD 1 1	10-5							'		
16-5 W1-1R ROAD TURNS RIGHT 36 X 36 9.00 1 W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH 24 X 24 4.00 16-6 - SCENIC ROAD/WINDING ROAD 1 1 1	16.4		` ,				4			
W13-1 ADVISORY SPEED PLATE (YELLOW) 20 MPH			. ,				4			
16-6 - SCENIC ROAD/WINDING ROAD 1 1	16-5							1		
			, ,	24 X 24		4.00				
ITEM TOTAL 5.18 1540.25 168 54 35 30	16-6	-	SCENIC ROAD/WINDING ROAD						1	1
	ITEM TOTAL				5.18	1540.25	168	54	35	30

NOTE: ALL ITEMS ARE CATEGORY 10 UNLESS OTHEWISE NOTED.

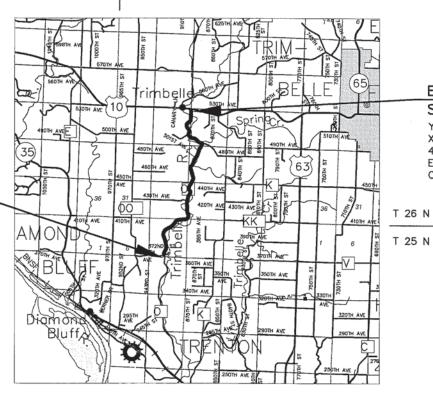
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PROJECT NO:7894-03-71 HWY:CTH O COUNTY:PIERCE MISCELLANEOUS QUANTITIES SHEET

CONVENTIONAL ABBREVIATIONS ACCESS RIGHTS POINT OF COMPOUND CURVE PCC POINT OF INTERSECTION AHEAD PROPERTY LINE ALUMINUM ALUM RECORDED AS (100')AND OTHERS ET AL REFERENCE LINE R/L BACK REM REMAINING BLOCK BLK RIGHT CENTERLINE RIGHT OF WAY R/W C/L CERTIFIED SURVEY MAP CSM SECTION SEC CONCRETE SEPTIC VENT COUNTY SQUARE FEET COUNTY TRUNK HIGHWAY CTH STATE TRUNK HIGHWAY STH DISTANCE DIST STATION STA CORNER COR SUBDIVISION SUBD DOCUMENT NUMBER DOC TANGENT TAN EASEMENT EASE TELEPHONE PEDESTAL **EXISTING** TEMPORARY LIMITED TLE EX GAS VALVE EASEMENT GRID NORTH GN TRANSPORTATION PROJECT TPP HIGHWAY EASEMENT HE IDENTIFICATION UNITED STATES HIGHWAY USH LAND CONTRACT LC VOLUME MONUMENT MON CURVE DATA NATIONAL GEODETIC SURVEY LONG CHORD NUMBER NO LONG CHORD BEARING OUTLOT OL RADIUS PAGE DEGREE OF CURVE POINT OF TANGENCY PT CENTRAL ANGLE OR DELTA PERMANENT LIMITED PLE LENGTH OF CURVE EASEMENT TANGENT POINT OF BEGINNING DIRECTION AHEAD POINT OF CURVATURE PC DIRECTION BACK DB CONVENTIONAL UTILITY SYMBOLS WATER GAS TELEPHONE OVERHEAD TRANSMISSION LINES ELECTRIC CABLE TELEVISION FIBER OPTIC SANITARY SEWER STORM SEWER

SECTION LINE QUARTER LINE SIXTEENTH LINE NEW REFERENCE LINE NEW R/W LINE EXISTING R/W LINE PROPERTY LINE LOT, TIE & OTHER MINOR LINES CORPORATE LIMITS 111111111 UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (TYPE) FEE ACQUISITION AREA (HATCHING VARIES BY OWNER) TEMPORARY LIMITED EASEMENT AREA EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT) BUILDING NATIONAL GEODETIC SURVEY MONUMENT SIXTEENTH CORNER MONUMENT

CONVENTIONAL SYMBOLS SECTION R/W MONUMENT NON-MONUMENTED O R/W POINT NOTATION FOR COMBUSTABLE CAUTION FOUND IRON PIN FLUIDS WATER, ETC.) NOTATION FOR sign HIGH VOLTAGE SIGN OFF-PREMISE TRANSMISSION LINES COMPENSABLE NON-COMPENSABLE ELECTRIC POLE Ь TELEPHONE POLE PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.) ACCESS CONTROLLED BY ACQUISITION NO ACCESS (BY STATUTORY AUTHORITY)******** ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL) PARCEL NUMBER (25) BRIDGE UTILITY NUMBER R 19 W R 18 W



LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 4.830 MI.

1 Mi.

END RELOCATION ORDER STA. 540+00.00

Y=316,874.779 X=458.909.380 492.23 FEET SOUTH AND 4.50 FEET EAST OF THE NORTHWEST CORNER OF SECTION 21, T26N, R18W.

T 26 N

R/W PROJECT NUMBER

C.T.H. O

FEDERAL PROJECT NUMBER

7894-03-01

CONSTRUCTION PROJECT NUMBER

PLAT OF RIGHT-OF-WAY REQUIRED FOR

TRIMBELLE - STH 35

STH 35 - USH 10

SHEET TOTAL UMBER SHEET

PIERCE CO.

9

ORIGINAL PLANS PREPARED BY 770 TECHNOLOGY WAY CHIPPEWA FALLS, WI 54729 ************* SCONS NEIL C. BOWE S-2827 CHIPPEWA FALLS W WO SURVEYOR Vlix C. Bow DATE: 10-15-16

PIERCE COUNTY

(Signature)

APPROVED FOR PIERCE/COUNTY

REVISION DATE

DATE: 1-26-17

BEGIN RELOCATION ORDER

STA. 285+00.00

Y=295,989.995 X = 455,760.027

412.10 FEET WEST AND 105.54 FEET SOUTH OF THE SOUTH 1/4 CORNER OF SECTION 5, T25N, R18W.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, PIERCE COUNTY, NADB3(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

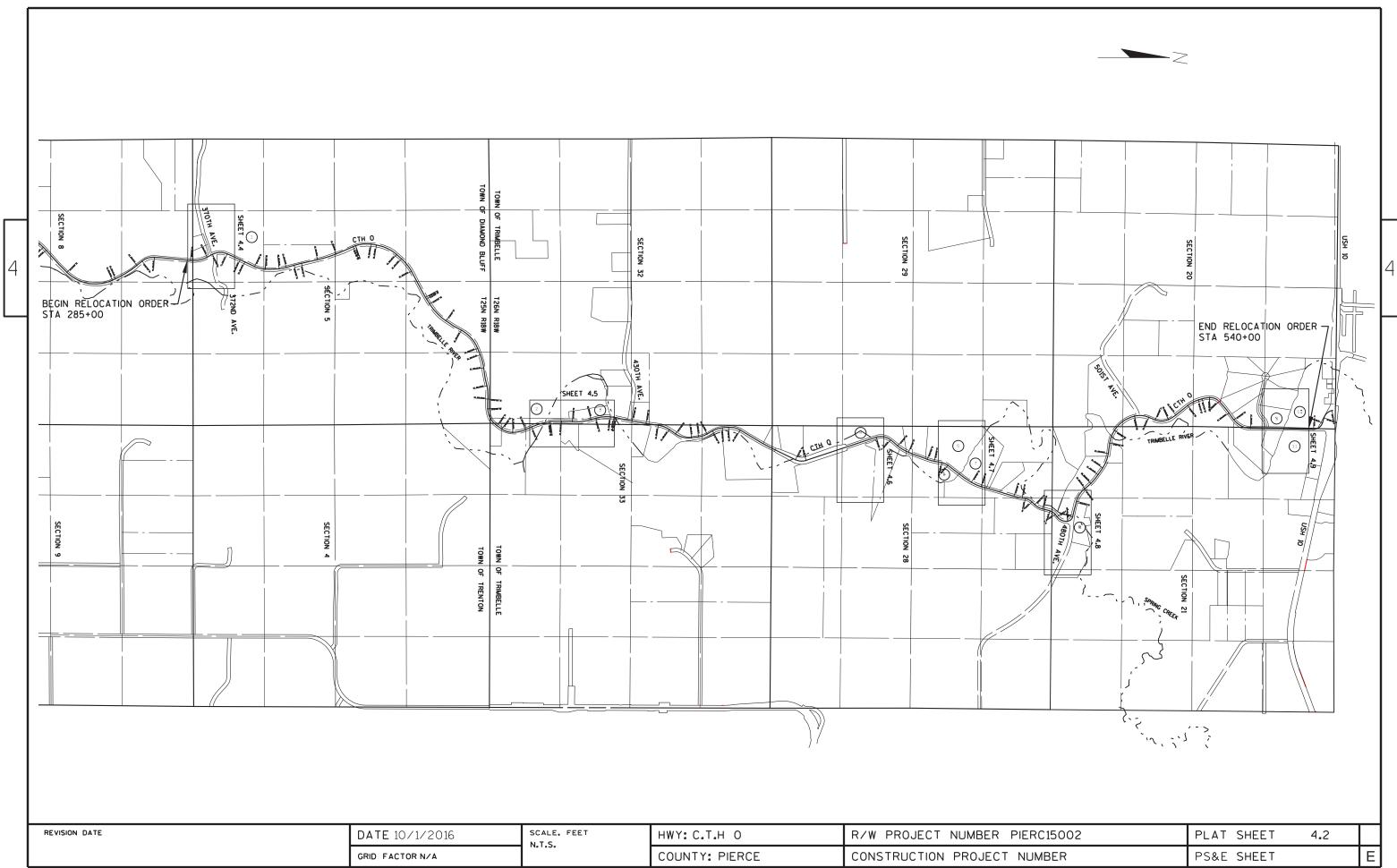
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT—OF—WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SUBVEY.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT PIERCE COUNTY HIGHWAY



SCHEDULE OF LANDS & INTERESTS REQUIRED OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W NEW	R/W ACRES REQUIRED		TOTAL ACRES REMAINING	TLE ACRES
					INE W	EXISTING	TOTAL	11211111111111	
1	4.4	DAVID L. KINNEMAN	FEE,TLE	24.00	0.02	0.08	0.10	23.90	0.01
2	4.5	MARK KEARNS	TLE	-	-	-	-	-	0.02
3	4.5	GEORGE SMITH	TLE	-	-	-	-	-	0.07
4	4.6	MICHAEL T. BERG	TLE	-	-	-	-	-	0.06
5	4.7	JEFFREY & CYNTHIA KLEIN	TLE	-	-	-	-	-	0.02
6	4.7	JAMES & CYNTHIA OGDEN	TLE	-	-	-	-	-	0.02
7	4.7	THOMAS COGAN	TLE	-	-	-	-	-	0.03
8	4.8	MICHAEL & SUZANNE HOLST	FEE	5.05	0.02	-	0.02	5.03	-
9	4.9	PAULA SUSLA	TLE	-	-	-	-	-	0.03
10	4.9	GAS LIGHT LLC.	FEE	16.73	0.09	0.08	0.15	16.58	-
11	4.9	CHARLES & DEBRA FOY	FEE	28.50	0.08	0.23	0.31	28.19	-
50	4.4	BEVCOMM	RELEASE OF F	RIGHTS	•	•		•	•

REVISION DATE

DATE 10-1-16 GRID FACTOR N/A SCALE, FEET

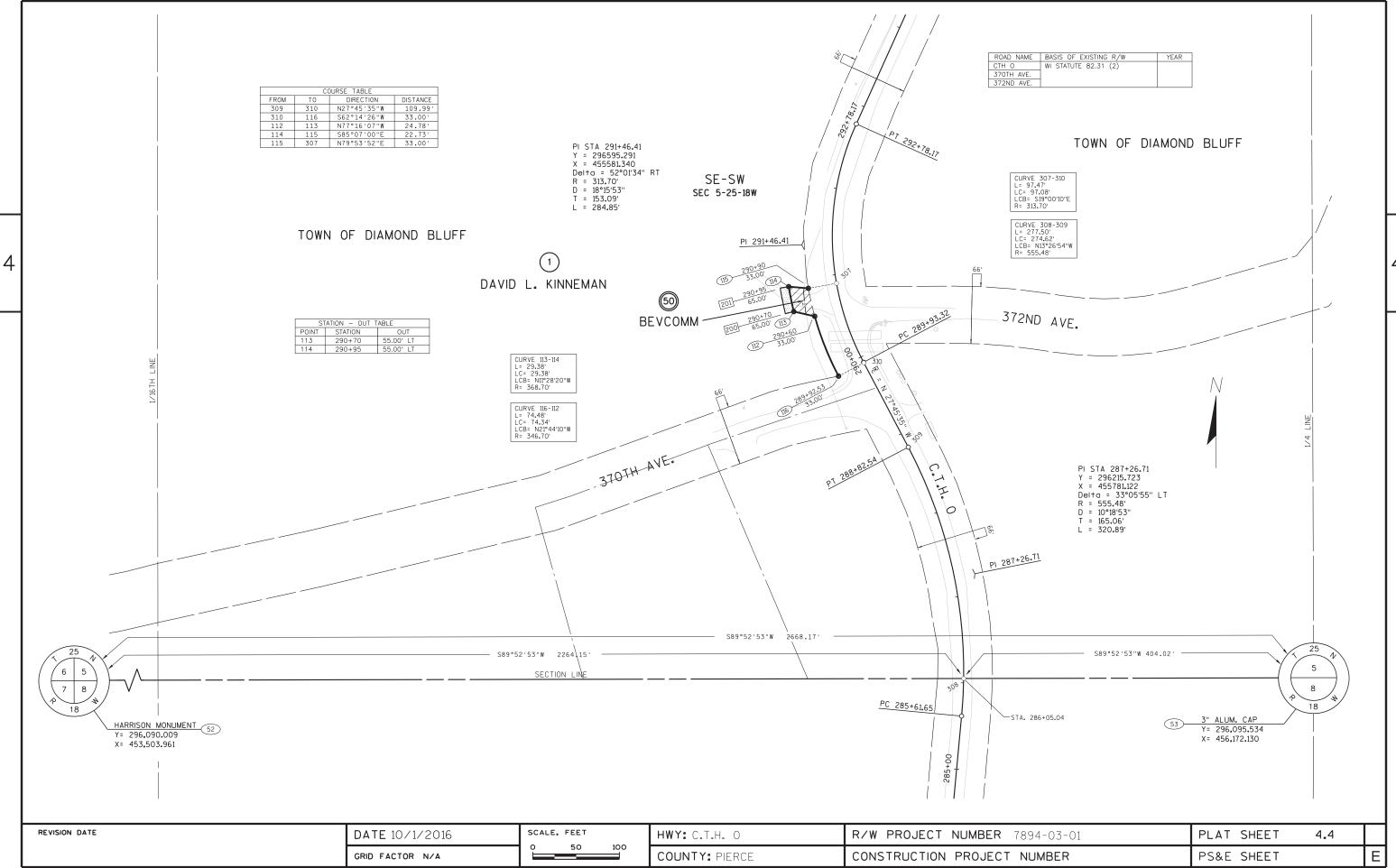
HWY: C.T.H. O COUNTY: PIERCE R/W PROJECT NUMBER

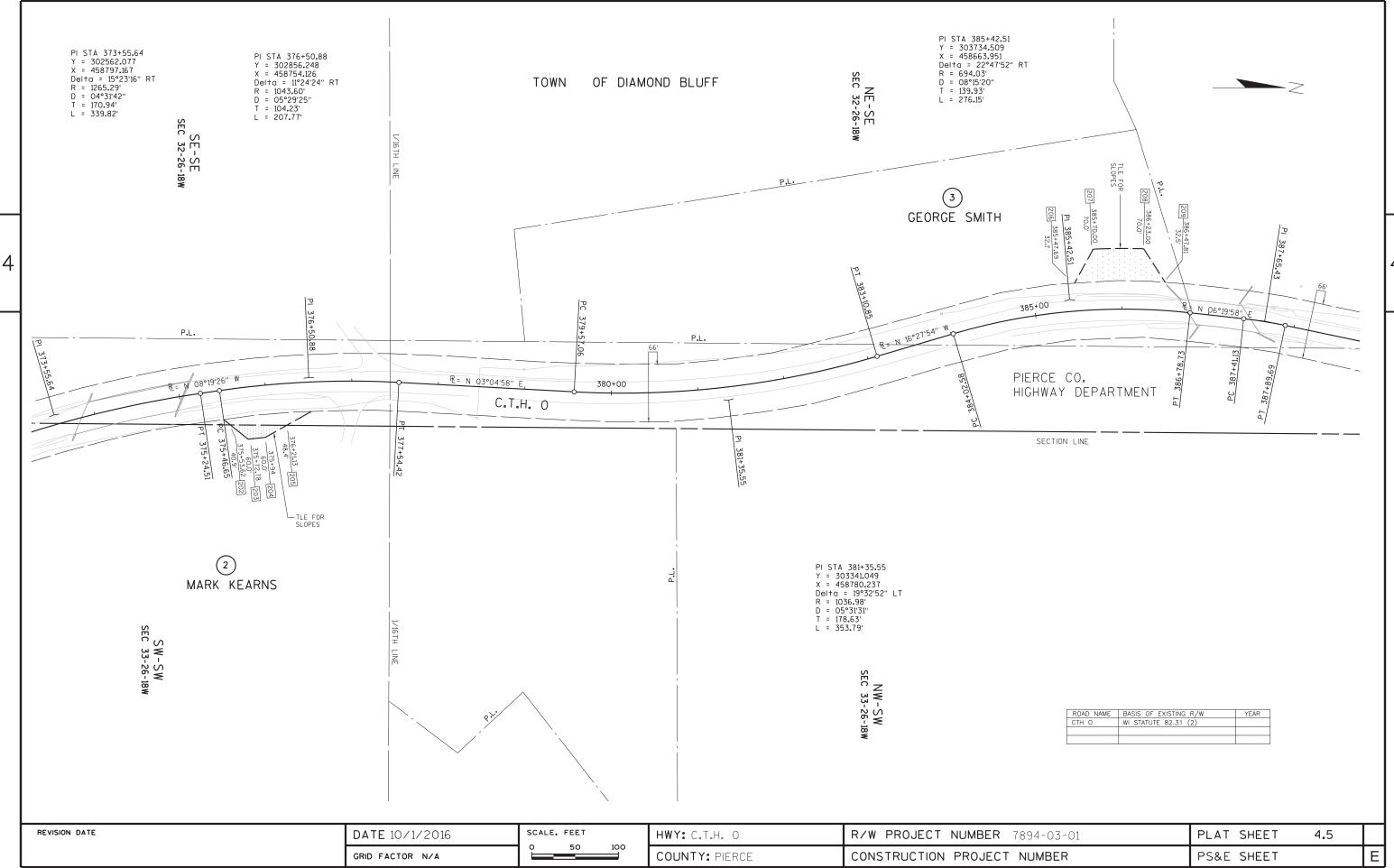
PROJECT NUMBER

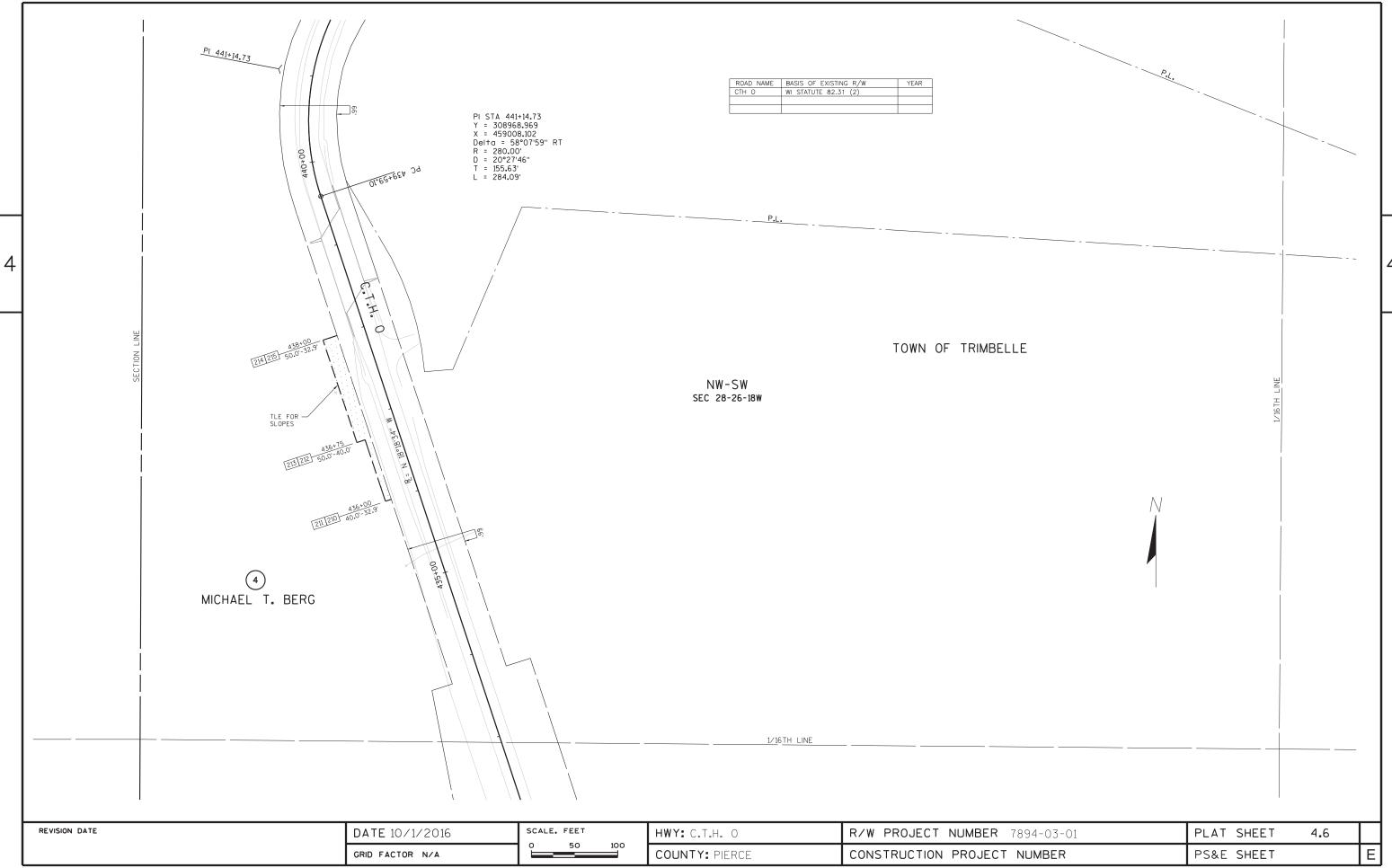
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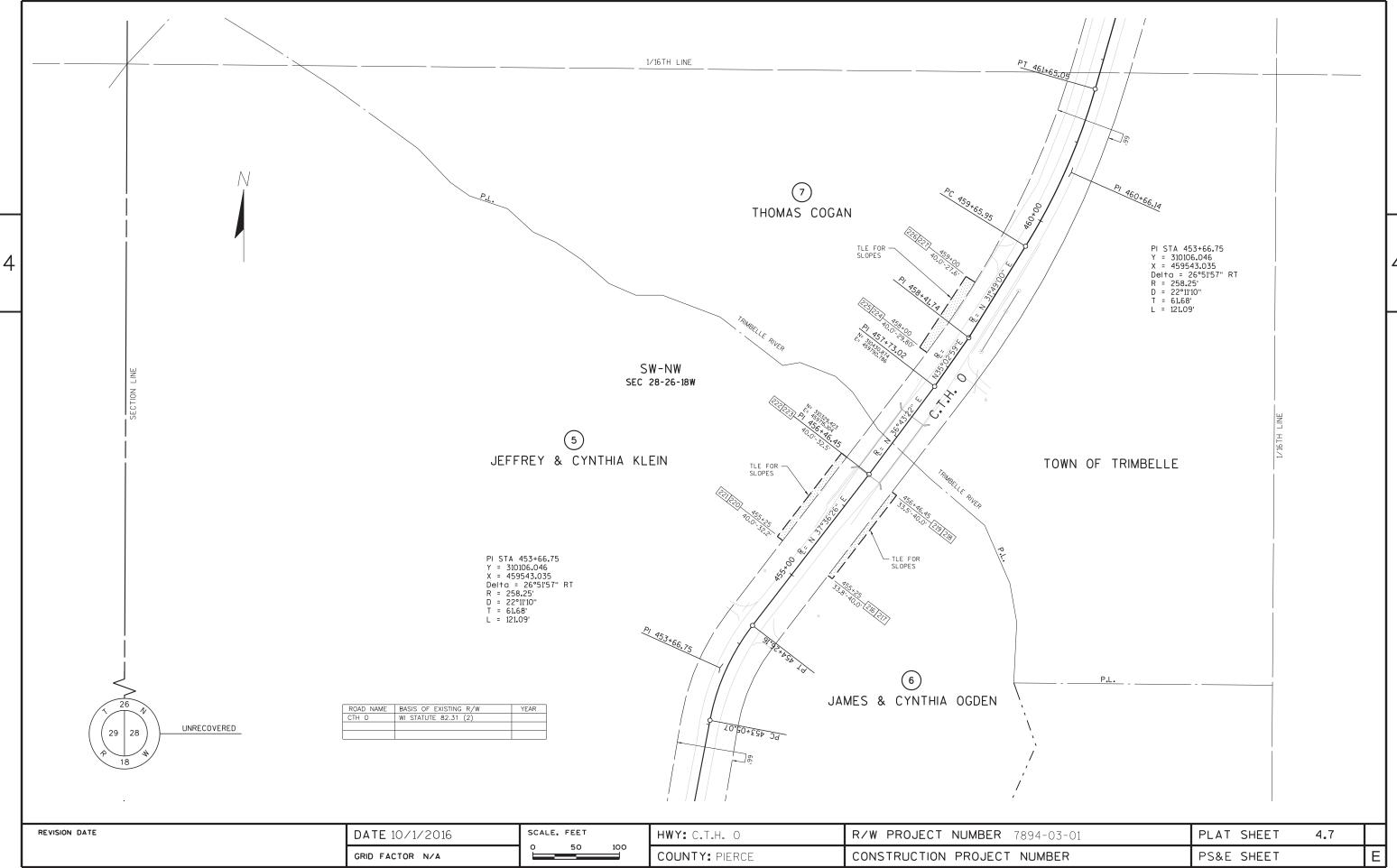
PLAT SHEET

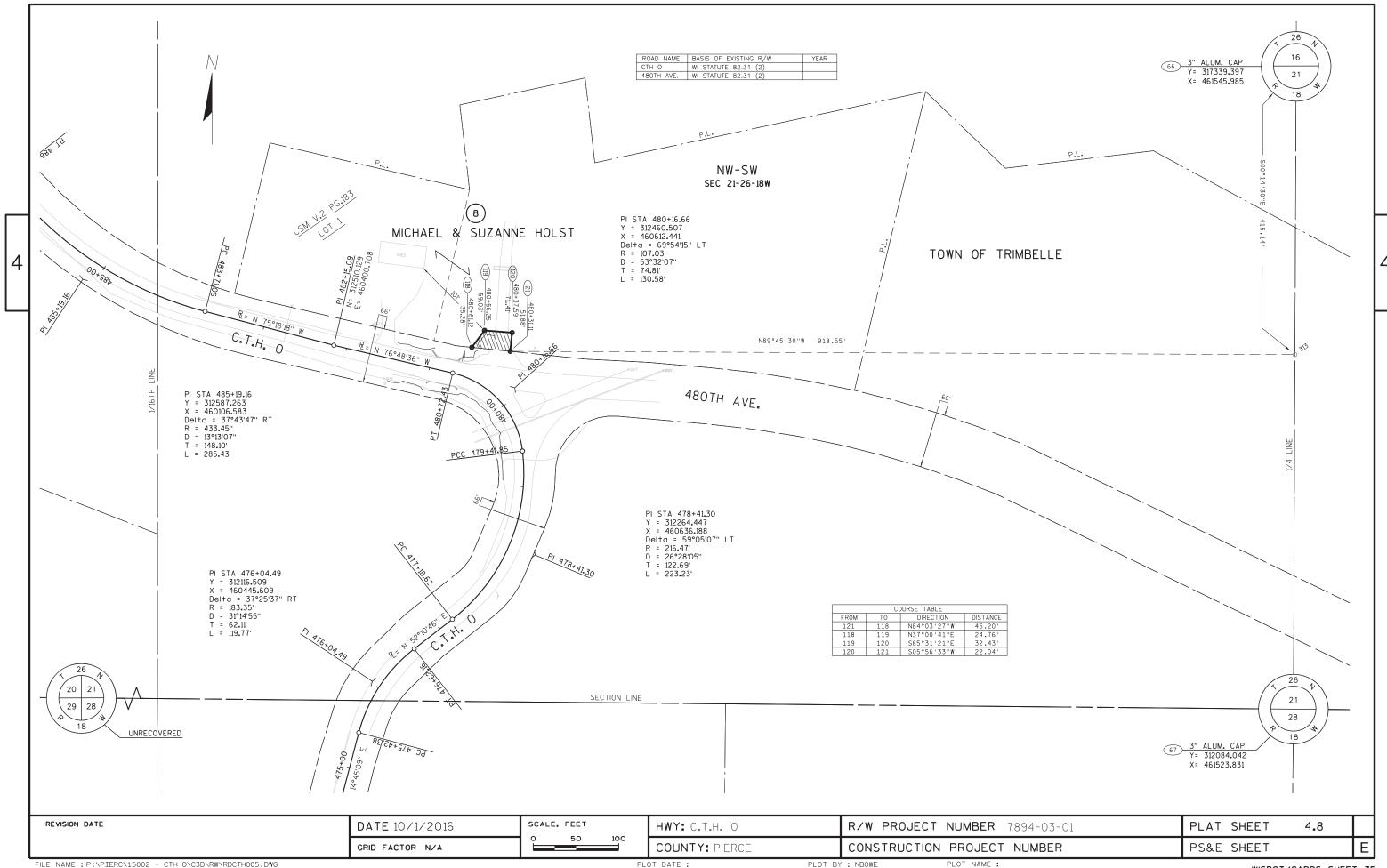
4.3 PS&E SHEET

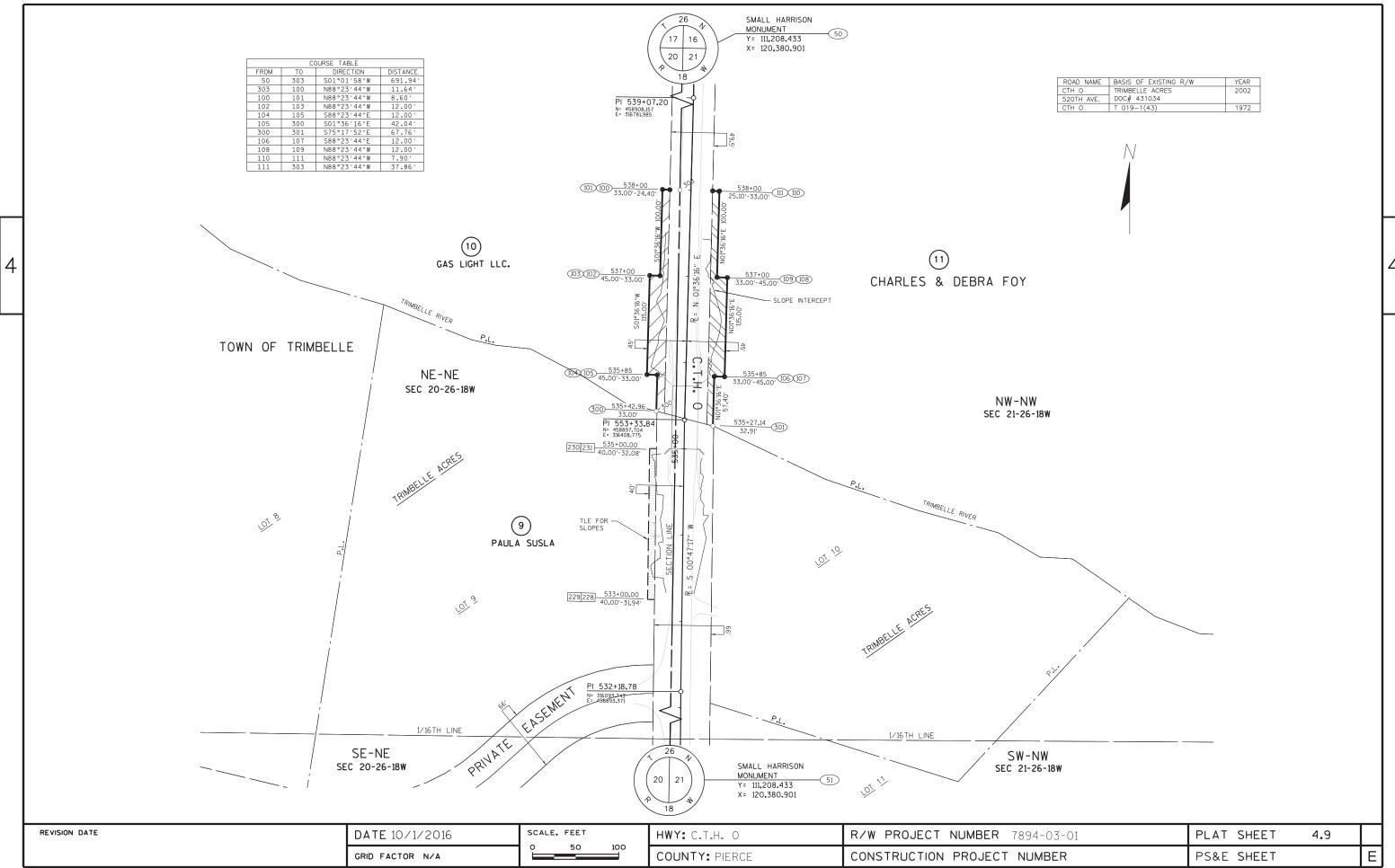












Standard Detail Drawing List

08E09-06	SILT FENCE
14B15-09A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B16-04A	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11E	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
14B20-11G	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B25-01	STEEL PLATE BEAM GUARD, CLASS "A", OVER LOW FILL CULVERTS
14B27-01A	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

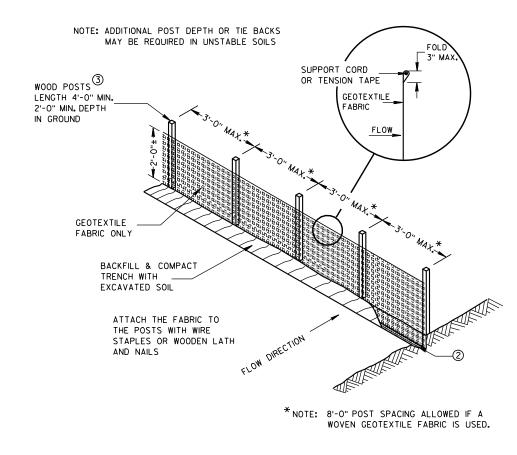
TYPICAL APPLICATION OF SILT FENCE

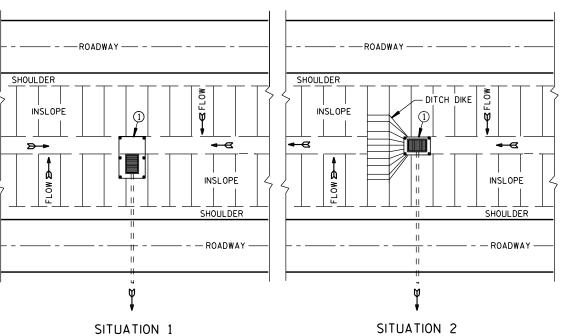
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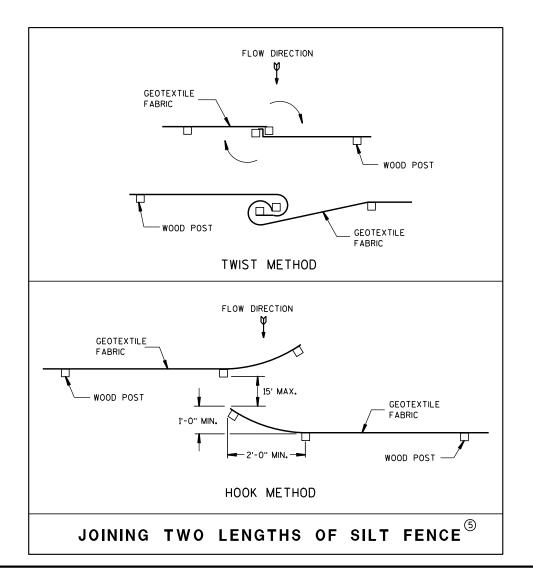
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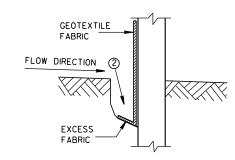
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



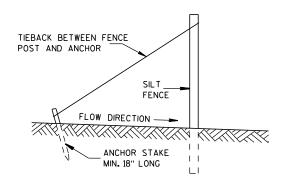
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

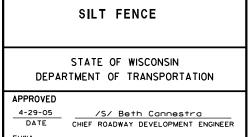


TRENCH DETAIL



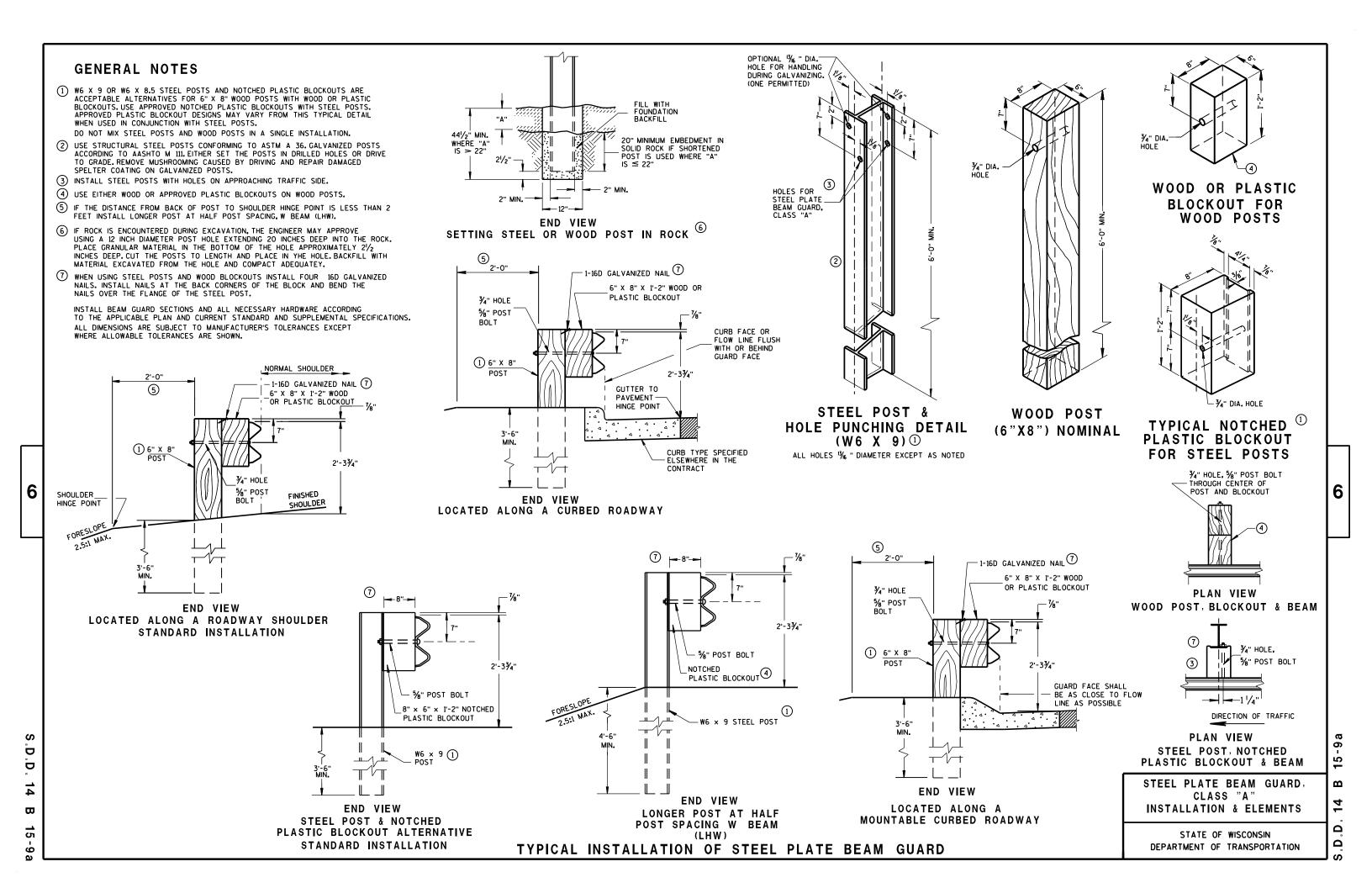
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

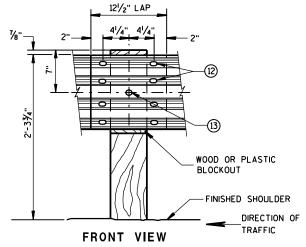


FRONT VIEW

POST SPACING STANDARD INSTALLATION

3/6" R 11/1/6" R 3/6" R 11/1/2" SYMMETRICAL ABOUT € 12 GAGE 10 31/4"

SECTION THRU W BEAM



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

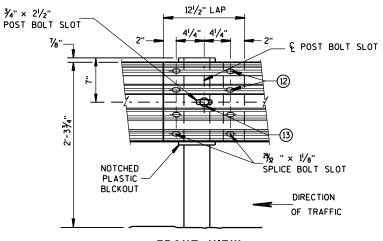
GENERAL NOTES

- (8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
- 9 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- (11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (12) 8 -5%" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 3 %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER UNDER NUT.

I2'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1

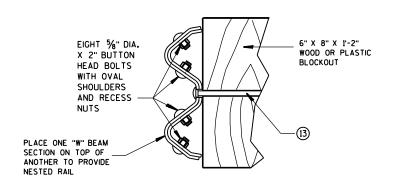
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS
OF STEEL PLATE BEAM GUARD

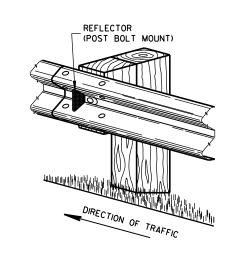


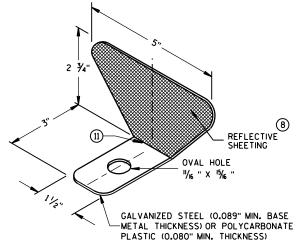
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

	9
REFLECTOR	SPACING

	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY	< 200'	50' C-C	1	3
TRAFFIC	> 200'	100' C-C	1	
TWO WAY	< 500,	25' C-C 50' C-C	1 10	6
			-	
TWO WAY TRAFFIC	> 500,	50' C-C 100' C-C	2(11)	3





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 1

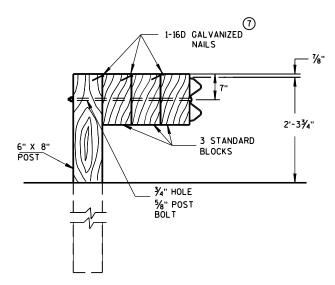
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DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

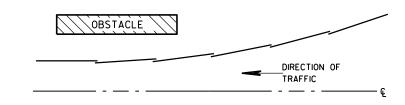


DETAIL FOR TRIPLE BLOCKS

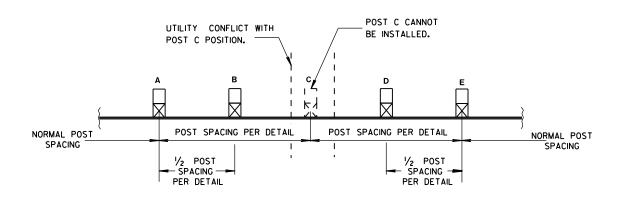
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS 6

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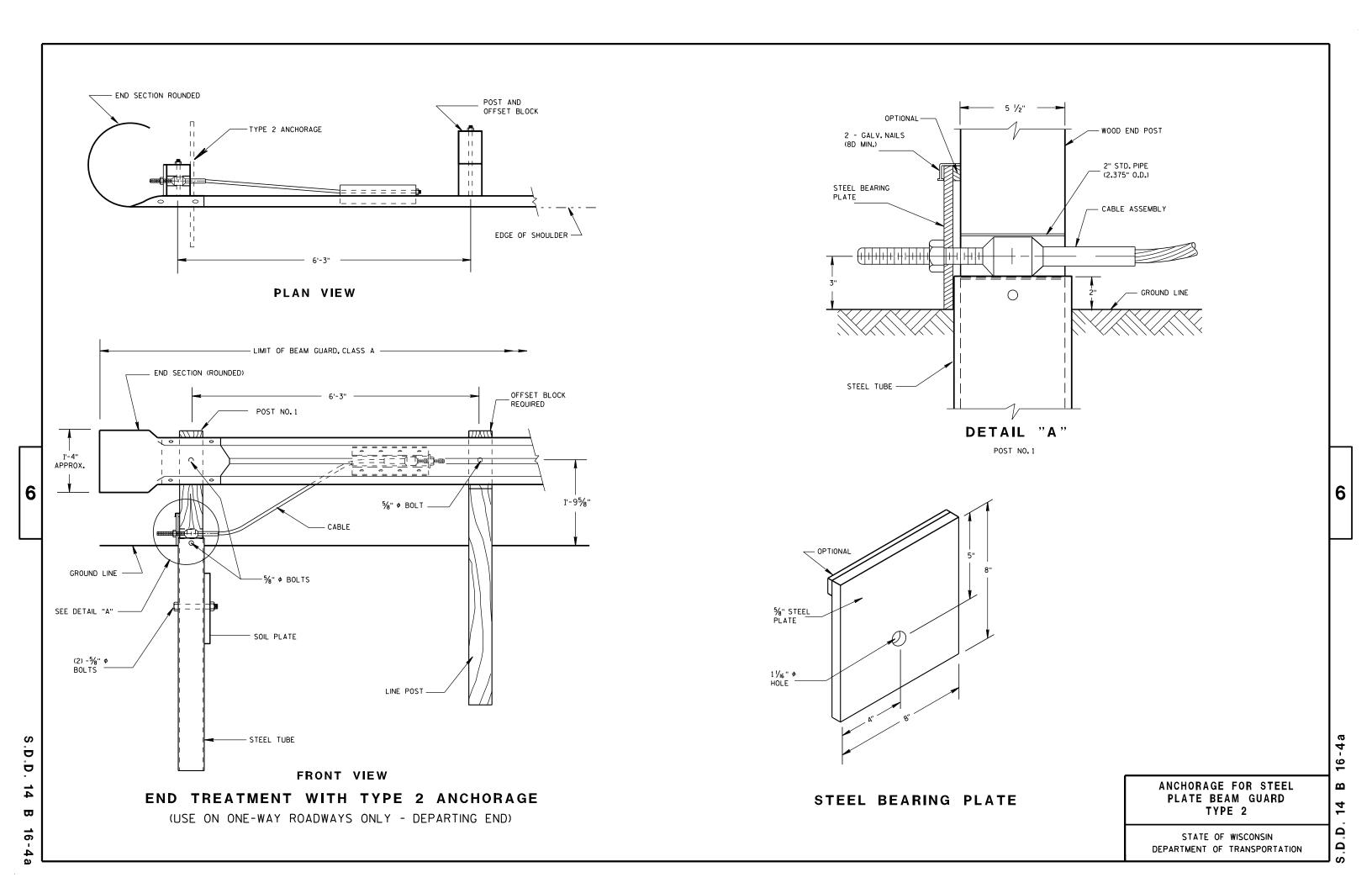
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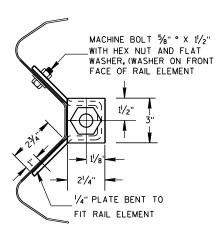
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016
DATE
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

D.D. 14 B 15-9c

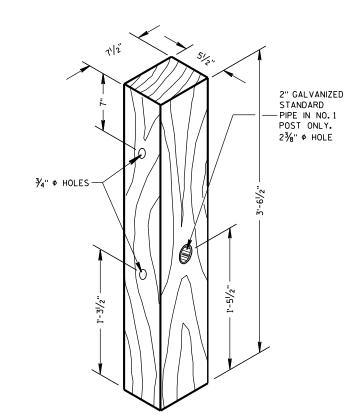




FRONT VIEW

END VIEW

ANCHOR PLATE DETAIL



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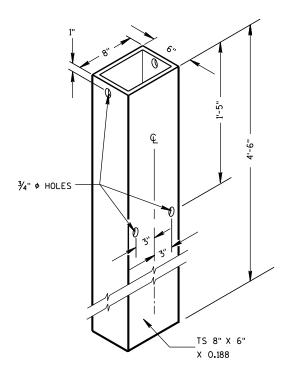
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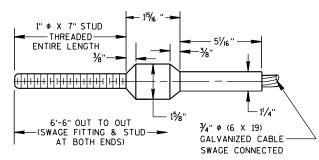
WOOD BREAKAWAY POST



STEEL TUBE

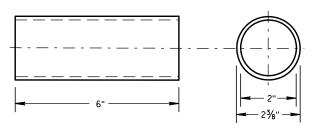
STEEL TUBE SHALL CONFORM TO REQUIREMENTS OF ASTM A500

END VIEW OF BRACKET



CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP A MINIMUM BREAKING STRENGTH OF 40,000 LB (TIGHTEN UNTIL TAUT)



BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"

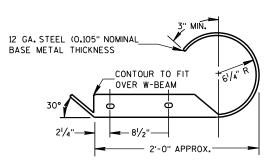
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THW STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

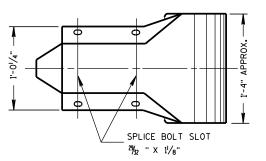
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO.1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

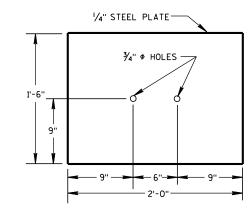
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW



FRONT VIEW W BEAM END SECTION ROUNDED



SOIL PLATE

ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

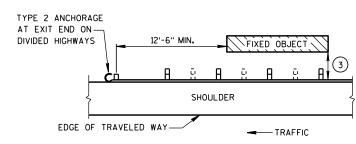
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER 8/21/2007

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BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

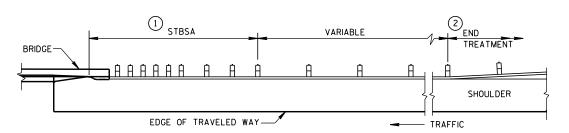
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

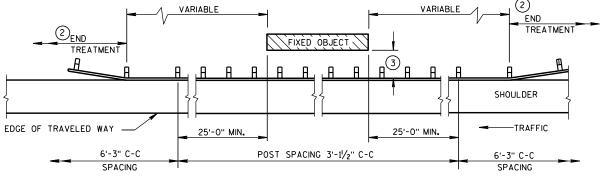
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"

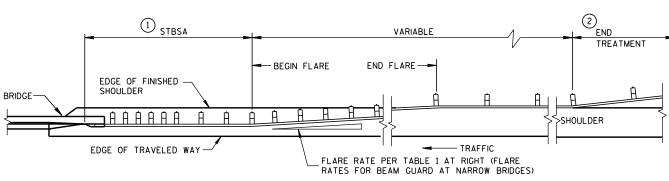


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAI	M GUARD	AT	NAR	ROW B	RID	GES
(FLARED TO	SHOULDER	EDGE,	THEN	PARALLE	L TO	ROADWAY)

TABLE 1
FLARE RATES FOR BEAM
GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWΔ	ENGINEER

