EAU

PROJECT | WITH: ₽

> O 0

I P U M

DECEMBER 2017

ORDER OF SHEETS

Section No.	1	TItle
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities

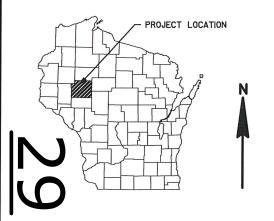
Section No. 3 Miscellaneous Quantitles

Section No. 5 Plan and Profile Standard Detail Drawings Section No. 6

Section No. 7 Sign Plates Section No. 8 Structure Plans

Section No. 9 Cross Sections

TOTAL SHEETS = 182



DESIGN I	DESIGNATION	NO	
			B-9-16 B-9-124.125.126
A.A.D.T.	2017	=	1900 — 3500
A.A.D.T.	2037	=	2300 — 4400
D.H.V.		=	280 ——— 280
D.D.		=	60/40 60/40
T.		=	16.6% 16.6%
DESIGN SF	PEED	=	60 MPH 60 MPH
FSALS		=	790.000 1.800.000

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	<u> </u>
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	L
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	==
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-caution-
MARSH AREA	(

WOODED OR SHRUB AREA

PROFILE
GRADE LINE
ORIGINAL GROUND
MARSH OR ROCK PROFILE (To be noted as such)
SPECIAL DITCH
GRADE ELEVATION
CULVERT (Profile View)
UTILITIES
ELECTRIC
FIBER OPTIC
GAS
SANITARY SEWER
STORM SEWER

TELEPHONE

POWER POLE

UTILITY PEDESTAL

TELEPHONE POLE

WATER

ROCK LABEL 	
E — FO — G — SAN — SS — T — W — X	<u>E</u>

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CHIPPEWA FALLS - BLOOMER

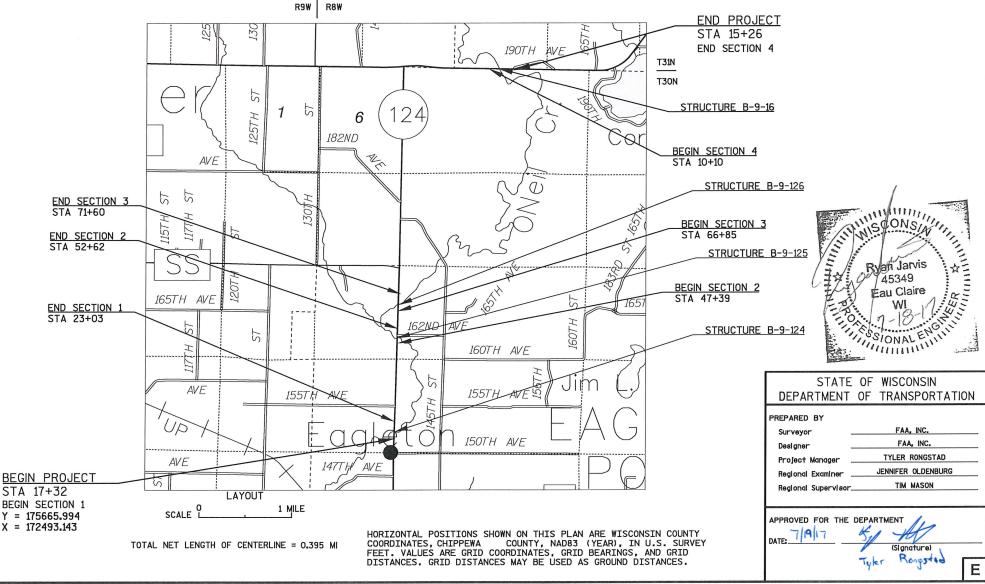
ONEILL CR BRG B-09-124, 125, 126, 0016

STH 124

CHIPPEWA COUNTY

STATE PROJECT NUMBER 8610-07-73

R8W



FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2018027

STATE PROJECT

8610-07-73

STANDARD ABBREVIATIONS

LEFT ABUT ABUTMENT LANE LUMP SUM AC ACRE LN LS AGG AGGREGATE ASPH LT **ASPHALTIC** LEFT AVG AVERAGE MAX MAXIMUM ADT AVERAGE DAILY TRAFFIC MANHOLE BAH BEARING AHEAD MINIMUM MILE BBK BEARING BACK ML MAINLINE BF BACK FACE NORTH BM BENCH MARK NORMAL CROWN BR BRIDGE C/L NO NUMBER CENTER LINE CENTRAL ANGLE OR DELTA NOF NORMAL ∆ CE OBLITERATE OBLIT COMMERCIAL ENTRANCE PAVT **PAVEMENT** CMP CORRIGATED METAL PIPE POINT OF CURVATURE CONC CONCRETE PΕ PRIVATE ENTRANCE CULVERT PIPE POINT OF INTERSECTION CP CONTROL POINT POINT OF BEGINNING CULVERT PIPE CORRUGATED POLYETHYLENE CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE—III CPCP POE POINT OF ENDING CPRCHE POINT OF TANGENCY PVC POINT OF VERTICAL CURVATURE CR CRFFK CWT HUNDREDWEIGHT POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE CY CUBIC YARD PVRC CURB AND GUTTER PVT POINT OF VERTICAL TANGENCY DEGREE OF CURVE/BOX DEPTH R/RAD **RADIUS** REINFORCED CONCRETE CULVERT PIPE DHV DESIGN HOUR VOLÚME RUCP DIRECTIONAL DISTRIBUTION RFO'D DD REQUIRED RESIDENCE OR RESIDENTIAL DISCH DISCHARGE RES RIGHT-HAND FORWARD DITCH GRADE RHF DG DWY DRIVEWAY R/W RIGHT OF WAY EAST ROAD RDWY ROADWAY EL/ELEV **ELEVATION** ENTRANCE RR RAILROAD RT RIGHT **ESALS** EQUIVALENT SINGLE AXLE LOADS SALVAGED SALV EXC **EXCAVATION** SAN S SANITARY SEWER EXCAVATION BELOW SUBGRADE FBS SOUTH EXIST FXISTING SQ **SQUARE** FIELD ENTRANCE FE SF SQUARE FEET FERT **FERTILIZE** SY SQUARE YARD FF FACE TO FACE STANDARD DETAIL DRAWINGS SDD FL FLOW LINE STH STATE TRUNK HIGHWAYS FO FIBER OPTIC STA STATION FS FULL SUPER ELEVATION STORM SEWER SS FT SUPERELEVATION GRADE TANGENT LENGTH НМА HOT MIX ASPHALT TRUCKS (PERCENT OF) HYD HYDRANT TC TOP OF CURB INSIDE DIAMETER T OR TN TOWN INV INVERT TEMPORARY LIMITED EASEMENT TLE IRON PIPE OR PIN ΙP TON RATE OF VERTICAL CURVATURE TYP. **TYPICAL** LHF LEFT-HAND FORWARD VAR VARIABLE LENGTH OF CURVE VC VERTICAL CURVE LB POUND LINEAR FOOT EAST GRID COORDINATE LCB LONG CHORD BEARING NORTH GRID COORDINATE LC LONG CHORD YD YARD LN LANE

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO USGS DATUM.

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

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOILED, FERTILIZED, SEEDED AND MULCHED. SEED MIXTURE NO. 20 SHALL BE USED THROUGHT THE PROJECT. SALVAGED TOPSOILING, FERTILIZING, SEEDING, AND MULCHING ITEMS ARE INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING.

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

SIGN PLATE DETAILS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" UNLESS OTHERWISE PROVIDED FOR IN THE PLAN.

CURVE DATA IS BASED ON THE ARC DEFINITION.

RADIUS DIMENSIONS ARE SHOWN TO FRONT FACE OF GUARDRAIL OR EDGE OF PAVEMENT.

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

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

PRIOR TO THE PLACEMENT OF MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.

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

5-INCH ASPHALTIC SURFACE SHALL CONSIST OF TWO 21/2-INCH LAYERS.

DESIGN CONTACT

FLEMING, ANDRE & ASSOCIATES, INC. 3615 N. HASTINGS WAY SUITE 100 EAU CLAIRE, WI. 54703-0474 ATTENTION: MATT GUNDRY PHONE: 715-832-8400 mjgundry@faa-engineers.com

W.D.N.R. CONTACT

WISCONSIN DNR 1300 WEST CLAIREMONT AVE EAU CLAIRE, WI 54702 ATTN: CHRIS WILLGER PHONE: 715-839-1609 christopherj.willger@wisconsin.gov

UTILITIES

COMMUNICATION

CENTURYLINK P.O. BOX 78 HAWKINGS WI 54530 ATTN: BRIAN HUHN MOBILE: 715-563-8294 brian.huhn@centurvlink.com

ELECTRIC

CHIPPEWA VALLEY ELECTRIC COOPERATIVE 317 S 8TH ST P.O. BOX 575 CORNELL, WI 54732-0575 ATTN: ROD PATTEN PHONE: 715-239-6800 rpatten@cve.coop



PROJECT NO: 8610-07-73

HWY: STH 124

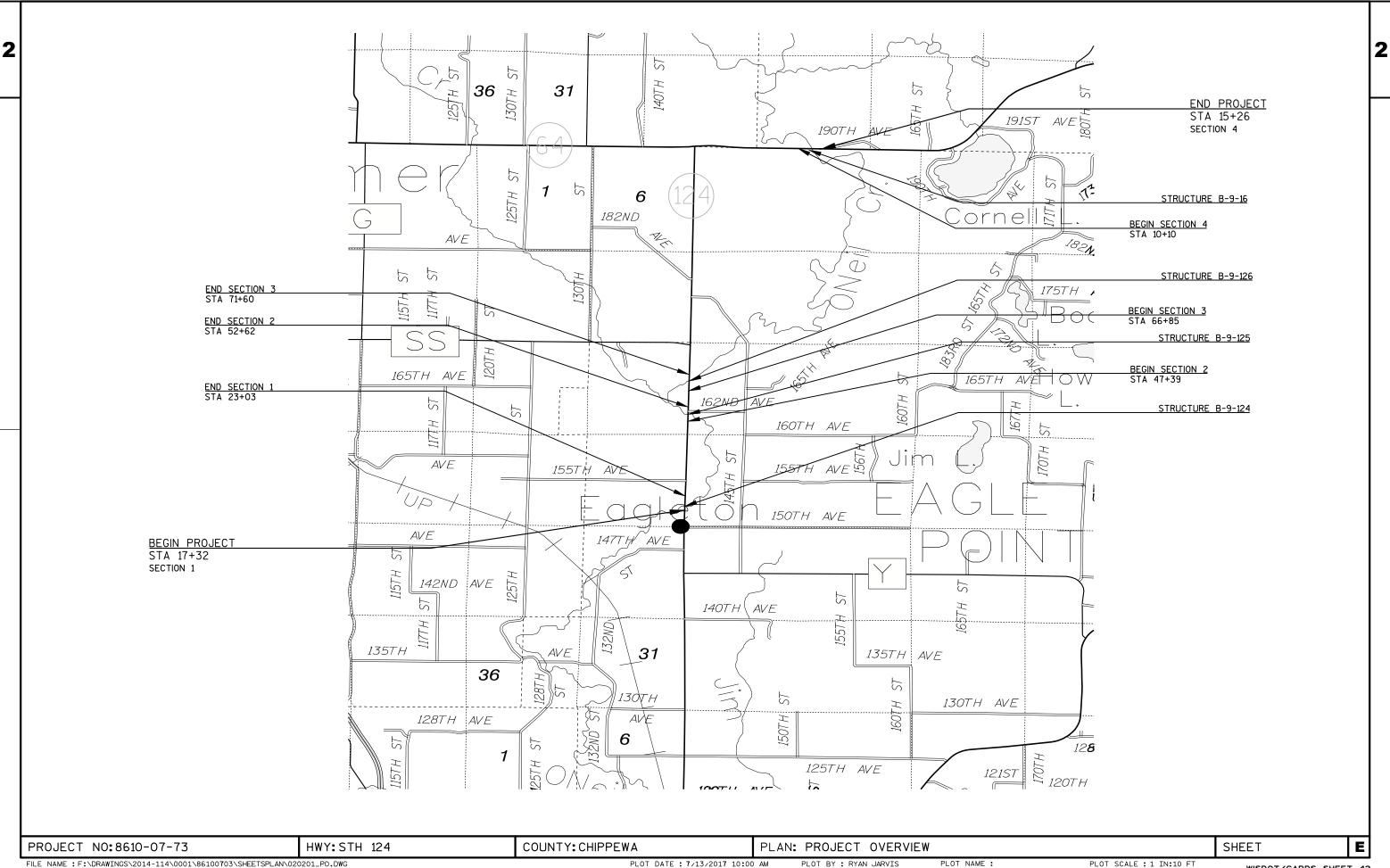
COUNTY: CHIPPEWA

GENERAL NOTES

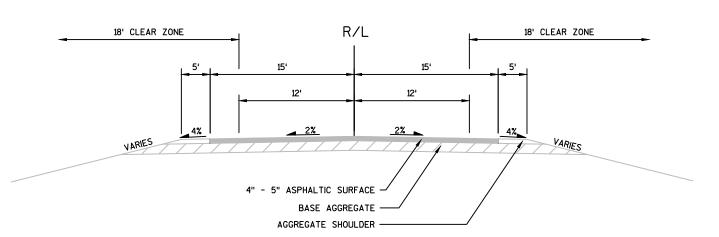
SHEET

PLOT SCALE: 0.003526

Ε



2

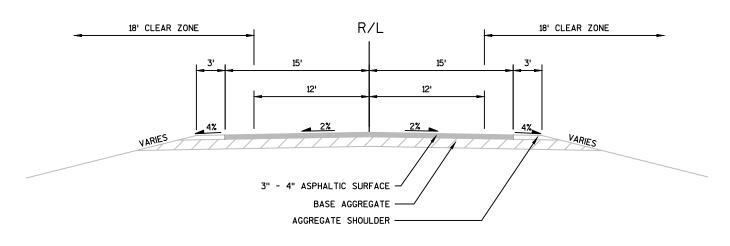


EXISTING TYPICAL SECTION STH 124

STA 17+32 TO STA 19+60 STA 20+40 TO STA 23+03

STA 47+39 TO STA 49+65 STA 50+34 TO STA 52+62

STA 66+85 TO STA 69+05 STA 69+60 TO STA 71+60



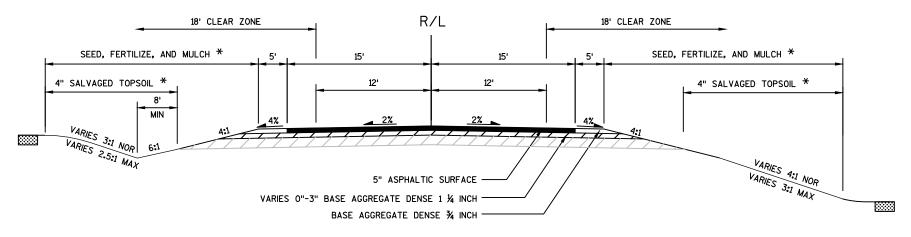
EXISTING TYPICAL SECTION STH 64

STA 10+10 TO STA 12+34 STA 13+02 TO STA 15+26

PROJECT NO:8610-07-73 HWY:STH 124 COUNTY:CHIPPEWA PLAN: EXISTING TYPICAL SECTIONS SHEET **E**

2





FINISHED TYPICAL SECTION STH 124

SECTION 1

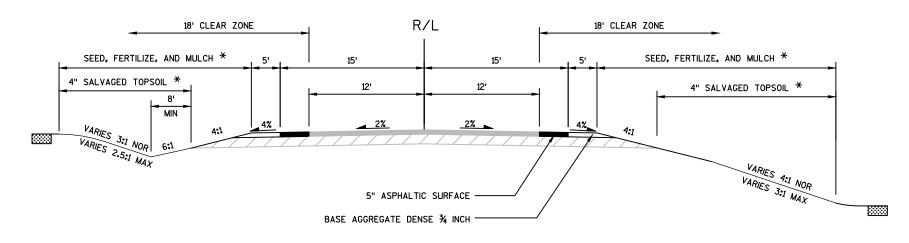
STA 18+83 TO STA 19+60 STA 20+40 TO STA 21+06

SECTION 2

STA 48+23 TO STA 49+65 STA 50+34 TO STA 50+85

SECTION 3

STA 67+50 TO STA 69+05 STA 69+60 TO STA 70+75



FINISHED TYPICAL SECTION STH 124

SECTION 1

STA 17+32 TO STA 18+83 STA 21+06 TO STA 23+03

SECTION 2

STA 47+39 TO STA 48+23 STA 50+85 TO STA 52+62

SECTION 3

STA 66+85 TO STA 67+50 STA 70+75 TO STA 71+60

HWY:STH 124

PLAN: FINISHED TYPICAL SECTIONS

PLOT NAME :

SHEET

COUNTY: CHIPPEWA

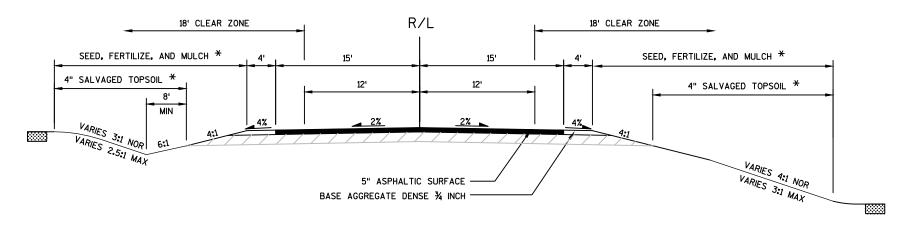
* ITEMS ARE INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING

E

2

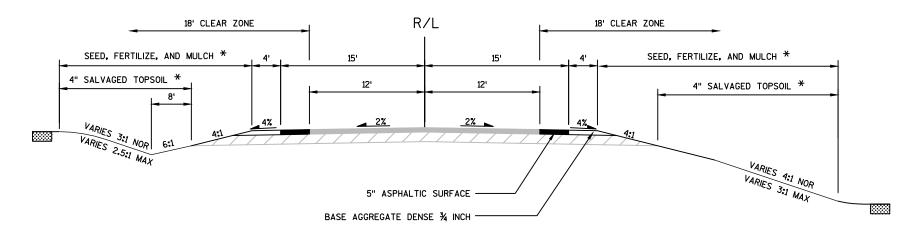
PROJECT NO: 8610-07-73





FINISHED TYPICAL SECTION STH 64

<u>SECTION 4</u> STA 11+75 TO STA 12+34 STA 13+02 TO STA 13+60



FINISHED TYPICAL SECTION STH 64

<u>SECTION 4</u> STA 10+10 TO STA 11+75 STA 13+60 TO STA 15+26

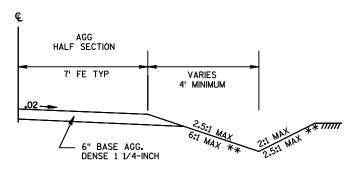
f x ITEMS ARE INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING

PROJECT NO:8610-07-73 HWY:STH 124 COUNTY:CHIPPEWA PLAN: FINISHED TYPICAL SECTIONS SHEET **E**

NOTE:

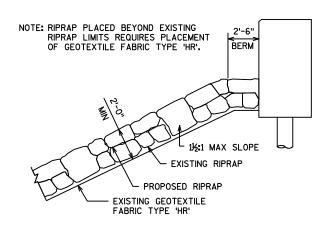
ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 1½ -INCH"

RURAL DRIVEWAY DETAIL - AGG

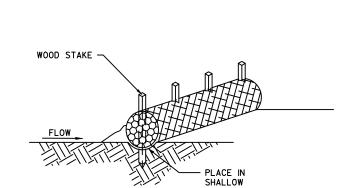


** WITHIN CLEAR ZONE

TYPICAL SECTION
FOR RURAL DRIVEWAYS - AGG

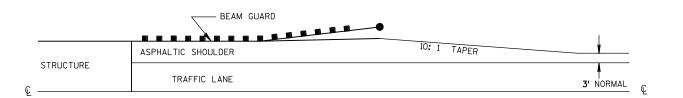


RIPRAP REPAIR DETAIL AT ABUTMENTS

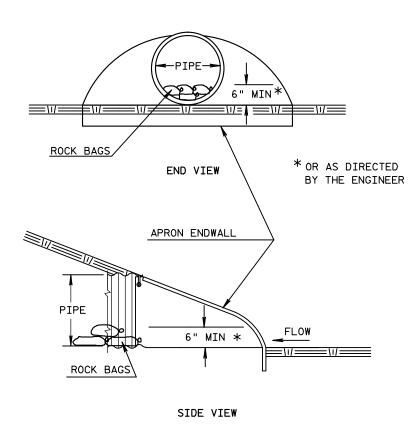


TEMPORARY DITCH CHECKS

SHOWING TYPICAL SEDIMENT LOG INSTALLATION. SEE SDD 8E8-3 "TYPICAL INSTALLATIONS OF EROSION BALES/TEMPORARY DITCH CHECKS" FOR ADDITIONAL INFORMATION AND ALTERNATIVES

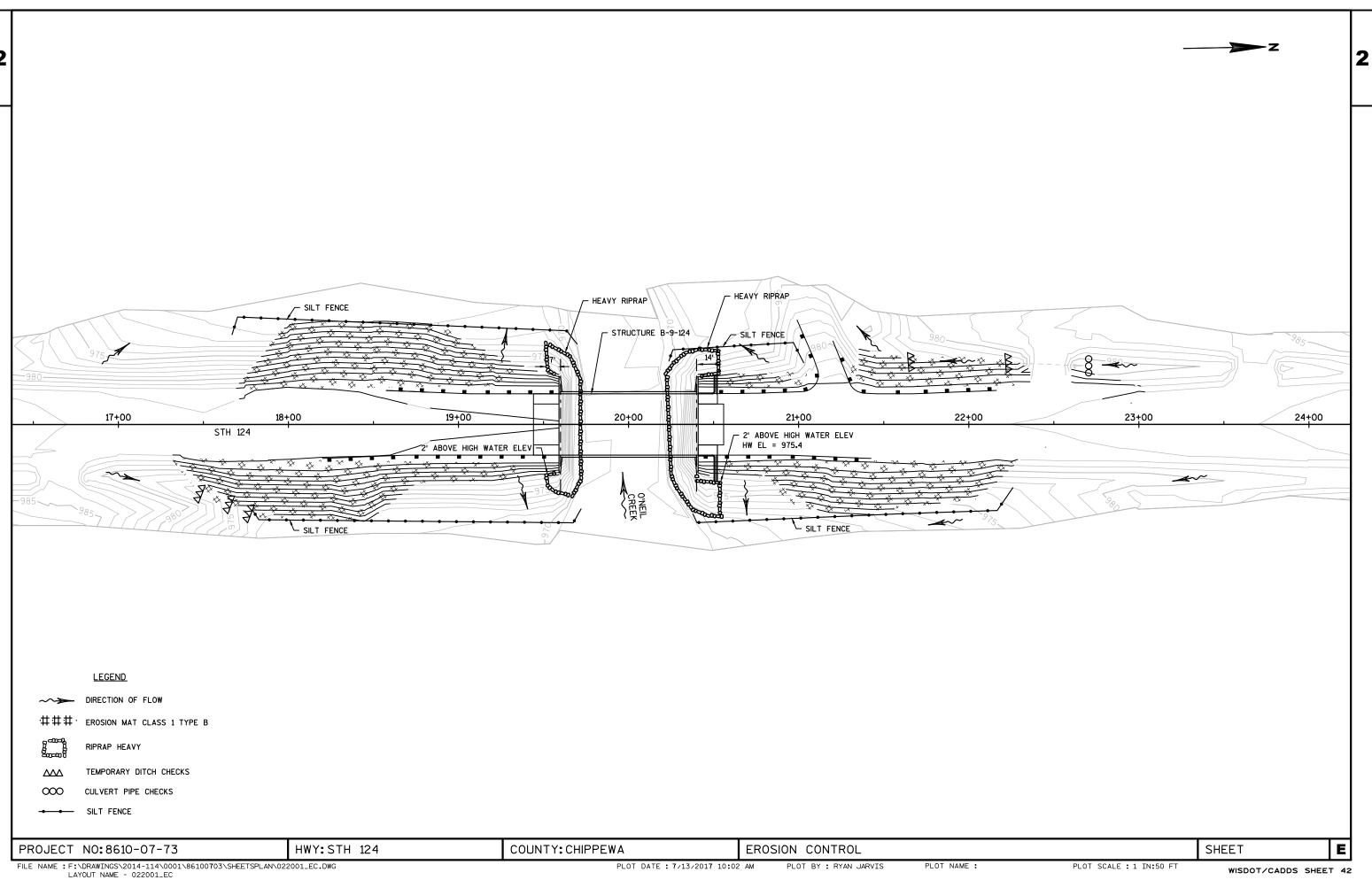


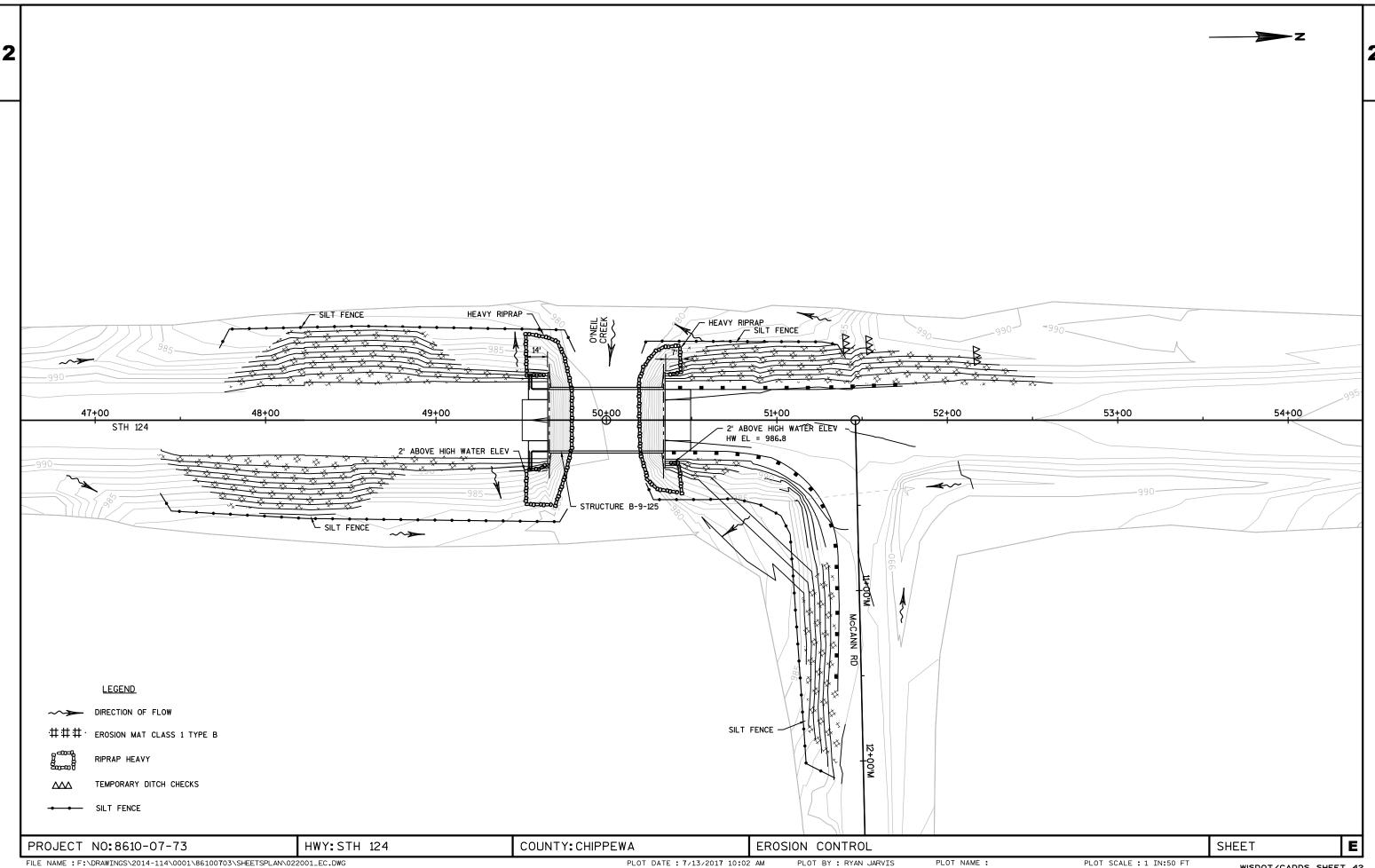
DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

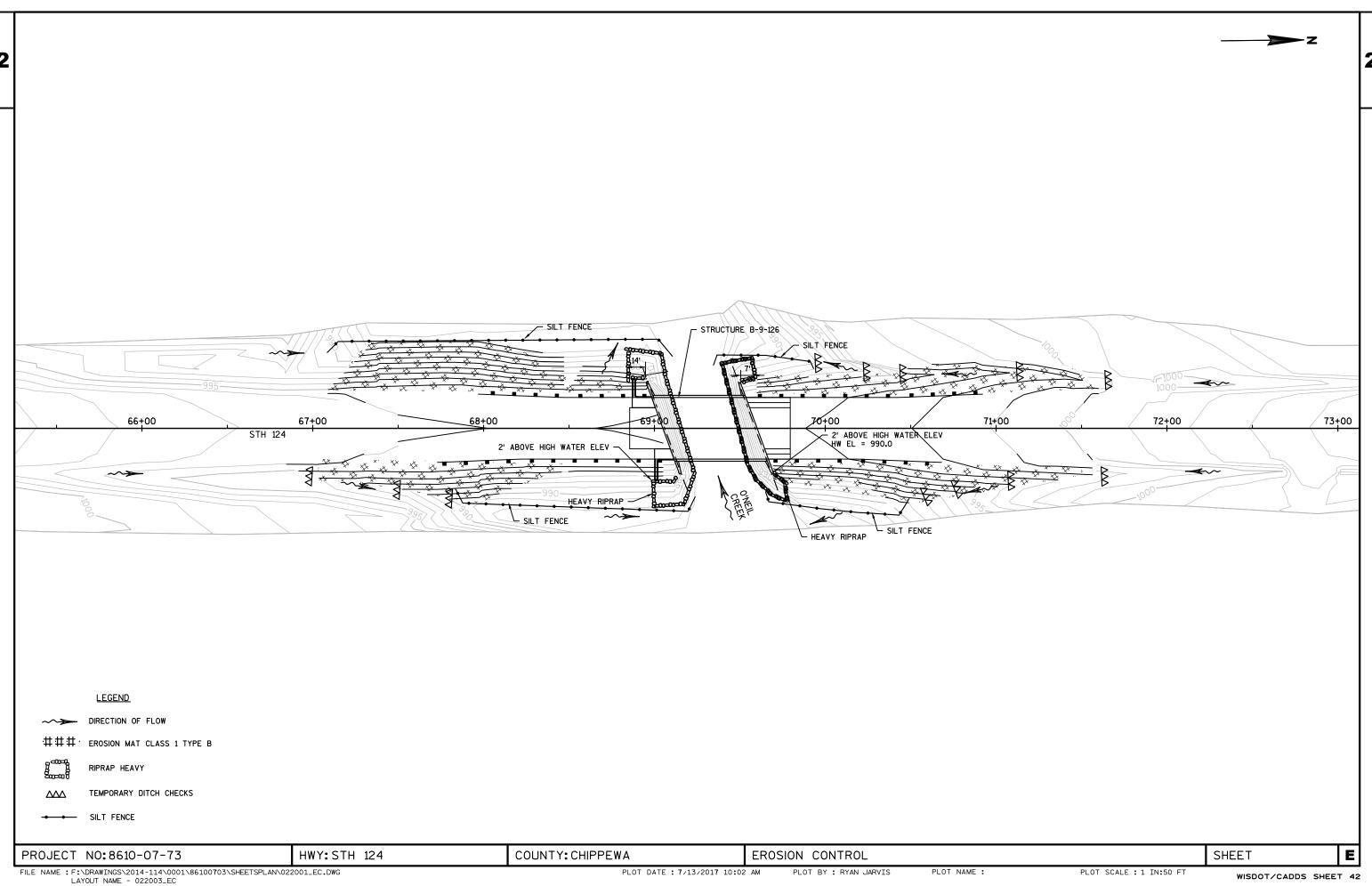


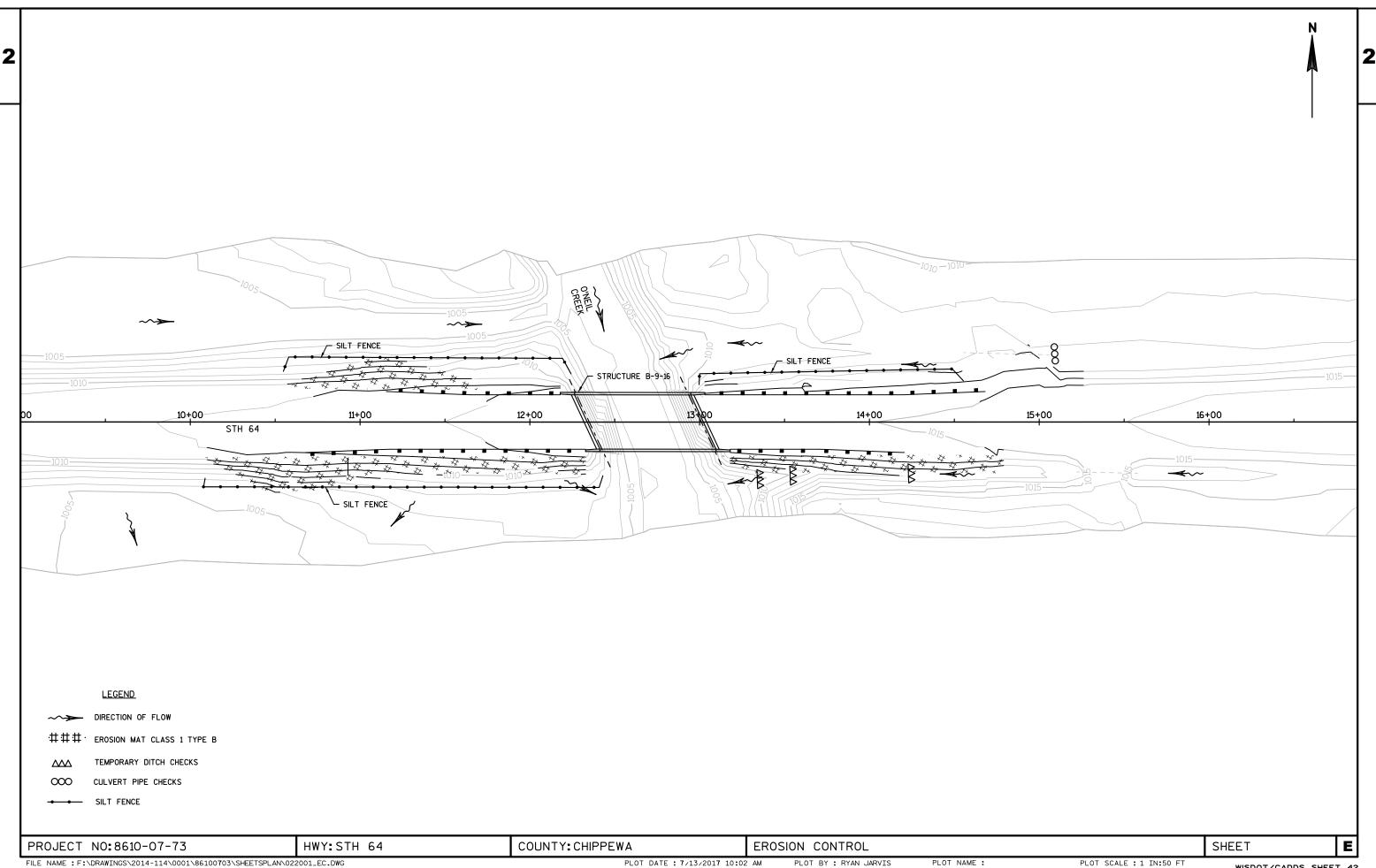
CULVERT PIPE CHECKS

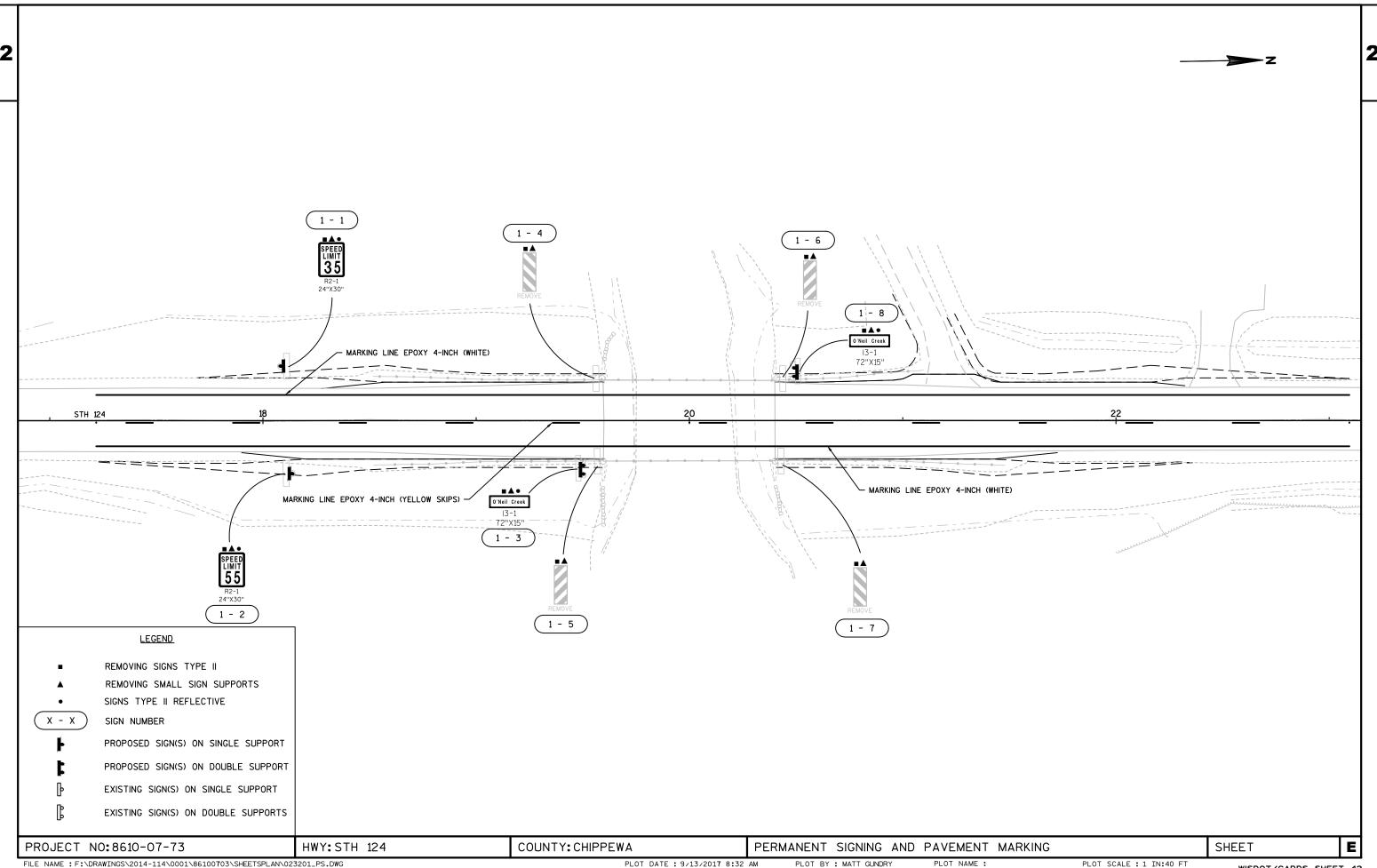
PROJECT NO:8610-07-73 HWY:STH 124 COUNTY:CHIPPEWA PLAN: CONSTRUCTION DETAILS SHEET **E**

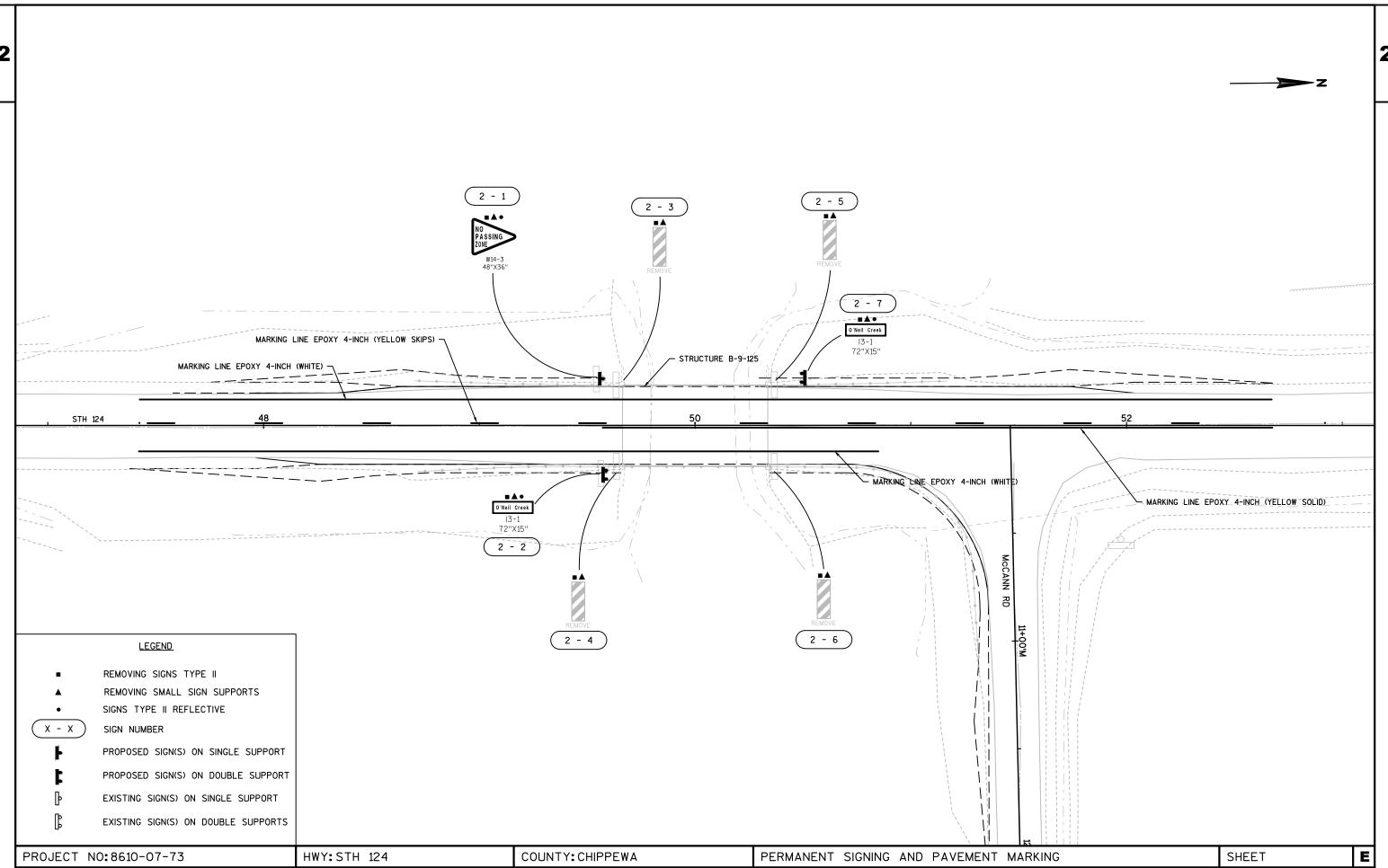


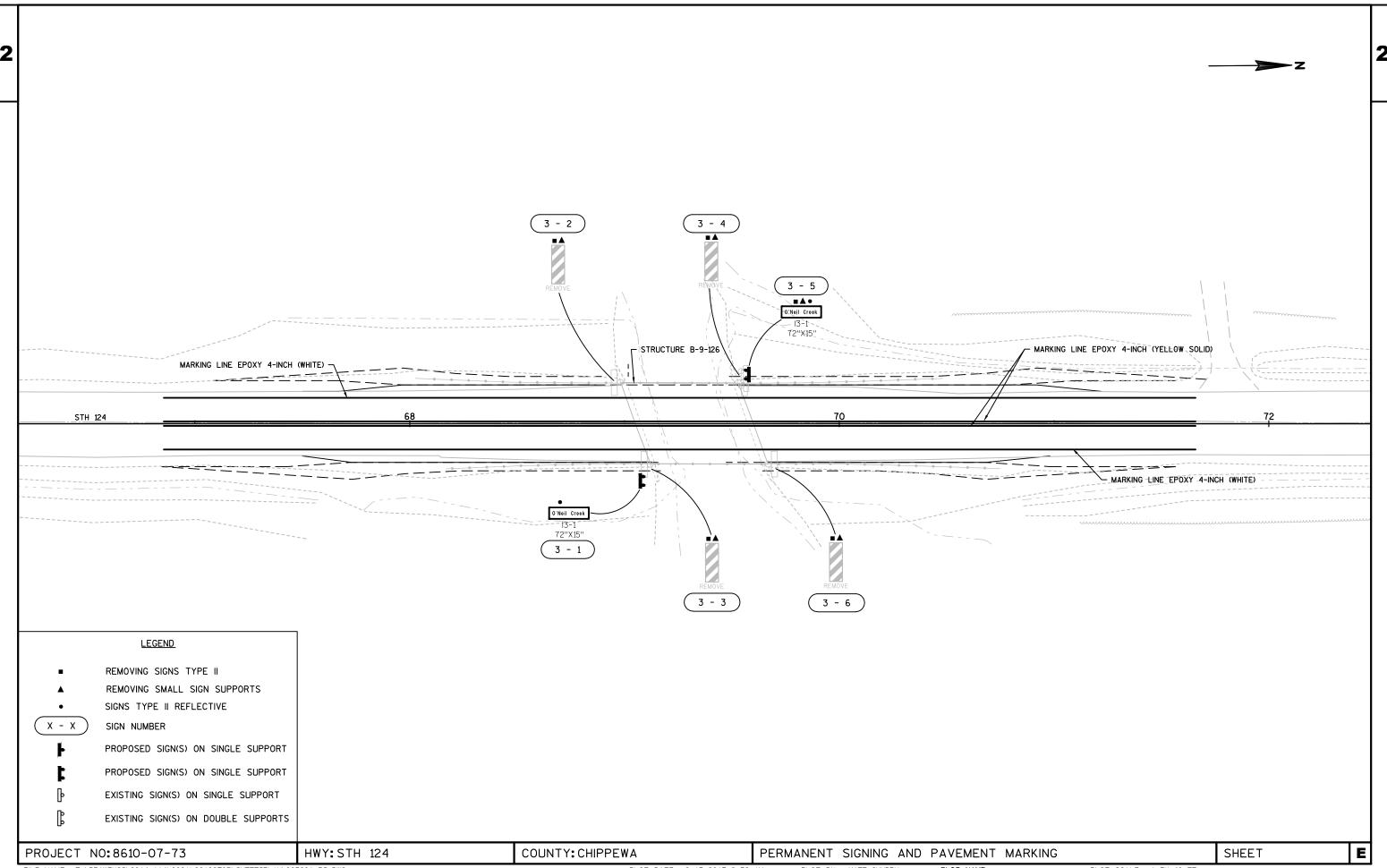


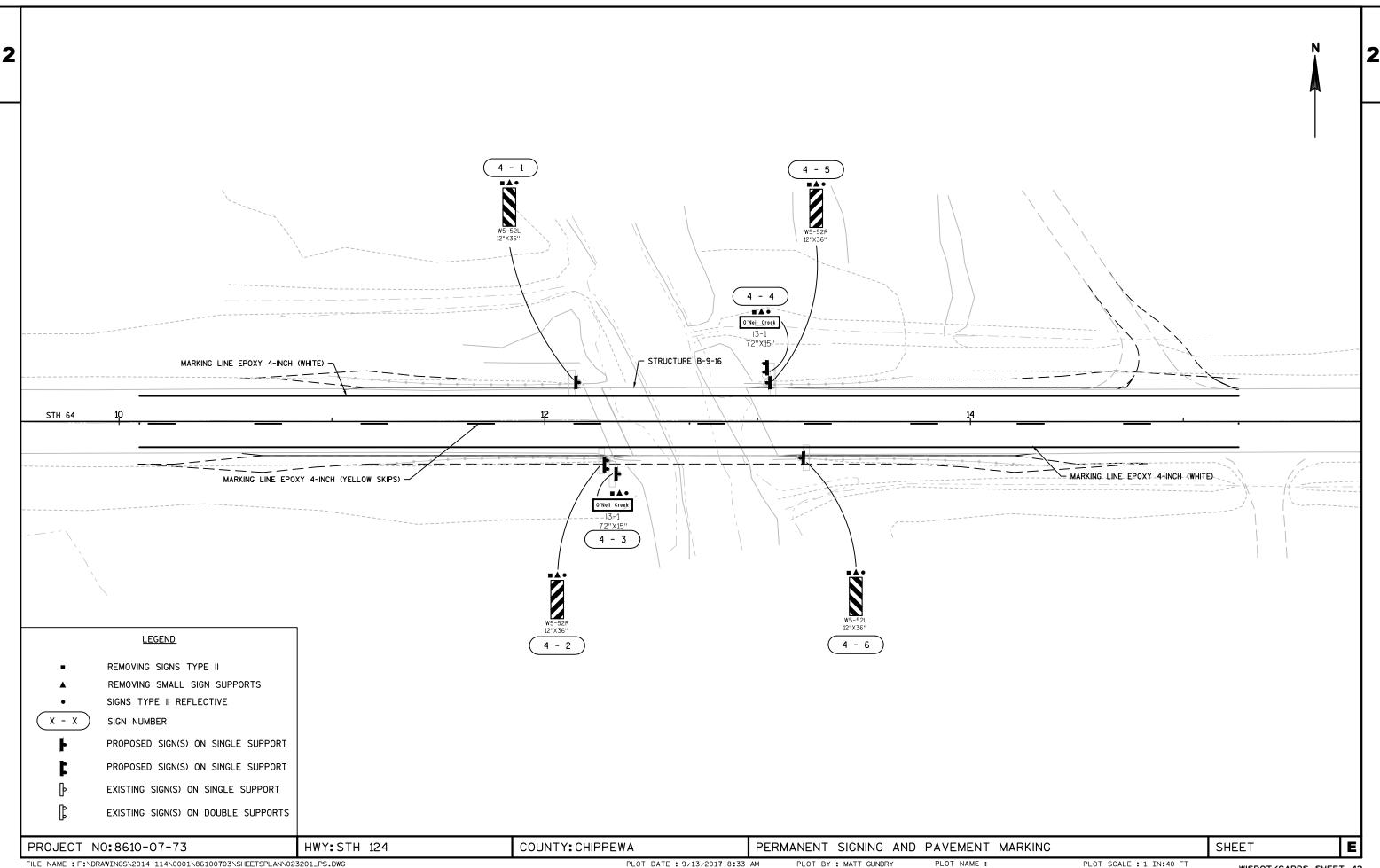


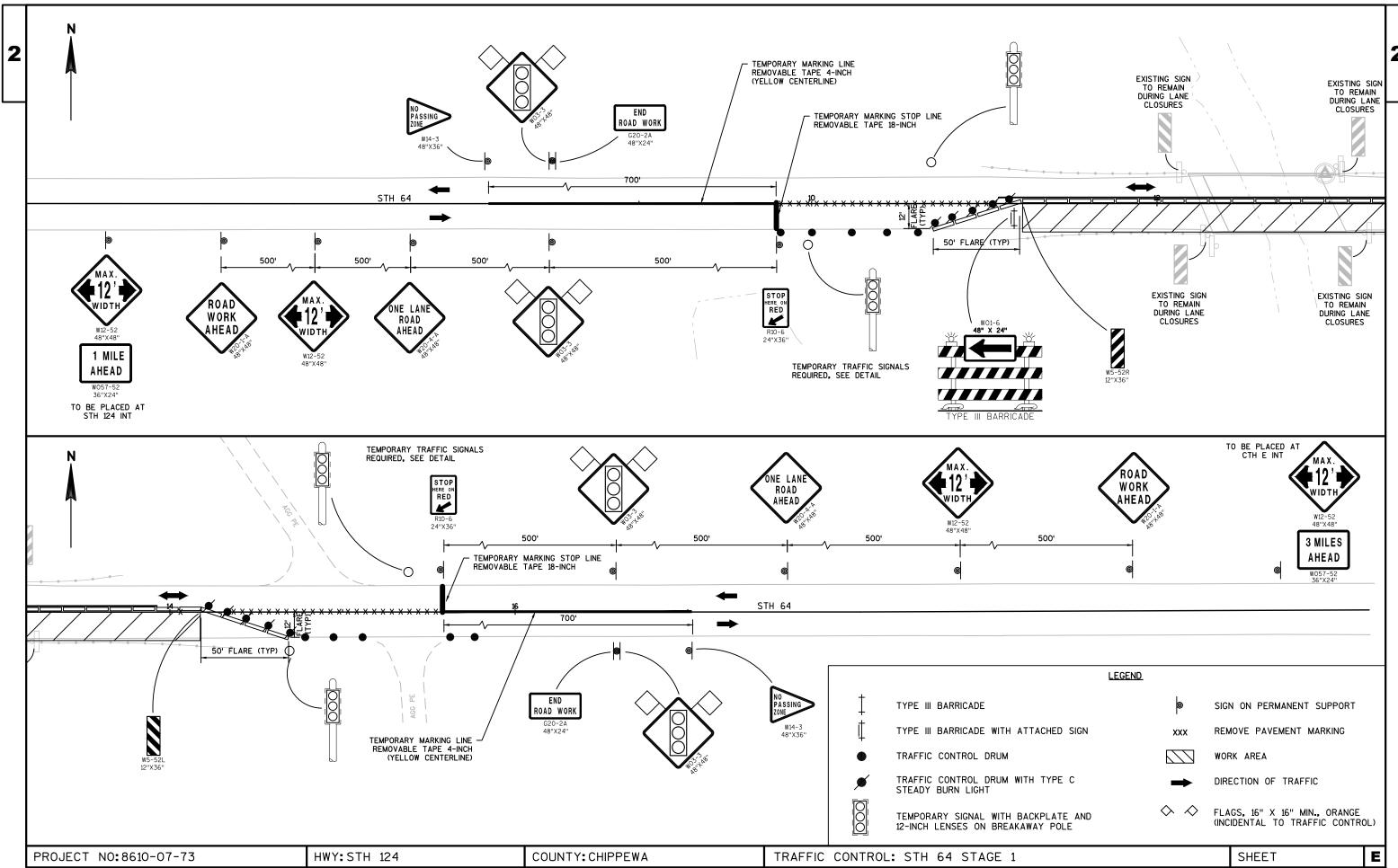


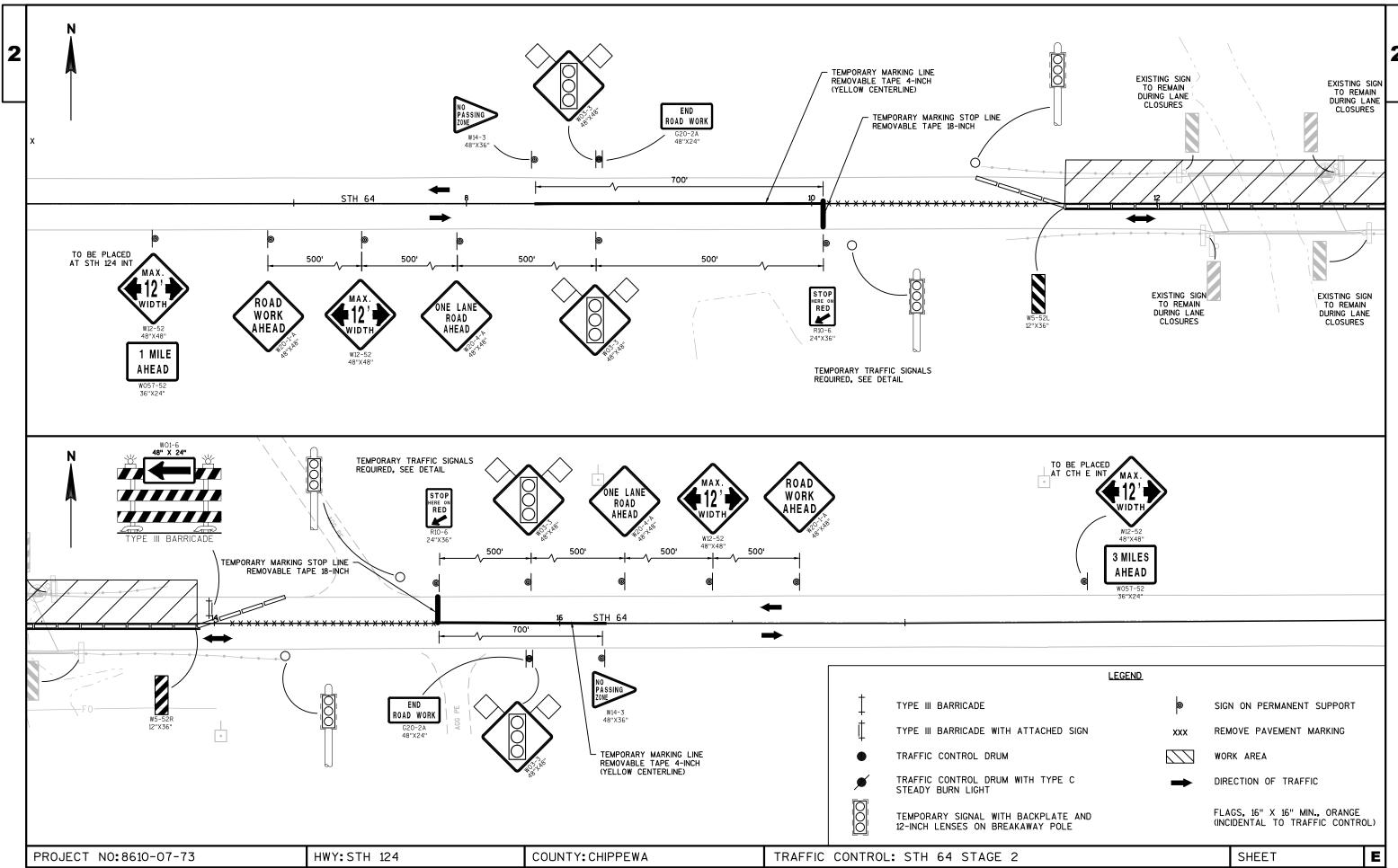


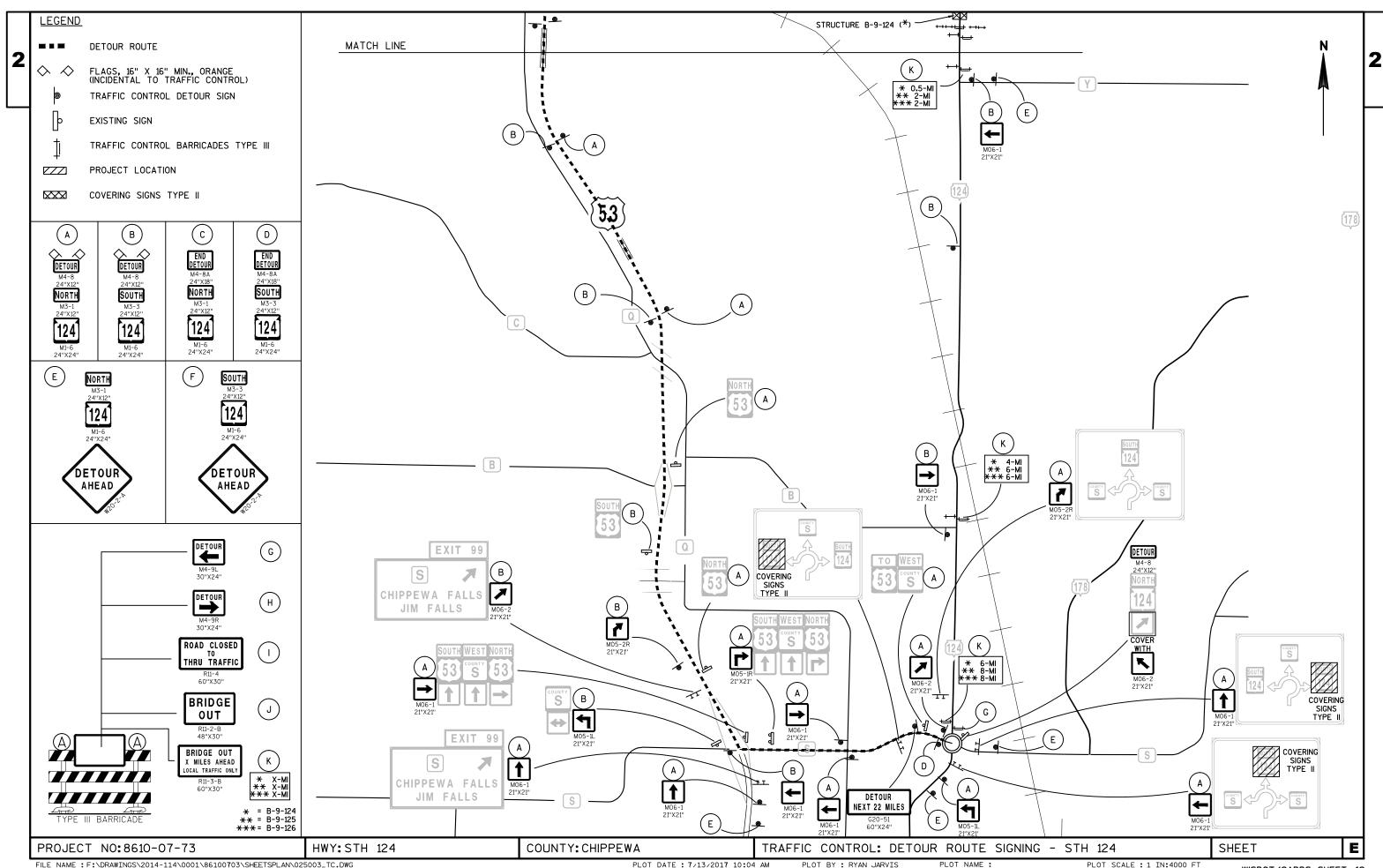


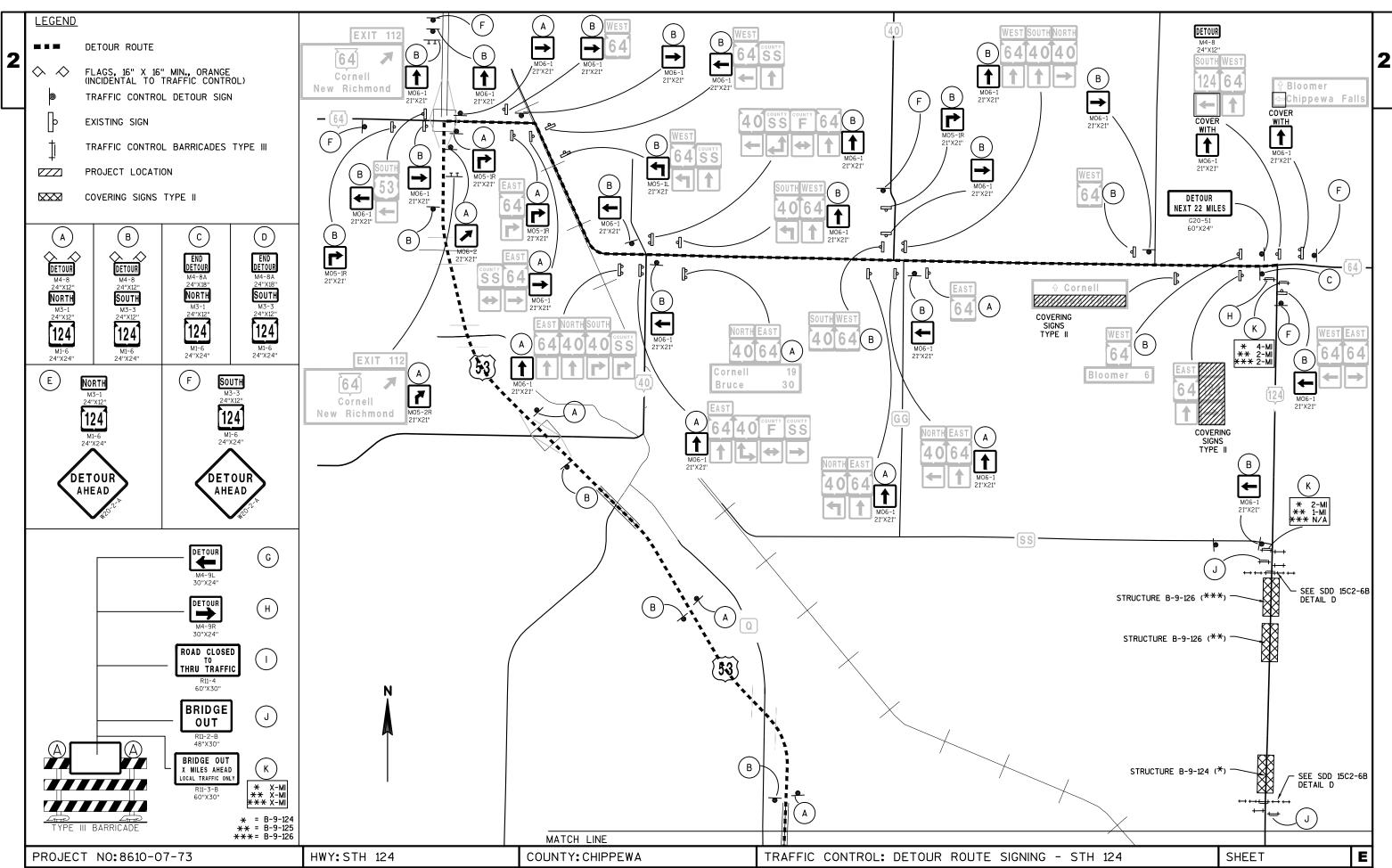




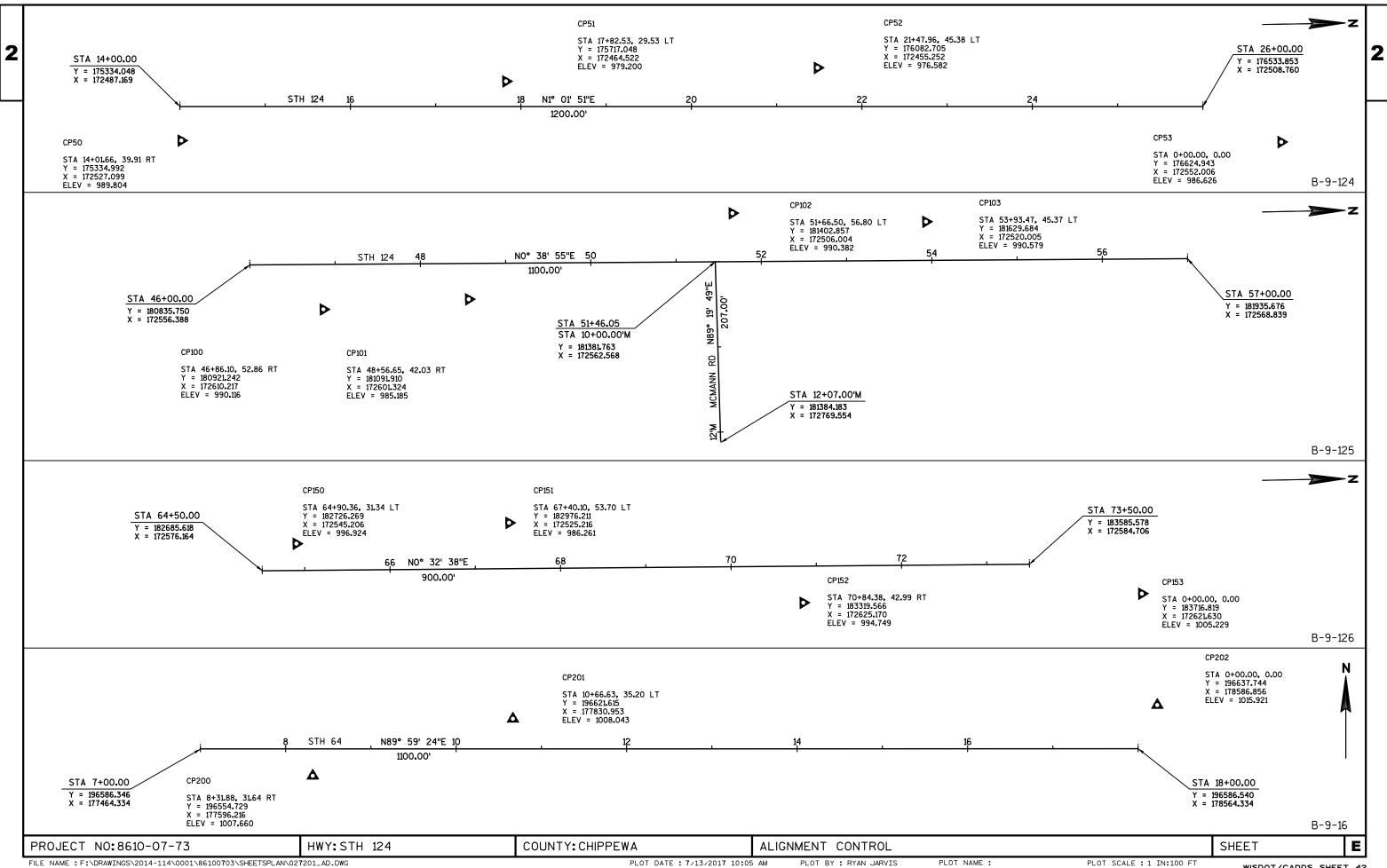








PLOT BY : RYAN JARVIS



Page 1	
--------	--

					8610-07-73
Line	Item	Item Description	Unit	Total	Qty
0002	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 20+00	LS	1.000	1.000
0004	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 02. 50+00	LS	1.000	1.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 03. 69+32.50	LS	1.000	1.000
8000	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 04. 12+68	LS	1.000	1.000
0010	204.0110	Removing Asphaltic Surface	SY	3,000.000	3,000.000
0012	204.0165	Removing Guardrail	LF	2,070.000	2,070.000
0014	206.1000	Excavation for Structures Bridges (structure) 01. B-09-0016	LS	1.000	1.000
0016	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 8610-07-73	LS	1.000	1.000
0018	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	18.000	18.000
0020	213.0100	Finishing Roadway (project) 01. 8610-07-73	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	410.000	410.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	170.000	170.000
0026	415.0070	Concrete Pavement 7-Inch	SY	66.000	66.000
0028	415.0410	Concrete Pavement Approach Slab	SY	264.000	264.000
0030	416.1010	Concrete Surface Drains	CY	16.000	16.000
0032	455.0605	Tack Coat	GAL	150.000	150.000
0034	465.0105	Asphaltic Surface	TON	860.000	860.000
0036	465.0115	Asphaltic Surface Detours	TON	150.000	150.000
0038	502.0100	Concrete Masonry Bridges	CY	307.000	307.000
0040	502.3200	Protective Surface Treatment	SY	1,037.000	1,037.000
0042	502.3210	Pigmented Surface Sealer	SY	177.000	177.000
0044	502.4205	Adhesive Anchors No. 5 Bar	EACH	24.000	24.000
0044	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	63,040.000	63,040.000
0048	505.0000	Bar Couplers No. 6	EACH	16.000	16.000
0050	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	7.000	7.000
0050	506.2605 506.7050.S	-	EACH	7.000	7.000
0052	509.0500	Cleaning Decks	SY	222.000	222.000
	509.0500	Concrete Masonry Overlay Decks	CY	13.000	
0056					13.000
0058	516.0500	Rubberized Membrane Waterproofing	SY	15.000	15.000
0060	603.8000	Concrete Barrier Temporary Precast Delivered	LF	400.000	400.000
0062	603.8125	Concrete Barrier Temporary Precast Installed	LF	400.000	400.000
0064	606.0300	Riprap Heavy	CY	270.000	270.000
0066	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0068	614.0010	Barrier System Grading Shaping Finishing	EACH	16.000	16.000
0070	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	12.000	12.000

