ORDER OF SHEETS

Typical Sections and Details

Estimate of Quantities

Miscellaneous Quantities

Standard Detail Drawings

Sign Plates

2015 = 1,285

2035 = 1,490

= 124

= 6,940 = 8.1%

= 55 MPH

= 343,100

PROJECT WITH: Section No. 1 Section No. 2 Section No. 3 Section No. 3 Section No. 5 Plan and Profile Section No. 6 05-06-TOTAL SHEETS = 150 DESIGN DESIGNATION A.A.D.T. A.A.D.T. D.H.V. D.D. DESIGN SPEED **ESALS** CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS MARSH AREA WOODED OR SHRUB AREA

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT WISC 2016130 7105-06-70 1

> END PROJECT STA. 282+85

PLAN OF PROPOSED IMPROVEMENT

ELLSWORTH - ELMWOOD

USH 63 TO CTH BB

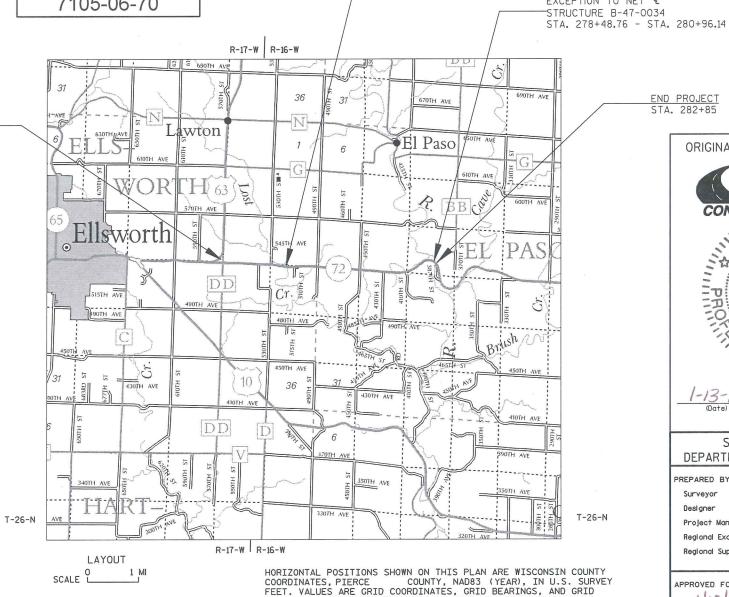


STATE PROJECT NUMBER 7105-06-70

EXCEPTION TO NET & STRUCTURE B-47-0034

EXCEPTION TO NET &

STRUCTURE B-47-0020 STA. 111+22.49 - STA. 113+08.35



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

ORIGINAL PLANS PREPARED BY

NINGCONS//

HALAMA

E-33618 MENOMONIE

PREPARED BY Surveyor FAA, INC. NICOLE PASSUELLO, P.E. CHRISTINE KOSKI

TIM MASON, P.E.

APPROVED FOR THE DEPARTMENT

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

() \Box

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PLOT DATE : 1/14/2016 6:17 AM

TOTAL NET LENGTH OF CENTERLINE = 4.63 MI

SCALE

BEGIN PROJECT

X = 500269.02

Y = 317417.58

STA. 34+00

PLOT BY : SKIP BERTRAND

PLOT NAME :

1//////

PROFILE

GRADE LINE ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TEL EPHONE

WATER

GRADE ELEVATION

MARSH OR ROCK PROFILE

CULVERT (Profile View)

(To be noted as such)

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE FERTILIZED. SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

ALL PRIVATE DRIVEWAYS AND COMMERCIAL ENTRANCES SHALL BE RESTORED IN KIND, LIMITS TO BE DETERMINED BY THE ENGINEER.

PAVING LIMITS ARE TO BE DETERMINED BY THE ENGINEER.

LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE, THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ALL RADII ARE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON THE PLAN.

CURVE DATA IS BASED ON THE ARC DEFINITION.

"ASPHALTIC SURFACE" ITEM IS TO BE USED FOR LEVELING/WEDGING AND SPOT REPAIR.

"ASPHALTIC SURFACE PATCHING" ITEM IS TO BE USED FOR RAMPING AT BUTT JOINT SAW CUTS, MISCELLANEOUS REPAIRS OF POTHOLES AND POPOUTS THAT OCCUR DURING CONSTRUCTION.

"SPECIAL 01. PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING" ITEM IS ASSOCIATED WITH THE WORK FOR THE "ASPHALTIC SURFACE" AND "ASPHALTIC SURFACE" ITEMS.

PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN

THE EROSION CONTROL FEATURES AS SHOWN ON THE PLAN DETAILS ARE AT SUGGESTED LOCATIONS, THEIR EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

WETLANDS MAY EXIST IN LOCATIONS THAT ARE NOT SHOWN IN THE PLANS. DO NOT STAGE IN OR DISTURB WETLANDS AREAS.

WHEN THE QUANTITY OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, 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

THE PROPOSED SHOULDER WIDTHS SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH, PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTION.

SPECIAL O1. HMA PAVEMENT TYPE 5MT 5834H SHALL CONSIST OF A 1-INCH LEVELING LAYER.

SPECIAL 02. HMA PAVEMENT TYPE SMA-SPECIAL SHALL CONSIST OF A 1½-INCH UPPER LAYER.

THE LATEST APPROVED DOT & WEDGE JOINT SHOULD NOT BE USED ON THE UPPER LAYER WITHIN THE FINAL PAVEMENT STRUCTURE, THE CONTRACTOR SHOULD MILL OUT ANY WEDGE USED FOR TRAFFIC STAGING PRIOR TO PLACING THE ADJACENT LANE.

REMOVE ALL EXISTING CULVERT MARKER POSTS. "MARKERS CULVERT END" REQUIRED AT ALL CROSS CULVERT LOCATIONS.

STANDARD ABBREVIATIONS

A.A.D.T. B.A.D. ANNUAL AVERAGE DAILY TRAFFIC BASE AGGREGATE DENSE C/L CMCP CENTERLINE CORRUGATED METAL CULVERT PIPE CY D.D. D.H.V. CUBIC YARD DAILY DIRECTIONAL SPLIT (TRAFFIC VOLUME) DAILY HOURLY TRAFFIC E.A.T. EB ENERGY ABSORBING TERMINAL EASTBOUND EL. ESALS EQUIVALENT SINGLE AXLE LOADS FO FIRER OPTIC INV INVERT LB LF OR L.F. LINEAR FEET LEFT MAX. MAXIMUM MIN. MINIMUM NB NPZ NORTHBOLIND NO PASSING ZONE OVERHEAD PRIVATE ENTRANCE REQ'D REQUIRED

OH P.E. R/L OR RL REFERENCE LINE RT. R/W RIGHT OF WAY SB S.D.D. STA. SOUTHBOUND STANDARD DETAIL DRAWING

STATION SQUARE FOOT STH STATE HIGHWAY SY SQUARE YARD

T. T.L.E. TYP. VAR. PERCENT OF TRUCK TRAFFIC TEMPORARY LIMITED EASEMENT TYPICAL

VARIES WESTBOUND WISDOT REGIONAL CONTACT

TARA WEISS WISDOT NORTHWEST REGION EAU CLAIRE OFFICE 718 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 (715) 836-2283

TIM MASON WISDOT NORTHWEST REGION EAU CLAIRE OFFICE 718 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 (715) 833-5366

W.D.N.R. CONTACT DEPARTMENT OF NATURAL RESOURCES WEST CENTRAL REGION 1300 W. CLAIREMONT AVE. P.O. BOX 4001 EAU CLAIRE, WI. 54701 ATTENTION: CHRIS WILLGER

DESIGN CONTACT

(715) 839-2786

FLEMING, ANDRE & ASSOCIATES, INC. MATT GUNDRY 3615 N. HASTINGS WAY - STE. 100 EAU CLAIRE, WI 54703 (715) 832-8400

mjgundry@faa-engineers.com

UTILITIES

DAN HUEBL NORTHERN NATURAL GAS COMPANY - GAS/PETROLEUM 4685 212TH ST. WEST P.O. BOX 188 FARMINGTON, MN 55024-0188 (402) 530-3414 dan.huebl@nngco.com

JERRY DEWOLFE PIERCE-PEPIN COOPERATIVE SERVICES W7725 US HWY 10 P.O. BOX 420 ELLSWORTH, WI 54011 (715) 273-4460

RICK PODOLAK AT&T WISCONSIN - COMMUNICATION LINE 304 S DEWEY ST EAU CLAIRE, WI 54701 (715) 839-5565



PROJECT NO: 7105-06-70

HWY: STH 72

COUNTY: PIERCE

GENERAL NOTES

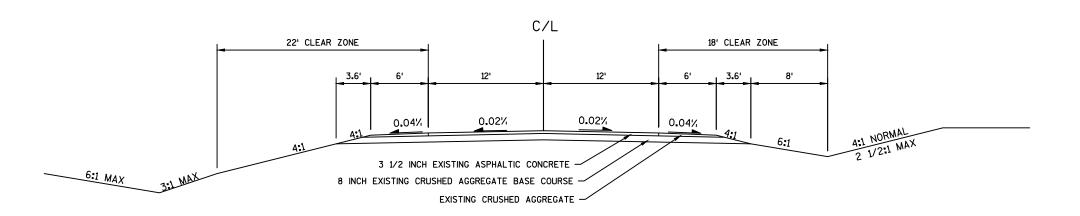
PLOT BY : DEVLIN BAUER

PLOT NAME :

Ε

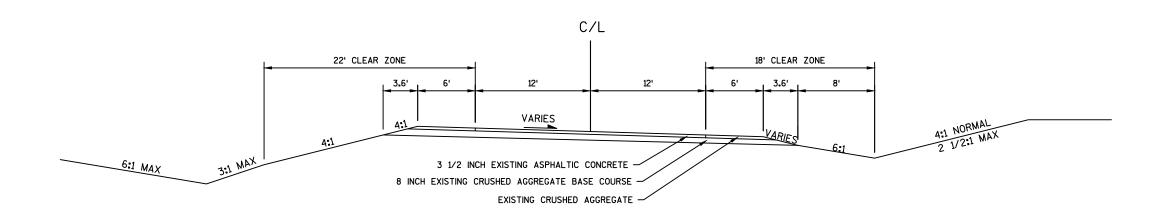
SHEET

2



EXISTING TYPICAL SECTION STH 72

STA 34+00.00 TO STA 93+74.00 STA 102+36.46 TO STA 106+53.29 STA 122+59.74 TO STA 127+93.08 STA 136+70.81 TO STA 166+15.25 STA 172+37.41 TO STA 232+44.20 STA 262+04.59 TO STA 263+63.21



EXISTING SUPERELEVATED TYPICAL SECTION STH 72

STA 93+74.00 TO STA 102+36.46 STA 106+53.29 TO STA 122+59.74 STA 127+93.08 TO STA 136+70.81 STA 232+44.20 TO STA 172+37.41 STA 263+63.21 TO STA 282+85.00

PROJECT NO: 7105-06-70 HWY: STH 72

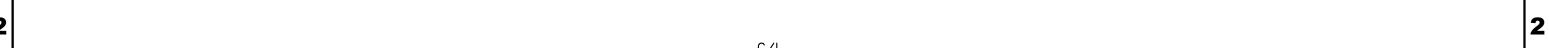
COUNTY: PIERCE

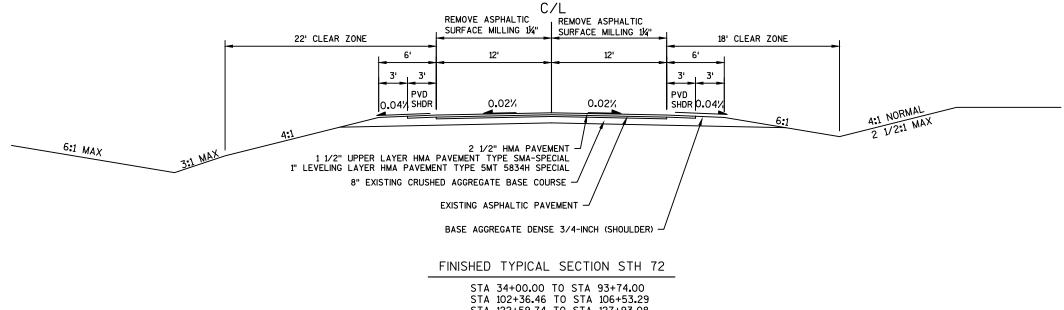
PLAN: TYPICAL SECTIONS

SHEET

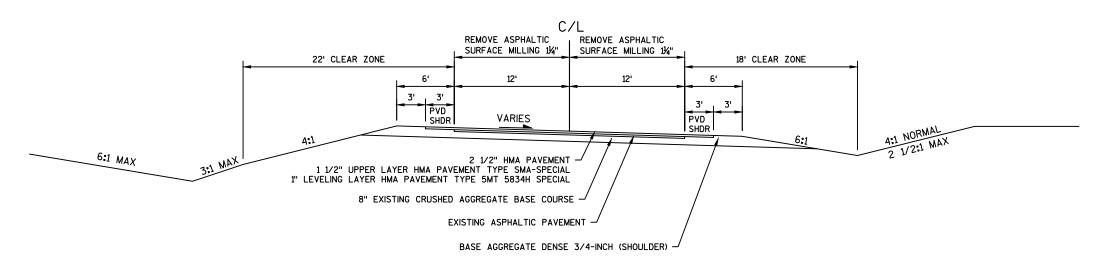
WISDOT/CADDS SHEET 42

Ε





STA 122+59.74 TO STA 127+93.08 STA 136+70.81 TO STA 166+15.25 STA 172+37.41 TO STA 232+44.20 STA 262+04.59 TO STA 263+63.21



FINISHED SUPERELEVATED TYPICAL SECTION STH 72

STA 93+74.00 TO STA 102+36.46 STA 106+53.29 TO STA 122+59.74 STA 127+93.08 TO STA 136+70.81 STA 232+44.20 TO STA 172+37.41 STA 263+63.21 TO STA 282+85.00

* NOTE: SURFACE MILL SLOPE SHALL MATCH SLOPE OF PROPOSED SURFACE HMA.

COUNTY: PIERCE E PROJECT NO:7105-06-70 HWY: STH 72 PLAN: TYPICAL SECTIONS SHEET PLOT BY : DEVLIN BAUER

2

C/L

VARIES 8' TYP.

12'

12'

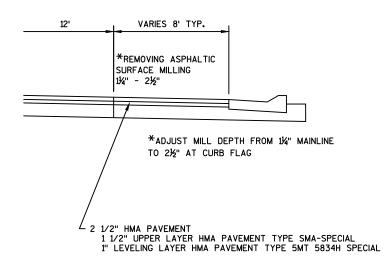
SEE DETAIL BELOW:

2 1/2" HMA PAVEMENT
1 1/2" UPPER LAYER HMA PAVEMENT TYPE SMA-SPECIAL
1" LEVELING LAYER HMA PAVEMENT TYPE 5MT 5834H SPECIAL
8" EXISTING CRUSHED AGGREGATE BASE COURSE

EXISTING SLOPED FACE CURB

FINISHED TYPICAL SECTION STH 72

STA 263+00 TO STA 272+49



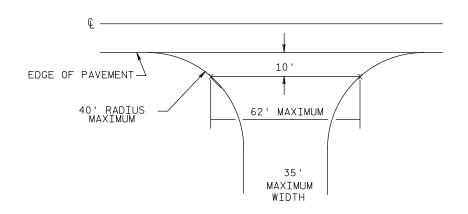
* NOTE: SURFACE MILL SLOPE SHALL MATCH SLOPE OF PROPOSED SURFACE HMA.

PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE PLAN: TYPICAL SECTIONS SHEET

PLOT BY : DEVLIN BAUER

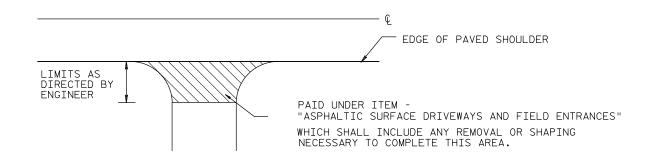
EDGE OF PAVEMENT 30' RADIUS MAXIMUM 16' TYPICAL 24' MAXIMUM WIDTH

TYPICAL DRIVEWAY DETAIL (NON-COMMERCIAL RURAL)

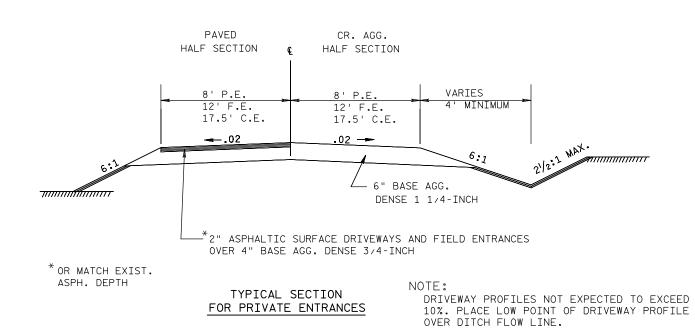


TYPICAL DRIVEWAY DETAIL
(COMMERCIAL RURAL)

RURAL DRIVEWAY DETAIL - ASPHALT



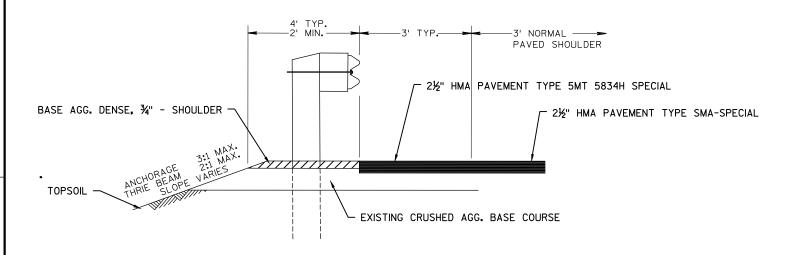
ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 3/4-INCH"



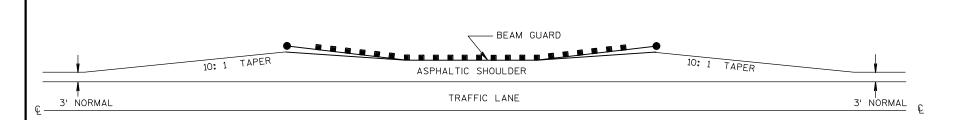
PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE PLAN: CONSTRUCTION DETAILS SHEET

E

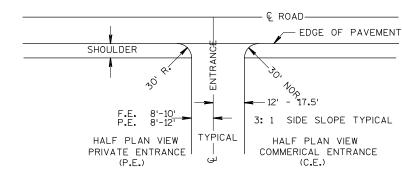
DETAIL OF CURB & GUTTER TERMINI



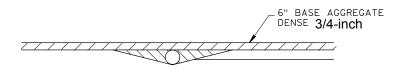
ASPHALTIC SHOULDER AT BEAM GUARD



DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

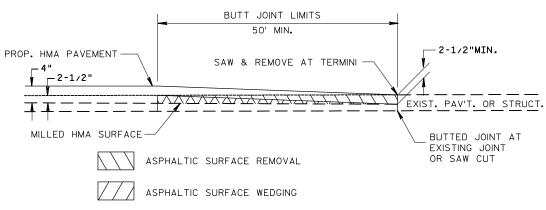


PLAN VIEW



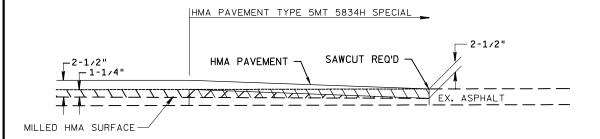
PROFILE VIEW

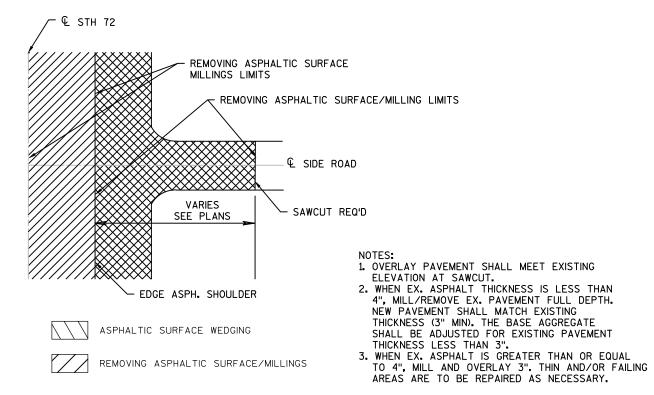
RURAL DRIVEWAY DETAIL

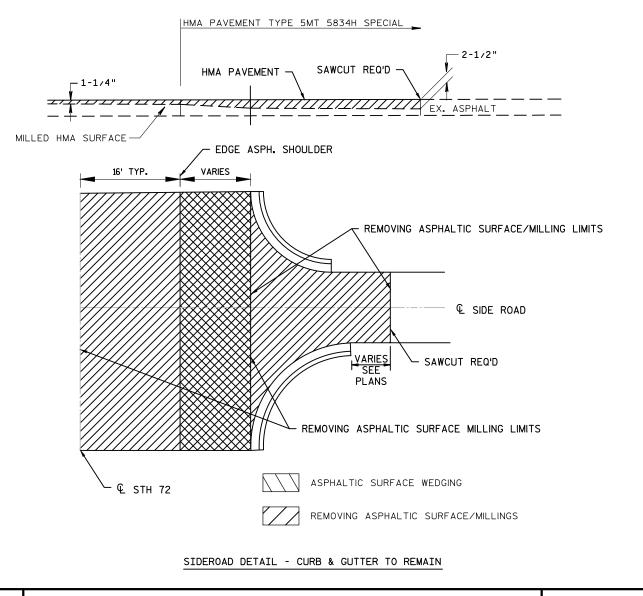


BUTT JOINT DETAIL AT STRUCTURE & PROJECT LIMITS

PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE PLAN: CONSTRUCTION DETAILS SHEET E

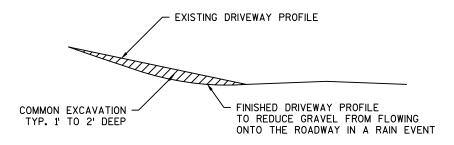




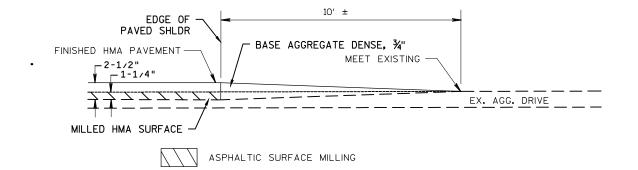


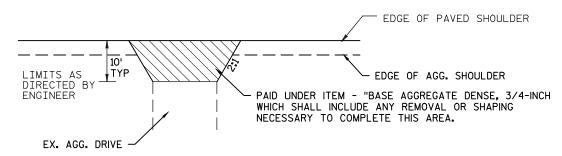
SIDE ROAD DETAIL - NO CURB & GUTTER

PLAN: CONSTRUCTION DETAILS PROJECT NO: 7105-06-70 HWY: STH 72 COUNTY: PIERCE SHEET E PLOT BY : DEVLIN BAUER PLOT NAME :



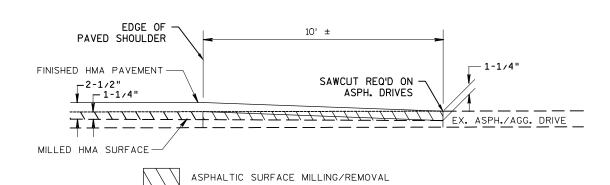
RESHAPE FIELD ENTRANCE

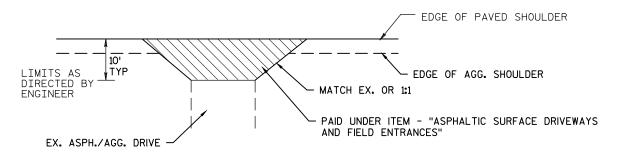




NOTE: ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 3/4-INCH"

RURAL DRIVEWAY DETAIL - AGGREGATE



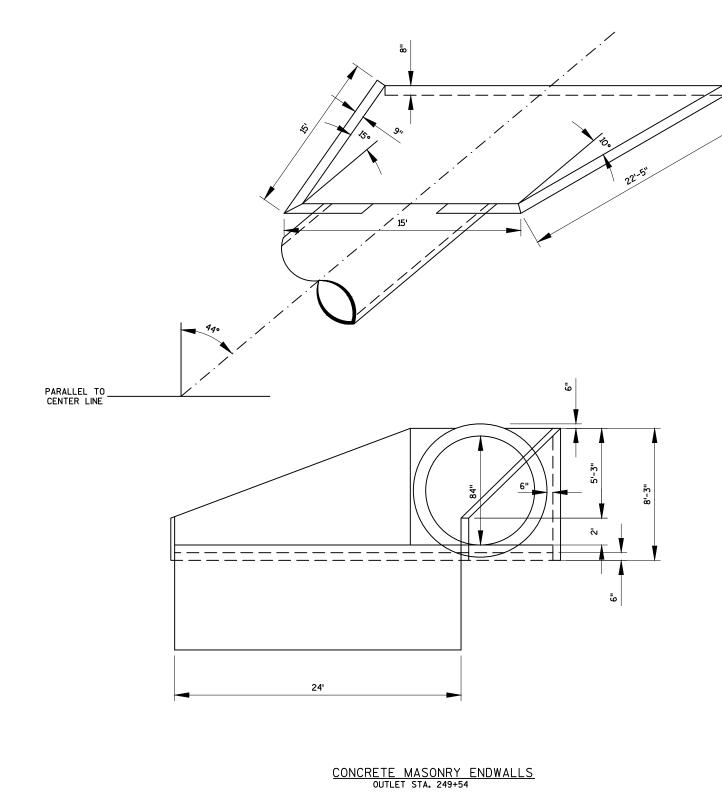


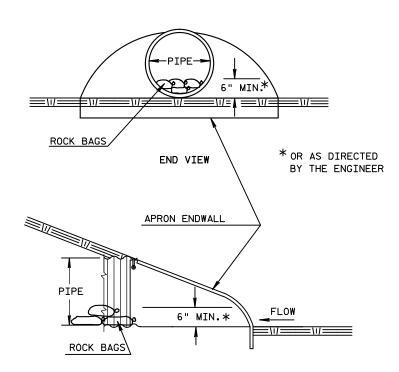
NOTE: ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 3/4-INCH"

RURAL DRIVEWAY DETAIL - ASPHALT

PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE PLAN: CONSTRUCTION DETAILS SHEET

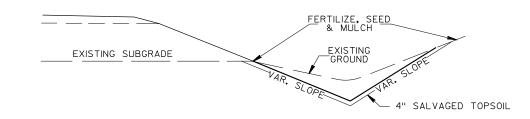






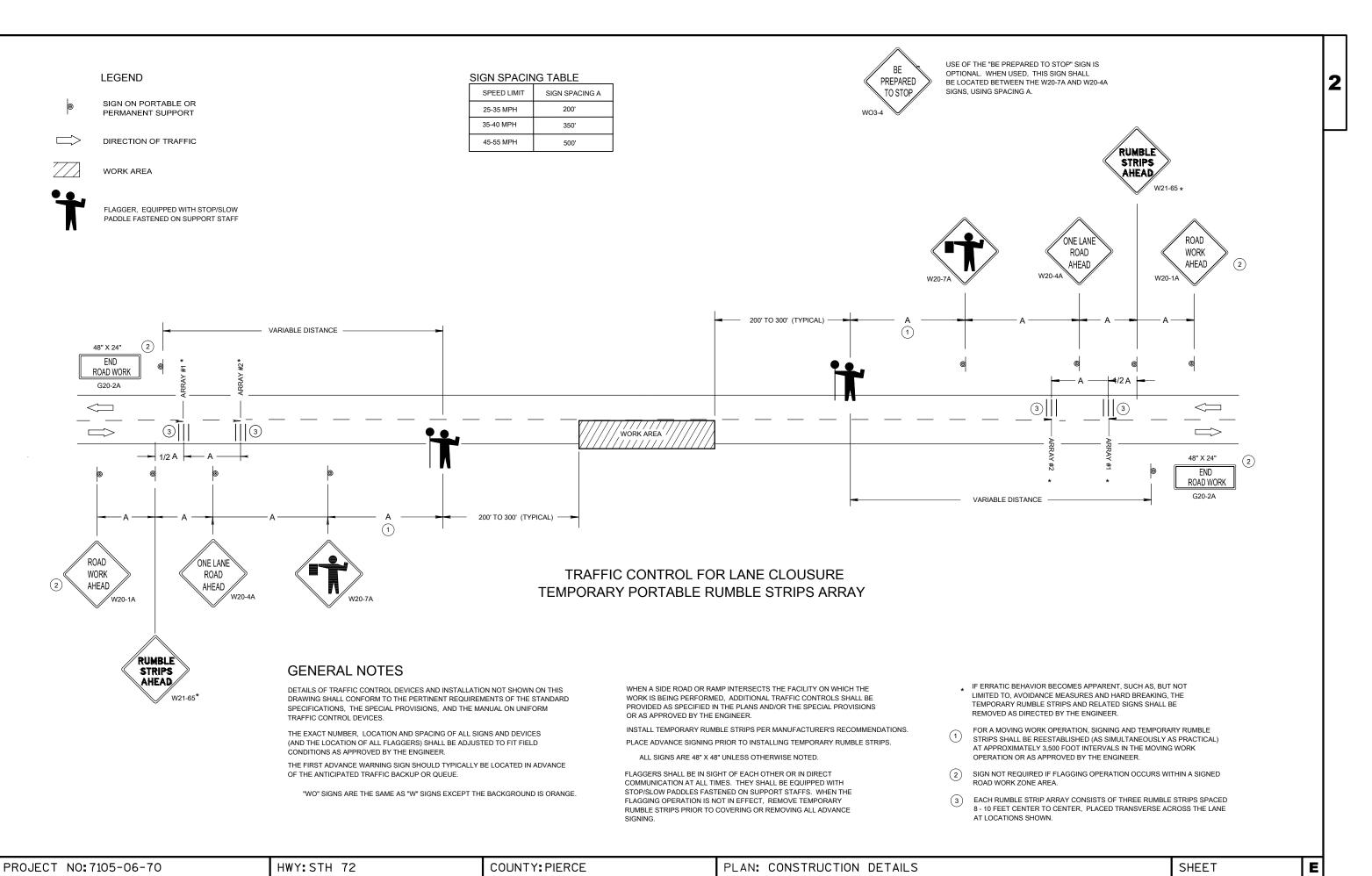
SIDE VIEW

CULVERT PIPE CHECK



DITCH CLEANING DETAIL

PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE PLAN: CONSTRUCTION DETAILS SHEET **E**



FILE NAME : F:\DRAWINGS\2012-134\0008\71050631\SHEETSPLAN\021001_CD.DWG PLOT DATE: 2/26/2016 4:01 PM PLOT BY : DEVLIN BAUER PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