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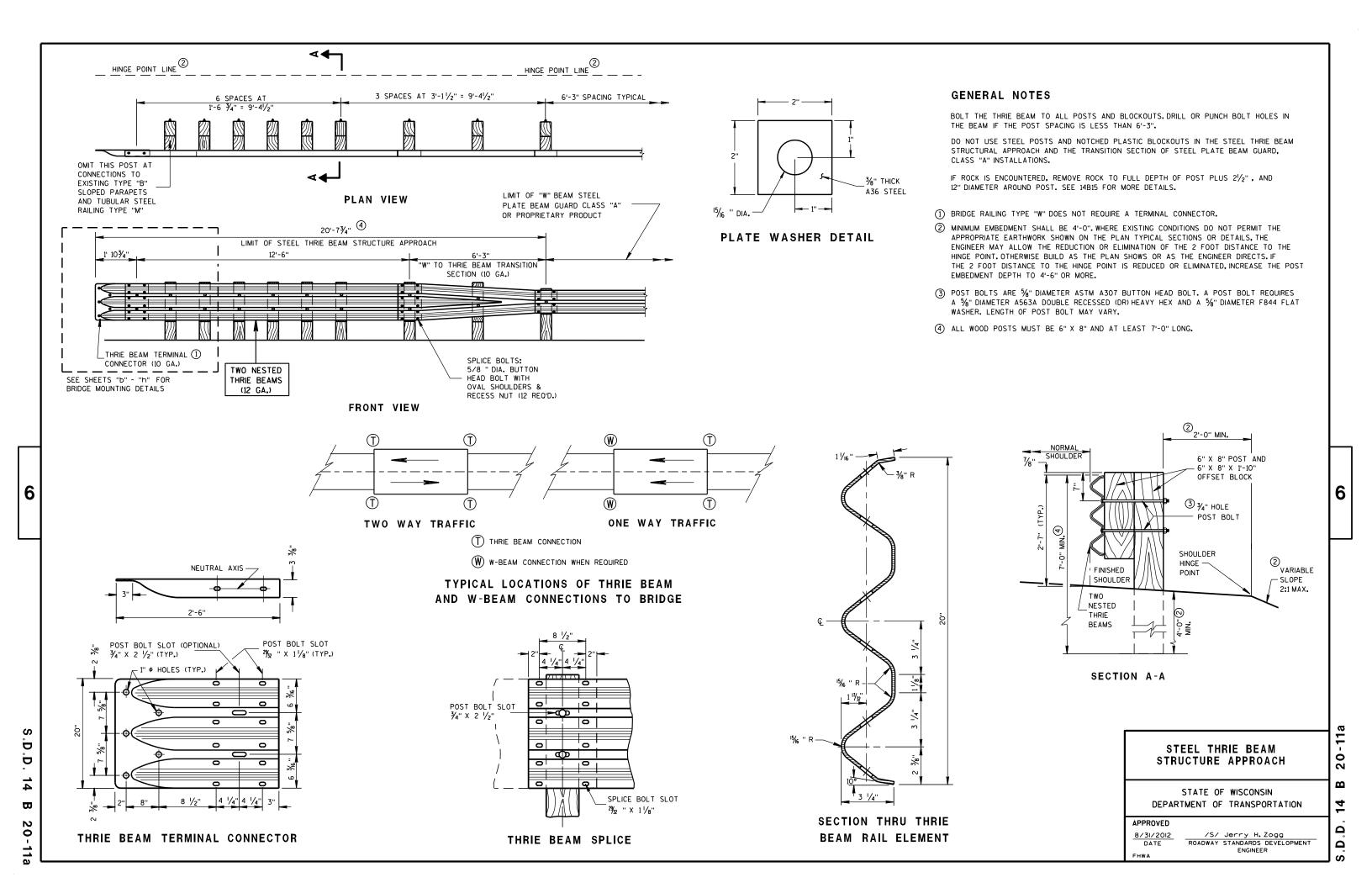
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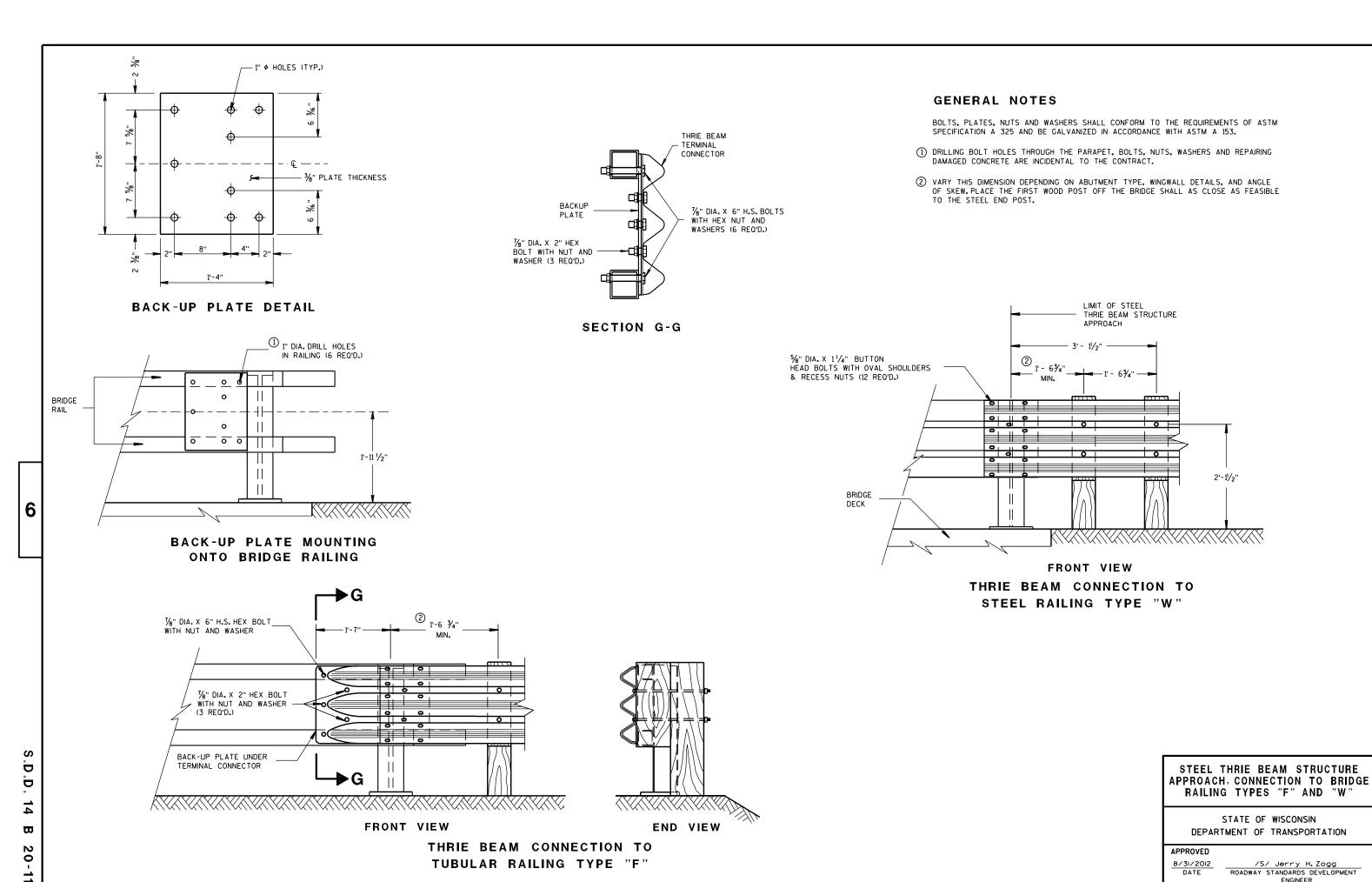
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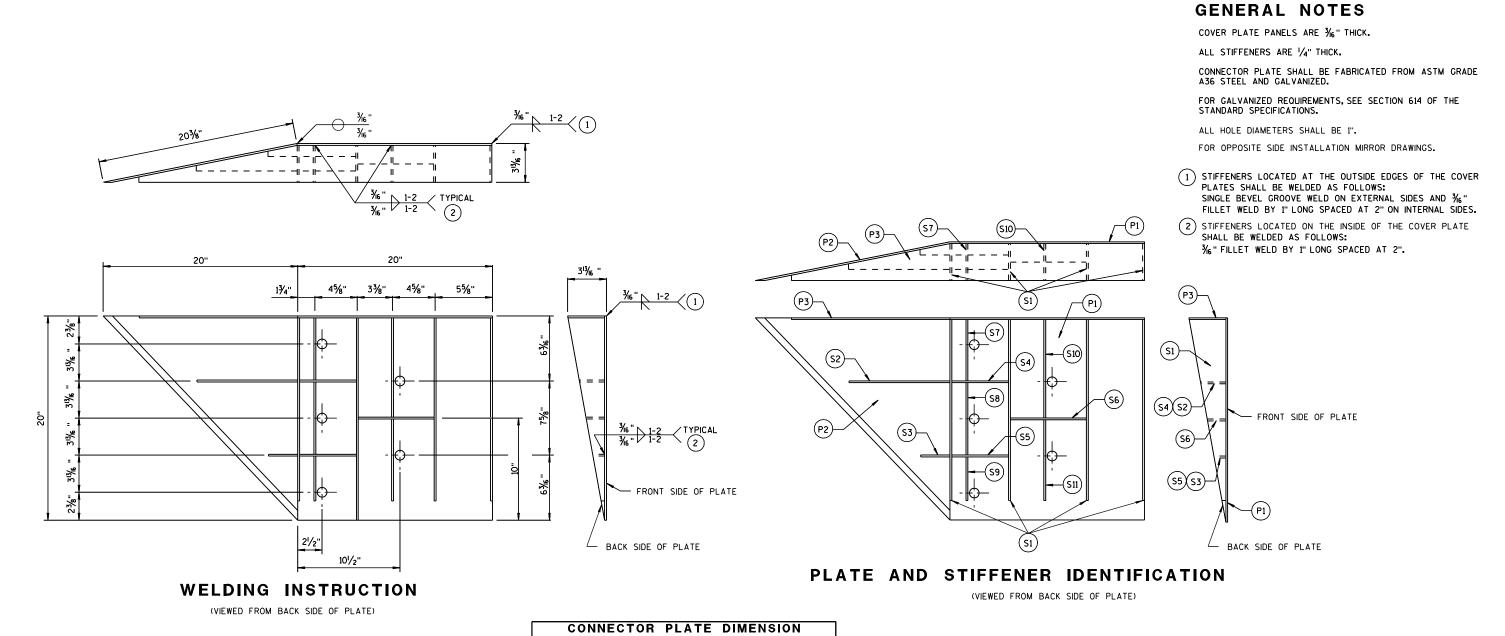
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ENGINEER



	CONNE		R PLATE DIMENS! R Assembly)	ION
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3/6 "
P2	1	B₽Ĉ	20" × 20" × 28%6"	3/6 "
P3	1	B O	39" × 35/8" × 20" × 195/6"	3/6 "
S1	4	BA	18 1/16 " × 3 5/8" × 18 3/4"	1/4"
S2	1	B A D	101/4" × 21/16" × 103/8" × 1/2"	1/4"
S3	1	B₽CD	3" × 1½6" × 3½" × ½"	1/4"
S4	1	вЁ	61/8" × 21/16"	1/4"
S5	1	в≟	6½" × ½6"	1/4"
S6	1	в≟	7¾" × 1¾"	1/4"
S7	1	A BC	2%6" × 6" × 3%" × 5%"	1/4"
S8	1	A DC	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C B	61/16" × 63/16" × 13/32"	1/4"
S10	1	A₽C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"
S11	1	CA B	8½" × 8¾" × 1¼6 "	1/4"

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STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH,

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

CONNECTOR PLATE DETAIL

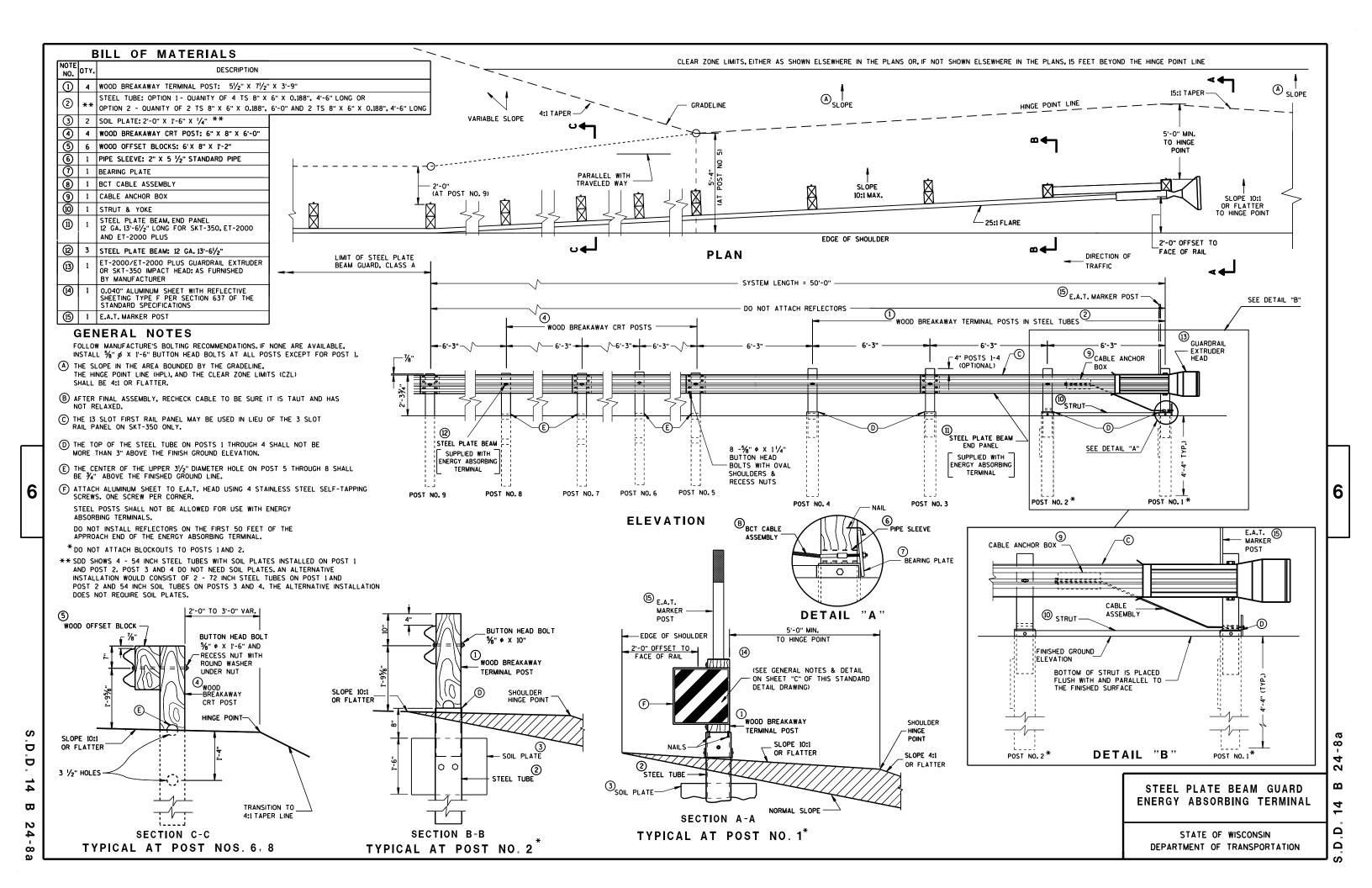
APPROVED

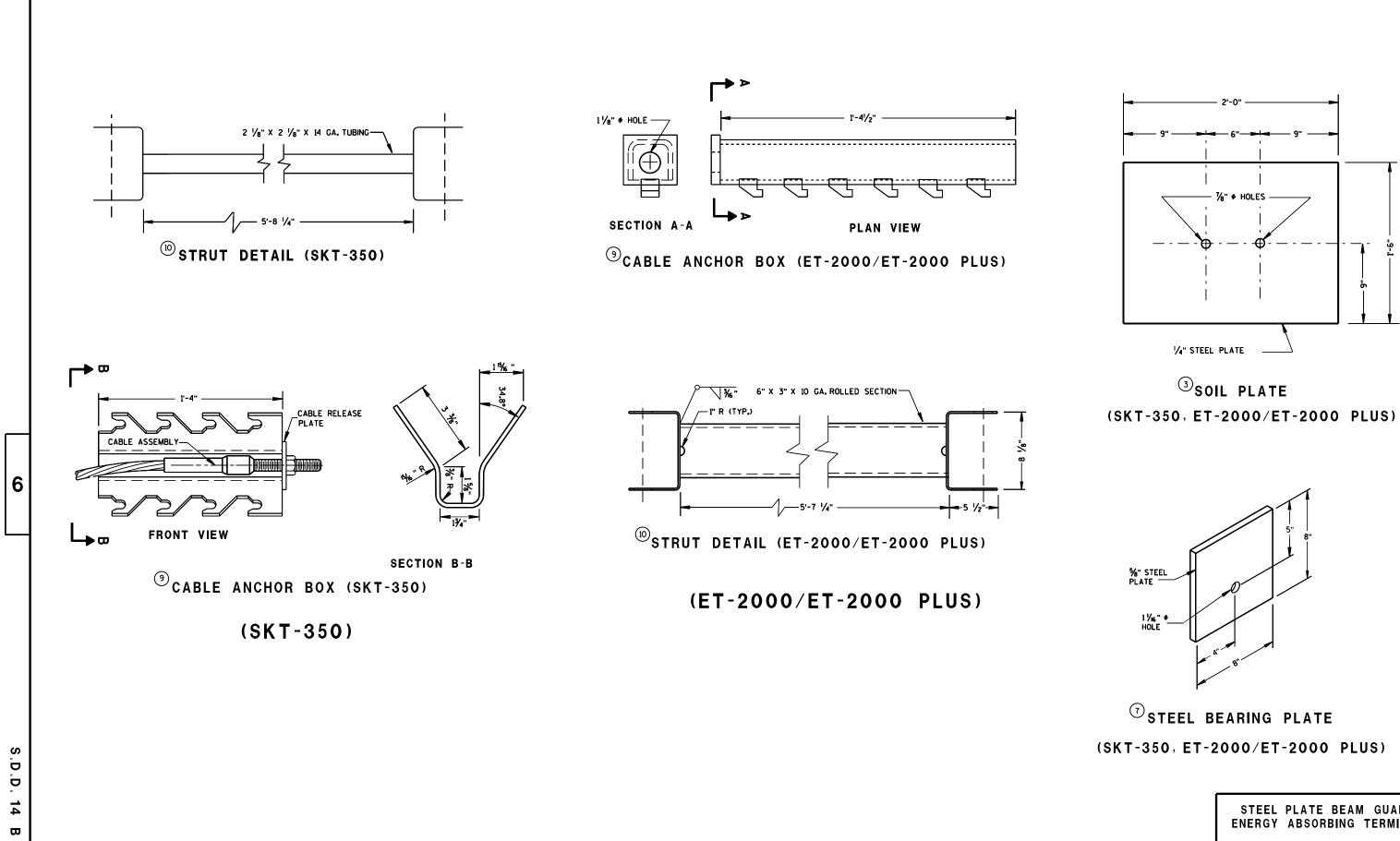
8/31/2012 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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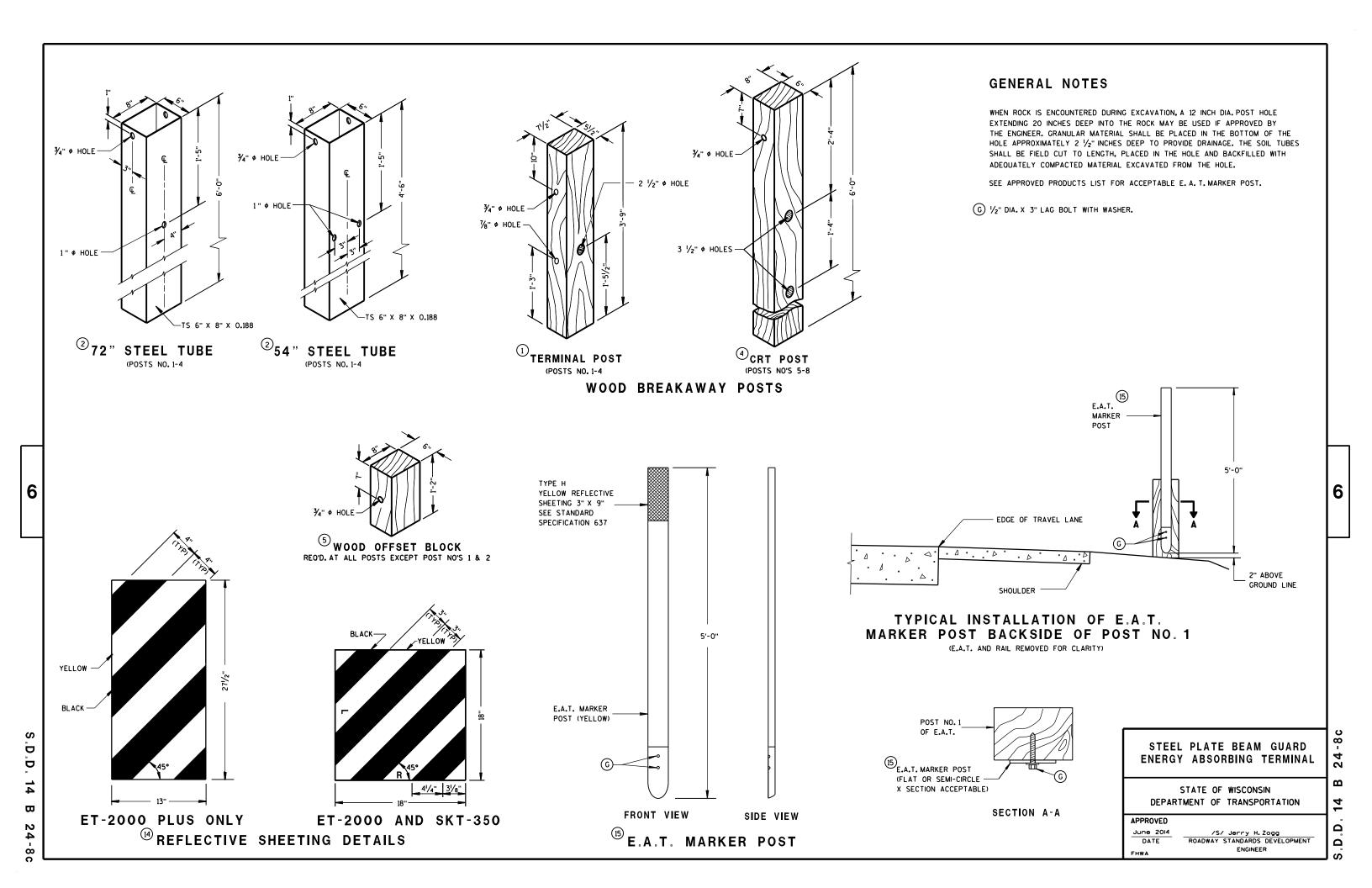


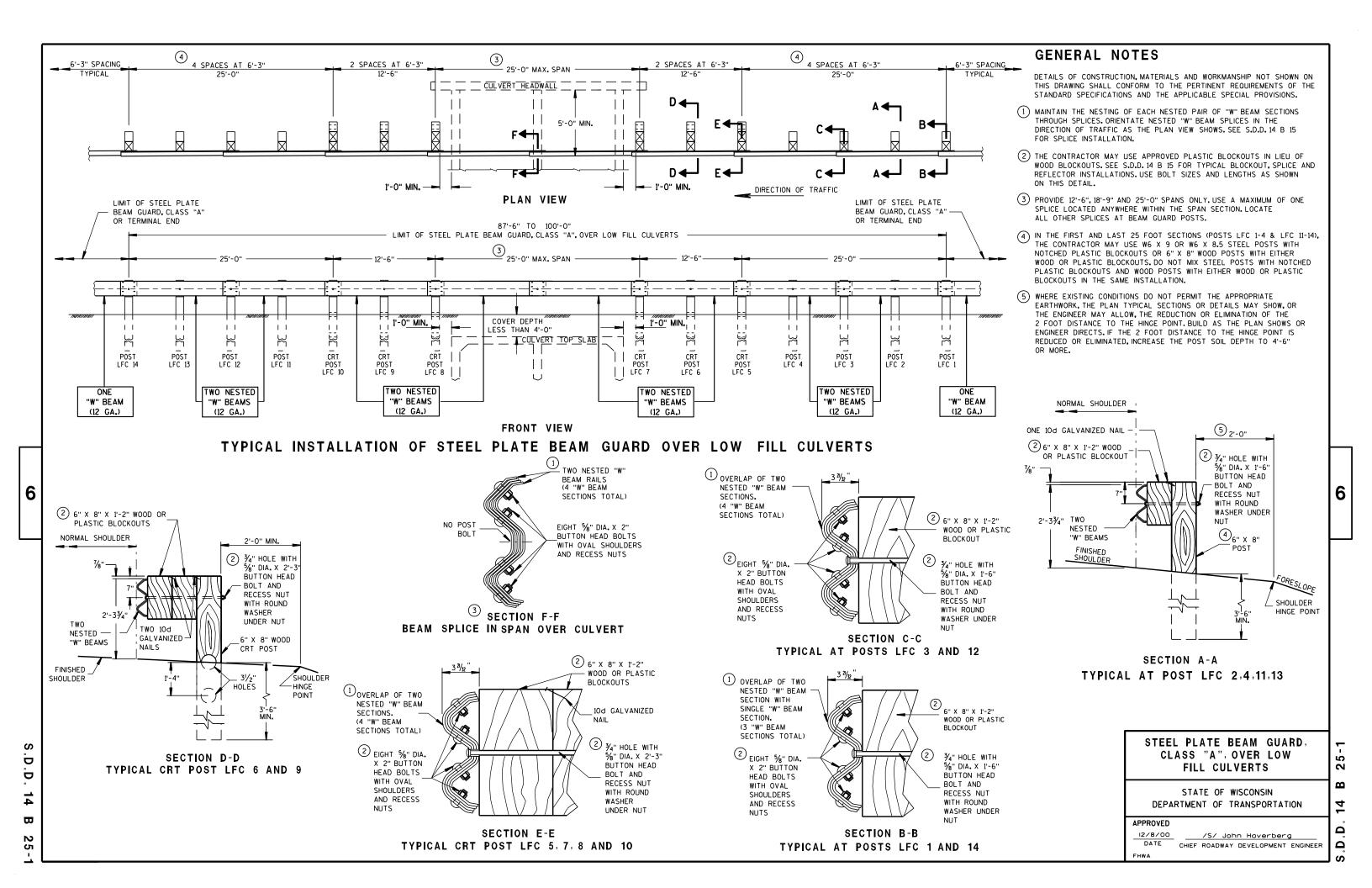


24-8b

STEEL PLATE BEAM GUARD **ENERGY ABSORBING TERMINAL**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 14 أ يُ





STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

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GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2. UNLESS NOTED OTHERWISE.

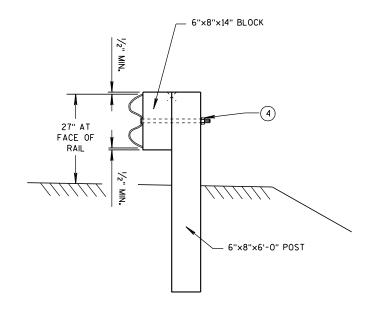
SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

- (1) ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.
- 2) RADIUS FROM 8' 36'. SEE PLAN.
- 3 HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.
- (4) %" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	* NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH x WIDTH)
8'	5	1 at 12.5'	25' × 15'
16'	7	1 at 25'	30' × 15'
24'	9	1 at 25' and 1 at 12.5'	40' × 20'
32'	11	2 at 25'	50' × 20'

* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



SECTION B-B (BEAM GUARD POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

DEPARTMENT OF TRANSPORTATION

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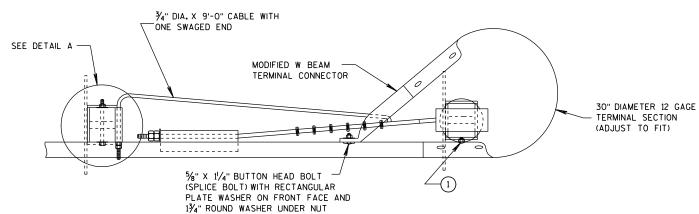
STATE OF WISCONSIN

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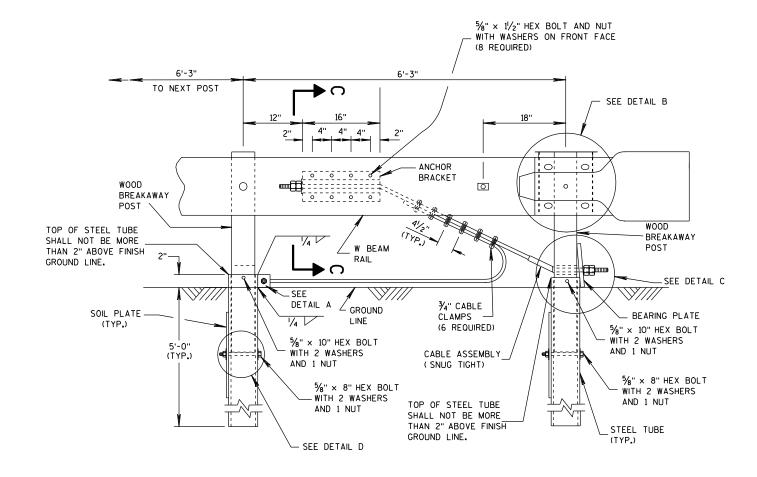
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PLAN VIEW



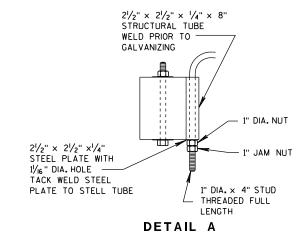
ELEVATION VIEW

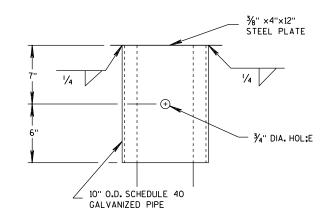
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

GENERAL NOTES

ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A 5%" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED 3/4" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.

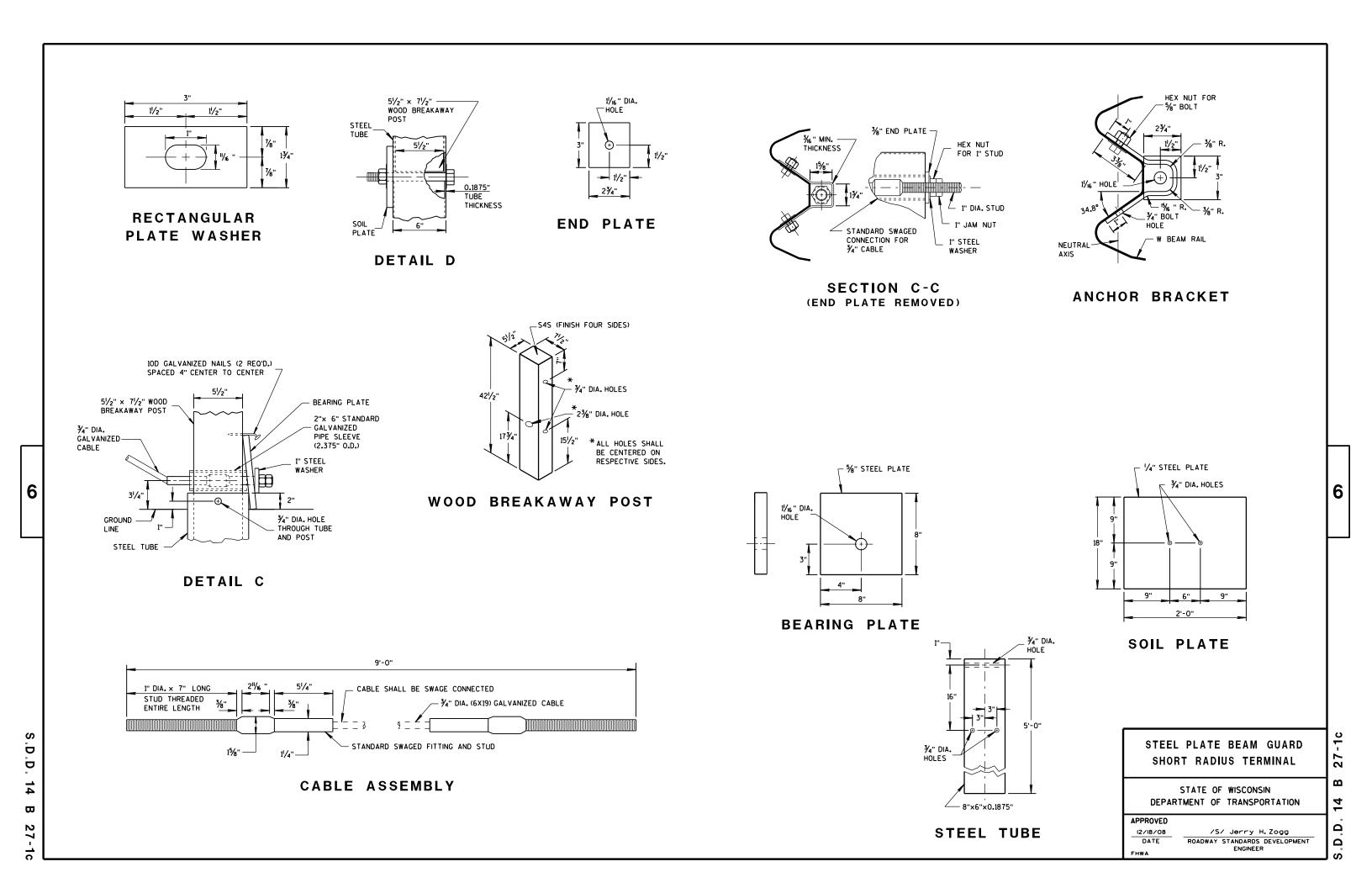




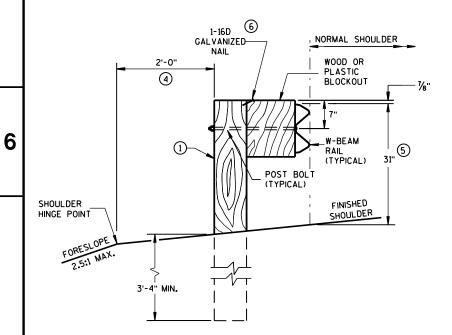
DETAIL B (BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

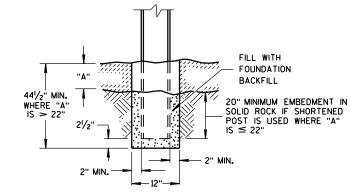


- 2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



END VIEW

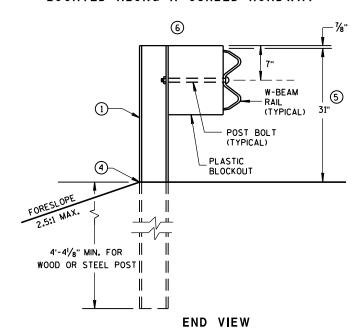
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



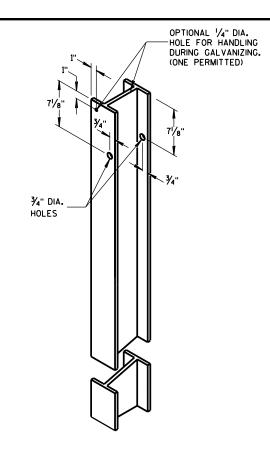
END VIEW SETTING STEEL OR WOOD POST IN ROCK 3



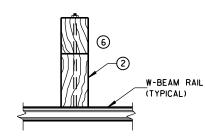
END VIEW LOCATED ALONG A CURBED ROADWAY



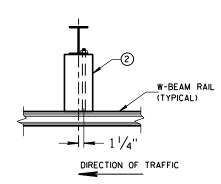
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



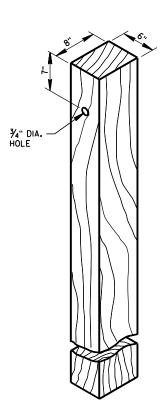
STEEL POST & HOLE PUNCHING DETAIL (w6X9)^①



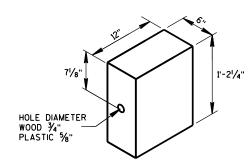
PLAN VIEW WOOD POST, **BLOCKOUT & BEAM**



PLAN VIEW STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

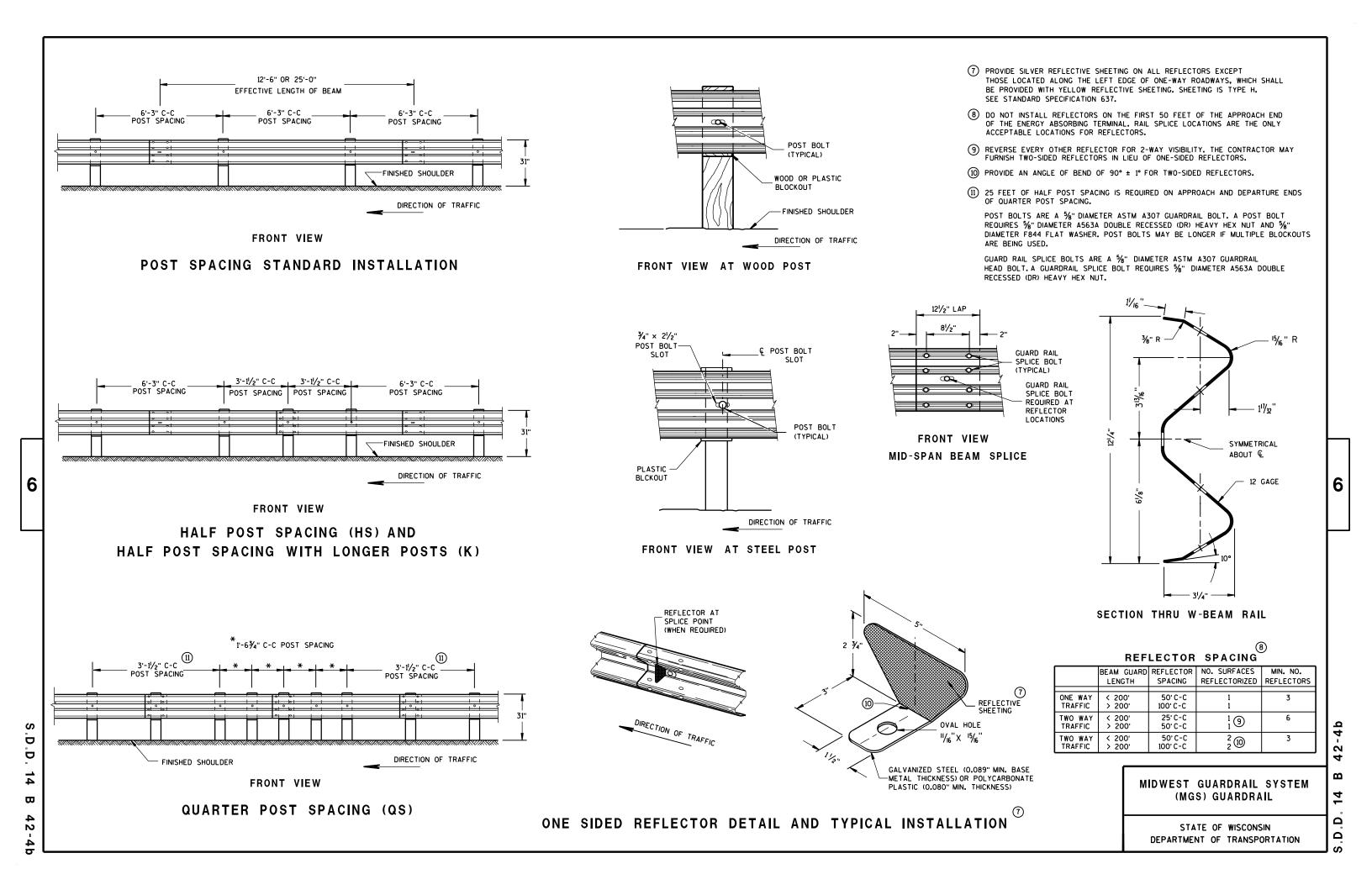
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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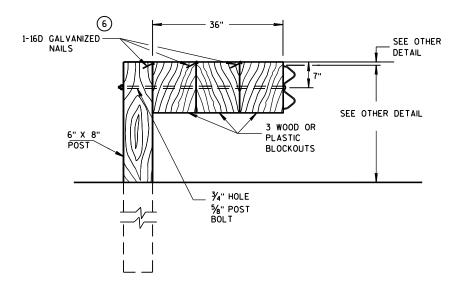
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

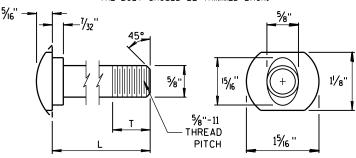


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

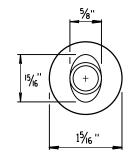
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

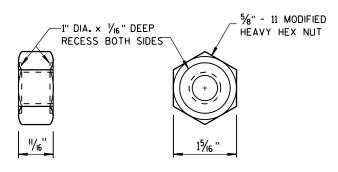


POST BOLT TABLE

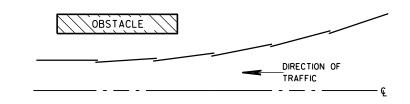
11/8"
1/8
13/4"
4"
4½ ₆ "
4"
41/16"
4"



ALTERNATE BOLT HEAD

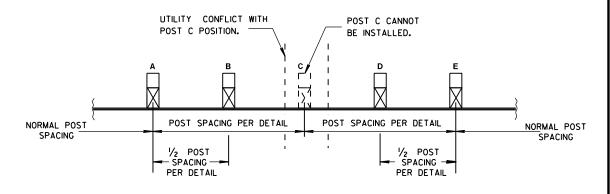


POST BOLT, SPLICE BOLT AND RECESS NUT



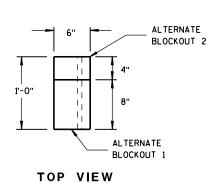
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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SECTION A-A SECTION B-B

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PLAN VIEW

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



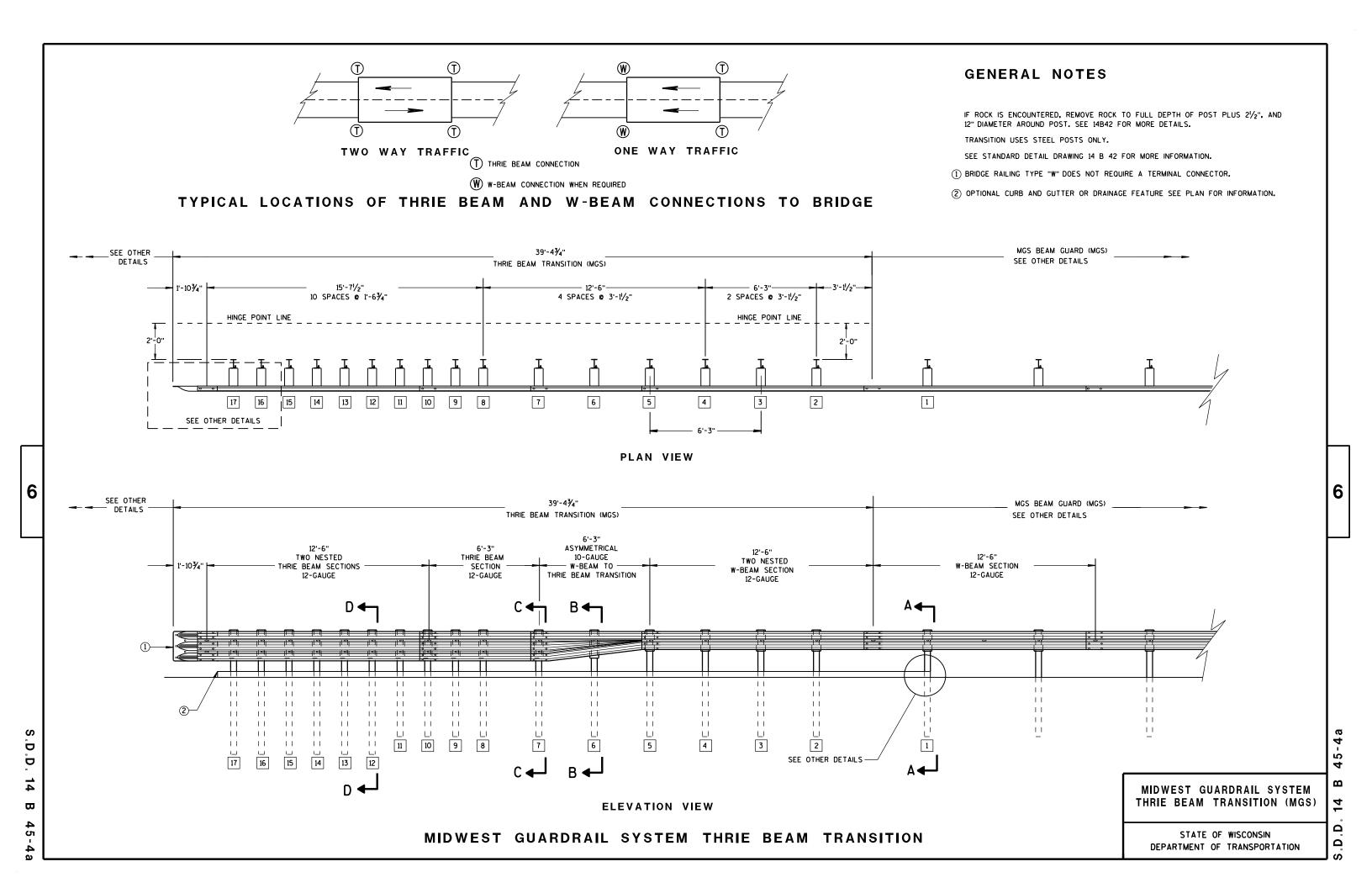
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

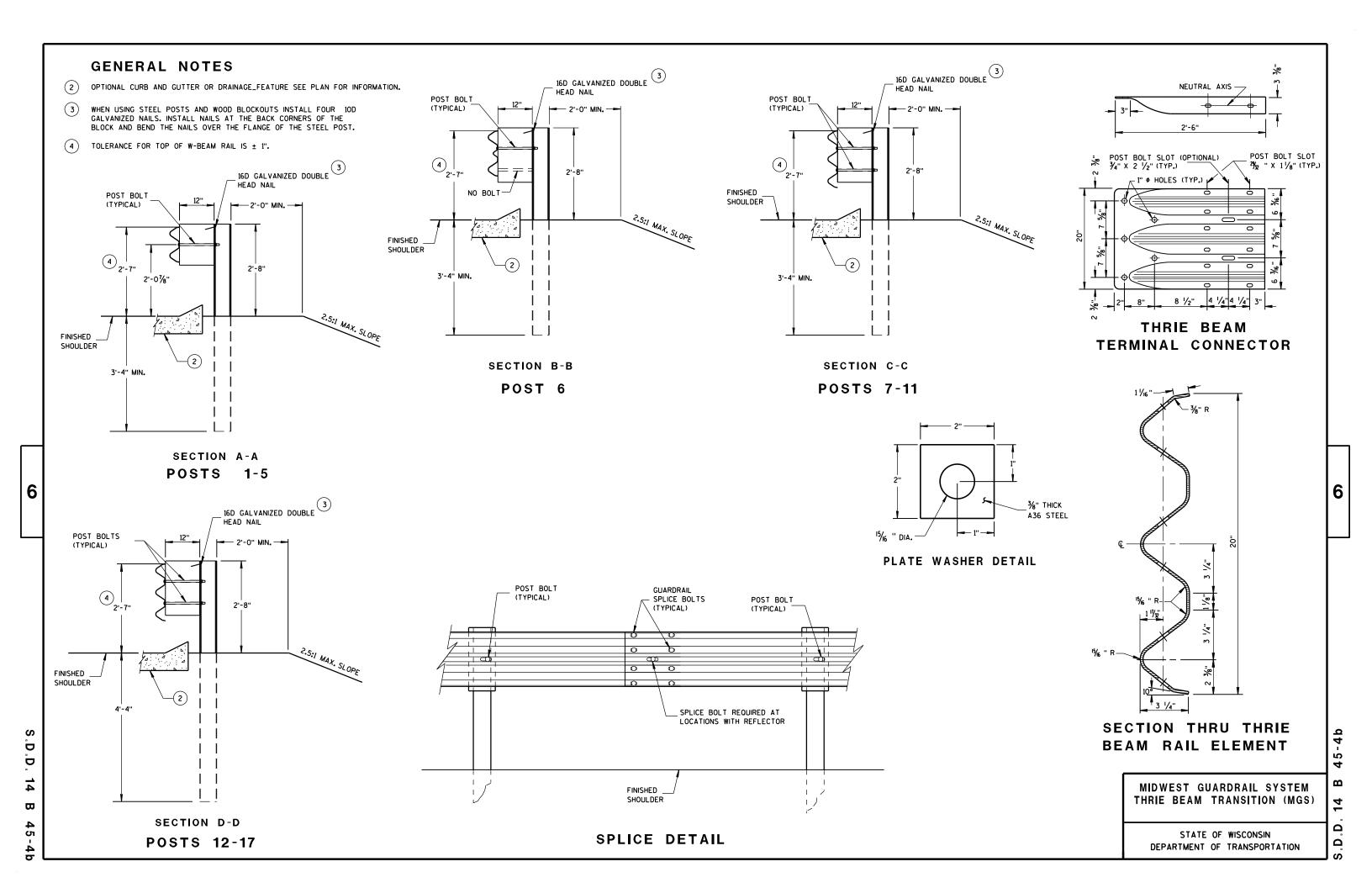
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

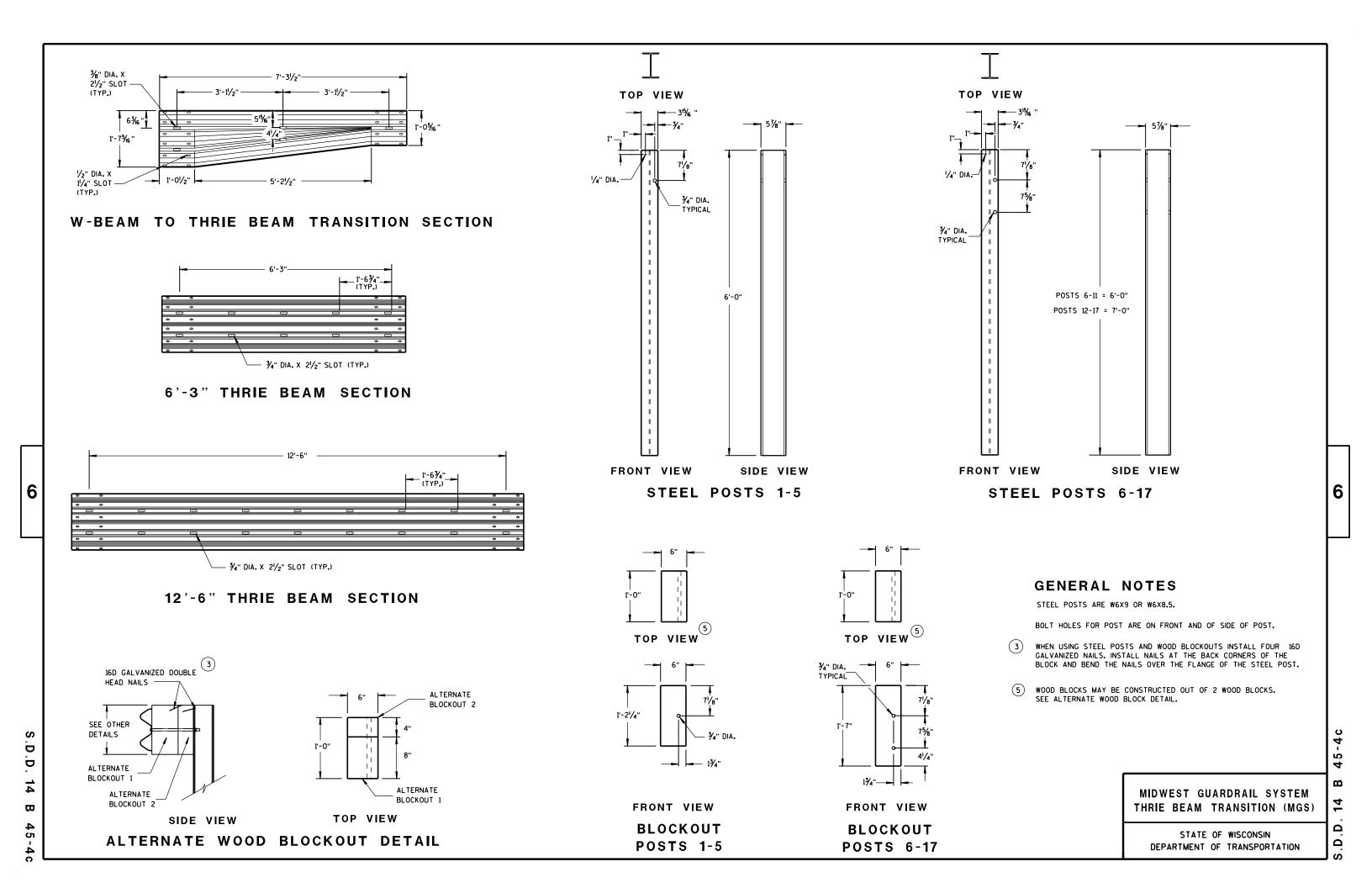
44-2b

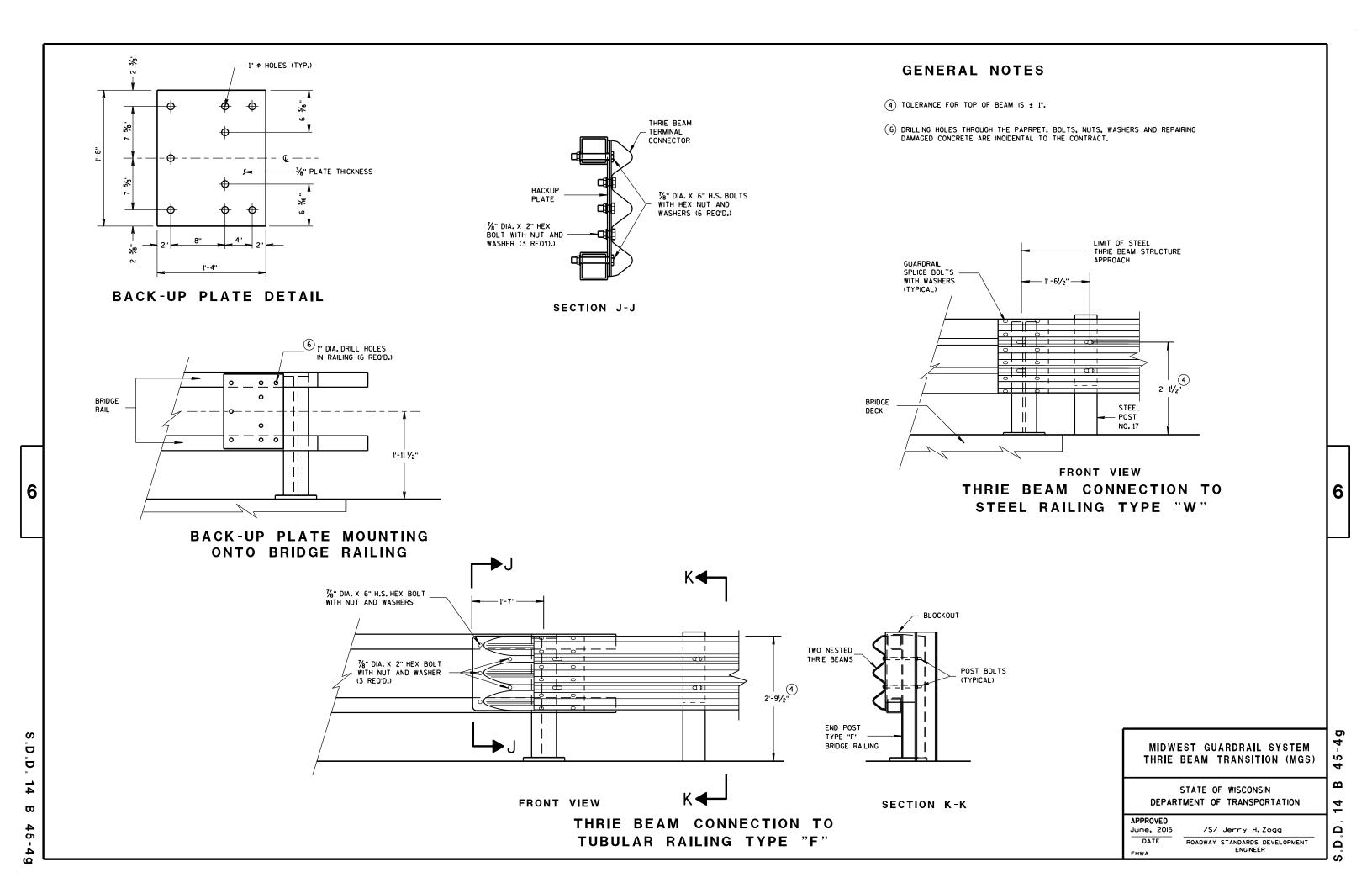
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GENERAL NOTES