					8610-07-73
Line	Item	Item Description	Unit	Total	Qty
0072	614.2300	MGS Guardrail 3	LF	638.000	638.000
0074	614.2350	MGS Guardrail Short Radius	LF	113.000	113.000
0076	614.2500	MGS Thrie Beam Transition	LF	630.000	630.000
0078	614.2610	MGS Guardrail Terminal EAT	EACH	16.000	16.000
0080	614.2630	MGS Guardrail Short Radius Terminal	EACH	3.000	3.000
0082	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8610-07-73	EACH	1.000	1.000
0084	619.1000	Mobilization	EACH	1.000	1.000
0086	624.0100	Water	MGAL	9.000	9.000
8800	628.1504	Silt Fence	LF	3,000.000	3,000.000
0090	628.1520	Silt Fence Maintenance	LF	3,000.000	3,000.000
0092	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0094	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0096	628.2004	Erosion Mat Class I Type B	SY	6,000.000	6,000.000
0098	628.7504	Temporary Ditch Checks	LF	360.000	360.000
0100	628.7555	Culvert Pipe Checks	EACH	6.000	6.000
0102	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0104	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	11.000	11.000
0106	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	8.000	8.000
0108	637.2210	Signs Type II Reflective H	SF	76.000	76.000
0110	638.2602	Removing Signs Type II	EACH	24.000	24.000
0112	638.3000	Removing Small Sign Supports	EACH	29.000	29.000
0114	642.5001	Field Office Type B	EACH	1.000	1.000
0116	643.0300	Traffic Control Drums	DAY	400.000	400.000
0118	643.0420	Traffic Control Barricades Type III	DAY	1,815.000	1,815.000
0120	643.0705	Traffic Control Warning Lights Type A	DAY	2,280.000	2,280.000
0122	643.0715	Traffic Control Warning Lights Type C	DAY	150.000	150.000
0124	643.0900	Traffic Control Signs	DAY	23,600.000	23,600.000
0124	643.0920	Traffic Control Covering Signs Type II	EACH	5.000	5.000
0128	643.5000	Traffic Control	EACH	1.000	1.000
0130	645.0120	Geotextile Type HR	SY	165.000	165.000
0130	646.1020	Marking Line Epoxy 4-Inch	LF	5,635.000	5,635.000
0134	646.9000	Marking Removal Line 4-Inch	LF	280.000	280.000
0134	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,400.000	1,400.000
0138				60.000	
	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch			60.000
0140	650.5000	Construction Staking Base	LF	717.000	717.000
0142	650.6500	Construction Staking Structure Layout (structure) 01. B- 09-0124	LO	1.000	1.000
0144	650.6500	Construction Staking Structure Layout (structure) 02. B-09-0125	LS	1.000	1.000

Estimate Of Quantities Page 3

					8610-07-73
Line	Item	Item Description	Unit	Total	Qty
0146	650.6500	Construction Staking Structure Layout (structure) 03. B-09-0126	LS	1.000	1.000
0148	650.9910	Construction Staking Supplemental Control (project) 01. 8610-07-73	LS	1.000	1.000
0150	650.9920	Construction Staking Slope Stakes	LF	1,807.000	1,807.000
0152	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-09-0016	LS	1.000	1.000
0154	690.0150	Sawing Asphalt	LF	1,230.000	1,230.000
0156	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0158	715.0502	Incentive Strength Concrete Structures	DOL	2,164.000	2,164.000
0160	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0162	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	1,200.000	1,200.000

			ALTIC SURFACE	
	204.0110			
STATION	TO	STATION	LOCATION	SY
17+90	TO	19+59	B-9-124 S APPROACH	340
20+41	TO	22+33	B-9-124 N APPROACH	330
47+96	TO	49+65	B-9-125 S APPROACH	540
50+34	TO	52+04	B-9-125 N APPROACH	240
67+43	TO	69+05	B-9-126 S APPROACH	560
69+61	TO	71+22	B-9-126 N APPROACH	440
10+53	TO	12+32	B-9-16 S APPROACH	260
13+05	TO	15+47	B-9-16 N APPROACH	290
ITEM TOTAL	_			3000

	REMOVING GUARDRAIL						
STATION	ТО	STATION	LOCATION	LF			
18+52	TO	21+10	B-9-124	555			
48+71	TO	51+31	B-9-125	575			
68+10	TO	70+75	B-9-126	505			
10+98	TO	14+38	B-9-16	435			
ITEM TOTAL	ITEM TOTAL						

PREPARE FOUNDATION FOR	ASPHALTIC PAVING (PROJECT) 8610-07-73	211.0100
STATION TO STATION	LOCATION	LS
PROJECT	MAINLINE	1
ITEM TOTAL		1

E FOL	INDATION FOI	R ASPHALTIC SHOULDERS	211.0400
TO	STATION	LOCATION	STA
TO	19+59	B-9-124 S APPROACH RT	2
TO	19+59	B-9-124 S APPROACH LT	2
TO	21+73	B-9-124 N APPROACH RT	1
TO	22+33	B-9-124 N APPROACH LT	2
TO	48+23	B-9-125 S APPROACH RT	1
TO	52+04	B-9-125 N APPROACH LT	2
TO	70+98	B-9-126 N APPROACH RT	1
ТО	71+22	B-9-126 N APPROACH LT	1
TO	11+75	B-9-16 S APPROACH RT	2
TO	11+75	B-9-16 S APPROACH LT	1
ТО	14+31	B-9-16 N APPROACH RT	1
TO	15+26	B-9-16 N APPROACH LT	2
,			18
	TO T	TO STATION TO 19+59 TO 19+59 TO 21+73 TO 22+33 TO 48+23 TO 52+04 TO 70+98 TO 71+22 TO 11+75 TO 11+75 TO 14+31 TO 15+26	TO 19+59 B-9-124 S APPROACH RT TO 19+59 B-9-124 S APPROACH LT TO 21+73 B-9-124 N APPROACH RT TO 22+33 B-9-124 N APPROACH LT TO 48+23 B-9-125 S APPROACH RT TO 52+04 B-9-125 N APPROACH LT TO 70+98 B-9-126 N APPROACH RT TO 71+22 B-9-126 N APPROACH LT TO 11+75 B-9-16 S APPROACH RT TO 11+75 B-9-16 S APPROACH LT TO 14+31 B-9-16 N APPROACH RT TO 15+26 B-9-16 N APPROACH LT

FII	VISHING	ROADWAY	(PROJECT)	8610-07-73	213.0100
STATION	TO	STATION		LOCATION	EACH
PROJECT				MAINLINE	1
ITEM TOTAL	L				1

	BASE	AGGREGATE	305.0110	
STATION	ТО	STATION	LOCATION	TON
17+32	TO	19+60	B-9-124 S SHLD	55
20+40	TO	23+03	B-9-124 N SHLD	55
47+39	T0	49+65	B-9-125 S SHLD	40
50+34	TO	52+62	B-9-125 N SHLD	65
66+85	TO	69+05	B-9-126 S SHLD	65
69+60	T0	71+60	B-9-126 N SHLD	50
10+10	TO	12+34	B-9-16 S SHLD	40
13+02	TO	23+03	B-9-16 N SHLD	40
ITEM TOTA	L			410

	BASE	AGGREGATE	DENSE 1 1/4-INCH	305.0120
STATION	ТО	STATION	LOCATION	TON
18+83	ТО	19+45	B-9-124 S APPROACH	15
20+55	T0	21+06	B-9-124 N APPROACH	7
	21+20	LT	STH 124 PE	3
48+23	TO	49+50	B-9-125 S APPROACH	55
50+49	T0	50+85	B-9-125 N APPROACH	10
67+50	TO	68+86	B-9-126 S APPROACH	44
69+80	TO	70+75	B-9-126 N APPROACH	26
	14+85	LT	STH 64 PE	10
ITEM TOTA	170			

	415.0070			
STATION	ТО	STATION	LOCATION	SY
19+45	TO	19+60	B-9-124 S APPROACH	20
50+34	TO	50+49	B-9-125 N APPROACH	20
69+60	TO	69+79	B-9-126 N APPROACH	26
ITEM TOTAL				66

С	415.0410			
STATION	TO	STATION	LOCATION	SY
19+45	ТО	19+60	B-9-124 S APPROACH	40
20+40	TO	20+55	B-9-124 N APPROACH	40
49+50	TO	49+65	B-9-125 S APPROACH	40
50+34	TO	50+49	B-9-125 N APPROACH	40
68+85.5	TO	69+05	B-9-126 S APPROACH	52
69+60	TO	69+79.5	B-9-126 N APPROACH	52
ITEM TOTAL				264

	416.1010			
STATION	TO	STATION	LOCATION	CY
20+40	TO	20+55	B-9-124 N APPROACH	5.5
49+50	TO	49+65	B-9-125 S APPROACH	5.0
68+85.5	TO	69+05	B-9-126 S APPROACH	5.5
ITEM TOTAL				16.0

	TACK COAT					
STATION	ТО	STATION	LOCATION	GAL		
17+90	ТО	19+59	B-9-124 S APPROACH	17		
20+41	TO	22+46	B-9-124 N APPROACH	17		
47+96	TO	49+65	B-9-125 S APPROACH	26		
50+34	TO	52+03	B-9-125 N APPROACH	11		
67+43	TO	69+05	B-9-126 S APPROACH	27		
69+61	TO	71+22	B-9-126 N APPROACH	22		
10+53	TO	12+32	B-9-16 S APPROACH	14		
13+05	TO	15+47	B-9-16 N APPROACH	16		
ITEM TOTAL				150		

ASPHALTIC SURFACE						
TO	STATION	LOCATION	TON			
TO	19+45	B-9-124 S APPROACH	95			
TO	21+06	B-9-124 N APPROACH	100			
TO	49+50	B-9-125 S APPROACH	150			
TO	50+85	B-9-125 N APPROACH	63			
TO	68+86	B-9-126 S APPROACH	155			
TO	70+75	B-9-126 N APPROACH	120			
TO	12+34	B-9-16 S APPROACH	82			
TO	15+26	B-9-16 N APPROACH	95			
			860			
	T0	TO STATION TO 19+45 TO 21+06 TO 49+50 TO 50+85 TO 68+86 TO 70+75 TO 12+34 TO 15+26	TO STATION LOCATION TO 19+45 B-9-124 S APPROACH TO 21+06 B-9-124 N APPROACH TO 49+50 B-9-125 S APPROACH TO 50+85 B-9-125 N APPROACH TO 68+86 B-9-126 S APPROACH TO 70+75 B-9-126 N APPROACH TO 12+34 B-9-16 S APPROACH TO 15+26 B-9-16 N APPROACH			

	465.0115			
STATION	T0	STATION	LOCATION	TON
DETO	OUR R	OUTE	UNDISTRIBUTED	150
ITEM TOTAL			•	150

	606.0300				
STATION	TO	STATION	LOCATION	CY	CATEGORY
	19+60		B-9-124 S ABUT	35	030
	20+40		B-9-124 N ABUT	55	030
	49+65		B-9-125 S ABUT	70	040
	50+34		B-9-125 N ABUT	60	040
	69+05		B-9-126 S ABUT	30	050
	69+60		B-9-126 N ABUT	20	050
ITEM TOTAL				270	

GEOTEXTILE TYPE HR 645.0120					
STATION	ТО	STATION	LOCATION	SY	CATEGORY
	19+60		B-9-124 S ABUT	17	030
	20+40		B-9-124 N ABUT	40	030
	49+65		B-9-125 S ABUT	40	040
	50+34		B-9-125 N ABUT	17	040
	69+05		B-9-126 S ABUT	35	050
	69+60		B-9-126 N ABUT	16	050
TEM TOTAL			1	165	

PROJECT NO:8610-07-73

HWY:STH 124

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

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

SHEET

Ε

PLOT DATE : 7/18/2017 3:22 PM

PLOT NAME :

BARRIER SYSTEM GRADING SHAPING FINISHING									
APPROACH	LOCATION	* EXCAVATION COMMON CY	* BORROW	* SALVAGED TOPSOIL	* MULCHING	* FERTILIZER TYPE B	* SEEDING MIXTURE NO. 20	EACH	
				SY	SY	CWT	LB		
	B-9-124								
SOUTH APPROACH	LT & RT	65	550	1090	1315	0.7	35	2	
NORTH APPROACH	LT & RT	65	150	620	820	0.4	25	2	
	B-9-125								
SOUTH APPROACH	LT & RT	100	250	900	1125	0.6	30	2	
NORTH APPROACH	LT & RT	45	100	720	950	0.5	25	2	
	B-9-126								
SOUTH APPROACH	LT & RT	130	40	685	910	0.4	25	2	
NORTH APPROACH	LT & RT	110		485	700	0.3	20	2	
	B-9-16								
SOUTH APPROACH	LT & RT	75		400	615	0.3	15	2	
NORTH APPROACH	LT & RT	60		280	475	0.2	15	2	
I TOTAL		650	1090	5180	6910	3	190	16	

* FOR INFORMATION ONLY

				GUAF	RDRAIL SUMMARY			
STATION	то	STATION	LOCATION	614.2350 MGS GUARDRAIL SHORT RADIUS LF	614,2630 MGS GUARDRAIL SHORT RADIUS TERMINAL EACH	614.2300 MGS 3 GUARDRAIL LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
		B-9-124		1			•	
18+20.0	TO	19+60.0	RT			50.0	39.4	1
18+57.5	TO	19+60.0	LT			12.5	39.4	1
20+40.0	TO	21+42.5	RT			12.5	39.4	1
20+40.0	TO	21+11.0	LT	25.0	1	50	39.4	
21+35.0	TO	22+16.3	LT	12.5	1	50		1
		B-9-125		_				
48+26.5	TO	49+66.5	RT			50	39.4	1
48+64.0	TO	49+66.5	LT			12.5	39.4	1
50+33.5	T0	51+36.1	RT	75.0		50	39	1
50+33.5	TO	51+73.5	LT			50	39.4	1
		B-9-126						
67+73.0	T0	69+13.0	RT			50	39.4	1
67+96.9	TO	68+99.4	LT			12.5	39.4	1
69+52.0	TO	70+92.0	LT			50	39.4	1
69+65.6	T0	70+68.1	RT			12.5	39.4	1
		B-9-16						
10+67.9	T0	12+32.9	RT			75	39.4	1
11+15.4	TO	12+18.0	LT			12.5	39.4	1
13+03.1	TO	14+68.1	LT		1	75	39.4	1
13+18.0	T0	14+20.6	RT			12.5	39.4	1
TEM TOTAL				113	3	637.5	630	16

PROJECT NO:8610-07-73 HWY:STH 124 COUNTY:CHIPPEWA MISCELLANEOUS QUANTITIES SHEET **E**

			SILT FENCE		
CTATION	Τ0	CTATION	LOCATION	628.1504	628.1520
STATION	TO	STATION	LOCATION	SILT FENCE	SILT FENCE MAINTENANCE
				LF	LF
17+32	TO	19+60	B-9-124 SOUTH	415	415
20+40	TO	23+03	B-9-124 NORTH	290	290
47+39	TO	49+65	B-9-125 SOUTH	475	475
50+34	TO	52+62	B-9-125 NORTH	380	380
66+85	TO	69+05	B-9-126 SOUTH	360	360
69+60	TO	71+60	B-9-126 NORTH	160	160
10+10	TO	12+34	B-9-16 SOUTH	425	425
13+00	TO	14+55	B-9-16 NORTH	165	165
UND	STRIBL	JTED		330	330
TEM TOTAL			·	3000	3000

MOBILIZ			
STATION TO STATION	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILAZIONS EMERGENCY EROSION CONTROL
		EACH	EACH
PROJECT LIMITS	8610-07-73	4	2
ITEM TOTAL		4	2

	624.0100			
STATION	TO	STATION	LOCATION	MGAL
17+32	то	23+03	APPROACHES	9
ITEM TOTAL				9

628.2004	ASS I TYPE B	SION MAT CL	ER0			
SY	LOCATION	STATION	TO	STATION		
1140	B-9-124 SOUTH	19+60	ТО	17+32		
690	B-9-124 NORTH	23+03	ТО	20+40		
925	B-9-125 SOUTH	49+65	TO	47+39		
730	B-9-125 NORTH	52+62	TO	50+34		
690	B-9-126 SOUTH	69+05	TO	66+85		
620	B-9-126 NORTH	71+60	TO	69+60		
480	B-9-16 SOUTH	12+34	TO	10+10		
185	B-9-16 NORTH	23+03	ТО	13+02		
540		UNDISTRIBUTED				
6000		ITEM TOTAL				

	Т	DITCH CHECKS	628.7504	
STATION	ТО	STATION	LOCATION	LF
17+02	ТО	23+35	B-9-124 APPROACHES	75
47+08	TO	52+92	B-9-125 APPROACHES	45
66+55	TO	72+30	B-9-126 APPROACHES	120
9+48	TO	16+50	B-9-16 APPROACHES	45
UNDI	STRIBI	JTED		75
ITEM TOTAL				360

CULVERT P	CULVERT PIPE CHECKS							
STATION TO STATION	LOCATION	EACH						
21+20 LT	PE	3						
14+85 LT	PE	3						
ITEM TOTAL		6						

	642.5001							
STATION	STATION TO STATION LOCATION							
PRO.	JECT L	IMITS	8610-07-73	1				
ITEM TOTAL				1				

					PER	MANENT S	SIGNING					
SIGN			SIGN	SIGN	WIDTH	HEIGHT	637.2210 SIGNS, TYPE II,	634.0612 WOOD POSTS, 4X6-INCH X 12 FT	634.0616 WOOD POSTS, 4X6-INCH X 16 FT	634.0618 WOOD POSTS, 4X6-INCH X 18 FT	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS
NUMBER	STATION	LOCATION	CODE	DESCRIPTION	(INCHES)	(INCHES)						
							SF	EACH	EACH	EACH	EACH	EACH
1 - 1	18+07	LT	R2-1	SPEED LIMIT	30	24	5.00		1		1	1
1 - 2	18+13	RT	R2-1	SPEED LIMIT	30	24	5.00		1		1	1
1 - 3	19+50	RT	13-1	O'NEIL CREEK	36	24	6.00		1	1	1	2
1 - 4	19+57	LT		CLEARANCE STRIPER DOWN LEFT							1	1
1 - 5	19+57	RT		CLEARANCE STRIPER DOWN RIGHT							1	1
1 - 6	20+40	LT		CLEARANCE STRIPER DOWN RIGHT							1	1
1 - 7	20+40	RT		CLEARANCE STRIPER DOWN LEFT						-	1	1
1 - 8	20+50	LT	I3-1	O'NEIL CREEK	36	24	6.00		1	1	1	2
2 - 1	49+55	LT	W14-3	NO PASSING ZONE			6.00		1		1	1
2 - 2	49+56	RT	13-1	O'NEIL CREEK	36	24	6.00		1	1	1	2
2 - 3	49+65	LT		CLEARANCE STRIPER DOWN LEFT							1	1
2 - 4	49+65	RT		CLEARANCE STRIPER DOWN RIGHT							1	1
2 - 5	50+35	LT		CLEARANCE STRIPER DOWN RIGHT							1	1
2 - 6	50+35	RT		CLEARANCE STRIPER DOWN LEFT							1	1
2 - 7	50+50	LT	13-1	O'NEIL CREEK	36	24	6.00		1	1	1	2
3 - 1	68+90	LT	13-1	O'NEIL CREEK	36	24	6.00		1	1		
3 - 2	68+98	LT		CLEARANCE STRIPER DOWN LEFT							1	1
3 - 3	69+10	RT		CLEARANCE STRIPER DOWN RIGHT							1	1
3 - 4	69+55	LT		CLEARANCE STRIPER DOWN RIGHT							1	1
3 - 5	69+57	LT	13-1	O'NEIL CREEK	36	24	6.00		1	1	1	2
3 - 6	69+67	RT		CLEARANCE STRIPER DOWN LEFT							1	1
4 - 1	12+15	LT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12	36	3.00	1			1	1
4 - 2	12+29	RT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12	36	3.00	1			1	1
4 - 3	12+34	RT	13-1	O'NEIL CREEK	36	24	6.00		1	1	1	1
4 - 4	13+05	LT	13-1	O'NEIL CREEK	36	24	6.00		1	1	1	1
4 - 5	13+06	LT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12	36	3.00	1				
4 - 6	13+20	RT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12	36	3.00	1				
in	TEM TOTAL	•					76.00	4	11	8	24	29

PROJECT NO:8610-07-73 HWY:STH 124 COUNTY:CHIPPEWA MISCELLANEOUS QUANTITIES SHEET **E**

	TRAFFIC CONTROL ITEMS											
	LOCATION	603.8000 CONCRETE BARRIER	603.8125 CONCRETE BARRIER	643.0300 TRAFFIC CONTROL	643.0420 TRAFFIC CONTROL	643.0705 TRAFFIC CONTROL	643.0715 TRAFFIC CONTROL	643.0900 TRAFFIC CONTROL	643.0920 TRAFFIC CONTROL		643.5000 TRAFFIC	661.0100 TEMPORARY TRAFFIC
		TEMPORARY PRECAST DELIVERED	TEMPORARY PRECAST INSTALLED	DRUMS	BARRICADES TYPE III	WARNING LIGHTS TYPE A	WARNING LIGHTS TYPE C	SIGNS	COVERIN TYP	: 11		SIGNAL FOR BRIDGES (STRUCTURE) B-9-16
		LF	LF	DAY	DAY	DAY	DAY	DAY	COUNT CY	EACH	I EACH	LS
PROJECT	SEE TRAFFIC CONTROL SHEETS	-	-	-	-	-	-	-		-	1	-
STH 124 DETOUR	SEE TRAFFIC CONTROL SHEETS	-	-	0	1800	2250	-	23250		-	-	-
STH 64	SEE TRAFFIC CONTROL SHEETS	400	400	400	15	30	150	350	5 1	5	-	1
ITEM TOTAL		400	400	400	1815	2280	150	23600		5	1	1

	MARKING LINE EPOXY 4-INCH								
STATION	TO	STATION	LOCATION	LF					
17+32	ТО	23+03	B-9-124 APPROACHES	1280					
47+39	TO	52+62	B-9-125 APPROACHES	1300					
66+85	TO	71+60	B-9-126 APPROACHES	1900					
10+10	TO	15+26	B-9-16 APPROACHES	1155					
ITEM TOTAL				5635					

	M	MARKING REMOVA	AL LINE 4-INCH	646.9000
STATION	ТО	STATION	LOCATION	LF
9+80	то	11+20	STH 64	140
14+20	TO	15+60	STH 64	140
ITEM TOTAL				280

TE	EMPORARY	MARKING LINE	REMOVABLE TAPE 4-INCH	649.0150
STATION	ТО	STATION	LOCATION	LF
2+80	T0	9+80	STH 64	700
15+60	TO	22+60	STH 64	700
ITEM TOT	AL			1400

TEMPOR	ARY MA	RKING STOP	LINE REMOVABLE TAPE 18-INCH	649.0850
STATION	TO	STATION	LOCATION	LF
2+80	TO	9+80	STH 64	30
15+60	TO	22+60	STH 64	30
ITEM TOTAL				60

CONSTUCTION STAKING						
STATION	то	STATION	LOCATION	650.5000 CONSTRUCTION STAKING BASE	650.9910 CONSTRUCTION STAKING SUPPLIMENTAL CONTROL (8610-07-73) LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES
PROJECT LIMITS 86		8610-07-73	-	1	-	
17+32	TO	23+03	B-9-124	141	-	489
47+39	TO	52+62	B-9-125	193	-	454
66+85	TO	71+60	B-9-126	270	-	420
10+10	TO	15+26	B-9-16	113	-	444
ITEM TOTA	L			717	1	1807

CONSTRUCTION STAKING STRU	CTURE LAYOUT (STRUCTURE)	650.6500	
STATION TO STATION	STRUCTURE	EACH	CATEGORY
20+00	01. B-9-124	1	020
50+00	02. B-9-125	1	030
69+32.5	03. B-9-126	1	040
ITEM TOTAL		3	

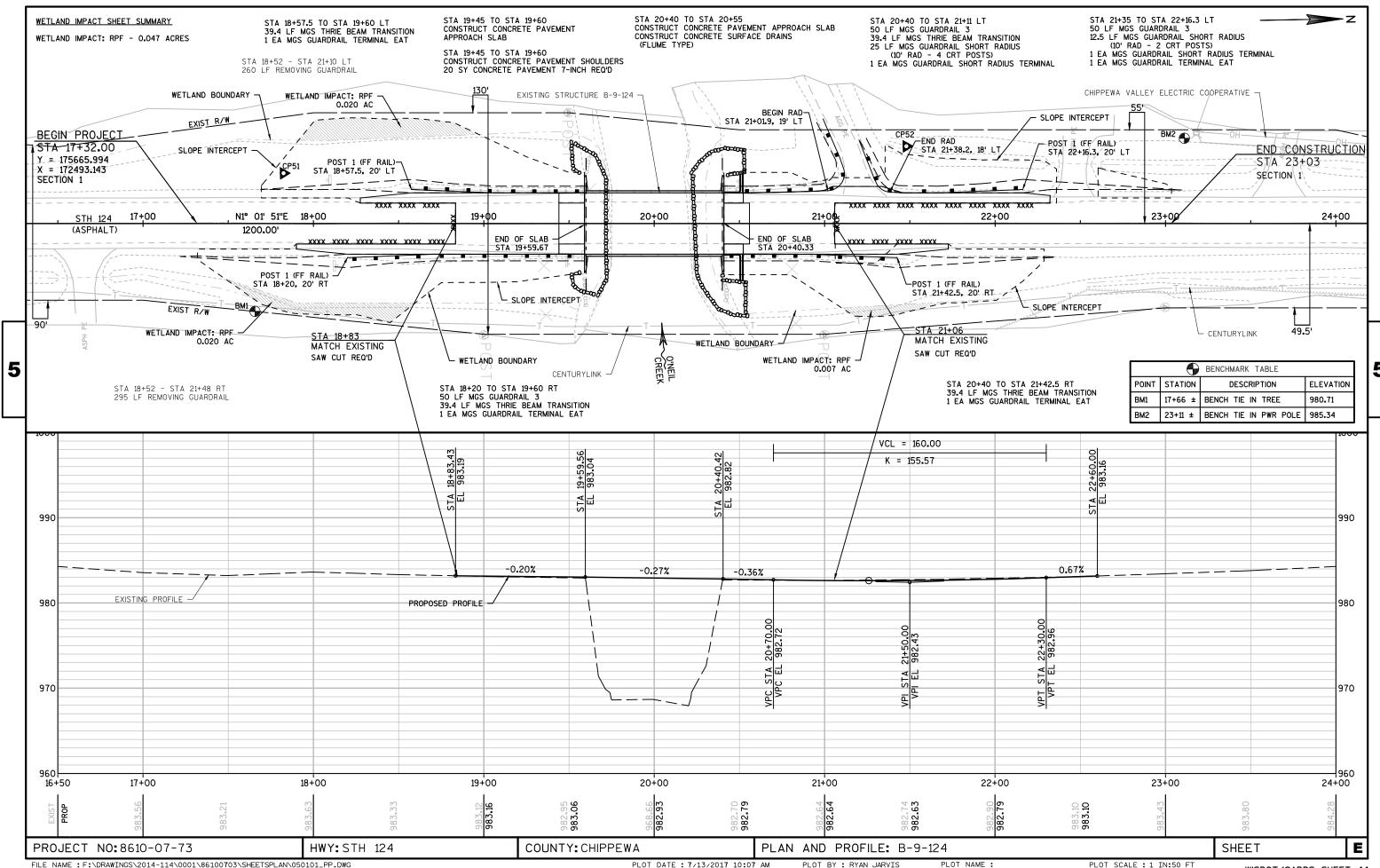
		SAWING	ASPHALT	690.0150
STATION	TO	STATION	LOCATION	LF
17+90	то	22+60	B-9-124 APPROACHES	405
47+97	TO	52+04	B-9-125 APPROACHES	210
67+43	TO	71+20	B-9-126 APPROACHES	130
10+58	TO	15+42	B-9-16 APPROACHES	485
ITEM TOTAL				1230

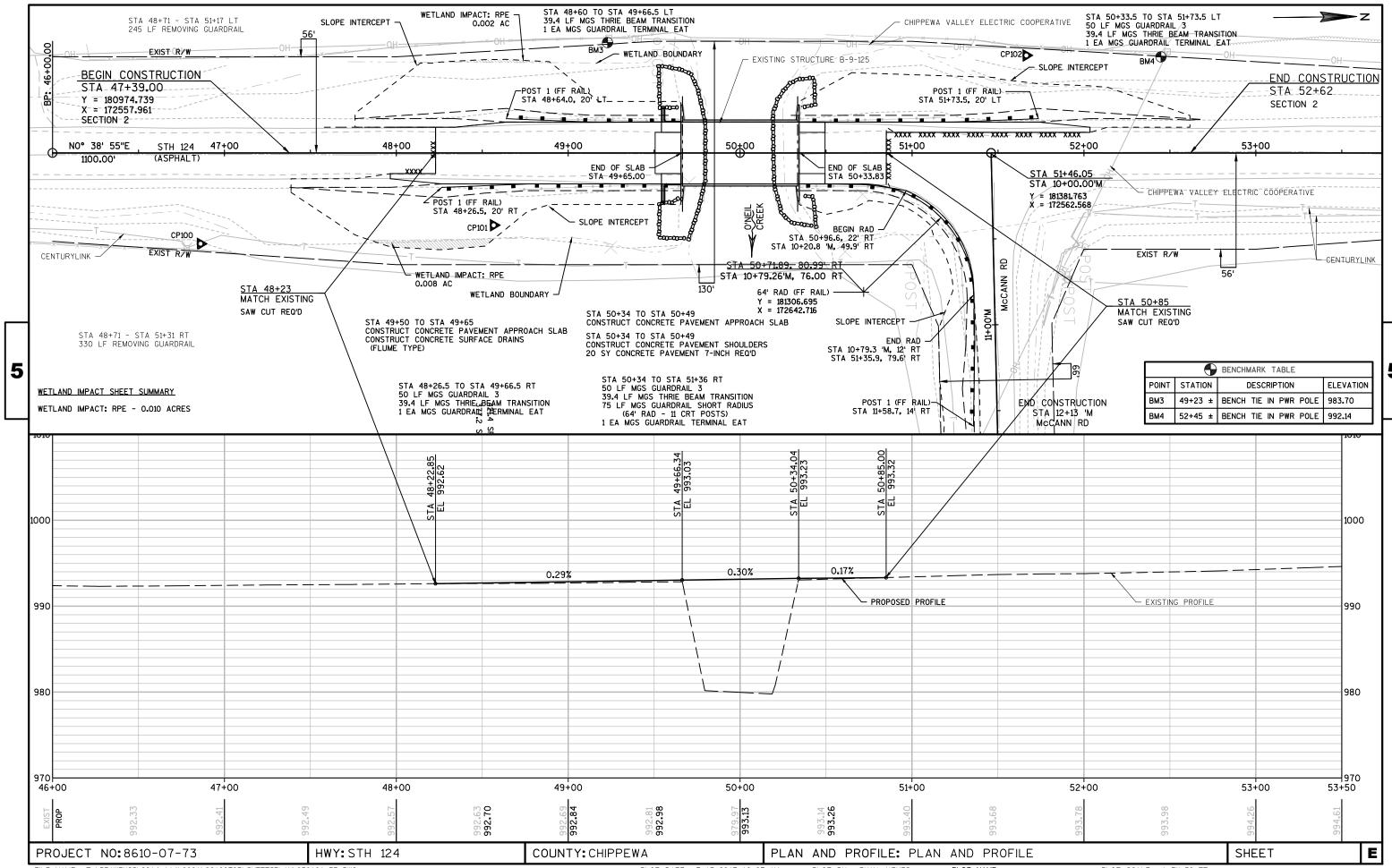
PROJECT NO:8610-07-73 HWY:STH 124 COUNTY:CHIPPEWA MISCELLANEOUS QUANTITIES

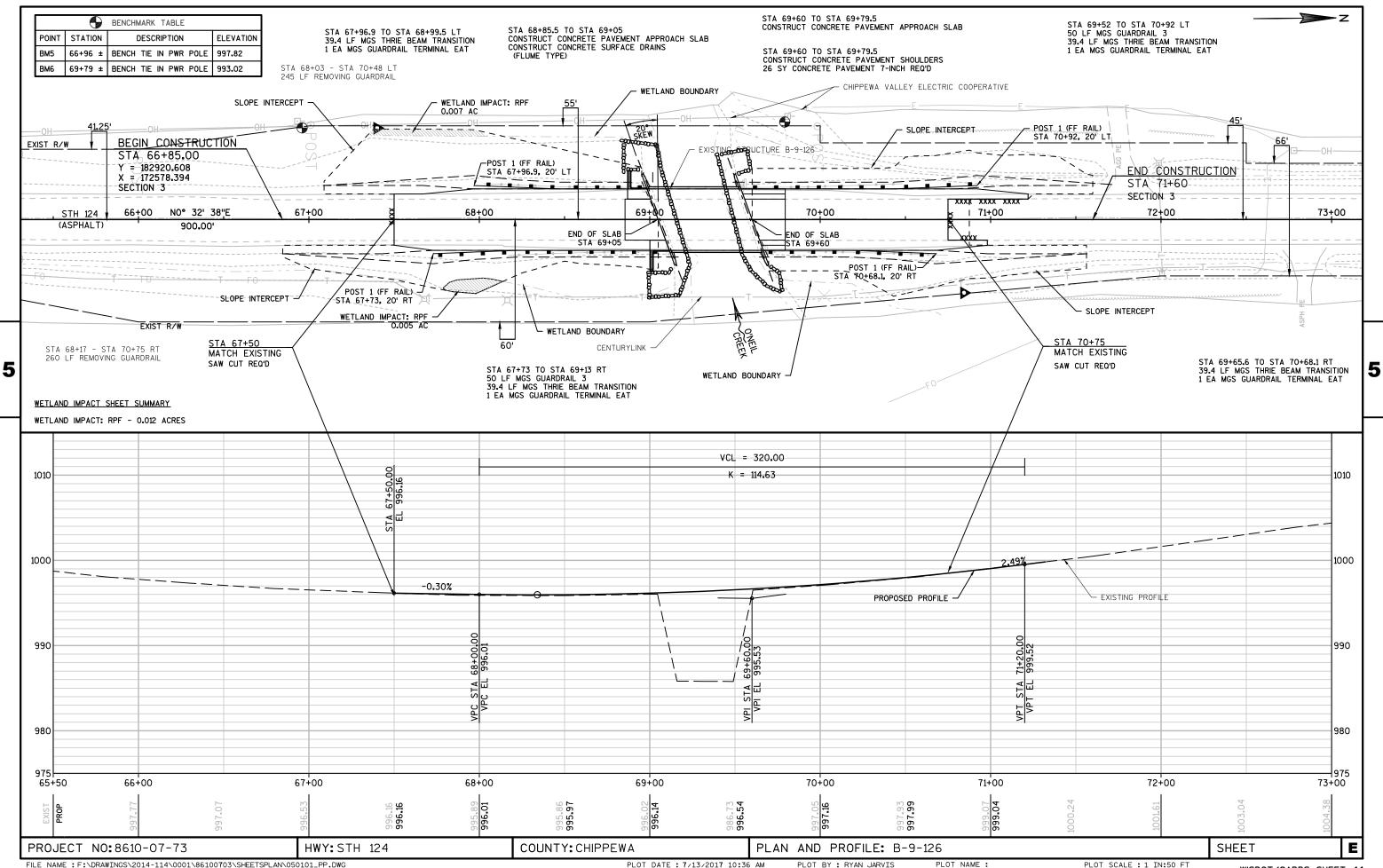
PLOT DATE: 9/13/2017 9:31 AM PLOT BY: MATT GUNDRY PLOT NAME:

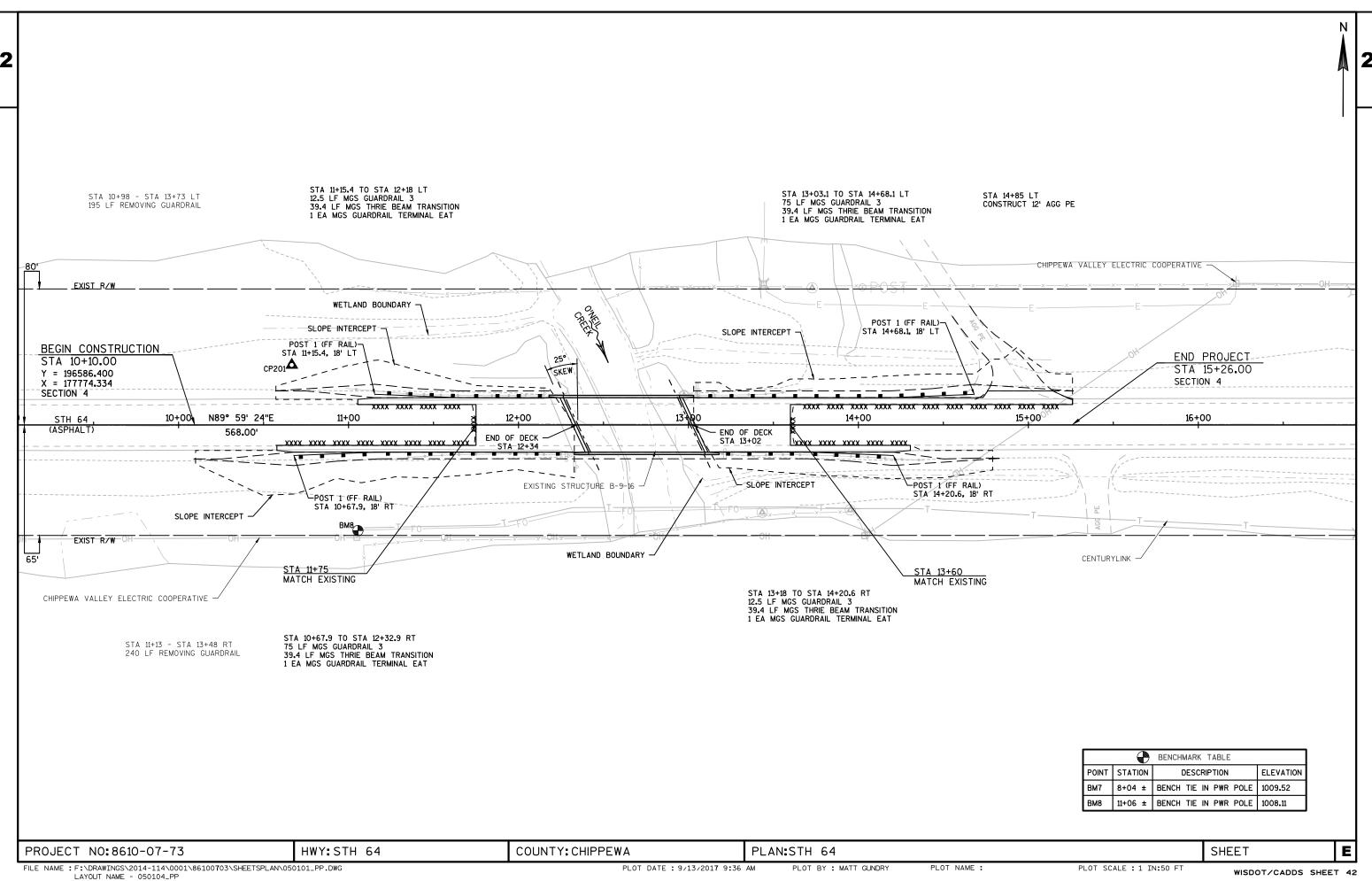
SHEET

Ε



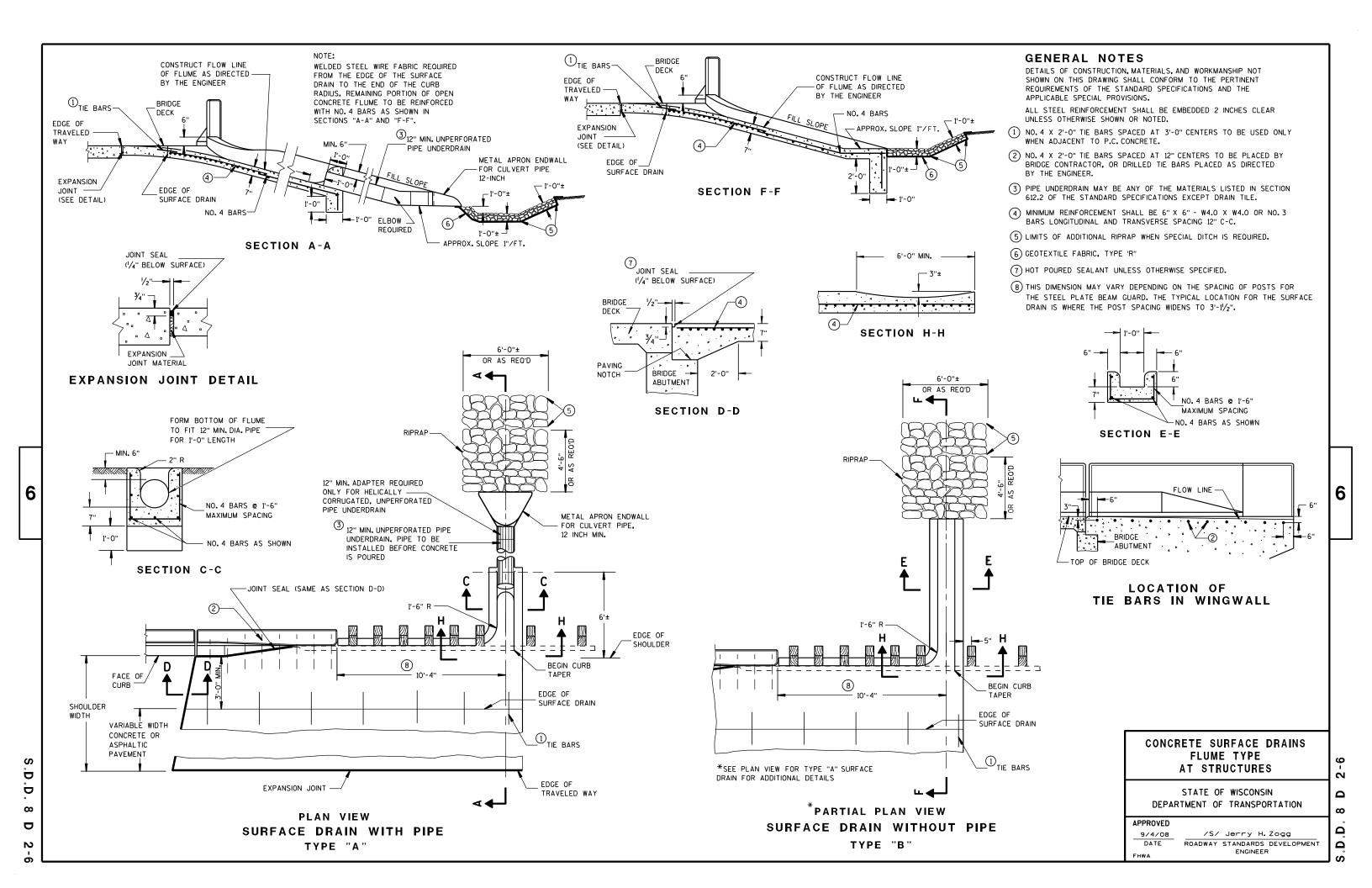






Standard Detail Drawing List

08D02-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
09G02-04A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-04B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-04C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15006-08	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15D33-04	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS



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

Ō Ö

 ∞ ∞ Ω

Δ

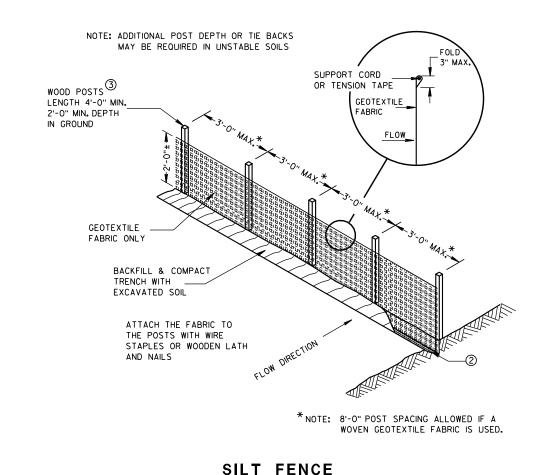
TYPICAL APPLICATION OF SILT FENCE

6

b

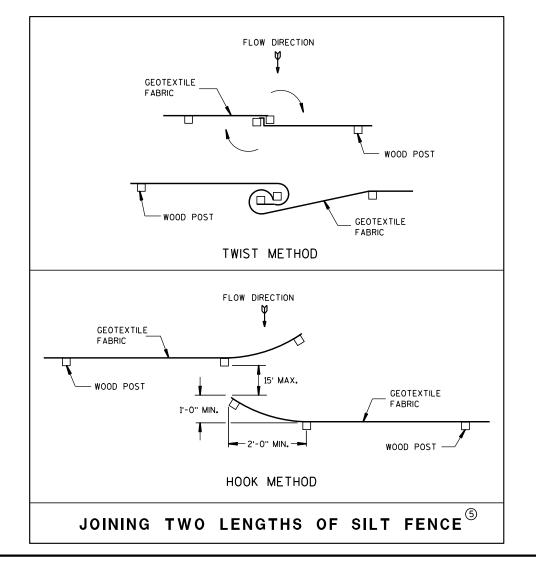
Ō

Ш



-ROADWAY -ROADWAY SHOULDER SHOULDER — DITCH DIKE INSLOPE INSLOPE (1) --≪ >→ **₹ ₹ INSLOPE** INSLOPE SHOULDER SHOULDER ROADWAY - ROADWAY SITUATION 2 SITUATION 1

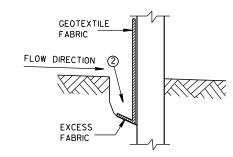
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

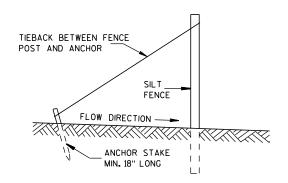
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- \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.



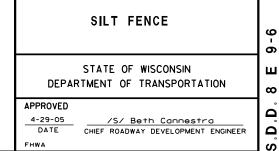
TRENCH DETAIL

6



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



6

Ū

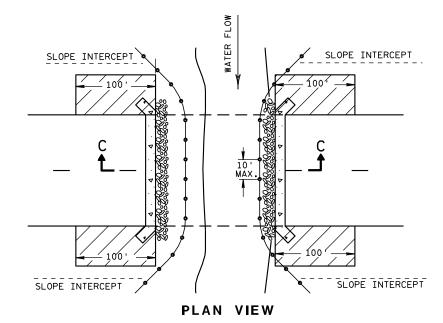
D

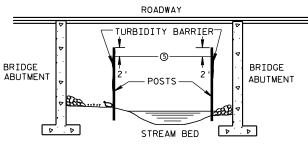
GENERAL NOTES

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- (2) SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

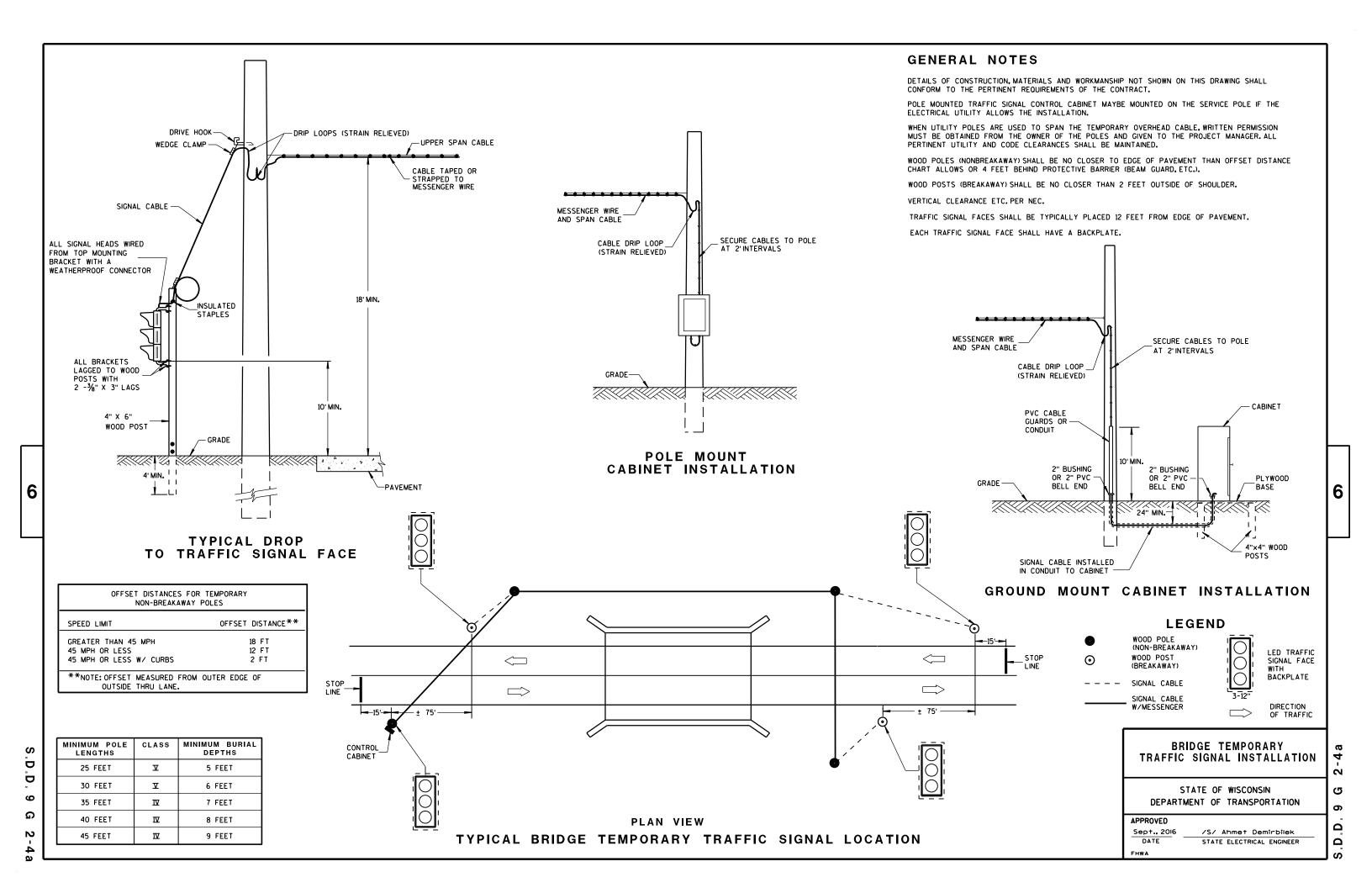
APPROVED

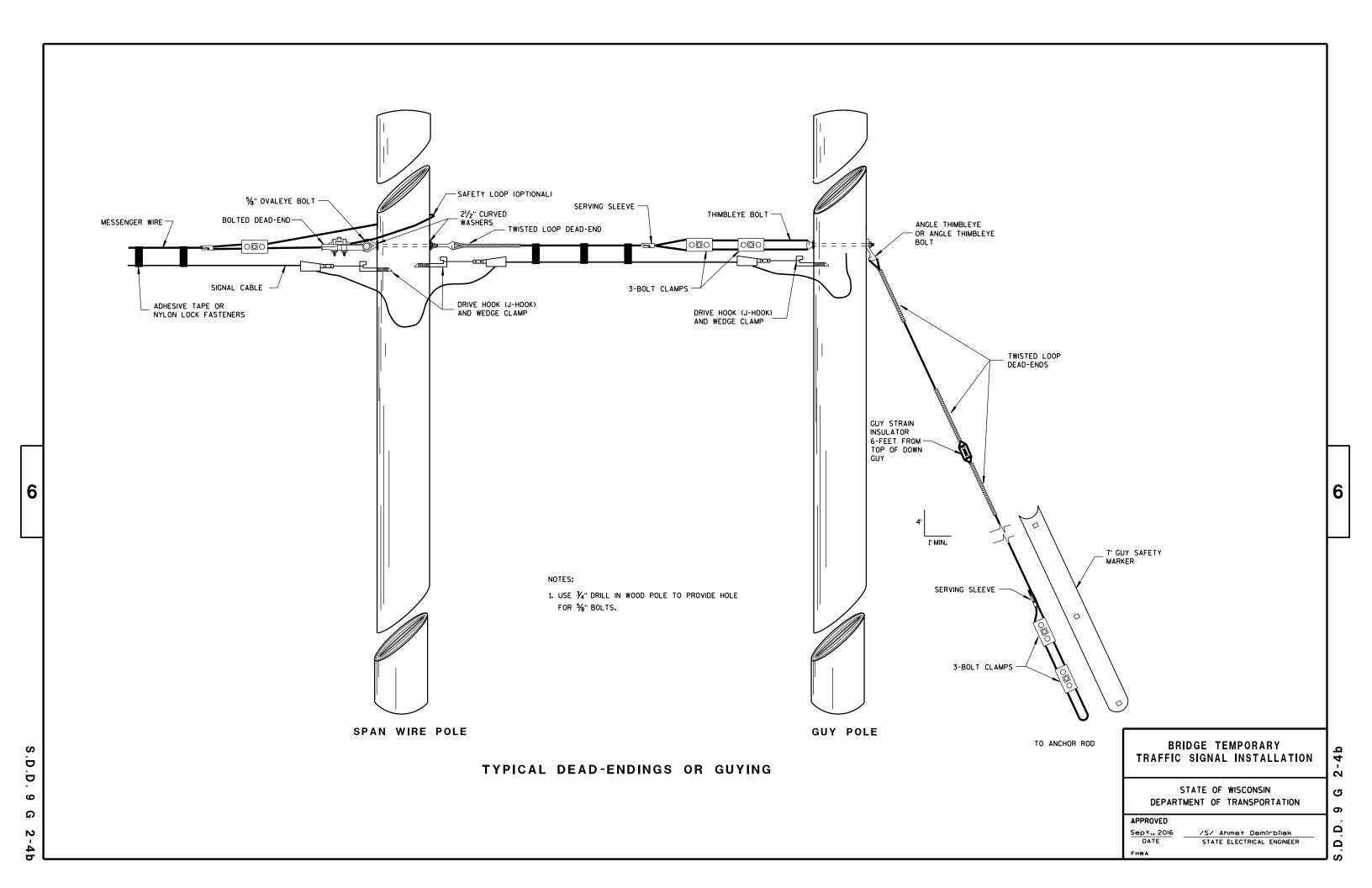
6/04/02
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

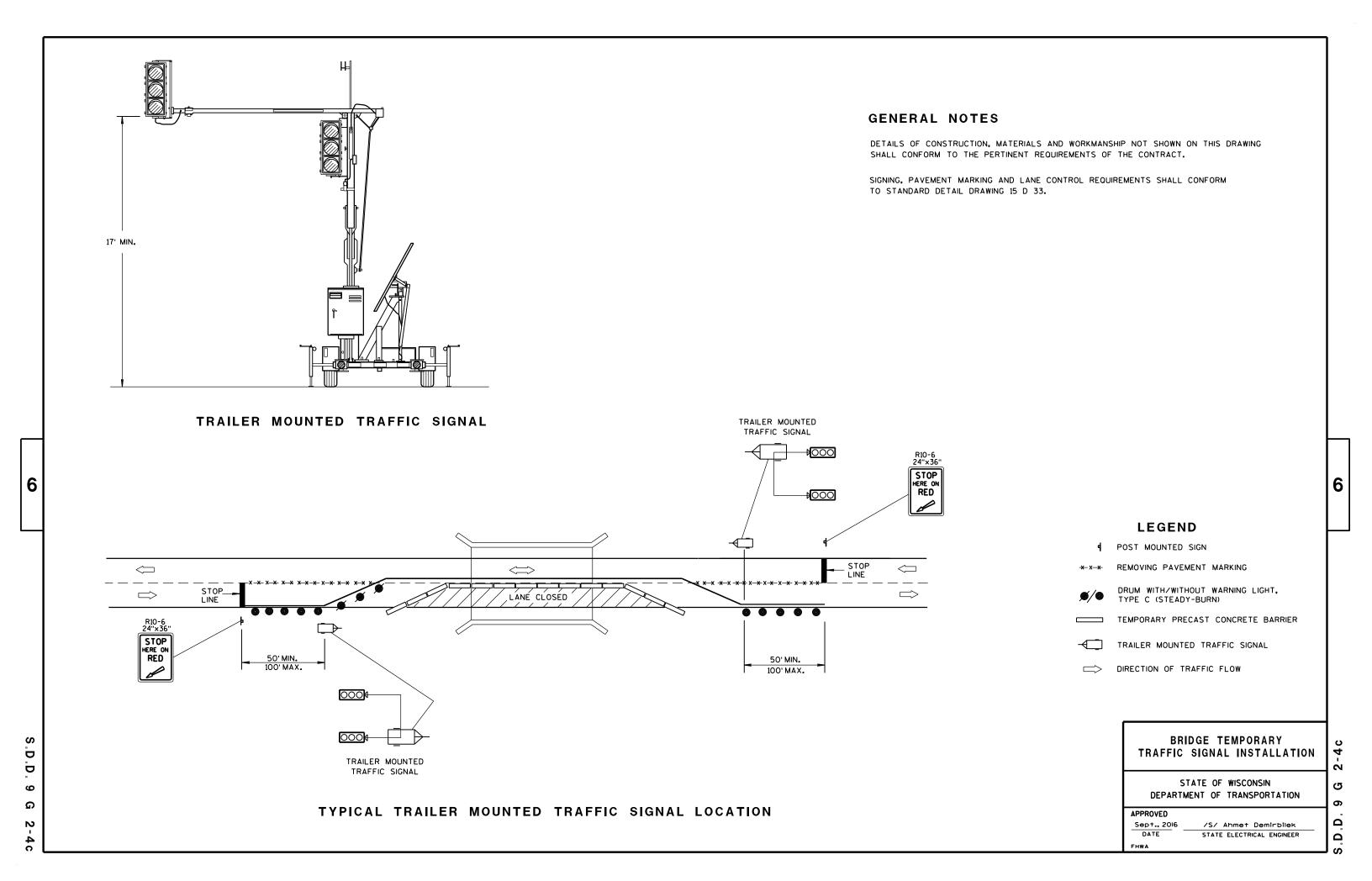
-2

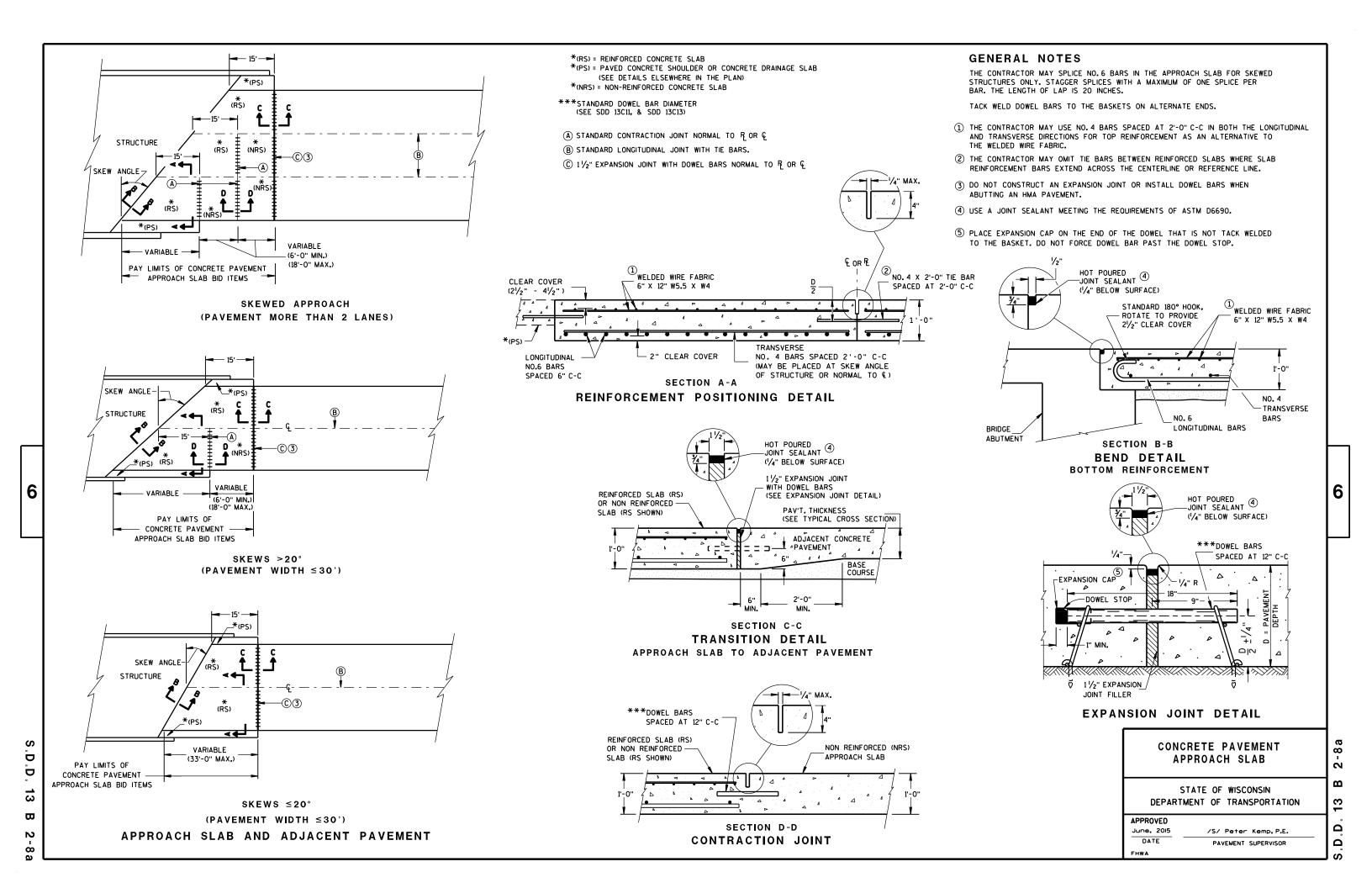
.D. 8 E 11

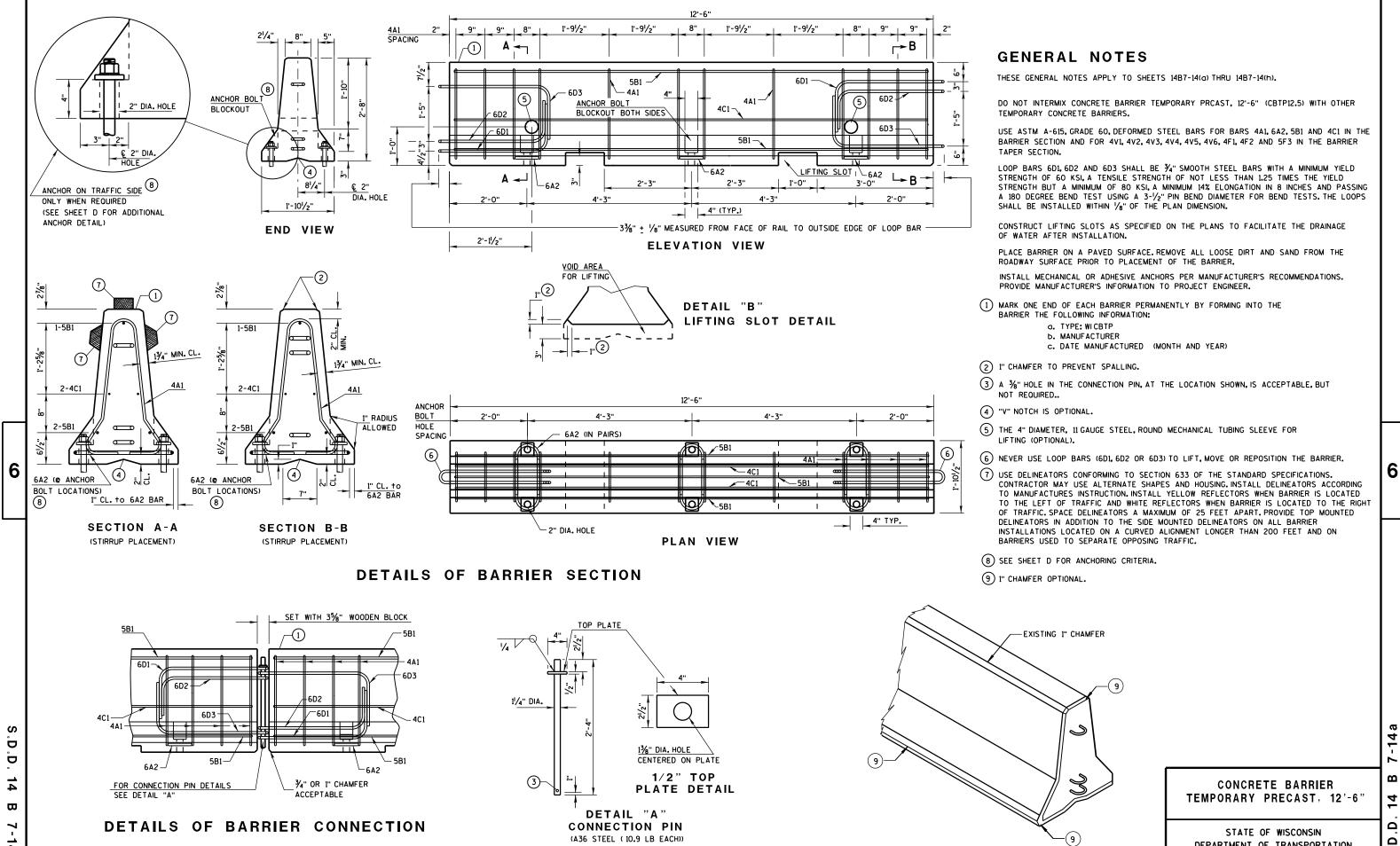
S.D.D



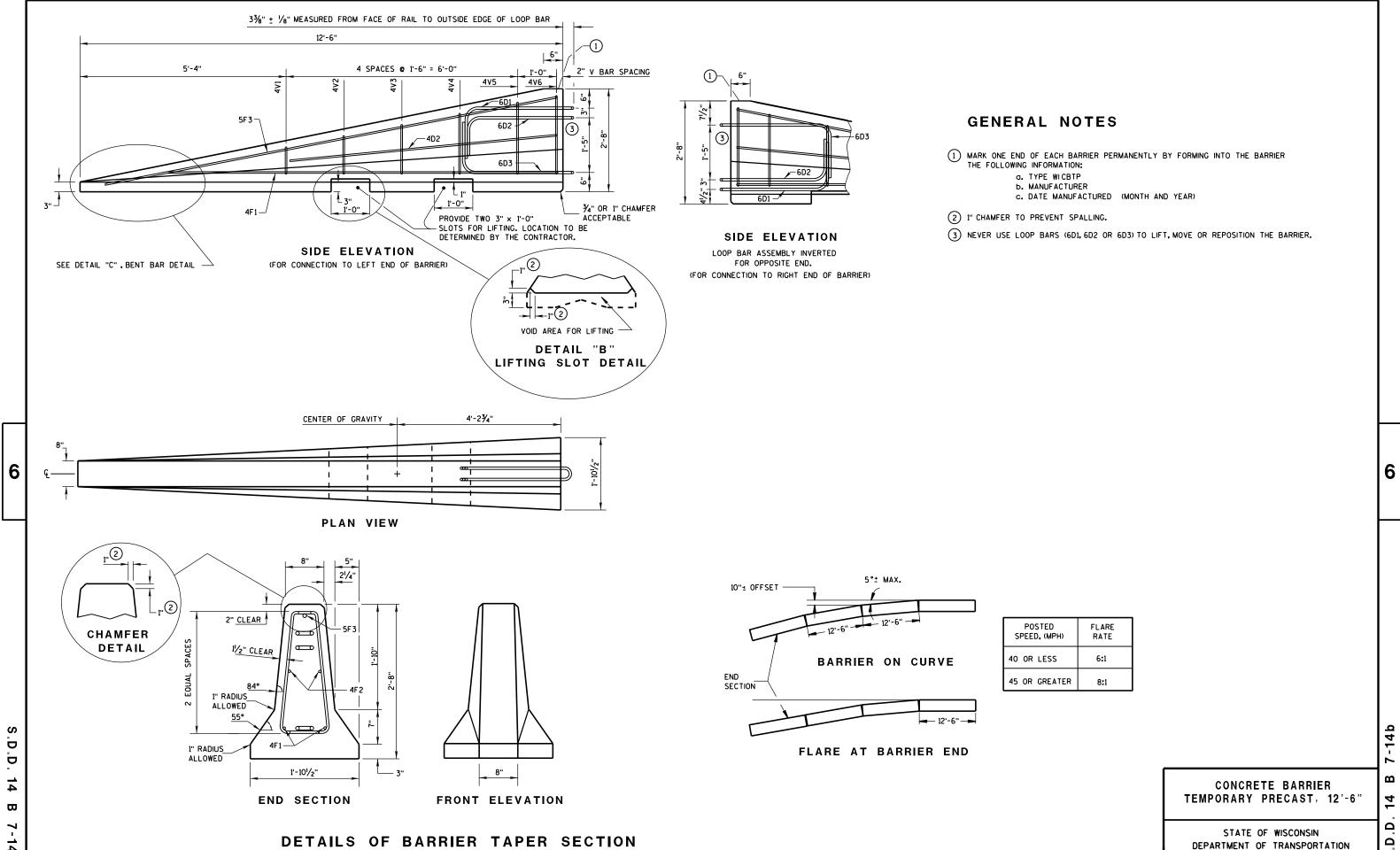








DEPARTMENT OF TRANSPORTATION



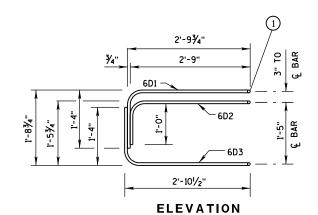
Ω

1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

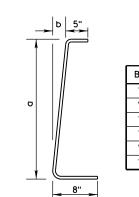
BARRIER TAPER SECTION BILL OF MATERIALS

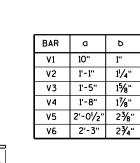
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TALEN SECTION			
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4٧3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"
		•	•