48" X 24" END ROAD WORK

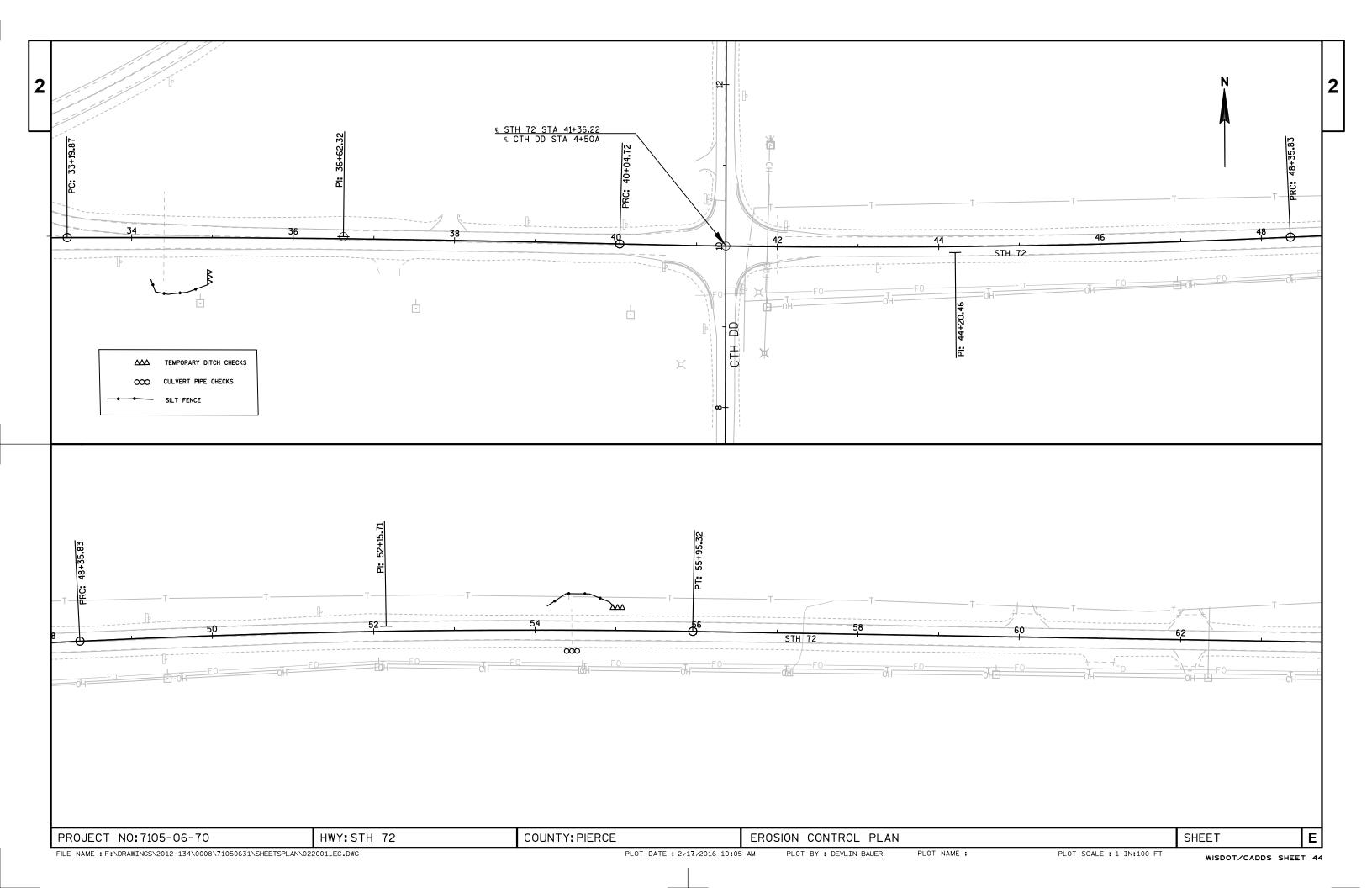
G20-2A

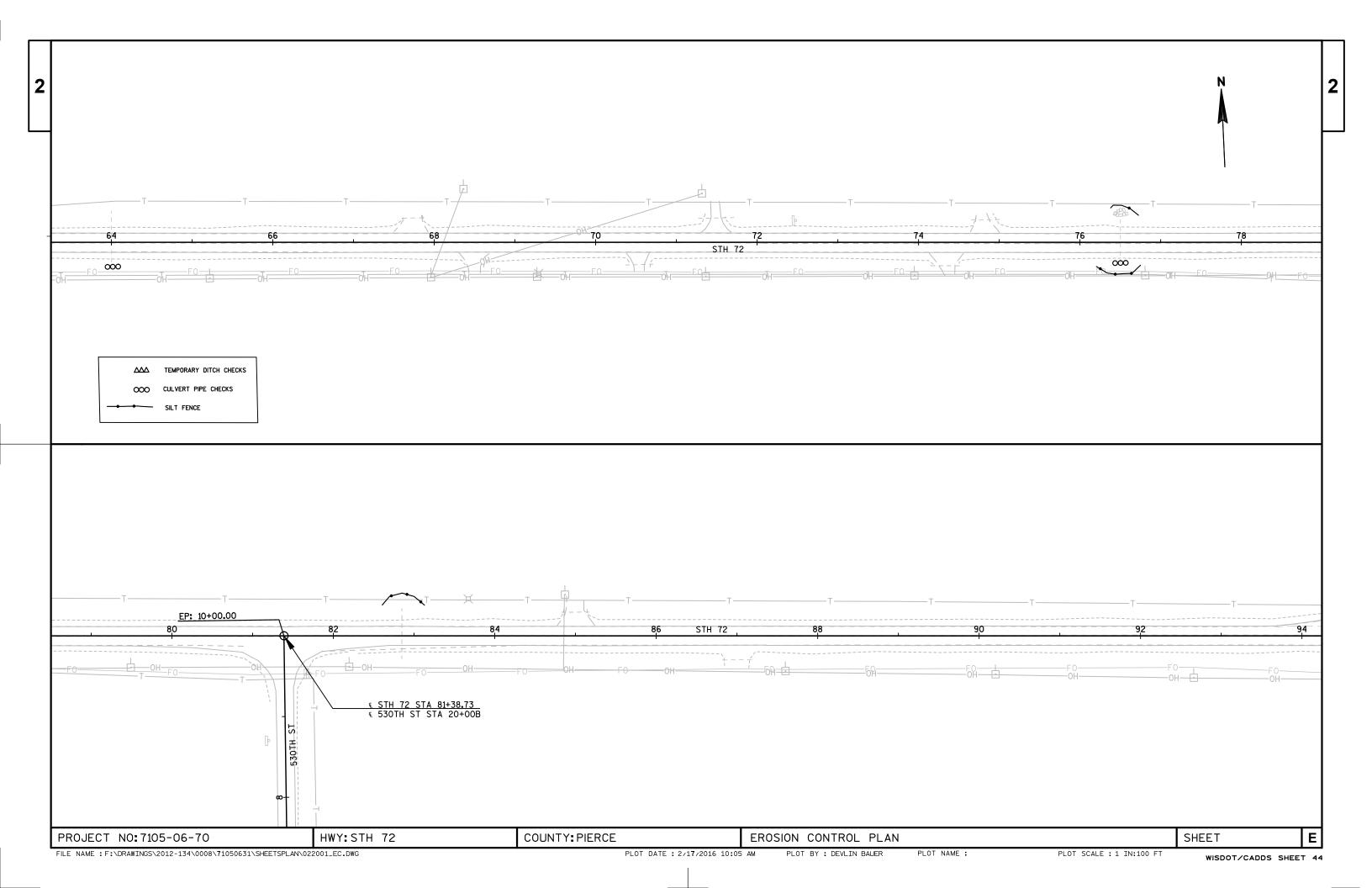
ROAD

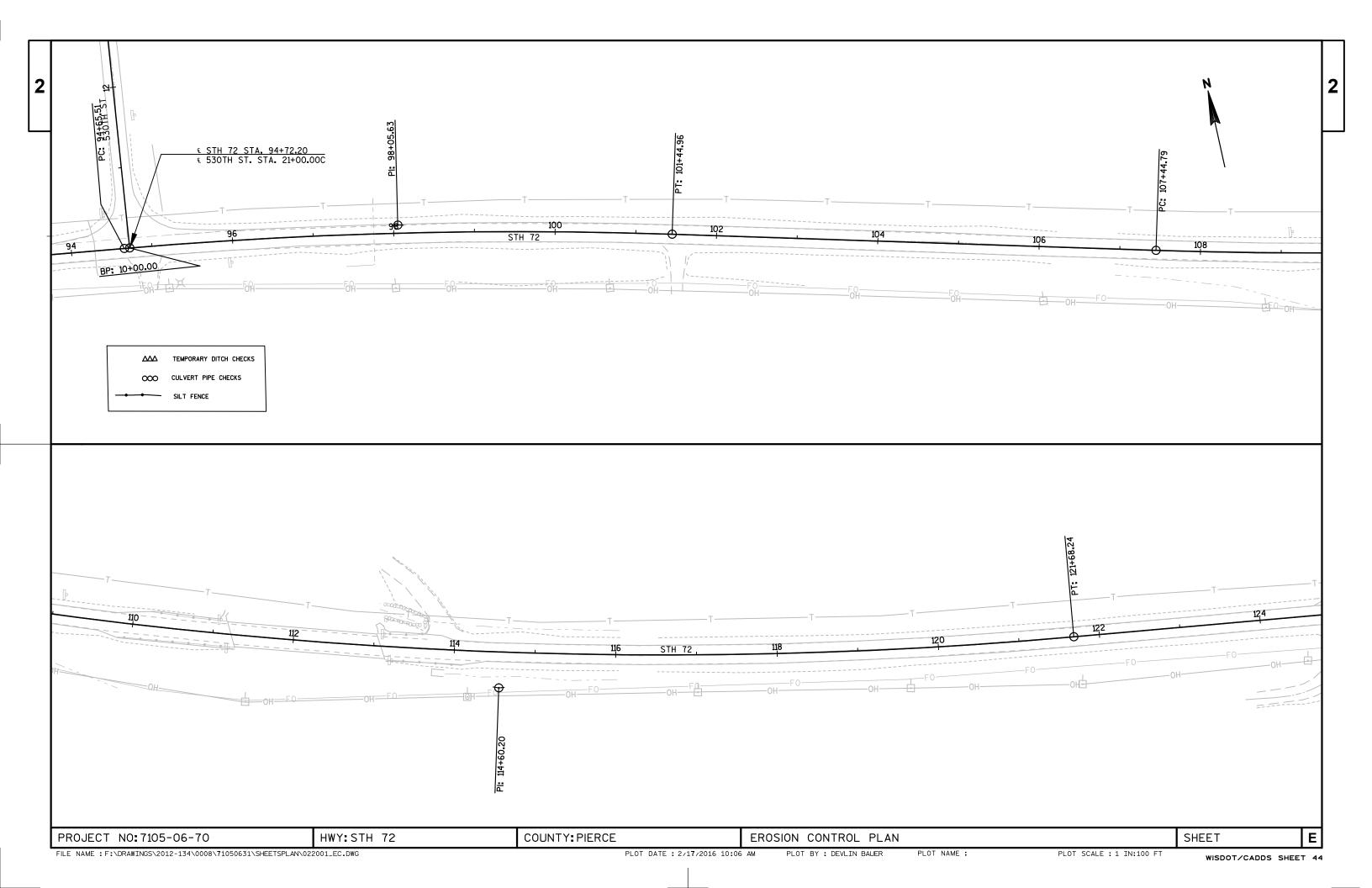
WORK

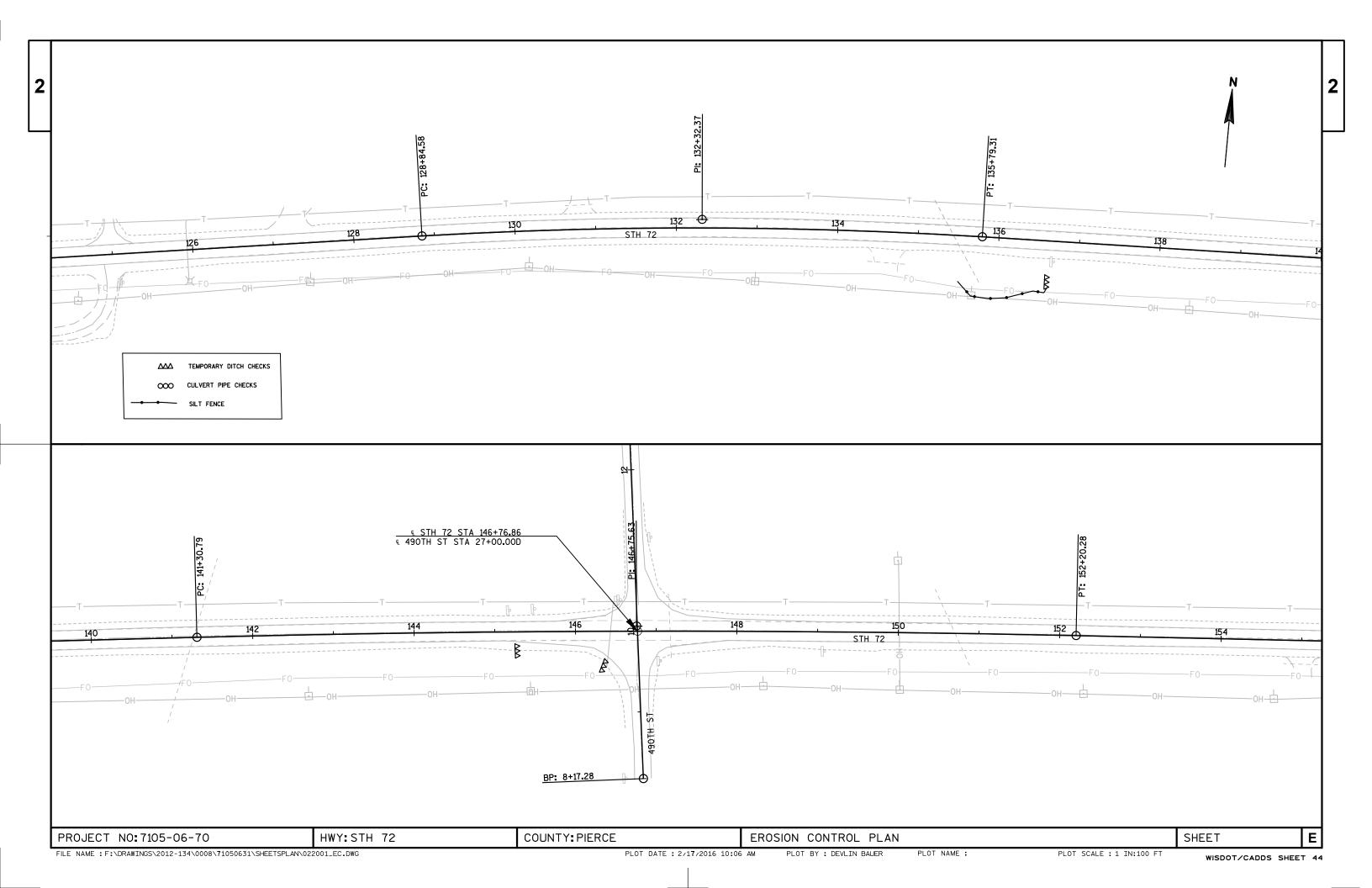
AHEAD

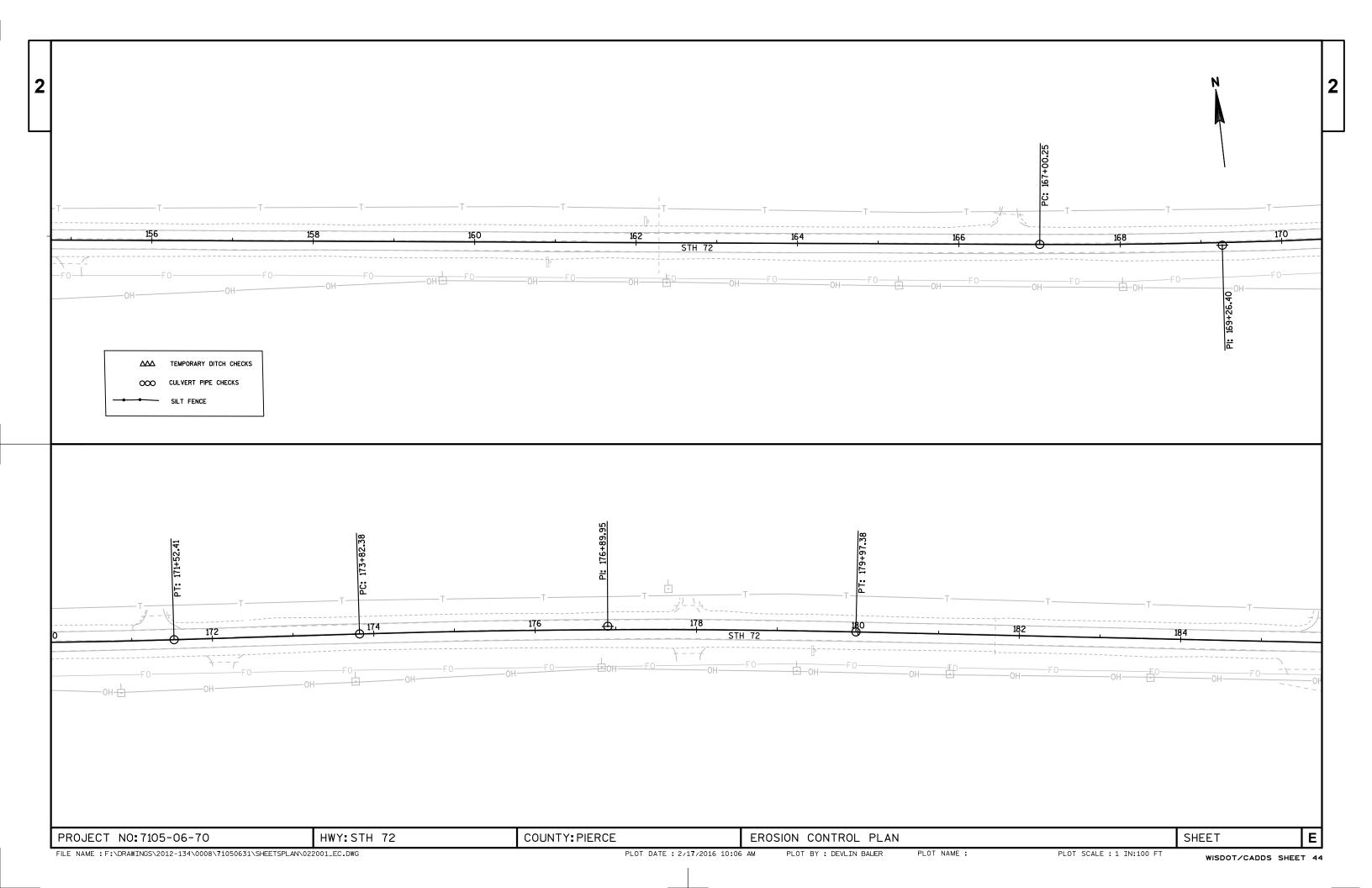
W20-1A

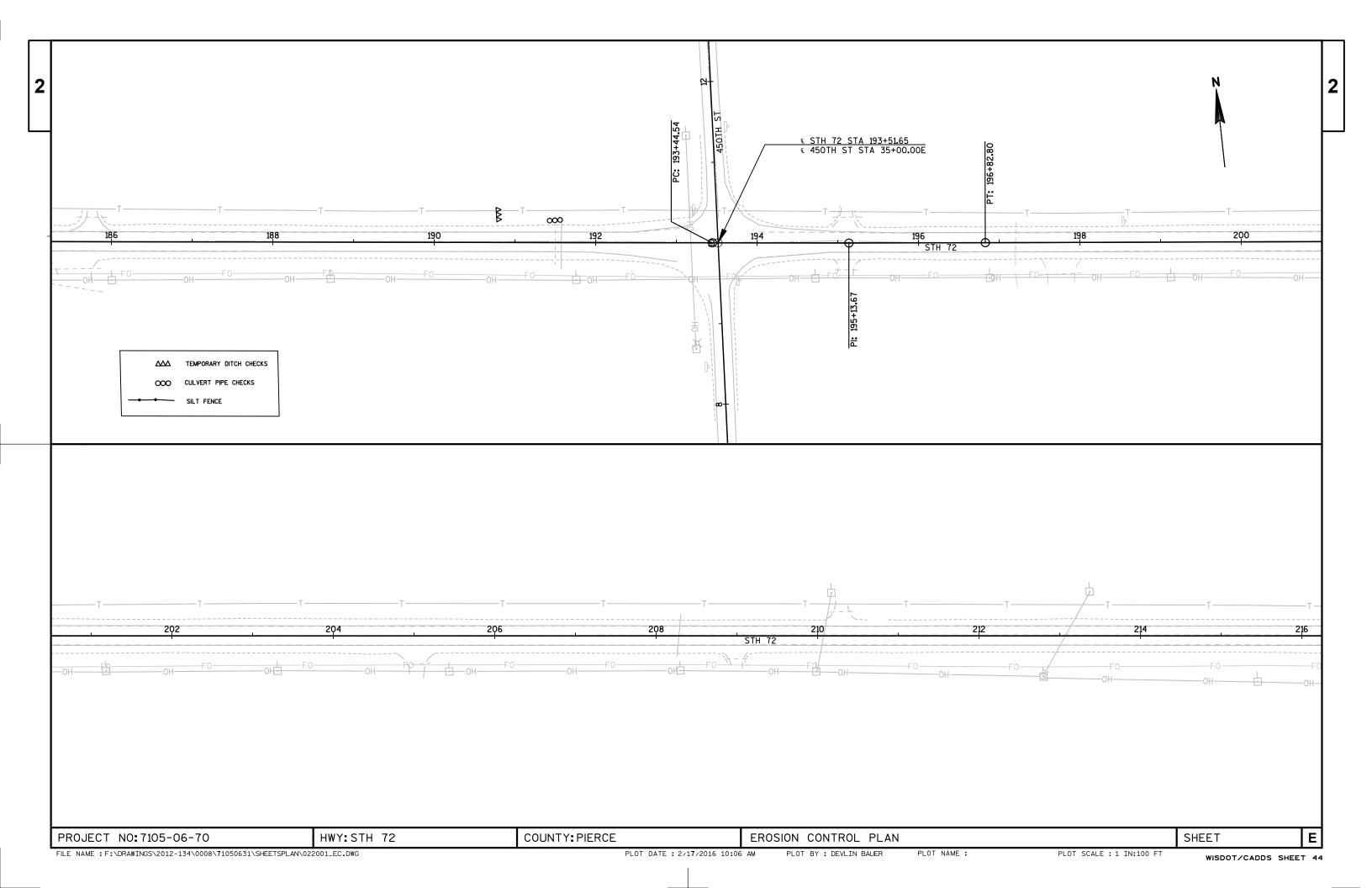


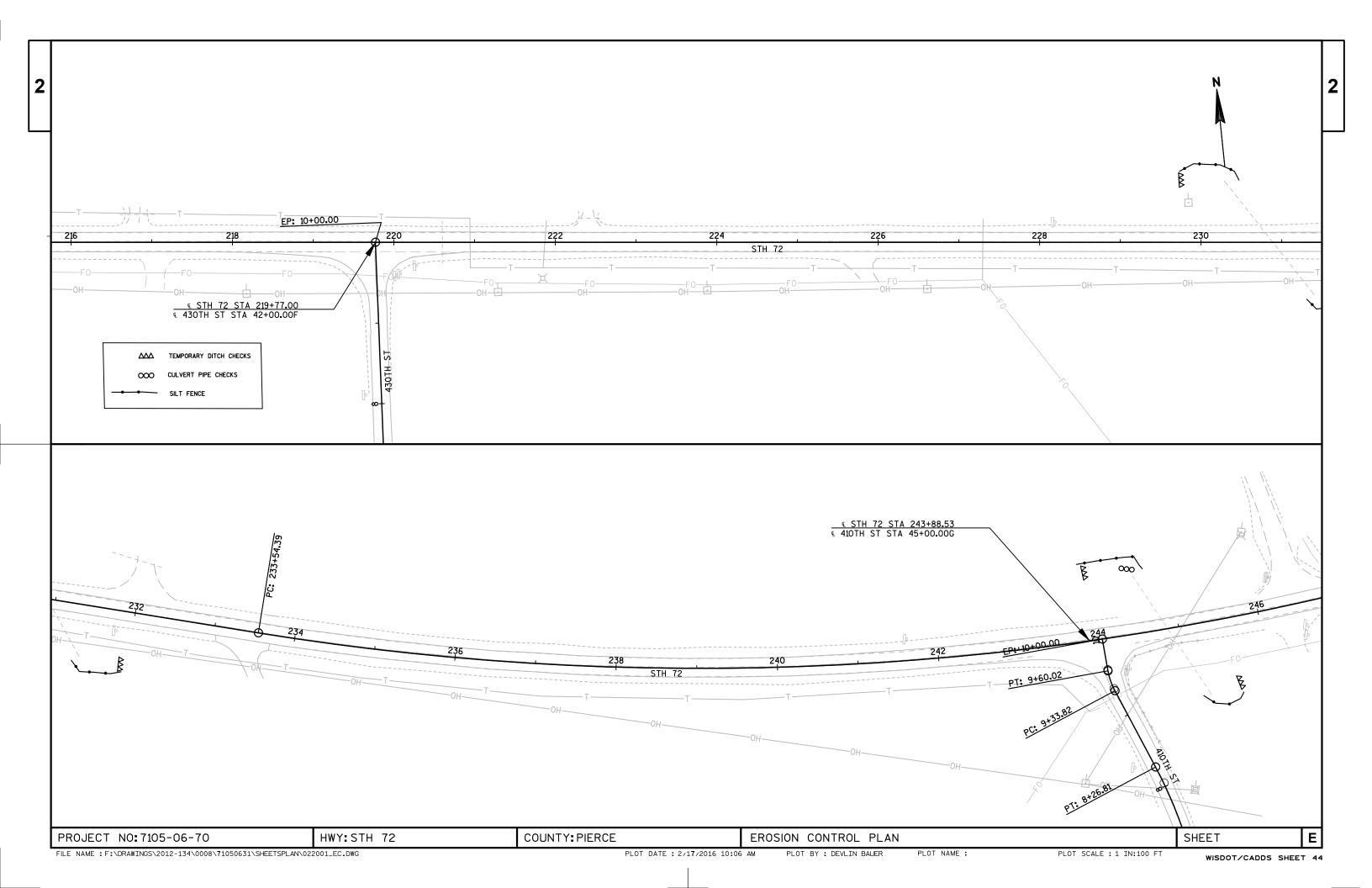


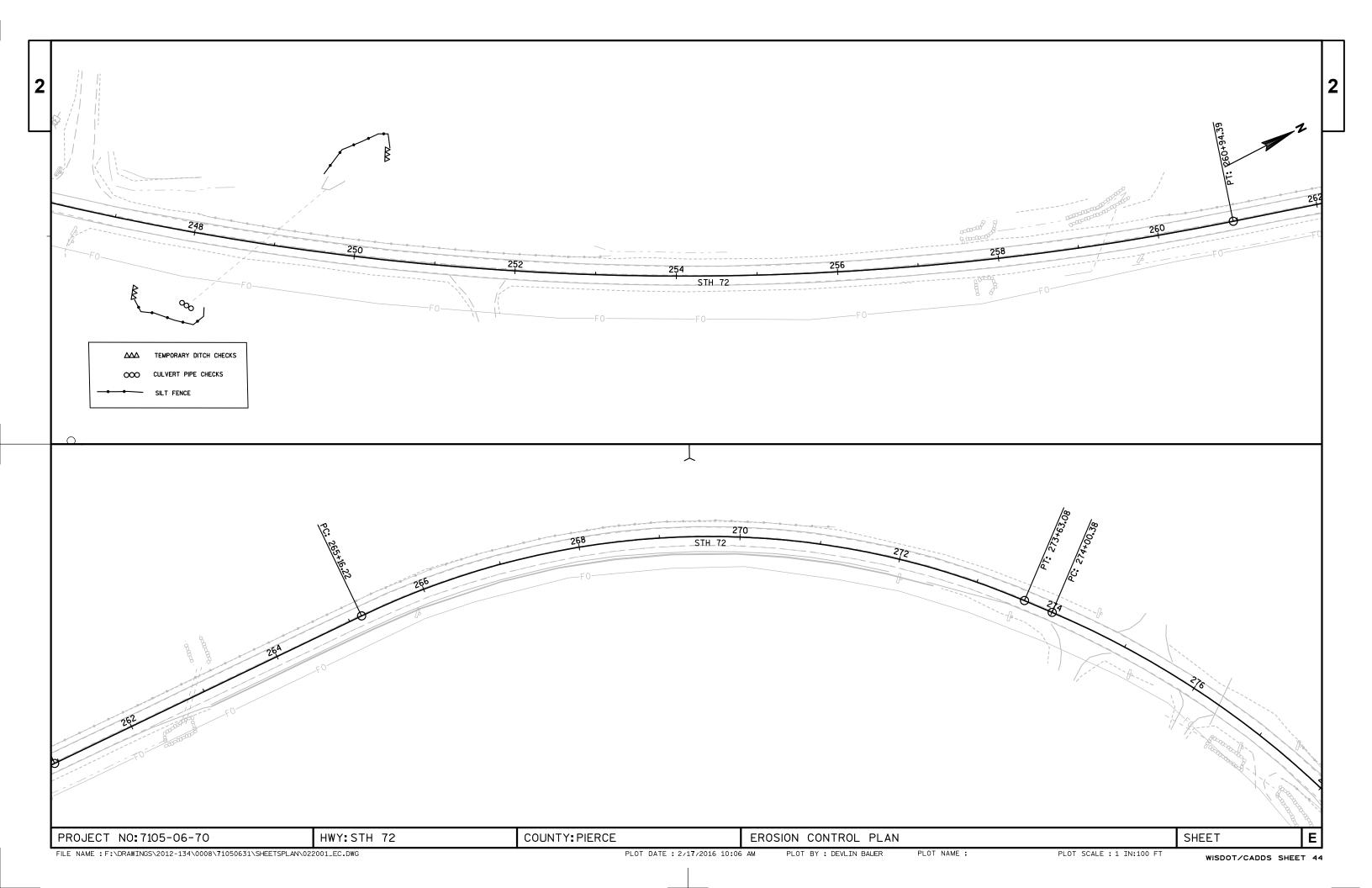


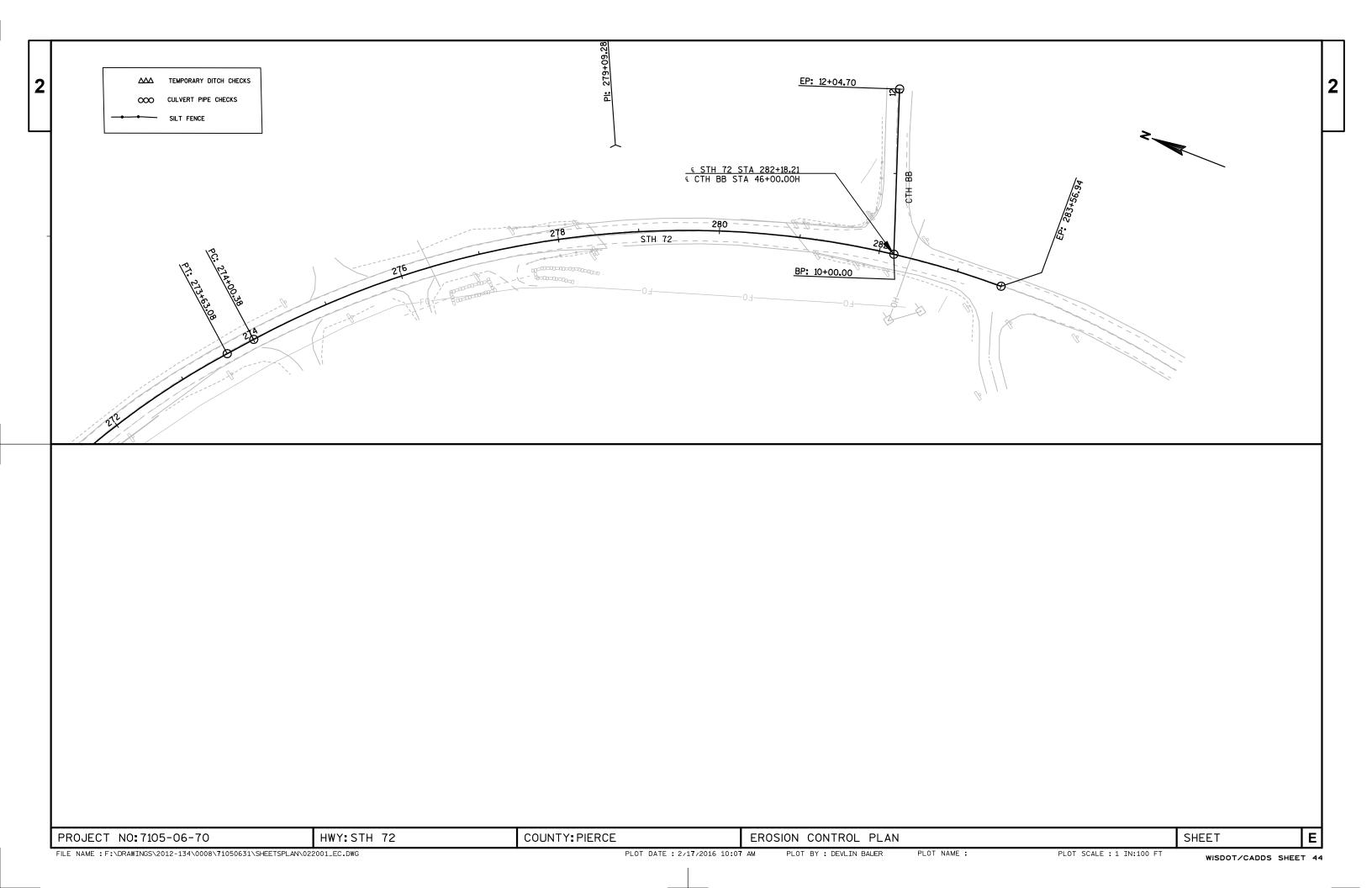


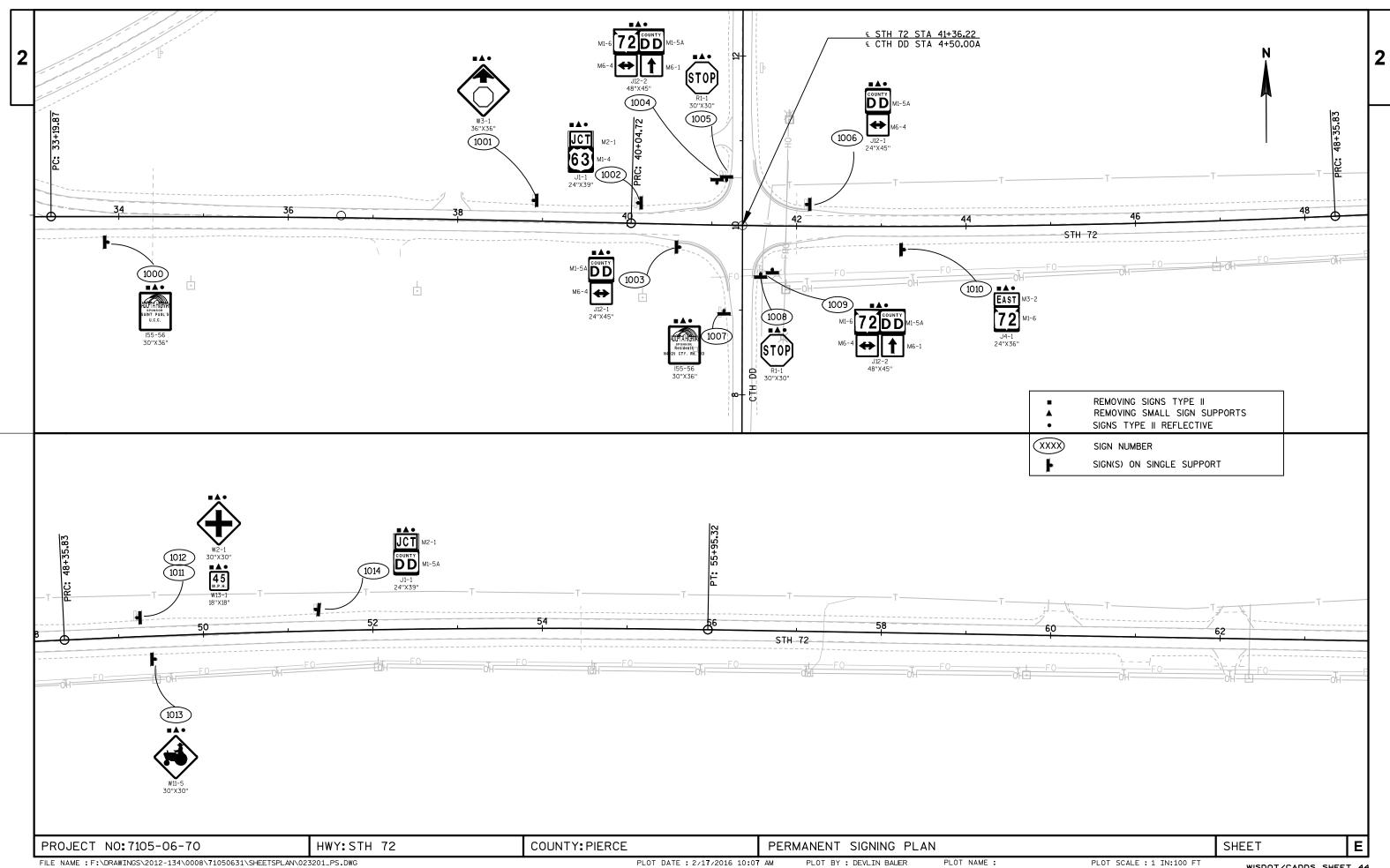


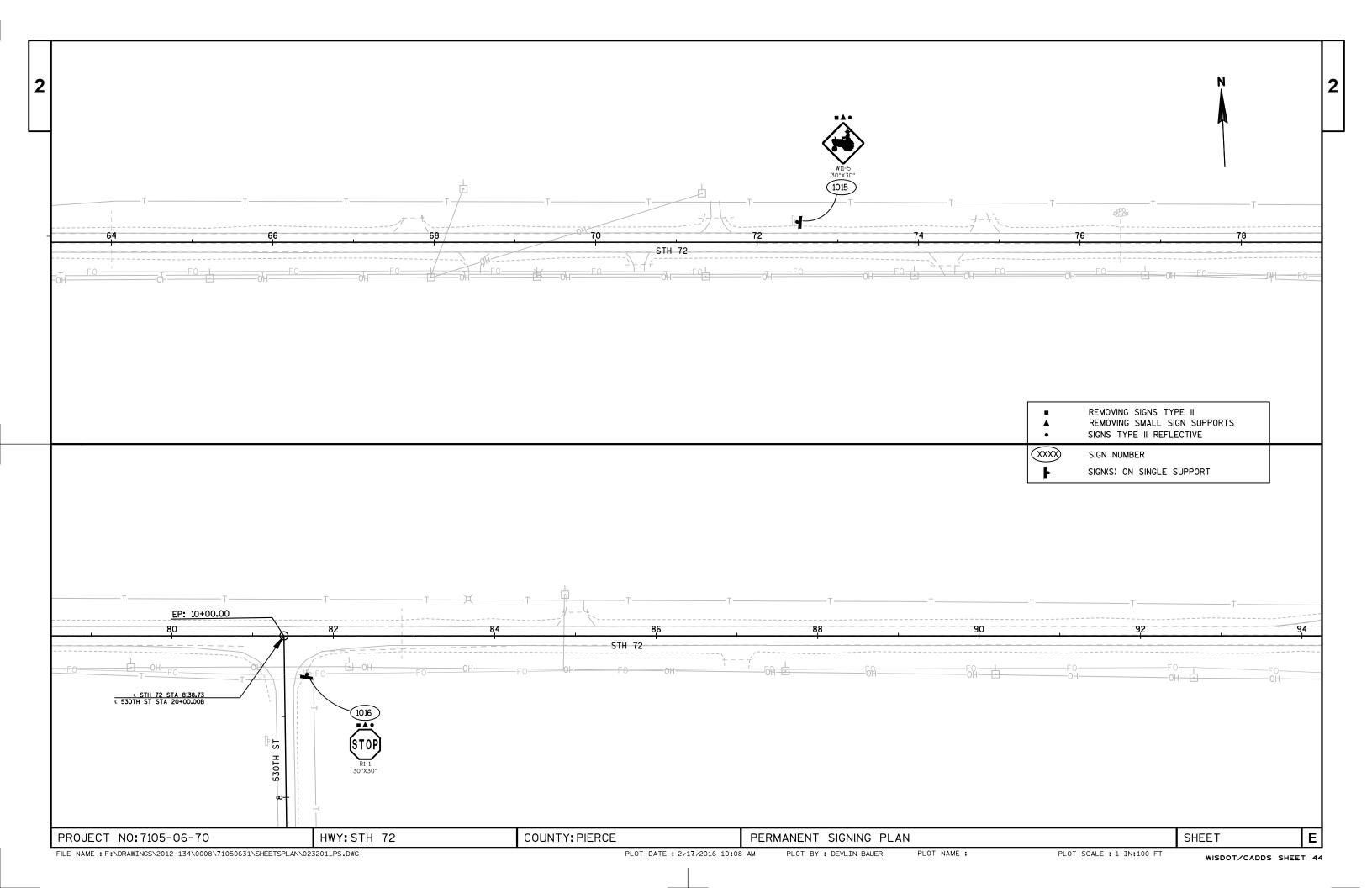


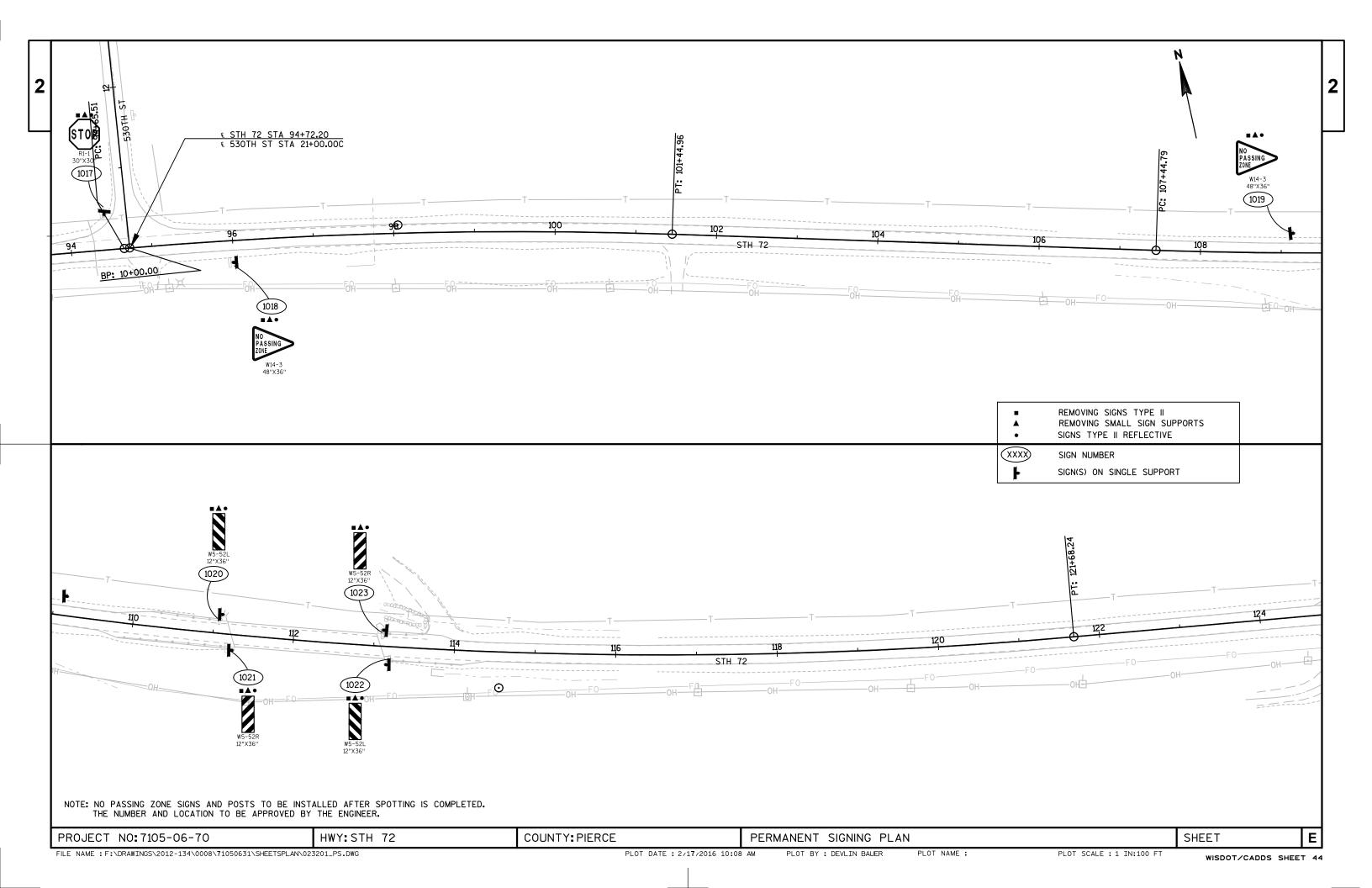


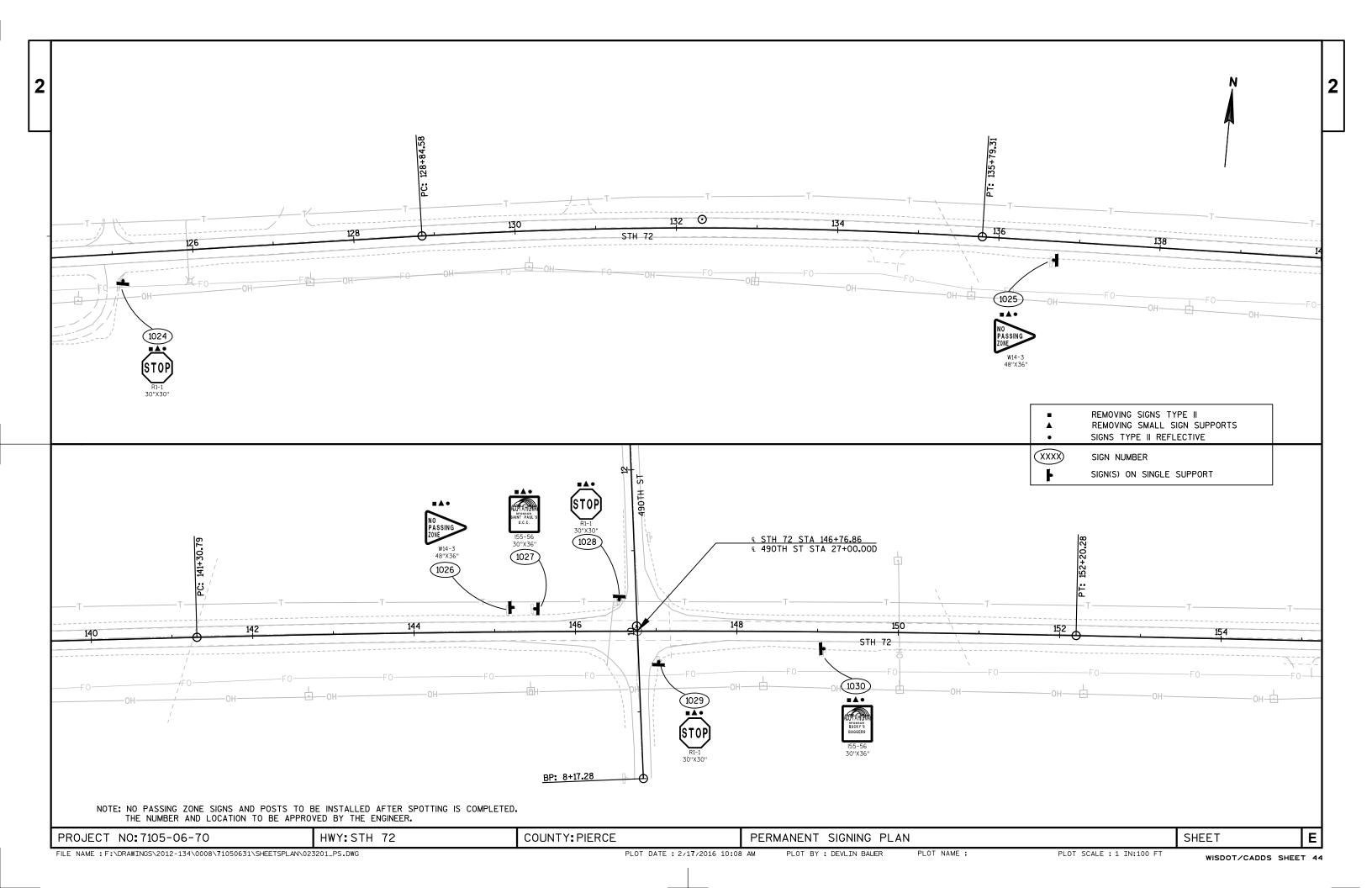


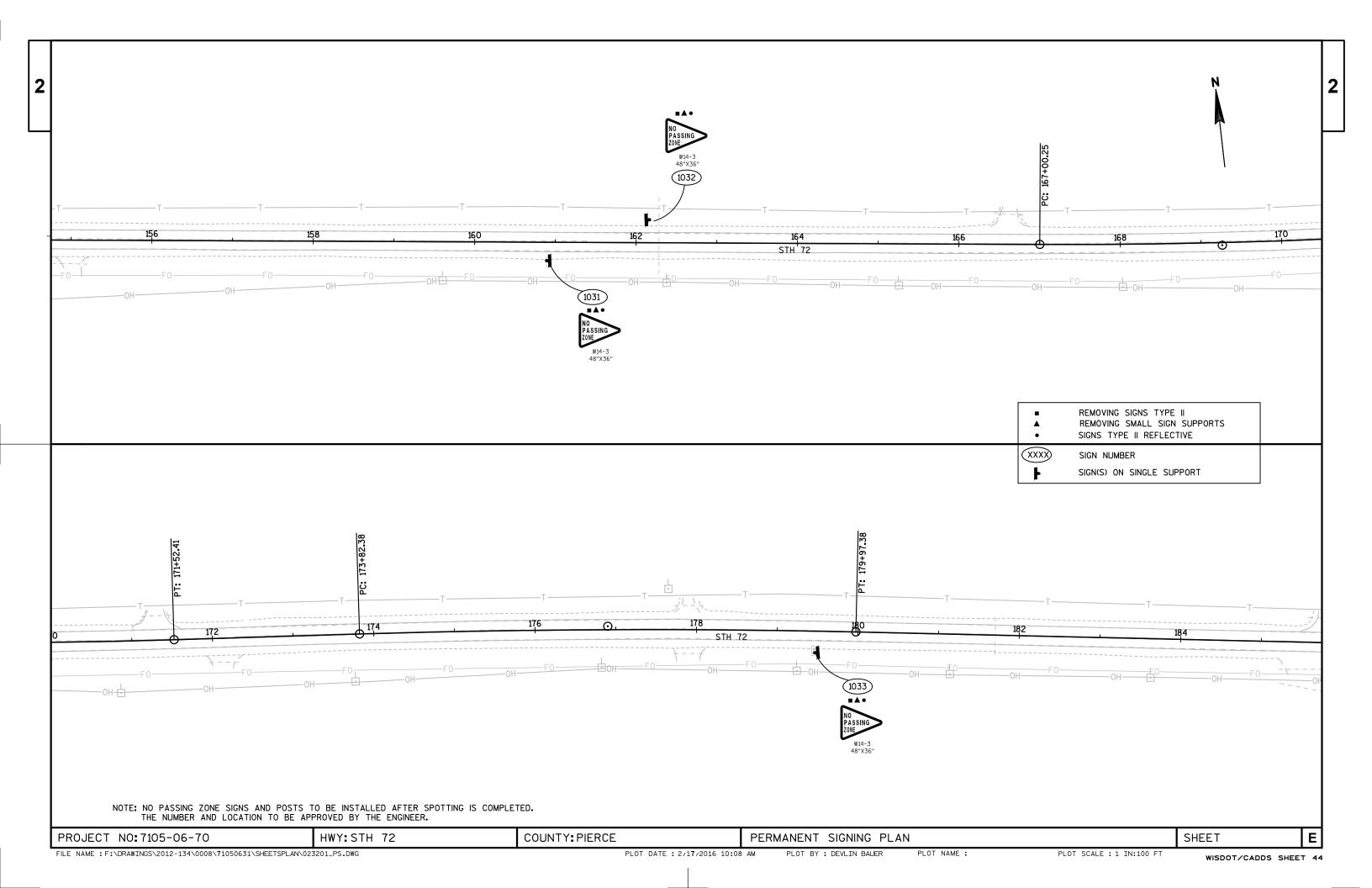


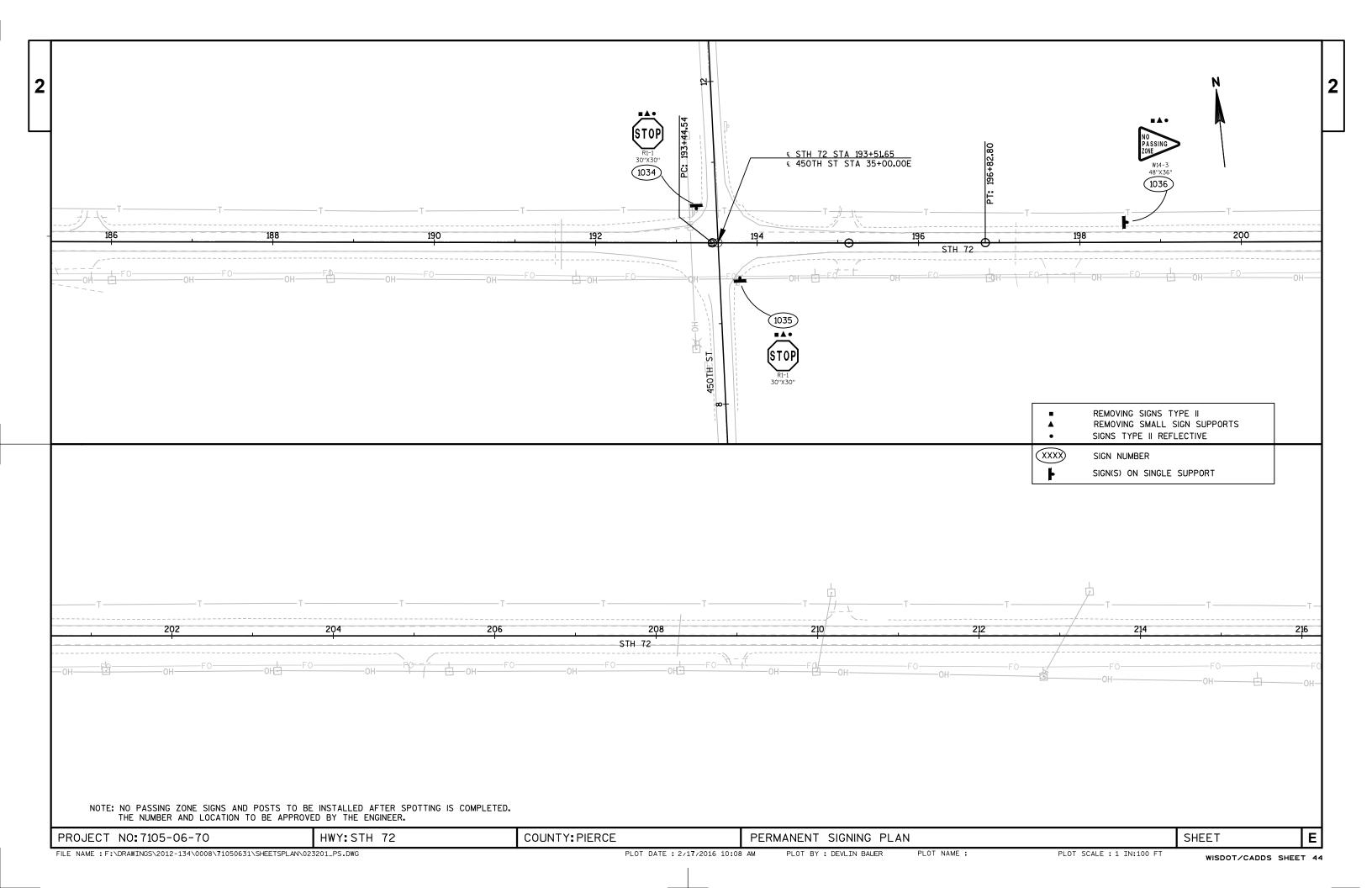


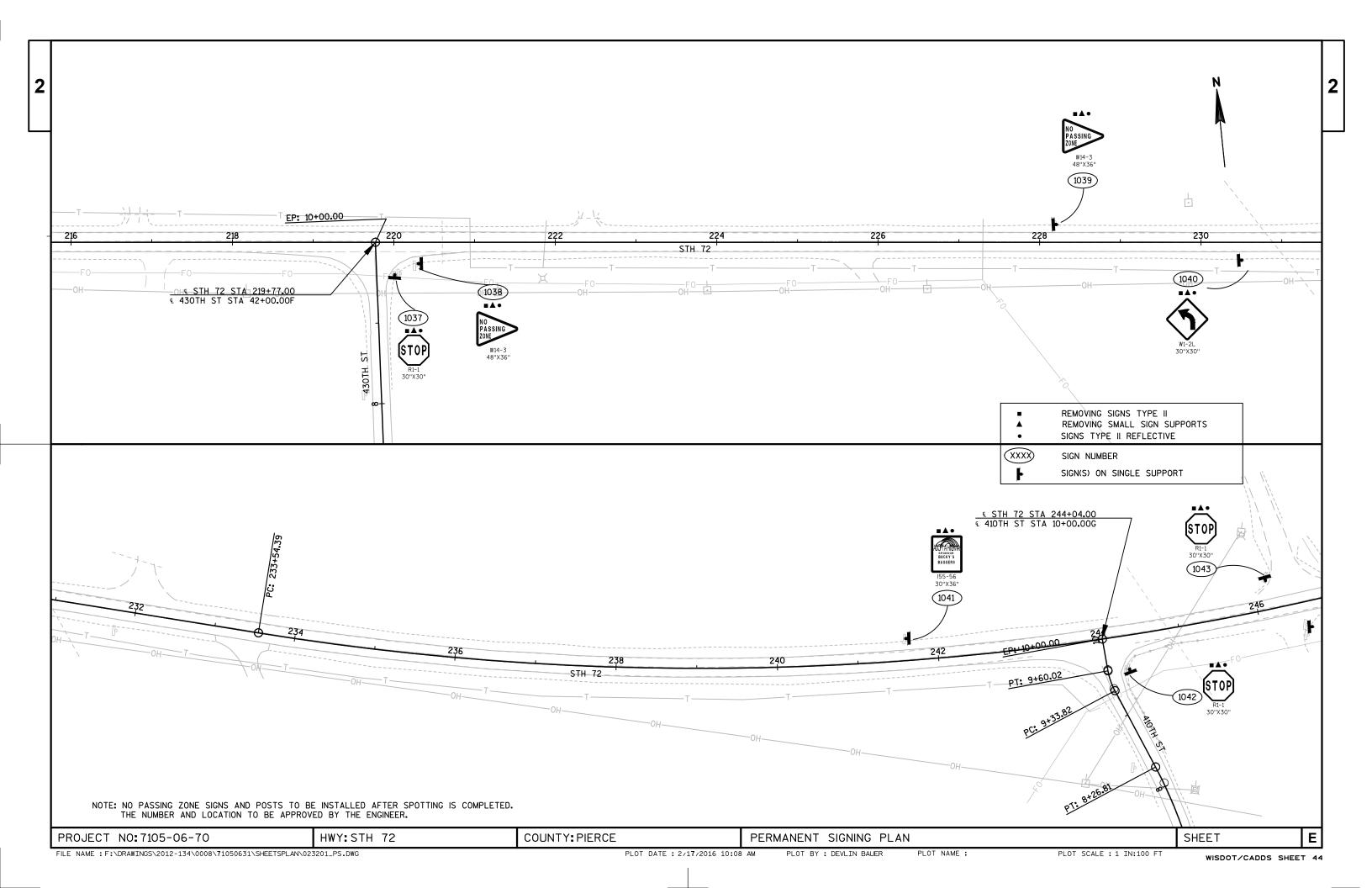


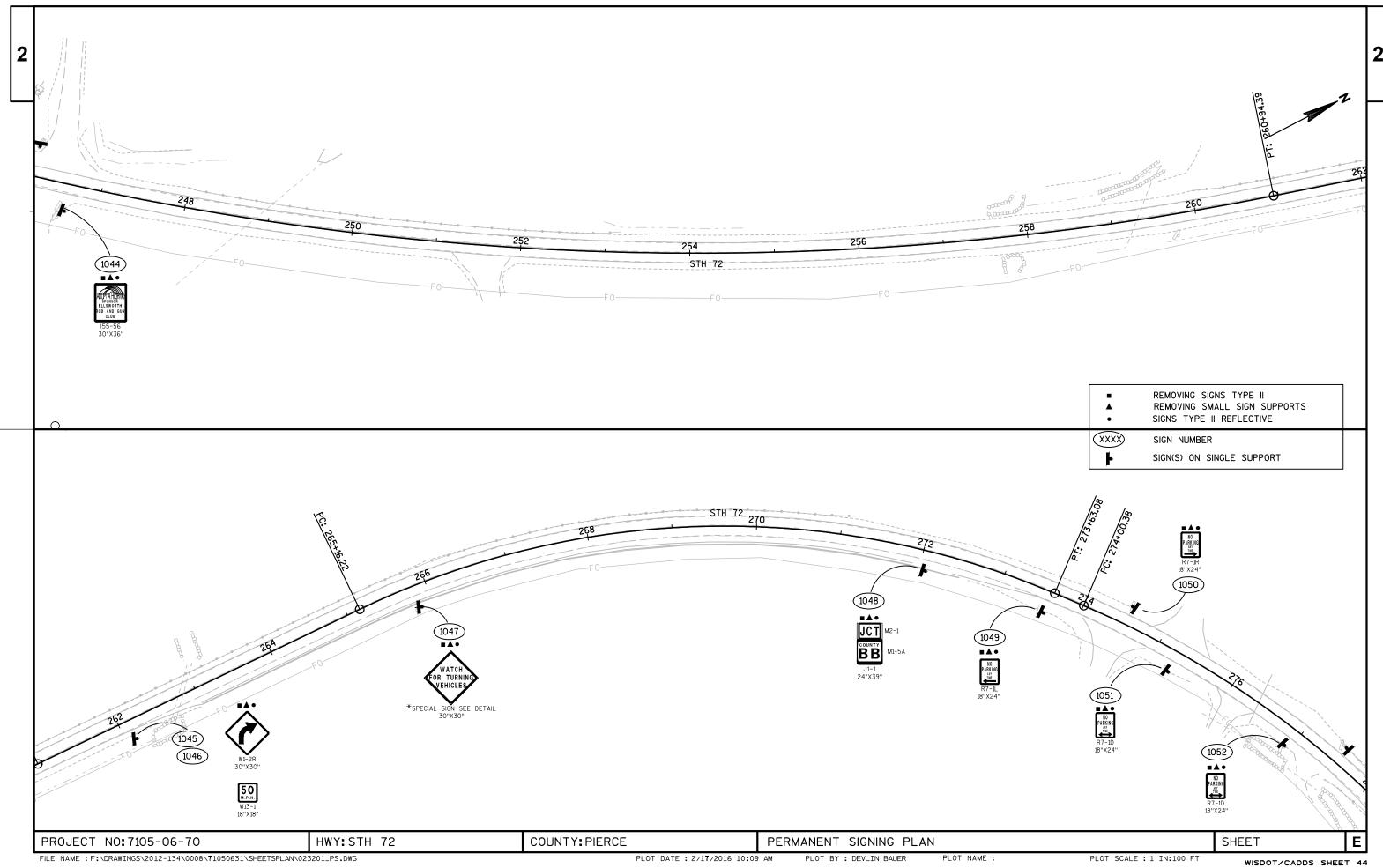


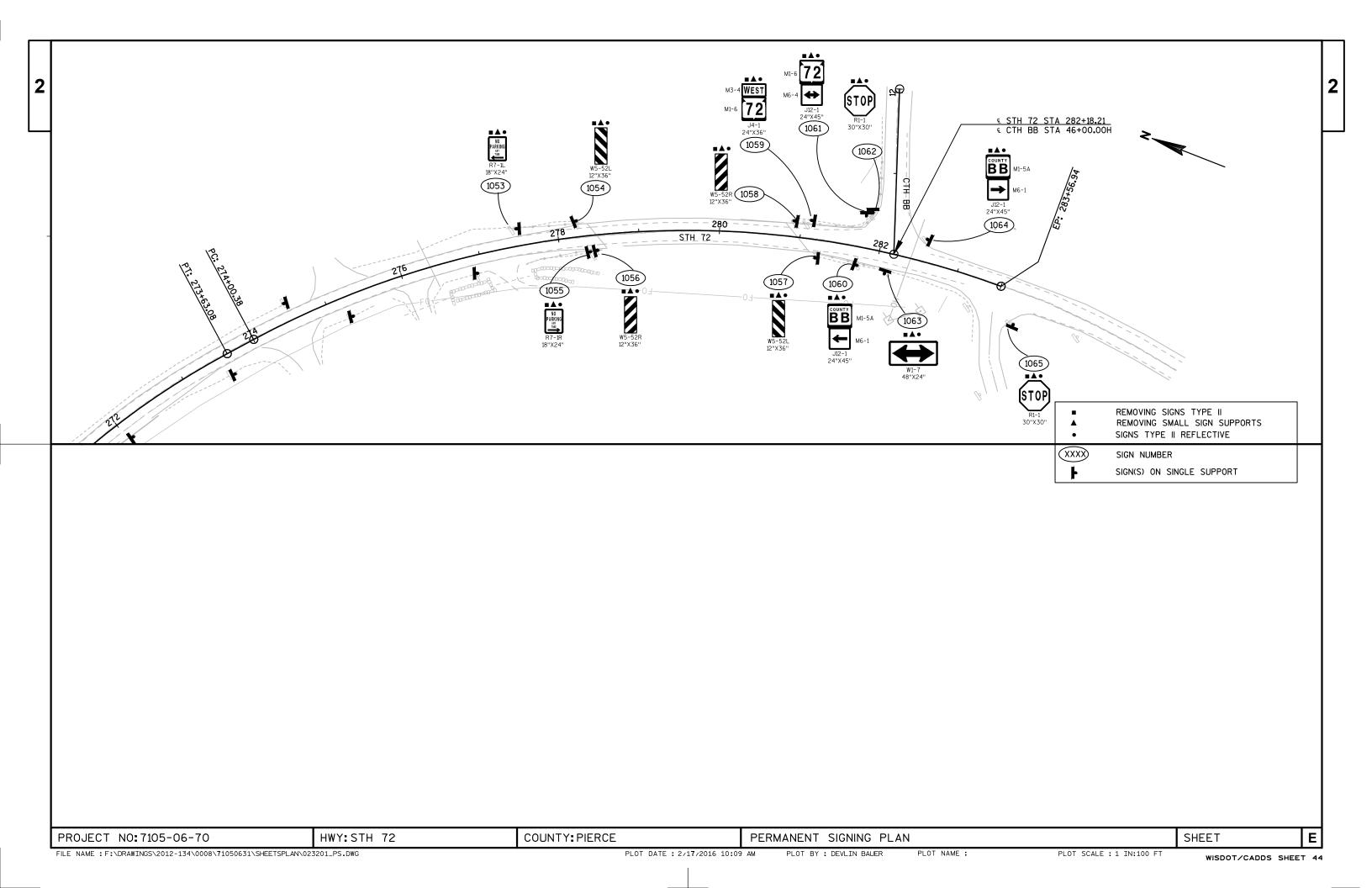


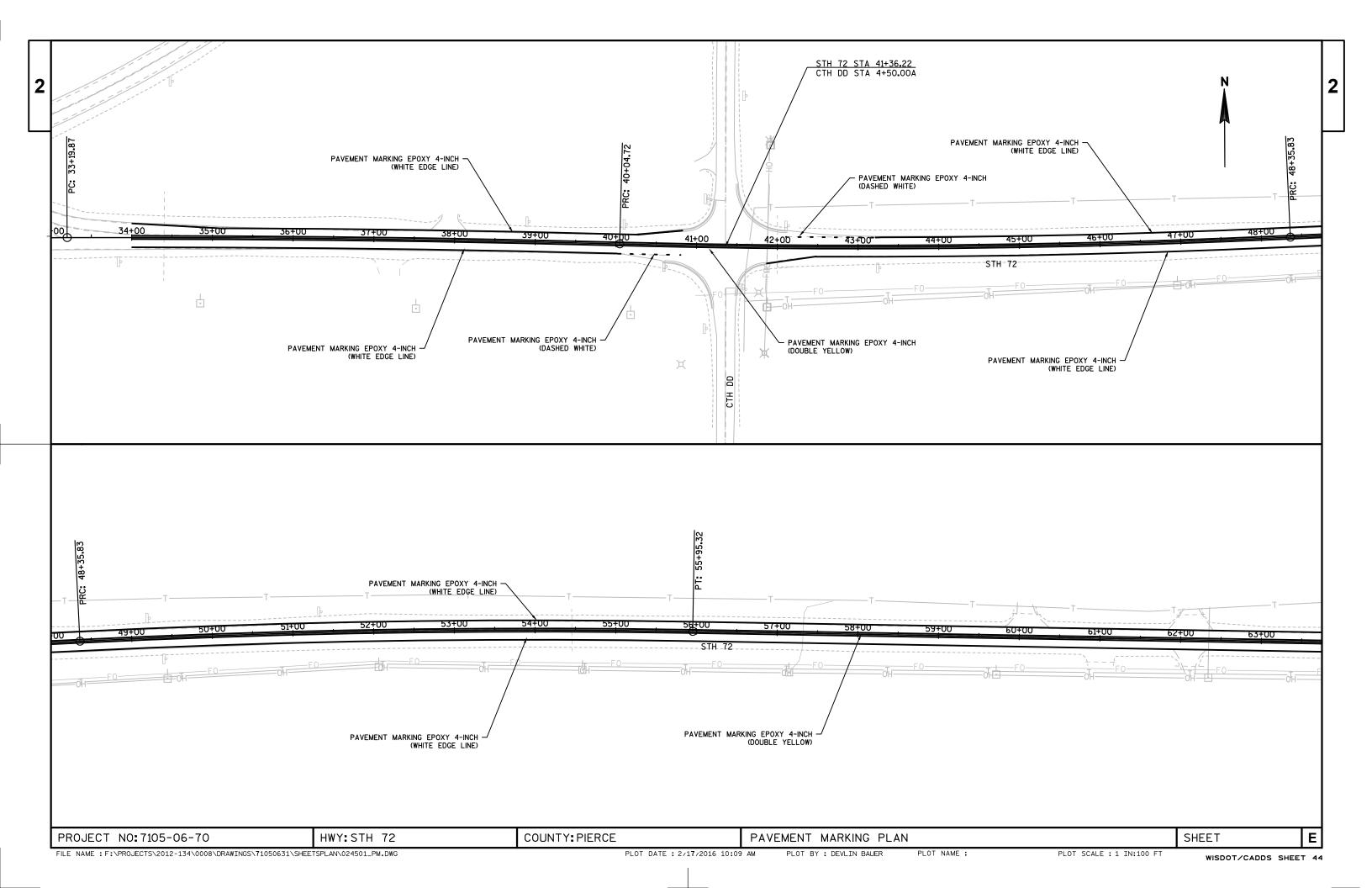


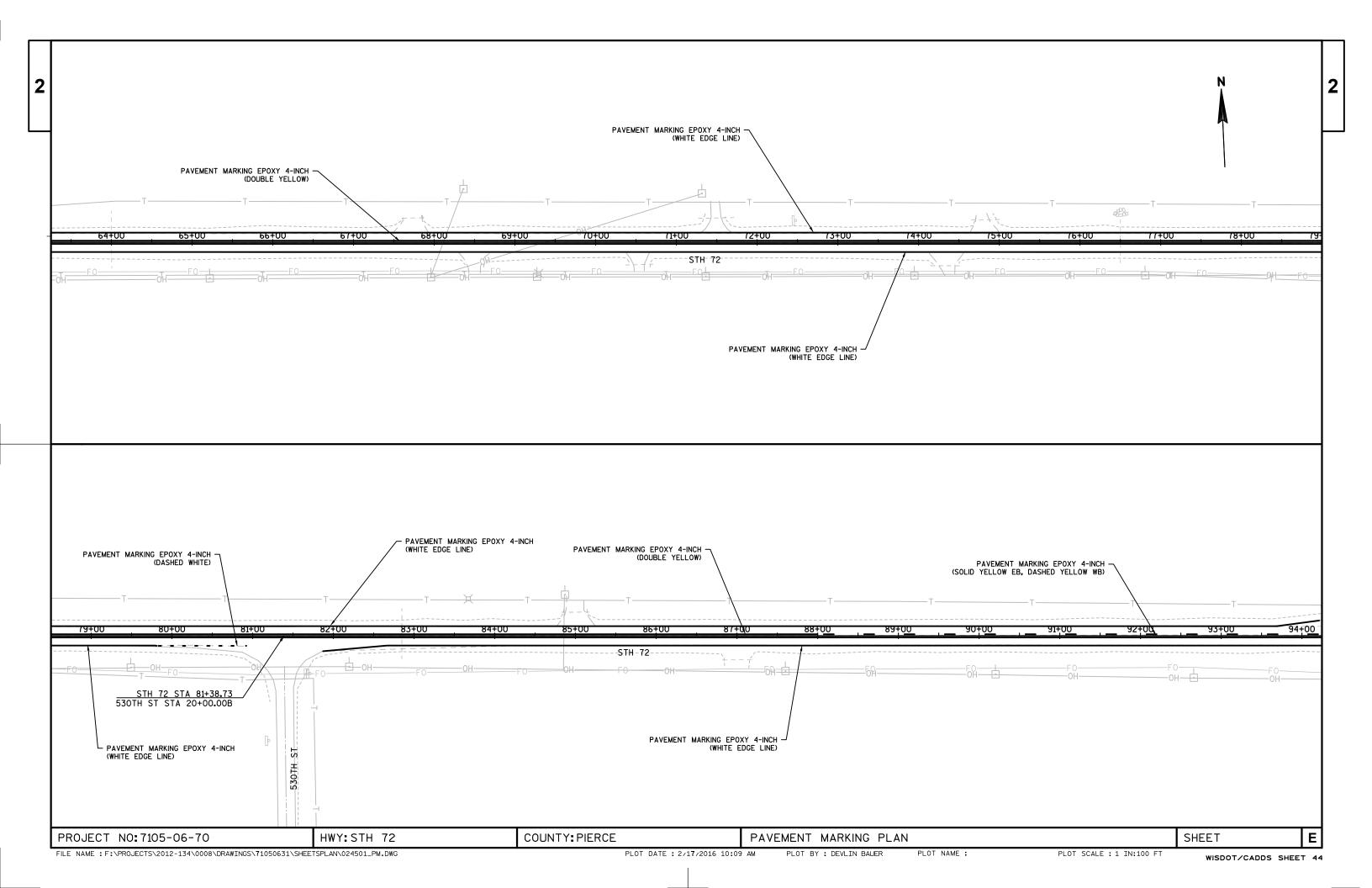


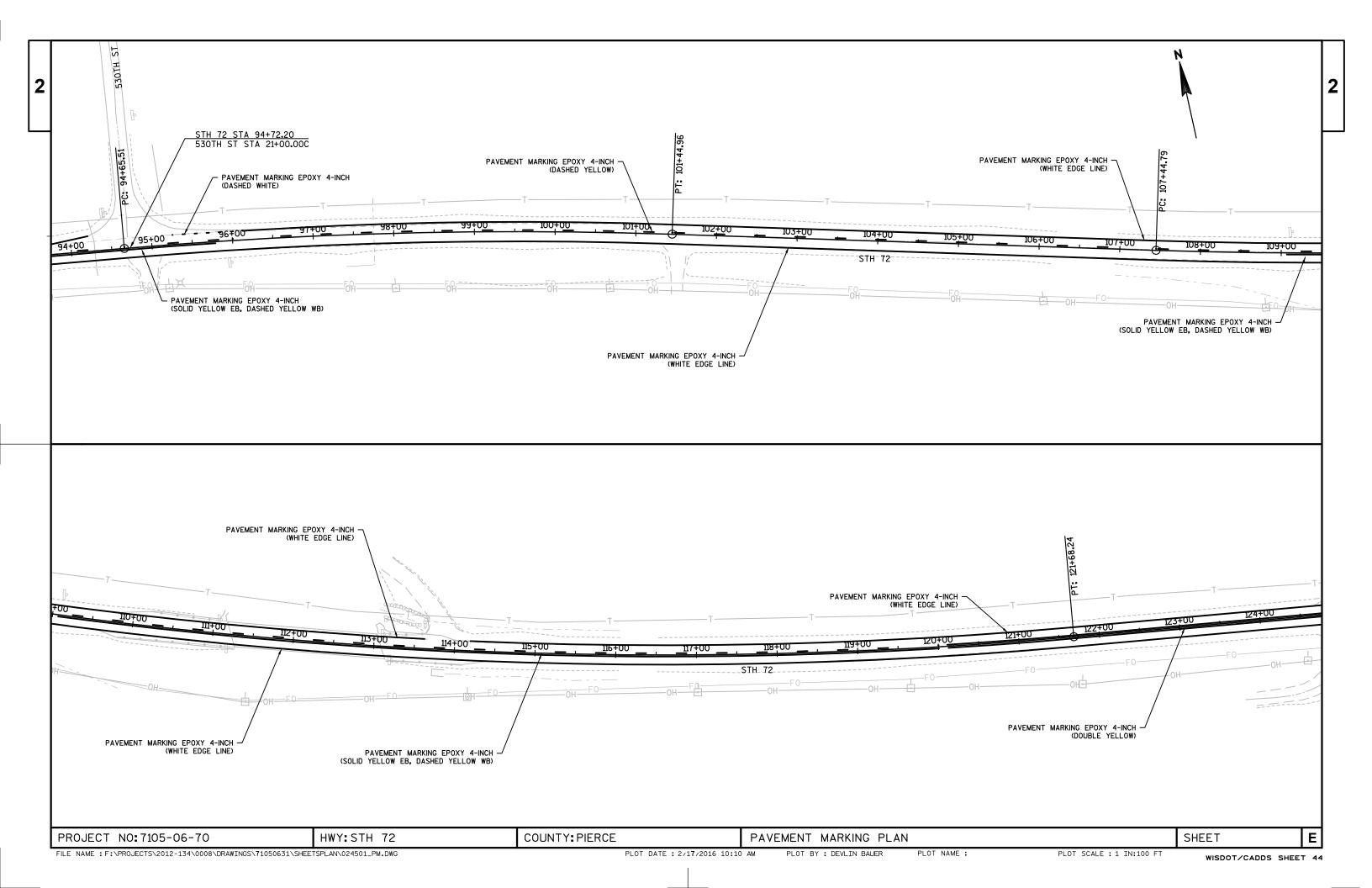


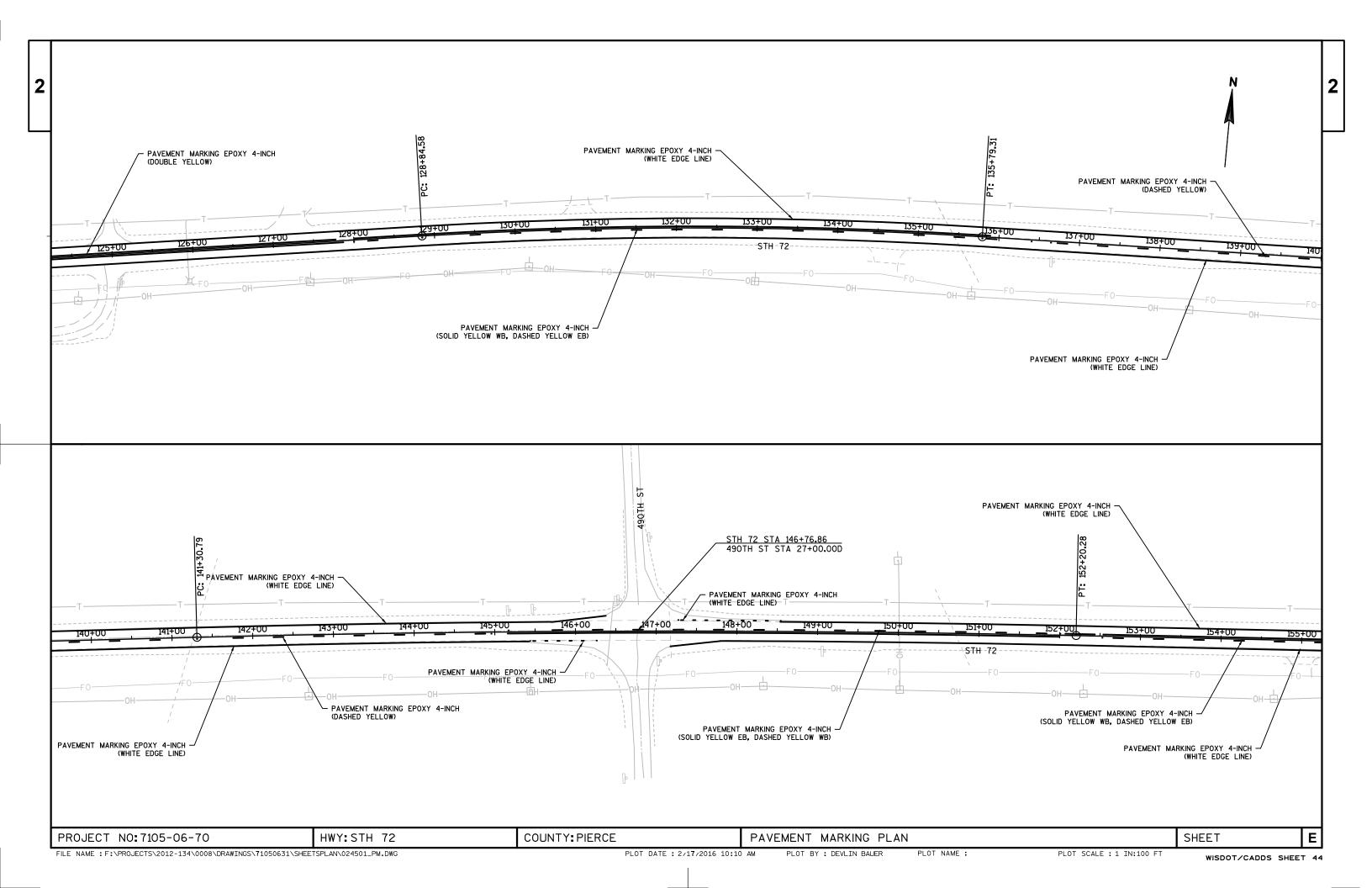


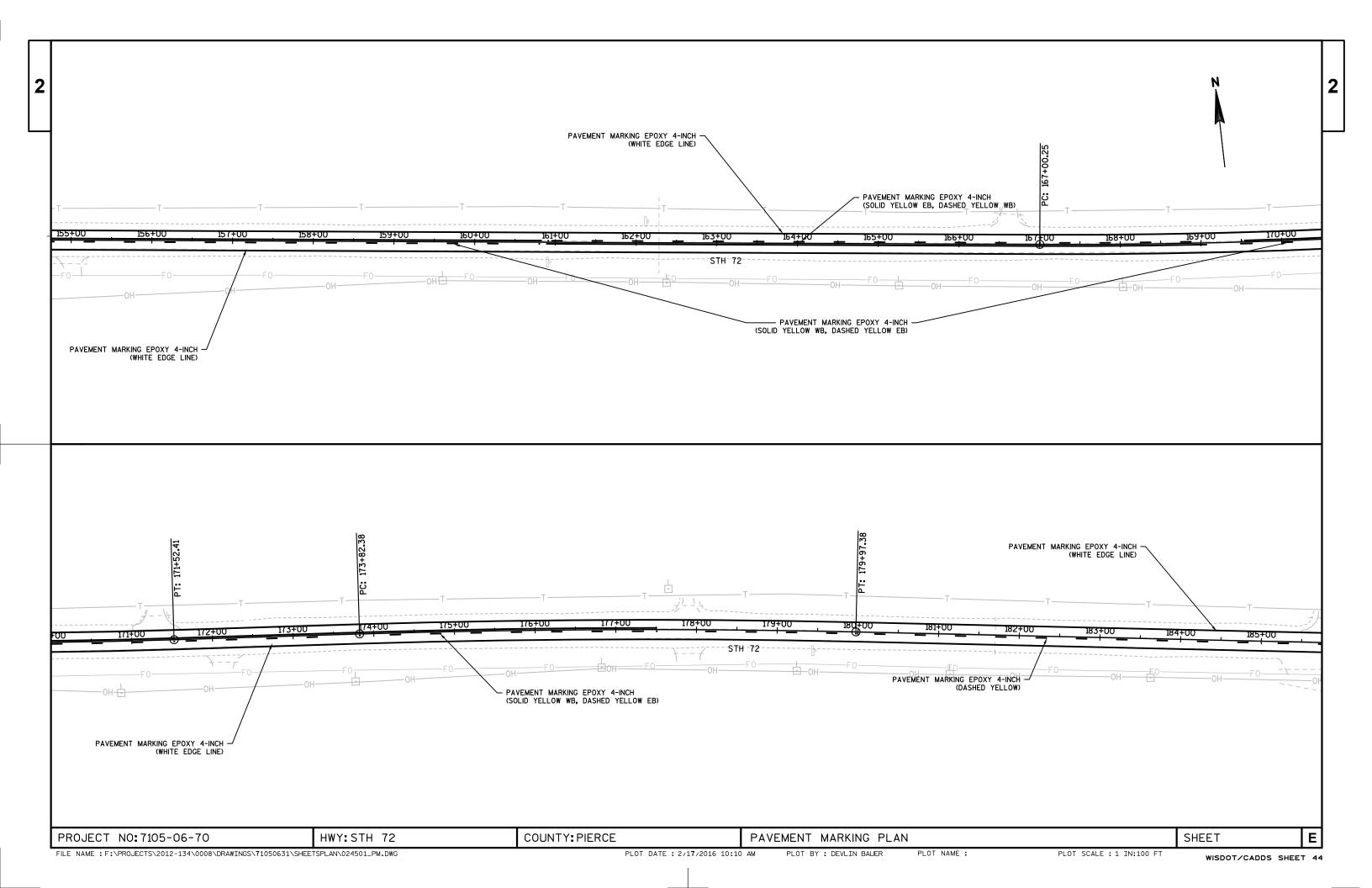


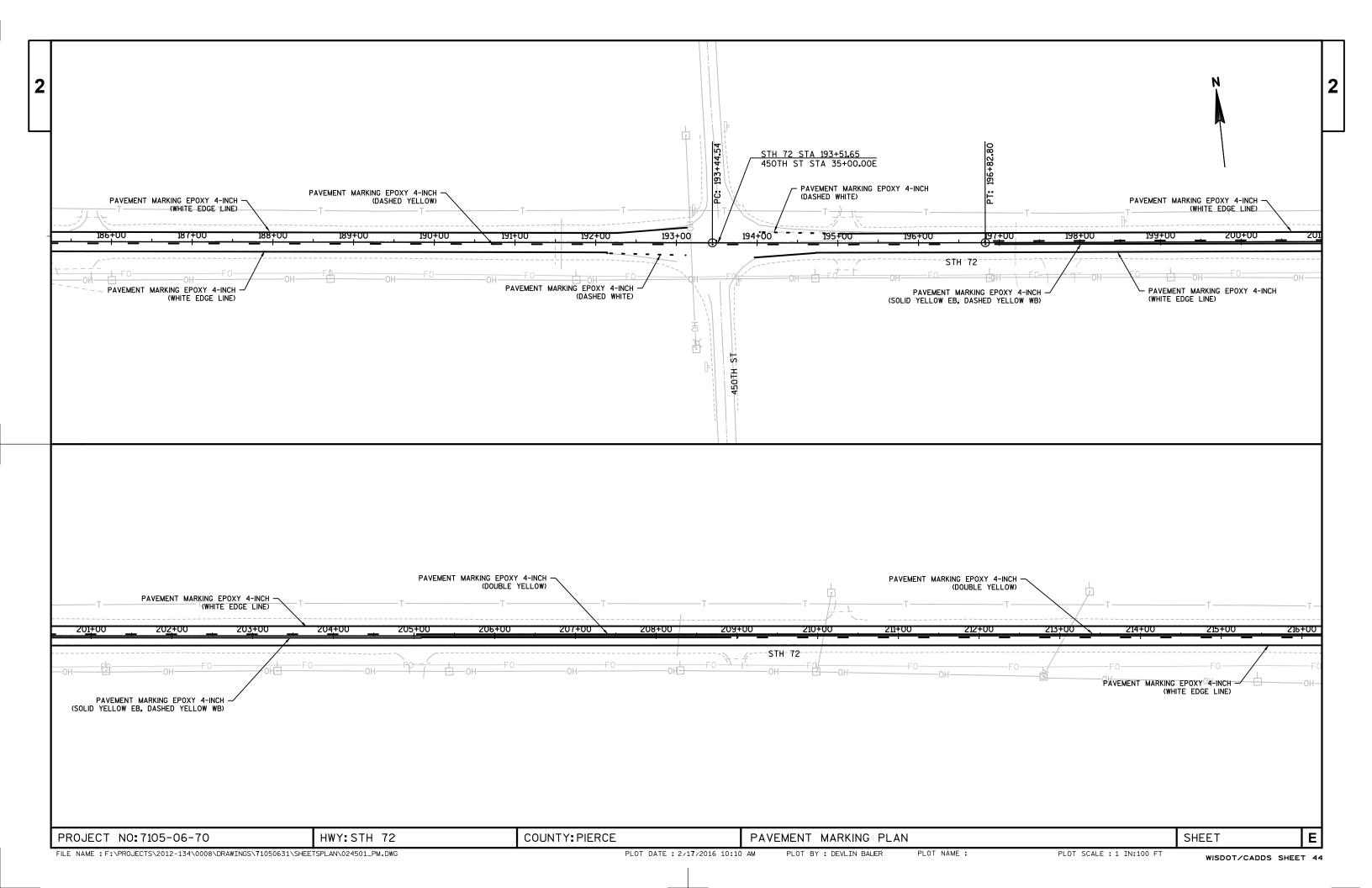


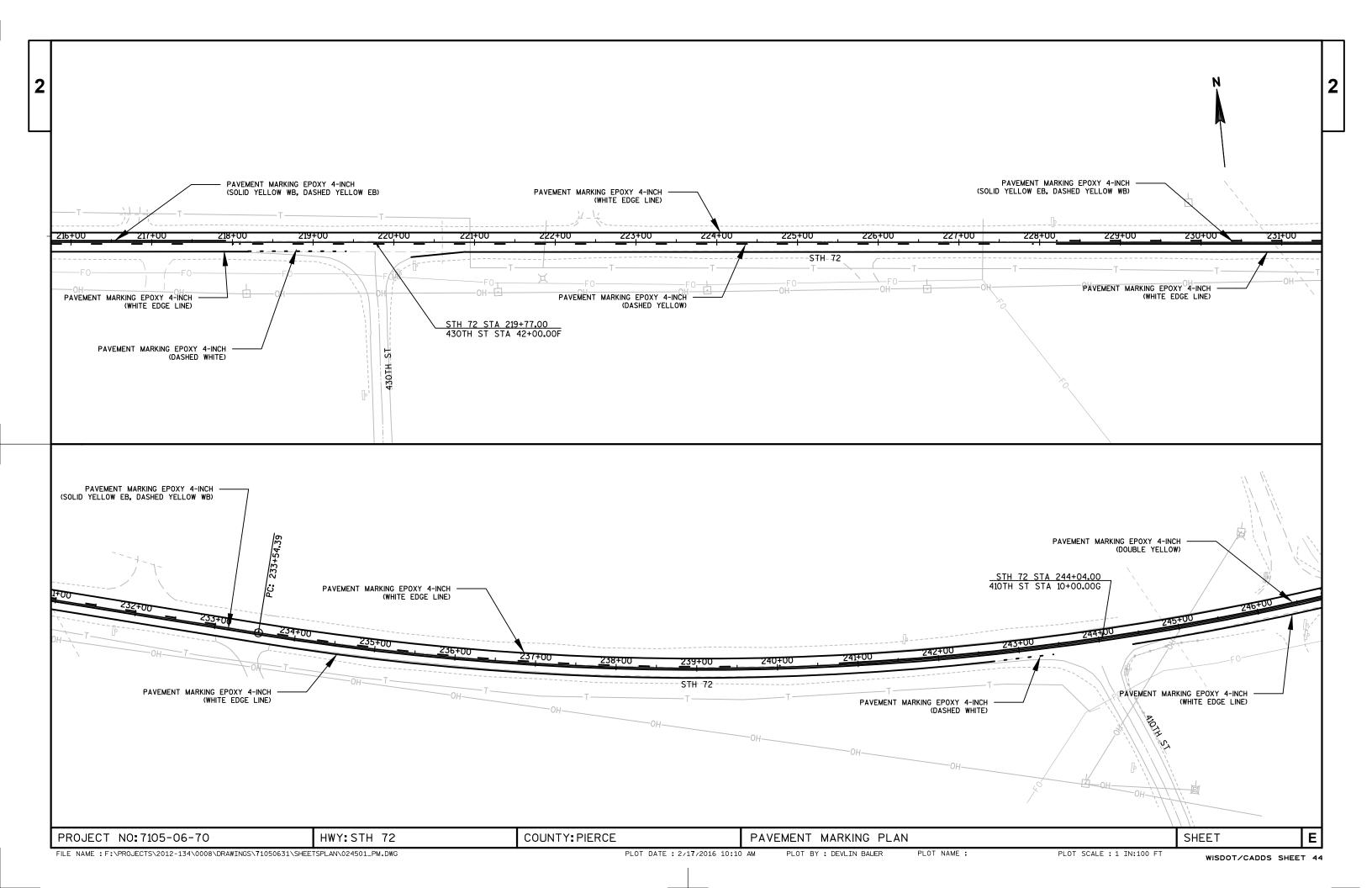


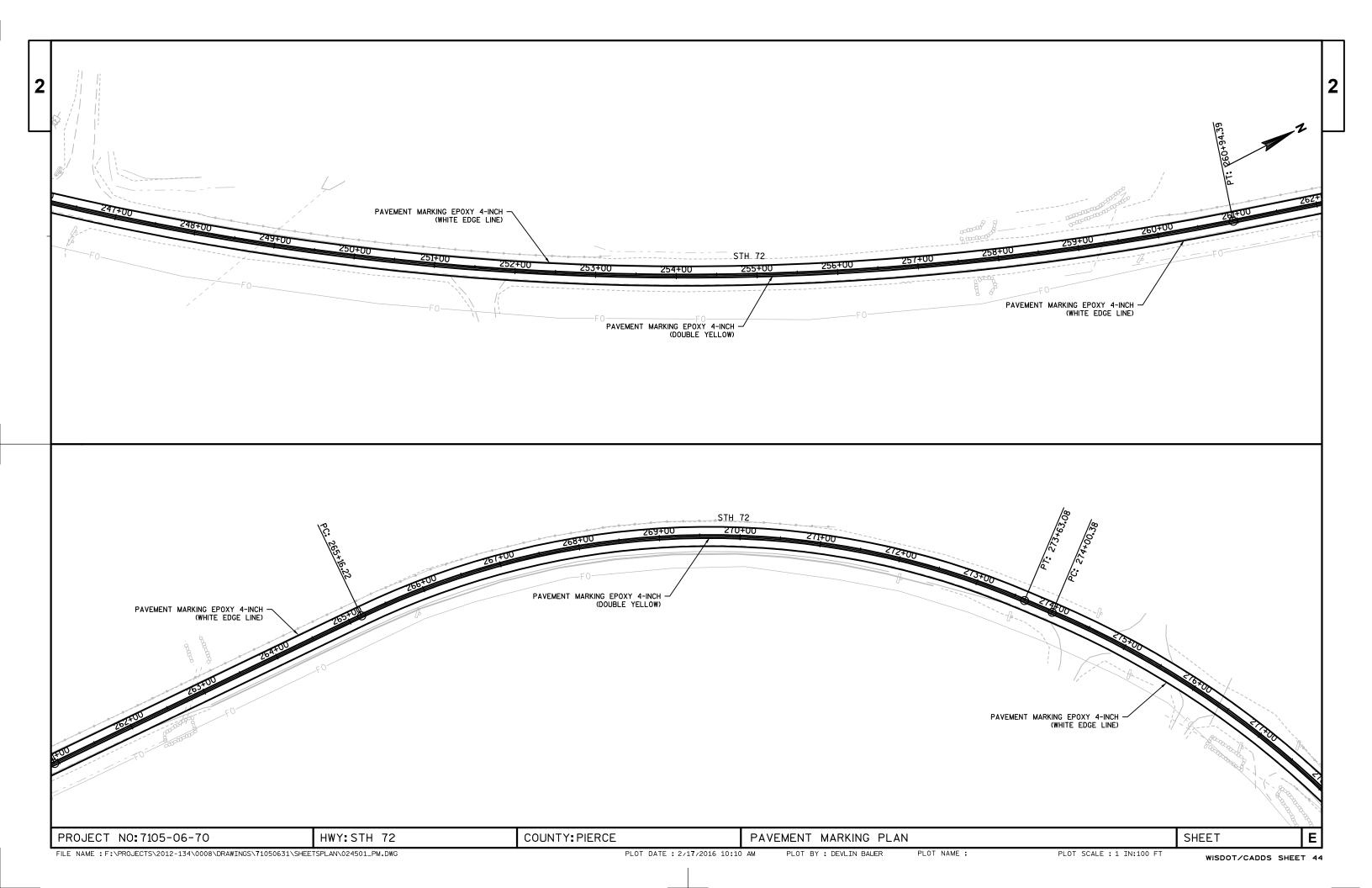


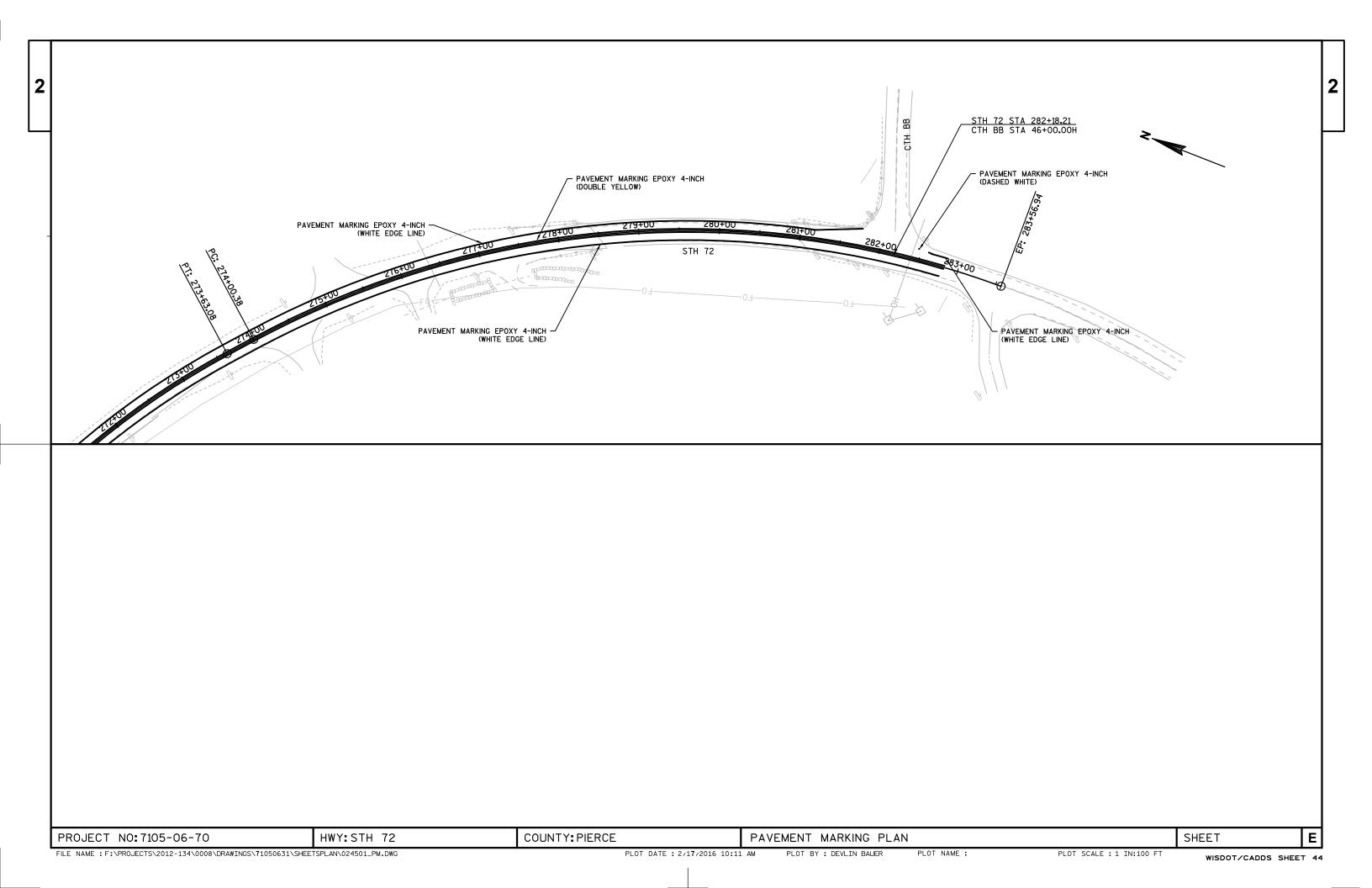


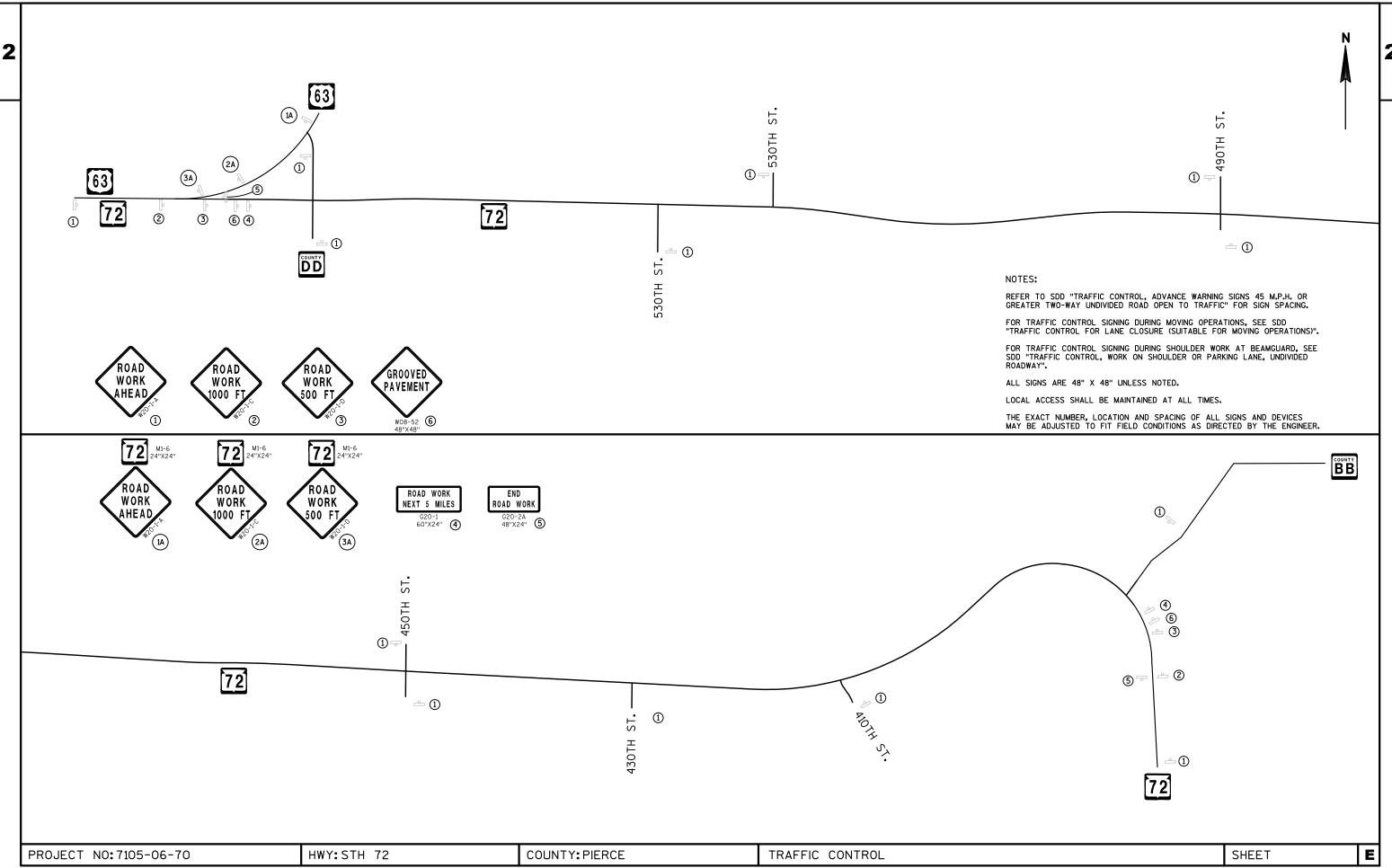












0330

0340

0350

0360

0370

0380

0390

0400

0410

0420

614. 0345

614. 0370

614. 0390

614. 0920

614. 2300

614. 2500

614. 2610

618. 0100

619. 1000

627. 0200 Mul chi ng

Termi nal

Termi nal

Sal vaged Rai I

Mobilization

MGS Guardrail 3

MGS Thrie Beam Transition

MGS Guardrail Terminal EAT

(project) 01. 7105-06-70

Steel Plate Beam Guard Short Radius

Steel Plate Beam Guard Short Radius

Maintenance And Repair of Haul Roads

Steel Plate Beam Guard Energy Absorbing

62.500

1.000

2.000

2, 658. 000

1, 825. 000

236. 400

10.000

1.000

1.000

300.000

62.500

1.000

2.000

2, 658. 000

1, 825. 000

236. 400

10.000

1.000

1.000

300.000

LF

EACH

EACH

LF

LF

LF

EACH

EACH

EACH

DATE 22	PEB16	EST	IMAT	TE OF QUAN		
LI NE NUMBER	LTEM	ITEM DESCRIPTION	UNI T	TOTAL	7105-06-70 QUANTI TY	
0430	628. 1504	Silt Fence	LF	880. 000	880. 000	
0440	628. 1520	Silt Fence Maintenance	LF	880. 000	880. 000	
0450	628. 1905	Mobilizations Erosion Control	EACH	2. 000	2. 000	
0.00	0201.700	modifications 2. co. on control		2.000	2.000	
0460	628. 1910	Mobilizations Emergency Erosion Control	EACH	2.000	2. 000	
0470	628. 7504	Temporary Ditch Checks	LF	120.000	120.000	
0480	628. 7555	Culvert Pipe Checks	EACH	35.000	35.000	
0490	629. 0210	Fertilizer Type B	CWT	3.000	3.000	
0500	630. 0120	Seeding Mixture No. 20	LB	50.000	50. 000	
0510	633. 5200	Markers Culvert End	EACH	38.000	38.000	
0520	634. 0614 634. 0616	Posts Wood 4x6-Inch X 14-FT	EACH	61.000	61. 000	
0530	637. 2210	Posts Wood 4x6-Inch X 16-FT	EACH	4. 000 243. 520	4. 000 243. 520	
0540 0550	637. 2210	Signs Type II Reflective H	SF SF	134. 000		
0550	US1. ZZSU	Signs Type II Reflective F	JI.	134.000	134. 000	
0560	638. 2602	Removing Signs Type II	EACH	66. 000	66. 000	
0570	638. 3000	Removing Small Sign Supports	EACH	64. 000	64. 000	
0580	642. 5001	Field Office Type B	EACH	1. 000	1. 000	
0590	643. 0100	Traffic Control (project) 01. 7105-06-70	EACH	1. 000	1. 000	
0600	643. 0900	Traffic Control Signs	DAY	1, 560. 000	1, 560. 000	
0610	645. 0120	Geotextile Fabric Type HR	SY	45. 000	45.000	
0620	646. 0106	Pavement Marking Epoxy 4-Inch	LF	82, 751. 000	82, 751. 000	
0630	646. 0406	Pavement Marking Same Day Epoxy 4-Inch	LF	34, 143. 000	34, 143. 000	
0640	648. 0100	Locating No-Passing Zones	MI	4. 700	4. 700	
0650	649. 0402	Temporary Pavement Marking Paint 4-Inch	LF	68, 286. 000	68, 286. 000	
0660	650. 8000	Construction Staking Resurfacing	LF	24, 885. 000	24, 885. 000	
0000	550. 6000	Reference	LI	24, 000. 000	24, 000. 000	
0670	650. 9910	Construction Staking Supplemental	LS	1. 000	1. 000	
55.0	300. 7710	Control (project) 01. 7105-06-70		1. 000	1. 555	
0680	690. 0150	Sawing Asphal t	LF	493. 000	493.000	
0690	ASP. 1TOA	On-the-Job Training Apprentice at \$5.	HRS	1, 200. 000	1, 200. 000	
	· · · · · · · · ·	00/HR		., ====	.,	
0700	ASP. 1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0710	SPV. 0060	Special 01. Temporary Portable Rumble	EACH	4. 000	4. 000	
	051/ 005-	Strip Array		=1= 0	=4= -65-	
0720	SPV. 0090	Special 01. Ditch Cleaning	LF	715. 000	715. 000	
0730	SPV. 0105	Special 01. Preparation of Foundation	LS	1. 000	1. 000	
0740	CDV 010F	for Asphaltic Paving Special	1.0	1 000	1 000	
0740	SPV. 0105	Special 02. Material Transfer Vehicle	LS	1.000	1.000	
0750	SPV. 0105	Special 03. Milling and Removing	LS	1. 000	1. 000	
		Temporary Joint				
0760	SPV. 0170	Special 01. Prepare Foundation for	STA	498. 000	498. 000	
0,00	3 0170	Asphaltic Shoulders Special	0171	770.000	170.000	
0770	SPV. 0195	Special 01. HMA Pavement Type 5MT5834H	TON	4, 790. 000	4, 790. 000	
- · · · •	2. 2. 0.,0	Special		., . ,	.,	
0780	SPV. 0195	Special O2. HMA Pavement Type	TON	7, 185. 000	7, 185. 000	
		SMA-Special				
0790	SPV. 0195	Special 03. SMA Pavement Compaction	TON	7, 185. 000	7, 185. 000	
		Acceptance				

RE	REMOVING ASPHALTIC SURFACE BUTT JOINTS						
STATION	то	STATION	LOCATION	SY			
24.00		34+50	BEGIN PROJECT	400			
34+00		34+50	BEGIN PROJECT	180			
110+72		111+22	B-47-20	194			
113+08		113+58	B-47-20	194			
277+98		278+48	B-47-34	194			
280+96		281+46	B-47-34	194			
282+35		282+85	END PROJECT	194			
ITEM TOTAL				1150			

REMOVING ASPHALTIC SURFACE MILLING STATION TO STATION LOCATION						
STATION T	O STATION	LOCATION	SY			
34+00	263+00	MAINLINE	61067			
263+00	272+49	MAINLINE	3163			
272+49	282+85	MAINLINE	2763			
41	+36	DD INTERSECTION	897			
70	+35	DRIVEWAY RT	36			
71-	+49	DRIVEWAYLT	45			
81-	+38	530TH INTERSECTION	442			
94	+72	530TH INTERSECTION	485			
125	+00	DRIVEWAYLT	67			
146	+76	490TH INTERSECTION	870			
171	+45	DRIVEWAYLT	90			
185	+75	DRIVEWAYLT	59			