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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

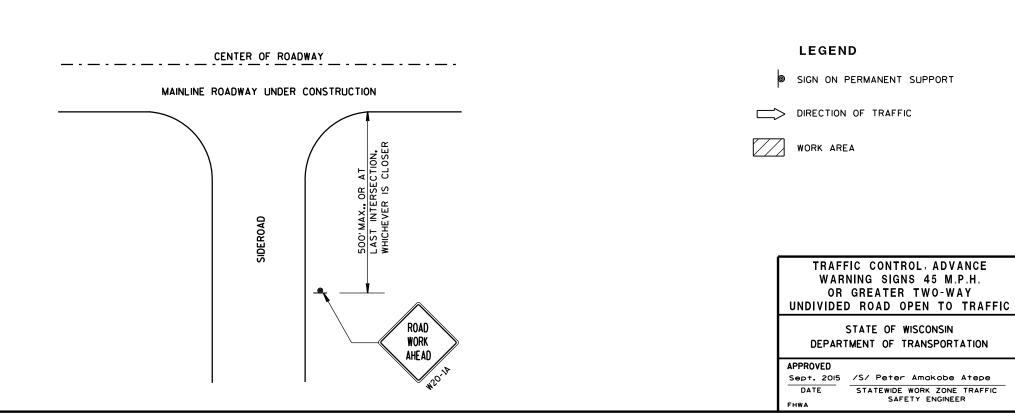
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

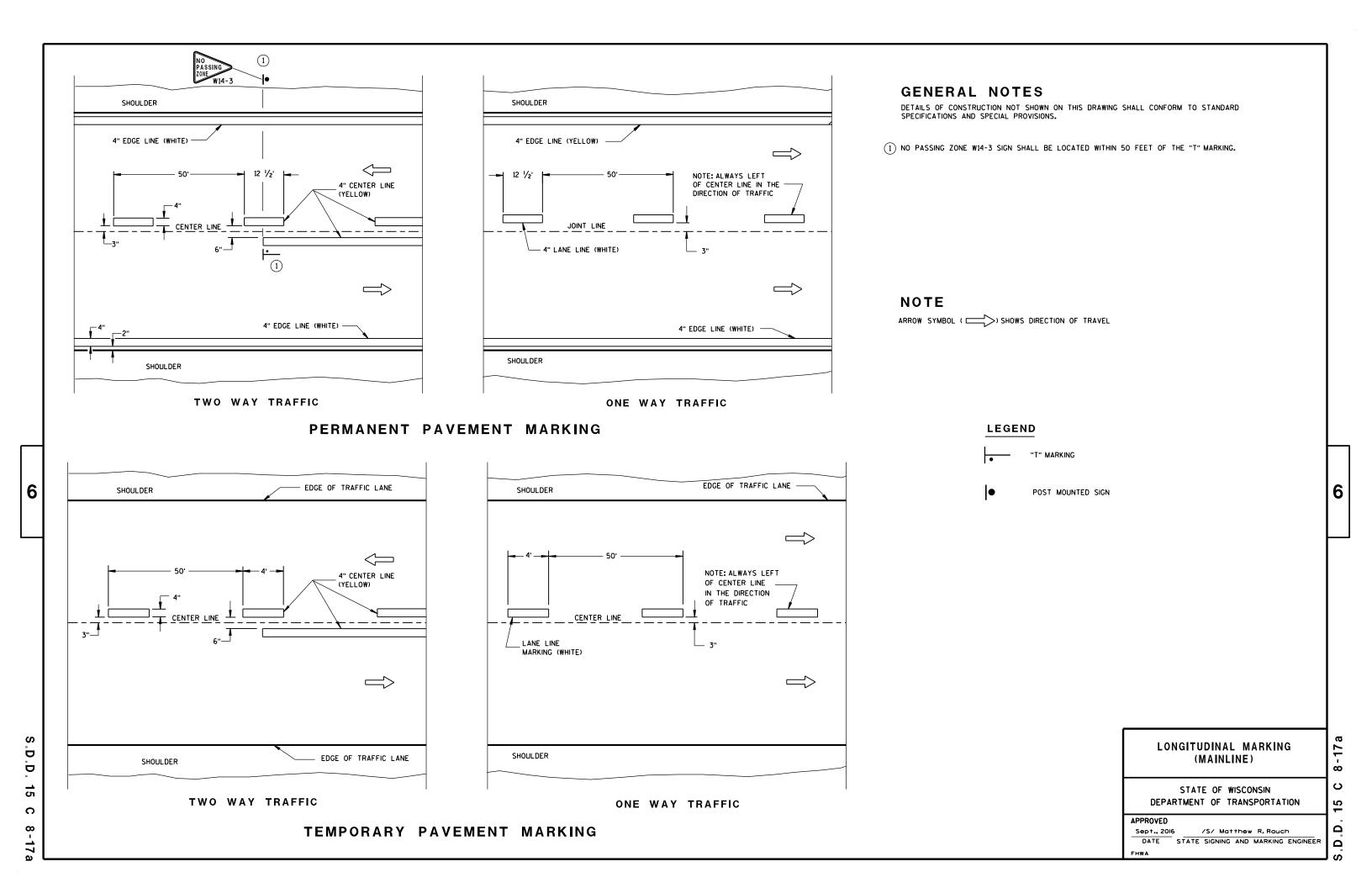
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



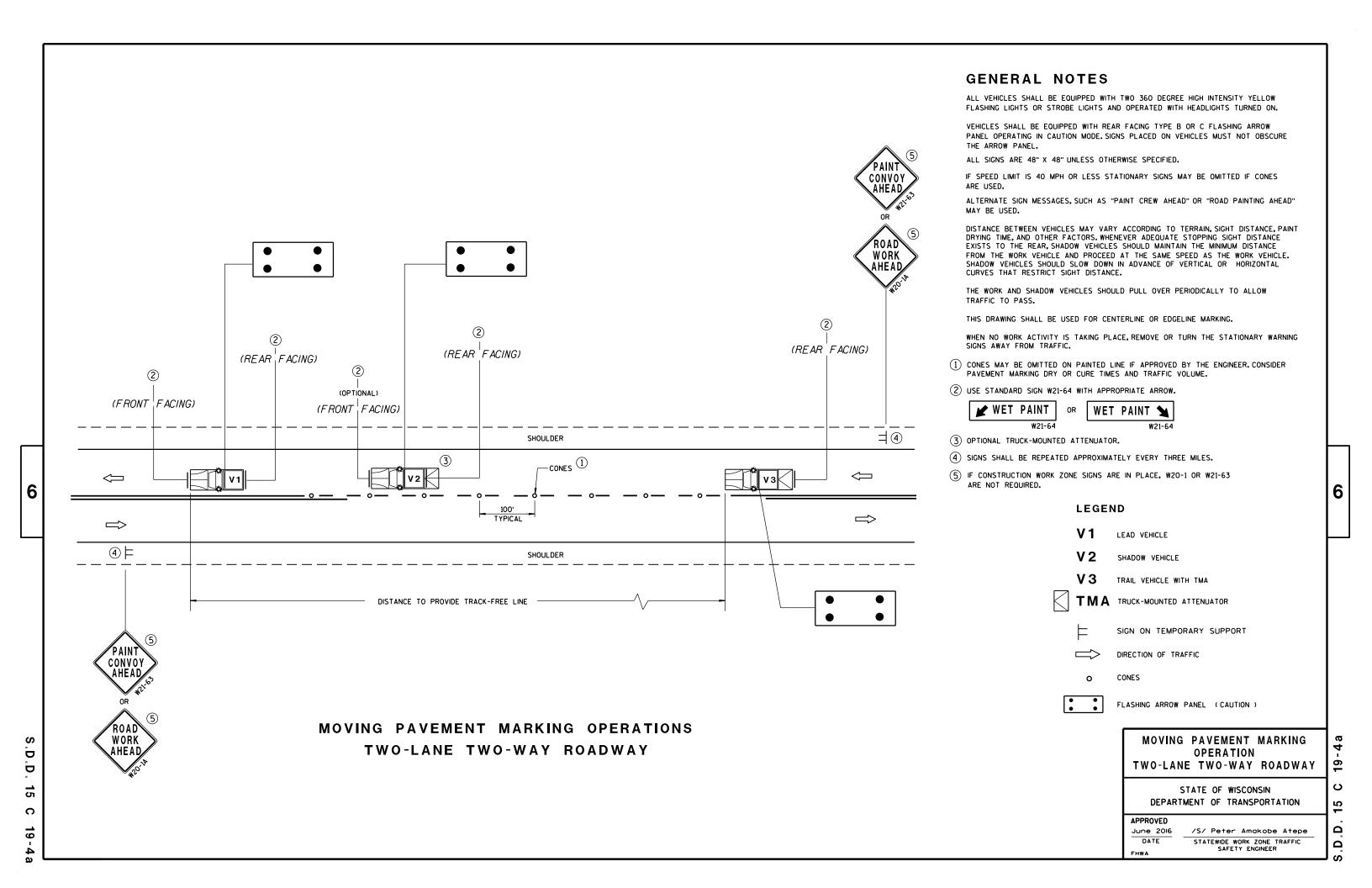
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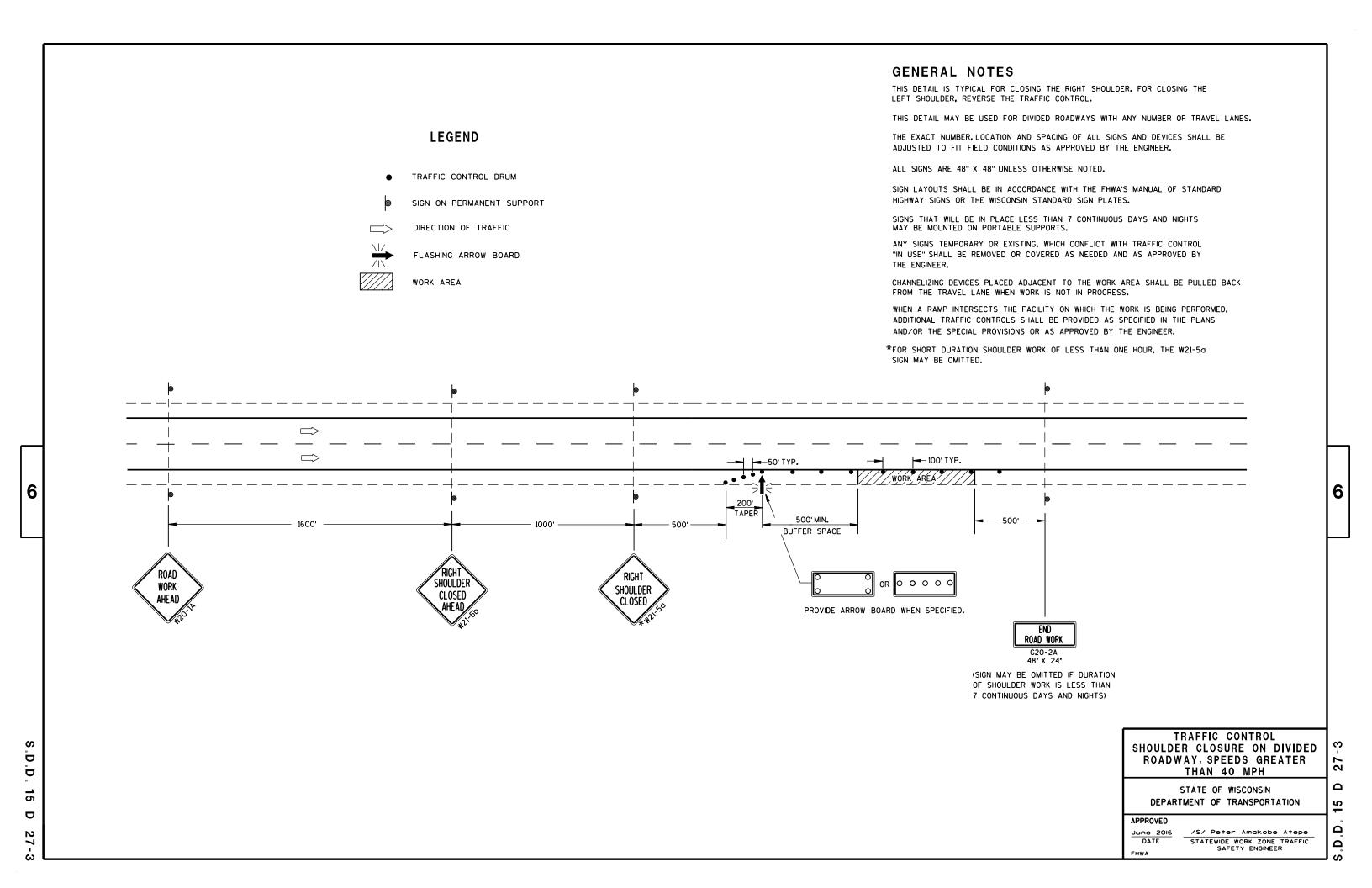
SAFETY ENGINEER

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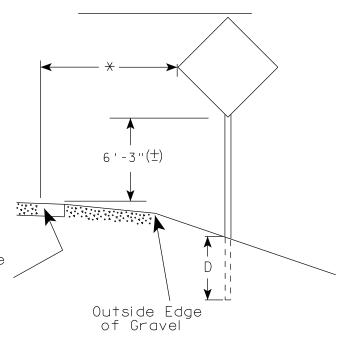




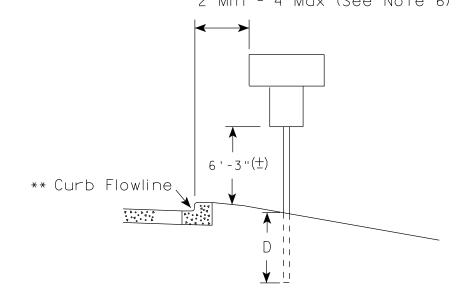
URBAN ARFA

2' Min - 4' Max (See Note 6) 7'-3"(士) ** Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生) A POLICE AND A POL D^{-1} Outside Edae of Gravel

White Edgeline Location

POST EMBEDMENT DEPTH

Area of Sign D Installation (Min) (Sq.Ft.) 20 or Less 4' Greater than 20

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' (\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

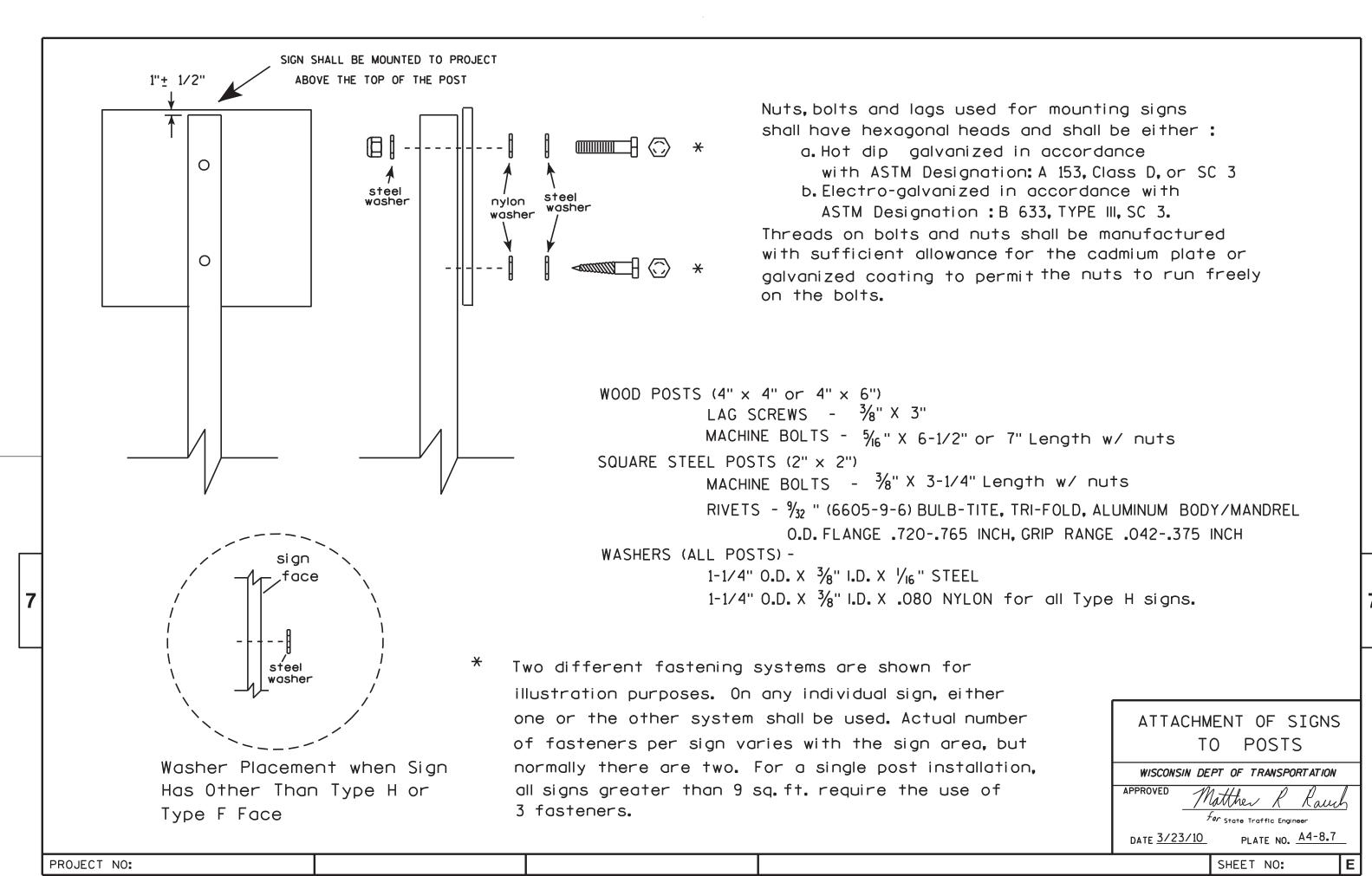
PROJECT NO:

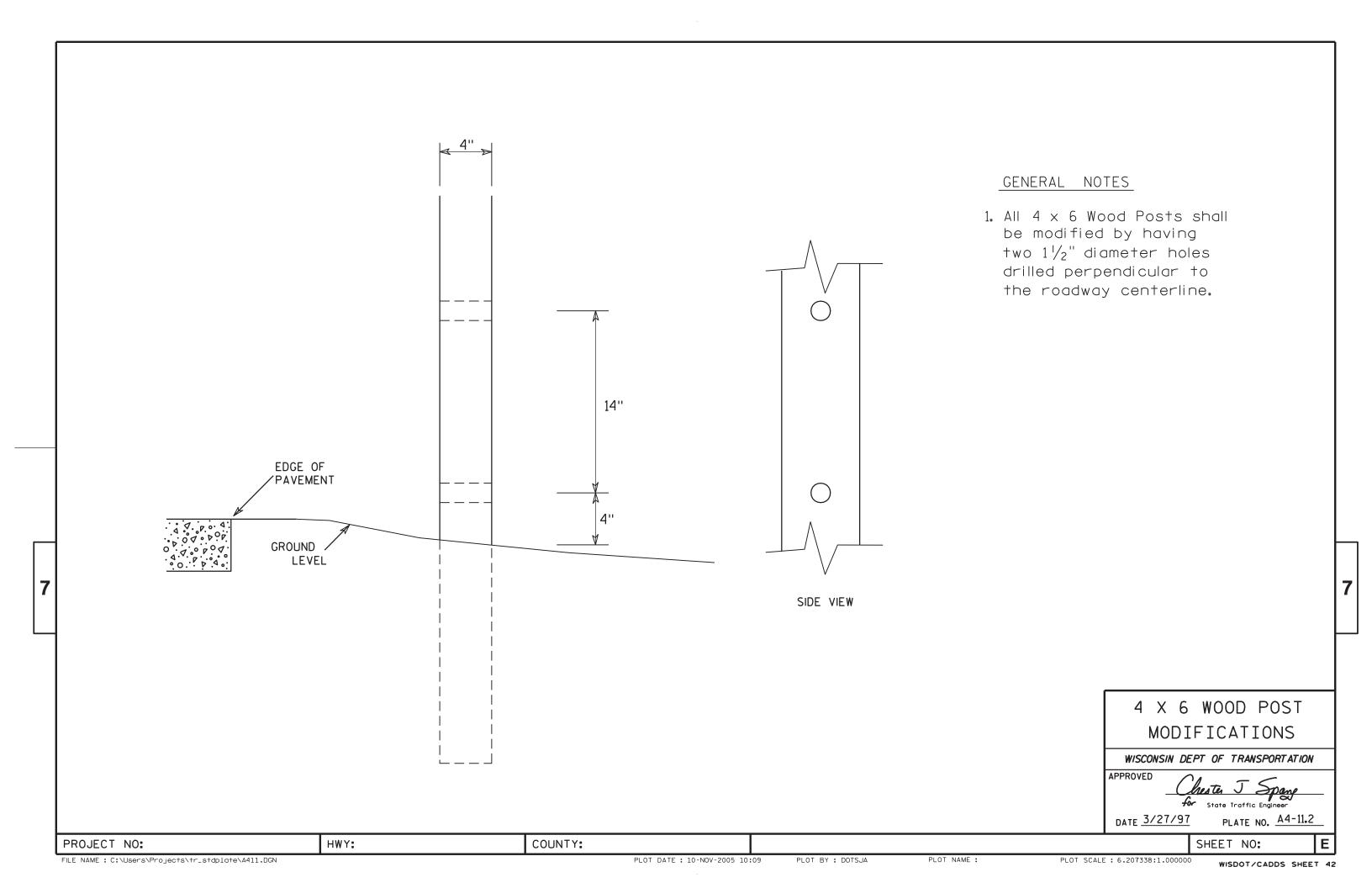
COUNTY:

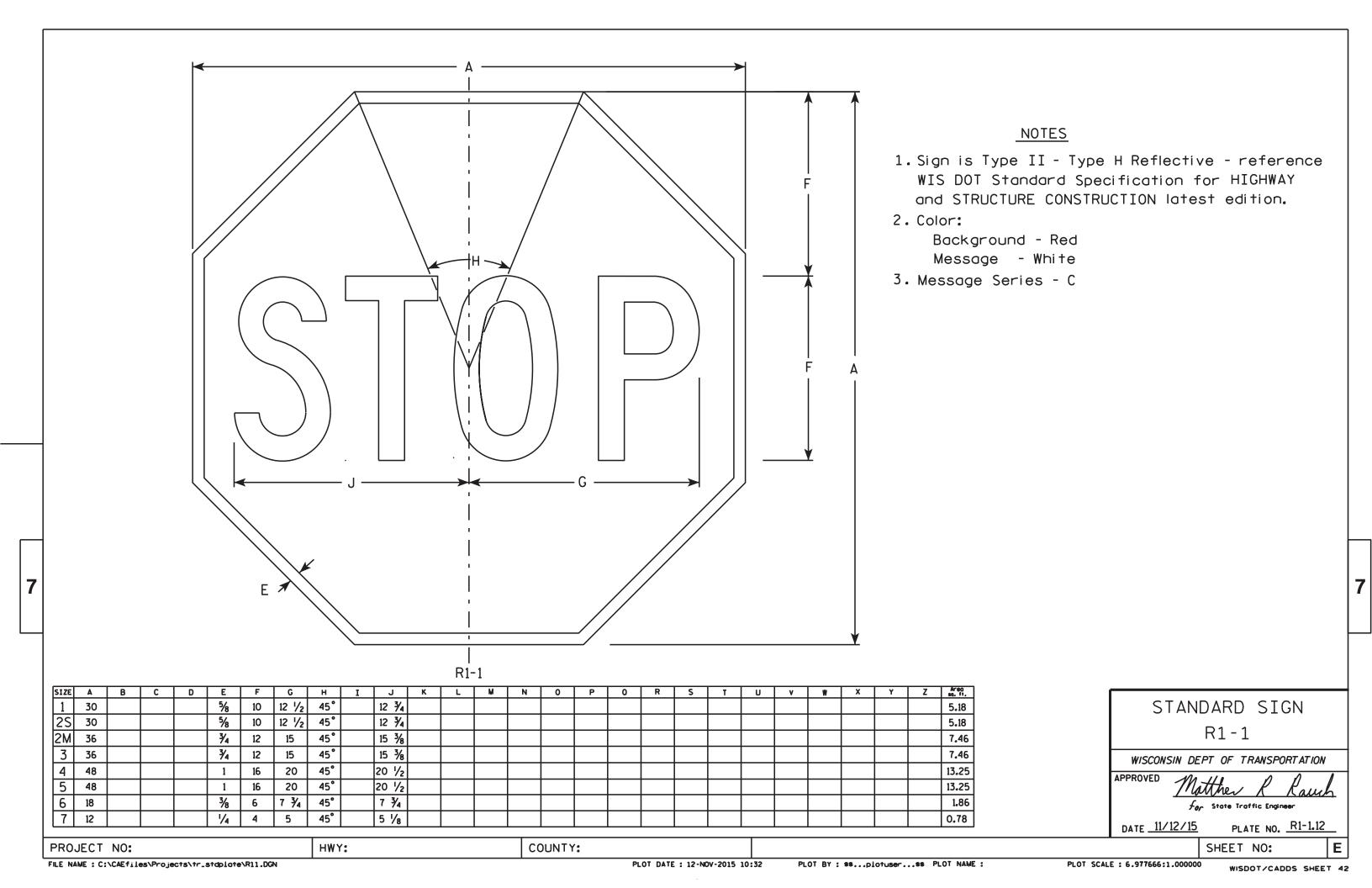
PLOT DATE: 23-JUL-2015 15:21 PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: 99.237937:1.000000







- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

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SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
1 2S	36		1 1/8	5/8	3/4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
2M	36		1 1/8	5/8	3/4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
2M 3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 1/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 ½	10	4 %	1 5/8	8	1	14	19	·	1 1/4	6 1/2								16.0

COUNTY:

STANDARD SIGN W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matth

For State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

SHEET NO:

SHEET INC

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W11.DGN

HWY:

PROJECT NO:

PLOT DATE: 15-MAY-2012 13:47

PLOT BY: mscsja

PLOT NAME :

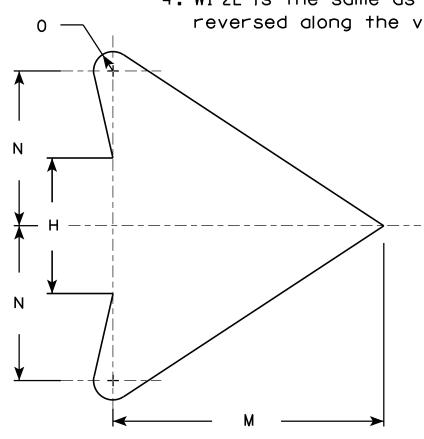
PLOT SCALE: 7.939035:1.000000

WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW DI	ETAIL
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							W	1-2R															<u> </u>	<u></u>		
Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areo sq. ft.
24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
36		1 1/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0
	24 30 36 36 36	24 30 36 36 36	24 1 ½ 30 1 ½ 36 1 ½ 36 1 ½ 36 1 ½ 36 1 ½	24 1 ½8 3/8 30 1 ¾8 ½ 36 1 ½8 ½ 36 1 ½8 ½ 36 1 ½8 ½ 36 1 ½8 ½	24 1 ½ ¾ ½ 30 1 ¾ ½ ½ 36 1 ½ ¾ ¾ 36 1 ½ ¾ ¾ 36 1 ½ ¾ ¾ 36 1 ½ ¾ ¾	24 1 ½8 3/8 ½ 30 1 3/8 ½ 5/8 36 1 5/8 5/8 3/4 36 1 5/8 5/8 3/4 36 1 5/8 5/8 3/4	24 1 ½ 3/8 ½ 8 ¼ 30 1 ¾ ½ ½ 10 ¼ 36 1 ½ ½ ¾ 12 ¾ 36 1 ½ ½ ¾ 12 ¾ 36 1 ½ ½ ¾ 12 ¾ 36 1 ½ ½ ¾ 12 ¾ 36 1 ½ ½ ¾ 12 ¾	A B C D E F G H 24 1 1/8 3/8 1/2 8 1/4 3 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4	24 1 ½ 3/8 ½ 8 ¼ 3 ½ 4 ½ 30 1 ¾ ½ 5/8 10 ¼ 4 ¾ 5 ½ 36 1 ½ 5/8 12 ¾ 5 ¼ 6 ¾ 36 1 ½ 5/8 12 ¾ 5 ¼ 6 ¾ 36 1 ½ 5/8 12 ¾ 5 ¼ 6 ¾ 36 1 ½ 5/8 12 ¾ 5 ¼ 6 ¾ 36 1 ½ 5/8 12 ¾ 5 ¼ 6 ¾	A B C D E F G H I J 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8	A B C D E F G H I J K 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2	A B C D E F G H I J K L 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 3/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 3/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 3/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 3/8	A B C D E F G H I J K L M 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2	A B C D E F G H I J K L M N 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6	A B C D E F G H I J K L M N O 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	A B C D E F G H I J K L M N O P 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	A B C D E F G H I J K L M N O P O 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	A B C D E F G H I J K L M N O P O R 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	A B C D E F G H I J K L M N O P O R S 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	A B C D E F G H I J K L M N O P O R S T 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	A B C D E F C H I J K L M N O P O R S T U 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 37 1 1/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	W1-2R A B C D E F G H I J K L M N O P O R S T U V 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4 37 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 1/8 10 1/2 6 3/4	W1-2R A B C D E F G H I J K L M N O P O R S T U V W 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 37 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	W1-2R A B C D E F G H I J K L M N O P O R S I U V W X 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 37 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	A B C D E F C H I J K L M N O P O R S T U V W X Y 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 37 1 1/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 30 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4	W1-2R A B C D E F G H I J K L M N O P O R S T U V W X Y Z 24 1 1/8 3/8 1/2 8 1/4 3 1/2 4 1/2 1 3/4 2 3/8 7 1/4 7 4 1/2 30 1 3/8 1/2 5/8 10 1/4 4 3/8 5 5/8 2 1/4 3 9 1/8 8 3/4 5 5/8 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 36 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 37 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 38 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4 39 1 1 5/8 5/8 3/4 12 3/8 5 1/4 6 3/4 2 5/8 3 1/2 10 7/8 10 1/2 6 3/4

COUNTY:

STANDARD SIGN W1 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>5/15/12</u>

PLATE NO. W1-2.10

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W12.DGN

PROJECT NO:

← H →

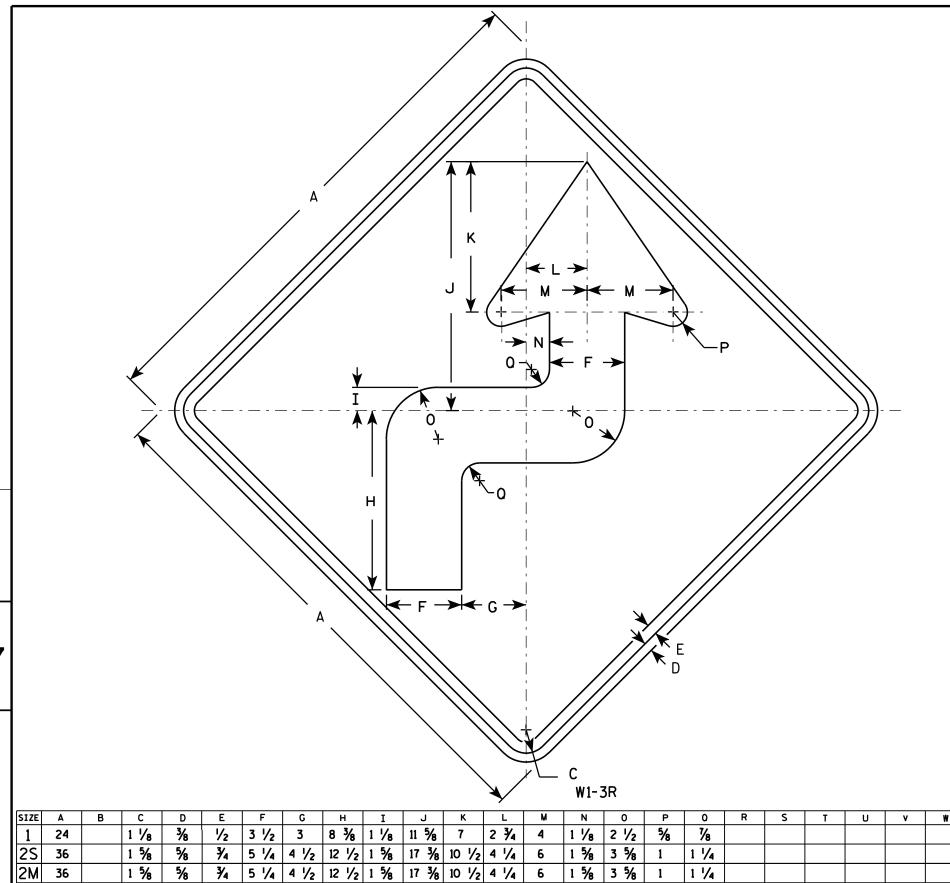
HWY:

PLOT DATE: 15-MAY-2012 14:03

PLOT BY: mscsja

PLOT SCALE: 6.202372:1.000000

WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-3L is the same as W1-3R except the arrow is reversed along the vertical centerline.

4.0 9.0 9.0 3/4 5 1/4 4 1/2 12 1/2 1 3/8 17 3/8 10 1/2 4 1/4 3 36 1 1/8 1 % 3 % | 9.0 4 36 12 1/2 1 3/8 | 17 3/8 | 10 1/2 | 4 1/4 | 6 1 % 3 % 9.0 1 1/8 5 48 2 1/4 3/4 16 5/8 2 1/4 23 1/4 14 5 5/8 8 | 2 1/8 | 4 7/8 | 1 1/4 | 1 5/8

COUNTY:

STANDARD SIGN W1-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rause

For State Traffic Engineer

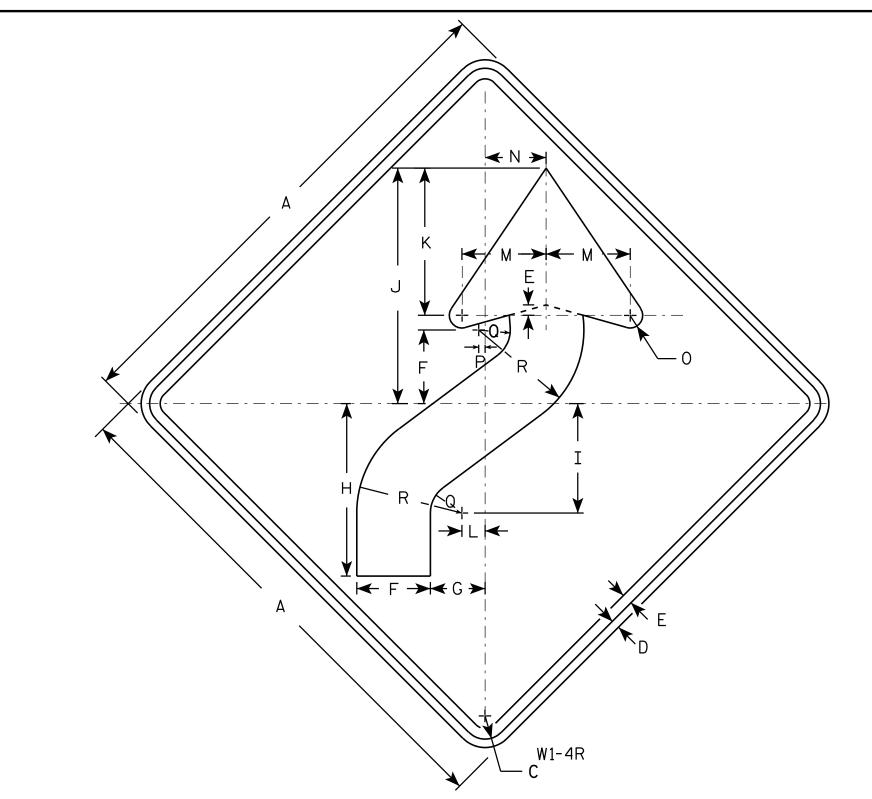
DATE 5/17/12 PLATE NO. W1-3.8

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

3 1/2 2 5/8 8 1/4 5 1/4 11 1/4 5/8 1/4 1 1/2 5 24 1 1/8 4.0 25 3 5/8 3/4 3/8 1 1/8 6 1/4 30 4 3/8 3 1/4 10 1/4 6 1/2 14 8 3/4 1 3/8 6.25 36 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 4 1/2 1 1/2 2 1/4 7 1/2 9.0 3 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 36 5 1/4 4 1/2 | 1 1/2 2 1/4 7 1/2 9.0 4 36 1 % 5 1/4 | 12 3/8 | 7 3/8 | 16 3/8 | 10 1/2 | 1 5/8 4 1/2 1 2 1/4 7 1/2 1/2 9.0 5 48 5 1/4 16 1/2 10 1/2 22 1/2 14 2 1/4 6 1 1/4 16.0

COUNTY:

STANDARD SIGN W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

SHEET NO:

DATE <u>5/17/12</u>

PLATE NO. W1-4.11

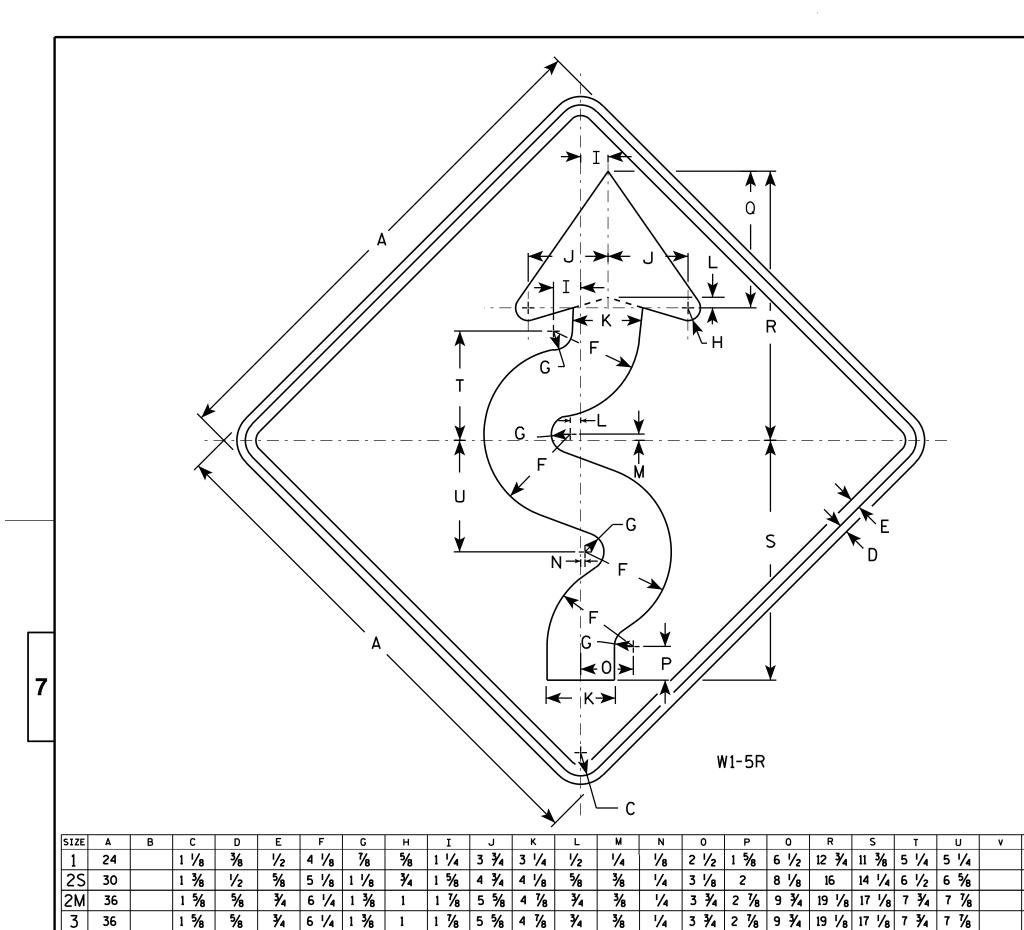
PLOT BY: mscsja

PLOT SCALE: 5.706180

PLOT NAME :

PROJECT NO:

HWY:



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.

STANDARD SIGN W1 - 5WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 5/18/12 PLATE NO. W1-5.8

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W15.DGN

1 %

2 1/4

5/8

6 1/4 1 3/8

4

5

36

48

PROJECT NO:

3/8

COUNTY:

1/2

PLOT BY: mscsja

WISDOT/CADDS SHEET 42

3 3/4 2 1/8 9 3/4 19 1/8 17 1/8 7 3/4 7 1/8

| 25 1/2 | 22 3/4 | 10 3/8 | 10 1/2 |

8 1/4 1 3/4 1 1/4 2 1/2 7 1/2 6 1/2 1

HWY:

1 1/8 | 5 5/8 | 4 1/8 | 3/4

4.0

6.25

9.0

9.0

9.0

16.0

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	G
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W1-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 %	4 3/4	2 3/8	14 %	29 1/4													4.5
25	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

COUNTY:

STANDARD SIGN W1 - 6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

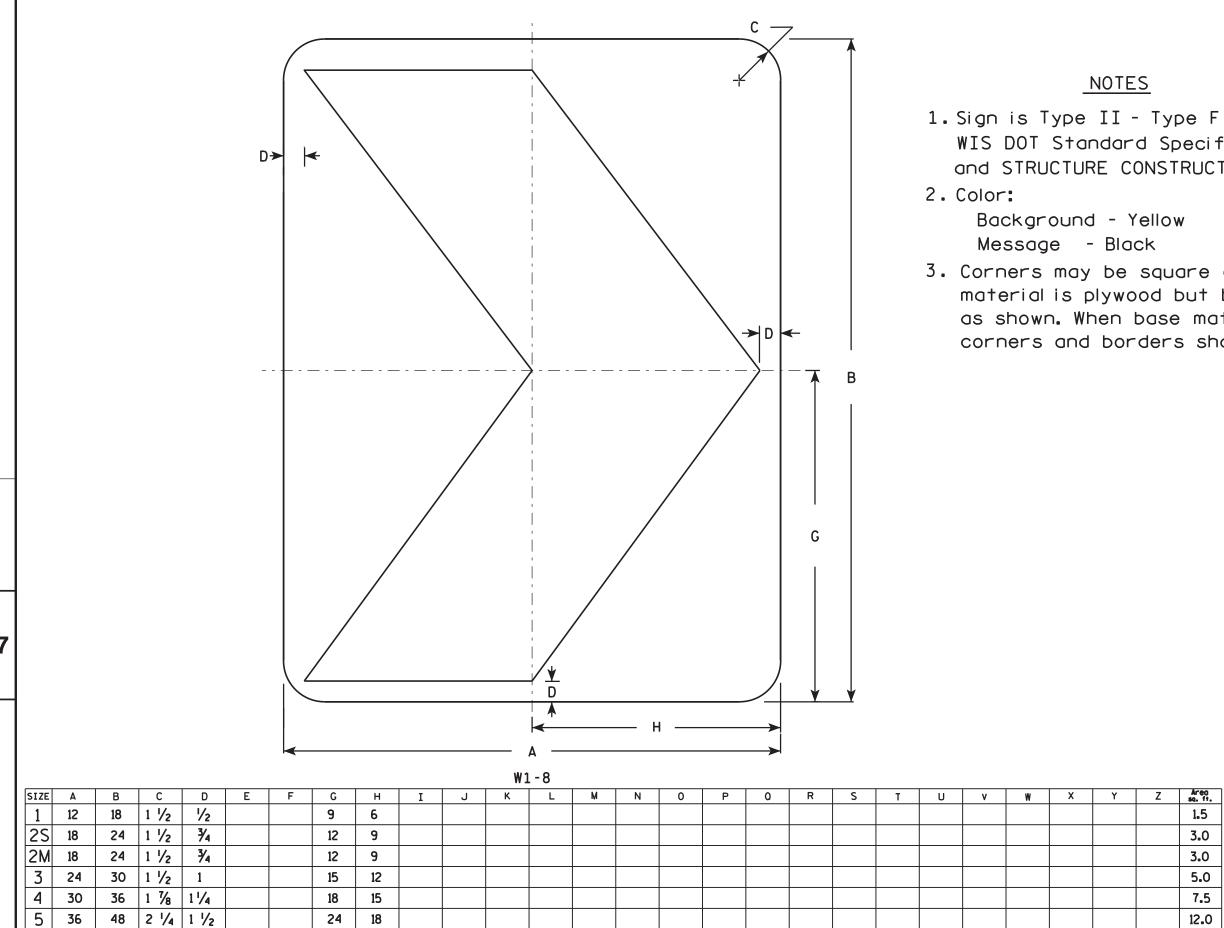
 \mathcal{F}_{or} State Traffic Engineer DATE 6/7/10 PLATE NO. W1-6.8

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

> STANDARD SIGN W1 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 6/7/10

PLATE NO. W1-8.6

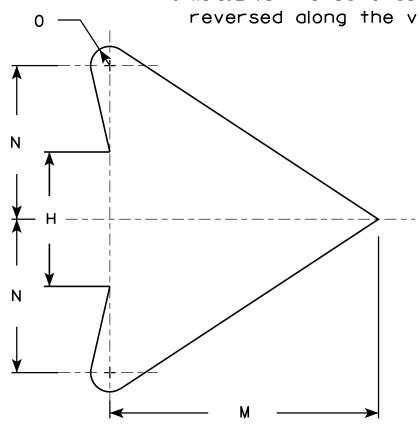
SHEET NO:

PROJECT NO:

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-10L is the same as W1-10R except the arrow is reversed along the vertical centerline.



ARROW	DETAIL

SIZE	Α	В	С	D	ы	F	G	Ι	I	7	K	L	М	N	0	Р	0	R	S	T	J	v	W	X	Y	Z	Areo sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 ½	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2	2 %	6 %	2 1/8	4 1/2	45°							4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 ¾	5	5/8	3 %	8	2 %	5 ¾	45°							6.25
2M	36		1 %	5/8	3/4		12 3/8	5 1/4	6 ¾	2 %	3 1/2	10 1/8	10 1/2	6	3/4	4	10	3 1/4	6 %	45°							9.0
3	36		1 %	5/8	3/4		12 3/8	5 1/4	6 ¾	2 %	3 1/2	10 %	10 1/2	6	3/4	4	10	3 1/4	6 %	45 °							9.0
4	36		1 %	5/8	3/4		12 3/8	5 1/4	6 ¾	2 %	3 1/2	10 1/8	10 1/2	6	3/4	4	10	3 1/4	6 %	45°							9.0
5	48		2 1/4	₹4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1	5	13 1/4	4 1/4	9 1/8	45°							16.0

STANDARD SIGN W1 - 10

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE <u>5/17/12</u>

PLATE NO. W1-10.3

W1-10R

.|← H →|← P→

HWY:

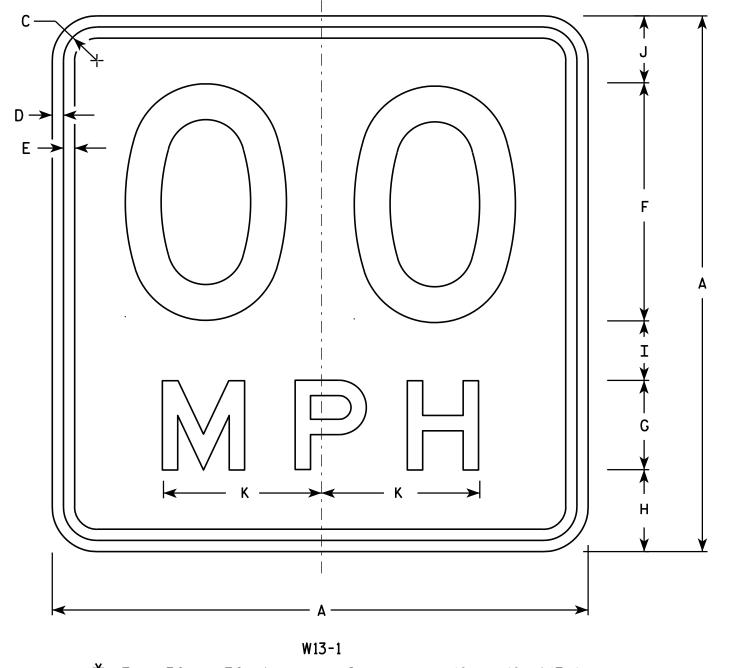
COUNTY:

PLOT BY: mscsja

PLOT SCALE: 6.251989:1.000000

SHEET NO:

PROJECT NO:



 \star For 30" \times 30" Warning Signs, use 18" \times 18" W13-1 signs. For 36" \times 36" Warning Signs, use 24" \times 24" W13-1 signs.