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

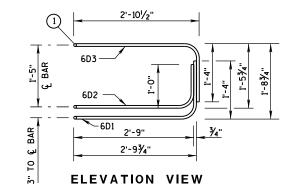
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

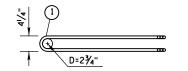
TAPER BARRIER SECTION

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

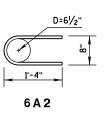
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	LOOP ASSEMBLY		
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

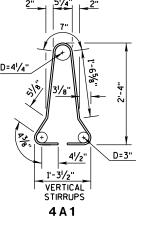




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)





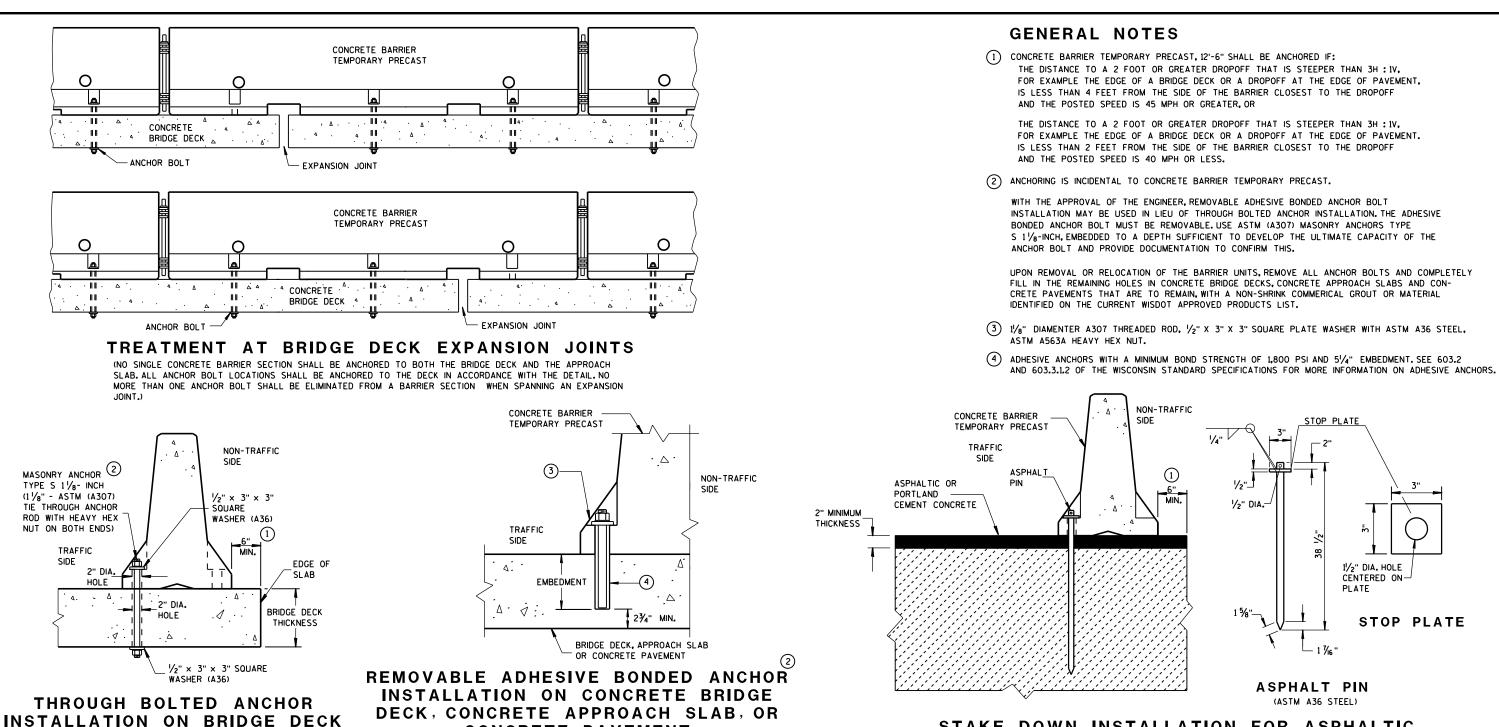
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

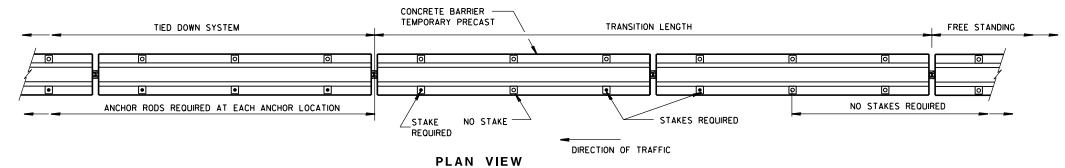
.D.D. 14 B 7-14c

6



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

6

D

 \Box

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

CENTERED ON-

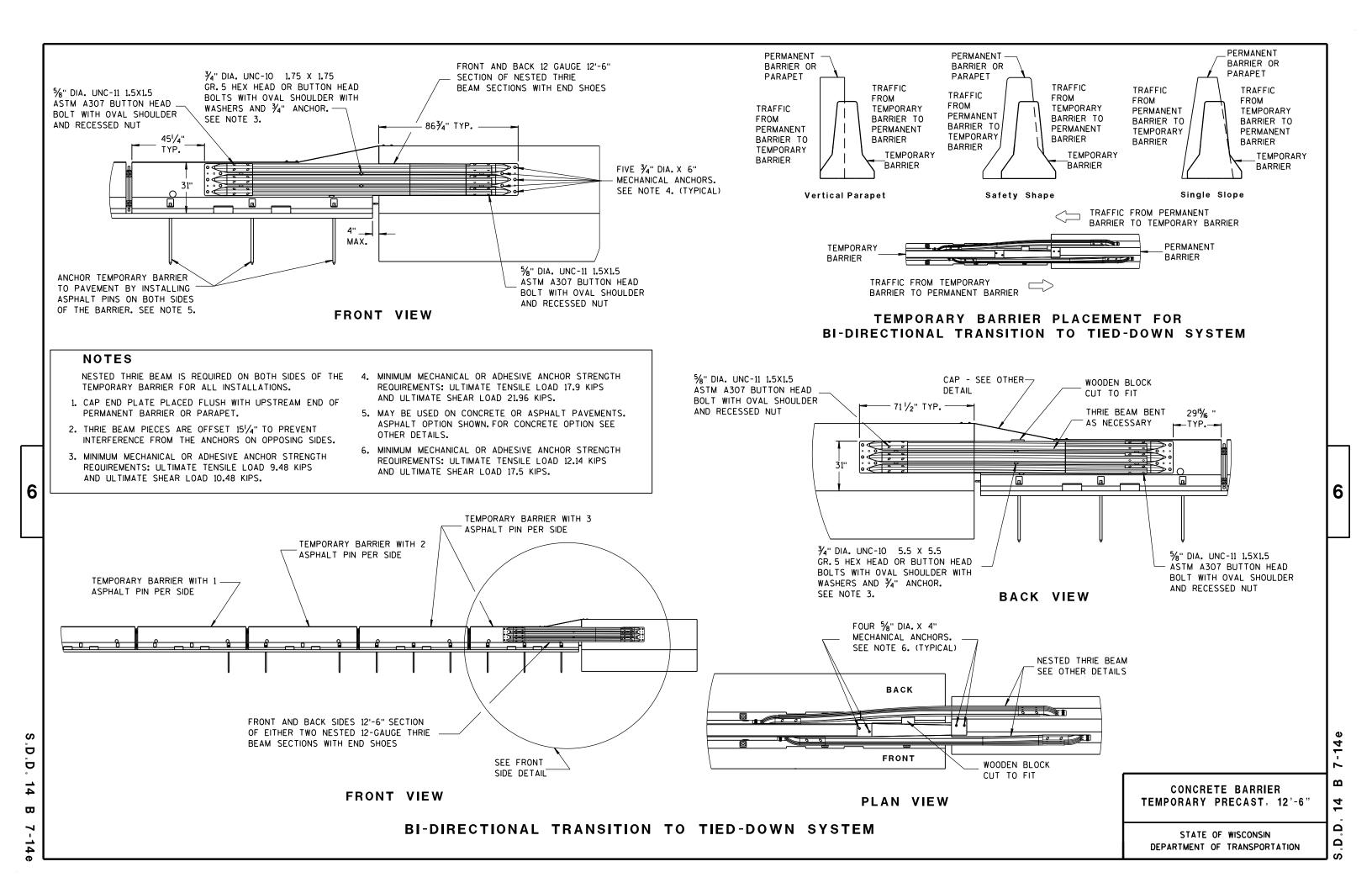
STOP PLATE

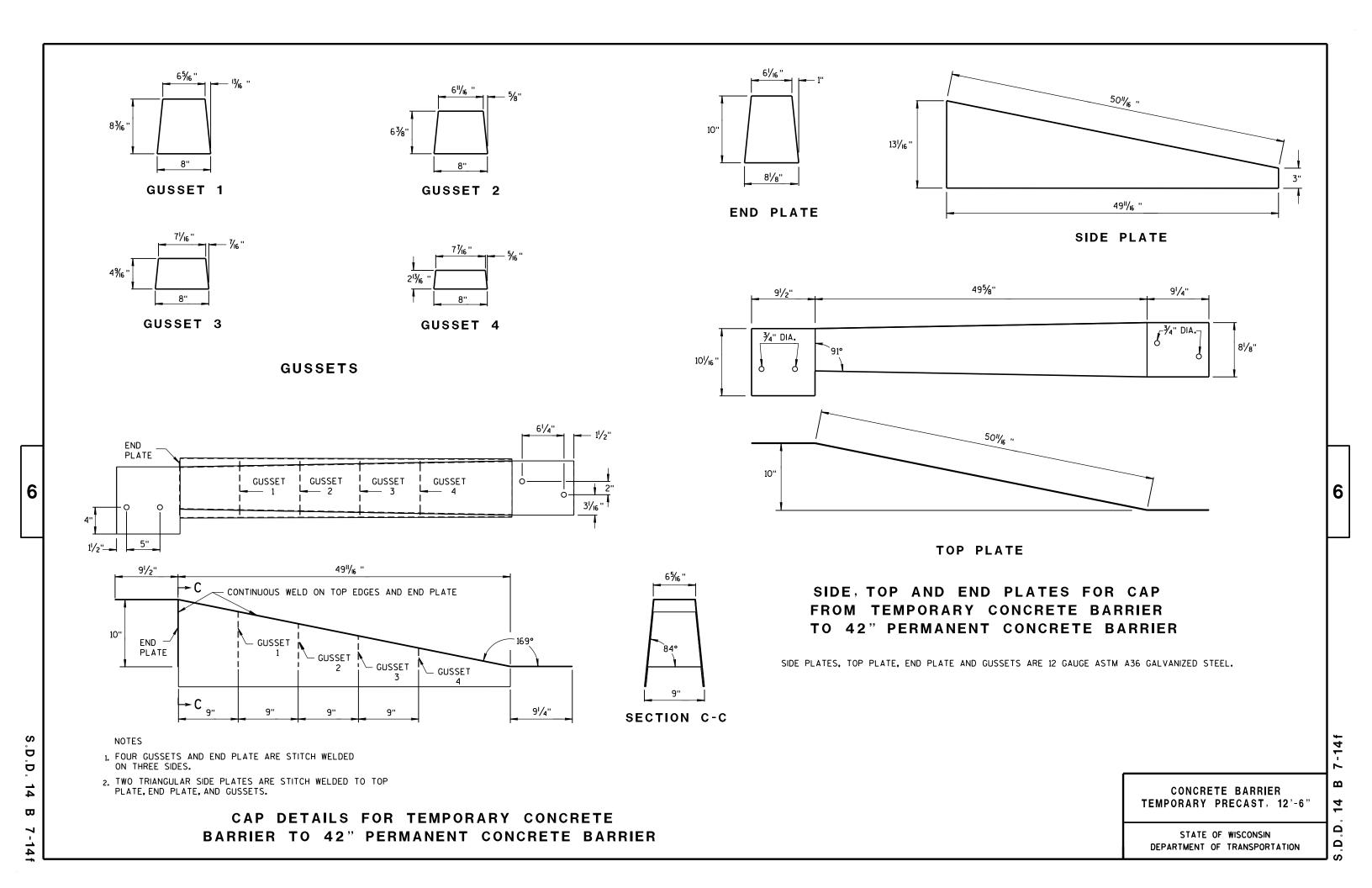
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

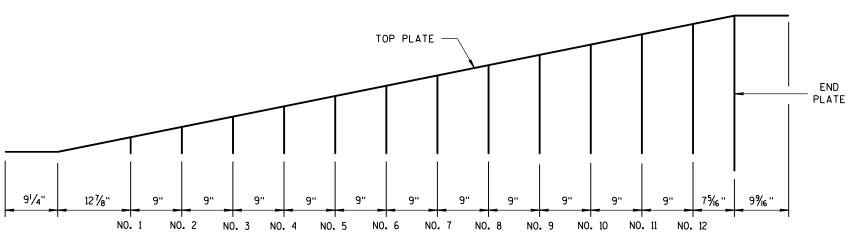
4 Δ Δ





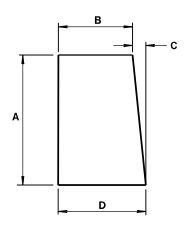
6

D Ď



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET No.	A	В	С	D
1	21/8"	73/4"	1/4"	8
2	4"/16 "	7% "	1/2"	8
3	61/2"	73/8"	11/16 "	81/16 "
4	85/16"	73/16"	7∕8"	8½ ₆ "
5	101/8"	7"	1 ½ ₆ "	81/16 "
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16"
7	13¾"	65%"	1 ½6"	81/16"
8	15% "	6¾6"	1 % "	81/16"
9	173/8"	61/4"	1 ¹³ / ₁₆ ''	8½6"
10	193/6"	6½ ₆ "	1 15/16 "	81/16 "
11	21"	57/8"	23/6"	8½ ₆ "
12	22 ¹³ / ₁₆ "	5"/16 "	25/6"	8½ ₆ "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

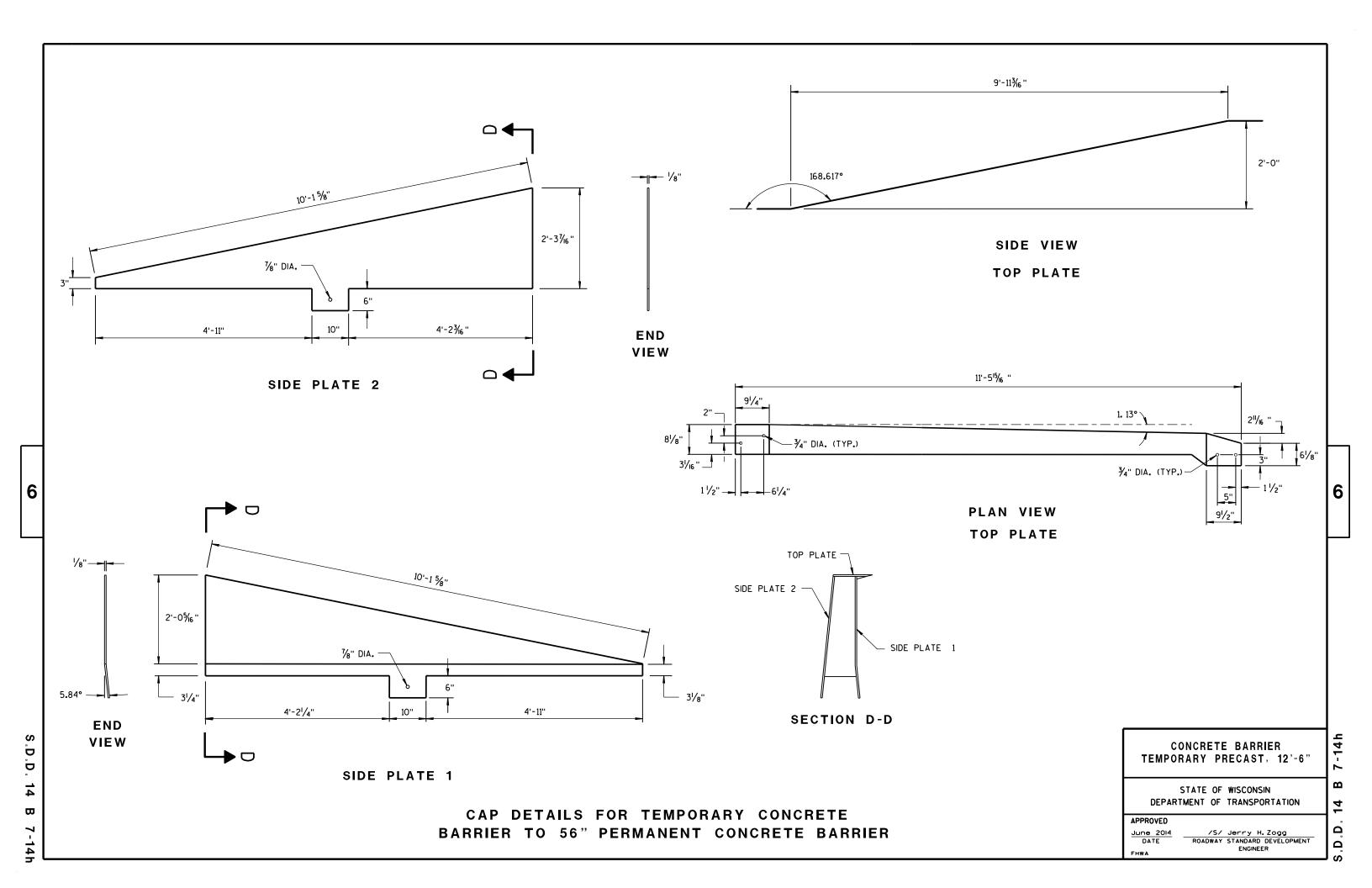
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

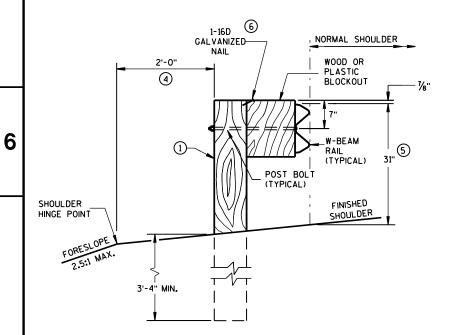
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Ω

Ω

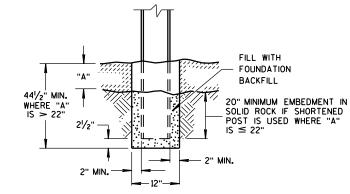


- 2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES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

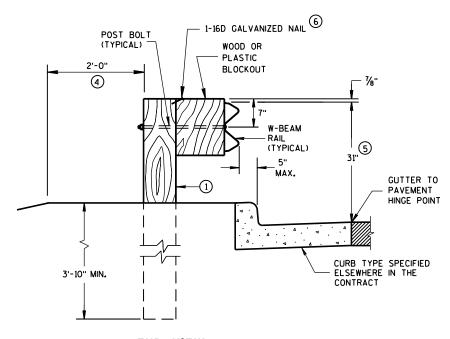


END VIEW

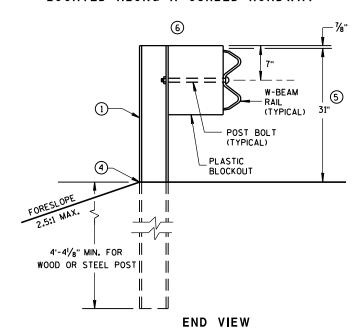
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



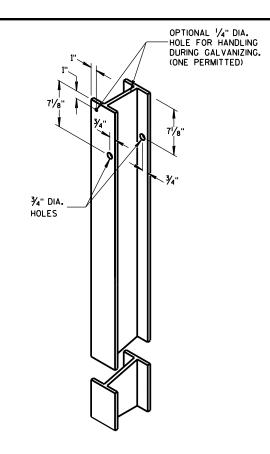
END VIEW SETTING STEEL OR WOOD POST IN ROCK 3



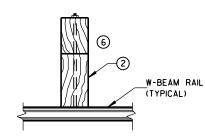
END VIEW LOCATED ALONG A CURBED ROADWAY



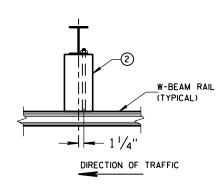
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



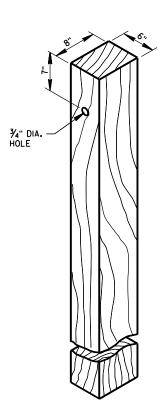
STEEL POST & HOLE PUNCHING DETAIL (w6X9)^①



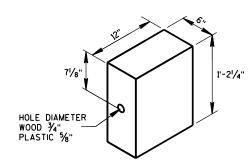
PLAN VIEW WOOD POST, **BLOCKOUT & BEAM**



PLAN VIEW STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

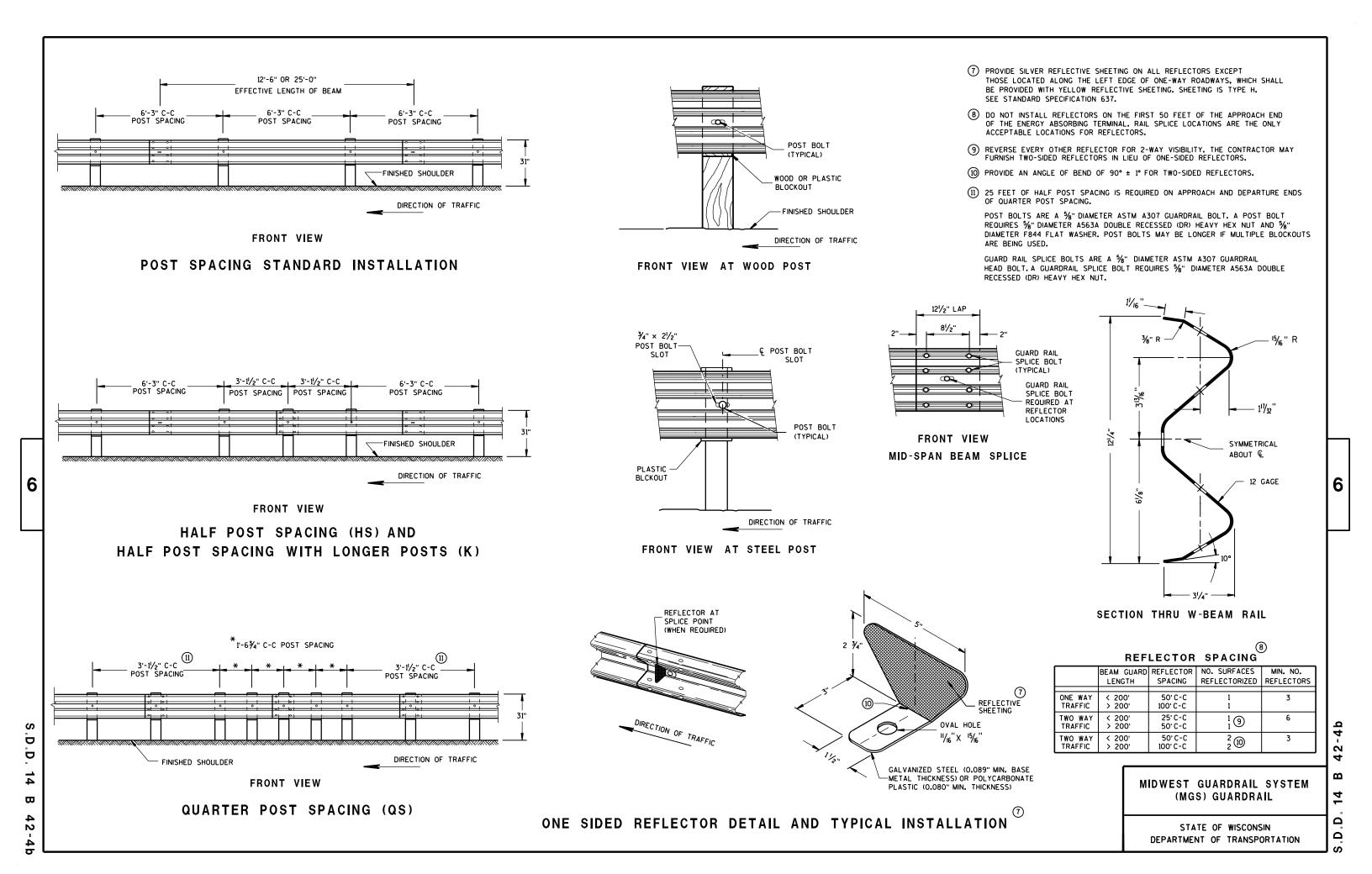
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

D D $\boldsymbol{\varpi}$

Ö

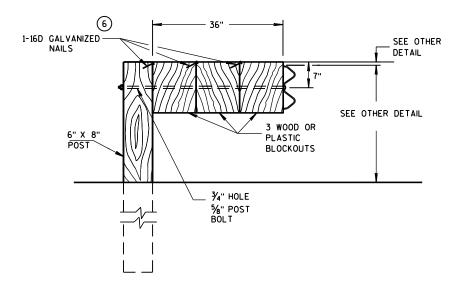
6

Ω Ω



DETAIL FOR 16" BLOCKOUT DEPTH

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

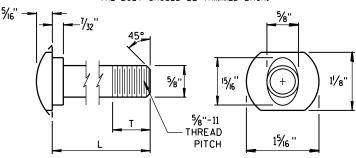


DETAIL FOR 36" BLOCKOUT DEPTH

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

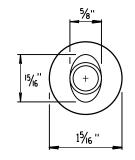
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

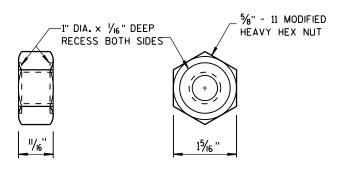


POST BOLT TABLE

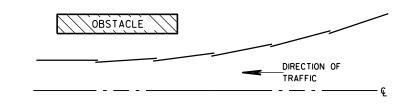
11/8"
-70
13/4"
4"
4½ ₆ "
4"
41/16"
4"



ALTERNATE BOLT HEAD

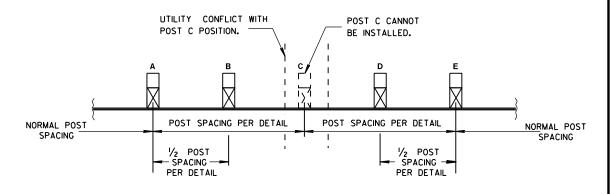


POST BOLT, SPLICE BOLT AND RECESS NUT

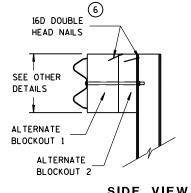


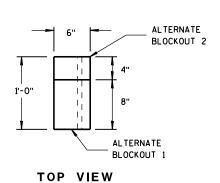
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

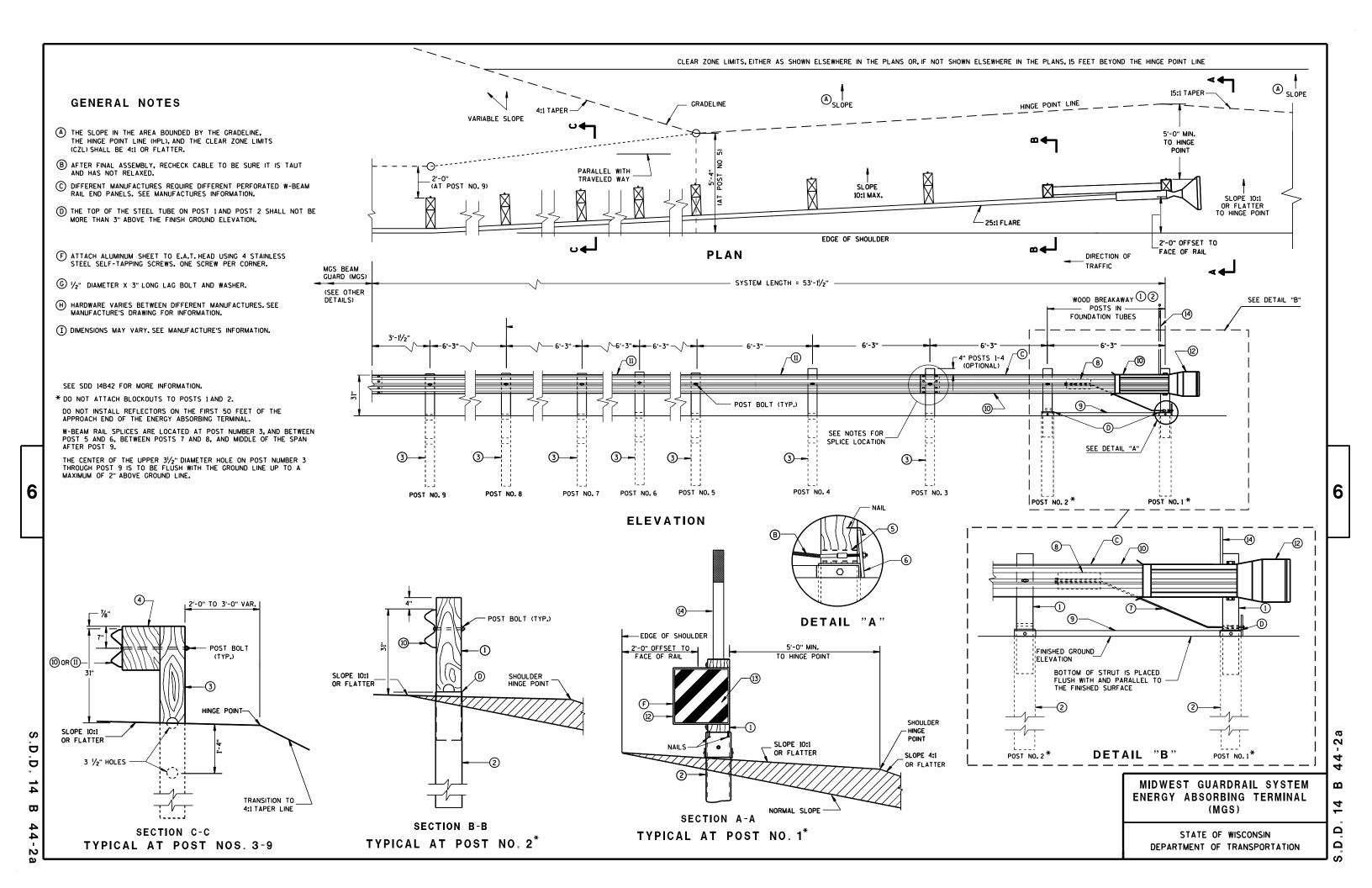
S b Ö ₩ 2

6

 $\mathbf{\omega}$

2

6



S.D.D.

₩

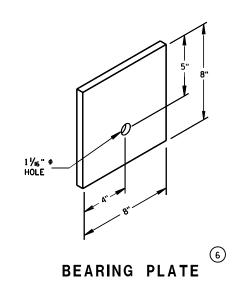
SECTION A-A SECTION B-B

9 H

PLAN VIEW

BILL OF MATERIALS

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

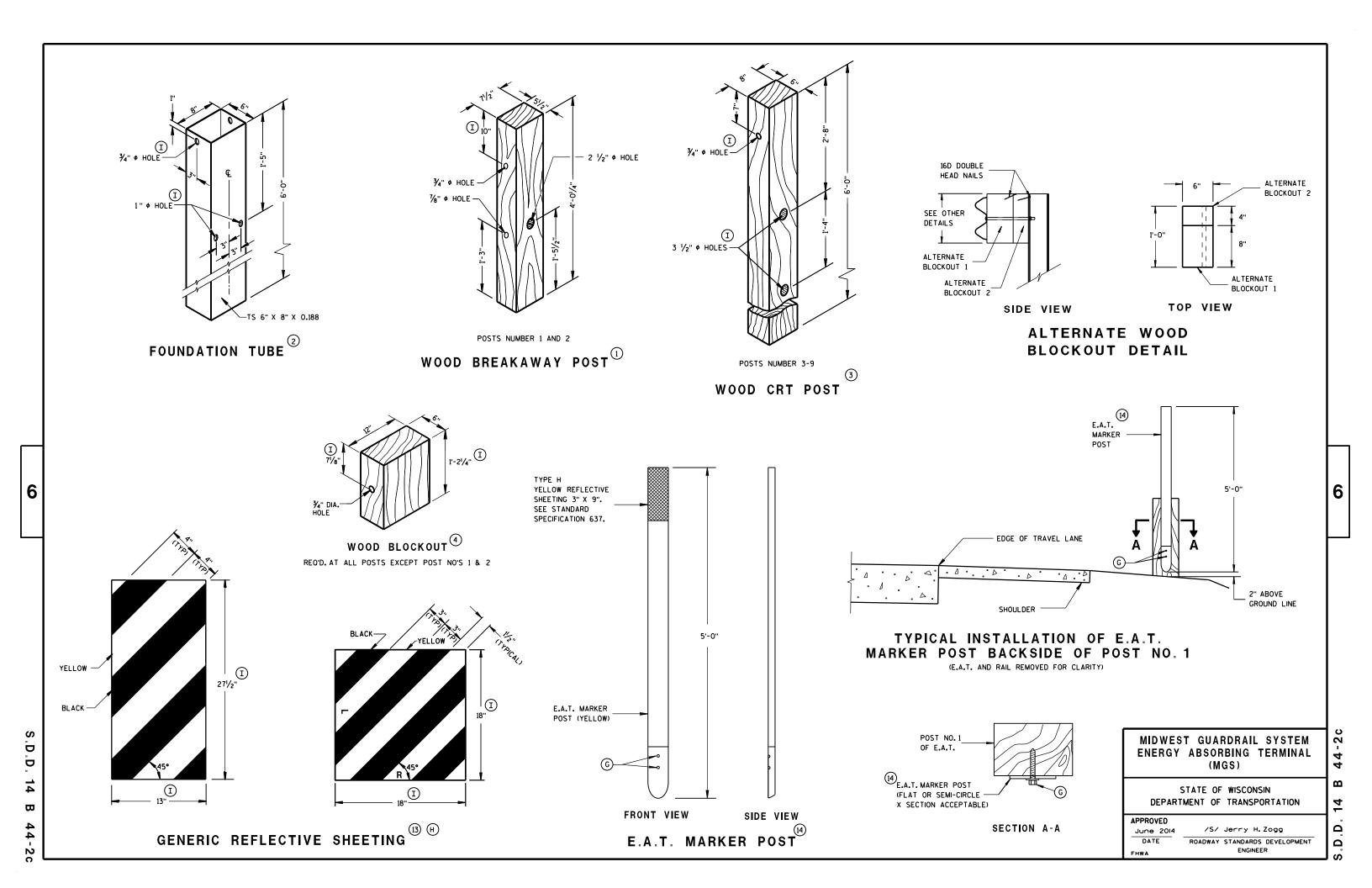


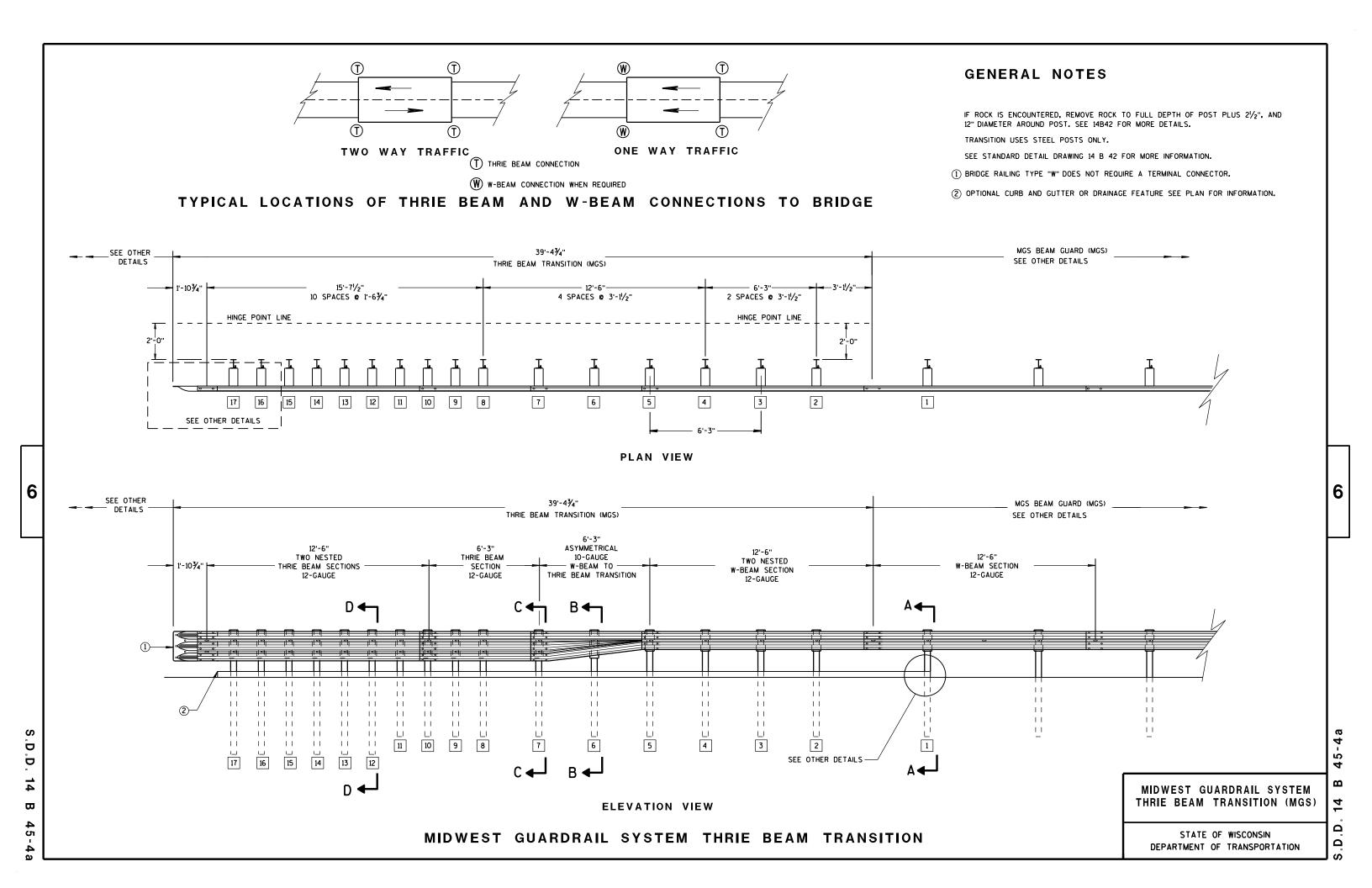
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

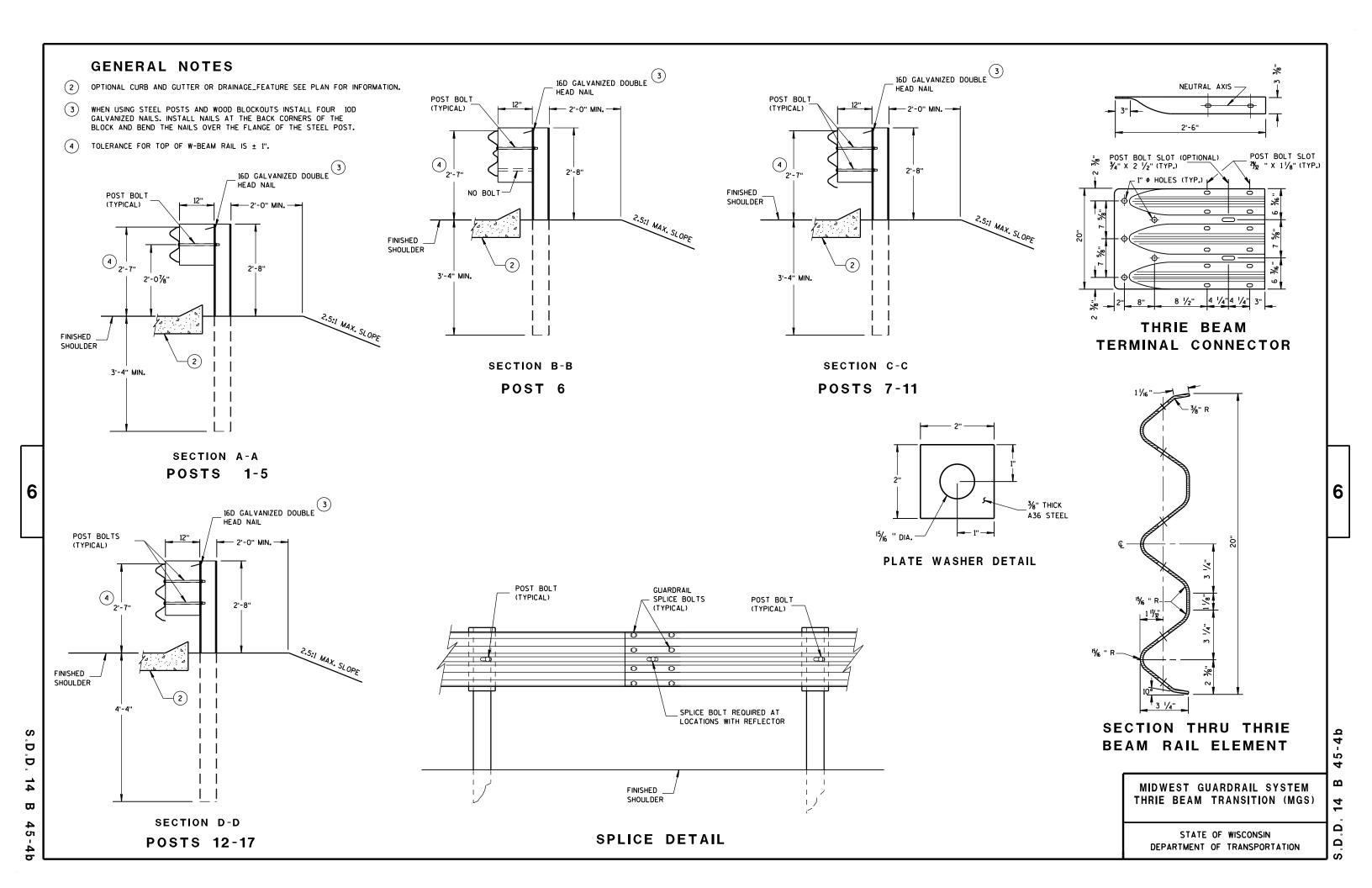
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

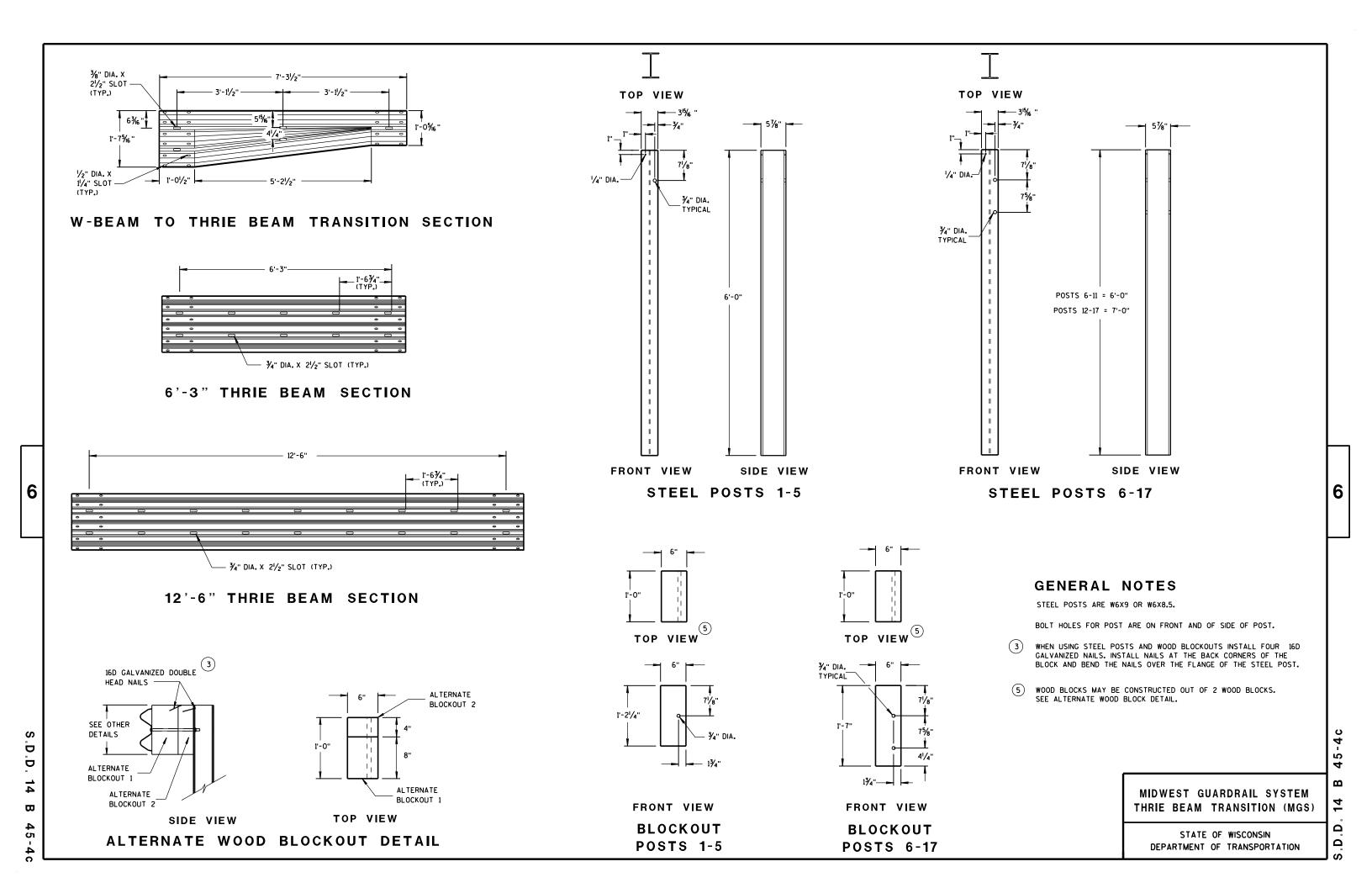
44-2b

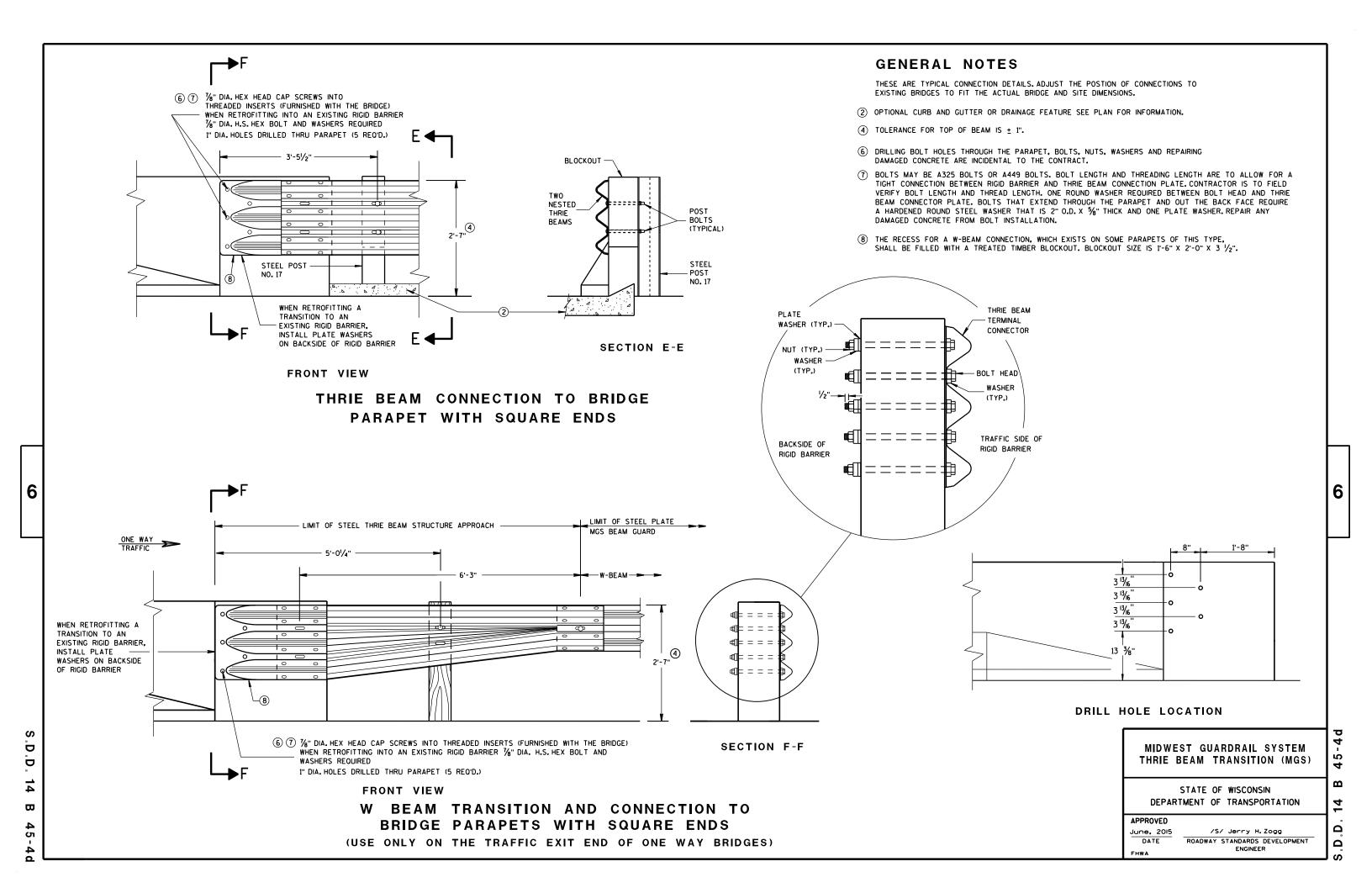
 $\mathbf{\omega}$ 14 ٠٠ ت

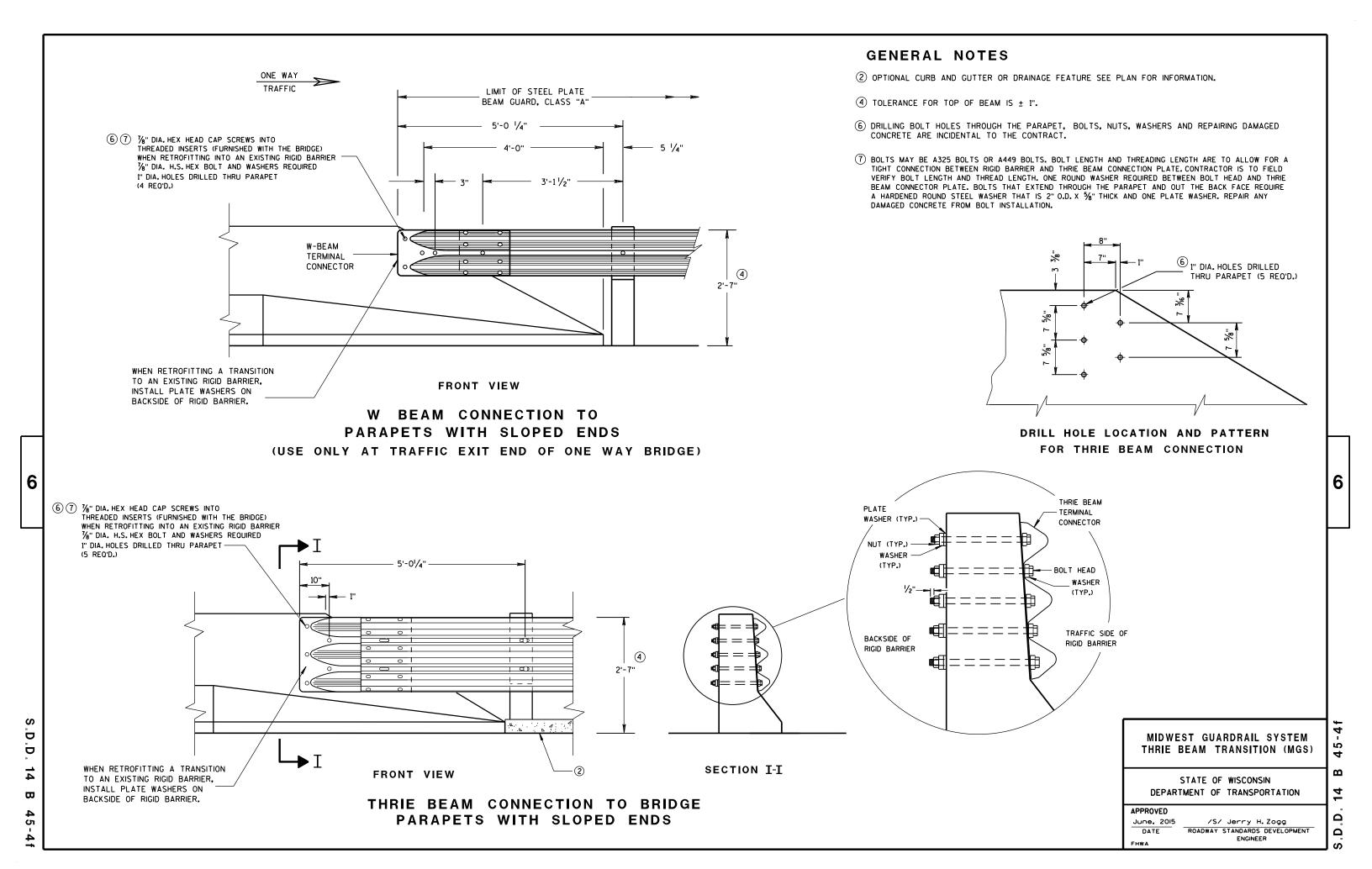














ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

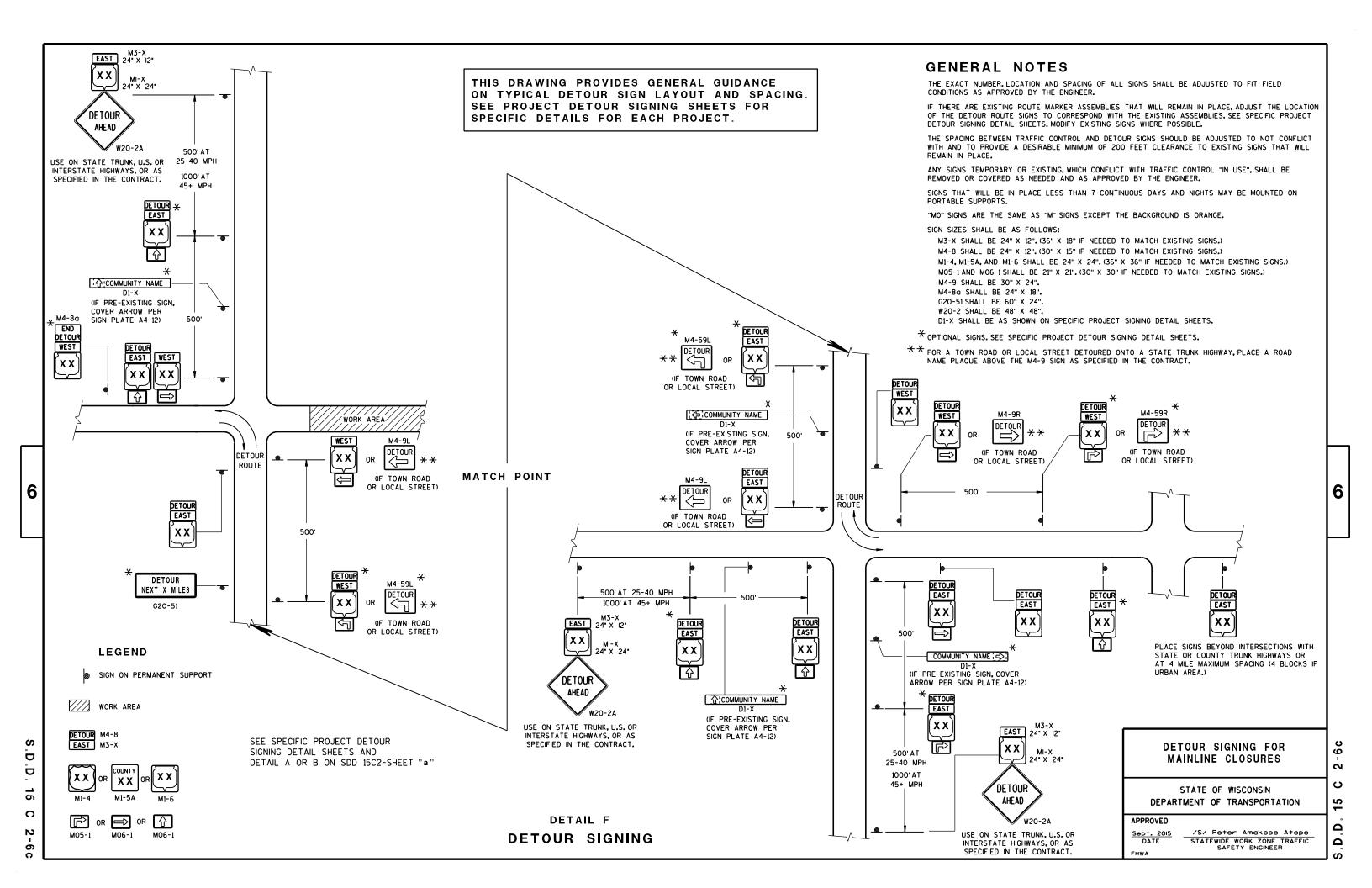
2

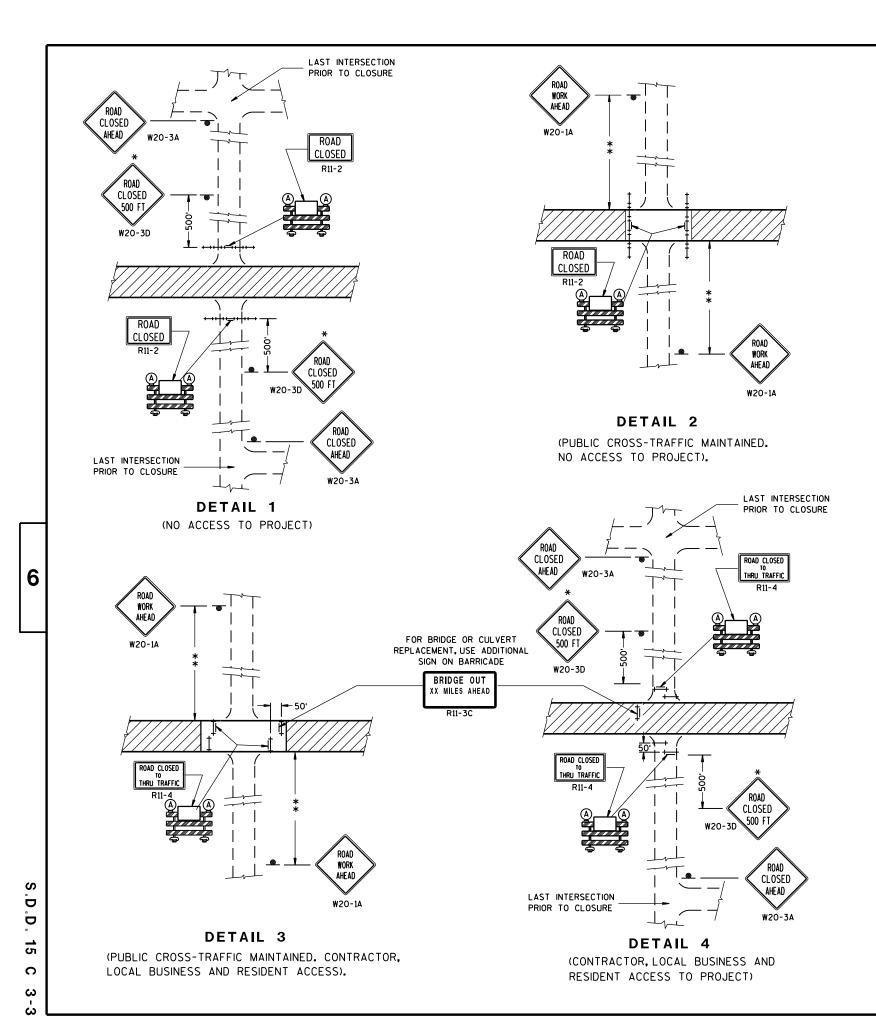
Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015

DATE
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

S.D.D. 15 C 3

6

GENERAL NOTES

6

Ö

D

15

C

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

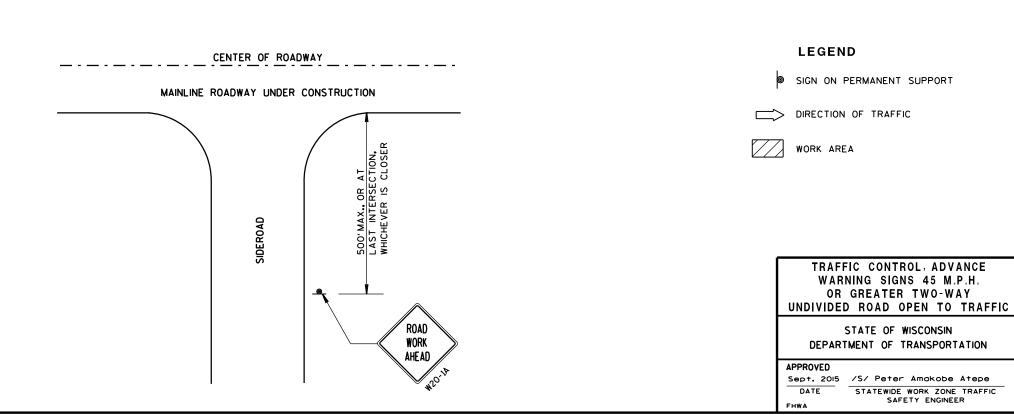
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

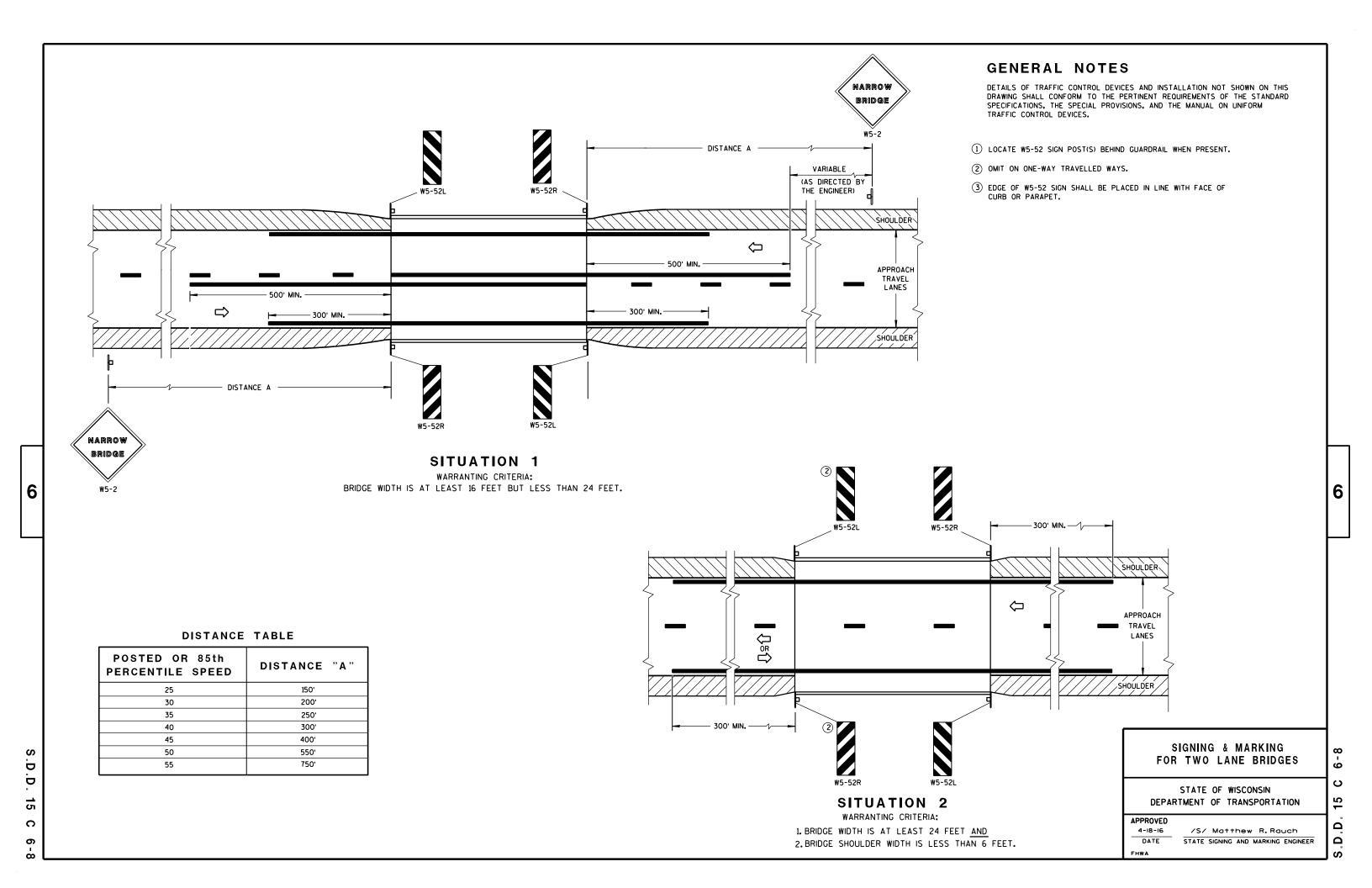
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