193	+51	450TH INTERSECTION	934			
219	+77	430TH INTERSECTION	363			
233	+45	DRIVEWAYRT	115			
243	+88	410TH INTERSECTION	337			
274	+50	DRIVEWATRT	163			
275	275+25 DRNEWAYLT		121			
276	+15	DRIVEWAYRT	81			
282	+18	BB INTERSECTION	402			
TEM TOTAL			72500			

	REMOVING MASONRY					
STATION	ТО	STATION	LOCATION	CY		
	249+54		78' LT	18		
ITEM TOTAL	and the second			18		

REMOVING DELINEATOR	204.0180	
STATION	LOCATION	EACH
34+40	LT & RT	2
42+00	LT & RT	2
54+45	LT & RT	2
64+00	LT & RT	2
76+50	LT & RT	2
82+84	LT & RT	2
97+75	LT & RT	2
135+45	LT & RT	2
141+25	LT & RT	2
147+17	LT & RT	2
150+70	LT & RT	2
162+28	LT & RT	2
181+70	LT & RT	2
191+50	LT & RT	2
197+20	LT & RT	2
220+60	LT & RT	2
230+88	LT & RT	2
259+30	LT & RT	2
262+80	LT & RT	2
ITEM TOTAL		38

	205.0100			
STATION	то	STATION	LOCATION	CY
101+40		101+63	RTFE	20
ITEM TOTAL		_		20

FIN	FINISHING ROADWAY (PROJECT) 01. 7105-06-70						
STATION	то	STATION	LOCATION	EACH			
43+00		282+85	MAINLINE	1			
ITEM TOTAL				1			

BASE AGGREGATE DENSE 3/4-INCH					
STATION	TO STATION	LOCATION			
	-	***************************************	***************************************		
34+00	40+65	RT SHOULDER			
41+87	80+88	RT SHOULDER			
81+87	111+29	RT SHOULDER			
113+14	146+25	RT SHOULDER			
147+17	193+00	RT SHOULDER			
193+95	219+33	RT SHOULDER			
220+22	243+25	RT SHOULDER			
244+40	278+59	RT SHOULDER			
281+15	282+85	RT SHOULDER			
34+00	40+82	LT SHOULDER			
42+09	94+22	LT SHOULDER			
95+25	111+16	LT SHOULDER			
113+02	113+63	LT SHOULDER			
114+19	146+38	LT SHOULDER			
147+29	193+15	LT SHOULDER			
194+00	278+37	LT SHOULDER			
280+81	281+74	LT SHOULDER			
282+45	282+85	LT SHOULDER			
ITEM TOTAL			1		

	305.0500			
STATION	то	STATION	LOCATION	STA
34+00		282+18	RT	249
34+00		282+18	LT	249
ITEM TOTAL				498

	TACK COAT					
STATION	то	STATION	LOCATION	GAL		
34+00		111+22	MAINLINE	3710		
113+08		263+00	MAINLINE	5000		
263+00		272+49	MAINLINE	410		
272+49		278+48	MAINLINE	210		
280+96		282+85	MAINLINE	70		
ITEM TOTAL				9400		

PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE MISCELLANEOUS QUANTITIES SHEET **E**

REHE	REHEATING HMA PAVEMENT LONGITUDINAL JOINTS						
STATION	то	STATION	LOCATION	LF			
24.00		000.05	AAA INII INIF	0.4005			
34+00		282+85	MAINLINE	24885			
ITEM TOTAL				24885			

	ASPHALTIC SURFACE					
STATION	то	STATION	LOCATION	TON		
34+00		282+85	UNDISTRIBUTED	200		
ITEM TOTAL				200		

	P	ASPHALTIC SURFACE	PATCHING	465.0110
STATION	то	STATION	LOCATION	TON
34+00		282+85	UNDISTRIBUTED	300
ITEM TOTAL				300

465.012	O FIELD ENTRANCES	FACE DRIVEWAYS ANI	ALTIC SURF	ASPHA
ТО	LOCATION	STATION	то	STATION
	DRIVEWAYLT		37+95	
ţ	DRIVEWAYRT		70+35	
į	DRIVEWAYLT		71+49	
į	DRIVEWAYLT		125+00	
(DRIVEWAYLT		171+45	
ţ	DRIVEWAYLT		185+75	
8	DRIVEWAYRT		233+45	
1:	DRIVEWAYRT		274+50	
8	DRIVEWAYLT		275+25	
(DRIVEWAYRT		276+15	
65				TEM TOTAL

		ASPHALTIC FLUME	S	465.0315
STATION	то	STATION	LOCATION	SY
272+00		273+00	RT	45
ITEM TOTAL				45

ASPHAI	_TIC C	ENTER LINE RUMBLE ST	RIP 2-LANE RURAL	465.047
STATION	то	STATION	LOCATION	L
34+00	,	39+36	MAINLINE	536
43+36		79+38	MAINLINE	3602
83+38	9	93+75	MAINLINE	1037
96+75		110+97	MAINLINE	1422
115+86		122+91	MAINLINE	709
126+91		144+76	MAINLINE	178
148+76		191+51	MAINLINE	4275
195+51	:	217+77	MAINLINE	2220
221+77	:	241+88	MAINLINE	201
248+52	:	278+23	MAINLINE	297
TEM TOTAL				20570

CONCRETE MASONRY	ENDWALLS	504.0900
STATION	LOCATION	CY
249+54	78' LT	10.0
ITEM TOTAL		10.0

	C	CLEANING CULVERT	PIPES	520.8700
STATION	то	STATION	LOCATION	EACH
	82+84		MAINLINE	1
	197+20		MAINLINE	1
ITEM TOTAL				2

CULVERT PIPE LINERS (SIZE	E) 01. 24-IN	520.9700.S
STATION	LOCATION	LF
64+00	MAINLINE	70
ITEM TOTAL		70

CULVERT PIPE LINERS (SIZ	(E) 02. 36-INCH	520.9700.S
STATION	LOCATION	LF
34+40	MAINLINE	110
ITEM TOTAL		110

CL	EANING CU	JLVERT PIPES FOR LI	NER VERIFICATION	520.9750.8
STATION	то	STATION	LOCATION	EACH
	34+40		MAINLINE	1
	64+00		MAINLINE	1
ITEM TOTAL				2

PLOT SCALE : *********

PROJECT NO:7105-06-70 HWY:STH 72

COUNTY: PIERCE

MISCELLANEOUS QUANTITIES

SHEET

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FILE NAME : F:\PROJECTS\2012-134\0008\DRAWINGS\71050631\SHEETSPLAN\030201_MQ.DWG

PLOT DATE: 2/17/2016 10:12 AM PLOT BY: DEVLIN BAUER

PLOT NAME :

			MULCHING, FE	HING, FERTILIZING, & SEEDING		
				627.0200	629.0210	630.0120
STATION	то	STATION	LOCATION	MULCHING	FERTILIZER	SEEDING MIXTURE
					TYPE B	NO. 20
				SY	CWT	LB
	34+40		LT & RT	50	0.5	9
	54+45		LT & RT	50	0.5	9
	64+00		LT & RT	50	0.5	8
	147+18		LT & RT	50	0.5	8
	191+50		LT & RT	50	0.5	8
	220+58		RT	50	0.3	8
ITEM TOTAL				300	3	50

		CULVEF	RT PIPE AND APRON END	DWALLS		
		204.9060.S	522.1024	522.1030	522.1036	524.0636
STATION	LOCATION	REMOVING (ITEM	APRON ENDWALLS	APRON ENDWALLS	APRON ENDWALLS	APRON ENDWALL
		DESCRIPTION)	FOR CPRC	FOR CPRC	FOR CPRC	FOR CULVERT PIP
		01. APRON ENDWALLS	24-INCH	30-INCH	36-INCH	SALVAGED
						36-INCH
		EACH	EACH	EACH	EACH	EACH
34+40.0	RT & LT	2			2	-
54+45.0	RT & LT	2	2			-
64+00	RT & LT	2	2		-	-
147+18	RT & LT	2	2		-	_
191+50	RT & LT	2		2	-	-
220+58	RT	-				1

606.0200	DIUM	RIPRAP MI
CY	LOCATION	STATION
4	LT	76+50
4	LT	97+75
6	LT	150+70
6	LT	259+50
6	LT	263+10
8	RT	273+00
34		ITEM TOTAL

	BARRIER SYSTE	M GRADING SHA	PING FINISHING						614.0010
STATION	LOCATION	AREA	*EXCAVATION	*BORROW	*SALVAGED	*FERTILIZER	*SEEDING	*MULCHING	EACH
			COMMON		TOPSOIL	TYPE B			
		(SF)	(CY)	(CY)	(SY)	(CWT)	(LB)	(SY)	
110+20	LT	850	-	4	125	0.1	3	125	1
109+80	RT	1400	-	5	200	0.1	4	200	1
113+67	LT	750	-	7	-	0.1	2	-	1
114+06	RT	206		1	50	0.0	1	50	1
245+28	RT	1350	-	16.3	250	0.1	4	250	1
248+00	LT	1550	-	19.1	200	0.1	5	200	1
253+56	LT	650		18.33	250	0.0	2	250	1
259+99	LT	1800	_	8.37	150	0.1	5	150	1
273+80	LT	700	-	8.7	300	0.0	2	300	1
277+43	LT	300	-	1	-	0.0	1	-	1
277+65	RT	800	-	10	50	0.1	2	50	1
282+56	RT	820	-	8.2	50	0.1	2	50	1
281+85	LT	750	-	5	-	0.1	2	-	1
ITEM TOTAL				112	1625	0.8	36	1625	13