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Message Series See Note 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	18		1 1/8	3∕8	3%	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2S	18		1 1/8	3%	3%	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

COUNTY:

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

Matthew

APPROVED -

For State Traffic Engineer

12 PLATE NO. W13-1.16

DATE 5/31/12

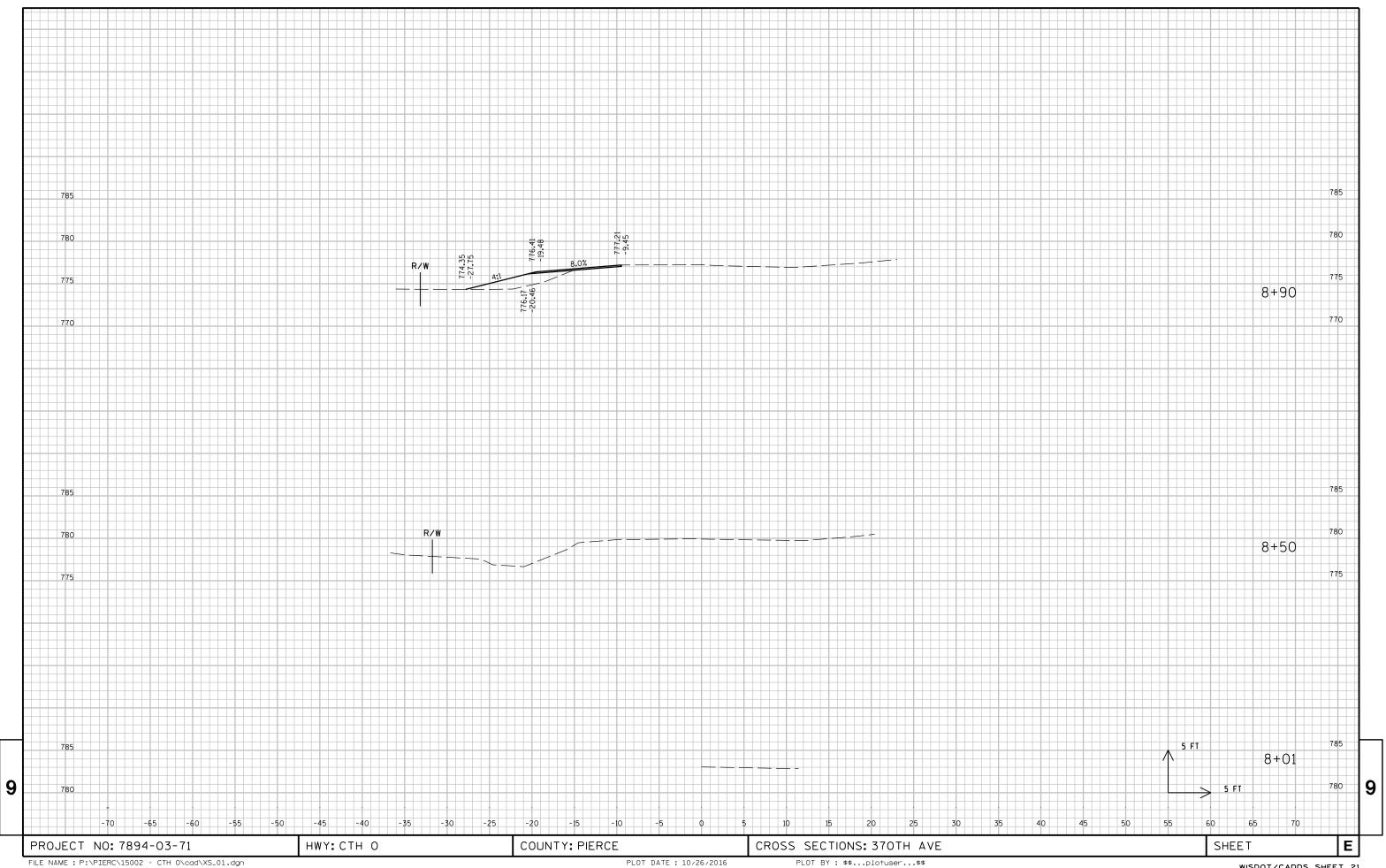
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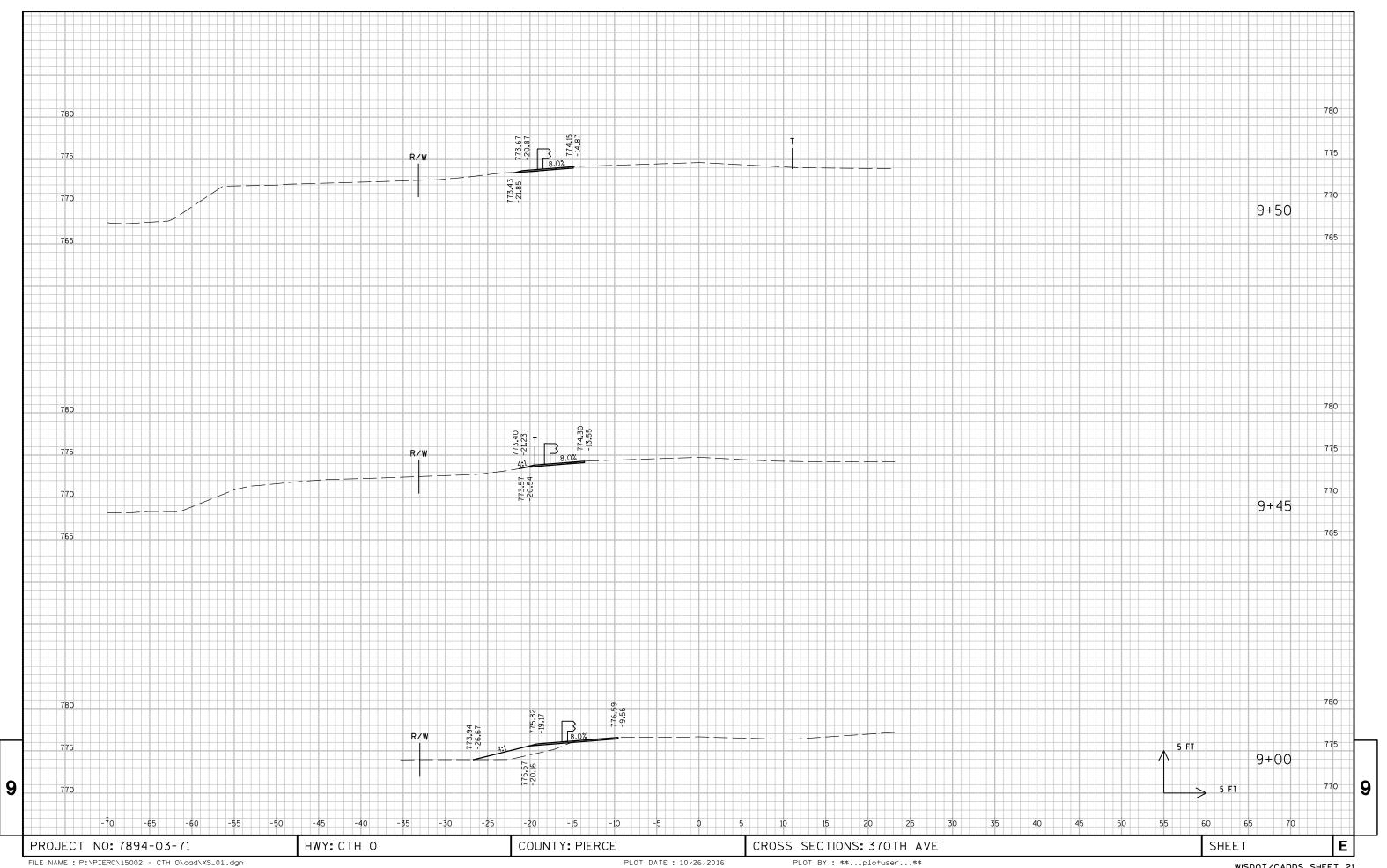
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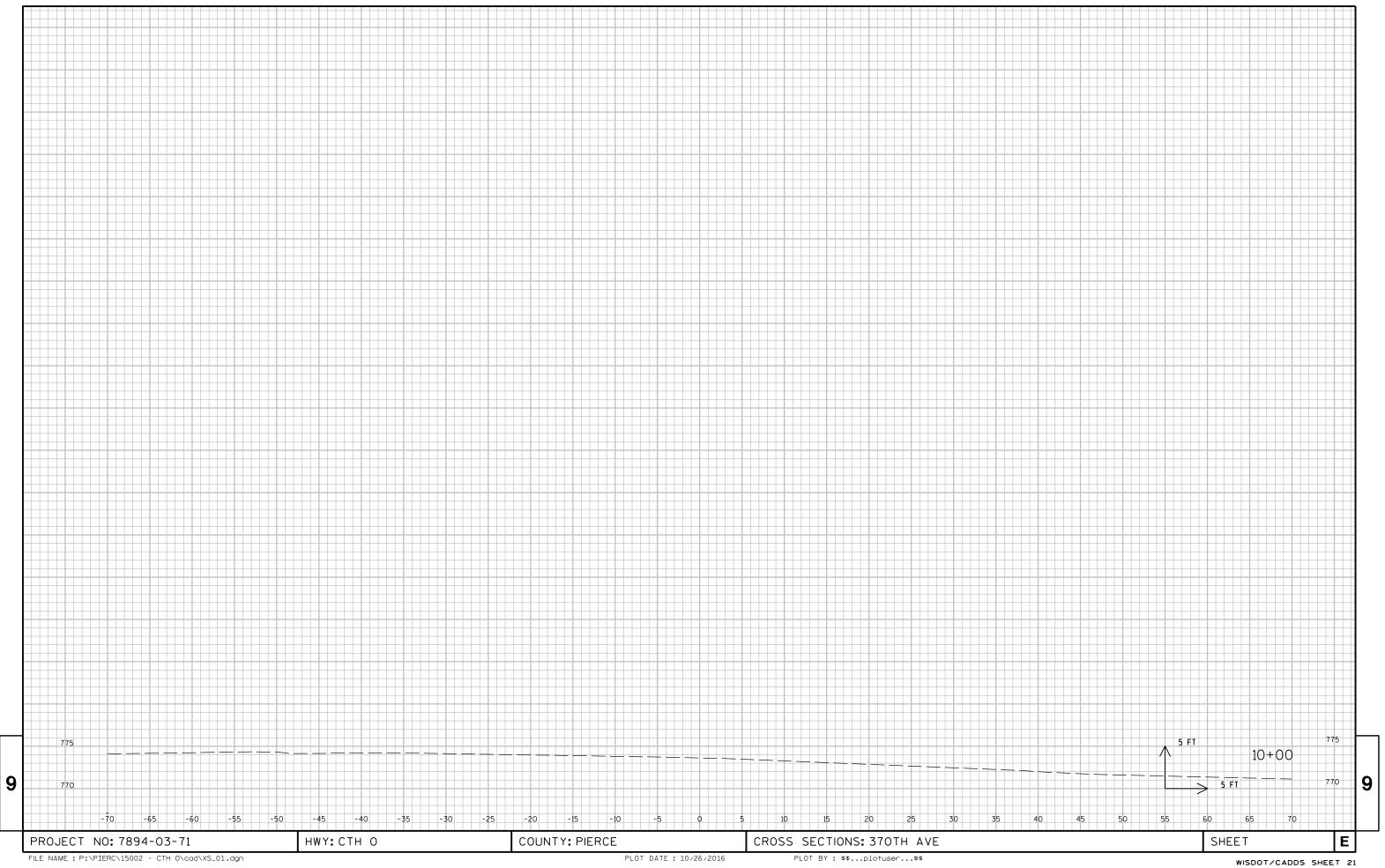
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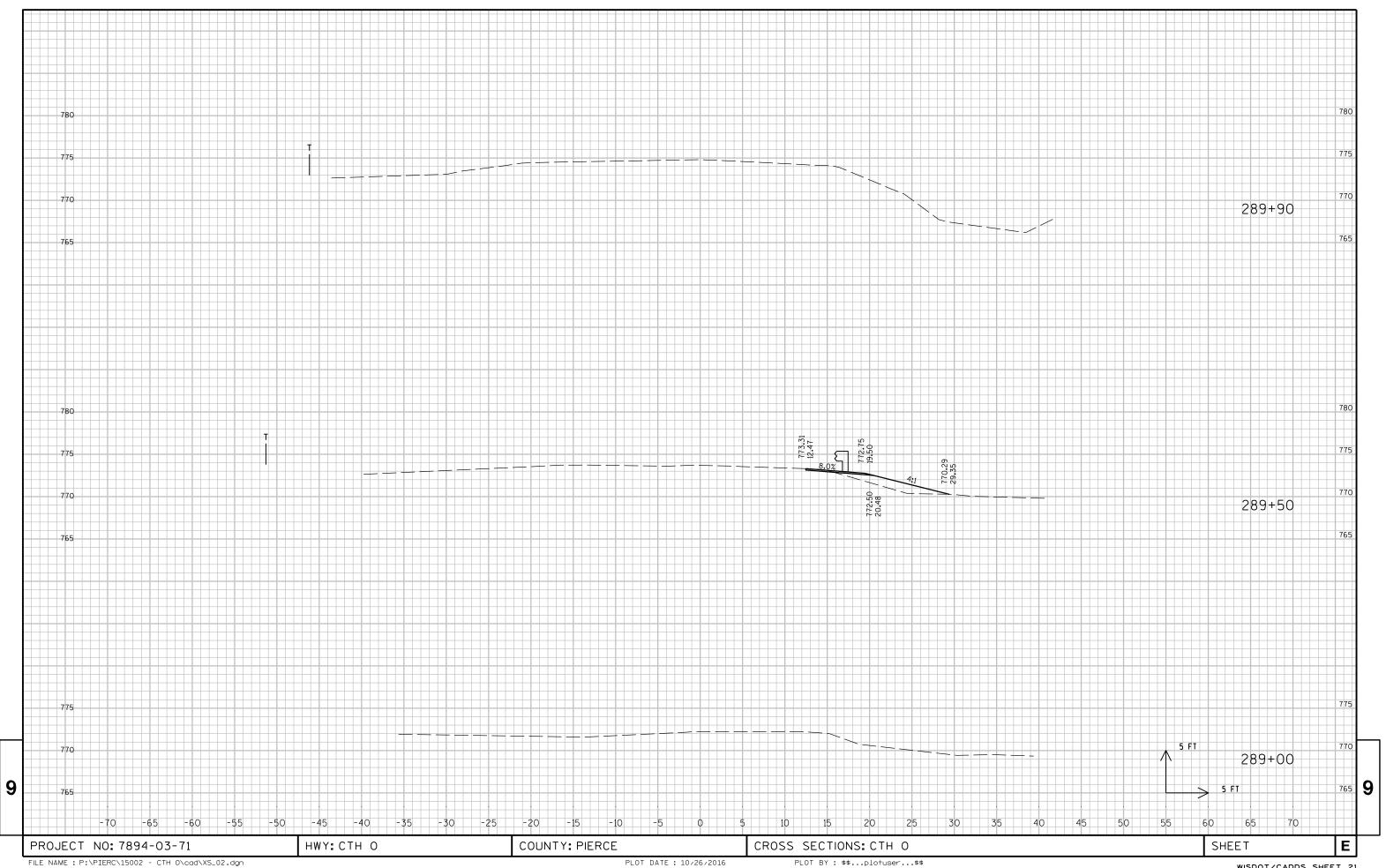
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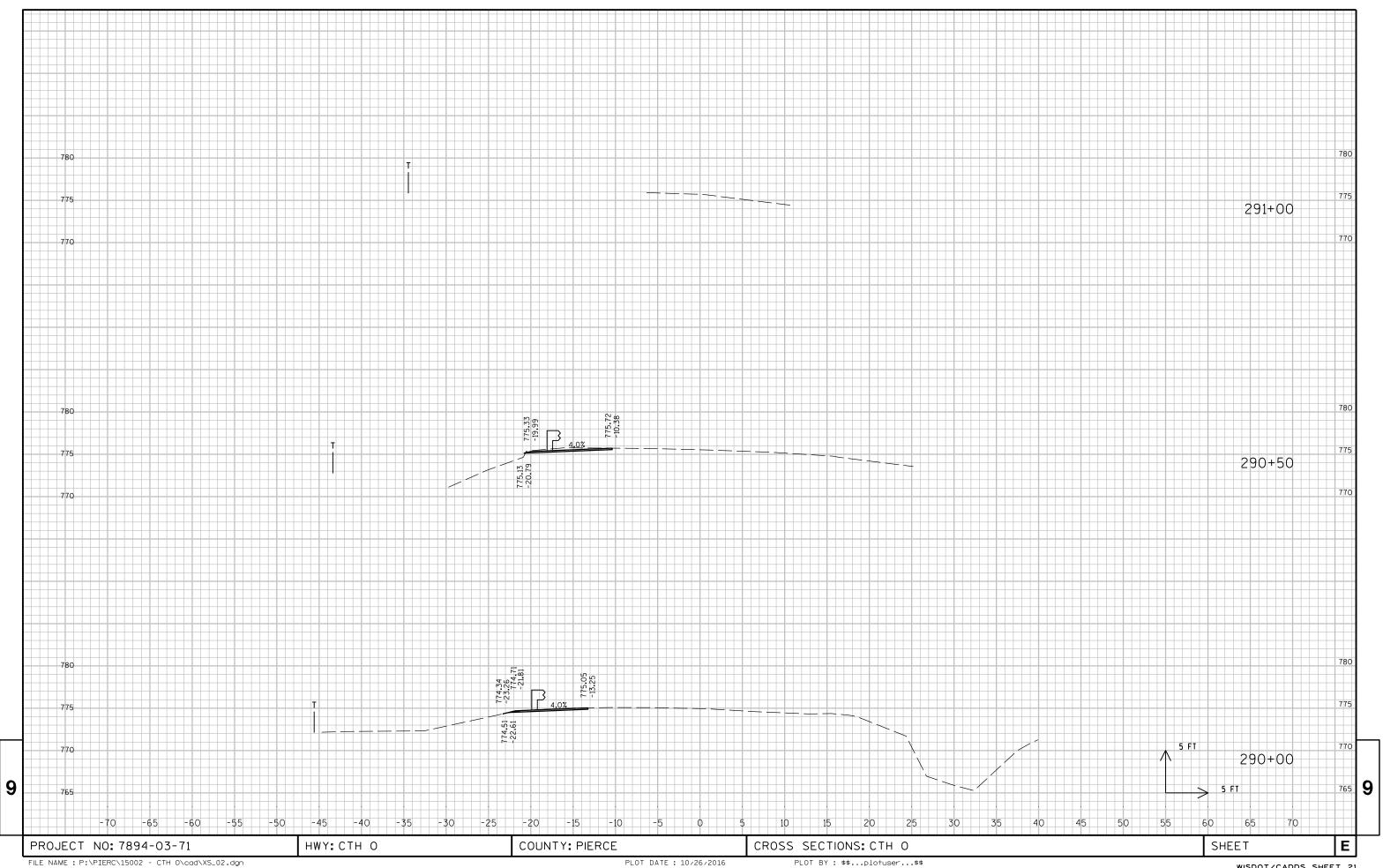
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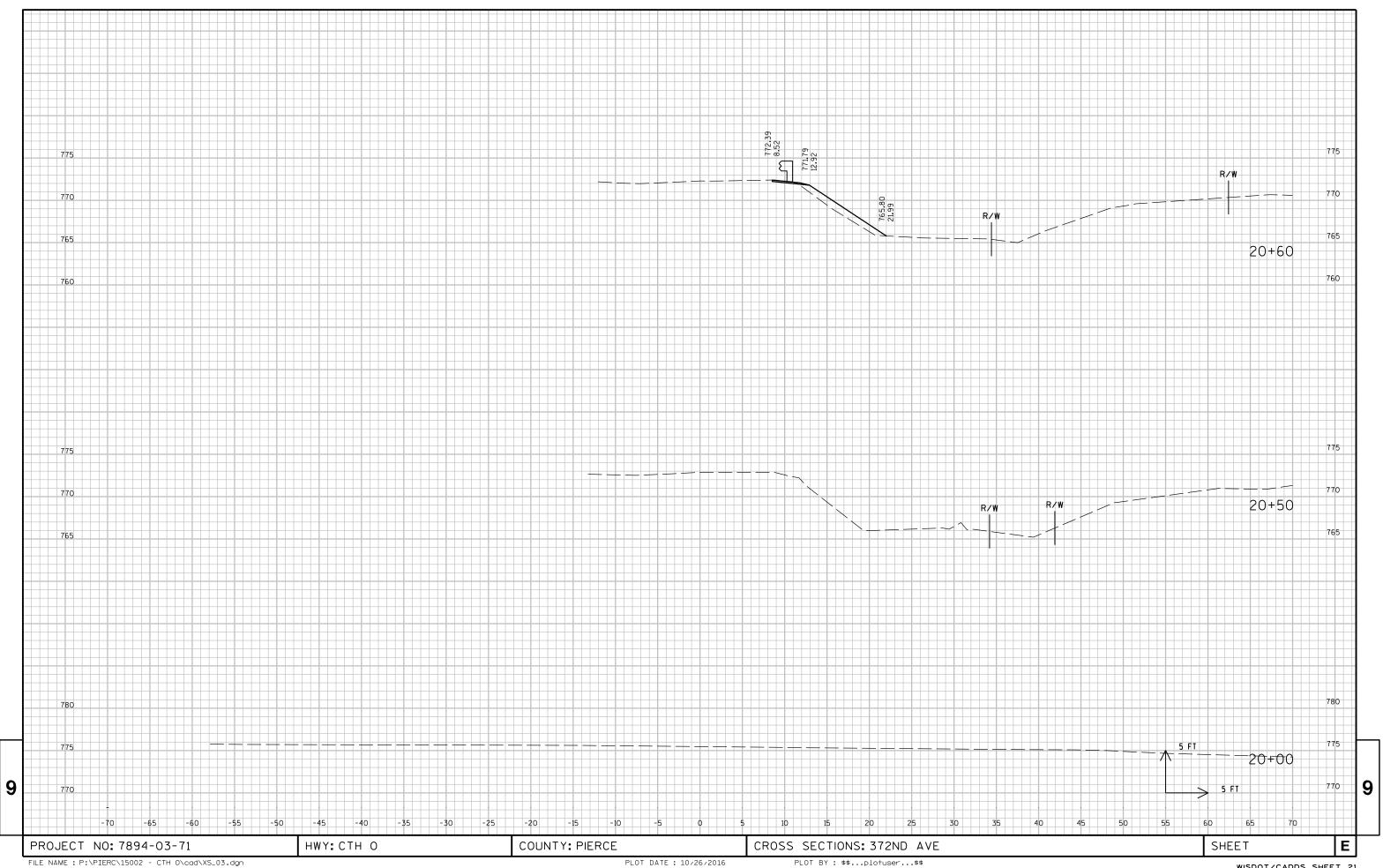