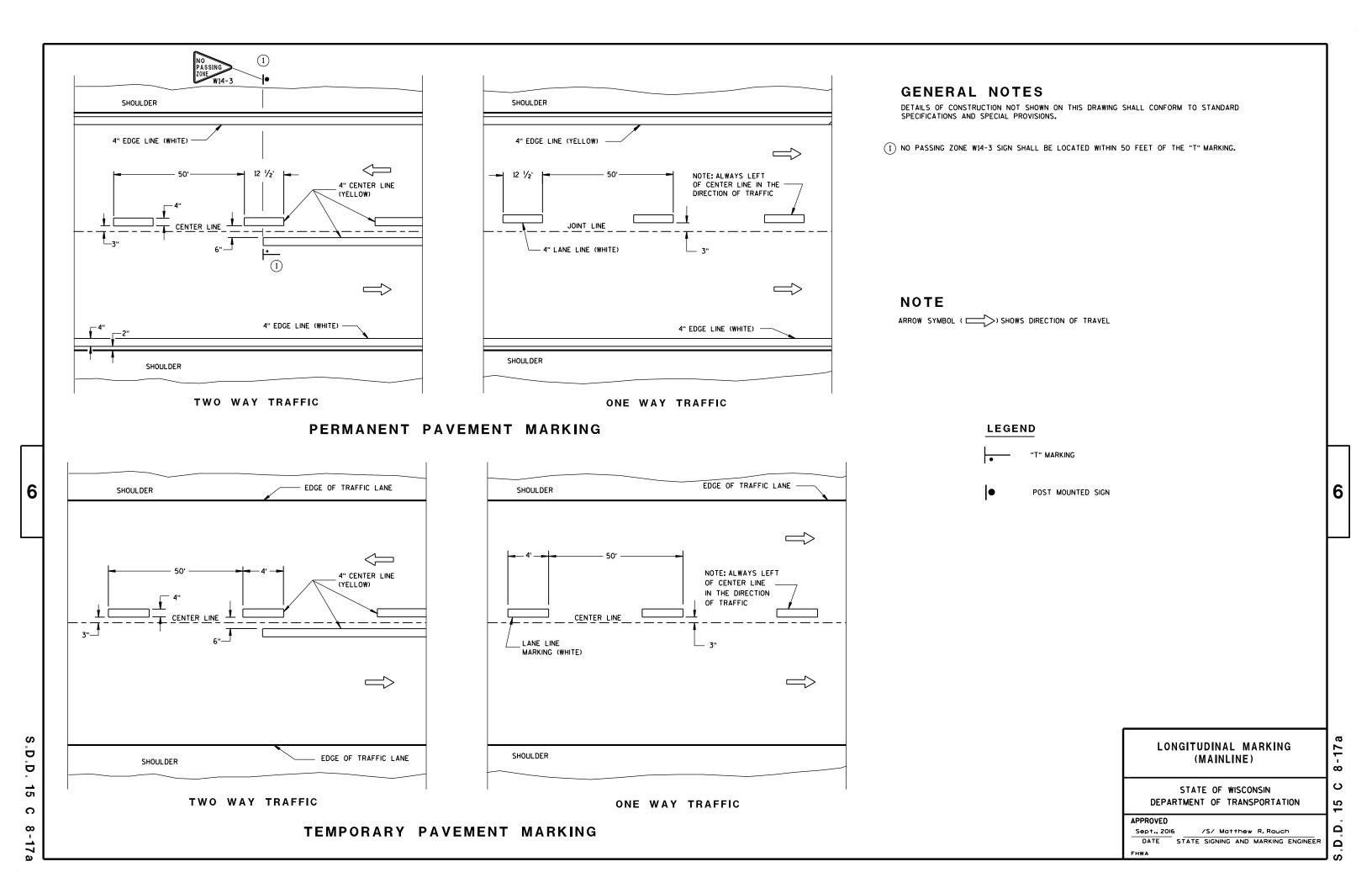


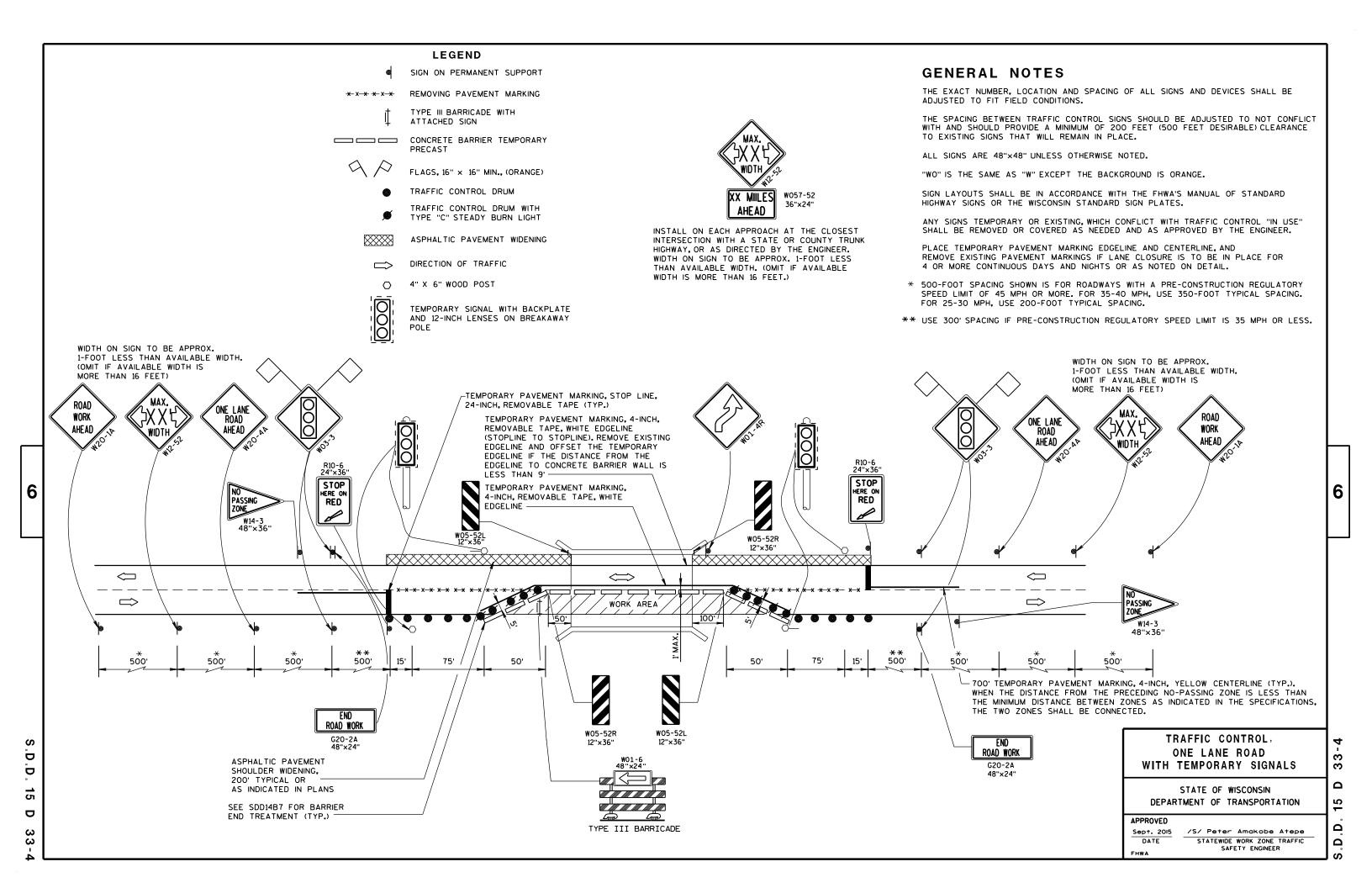
6

4

SAFETY ENGINEER







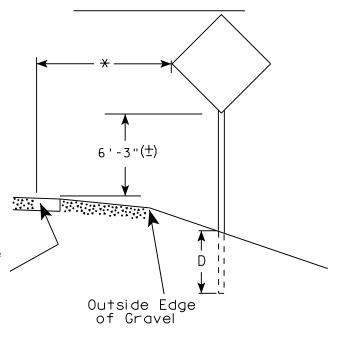
urban area

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

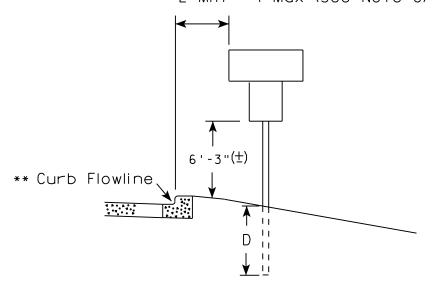
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

** 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.

POST EMBEDMENT DEPTH

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

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

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 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 (\pm) 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" (±). 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" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

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

PLOT SCALE : 100.601251:1.000000



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

WISDOT/CADDS SHEET 42

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. J-Assemblies are considered to be one sign for mounting height.
- 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'' (\pm) 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.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 108" to 144"	12''	

COUNTY:

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

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

COUNTY:

PLOT NAME :

PLOT BY: mscsja

WISDOT/CADDS SHEET 42

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

For State Traffic Engineer

SHEET NO:

PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

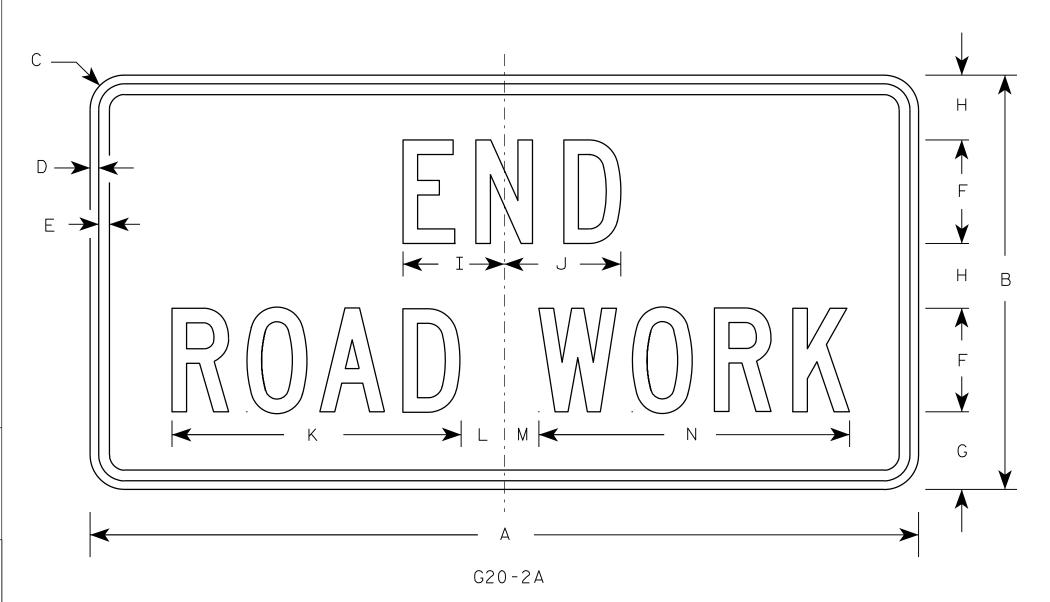


1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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 :

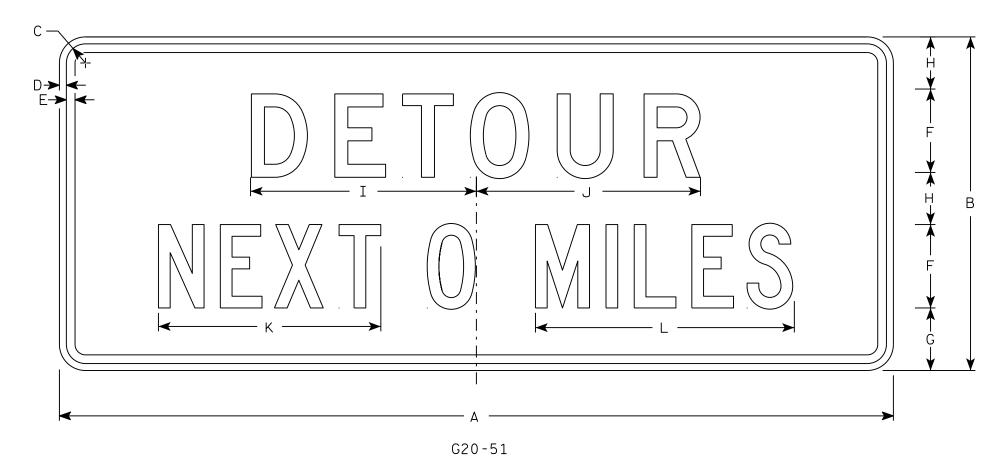
PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series Line 1 is D and Line 2 is 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. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance



SIZE Z D Ε 4 1/2 3 3/4 16 1/4 16 1/8 24 | 1 3/8 1/2 5/8 16 18 5/8 6 10 3 24 1 3/8 5/8 4 1/2 3 3/4 16 1/4 16 1/8 1/2 60 6 16 18 5/8 10

COUNTY:

STANDARD SIGN G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ROVED Matthew & Rauch
For State Traffic Engineer

SHEET NO:

DATE 3/14/17

PLATE NO. G20-51.2

PLOT SCALE: 6.904489:1.000000

HWY:

PROJECT NO:

- 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

J M N BLACK N

		F A H H H
Metric equivalent for this sign is:	M1 - 6	

HWY:

PROJECT NO:

900 mm X 900 mm

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	Υ	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 ½	10 1/4	2 1/2	8 %	11 1/2	1	1 %	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 3/8	12 5/8	17 1/8	1 ½	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5 3/8	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 3/8	12 5/8	17 1/8	1 ½	2 1/8	16 1/8	33											9.0	. 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

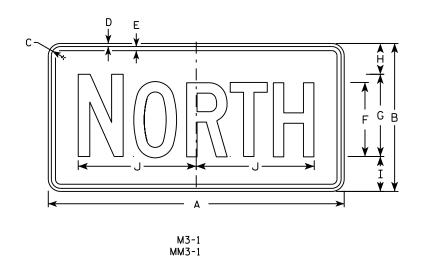
Cheste J Spang

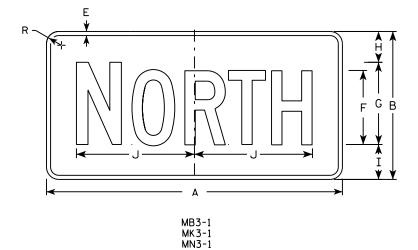
For State Traffic Engineer

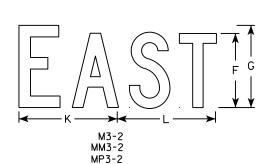
DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

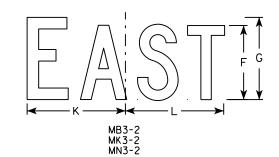
PLOT NAME :

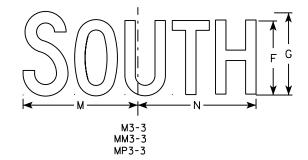


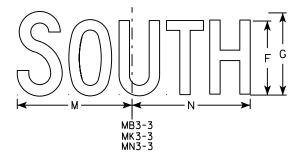


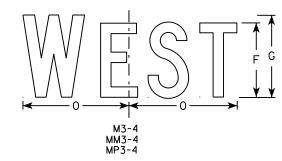


MP3-1

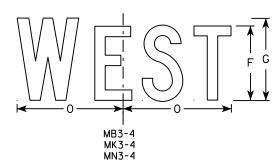








HWY:



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	0	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

- 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 B
- 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.

) A G	
	;
→ G →	
Y	

Α С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48.DGN

PROJECT NO:

HWY:

PLOT DATE: 10-NOV-2010 13:18

PLOT BY : ditjph

PLOT SCALE : 4.767

PLOT NAME :

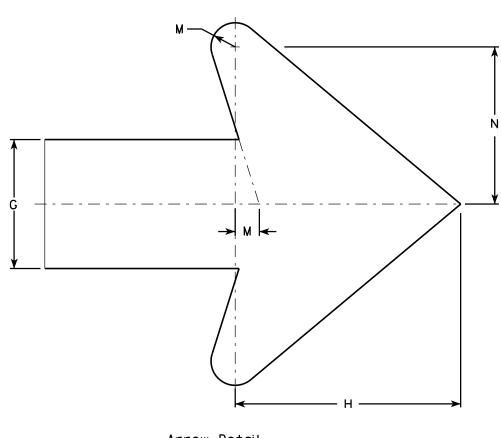
PLOT SCALE: 4.767233:1.000000

WISDOT/CADDS SHEET 42

- 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 D
- 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. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

PLOT NAME :

w x	Y Z Ar
	5.0
	12.
	12.

COUNTY:

M4-9R

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M49R.DGN

HWY:

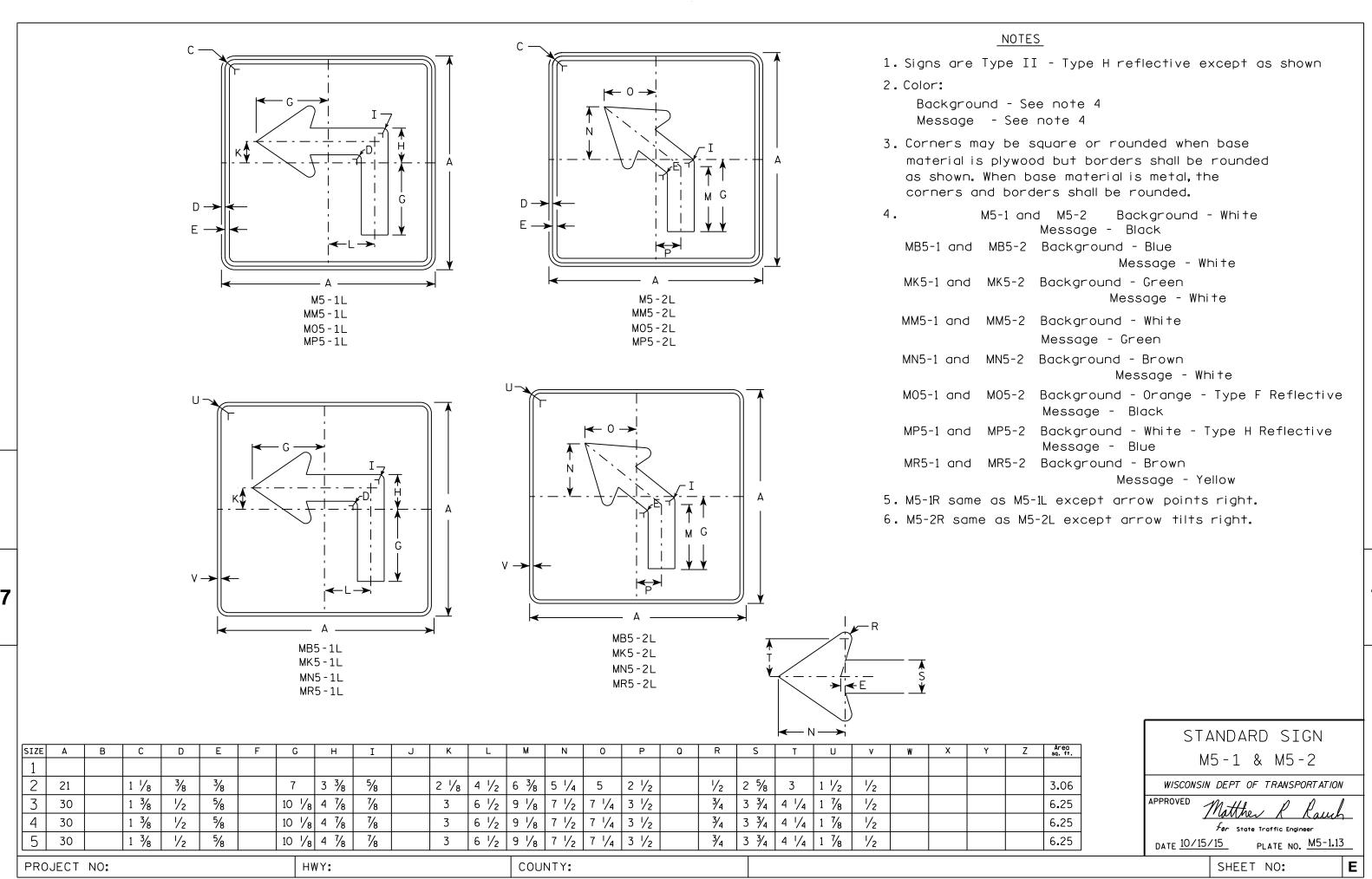
PROJECT NO:

PLOT DATE: 09-MAR-2011 11:17

PLOT BY: mscj9h

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

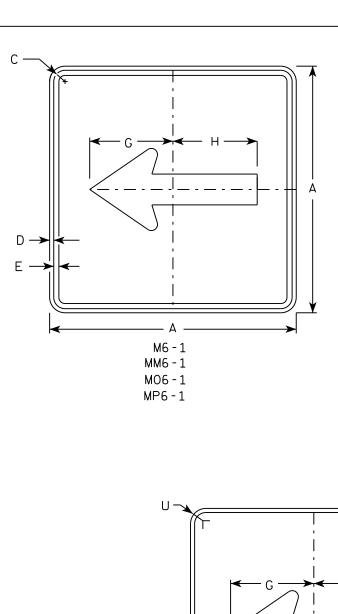


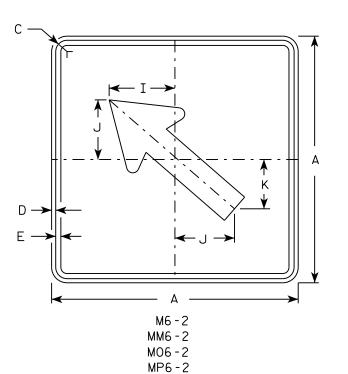
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

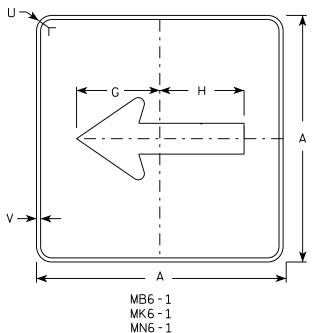
PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

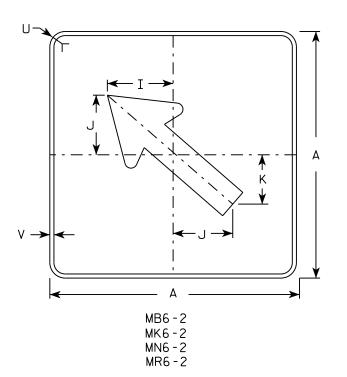






MR6-1

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

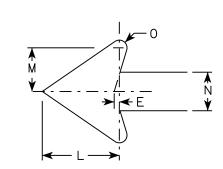
Message - Black

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 1																											
2	21		1 1/8	3/8	3/8		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	5/8		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
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:

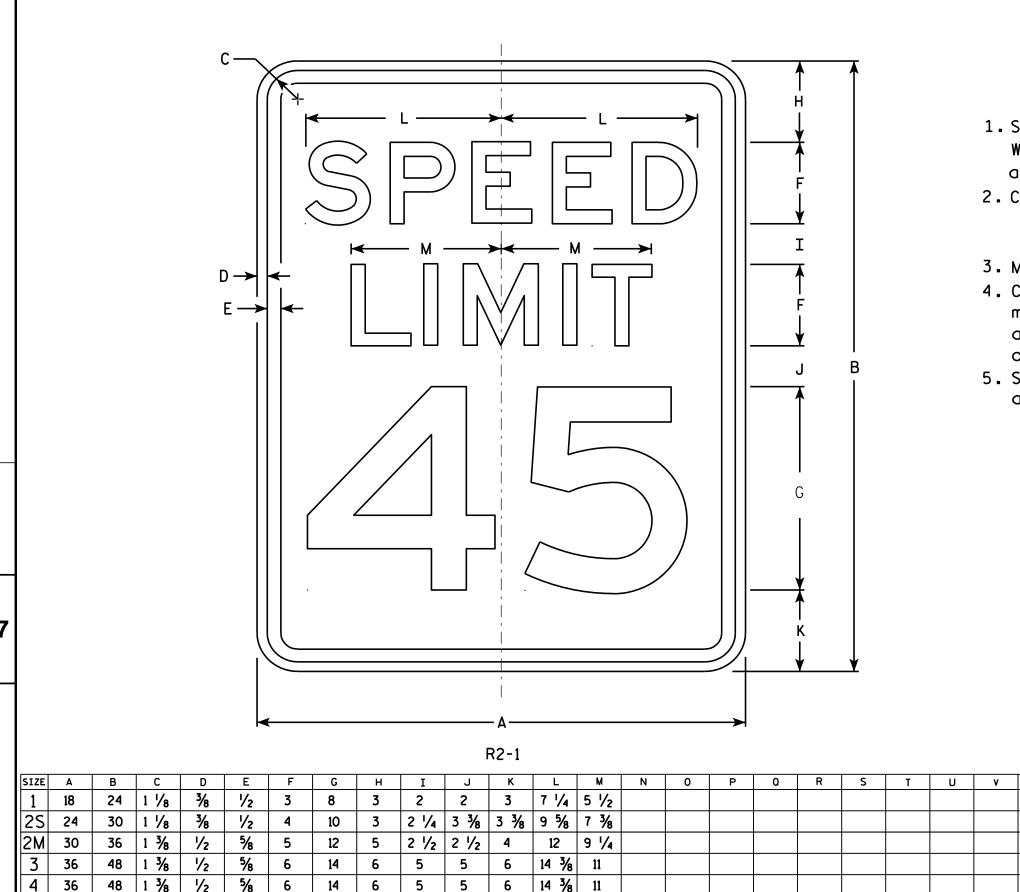
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

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

PLOT SCALE . 11 675051.1 000000



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

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 - Black

- 3. Message Series E
- 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.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matther R Raus For State Traffic Engineer PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

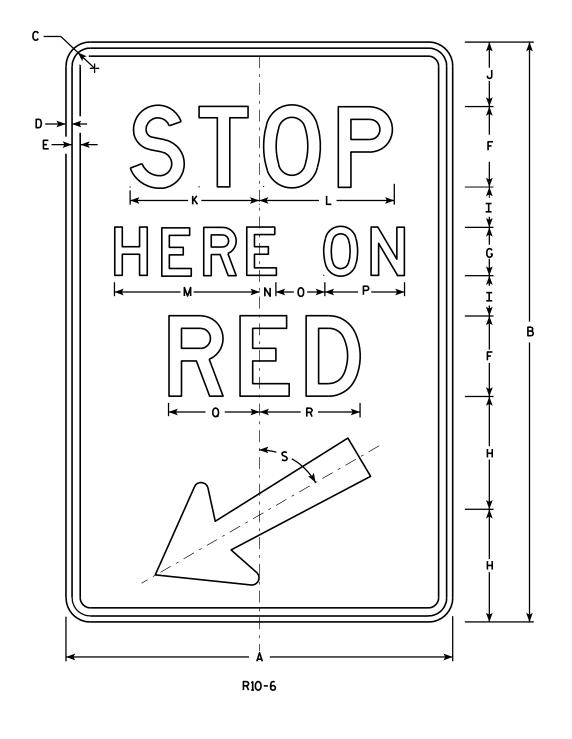
60

5

48

PROJECT NO:

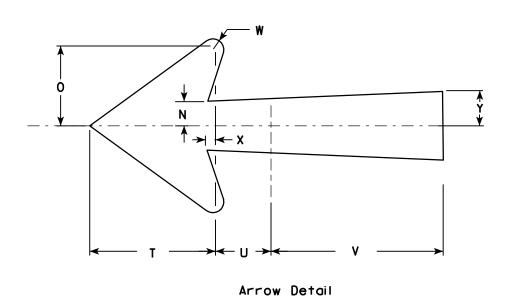
PLOT NAME :



- 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 - Black

- 3. Message Series D
- 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.



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	х	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

STANDARD SIGN R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 4/5/11

PLATE NO. R10-6.6

COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

FILE NAME: C:\Users\PROJECTS\tr_stdplate\R106.DGN

PROJECT NO:

HWY:

PLOT DATE: 05-APR-2011 09:50

- 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 - Black

- 3. Message Series D
- 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.

C —		\
D A E A		$ \begin{array}{c c} G & \hline & F & \hline & B & \hline & G & G & G & G & \hline & G & G & G & G & G & \hline & G & G & G &$
	R11-2B	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areg sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
2M	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
4	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2B.2

SHEET NO:

PROJECT NO:



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

G

Background - White 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 to nearest quarter mile and optically adjust spacing to achieve proper balance.

HWY:

R11-3B

** See Note 5

 $D \rightarrow$

E→

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PLATE NO. R11-3B.3

SHEET NO:

SIZE A В С D 1 3/8 5/8 10 3/4 8 3/8 4 3/4 6 1/2 36 18 1/2 4 3 2 1/2 2 2 13 1/4 2 1/4 3 1 1/2 2 2 6 3/4 7 1/8 4.5 60 30 1 3/8 1/2 4 1/4 3 3/8 20 1/8 13 1/4 1 3/4 17 3/8 13 1/8 3 1/2 12.5 5 10 11 1/8 2M 4 1/4 3 3/8 20 1/8 13 1/4 1 3/4 3 1/2 11 1/8 30 17 3/8 13 1/8 12.5 4 5

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113B.DGN

PROJECT NO:

PLOT DATE: 21-MAR-2017 08:46

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

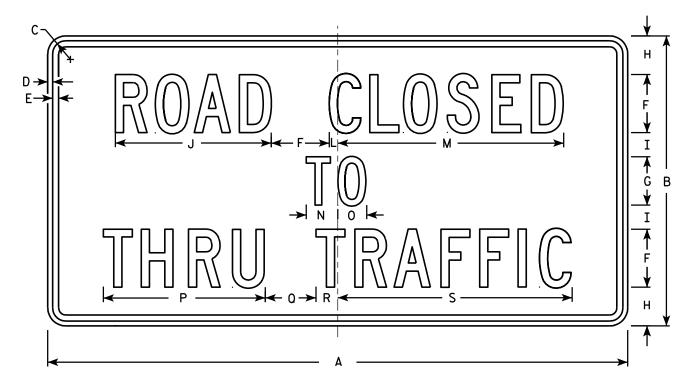
PLOT SCALE: 6.896672:1.000000

WISDOT/CADDS SHEET 42

- 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 - 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.



R11-4

SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	М	Z	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7 /8	23 ¾	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7∕8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-4.3

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN HWY:

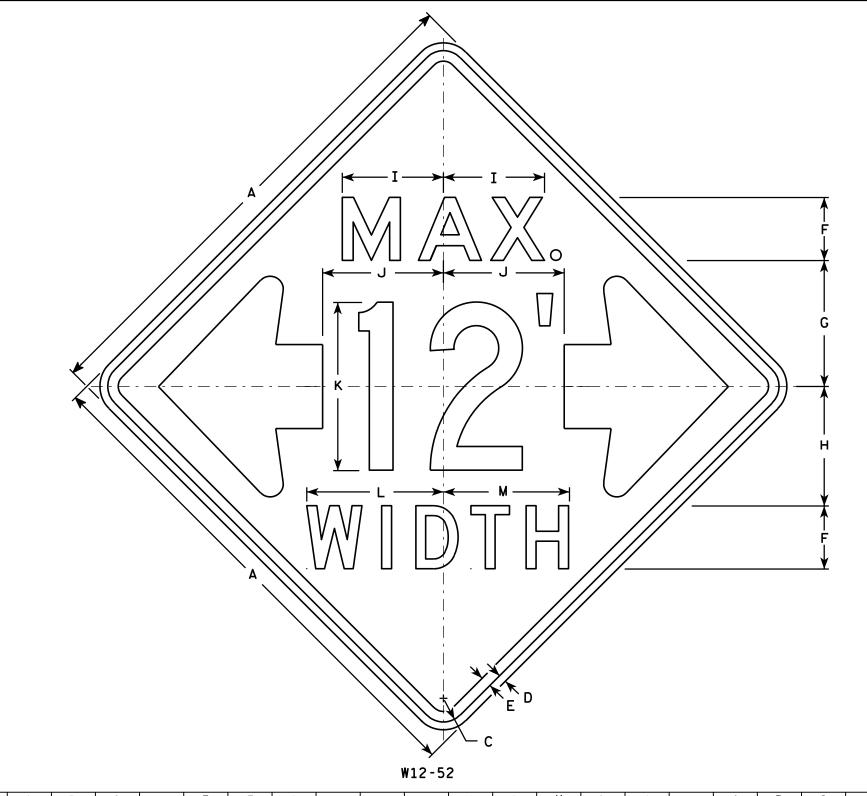
PLOT DATE: 01-APR-2011 14:11

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

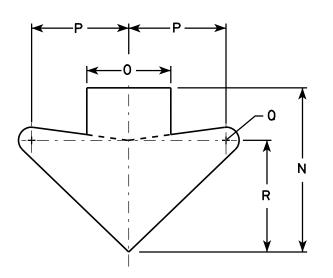




- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series 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. The top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

CT TE			T					ш			1/		1.4		_		_		_					· ·	·	7	Area
SIZE	Α	В	L	ט	-	-	G	Н	l I	J	K	L	M	N	U	P	U	R	>	1	U	V	W	X	T		Area sq. ft.
1																											
25	48		2 1/4	₹4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
2M	48		2 1/4	₹4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



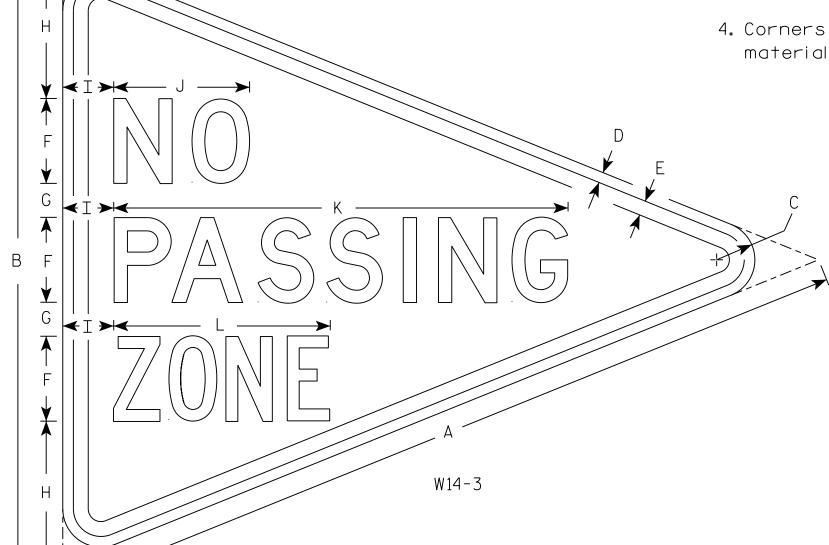
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Message – Black

3. Message Series - Lines 1 and 2 are Series D. Line 3 is series C.

4. Corners and borders shall be rounded on all base materials for this sign.



			,																								
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	<i>7</i> ⁄8	5	2	8 ½	3	8	26 ¾	12 3/4															5.56
2M																											
3																											
4																											
5																											
PRO	JECT	NO:					Н	WY:					COL	INTY:													

STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

500 3/21/17

E 3/21/17 PLATE NO. W14-3

SHEET NO:

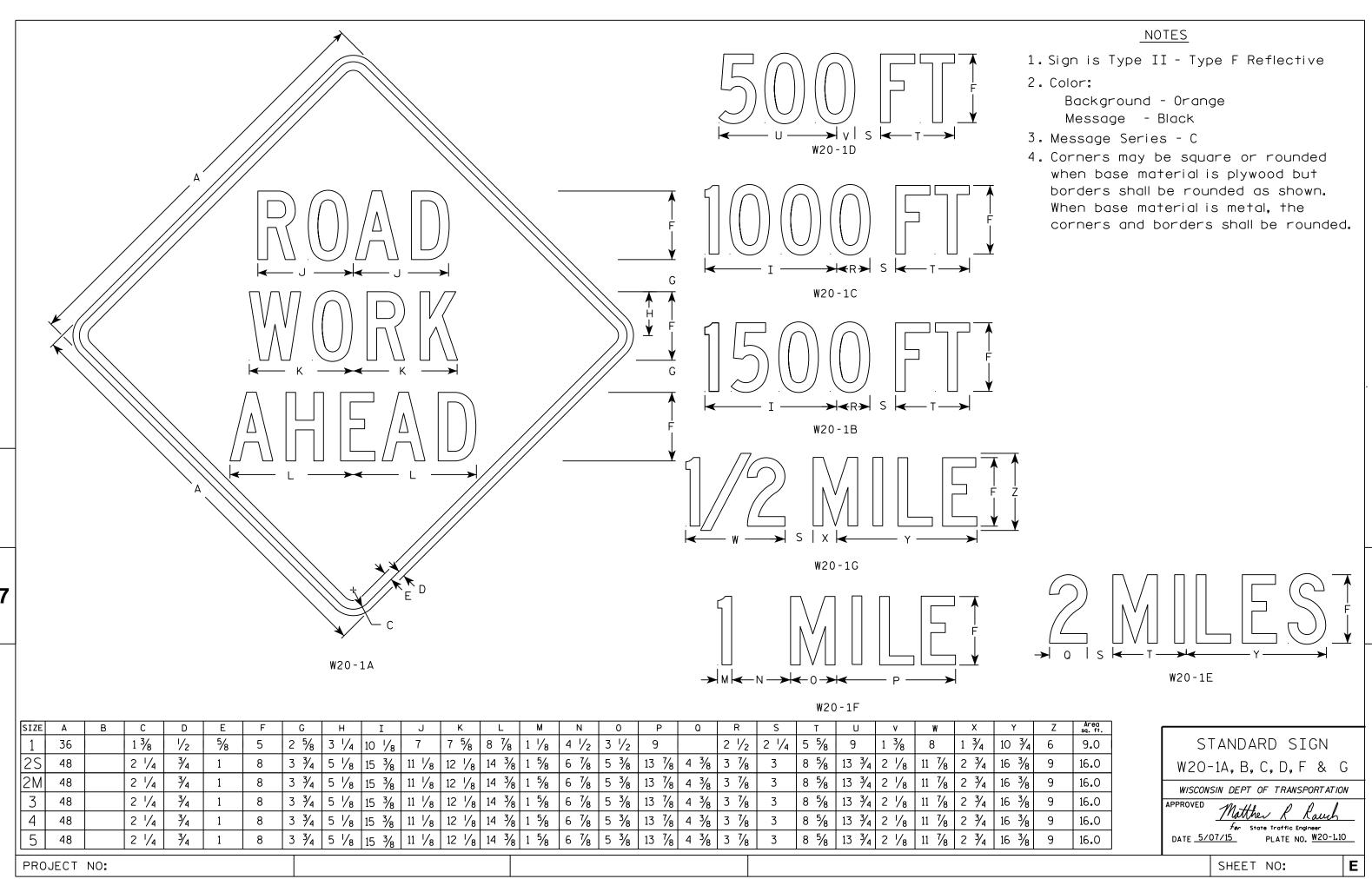
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W143.DGN

PLOT DATE: 21-MAR-2017 08:48

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

PLOT SCALE : 5.650195:1.000000

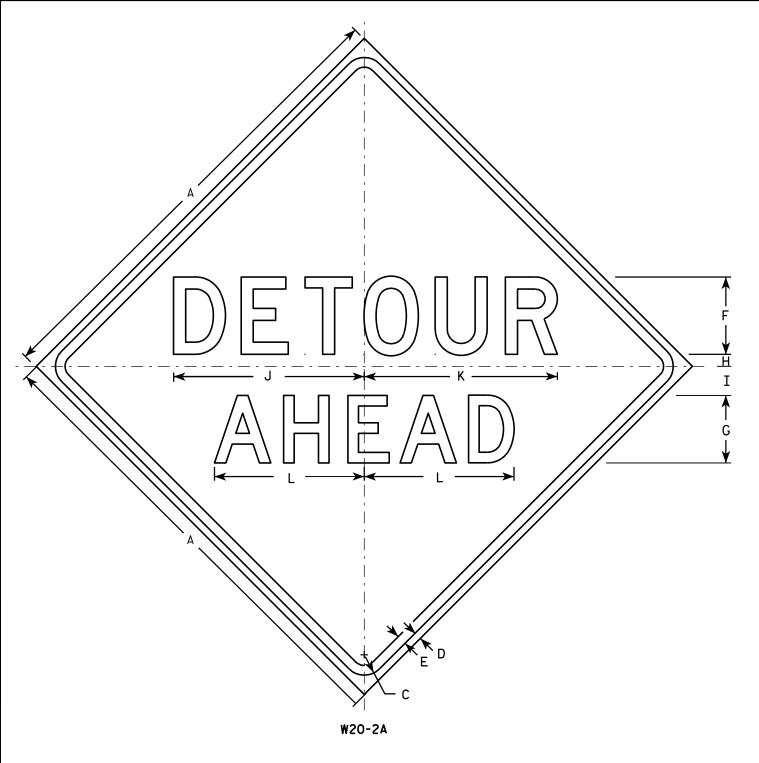
WISDOT/CADDS SHEET 42



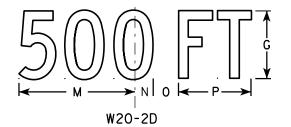
FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

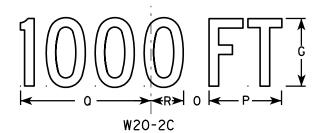
PLOT DATE . 01-DEC-2015 18.24

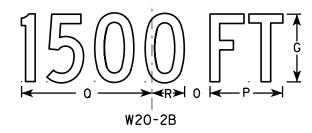
PIOT RY * \$\$ plotuser \$\$

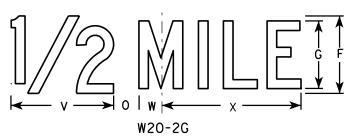


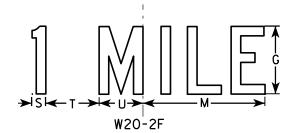
HWY:











PLOT BY: mscj9h

<u>NOTES</u>

- 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 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. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

SIZE	. Α	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	36		1 1/8	5/8	₹4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 ½	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	₹4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8	·		16.0

COUNTY:

STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-2.6

SHEET NO:

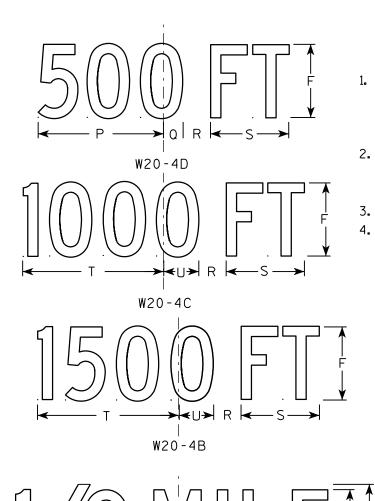
PROJECT NO:



- 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.



W20-4B

W20-4G

W20-4G

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	Y	Z	Area sq. ft.
1	36		1 %	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8 2 3/8	8	13 1/2	7	8 1/8	9	1 3/8	1 1/8	5 %	10 1/8	2 ½	1 1/8	4 ½	3 ½	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 % 3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 ½	3	1 1/2	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0

STANDARD SIGN W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

SHEET NO:

W20-4A

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W204.DGN

PROJECT NO:

PLOT DATE: 18-MAR-2011 12:11

PLOT BY: mscj9h

W20-4F

WISDOT/CADDS SHEET 42

Ε

- 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. 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.

	G
	_ ¥ B
W01-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areg sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN

HWY:

PROJECT NO:

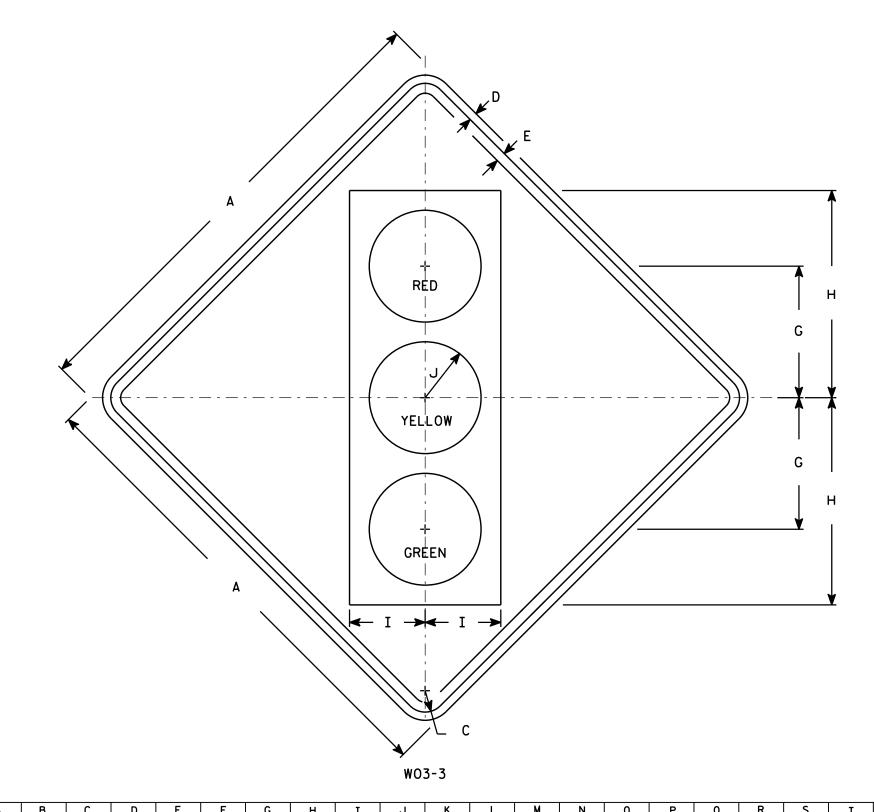
PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000

WISDOT/CADDS SHEET 42



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

Background - Orange 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. Symbol and border are non-reflective black. Top circle - Type H Reflectorized Red Center circle - Same as background Bottom circle - Type H Reflectorized Green

I																											
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		10	15 ¾	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3∕4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3∕4	1		12 1/2	20	7 1/2	5																	16.0

COUNTY:

STANDARD SIGN WO3 - 3

WISCONSIN DEPT OF TRANSPORTATION

DATE 11/20/13 PLATE NO. WO3-3.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W033.DGN

HWY:

PROJECT NO:

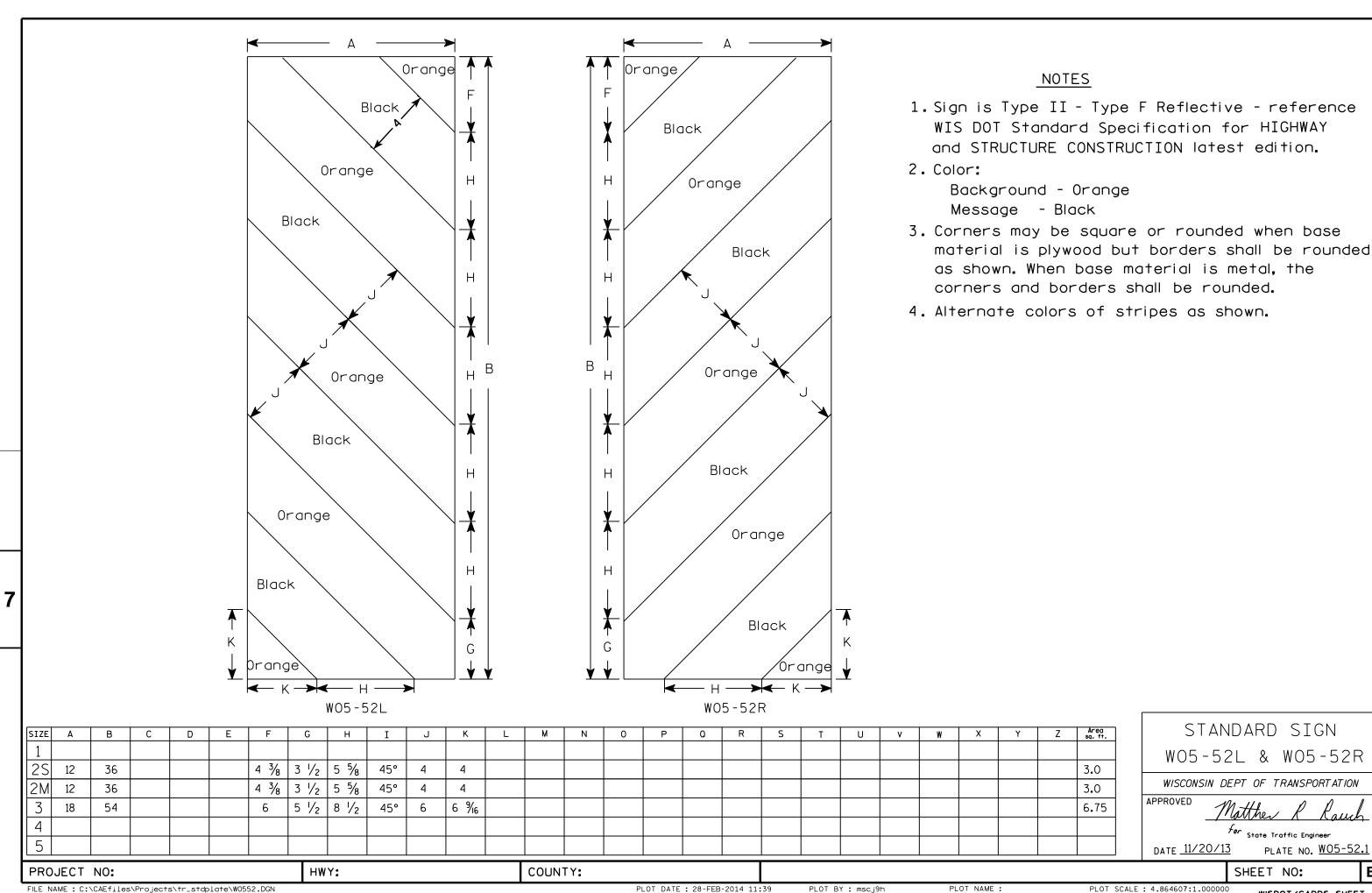
PLOT DATE: 20-NOV-2013 11:26

PLOT NAME :

PLOT BY: mscsja

WISDOT/CADDS SHEET 42

PLOT SCALE: 7.296908:1.000000



PLOT NAME : PLOT SCALE: 4.864607:1.000000

- 1. Sign is Type II Type F Reflective
- 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 to the nearest quarter mile and optically adjust spacing to achieve proper balance.

W057-52

HWY:

* See note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	12													6.0
25	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6	19 ½	14	15	2 3/4	16 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 3/21/17

PLATE NO. W057-52.2

....

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN

PROJECT NO:

PLOT DATE: 21-MAR-2017 08:53

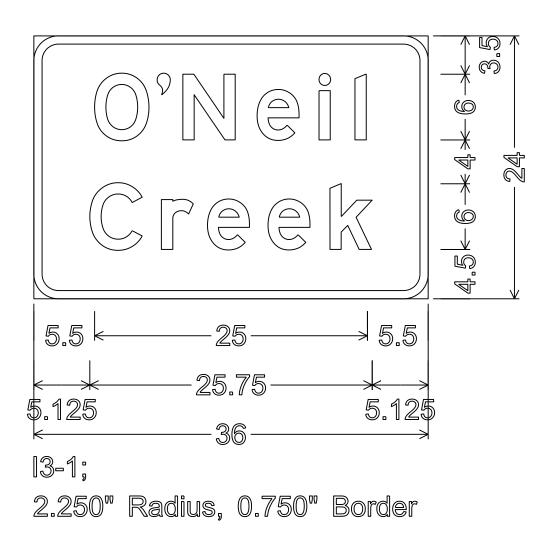
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 8.139174:1.000000

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

Background - Green except as noted Message - White

3. Message Series - E



7

PROJECT NO: 8610-07-73 HWY: STH 124 COUNTY: CHIPPEWA PERMANENT SIGNING SHEET NO: E

32'-0" OVERLAY (CONCRETE) LIMITS 16'-0" STAGE 1 CONSTRUCTION 16'-0" STAGE 2 CONSTRUCTION 13'-0" STAGE 1 TRAFFIC 1'-6'' 13'-0" STAGE 2 TRAFFIC PPT. 2" AVERAGE OVERLAY THK. TEMP. BARRIER STAGE 2 TEMP. BARRIER STAGE 1 2% PROPOSED 2% EXISTING -7" EXIST. DECK 11/2" MIN. OVERLAY 2% EXISTING LONGITUDINAL REMOVE 1" MIN. OF EXISTING DECK UNDER BID ITEM "CLEANING DECKS" CONST. JOINT 6 SPA. @ 4'-10" = 29'-0" EXISTING 36-INCH PRESTRESSED GIRDERS

CROSS SECTION THRU ROADWAY

LOOKING EAST

LIST OF DRAWINGS 1. CONCRETE OVERLAY 2. REMOVAL LIMITS & QUANTITIES 3. WEST ABUTMENT DIAPHRAGM DETAILS 4. EAST ABUTMENT BEARING MODIFICATIONS 5. EAST ABUTMENT DIAPHRAGM DETAILS 6. SLOPED FACE PARAPET "B" INDICATES WING NUMBER \bigcirc 66'-0" SPAN 3 -END OF DECK STA. 13+03.65 12+50 12 + 75−⊊ STH 64 NO. DATE -LONGITUDINAL CONST. JOINT END OF DECK STA. 12+32.66 8 DESIGNED 4 2 62'-3" OVERLAY (CONCRETE) LIMITS 5'-0"± ABUT. REPAIR (TYP.) PLAN

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20 INVENTORY RATING: HS-15

OPERATING RATING: HS-36
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 230 (KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY: DECK OVERLAY ALL OTHER -f'c = 4,000 P.S.I. -f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT: GRADE 60 fy = 60,000 P.S.I.

TRAFFIC VOLUME

STH 64

ADT = 2,300 (2037) R.D.S. = 60 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF NEW OVERLAY.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF NEW PARAPET SECTIONS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.FIELD VERIFY DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION OR ORDERING MATERIALS.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY BY MORE THAN 1/2".

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

STRUCTURE DESIGN CONTACTS:

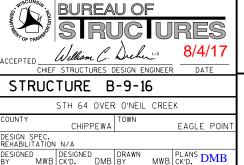
MICAH BROOKS (608) 266-5080

REVISION

STATE PROJECT NUMBER

8610-07-73

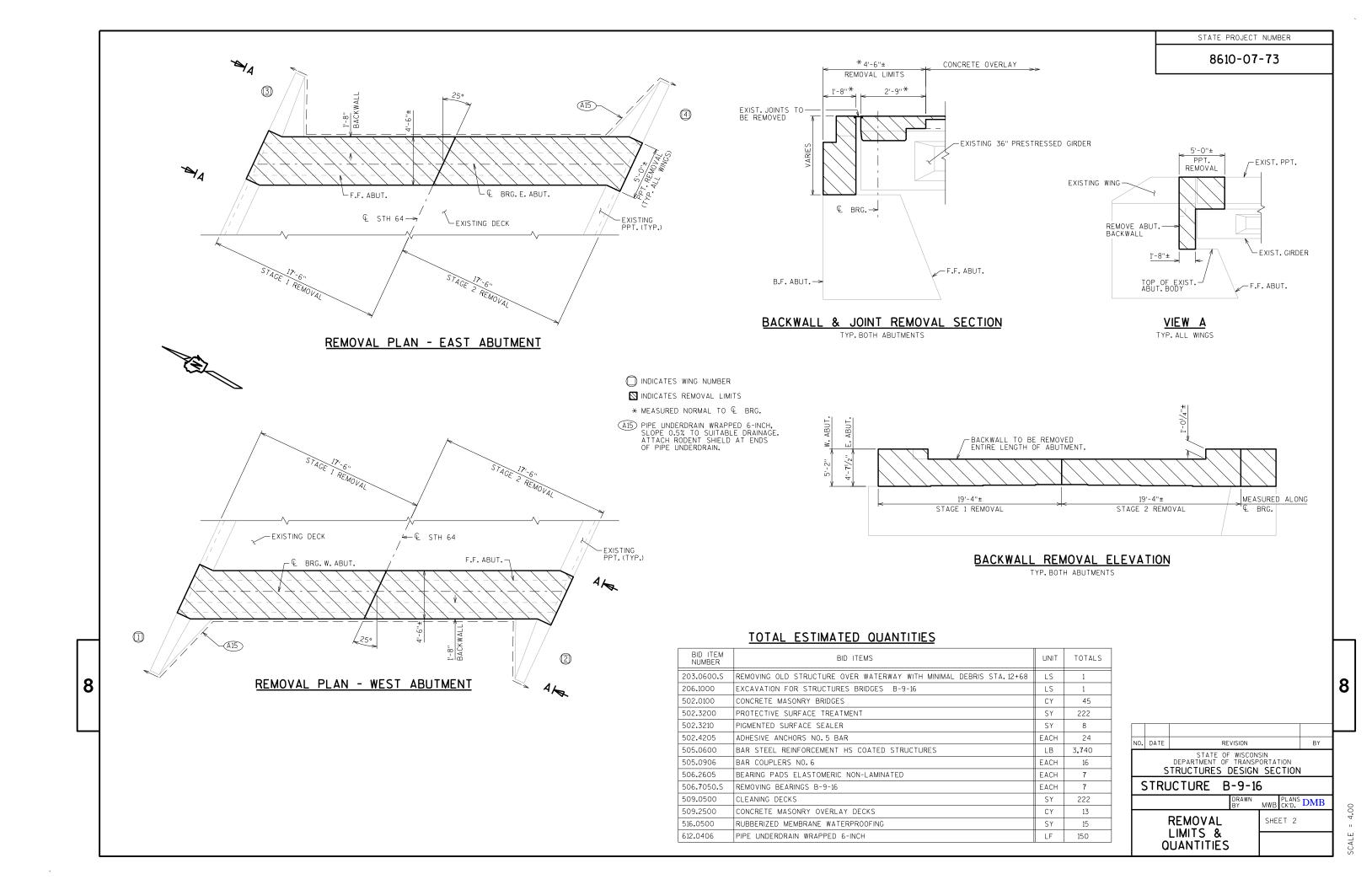
LAURA SHADEWALD (608) 26**7**-9592

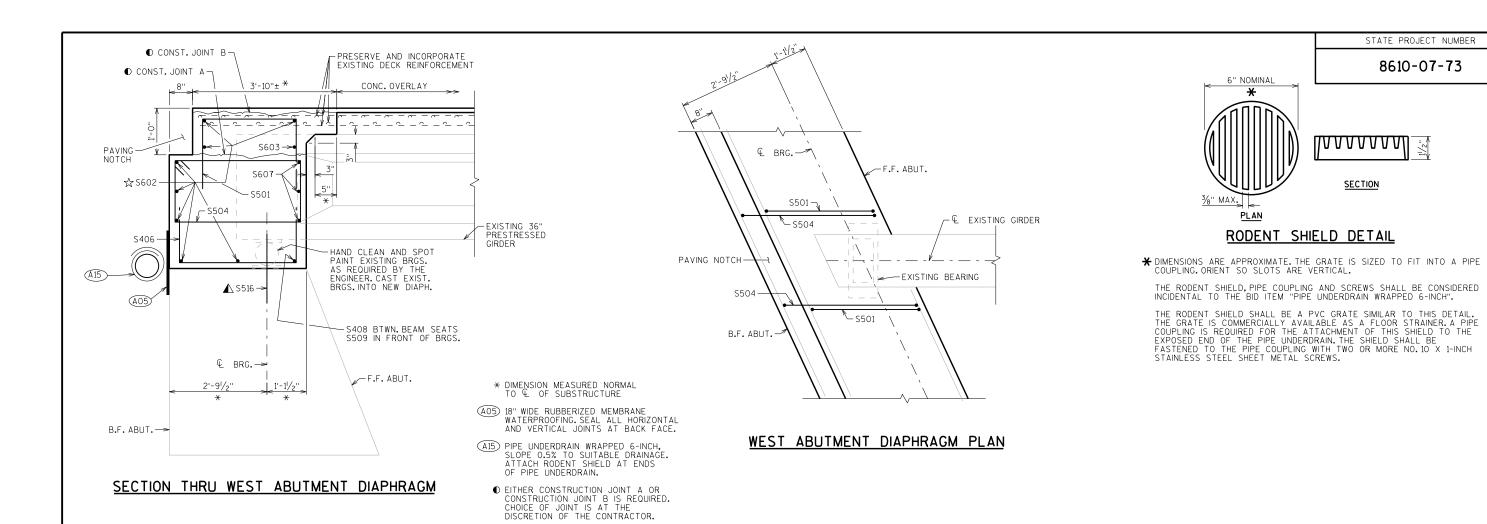


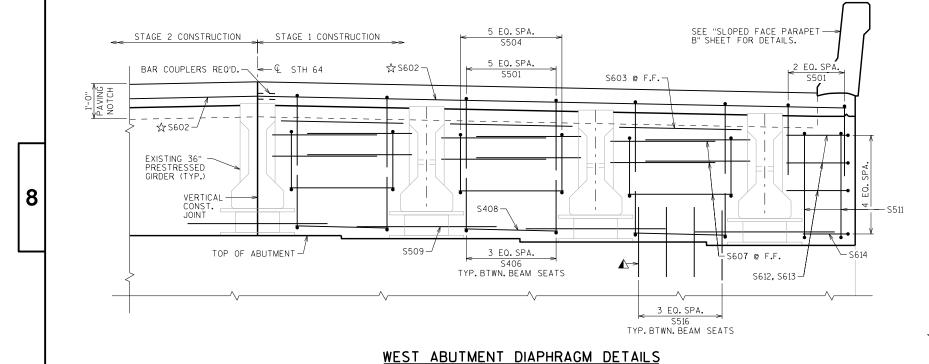
CONCRETE OVERLAY

SHEET 1 OF

BY







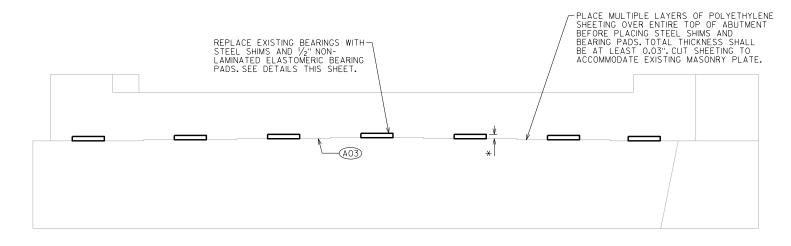
(LOOKING WEST)

☆ BAR COUPLERS REQUIRED IN STAGE 1 CONSTRUCTION.BAR LENGTH SHOWN IS TO VERTICAL CONSTRUCTION JOINT.ADJUST AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS TO ACCOMMODATE BAR COUPLERS.

ADHESIVE ANCHORS NO.5 BAR.EMBED 1'-0" INTO EXISTING CONCRETE BETWEEN GIRDERS.

NO.	DATE	RE	VISION			BY					
	S	STATE OF DEPARTMENT OF TRUCTURES I	TRANSP	ORTAI		l					
S	TRL	JCTURE B	-9-16	5							
			DRAWN BY	MWB	PLANS CK'D.	DMB					
WEST ABUTMENT SHEET 3											
	U	IAPHRAGM DETAILS									

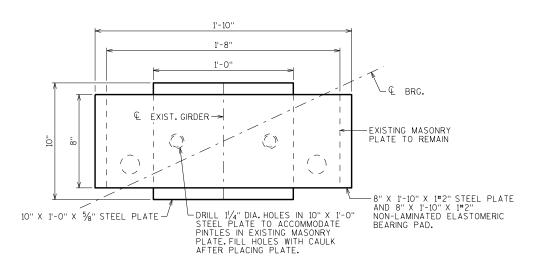
SCALE - 133



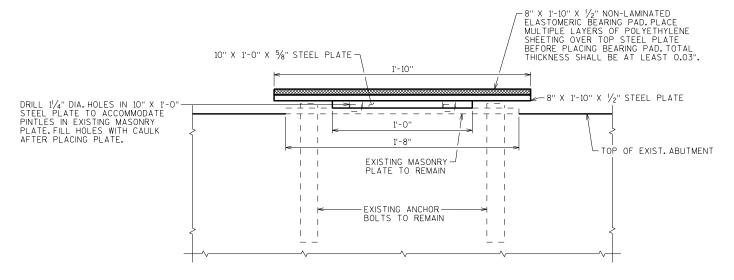
* PLACE ONE 10" X 1'-0" X $\frac{5}{8}$ " STEEL PLATE AND ONE 8" X 1'-10" X $\frac{1}{2}$ " STEEL PLATE ON EXISTING MASONRY PLATE. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETING OVER TOP STEEL PLATE BEFORE PLACING BEARING PAD. TOTAL THICKNESS SHALL BE AT LEAST 0.03".

8

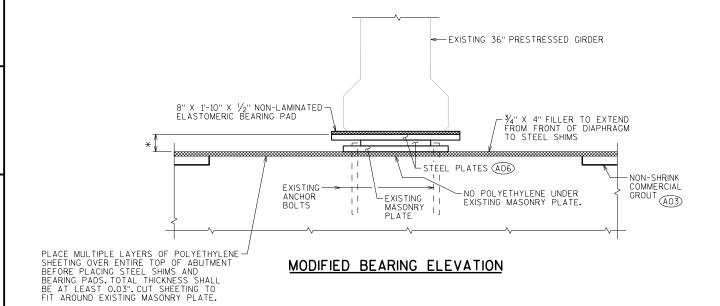
MODIFIED ELEVATION - EAST ABUTMENT



NEW BEARING PLAN DETAIL

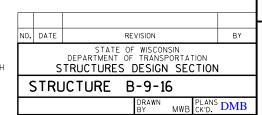


NEW BEARING ELEVATION DETAIL



PLACE A DEPARTMENT APPROVED NON-SHRINK COMMERCIAL GROUT OVER THE WIDTH OF THE ABUTMENT TOP BETWEEN EXISTING BEAM SEATS PRIOR TO PLACING POLYETHYLENE SHEETS. PLACE GROUT AS REQUIRED TO PRODUCE A SMOOTH SLIDING SURFACE FREE OF PROTRUSIONS. REMOVE DELAMINATED OR LOOSE CONCRETE AND CLEAN THE SURFACE PRIOR TO PLACING GROUT. ADDITIONAL SURFACE PREPARATION MAY BE REQUIRED PER THE MANUFACTURER'S INSTRUCTIONS. MIX, PLACE, AND CURE GROUT PER THE MANUFACTURER'S RECOMMENDATIONS AND AS DIRECTED BY THE ENCINEER. DO NOT APPLY LOADS TO THE GROUT UNTIL A MINIMUM COMPRESSIVE STRENGTH OF 3,500 P.S.I. IS ACHIEVED. NON-SHRINK COMMERCIAL GROUT AND SURFACE PREPARATION ARE INCLUDED WITH THE BID ITEM "CONCRETE MASONRY BRIDGES".

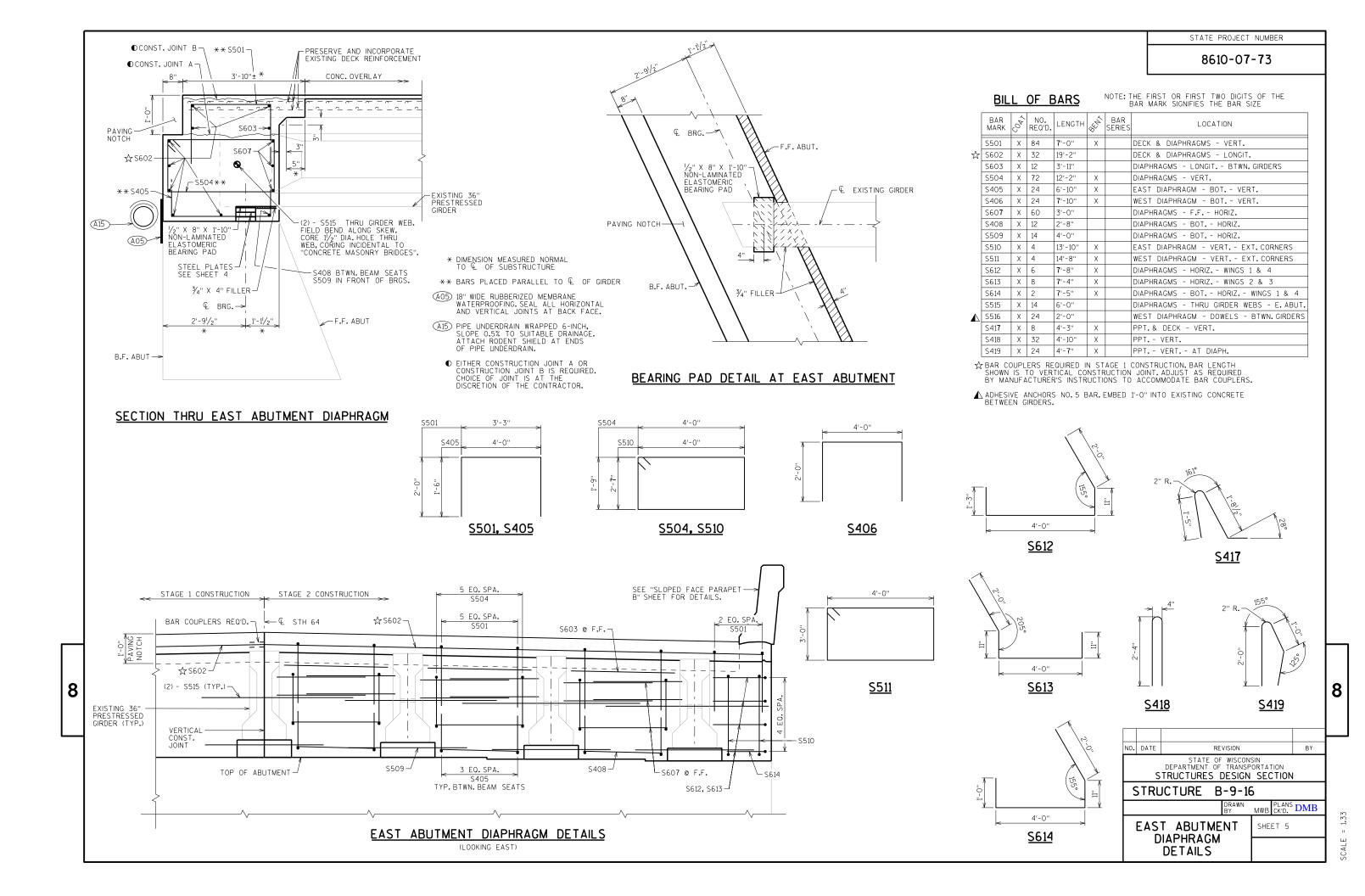
(AO6) STEEL PLATES SHALL BE ASTM A709 GRADE 50, PLATES SHALL BE CONNECTED USING (2) - 11/2" \$\phi\$ PINTLES OR OTHER ENGINEER APPROVED METHOD. STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIALS OF EQUIVALENT YIELD STRENGTH AND ELONGATION. STEEL PLATES ARE INCLUDED WITH BID ITEM "BEARING PADS ELASTOMERIC NON-LAMINATED".

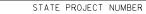


EAST ABUTMENT
BEARING
MODIFICATIONS

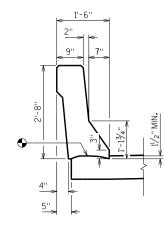
BRAWN MWB CKD. DMB
SHEET 4

SALE = 2.67



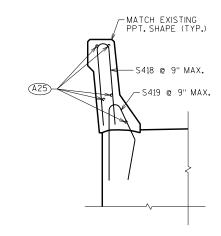


8610-07-73

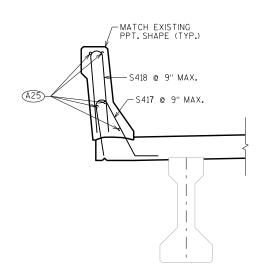


PARAPET DETAILS

MATCH EXISTING PPT. SECTION



SECTION THRU PARAPET AT DIAPHRAGM



SECTION THRU PARAPET ON DECK

- CONSTRUCTION JOINT. STRIKE OFF AND LEAVE ROUGH AS SHOWN.
- SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK, TRIM REBAR AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.
- (A29) ROUGHEN SURFACE OF CONCRETE
 1/4" DEEP MINIMUM AT ALL AREAS
 OF NEW TO EXISTING CONCRETE
 CONTACT.

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-9-16

DRAWN MWB CKD. DMB

SLOPED FACE PARAPET "B"

8

EXIST. WING ->

EXISTING WING -

(A25)

5'-0"± NEW PPT.

1/2" FILLER

← F.F. OF ABUT.