							GUARDRAIL SUM	MARY					
				614.0115	614.0200	614.0305	614.0345	614.0370	614.0390	614.0920	614.2300	614.2500	614.2610
STATION	то	STATION	LOCATION	ANCHORAGES FOR STEEL	STEEL THRIE BEAM	STEEL PLATE BEAM	STEEL PLATE BEAM	STEEL PLATE BEAM	STEEL PLATE BEAM	SALVAGED	MGS 3	MGS THRIE BEAM	MGS GUARDRAIL
				PLATE BEAM GUARD TYPE 2	STRUCTURAL APPROACH	GUARD CLASS A	GUARD SHORT RADIUS	GUARD EAT	GUARD SR TERMINAL	RAIL	GUARDRAIL	TRANSITION	TERMINAL EAT
				EACH	LF	LF	LF	EACH	EACH	LF	LF	LF	EACH
110+20.9		111+17.6	LT			-				97		39.4	1
109+80.1		111+22.6	RT	-		-				146	50	39.4	1
113+14.3		114+06.9	RT			-				95		39.4	1
113+02.7		113+67.1	LT	1	39.4	25	12.5		1	82			
244+41.3		245+28.8	RT			37.5		1		132		-	
248+00.		253+56.2	LT	-		-				518	450	-	2
259+99.		273+80.2	LT							1115	1275		2
277+43.7		278+36.2	LT	-		-				97		39.4	1
277+65.5		278+57.0	RT							104		39.4	1
281+14.1		282.56.52	RT	-			-			84	50	39.4	1
280+81.23		281+85.06	LT	1	39.4	37.5	50		1	188			
ITEM TOTAL				2	78.8	100	62.5	1	2	2658	1825	236.4	10

*FOR INFORMATION ONLY

COUNTY: PIERCE HWY:STH 72 SHEET Ε PROJECT NO: 7105-06-70 MISCELLANEOUS QUANTITIES

	MOBILIZATION					
STATIO	N	LOCATION	EACH			
34+00	282+18	PROJECT	1			
ITEM TOTAL			1			

	SILTFENCE					
STATION	то	STATION	LOCATION	LF		
34+23		34+94	RT	80		
54+15		55+00	LT	90		
76+20		76+75	RT & LT	100		
82+60		83+15	LT	60		
135+60		136+50	RT	100		
229+75		230+50	LT	60		
231+30		231+90	RT	60		
243+86		244+67	LT	90		
245+15		245+64	RT	60		
247+40		248+26	RT	90		
249+50		250+25	LT	90		
ITEM TOTAL				880		

628.15	SILT FENCE MAINTENANCE					
	LOCATION	STATION	то	STATION		
8	RT	34+94		34+23		
9	LT	55+00		54+15		
10	RT & LT	76+75		76+20		
6	LT	83+15		82+60		
10	RT	136+50		135+60		
6	LT	230+50		229+75		
6	RT	231+90		231+30		
9	LT	244+67		243+86		
6	RT	245+64		245+15		
9	RT	248+26		247+40		
9	LT	250+25		249+50		
88				TEM TOTAL		

	MOBILIZATIONS EROSIO	N CONTROL	628.1905
STA	TION	LOCATION	EACH
34+00	282+85	MAINLINE	2
ITEM TOTAL			2

МОВІ	MOBILIZATIONS EMERGENCY EROSION CONTROL					
STA	ATION	LOCATION	EACH			
34+00	282+85	MAINLINE	2			
ITEM TOTAL			2			

TEMPORARY DITC	CH CHECKS	628.7504
STATION	LOCATION	LF
34+94	RT	10
55+00	LT	10
136+50	RT	10
145+25	RT	10
146+25	RT	10
190+80	LT	10
229+75	LT	10
231+90	RT	10
243+91	LT	10
245+64	RT	10
248+06	RT	10
250+25	LT	10
ITEM TOTAL		120

	CULVERT PIPE CHECKS				
STATION	TO	STATION	LOCATION	EACH	
	34+41		LT	5	
	54+45		RT	4	
	64+00		RT	4	
	76+50		RT	5	
	191+50		LT	5	
	244+86		LT	12	
ITEM TOTAL		000000000000000000000000000000000000000		35	

MARKERS CULVI	ERT END	633.5200
STATION	LOCATION	EACH
34+40	LT & RT	2
42+00	LT & RT	2
54+45	LT & RT	2
64+00	LT & RT	2
76+50	LT & RT	2
82+84	LT & RT	2
97+75	LT & RT	2
135+45	LT & RT	2
141+25	LT & RT	2
147+17	LT & RT	2
150+70	LT & RT	2
162+28	LT & RT	2
181+70	LT & RT	2
191+50	LT & RT	2
197+20	LT & RT	2
220+60	LT & RT	2
230+88	LT & RT	2
259+30	LT & RT	2
262+80	LT & RT	2
ITEM TOTAL		38

FIELD OFFICE TYPE B	642.5001
STATION	EACH
PROJECT	1
ITEM TOTAL	1

TRAFF	TRAFFIC CONTROL (PROJECT) 01. 7105-06-70					
	EACH					
	PROJECT					
ITEM TOTAL		1				

	TRAFFIC CONTROL SIGNS					
STATION	то	STATION	LOCATION	DAYS		
34+00		282+85	PROJECT	1560		
ITEM TOTAL				1560		

PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE MISCELLANEOUS QUANTITIES

PLOT SCALE : ********

WISDOT/CADDS SHEET 42

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FILE NAME : F:\PROJECTS\2012-134\0008\DRAWINGS\71050631\SHEETSPLAN\030201_MQ.DWG

PLOT DATE: 2/17/2016 10:12 AM PLOT BY: DEVLIN BAUER

PLOT NAME :

SHEET

STATION	SIGN NUMBER	SIGN CODE	SIGN DESCRIPTION	WIDTH INCHES	HEIGHT INCHES	637.2210 SIGNS, TYPE II, REFLECTIVE H	637 2230 SIGNS, TYPE II,	634.0614 WOOD POSTS, 4X6-INCH X 14 FT EACH	634.0616 WOOD POSTS, 4X6-INCH X 16 FT EACH	638.2602 REMOVING SIGNS, TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	REMARKS
33+86	1000	155-56	ADOPT-A-HIGHWAY	30	36	7.50	SF 	1		EACH 1	EACH 1	"SAINT PAUL'S U.C.C."
38+91	1001	W3-1	STOP AHEAD	36	36	9.00	_	1		1	1	SAINT FAOL S U.C.C.
			JCT					'				
40+12	1002	J1-1	USH 63	24	39	6.50	-		1	1	1	
40.00	4000	140.4	COUNTY DD	24	45	7.50			4	4		
40+60	1003	J12-1	DIRECTIONAL ARROW AHEAD	24	45	7.50	_		1	1	1	
			STH 72									
41+15	1004	J12-2	DIRECTIONAL ARROW AHEAD	48	45	15.00	_		1	1	1	
41110	1004	012-2	COUNTY DD	40	"	10.00			'	'	,	
			DIRECTIONAL ARROW AHEAD									
41+15	1005	R1-1	STOP	30	30	5.18	-	1		1	1	
42+10	1006	J12-1	COUNTY DD	24	45	7.50		1		1	1	
		0.2.	DIRECTIONAL ARROW LEFT OR RIGHT					·		· 	·	
41+15	1007	155-56	ADOPT-A-HIGHWAY	30	36	7.50	-	1		1	1	"RESIDENTS N4925 CTY. Rd. DD"
41+63	1008	R1-1	STOP	30	30	5.18	-	1		1	1	
			STH 72									
41+63	1009	J12-2	DIRECTIONAL ARROW LEFT OR RIGHT	48	45	15.00	_		1	1	1	
			COUNTY DD									
			DIRECTIONAL ARROW AHEAD									
43+25	1010	J4-1	EAST	24	36	6.00	_	1		1	1	
			STH 72									
49+25	1011	W13-1	ADVISORY SPEED LIMIT (45)	18	18		2.25	1		1	1	NOTE: PLACE SIGNS 1011 AND 1012
49+25	1012	W2-1	INTERSECTION	30	30		6.25			1	-	ON SAME POST
49+40	1013	W11-5	FARM MACHINERY SYMBOL	30	30		6.25	1		1	1	
51+35	1014	J1-1	JCT	24	39	6.50	_	1		1	1	
			COUNTY DD									
72+45	1015	W11-5	FARM MACHINERY SYMBOL	30	30		6.25	1		1	1	
81+65	1016	R1-1	STOP	30	30	5.18	-	1		1	1	
94+45	1017	R1-1	STOP	30	30	5.18	-	1	-	1	1	
96+00	1018	W14-3	NO PASSING ZONE	48	36		6.00	1		1	1	
109+15	1019	W14-3	NO PASSING ZONE	48	36		6.00	1		1	1	
111+05	1020	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12	36		3.00			1	l	
111+20	1021	W5-52R	CLEARANCE STRIPER DOWN LEFT	12	36		3.00	1		1	1	
113+20	1022 1023	W5-52L W5-52R	CLEARANCE STRIPER DOWN RIGHT	12 12	36		3.00	1		1	1	
113+10 125+10	1023	R1-1	CLEARANCE STRIPER DOWN LEFT	30	36 30	5.18	3.00	1		1	1	
136+70	1024	W14-3	STOP NO PASSING ZONE	30 48	36		6.00	1		1	1	
145+20	1025	W14-3 W14-3	NO PASSING ZONE	48	36		6.00	1		1	1	
145+50	1026	155-56	ADOPT-A-HIGHWAY	30	36	7.50		1		1	1	"SAINT PAUL'S U.C.C."
146+55	1027	R1-1	STOP	30	30	5.18	_	1		1	1	O/ (IIV) 1 / (OE O O.O.O.
147+05	1029	R1-1	STOP	30	30	5.18	_	1		1	1	
149+10	1030	155-56	ADOPT-A-HIGHWAY	30	36	7.50	_	1		1	1	"BUCKY'S BAGGERS"
160+90	1031	W14-3	NO PASSING ZONE	48	36		6.00	1		1	1	255 257.002.10
162+15	1032	W14-3	NO PASSING ZONE	48	36		6.00	1		1	1	
TOTAL SHEET 1		,0			30	139.26	69.00	28	4	33	32	

HWY:STH 72 PROJECT NO: 7105-06-70

COUNTY: PIERCE

MISCELLANEOUS QUANTITIES PLOT DATE : 2/17/2016 10:12 AM

PLOT NAME :

SHEET PLOT SCALE : *********

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PLOT BY: DEVLIN BAUER

						637.2210	637.2230	634.0614	634.0616	638.2602	638.3000	
	CION					SIGNS,	SIGNS,	WOOD POSTS,	WOOD POSTS,	REMOVING	REMOVING	
STATION	SIGN NUMBER	SIGN CODE	SIGN	WIDTH	HEIGHT	TYPE II,	TYPE II,	4X6-INCH X 14 FT	4X6-INCH X 16 FT	SIGNS,	SMALL SIGN	
			DESCRIPTION	INCHES	INCHES	REFLECTIVE H	REFLECTIVE F	EACH	EACH	TYPE II	SUPPORTS	REMARKS
						SF	SF			EACH	EACH	
179+45	1033	W14-3	NO PASSING ZONE	48	36		6.00	1	_	1	1	
193+20	1034	R1-1	STOP	30	30	5.18	_	1	_	1	1	
193+80	1035	R1-1	STOP	30	30	5.18	_	1	-	1	1	
198+55	1036	W14-3	NO PASSING ZONE	48	36		6.00	1	-	1	1	
220+05	1037	R1-1	STOP	30	30	5.18	_	1	-	1	1	
220+25	1038	W14-3	NO PASSING ZONE	48	36		6.00	1	-	1	1	
228+20	1039	W14-3	NO PASSING ZONE	48	36		6.00	1	_	1	1	
230+50	1040	W1-2L	LEFT CURVE	30	30		6.25	1	_	1	1	
241+60	1041	155-56	ADOPT-A-HIGHWAY	30	36	7.50	-	1	_	1	1	"BUCKY'S BAGGERS"
244+30	1042	R1-1	STOP	30	30	5.18	-	1	_	1	1	
246+20	1043	R1-1	STOP	30	30	5.18		1	_	1	1	
246+55	1044	155-56	ADOPT-A-HIGHWAY	30	36	7.50	_	1	_	1	1	"ELLSWORTH ROD AND GUN CLUB"
259+75	1045	W1-2R	RIGHT CURVE	30	30		6.25	1	_	1	1	NOTE:PLACE SIGNS 1040 AND 1041
259+75	1046	W13-1	AVISORY SPEED LIMIT (50)	18	18		2.25	1	_	1	_	ON SAME POST
265+80	1047	SPECIAL	WATCH FOR TURNING VEHICLES	30	30		6.25	1	_	1	1	*SPECIAL SIGN SEE DETAIL
272+05	1048	J1-1	JCT COUNTY BB	24	39	6.50	_	1	-	1	1	
273+55	1049	R7-1L	NO PARKING WITH LEFT ARROW	18	24	3.00		1	_	1	1	
274+55	1050	R7-1L R7-1R	NO PARKING WITH RIGHT ARROW	18	24	3.00		1		1	1	
275+25	1050	R7-1R	NO PARKING WITH LT. OR RT. ARROW	18	24	3.00		1	_	1	1	
276+90	1052	R7-1D	NO PARKING WITH LT. OR RT. ARROW	18	24	3.00		1		1	1	
277+47	1052	R7-1L	NO PARKING WITH LEFT ARROW	18	24	3.00		1	_	1	1	
278+25	1054	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12	36	3.00	3.00	1		1	1	
278+40	1055	R7-1R	NO PARKING WITH RIGHT ARROW	18	24	3.00		1	_	1	1	
278+50	1056	W5-52R	CLEARANCE STRIPER DOWN LEFT	12	36	3.00	3.00	1		1	1	
281+25	1057	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12	36		3.00	1	-	1	1	
280+95	1057	W5-52L W5-52R	CLEARANCE STRIPER DOWN LEFT	12	36		3.00	1		1	1	
200+95		VV3-32R	WEST		30		3.00	1	-	ı		
281+10	1059	J4-1	STH72	24	36	6.00	-	1	-	1	1	
281+75	1060	J12-1	COUNTY BB	24	45	7.50	_	1	-	1	1	
			LEFT ARROW									
281+80	1061	J12-1	STH 72 DIRECTIONAL ARROW LEFT OR RIGHT	24	45	7.50	-	1	-	1	1	
281+80	1062	R1-1	STOP	30	30	5.18	_	1	_	1	1	
282+15	1063	W1-7	DIRECTIONAL ARROW LEFT OR RIGHT	48	24		8.00	1	_	1	1	
			COUNTY BB									
282+55	1064	J12-1	RIGHT ARROW	24	45	7.50	_	1	-	1	1	
	1065	R1-1	STOP	30	30	5.18	_	1	-	1	1	
TOTAL SHEET 2			2.01			104.26	65.00	33	0	33	32	
TOTAL SHEET 1						139.26	69.00	28	4	33	32	
TOTAL						243.52	134.00	61	4	66	64	
. 0 17 12	1				ı	2.0.02	104.00	1 31	, T		<u> </u>	

PROJECT NO:7105-06-70 HWY:STH 72 COUNTY:PIERCE MISCELLANEOUS QUANTITIES SHEET **E**

PLOT NAME :

STATIO

STATION	то	STATION	LOCATION	YELLOW	WHITE	L
				LF	LF	
34+00		40+00	RT WHITE EDGELINE		600	60
34+00		40+82	LT WHITE EDGELINE		682	68
40+00		40+65	RT WHITE EDGELINE (DASHED)		65	6
41+87		79+81	RT WHITE EDGELINE		3794	379
42+09		43+09	LT WHITE EDGELINE (DASHED)		100	10
43+09		94+22	LT WHITE EDGELINE		5113	511
79+81		80+88	RT WHITE EDGELINE (DASHED)		107	10
81+87		145+42	RT WHITE EDGELINE		6355	635
95+25		96+17	LT WHITE EDGELINE (DASHED)		92	9
96+17		113+63	LT WHITE EDGELINE		1746	174
114+19		146+38	LT WHITE EDGELINE		3219	321
145+42		146+25	RT WHITE EDGELINE (DASHED)		83	8
147+17		192+14	RT WHITE EDGELINE		4497	449
147+29		148+51	LT WHITE EDGELINE (DASHED)		122	12
148+51		193+15	LT WHITE EDGELINE		4464	446
192+14		193+00	RT WHITE EDGELINE (DASHED)		86	8
193+95		218+19	RT WHITE EDGELINE		2424	242
194+00		194+98	LT WHITE EDGELINE (DASHED)		98	
194+98		281+74	LT WHITE EDGELINE		8676	867
218+19		219+33	RT WHITE EDGELINE (DASHED)		114	11
220+22		242+64	RT WHITE EDGELINE		2242	224
242+64		243+25	RT WHITE EDGELINE (DASHED)		61	6
244+40		282+85	RT WHITE EDGELINE		3845	384
282+62		282+85	LT WHITE EDGELINE		23	204
34+00		88+00	CL: DOUBLE YELLOW	10800	25	1080
88+00		96+00	CL: WB DASHED, EB YELLOW	1000		1000
96+00		109+00		325		32
			CL: DASHED			
109+00		120+00	CL: WB DASHED, EB YELLOW	1375		137
120+00		128+00	CL: DOUBLE YELLOW	1600		160
128+00		136+00	CL: EB DASHED, WB YELLOW	1000		100
136+00		145+00	CL: DASHED	225		22
145+00		152+00	CL: WB DASHED, EB YELLOW	875		87
152+00		152+50	CL: DASHED	13		1
152+50		160+30	CL: EB DASHED, WB YELLOW	975		97
160+30		169+50	CL: WB DASHED, EB YELLOW	1150		115
169+50		177+50	CL: EB DASHED, WB YELLOW	1000		100
177+50		196+75	CL: DASHED	481		48
196+75		205+00	CL: WB DASHED, EB YELLOW	1031		103
205+00		209+50	CL: DOUBLE YELLOW	900		90
209+50		218+50	CL: EB DASHED, WB YELLOW	1125		112
218+50		228+40	CL: DASHED	248		24
228+40		240+00	CL: WB DASHED, EB YELLOW	1450		145
240+00		282+85	CL: DOUBLE YELLOW	8570		857
TEM TOTAL	_			34143	48608	8275

GEOTEXTILE FAB	645.0120	
STATION	SY	
76+50	LT	4
97+75	LT	4
150+70	LT	4
259+50	LT	8
263+10	LT	8
273+00	RT	17
ITEM TOTAL		45

646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH						
LF	LOCATION	STATION	то	STATION			
				anno o o o o o o o o o o o o o o o o o o			
10800	CL: DOUBLE YELLOW	88+00		34+00			
1000	CL: WB DASHED, EB YELLOW	96+00		88+00			
325	CL: DASHED	109+00		96+00			
1375	CL: WB DASHED, EB YELLOW	120+00		109+00			
1600	CL: DOUBLE YELLOW	128+00		120+00			
1000	CL: EB DASHED, WB YELLOW	136+00		128+00			
225	CL: DASHED	145+00		136+00			
875	CL: WB DASHED, EB YELLOW	152+00		145+00			
13	CL: DASHED	152+50		152+00			
975	CL: EB DASHED, WB YELLOW	160+30		152+50			
1150	CL: WB DASHED, EB YELLOW	169+50		160+30			
1000	CL: EB DASHED, WB YELLOW	177+50		169+50			
481	CL: DASHED	196+75		177+50			
1031	CL: WB DASHED, EB YELLOW	205+00		196+75			
900	CL: DOUBLE YELLOW	209+50		205+00			
1125	CL: EB DASHED, WB YELLOW	218+50		209+50			
248	CL: DASHED	228+40		218+50			
1450	CL: WB DASHED, EB YELLOW	240+00		228+40			
8570	CL: DOUBLE YELLOW	282+85		240+00			
34143				ITEM TOTAL			

	648.0100			
STATION	то	STATION	LOCATION	MI
34+00		282+18	MAINLINE	4.70
ITEM TOTAL				4.70

TEI	649.04			
STATION	то	STATION	LOCATION	
34+00		88+00	CL: DOUBLE YELLOW	216
88+00		96+00	CL: WB DASHED, EB YELLOW	20
96+00		109+00	CL: DASHED	6
109+00		120+00	CL: WB DASHED, EB YELLOW	27
120+00		128+00	CL: DOUBLE YELLOW	32
128+00		136+00	CL: EB DASHED, WB YELLOW	20
136+00		145+00	CL: DASHED	4
145+00		152+00	CL: WB DASHED, EB YELLOW	17
152+00		152+50	CL: DASHED	
152+50		160+30	CL: EB DASHED, WB YELLOW	19
160+30		169+50	CL: WB DASHED, EB YELLOW	23
169+50		177+50	CL: EB DASHED, WB YELLOW	20
177+50		196+75	CL: DASHED	9
196+75		205+00	CL: WB DASHED, EB YELLOW	20
205+00		209+50	CL: DOUBLE YELLOW	18
209+50		218+50	CL: EB DASHED, WB YELLOW	22
218+50		228+40	CL: DASHED	4
228+40		240+00	CL: WB DASHED, EB YELLOW	29
240+00		282+85	CL: DOUBLE YELLOW	171
ITEM TOTAL				682

CONSTRUCTION STAKING RESURF	650.8000					
STATION TO STATION	LOCATION	LF				
34+00 282+18	MAINLINE	24885				
ITEM TOTAL	ITEM TOTAL					

CONSTRUCTION STAKING SUPPLEMENTAL C	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 7105-06-70						
STRUCTURE	LOCATION	LS					
34+00 282+85	PROJECT	1					
ITEM TOTAL		1					

COUNTY: PIERCE HWY:STH 72 PROJECT NO: 7105-06-70 MISCELLANEOUS QUANTITIES FILE NAME : F:\PROJECTS\2012-134\0008\DRAWINGS\71050631\SHEETSPLAN\030201_MQ.DWG PLOT SCALE : ********* PLOT DATE : 2/17/2016 10:12 AM PLOT BY : DEVLIN BAUER PLOT NAME :

WISDOT/CADDS SHEET 42

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SHEET

		SAWING ASPHA	ALT	690,0150
STATION	ТО	STATION	LOCATION	LF
	38+00		DRIVEWAY LT (30' OFFSET)	27
	41+36		DD LT (85' OFFSET)	25
	41+36		DD RT (85' OFFSET)	27
	70+35		DRIVEWAY RT (30' OFFSET)	15
	71+49		DRIVEWAY LT (30' OFFSET)	13
	81+38		530TH RT (80' OFFSET)	22
	94+72		530TH LT (100' OFFSET)	22
	125+00		DRIVEWAY LT (40' OFFSET)	13
	146+76		490TH LT (75' OFFSET)	24
	146+76		490TH RT (75' OFFSET)	22
	171+45		DRIVEWAY LT (35' OFFSET)	20
	185+75		DRIVEWAY LT (35' OFFSET)	13
	193+51		450TH LT (85' OFFSET)	22
	193+51		450TH RT (90' OFFSET)	22
	219+77		430TH RT (60' OFFSET)	24
	233+45		DRIVEWAY RT (30' OFFSET)	27
	243+88		410TH RT (60' OFFSET)	25
	274+50		DRIVEWAY RT (35' OFFSET)	32
	275+25		DRIVEWAY LT (30' OFFSET)	48
	276+15		DRIVEWAYRT (35' OFFSET)	22
	282+18		BB LT (70' OFFSET)	28
ITEM TOTAL			1	493

SPV.0090	EANING	SPECIAL 01. DITCH CLEANING				
LF	LOCATION	STATION				
90	RT & LT	+45	54			
50	RT	+50	76			
50	RT	101+40	100+90			
50	RT	102+15	101+65			
50	LT	135+44				
105	RT	146+20	145+15			
50	RT	1+50	191			
90	RT & LT)+90	230			
90	RT & LT	244+86				
90	RT & LT	248+80				
715			ITEM TOTAL			

SPECIAL 01	SPECIAL 01. TEMPORARY PORTABLE RUMBLE STRIP ARRAY				
STATION	то	STATION	LOCATION	EACH	
34+00		282+85	PROJECT	4	
ITEM TOTAL				4	

SPECIAL 01. PR	SPECIAL 01. PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING SPECIAL			
STATION	то	STATION	LOCATION	LS
34+00		282+85	PROJECT	1
ITEM TOTAL				1

SPI	SPECIAL 02. MATERIAL TRANSFER VEHICLE				
STATION	то	STATION	LOCATION	LS	
34+00		282+85	PROJECT	1	
ITEM TOTAL				1	

SPECIAL	SPECIAL 03. MILLING AND REMOVING TEMPORARY JOINT				
STATION	то	STATION	LOCATION	LS	
34+00		282+85	PROJECT	1	
ITEM TOTAL				1	

SPV.01	SMT 5834H SPECIAL	SPECIAL 01. HMA PAVEMENT TYPE 5MT 5834H SPECIAL			
TC	LOCATION	STATION	то	STATION	
141	MAINLINE	111+22		34+00	
274	MAINLINE	263+00		113+08	
22	MAINLINE	272+49		263+00	
11	MAINLINE	278+48		272+49	
3	MAINLINE	282+85		280+96	
4	DD INTERSECTION	41+36			
2	530TH INTERSECTION	81+38			
2	530TH INTERSECTION	94+72			
4	490TH INTERSECTION	146+76			
5	450TH INTERSECTION	193+51			
2	430TH INTERSECTION	219+77			
1	410TH INTERSECTION	243+88			
2	BB INTERSECTION	282+18			
479				TEM TOTAL	

	SPECIAL 01. PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS SPECIAL				
STATION	то	STATION	LOCATION	STA	
34+00		282+85	RT	249	
34+00		282+85	LT	249	
ITEM TOTAL				498	

SPEC	IAL 02	2. HMA PAVEMENT TYP	E SMA-SPECIAL	SPV.0195
STATION	то	STATION	LOCATION	TON
34+00		111+22	MAINLINE	2124
113+08		263+00	MAINLINE	4123
263+00		272+49	MAINLINE	331
272+49		278+48	MAINLINE	165
280+96		282+85	MAINLINE	52
	41+36	5	DD INTERSECTION	74
	81+38	3	530TH INTERSECTION	36
:	94+72	2	530TH INTERSECTION	40
1	46+7	6	490TH INTERSECTION	72
1	93+5	1	450TH INTERSECTION	77
2	219+77		430TH INTERSECTION	30
2	243+8	8	410TH INTERSECTION	28
2	282+1	8	BB INTERSECTION	33
ITEM TOTAL				7185

SPE	SPV.019			
STATION	то	STATION	LOCATION	TO
STATION	10	STATION	LOCATION	
34+00		111+22	MAINLINE	212
113+08		263+00	MAINLINE	412
263+00		272+49	MAINLINE	33
272+49		278+48	MAINLINE	16
280+96		282+85	MAINLINE	5
41+36		5	DD INTERSECTION	7
81+38			530TH INTERSECTION	3
94+72			530TH INTERSECTION	4
1	46+7	6	490TH INTERSECTION	7
1	193+5	1	450TH INTERSECTION	7
219+77			430TH INTERSECTION	3
243+88			410TH INTERSECTION	2
282+18		8	BB INTERSECTION	3
ITEM TOTAL				718

PROJECT NO: 7105-06-70

HWY:STH 72

COUNTY: PIERCE

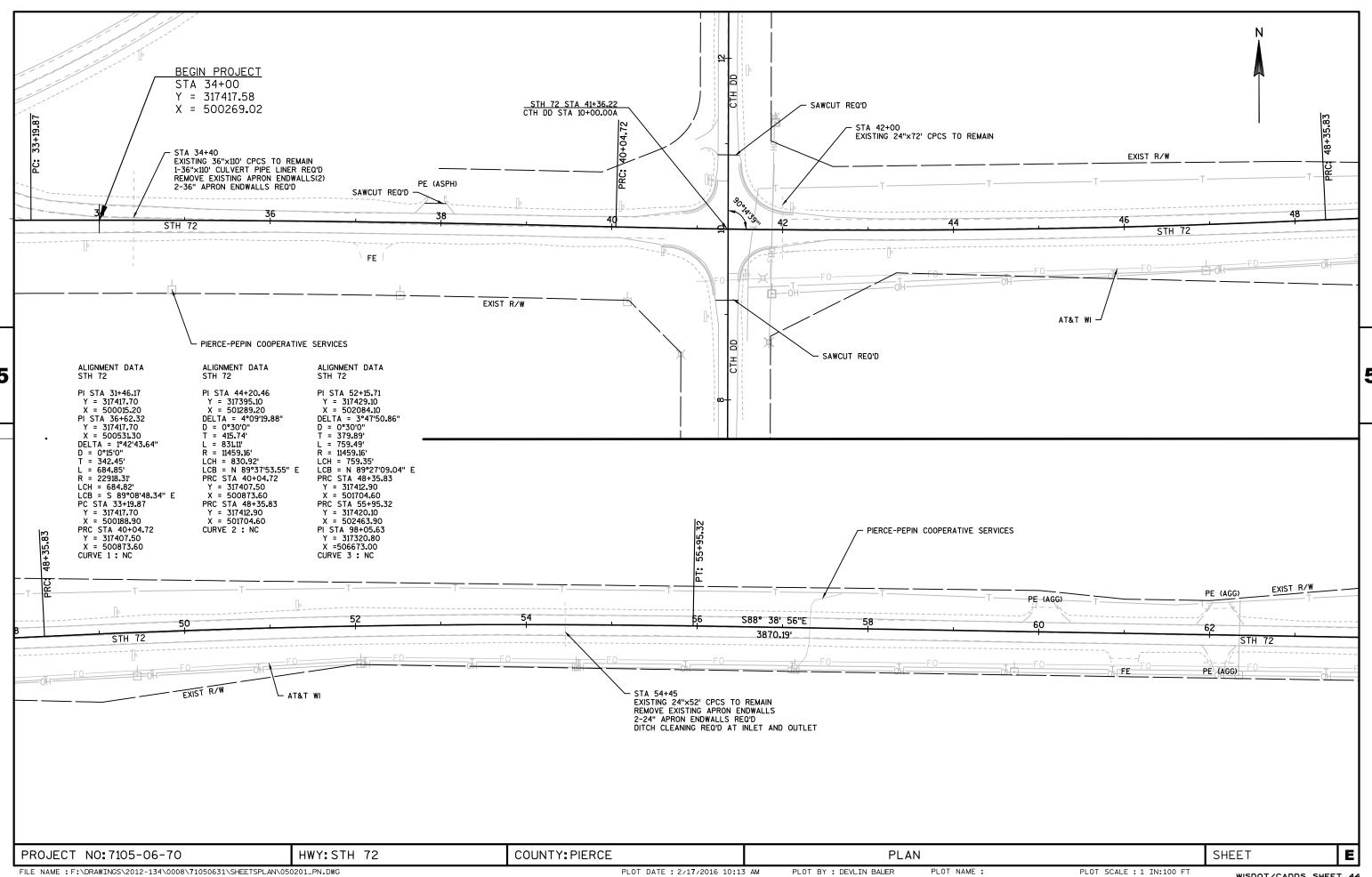
MISCELLANEOUS QUANTITIES

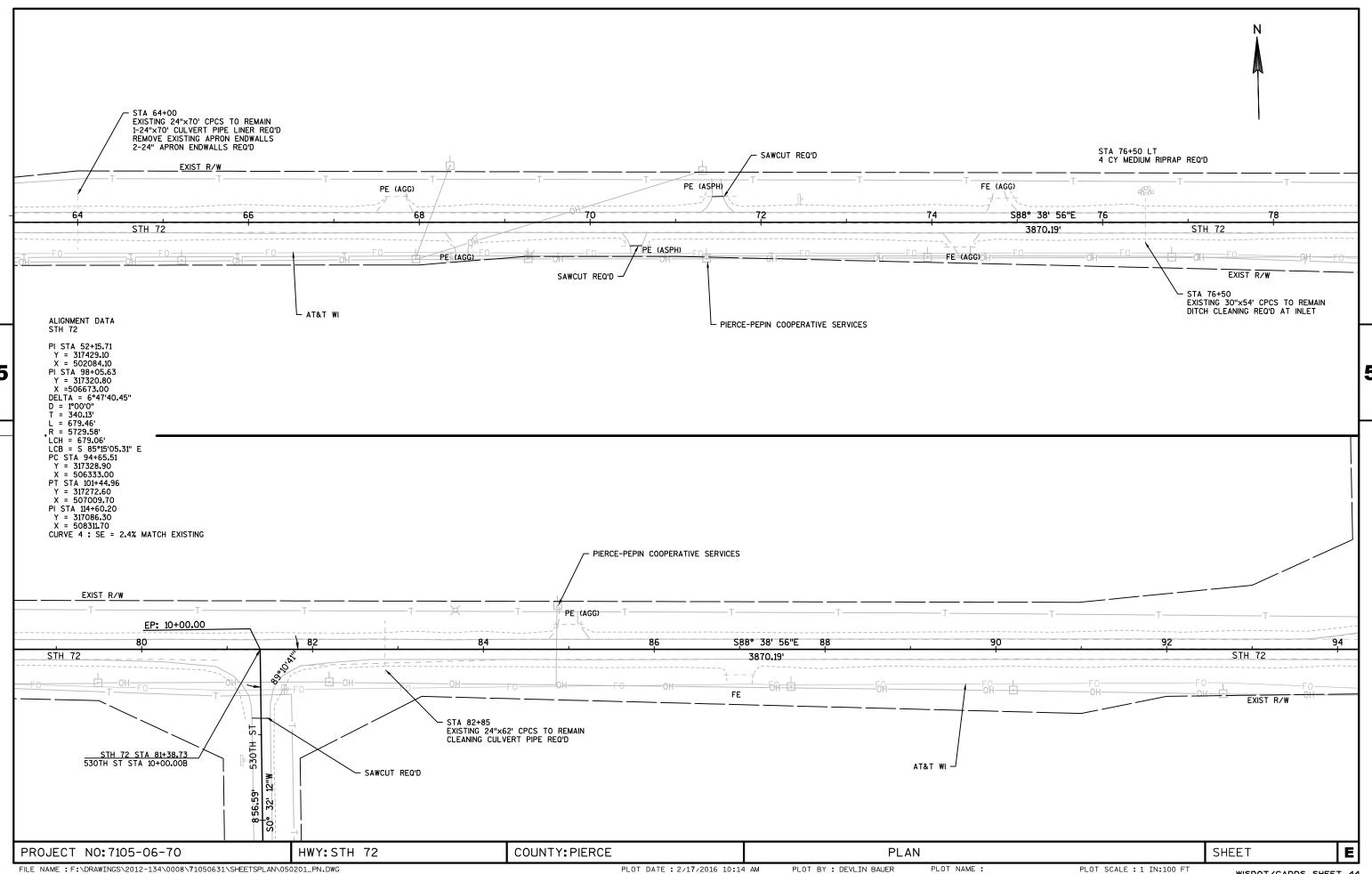
SHEET

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PLOT DATE : 2/17/2016 10:12 AM

PLOT BY: DEVLIN BAUER

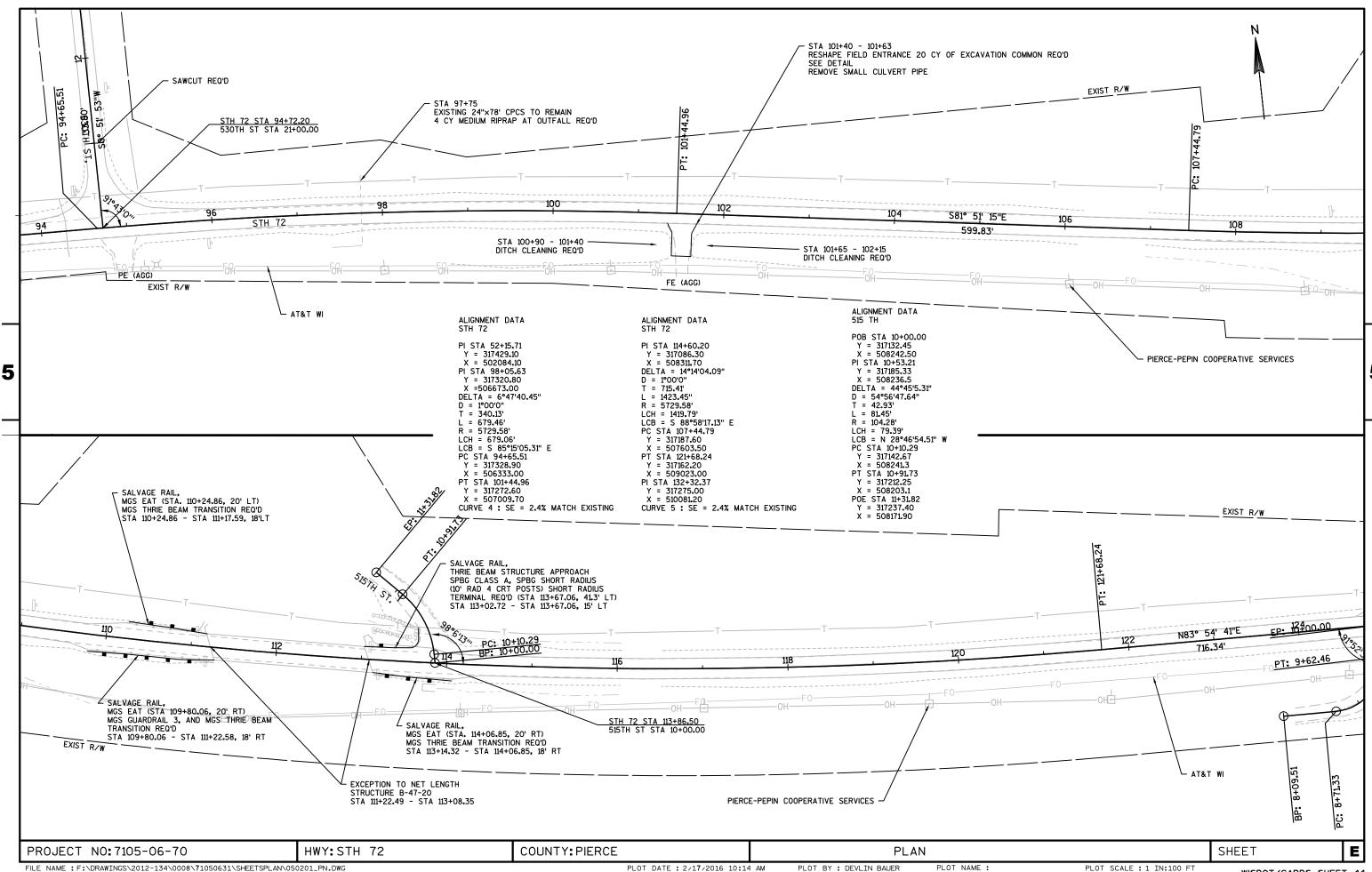


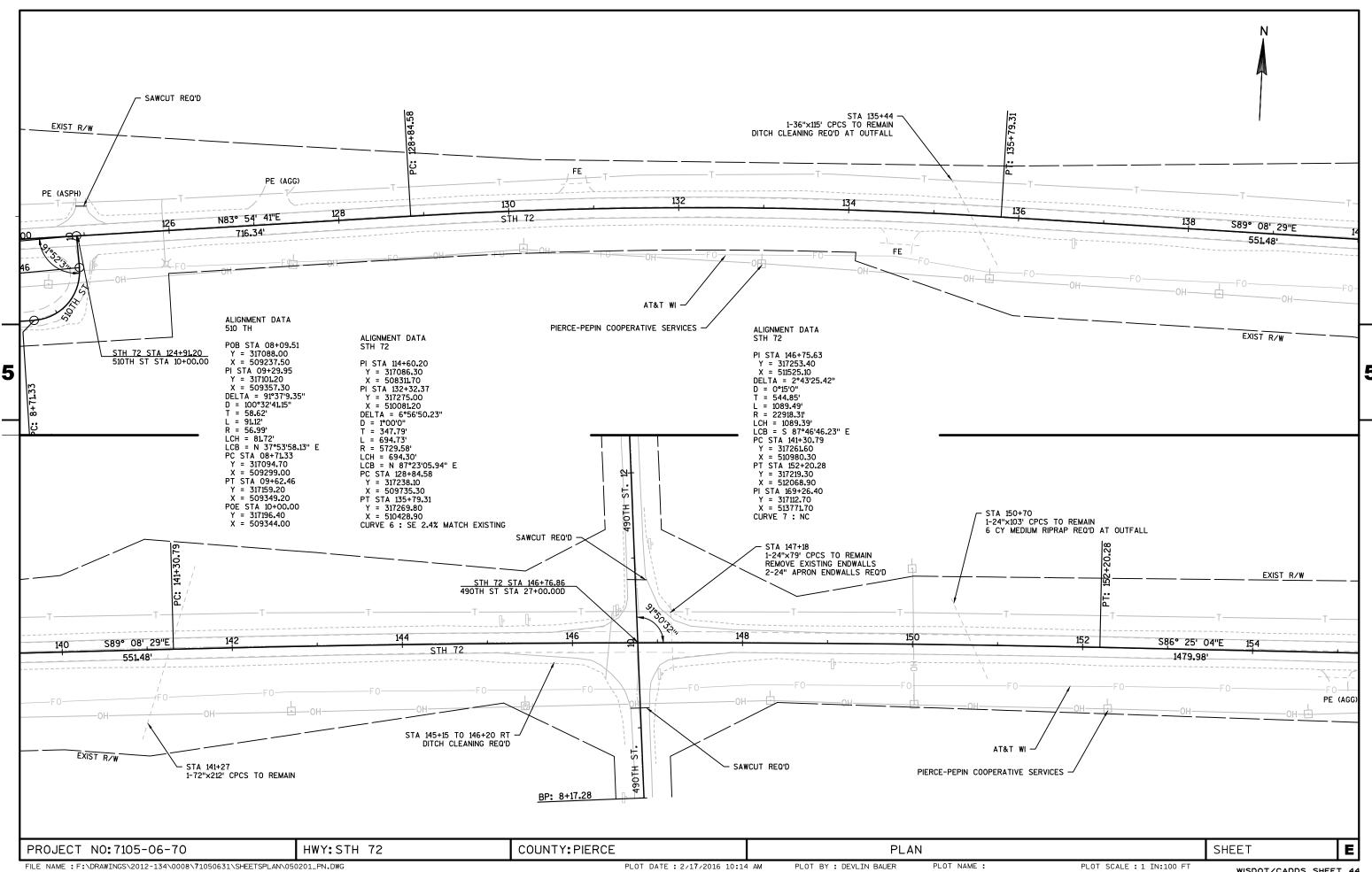


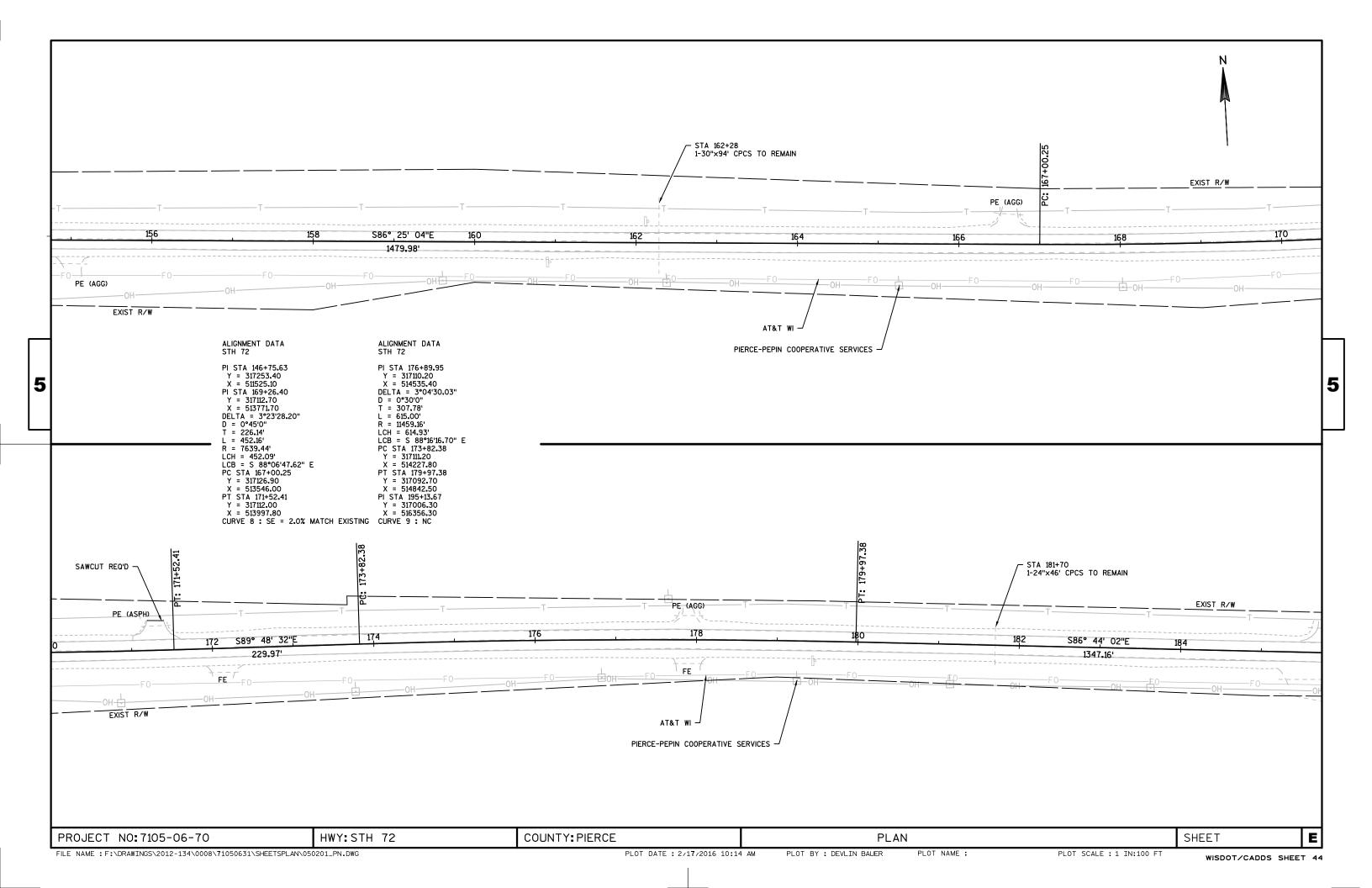
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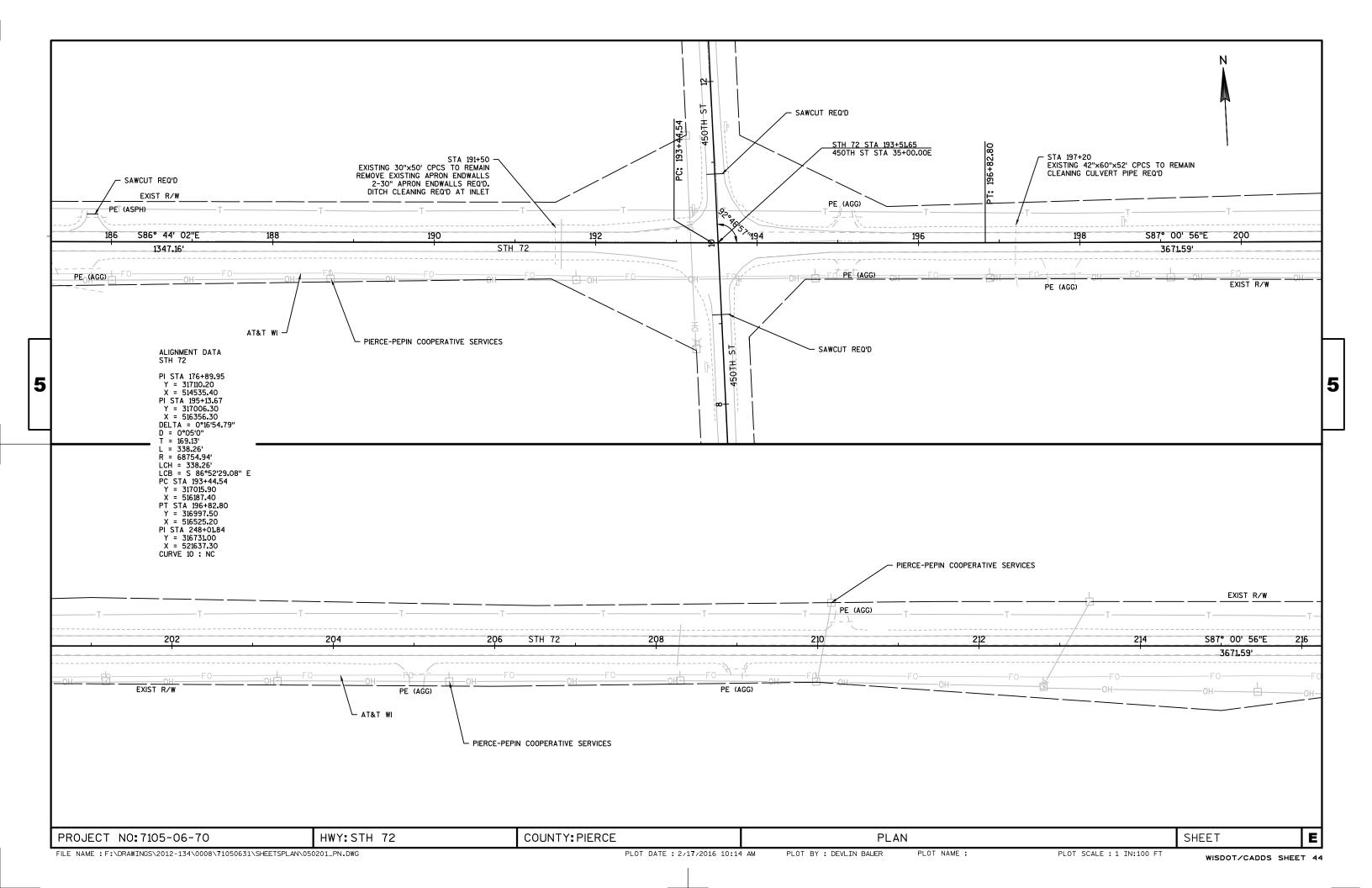
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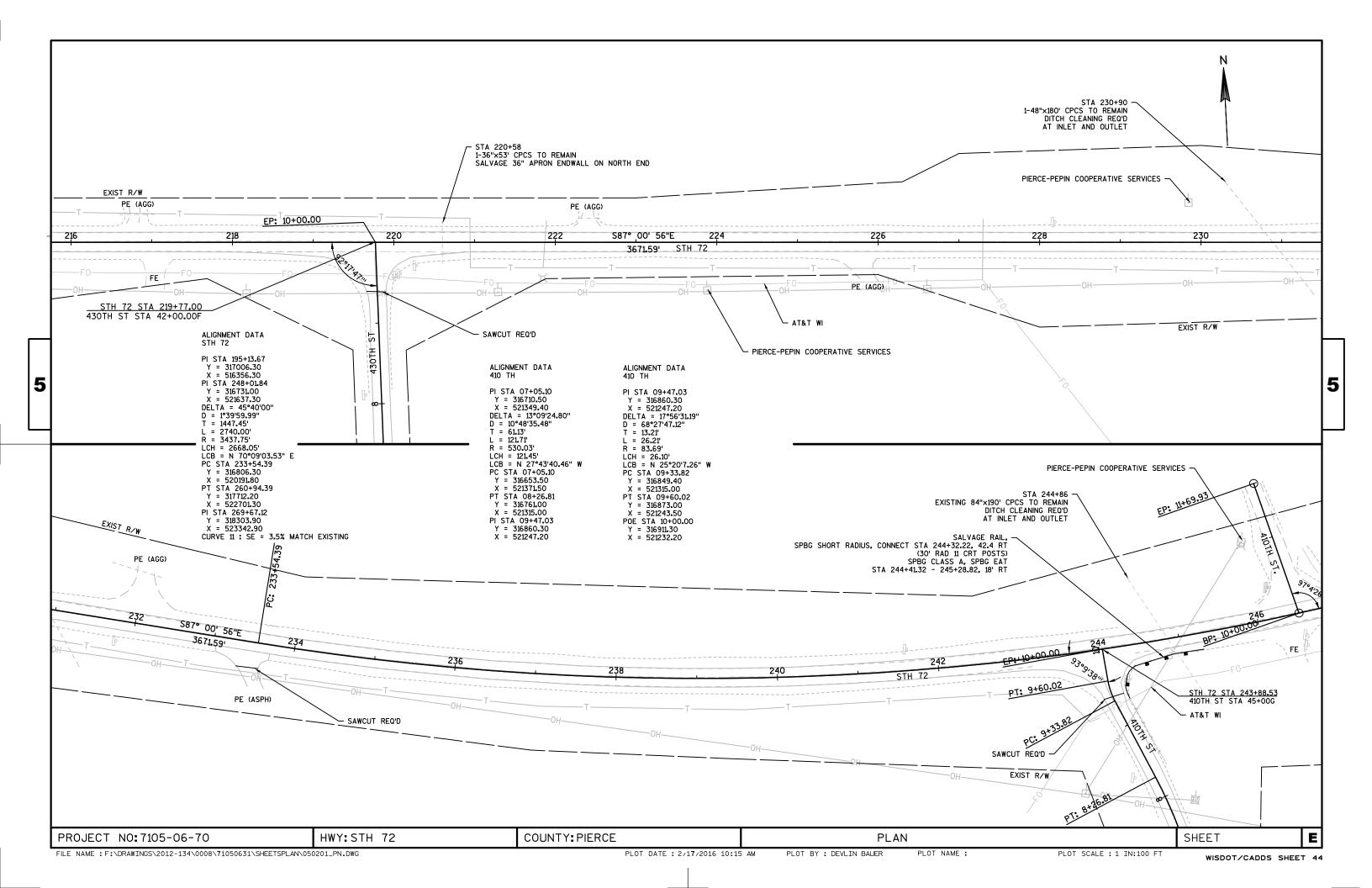
PLOT SCALE : 1 IN:100 FT