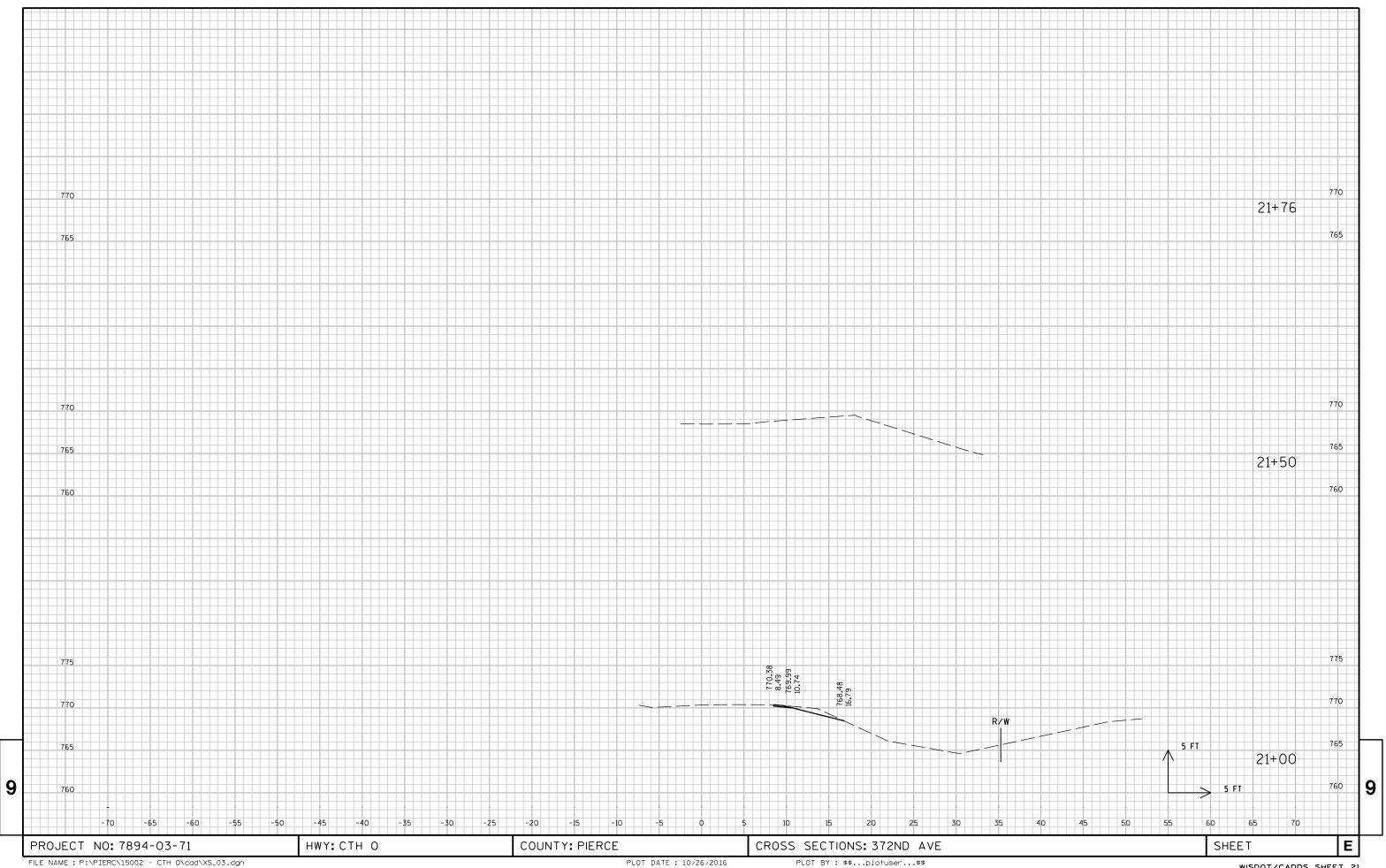


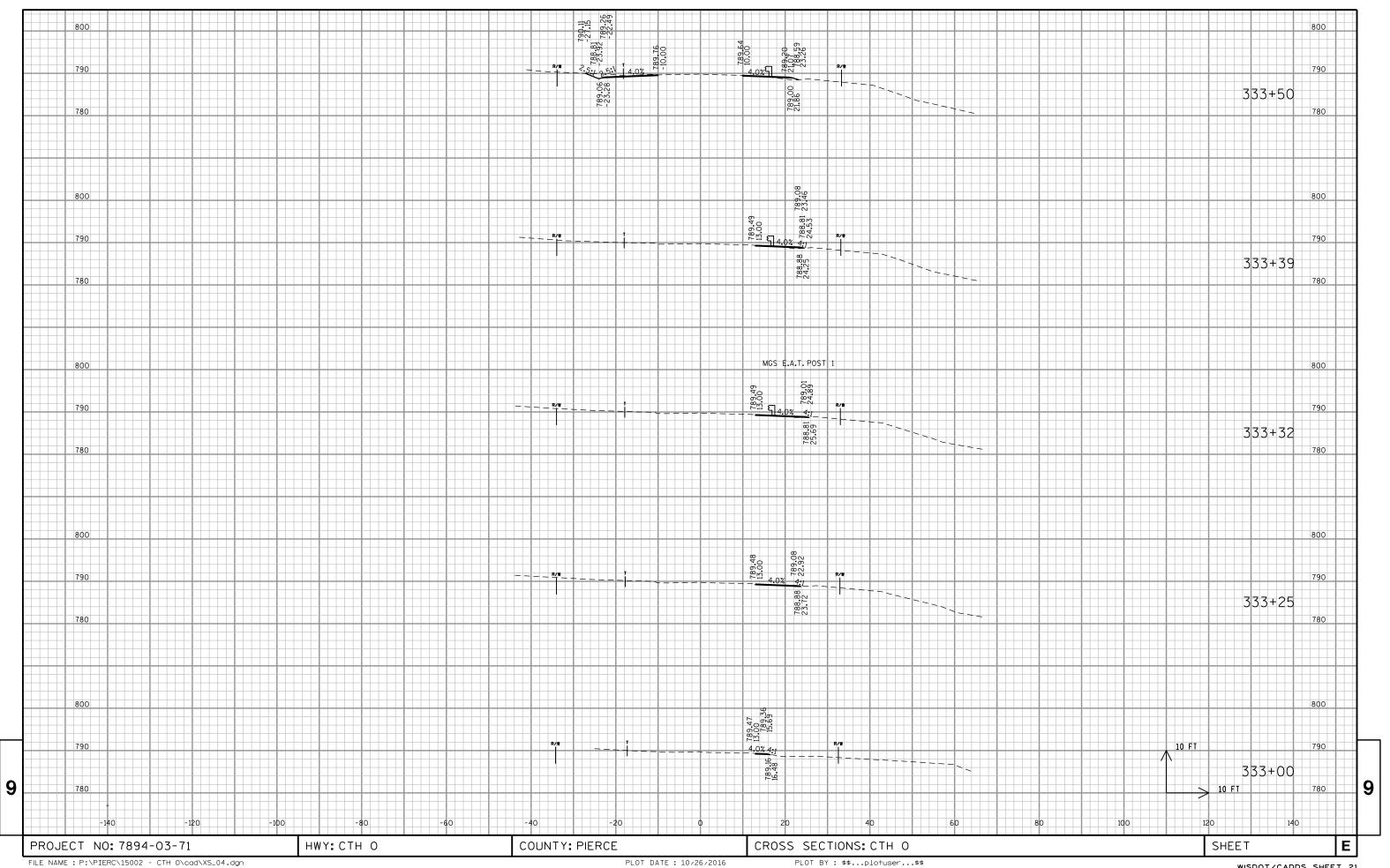


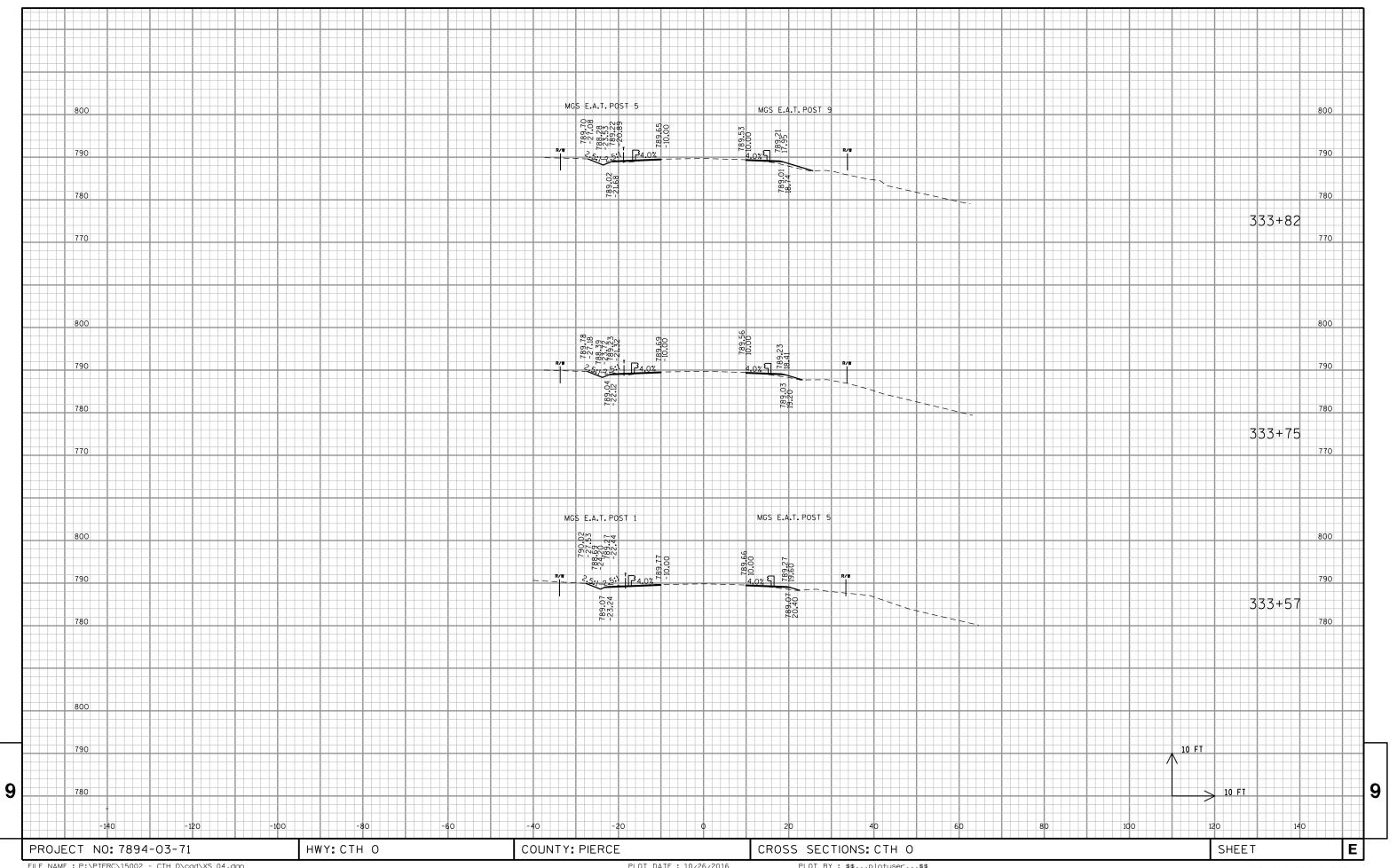


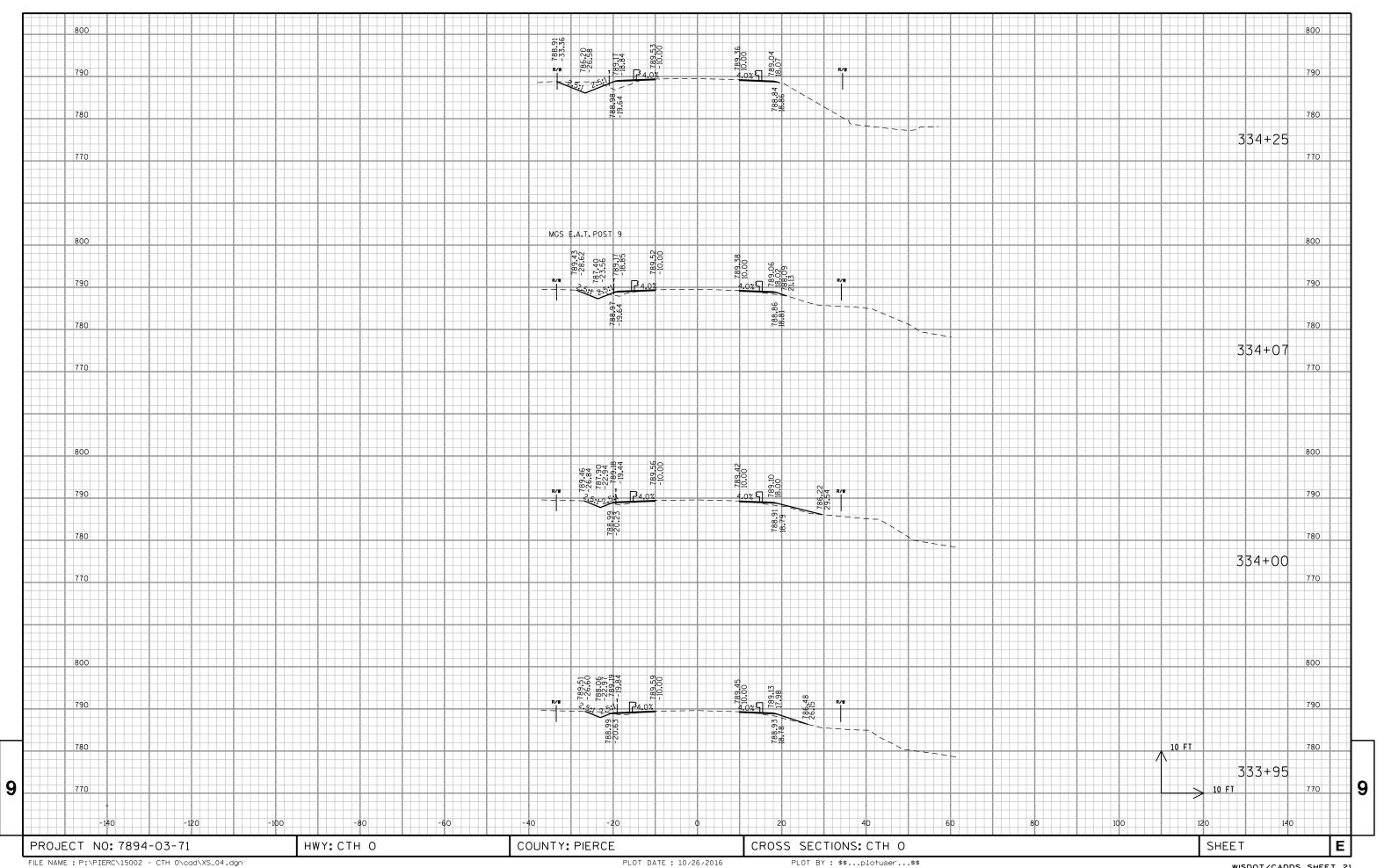


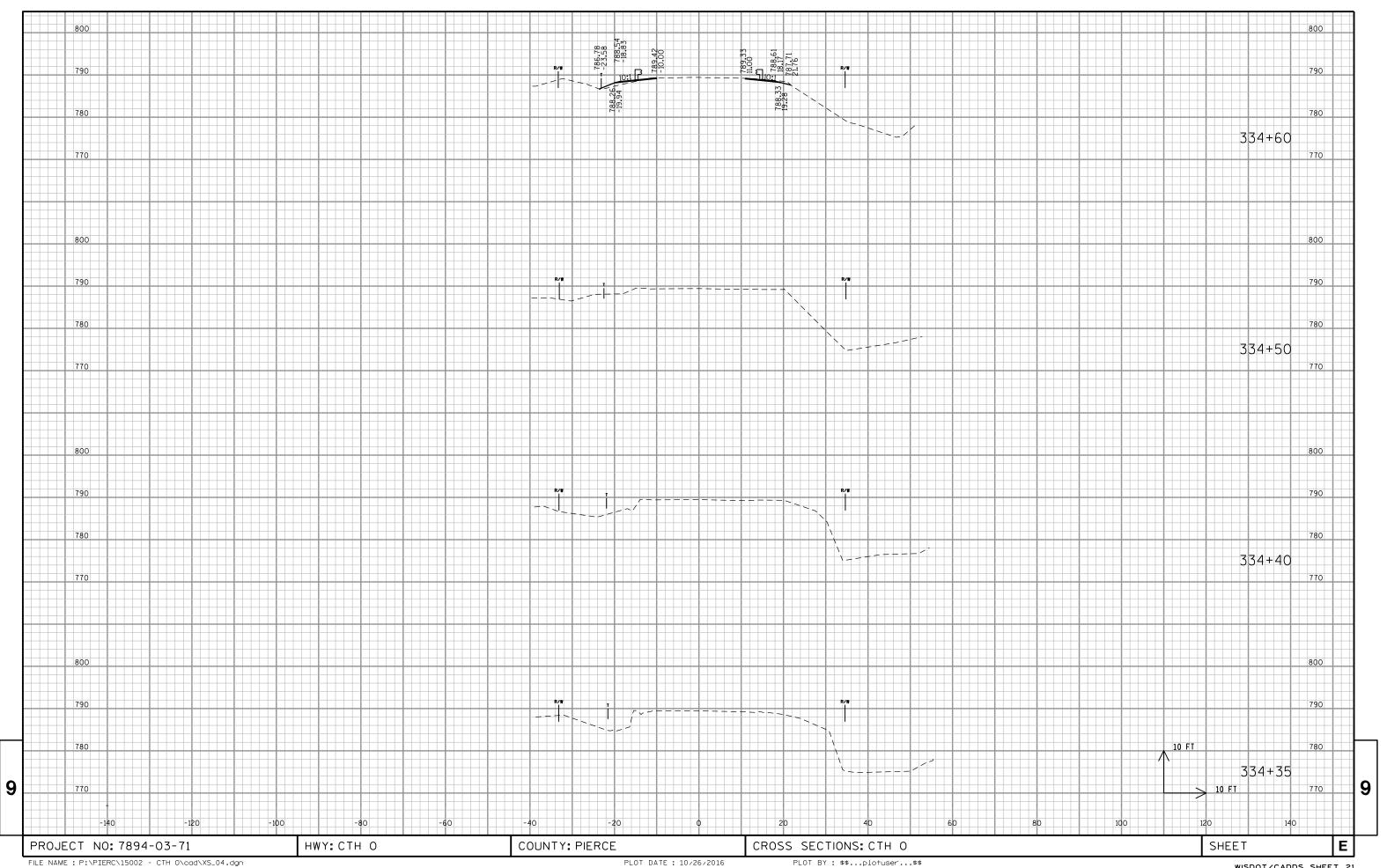


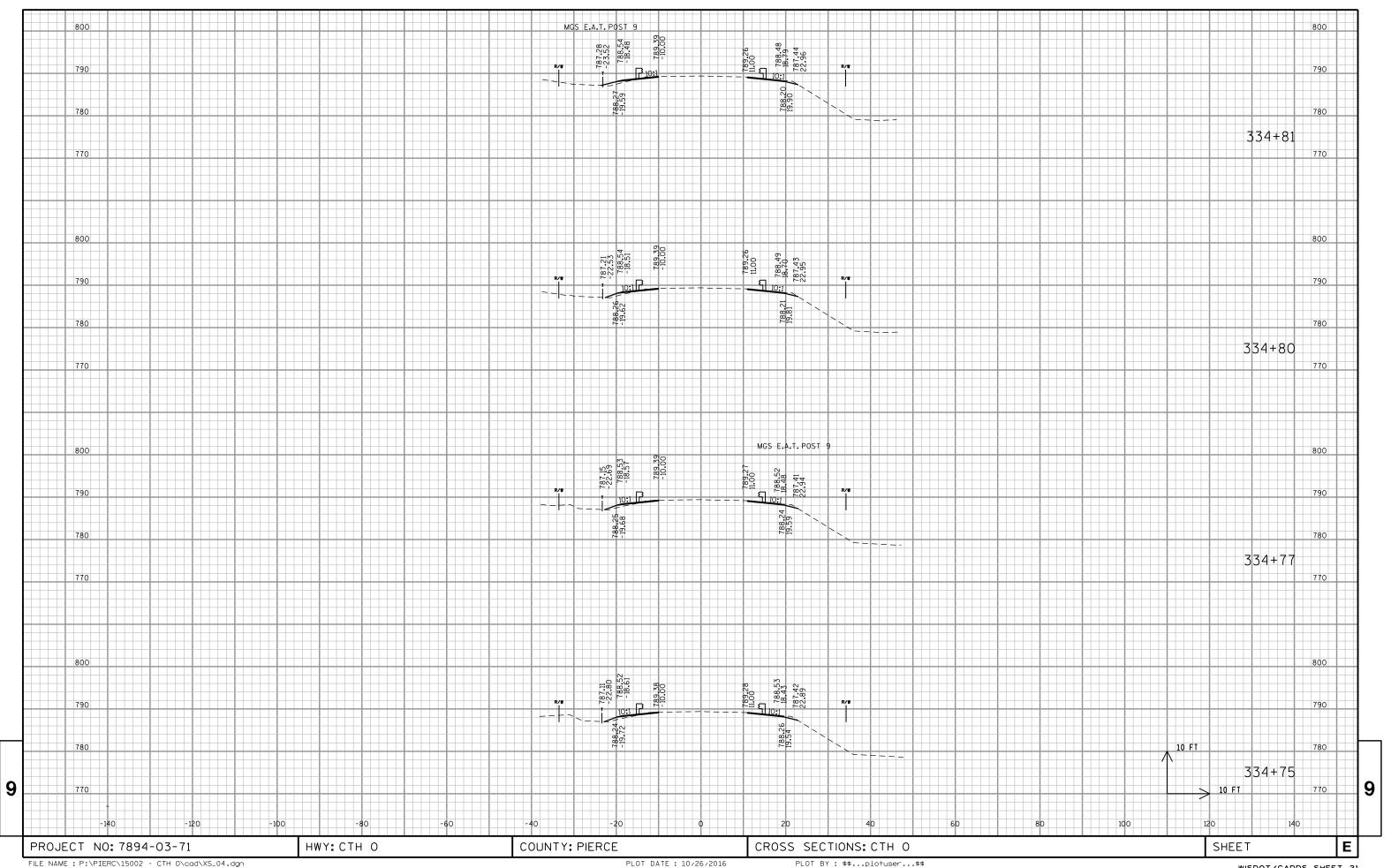


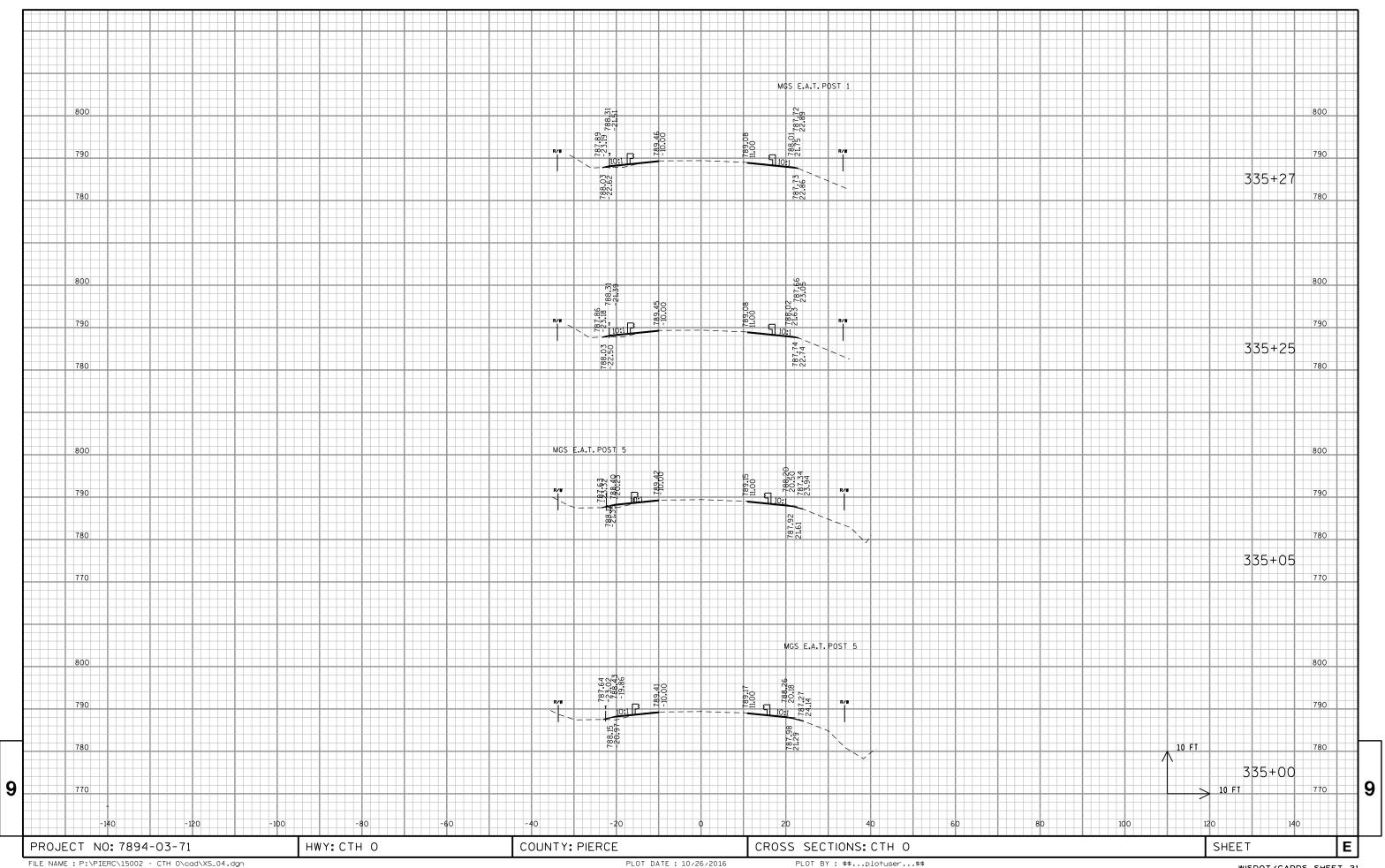


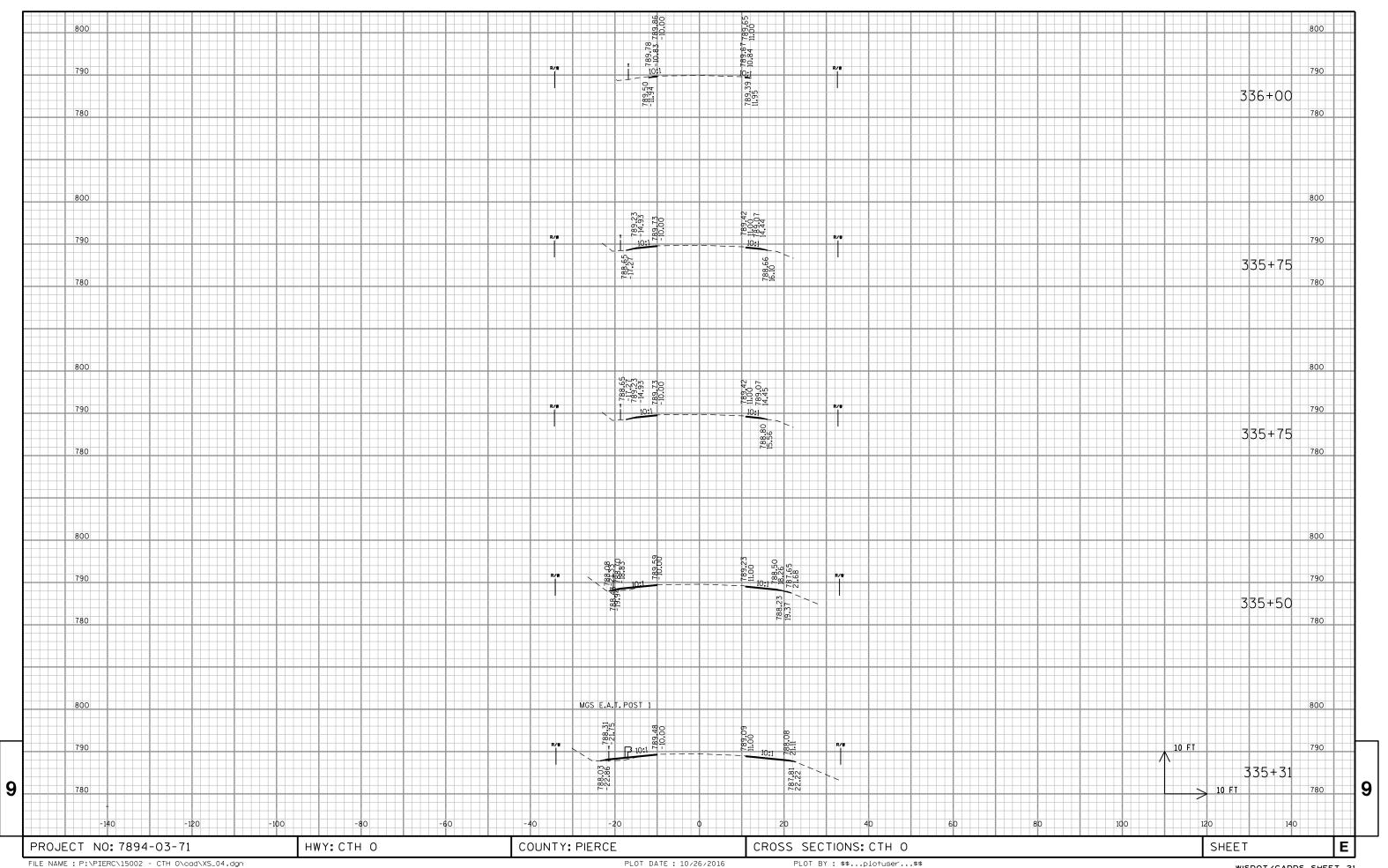


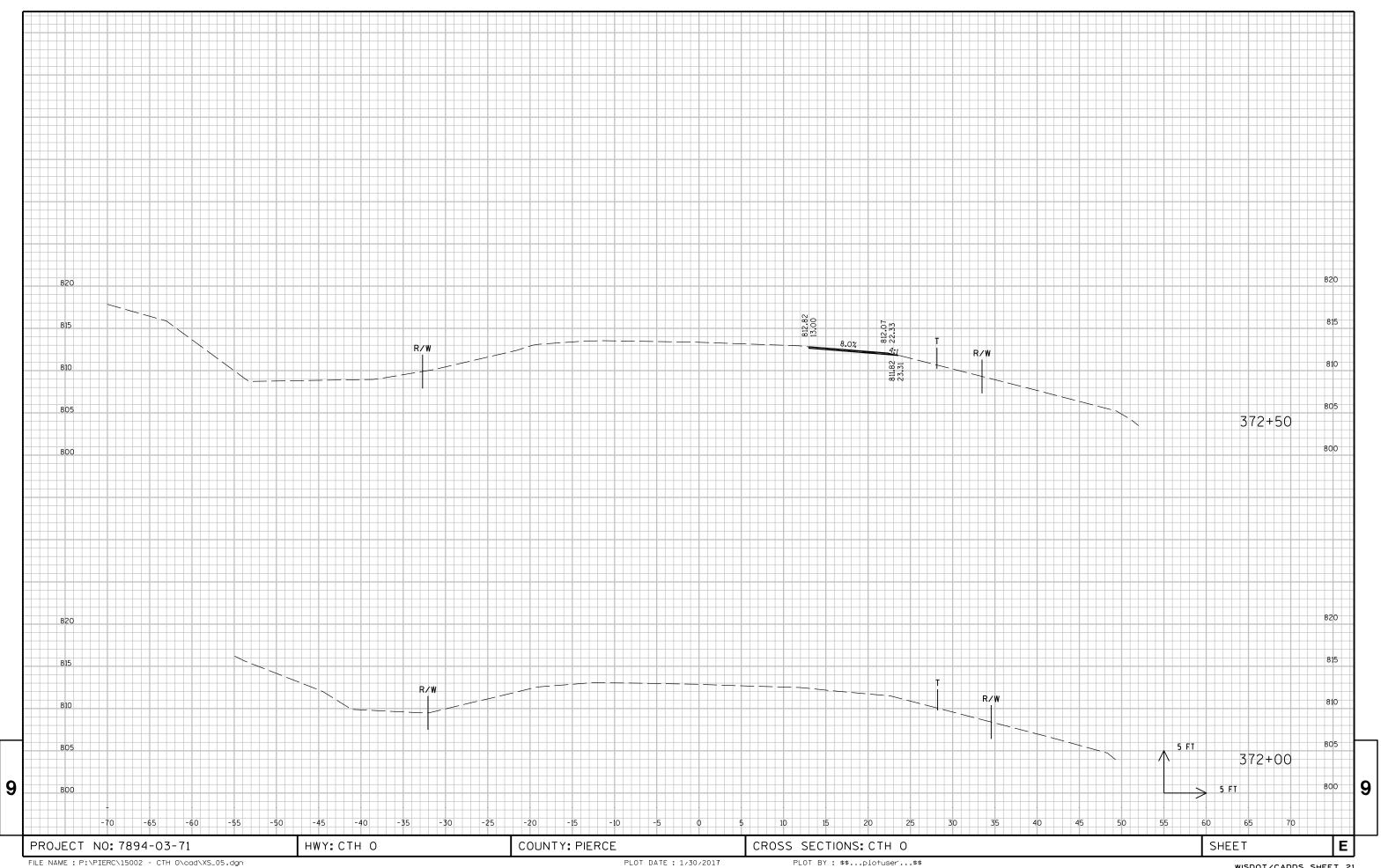


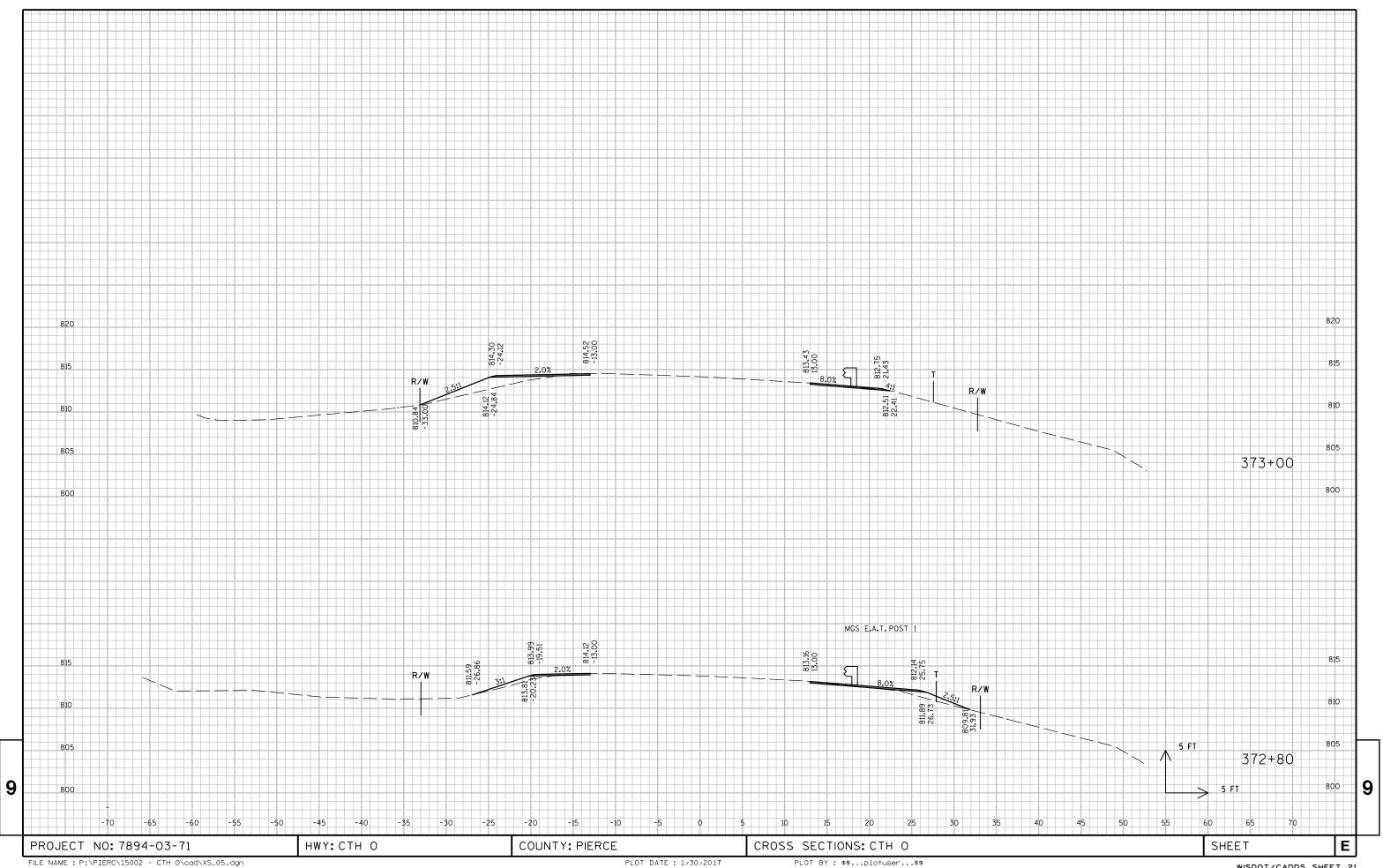


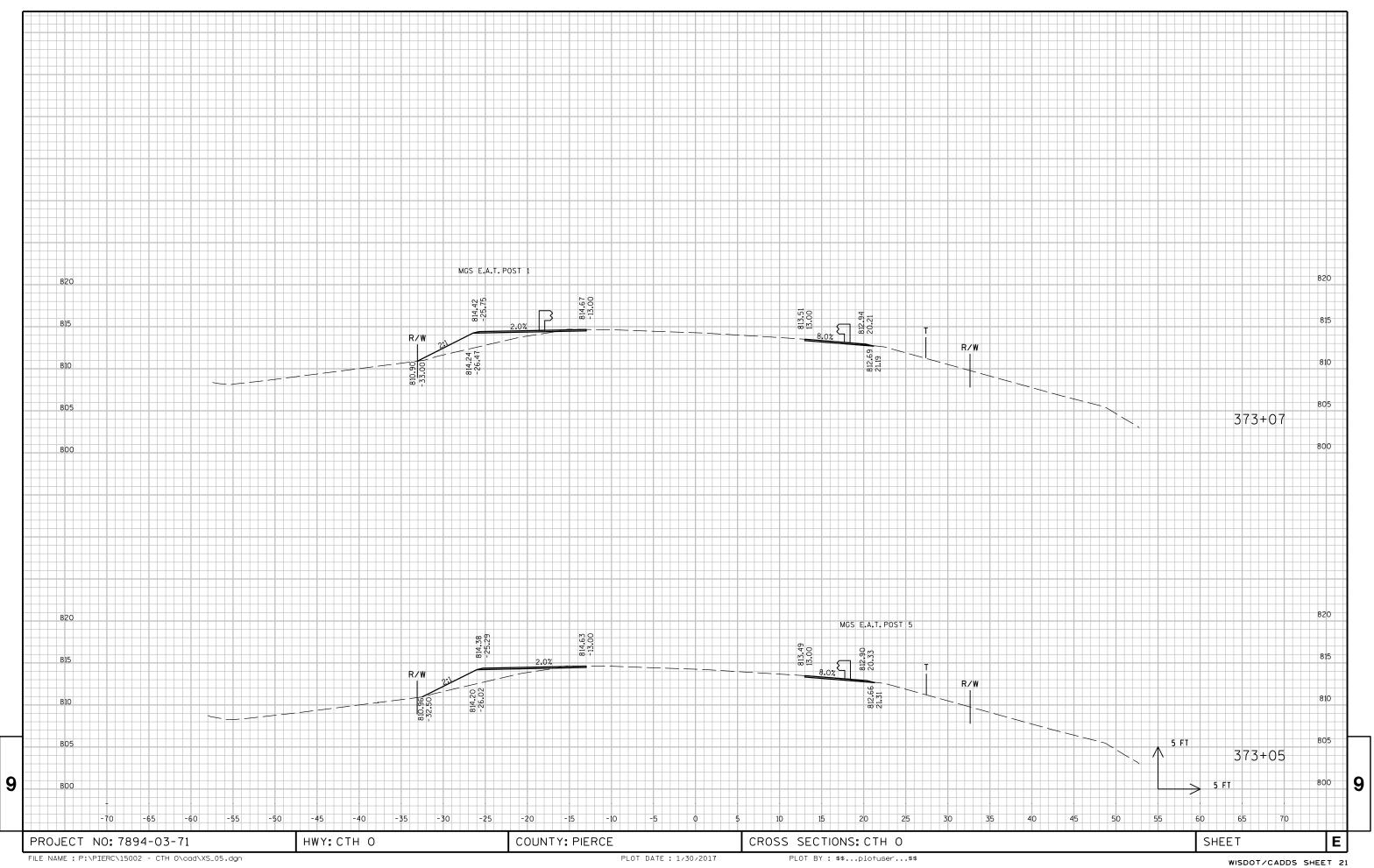


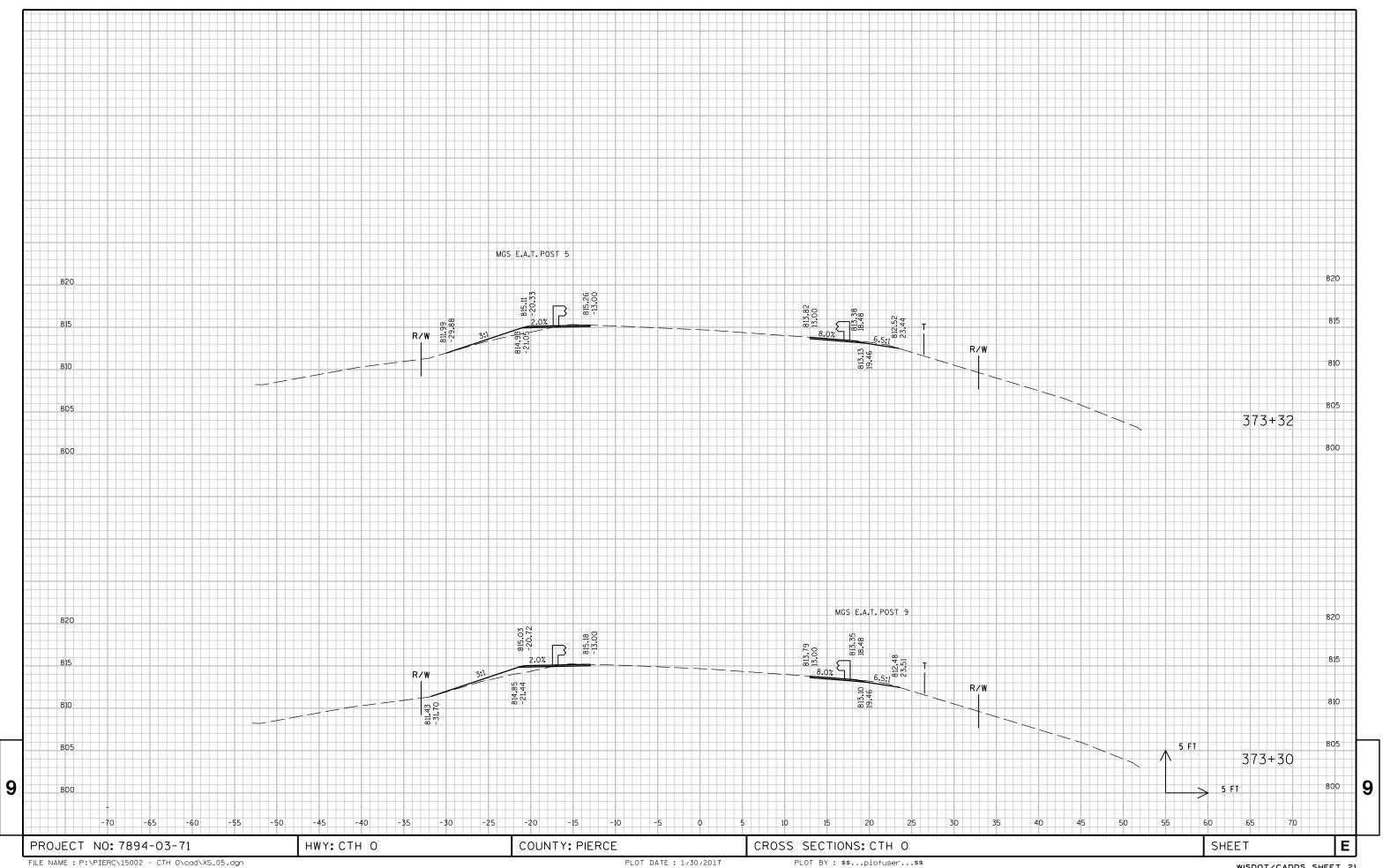


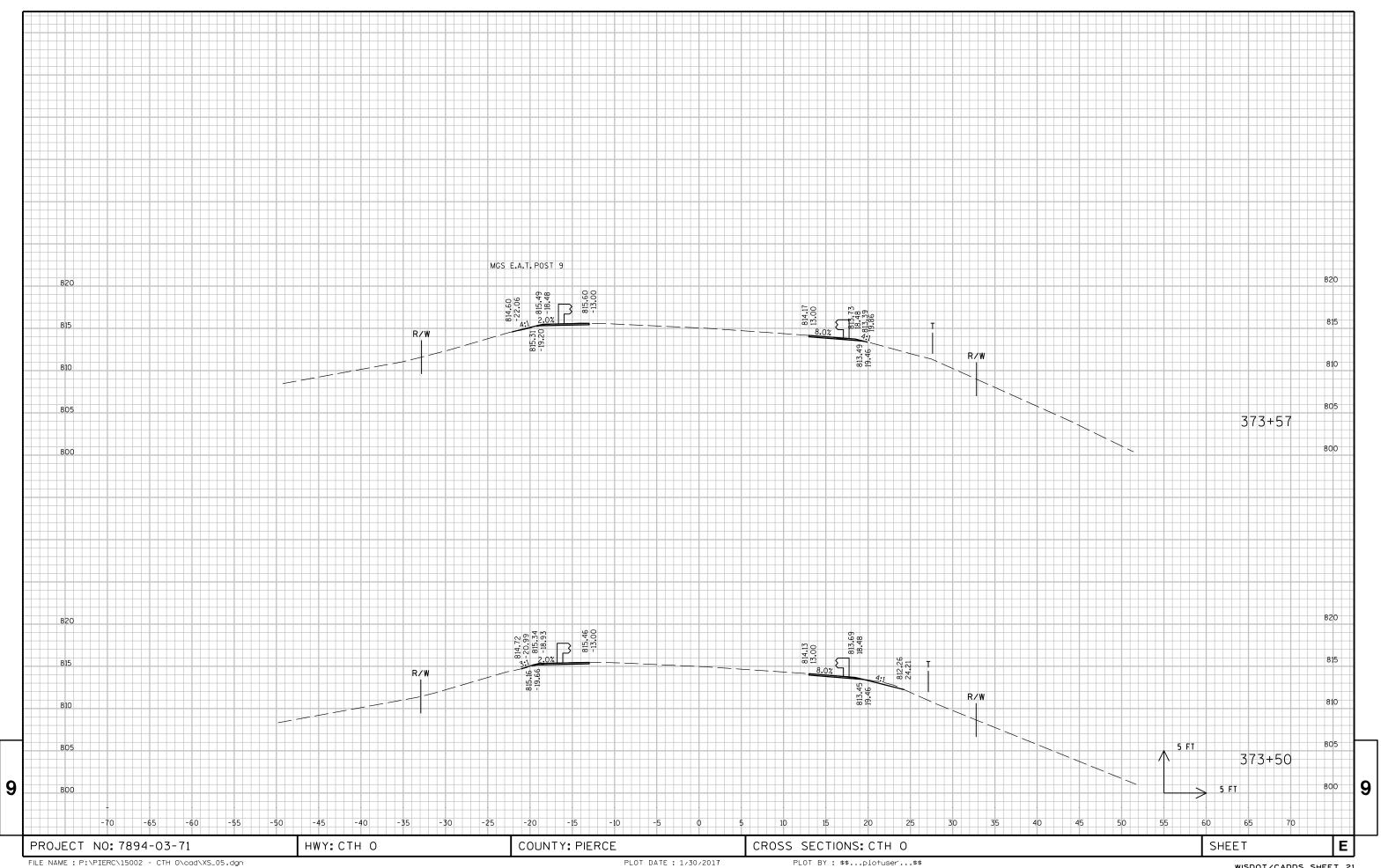


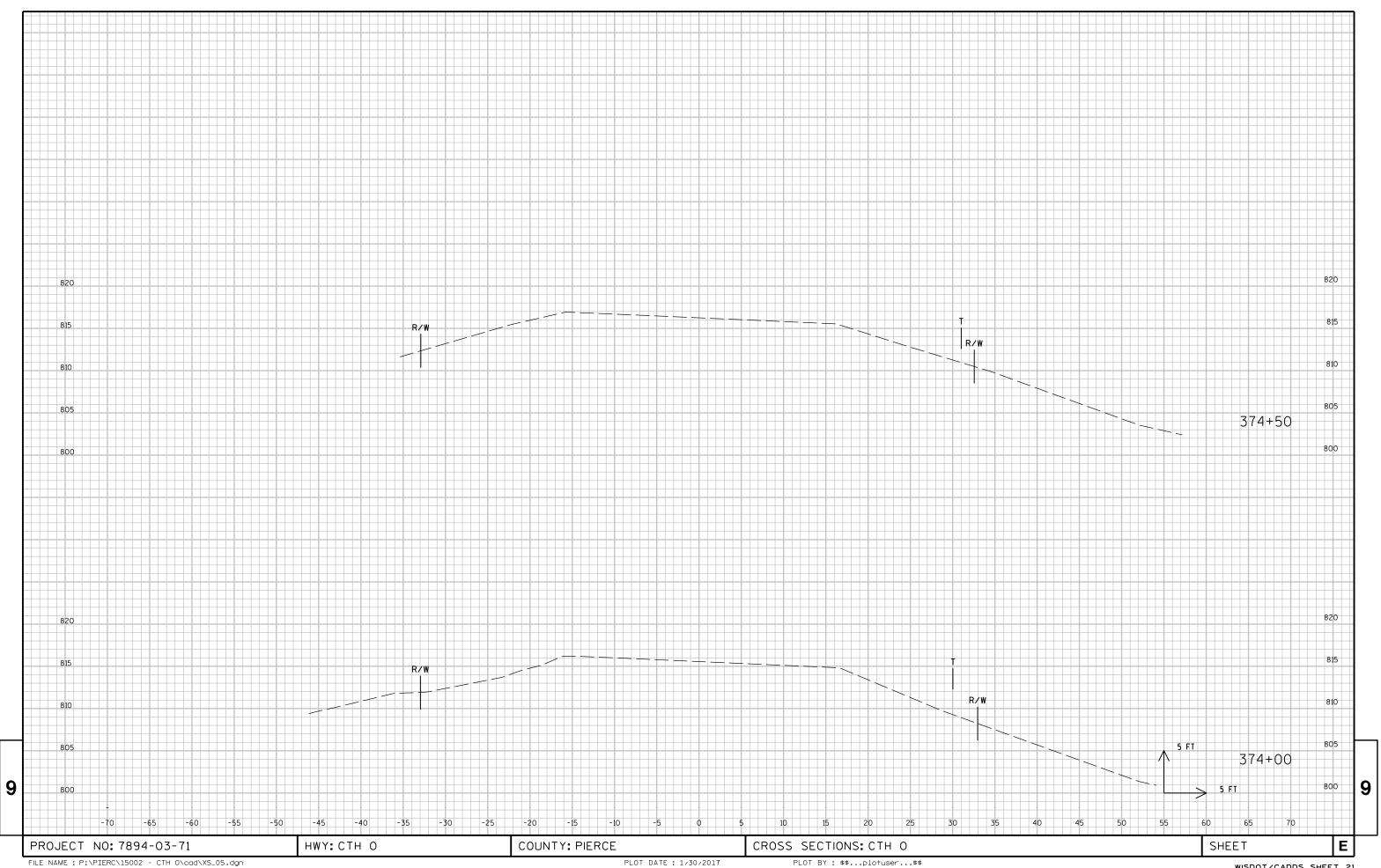




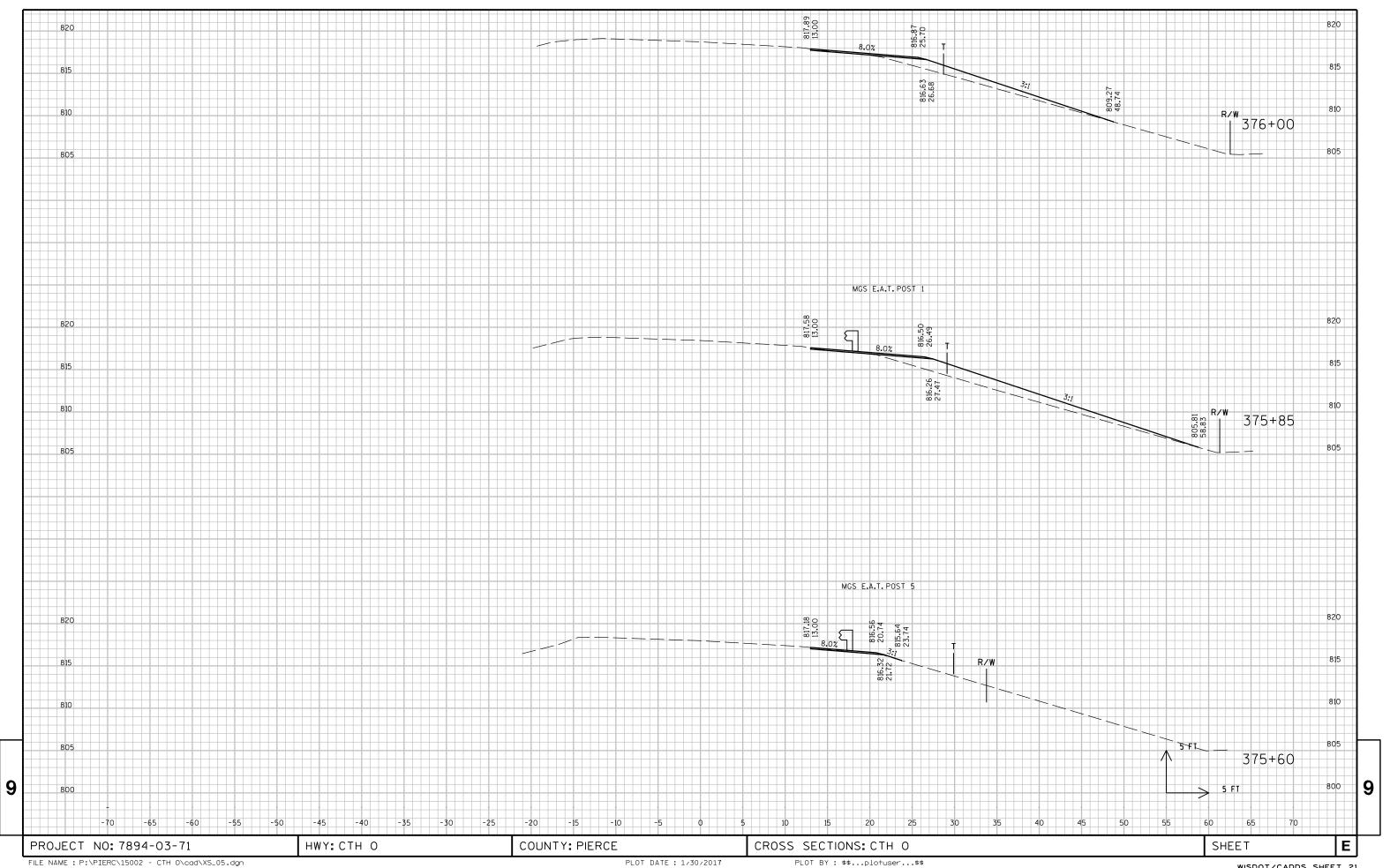


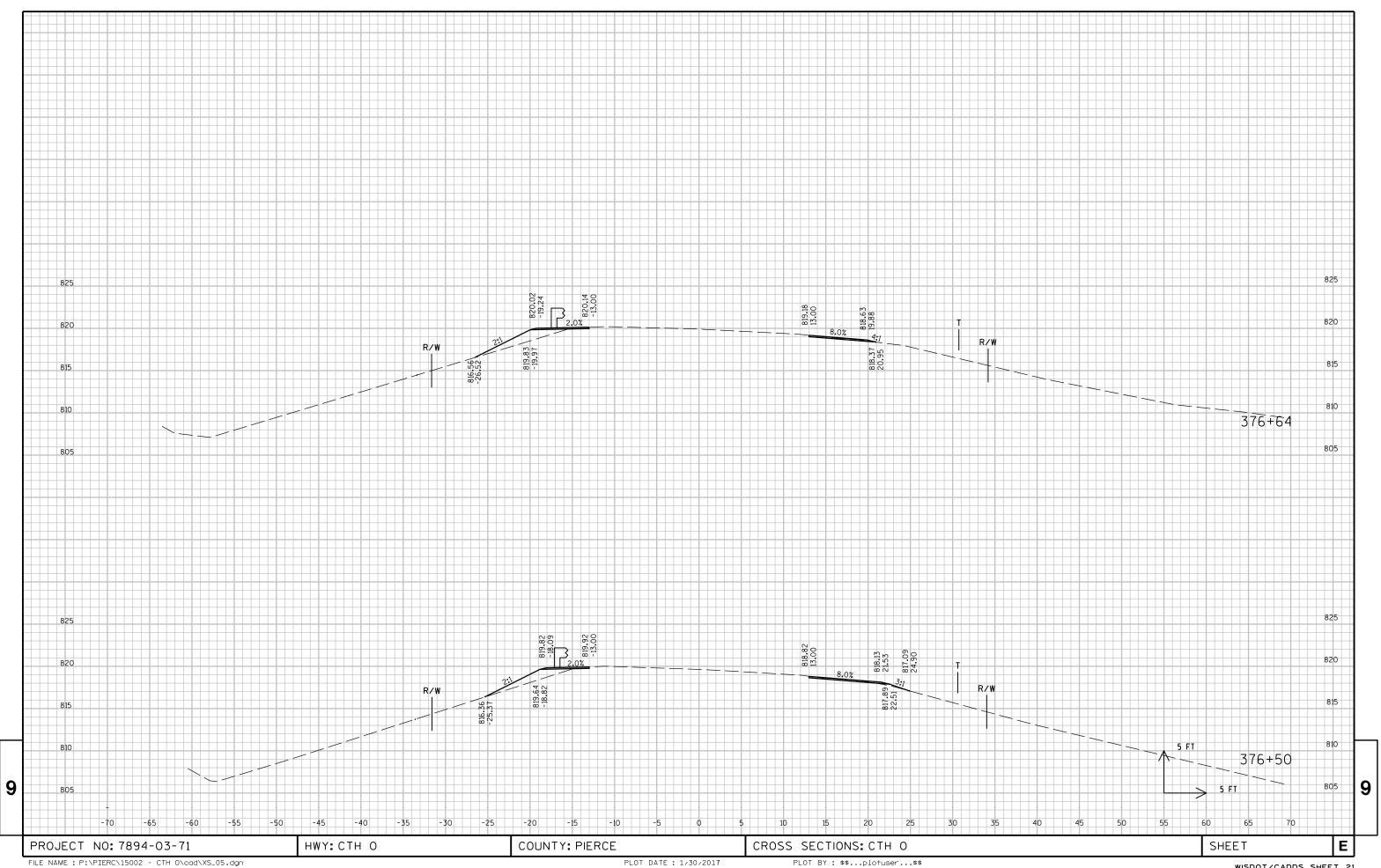


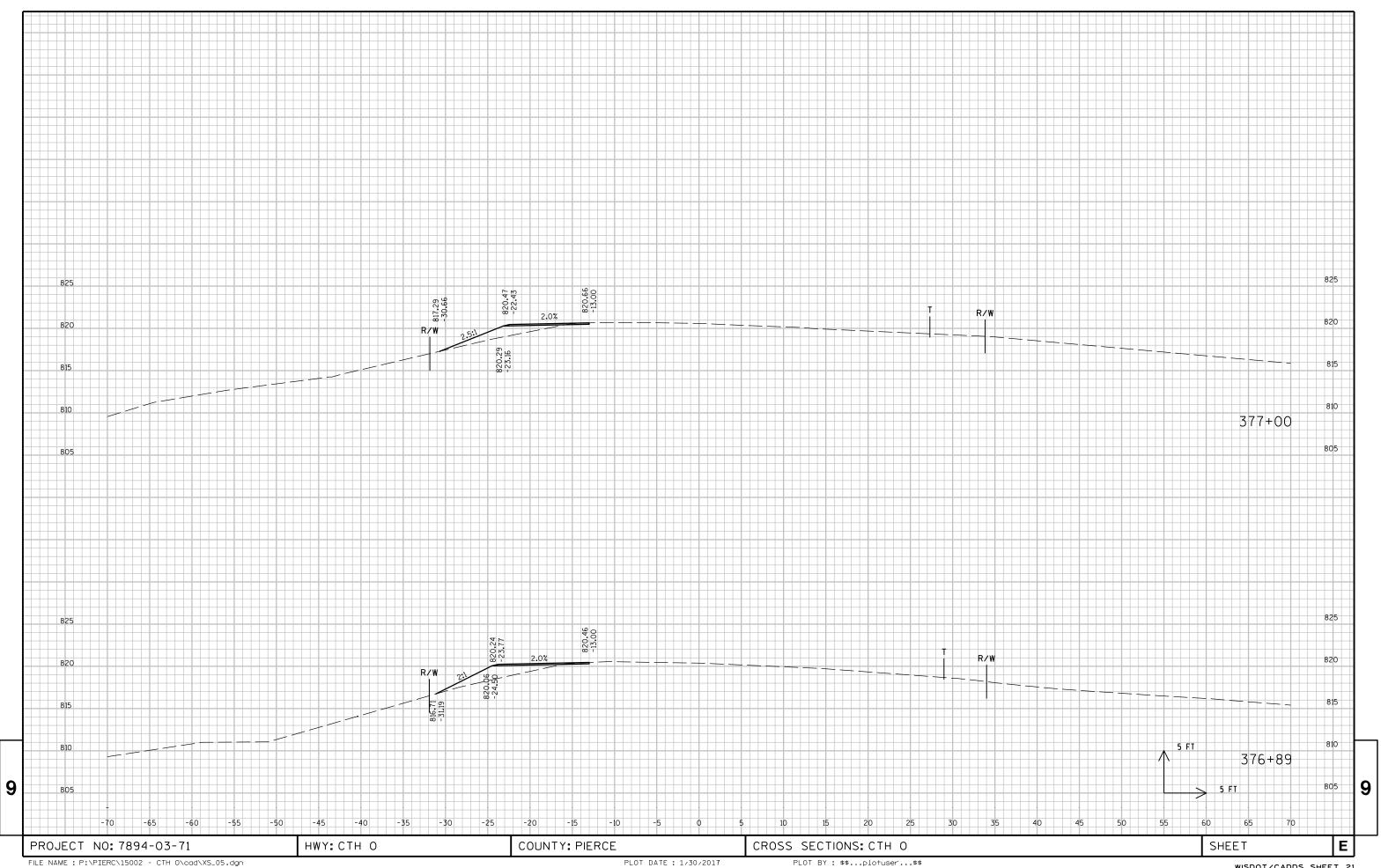


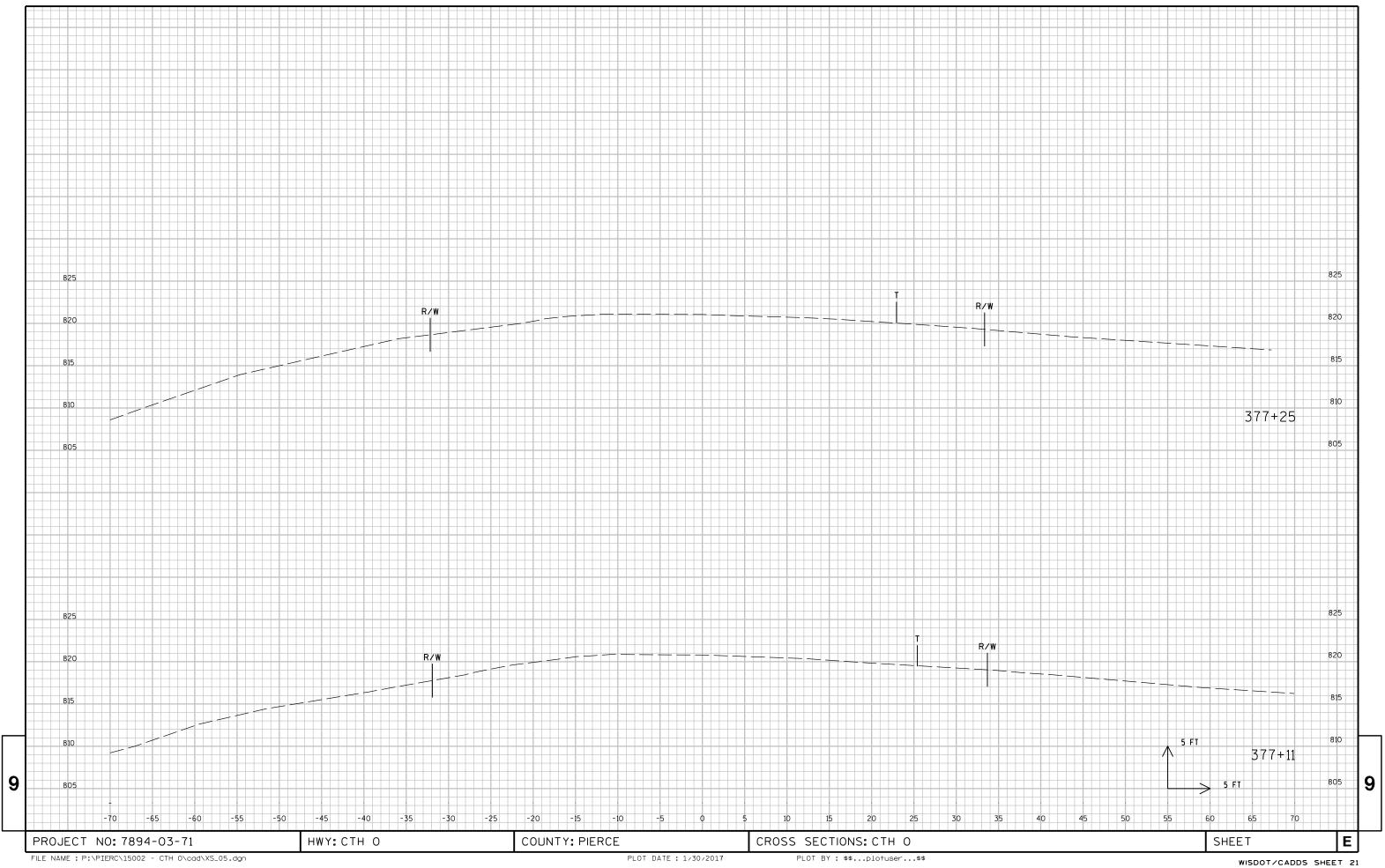


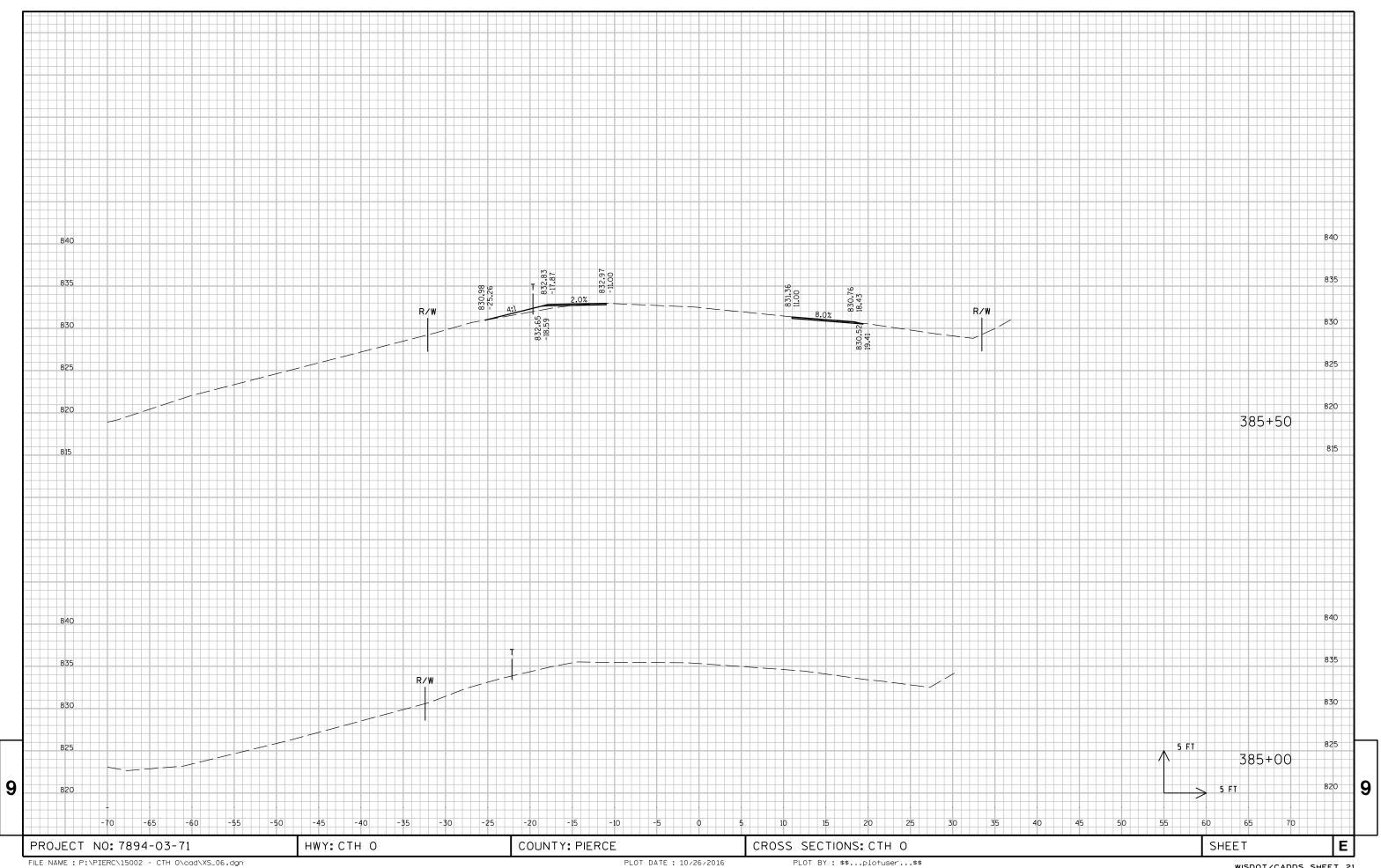


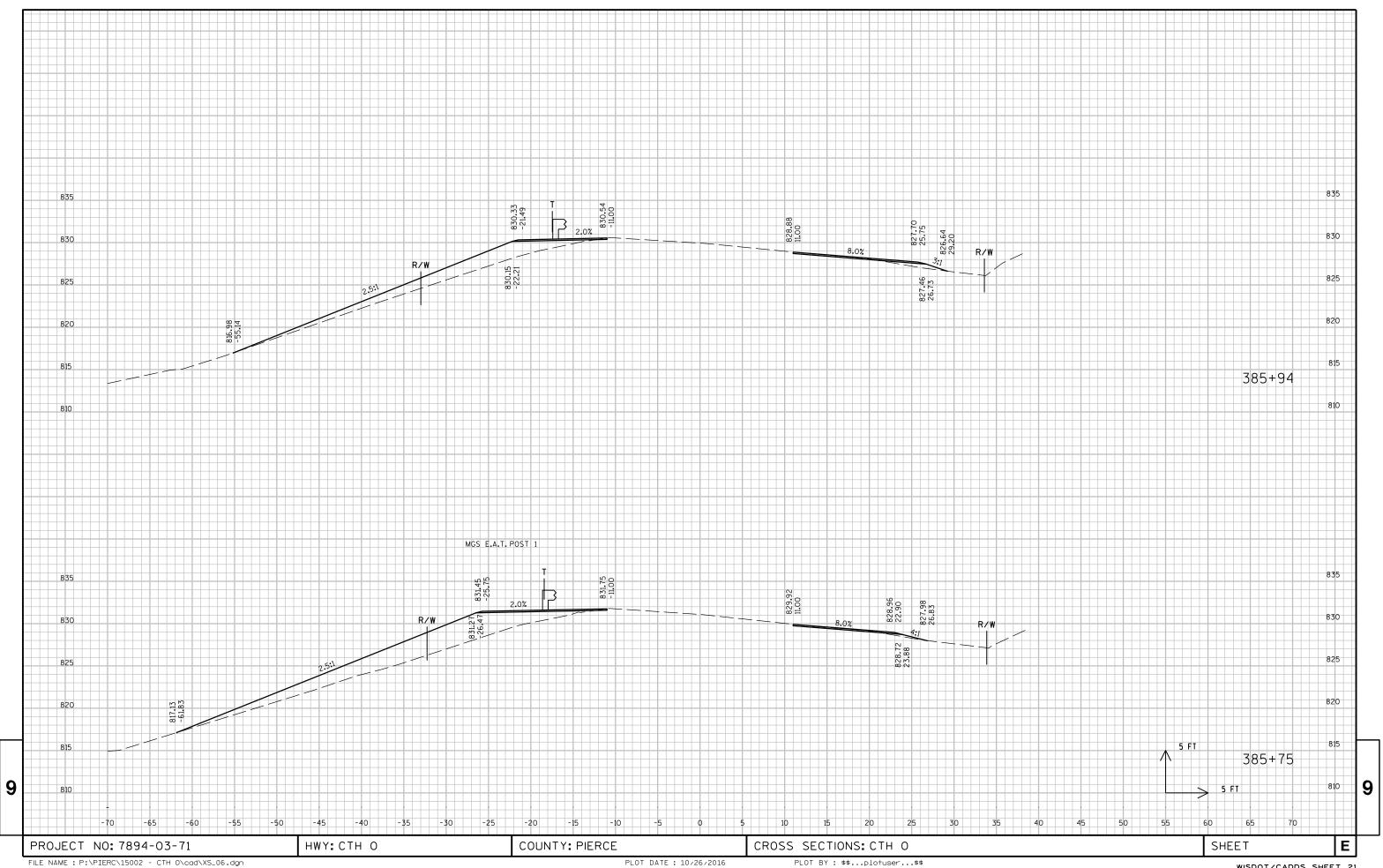


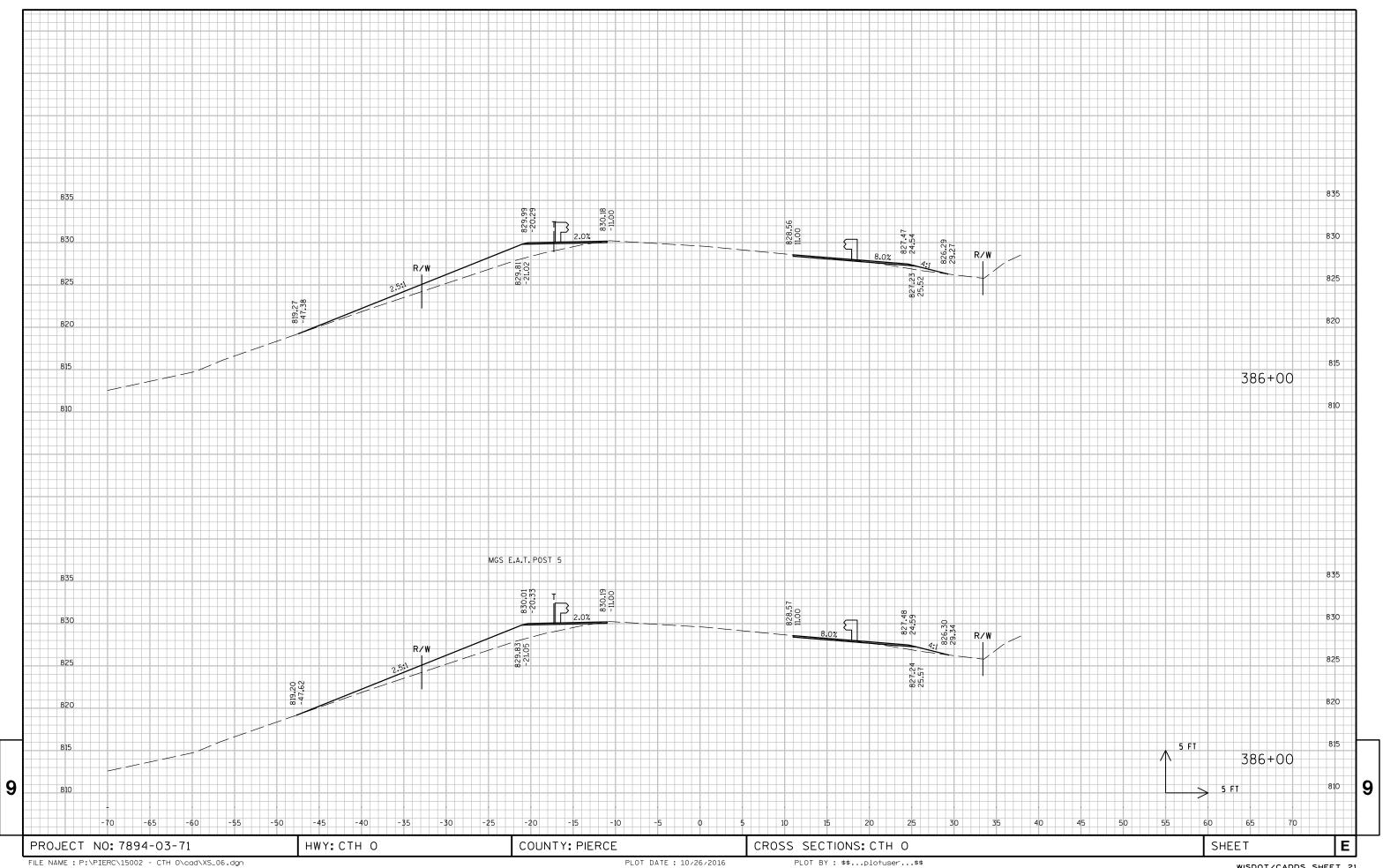


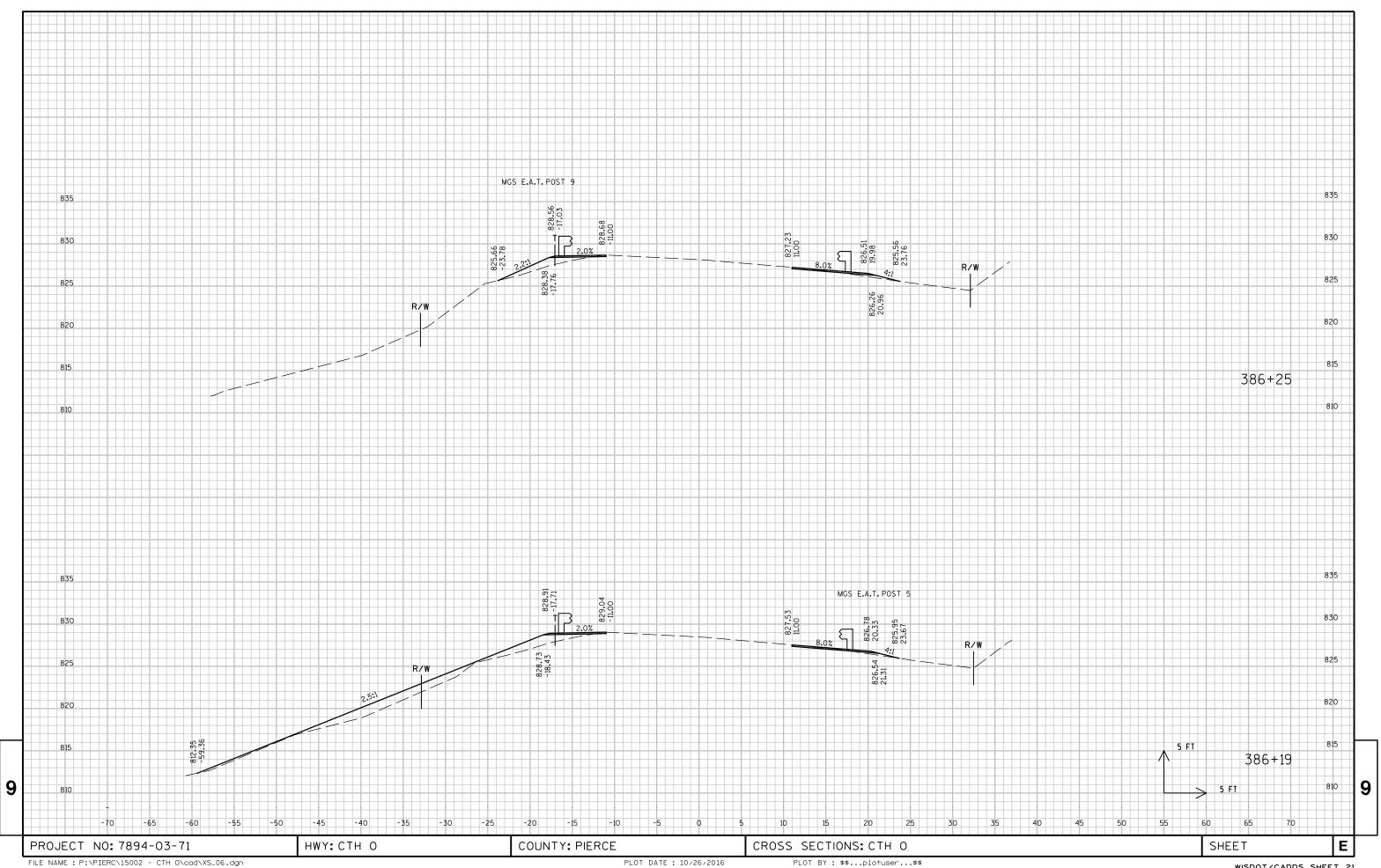


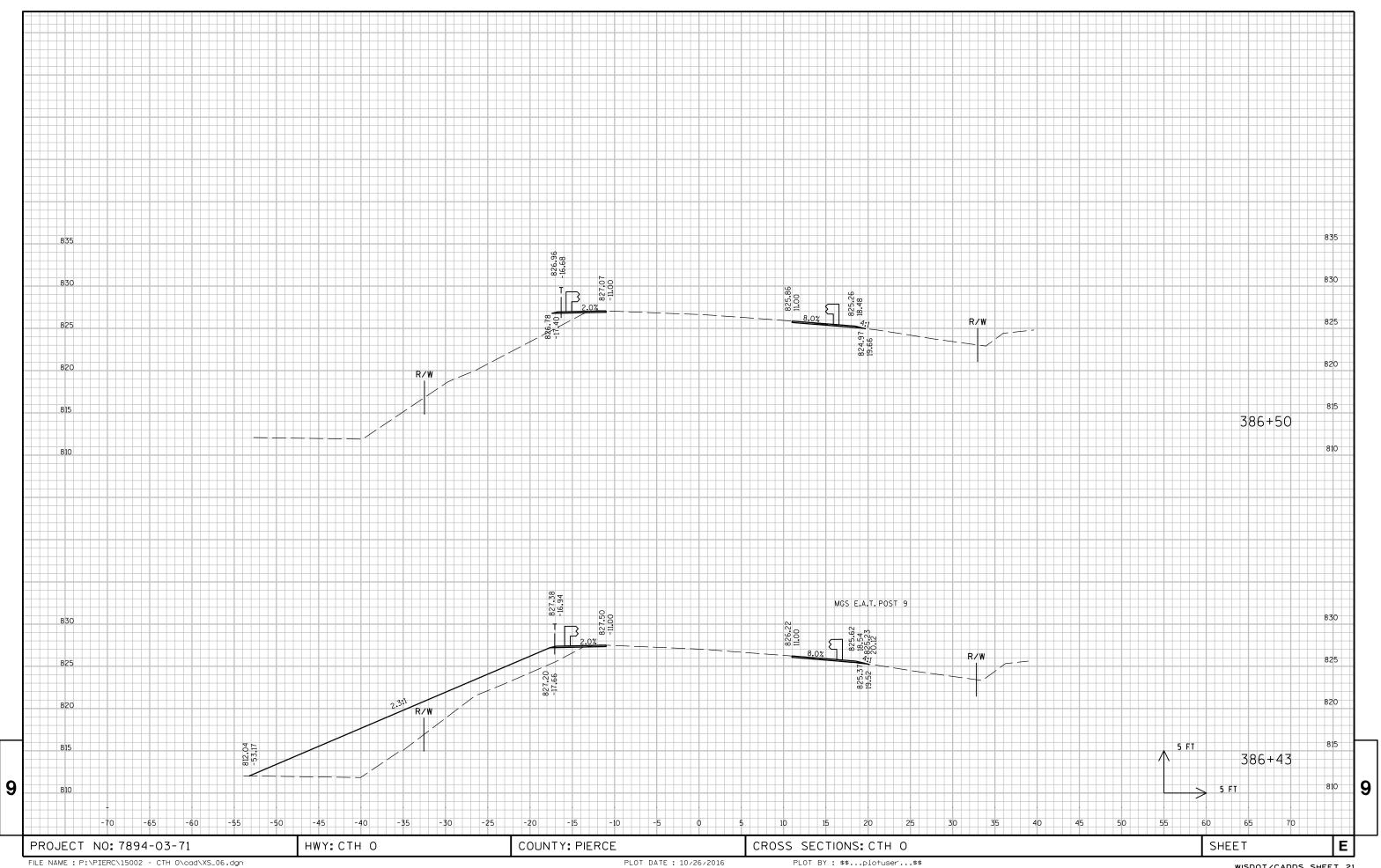


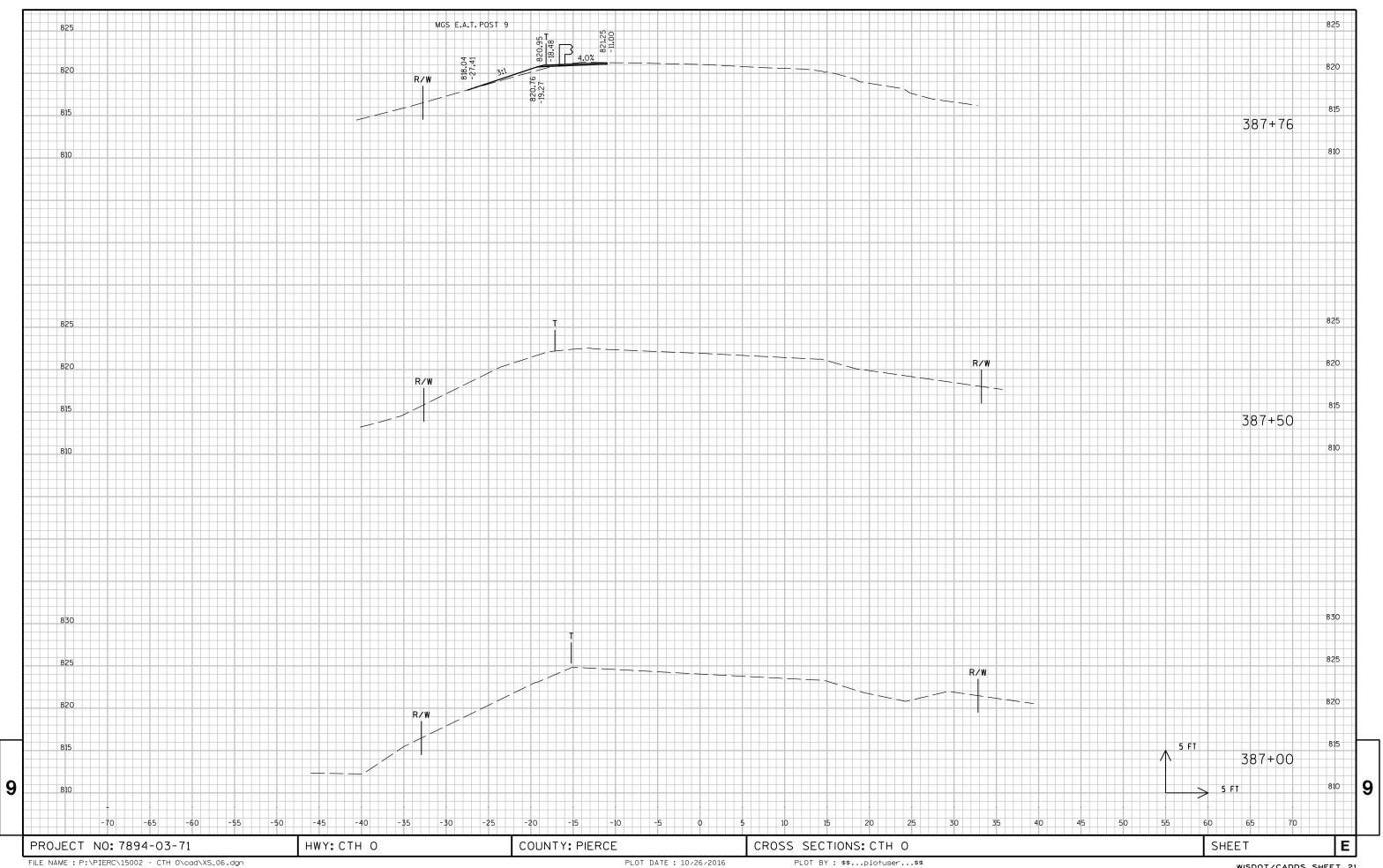


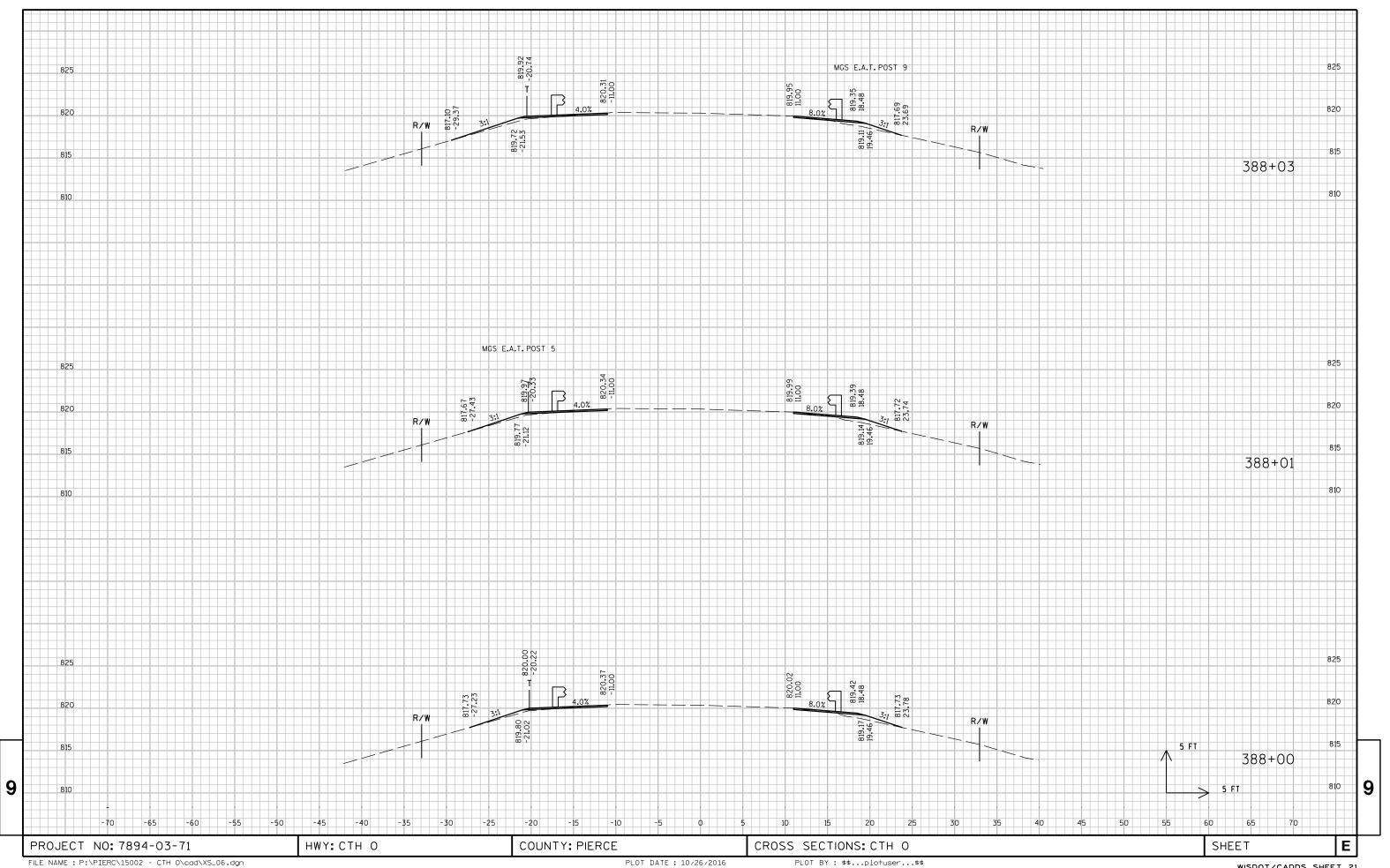


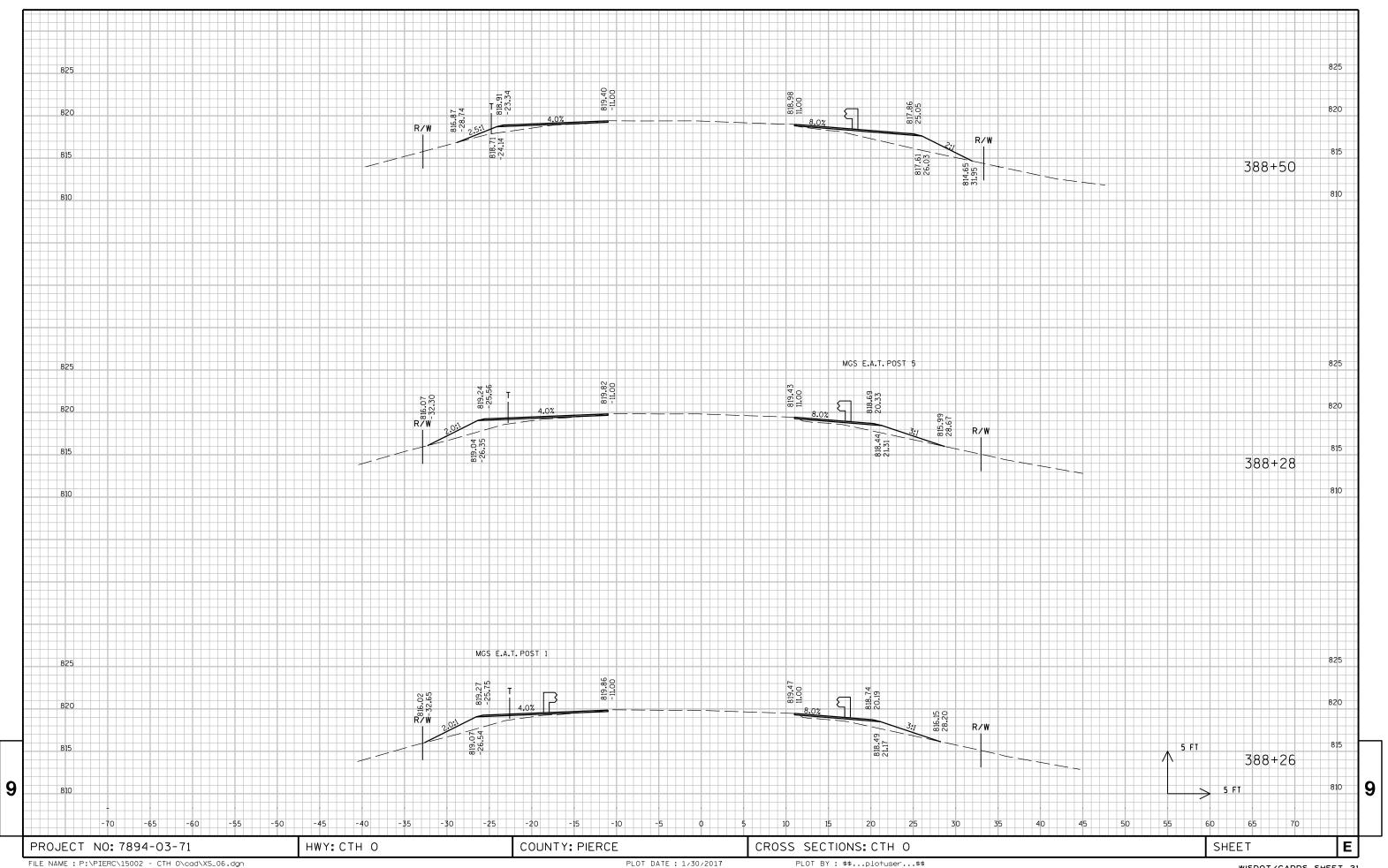


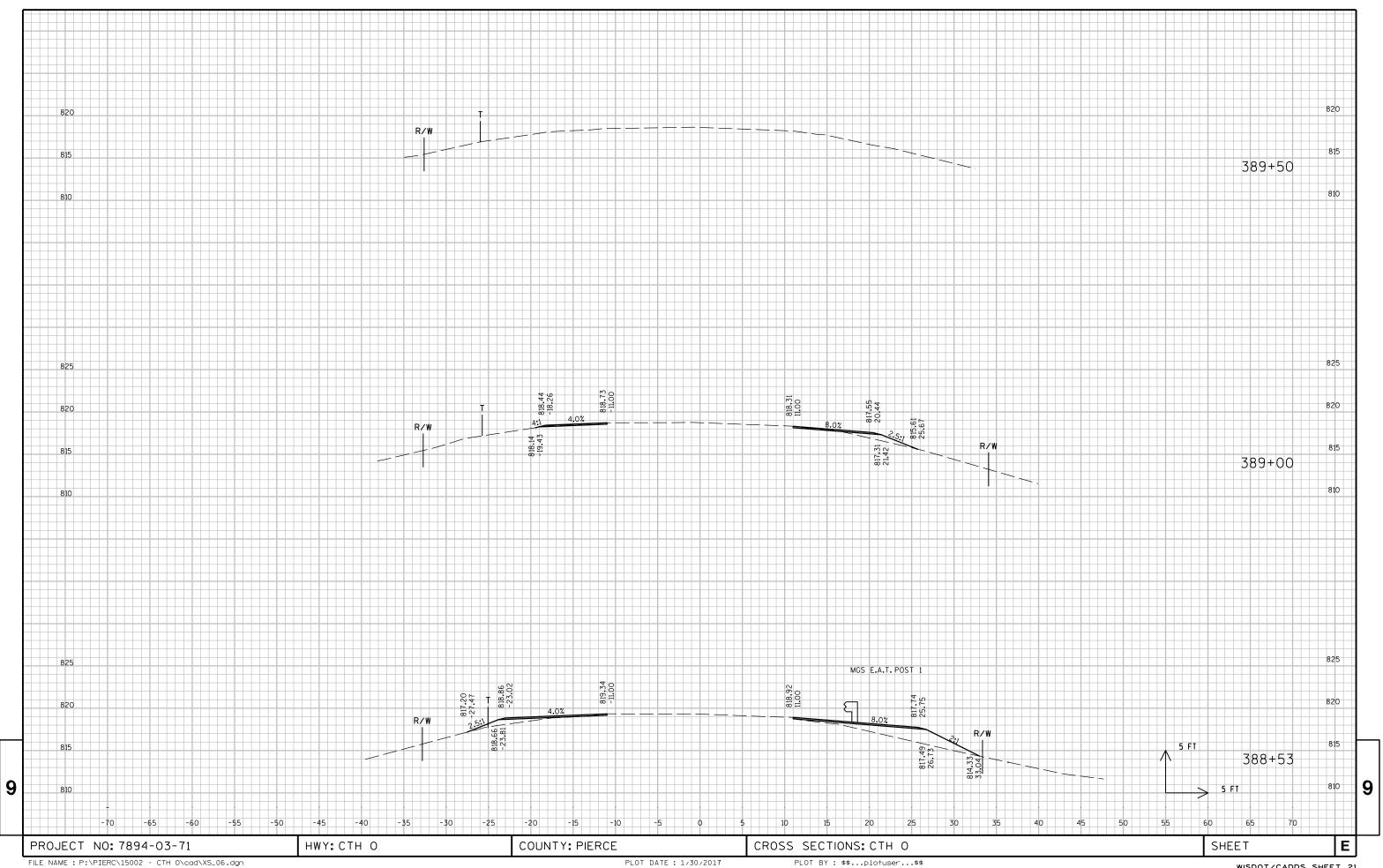


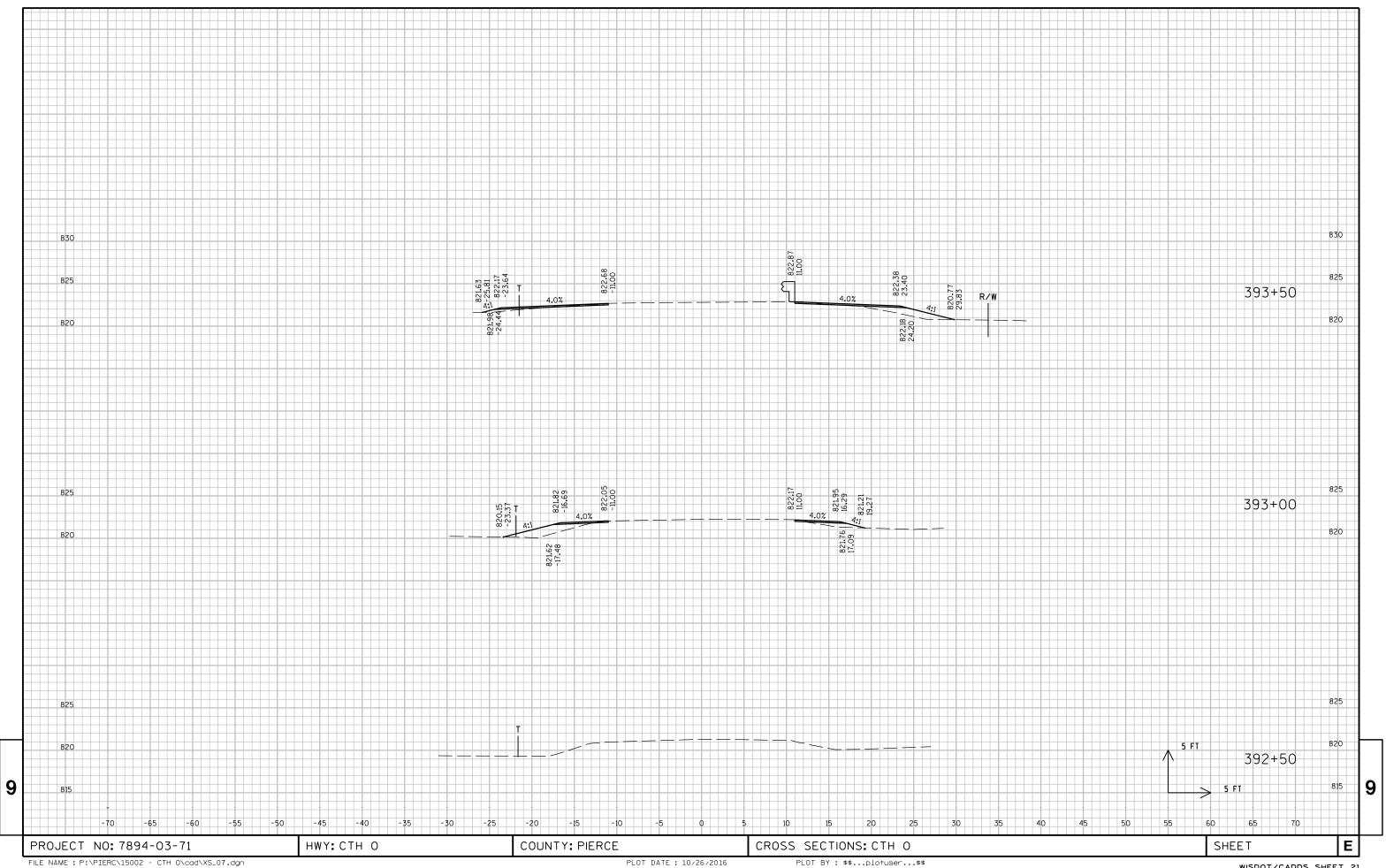


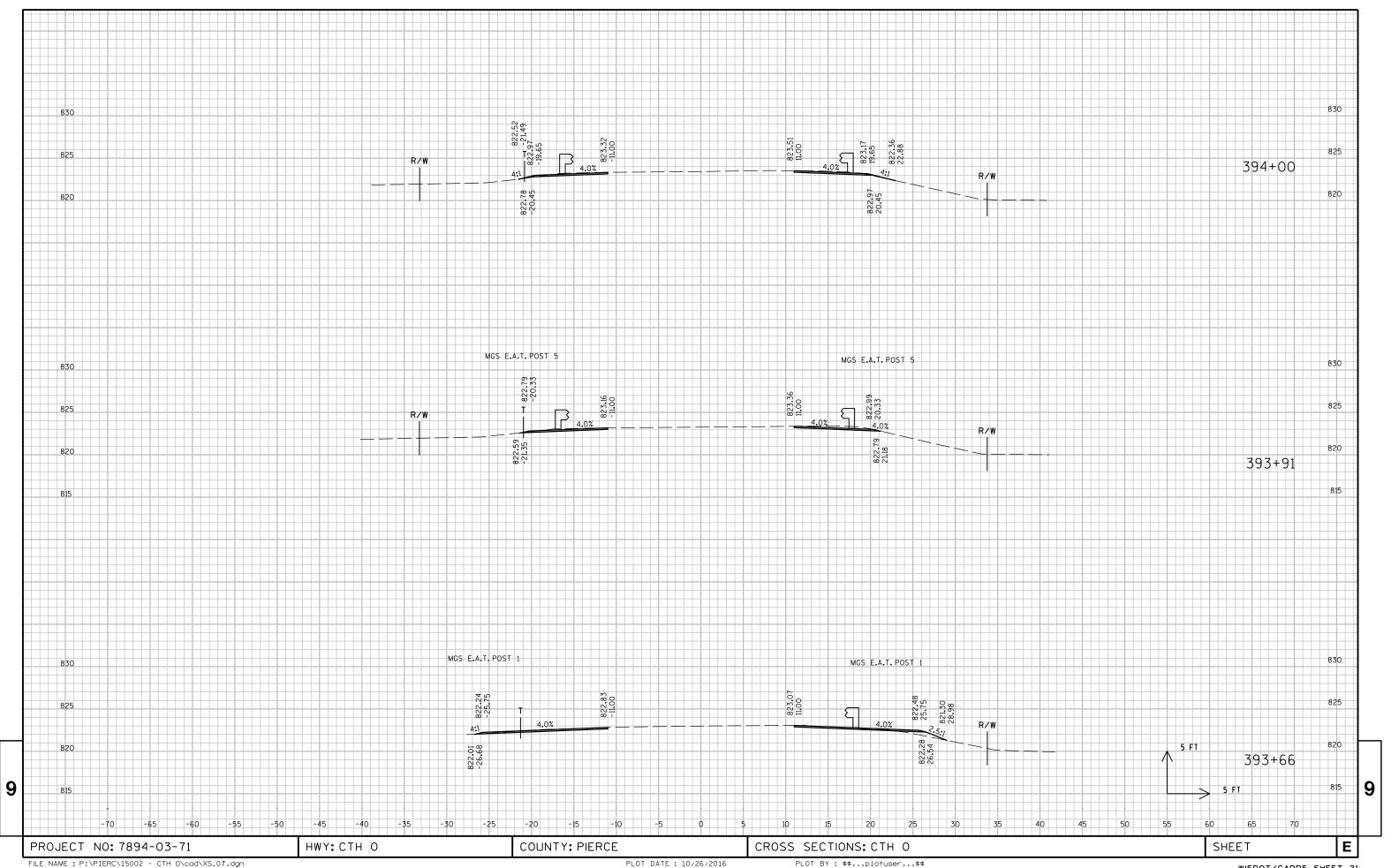


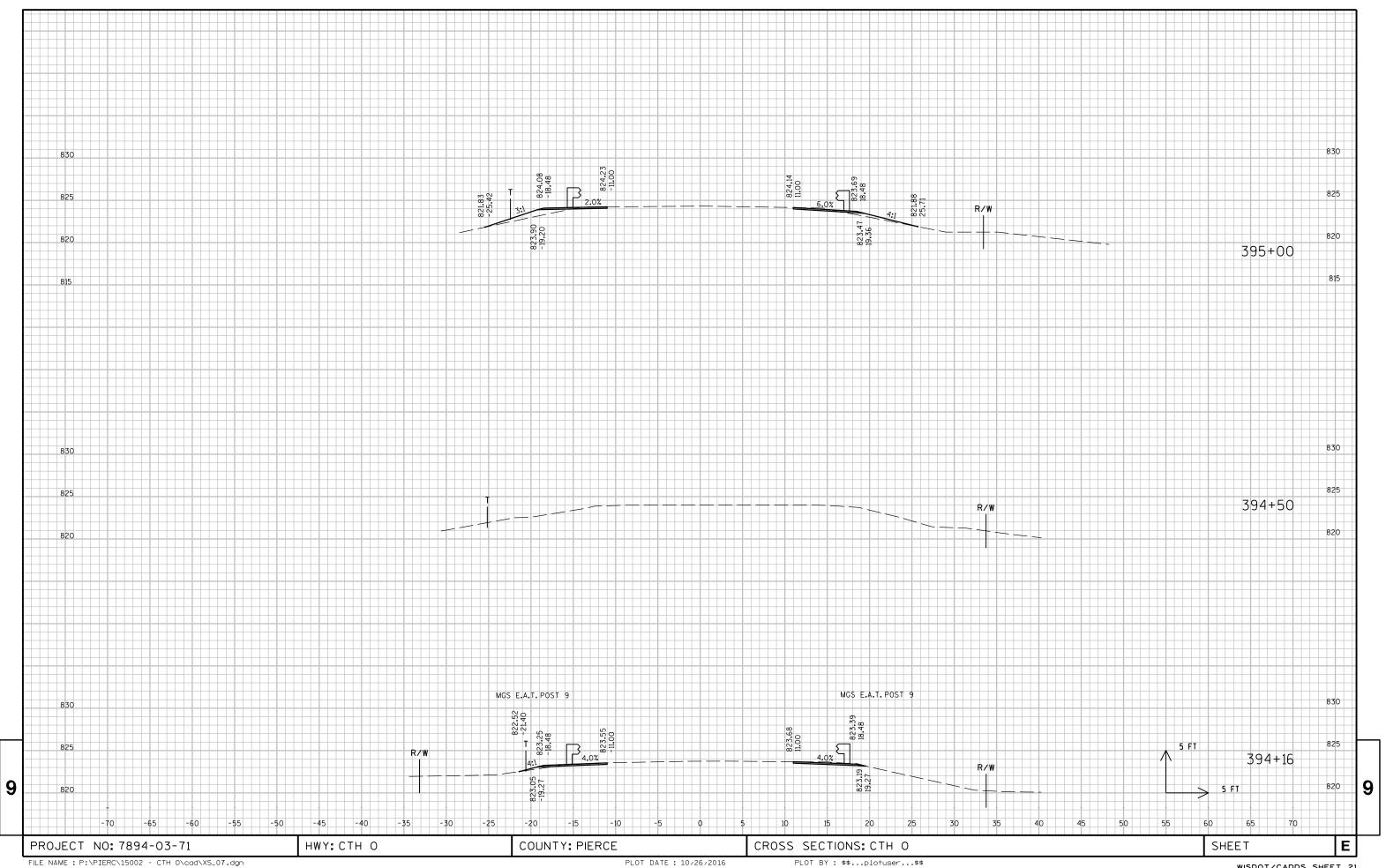


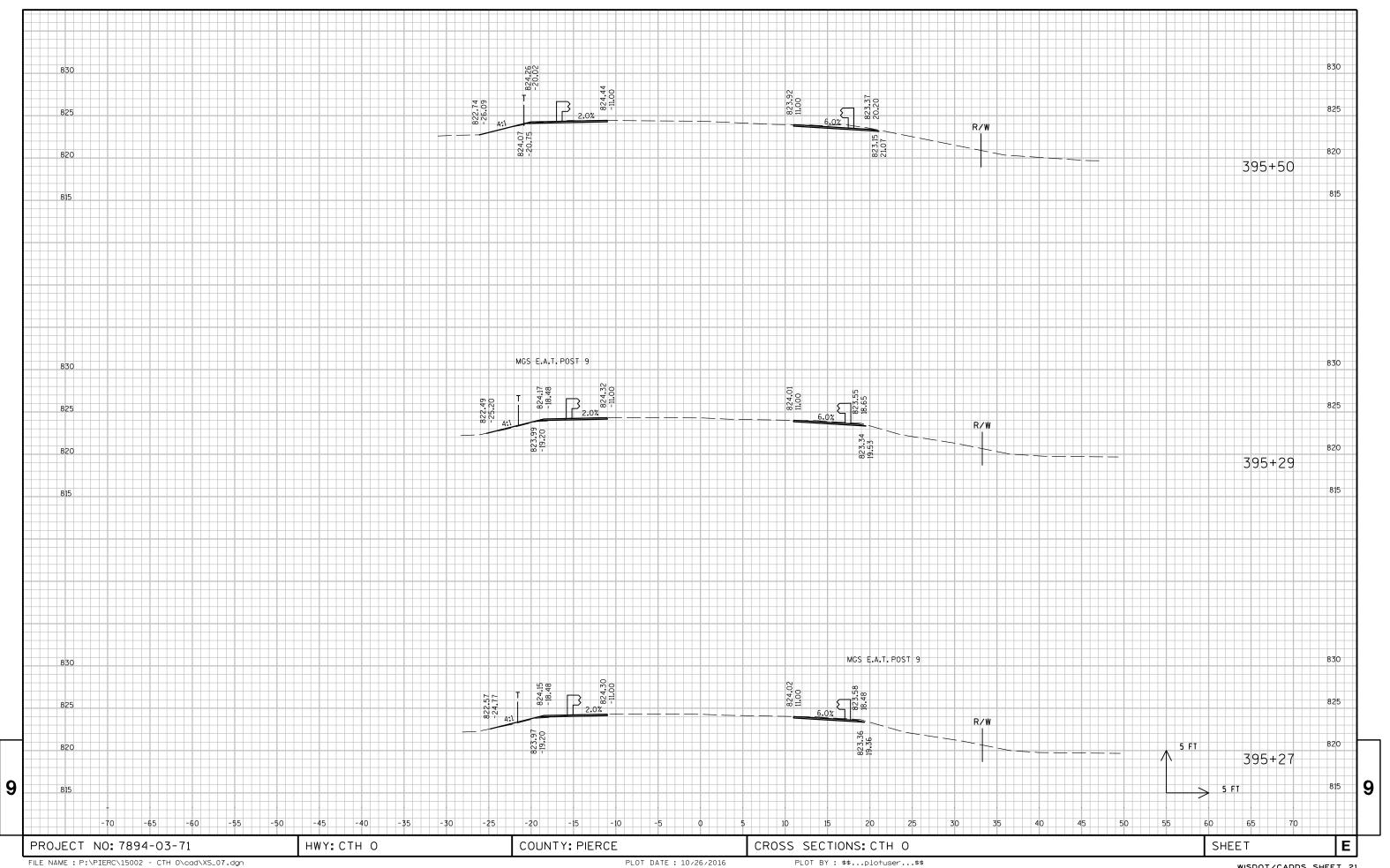


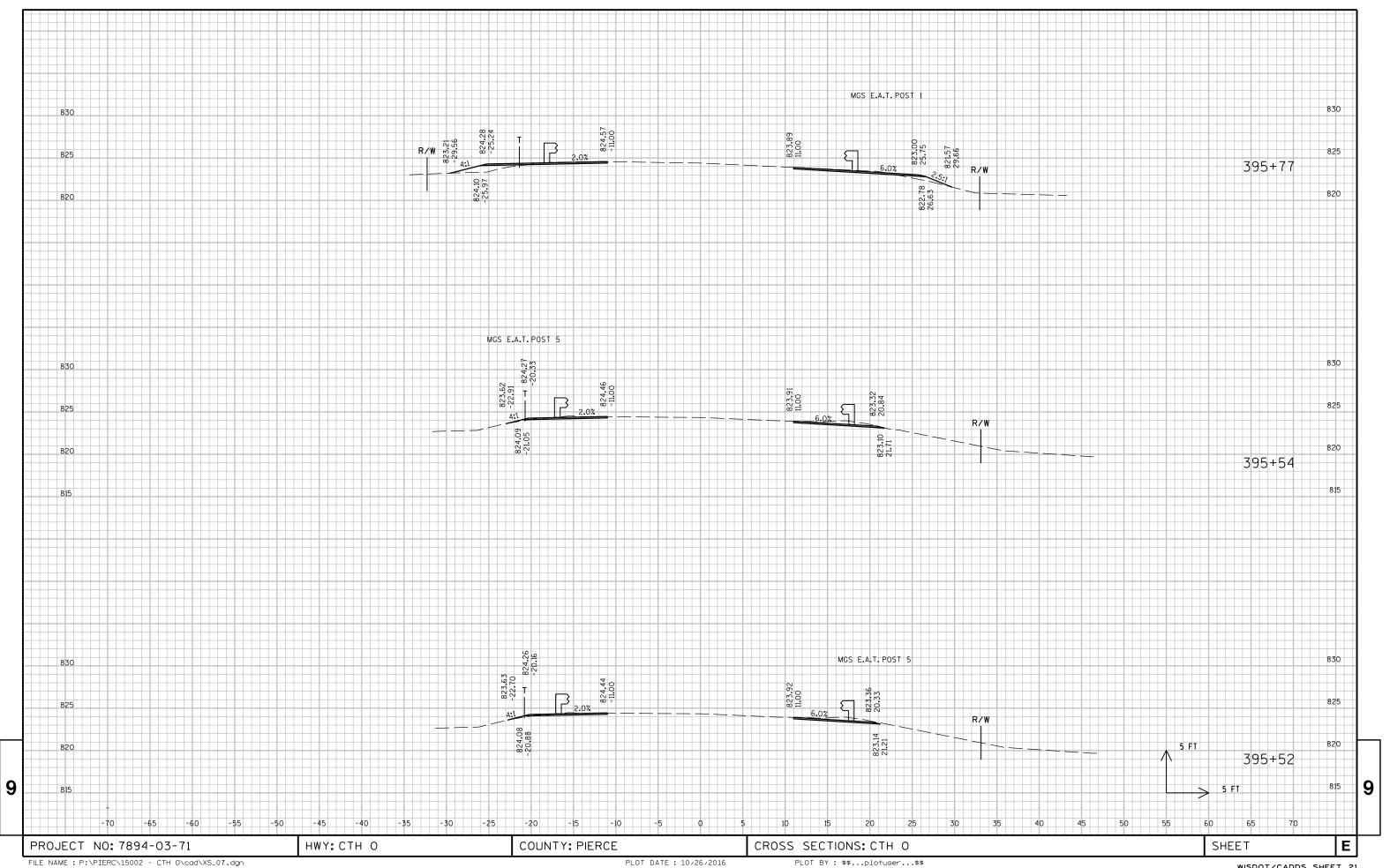


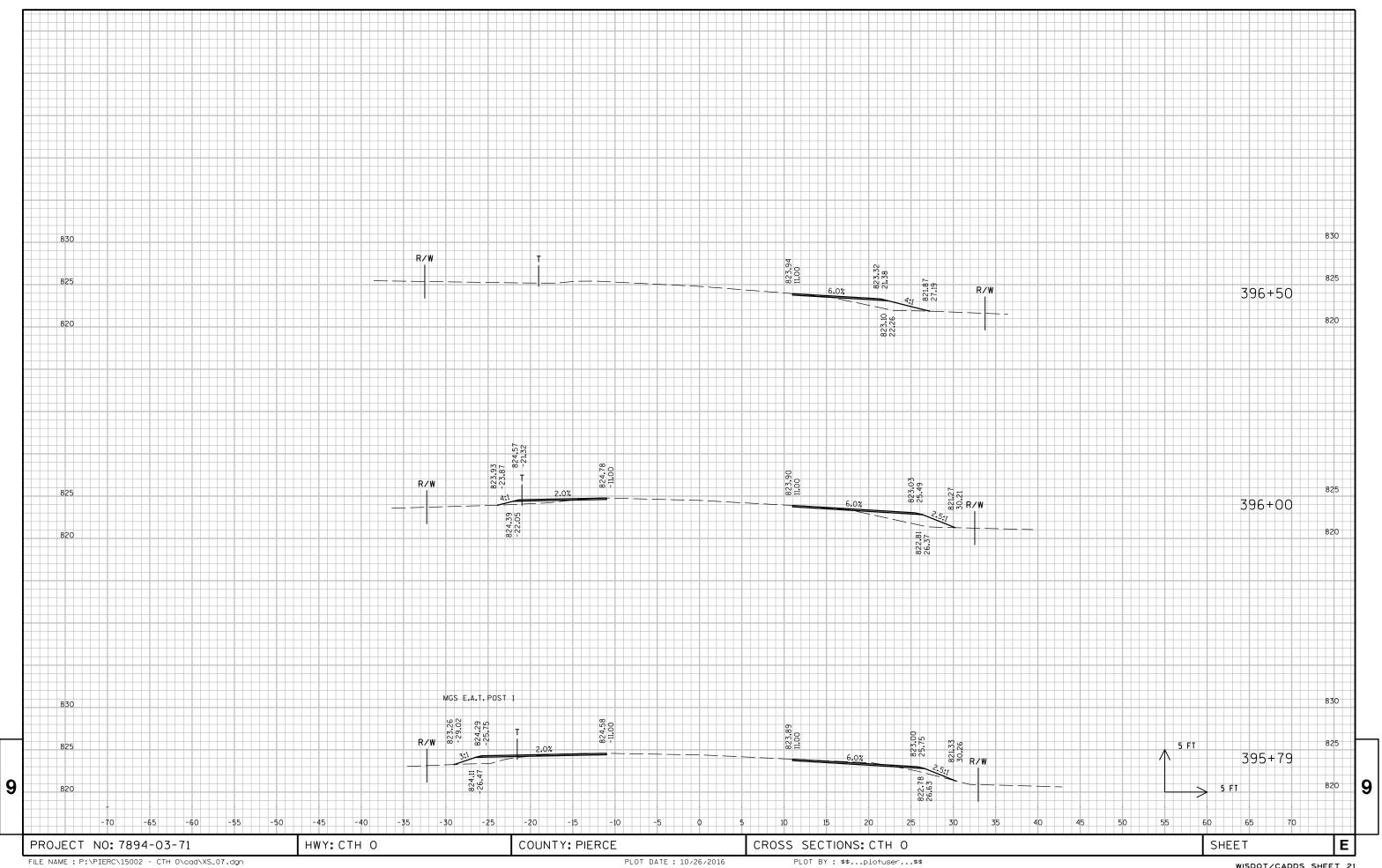


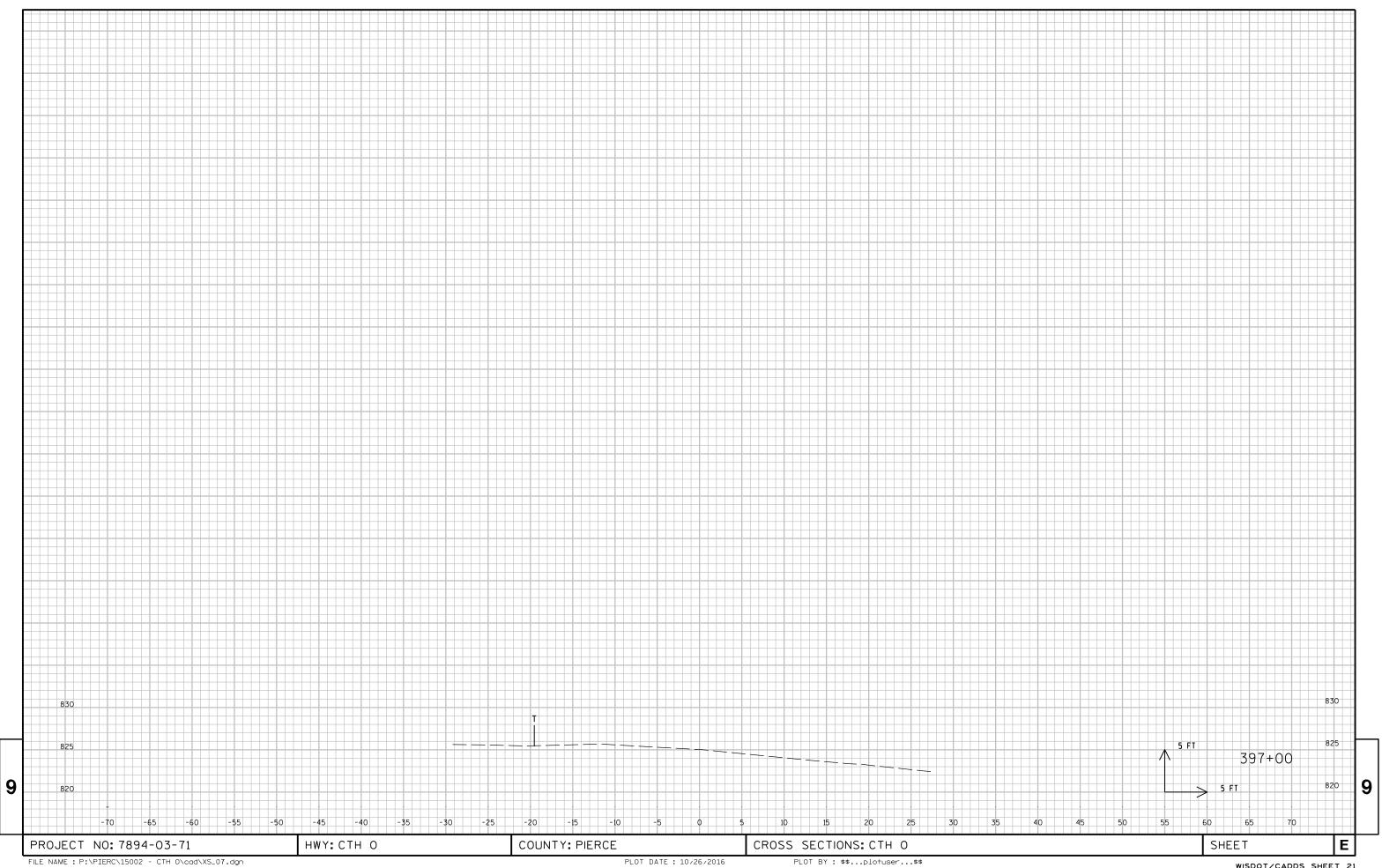


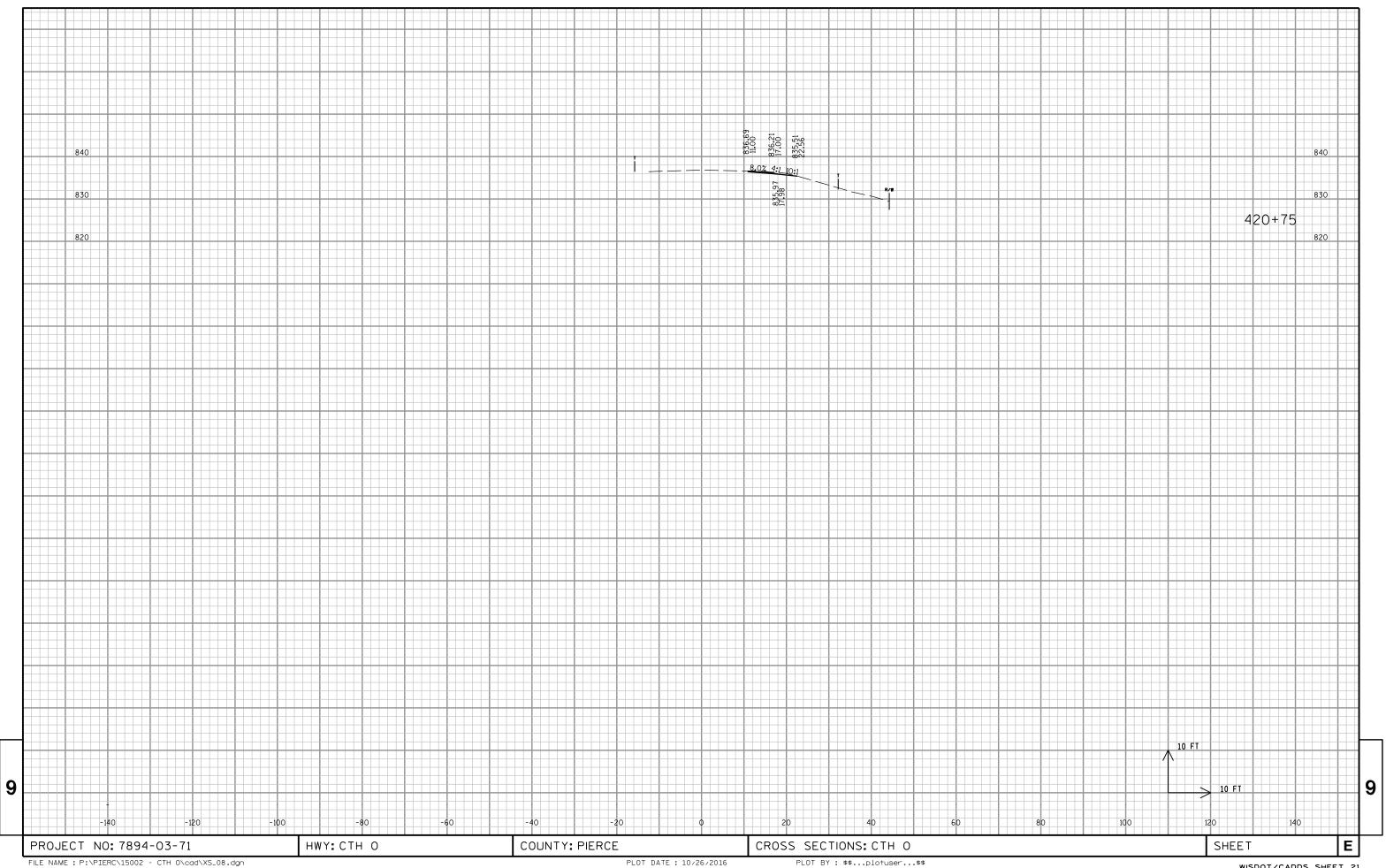


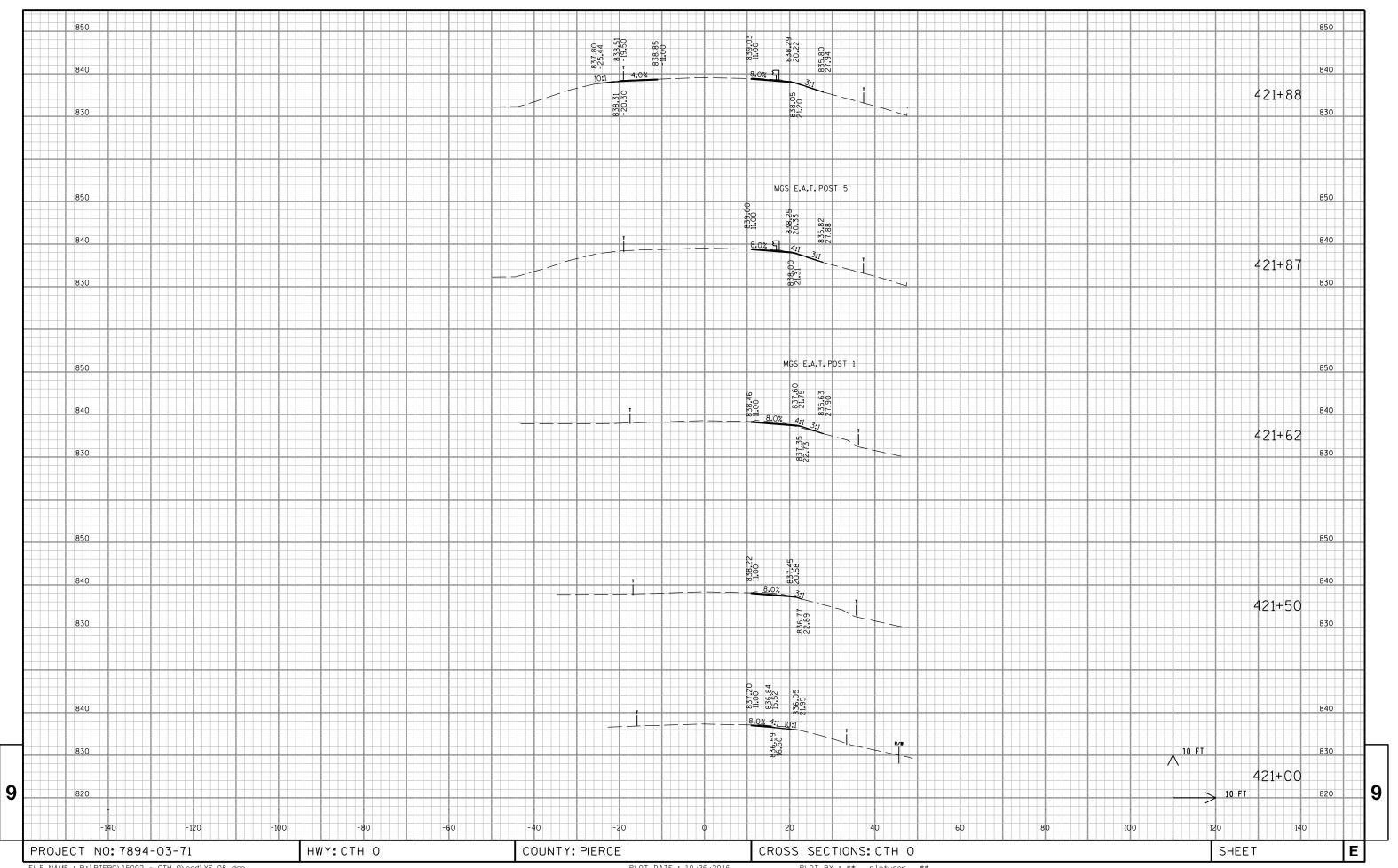


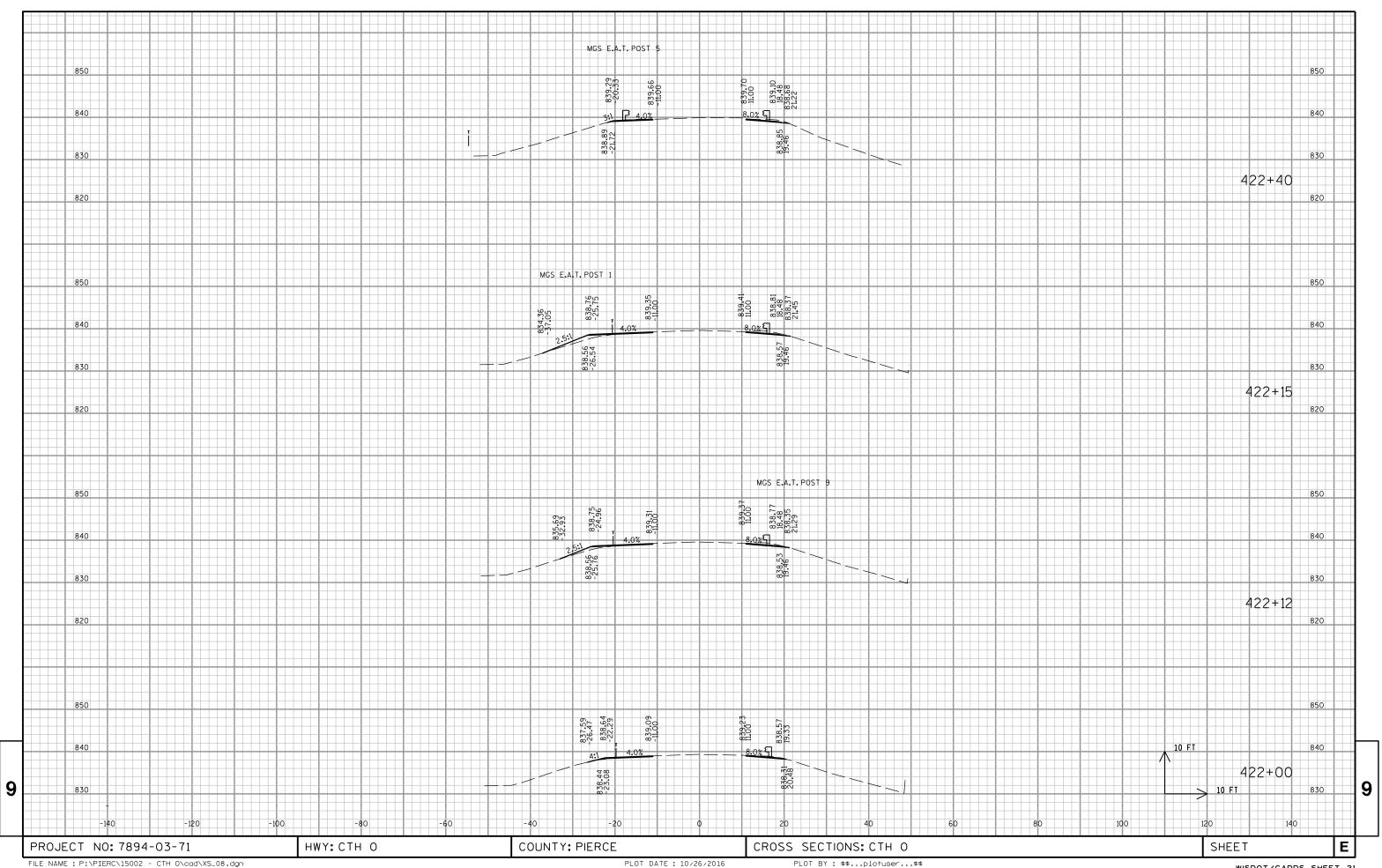


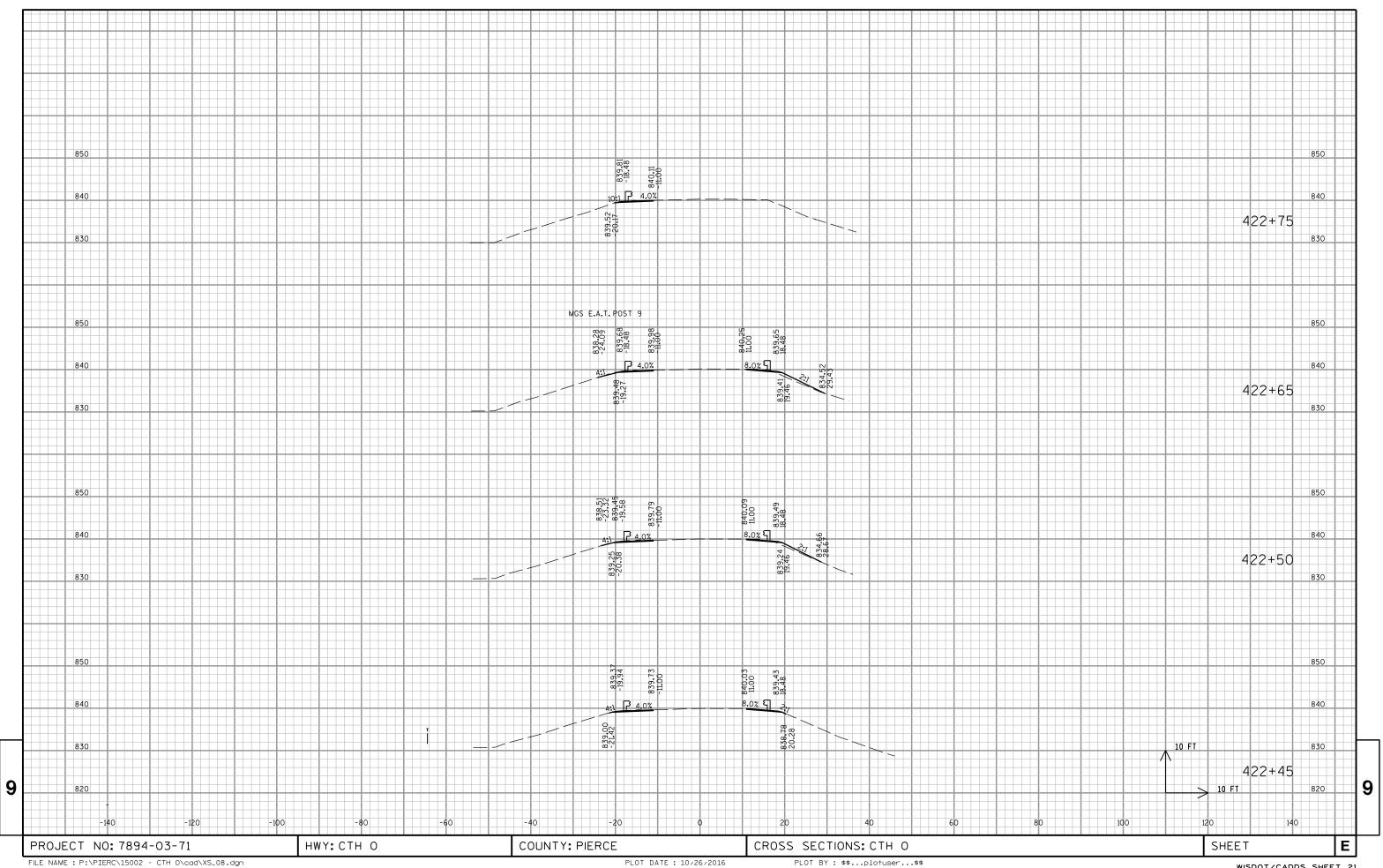


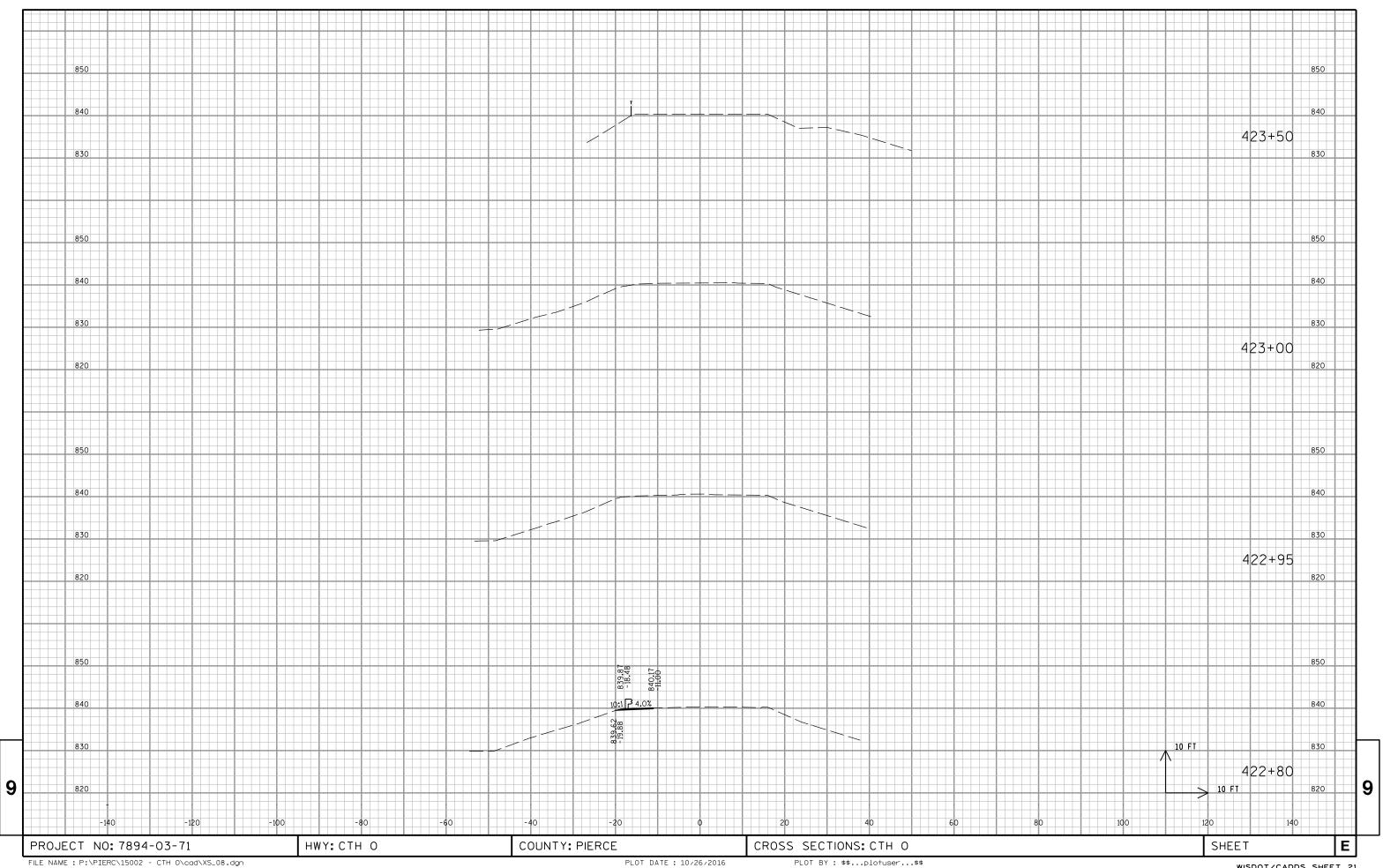


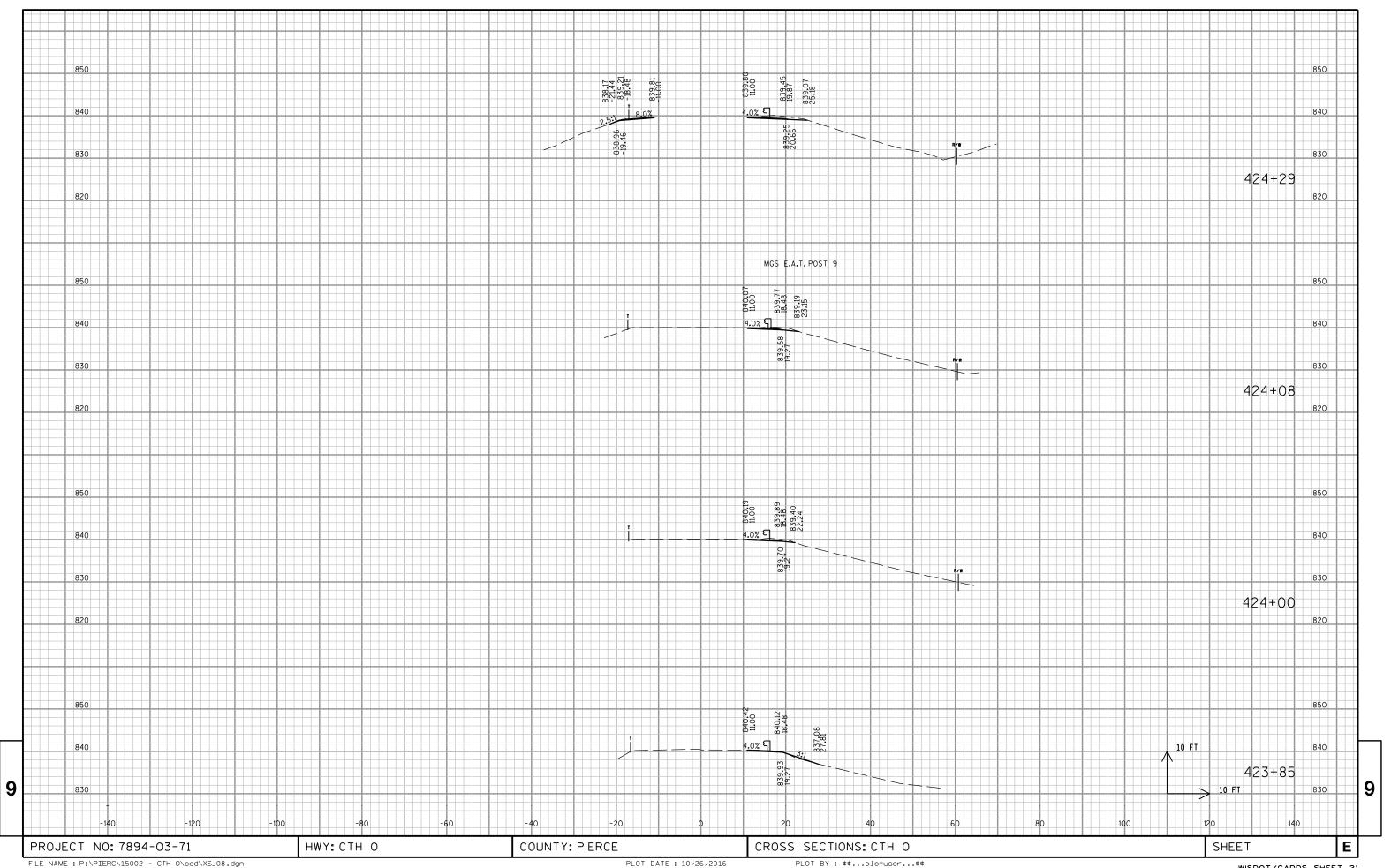


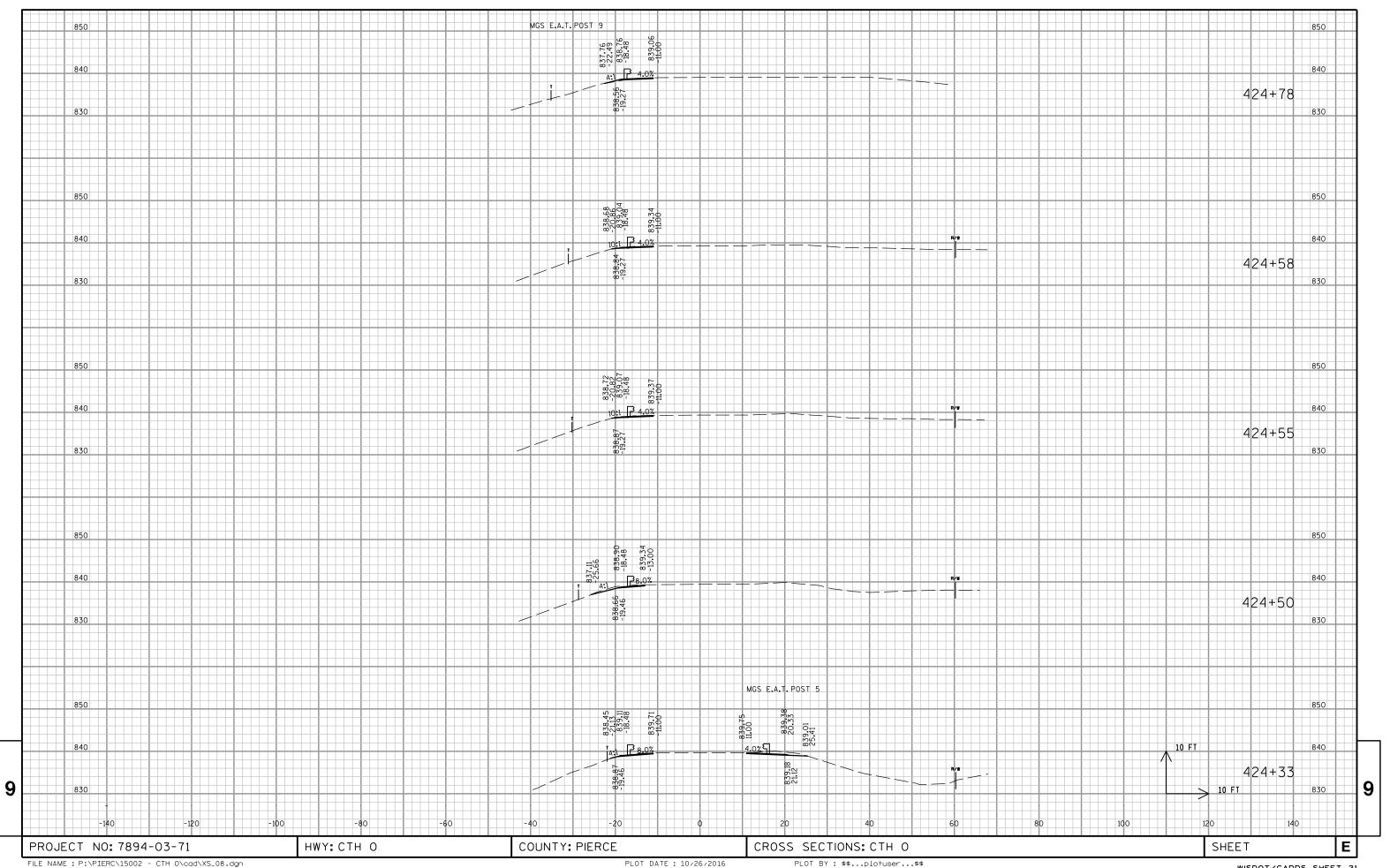


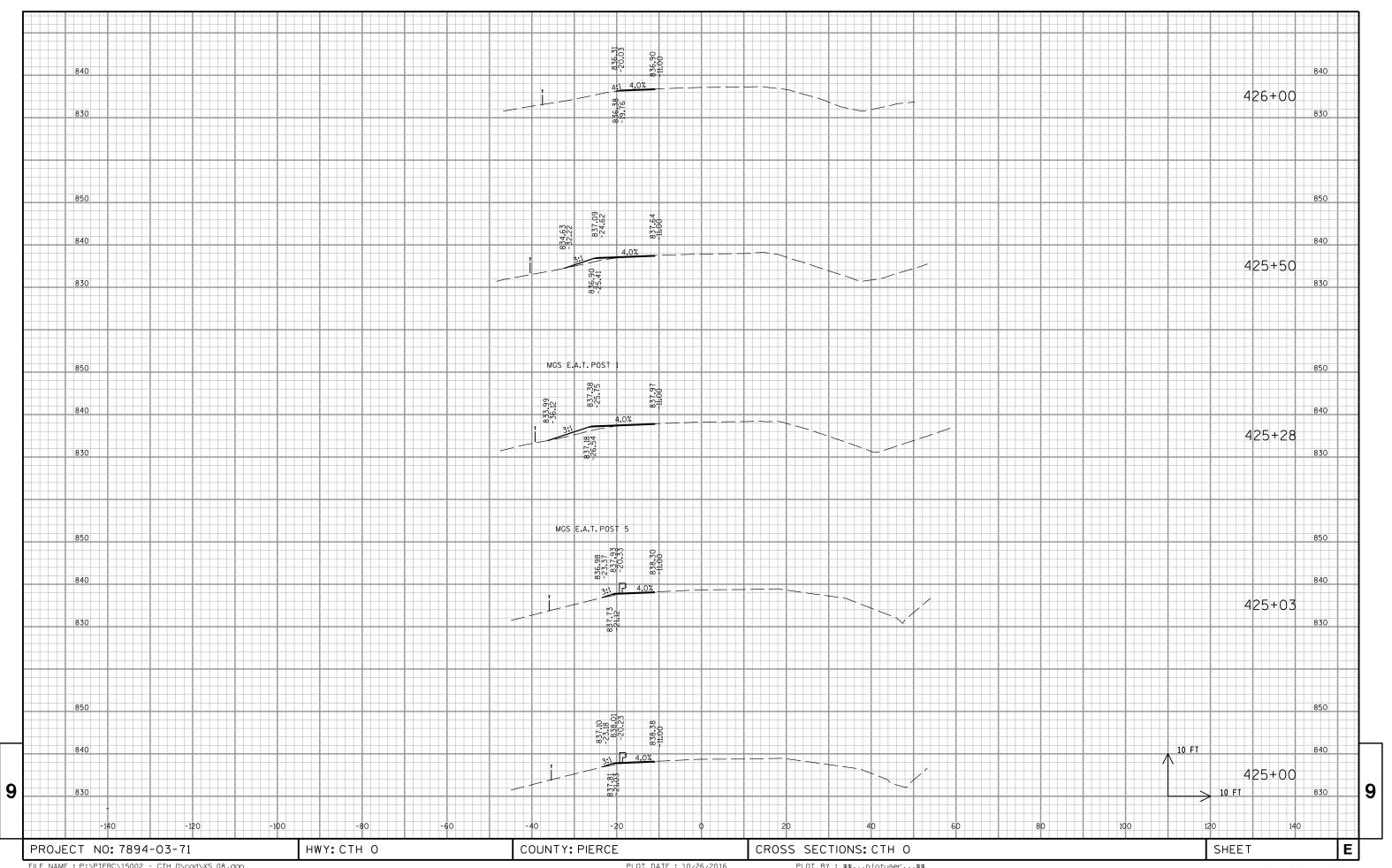


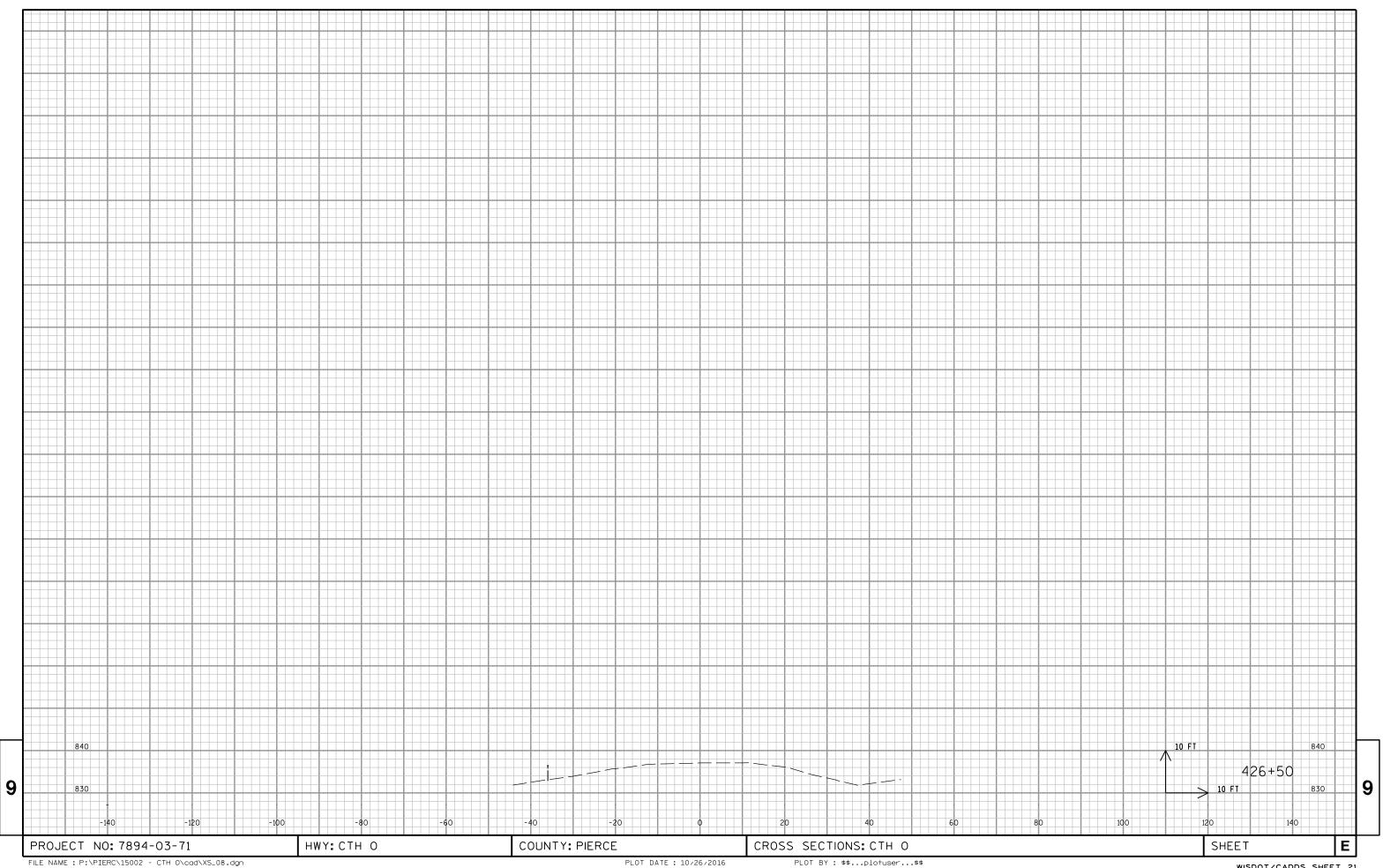


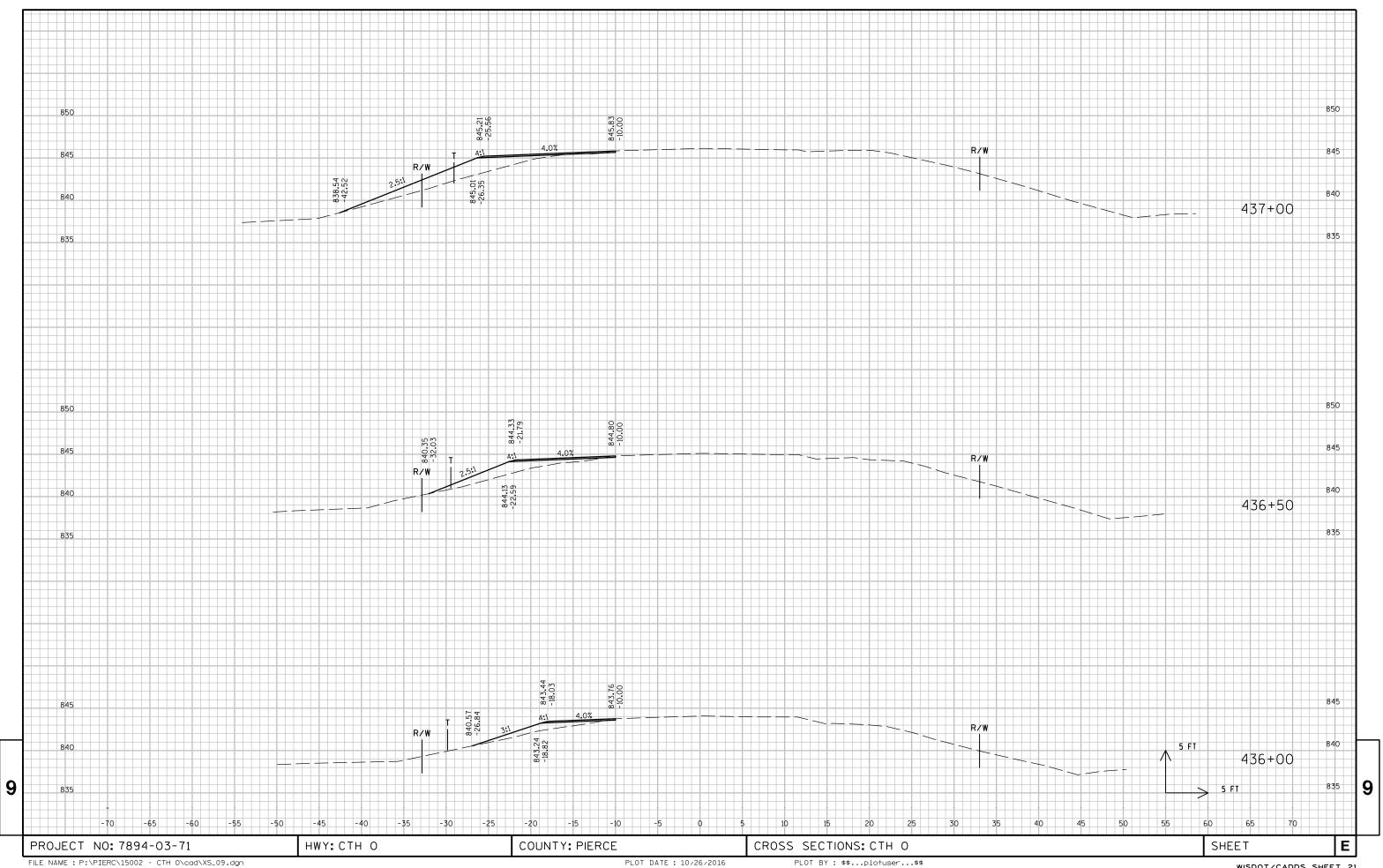


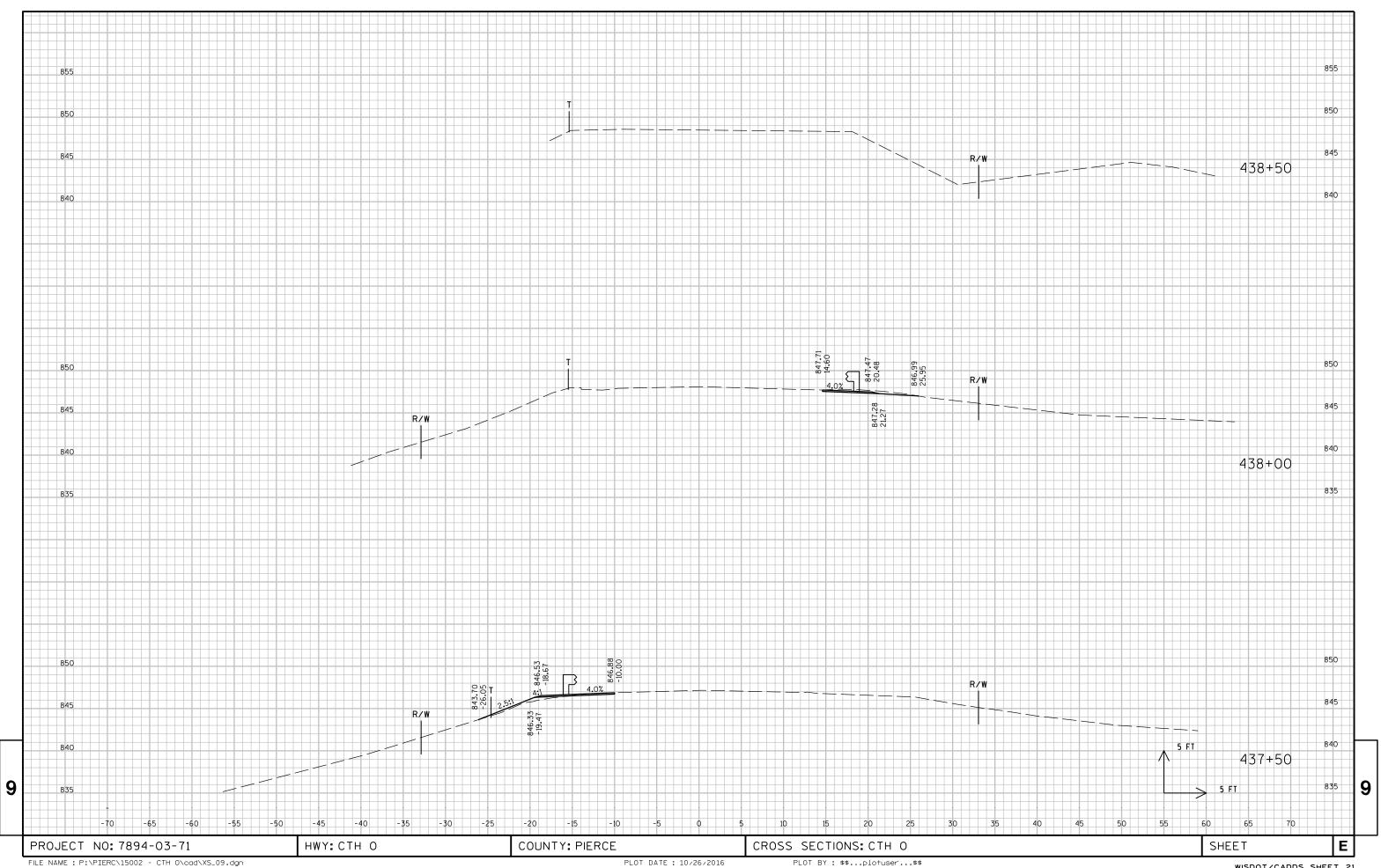


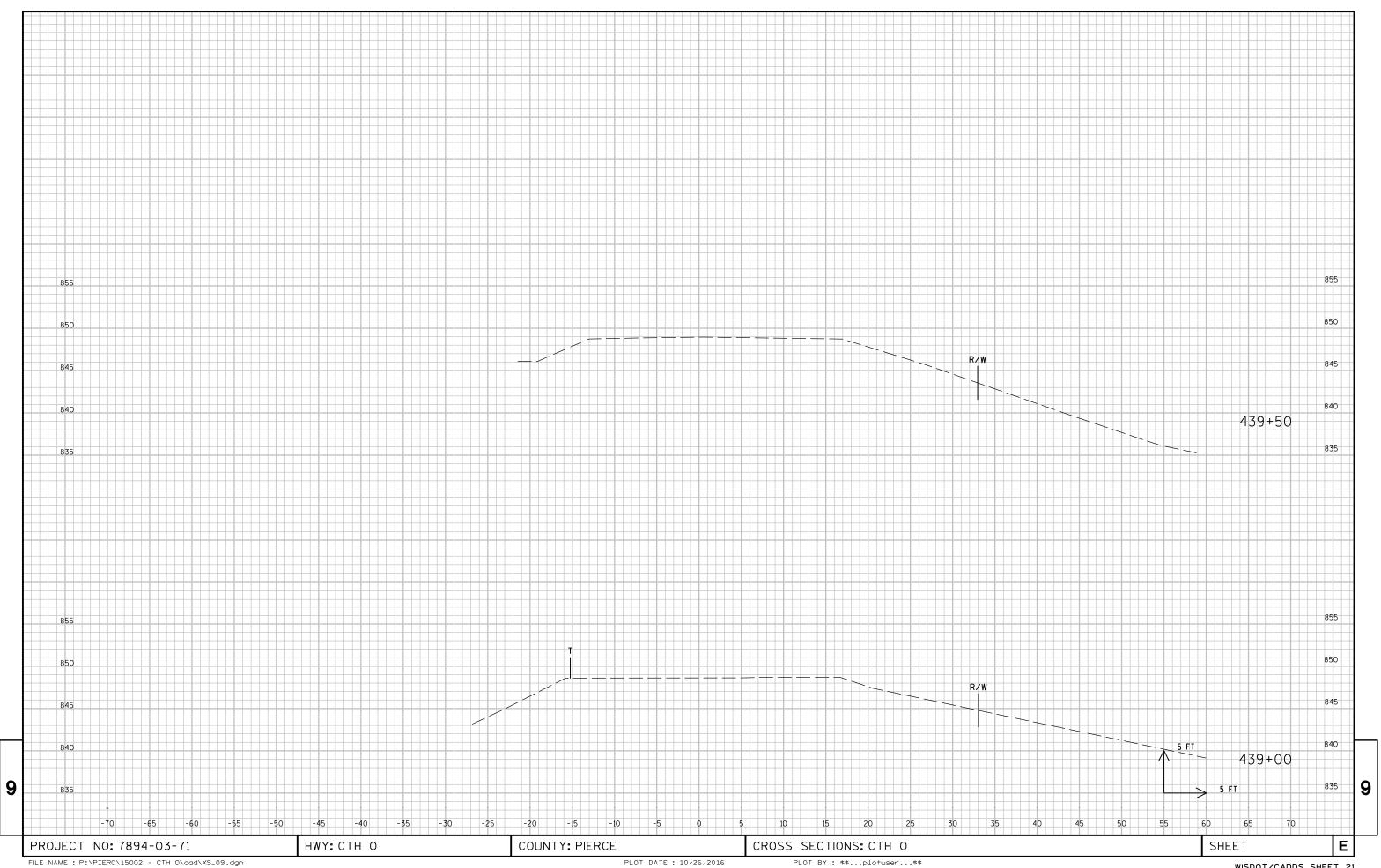


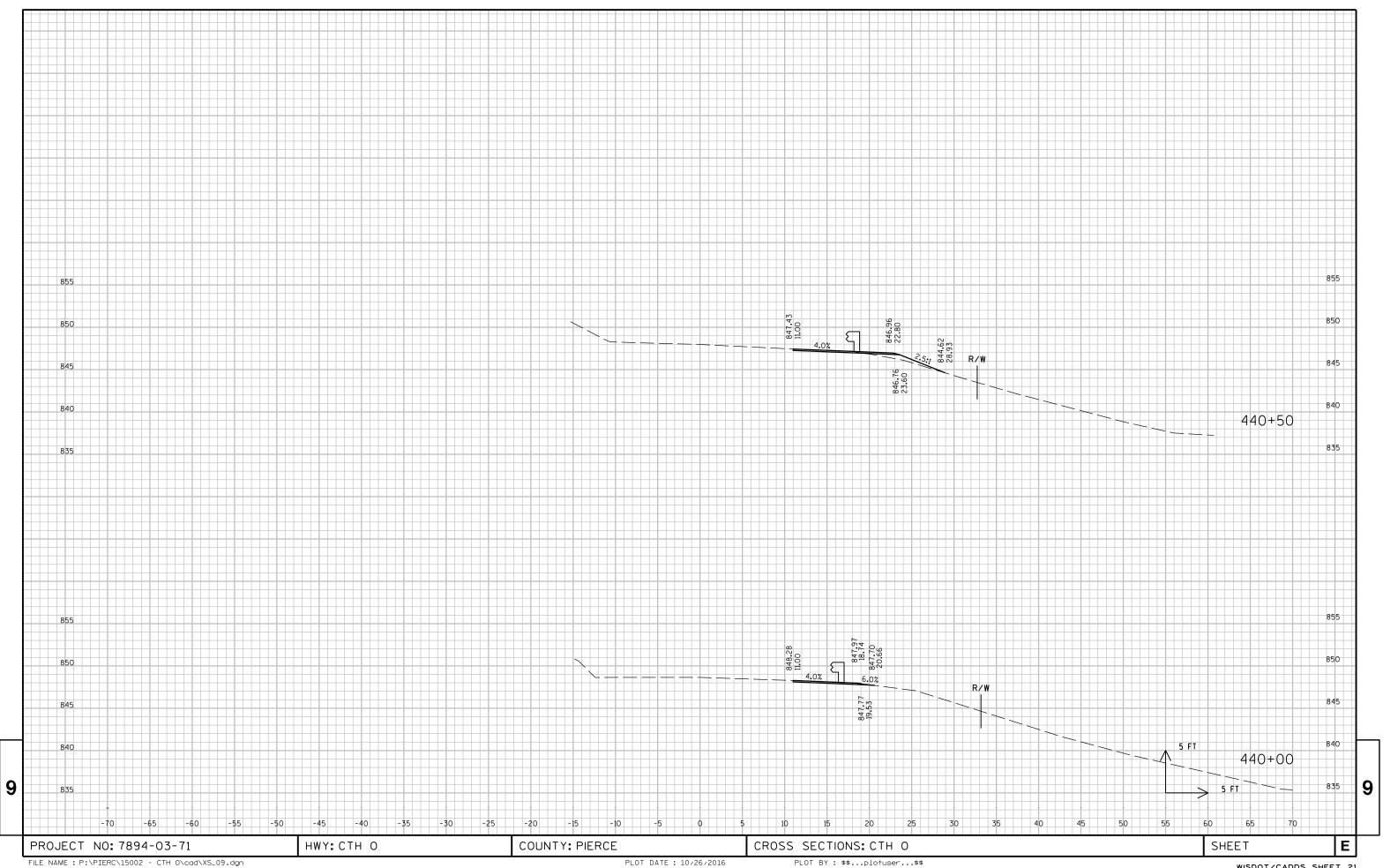


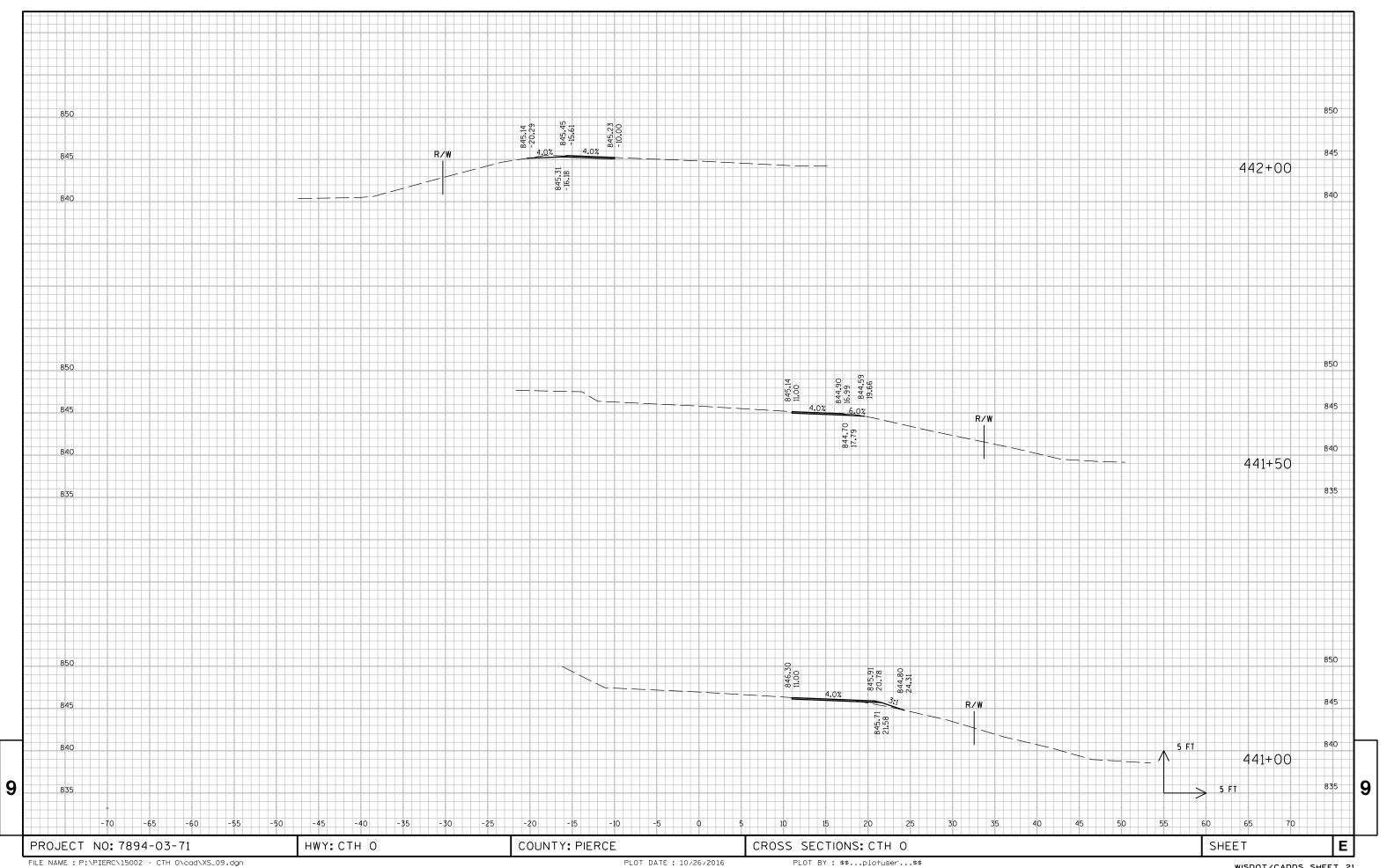


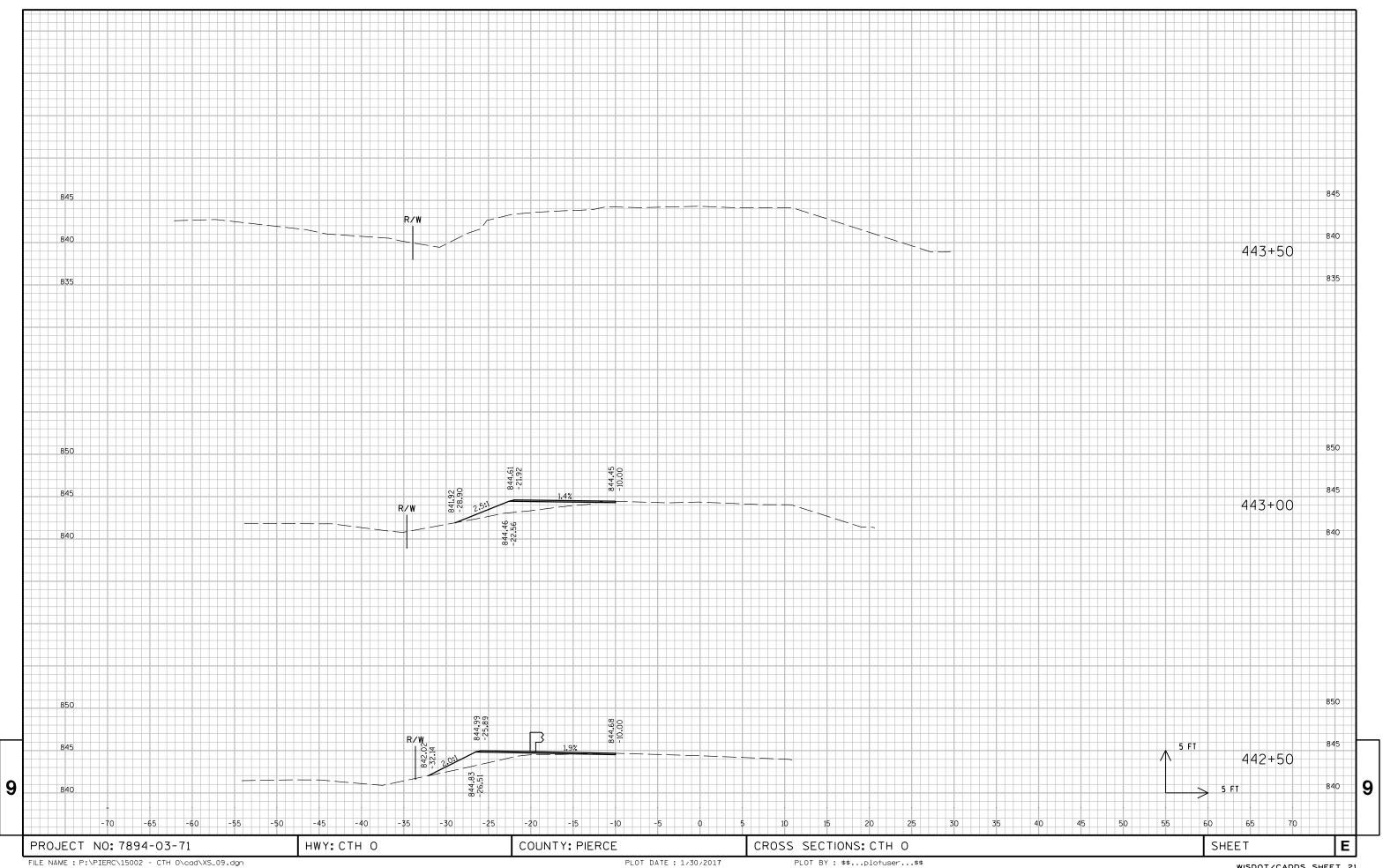


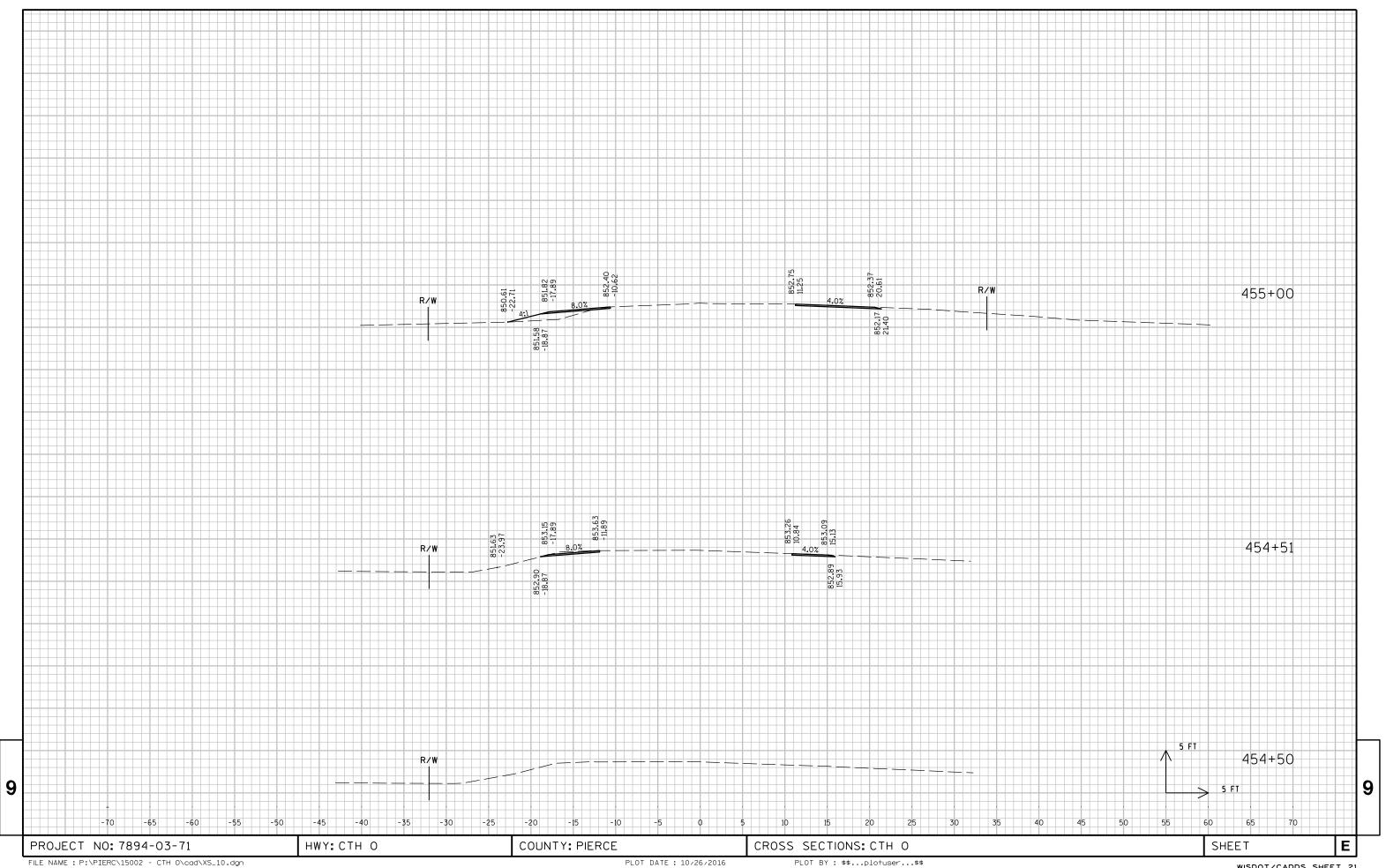


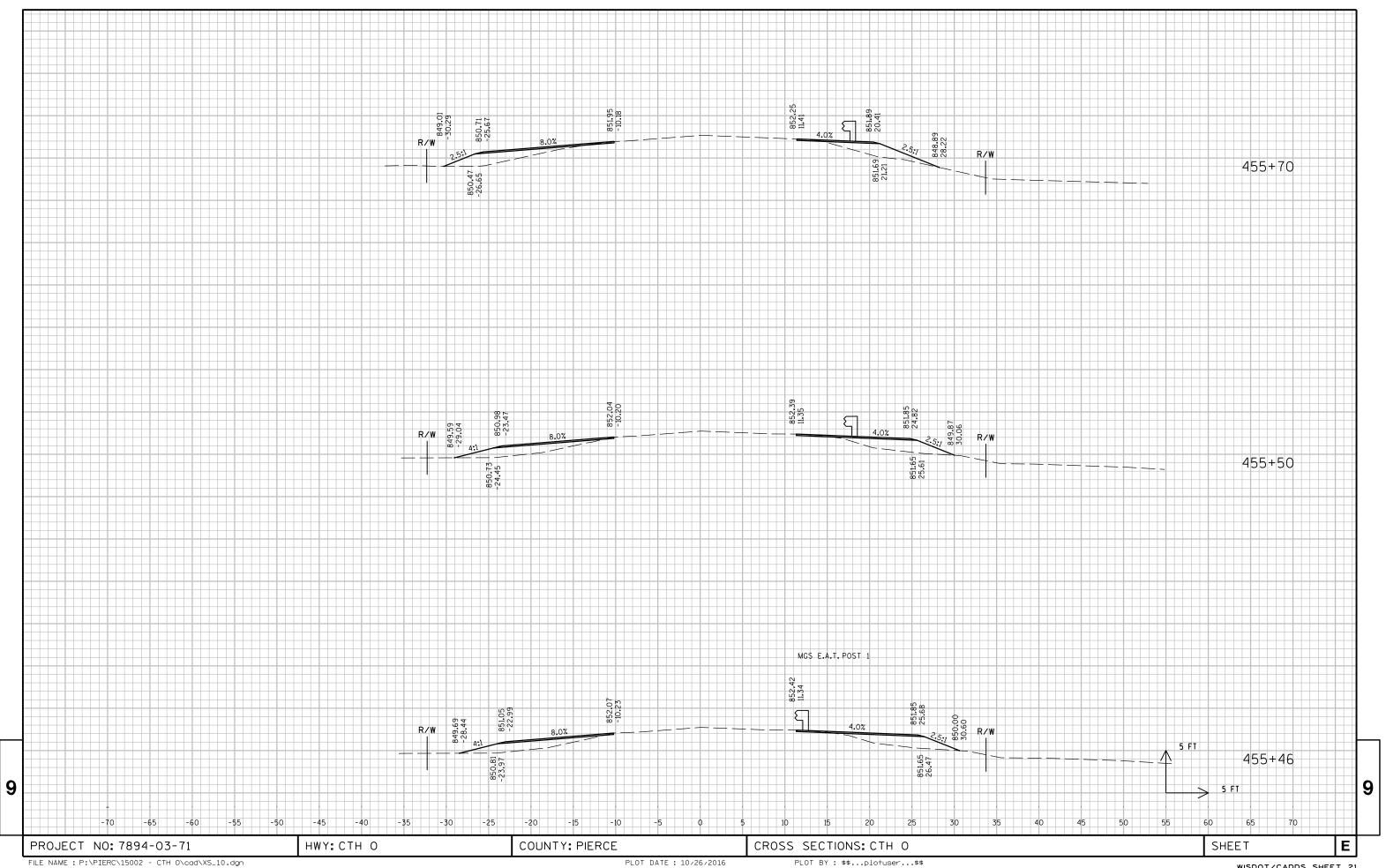


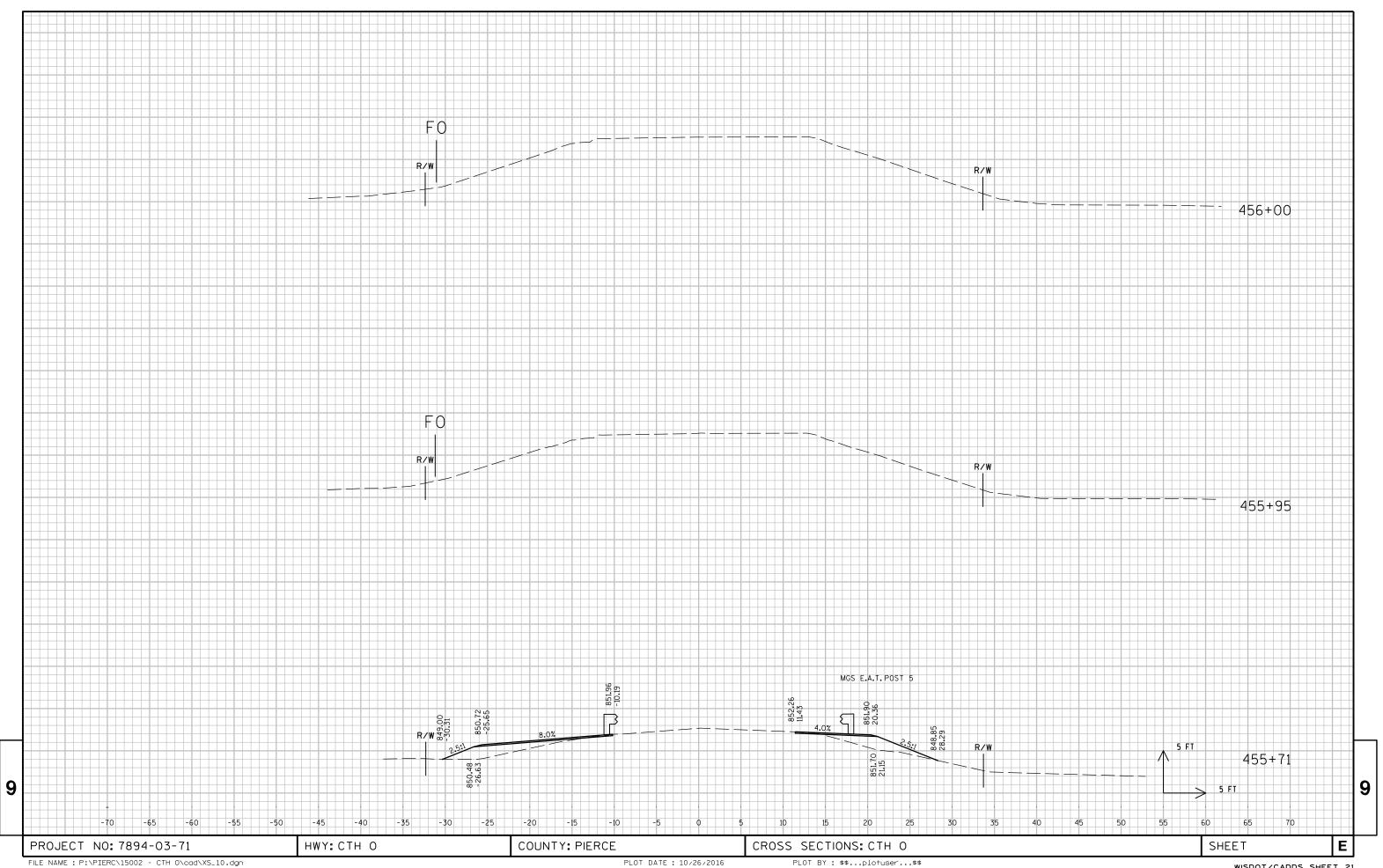


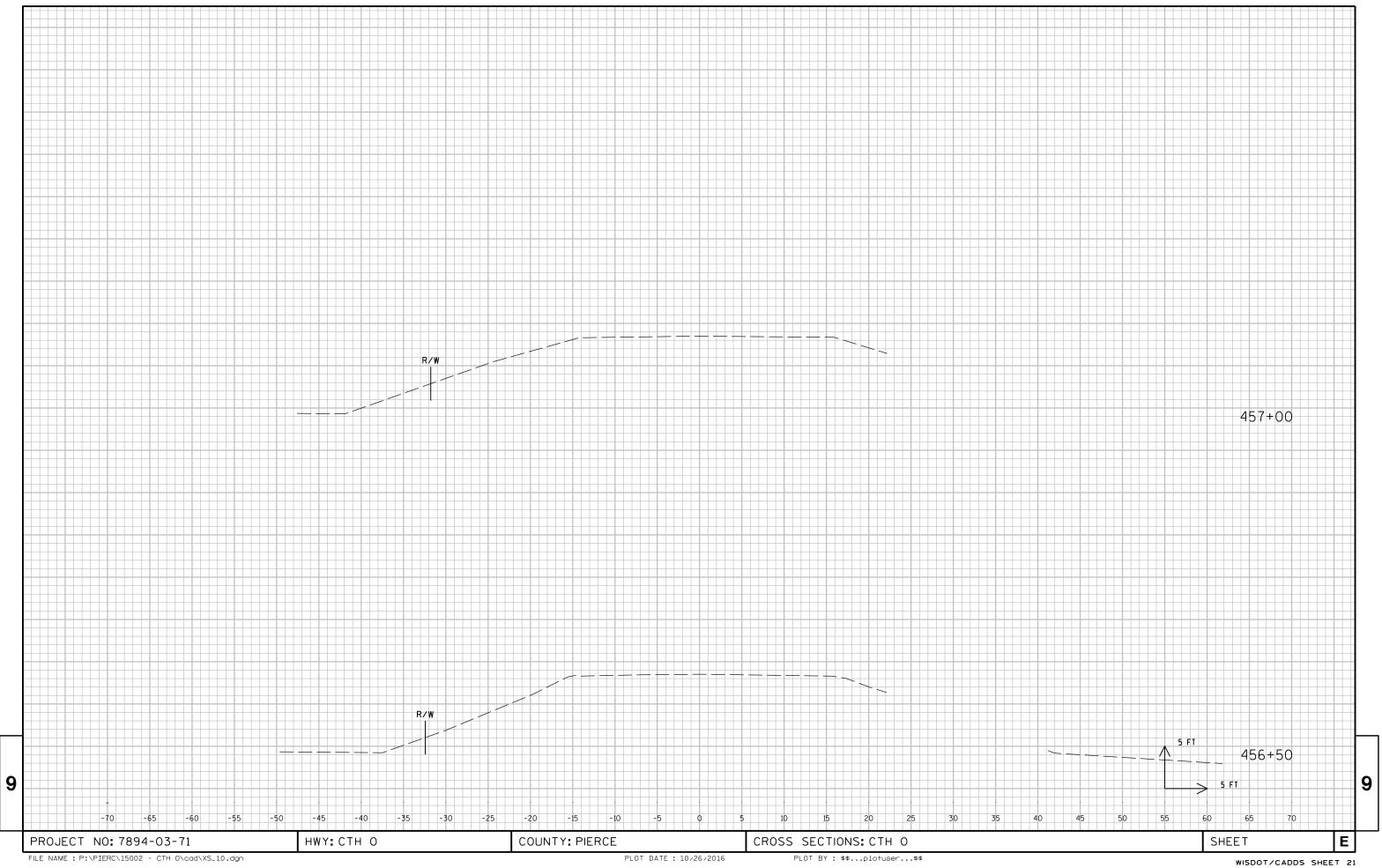