5'-0"± NEW PPT.

1/2" FILLER

PLAN TYP. ALL WINGS

3'-2"±

ELEVATION
TYP. ALL WINGS

1'-10''±

2 EQ. SPA.

S418 -

S419 —

B.F. ABUT.

BACKWALL

3'-2"±

4 EQ.SPA.

MATCH EXISTING TOP OF PPT.

- S41**7**

— F.F. ABUT.

<u></u>S41**7**

F.F. OF ABUT. BACKWALL

F.F. ABUT.

- TOP OF EXISTING PPT.

TOP OF

_EDGE OF DECK

1'-10''±

¿ EQ. SPA.

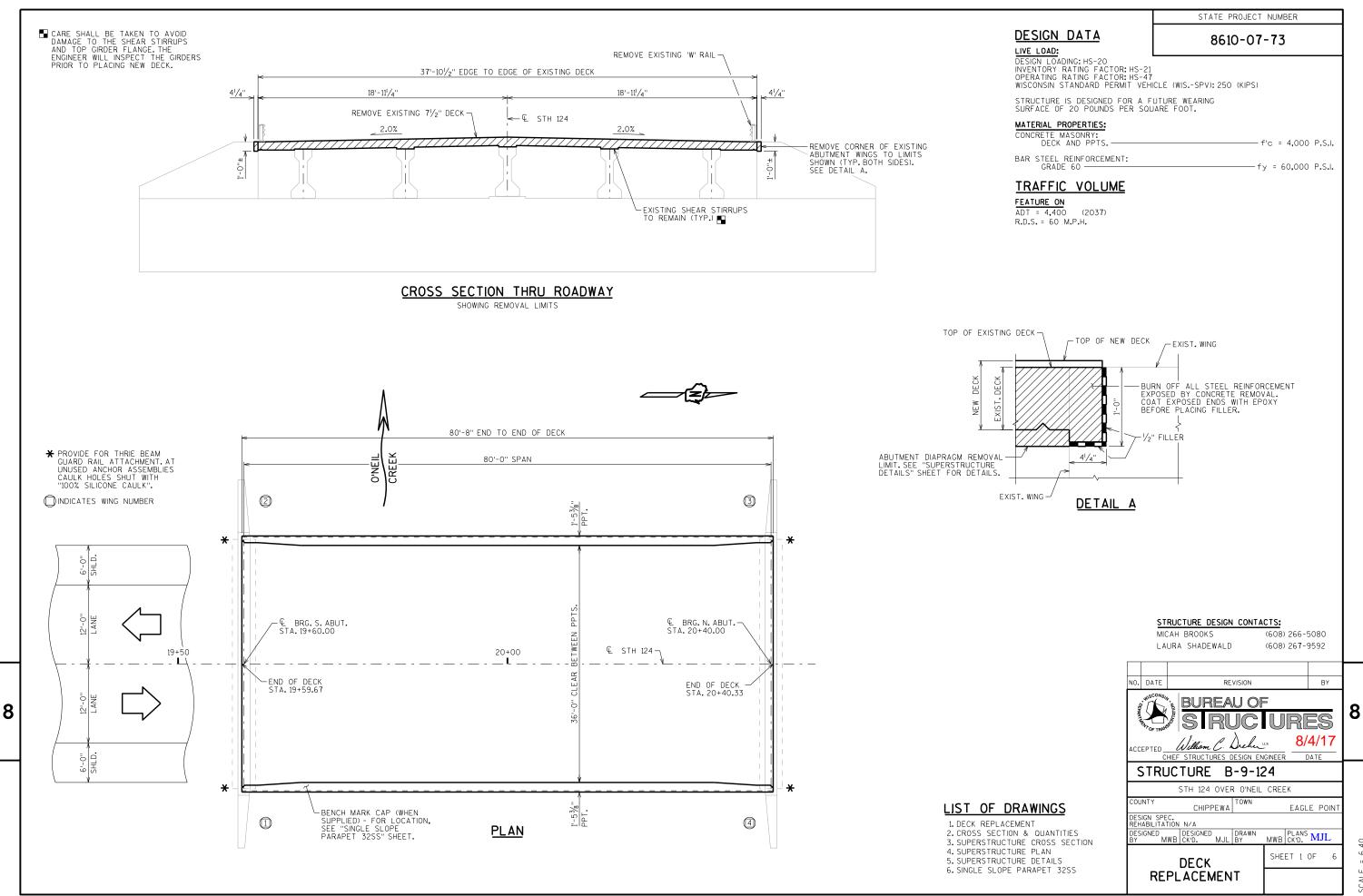
MATCH EXISTING -TOP OF PPT.

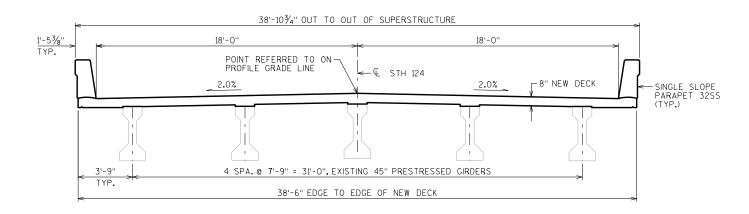
S419 -

B.F. ABUT. BACKWALL

CALE = 1.33

8





E. BRG. S. ABUT.

STA. 19+E

STA. 19+E

STA. 19+E

STA. 19+E

STA. 19+E

STA. 20+4

STA. 20+4

STA. 20+4

EL. 982.82

C. 982.82

PROFILE GRADE LINE - STH 124

LOOKING NOITH

CROSS SECTION THRU ROADWAY

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0600	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 20+00	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	101
502.3200	PROTECTIVE SURFACE TREATMENT	SY	323
502.3210	PIGMENTED SURFACE SEALER	SY	67
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	22,930
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4
	NON-BID ITEMS		
	FILLER	SIZE	1/2"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "SUPERSTRUCTURE CROSS SECTION" SHEET.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

ANY EXCAVATION NECESSARY TO COMPLETE THE CONSTRUCTION OF THE NEW DECK SHALL BE CONSIDERED INCIDENTAL TO "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 20+00."

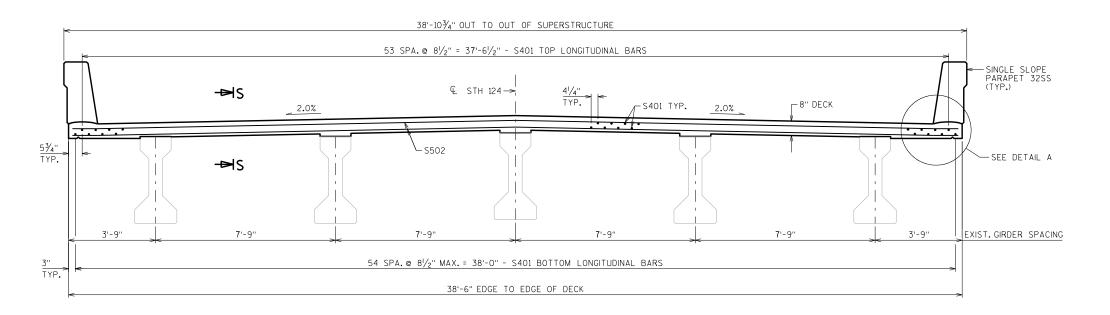
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

NO.	DATE	RE	VISION			BY						
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION												
STRUCTURE B-9-124												
			DRAWN By	MWB	PLANS CK'D.	MJL						
CROSS SECTION SHEET 2												
	&	QUANTITIE	.S									

8

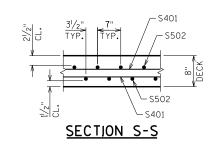
STATE PROJECT NUMBER

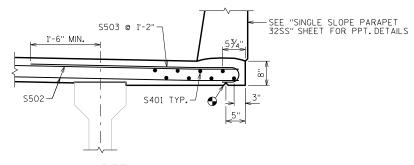
8610-07-73



CROSS SECTION THRU ROADWAY

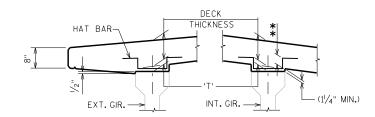
LOOKING NORTH





DETAIL A TYP. BOTH EDGES OF DECK

→ ¾4" V-GROOVE (TYP.) TERMINATE 6"
FROM F.F. OF ABUTMENT DIAPHRAGMS.



DECK HAUNCH DETAIL

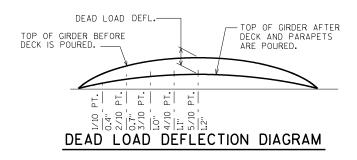
IF 11/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR, ** IF 3" MINIMUM DECK EMBEDMENT OF HAT BAR CANNOT BE OBTAINED.

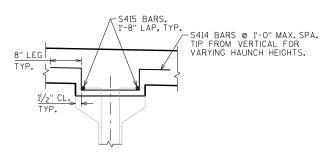
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT & OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

- TOP OF DECK ELEV. AT FINAL GRADE
 TOP OF GIRDER ELEVATION
 + DEAD LOAD DEFLECTION
 DECK THICKNESS

- = HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF $2\,\%$ WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".





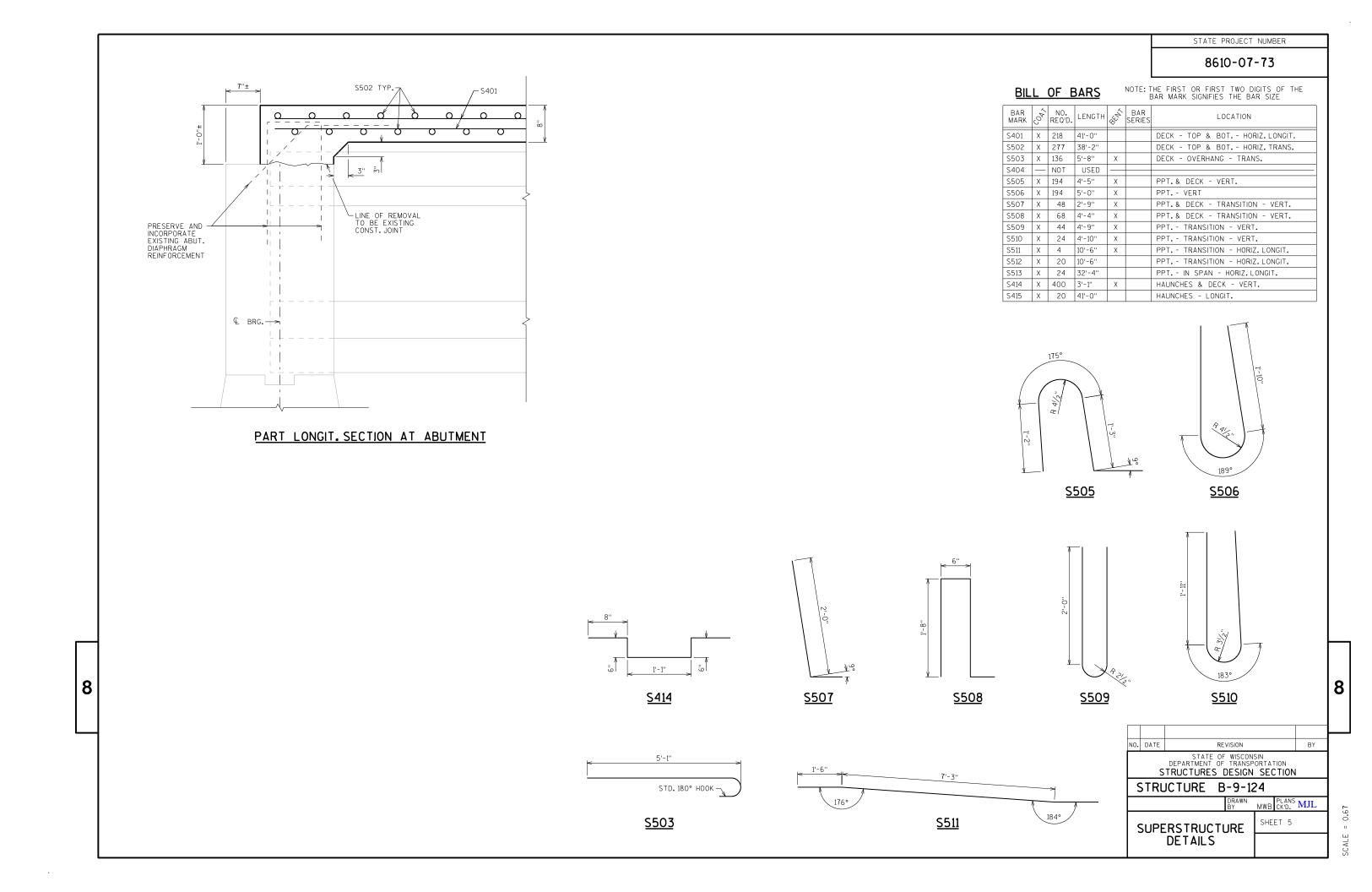
GIRDER HAUNCH DETAIL

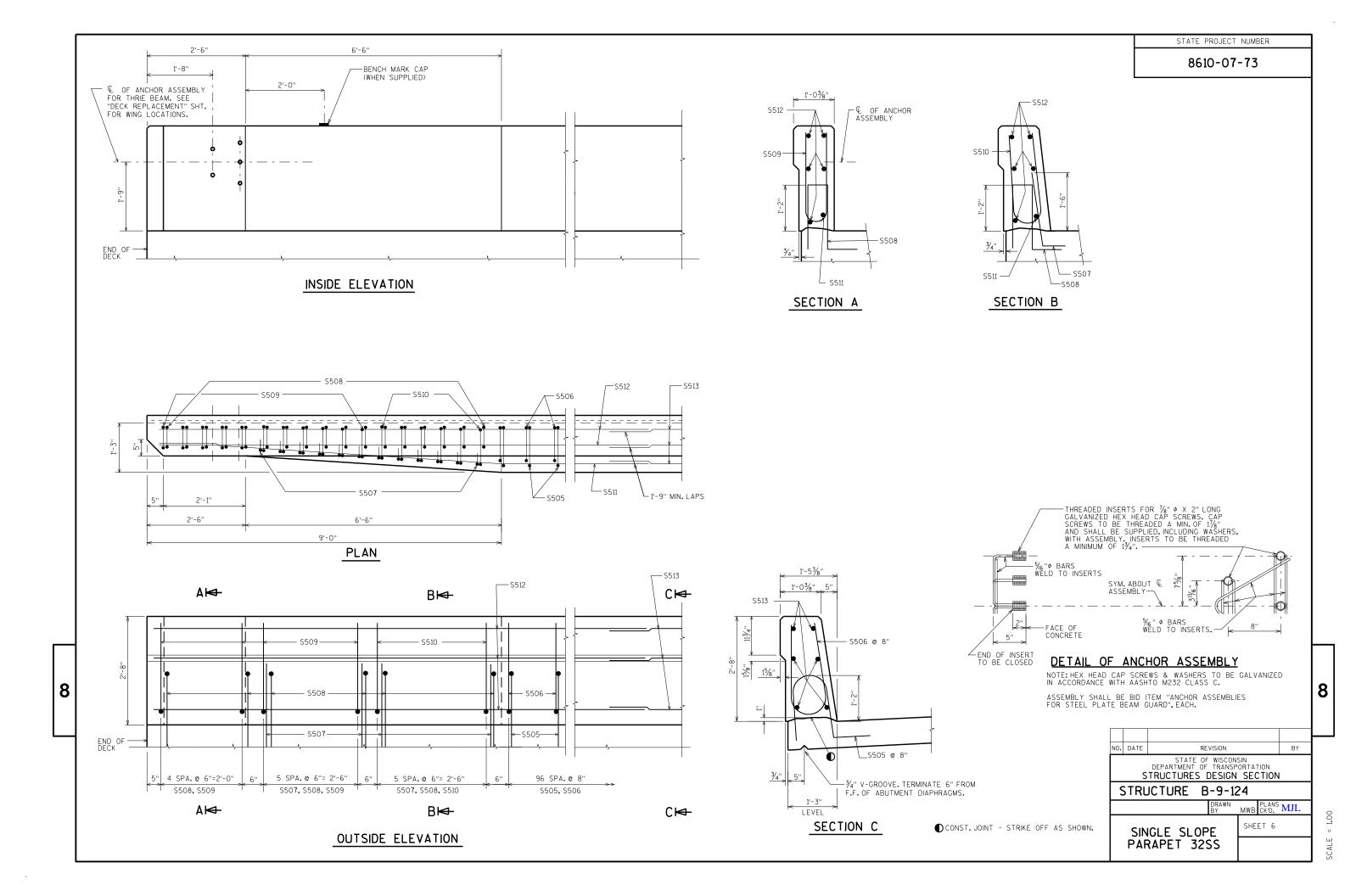
NO.	DATE	RE	VISION			BY						
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE B-9-124												
			DRAWN BY	MWB	PLANS CK'D.	MJL						
SUPERSTRUCTURE SHEET 3												
	CRO	SS SECTI	ON									

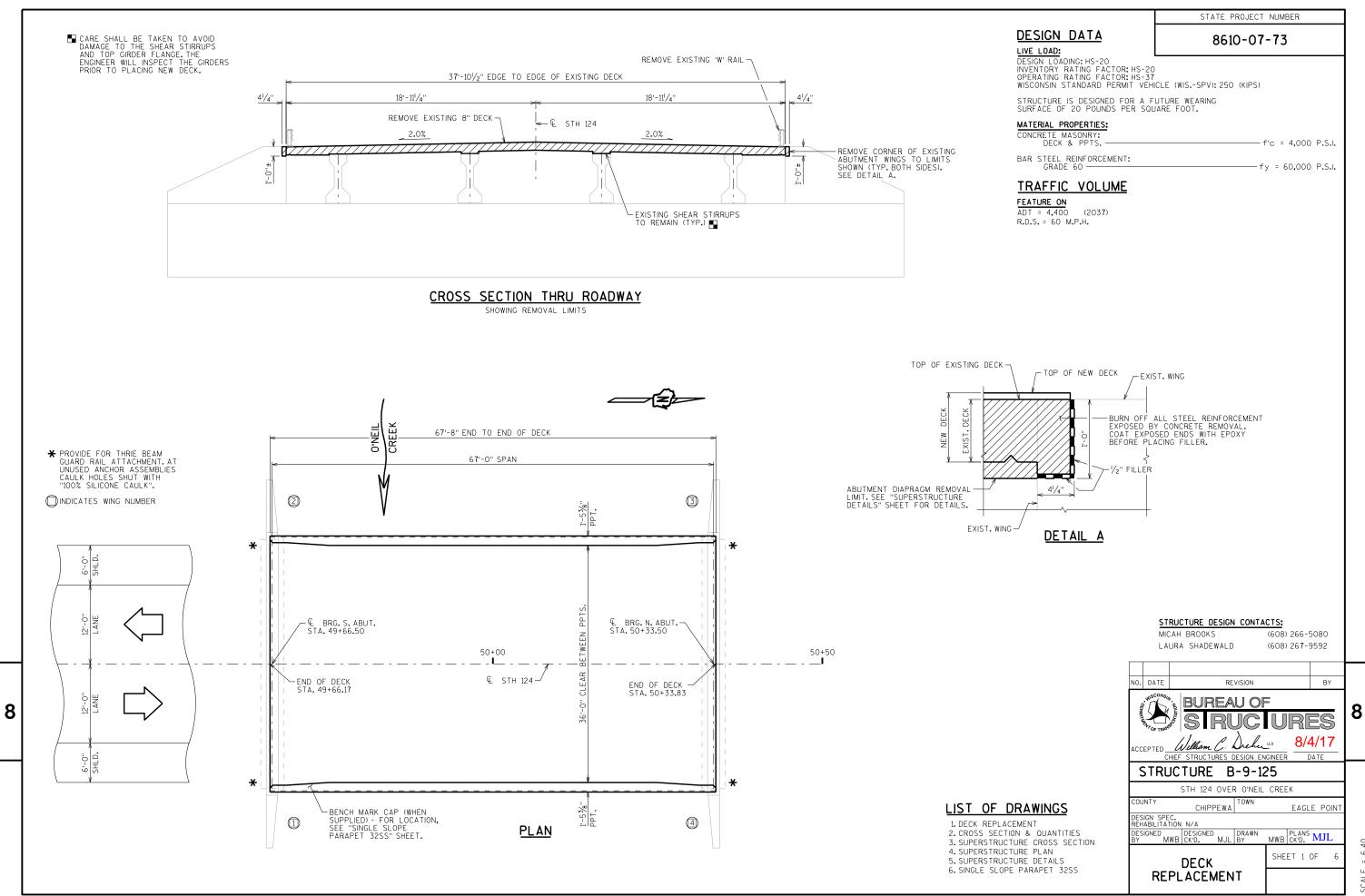
8

8

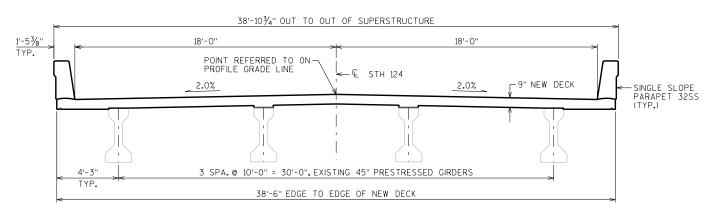
STATE PROJECT NUMBER 8610-07-73 INDICATES GIRDER NUMBER 3" MIN. DECK EMBEDMENT REQUIRED. * MEASURED FROM END OF GIRDER 79 SPA. @ 1'-0" = 79'-0" - S414 HAUNCH BARS (TYP. OVER EACH GIRDER) ◆ 80'-8" END TO END OF DECK 138 SPA. @ 7" MAX. = 80'-2" - S502 TOP TRANSVERSE BARS 67 SPA. @ 1'-2" = 78'-2" - S503 HOOKED OVERHANG BARS (TYP. BOTH SIDES) S503 @ 1'-2" LAP WITH TOP S502 BARS € BRG. S. ABUT.--€ BRG.N.ABUT. END OF DECK--END OF DECK S401 TOP & BOT.LONGIT.BARS.SEE "SUPERSTRUCTURE CROSS SECTION" SHEET FOR DETAILS. 1'-8" MIN. LAPS -__ € STH 124 -S502 TOP & BOT.TRANSVERSE BARS. SEE "SUPERSTRUCTURE CROSS SECTION" SHEET FOR DETAILS. PAVING NOTCH-- PAVING NOTCH TYP. S503 @ 1'-2" -LAP WITH TOP S502 BARS S513 IN PPT.--S513 IN PPT. 1'-9" MIN. LAP-137 SPA. @ 7" MAX. = 79'-7" - S502 BOTTOM TRANSVERSE BARS 96 SPA. @ 8" MAX. = 62'-8" - S505, S506 IN PPT. <u>PL AN</u> TOP OF DECK ELEVATIONS NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION € BRG. S. ABUT. 9/10 N. ABUT. 1/10 2/10 3/10 4/10 5/10 6/10 7/10 8/10 982.57 982.53 L EOD 982.68 982.66 982.63 982.61 982.59 982.55 982.51 982.48 982.46 STRUCTURE B-9-124 GIRDER 1 982.73 982.71 982.68 982.66 982.64 982.58 982.53 982.51 982.62 982.60 982.56 GIRDER 2 982.88 982.75 982.71 982.86 982.84 982.73 982.69 982.67 MWB CK'D. MJL GIRDER 3 983.04 983.02 982.99 982.97 982.95 982.93 982.91 982.89 982.87 982.84 982.82 GIRDER 4 982.88 982.86 982.84 982.82 982.80 982.77 982.75 982.73 982**.7**1 982.69 982.67 SHEET 4 SUPERSTRUCTURE GIRDER 5 982.73 982.71 982.68 982.66 982.64 982.62 982.60 982.58 982.56 982.53 982.51 PLAN REOD 982.68 982.66 982.63 982.61 982.59 982.57 982.55 982.53 982.51 982.48 982.46







8610-07-73



CROSS SECTION THRU ROADWAY

LOOKING NORTH

EL. 993.03 EL. 993.03 EL. 993.03 EL. 993.03 EL. 993.03 EL. 993.23 EL. 993.23 EL. 993.23

PROFILE GRADE LINE - STH 124

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0600	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 50+00	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	93
502.3200	PROTECTIVE SURFACE TREATMENT	SY	2 7 1
502.3210	PIGMENTED SURFACE SEALER	SY	56
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	19,840
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4
	NON-BID ITEMS		
	FILLER	SIZE	1/2"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

BEVEL EXPOSED EDGES OF CONCRETE $rac{3}{4}$ " UNLESS OTHERWISE NOTED.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "SUPERSTRUCTURE CROSS SECTION" SHEET.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

ANY EXCAVATION NECESSARY TO COMPLETE THE CONSTRUCTION OF THE NEW DECK SHALL BE CONSIDERED INCIDENTAL TO "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA.50+00."

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

NO.	DATE	REVISION BY						
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
5	STRUCTURE B-9-125							
			MWB CK'D.	MJL				
	CRO	SS SECTION	SHEET 2					
	&	QUANTITIE						

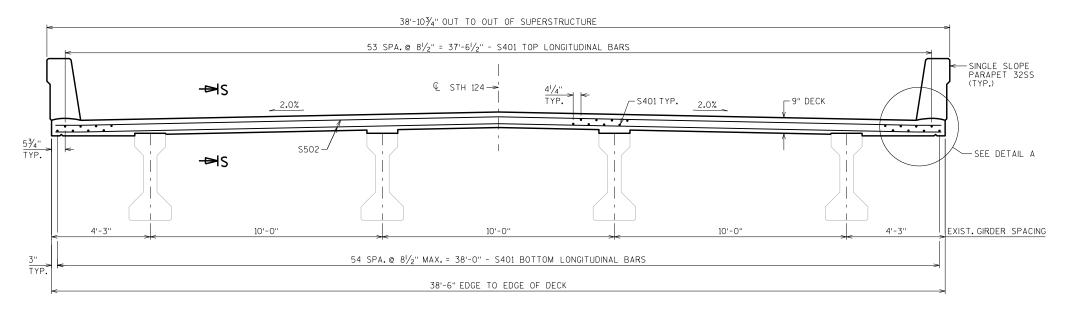
8

8

AIF = 1.00

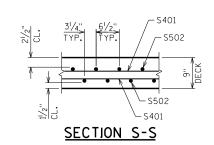
STATE PROJECT NUMBER

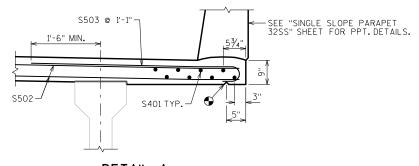
8610-07-73



CROSS SECTION THRU ROADWAY

LOOKING NORTH

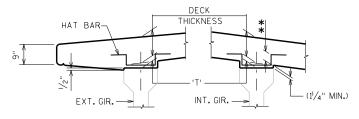




DETAIL A

(TYP. BOTH EDGES OF DECK)

→ ¾4" V-GROOVE (TYP.) TERMINATE 6"
FROM F.F. OF ABUTMENT DIAPHRAGMS.



DECK HAUNCH DETAIL

IF 11/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENCINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR, $\star\star$ if 3" minimum deck embedment of hat bar cannot be obtained.

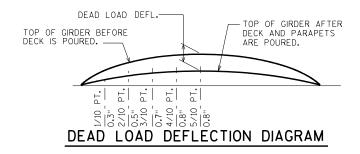
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT $\widehat{\mathbb{Q}}$ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

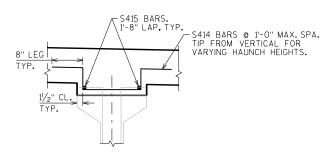
- TOP OF DECK ELEV. AT FINAL GRADE
 TOP OF GIRDER ELEVATION
 + DEAD LOAD DEFLECTION
 DECK THICKNESS

- = HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF $2\frac{3}{4}$ " WAS USED IN THE QUANTITY

"CONCRETE MASONRY BRIDGES".





GIRDER HAUNCH DETAIL

						I		
NO.	DATE	RE	VISION			BY		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
S	STRUCTURE B-9-125							
			MWB	PLANS CK'D.	MJL			
SUPERSTRUCTURE					ET 3			
	CROSS SECTION							

8

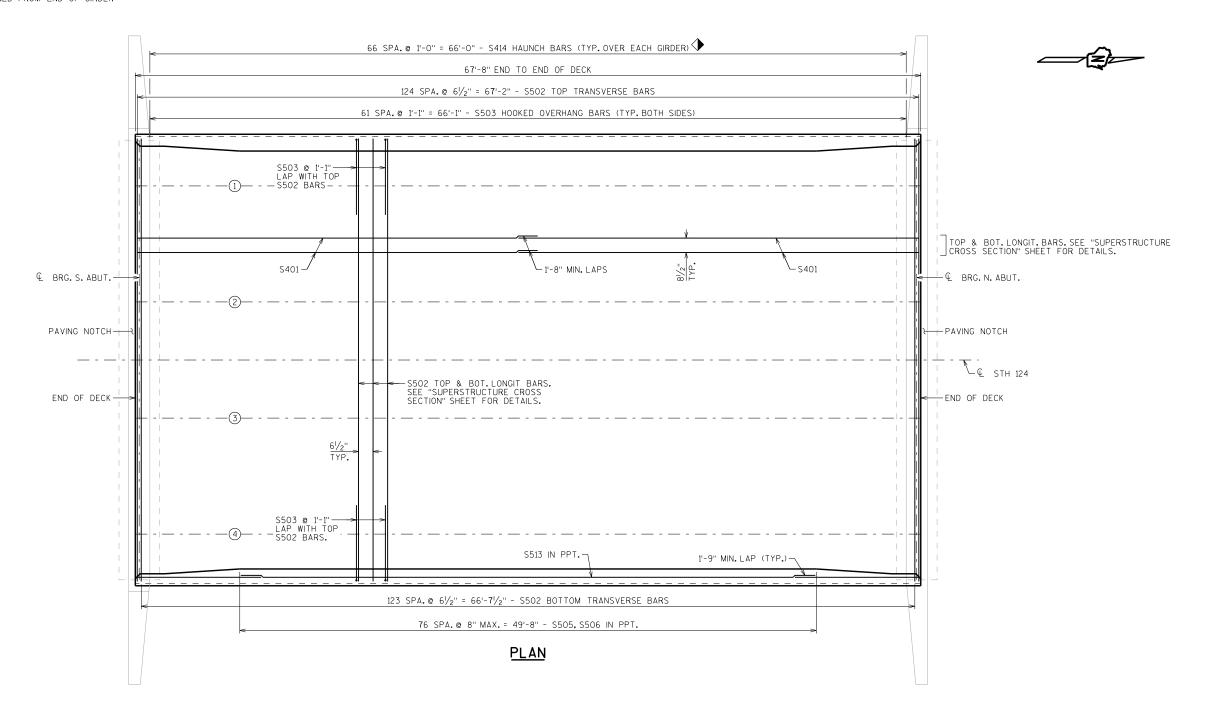
8

STATE PROJECT NUMBER

8610-07-73

O INDICATES GIRDER NUMBER

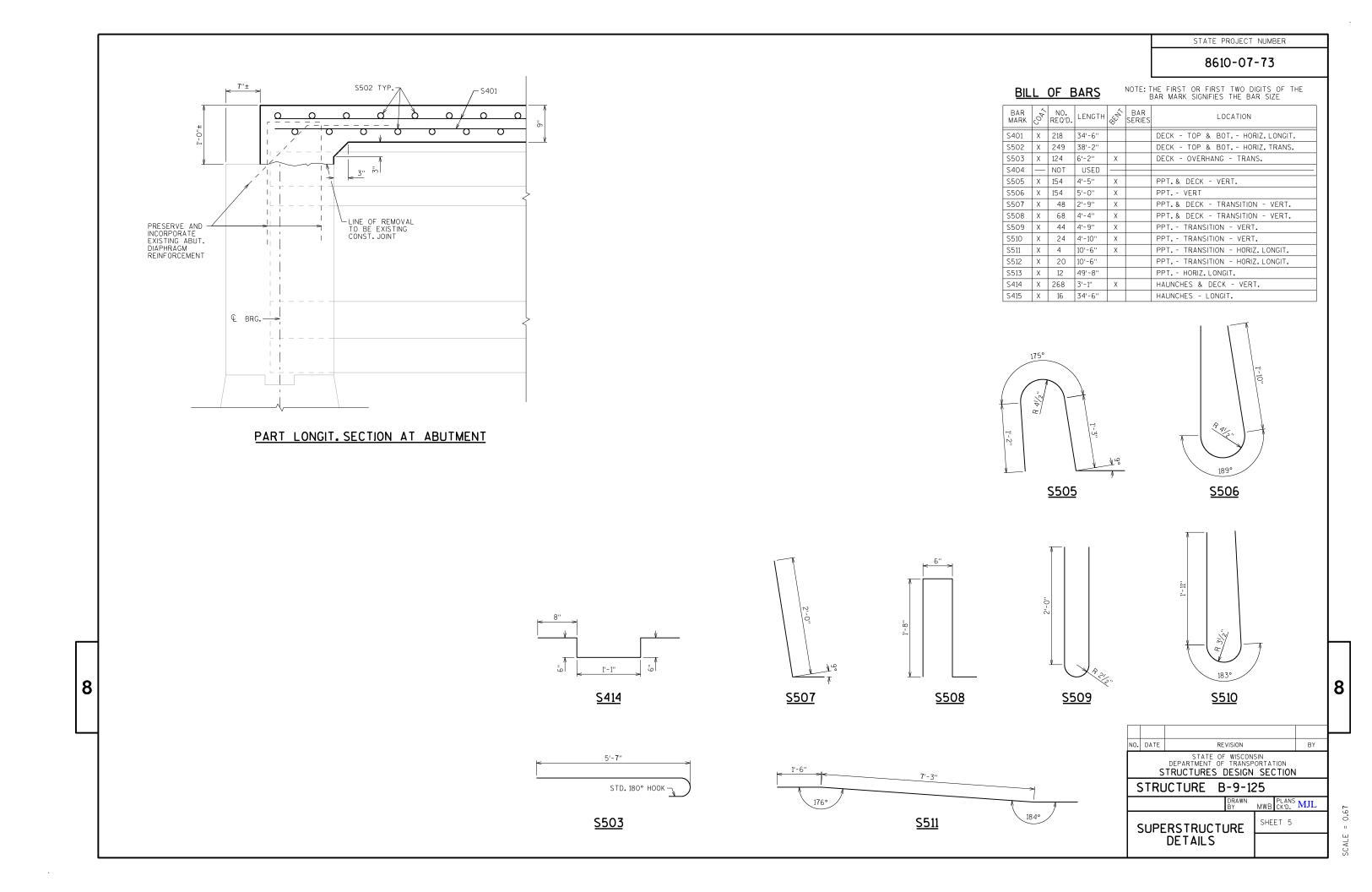
3" MIN. DECK EMBEDMENT REQUIRED.
* MEASURED FROM END OF GIRDER

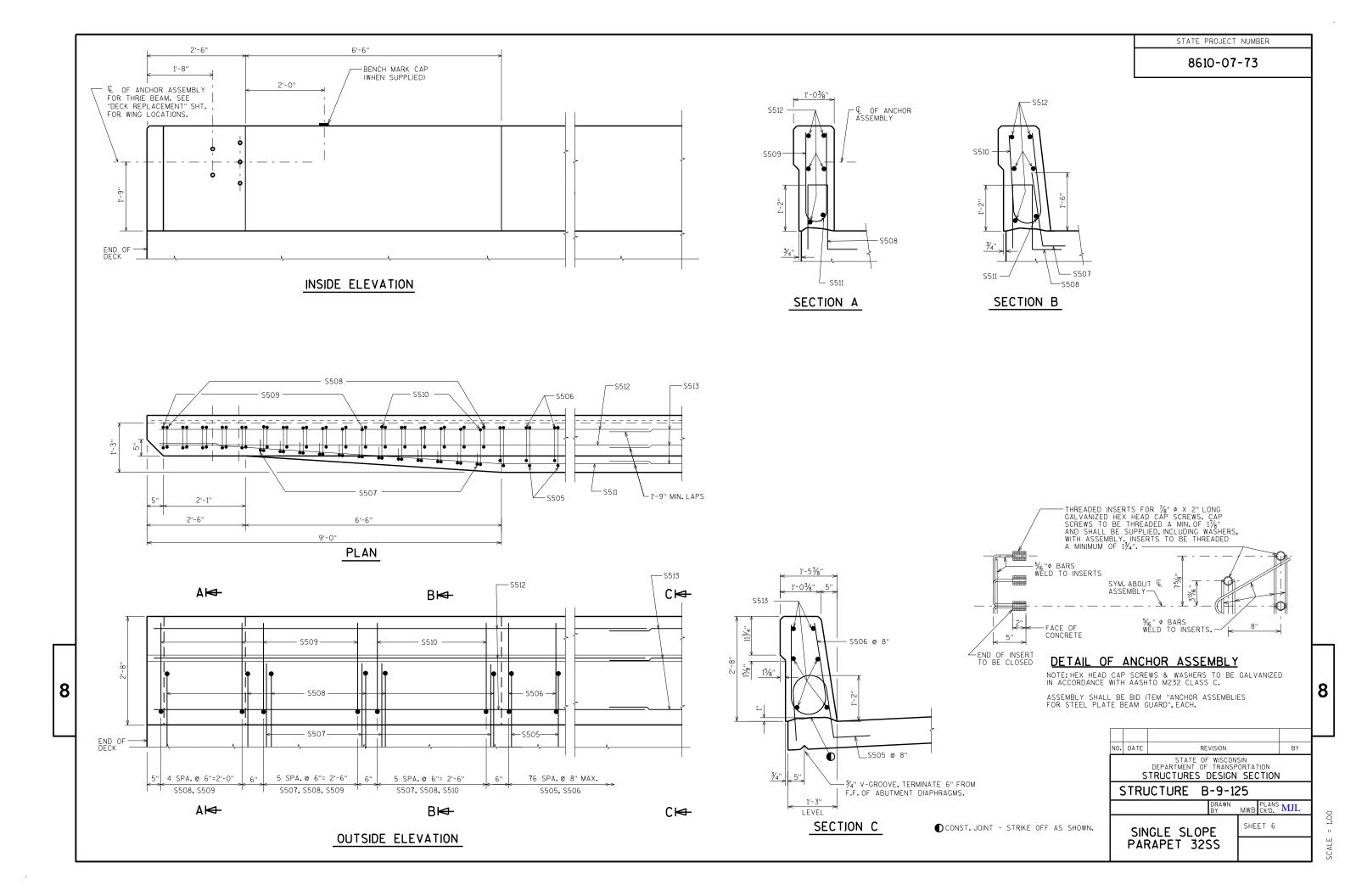


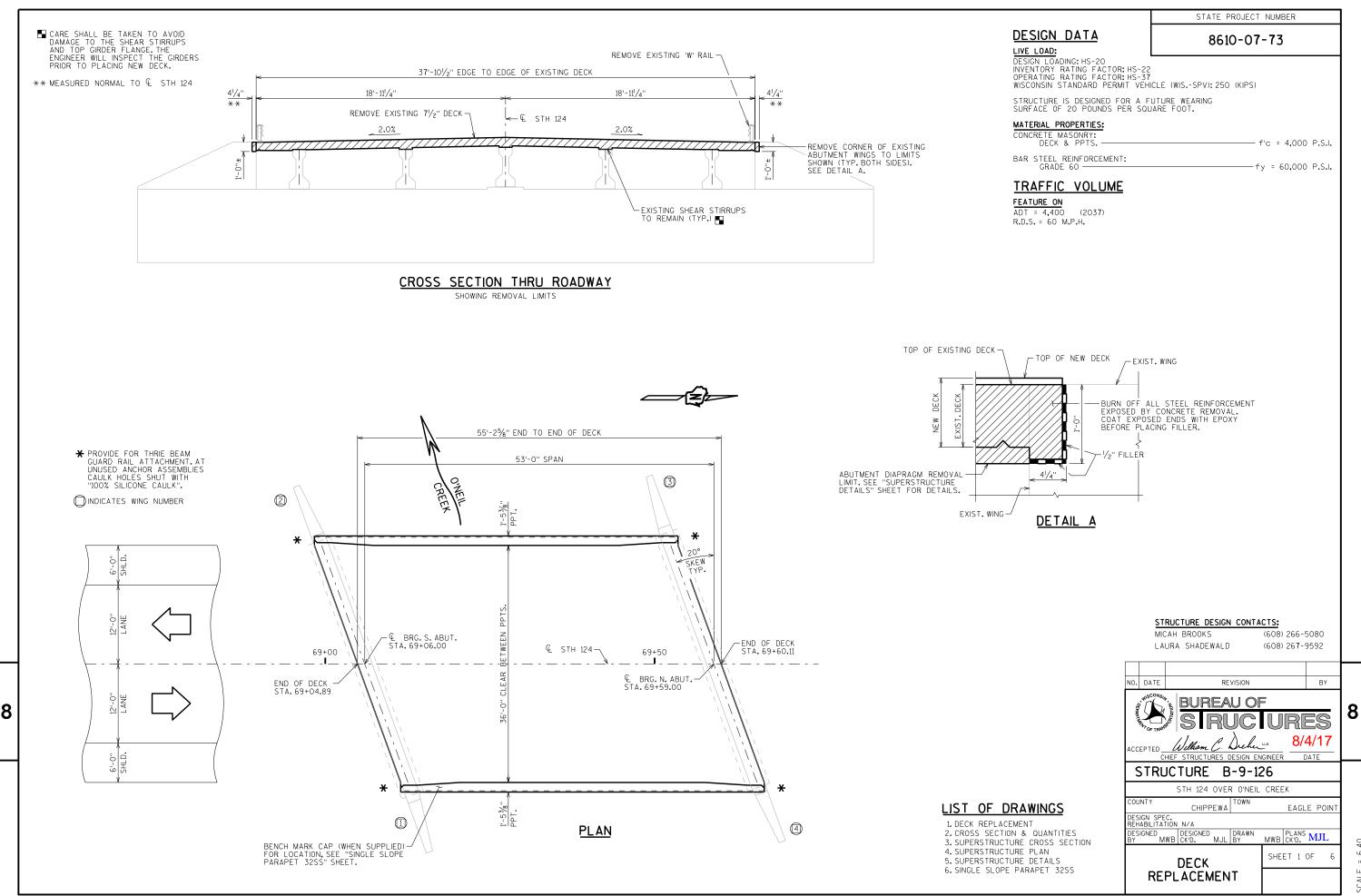
TOP OF DECK ELEVATIONS

		€ BRG. S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	€ BRG. N. ABUT.
Ì	L EOD	992.67	992.69	992.71	992.73	992.75	992.77	992.79	992.81	992.83	992.85	992.87
	GIRDER 1	992.73	992.75	992.77	992.79	992.81	992.83	992.85	992.87	992.89	992.91	992.93
	GIRDER 2	992.93	992.95	992.97	992.99	993.01	993.03	993.05	993.07	993.09	993.11	993.13
	GIRDER 3	992.93	992.95	992.97	992.99	993.01	993.03	993.05	993.07	993.09	993.11	993.13
	GIRDER 4	992.73	992.75	992.77	992.79	992.81	992.83	992.85	992.87	992.89	992.91	992.93
Į	R EOD	992.67	992.69	992.71	992 .7 3	992 .7 5	992.77	992 .7 9	992.81	992.83	992.85	992.87

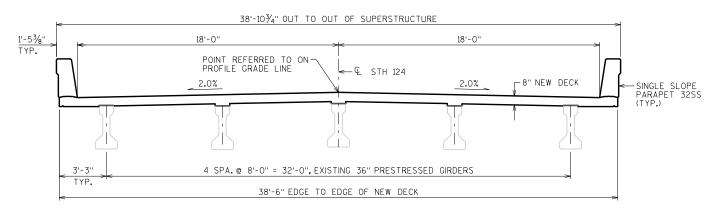
NO.	DATE	RI	EVISION			BY		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
[5	STRUCTURE B-9-125							
DRAWN BY					PLANS CK'D.	MJL		
9	SUPE	RSTRUCT	SHE	ET 4				
		PLAN						





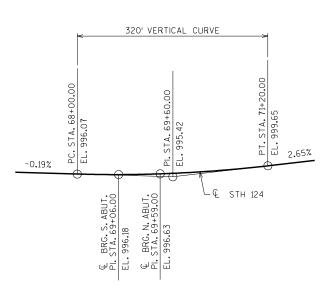


8610-07-73



CROSS SECTION THRU ROADWAY

LOOKING NORTH



PROFILE GRADE LINE - STH 124

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT. BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "SUPERSTRUCTURE CROSS SECTION" SHEET.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

ANY EXCAVATION NECESSARY TO COMPLETE THE CONSTRUCTION OF THE NEW DECK SHALL BE CONSIDERED INCIDENTAL TO "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA.69+32.50."

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

9	2
(J

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0600	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 69+32.50	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	68
502.3200	PROTECTIVE SURFACE TREATMENT	SY	221
502.3210	PIGMENTED SURFACE SEALER	SY	46
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	16,530
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4
	NON-BID ITEMS		
	FILLER	SIZE	1/2"

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-9-126

DRAWN MWB CK'D. MJL

CROSS SECTION
& QUANTITIES

0

8

100 I

STATE PROJECT NUMBER 38'-103/4" OUT TO OUT OF SUPERSTRUCTURE 8610-07-73 56 SPA.@ 8" = 37'-4" - S401 TOP LONGITUDINAL BARS -SINGLE SLOPE PARAPET 32SS € STH 124-₽S TYP. S502-_S401 TYP. ⊢8" DECK 2.0%

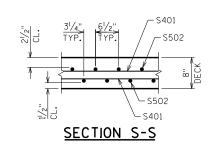
CROSS SECTION THRU ROADWAY

57 SPA. @ 8" = 38'-0" - S401 BOTTOM LONGITUDINAL BARS

38'-6" EDGE TO EDGE OF DECK

8'-0"

LOOKING NORTH

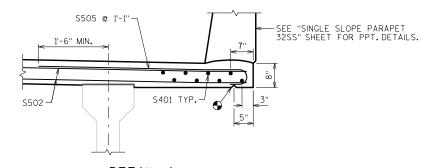


→|S

8'-0"

7" TYP.

TYP.



- SEE DETAIL A

EXIST. GIRDER SPACING

DETAIL A (TYP. BOTH EDGES OF DECK) → ¾4" V-GROOVE (TYP.) TERMINATE 6"
FROM F.F. OF ABUTMENT DIAPHRAGMS.

(1¹/₄" MIN.) INT. GIR. EXT. GIR. ->

DECK HAUNCH DETAIL

IF 1/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD, NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR,

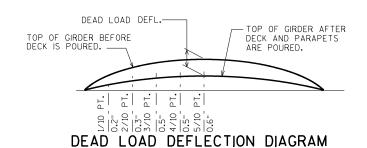
** IF 3" MINIMUM DECK EMBEDMENT OF HAT BAR CANNOT BE OBTAINED.

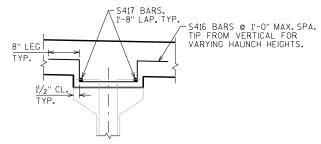
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT \P OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS

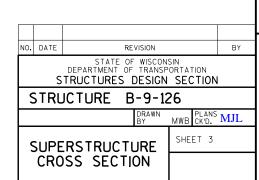
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 25/8" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

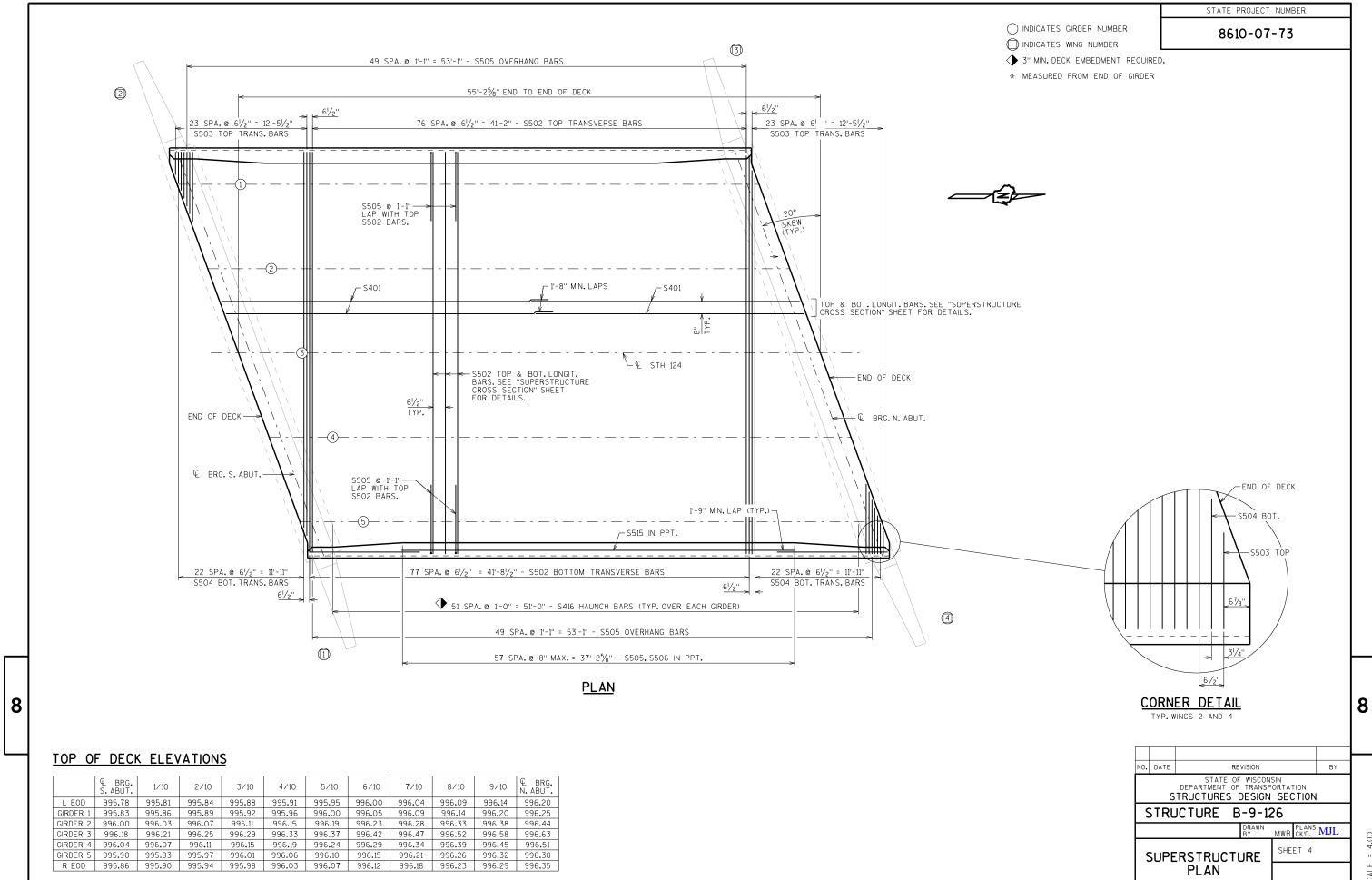


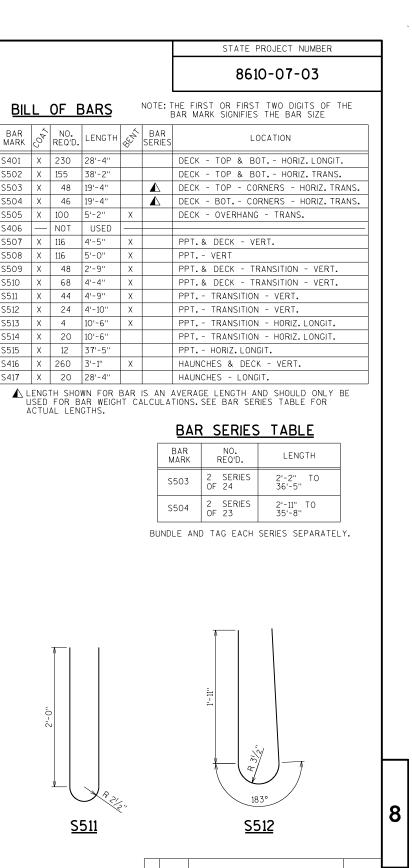


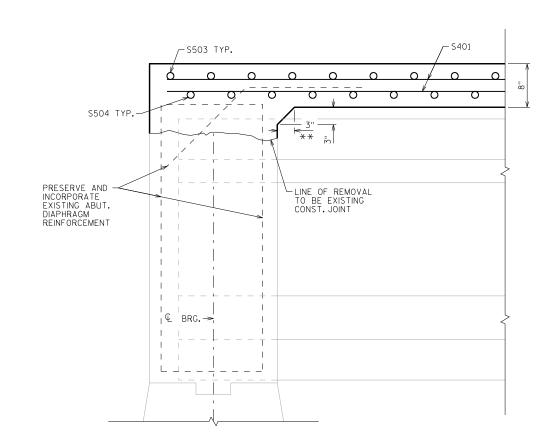
GIRDER HAUNCH DETAIL



8

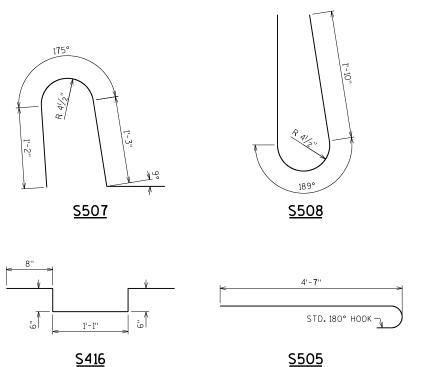


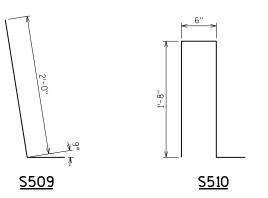




PART LONGIT. SECTION AT ABUTMENT

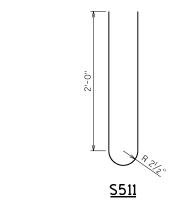
** DIMENSION IS TAKEN NORMAL TO & SUBSTRUCTURE UNITS





7'-3"

<u>S513</u>



184°

BILL OF BARS

S401 X 230 28'-4"

S502 X 155 38'-2"

S503 X 48 19'-4" S504 X 46 19'-4"

S505 X 100 5'-2"

S406 - NOT USED S507 X 116 4'-5"

S508 X 116 5'-0"

S509 X 48 2'-9"

S510 X 68 4'-4"

S512 X 24 4'-10"

S514 X 20 10'-6"

S515 X 12 37'-5"

S416 X 260 3'-1"

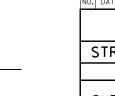
S417 X 20 28'-4"

44 4'-9"

4 10'-6"

S511 X

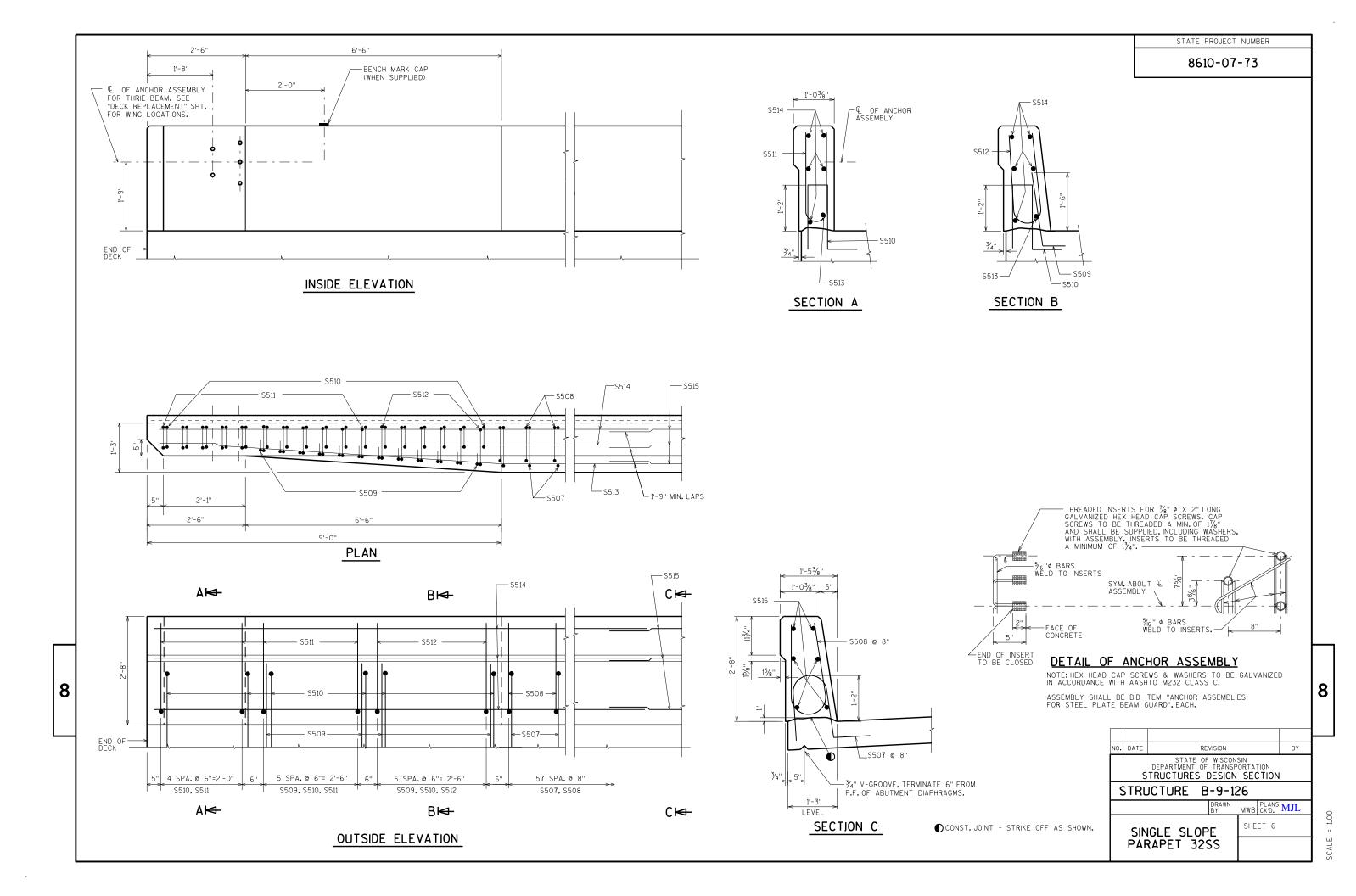
S513 X

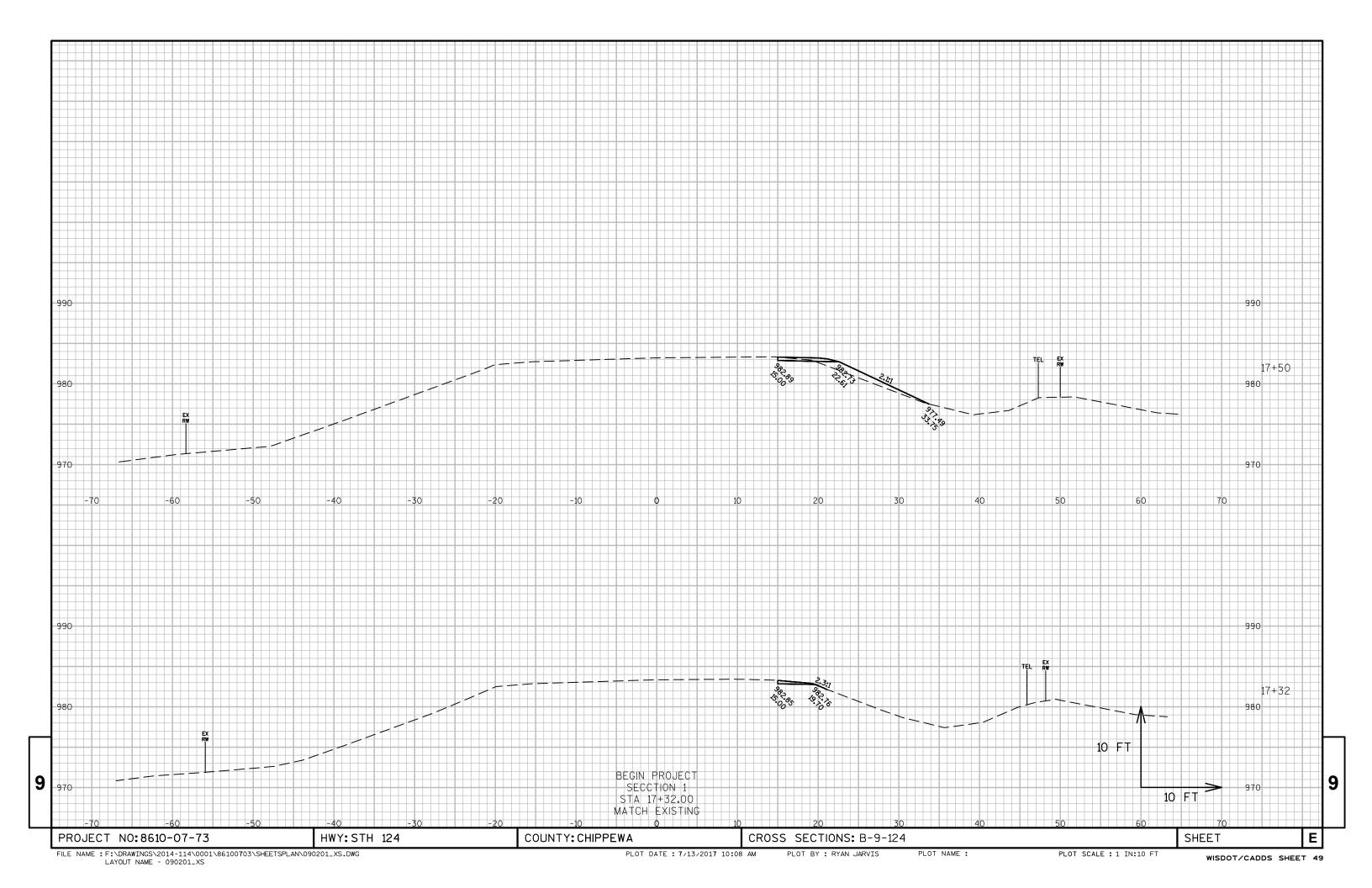


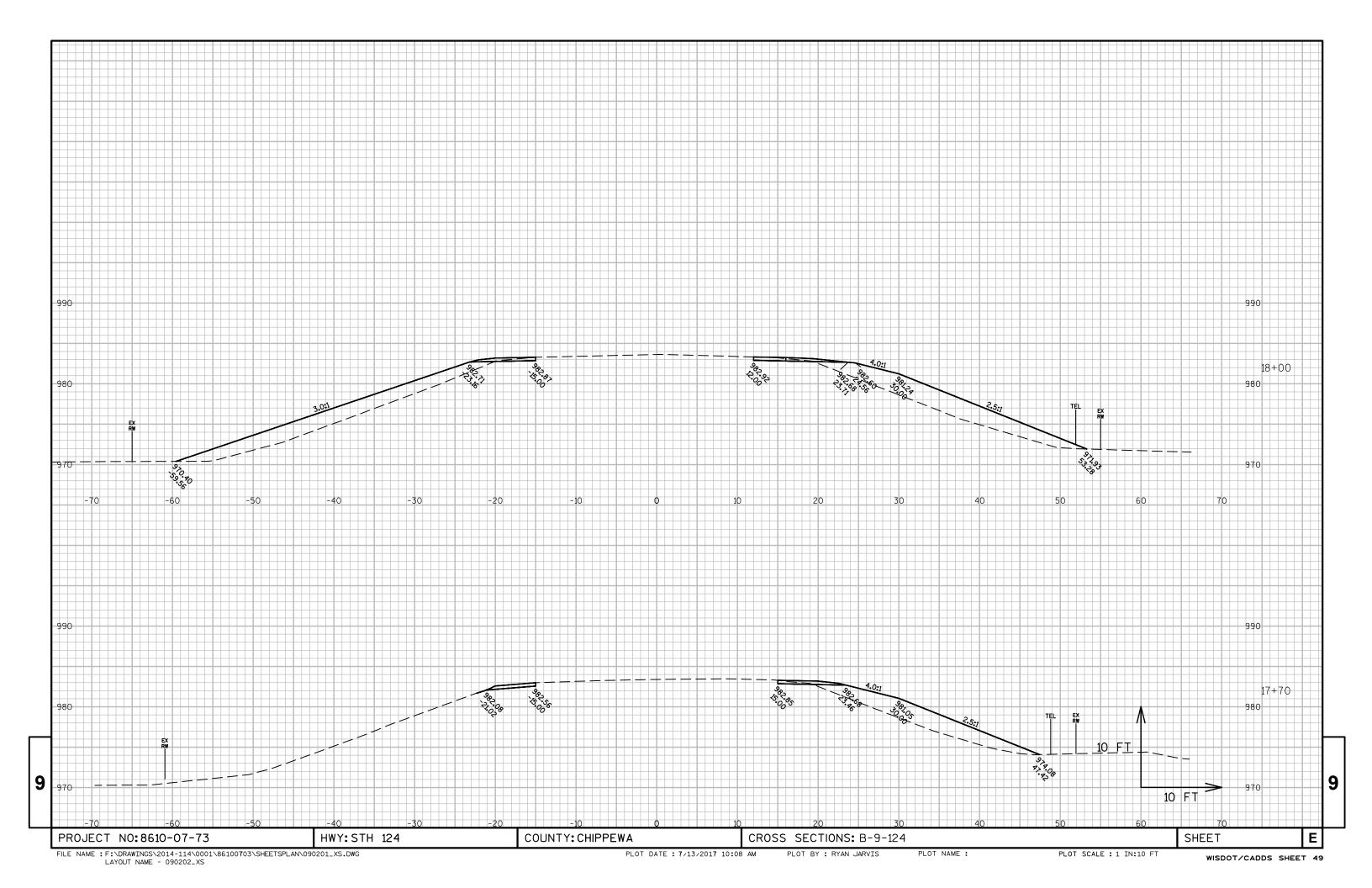
NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-9-126