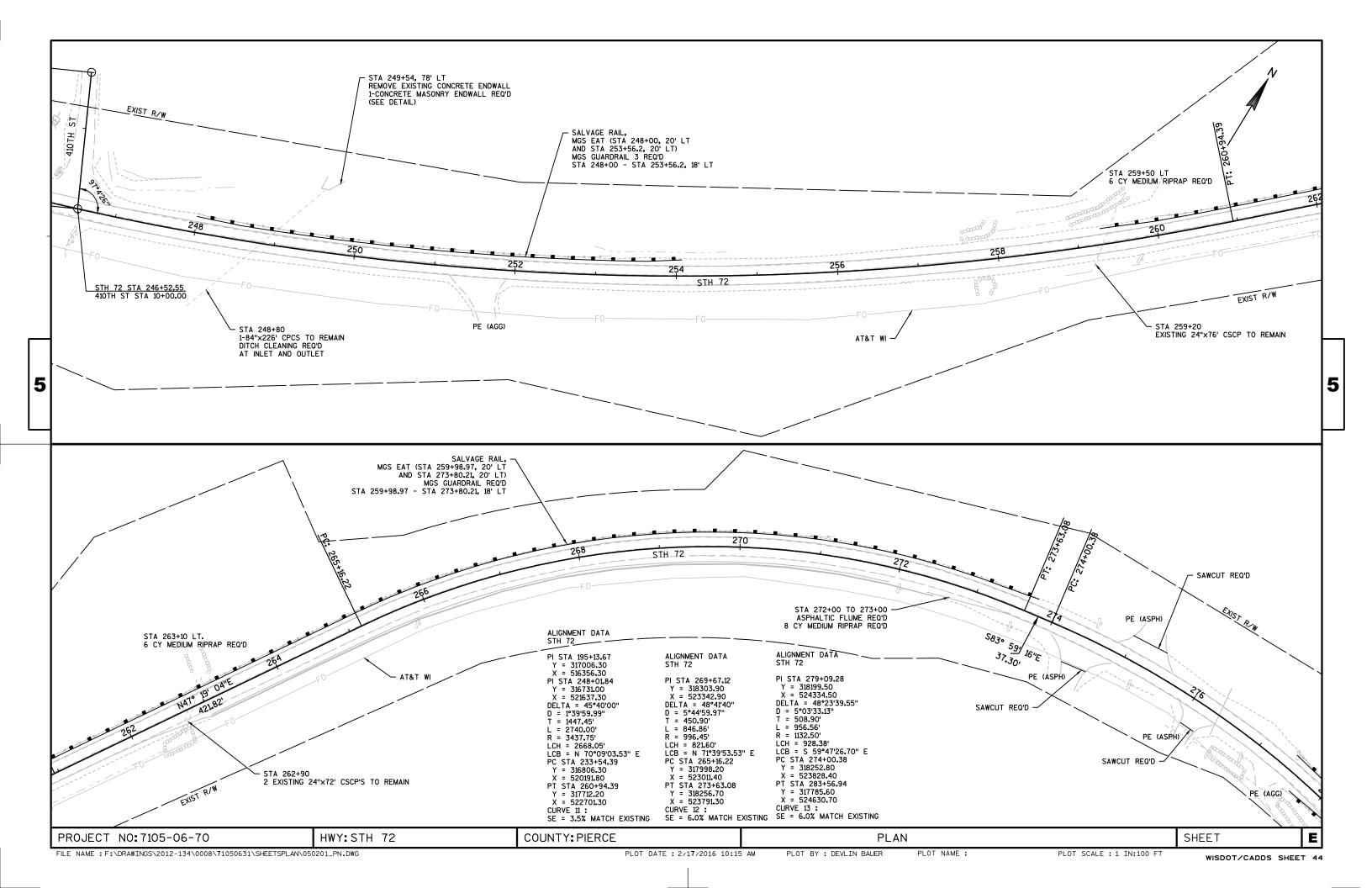


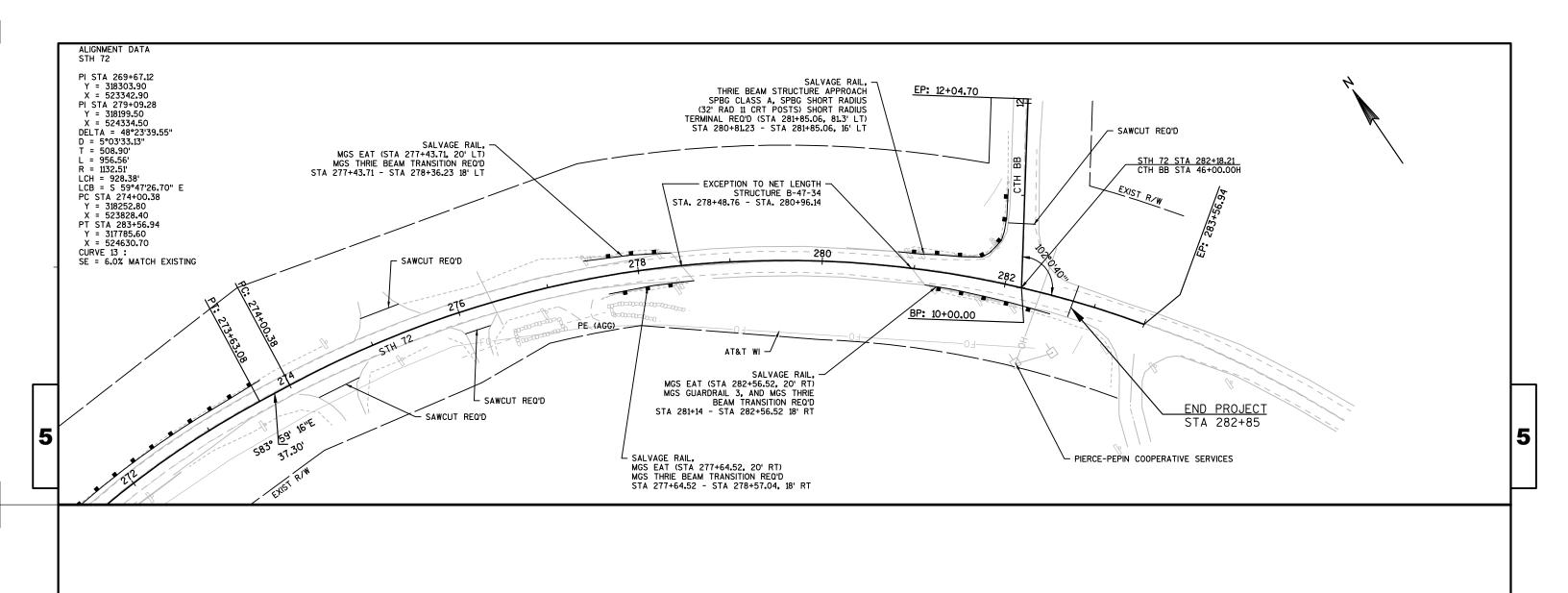












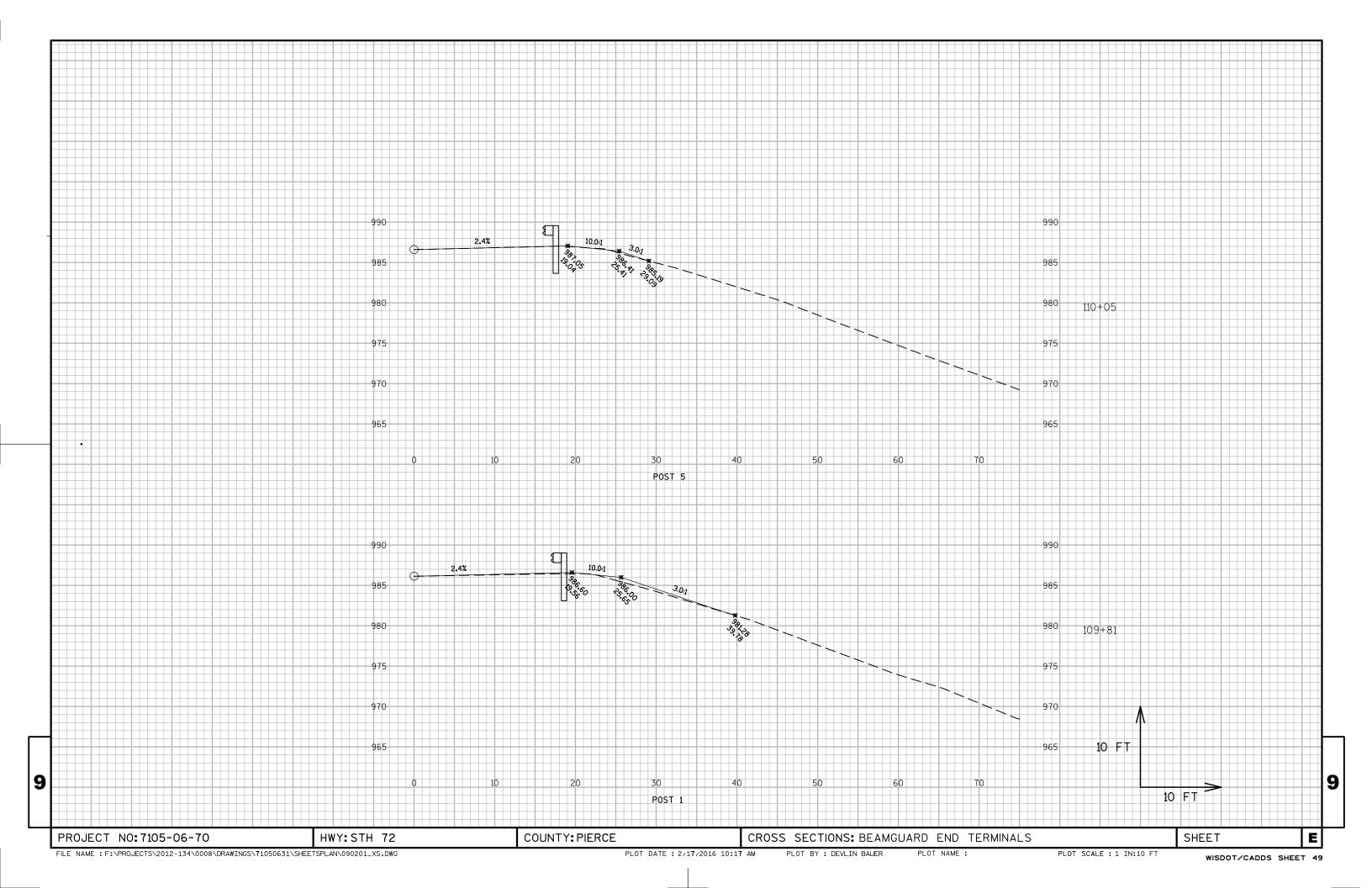
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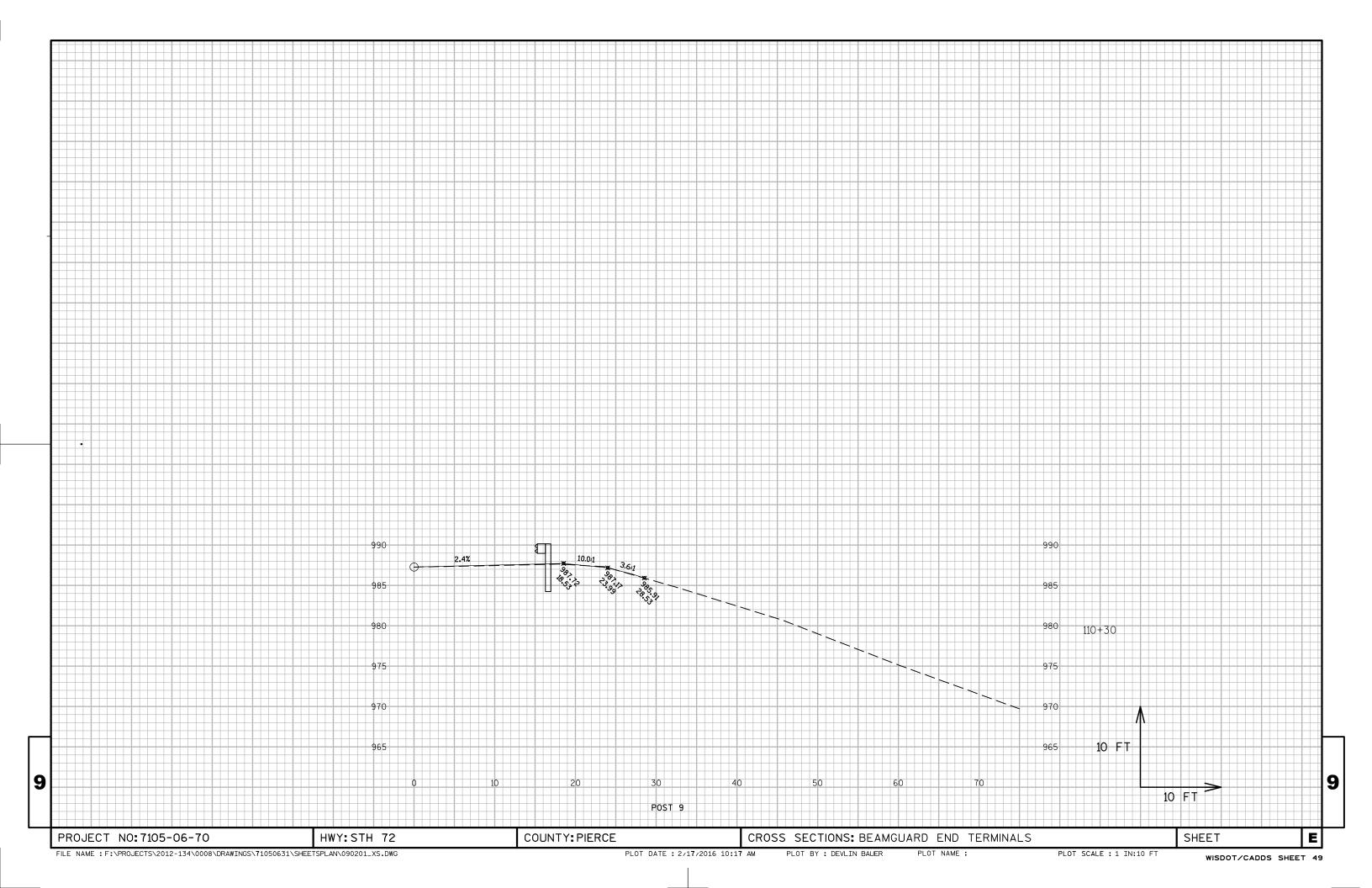
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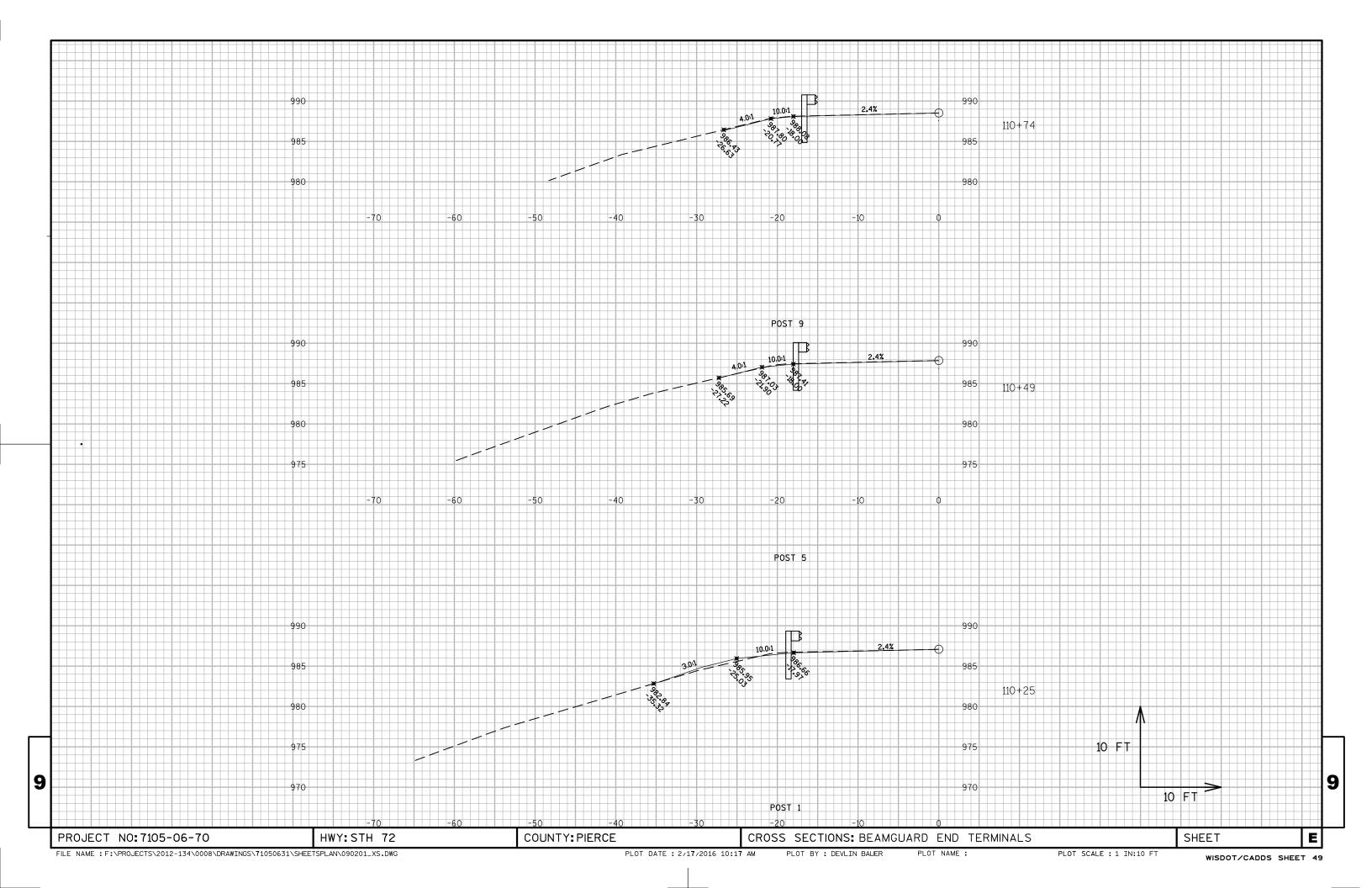
PLOT DATE: 2/17/2016 10:15 AM

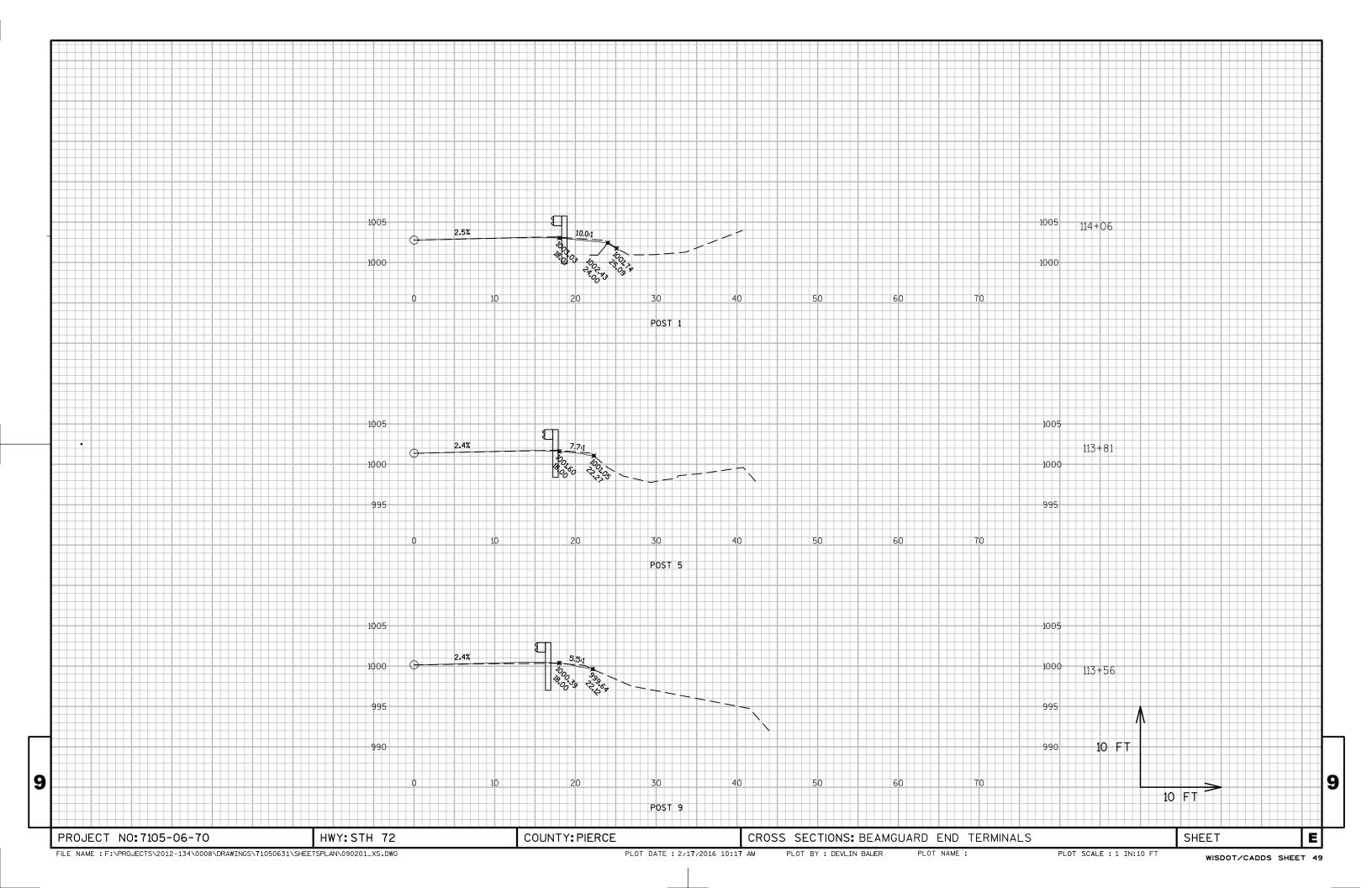
PLOT BY : DEVLIN BAUER

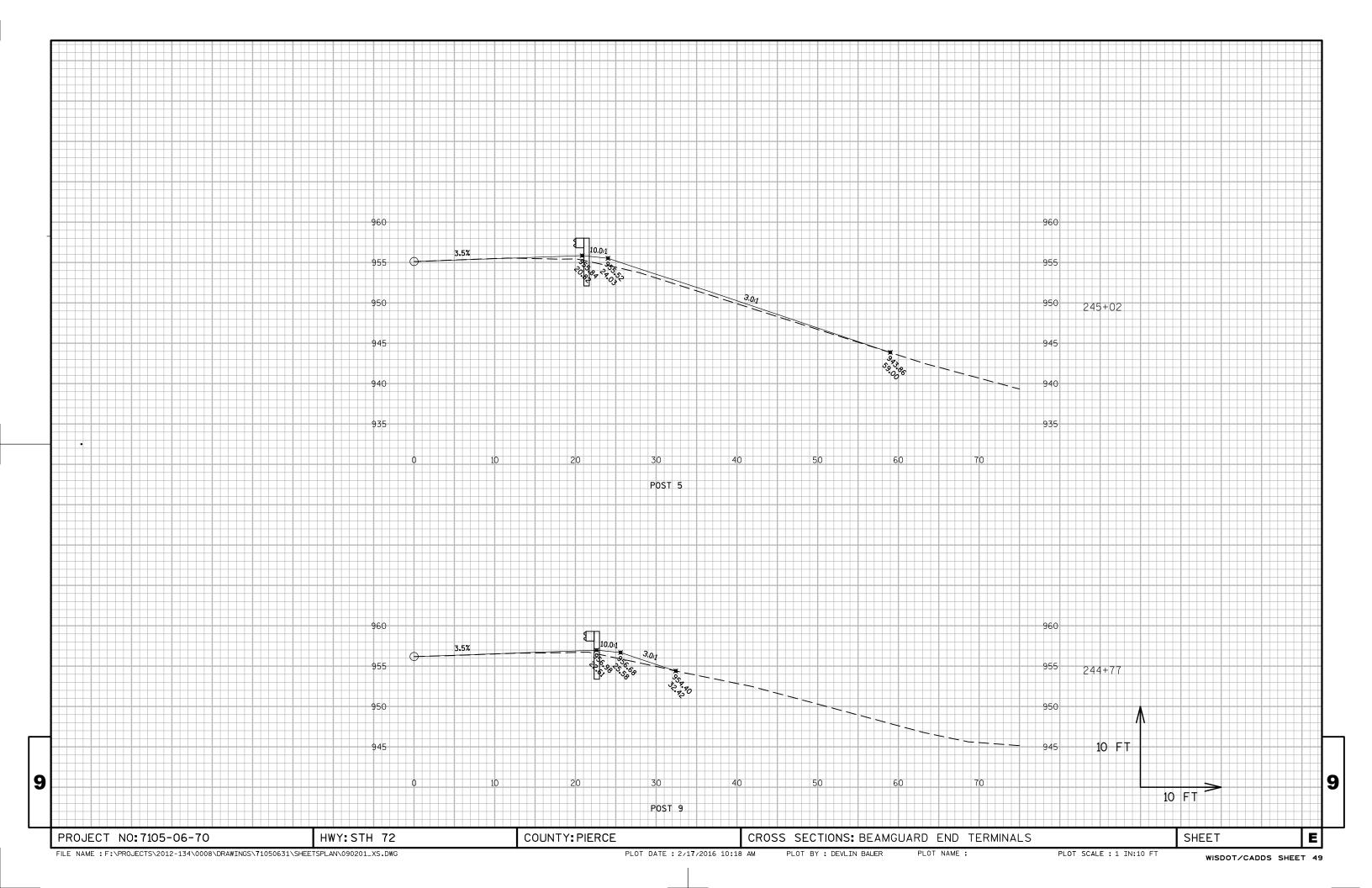
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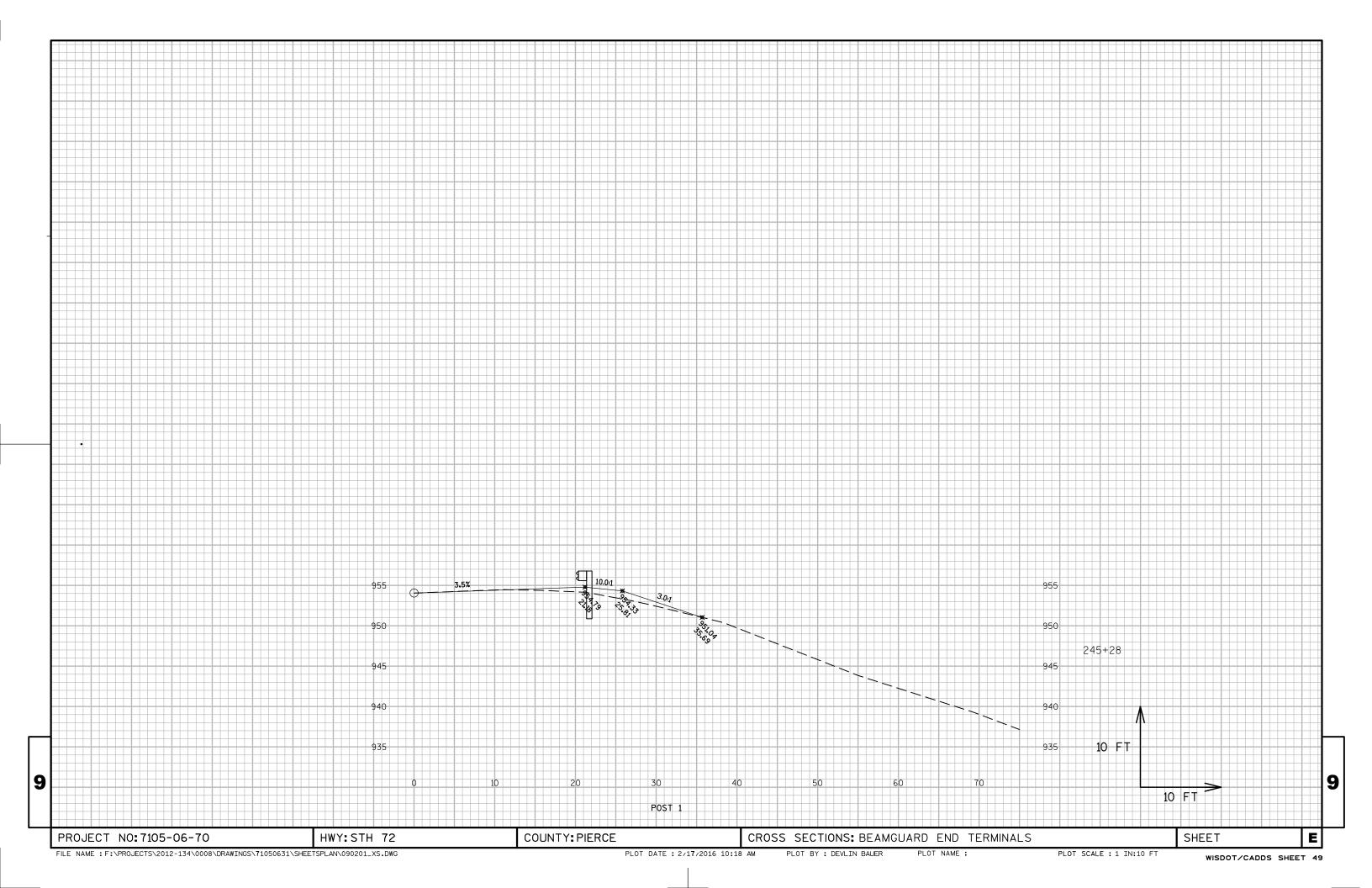


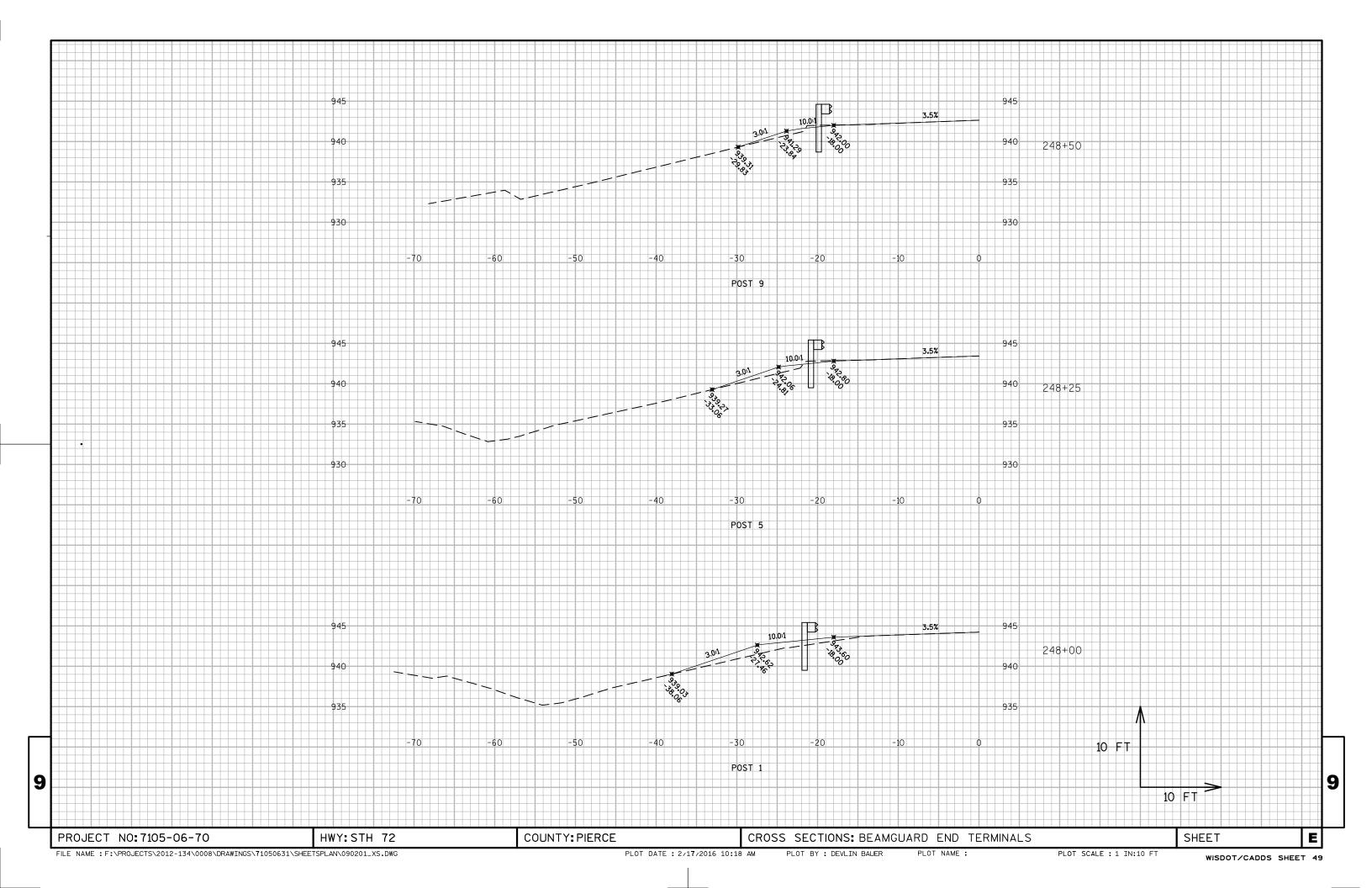


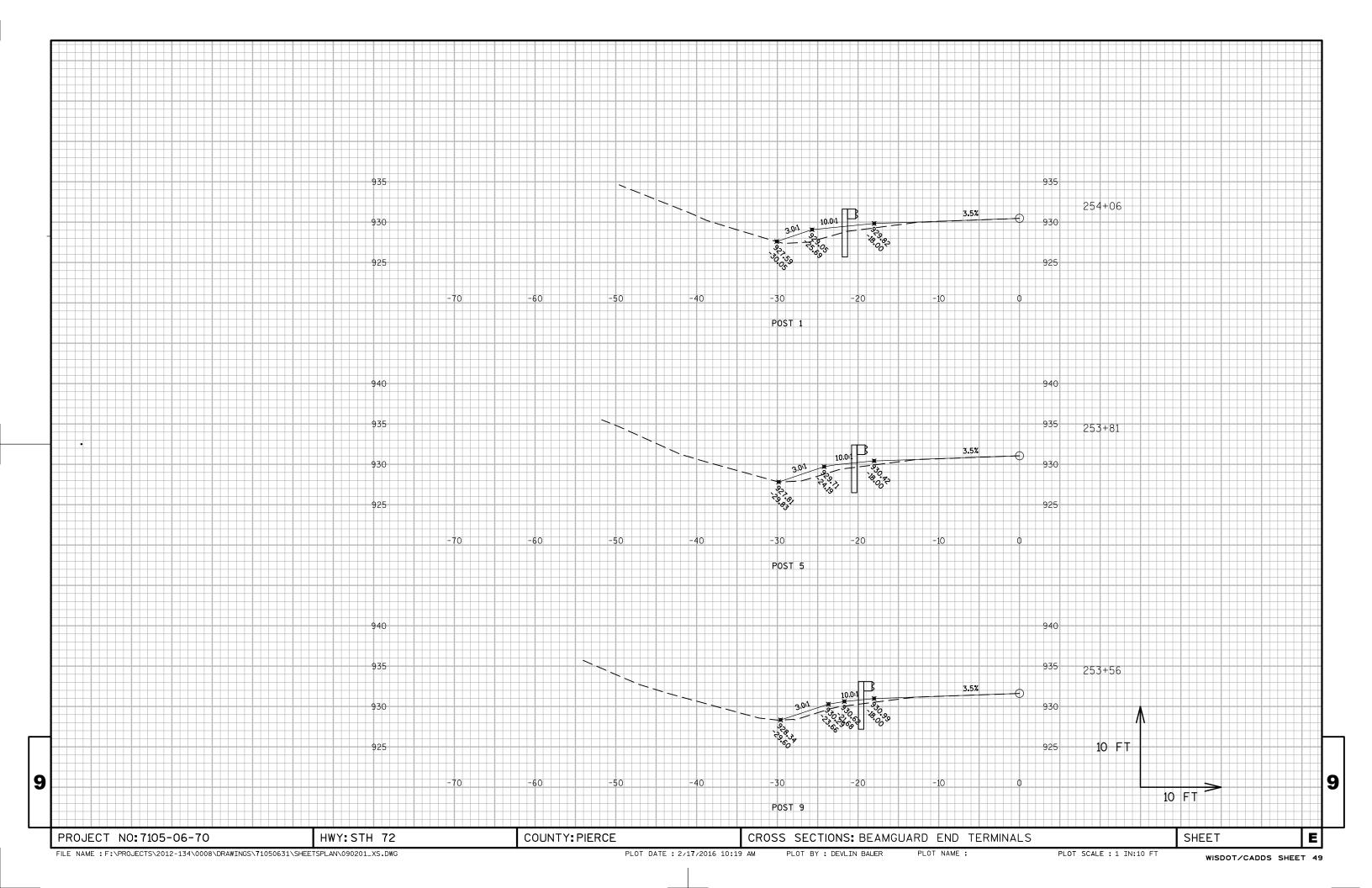


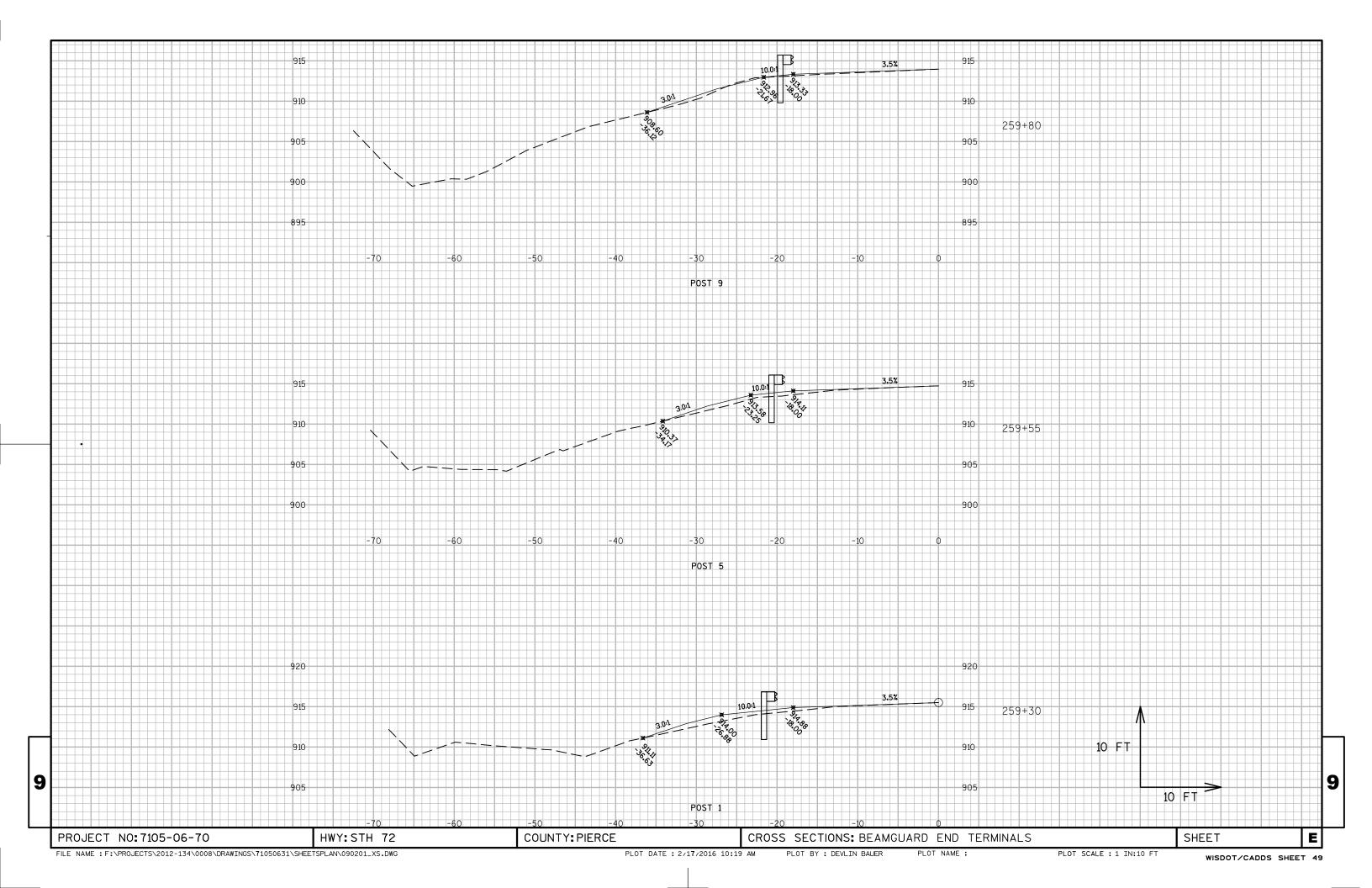


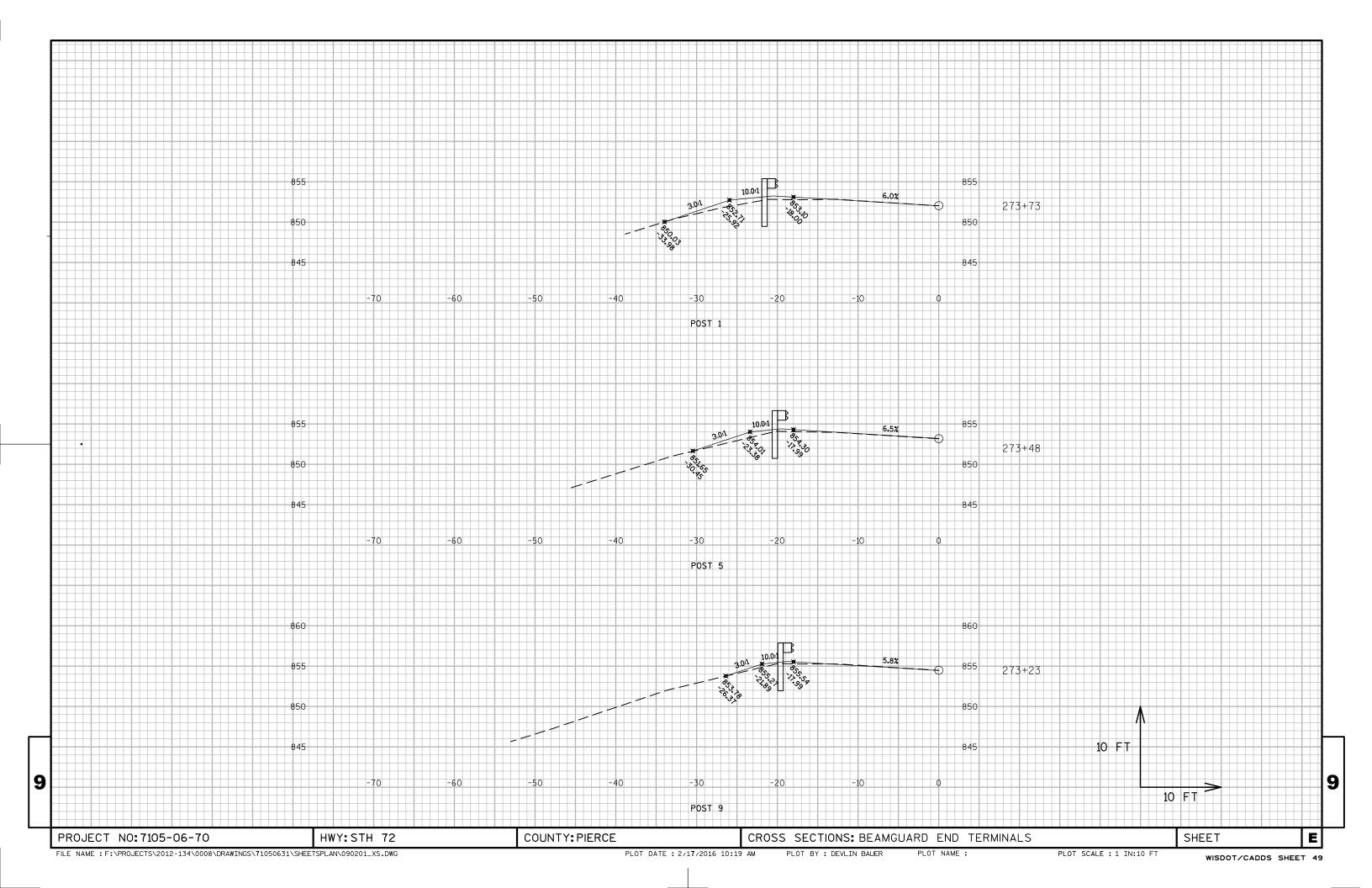


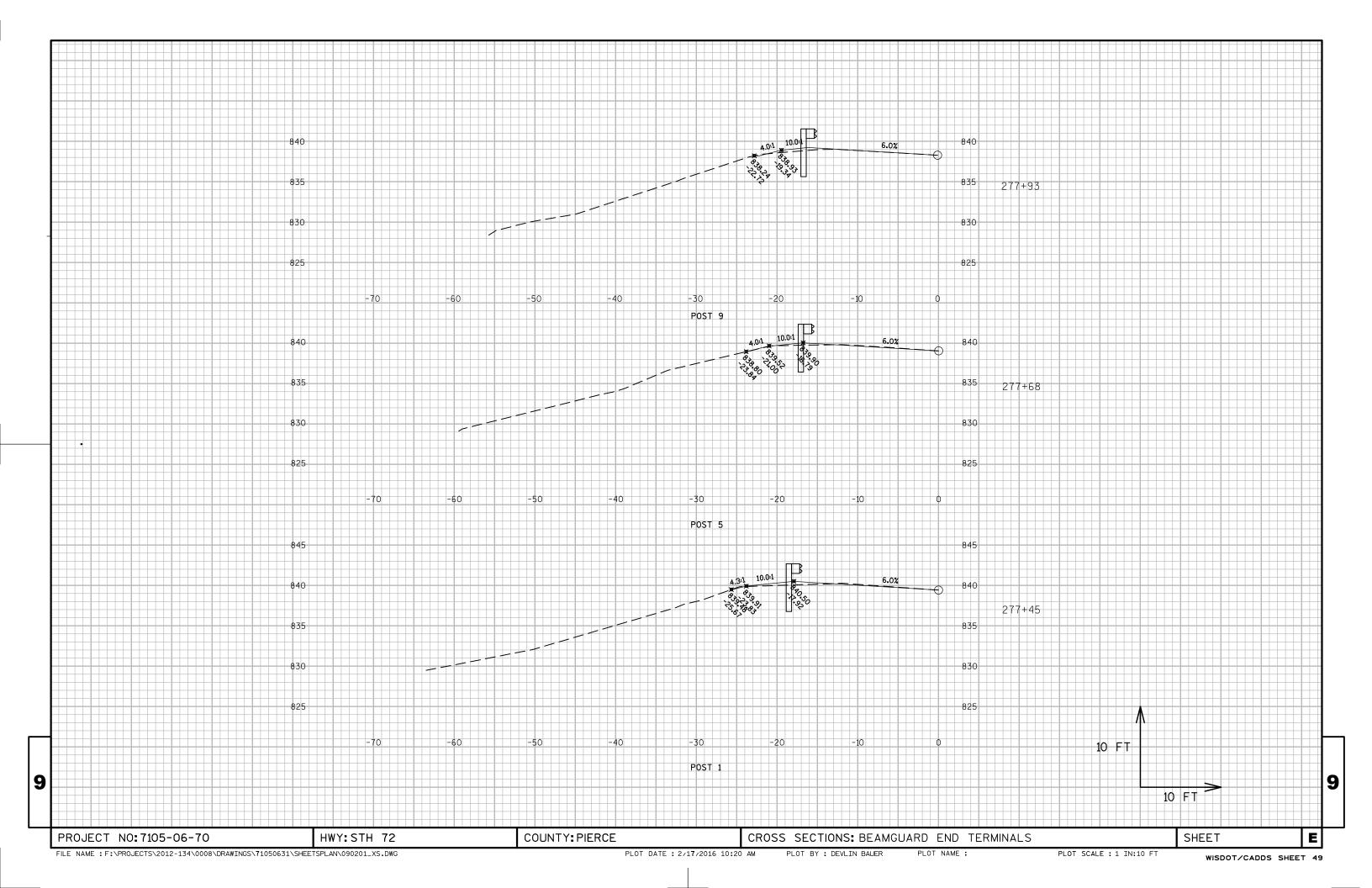


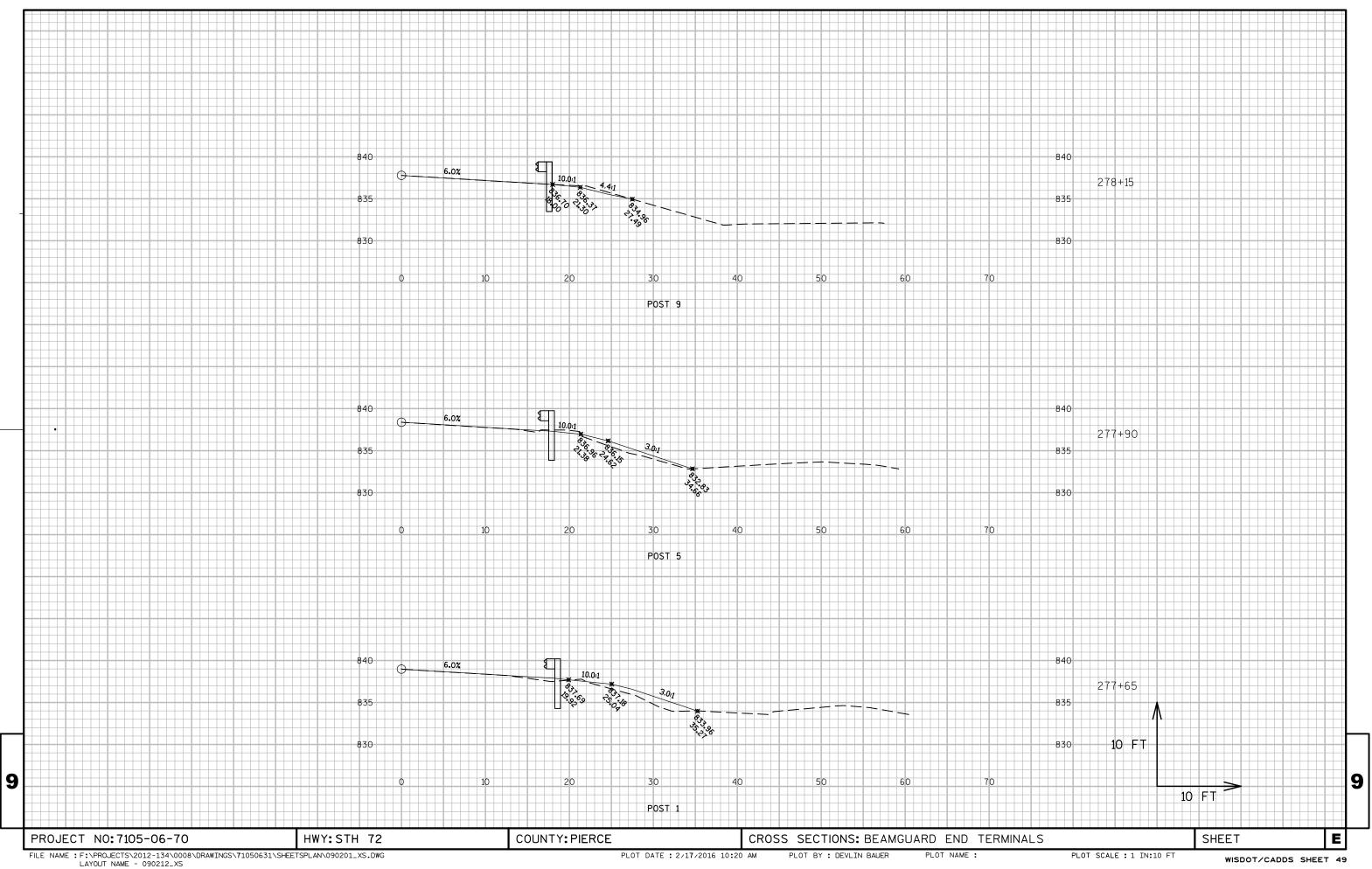


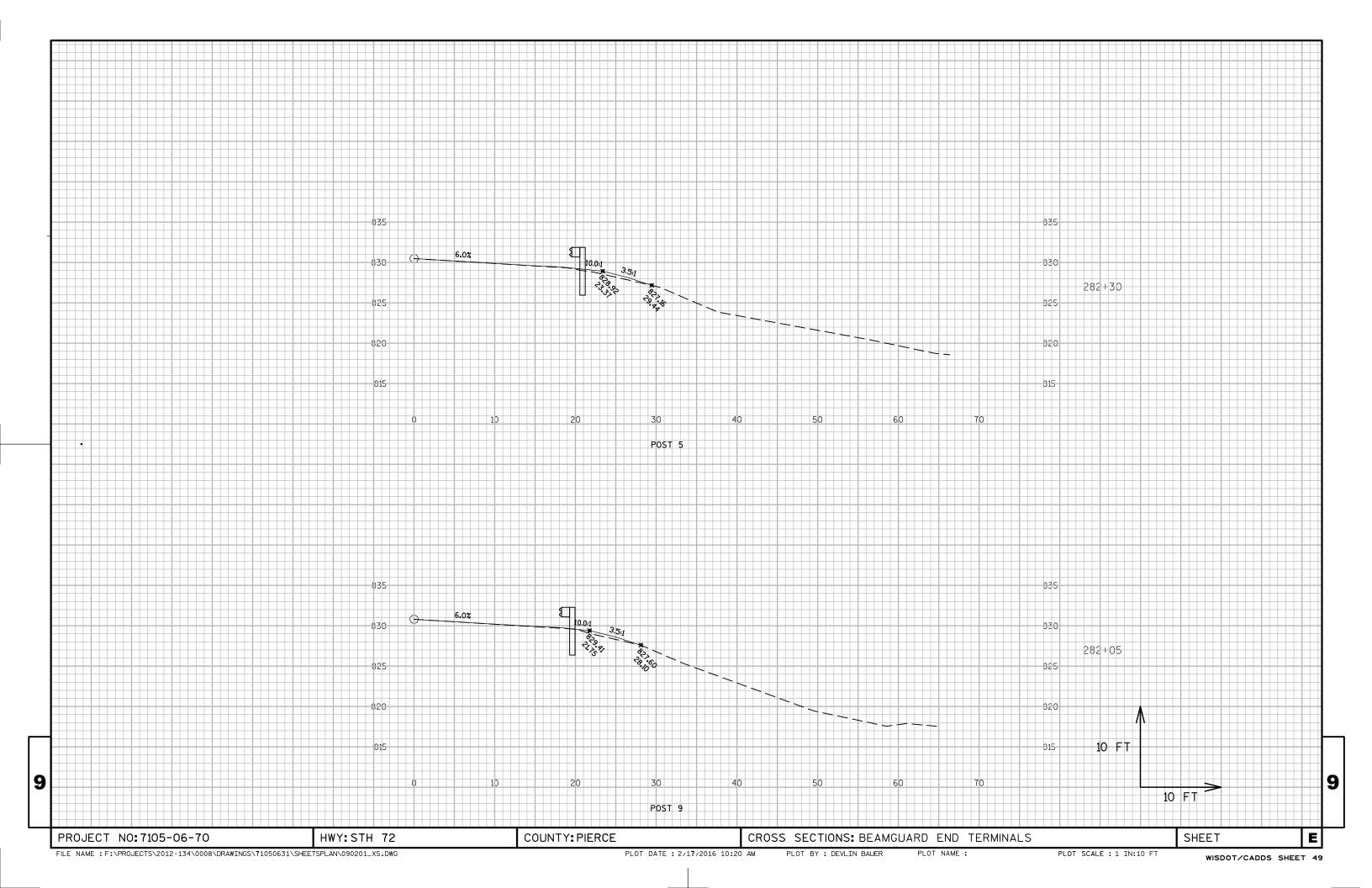


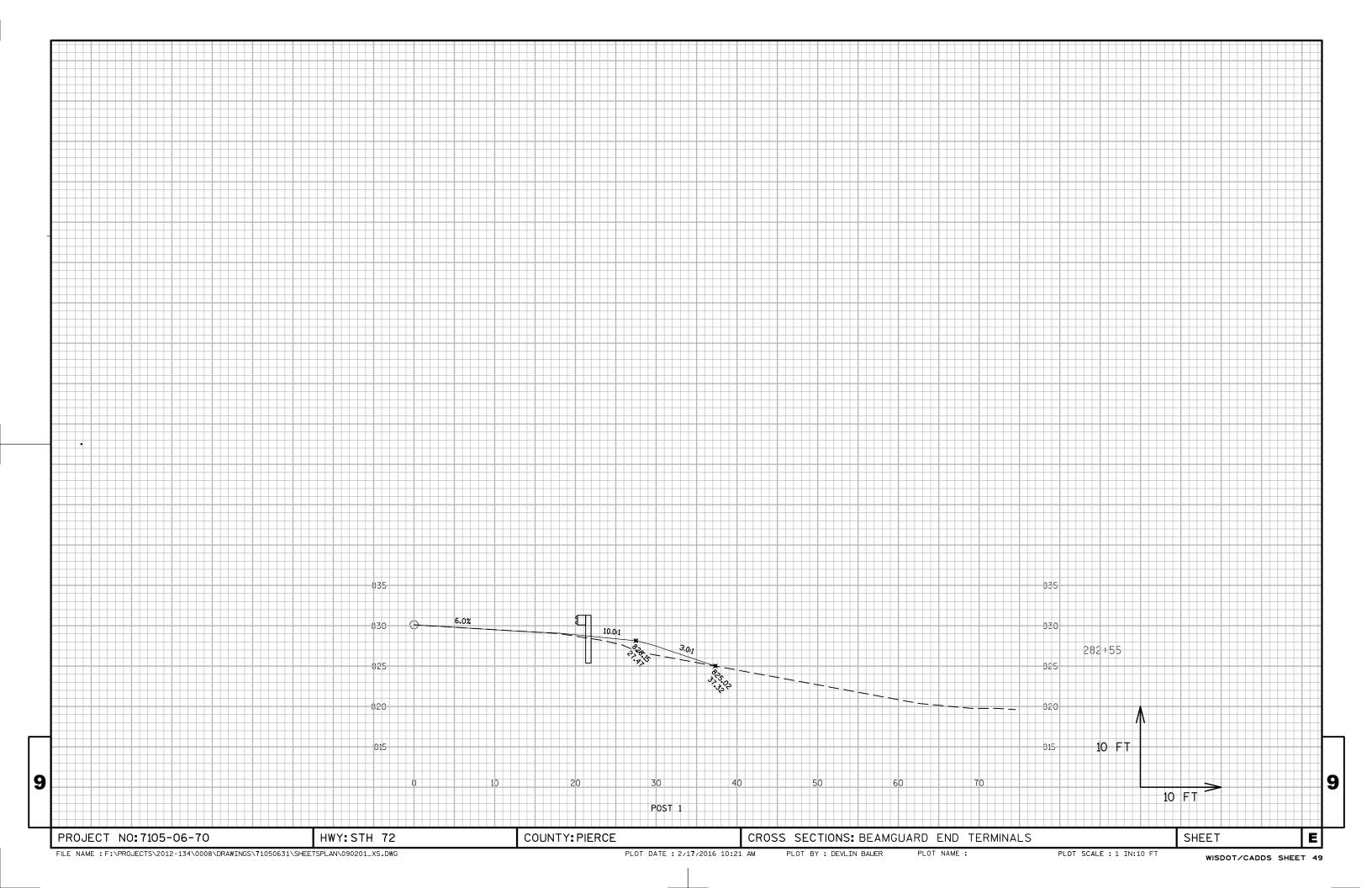








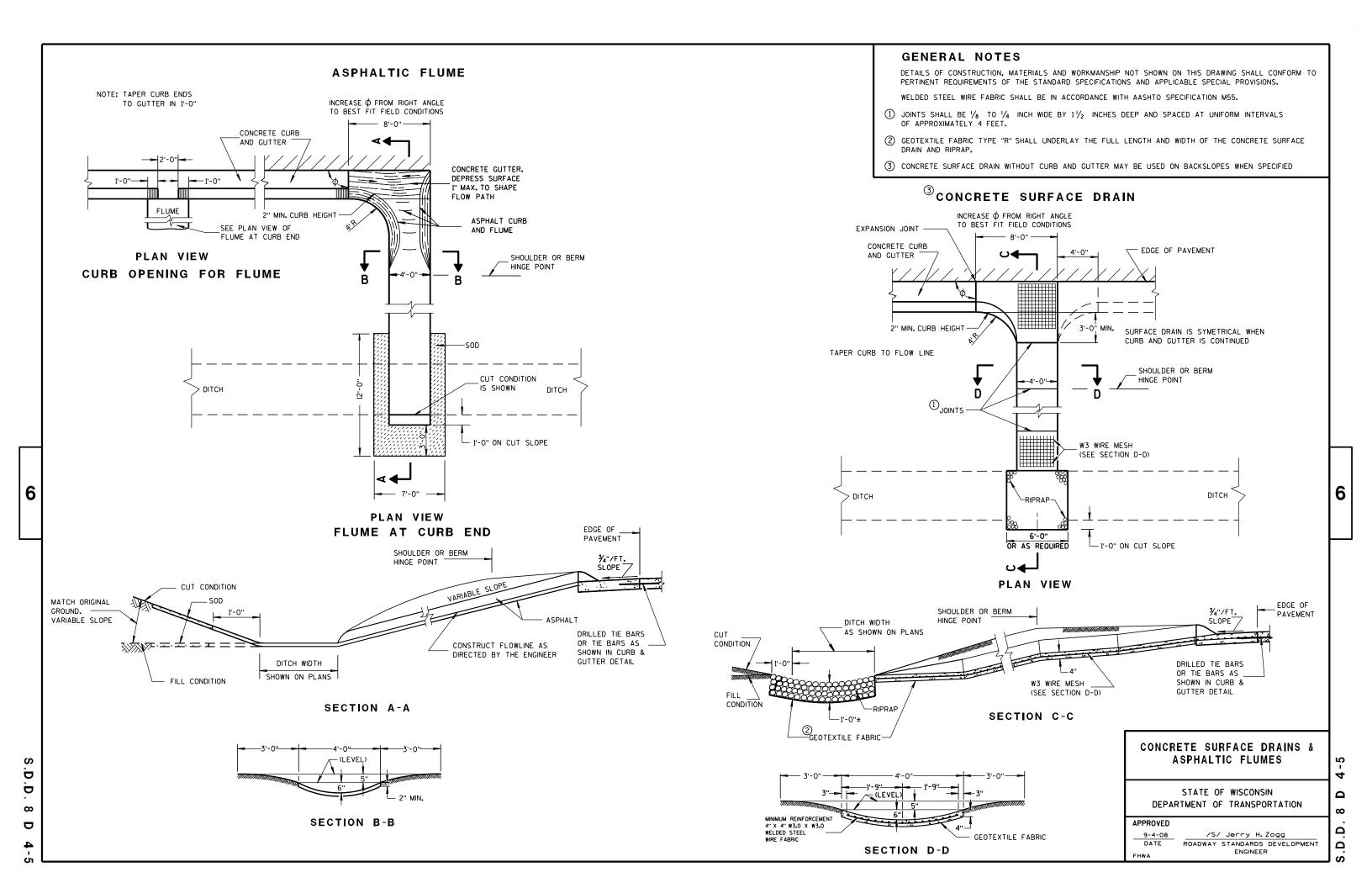




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Standard Detail Drawing List

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08D04-05
               CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03
               TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06
               SILT FENCE
08F01-11
               APRON ENDWALLS FOR CULVERT PIPE
08F10-01
               CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
13A11-02A
               2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B
               2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-08A
               STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
               STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B15-08B
14B15-08C
14B16-04A
               ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B
               ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
               STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B18-06A
14B20-11A
               STEEL THRIE BEAM STRUCTURE APPROACH
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
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
14B29-01
               SAFETY EDGE
14B42-03A
               MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B
               MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C
               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)
14B45-04D
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I
14B45-04J
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K
14B45-04L
               MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A
               FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B
               FLEXIBLE MARKER POST FOR CULVERT END
15C04-03
               TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A
               PAVEMENT MARKING (MAINLINE)
15C08-16B
               PAVEMENT MARKING (INTERSECTIONS)
15C12-04
               TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D28-03
               TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
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GENERAL NOTES

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

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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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

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			1	METAL	APR	ON EN	NDWAL	.LS			
PIPE MIN. THICK.				DIMENSIONS (Inches)							
DIA.	(Incl		A	В	Н	L	Γį	L ₂	W	APPROX.	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	REINFORCED CONCRETE APRON ENDWALLS							
PIPE	DIMENSIONS (Inches)							
DIA.	T	A	В	С	D	Ε	G	APPROX. SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2	* ** 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

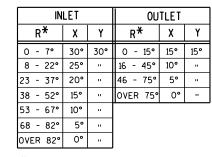
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

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

FILL SLOPES FLATTER THAN 2 $\frac{1}{2}$:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

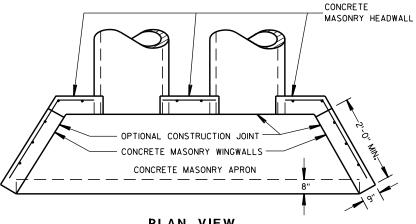
ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

- MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.
- 2 THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

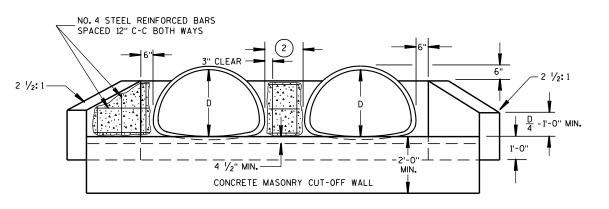
 DIAMETER OR SPAN
 SPACE

 UP TO AND INCLUDING 48"
 2'-0"

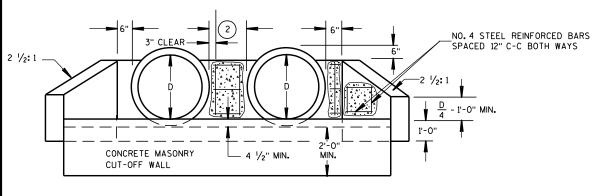
 OVER 48" TO 72"
 ½ DIA. OR SPAN



PLAN VIEW
CULVERT PIPE AND PIPE ARCH

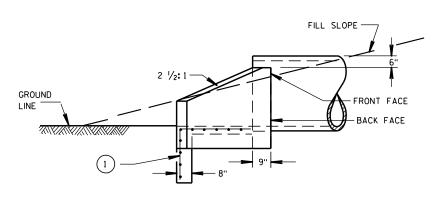


PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS
FOR CULVERT PIPE AND
PIPE ARCH

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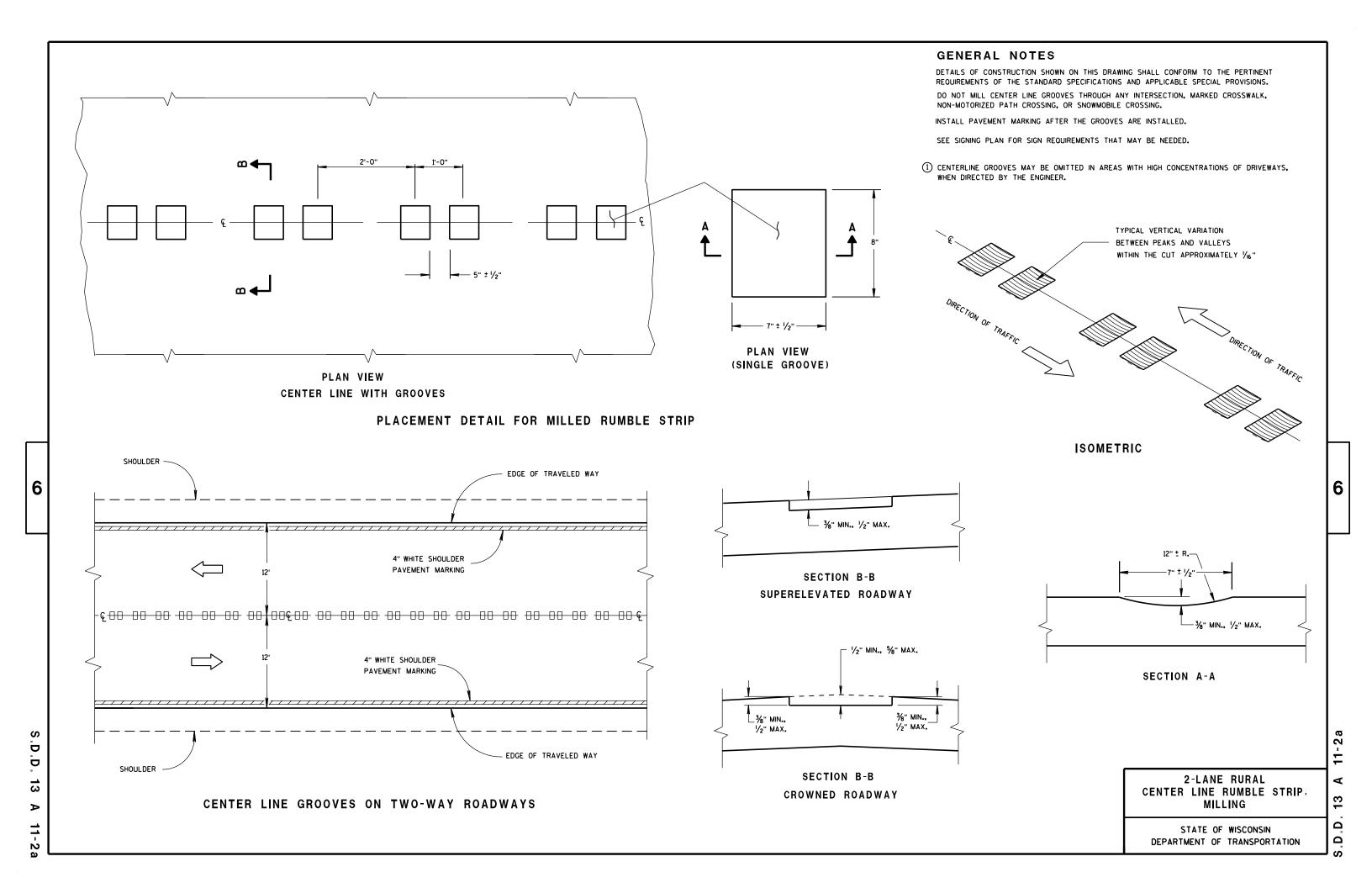
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

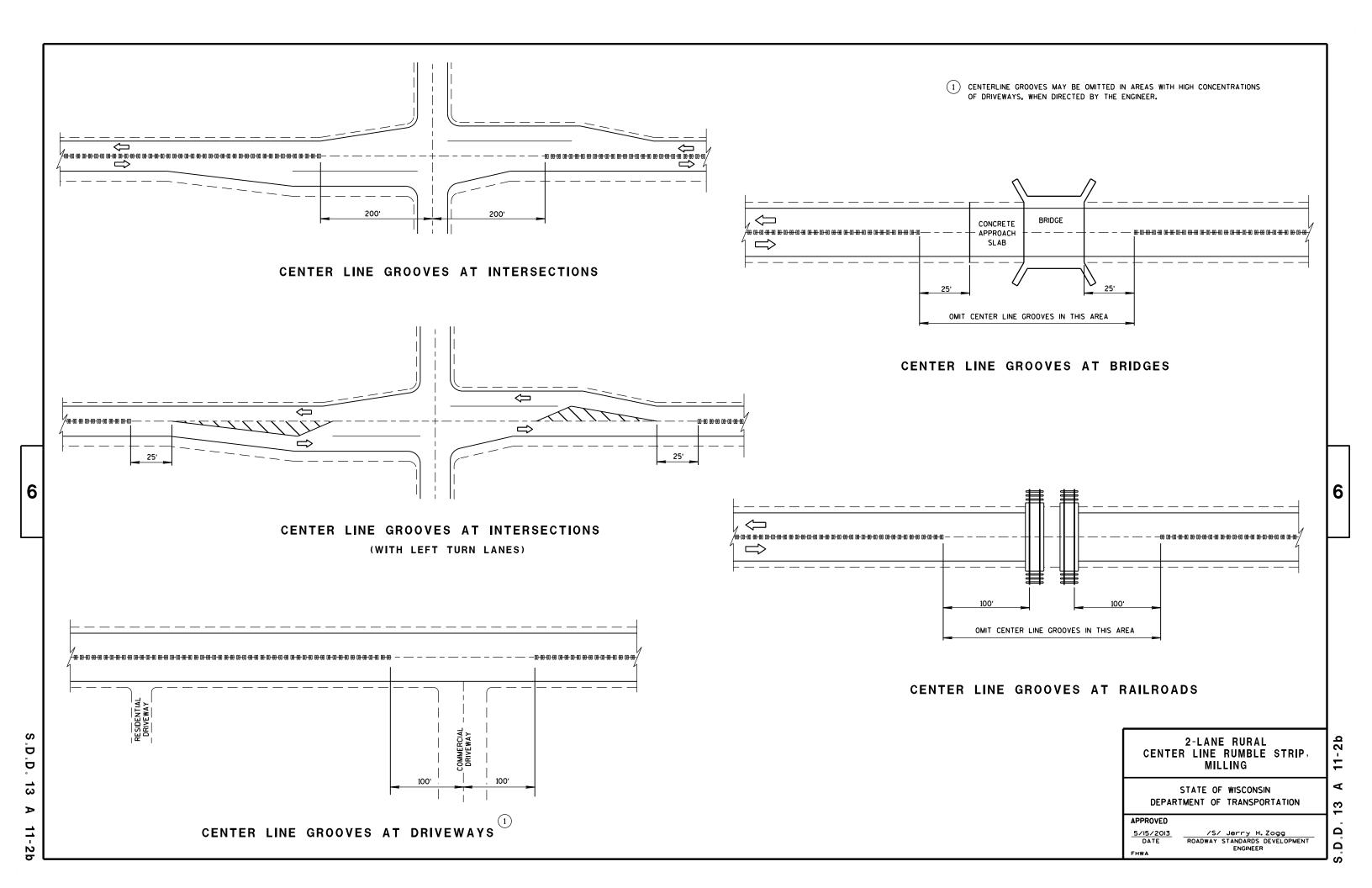
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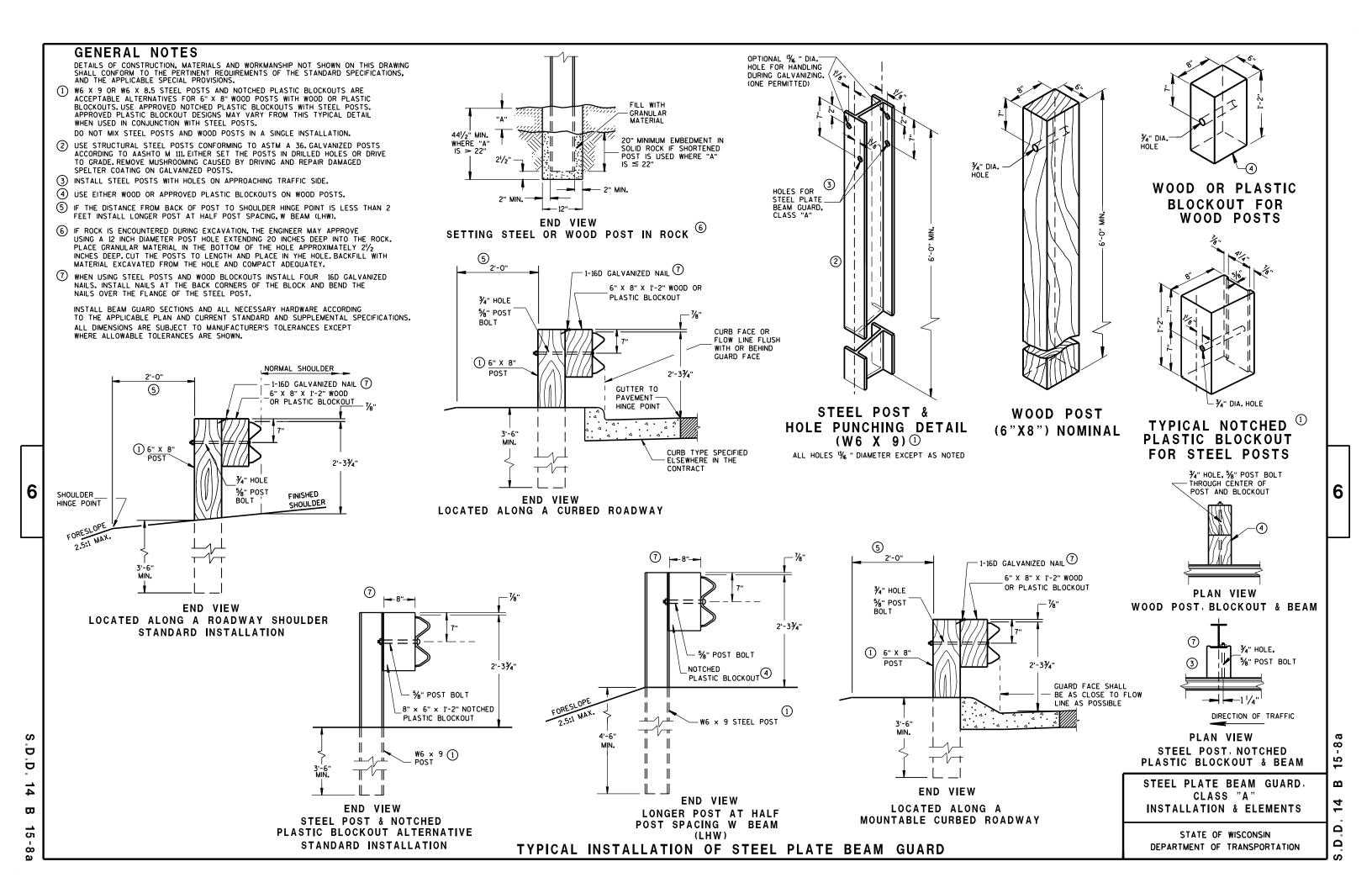
9/14/98 / S/ Rory L. Rhinesmith

CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 F 10







FRONT VIEW

POST SPACING STANDARD INSTALLATION

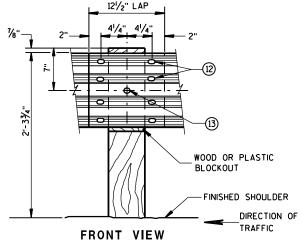
SECTION THRU W

SYMMETRICAL

∕-12 GAGE

BEAM

¯ABOUT €



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

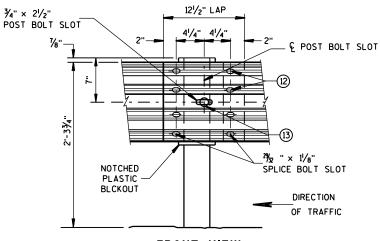
GENERAL NOTES

- (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.
- (1) 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.

12'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM 3'-1\/2" C-C 3'-1\/2" C-C 3'-1\/2" C-C 3'-1\/2" C-C POST POST POST POST SPACING SPACING SPACING SPACING FINISHED DIRECTION OF TRAFFIC

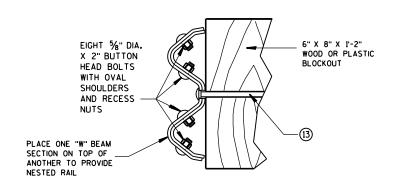
FRONT VIEW

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

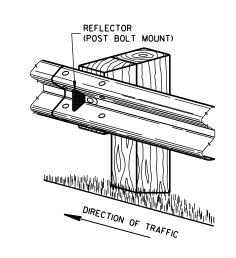


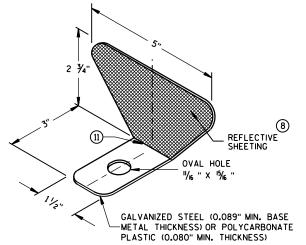
NESTED W BEAM (NW)

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 TRAFFIC	< 500,	50' C-C	1 1	3
TWO WAY TRAFFIC	> 500. < 500.	25' C-C 50' C-C	1 100	6
TWO WAY TRAFFIC	> 500, < 500,	50' C-C 100' C-C	2(11)	3





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION $^{\circ}$

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

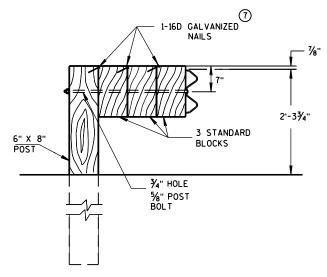
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DETAIL FOR DOUBLE BLOCKS

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

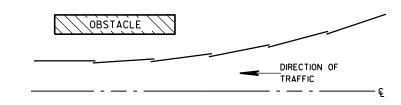


DETAIL FOR TRIPLE BLOCKS

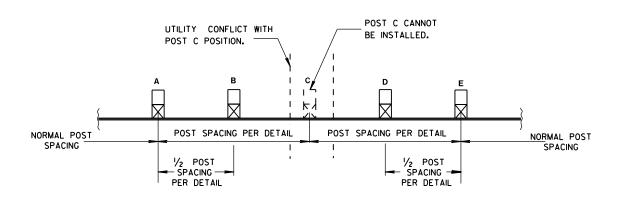
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

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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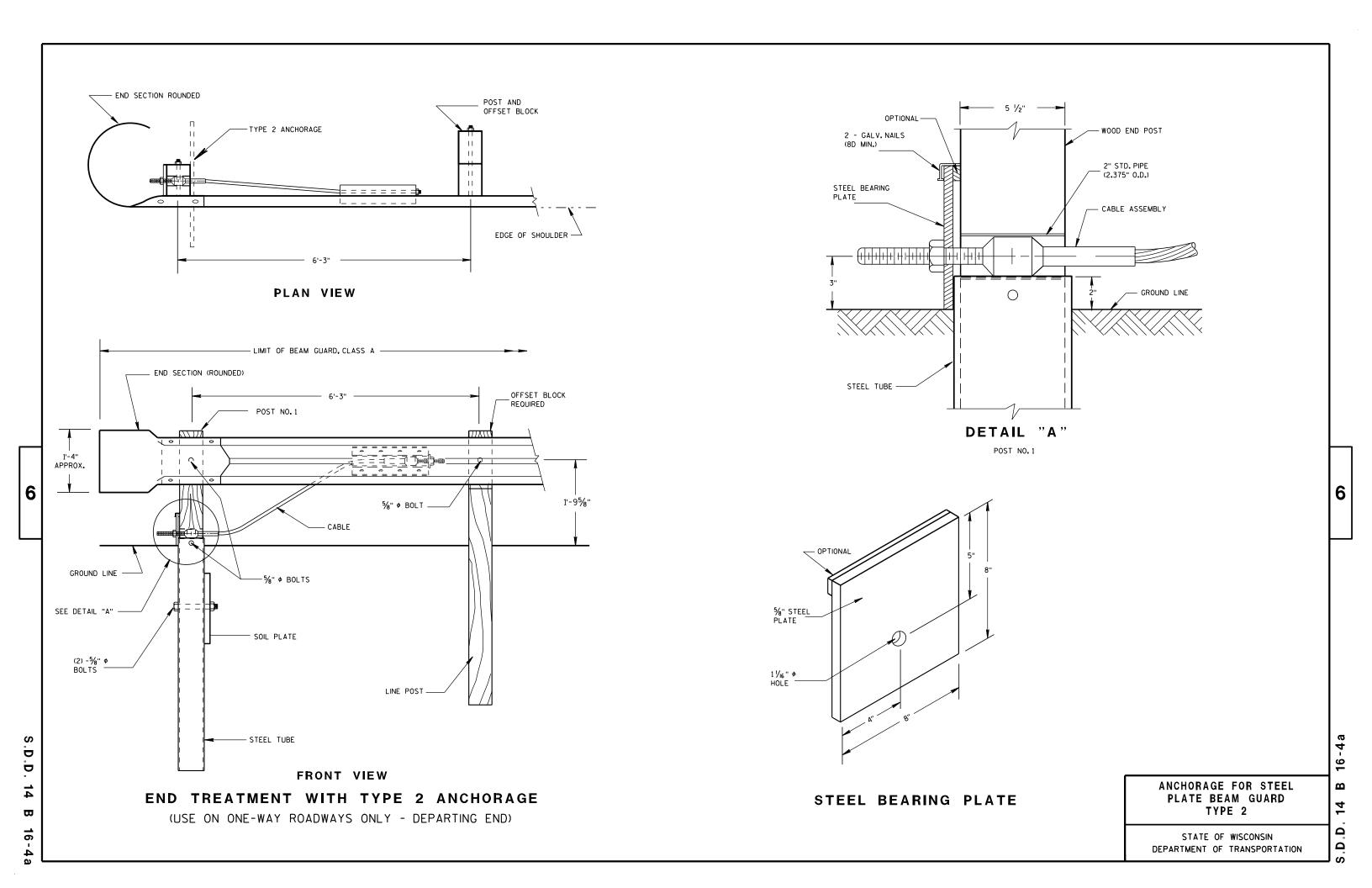
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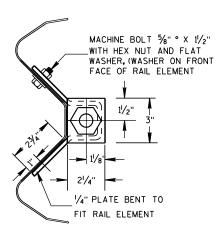
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
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DATE
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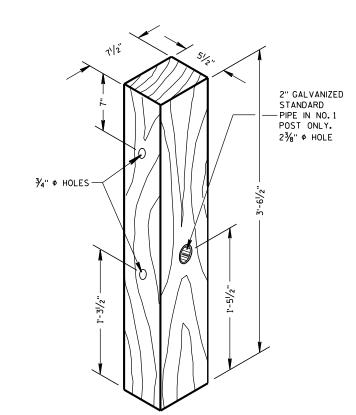




FRONT VIEW

END VIEW

ANCHOR PLATE DETAIL



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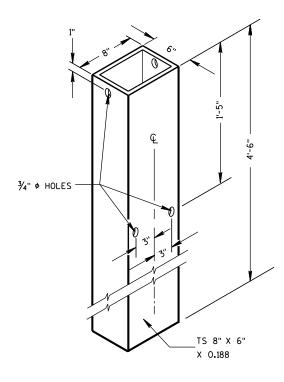
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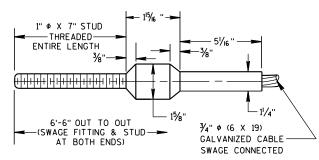
WOOD BREAKAWAY POST



STEEL TUBE

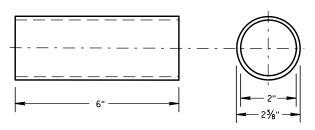
STEEL TUBE SHALL CONFORM TO REQUIREMENTS OF ASTM A500

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"

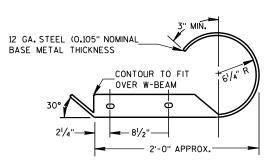
GENERAL NOTES

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.

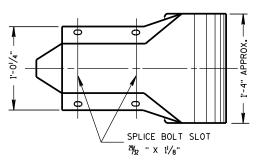
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

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

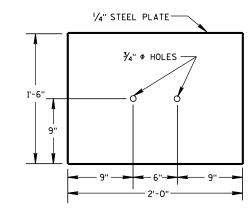
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



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

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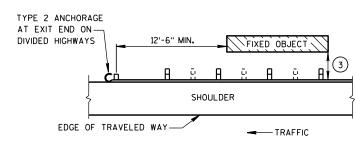
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER 8/21/2007

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BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

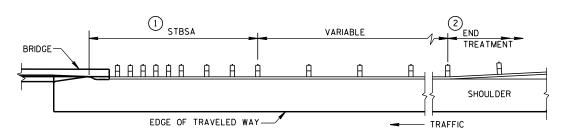
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

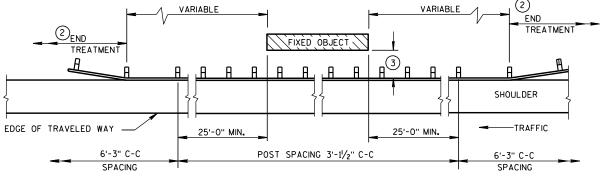
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (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"

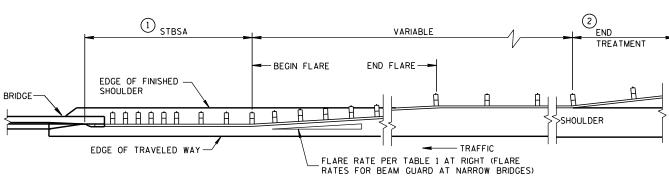


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

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



BEAN	M GUARD	AT	NAR	ROW E	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

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DEPARTMENT OF TRANSPORTATION

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

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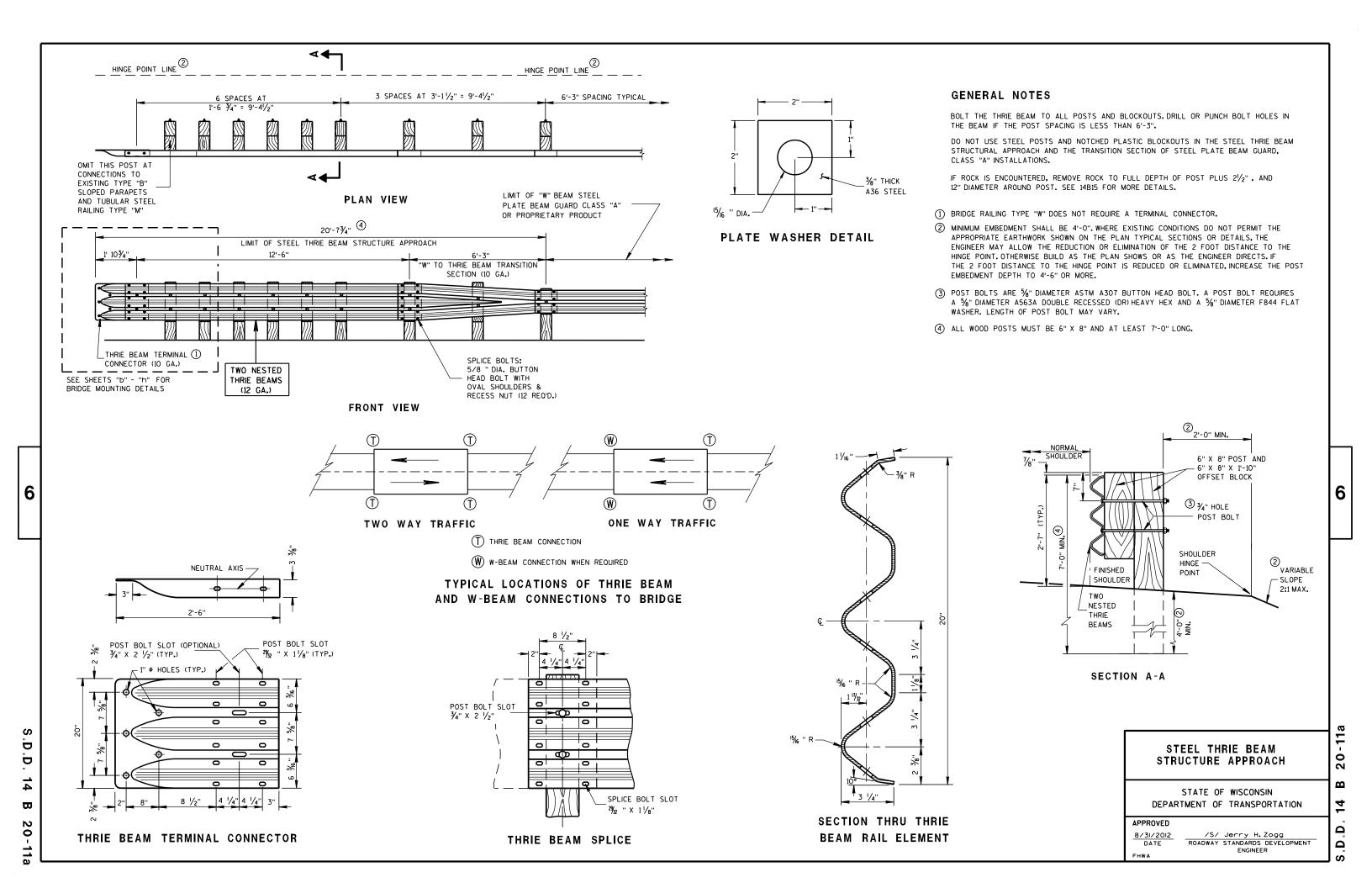
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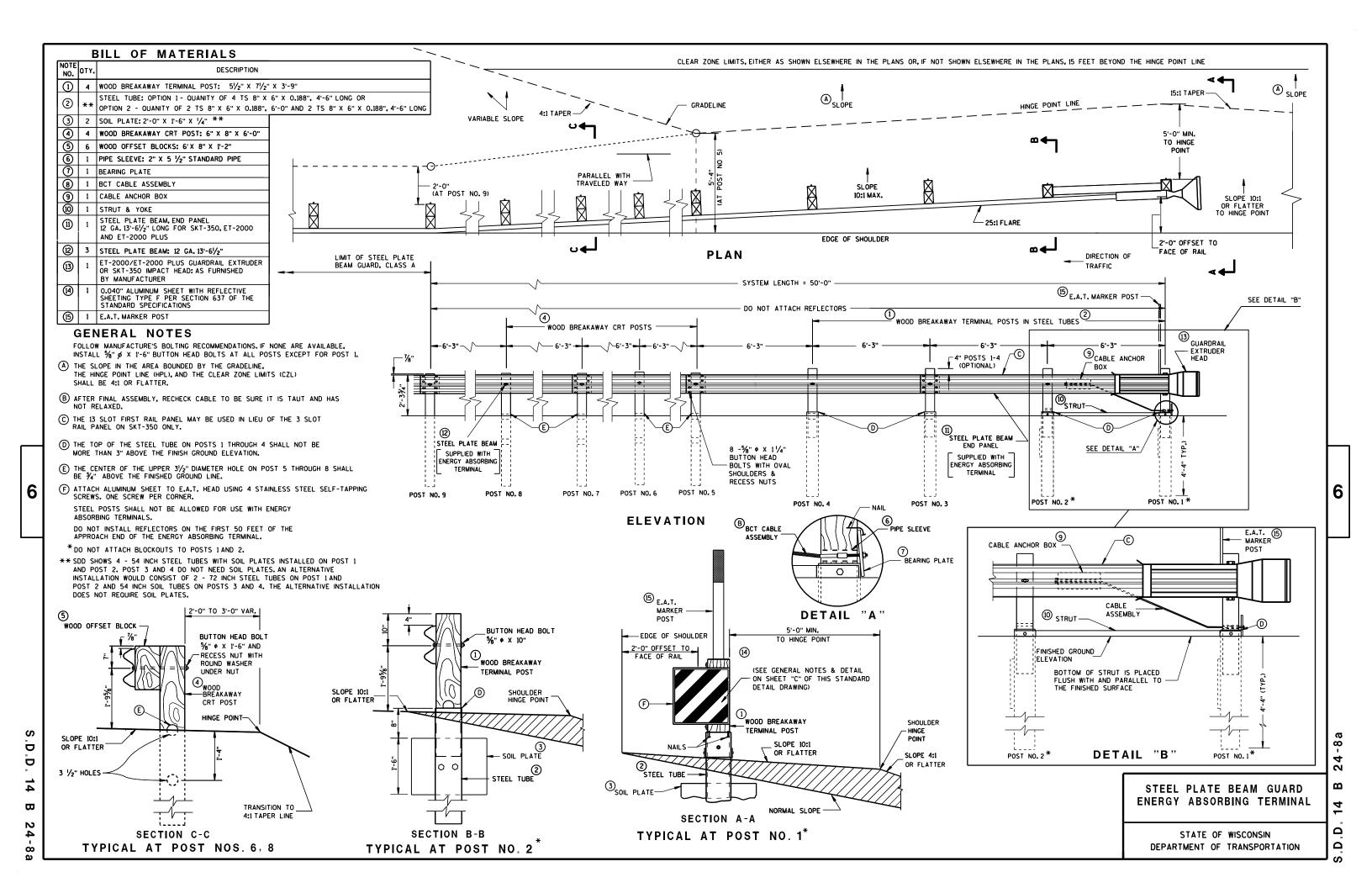
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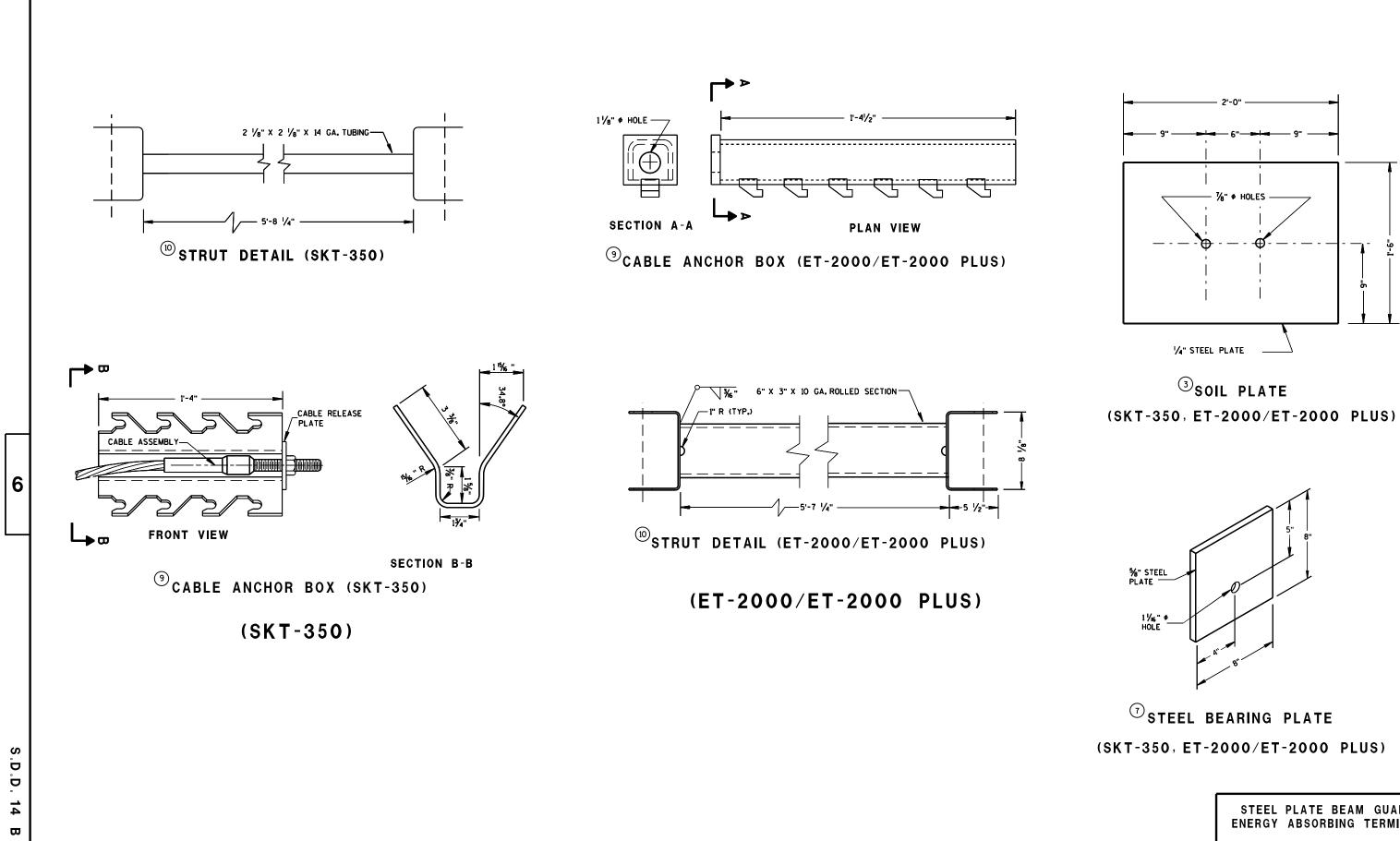
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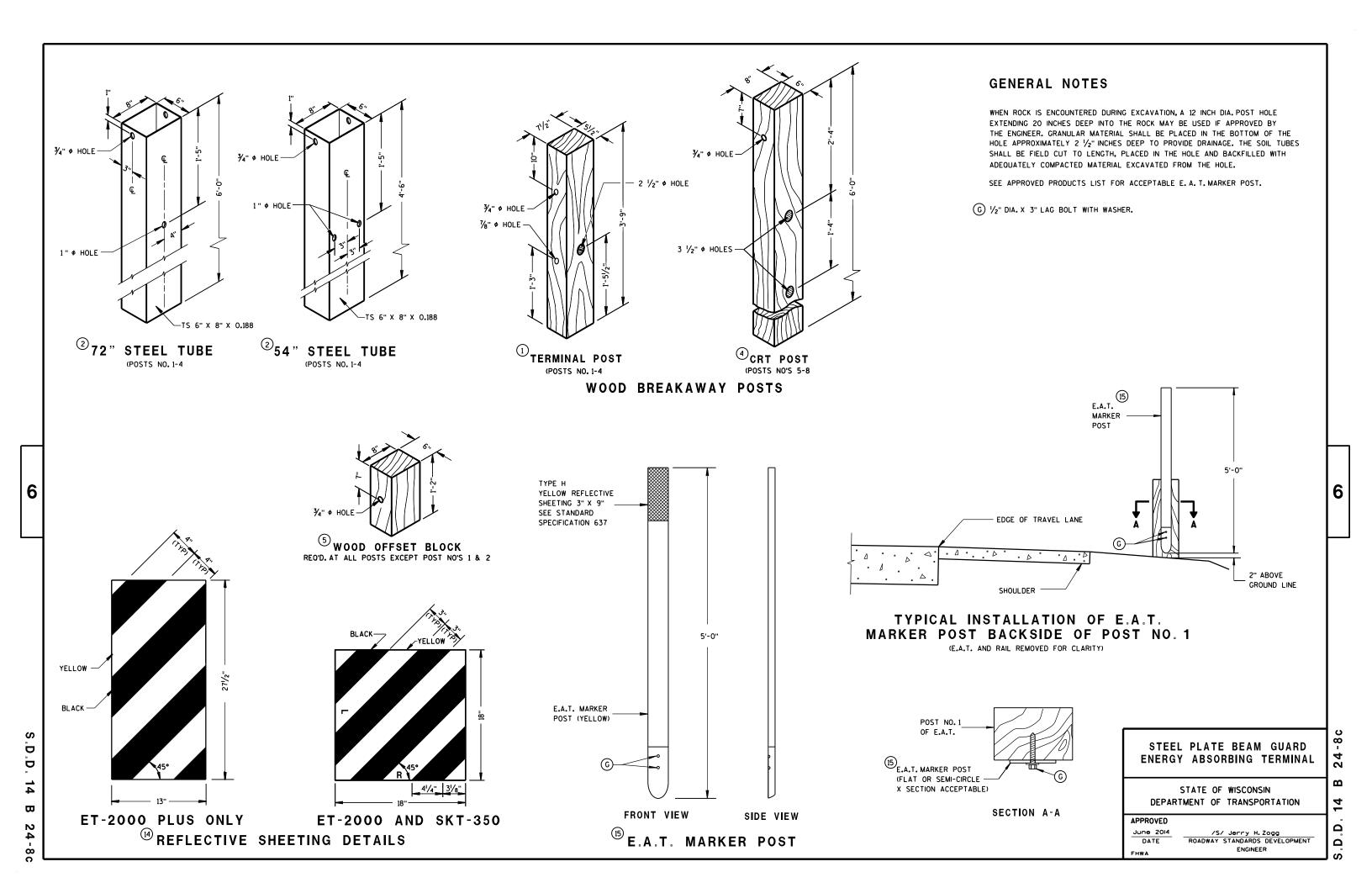




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STEEL PLATE BEAM GUARD **ENERGY ABSORBING TERMINAL**

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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.