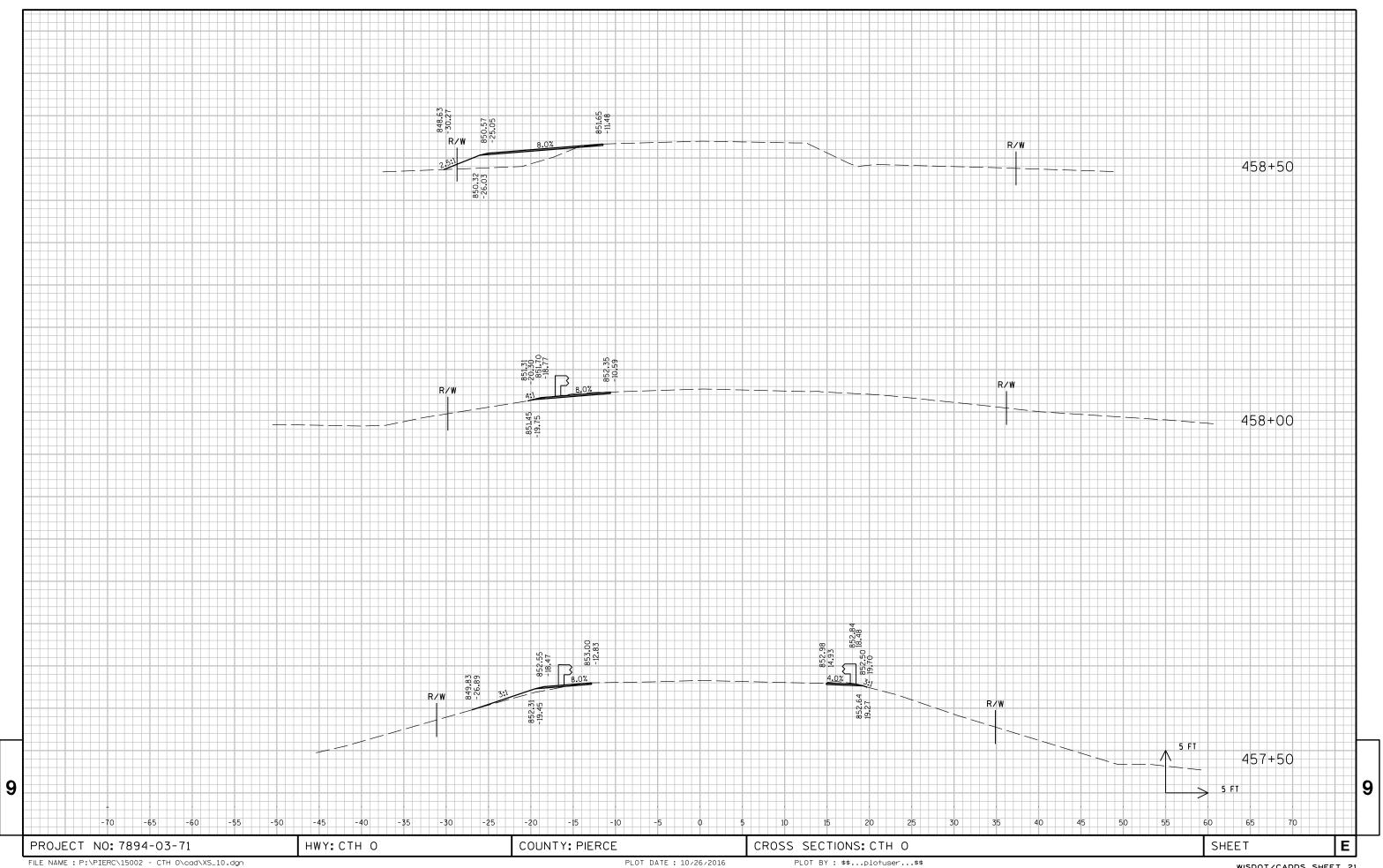


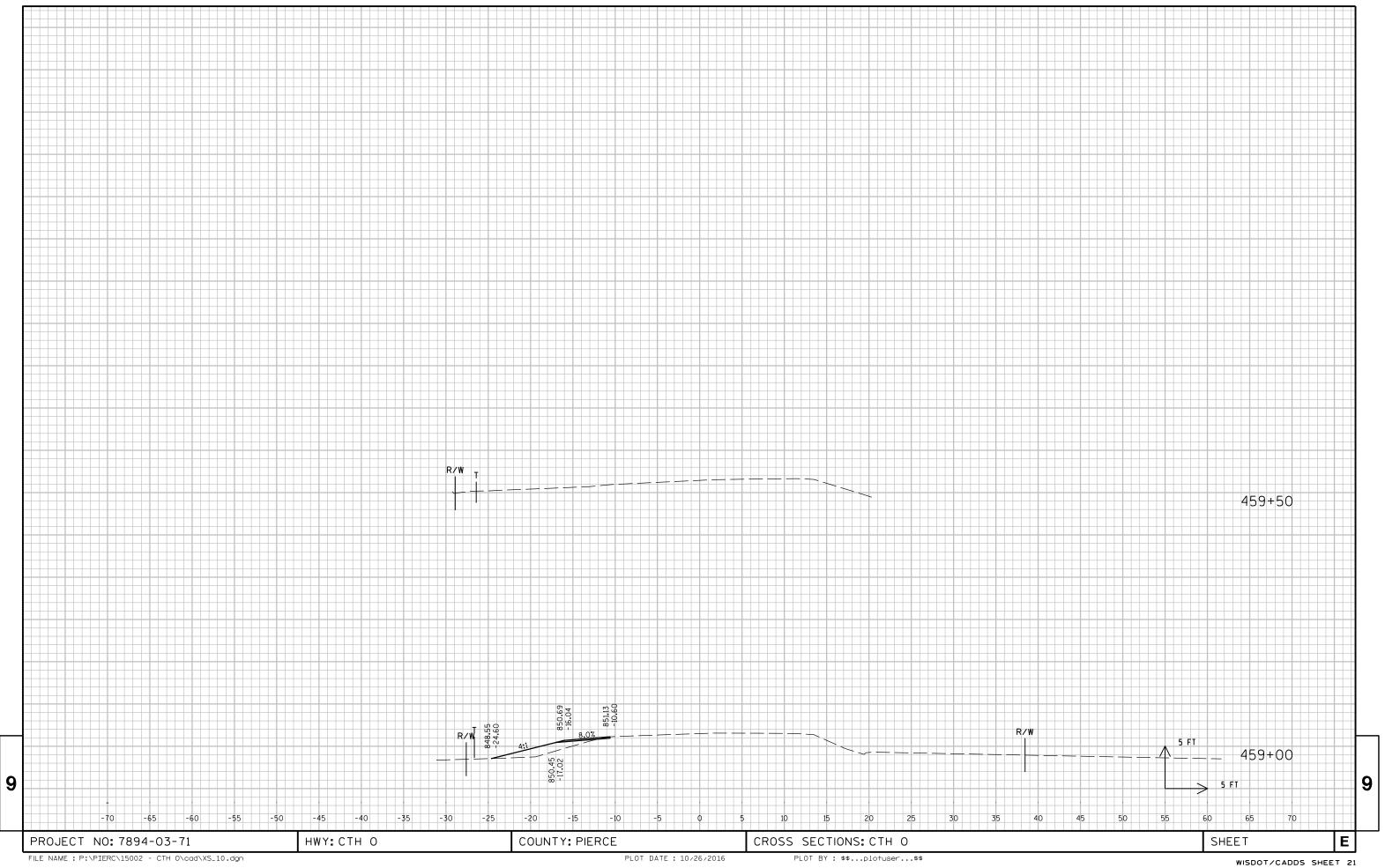


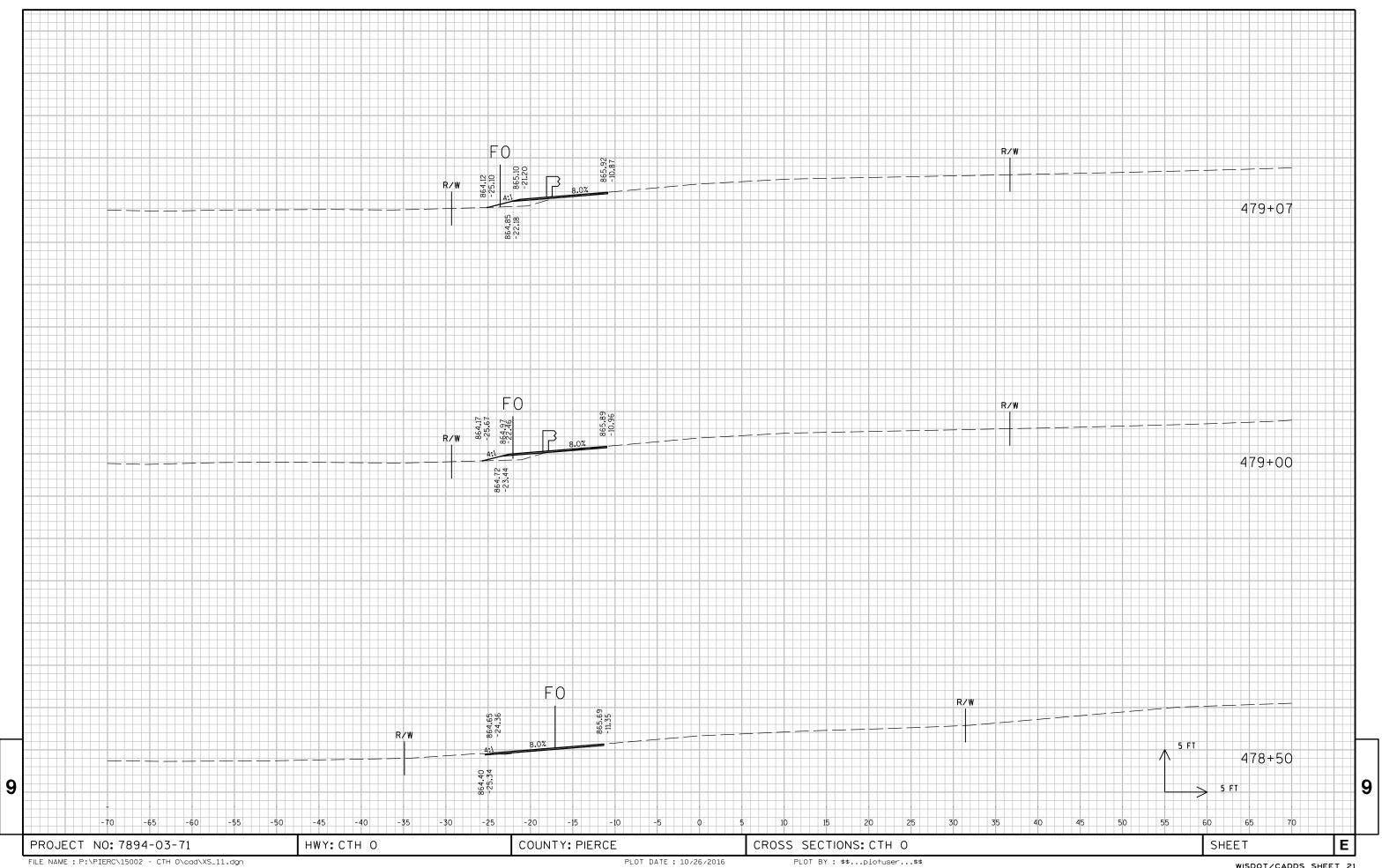


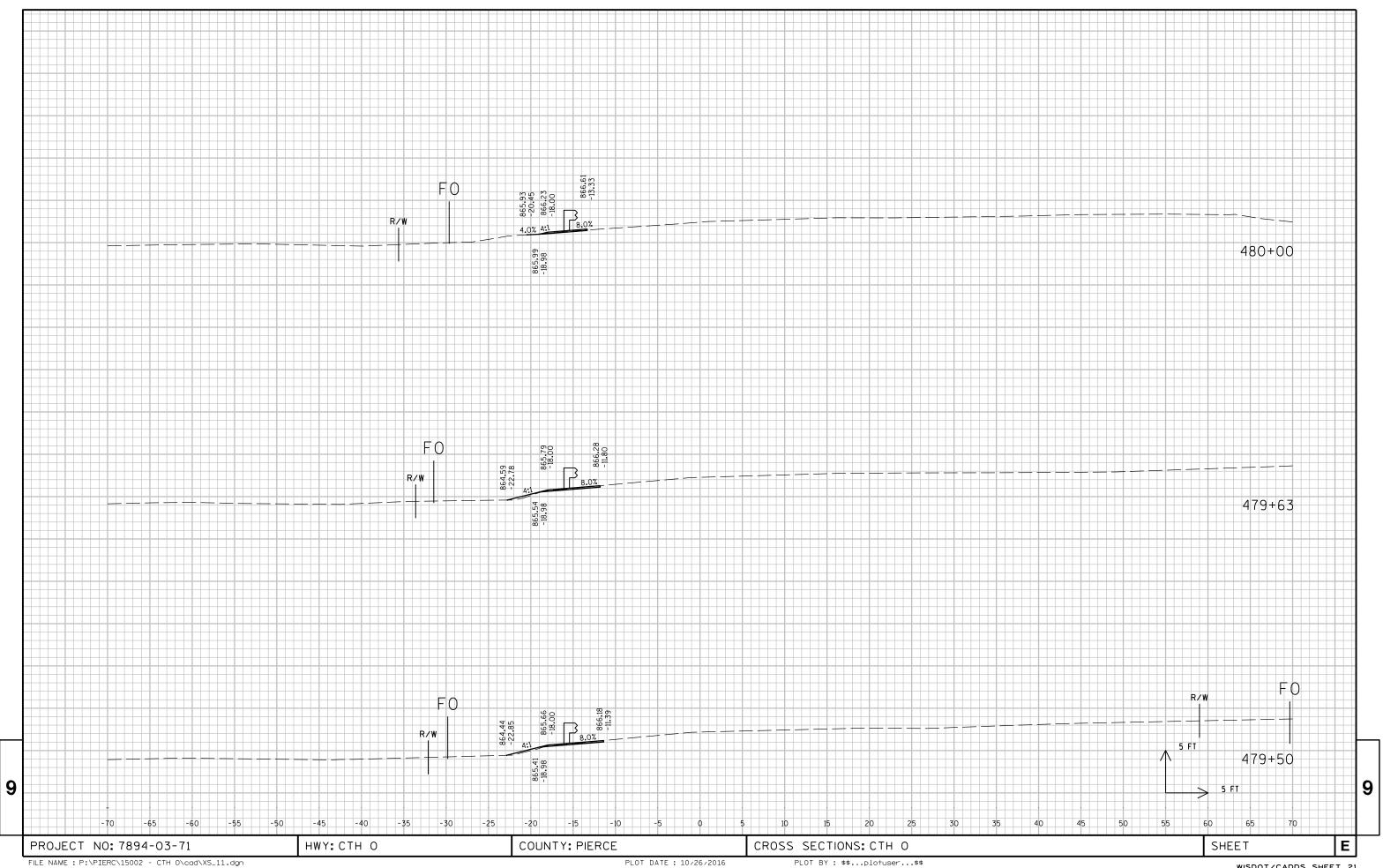


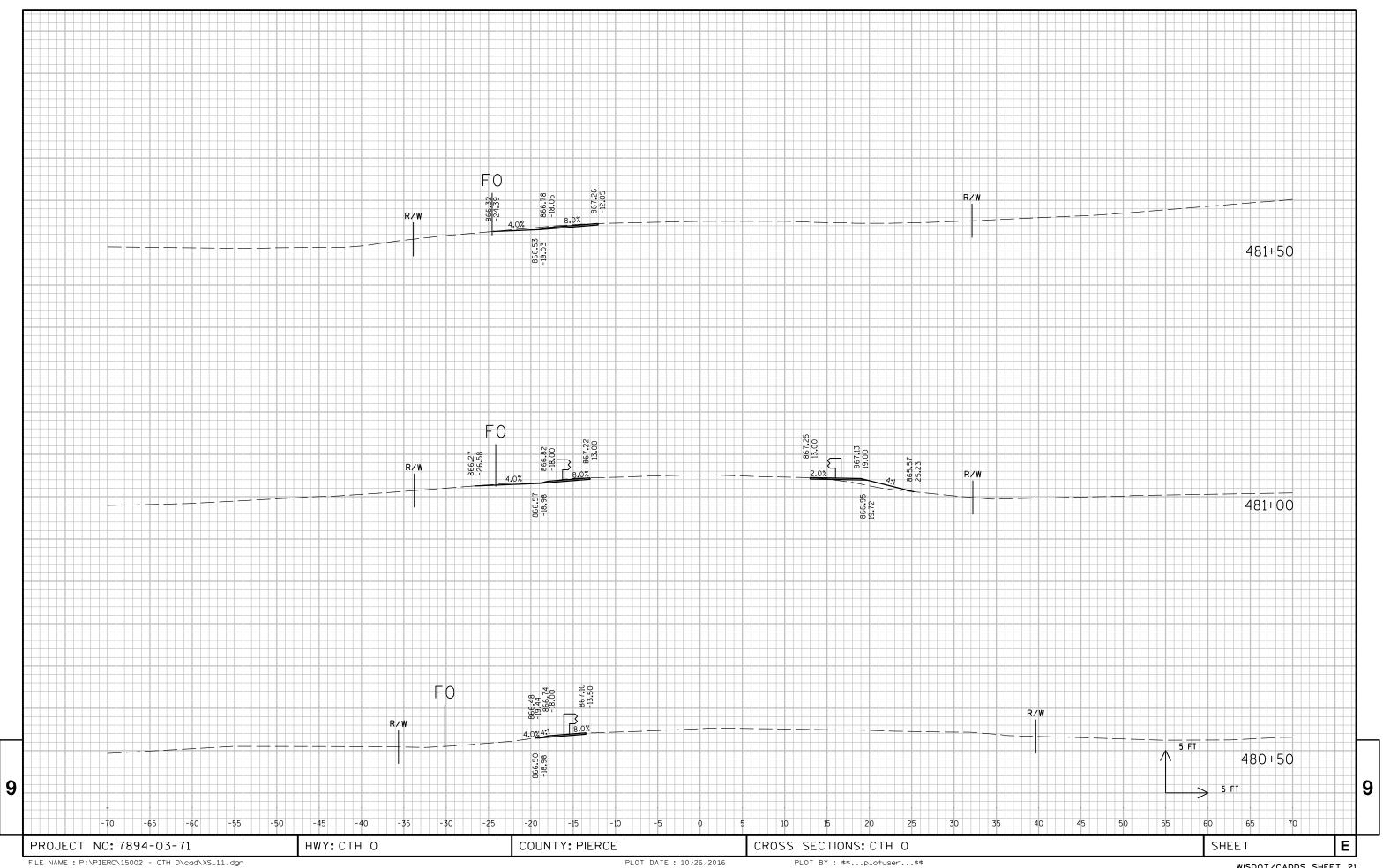


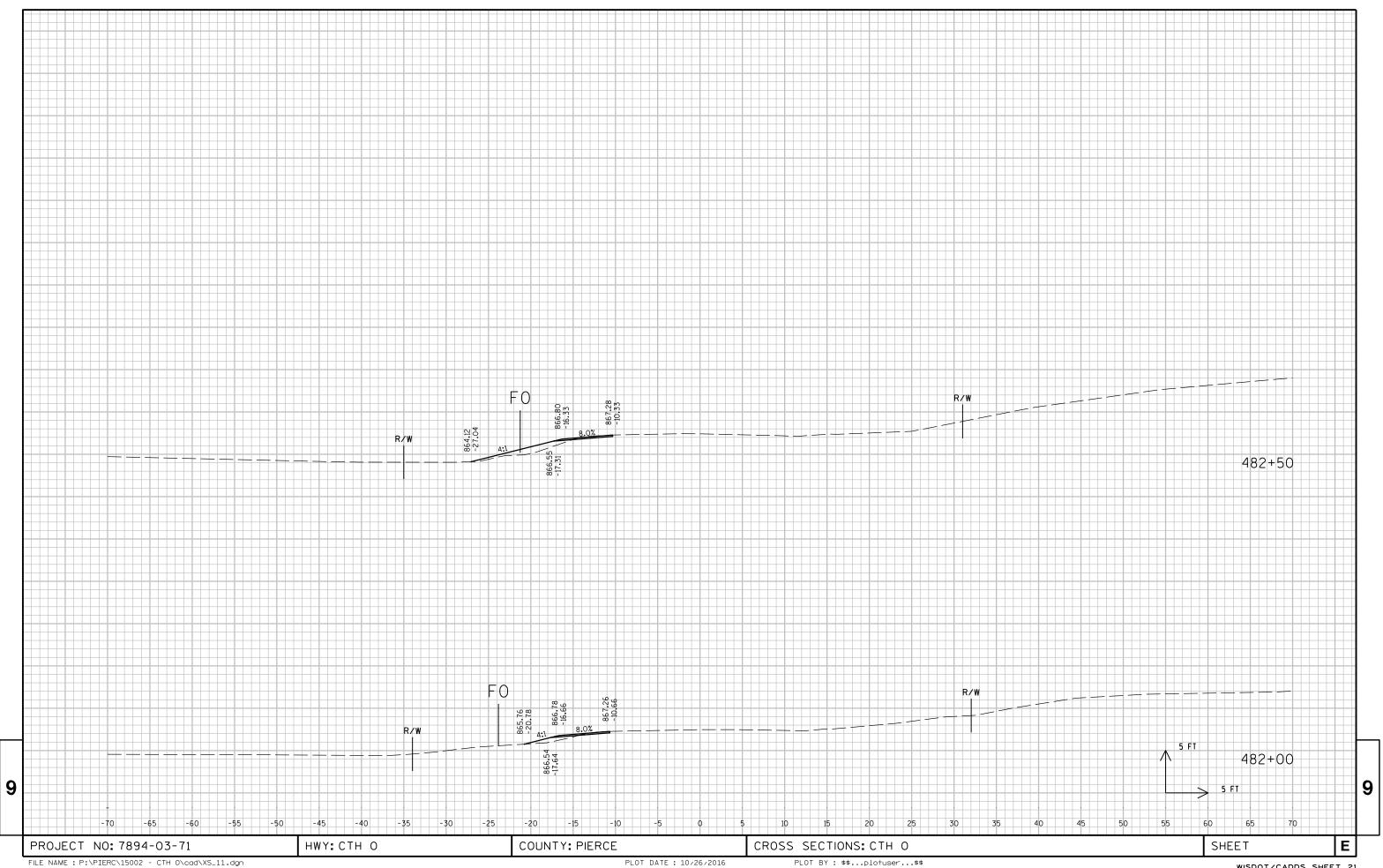


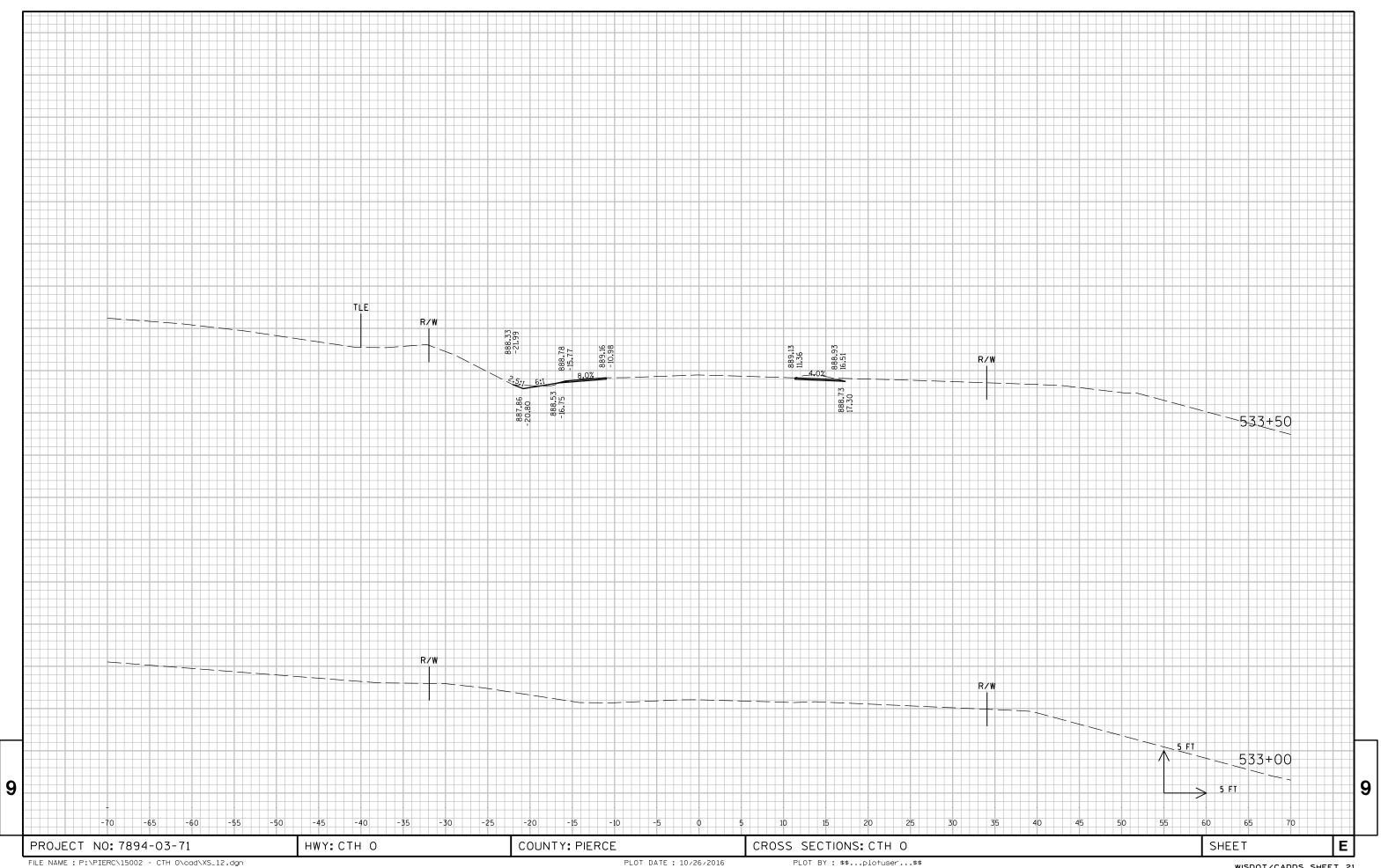


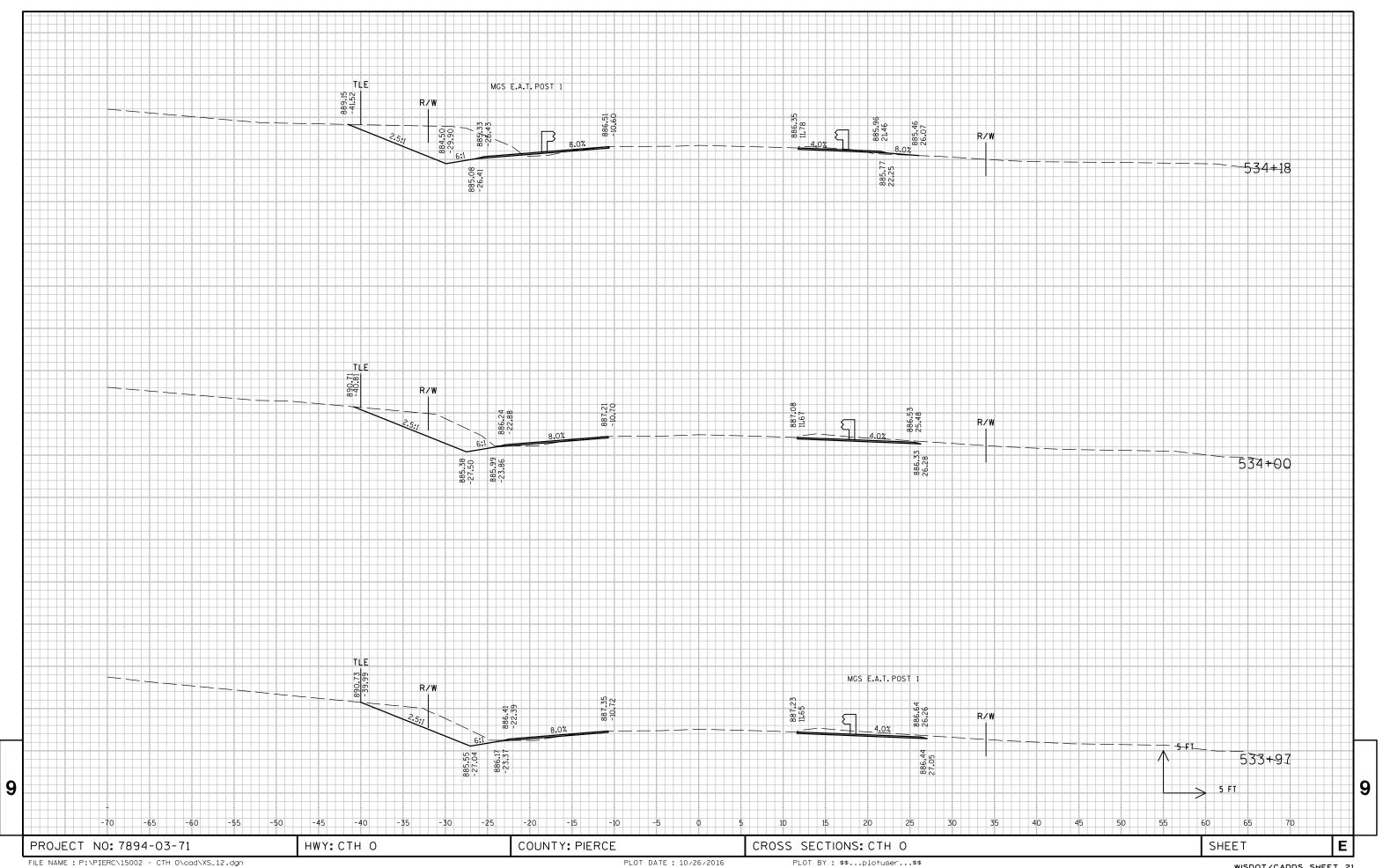


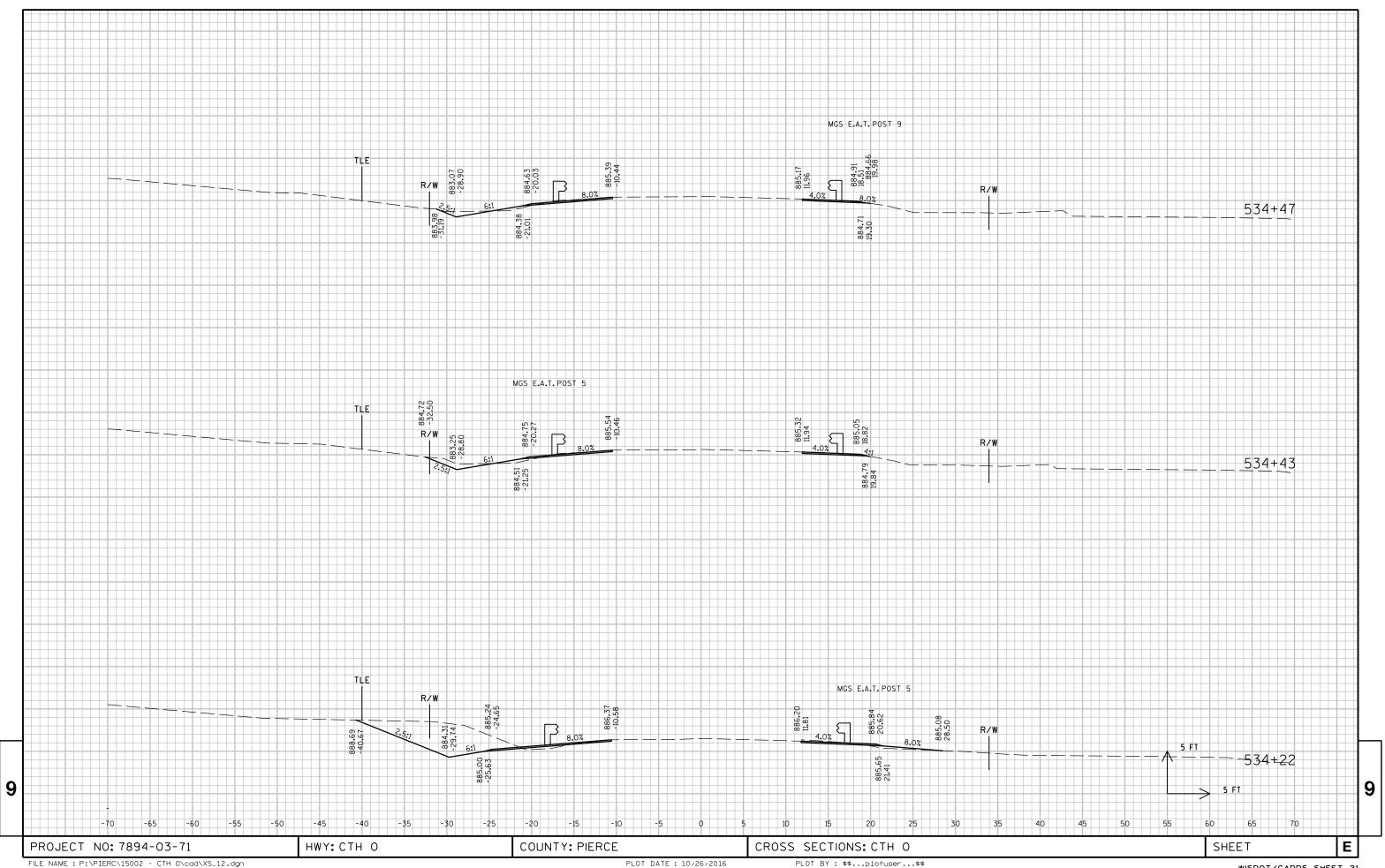


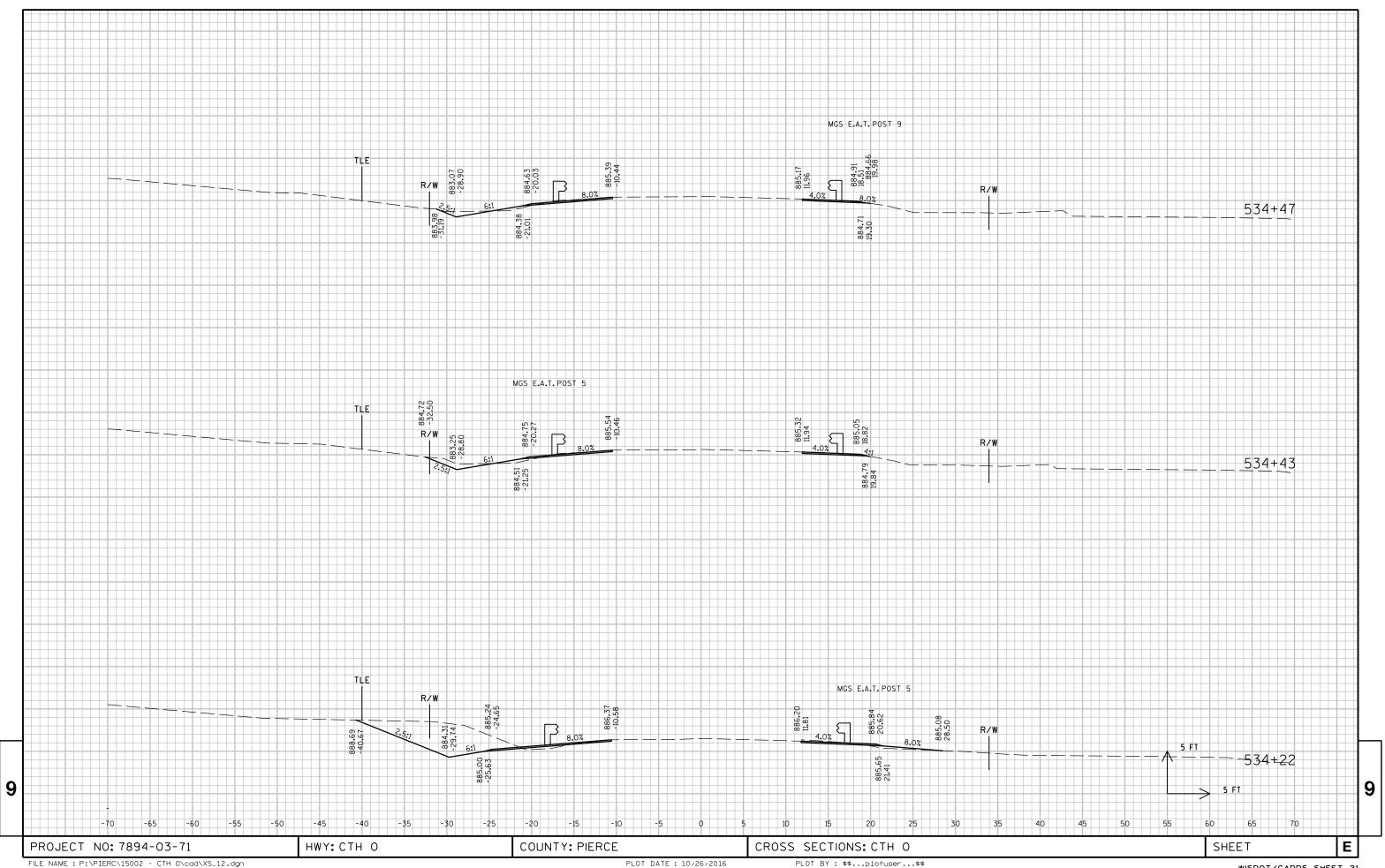


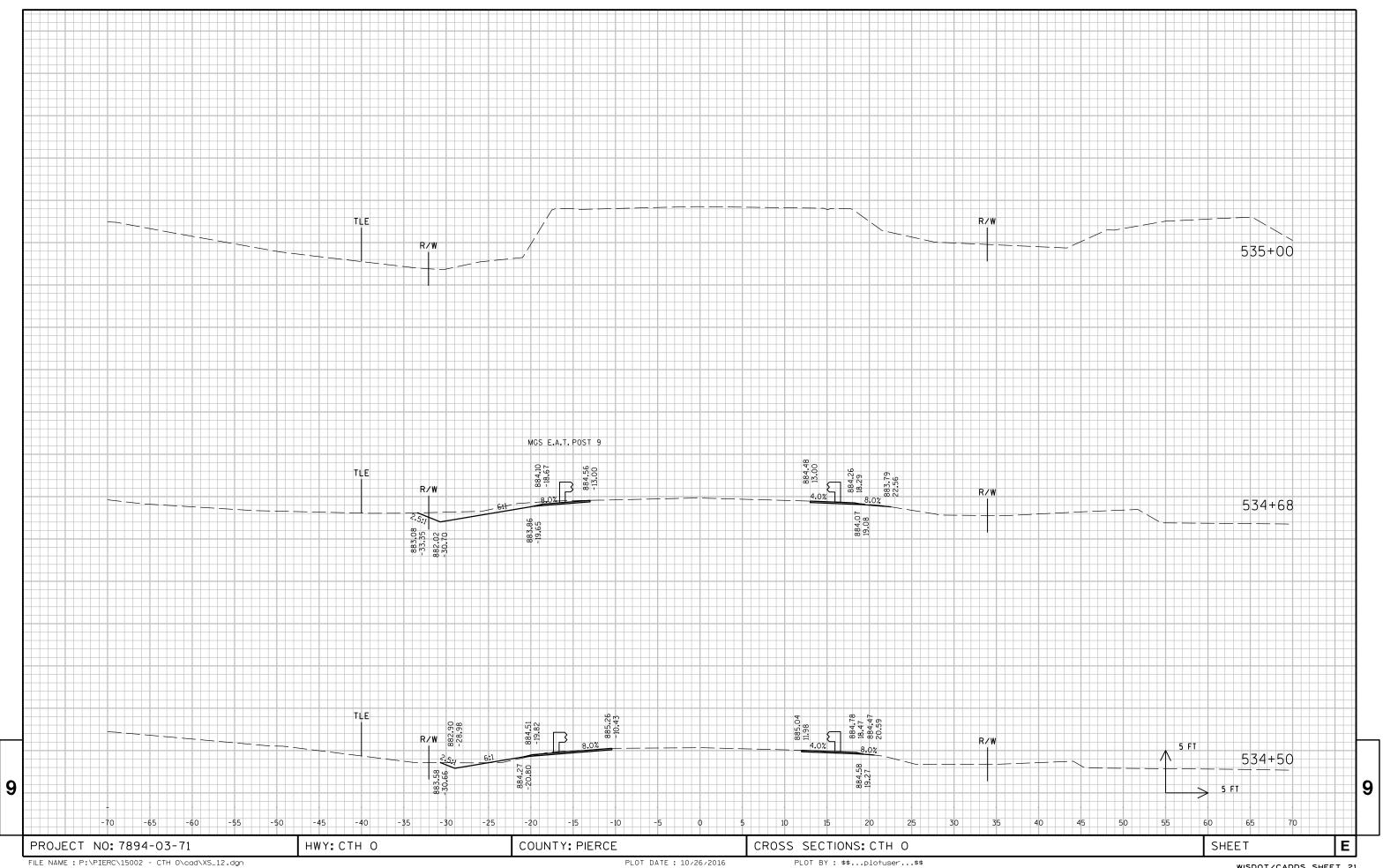


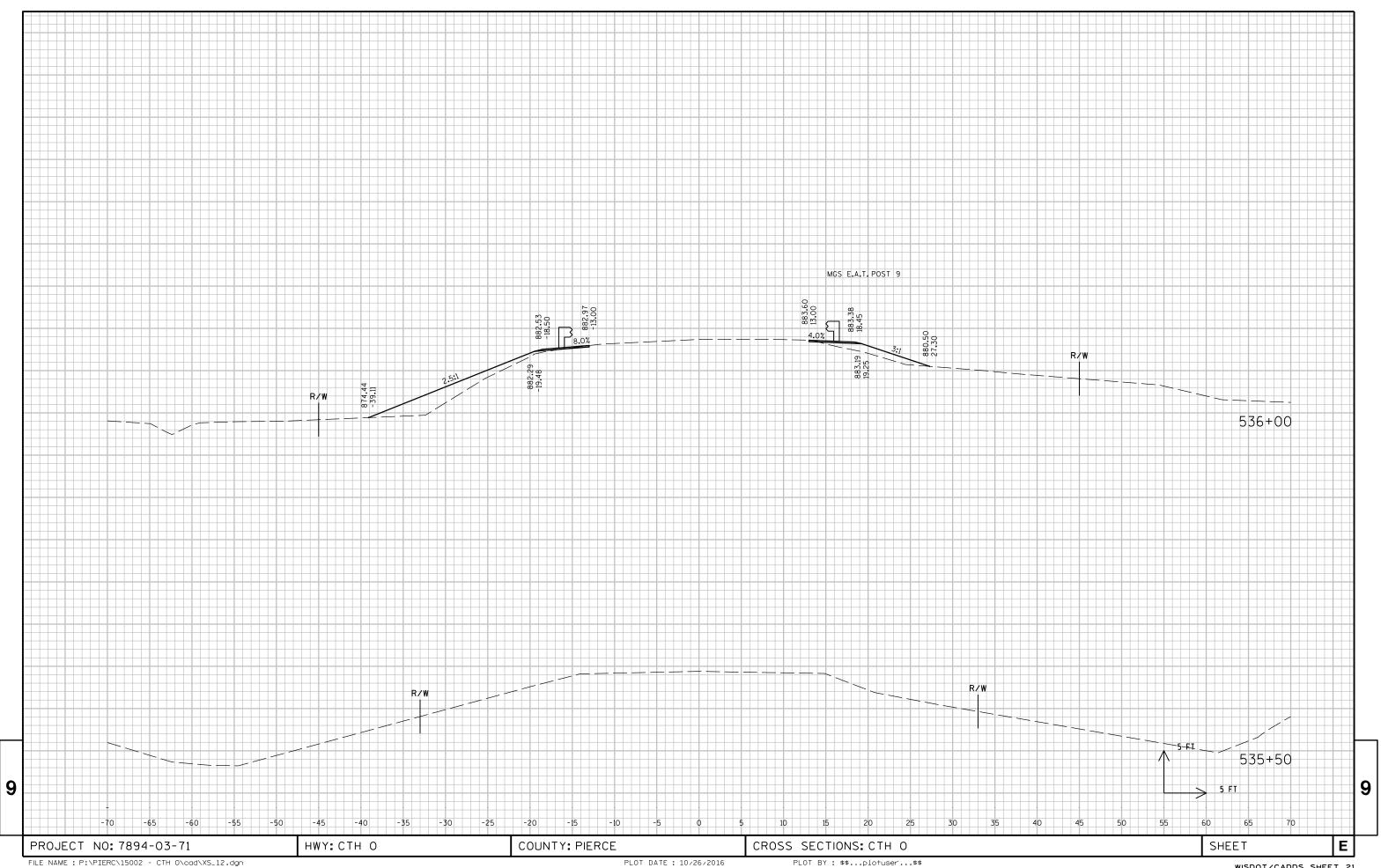


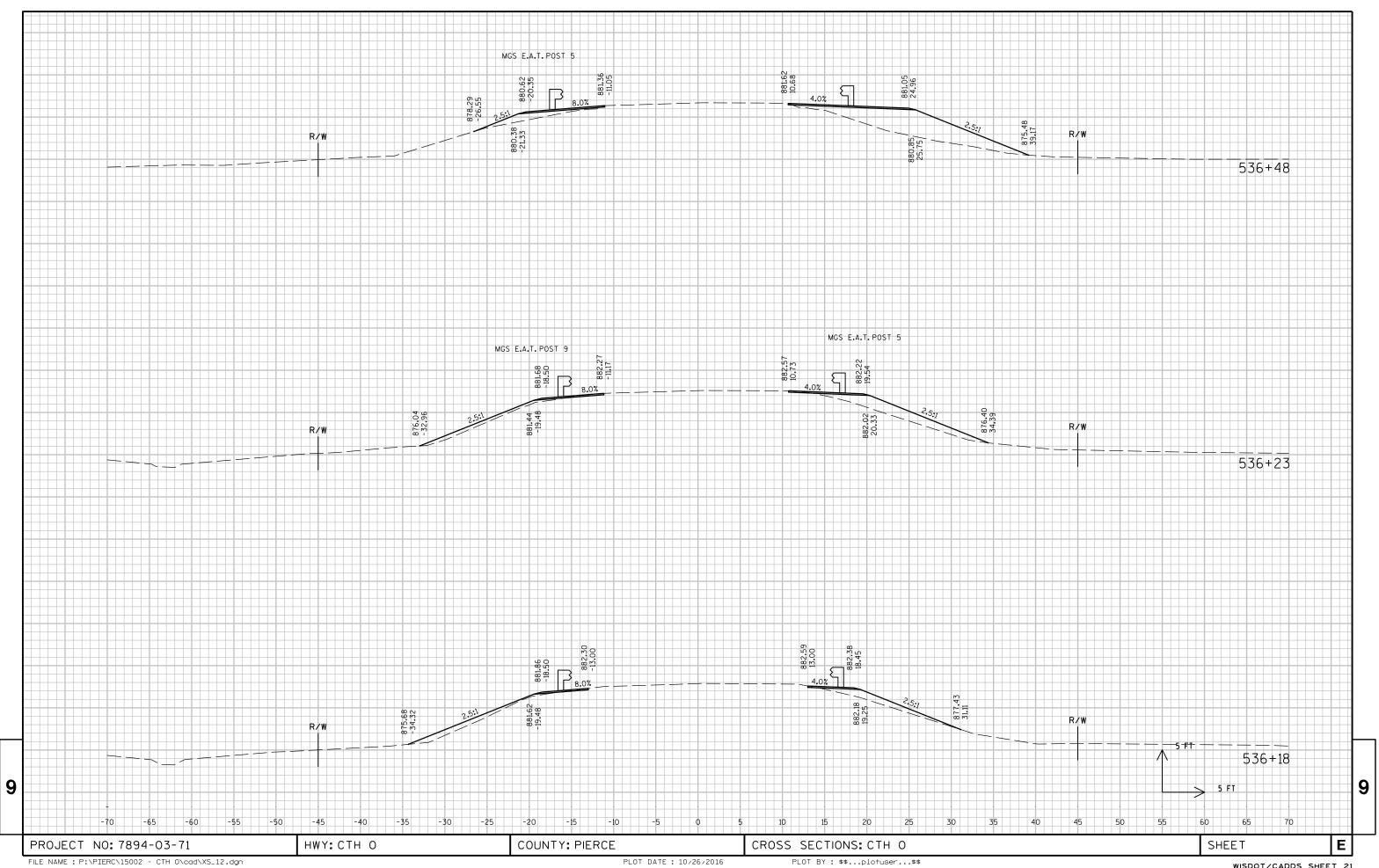


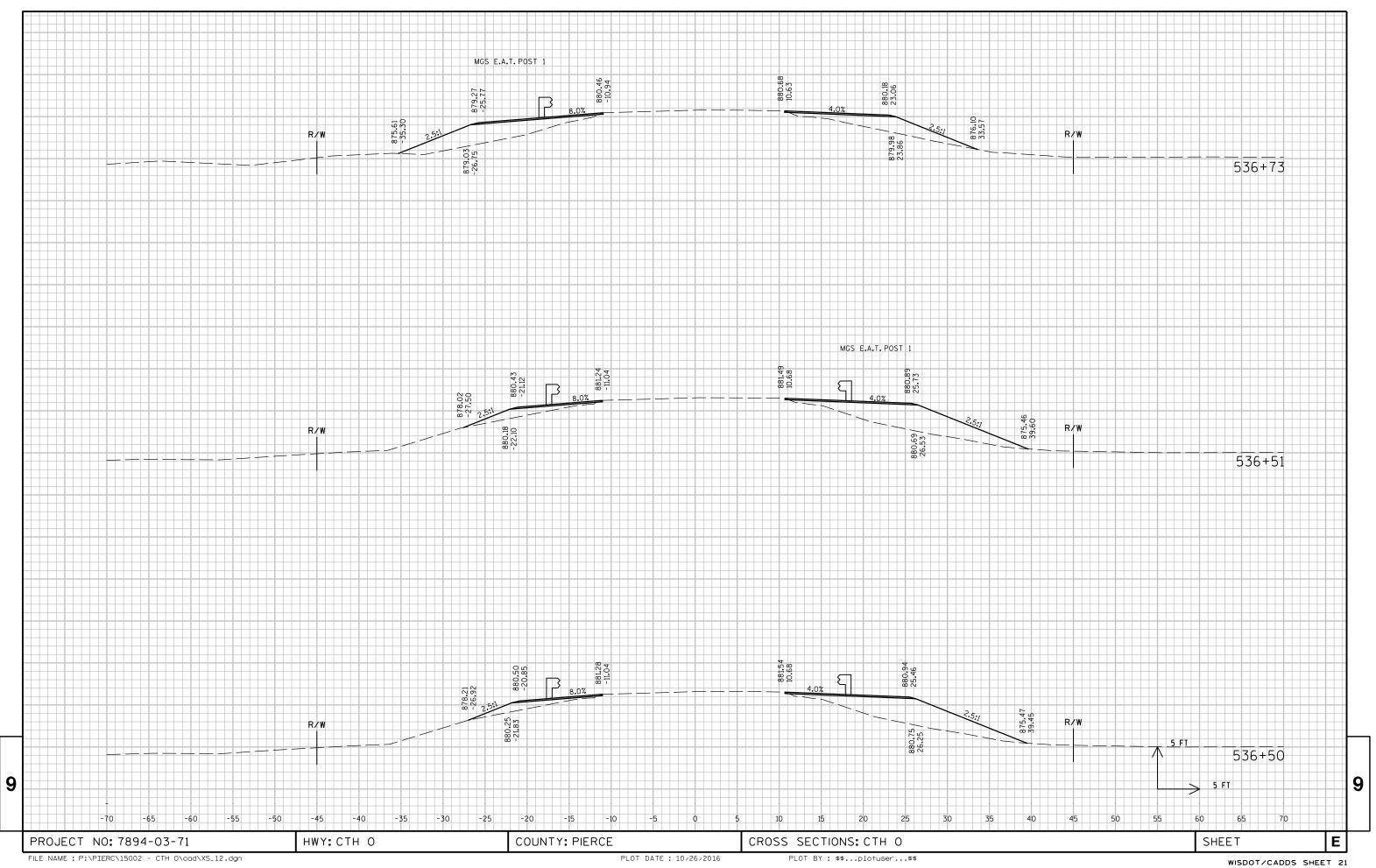


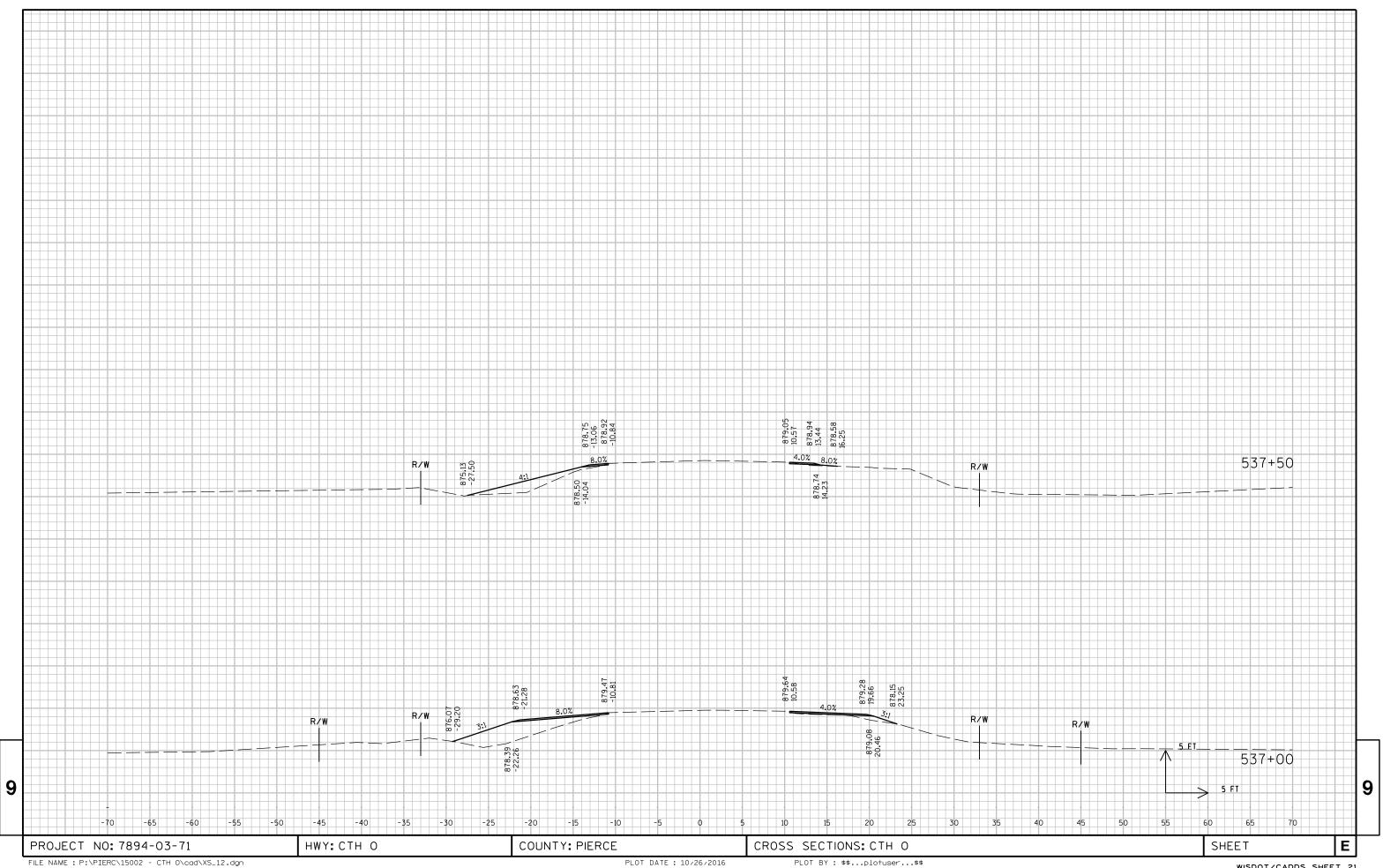














Wisconsin Department of Transportation

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