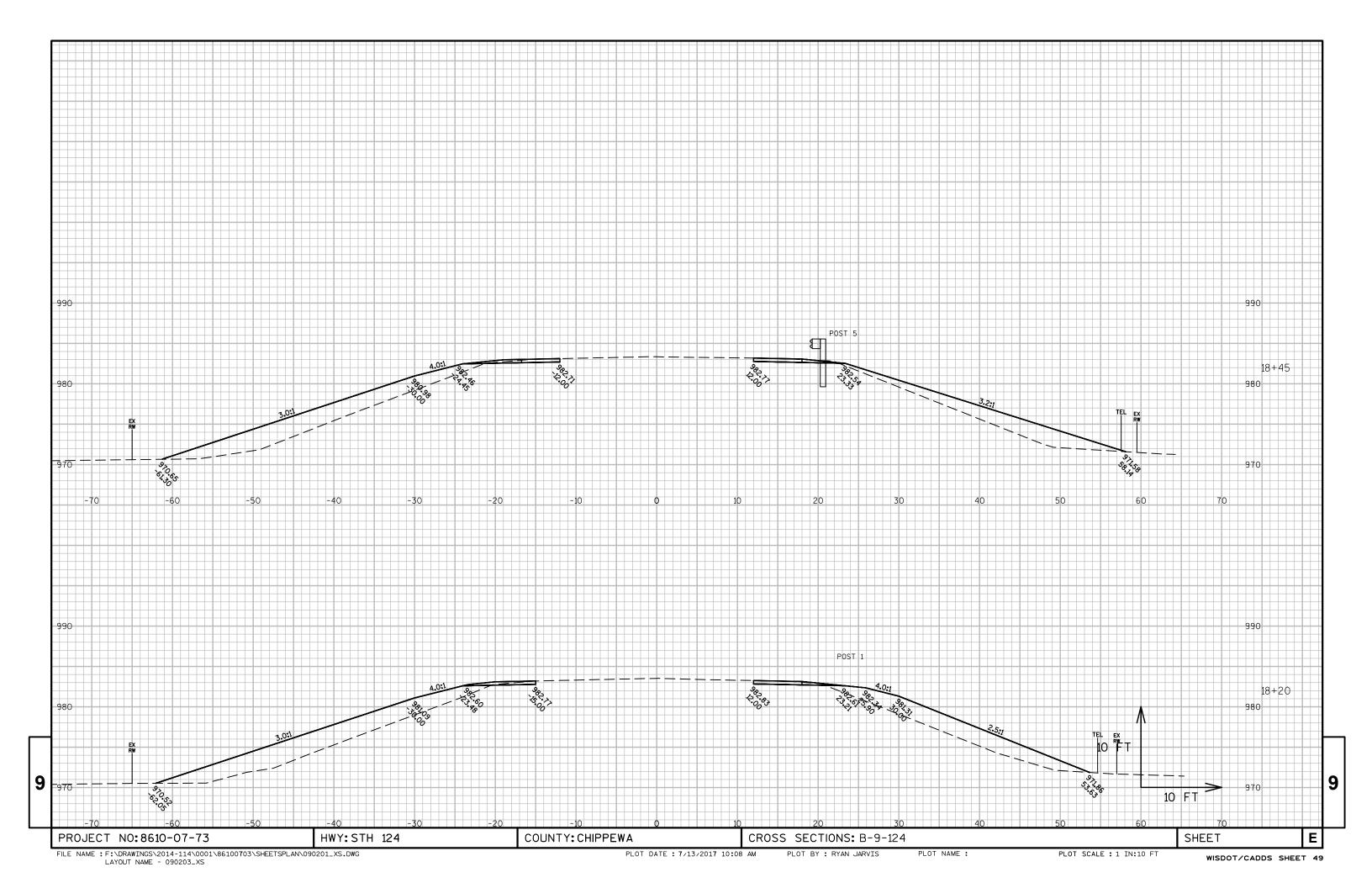
SUPERSTRUCTURE DETAILS

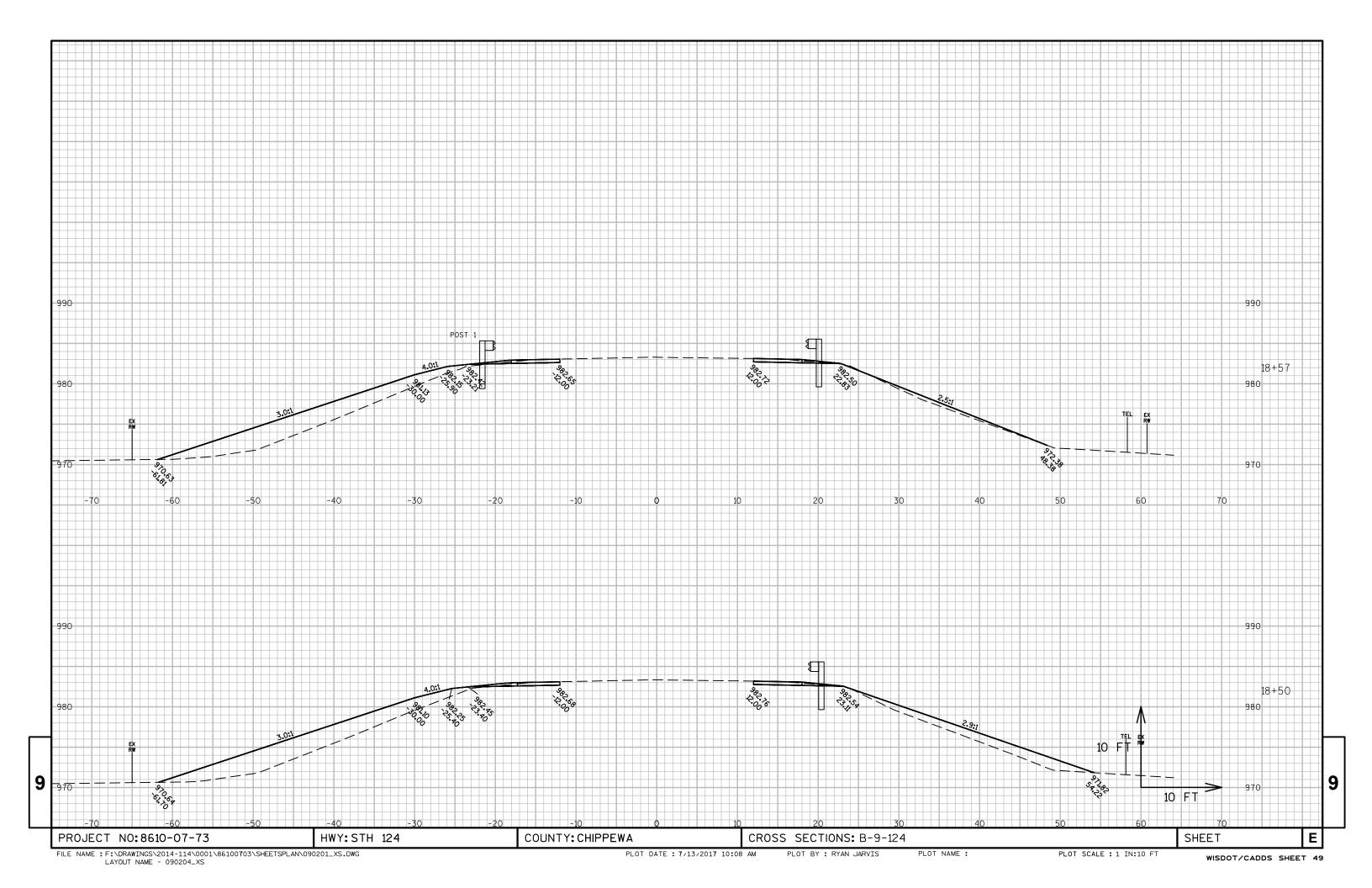
MWB CK'D. MJL SHEET 5

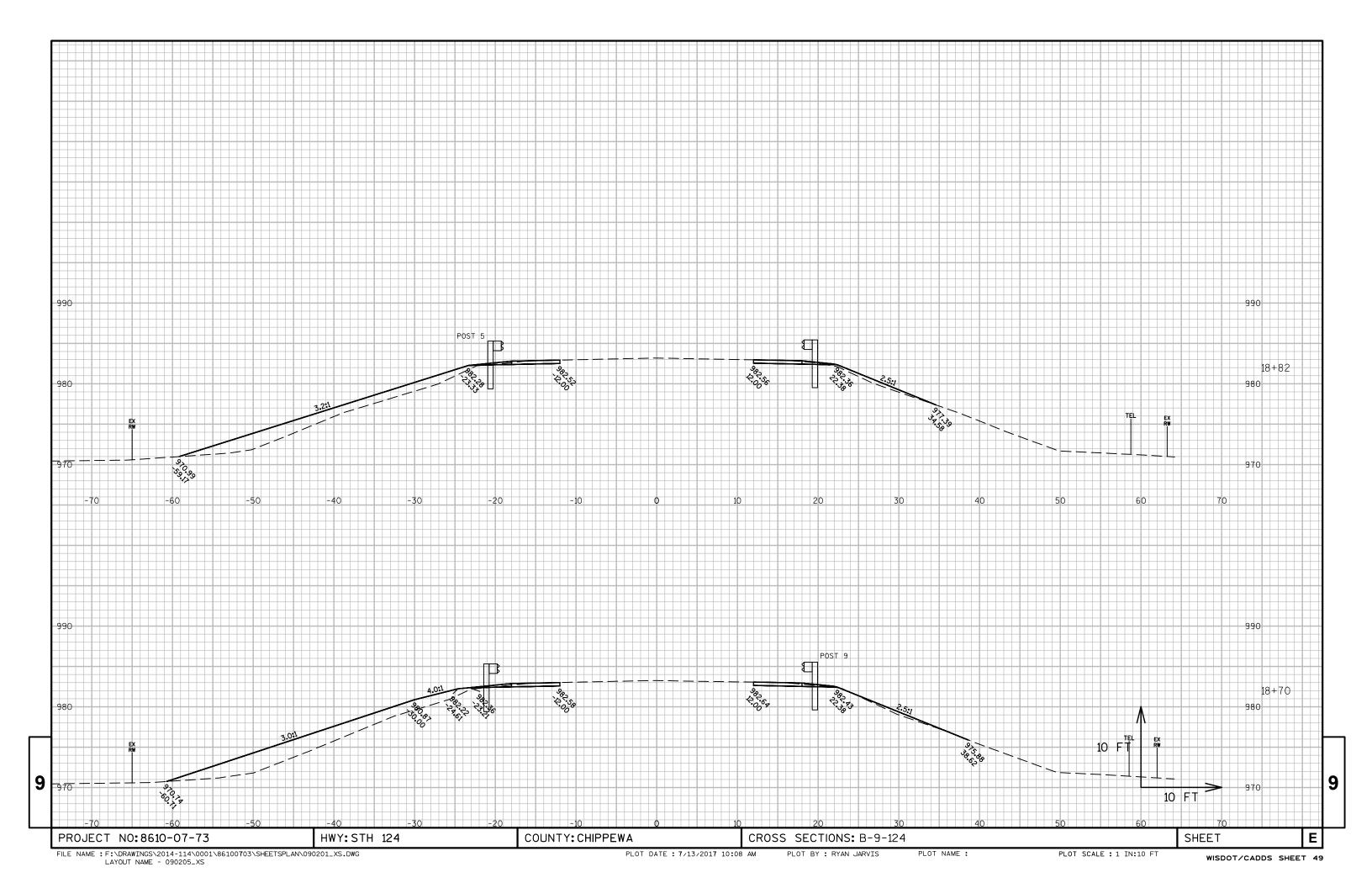


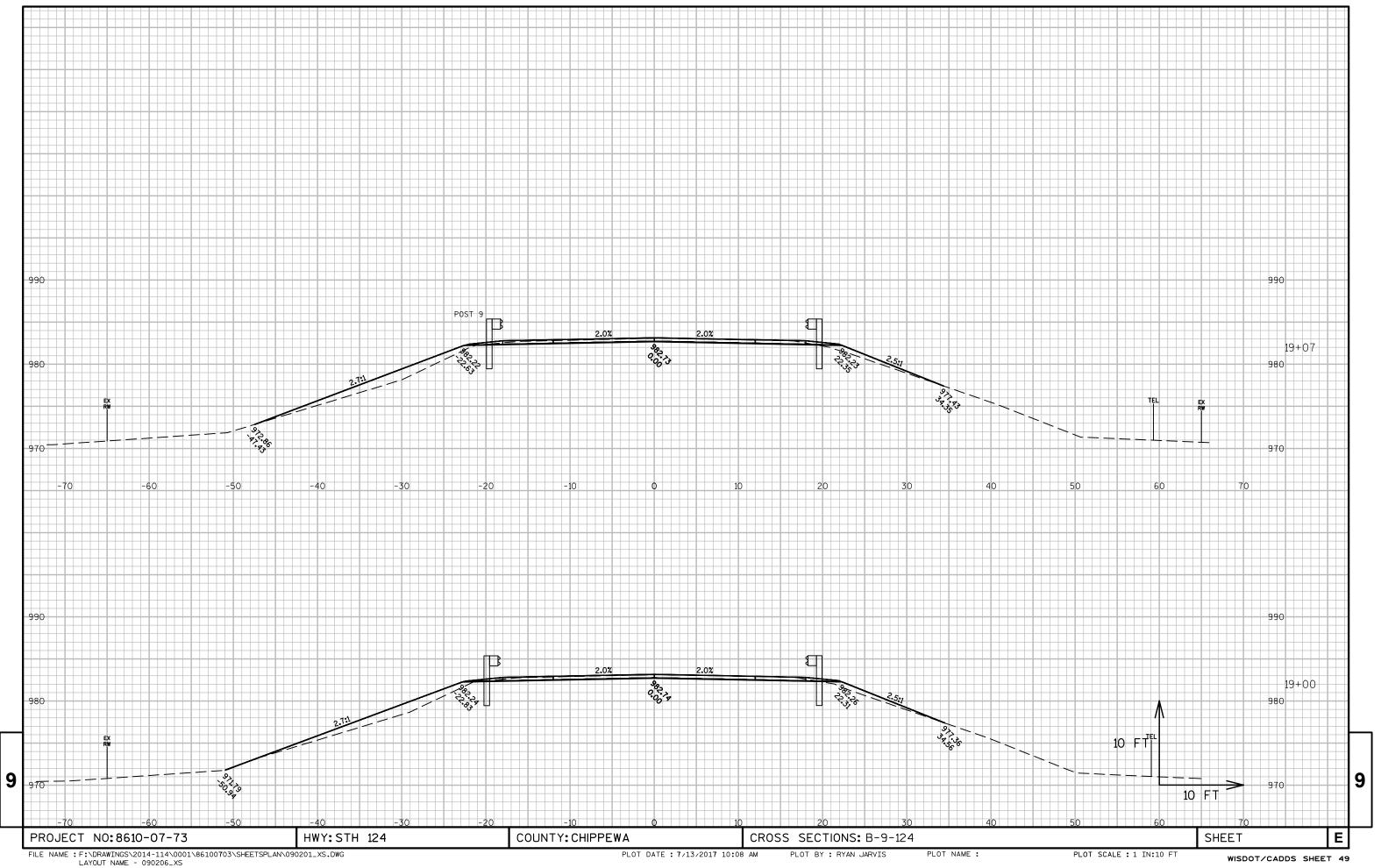


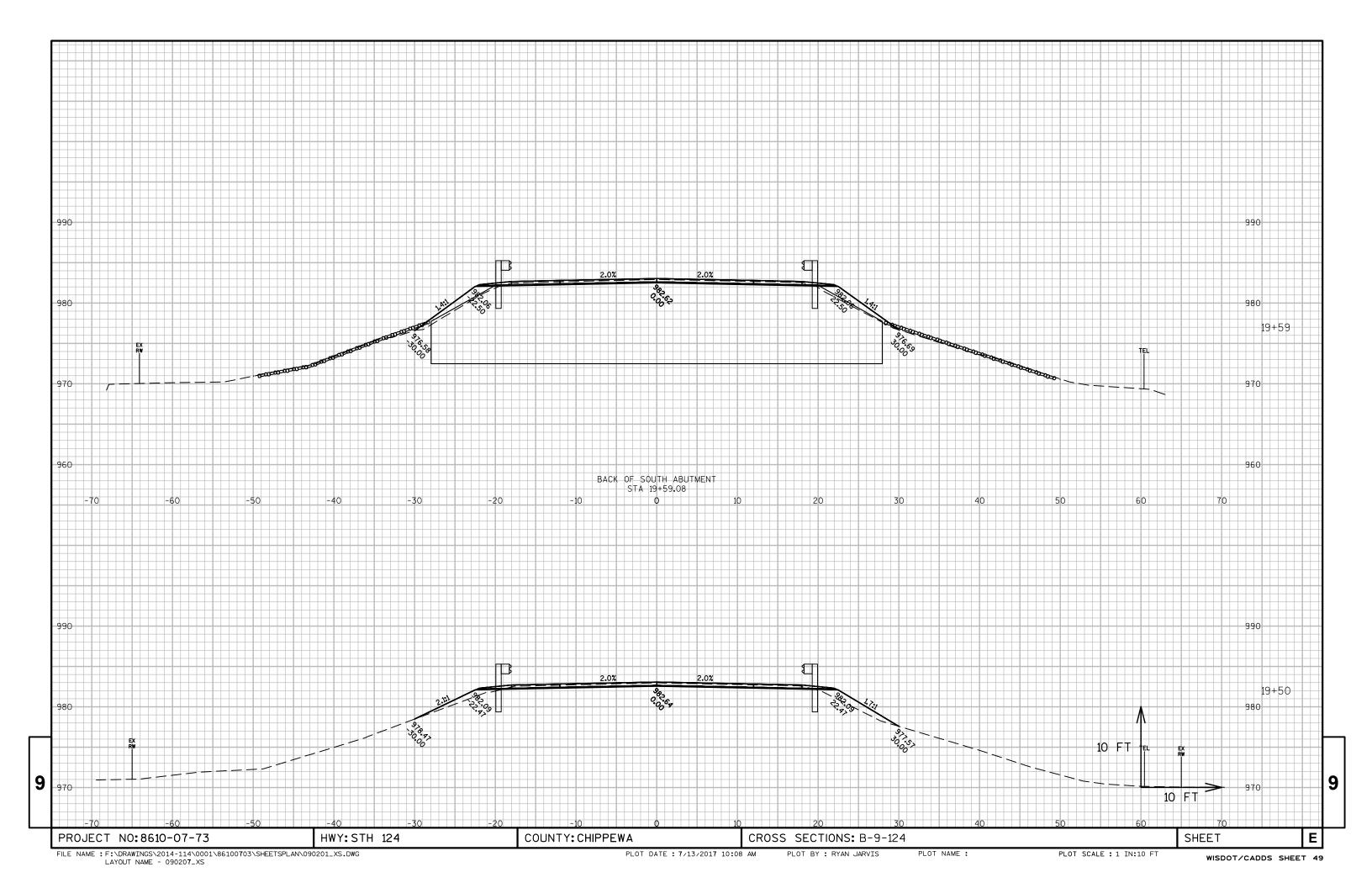


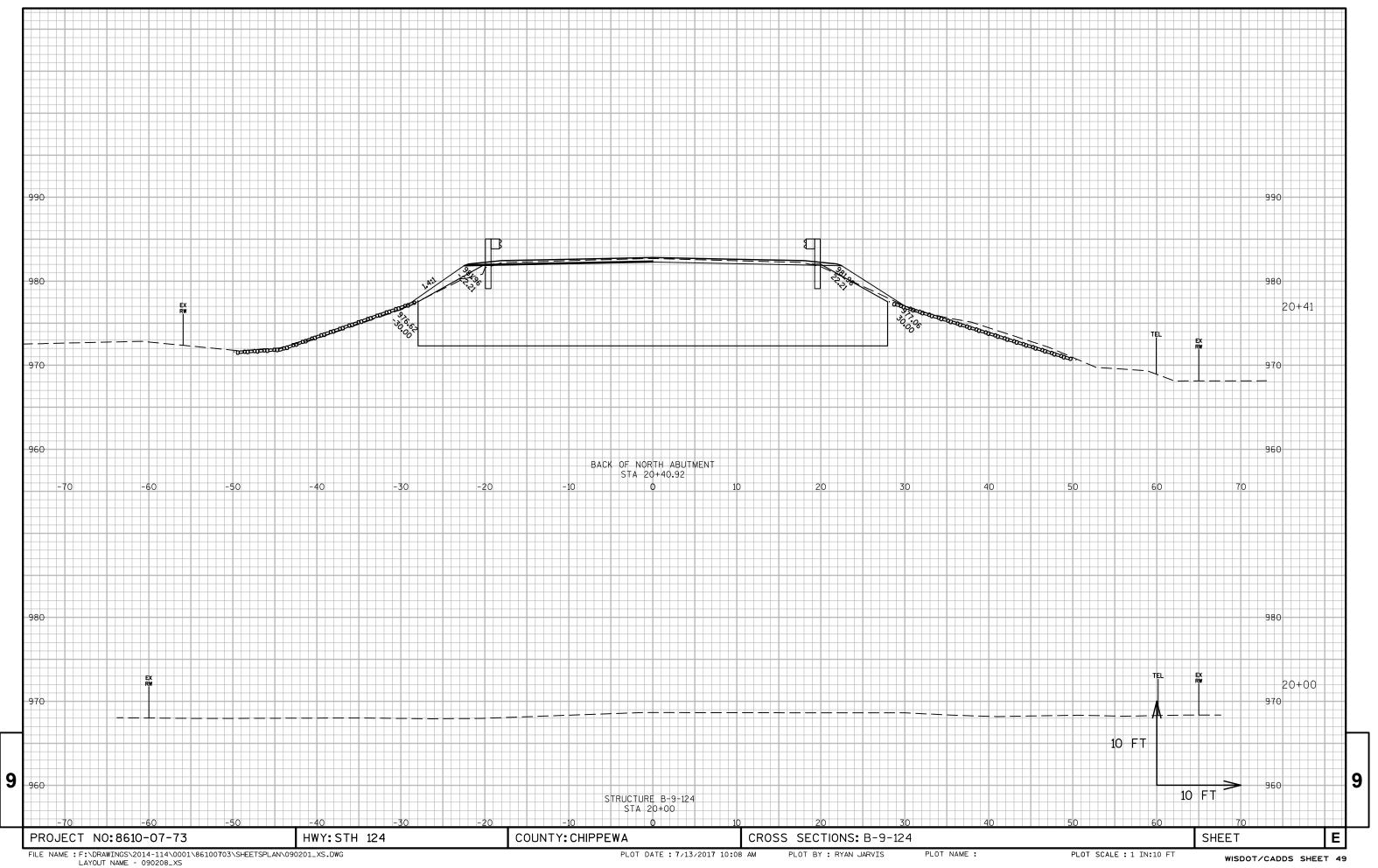


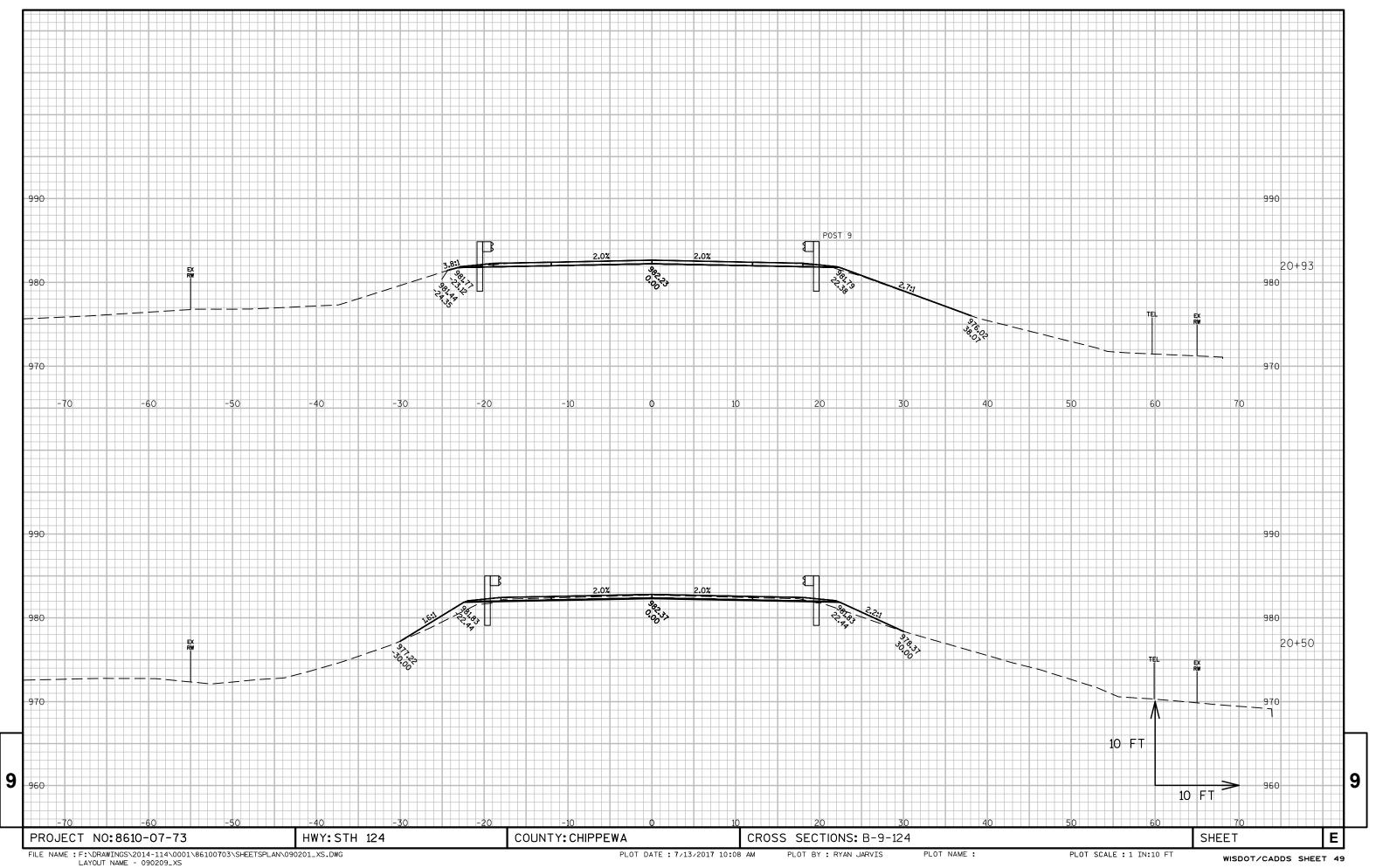


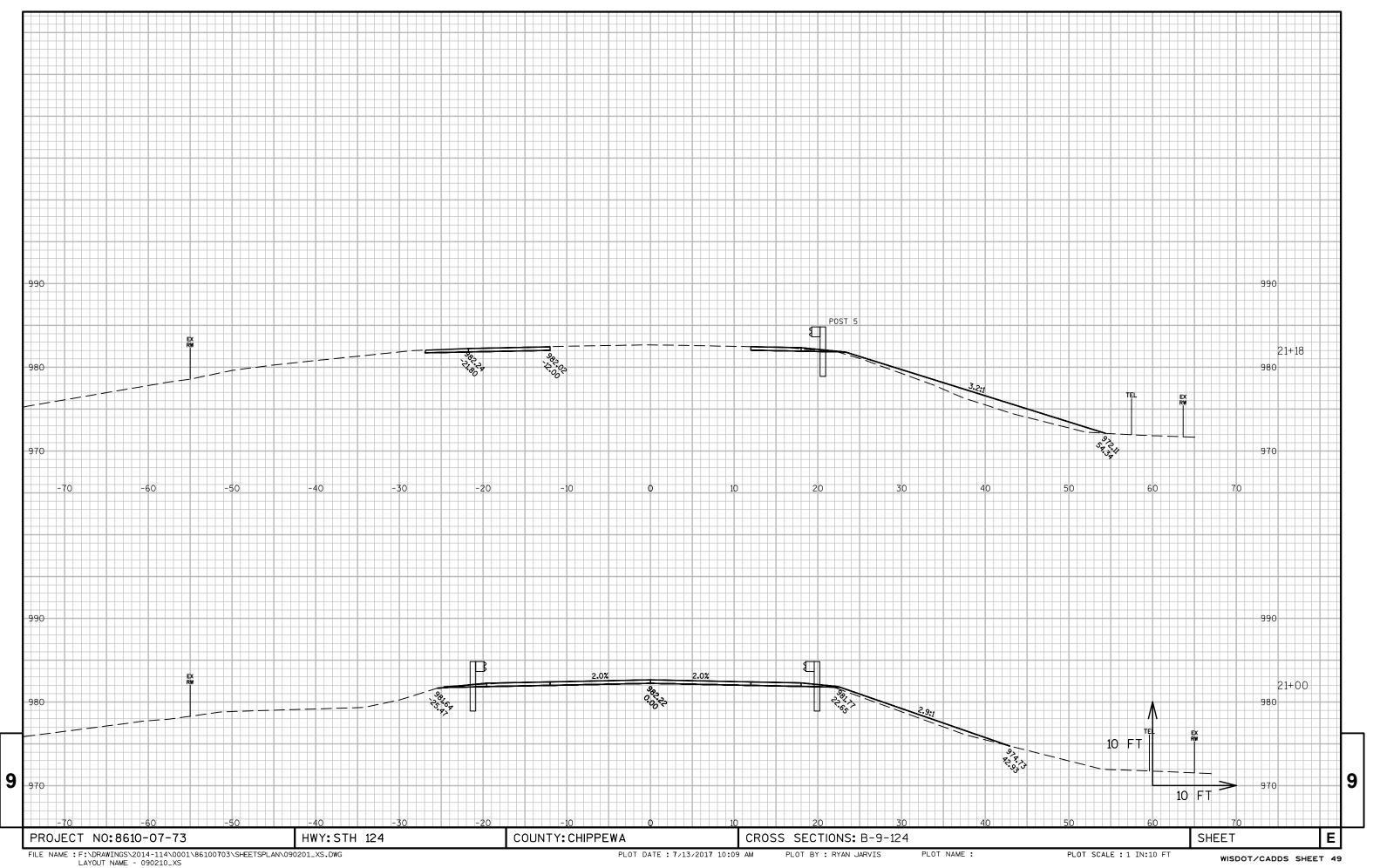


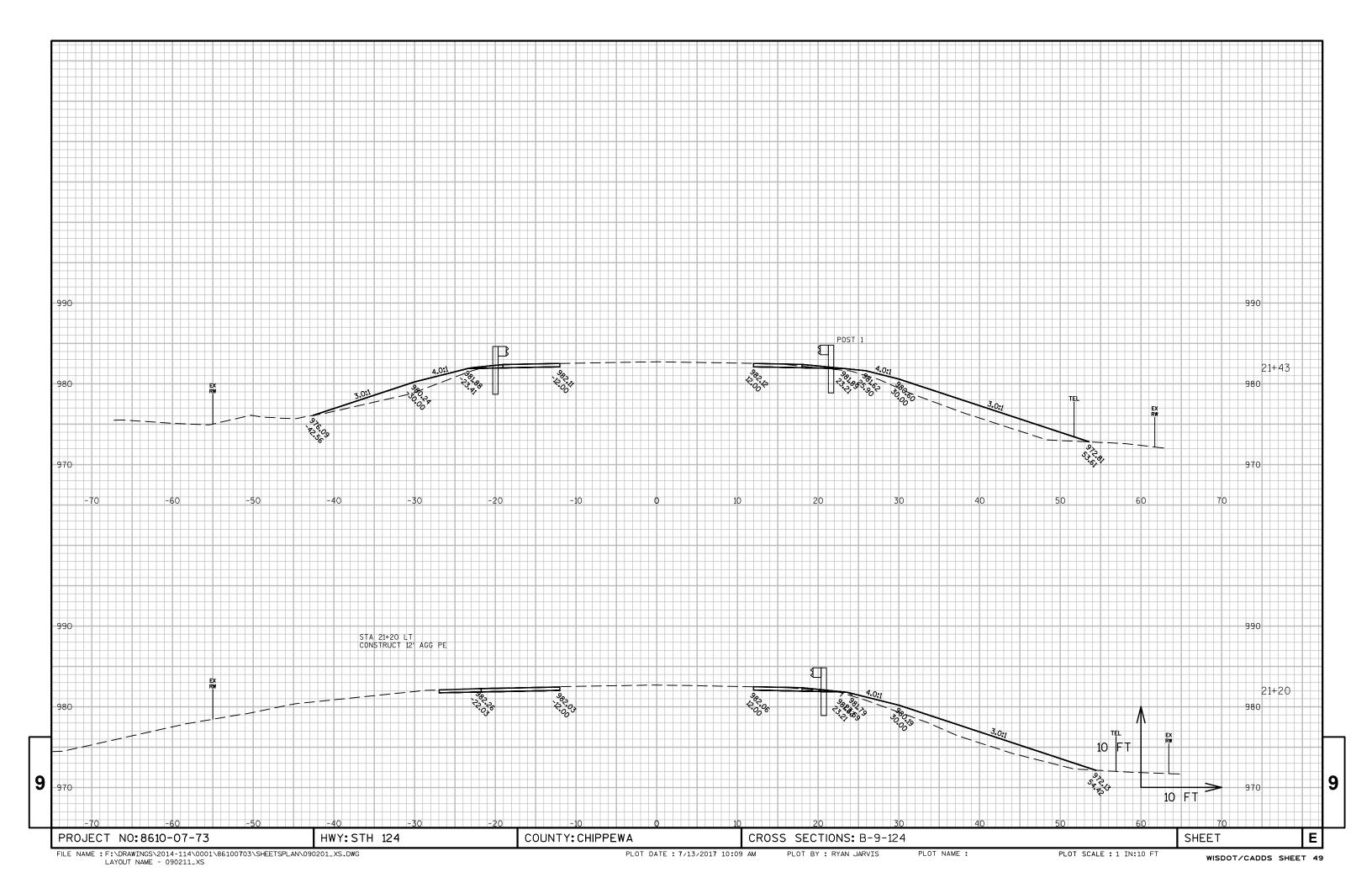


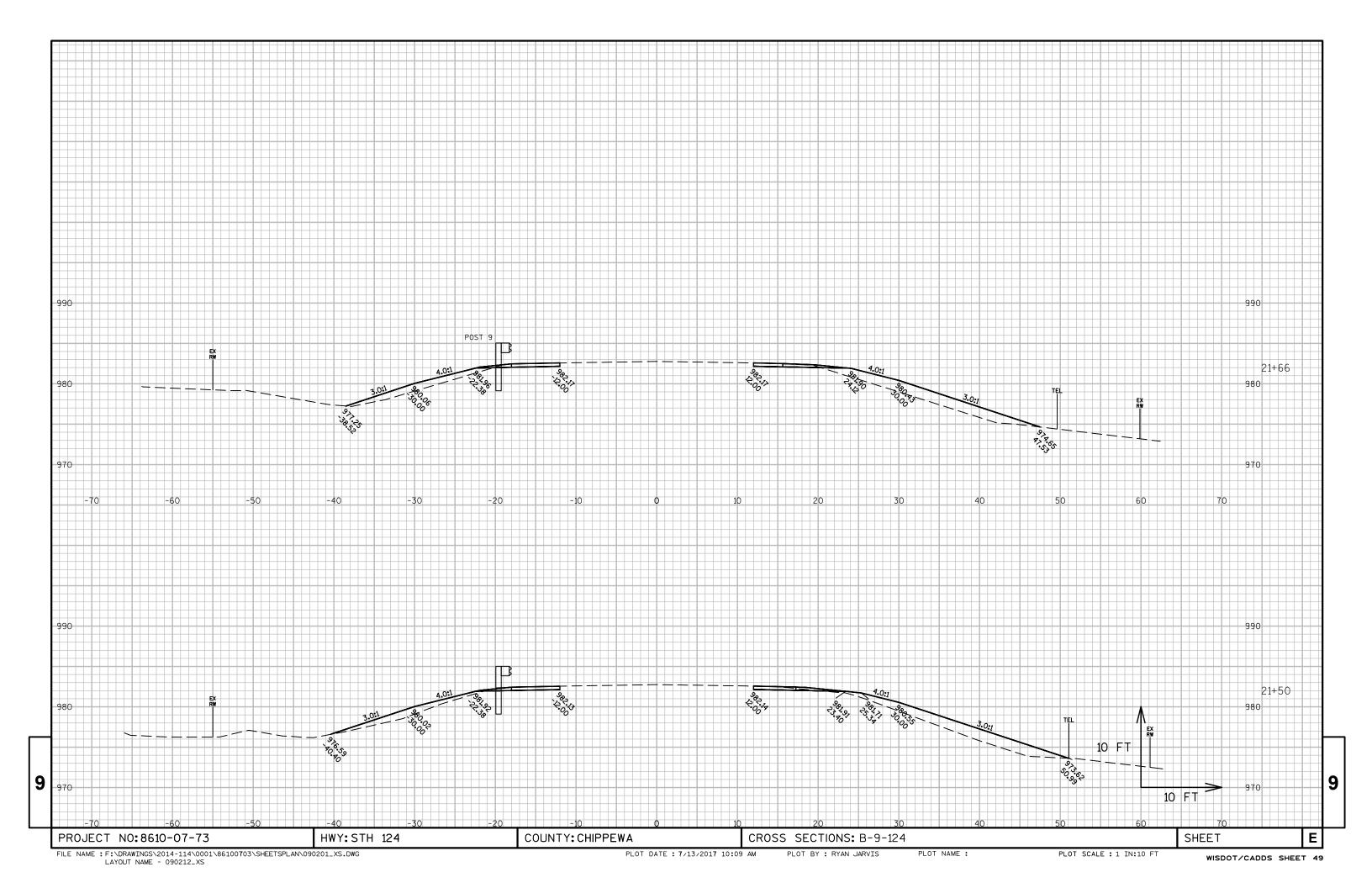


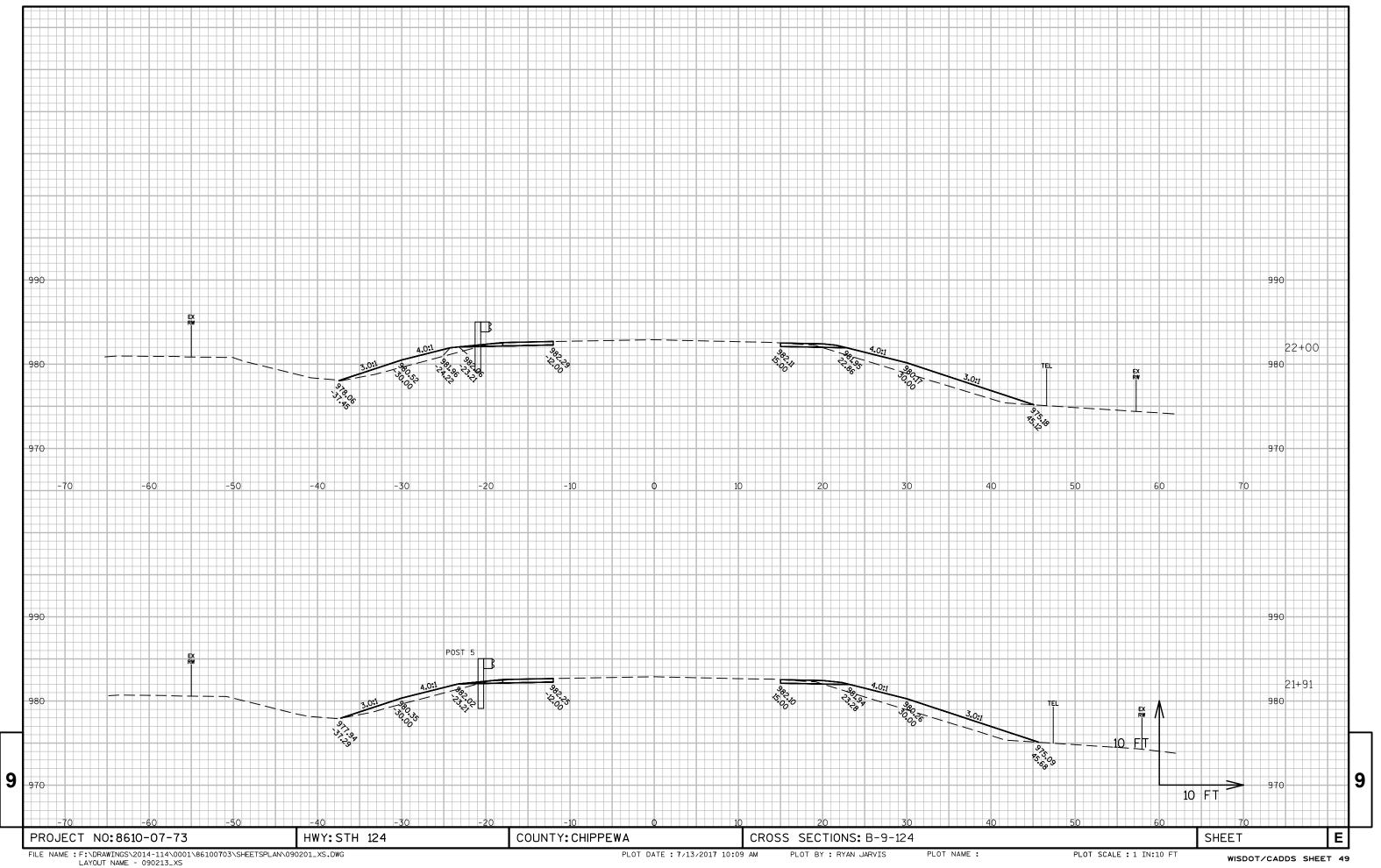


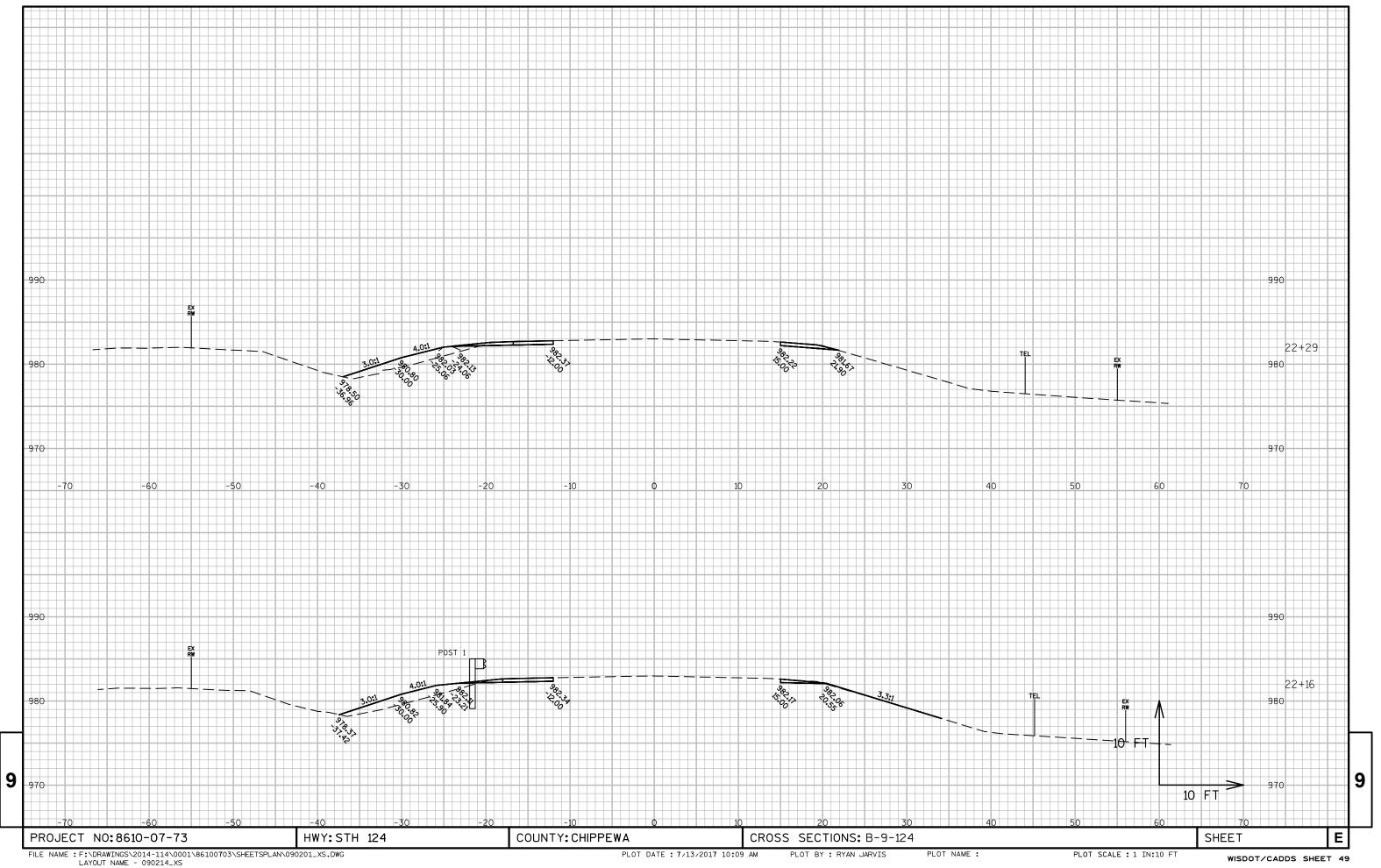


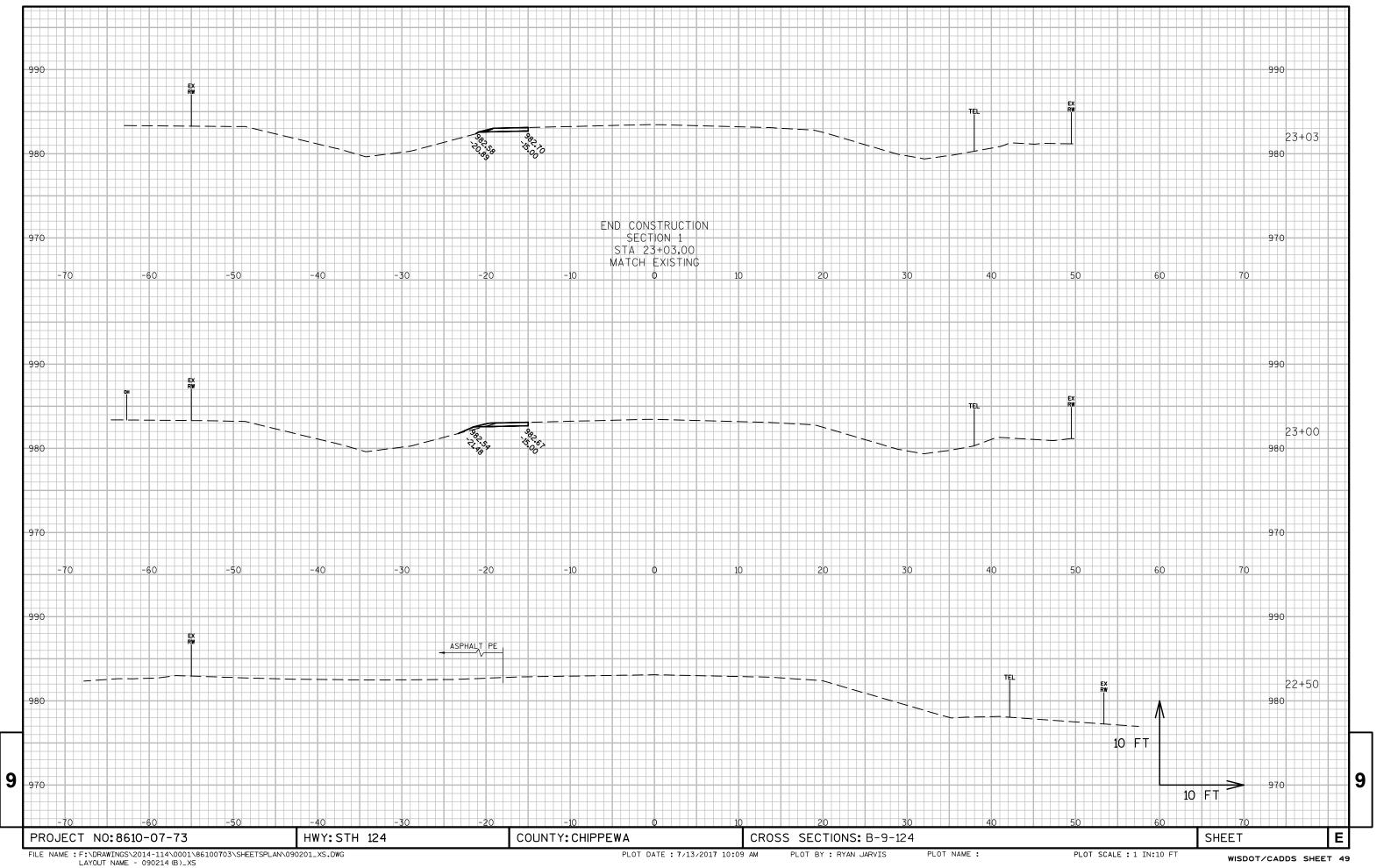


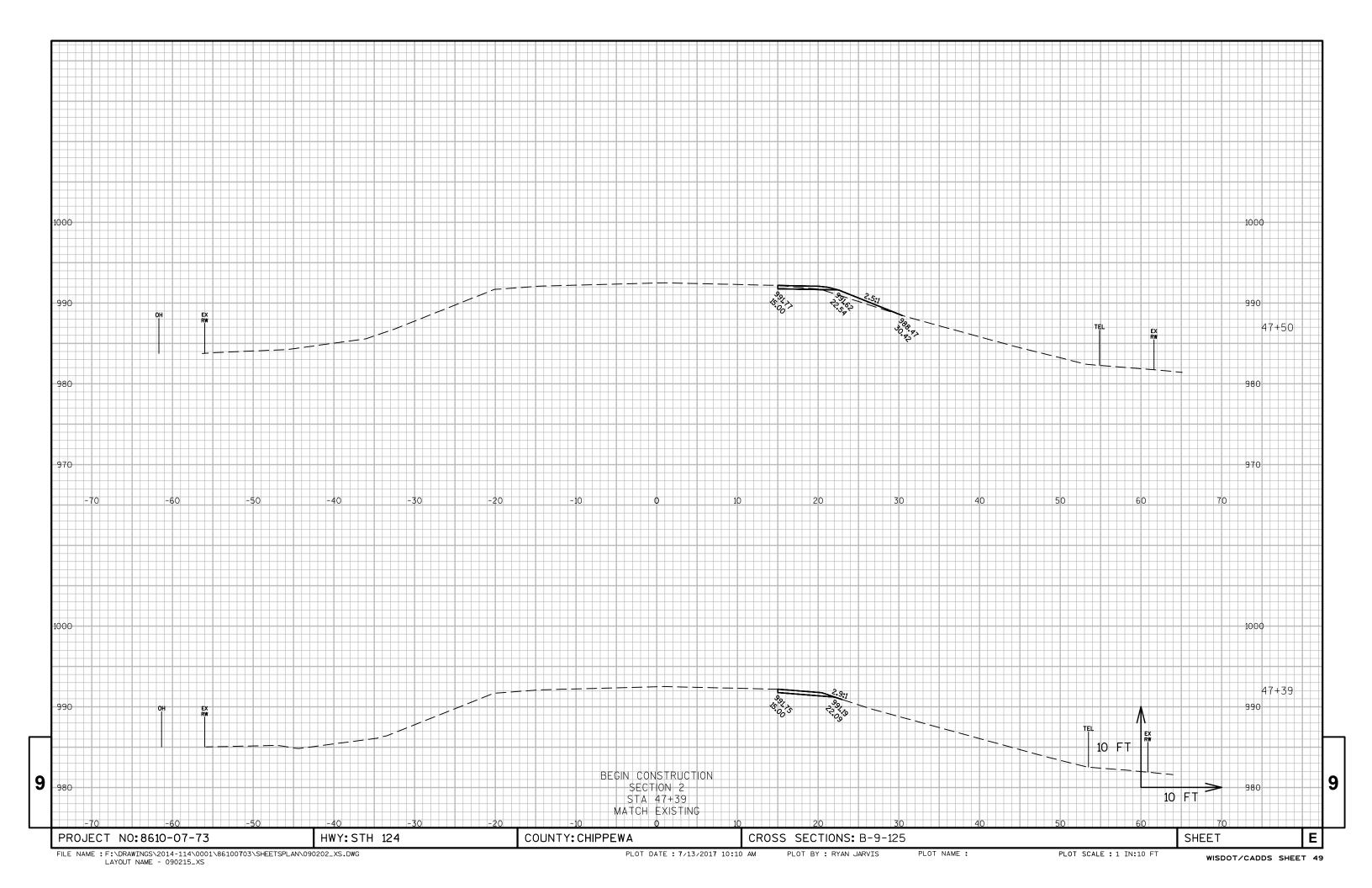


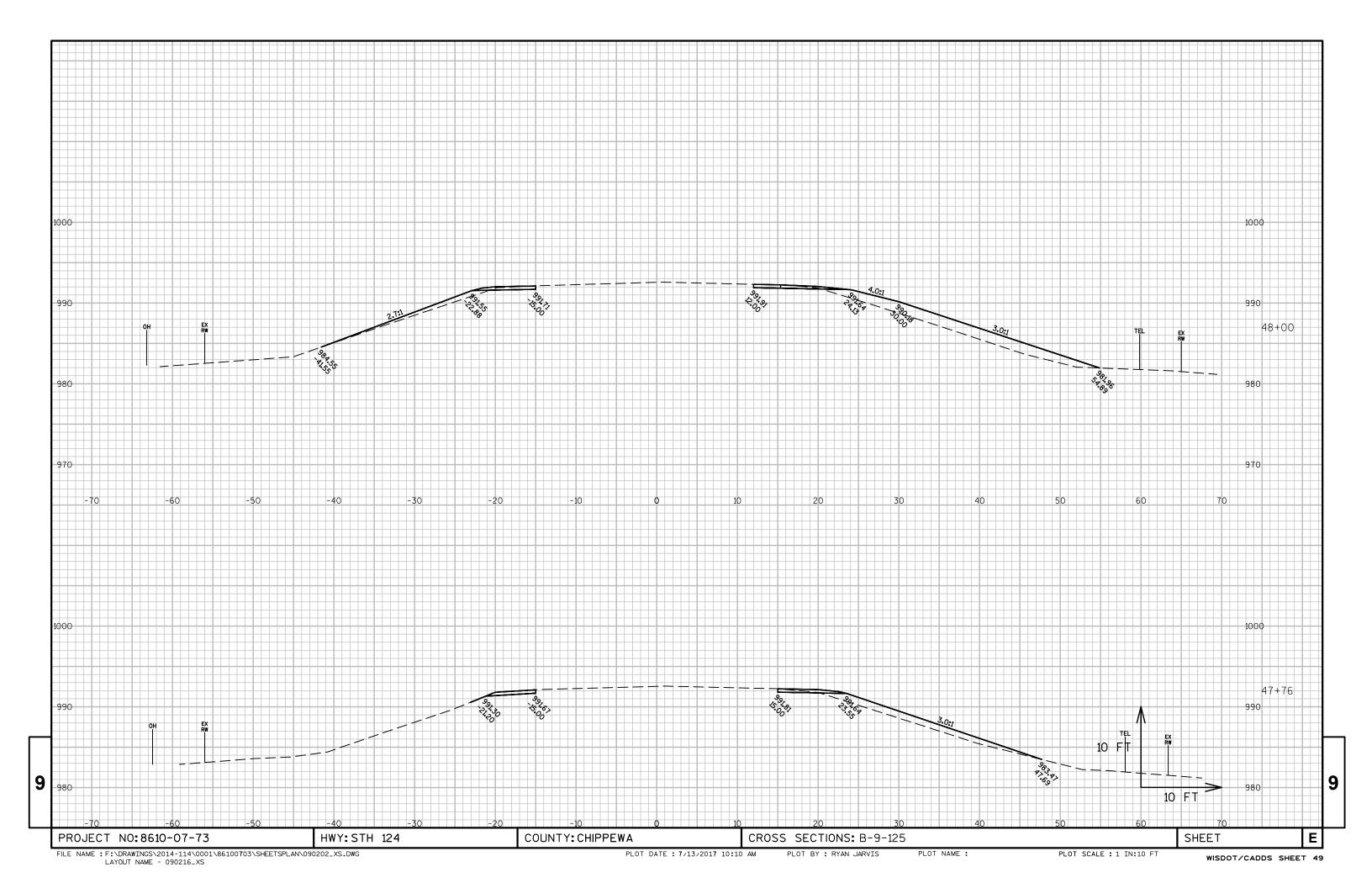


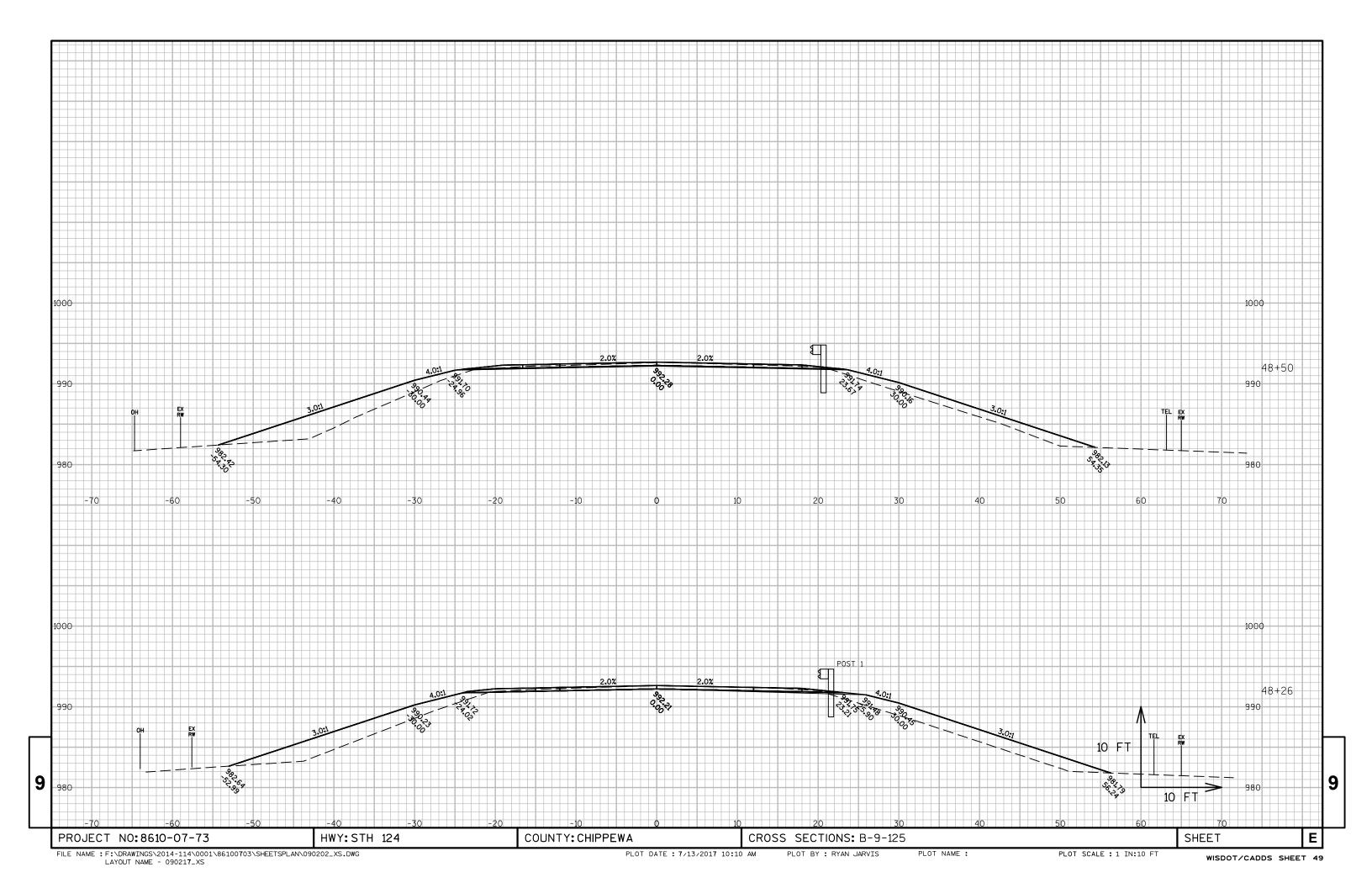


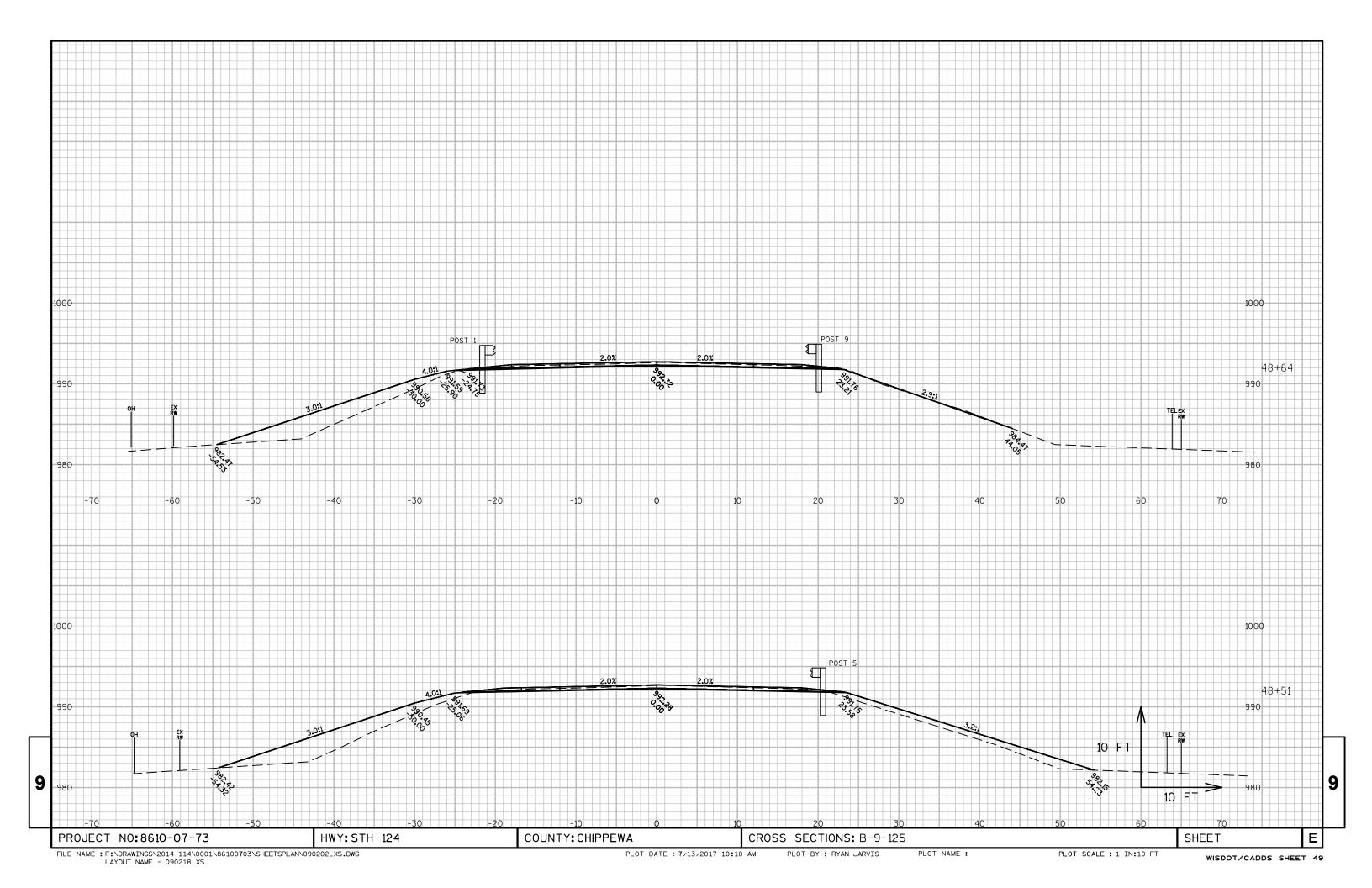


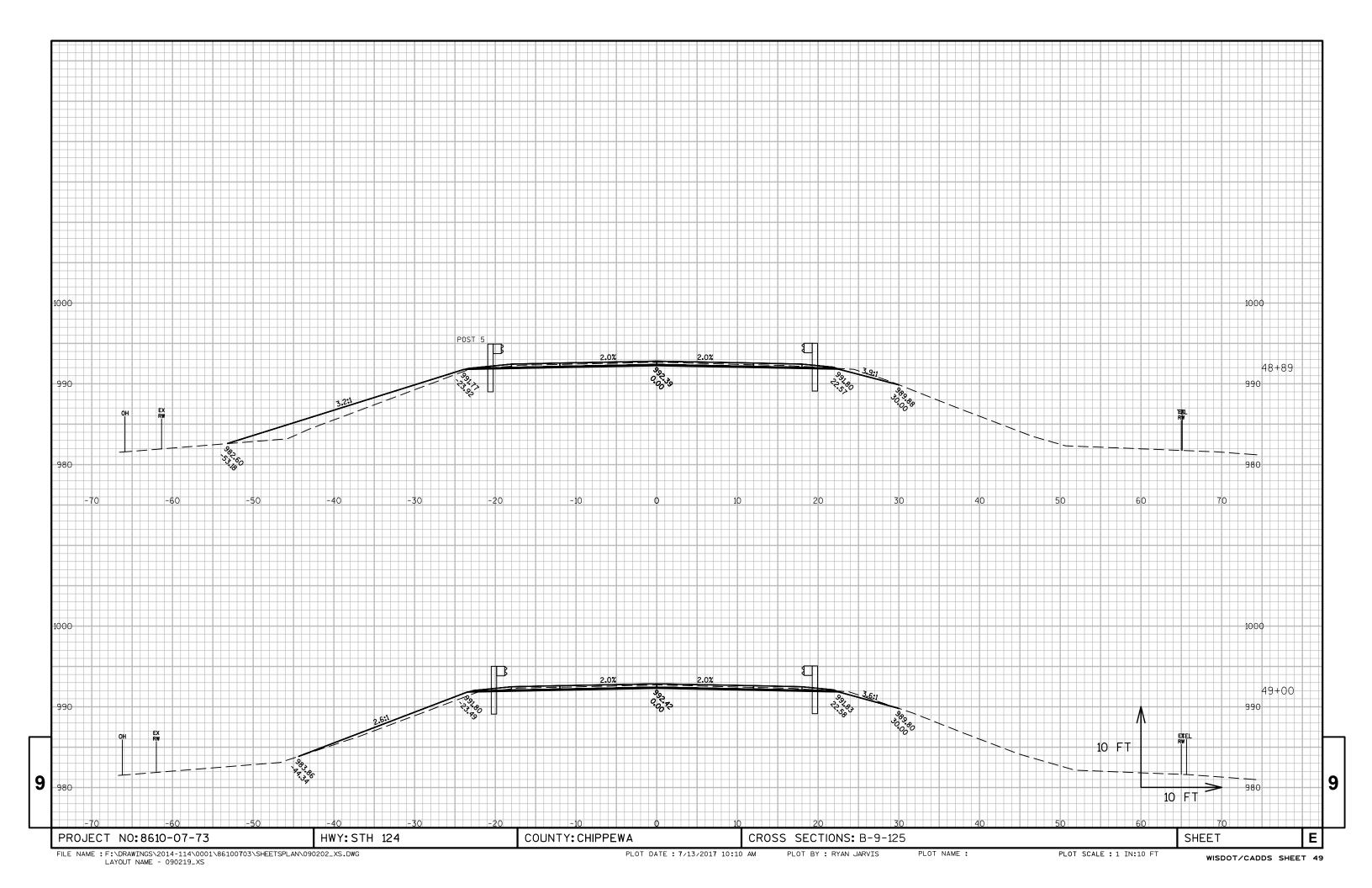


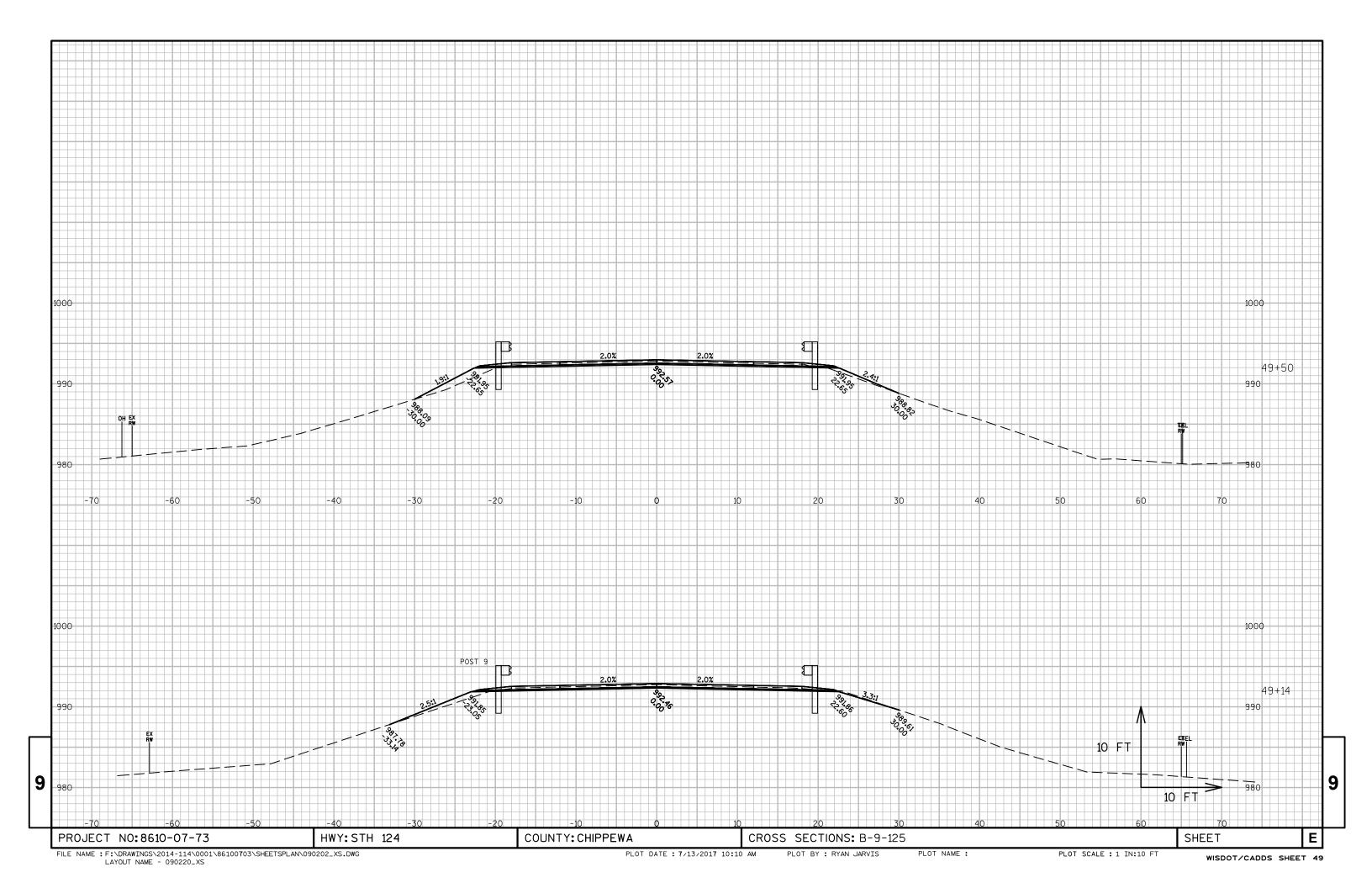