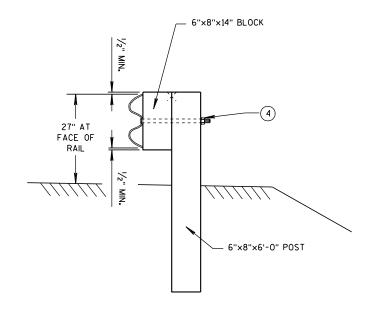
SHOP BEND CURVED RAIL SECTIONS.

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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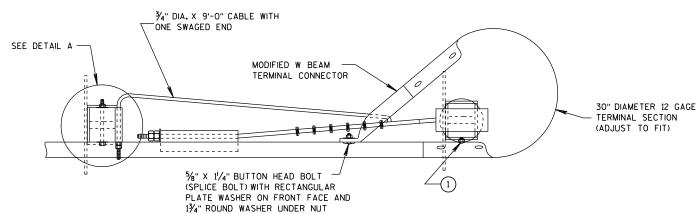
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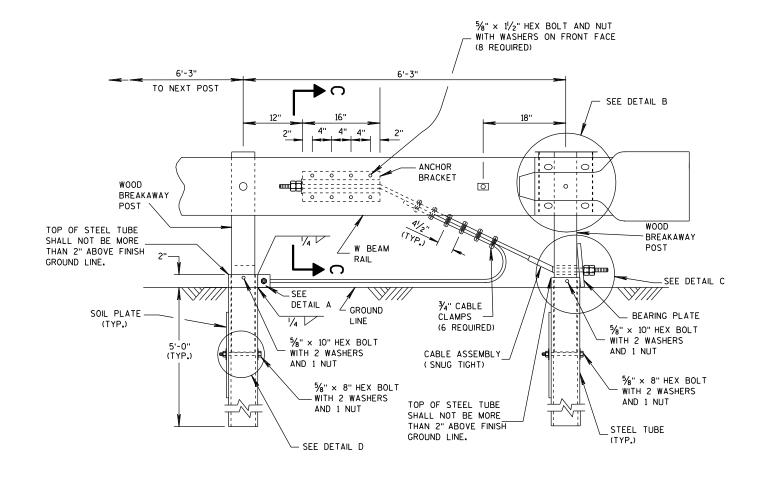
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PLAN VIEW



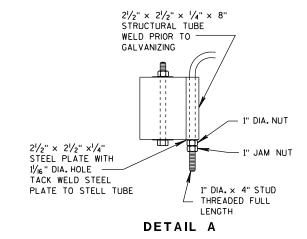
ELEVATION VIEW

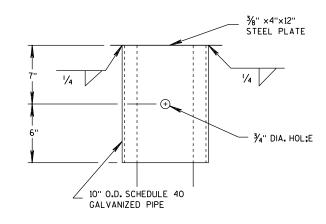
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

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.

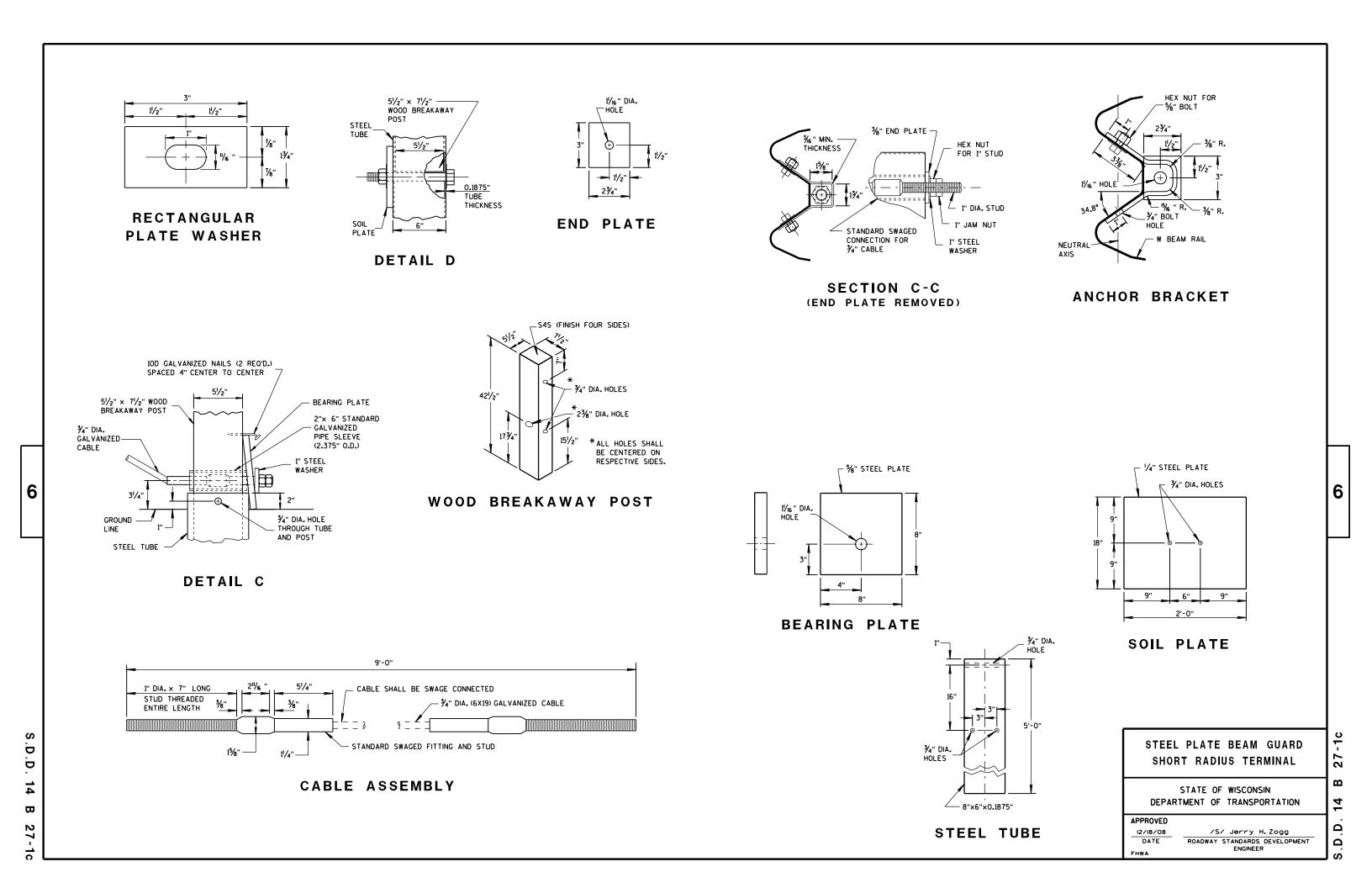


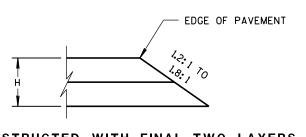


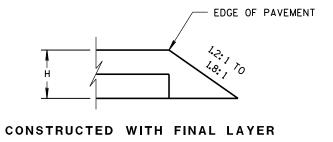
DETAIL B (BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



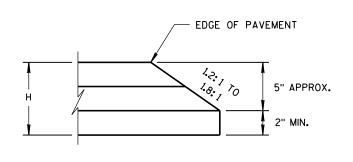


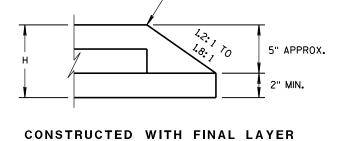


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





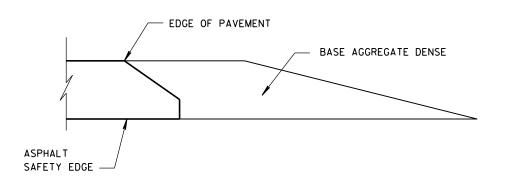
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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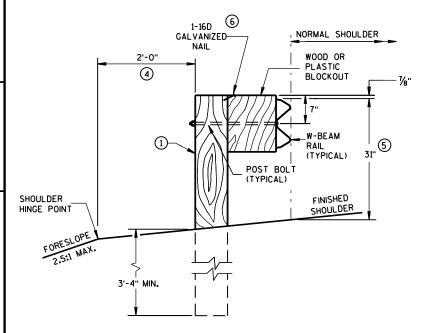
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DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

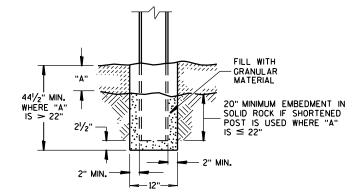
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 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.
- (4) 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

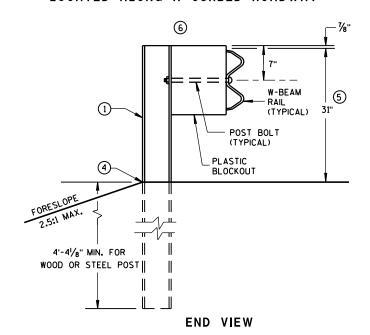
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



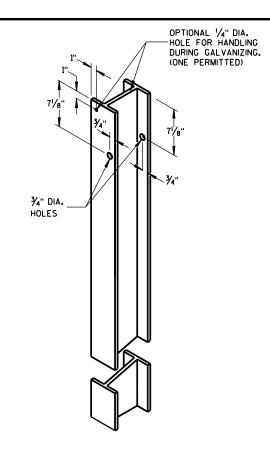
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



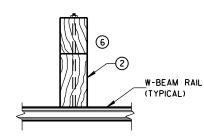
END VIEW
LOCATED ALONG A CURBED ROADWAY



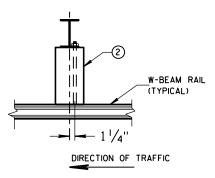
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



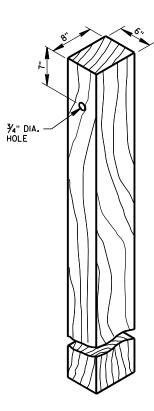
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL $^{\scriptsize \textcircled{1}}$



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

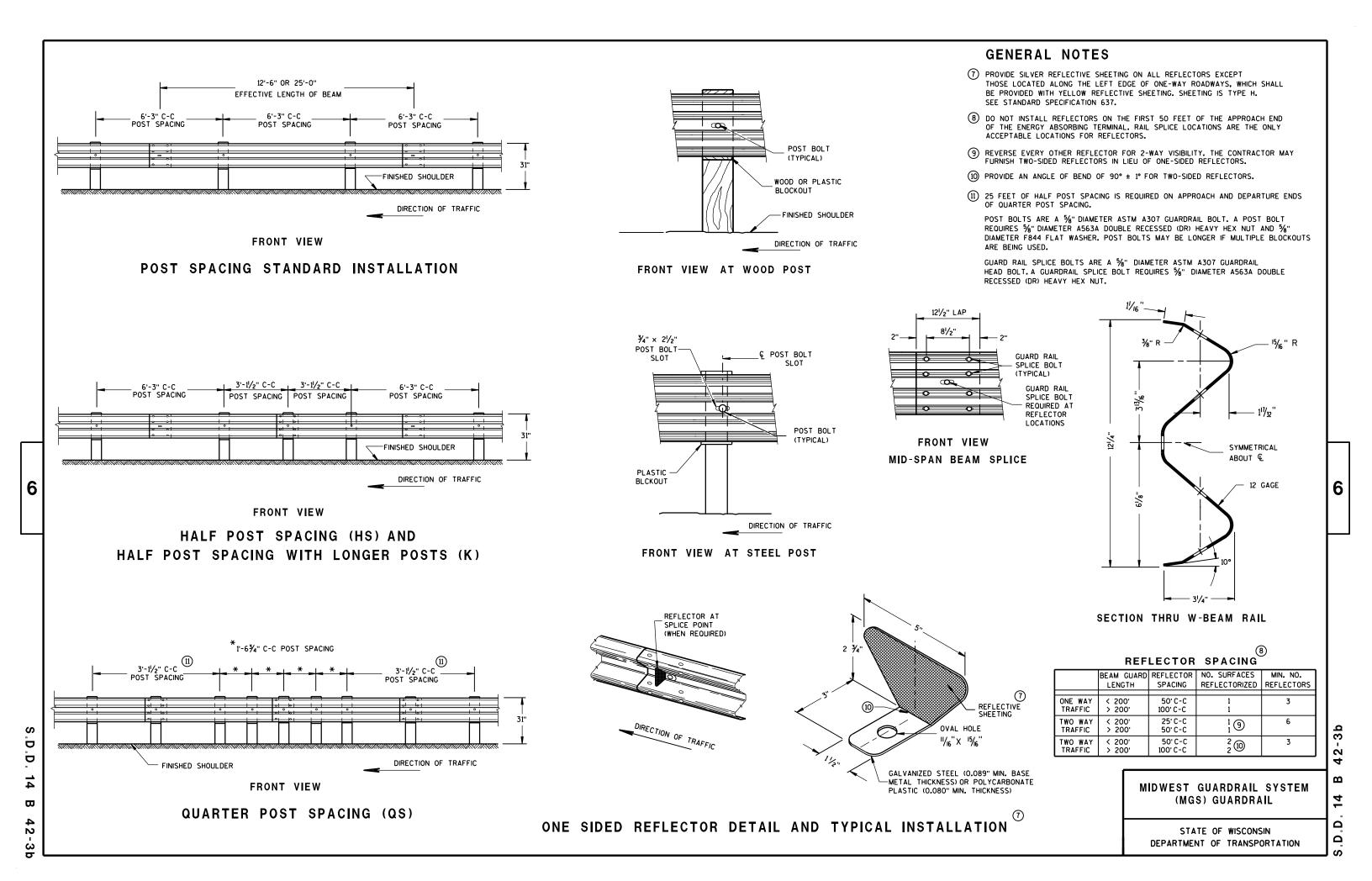
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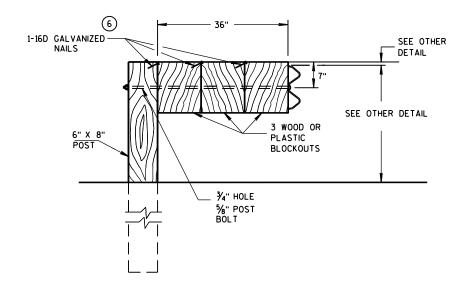
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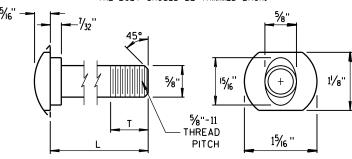


DETAIL FOR 36" BLOCKOUT DEPTH

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.

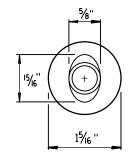
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

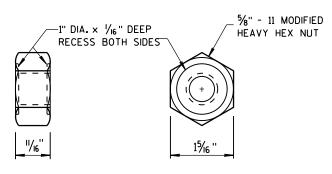


POST BOLT TABLE

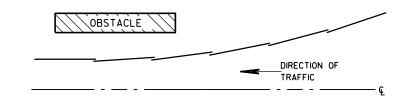
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

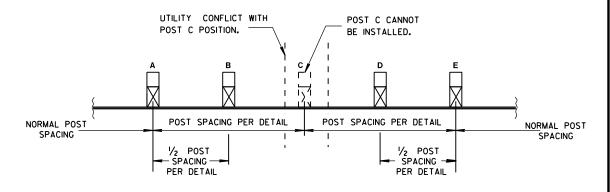


POST BOLT AND RECESS NUT



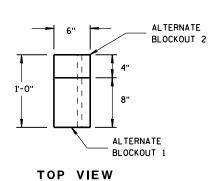
PLAN VIEW

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

June 2014 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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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

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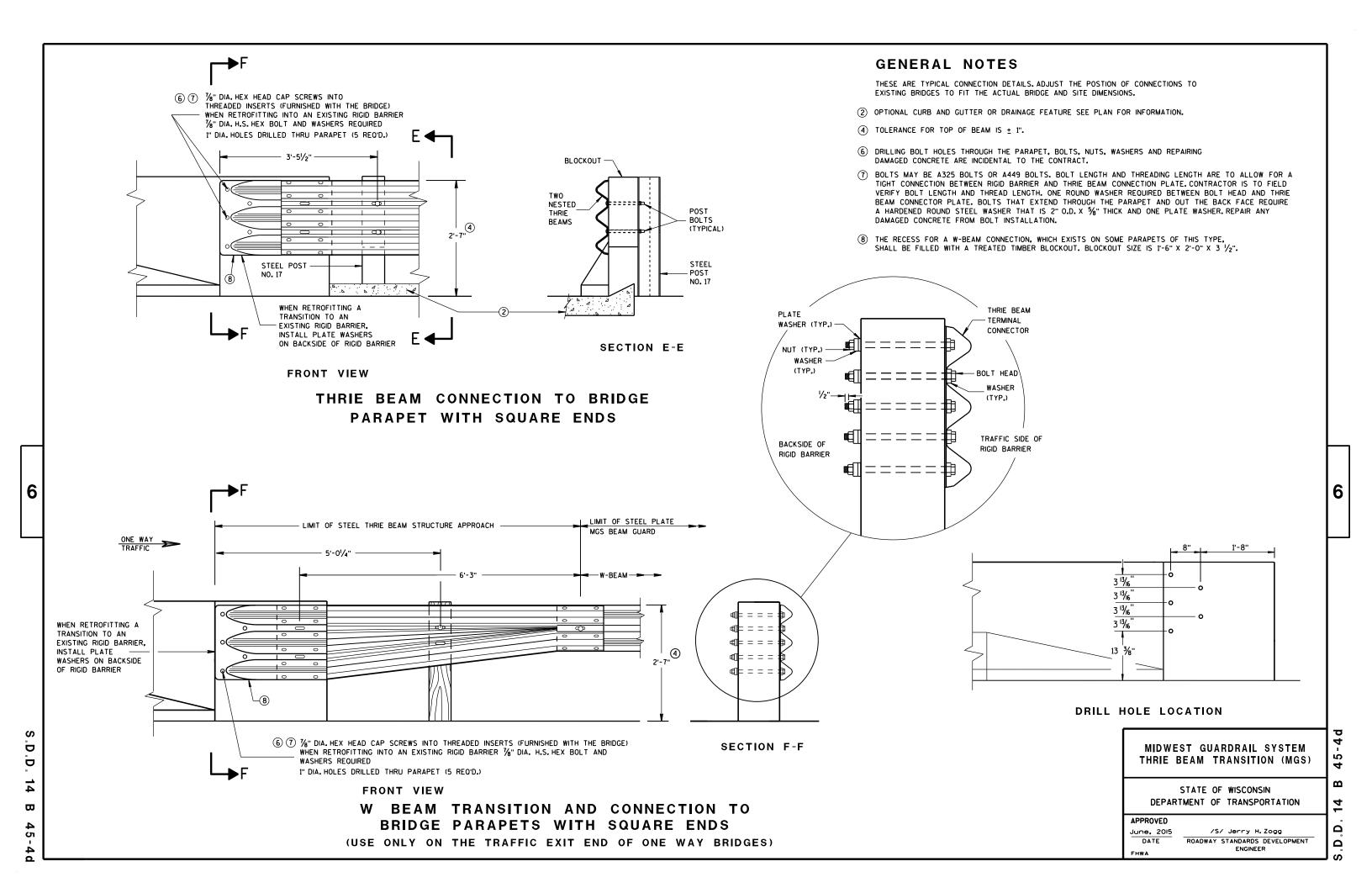
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THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".

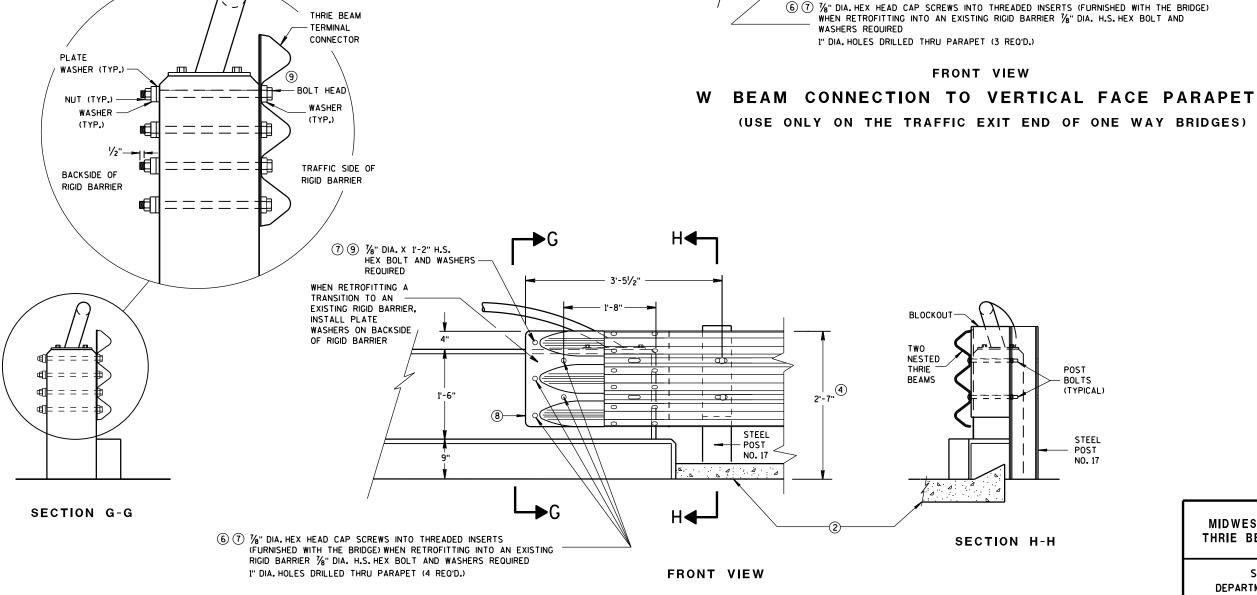
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- (6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTION PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5%" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

(7) 1/8" DIA. X 1'-2" H.S.

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIER, INSTALL

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -

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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
APPROVED
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE

FHWA

LIMIT OF STEEL PLATE

MGS BEAM GUARD

ONE WAY

TRAFFIC

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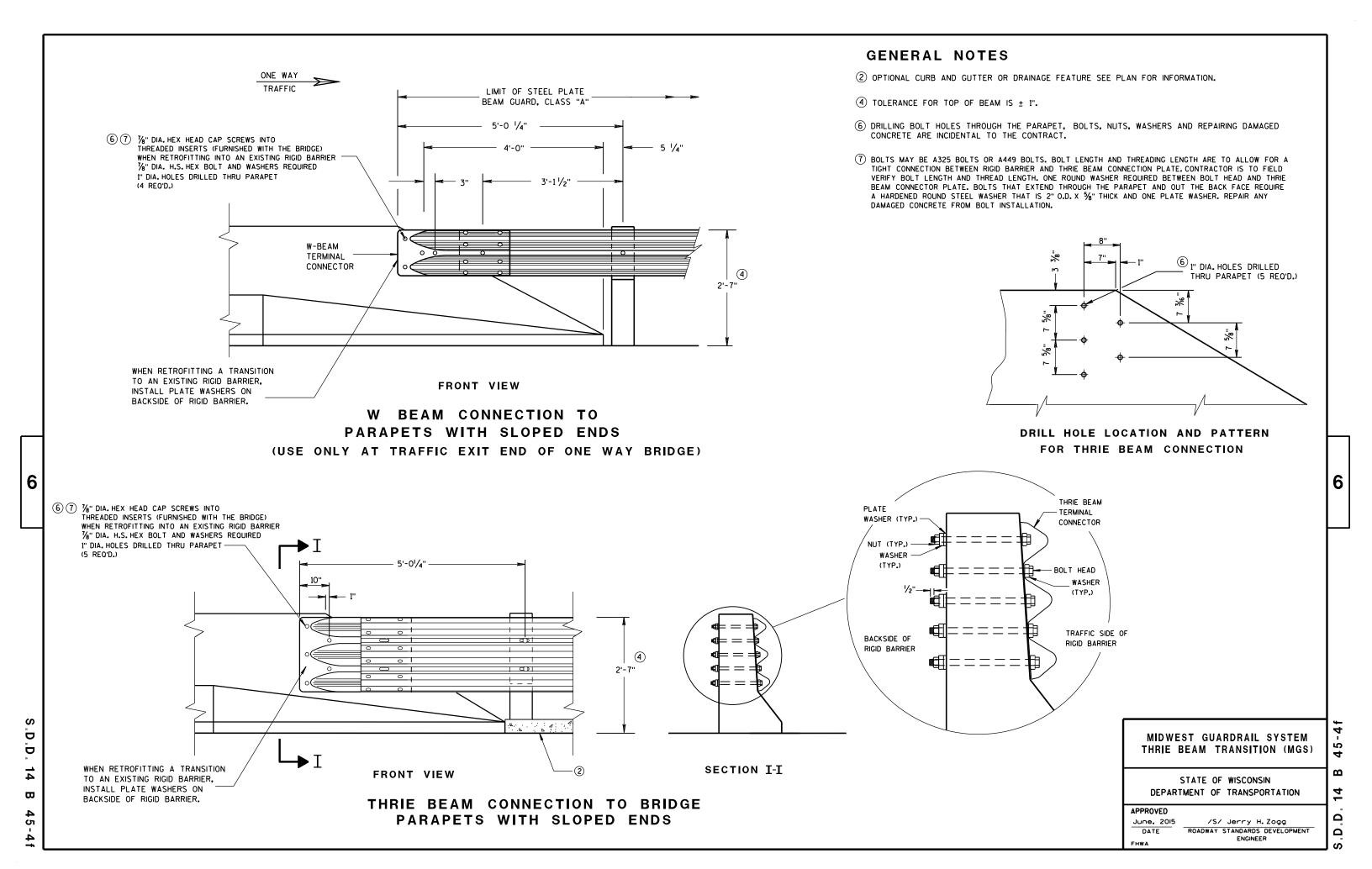
2'-7"

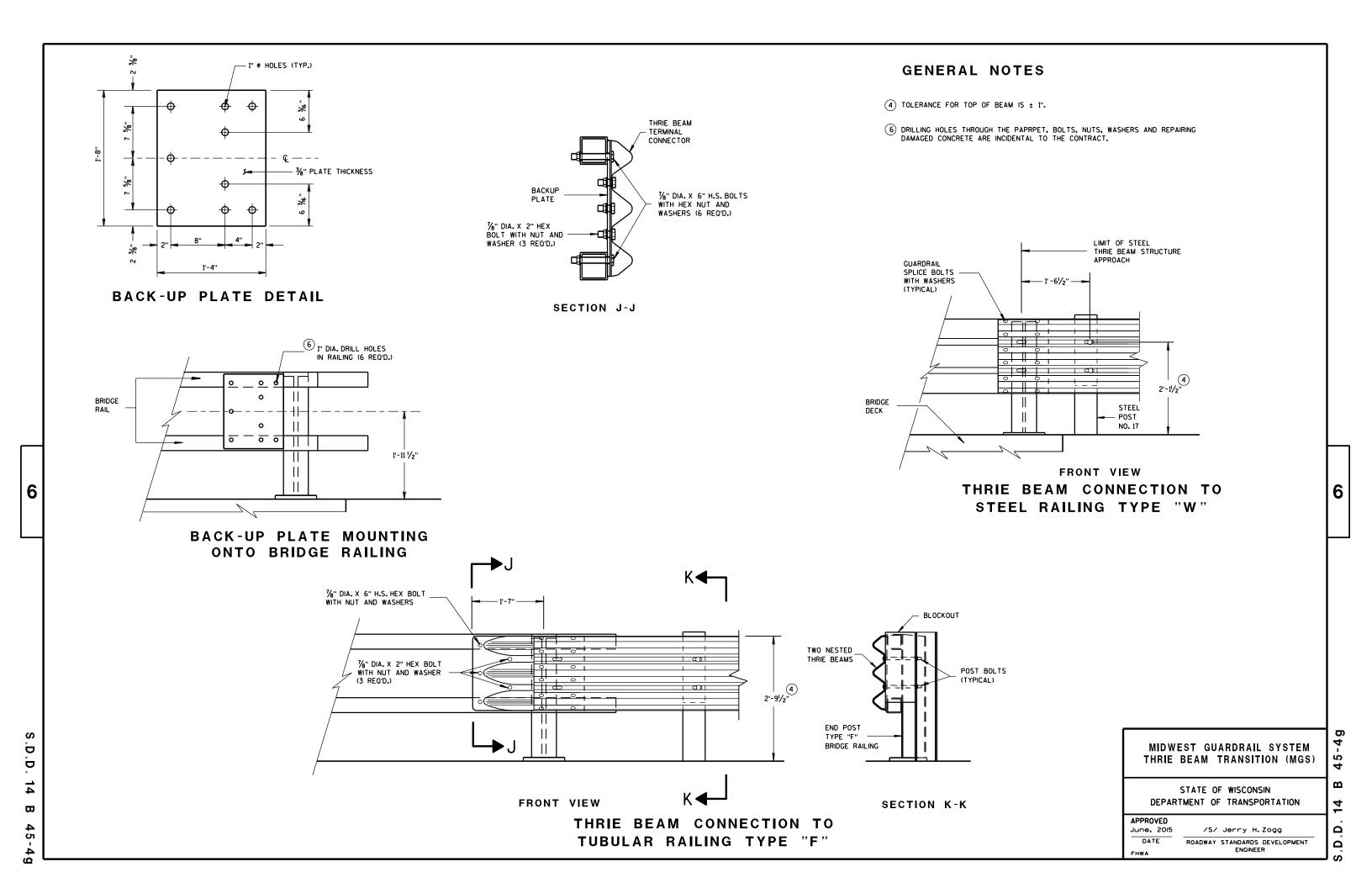
5'-0 1/4" —

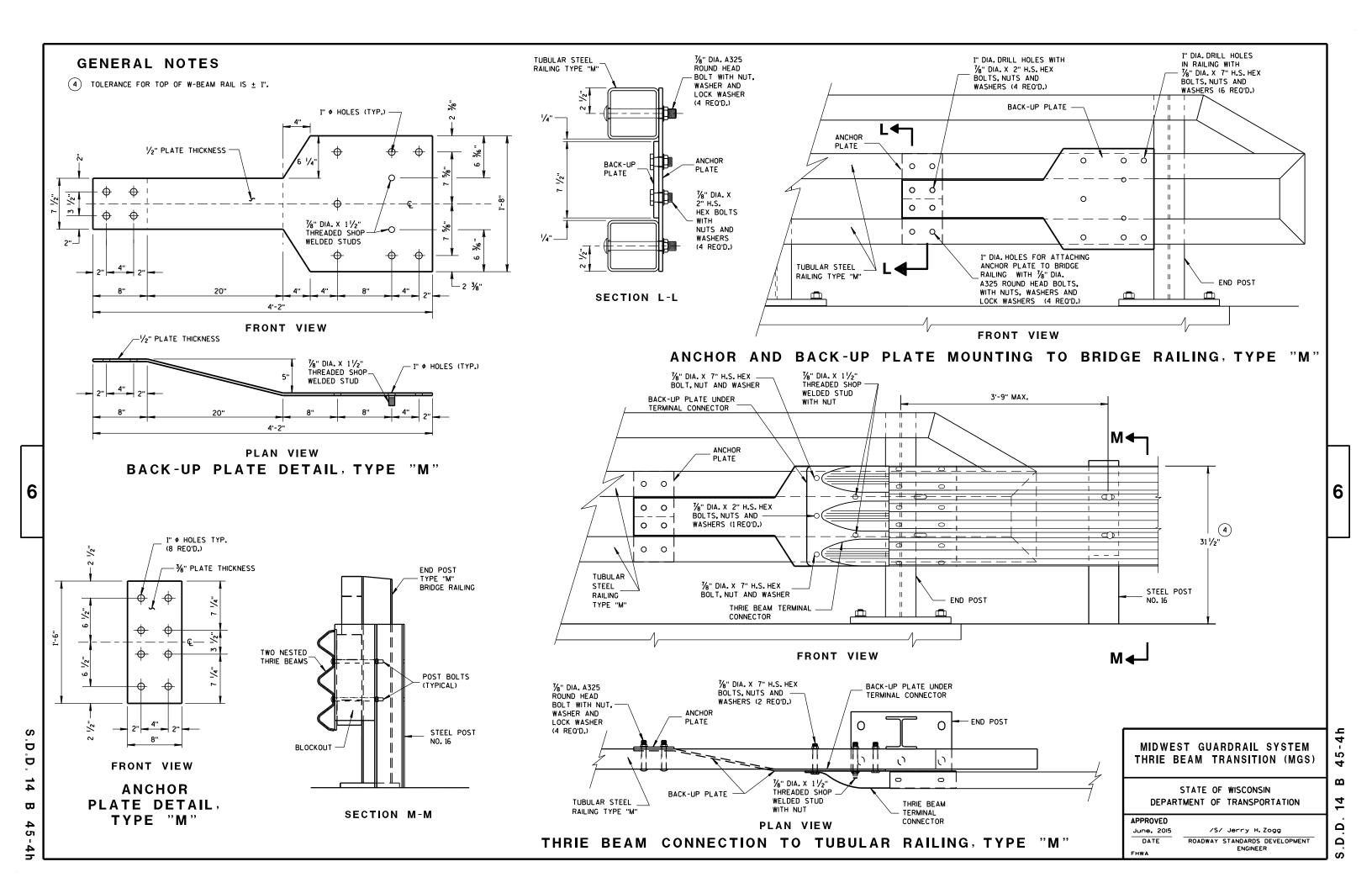
- 3'-1¹/₂"

ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D







	CONNE		R ASSEMBLY)	ON
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3√6 "
P2	1	B∱c	20" × 20" × 28%6"	¾6 "
Р3	1	B C D	39" × 35/8" × 20" × 191/6"	3/6 "
S1	4	B A	18 % 6" × 3 % " × 18 ¾ "	1/4"
S2	1	B D	10 ¹ / ₄ " × 2 ⁷ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"
S3	1	B₽₽	3" × 1½6" × 3½" × ½"	1/4"
S4	1	в₫	61/8" × 21/16"	1/4"
S5	1	вФ	61/8" × 11/16"	1/4"
S6	1	в₾	7¾" × 1¾"	1/4"
S7	1	A DC	2%6" × 6" × 35%" × 57%"	1/4"
S8	1	4 <u>0</u> 2	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C □ R	6½6" × 6¾6" × 1¾2"	1/4"
S10	1	A D C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"
S11	1	c ≜	8½" × 8¾" × 1¼6 "	1/4"

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

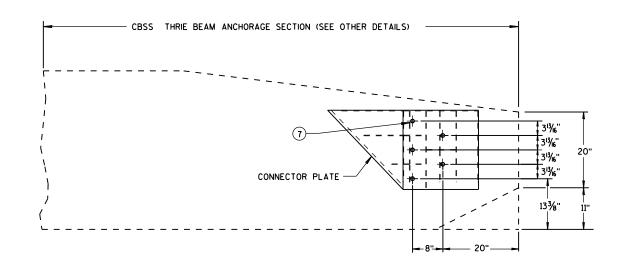
APPROVED	
2015	

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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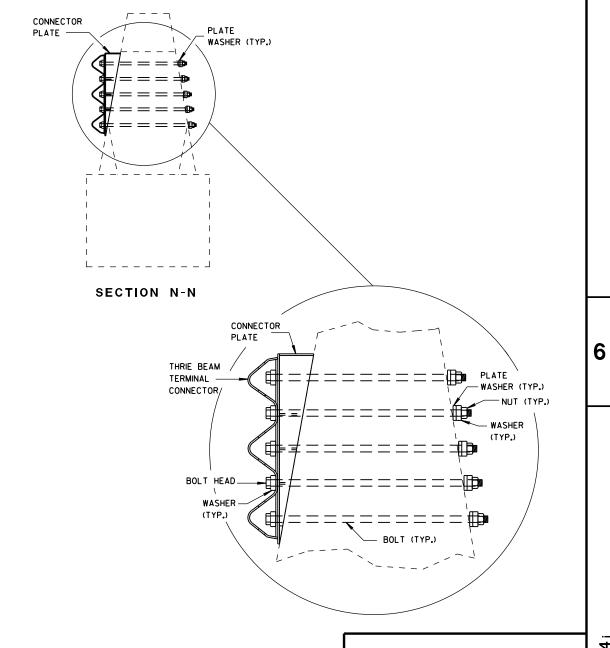


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X %" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

4

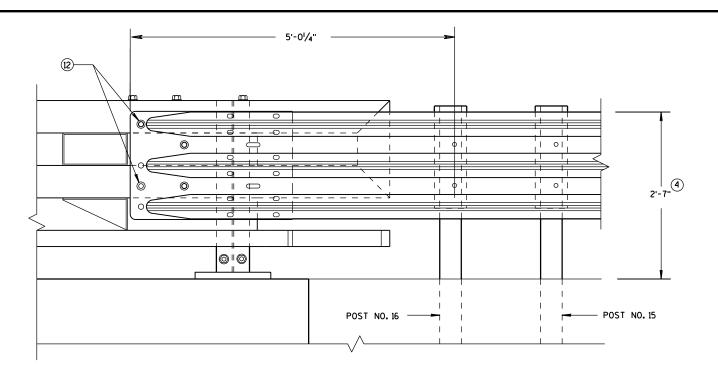
APPROVED
June, 2015 /S.

FHWA

OIS /S/ Jerry H. Zogg

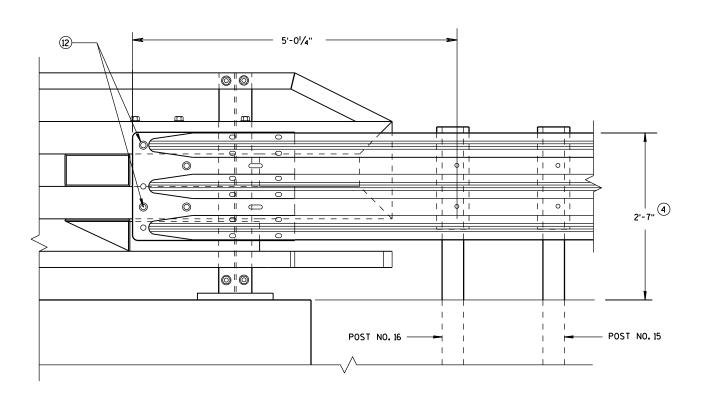
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14 B 4



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

- 4 TOLERANCE FOR TOP OF BEAM IS ± 1".
- (12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

2

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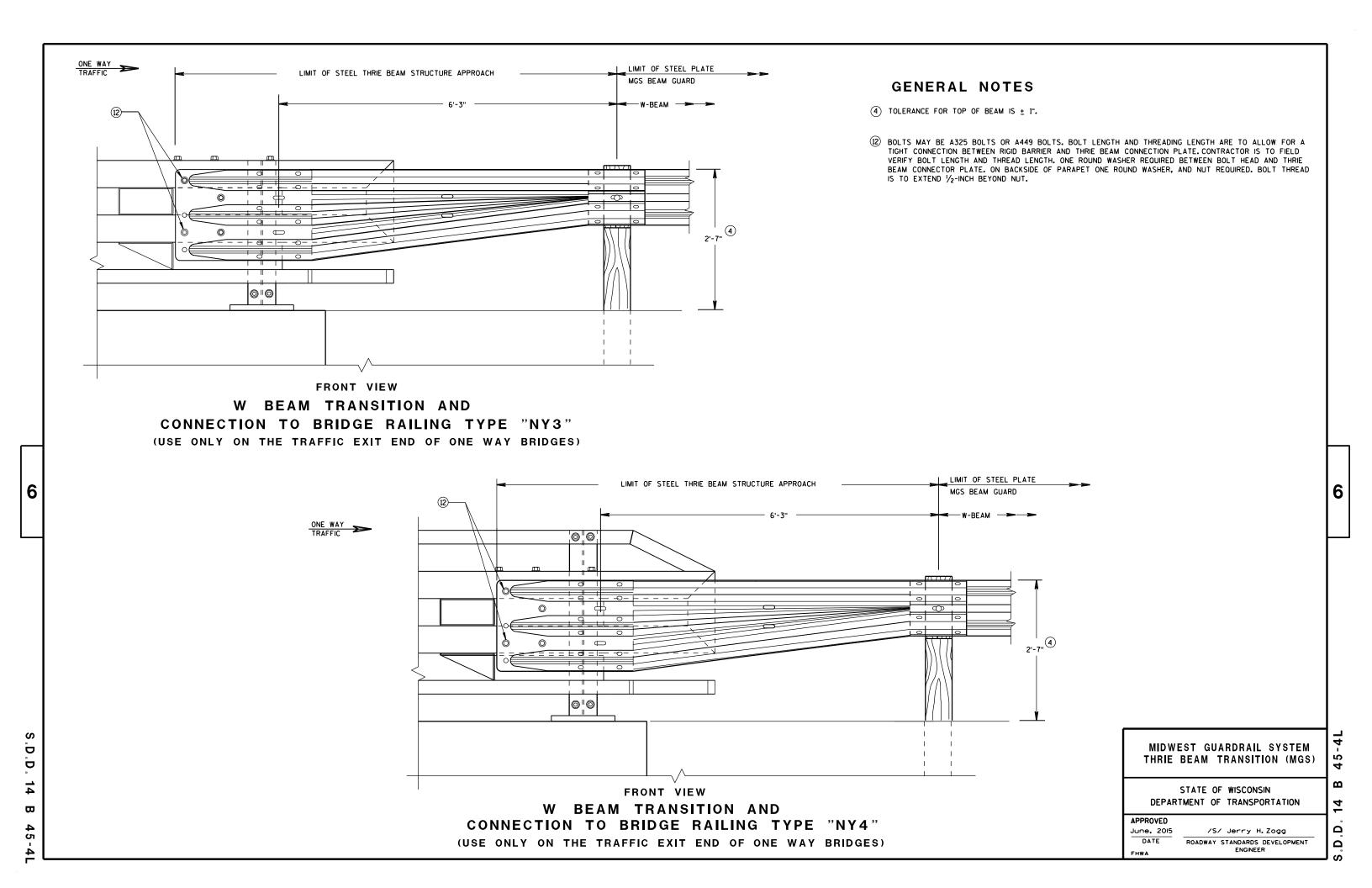
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg June, 2015 DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

6

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GENERAL NOTES

6

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15

C

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

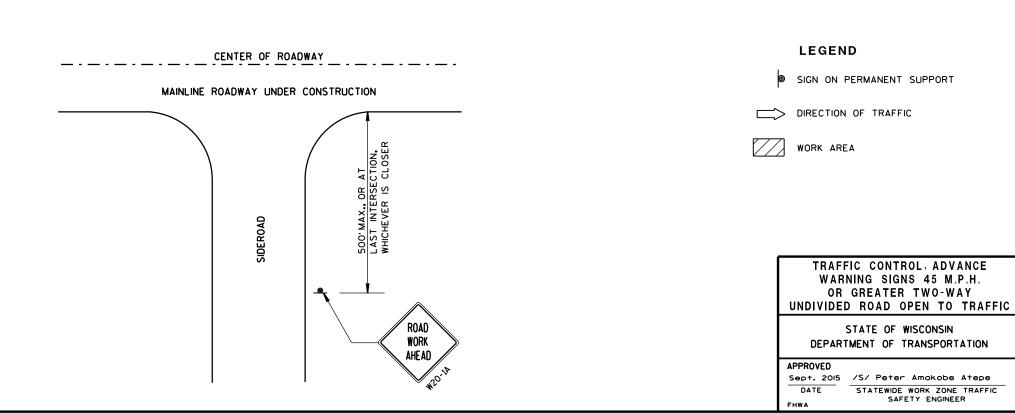
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

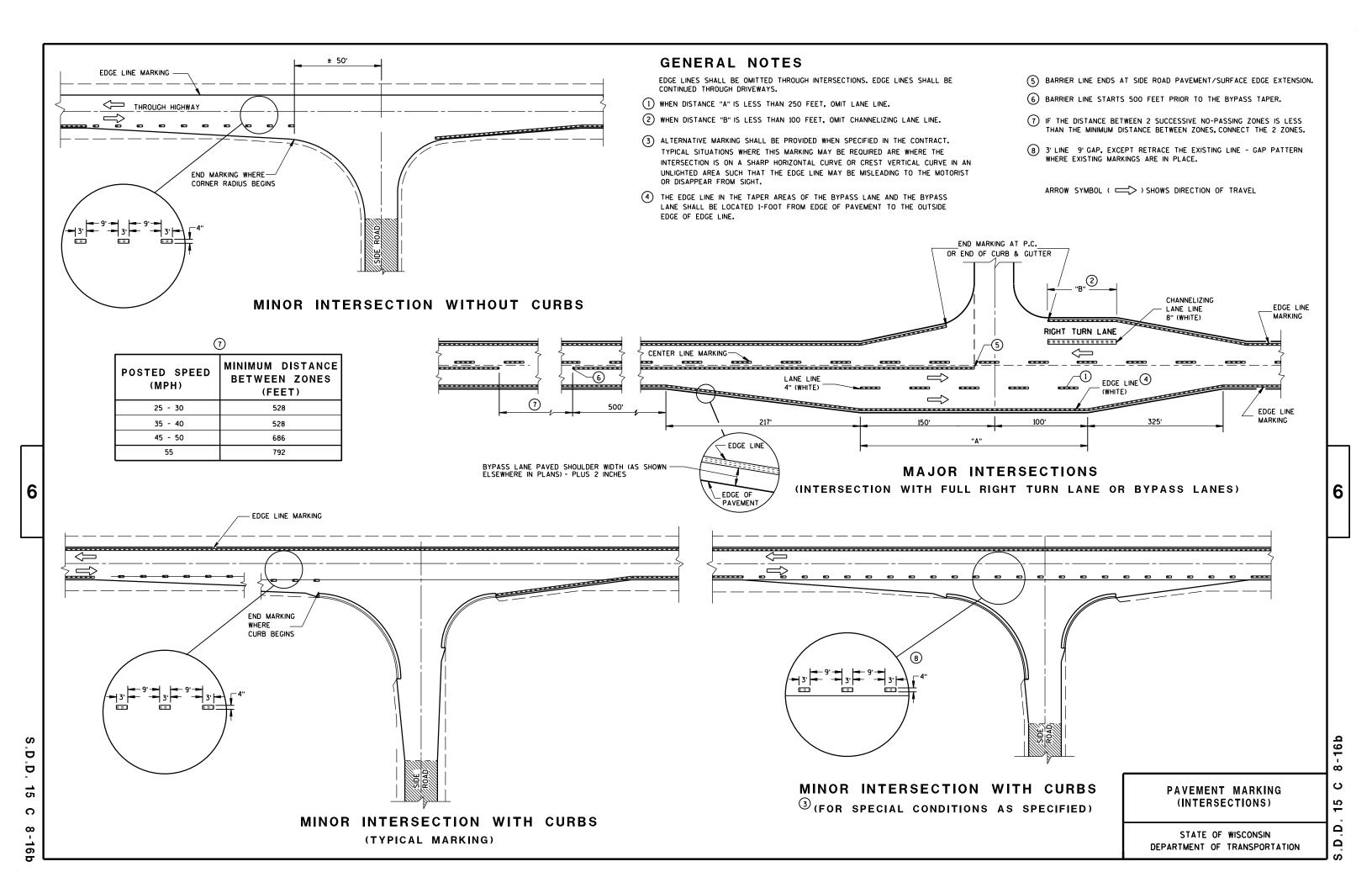
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



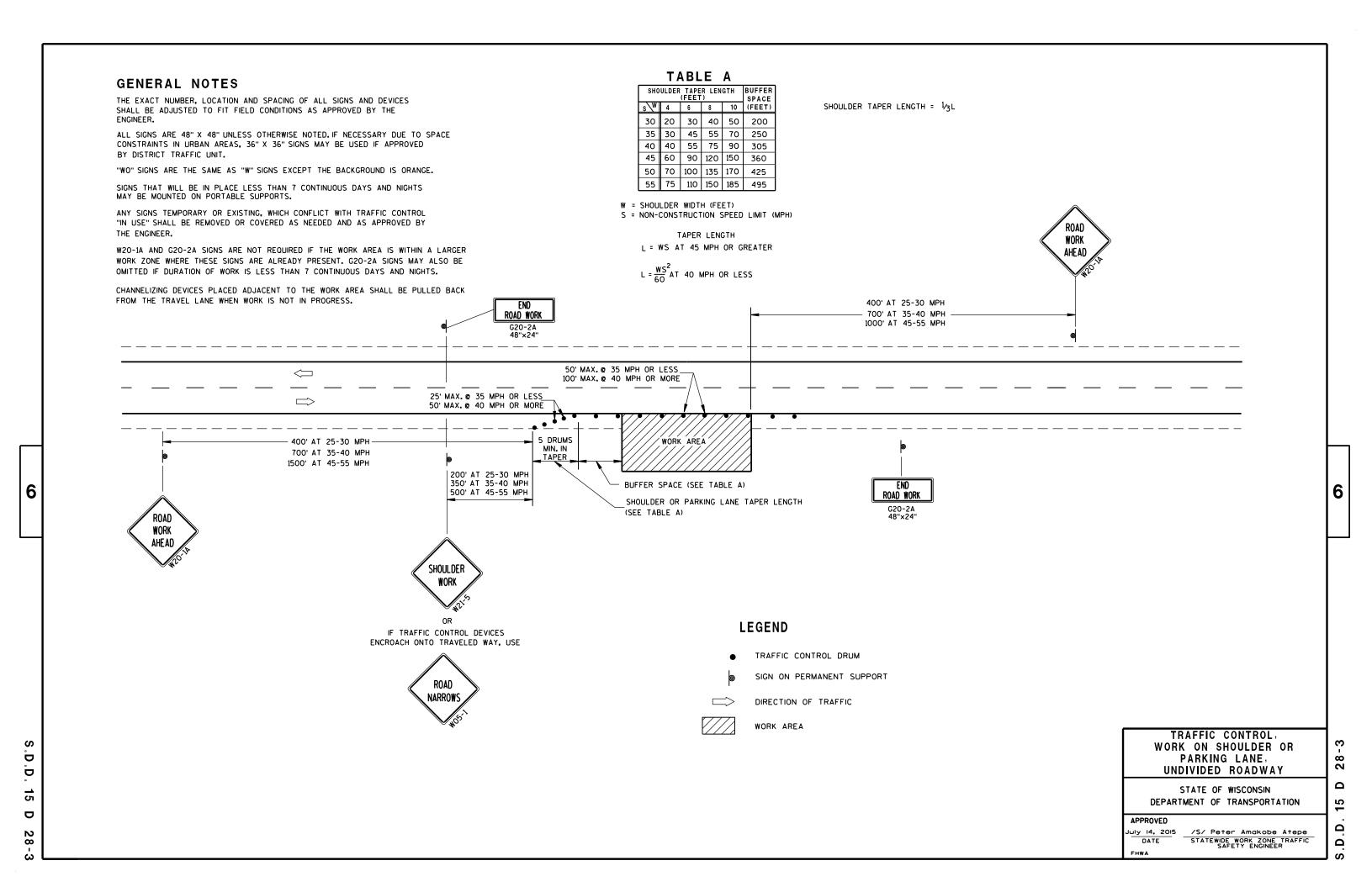
4

SAFETY ENGINEER



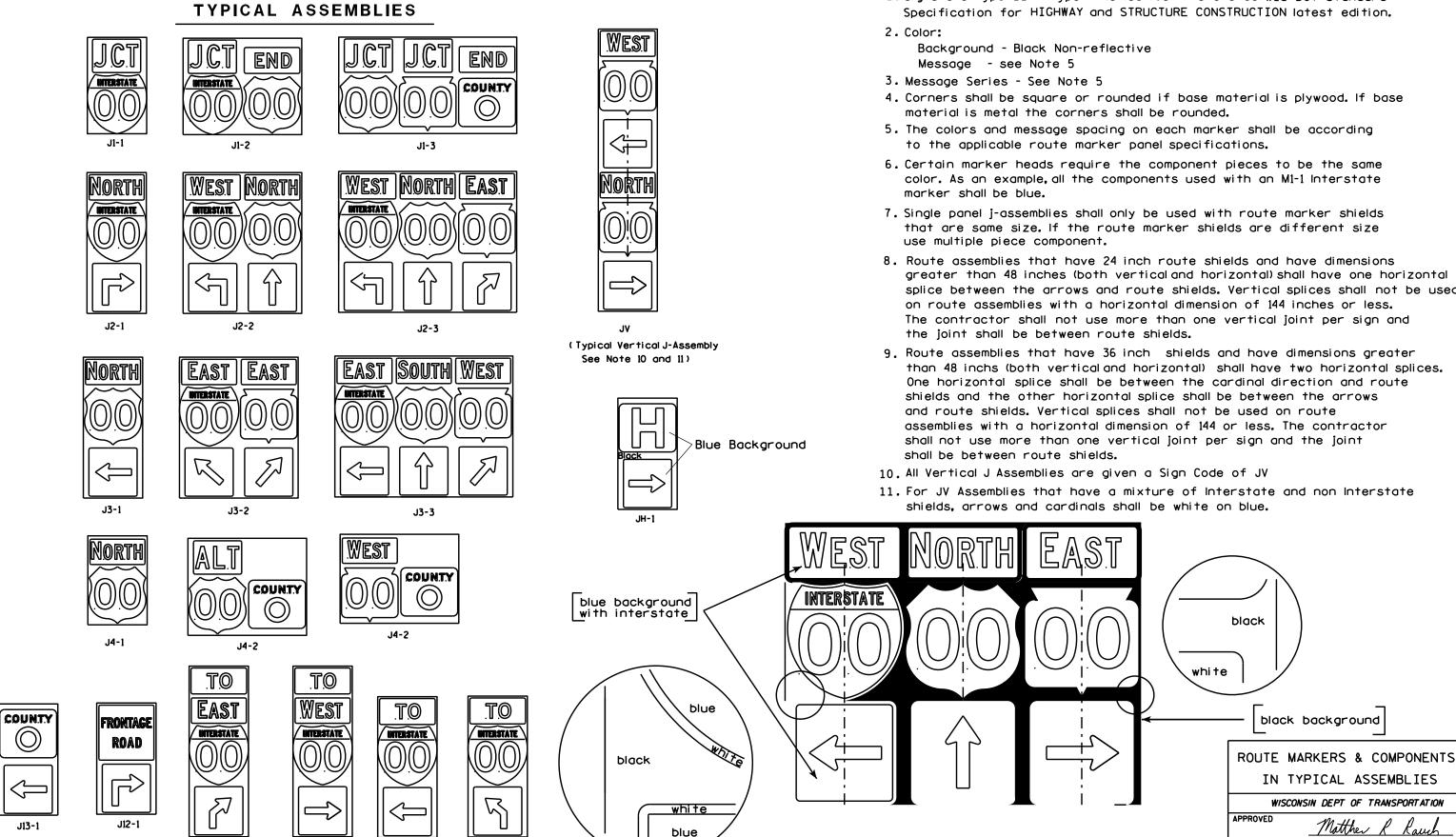






1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

** 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.

PLOT BY : mscj9h

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).

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

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>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), 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" (±).
- * 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.
- ** 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.
- *** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ********\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

2'Min - 4'Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED		
	L	E	
* * *	Greater than 48" Less than 60"	12"	
	60" to 120"	L/5	l

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

of Gravel

Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

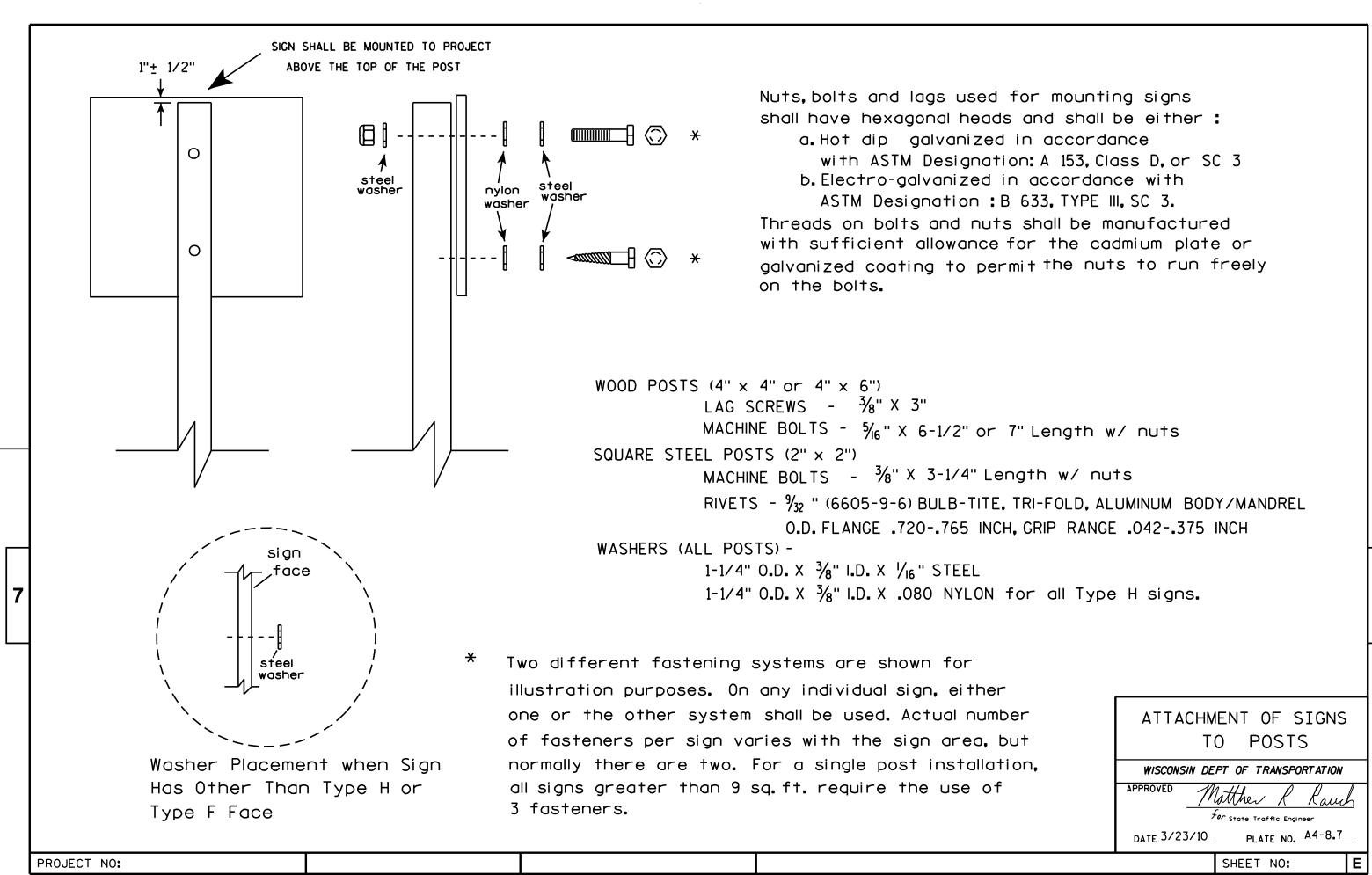
PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15





PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

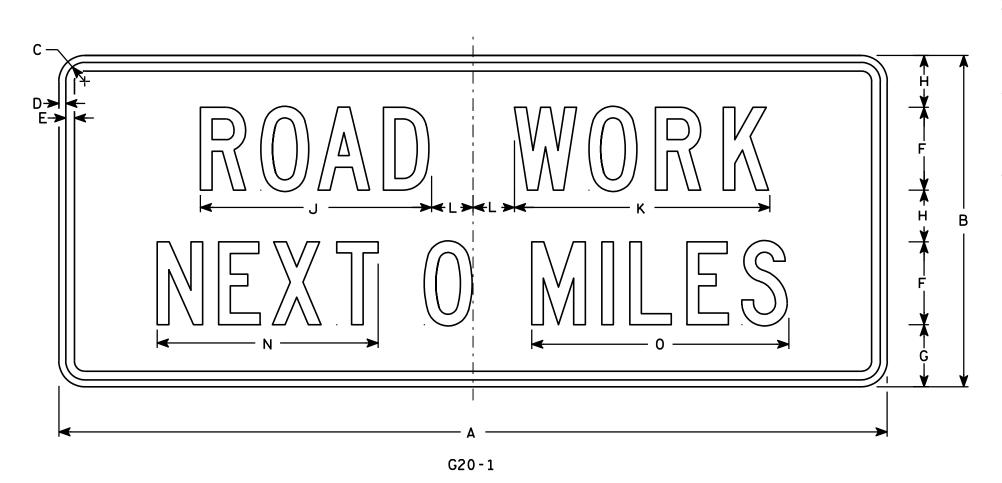
For State Traffic Engineer



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

Background - Orange Message - Black

- 3. Message Series C
- 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 adjust spacing to achieve proper balance



Metric equivalent for this sign is:

PROJECT NO:

SIZE 2 1500 mm x 600 mm 3 4 1500 mm x 600 mm 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Φ	0	R	S	Т	U	٧	₩	X	Y	Z	Area sq. ft.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 ¾	18 1/2	3		16	18 5/8												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 ¾	18 1/2	3		16	18 5/8												10	.90
5																												

COUNTY:

STANDARD SIGN G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chests J Spane for State Traffic Enginee PLATE NO. G20-1.7 DATE 4/8/97

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\G201.DGN

HWY:

PLOT DATE: 12-0CT-2005 17:02

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE: 6.954307:1.000000

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

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 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.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

HWY:

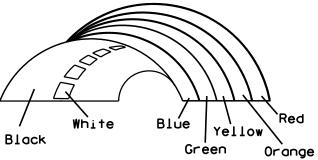
Background Colors of Symbol*

Z F Z

A F X A

₽ 4

* VARIES



*1/4" Black Border between each color of rainbow and border of rainbow

COUNTY:

NOTES

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

Background - White Message - (See Note 5)

- 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. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

STANDARD SIGN I55-56

For State Traffic Engineer

DATE 4/27/11 PLATE NO. 15!

ATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556.DGN

PROJECT NO:

PLOT DATE: 27-APR-2011 10:05

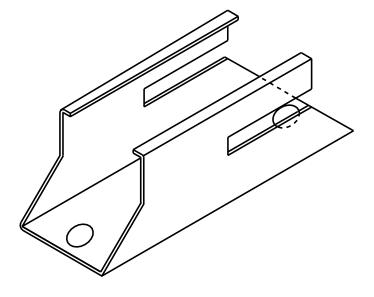
PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 7.945391:1.000000

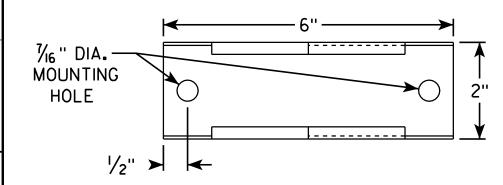
945391:1.000000 WISDOT/CADDS SHEET 42

ISOMETRIC VIEW

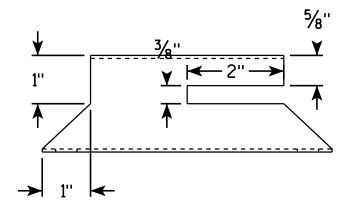


TOP VIEW

HWY:



SIDE VIEW

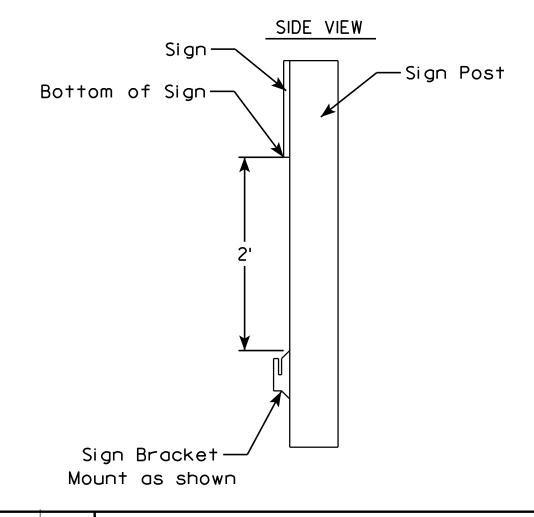


← 2" →

END VIEW

NOTES

- 1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
- 2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
- 3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
- 4. Shall have rounded edges with at least $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION APPROVED

for State Traffic Engineer DATE 2/5/10 PLATE NO. 155-56B.1

SHEET NO:

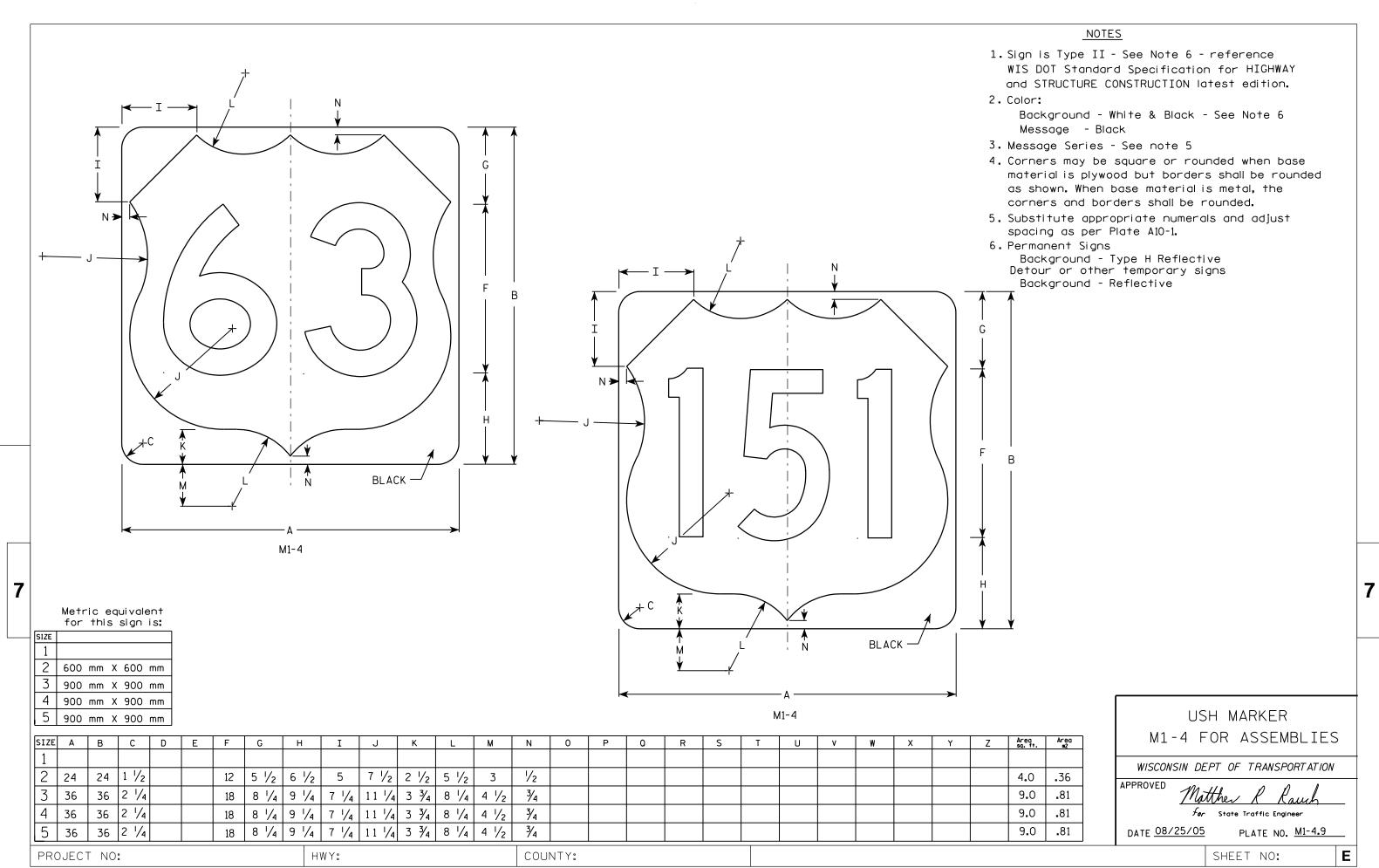
COUNTY:

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 1.986348:1.000000

PROJECT NO:



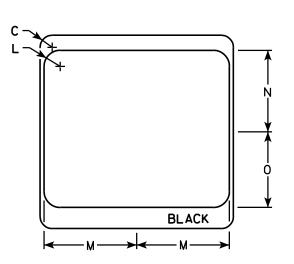
FILE NAME : C:\Users\Projects\tr_stdplate\M14.DGN

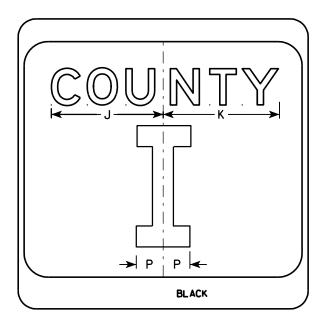
- 1. Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

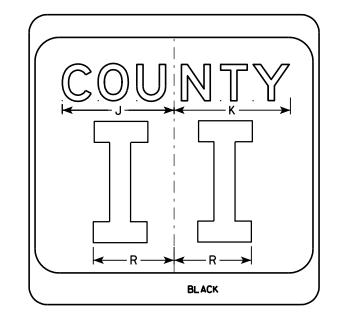
Background - White & Black - See Note 7 Message - Black

- 3. Message Series see Note 5
- 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. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 %	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
																			_								

COUNTY:

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

FerState Traffic Engineer PLATE NO. M1-5A.8 DATE 9/27/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M15A.DGN

PROJECT NO:

BLACK

HWY:

M1-5A

PLOT DATE: 29-SEP-2011 11:25

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.959043:1.000000

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 Message - Black

- 3. Message Series See note 5
- 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 Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs Background - Type H Reflective Detour or temporary Signs Background - Reflective

	BLACK BLACK
Metric equivalent for this sign is:	>

HWY:

SIZE 600 mm X 600 mm 900 mm X 900 mm 900 mm X 900 mm 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												ļ
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 ½	1	1 1/8	11 1/4	21 1/8											4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	. 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M16.DGN

PLOT DATE: 13-OCT-2005 14:55

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE : 6.715871:1.000000

- 1. Sign is Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 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. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

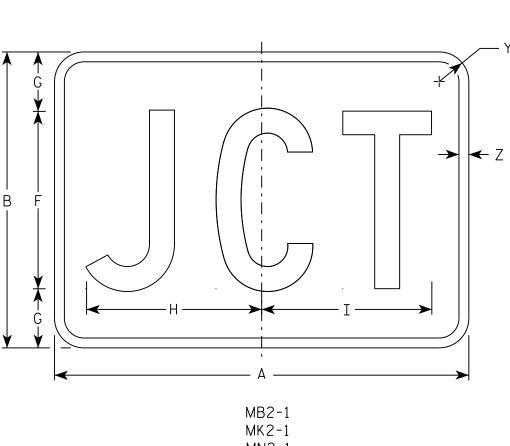
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch f_{or} State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

PLOT SCALE • 4 864603•1 000000







MP3-1









HWY:



NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 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. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000







MR6-1

HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 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. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	: Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3%		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5%		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

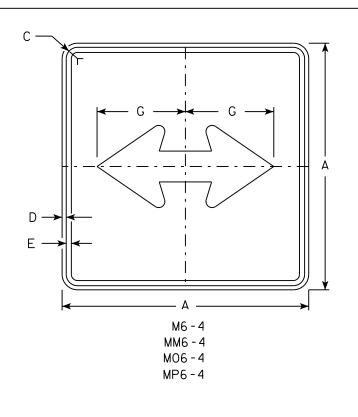
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

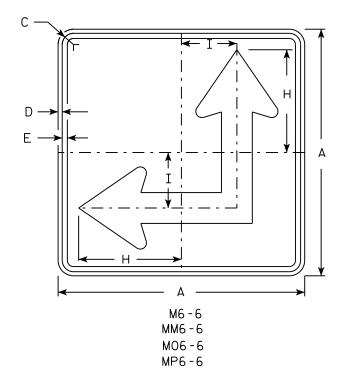
PROJECT NO:

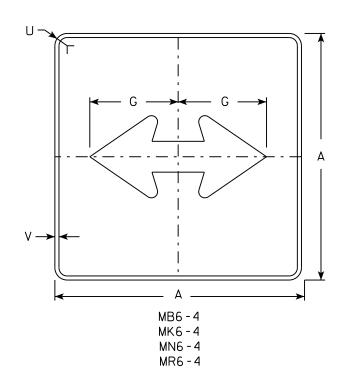
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

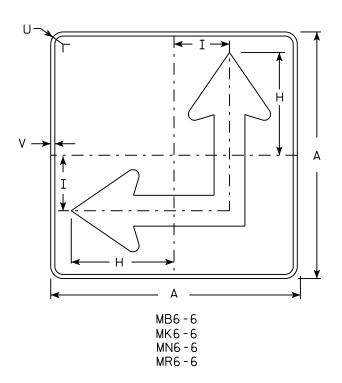
PLOT SCALE . 11 675051.1 000000







HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See Note 4 Message - See Note 4

- 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. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

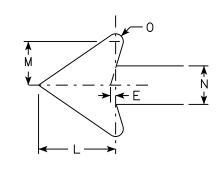
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
																											==

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

PROJECT NO:

NOTES 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - Red Message - White 3. Message Series - C R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. _____R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

FILE NAME · C·\CAFfiles\Projects\tr stdplote\R11 DGN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ plotuser \$\$ PINT NAMF :



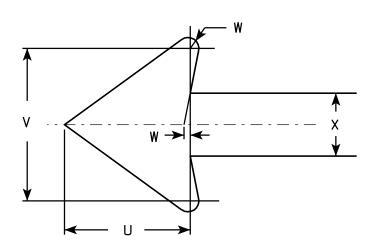
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Red

- 3. Message Series See Note 5
- 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. Lines 1, 3 and 4 are series C, line 2 is series B.
- 6. R7-1D (double arrow)

R7-1L (left arrow)

R7-1R (right arrow)



R7-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 %	2	%	5/8	1 1/2	2 1/2	2	2	4 %	4 1/8	2 1/4	2 1/8	2 1/2	3 %	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 %	7 1/8	7	2 3/4	2 %	3 1/8	5 %	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																			·								

COUNTY:

STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ROVED

Matthew Rauch

For State Traffic Engineer

DATE 3/31/2011

1 PLATE NO. R7-1.9
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN

HWY:

PROJECT NO:

PLOT DATE: 31-MAR-2011 09:20

PLOT BY: mscsja

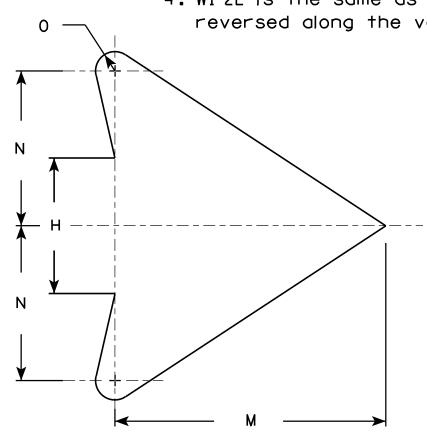
PLOT NAME :

PLOT SCALE: 3.476110:1.000000

- 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. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



								W	1-2R													<u> </u>	11011	DLIA	_		
SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	v	W	×	Y	Z	Areo sq. ft.
1	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
25	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
2M	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
3	36		1 %	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
4	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
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0
					·					·		<u> </u>		l	·	l	l			1	l	l					

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch For State Traffic Engineer

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

PLATE NO. W1-2.10

SHEET NO:

PROJECT NO:

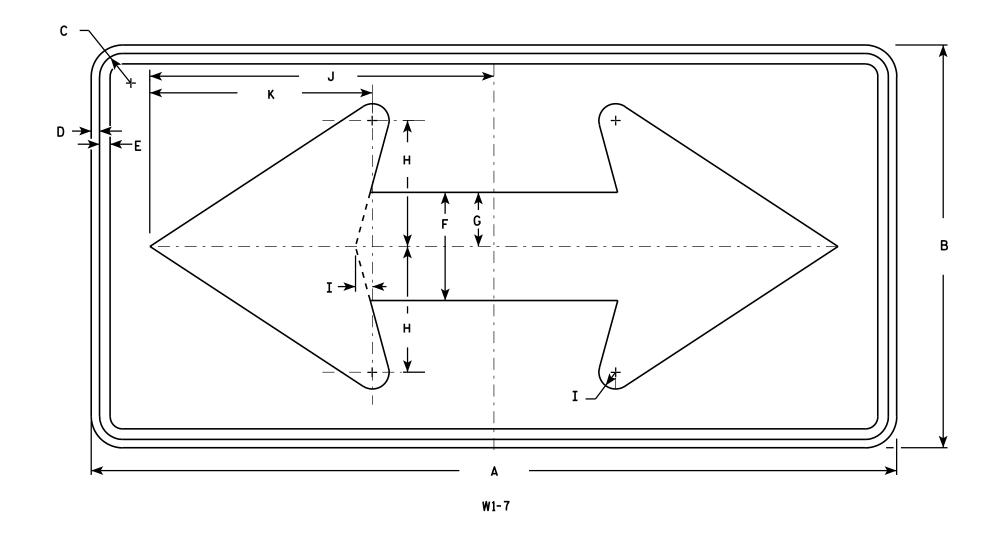
← H →

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.



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1	36	18	1 1/8	3⁄8	1/2	5	2 1/2	5 ¾	3/4	15 5/	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/	2 13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/	2 13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	ß 16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W17.DGN

PROJECT NO:

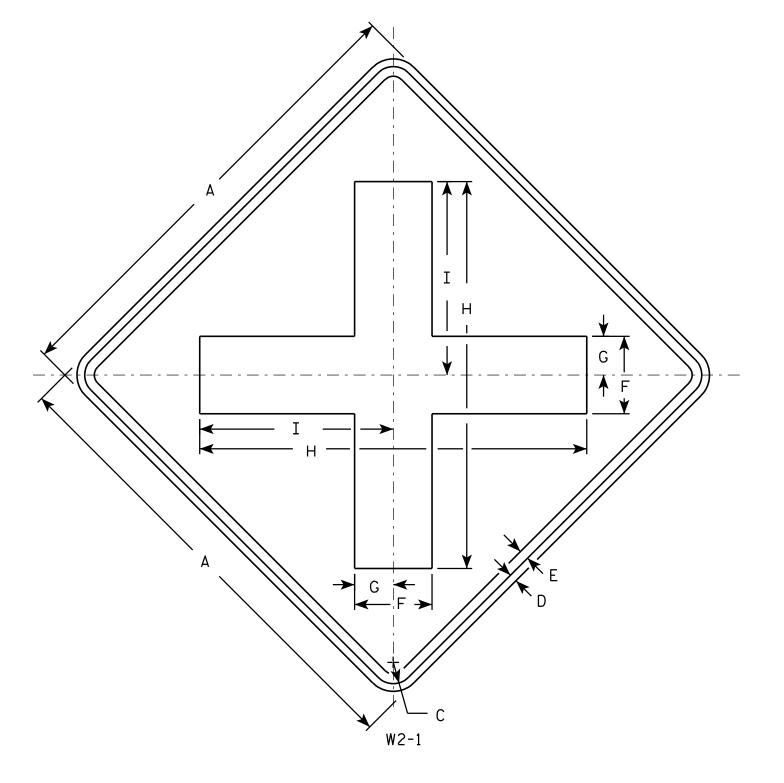
HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.720679:1.000000



- 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.

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	Areo sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
25	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

COUNTY:

STANDARD SIGN W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch
For State Traffic Engineer

DATE 5/29/12

PLATE NO. W2-1.9

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W21.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:10

PLOT NAM

PLOT BY: mscsja

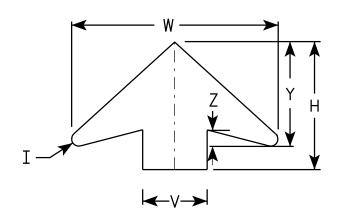
PLOT SCALE: 6.202372:1.000000

- 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. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	×	Y	Z	Area sq. ft
1																											
25	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	1 /8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7 /8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

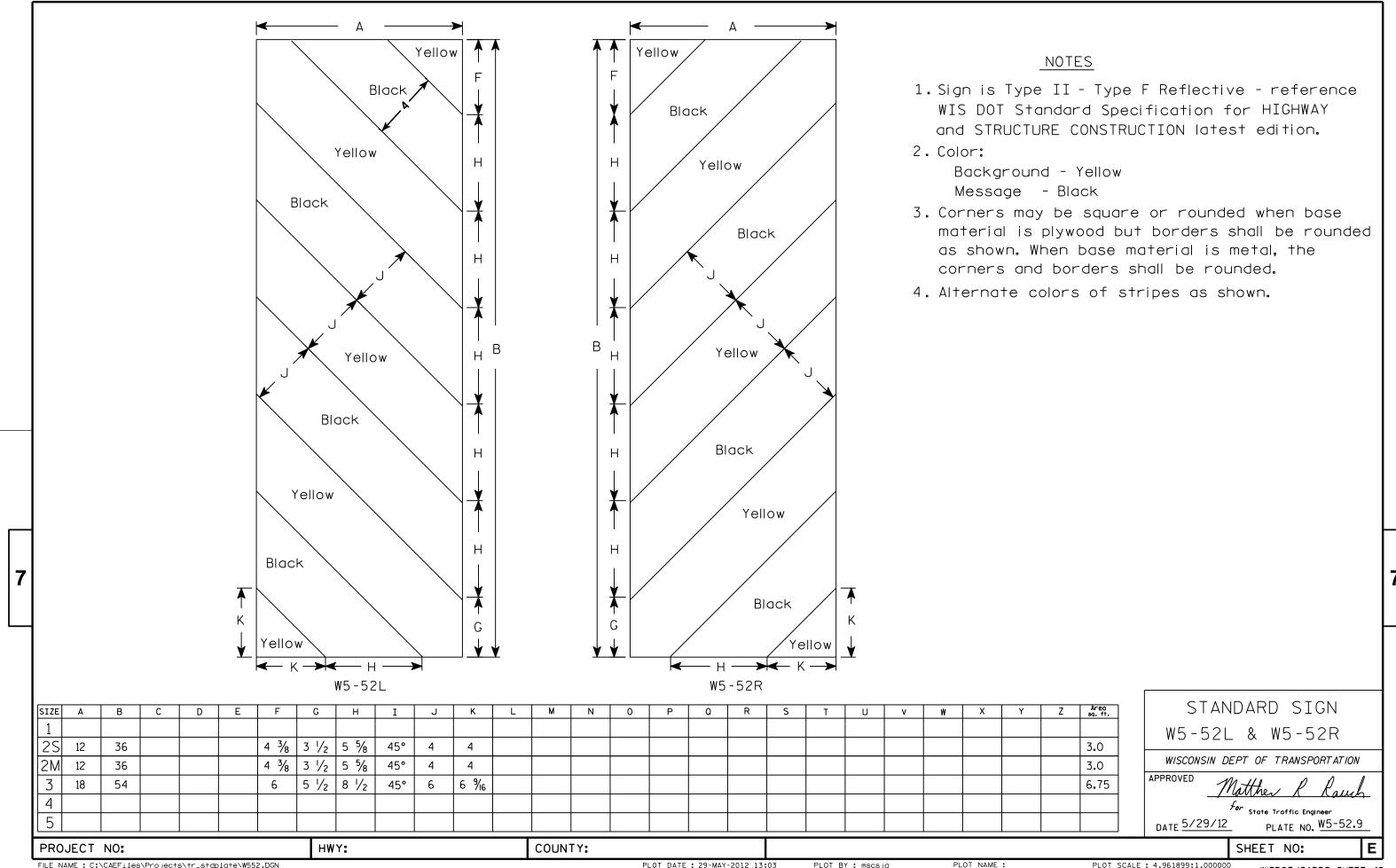
APPROVED

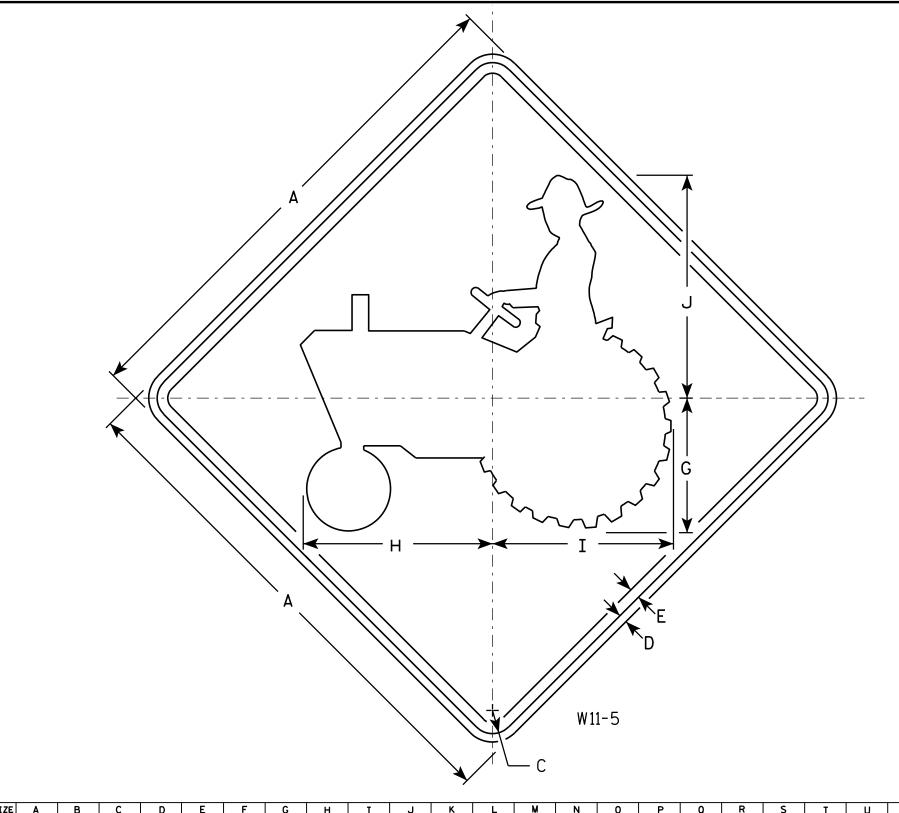
Matther R Rauch.

DATE 5/29/12 PLATE NO. W3-5.5

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.

SIZE A 3/8 1/2 1 1/8 6 3/8 9 8 5/8 10 5/8 24 4.0 1 3/8 1/2 5/8 11 1/4 10 3/4 13 1/4 30 6.25 11 1/4 10 3/4 13 1/4 2M 30 1/2 1 3/8 6.25 3 1 1/8 9 13 1/2 12 1/8 16 5/8 ₹4 36 9.0 5 12 3/4 18 17 1/4 21 1/8 2 1/4 3/4 48

COUNTY:

STANDARD SIGN W11-5

WISCONSIN DEPT OF TRANSPORTATION

State Traffic Engineer

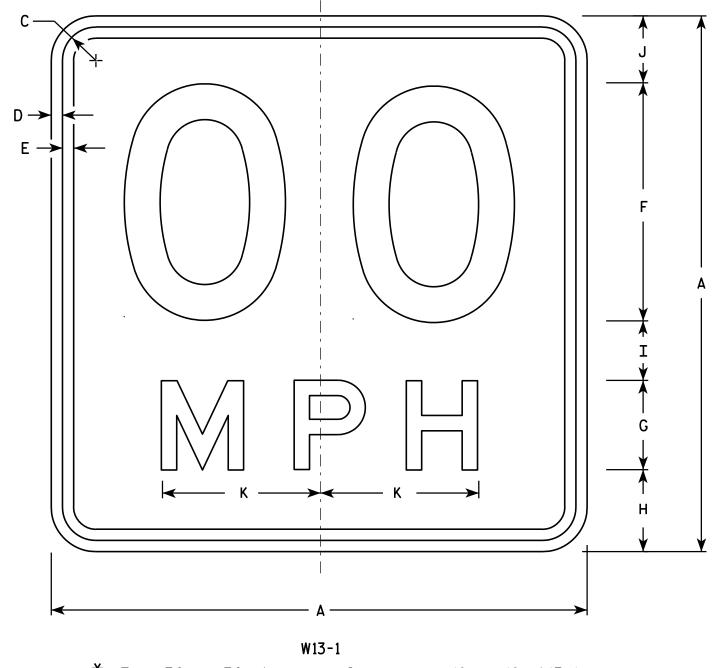
DATE 3/13/13 PLATE NO. W11-5.6

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. 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

* 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.

SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3∕8	3/8	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 5/8																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

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Ram

 f_{or} State Traffic Engineer S1/12 PLATE NO. W13-1.16

DATE <u>5/31/12</u>

SHEET NO:

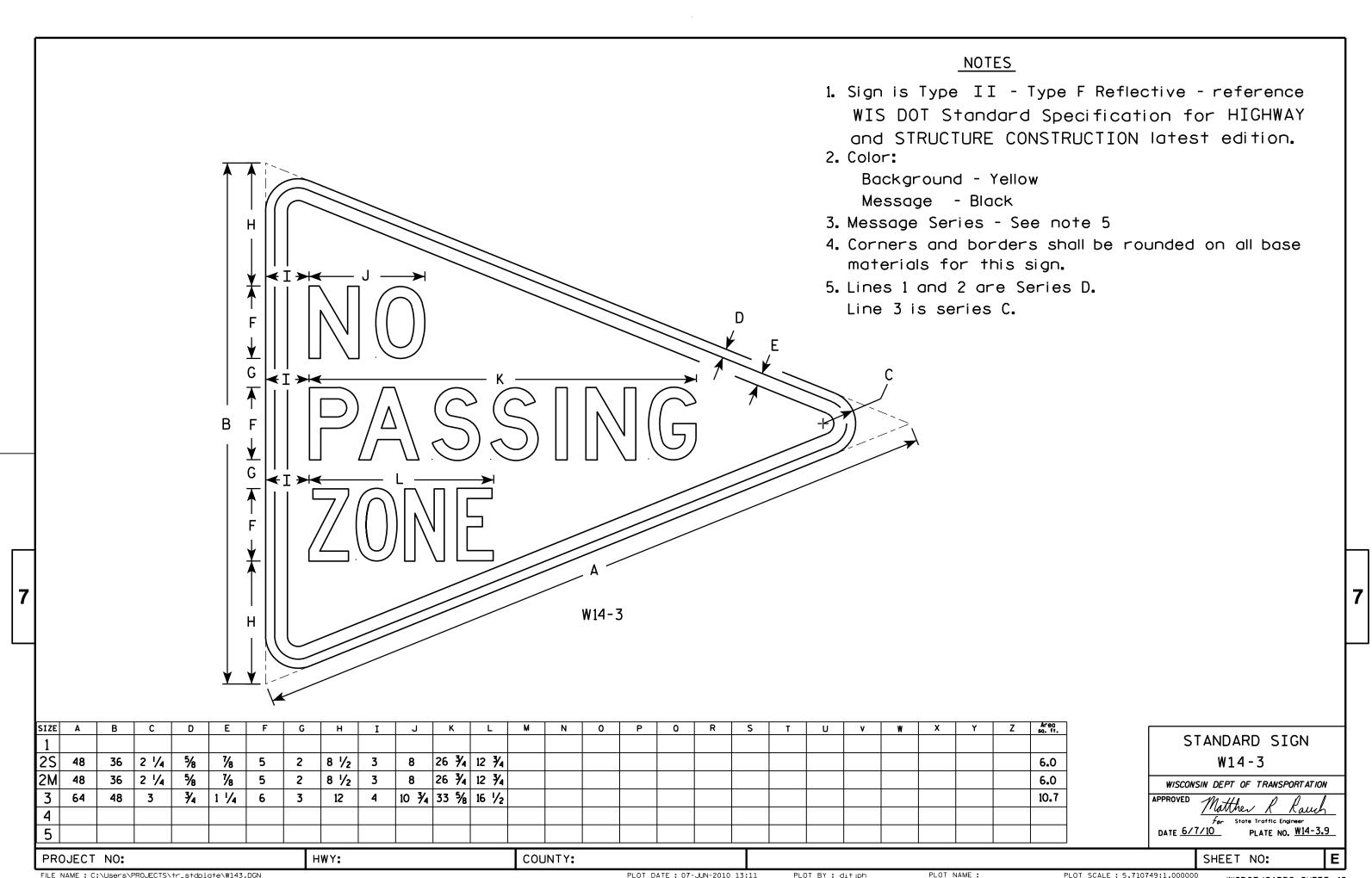
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PLOT DATE: 31-MAY-2012 10:57

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.225232:1.000000

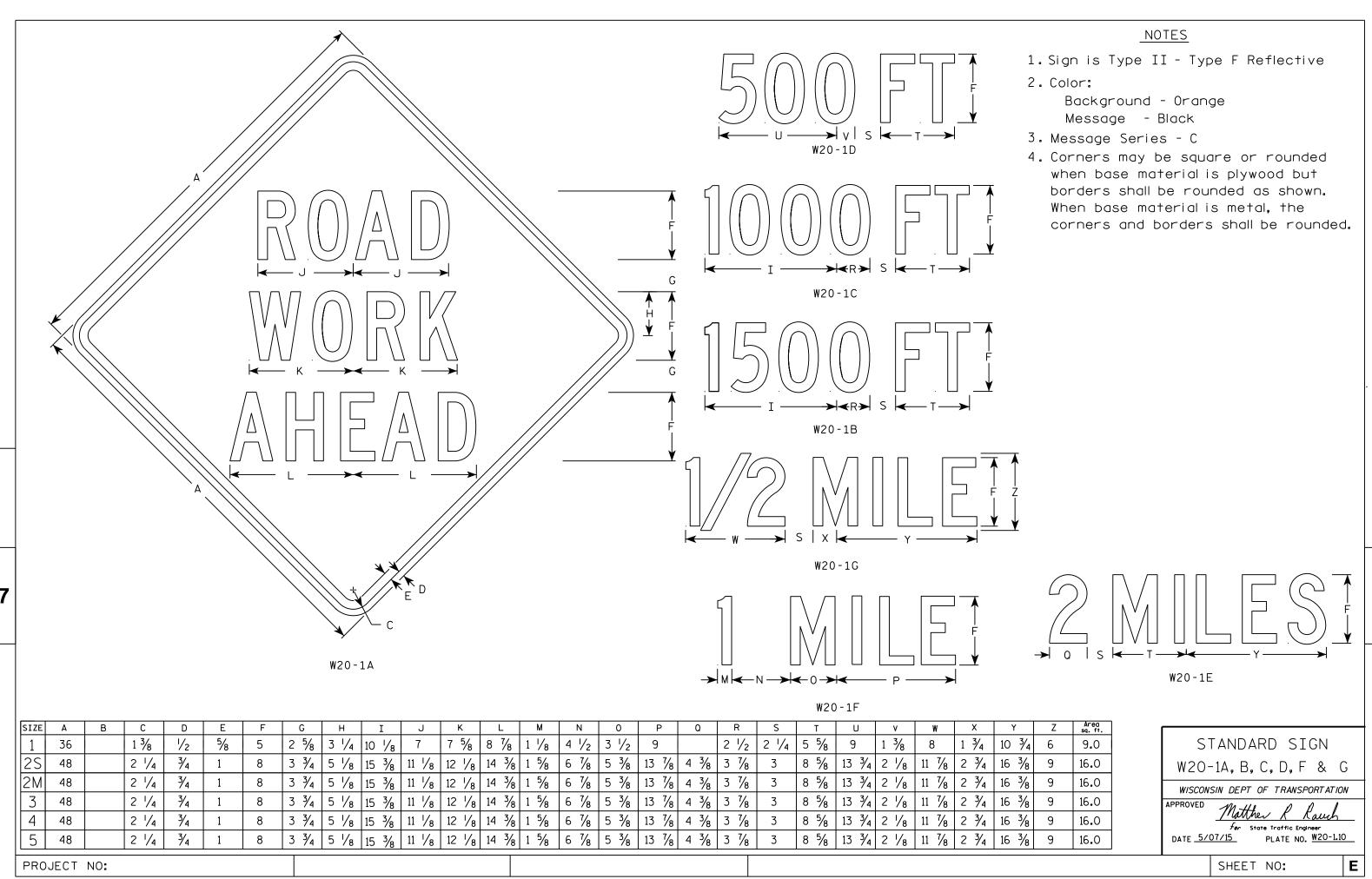


FILE NAME : C:\Users\PROJECTS\tr_stdplate\W143.DGN

PLOT DATE: 07-JUN-2010 13:11

PLOT BY: ditjph

PLOT SCALE: 5.710749:1.000000



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

PIOT RY * \$\$ plotuser \$\$

Notes



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