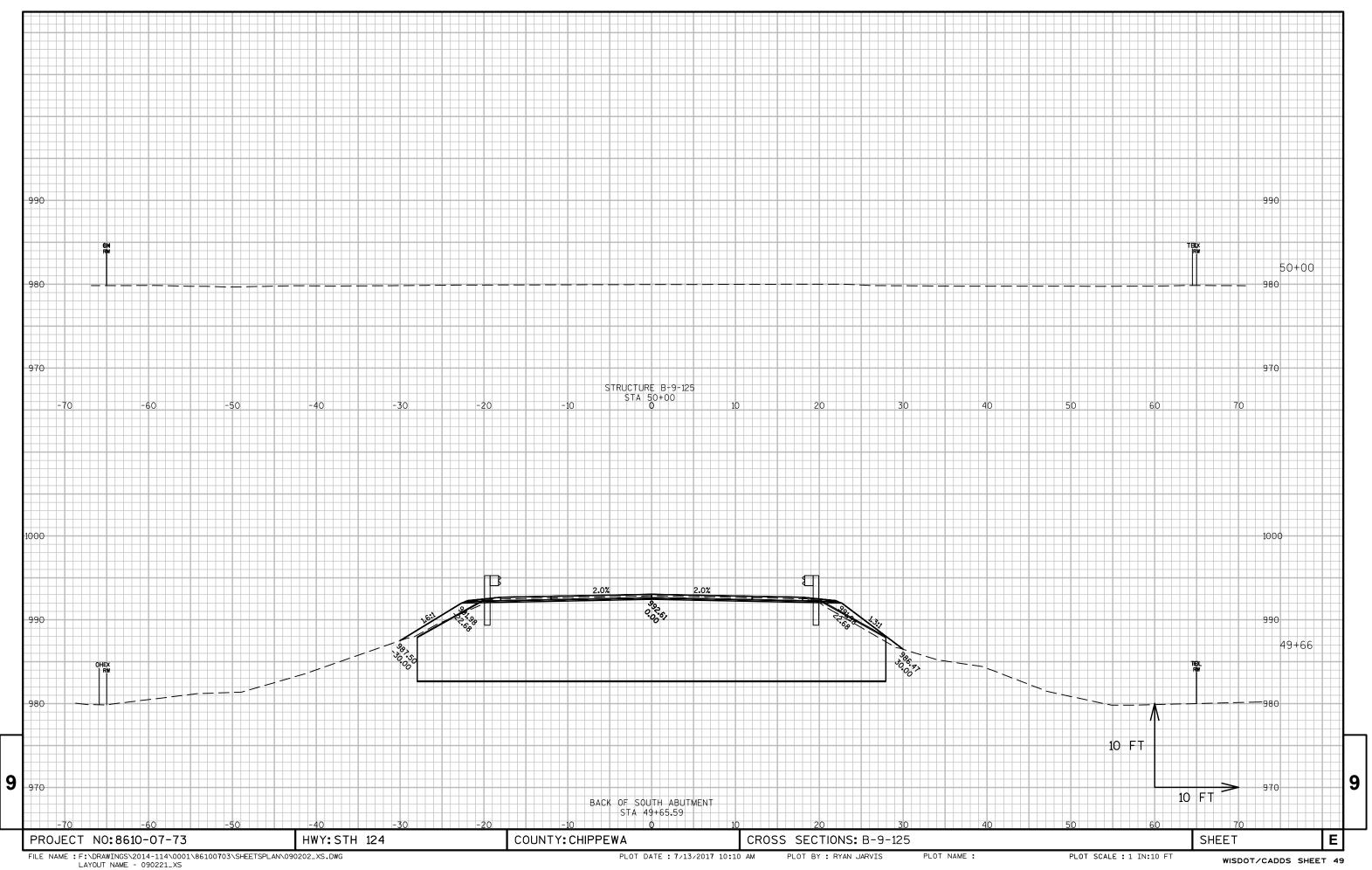


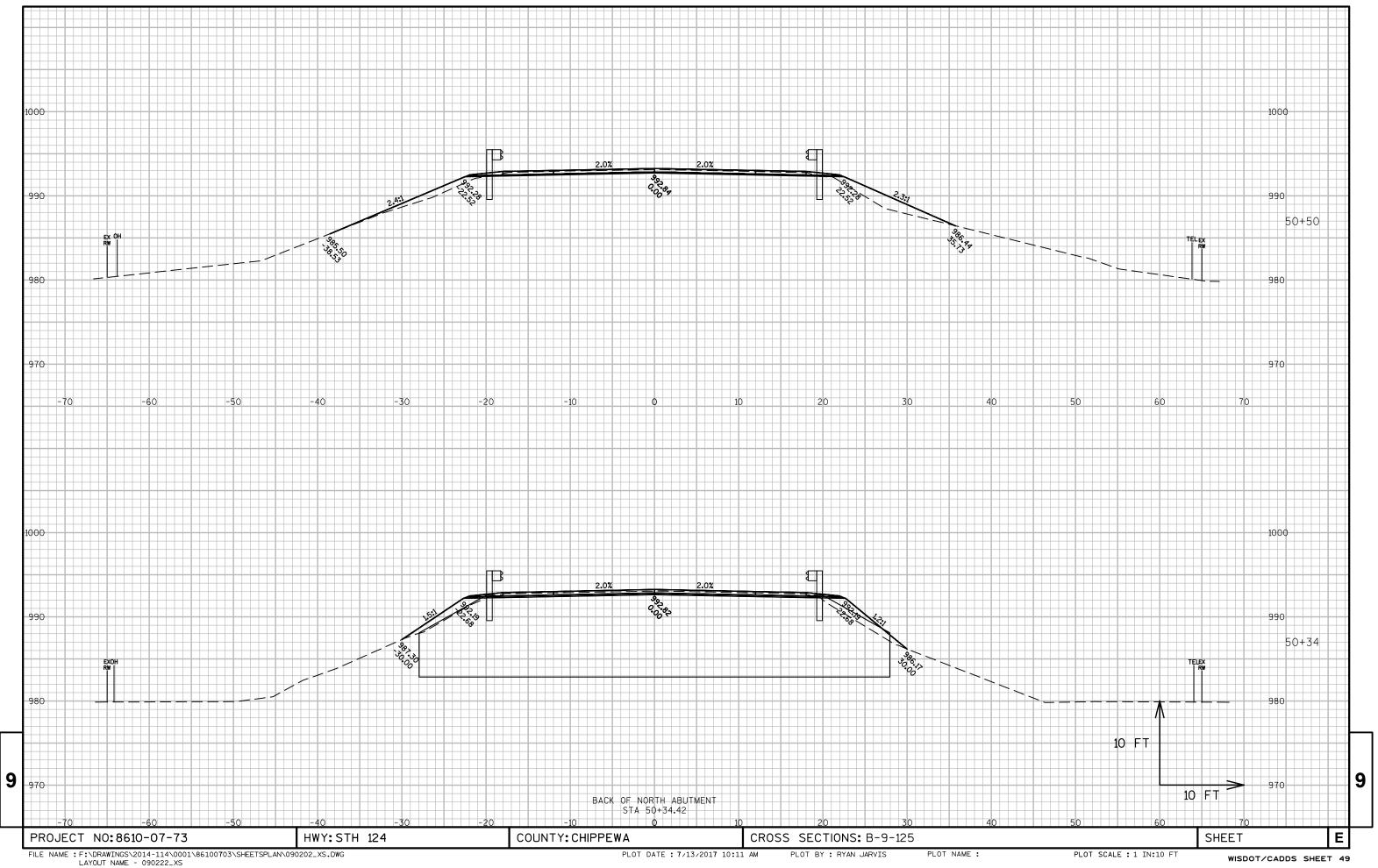


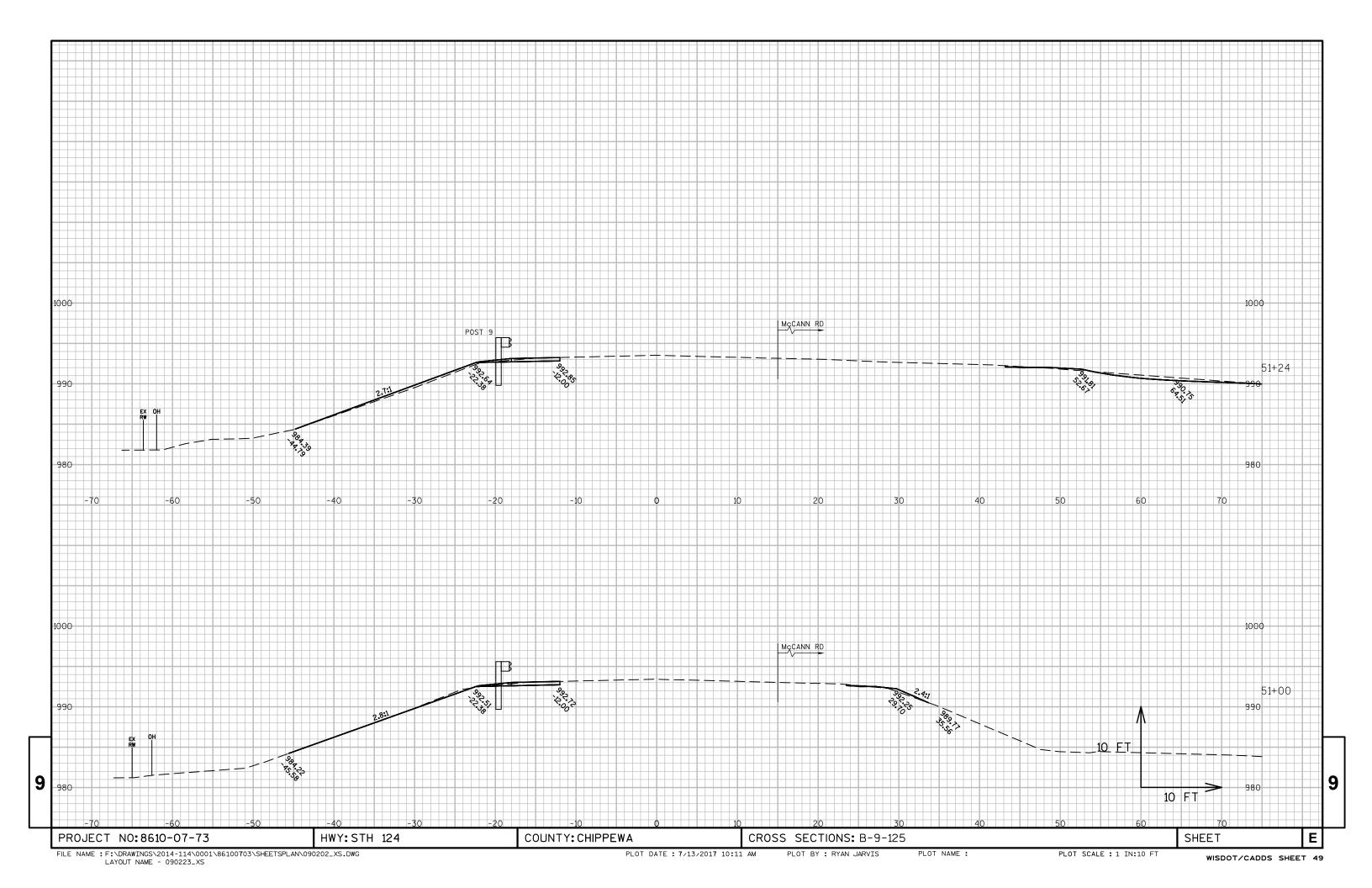


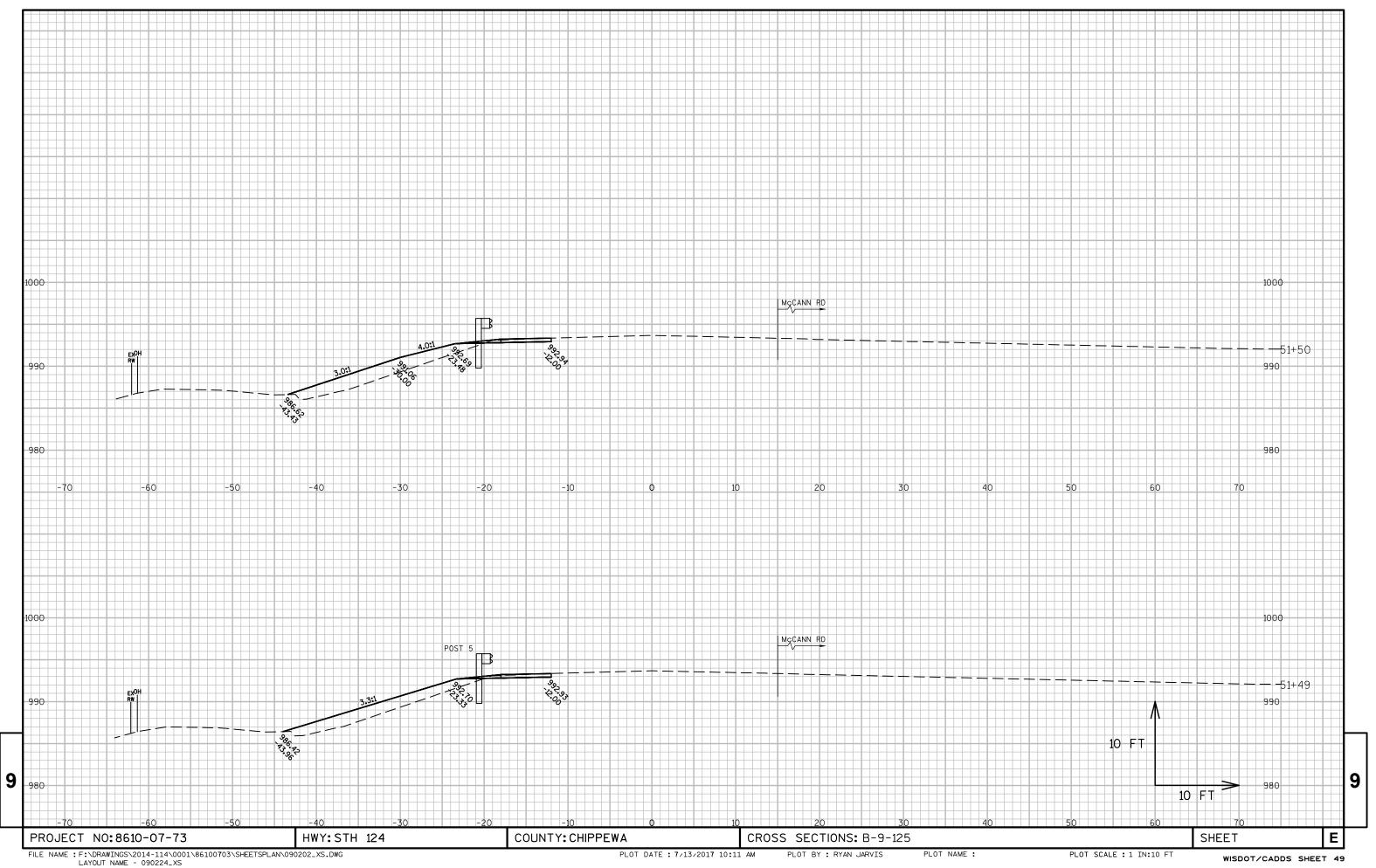


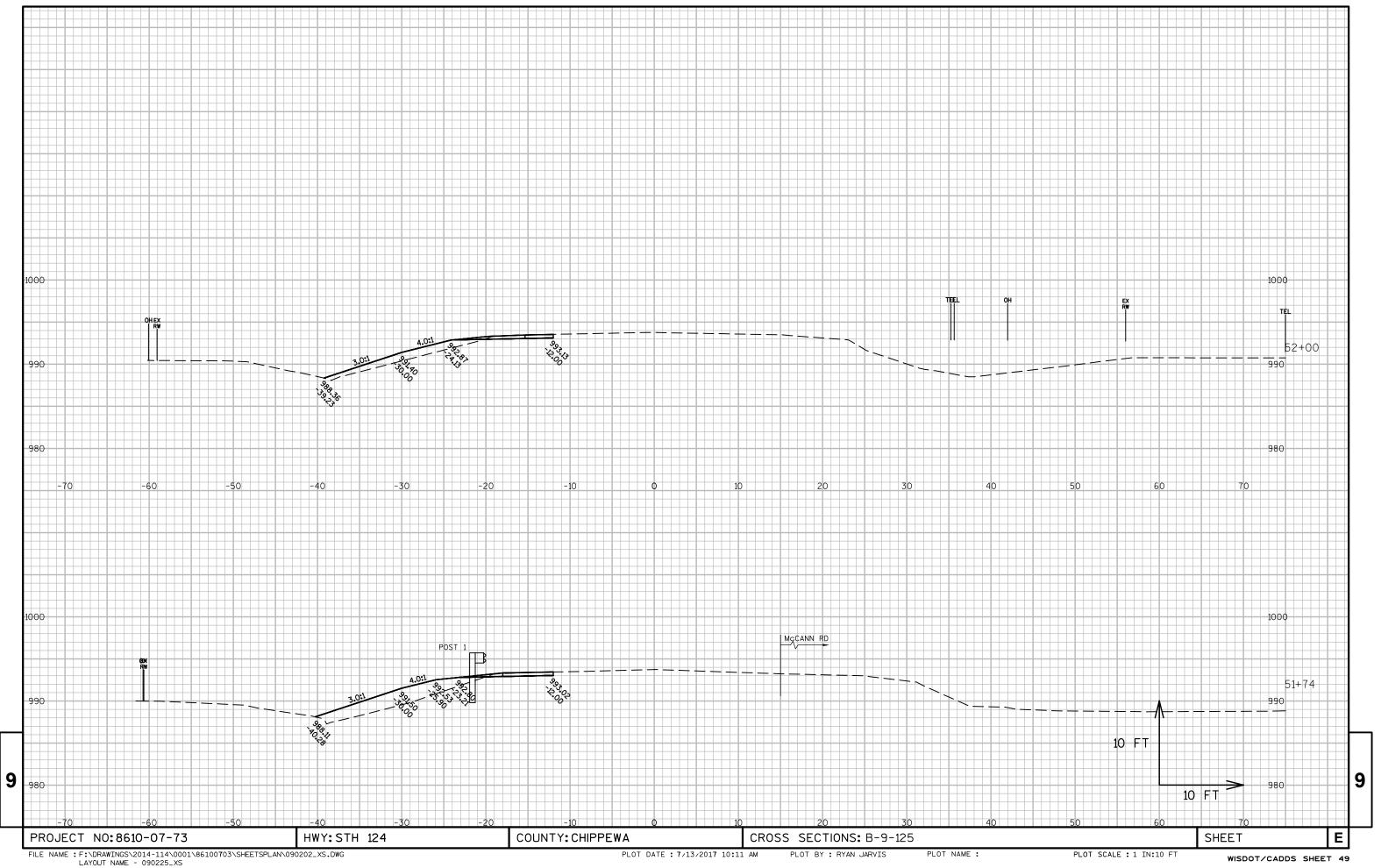


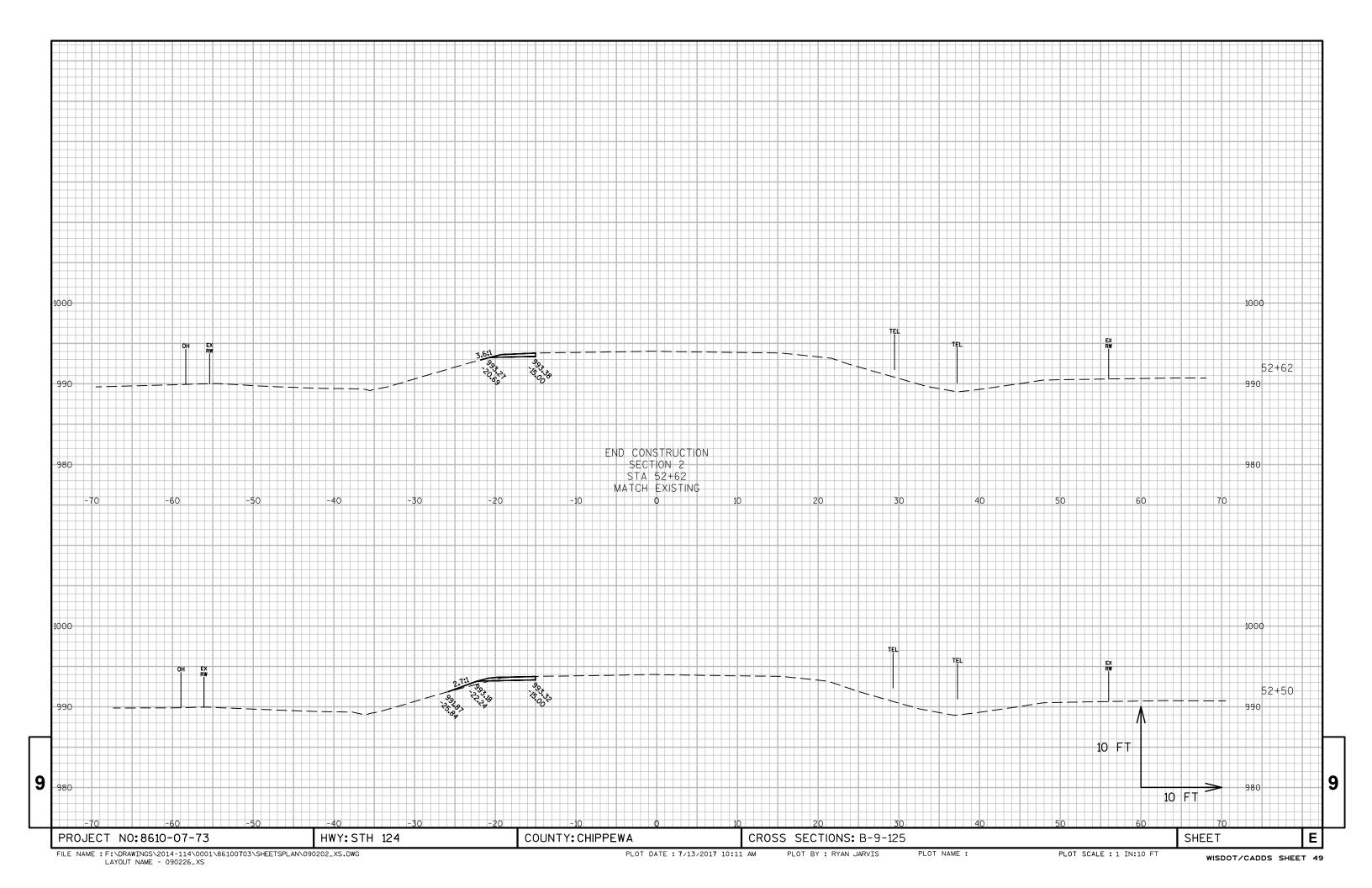


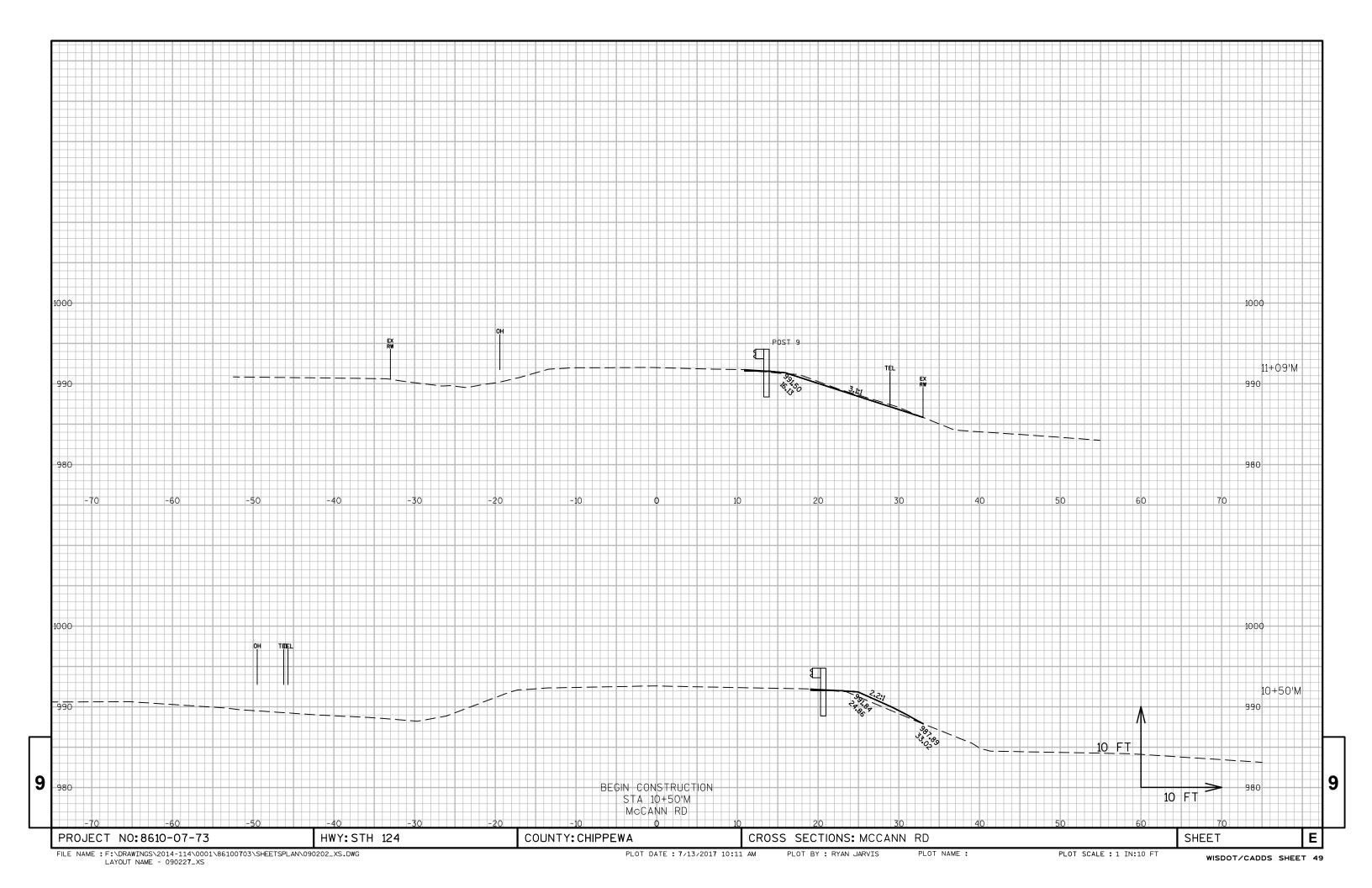


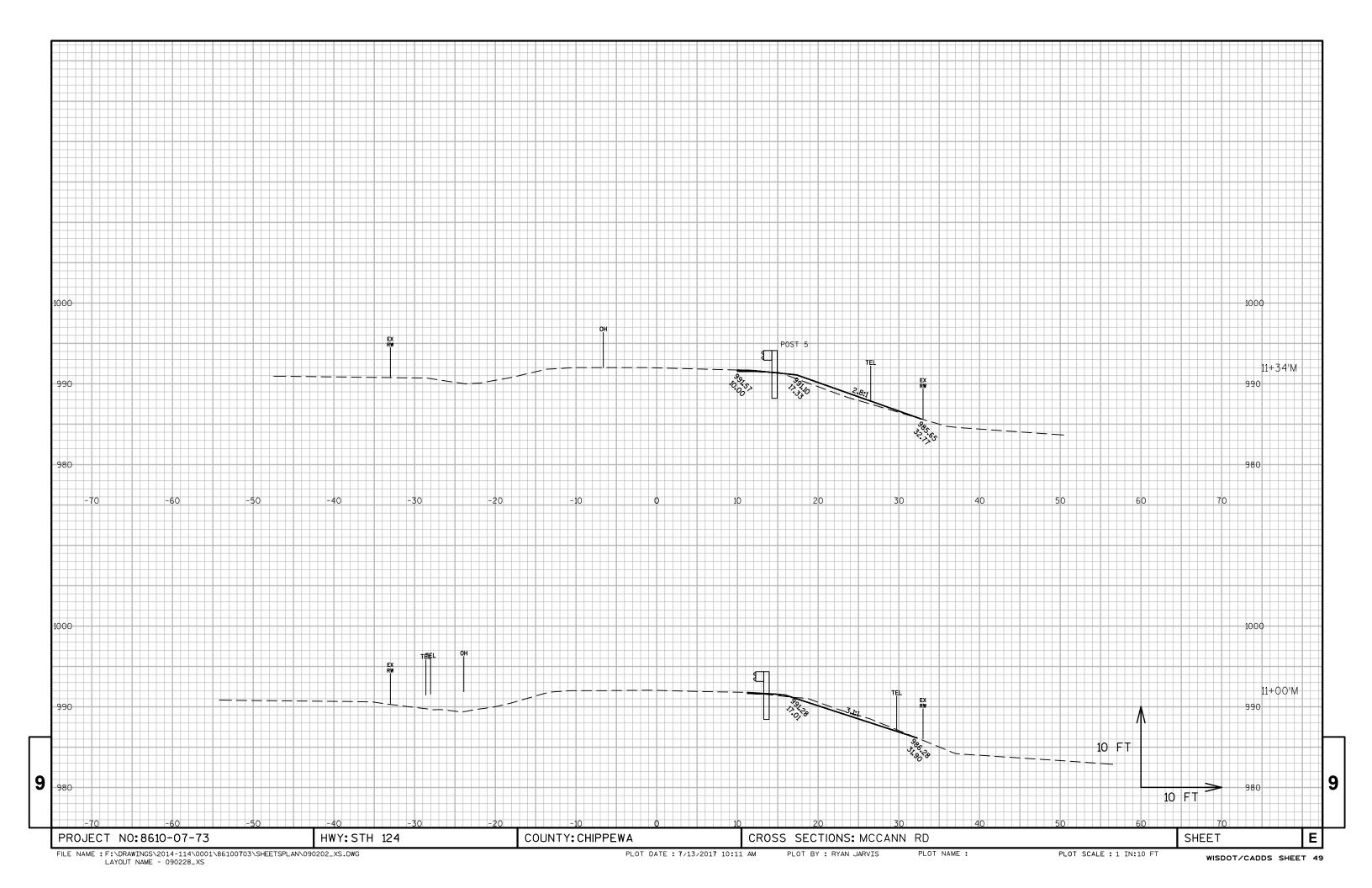


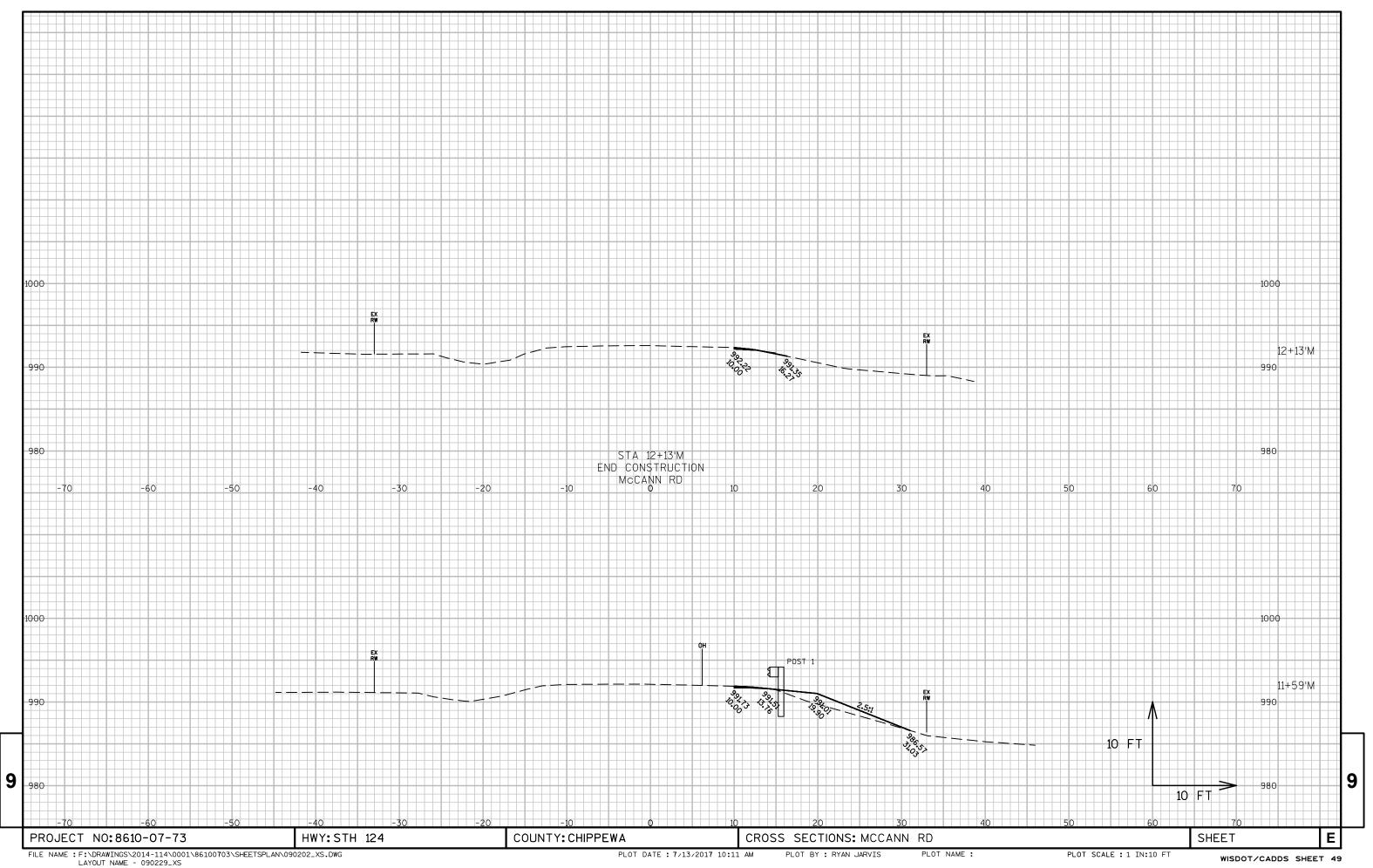


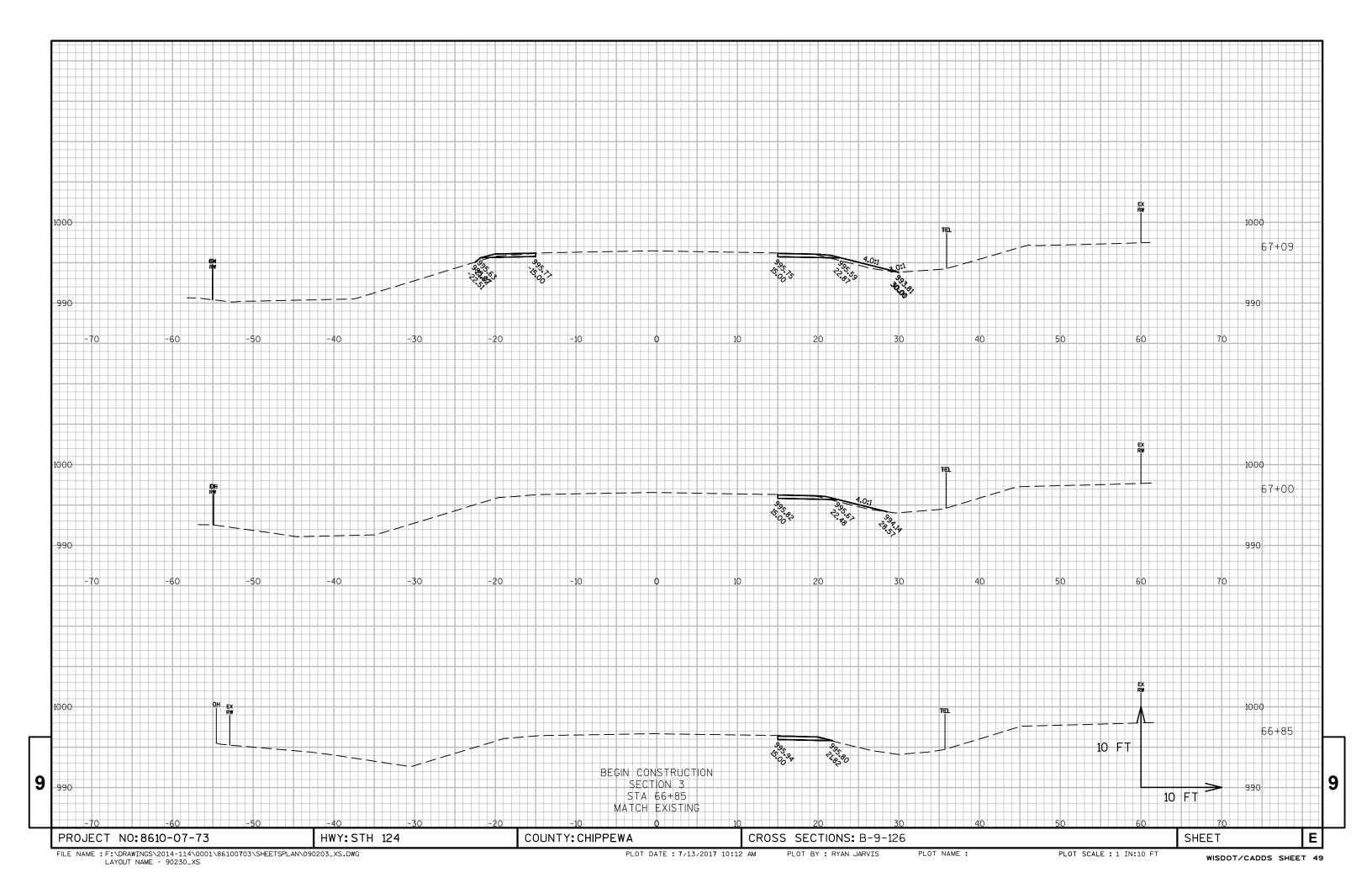


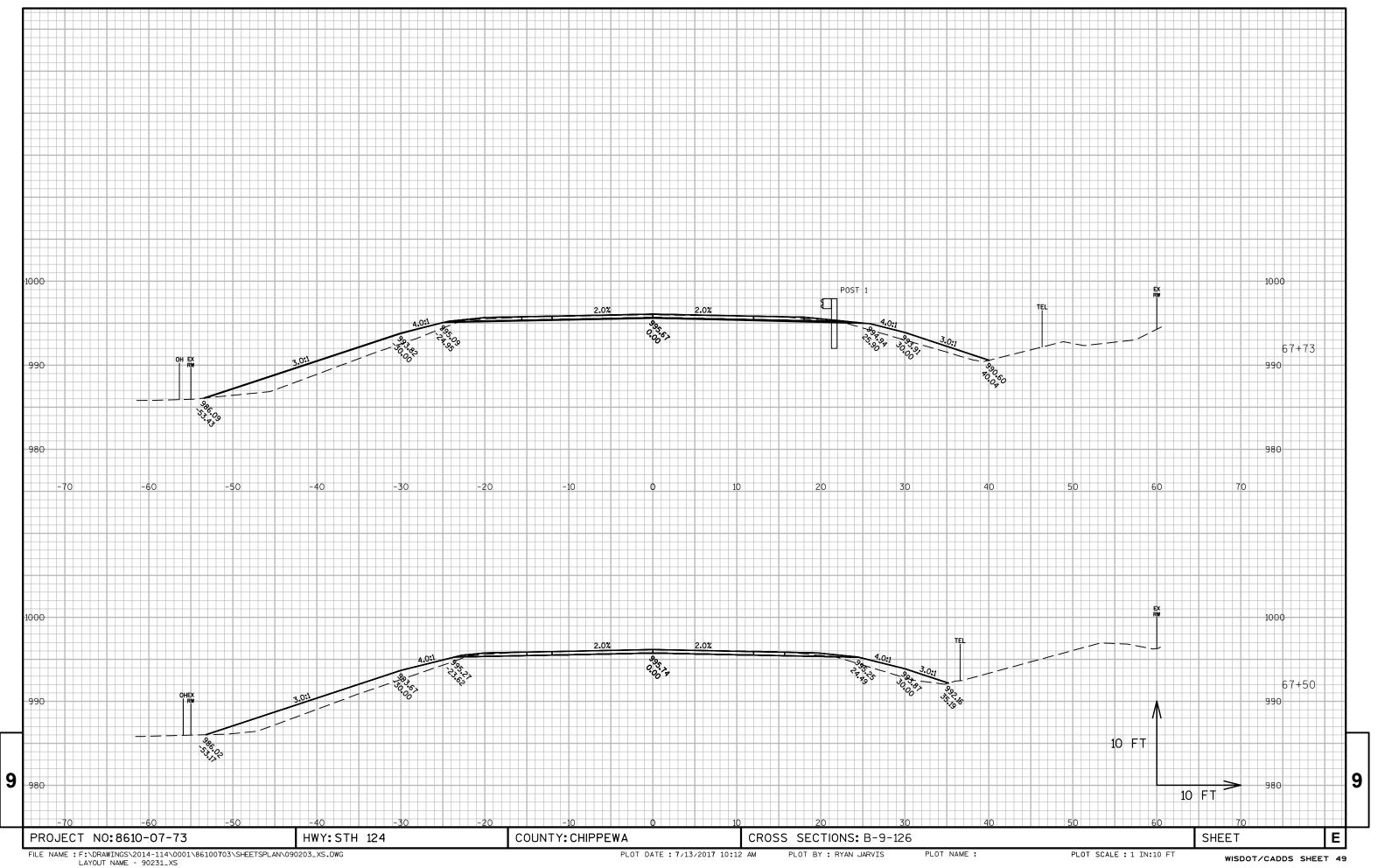


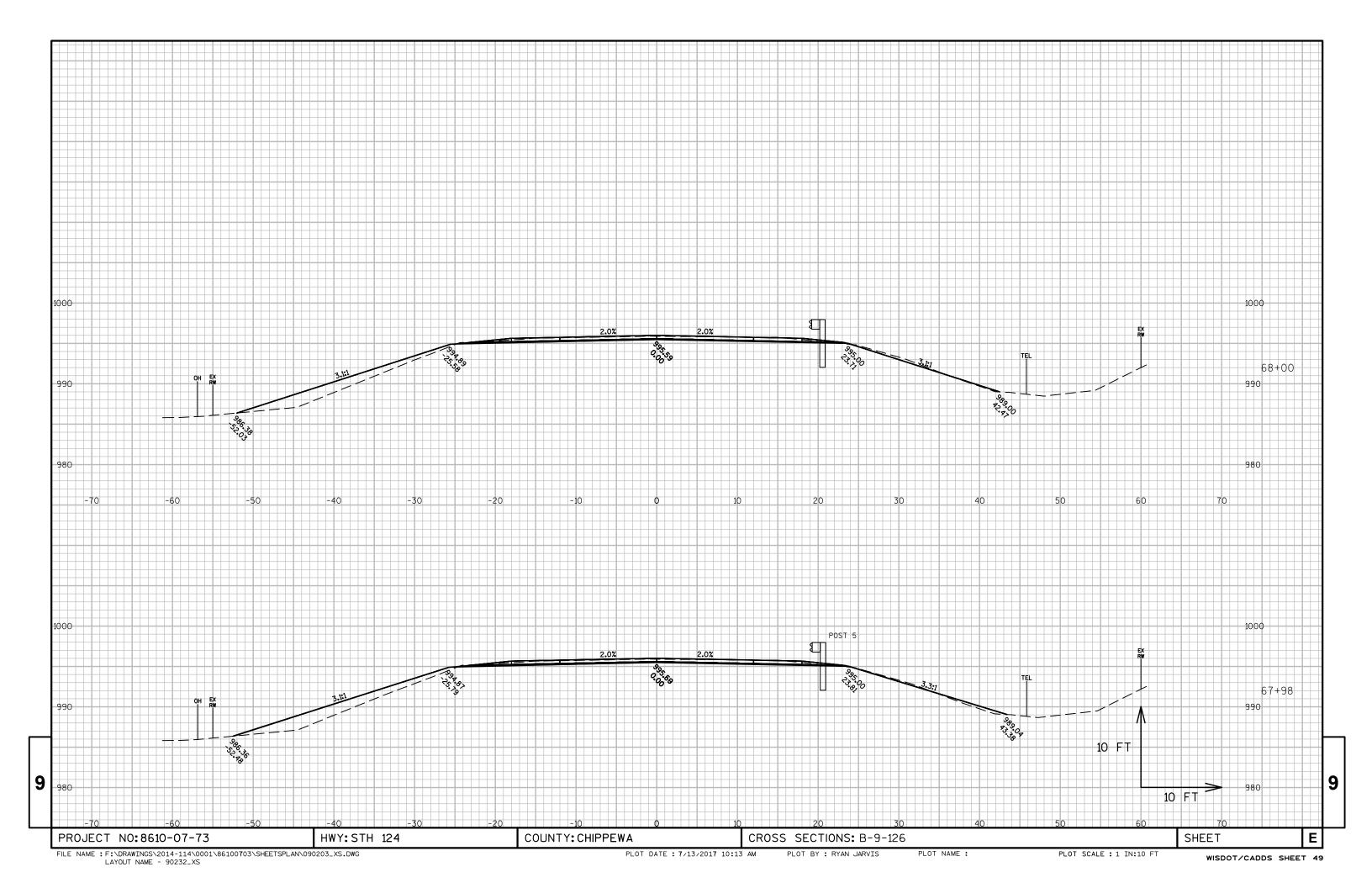


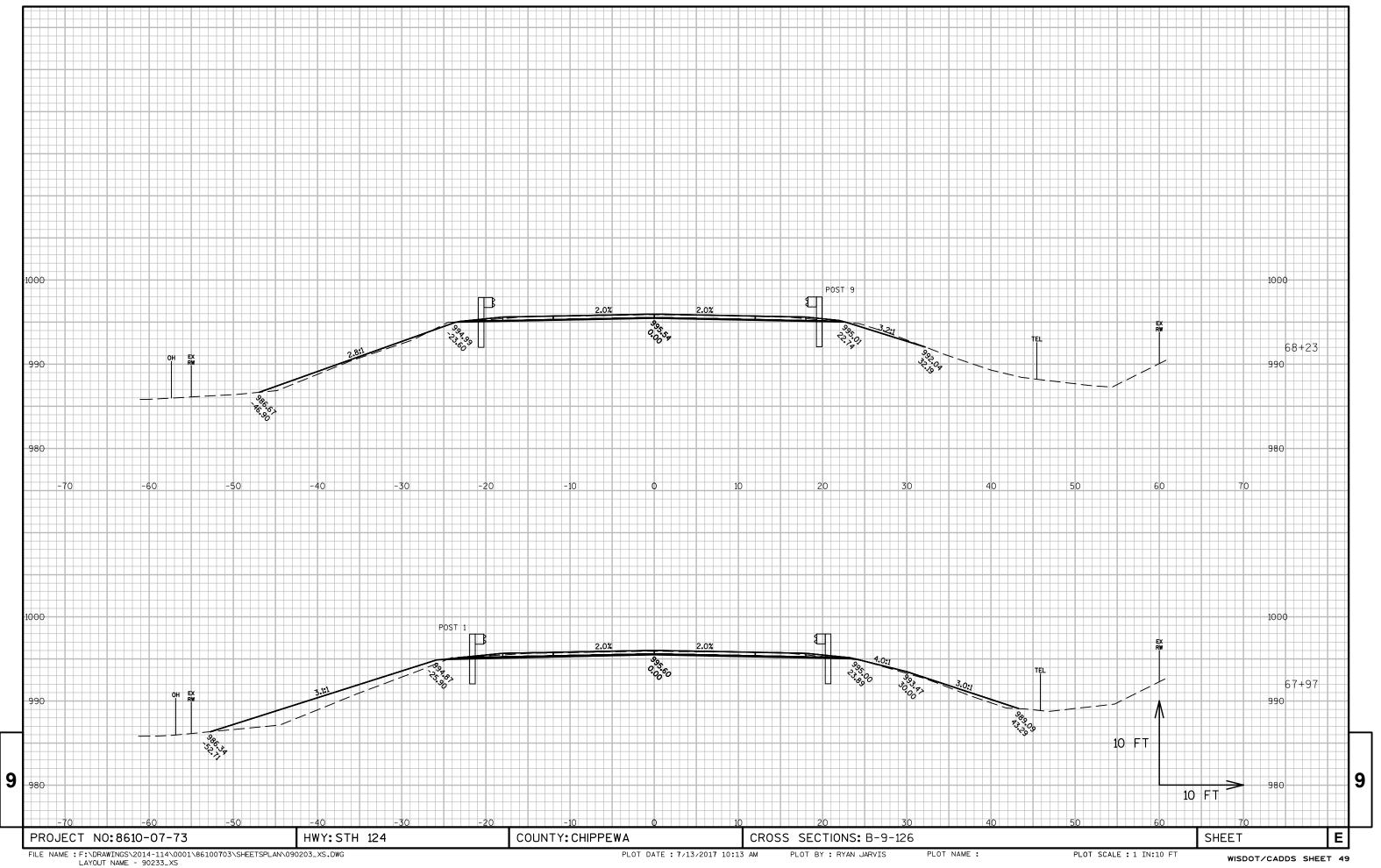


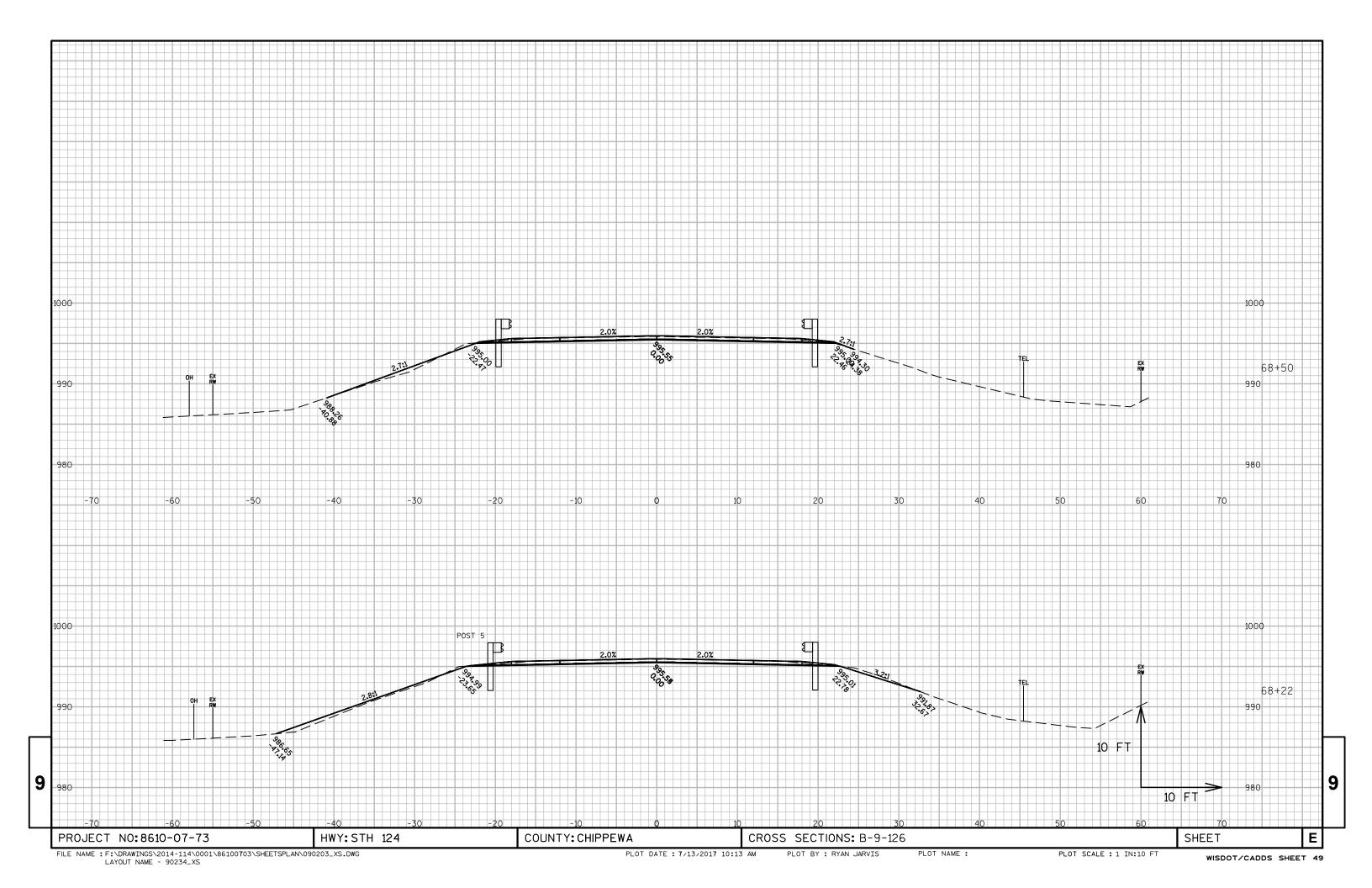


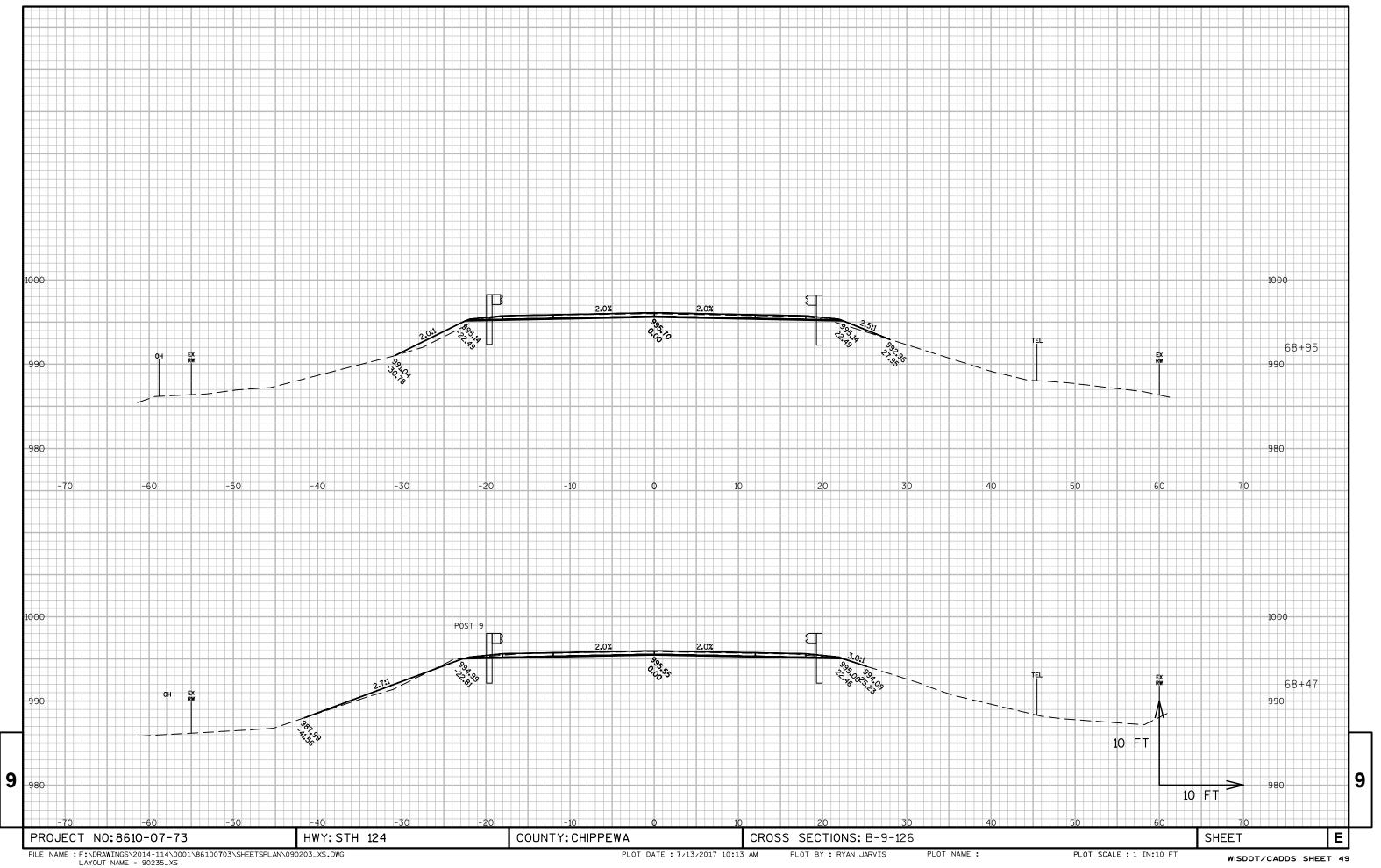


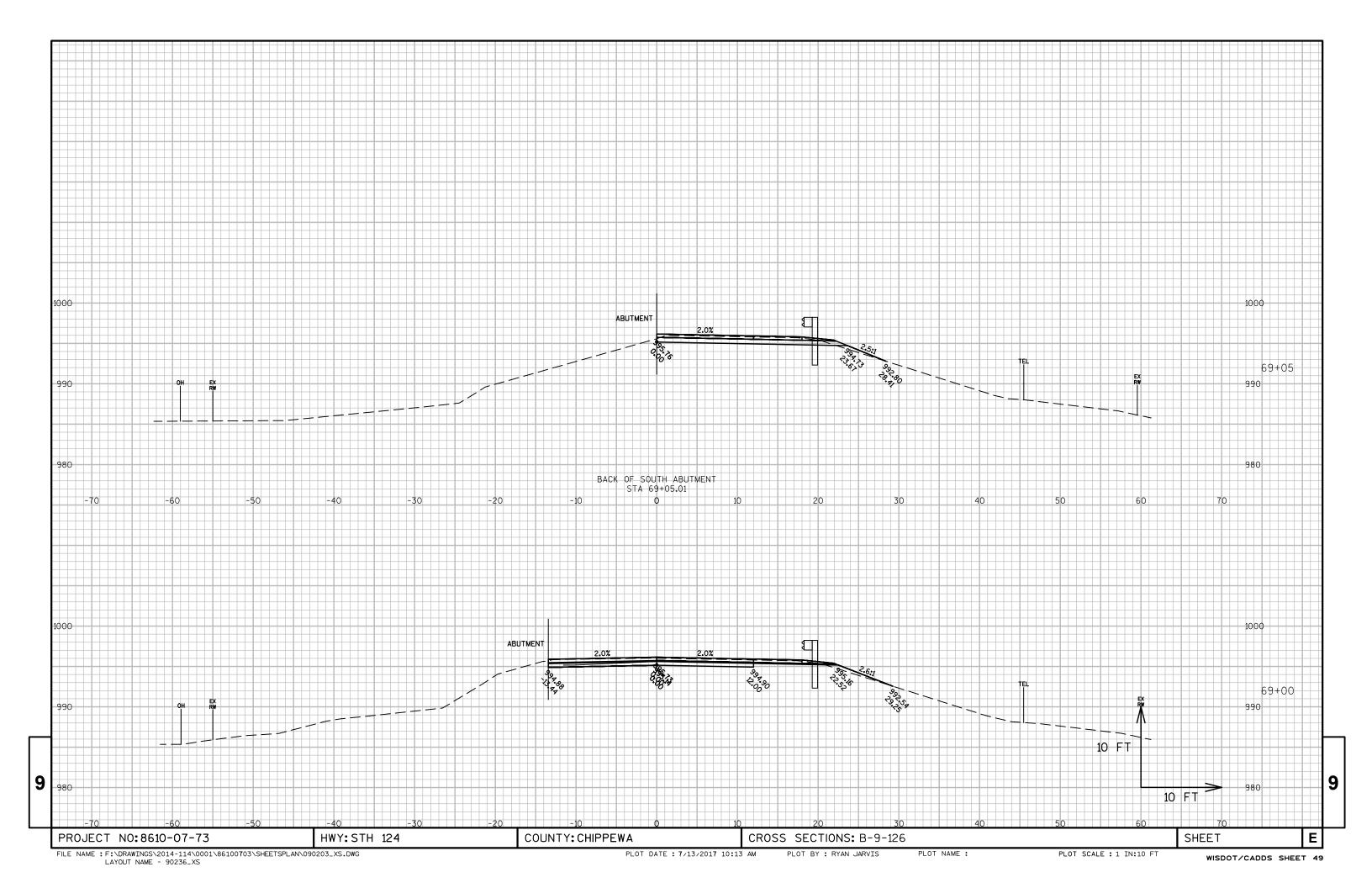


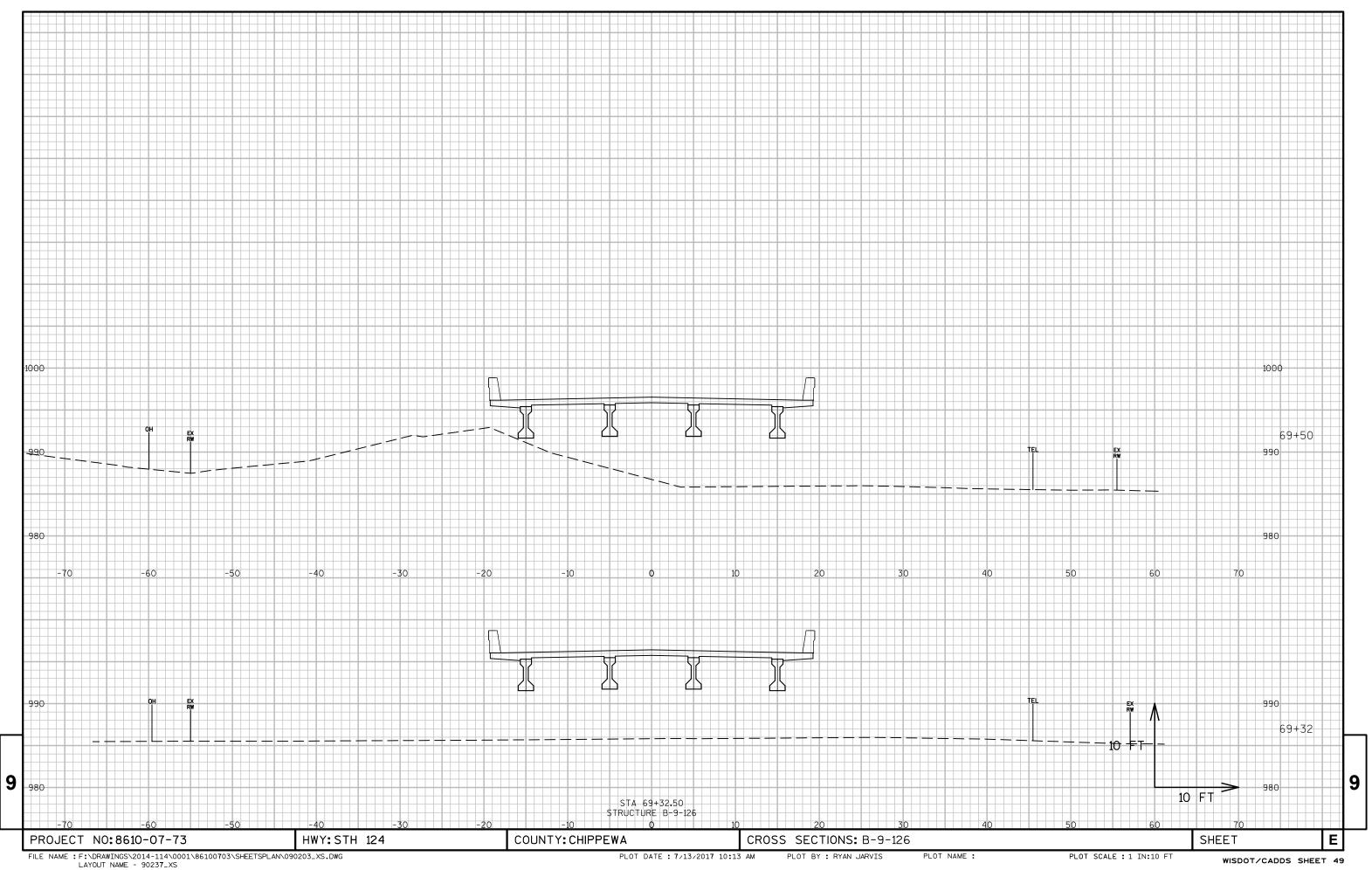


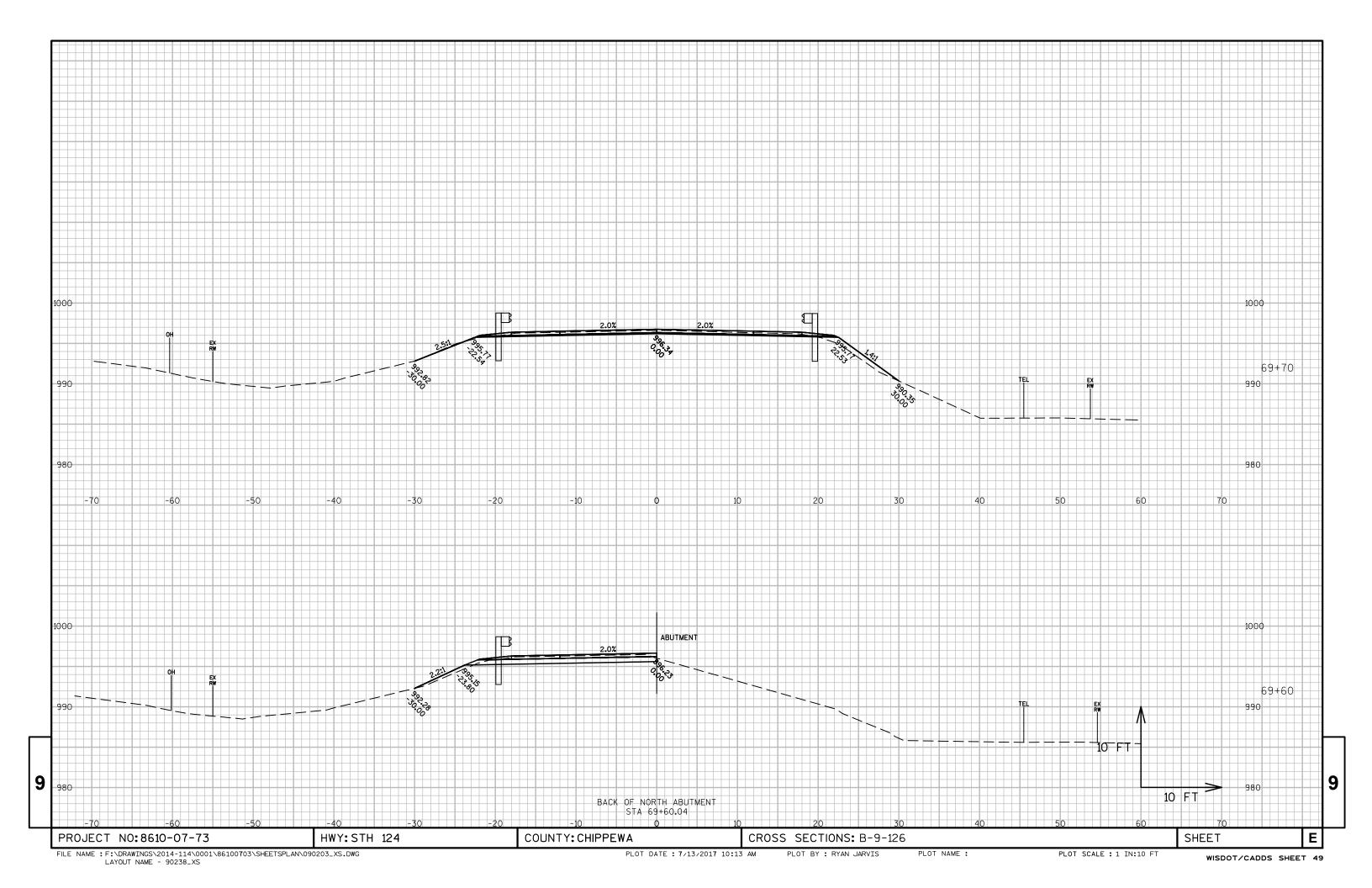


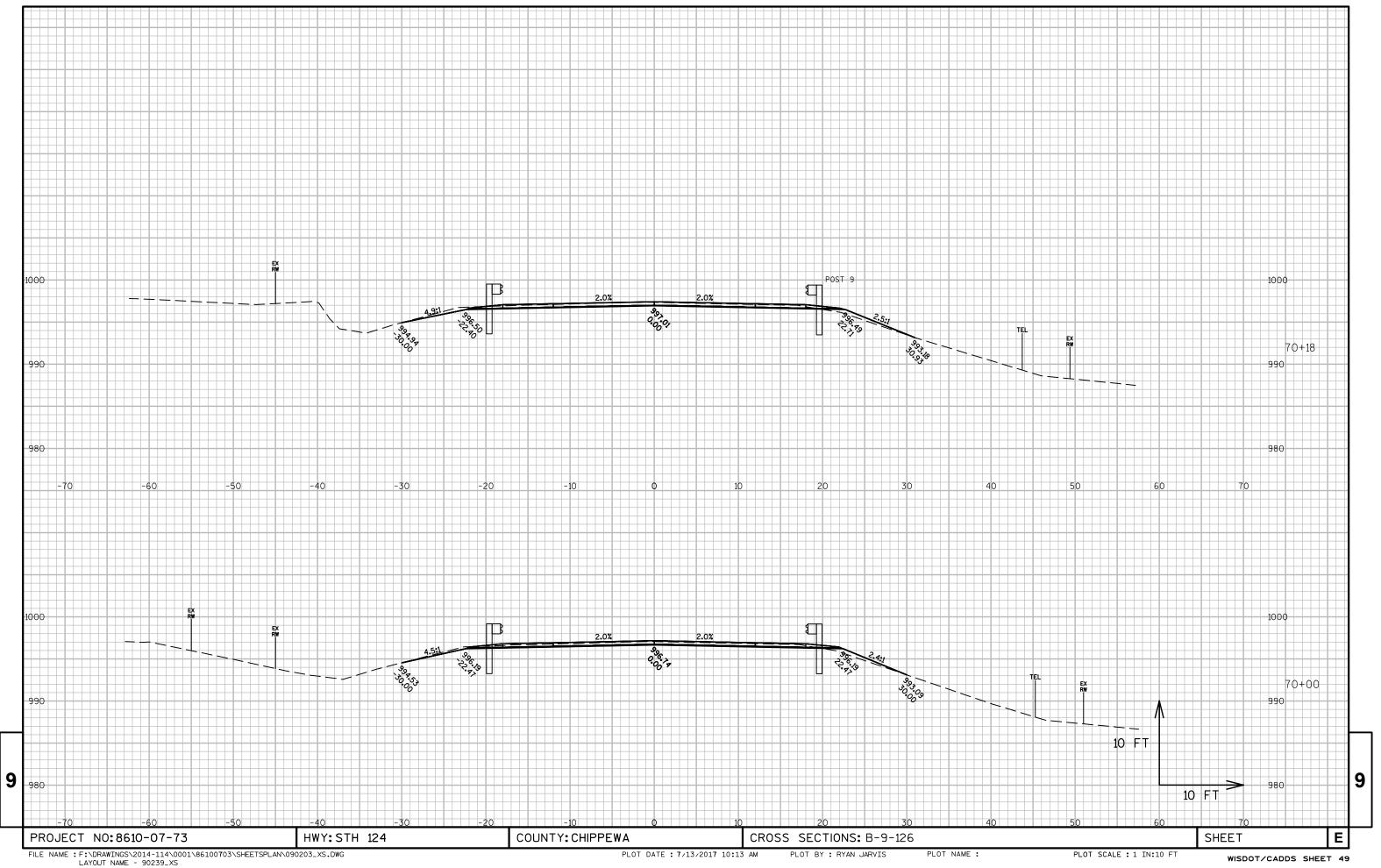


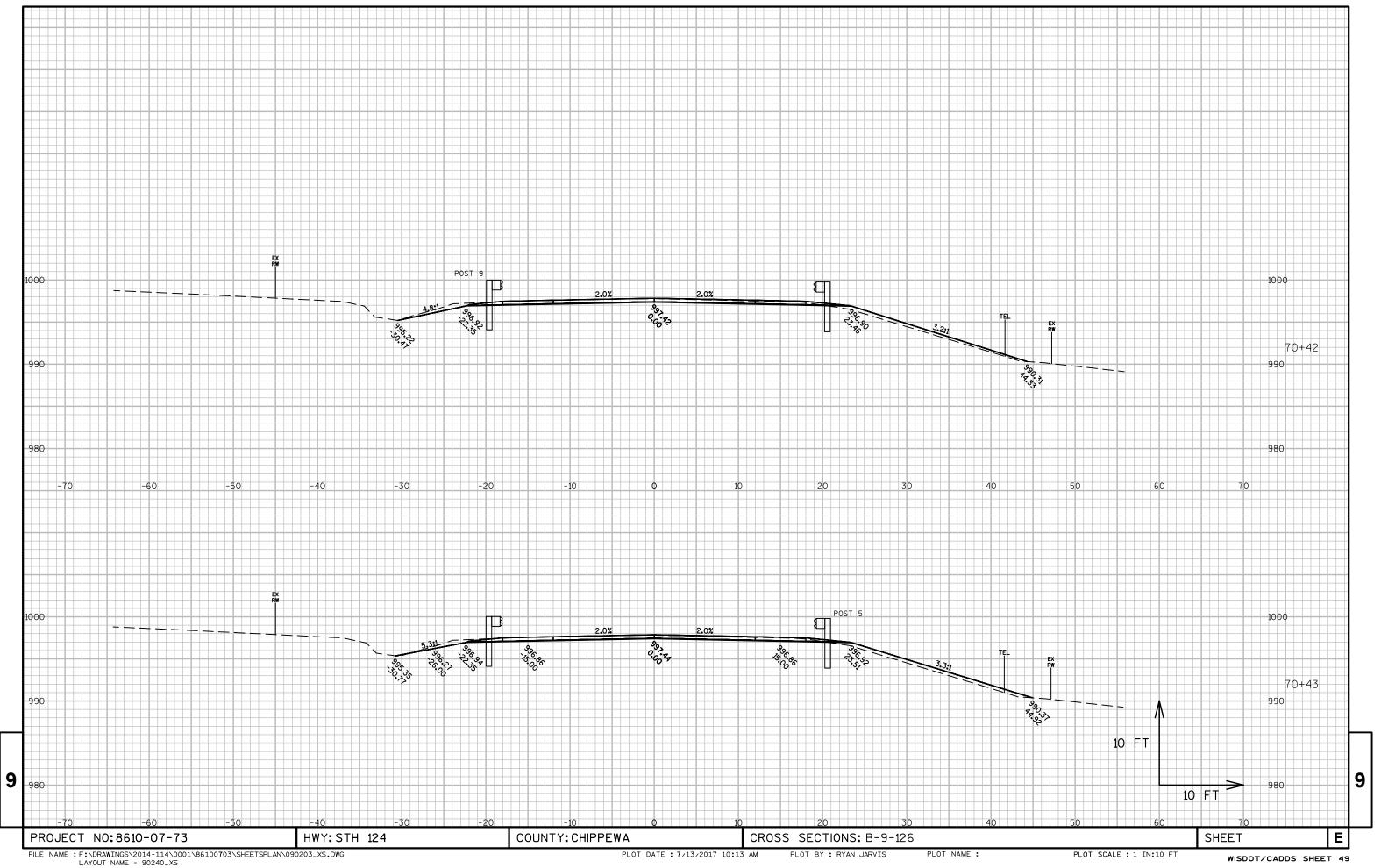


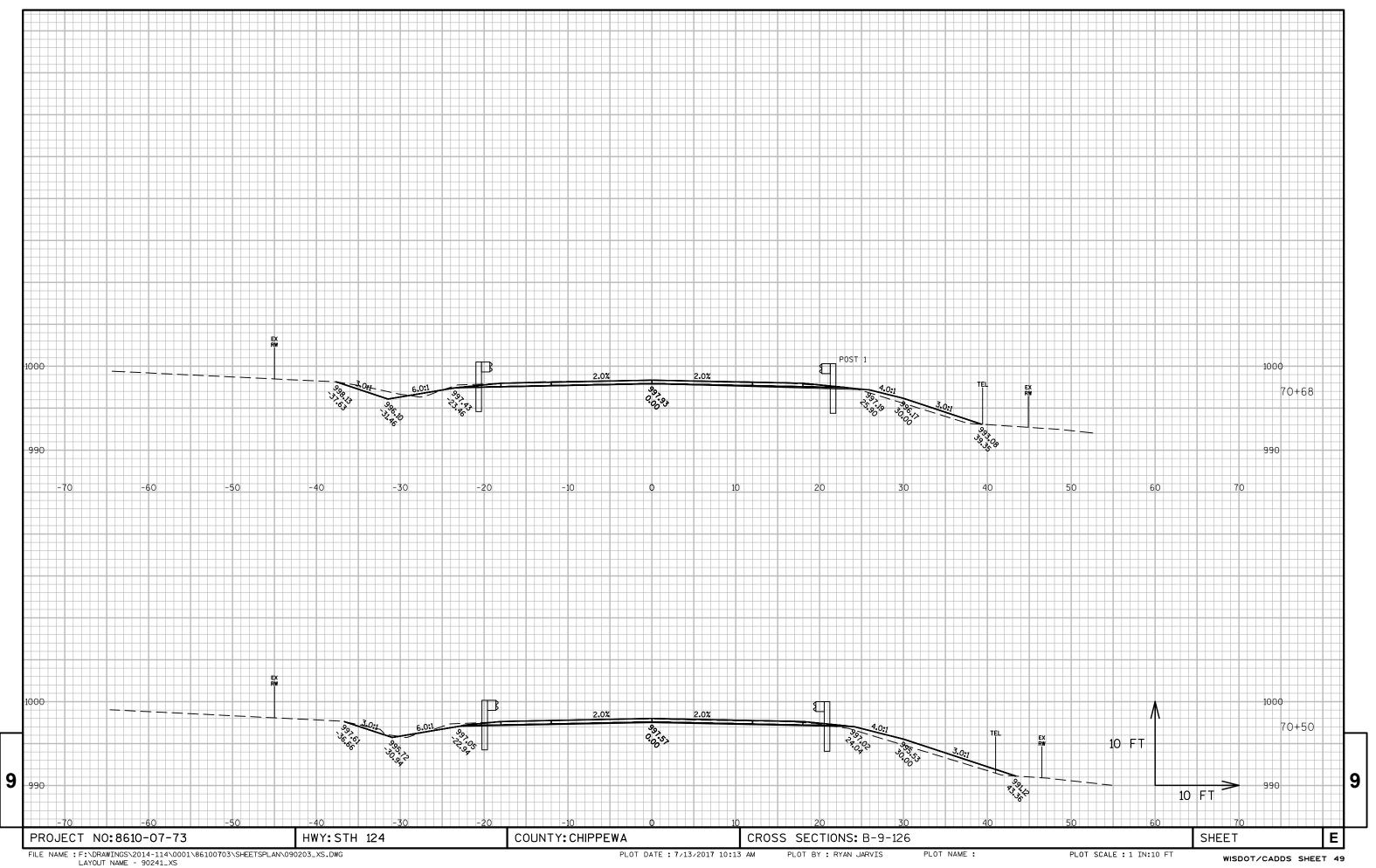


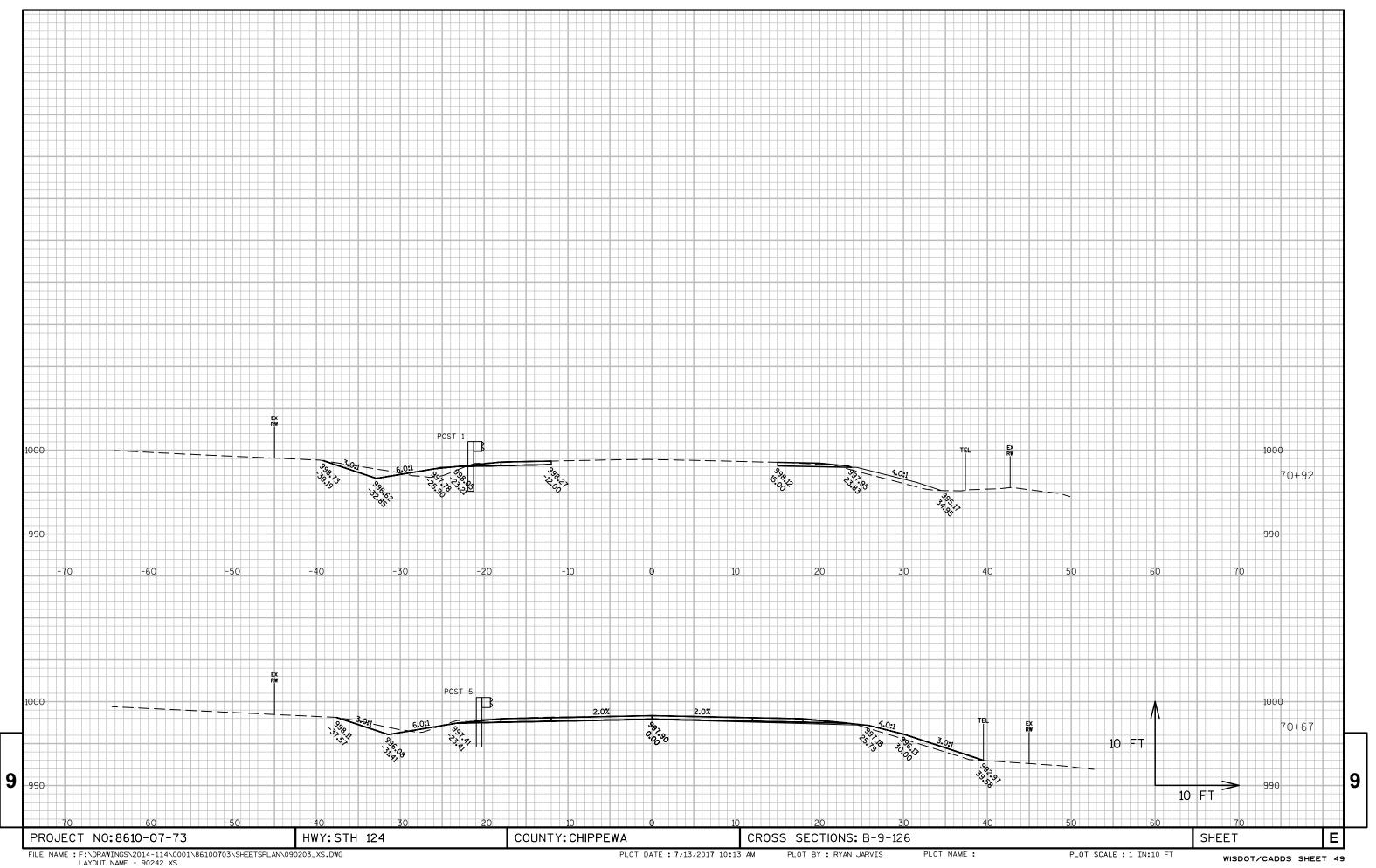


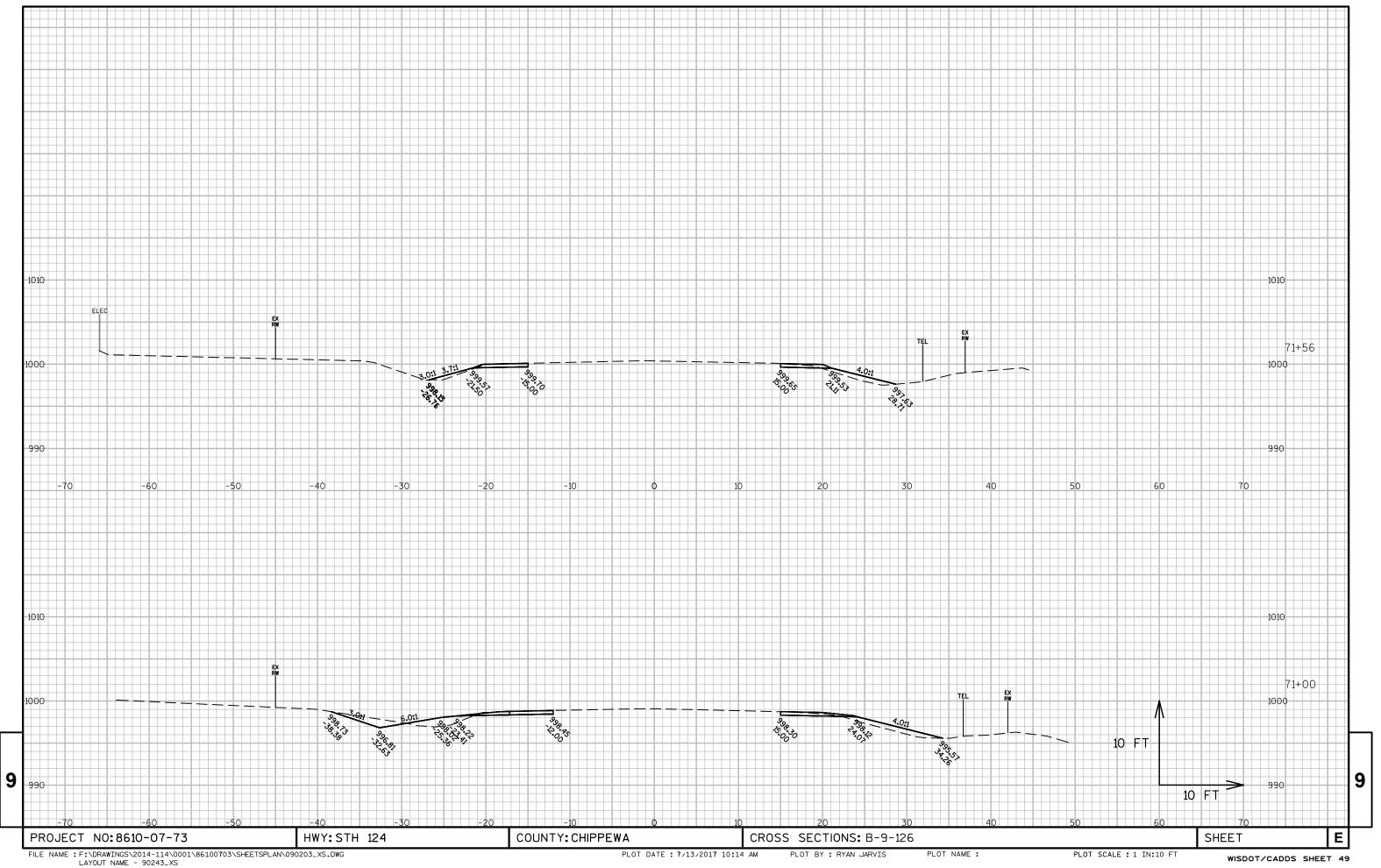


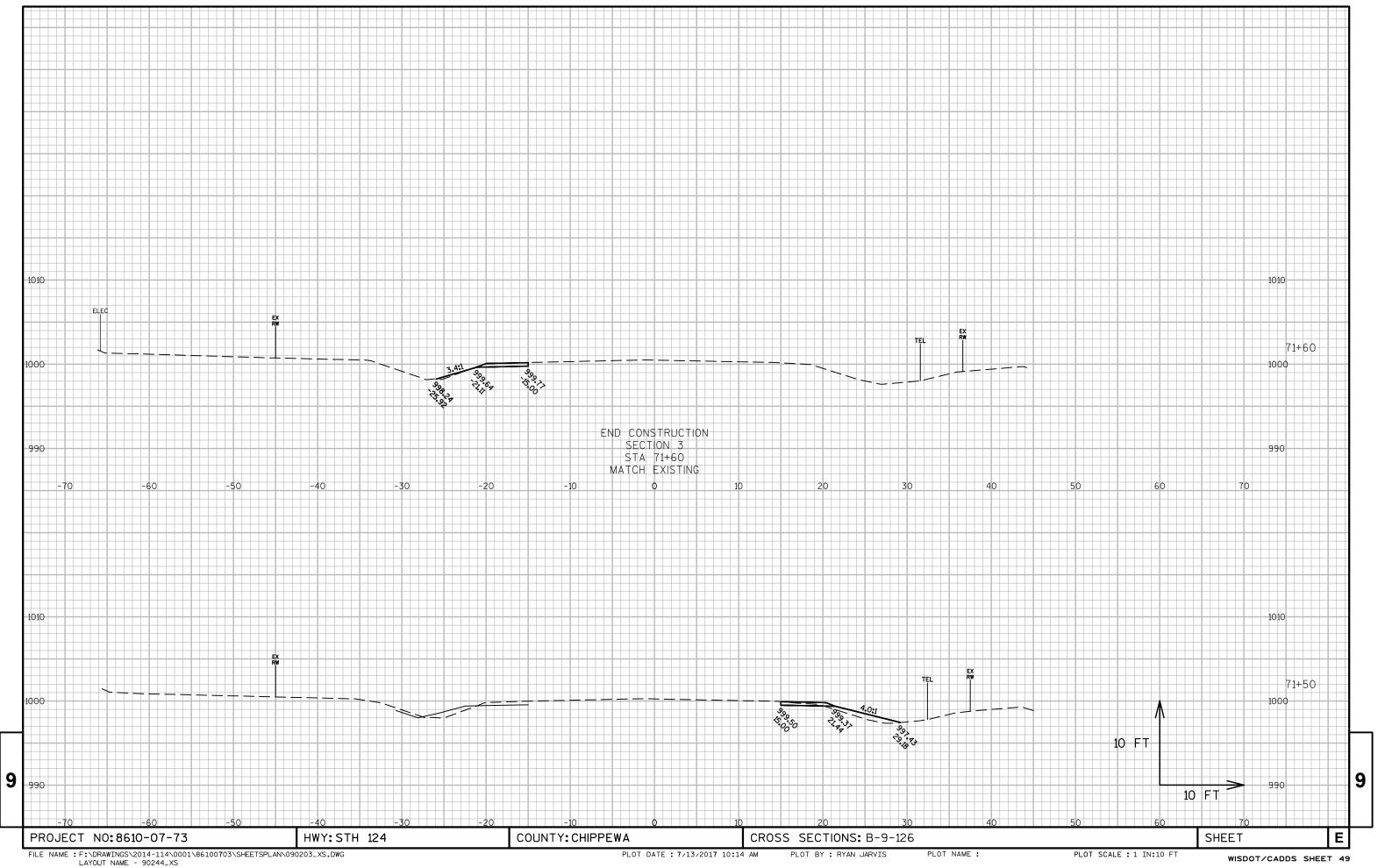


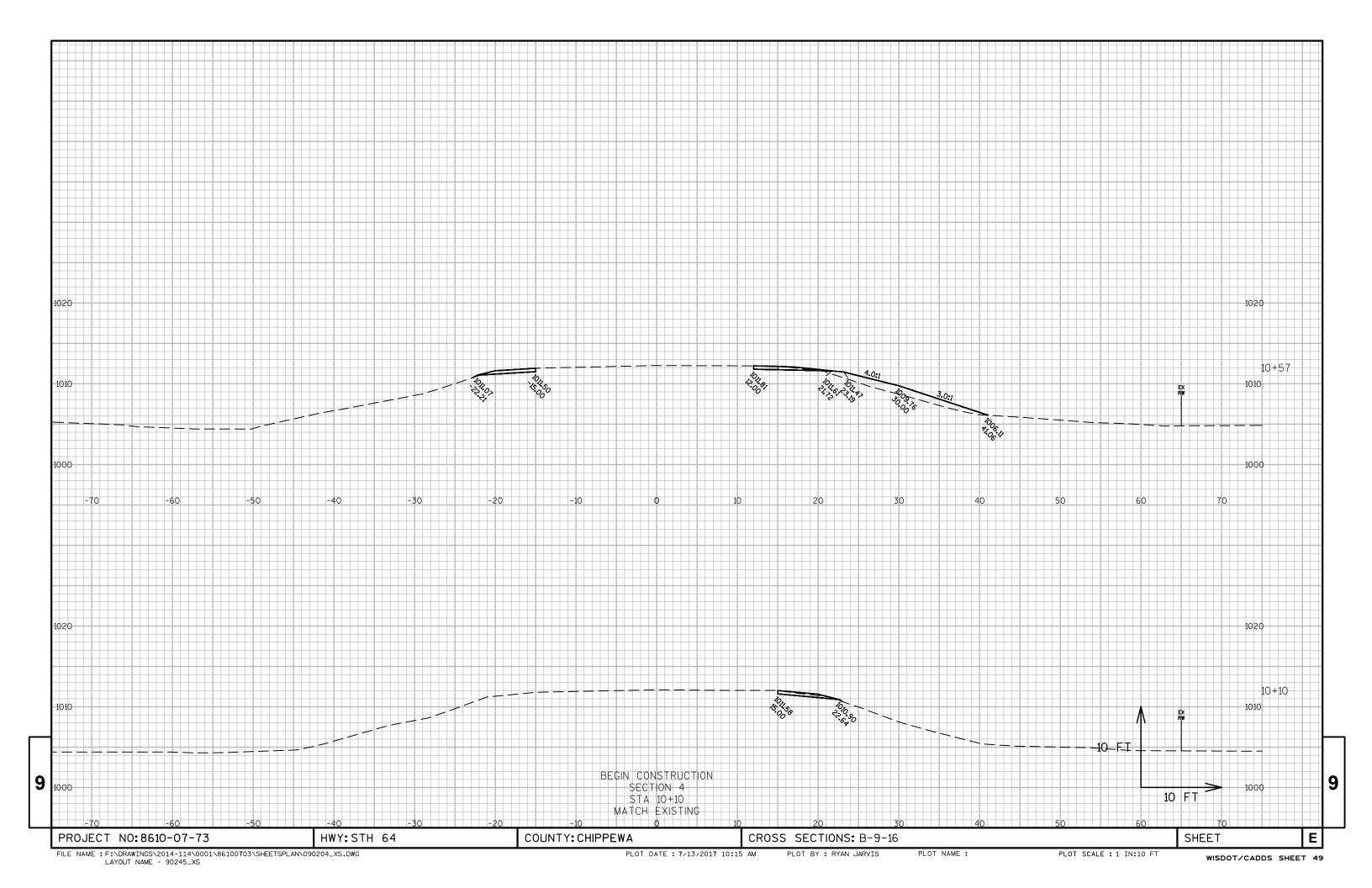


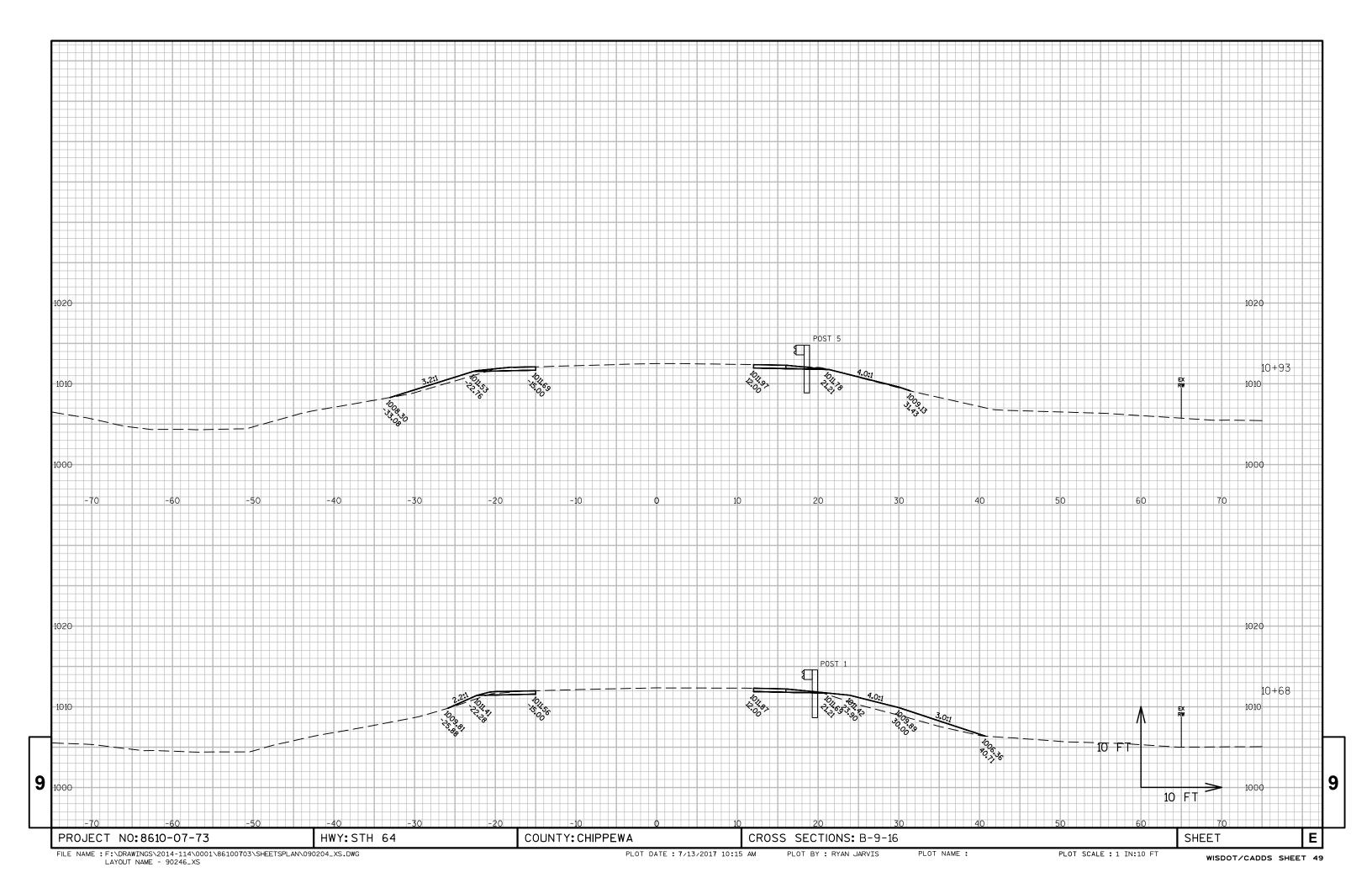


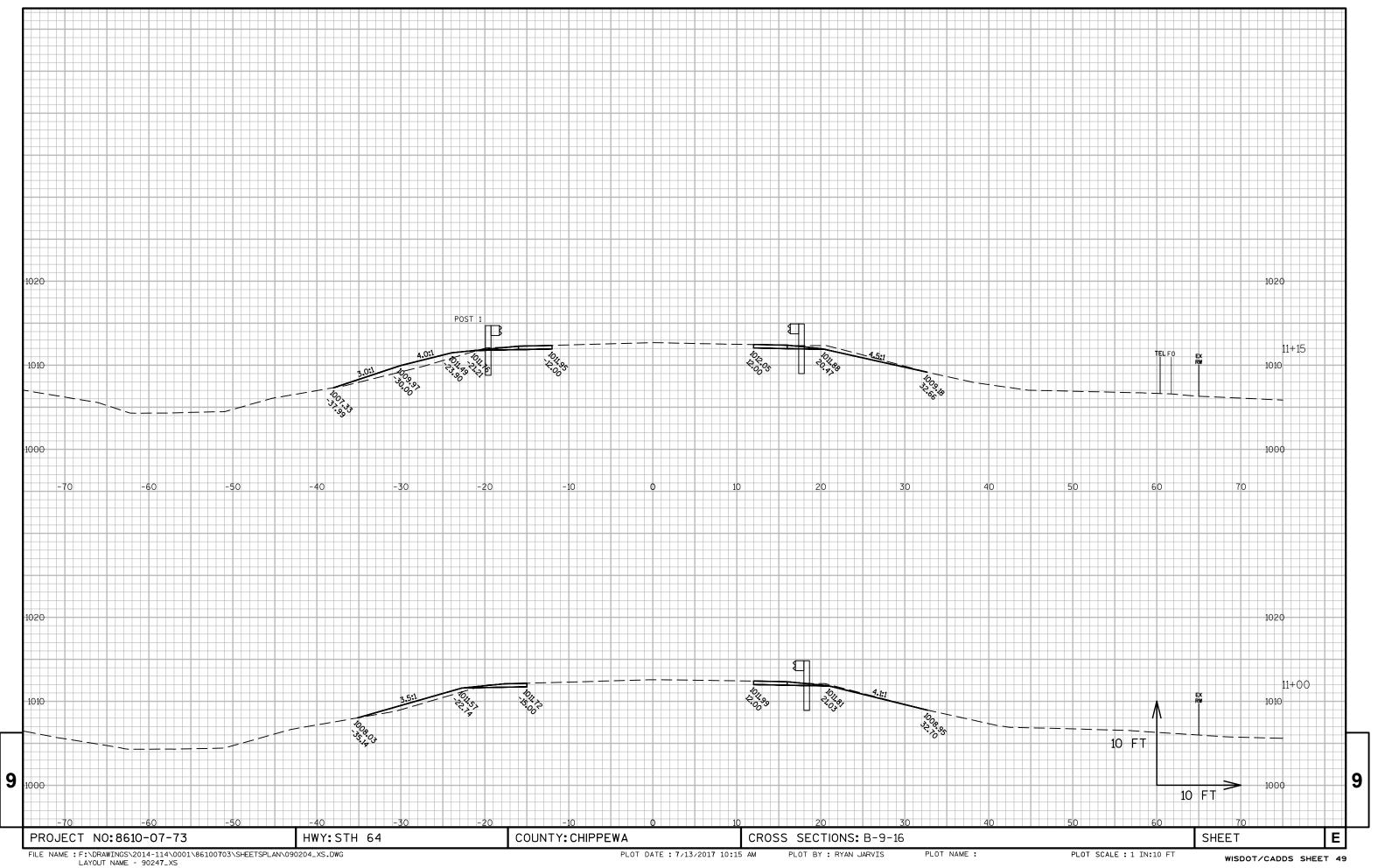


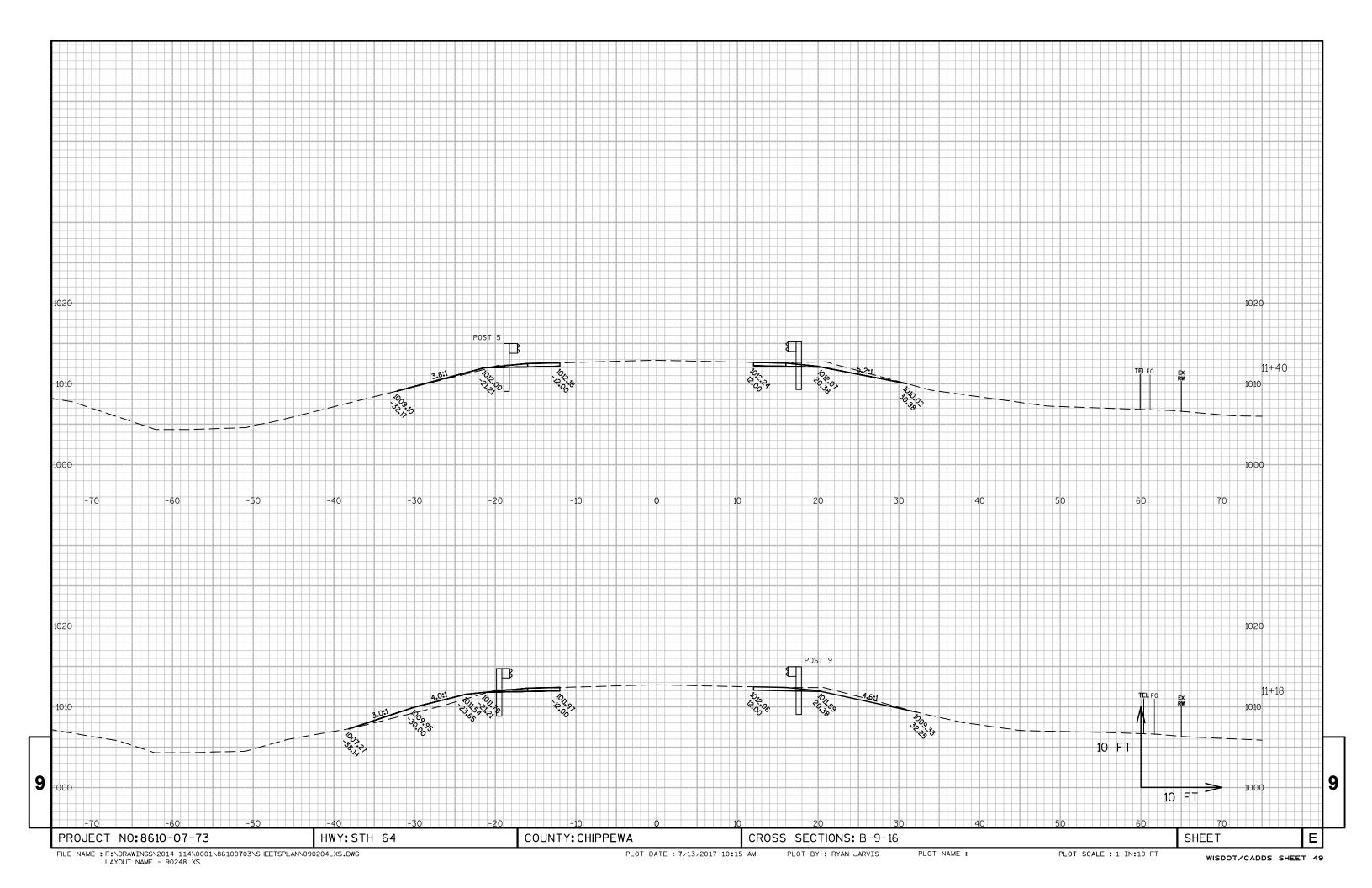


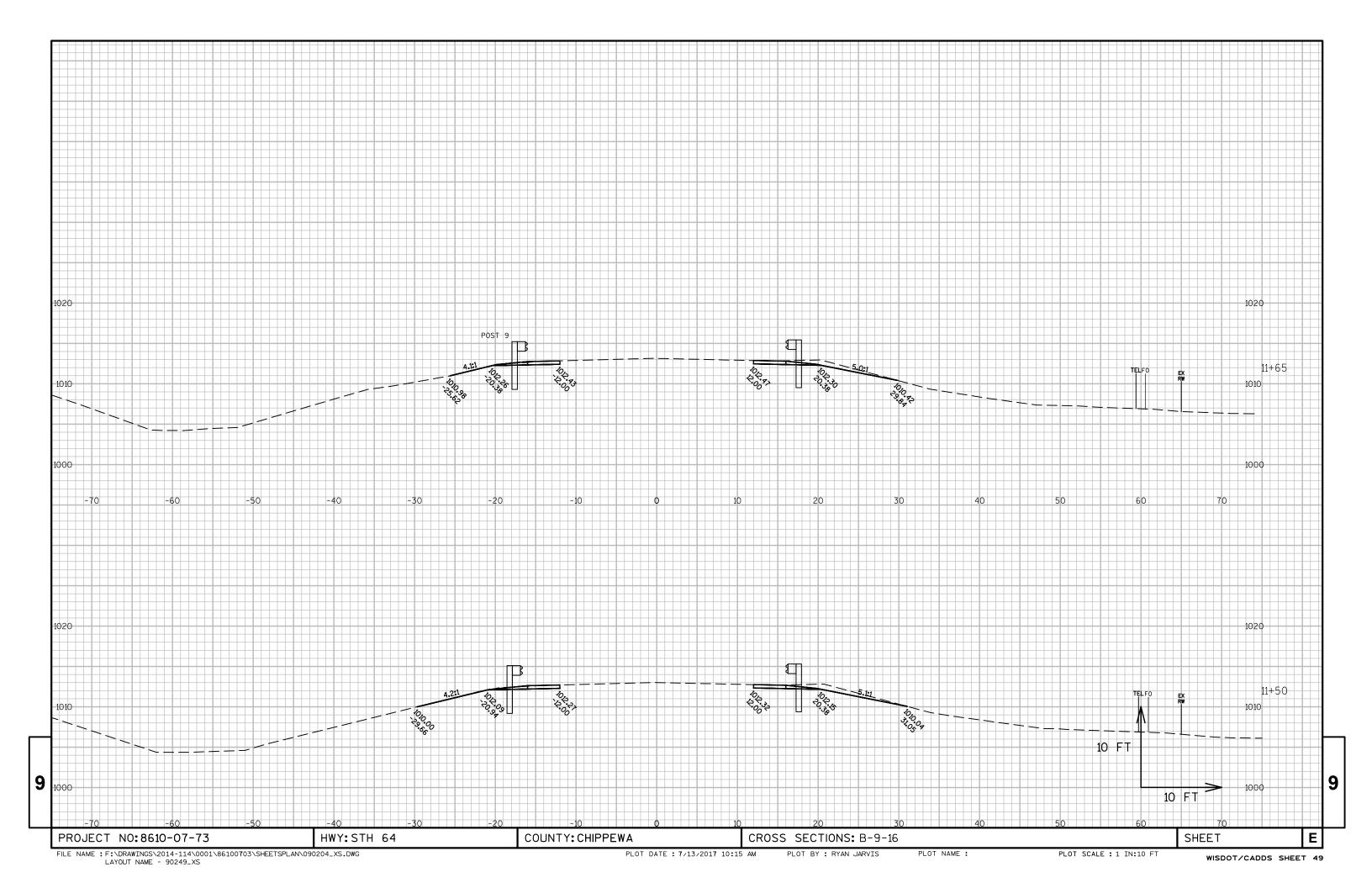


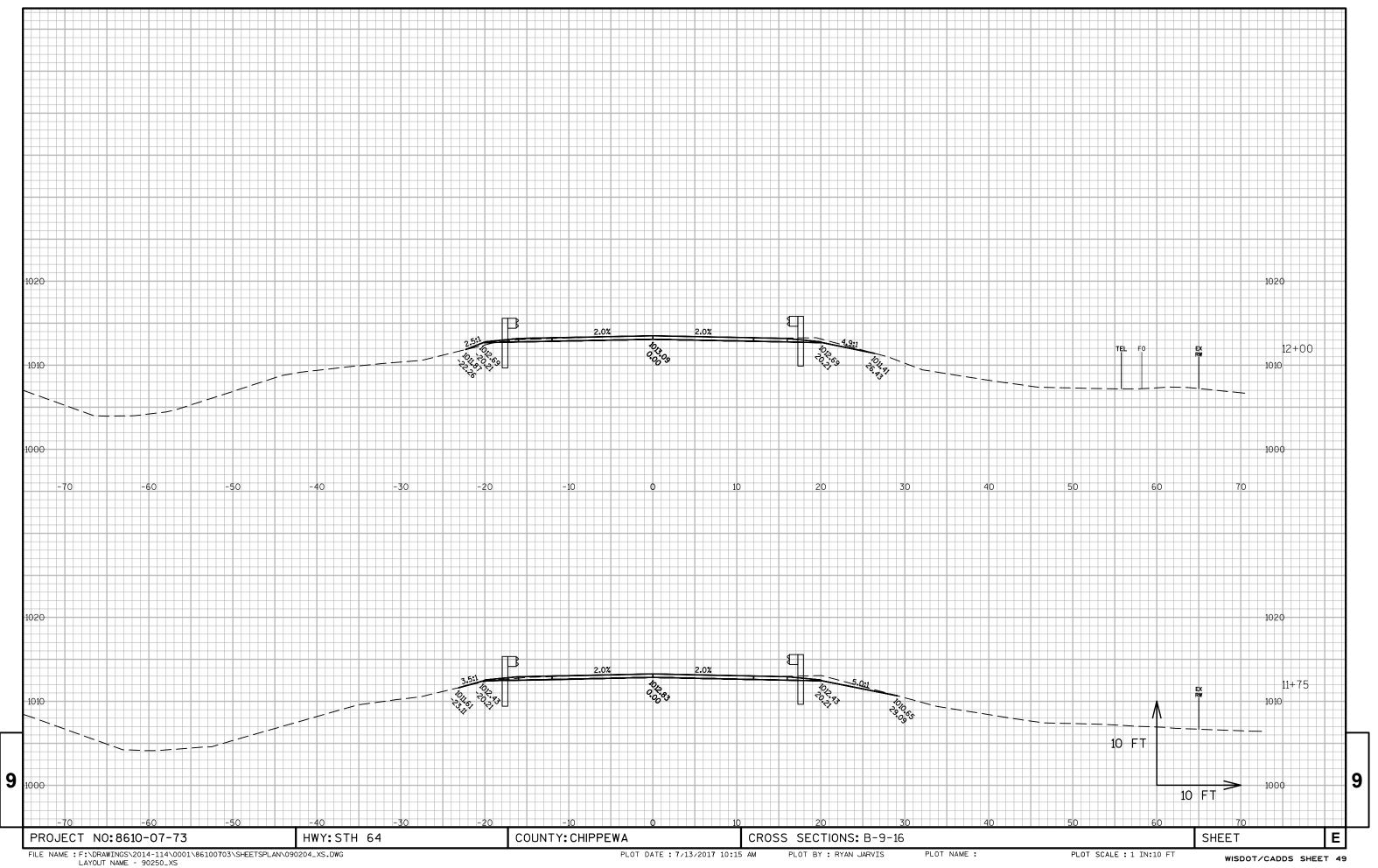


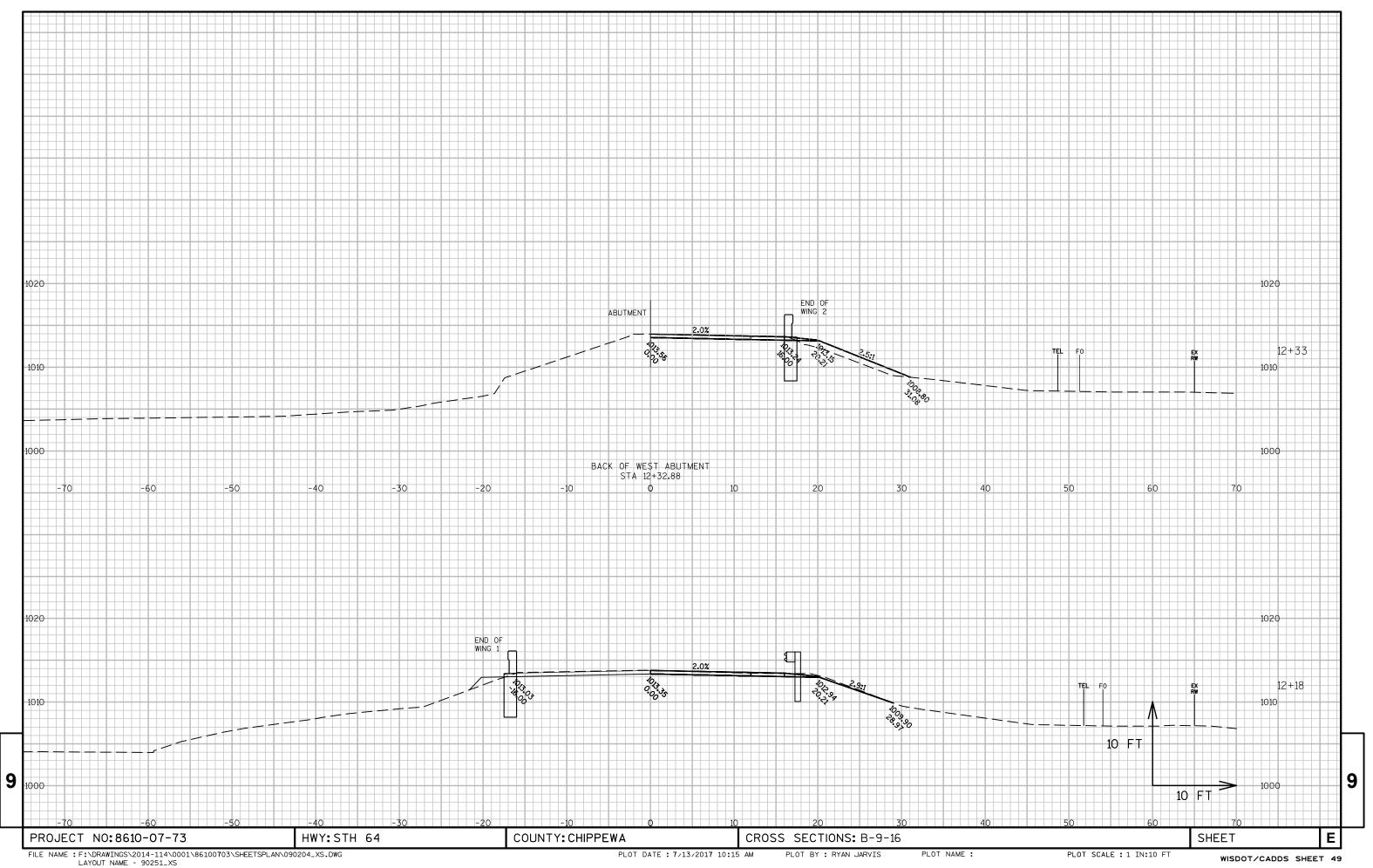


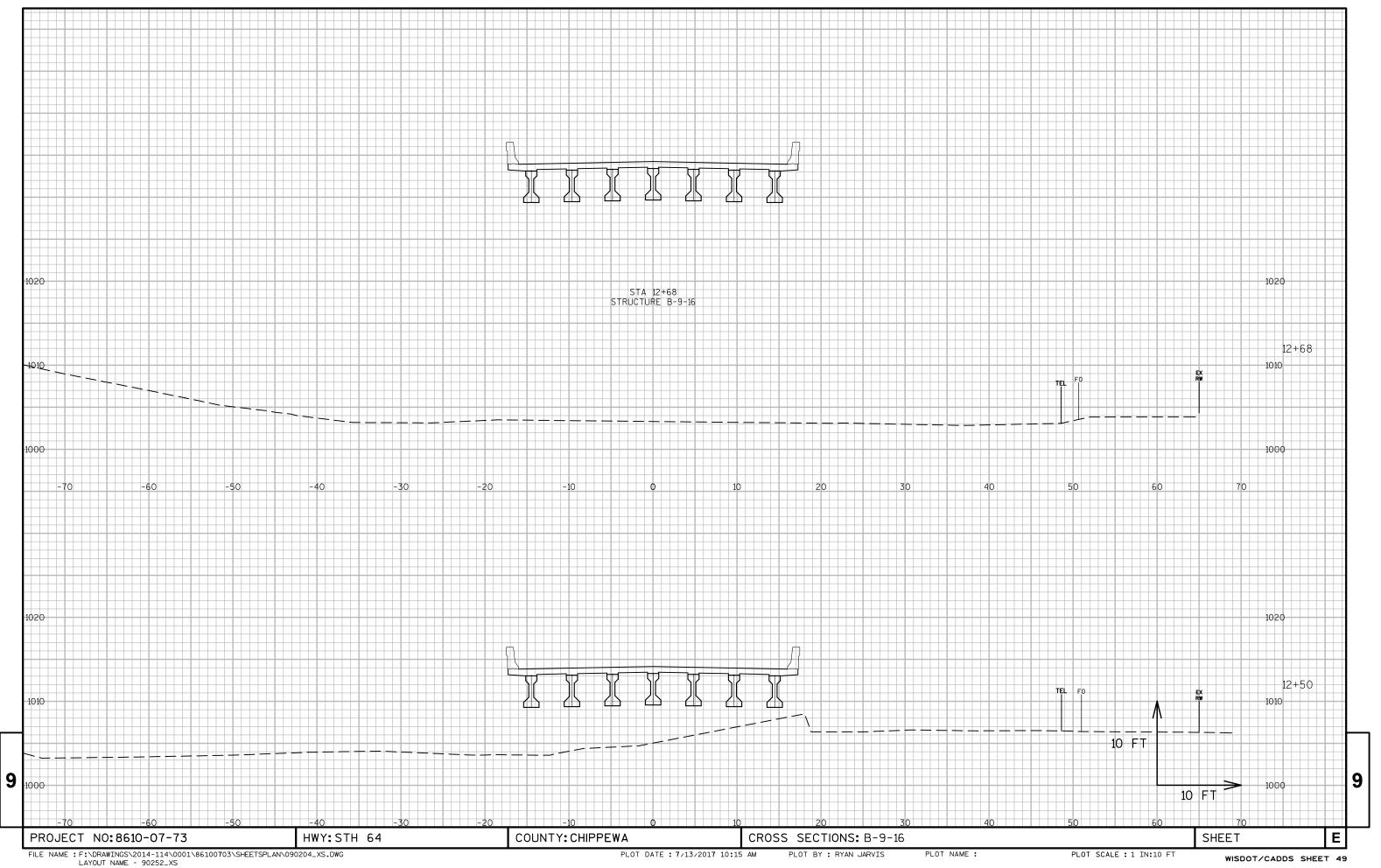


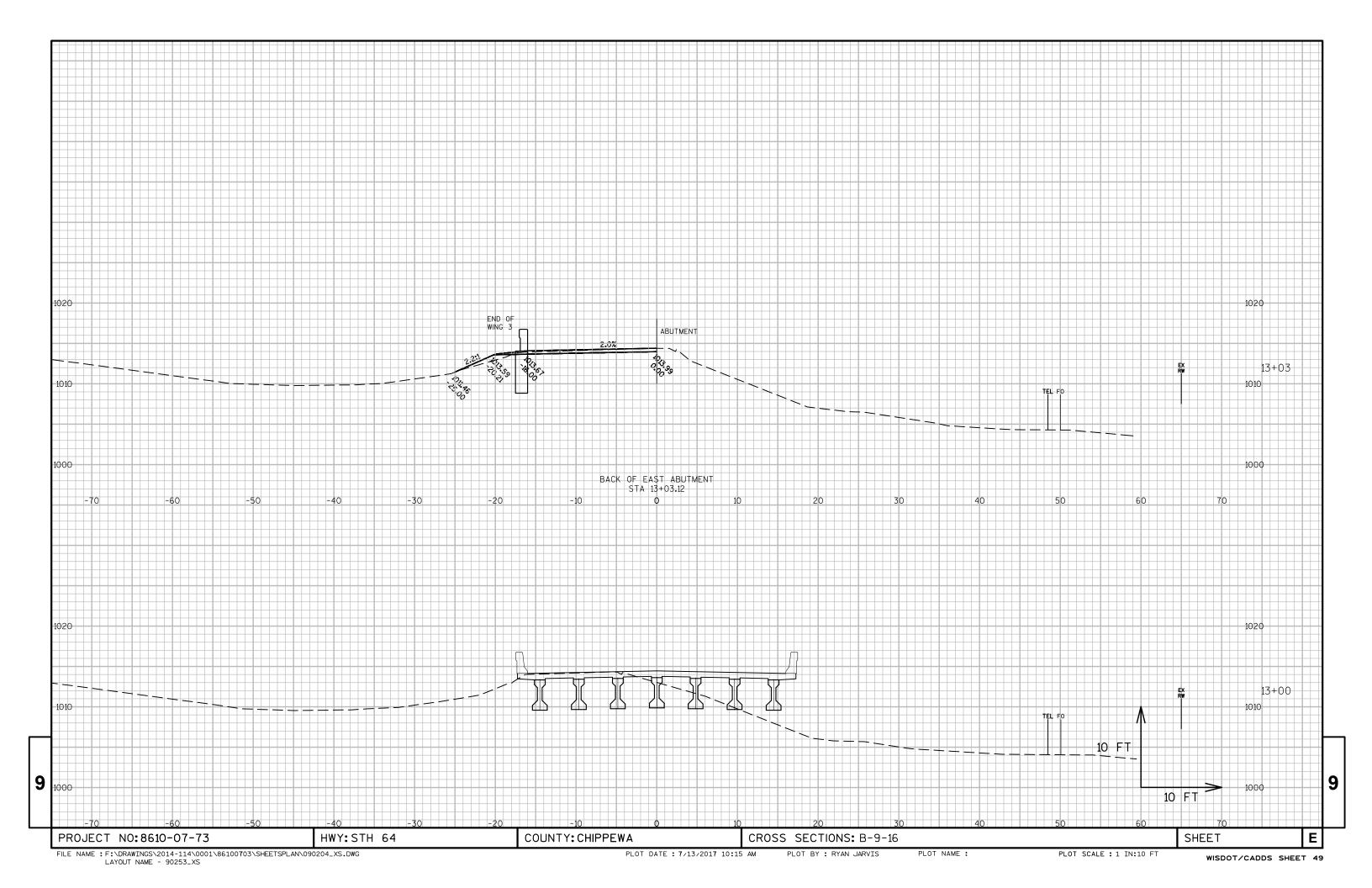


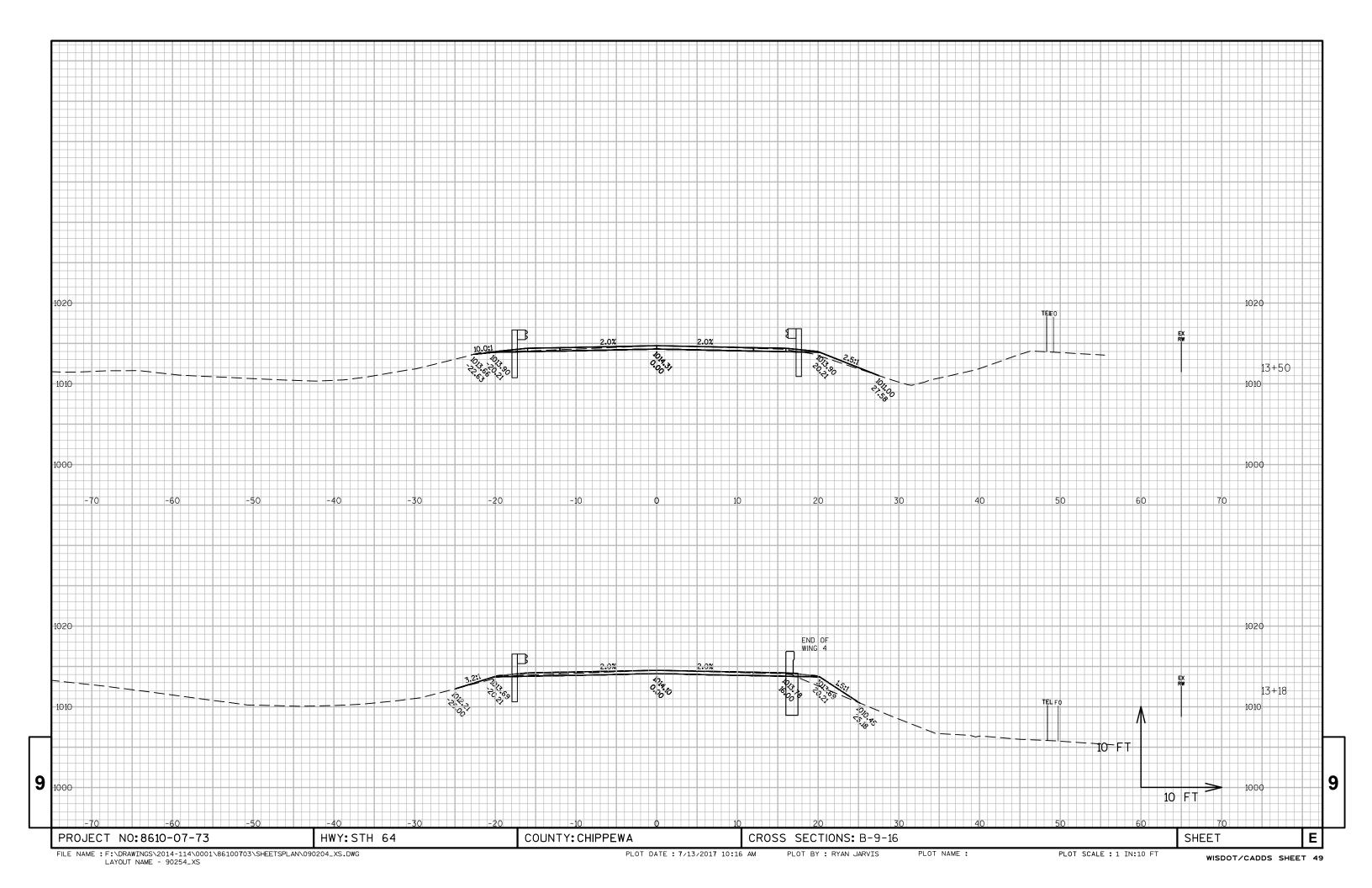


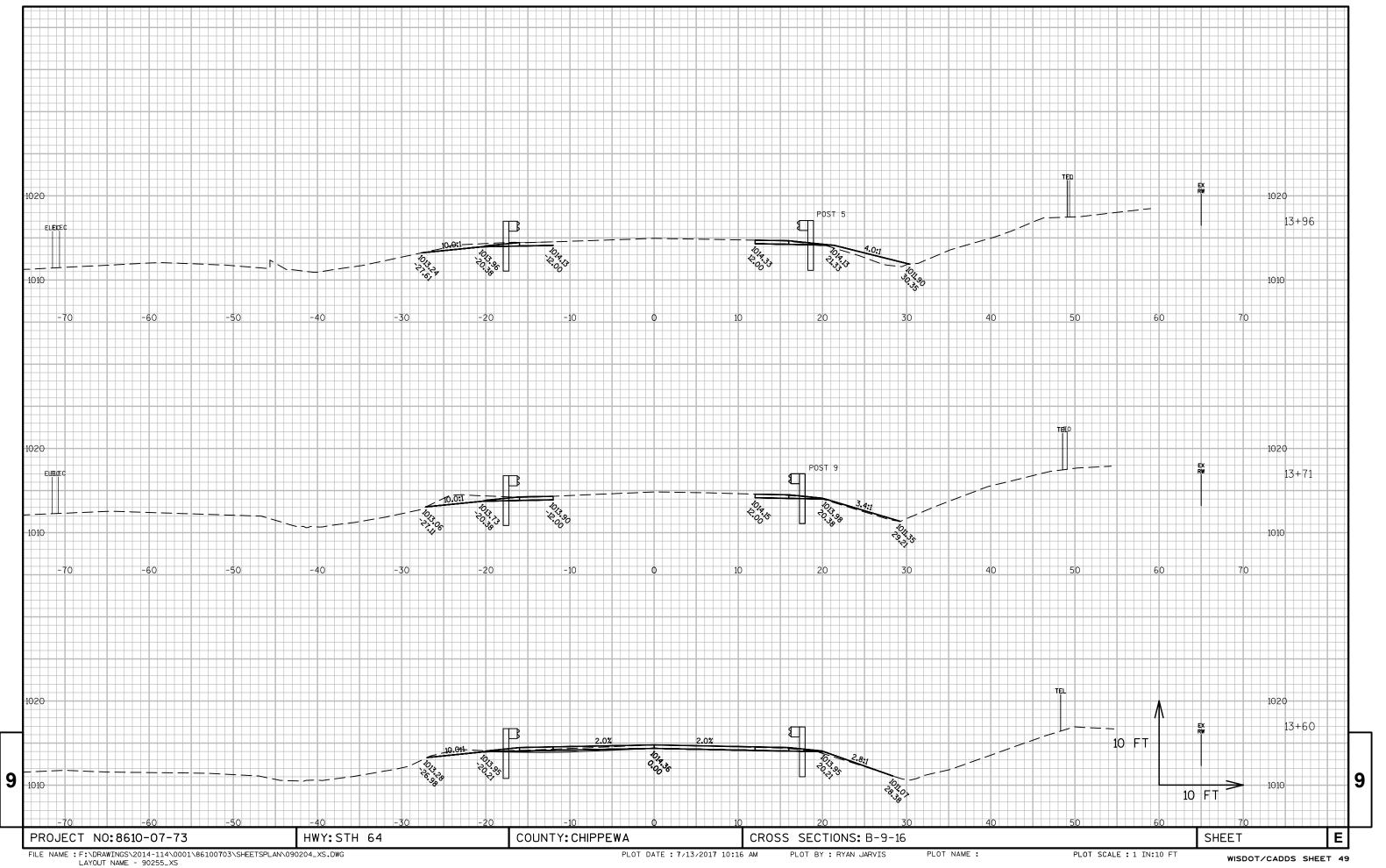


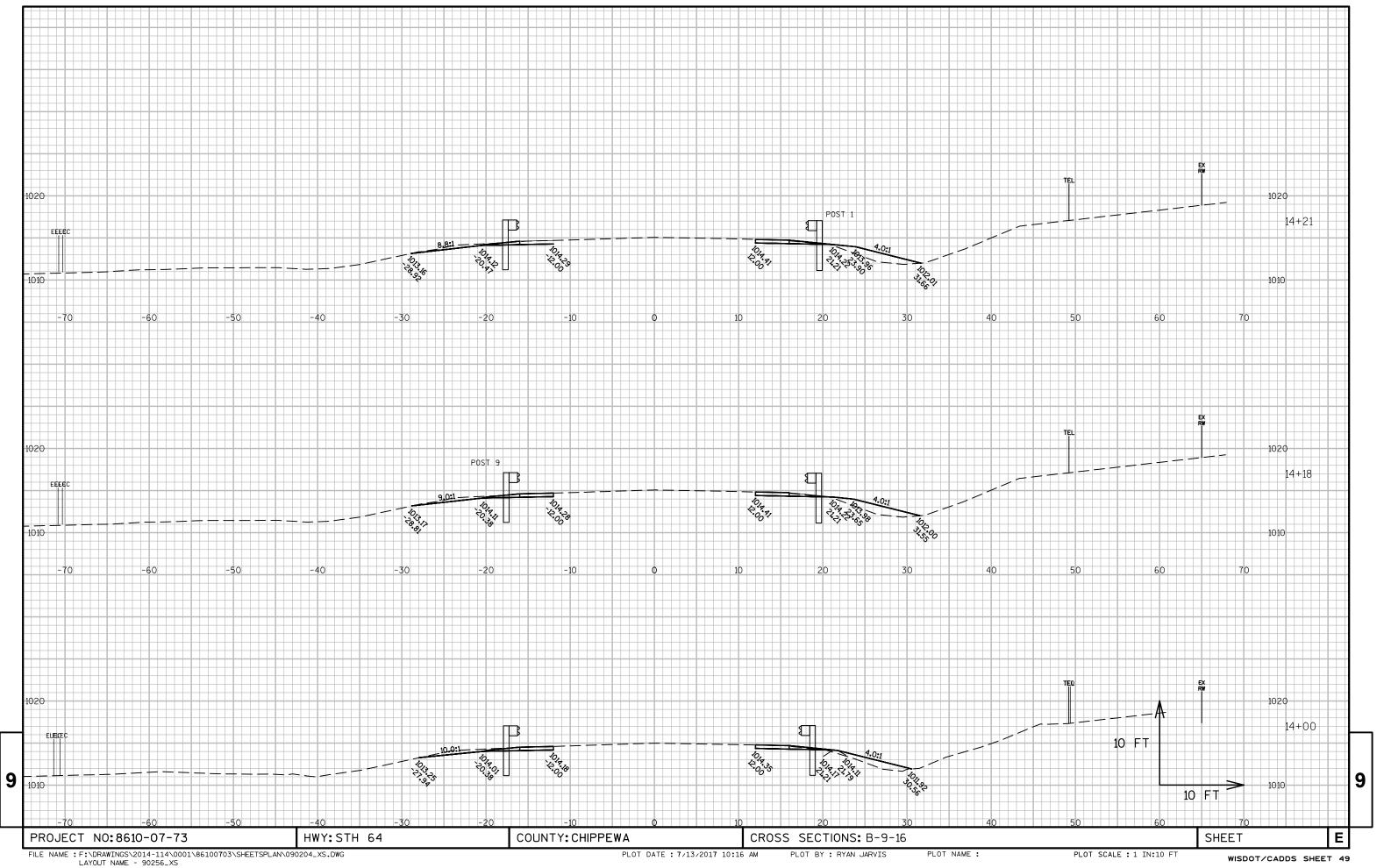


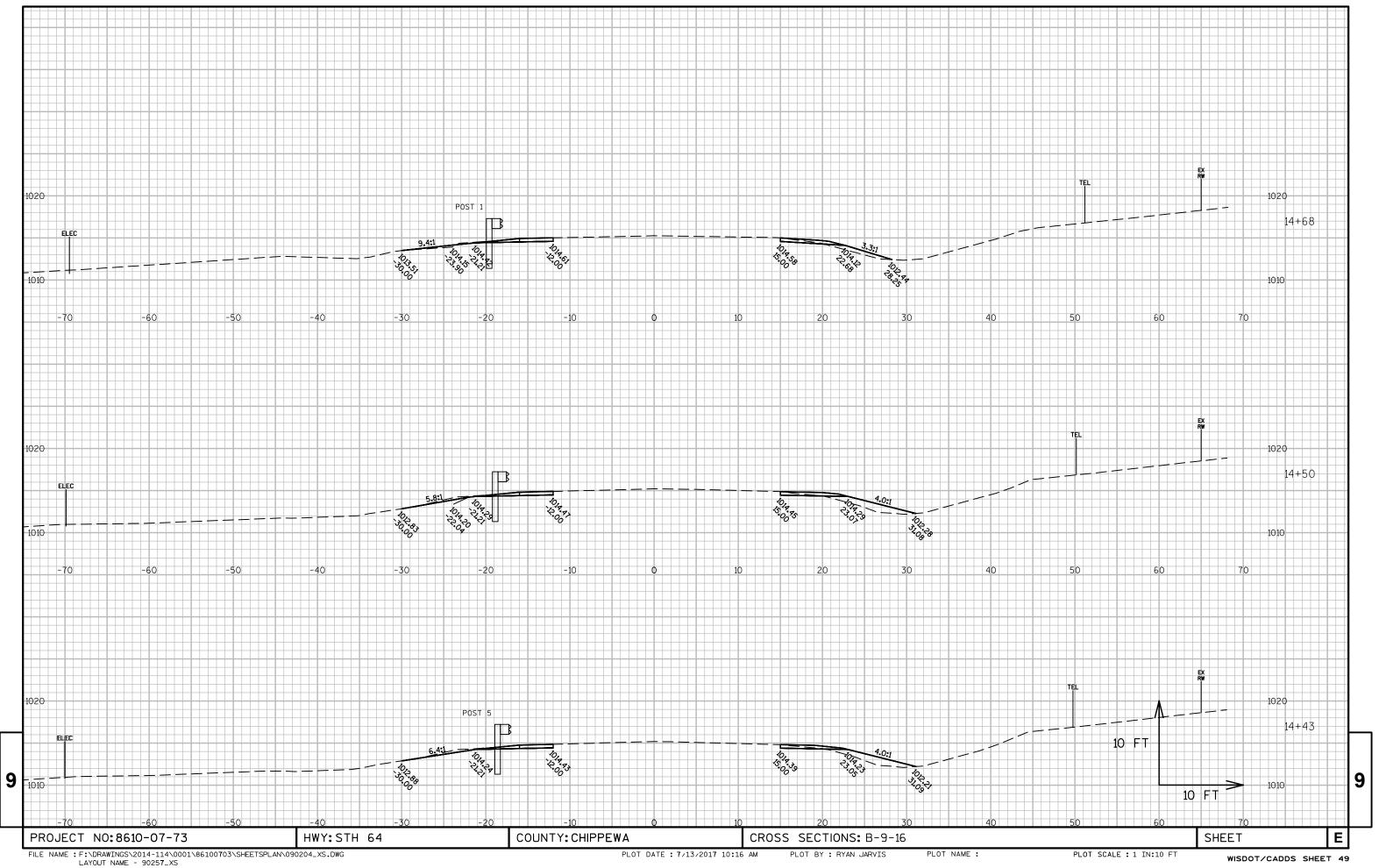


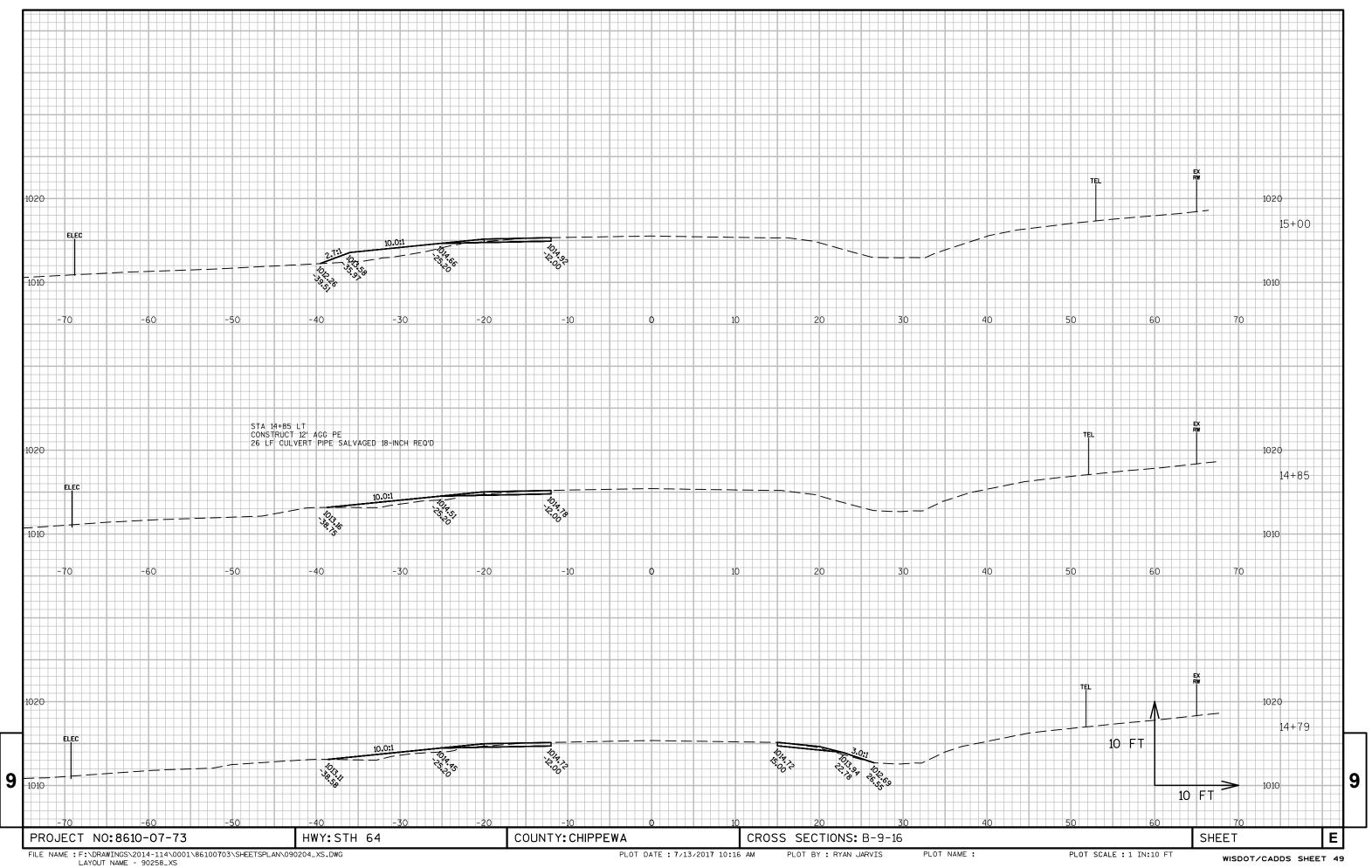












Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov