SUP MAY 2021 STATE OF WISCONSIN ORDER OF SHEETS 8732-00-72 PROJECT ID: DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities Section No. PLAN OF PROPOSED IMPROVEMENT Plan and Profile Section No Section No. Standard Detail Drawings 00 CABLE - ECL Section No. Sign Plates co SPRUCE STREET TO FRELS ROAD Section No. Cross Sections CTH M TOTAL SHEETS = 98 **BAYFIELD COUNTY PROJECT LOCATION** STATE PROJECT NUMBER 8732-00-72 63 10 Sixteen! Bas DESIGN DESIGNATION A.A.D.T. A.A.D.T. = 3450 (2041) D.H.V. = 131 D.D. = 5.3% **DESIGN SPEED** = 55 = 270,000 **BEGIN PROJECT** STA 100+66 Y = 319186.842 **END PROJECT** UU CONVENTIONAL SYMBOLS X = 715959.089STA 387+00 **PROFILE** Y = 316383.79 GRADE LINE CORPORATE LIMITS 1////// X = 744189.18 ORIGINAL GROUND PROPERTY LINE Cr. _ ROCK_ MARSH OR ROCK PROFILE m LOTLINE (To be noted as such) LABEL SPECIAL DITCH LIMITED HIGHWAY EASEMENT **EXISTING RIGHT OF WAY** GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER LAYOUT COMBUSTIBLE FLUIDS STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN TELEPHONE SCALE COORDINATE REFERENCE SYSTEM (WISCRS), BAYFIELD COUNTY, NAD83 (2019). IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID WATER MARSH AREA COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES X UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 5.423 MI ARE THE SAME AS GROUND DISTANCES, ELEVATIONS ARE REFERENCED POWER POLE TO NAVD 88 (2019). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A. TELEPHONE POLE WOODED OR SHRUB AREA PLOT DATE: 1/26/2021 1:53 PM PLOT BY: AARON SCHARF PLOT NAME : FILE NAME : G:\2019-PROJ\19467123\C3D\SHEETSPLAN\010101_TI.DWG



UTILITIES

BAYFIELD ELECTRIC COOPERATIVE ATTN: JAKE HIPSHER 68460 DISTRICT ST., P.O. BOX 68 IRON RIVER, WI 54847 715-372-4287 JAKE.HIPSHER@BAYFIELDELECTRIC.COM

XCEL ENERGY, INC. ATTN: MITCHELL DIENGER 414 NICOLLED MALL, 5TH FLOOR MINNEAPOLIS, MN 55401 608-386-2233 MITCHELL.A.DIENGER@XCELENERGY.COM

NORVADO ATTN: GARIN MAYER 43705 US HWY 63 **CABLE, WI 54821** 715-798-3303 GMAYER@NORVADO.COM

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE

DESIGN CONSULTANT



COOPER ENGINEERING CO. INC. ATTN: AARON SCHARF 2600 COLLEGE DRIVE RICE LAKE, WI. 54868 PHONE (715) 234-7008 ASCHARF@COOPERENGINEERING.NET

BAYFIELD COUNTY

BAYFIELD COUNTY HIGHWAY COMMISSIONER ATTN: PAUL JOHANIK 311 1ST AVE E WASHBURN, WI 54891 715-373-6115 PJOHANIK@BAYFIELDCOUNTY.ORG

OTHER CONTACTS

DNR NORTHERN REGIONAL HQ

DNR/DOT LIAISON ATTN.: SHAWN HASELEU 810 W. MAPLE ST. SPOONER, WI 54801 TEL.: (715) 635-4228

EMAIL: SHAWN.HASELEU@WISCONSIN.GOV

GENERAL NOTES:

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

ACCESS TO ALL RESIDENCES SHALL BE MAINTAINED DURING CONSTRUCTION.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOW SHOWN.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE DENSE IS MEASURED BY THE TON, THE DEPTH OR THICKNESS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE

RESTORE SIDEROAD INTERSECTIONS AND PRIVATE ENTRANCES TO EXISTING CONDITIONS

THE EXACT CONSTRUCTION LIMITS OF PRIVATE ENTRANCES SHALL BE COORDINATED WITH

PAVEMENT MARKING SHALL MEET MUTCD STANDARDS.

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RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
			A		6	В		С			D		
	SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT)				SL	OPE RAN	GE (PERCENT)	SLOPE RANGE (PERCENT)					
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:	•			•						•			
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS						.7585							
ROOFS			·			.7595			·	·			
GRAVEL ROADS, SHO	DULDERS					.4060						· ·	

TOTAL PROJECT AREA = 43 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 20 ACRES

LIST OF STANDARD ABBREVIATIONS

ABUT	ABUTMENT		_
AC .	ACRES	LT.	LEFT
AGG	AGGREGATE	LS	LUMP SUM
AH	AHEAD	MH	MANHOLE
ADT	AVERAGE DAILY TRAFFIC	N NC	NORTH NORMAL CROWN
AVG.	AVERAGE	PAVT	PAVEMENT
ASPH	ASPHALTIC	PC	POINT OF CURVATURE
BK.	BACK	PE	PRIVATE ENTRANCE
BM		PI	POINT OF INTERSECTION
	BENCHMARK	PL	PROPERTY LINE
Δ	CENTRAL ANGLE OR DELTA	PP	POWER POLE
ℚ, C/L	CENTERLINE		
C & G	CURB AND GUTTER	PT R	POINT OF TANGENCY
CABC	CRUSHED AGGREGATE	RCCP	RANGE , RADIUS REINFORCED CONCRETE
CONC	BASE COURSE	KCCF	CULVERT PIPE
CONC.	CONCRETE	RD	ROAD
COR	CORNER		
CORR	CORRUGATED	REBAR	REINFORCEMENT BAR
CSCP	CORRUGATED STEEL	REQD	REQUIRED
CSCF	CULVERT PIPE	RDWY	ROADWAY
CSPA	CORRUGATED STEEL	RHF	RIGHT HAND FORWARD
CSFA	PIPE ARCH	RL, R/L	REFERENCE LINE
стн	COUNTY TRUNK HIGHWAY	RR	RAILROAD
		RT.	RIGHT
CP.	CULVERT PIPE	R/W	RIGHT-OF-WAY
CY	CUBIC YARD	S	SOUTH
CWT.	HUNDREDWEIGHT L DIAMETER	SAN S	SANITARY SEWER
D	DEGREE OF CURVE	SDD	STANDARD DETAIL DRAWING
DHV	DESIGN HOURLY VOLUME	SE	SUPER ELEVATION
DWY	DRIVEWAY	SF.	SQUARE FEET
EBS	EXC. BELOW SUB GRADE	SHLDR SPECS	SHOULDER
LUJ	ELEVATION	SPECS SQ.	SPECIFICATIONS SQUARE
ELEC.	ELECTRIC	SS.	STORM SEWER
EXC	EXCAVATION	SY.	SOUARE YARD
EXIST	EXISTING	STH	STATE TRUNK HIGHWAY
E	EAST	ST.	STREET
FE	FIELD ENTRANCE	STA.	STATION
FF.	FACE TO FACE	SW	SIDEWALK
FL, F/L	FLOW LINE	Т	TANGENT
FS	FULL SUPERELEVATION	TC	TOP OF CURB
G	GARAGE	TL, T/L	TRANSIT LINE
GN	GRID NORTH	TEL	TELEPHONE
INTERS	HOUSE	TEMP	TEMPORARY
		TLE	TEMPORARY LIMITED EASEMENT
		TYP	TYPICAL
HYD	HYDRANT	USH	UNITED STATES HIGHWAY
I	INTERSECTION ANGLE	UG	UNDERGROUND
	INTERSECTION	V	DESIGN SPEED
INV.	INVERT	VAR.	VARIABLE
IP	IRON PIN OR PIPE	VERT	VERTICAL
LC	LONG CHORD OF CURVE	YD	YARD
LF	LINEAR FOOT		

PROJECT NO: 8732-00-72 FILE NAME :

LEFT HAND FORWARD

LENGTH OF CURVE

LHF

HWY: CTH M

COUNTY: BAYFIELD

GENERAL NOTES

PLAN:

SHEET

G:\2019-PROJ\19467123\C3D\SHEETSPLAN\020101_GN.DWG LAYOUT NAME - TYPICAL SECTIONS

3/10/2021 8:24 AM

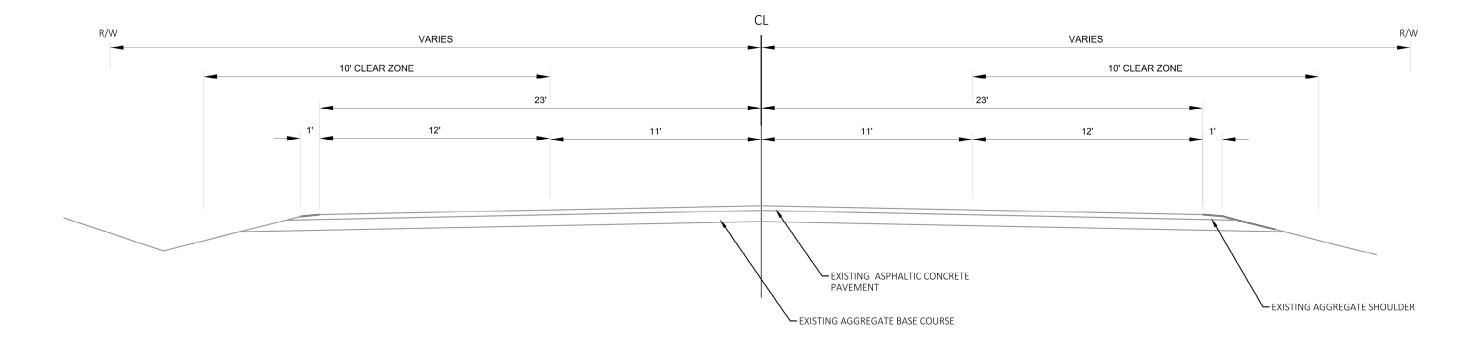
AARON SCHARF PLOT BY:

PLOT NAME :

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

WISDOT/CADDS SHEET 42

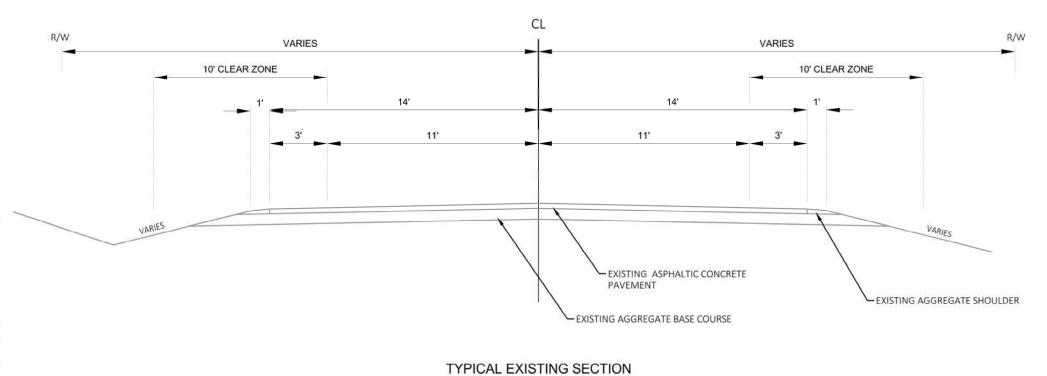




TYPICAL EXISTING SECTION STA 100+66 TO 109+83

COUNTY: BAYFIELD

BORING LOG PROJECT: 8732-00-72 COUNTY: BAYFIELD SPRUCE TO FRELS RD. ASPHALTIC OFFSET SIDE SURFACE BORING STATION CABC NO. (FT) (IN) (IN) 1 103+48 7 18 2 112+58 7 LT 9 9 3 129+20 6 RT 12 4 LT 4 155+467 7 6 6 RT 5 181+47 6 7 7 6 204+96 6 LT 4 RT 7 233+42 6 9 5 8 LT 255+50 4 9 268+24 9 RT 6 4 10 280+47 7 LT 10 4 RT 11 285+17 6 7 17 12 311+49 6 LT 9 15 RT 13 323+87 20 14 337+14 LT 8 15 363+25 6 RT 15 3 LT 16 384+97 12 4



HWY: CTH M

8732-00-72

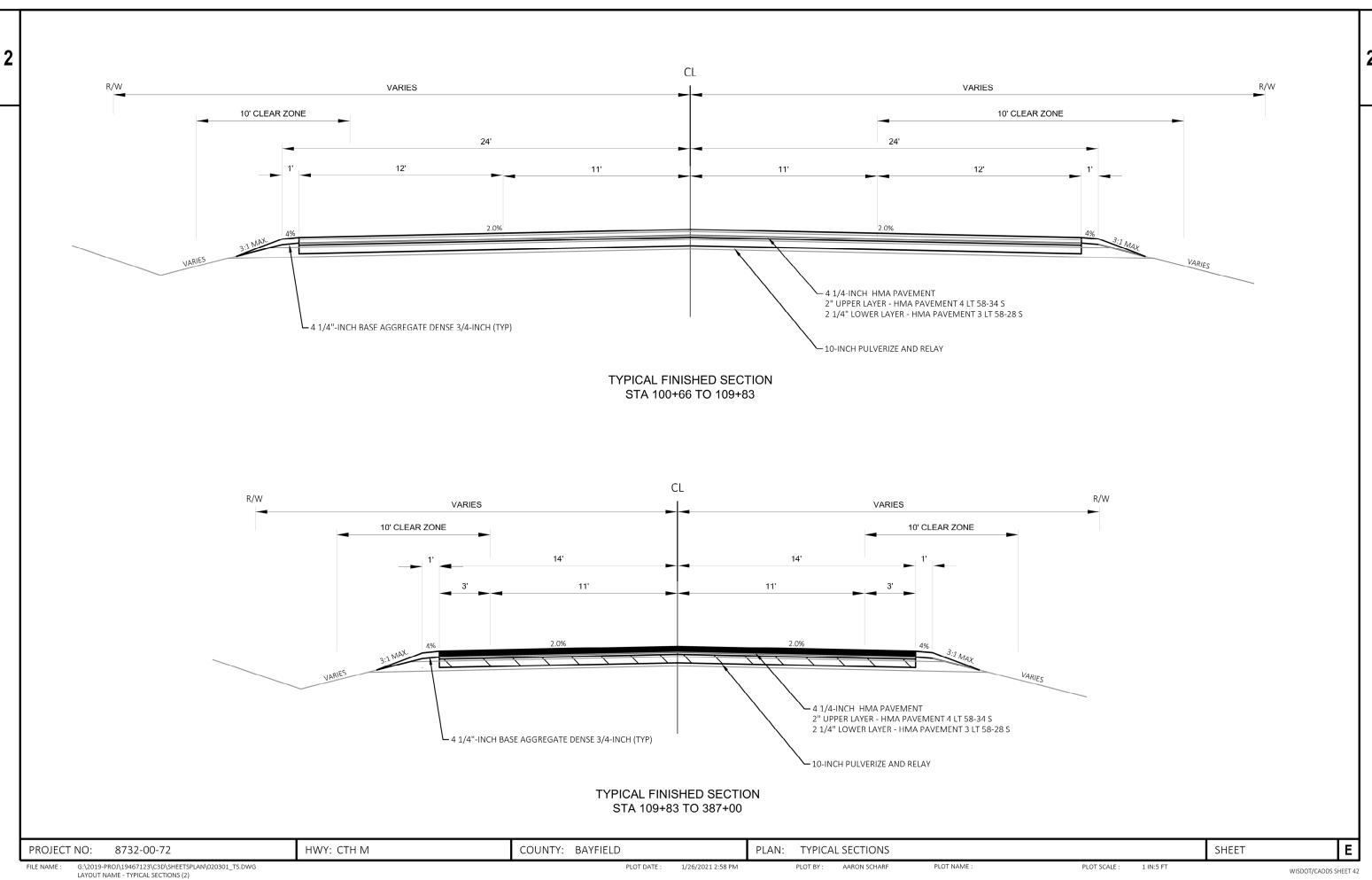
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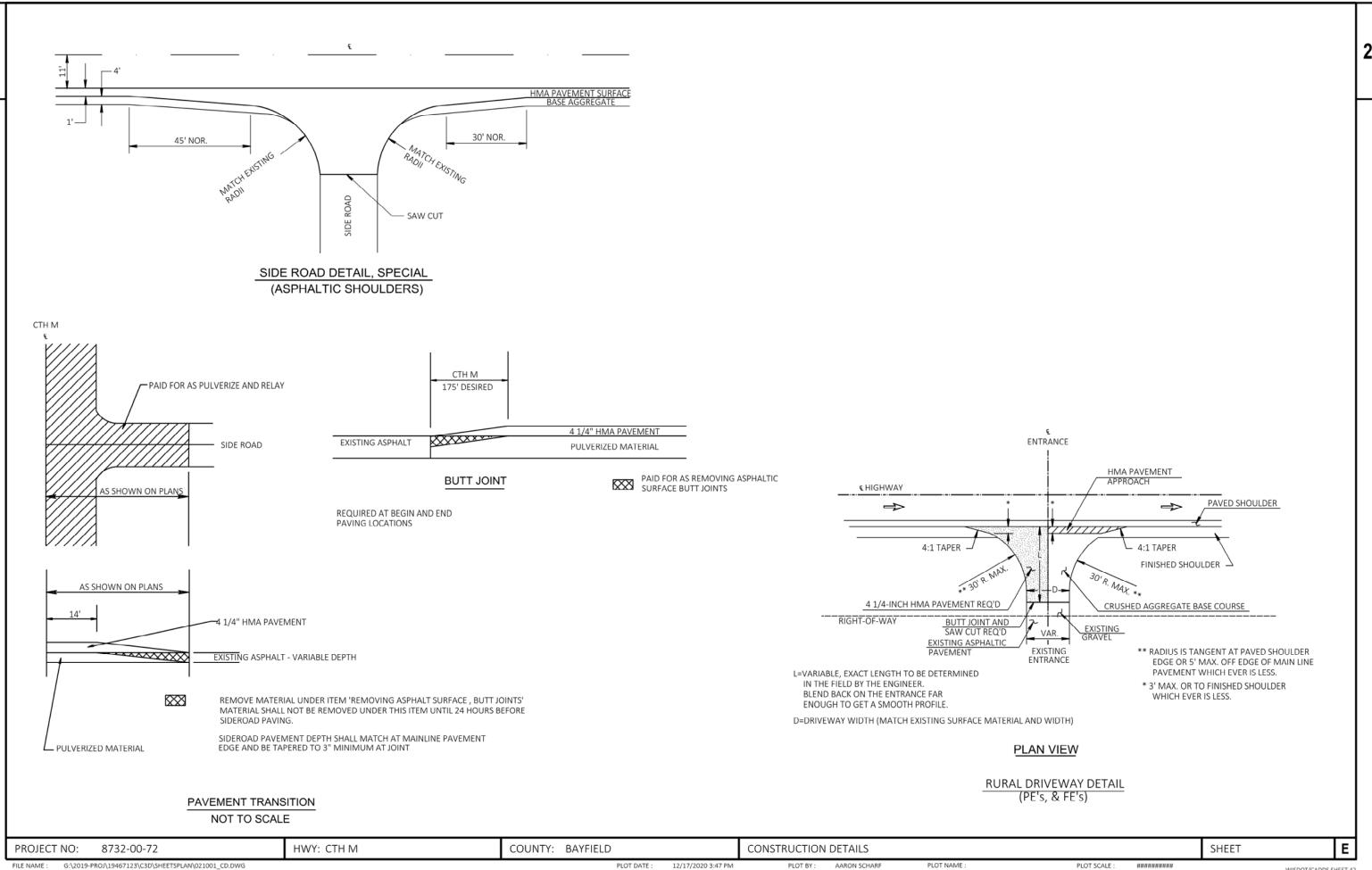
STA 109+83 TO 387+00

PLAN: TYPICAL SECTIONS

SHEET

PLOT SCALE :





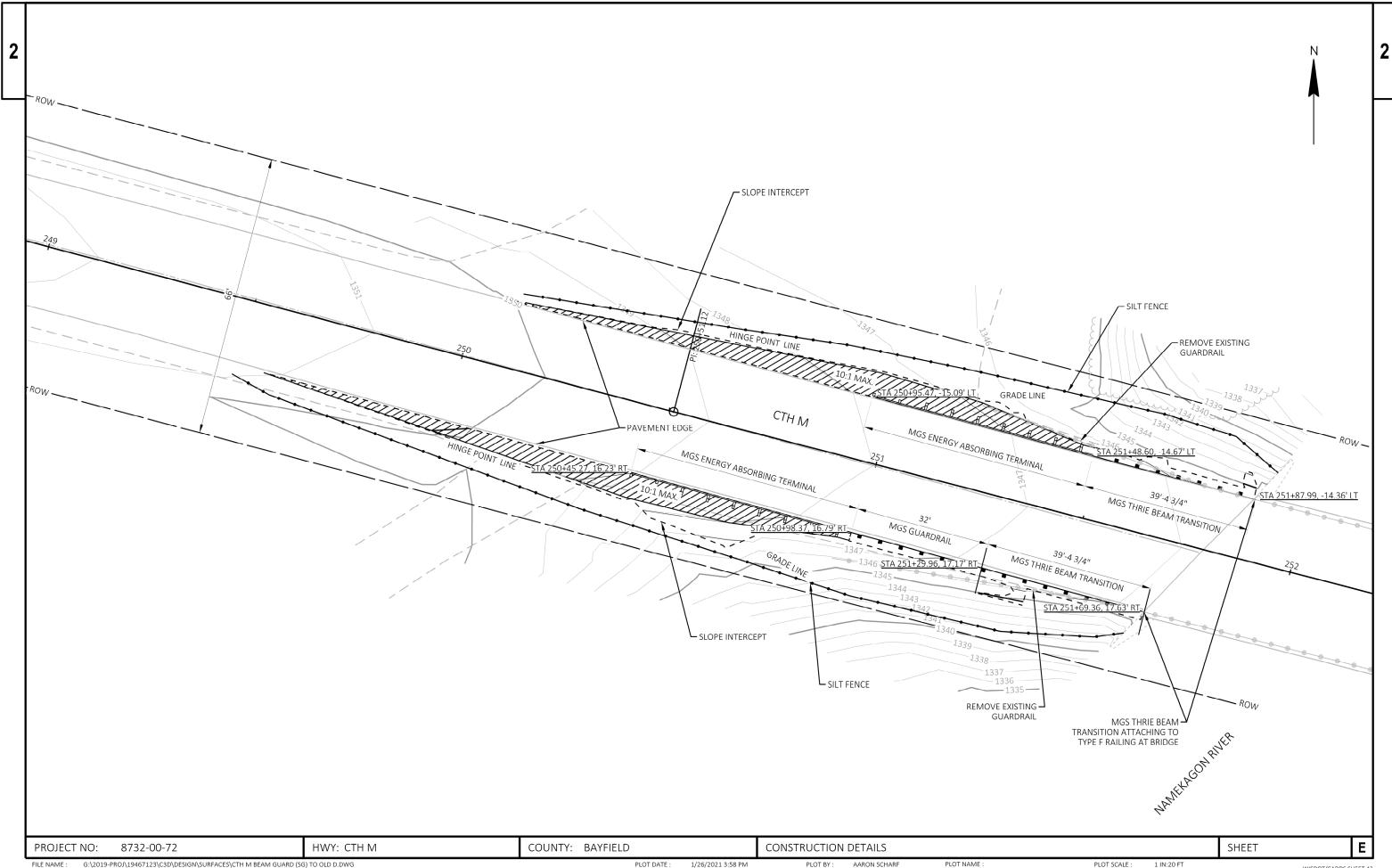
TRANSITION EVEN	TPOINTS		RATI	E (FT/FT)	
LOCATION	STATION	LEFT OF CRO	WNLINE	RIGHT C	FCROWNLINE
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
CURVE 1					12
EndNormalShoulder	114+26.07	-0.020	-0.020	-0.020	-0.040
EndNormalCrown	114+26.07	-0.020	-0.020	-0.020	-0,040
LevelCrown	114+79.53	0.000	0.000	-0.020	-0.040
ReverseCrown	115+32.98	0,020	0,020	0.020	-0,040
LowShoulderMatch	115+86.43	0.040	0.040	-0.040	-0.040
BeginFullSuper	116+26_53	0.055	0.055	-0.055	-0.055
EndFullSuper	119+01.35	0.055	0.055	-0.055	0.055
LowShoulderMatch	119+41.44	0.040	0.040	-0.040	-0.040
ReverseCrown	119+94,90	0.020	0,020	-0,020	-0.040
LevelCrown	120+48.35	0.000	0.000	-0.020	-0.040
BeginNormalCrown	121+01.81	-0.020	-0.020	-0.020	-0.040
BeginNormalShoulder	121+01.81	-0.020	-0.020	-0.020	-0.040
CURVE 2					1
EndNormalShoulder	192+03.62	-0.020	-0.020	-0.020	-0.040
EndNormalCrown	192+03.62	-0.020	-0.020	0.020	-0,040
LevelCrown	192+57.06	0.000	0.000	-0.020	-0.040
ReverseCrown	193+10.51	0.020	0.020	-0.020	-0.040
LowShoulderMatch	193+63.96	0.040	0.040	-0.040	-0.040
BeginFullSuper	194+12.06	0.058	0.058	-0.058	-0.058
End Full Super	197+53,10	0.058	0.058	-0.058	-0,058
LowShoulderMatch	198+01.20	0.040	0.040	-0.040	-0.040
ReverseCrown	198+54.65	0.020	0.020	-0.020	0.038
LevelCrown	199+08.10	0.000	0.000	-0.020	-0.037
BeginNormalCrown	199+61.55	-0.020	-0.020	-0.020	-0,035
BeginNormalShoulder	199+61.55	-0.020	-0.020	-0.020	-0.035
CURVE 3					
EndNormalShoulder	204+83.15	-0.035	-0.020	-0.020	-0.020
EndNormalCrown	204+83.15	-0.035	-0.020	0.020	-0.020
LevelCrown	205+36.62	-0.037	-0.020	0.000	0.000
ReverseCrown	205+90.08	-0.038	-0.020	0.020	0.020
LowShoulderMatch	206+43.54	0.040	-0.040	0.040	0.040
BeginFullSuper	206+75,62	-0.052	-0,052	0.052	0.052
EndFullSuper	211+66.06	-0.052	-0.052	0,052	0.052
LowShoulderMatch	211+98.14	-0.055	-0.055	0.055	0.055
ReverseCrown	212+51.60	-0.059	0.059	0.059	0.059
LevelCrown	213+05.06	-0.060	-0.060	0.060	0.060
BeginNormalCrown	213+58.52	-0.060	-0.060	0.060	0.060
BeginNormalShoulder	213+58.52	-0.060	-0.060	0.060	0.060

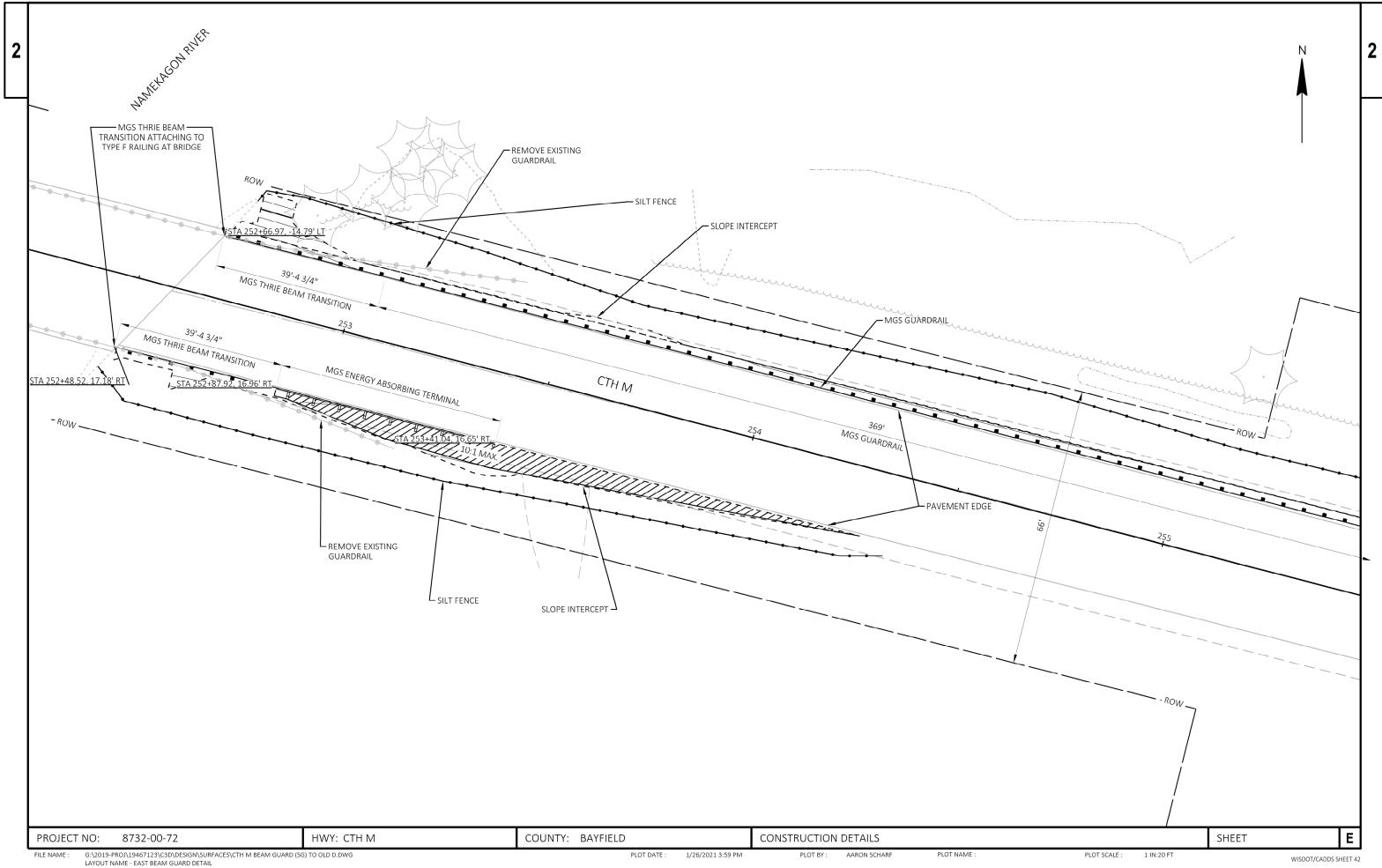
		RELEVATION REPO			
TRANSITION EVEN				(FT/FT)	
LOCATION	STATION	LEFT OF CRO			FCROWNLINE
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
CURVE 4					
EndNormalShoulder	210+52.38	-0.052	-0.052	0.052	0.052
EndNormalCrown	210+52.38	-0.052	-0.052	0.052	0.052
LevelCrown	211+05.72	-0.052	-0.052	0.052	0.052
ReverseCrown	211+59,05	-0,052	0.052	0.052	0.052
LowShoulderMatch	212+12.38	-0.056	-0.056	0.056	0.056
BeginFullSuper	212+65.72	-0.060	-0.060	0.060	0.060
EndFullSuper	215+67.34	-0.060	-0.060	0.060	0.060
LowShoulderMatch	216+20.67	-0.040	-0.040	0.040	0.040
ReverseCrown	216+74,00	-0.038	-0,020	0,020	0,020
LevelCrown	217+27.34	-0.035	-0.020	0.000	0.000
BeginNormalCrown	217+80.67	-0.033	-0.020	0.020	0.020
BeginNormalShoulder	217+80.67	-0.033	-0.020	-0.020	-0.020
CURVE 5					
EndNormalShoulder	220+66.64	-0.020	-0.020	-0.020	-0.033
EndNormalCrown	220+66.64	-0.020	-0.020	-0.020	0.033
LevelCrown	221+19.98	0.000	0.000	-0.020	-0.035
ReverseCrown	221+73.31	0.020	0.020	-0.020	-0.038
LowShoulderMatch	222+26.64	0.040	0.040	0.040	0.040
BeginFullSuper	222+79.98	0.060	0.060	-0.060	0.060
EndFullSuper	225+19.40	0,060	0.060	-0.060	-0.060
LowShoulderMatch	225+72.74	0.040	0.040	-0.040	-0.040
ReverseCrown	226+26.07	0.020	0.020	0.020	0.040
LevelCrown	226+79.40	0.000	0.000	-0.020	-0.040
BeginNormalCrown	227+32.74	-0.020	-0.020	-0.020	0.040
BeginNormalShoulder	227+32.74	-0.020	-0.020	-0.020	-0.040
CURVE 6					
EndNormalShoulder	241+80.49	-0.020	-0.020	-0.020	-0.040
EndNormalCrown	241+80.49	-0.020	-0.020	-0.020	0.040
LevelCrown	242+33.69	0.000	0.000	-0.020	0.040
ReverseCrown	242+86,89	0.020	0.020	-0,020	-0.040
LowShoulderMatch	243+40.09	0.040	0.040	0.040	0.040
Begin Full Super	243+66.69	0.050	0.050	-0.050	0.050
EndFullSuper	247+53.90	0.050	0.050	0,050	0,050
LowShoulderMatch	247+80.50	0.040	0.040	-0.040	-0.040
ReverseCrown	248+33.70	0.020	0.020	0.020	0.040
LevelCrown	248+86.90	0.000	0.000	-0.020	-0.040
BeginNormalCrown	249+40.10	-0.020	-0.020	-0.020	-0.040
BeginNormalShoulder	249+40.10	-0.020	-0.020	-0.020	-0.040

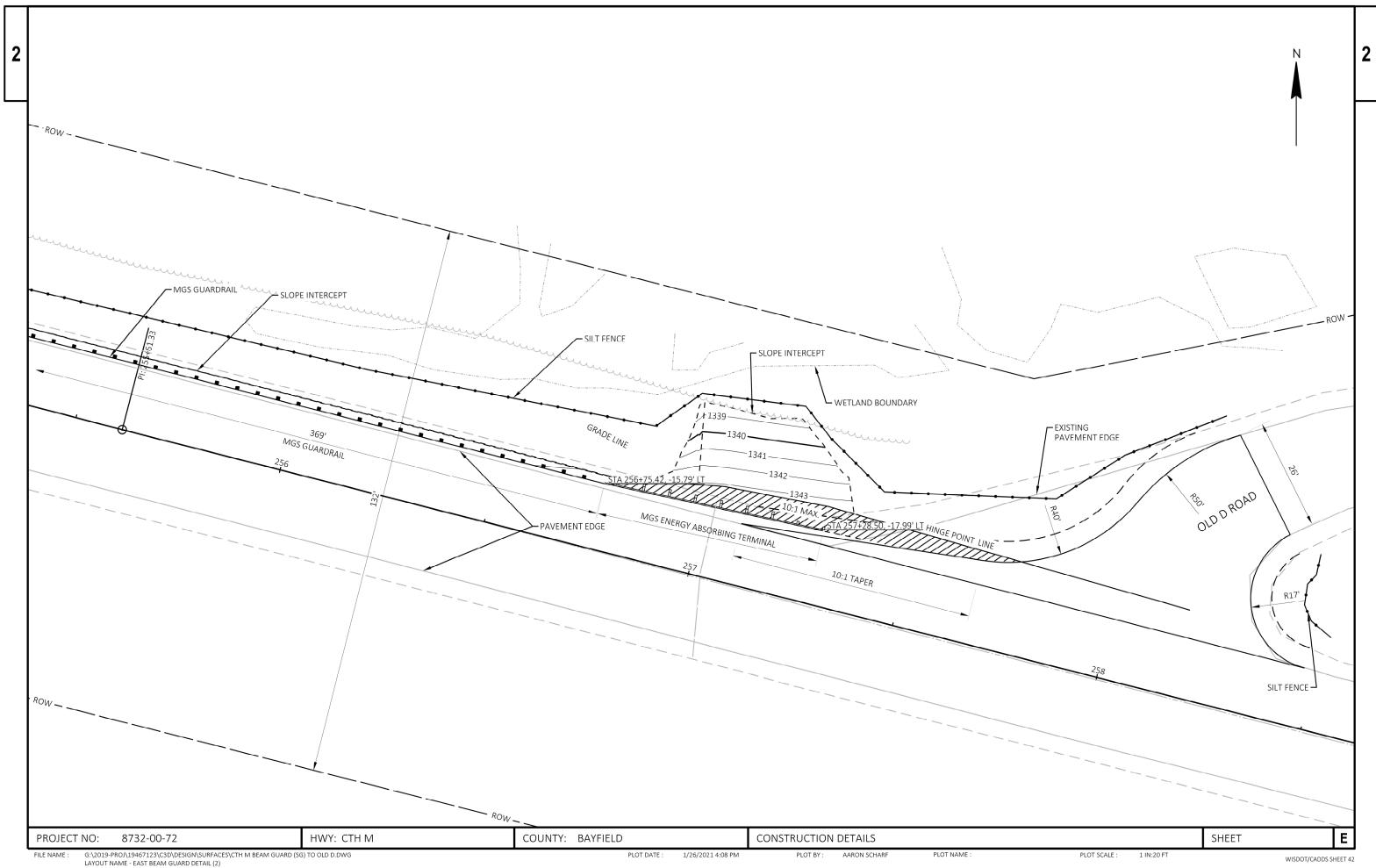
TRANSITION EVEN	TPOINTS		RAT	E (FT/FT)	
LOCATION	STATION	LEFT OF CRO			ECROWNLINE
					RIGHT SHOULDER
CURVE 7					
EndNormalShoulder	317+57.75	-0.040	-0.020	-0.020	-0.020
EndNormalCrown	317+57.75	-0.040	-0.020	-0.020	-0.020
LevelCrown	318+11.09	-0.040	-0.020	0.000	0.000
ReverseCrown	318+64.42	-0.040	-0.020	0.020	0.020
LowShoulderMatch	319+17.75	-0.040	-0.040	0.040	0.040
BeginFullSuper	319+39.09	-0.048	-0.048	0.048	0.048
EndFullSuper	326+67.94	0.048	-0.048	0.048	0.048
LowShoulderMatch	326+89.27	-0.040	-0.040	0.040	0.040
ReverseCrown	327+42.61	0.040	-0.020	0.020	0.020
LevelCrown	327+95.94	-0.039	-0.020	0.000	0.000
BeginNormalCrown	328+49.27	-0.039	-0.020	-0.020	-0.020
BeginNormalShoulder	328+49.27	-0.039	-0.020	-0.020	-0.020
CURVE 8					
EndNormalShoulder	354+14.60	-0.020	-0.020	-0.020	-0.031
EndNormalCrown	354+14.60	0.020	-0.020	-0.020	-0.031
LevelCrown	354+68.17	0.000	0.000	-0.020	-0.031
ReverseCrown	355+21.74	0.020	0.020	-0.020	-0.032
BeginFullSuper	355+43.17	0.028	0.028	-0.028	-0.032
EndFullSuper	359+96.78	0.028	0.028	-0.028	-0,034
ReverseCrown	360+18.20	0.020	0.020	-0.020	-0.034
LevelCrown	360+71.78	0.000	0.000	-0.020	-0.034
BeginNormalCrown	361+25.35	-0.020	-0.020	-0.020	-0.034
BeginNormalShoulder	361+25.35	-0.020	-0.020	-0.020	-0.034
CURVE 9			1		
EndNormalShoulder	372+70.81	-0.020	-0.020	-0.020	-0.039
EndNormalCrown	372+70.81	-0.020	-0.020	-0.020	-0.039
LevelCrown	373+24.14	0.000	0.000	-0.020	-0.040
ReverseCrown	373+77.48	0.020	0.020	-0.020	-0.040
LowShoulderMatch	374+30.81	0.040	0.040	-0.040	-0.040
BeginFullSuper	374+60,14	0.051	0.051	-0,051	-0,051
EndFullSuper	378+14.43	0.051	0.051	-0.051	-0.051
LowShoulderMatch	378+43.76	0.040	0.040	-0.040	-0.040
ReverseCrown	378+97.09	0.020	0.020	-0.020	-0.039
LevelCrown	379+50.43	0.000	0.000	-0.020	-0.038
BeginNormalCrown	380+03.76	-0.020	-0.020	0.020	-0.036
BeginNormalShoulder	380+03.76	-0.020	-0.020	-0.020	-0.036

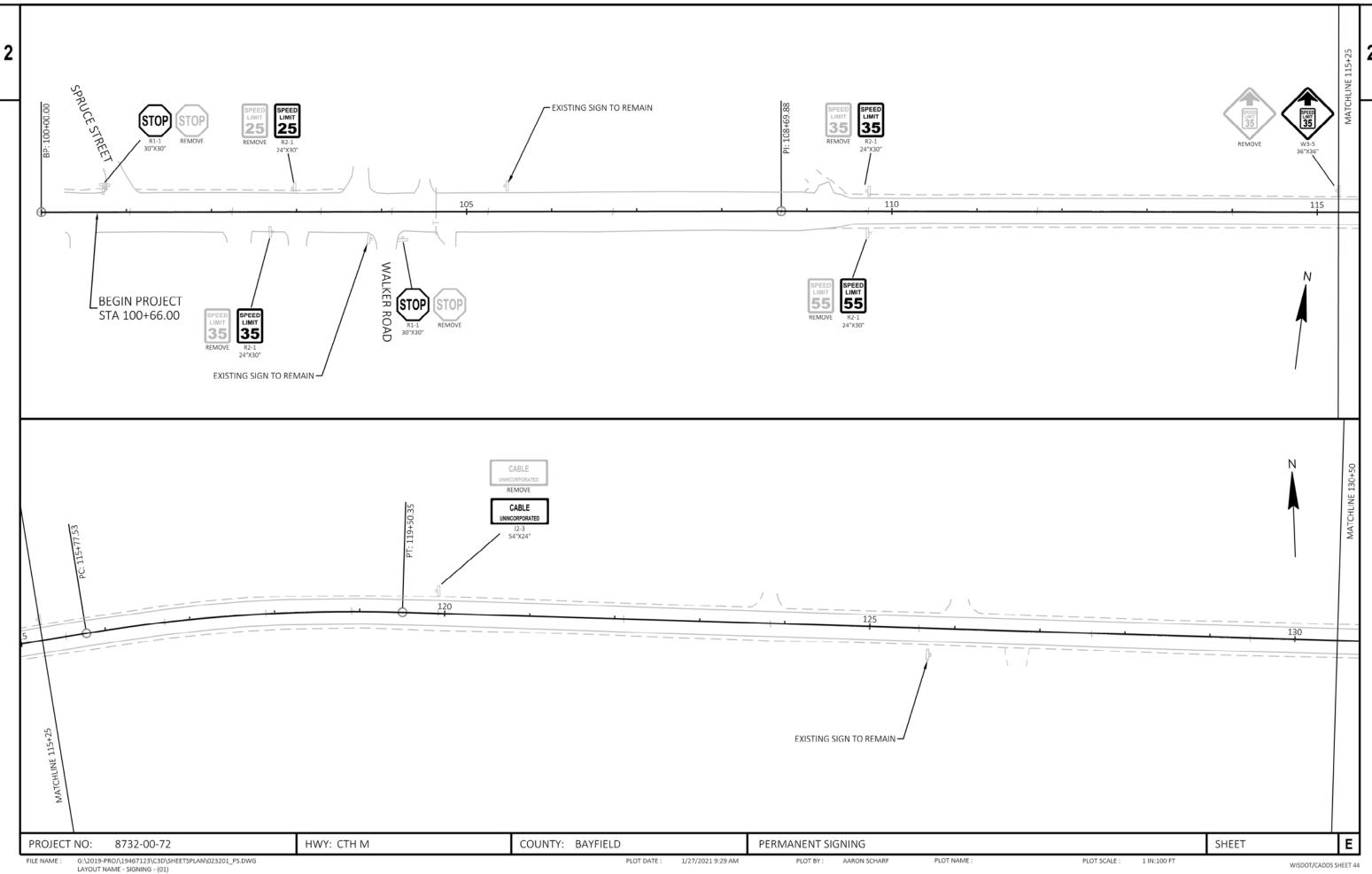
PROJECT NO: 8732-00-72 HWY: CTH M COUNTY: BAYFIELD PLAN SUPERELEVATION TABLE SHEET **E**

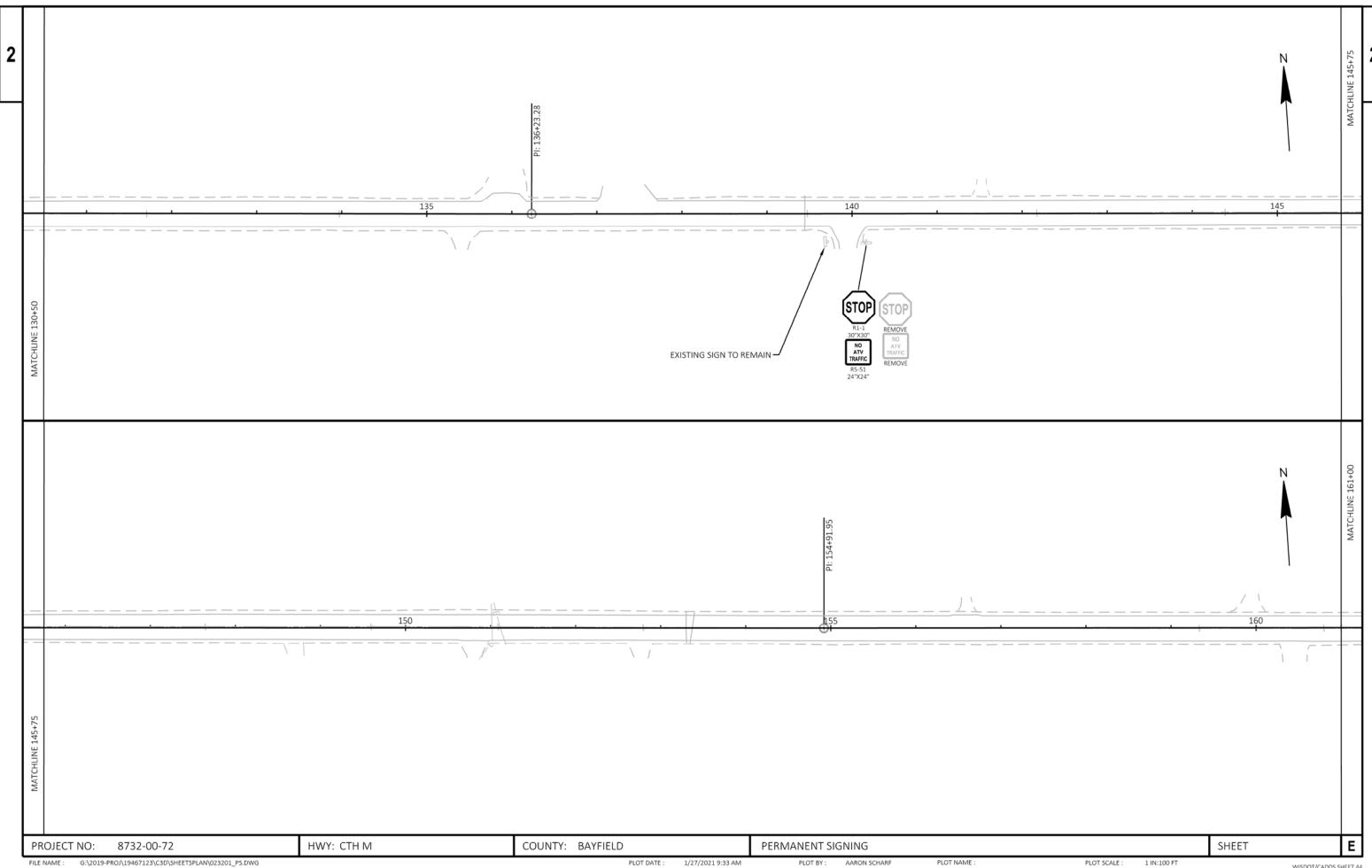
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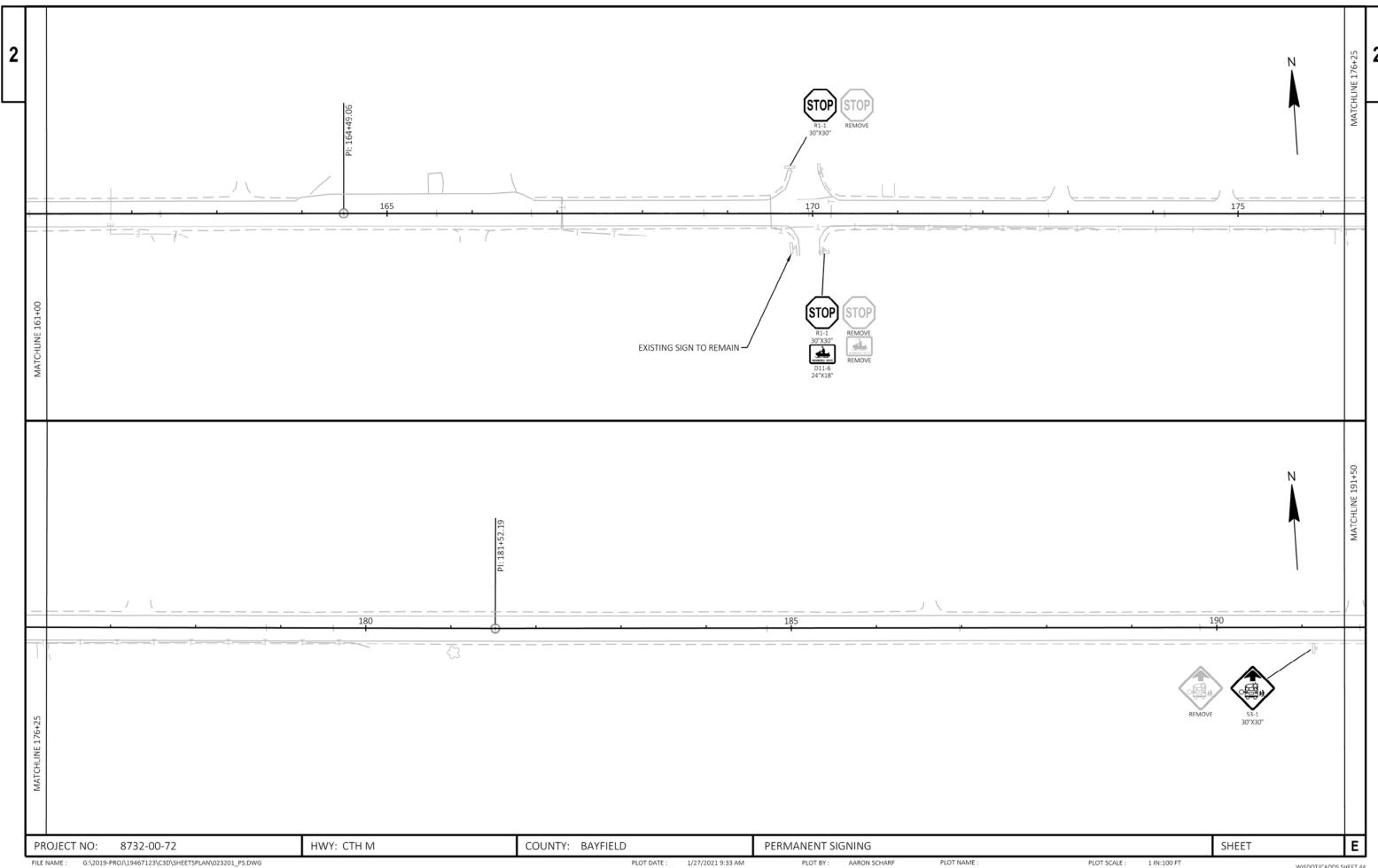


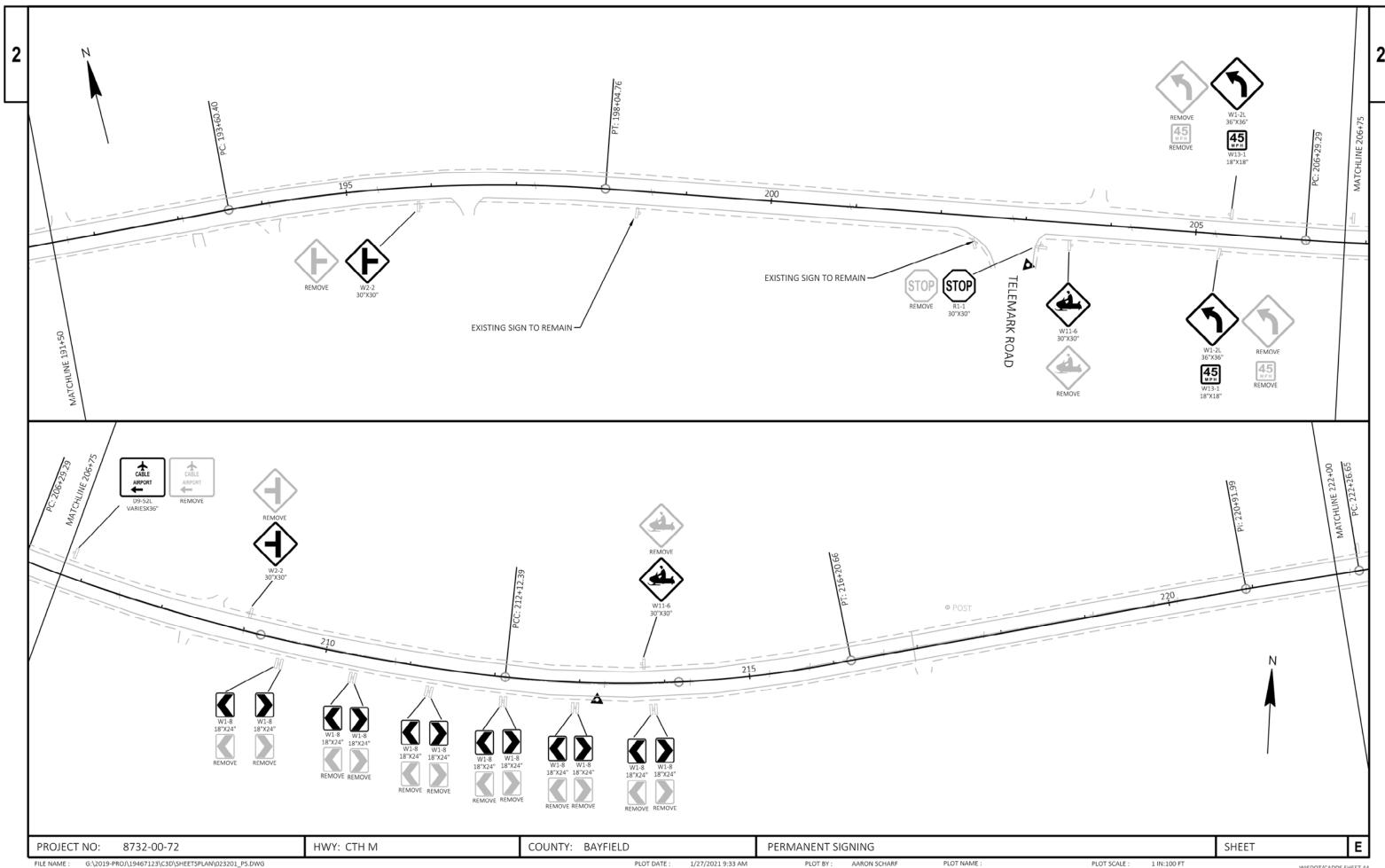


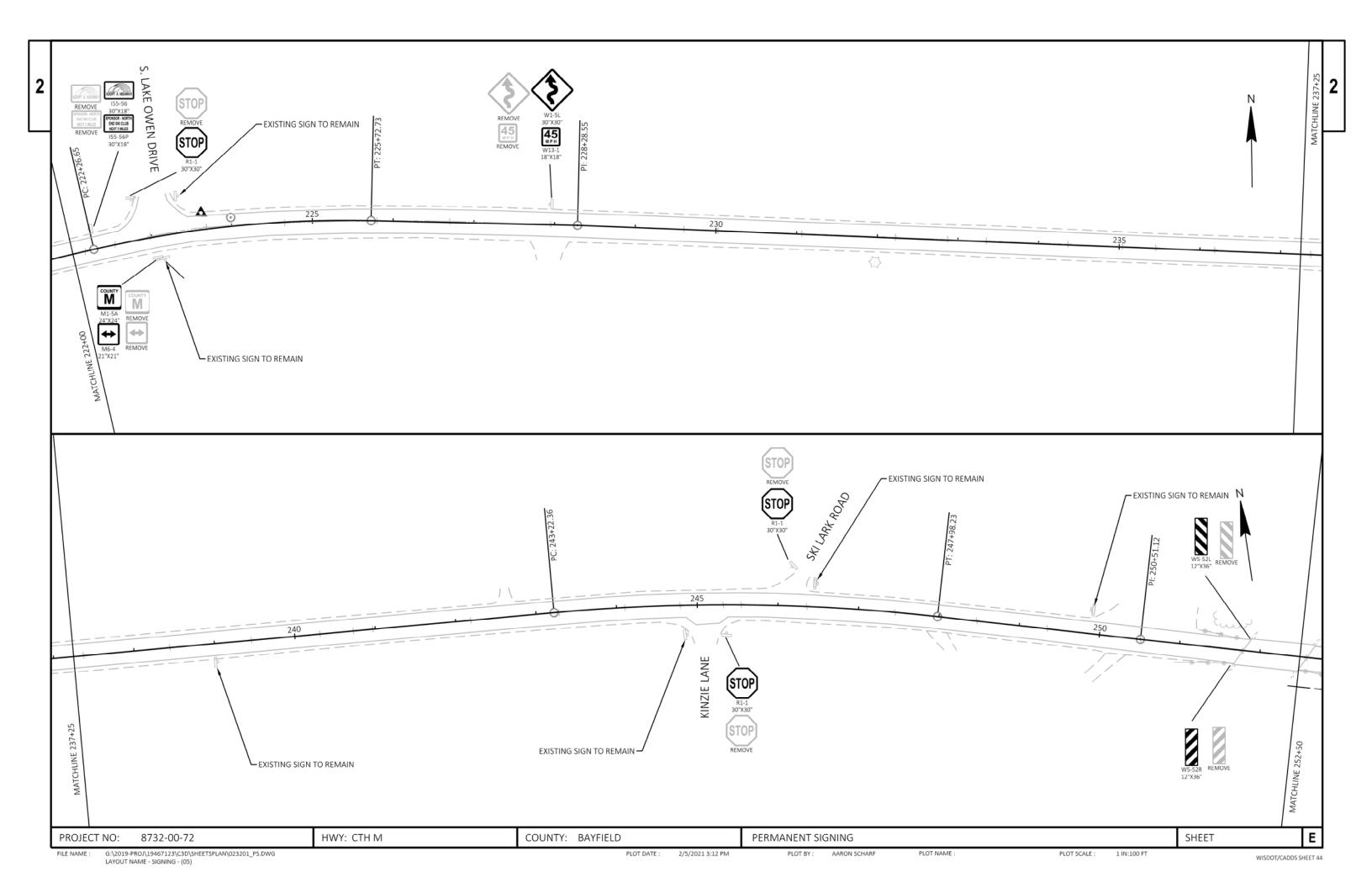


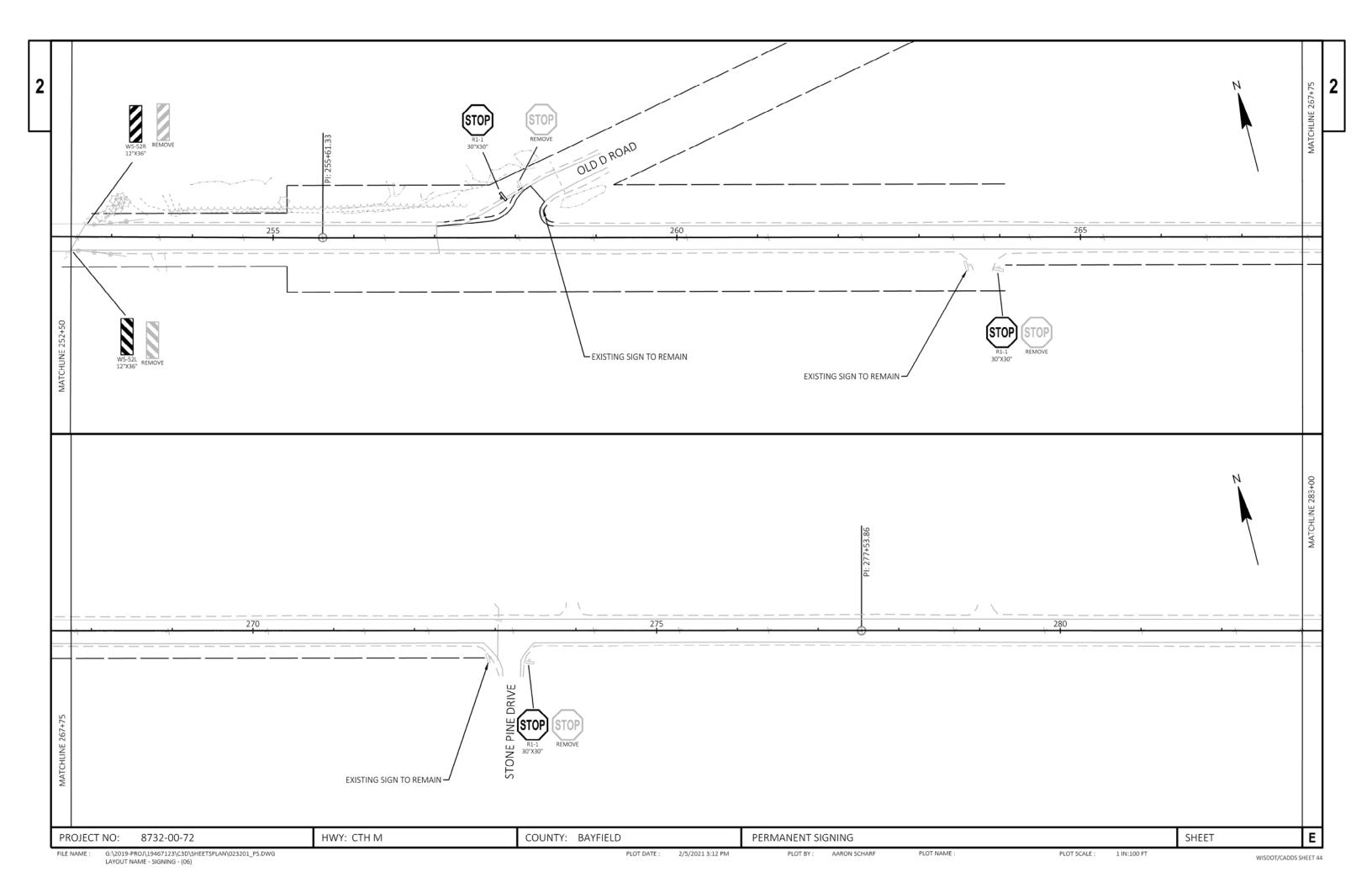


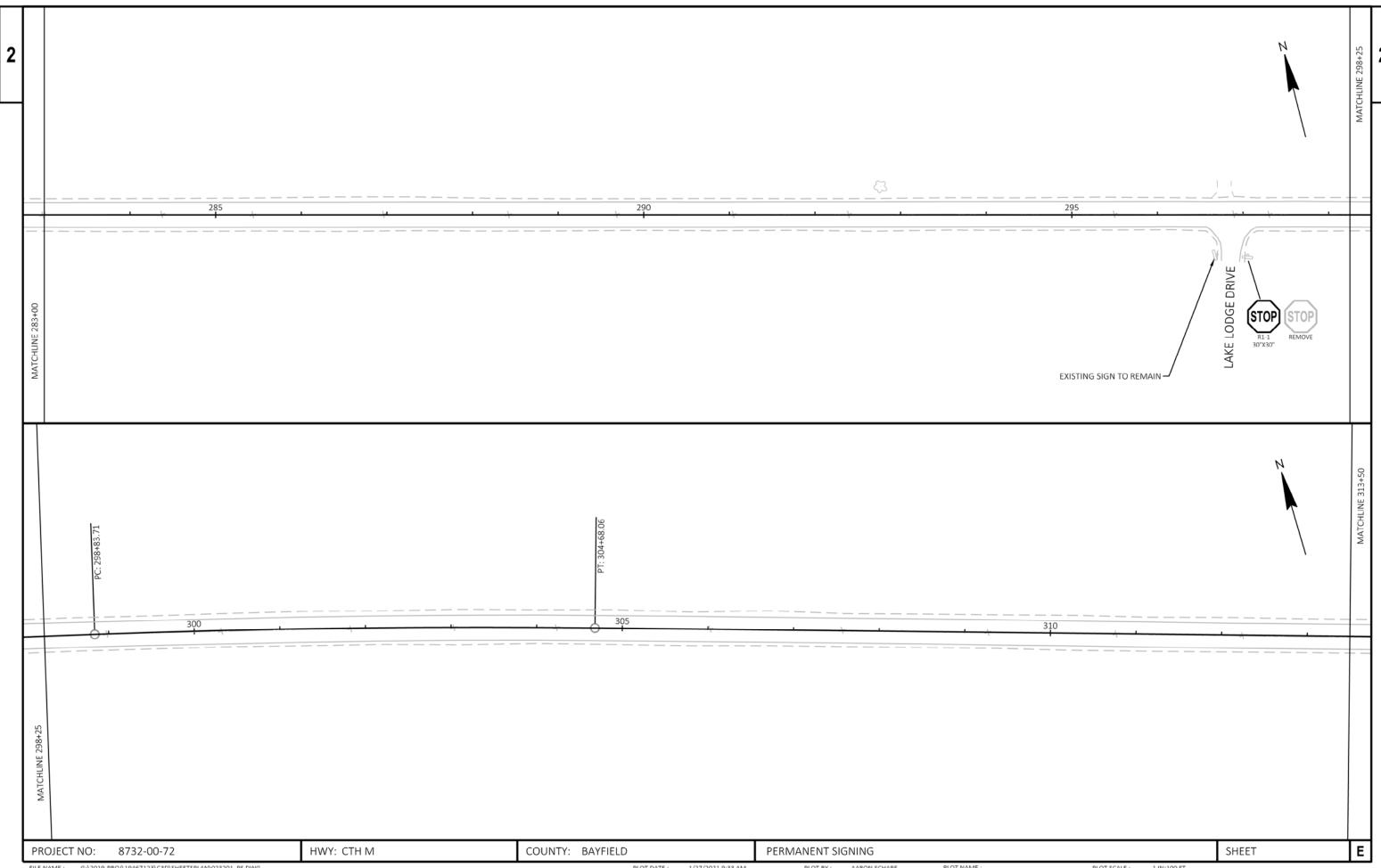


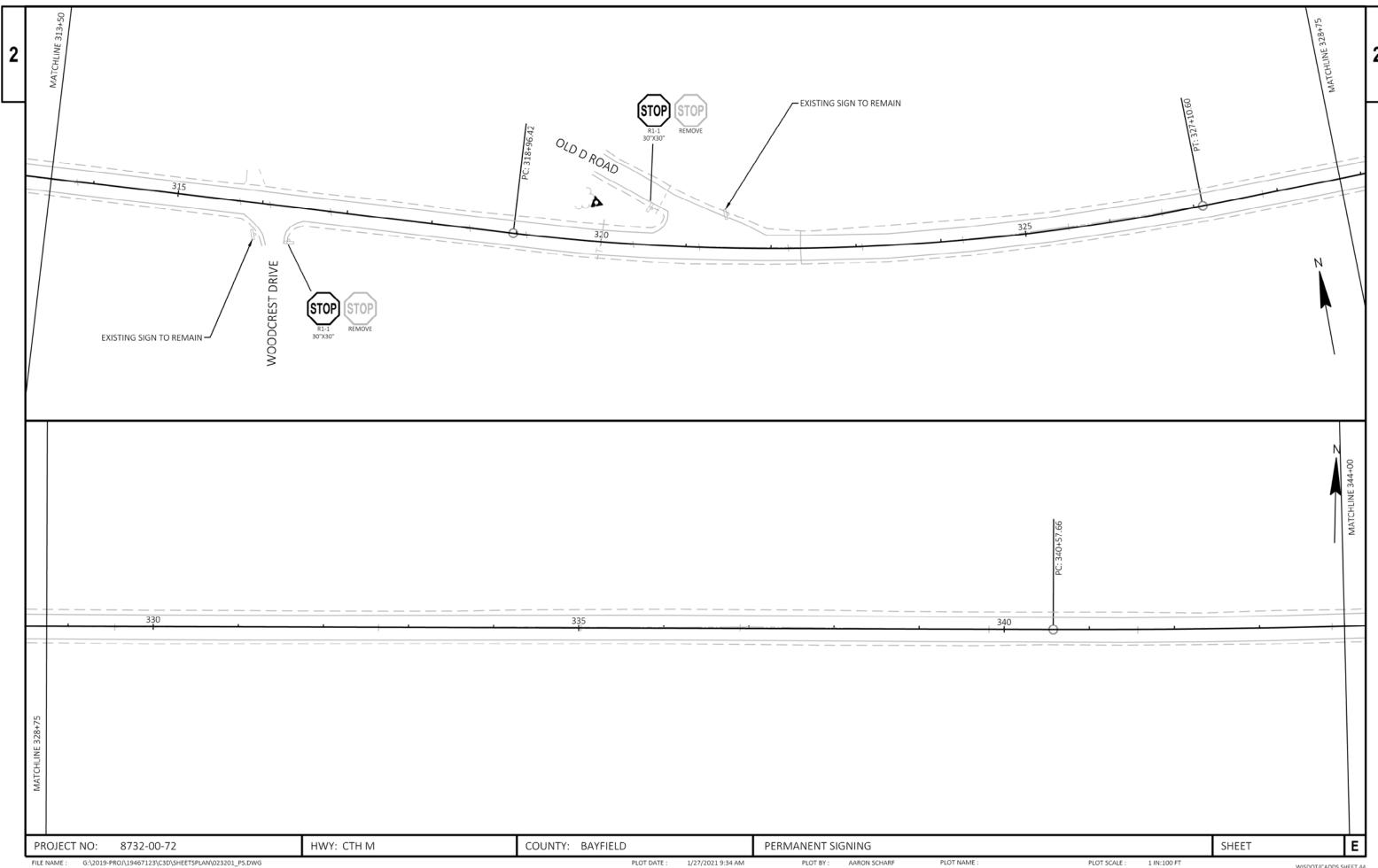


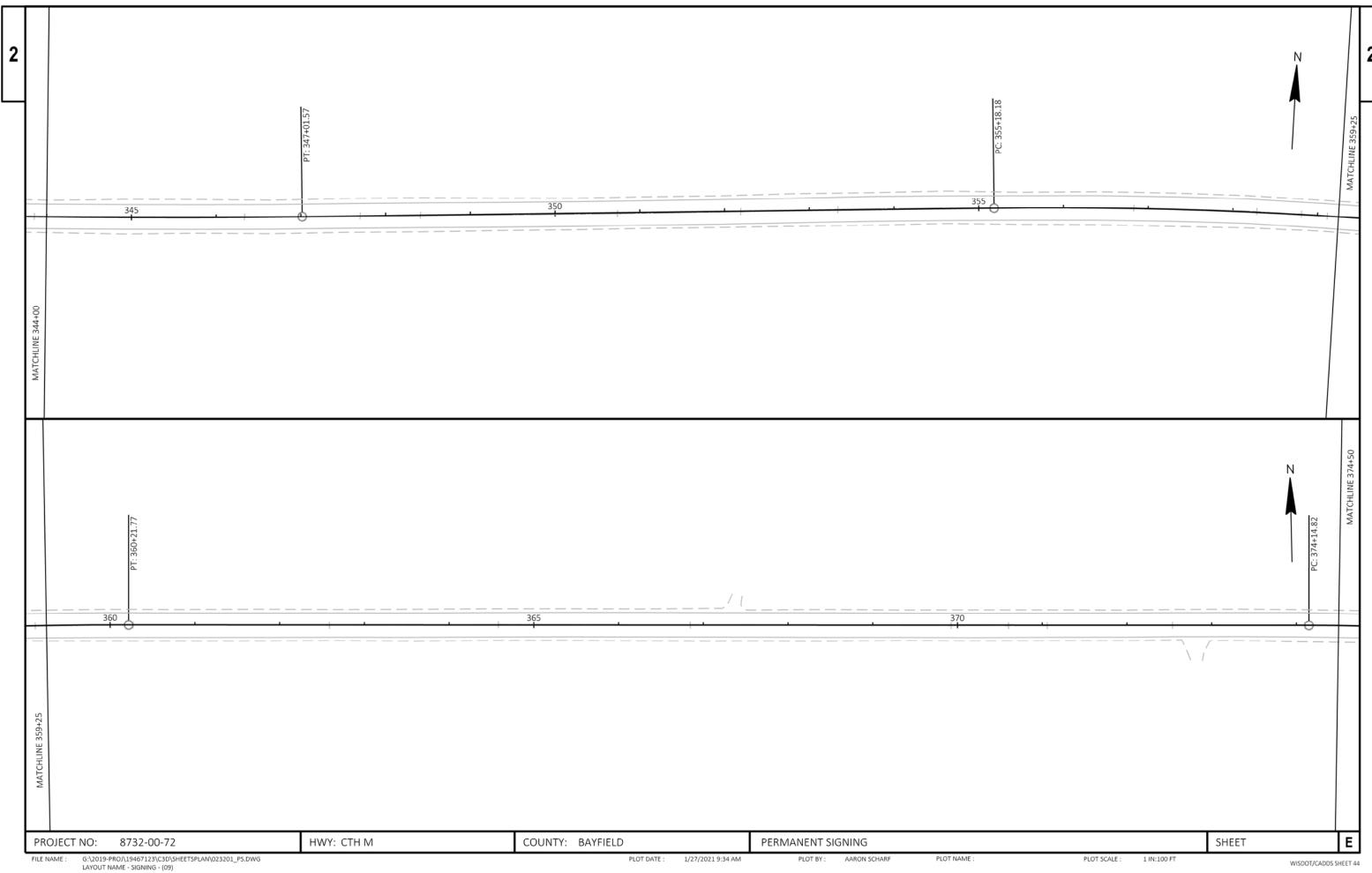


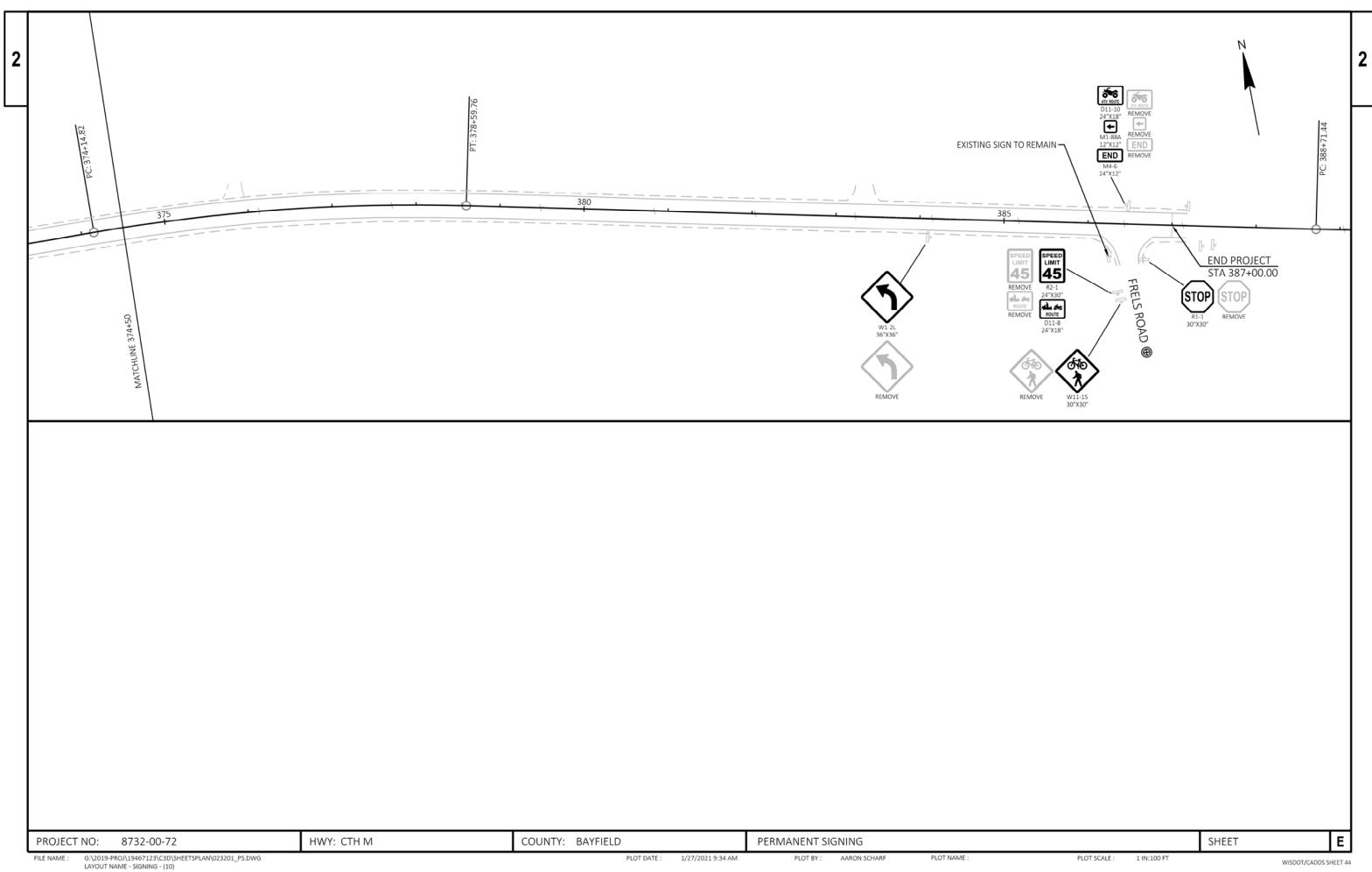












					8732-00-72
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	37.000	37.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,101.000	2,101.000
0006	204.0165	Removing Guardrail	LF	284.000	284.000
8000	205.0100	Excavation Common	CY	4.000	4.000
0010	208.0100	Borrow	CY	38.000	38.000
0012	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 8732-00-72	LS	1.000	1.000
0014	213.0100	Finishing Roadway (project) 01. 8732-00-72	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,388.000	2,388.000
0018	325.0100	Pulverize and Relay	SY	98,646.000	98,646.000
0020	455.0605	Tack Coat	GAL	4,624.000	4,624.000
0022	460.2000	Incentive Density HMA Pavement	DOL	11,980.000	11,980.000
0024	460.5223	HMA Pavement 3 LT 58-28 S	TON	11,658.000	11,658.000
0026	460.5244	HMA Pavement 4 LT 58-34 S	TON	10,356.000	10,356.000
0028	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	100.000	100.000
0030	614.2300	MGS Guardrail 3	LF	401.000	401.000
0032	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0034	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0036	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8732-00-72	EACH	1.000	1.000
0038	619.1000	Mobilization	EACH	1.000	1.000
0040	624.0100	Water	MGAL	100.000	100.000
0042	625.0100	Topsoil	SY	978.000	978.000
0044	628.1504	Silt Fence	LF	1,170.000	1,170.000
0046	628.1520	Silt Fence Maintenance	LF	1,170.000	1,170.000
0048	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0050	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0052	628.2006	Erosion Mat Urban Class I Type A	SY	978.000	978.000
0054	629.0210	Fertilizer Type B	CWT	1.000	1.000
0056	630.0120	Seeding Mixture No. 20	LB	4.000	4.000
0058	630.0500	Seed Water	MGAL	30.000	30.000
0060	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	47.000	47.000
0062	637.2210	Signs Type II Reflective H	SF	198.690	198.690
0062	637.2210	Signs Type II Reflective F	SF	92.250	92.250
		• • • • • • • • • • • • • • • • • • • •			
0066	638.2602	Removing Signs Type II	EACH	63.000	63.000
0068	638.3000	Removing Small Sign Supports	EACH	47.000	47.000
0070	642.5001	Field Office Type B	EACH	1.000	1.000
0072	643.0900	Traffic Control Signs	DAY	1,125.000	1,125.000
0074	643.5000	Traffic Control	EACH	1.000	1.000
0076	646.1020	Marking Line Epoxy 4-Inch	LF	56,133.000	56,133.000

Estimate Of Quantities Page 2

					8732-00-72
Line	Item	Item Description	Unit	Total	Qty
0078	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	37,205.000	37,205.000
0800	648.0100	Locating No-Passing Zones	MI	5.400	5.400
0082	649.0105	Temporary Marking Line Paint 4-Inch	LF	74,411.000	74,411.000
0084	650.8000	Construction Staking Resurfacing Reference	LF	28,634.000	28,634.000
0086	650.9910	Construction Staking Supplemental Control (project) 01. 8732-00-72	LS	1.000	1.000
8800	690.0150	Sawing Asphalt	LF	200.000	200.000
0090	740.0440	Incentive IRI Ride	DOL	10,846.000	10,846.000
0092	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0094	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0096	SPV.0105	Special 01. Material Transfer Vehicle	LS	1.000	1.000

KLIVIOVA	L ITEMS		2010445	
			204.0115	
			REMOVING	
			ASPHALTIC	
			SURFACE	
			BUTTJOINTS	
STATION	SIDE	LOCATION	SY	
101+25	LT/RT	BEGIN PROJECT	302	
	LT	SPRUCE STREET	55	
	RT	WALKER ROAD	44	
	RT	ROBIN LANE	69	
	LT	TRAIL INN ROAD	113	
	RT	TRAIN INN SOUTH ROAD	65	
	RT	TELEMARK ROAD	225	
	LT	S. LAKE OWEN DRIVE	163	
	LT	OLD D ROAD	228	
	RT	STONE PINE DRIVE	109	
	LT	LAKE LODGE DRIVE	80	
	RT	WOODCREST DRIVE	106	
	LT	OLD D ROAD	197	
	RT	FRELS ROAD	112	
387+00	LT/RT	END PROJECT	233	

					EARTHWORI	SUMMARY					
						SALVAGED/			EXPANDED	15/00/2016	
					EXCAVATION	UNUSEABLE PAVEMENT	AVAII ADI E	LINEVDANIDED	FILL /FACTOR -	MASS	
					COMMON	MATERIAL	MATERIAL	UNEXPANDED	(FACTOR = 1.25)	ORDINATE +/-	BORROW
					205.0100	17771211712	TTD TT TT TT		1.23)		208.0100
CATEGORY	STATION	то	STATION	SIDE	CY	CY	CY	CY	CY	CY	
0010	249+56	2	251+71	RT	1.3	0	1.3	1	3	-2	2
0010	250+08	25	251+90	LT	0.2	0	0.2	1	2	-2	2
0010	252+48	73	254+30	LT	2.2	0	2.2	24	30	-28	28
0010	252+68	2	257+35	RT	0.4	0	0.4	6	7	-7	7
				TOTAL 0010	4	0	4	33	42	-38	38

HWY: CTH M

CLEARING ITEMS

142+00 -

151+00 -

160+00 -

167+00 -

170+00 - 192+00

STATION TO STATION SIDE

134+00 - 135+00 LT/RT

147+00

152+00

163+00

168+00

199+00 - 203+00 LT/RT

LT/RT

LT/RT

LT/RT

LT/RT

LT/RT

CATEGORY

0010

0010

0010

0010

0010

0010

0010

201.0105

CLEARING

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0010 TOTAL 37

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							BASE	
							AGGREGATE	
							DENSE	
							3/4-INCH	
					WIDTH	THICKNESS		
CATEGORY	STATION	TO	STATION S	SIDE	(FT)	(IN)	TON	REMARKS
0010	100+66	100	387+00	LT/RT	1	4.25	2,206	BEGIN PROJECT
0010	100+94			LT	1		2	SPRUCE STREET
0010	104+06			RT	1		1	WALKER ROAD
0010	139+95			RT	1		2	ROBIN LANE
0010	169+92			LT	1		2	TRAIL INN ROAD
0010	169+96			RT	1		2	TRAIN INN SOUTH ROAD
0010	202+86			RT	1		3	TELEMARK ROAD
0010	223+07			LT	3		8	S. LAKE OWEN DRIVE
0010	245+10			RT	1		60	KINZIE LANE
0010	246+12			LT	1		36	SKI LARK ROAD
0010	258+12			LT	1		5	OLD D ROAD
0010	273+18			RT	1		2	STONE PINE DRIVE
0010	296+86			LT	1		2	LAKE LODGE DRIVE
0010	316+16			RT	1		3	WOODCREST DRIVE
0010	321+22			LT	1		2	OLD D ROAD
0010	386+46			RT	1		3	FRELS ROAD
0010			DRIVEWAYS	LT/RT		4.25	50	END PROJECT
							2,388	

FILE NAME : G:\2019-PROJ\19467123\C3D\SHEETSPLAN\030101_MQ.DWG LAYOUT NAME - 01

PROJECT NO: 8732-00-72

PLOT DATE: 1/28/2021 1:35 PM

COUNTY: BAYFIELD

PLOT BY: AARON SCHARF

MISCELLANEOUS QUANTITIES

CATEGORY STATION TO

100+66

100+94

104+06

139+95

169+92

169+96

202+86

223+07

258+12

273+18

296+86

316+16

321+22

386+46

386+25 -

BASE AGGREGATE DENSE ITEMS

0010

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PLOT NAME :

PLOT SCALE : 1" = 1'

305.0110

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									ASPHAL	TITEMS					
								325.0100	455.0605	460.5223	460.5244	465.0120	690.0150	SPV.0105.01	
												ASPHALTIC			
												SURFACE		MATERIAL	
								PULVERIZE AND		HMA PAVEMENT	HMA PAVEMENT	DRIVEWAYS AND	SAWING	TRANSFER	
								RELAY	TACK COAT	3 LT 58-28 S	4 LT 58-34 S	FIELD ENTRANCES	ASPHALT	VEHICLE	
					WIDTH	THICKNESS		(CEC)	men com	5 21 30 20 3	12130313	TILLD ENTITIONS	/ SI II/ICI	VEITIGEE	
CATEGORY	STATION	то	STATION	SIDE	(FT)	(IN)	LAYERS	SY	GAL	TON	TON	TON	LF	LS	REMARKS
7															
0010	100+66	(2)	109+83	LT/RT	46	10.00	1	4,690							CTH M
0010	109+83	-	387+00	LT/RT	30	10.00	1	92,390							CTH M
0010	100+66		109+83	LT/RT	46	2.25	1		234	590					CTH M
0010	109+83		387+00	LT/RT	28	2.25	1		4,312	10,870					CTH M
0010	100+66	-	109+83	LT/RT	46	2.00	1				520				CTH M
0010	109+83		387+00	LT/RT	28	2.00	1				9,660				CTH M
0010	100+94			LT				55	3	7	6				SPRUCE STREET
0010	104+06			RT				44	2	6	5				WALKER ROAD
0010	139+95			RT				69	3	9	8				ROBIN LANE
0010	169+92			LT				113	6	14	13				TRAIL INN ROAD
0010	169+96			RT				65	3	8	7				TRAIN INN SOUTH ROA
0010	202+86			RT				225	11	28	25				TELEMARK ROAD
0010	223+07			LT				163	8	21	18				S. LAKE OWEN DRIVE
0010	258+12			LT				228	11	29	26				OLD D ROAD
0010	273+18			RT				109	5	14	12				STONE PINE DRIVE
0010	296+86			LT				80	4	10	9				LAKE LODGE DRIVE
0010	316+16			RT				106	5	13	12				WOODCREST DRIVE
0010	321+22			LT				197	10	25	22				OLD D ROAD
0010	386+46			RT				112	6	14	13				FRELS ROAD
	UNDISTRU	BUT	ED					044599		30.5 3	5500:	100	200	1	
						(0010 TOTAL	98,646	4,624	11,658	10,356	100	200	1	

		Gl	JARDRAIL ITEN	ΛS		
			REMOVING GUARDRAIL	MGS GUARDRAIL 3	MGS THRIE BEAM TRANSITION	MGS GUARDRAIL TERMINAL EAT
			204.0165	614.2300	614.2500	614.2610
CATEGORY	POST #1 STA	LOCATION	LF	LF	LF	EACH
0010	250+45	RT	74	32	39.4	1
0010	250+95	LT	67	-	39.4	1
0010	253+41	RT	73		39.4	1
0010	257+28	LT	70	369	39.4	1
		TOTAL 0010	284	401	158	4

E HWY: CTH M COUNTY: BAYFIELD MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 8732-00-72

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							EROSION CO	NTROL SUMMARY						
					624.0100	625.0100	628.1504	628.1520	628.1905	628.1910	628.2006	629.0210	630.0120	630.0500
									MOBILIZATIONS	MOBILIZATIONS			SEEDING	
								SILT FENCE	EROSION	EMERGENCY	EROSION MAT URBAN		MIXTURE	
					WATER	TOPSOIL	SILT FENCE	MAINTENANCE	CONTROL	EROSION CONTROL	CLASS I TYPE A	FERTILIZER TYPE B	NO. 20	SEED WATER
CATEGORY	STATION	TO	STATION	SIDE	MGAL	SY	ĹF	LF	EACH	EACH	SY	CWT	LB	MGAL
,														
0010	249+56	σ.	251+71	RT		94	215	215			94	0.06	0.3	3
0010	250+08	-	251+90	LT		78	184	184			78	0.05	0.3	3
0010	252+48	=	254+30	LT		83	185	185			83	0.05	0.3	3
0010	252+68	-	257+35	RT		222	561	561			222	0.14	0.8	7
0010	258+42	2	258+51	RT			25	25						
0010	UNDISTRIBU	TED			100	500			2	2	500	0.32	1.8	14
			TOTAL		100	978	1,170	1,170	2	2	978	1	4	30

											637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F		634.0616 POSTS WOOD 4X6- INCH X 16-FT	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMA SIGN SUPPOR
CATE	CORV	CTATION	CIDE	DIRECTION	CODE		DESCRIPTION		WIDTH	HEIGHT	C.F.	c.c.	ORDER LINE 1	FACIL	FACIL	FACIL
CATE	GORY	STATION	SIDE	DIRECTION	CODE		DESCRIPTION		(IN)	(IN)	SF	SF	ORDER LINE 1	EACH	EACH	EACH
00	010	100+74	29 LT	SB		R1-1	STOP		30	30	5.18			1	1	1
00	10	102+95	28 LT	WB		R2-1	SPEED LIMIT		24	30	5.00		25	1	1	1
00	010	109+70	24 LT	WB		R2-1	SPEED LIMIT		24	30	5.00		35	1	1	1
00	010	115+23	25 LT	WB		W3-5	SPEED REDUCT	TON AHEAD	36	36		9.00	35	1	1	1
00	10	119+89	27 LT	WB		12-3	MUNICIPALITY	/POPULATION	54	24	9.00		CABLE	1	1	1
00	010	169+73	52 LT	SB		R1-1	STOP		30	30	5.18			1	1	1
00	10	205+38	24 LT	WB	38	W1-2L	ROAD CURVES	LEFT	36	36		9.00		1	1	1
00	010	205+38	24 LT	WB		W 13-1	SPEED WARNI	NG	18	18		2.25	45	840	1	5/20t
00	010	206+81	29 LT	WB	Ĵ	D9-52L	AIRPORT W/A	RROW	36	36	9.00			1	1	1
00	10	209+01	22 LT	WB		W2-2	SIDE ROAD (RI	GHT ANGLE) SYMBOL	30	30		6.25		1	1	1
00	010	213+73	22 LT	WB		W11-6	SNOMOBILE R	DUTE W/ SYMBOL	30	30		6.25		1	1	1
00	010	222+26	26 LT	WB		155-56	ADOPT A HIGH	WAY	30	18	3.75			1	1	1
00	010	222+26	26 LT	WB		I55-56P	ADOPT A HIGH	WAY SPONSOR (NAME)	30	18	3.75			170	1	850
00	10	222+83	50 LT	SB		R1-1	STOP				5.18			1	1	1
00	010	227+93	25 LT	WB		W13-1	SPEED WARNI	NG	18	18		2.25	45	1	1	1
00	010	227+93	25 LT	WB	8	W1-5L	ROAD SHARP (URVES	30	30		6.25		ATS 9页号	1	973
00	010	246+16	48 LT	SB		R1-1	STOP				5.18			1	1	1
00	010	251+65	17 RT	WB	,	W 5-52R	BRIDGE HASH	MARKS	12	36		3.00		1	1	1
00	010	251+86	17 LT	WB	,	W 5-52L	BRIDGE HASH	MARKS	12	36		3.00		1	1	1
		258+04	63 LT	SB		R1-1	STOP				5.18			1	1	1
		320+58	43 LT	SB		R1-1	STOP				5.18			1	1	1
00		386+45	22 LT	WB		D11-10	ATV ROUTE W	SYMBOL	24	18	3.00			1	1	1
00		386+45	22 LT	WB	N	M1-88A	ARROW		12	12	1.00			15.00 15.00	1	850
	010	386+45	22 LT	WB		M4-6	END		24	12	2.00			52%	1	
-								EASTBOUND TO	DTAL		72.58	47.25		19	24	19
IO: 8732	2-00-72			Т	HWY: CTH M			COUNTY: BAYFIELD		<u> </u>	SCELLANEOUS QI					SHEE

	\$450000000	ALC: NO.

						WIDTH	HEIGHT	643.0500 SIGNS TYPE II REFLECTIVE H AREA	643.0715 SIGNS TYPE II REFLECTIVE F AREA		639.0504 POSTS WOOD 4X6- INCH X 16-FT	643.1050 REMOVING SIGNS TYPE II	643.1051 REMOVING SMA SIGN SUPPORT
ATEGORY	STATION	SIDE	DIRECTION	CODE	DESCRIPTION	(IN)	(IN)	(SF)	(SF)	ORDER LINE 1	EA	EA	EA
2012	102+72	23 RT	EB	R2-1	CDETALLATE	2.4	20	5.00		2.5	*	~	
0010		30 RT	NB	R1-1	SPEED LIMIT	24	30	5.00		35	1	1	1
0010		25 RT	EB	R2-1	STOP SPEED LIMIT	30	30	5.18		EE	1	1	1
0010		32 RT	NB	R1-1	STOP	24 30	30 30	5.00 5.18		55	1	1	1
0010		32 RT	NB	R5-51	NO ATV TRAFFIC	24	24	4.00			1	1	1
0010		42 RT	NB	R1-1	STOP	30	30	5.18			1	1	1
0010	170+13	42 RT	NB	D11-6	SNOMOBILE ROUTE W/ SYMBOL	24	18	3.00			-	1	
0010	191+17	24 RT	EB	S3-1	SCHOOL BUS STOP AHEAD	30	30	6.25			1	1	1
0010	195+87	23 RT	EB	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL	30	30	0.23	6.25		1	1	1
0010	198+47	26 RT	EB	D9-52R	AIRPORT W/ ARROW	36	36		0.23		÷	531	***
0010		29 RT	NB	R1-1	STOP	30	30	5.18			1	1	1
0010		26 RT	EB	W11-6	SNOMOBILE ROUTE W/ SYMBOL	30	30	3.20	6.25		1	1	1
0010		24 RT	EB	W13-1	SPEED WARNING	18	18		2.25	45	1	1	1
0010		24 RT	EB	W1-2L	ROAD CURVES LEFT	36	36		9.00		-	1	****
0010		28 RT	EB	W1-8	CHEVRON	18	24	3.00	3.00		1	1	1
0010	209+49	28 RT	WB	W1-8	CHEVRON	18	24	3.00			5 6	1	20 20
0010		27 RT	EB	W1-8	CHEVRON	18	24	3.00			1	1	1
0010		27 RT	WB	W1-8	CHEVRON	18	24	3.00			-	1	-
0010		28 RT	EB	W1-8	CHEVRON	18	24	3.00			1	1	1
0010	211+26	28 RT	WB	W1-8	CHEVRON	18	24	3.00			8	1	Ę
0010	212+13	29 RT	EB	W1-8	CHEVRON	18	24	3.00			1	1	1
0010	212+13	29 RT	WB	W1-8	CHEVRON	18	24	3.00			2	1	4
0010	212+96	30 RT	EB	W1-8	CHEVRON	18	24	3.00			1	1	1
0010	212+96	30 RT	WB	W1-8	CHEVRON	18	24	3.00				1	:=
0010	213+86	31 RT	EB	W1-8	CHEVRON	18	24	3.00			1	1	1.
0010	213+86	31 RT	WB	W1-8	CHEVRON	18	24	3.00			~ ~	1	4
0010	223+03	29 RT	SB	M1-5A	COUNTY ROUTE MARKER	24	24	4.00		M	1	1	1
0010	223+03	29 RT	SB	M6-4	DOUBLE DIRECTIONAL ARROW	21	21	3.06				1	
0010	252+50	17 RT	EB	W 5-52R	BRIDGE HASH MARKS	12	36		3.00		1	1	1
0010	252+69	17 LT	EB	W 5-52L	BRIDGE HASH MARKS	12	36		3.00		1	1	1
0010	245+36	35 RT	NB	R1-1	STOP	30	30	5.18			1	1	1
0010	263+99	38 RT	NB	R1-1	STOP	30	30	5.18			1	1	1
0010	273+42		NB	R1-1	STOP	30	30	5.18			1	1	1
0010	297+05		NB	R1-1	STOP	30	30	5.18			1	1	1
0010	316+35		NB	R1-1	STOP	30	30	5.18			1	1	1
0010		22 RT	EB	W1-2L	ROAD CURVES LEFT	36	36		9.00		1	1	1.
0010	386+38		SB	R2-1	SPEED LIMIT	24	30	5.00		45	1	1	1
0010	386+38		SB	D11-8	SNOMOBILE AND ATV ROUTE W/ SYMBOLS	24	18	3.00			~	1	×
0010	386+42		SB	W11-15	BICYCLE/PEDESTRIAN SYMBOL	30	30		6.25		1	1	1
0010	386+67	39 RT	NB	RI-I	STOP	30	30	5.18			1	1	1
					WESTBOUND T	TOTAL		126.11	45.00		28	39	28
					PROJECT T	ΓΟΤΑΙ		198.69	92.25		47	63	47

SIGNING

FILE NAME : G:\2019-PROJ\\19467123\C3D\SHEETSPLAN\\030101_MQ.DWG LAYOUT NAME - 04

PROJECT NO: 8732-00-72

HWY: CTH M

PLOT DATE: 2/5/2021 3:51 PM

COUNTY: BAYFIELD

PLOT BY: AARON SCHARF

MISCELLANEOUS QUANTITIES

PLOT NAME :

PLOT SCALE : 1" = 1'

SHEET

WISDOT/CADDS SHEET 42

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PAVEMENT MARKING ITEMS

CATEGORY	STATION 1	го	STATION	LOCATION	_	MARKING LINE EPOXY 4-INCH WHITE 646.1020 LF	MARKING LINE SAME DAY EPOXY 4-INCH 646.4520 LF	LOCATING NO- PASSING ZONES 648.0100 MI	TEMPORARY MARKING LINE PAINT 4-INCH 649.0105 LF	 REMARKS
	400.55		207.00			20427				WWITE ED OF WE
0010 0010		7.	387+00	LT RT		28137 27996				WHITE, EDGELINE
0010		ē.	387+00 387+00	LT/RT		27996		5.4		WHITE, EDGELINE
0011			111+87	LT/RT			2164	3.4	4328	YELLOW, CL, DOUBLE YELLOW
0012		7	126+29	LT/RT			1803		3605	YELLOW, CL, NO PASSING WESTBOUN
0013			138+65	LT/RT			309		618	YELLOW, CL, PASSING ZONE
0014			149+54	LT/RT			1361		2723	YELLOW, CL, NO PASSING EASTBOUNI
0015	149+54	÷	158+42	LT/RT			1776		3552	YELLOW, CL, DOUBLE YELLOW
0016			160+39	LT/RT			246		493	YELLOW, CL, NO PASSING EASTBOUNI
0017	160+39		167+07	LT/RT			167		334	YELLOW, CL, PASSING ZONE
0018	167+07		169+75	LT/RT			335		670	YELLOW, CL, NO PASSING WESTBOUN
0019	169+75	-	174+51	LT/RT			952		1904	YELLOW, CL, DOUBLE YELLOW
0020			182+23	LT/RT			965		1930	YELLOW, CL, NO PASSING WESTBOUN
0021			184+61	LT/RT			60		119	YELLOW, CL, PASSING ZONE
0022			194+99	LT/RT			1298		2595	YELLOW, CL, NO PASSING EASTBOUN
0023		2		LT/RT			6204		12408	YELLOW, CL, DOUBLE YELLOW
0024		-	234+63	LT/RT			1078		2155	YELLOW, CL, NO PASSING WESTBOUN
0025		2	236+03	LT/RT			35		70	YELLOW, CL, PASSING ZONE
0026		-	248+50	LT/RT			1559		3118	YELLOW, CL, NO PASSING EASTBOUNI
0027		- C	271+87	LT/RT			4674		9348	YELLOW, CL, DOUBLE YELLOW
0028		-	282+71	LT/RT			1355		2710	YELLOW, CL, NO PASSING WESTBOUN
0029	282+71	7	287+13	LT/RT			111		221	YELLOW, CL, PASSING ZONE
0030	287+13	5	309+24	LT/RT			2764		5528	YELLOW, CL, NO PASSING EASTBOUNI
0031		+	311+36	LT/RT			53		106	YELLOW, CL, PASSING ZONE
0032	311+36	÷	322+10	LT/RT			1343		2685	YELLOW, CL, NO PASSING EASTBOUNI
0033	322+10	ŝ	323+45	LT/RT			270		540	YELLOW, CL, DOUBLE YELLOW
0034	323+45	-	334+19	LT/RT			1343		2685	YELLOW, CL, NO PASSING WESTBOUN
0035		2	350+81	LT/RT			416		831	YELLOW, CL, PASSING ZONE
0036		Ē	356+44	LT/RT			704		1408	YELLOW, CL, NO PASSING EASTBOUNI
0037		-	361+91	LT/RT			137		274	YELLOW, CL, PASSING ZONE
0038	361+91			LT/RT			671		1343	YELLOW, CL, NO PASSING WESTBOUN
0038	367+28			LT/RT			1293		2585	YELLOW, CL, NO PASSING EASTBOUNI
0039	377+62			LT/RT			1764		3528	YELLOW, CL, DOUBLE YELLOW
				18	_	12 100 - 100 12 100 11		1000		=
					0010 TOTAL	56133	37205	5.4	74411	

STAKING ITEMS

				STAKINGTE	20000	
					CONSTRUCTION STAKING	
				CONSTRUCTION STAKING	SUPPLEMENTAL CONTROL	
				RESURFACING REFERENCE	(8732-00-02)	
				650.8000	650.9910	
ATEGORY	STATION	то	STATION	LF	LS	REMARKS
0010	100+66	*	387+00	28634	1	
			010 TOTAL	28634		

PROJECT NO: 8732-00-72 FILE NAME : G:\2019-PROJ\19467123\C3D\SHEETSPLAN\030101_MQ.DWG LAYOUT NAME - 05

TRAFFIC CONTROL ITEMS

DAYS

45

TRAFFIC CONTROL SIGNS 643.0900

DAYS

1,125

1,125

HWY: CTH M

#SIGNS

25

CATEGORY

0010

0010 TOTAL

PLOT DATE: 1/28/2021 1:38 PM

COUNTY: BAYFIELD

MISCELLANEOUS QUANTITIES PLOT BY: AARON SCHARF

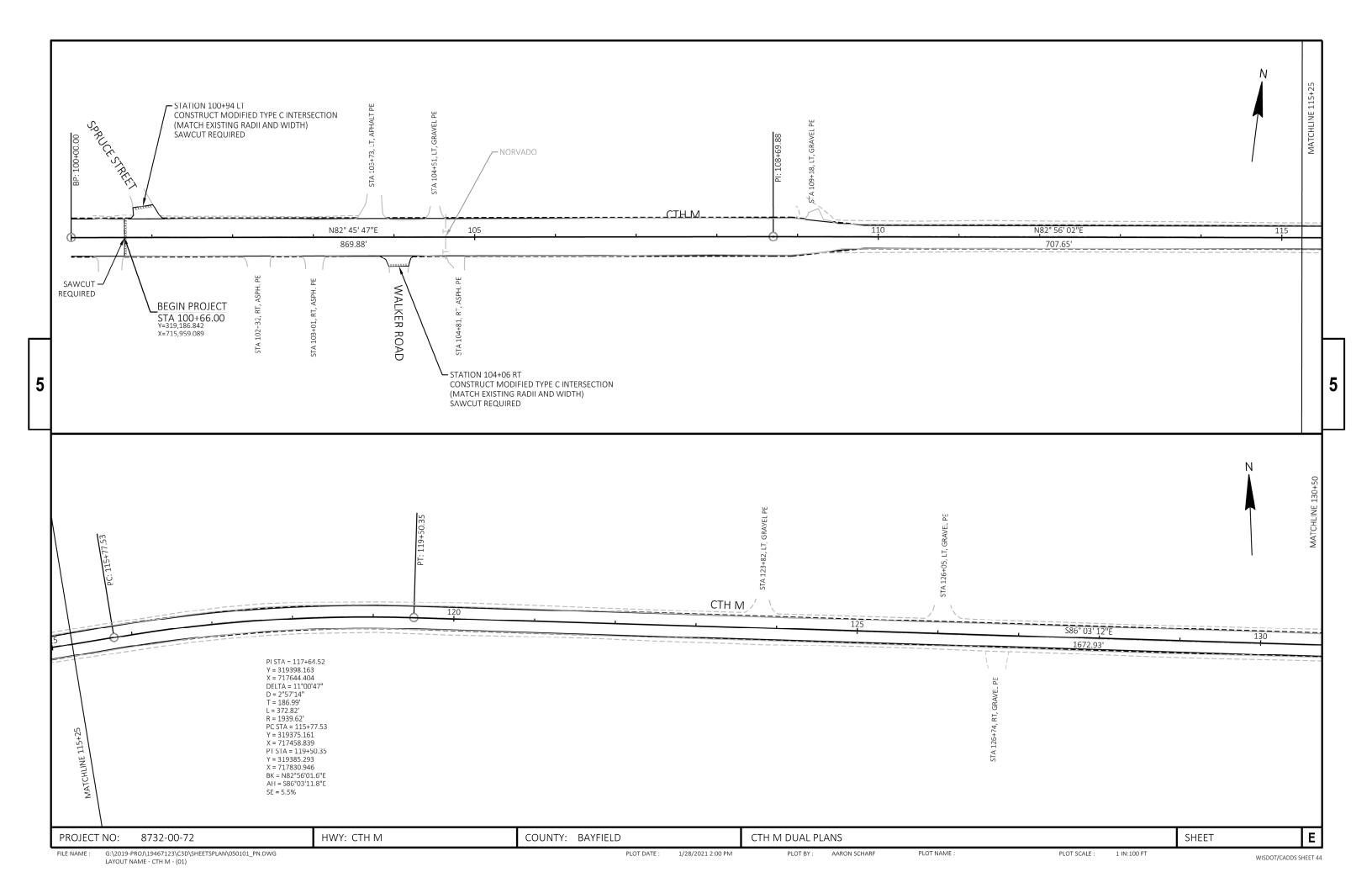
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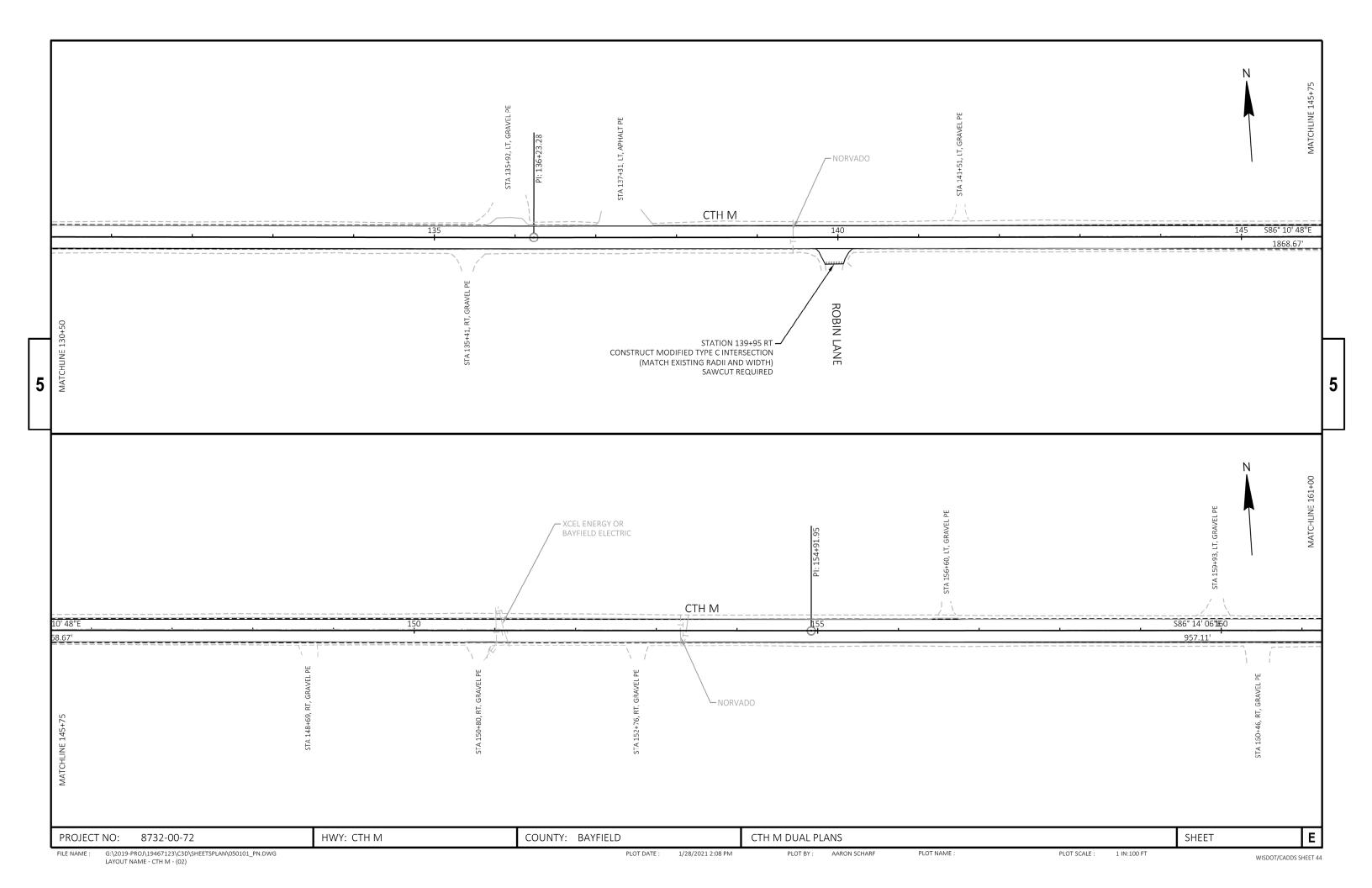
PLOT SCALE : 1" = 1'

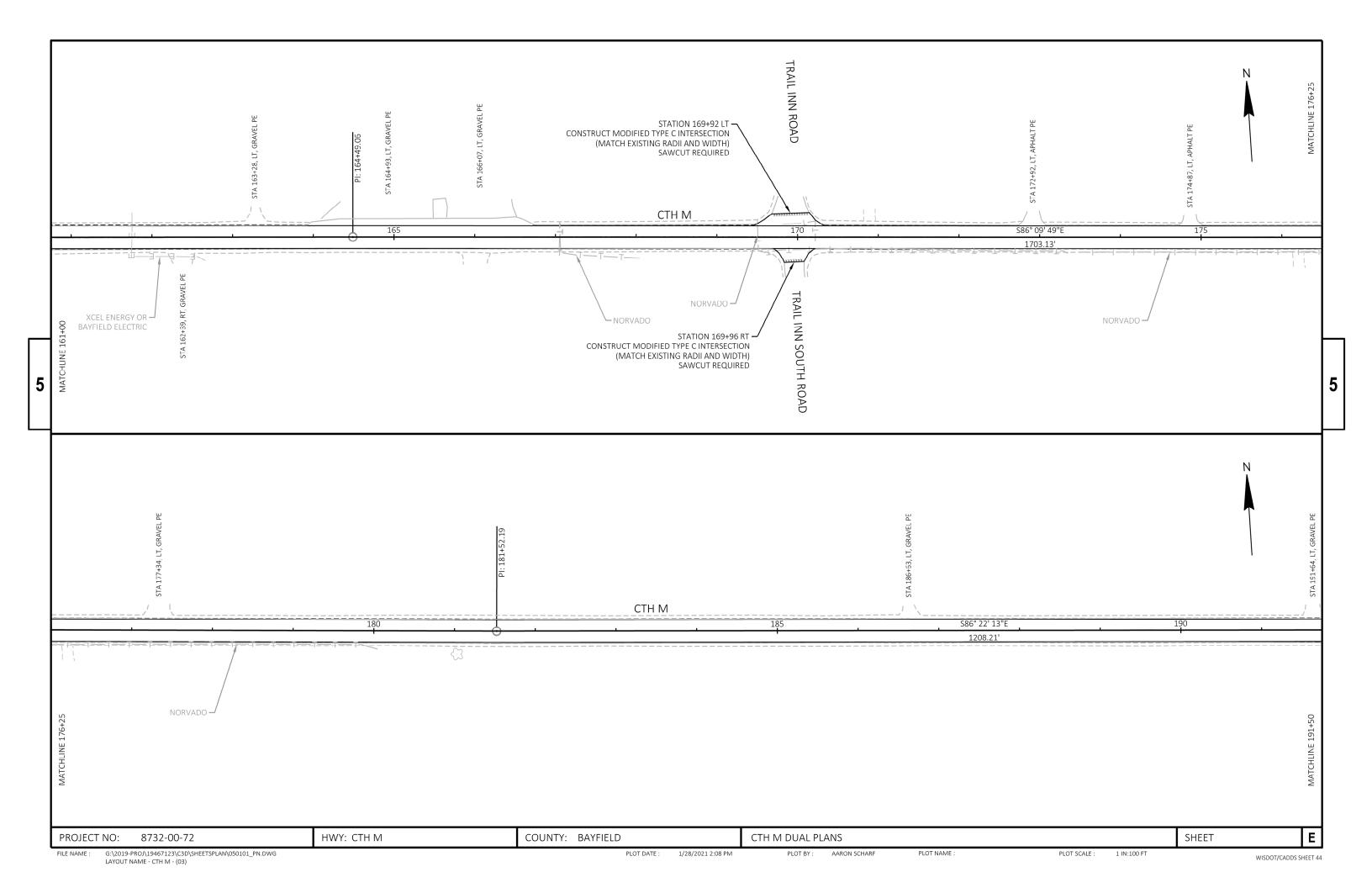
SHEET

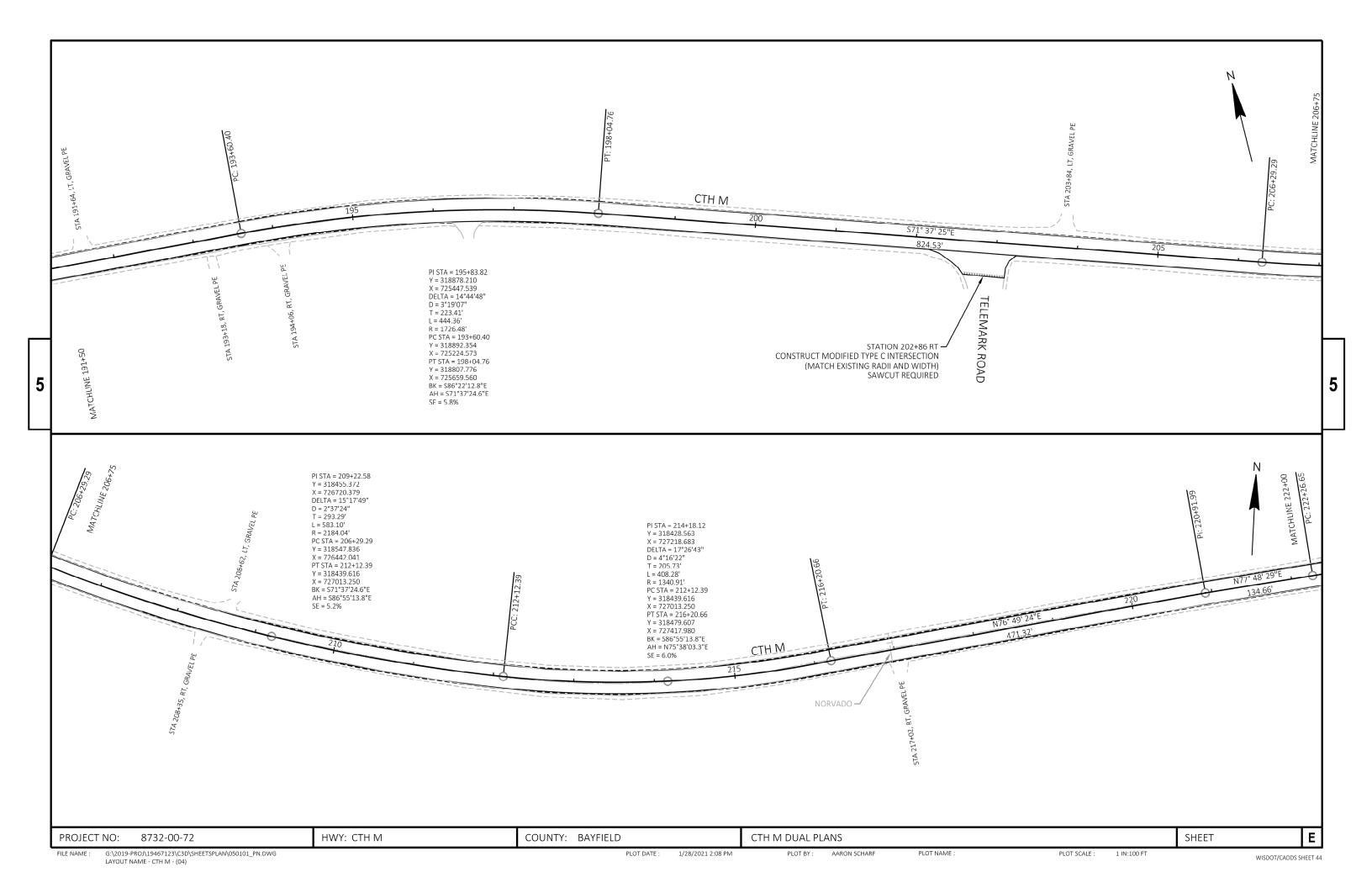
WISDOT/CADDS SHEET 42

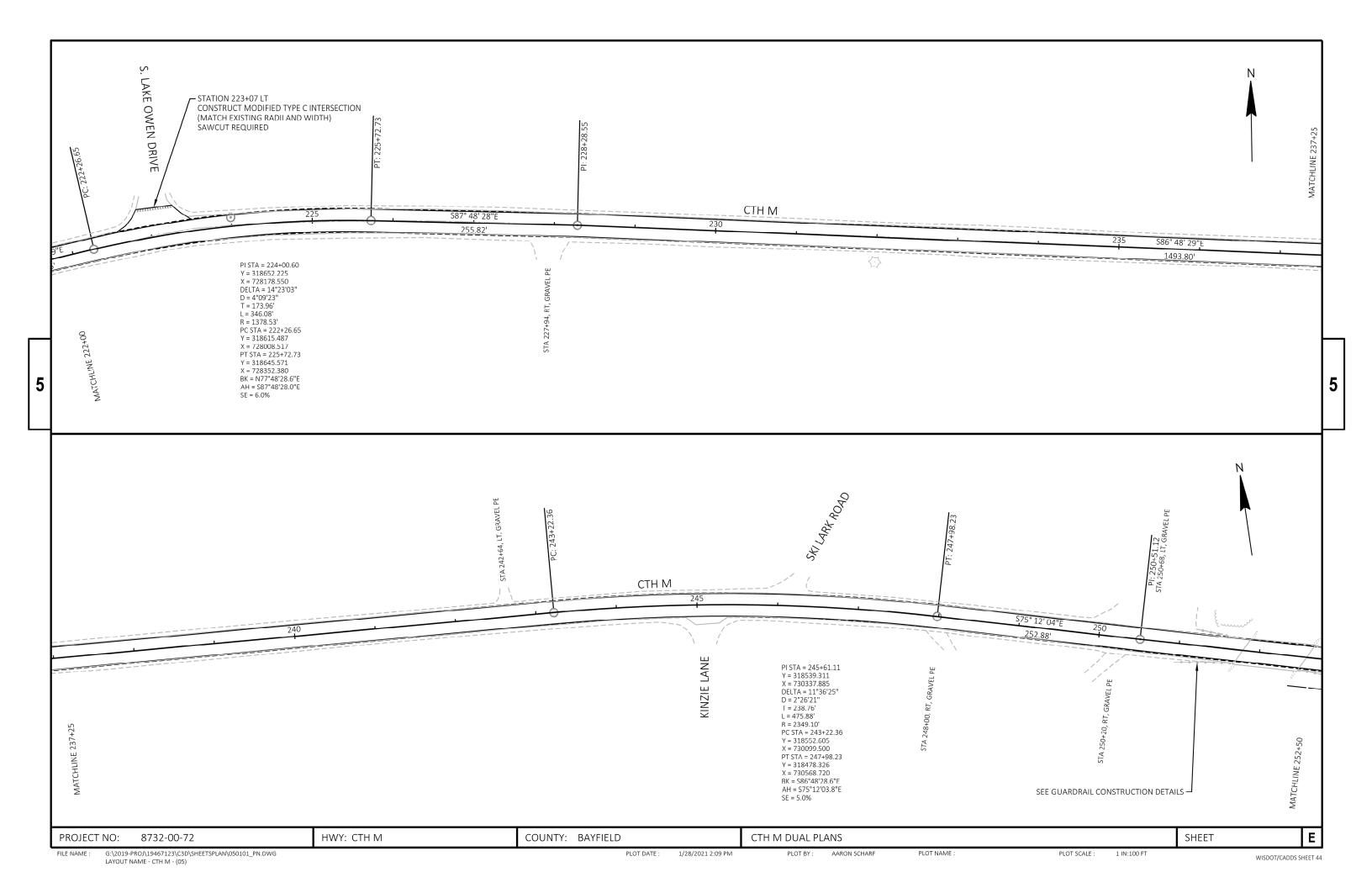
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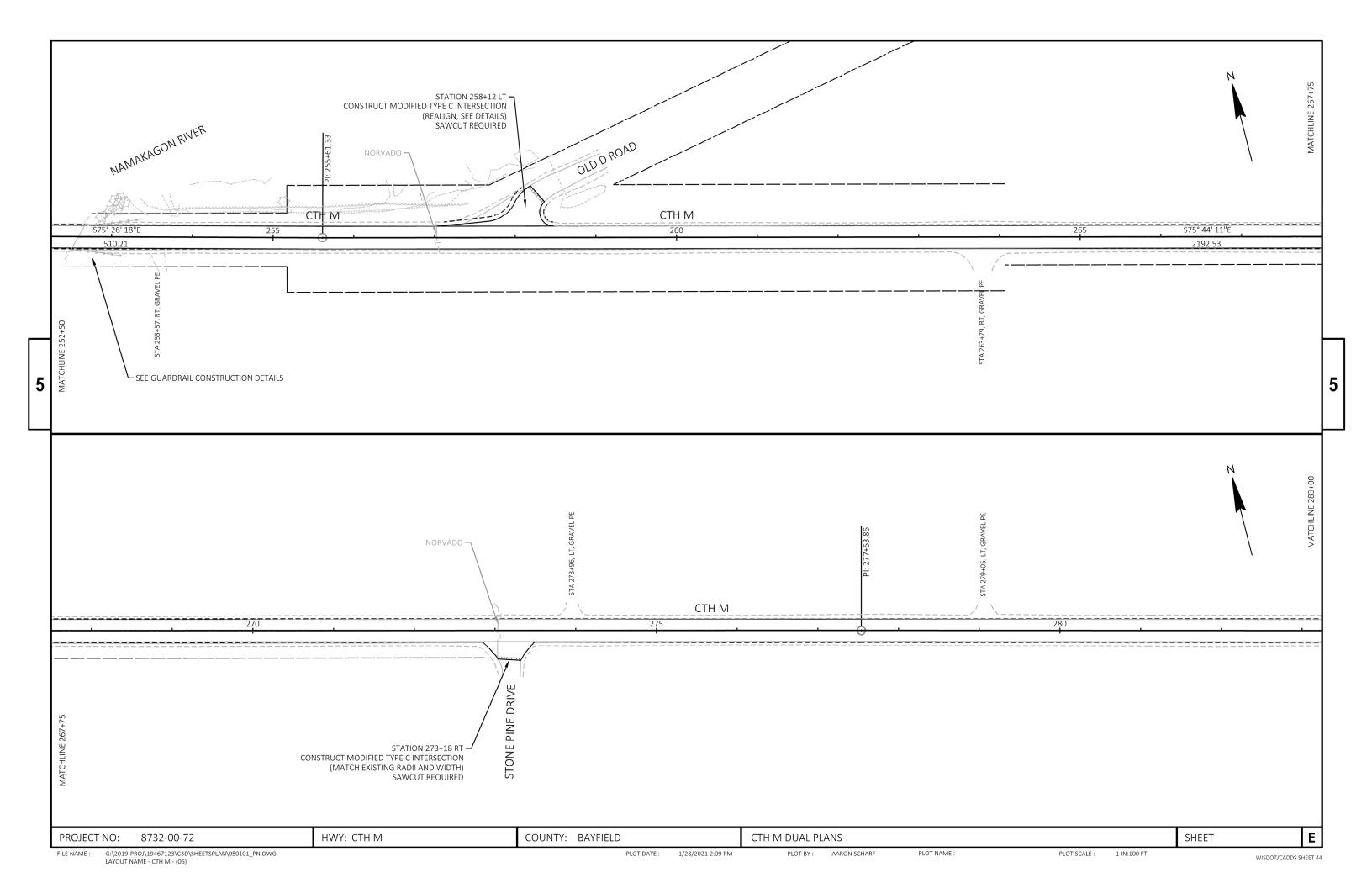


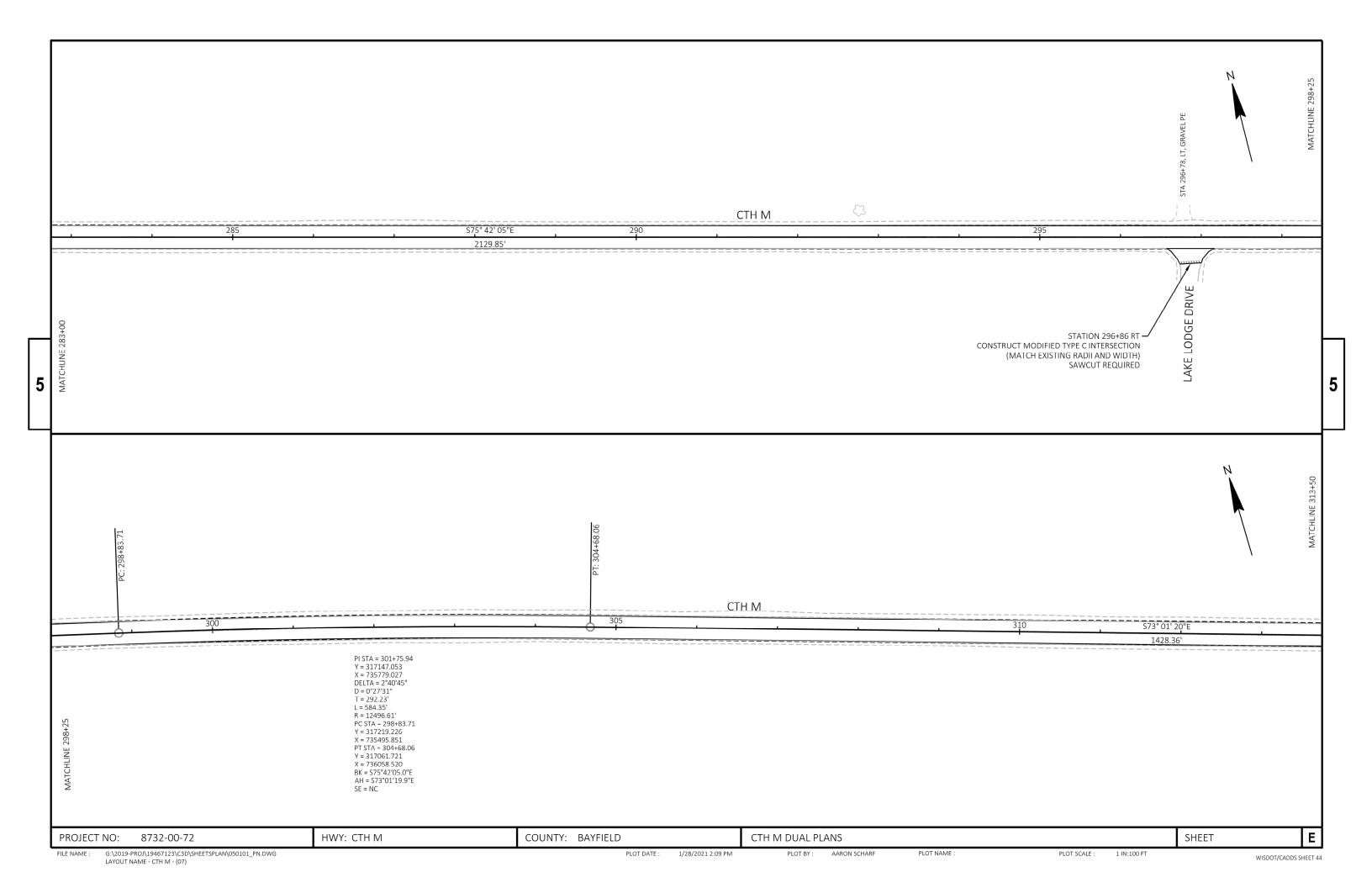


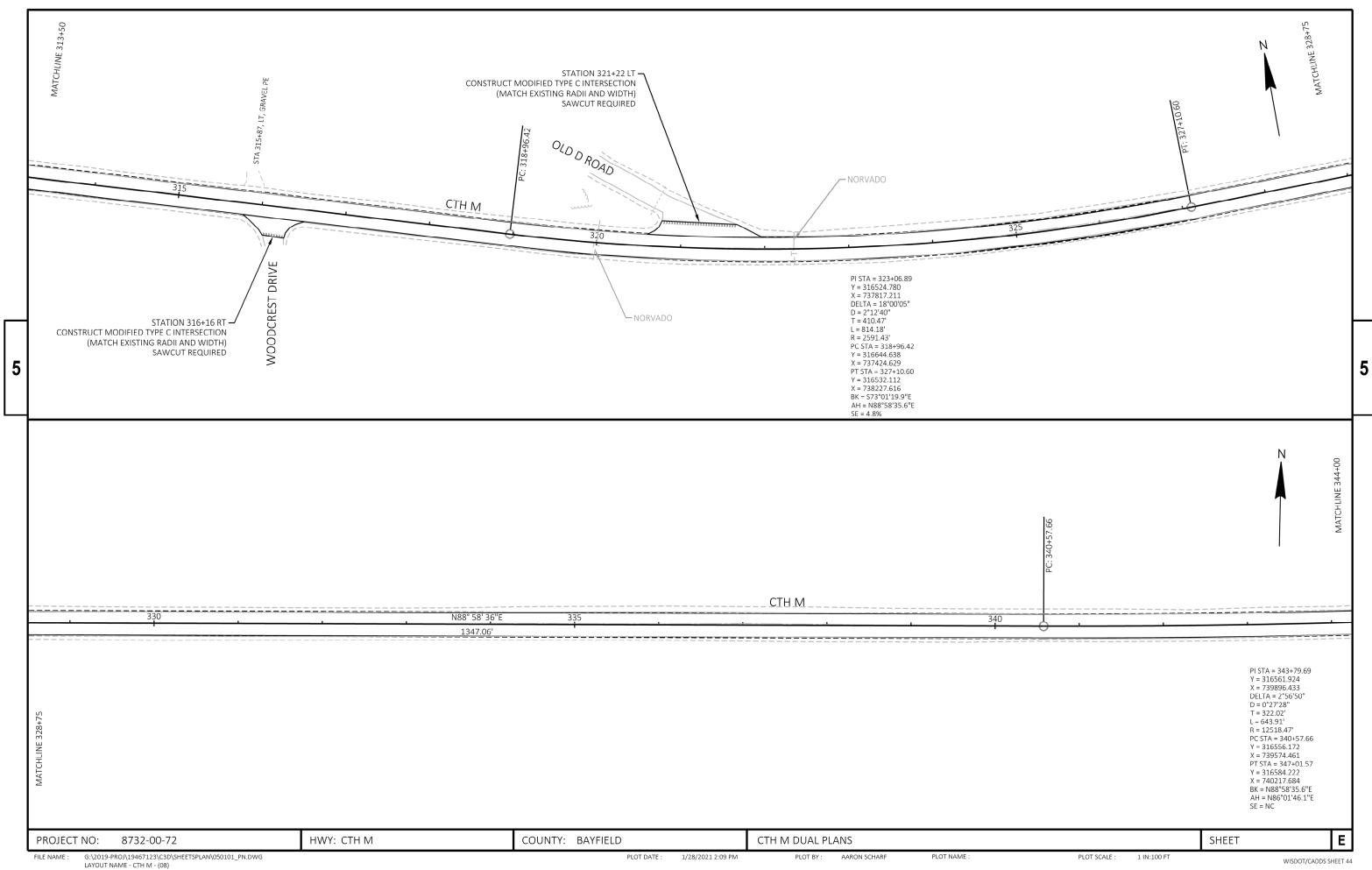


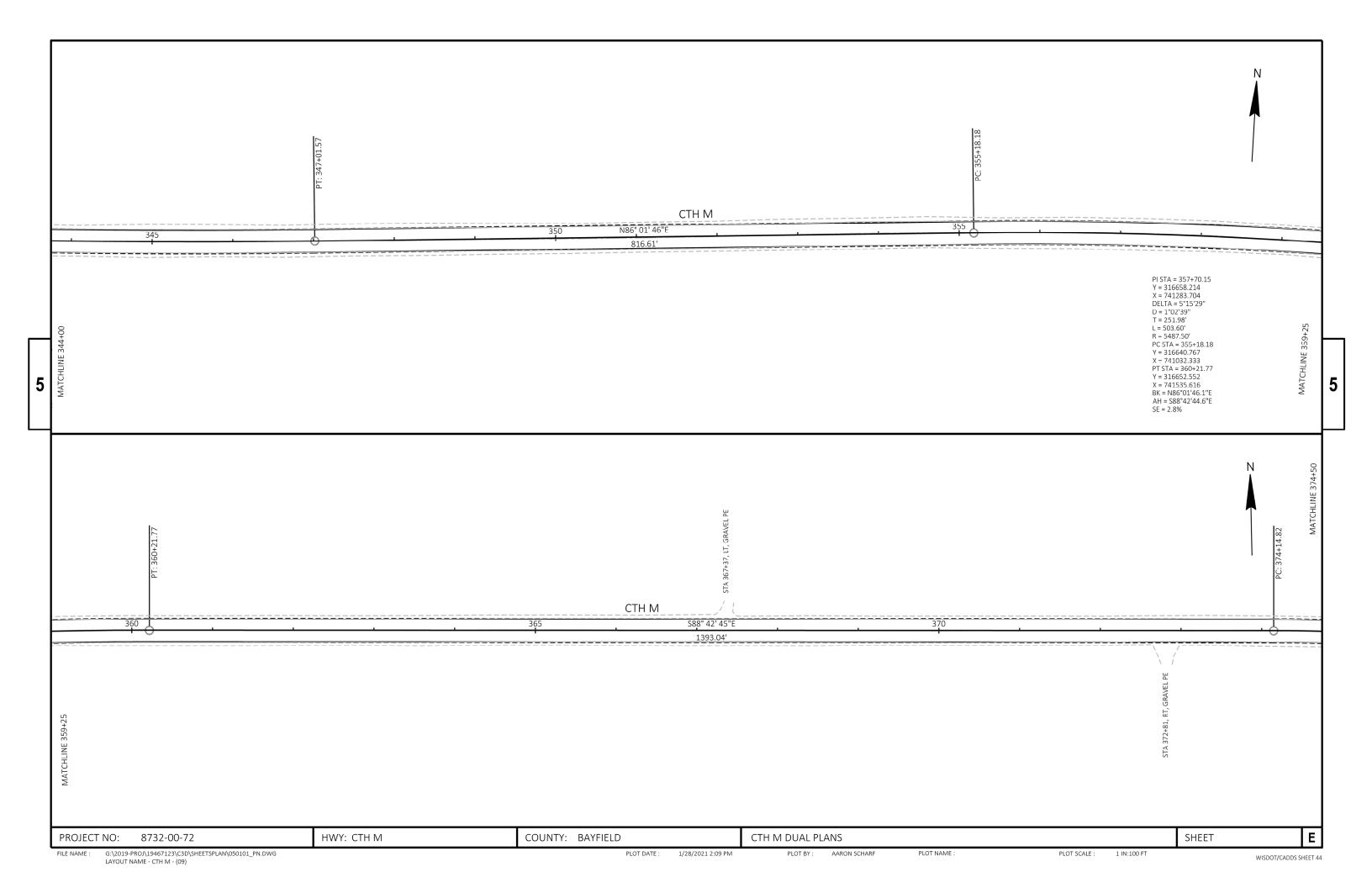


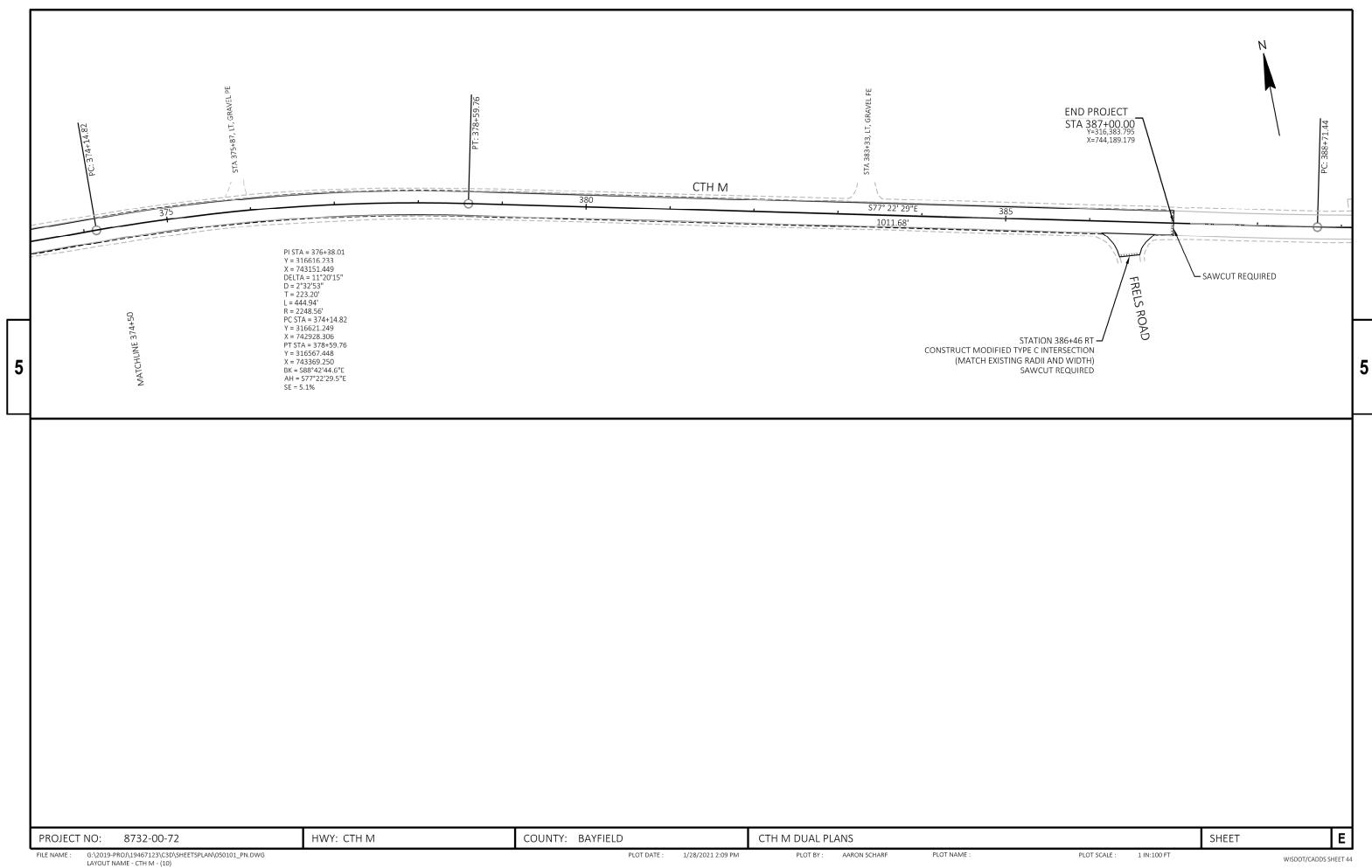








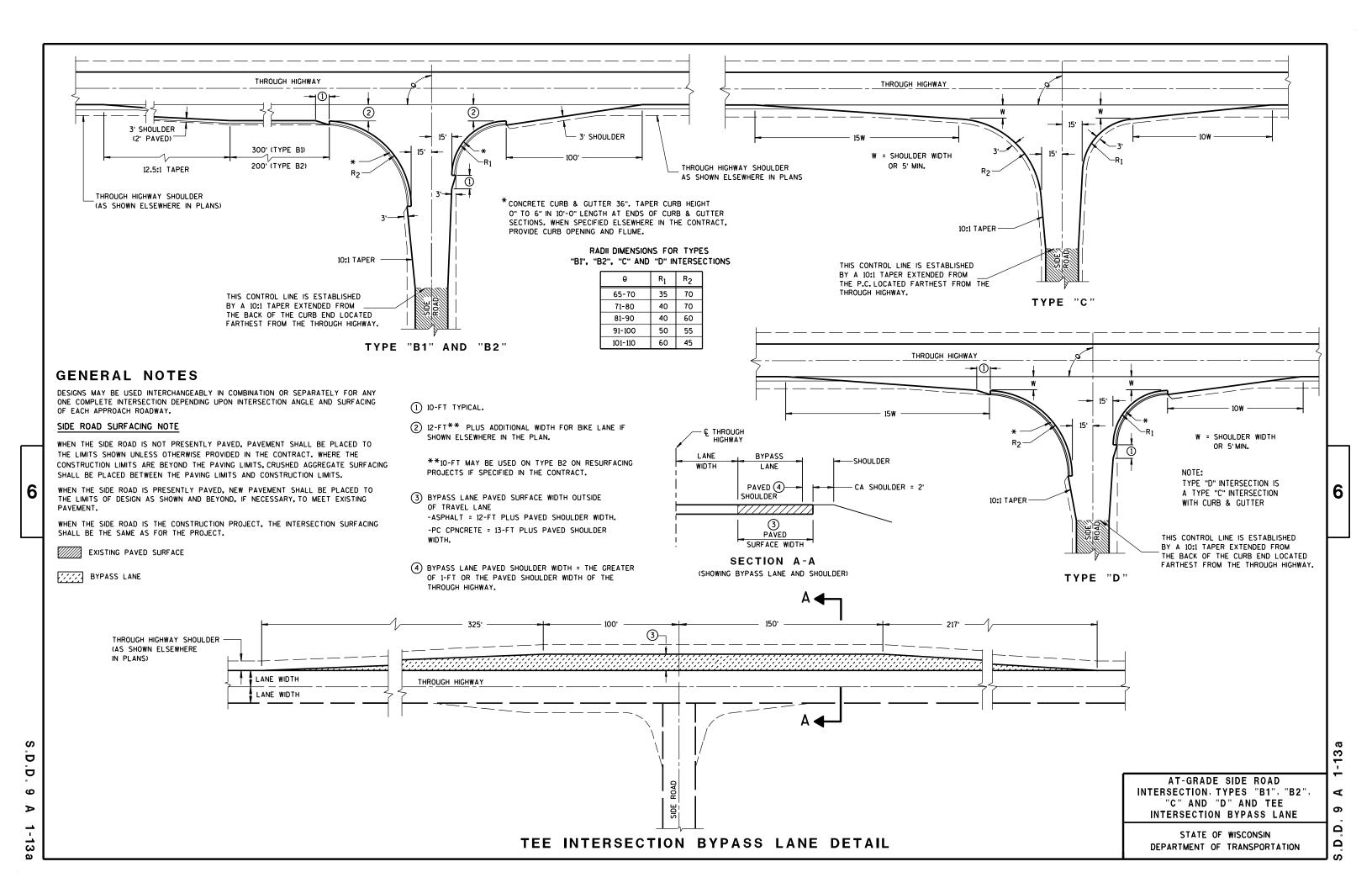




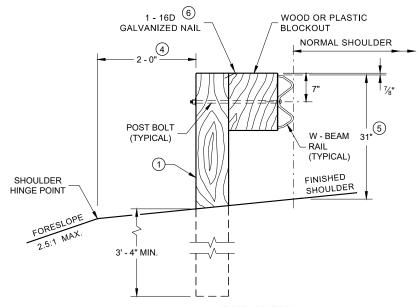
Standard Detail Drawing List

09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SLGNS TO POSTS

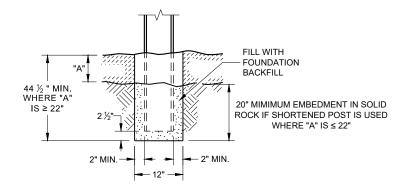
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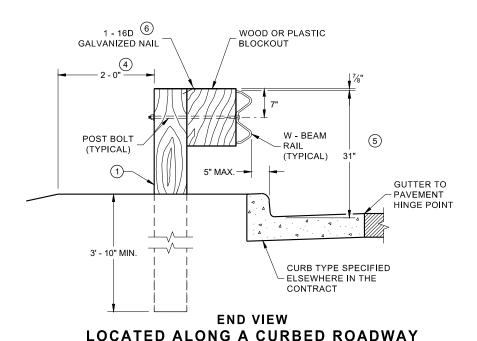
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" 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
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $_{\mbox{\scriptsize (5)}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 $^3\!4''$ 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.

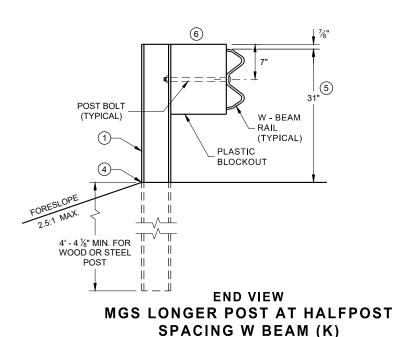


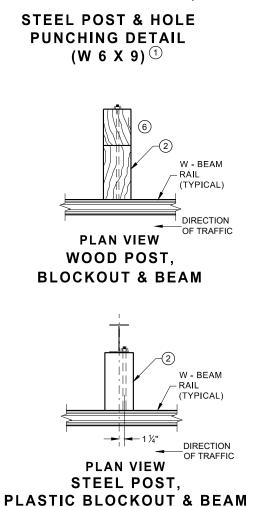
END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

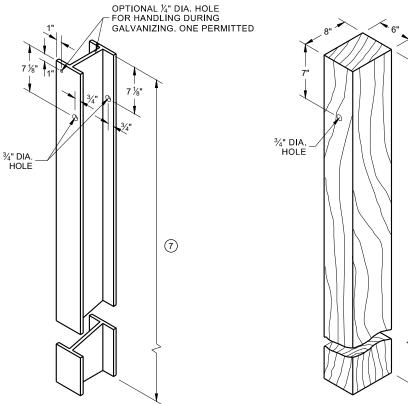


END VIEW SETTING STEEL OR WOOD POST IN ROCK

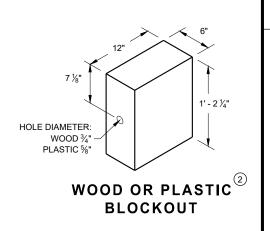








WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SD

FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

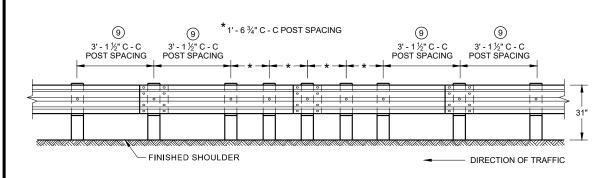
POST SPACING

DIRECTION OF TRAFFIC

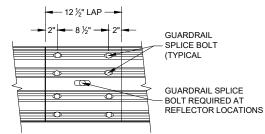
6' - 3" C -C

POST SPACING

FINISHED SHOULDER

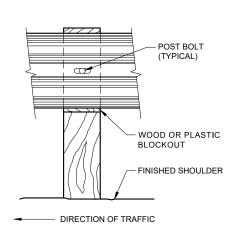


FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

FRONT VIEW AT STEEL POST



GENERAL NOTES

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

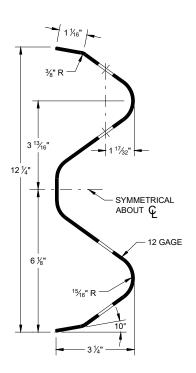
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

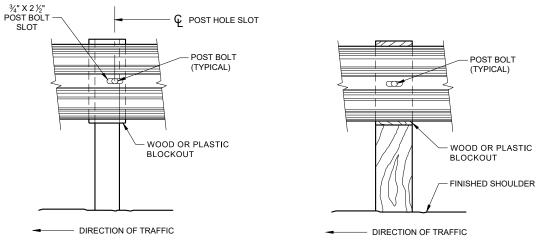
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



4" X 12" DELINEATOR REFLECTOR (REFER TO SDD 15A4 FOR DELINEATOR SPACING) WOOD OR PLASTIC BLOCKOUT MOUNT WITH TWO 3/16" X 2 1/2" TRIPLE COATED SCREWS WITH WASHERS WOOD OR STEEL POST - DIRECTION OF TRAFFIC

ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

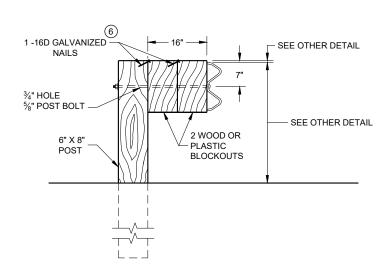
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<u>4</u>

SDD

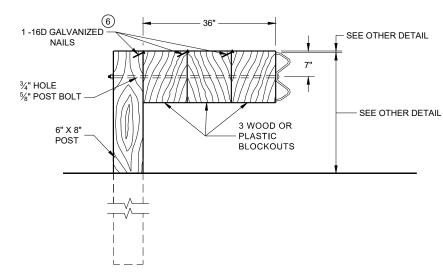
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DETAIL FOR 16" BLOCKOUT DEPTH

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



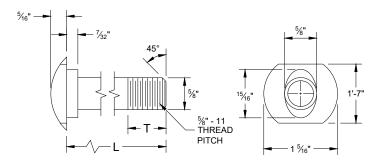
DETAIL FOR 36" BLOCKOUT DEPTH

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

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

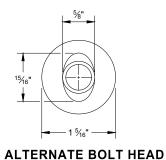
NOTE:

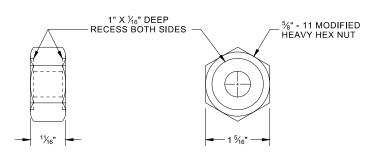
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

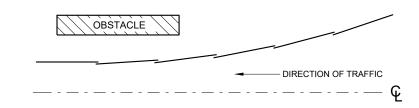
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



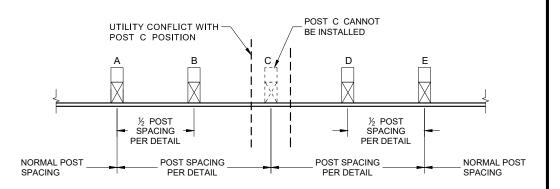


POST BOLT, SPLICE BOLT AND RECESS NUT

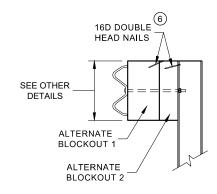
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

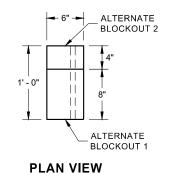


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

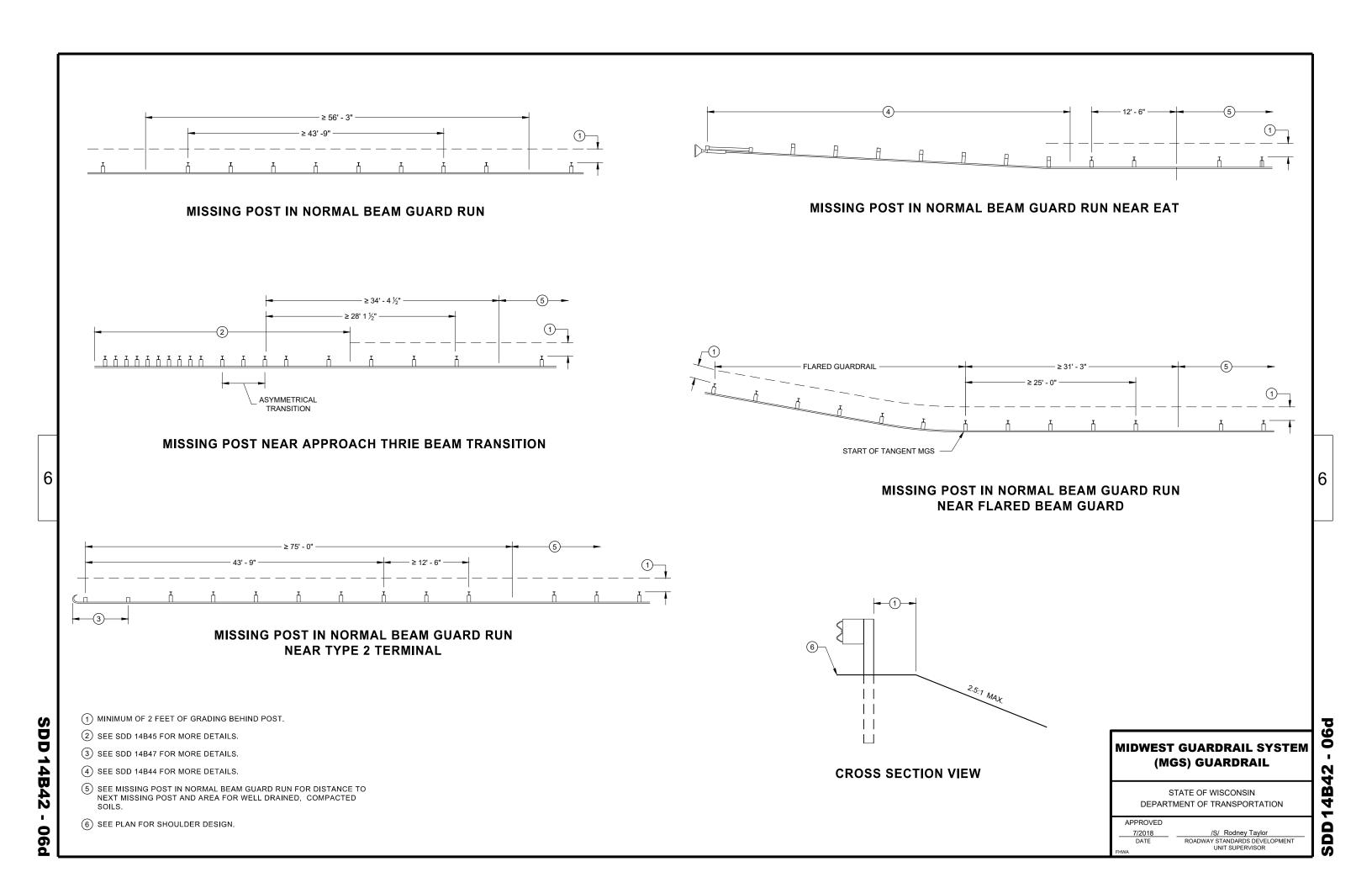
ALTERNATE WOOD BLOCKOUT DETAIL

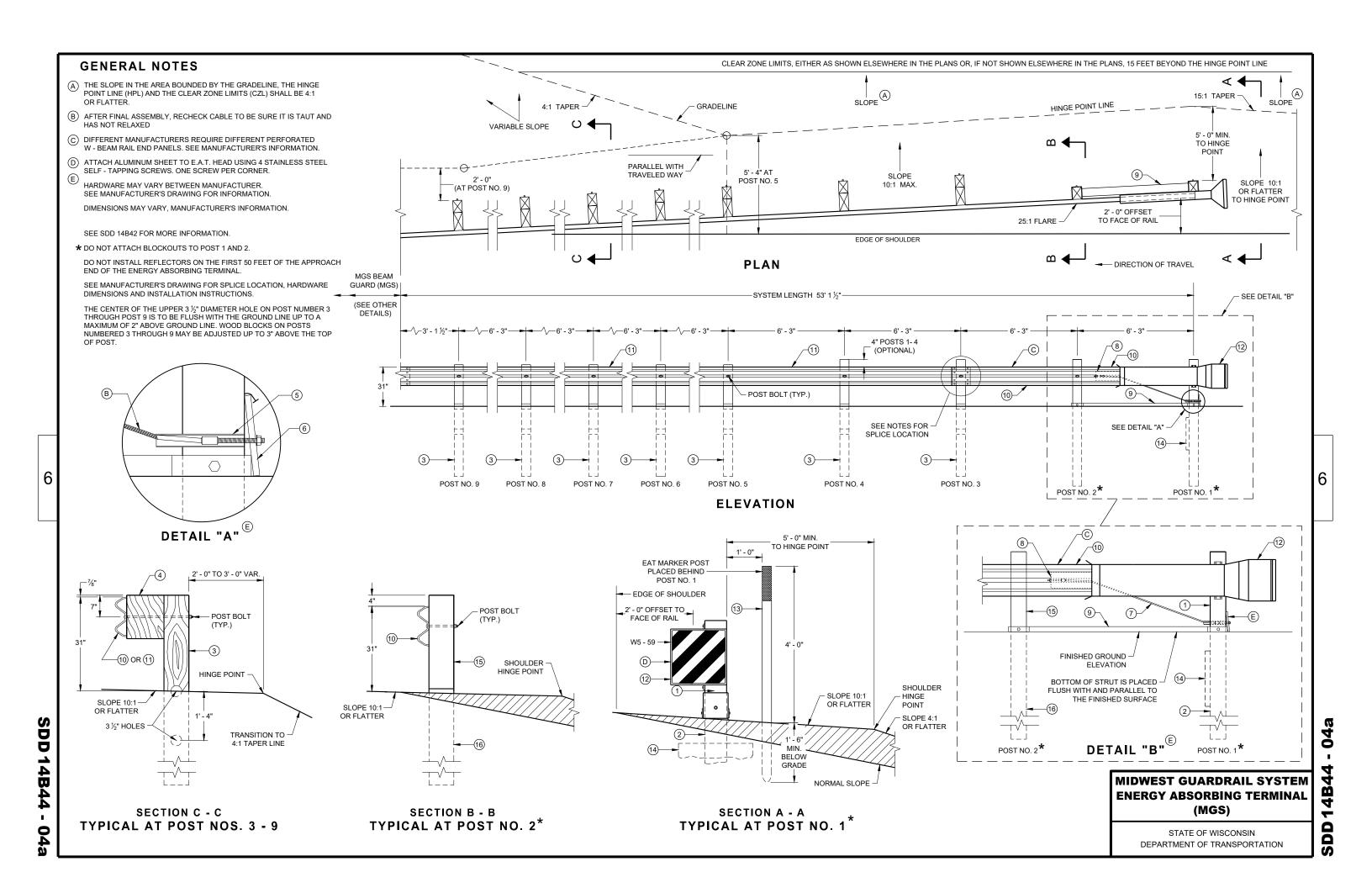
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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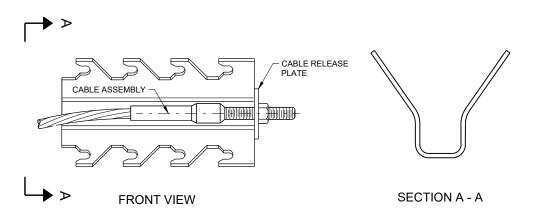
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

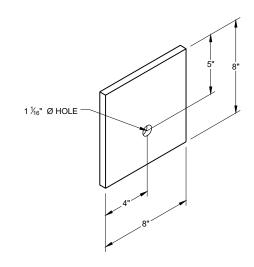




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

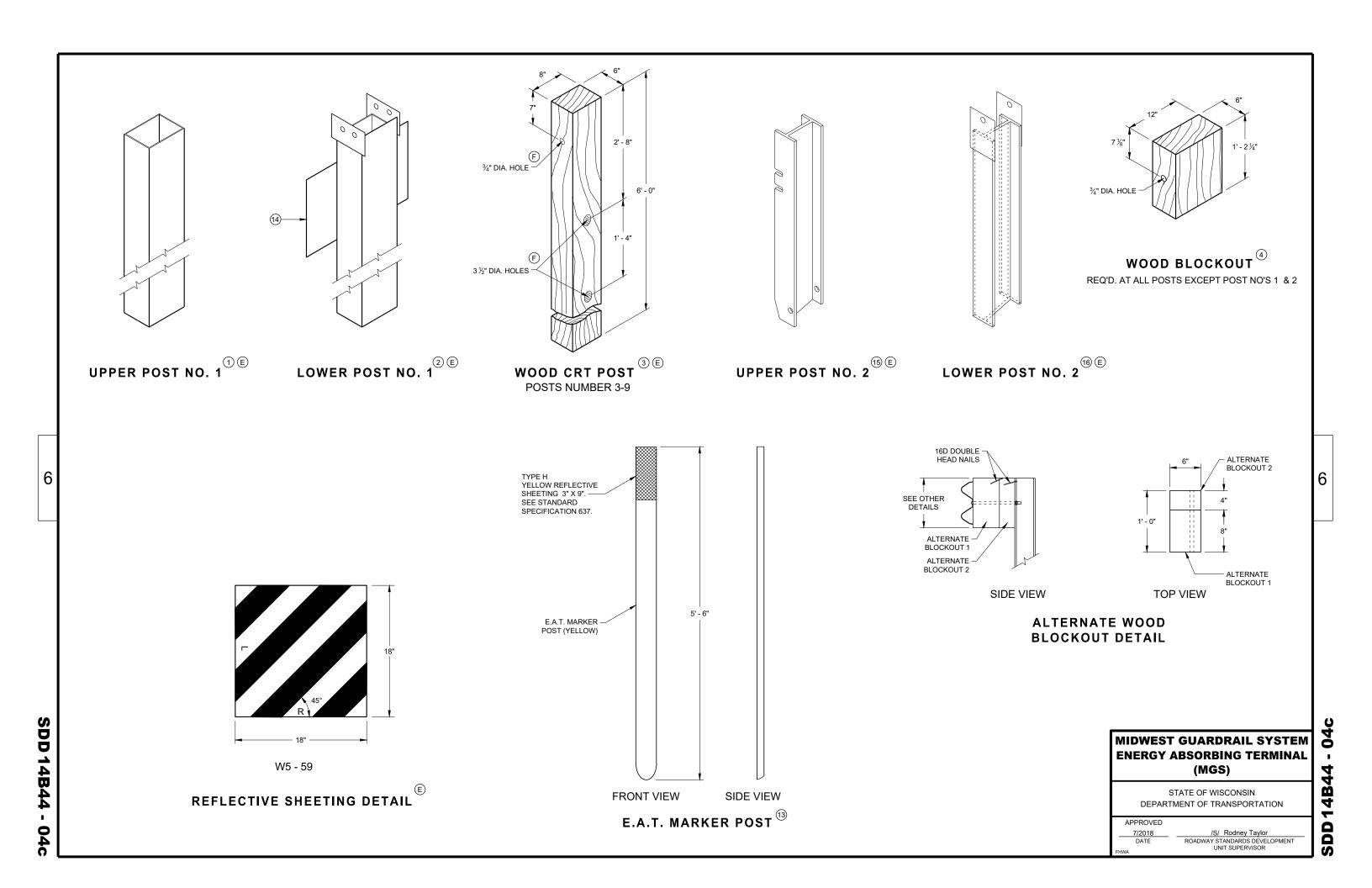
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

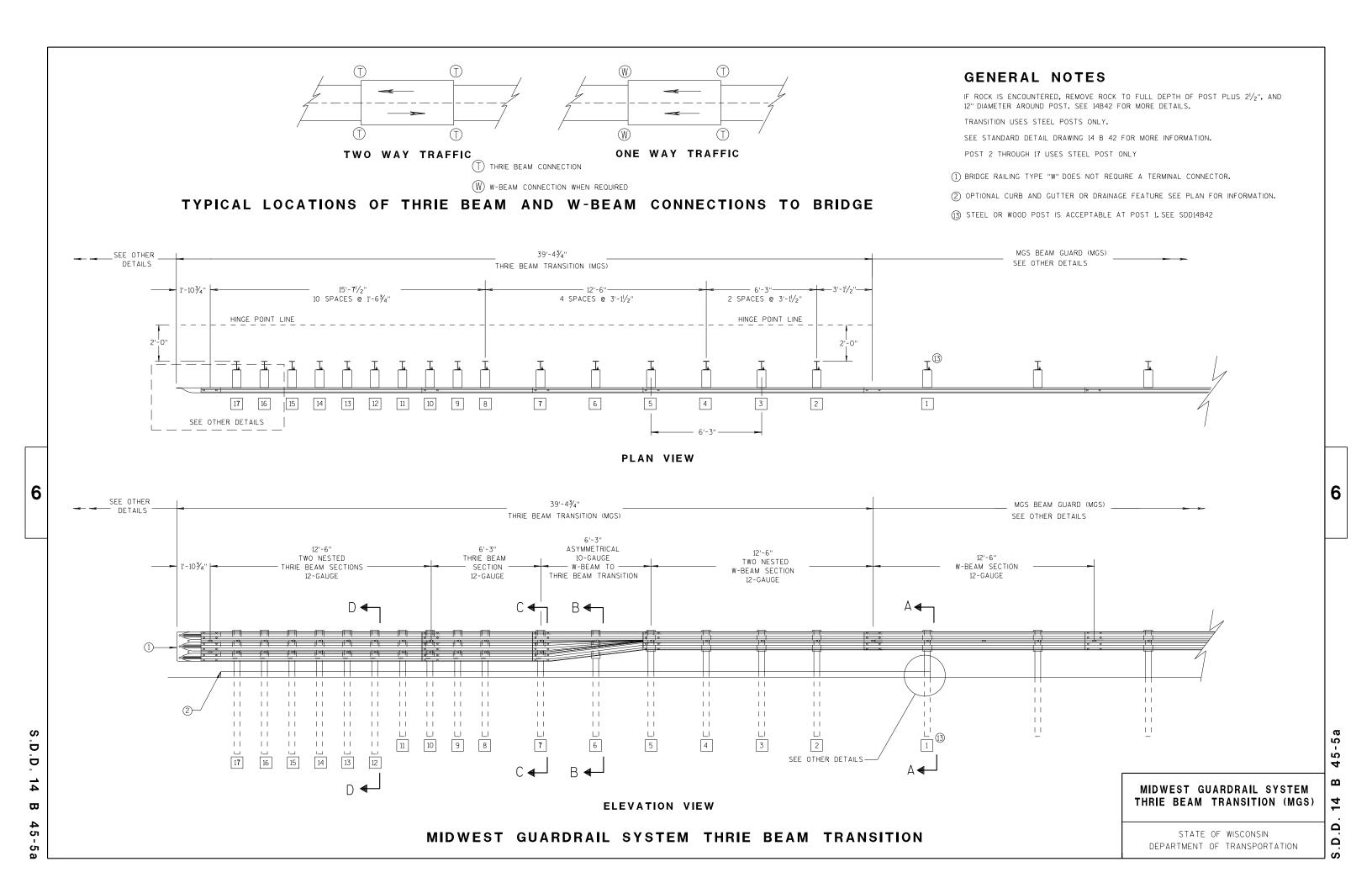
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

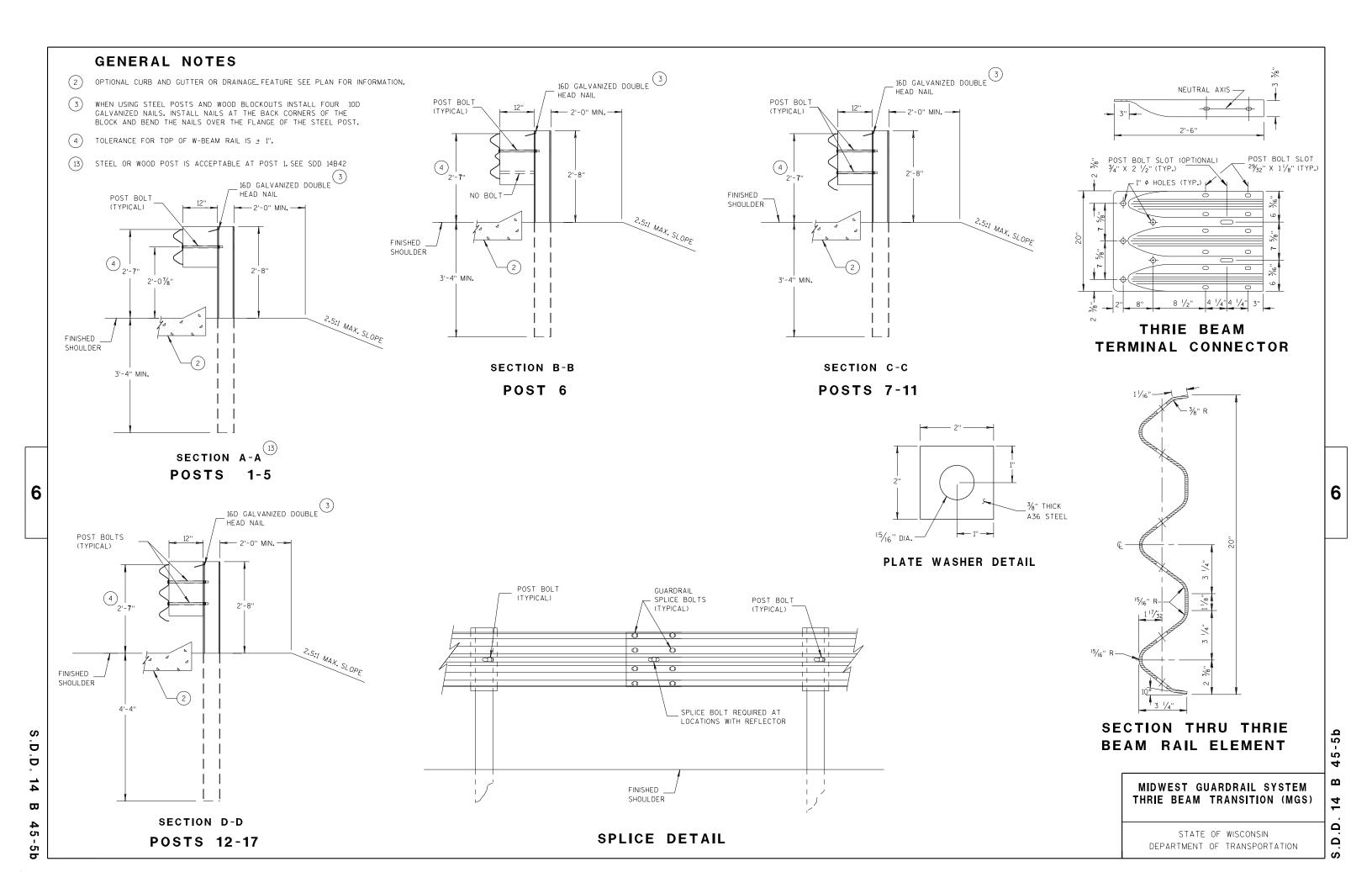
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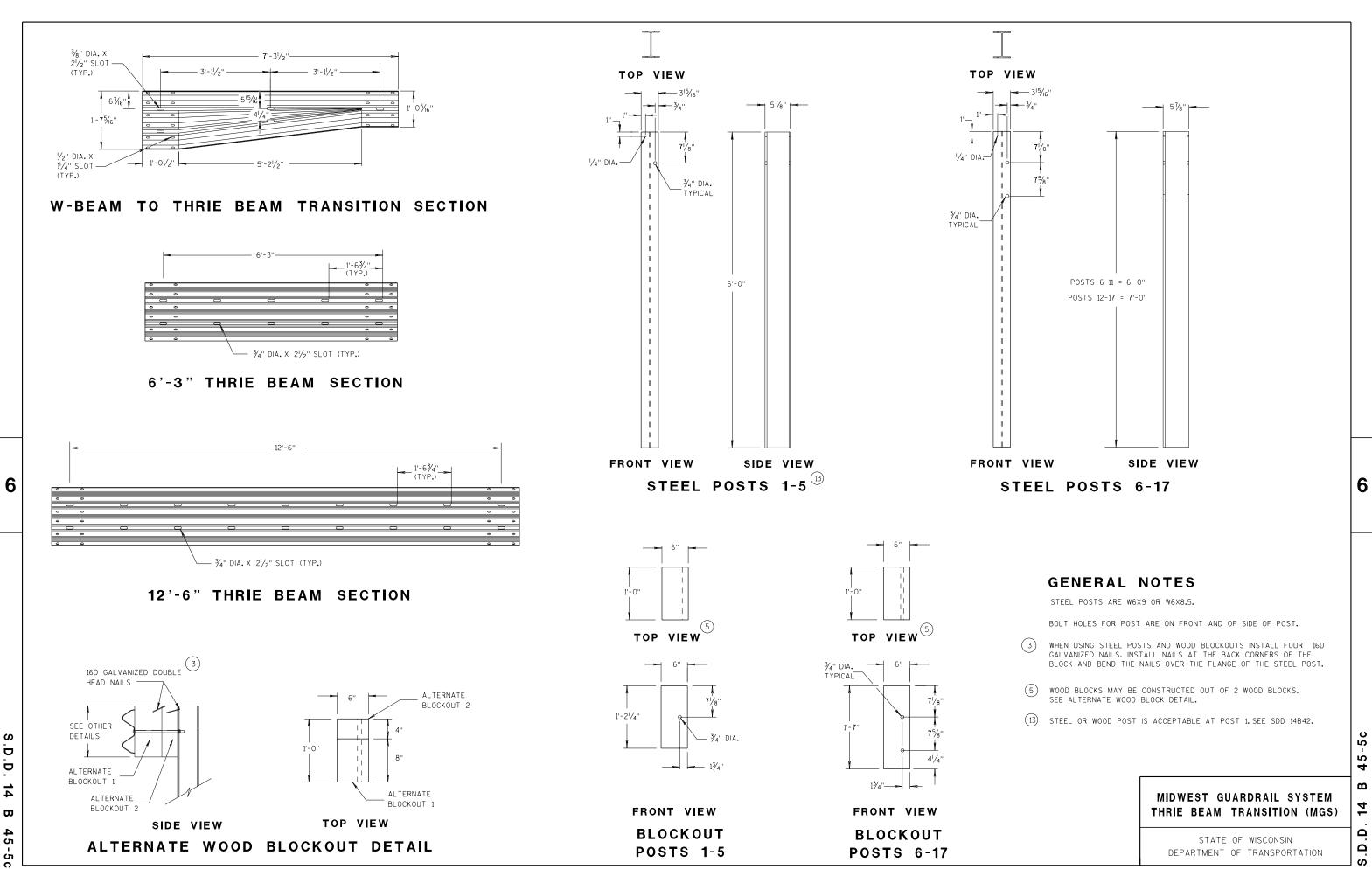
SDD 14B44

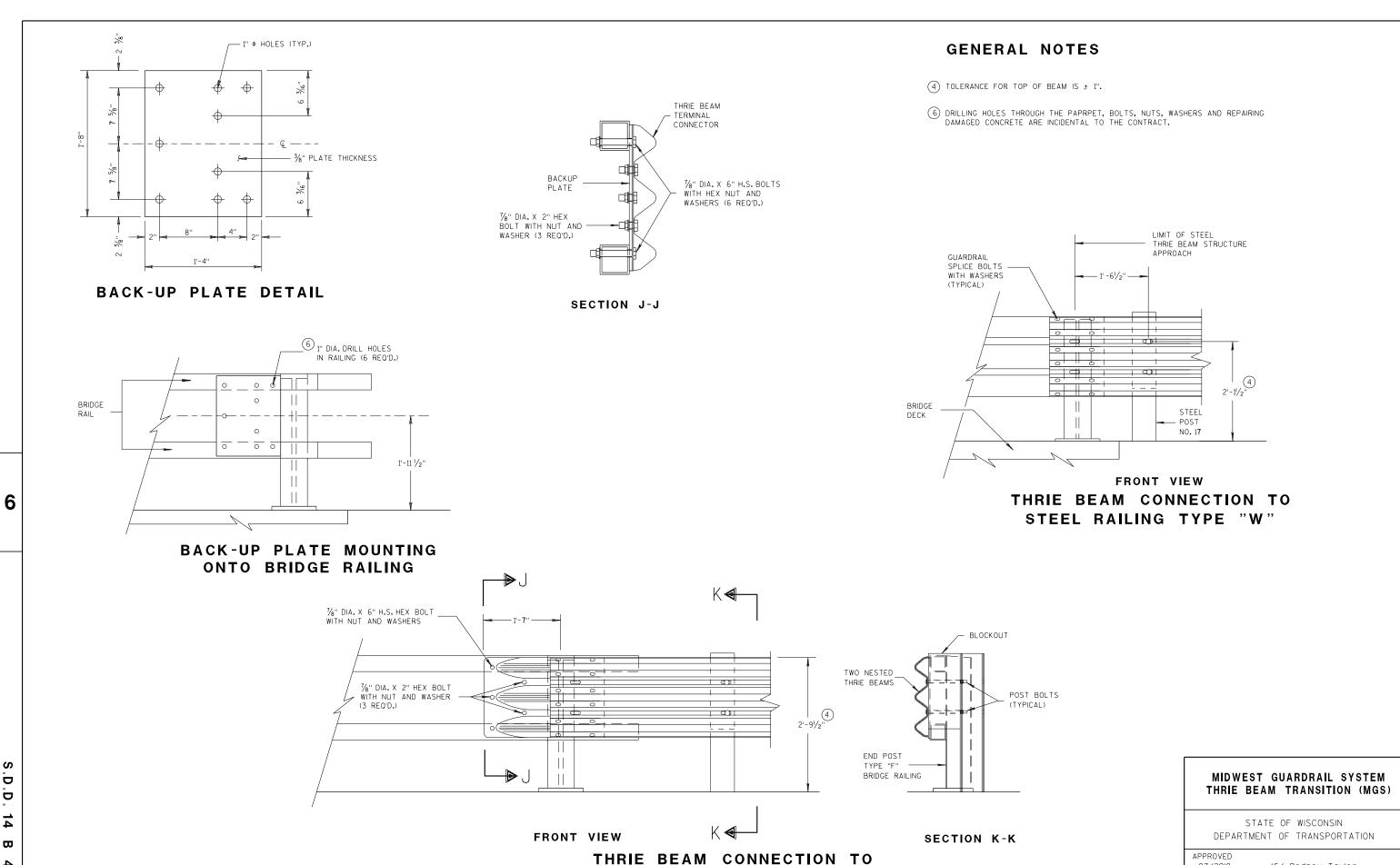
SDD 14B44 - 04











TUBULAR RAILING TYPE "F"

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07/2018

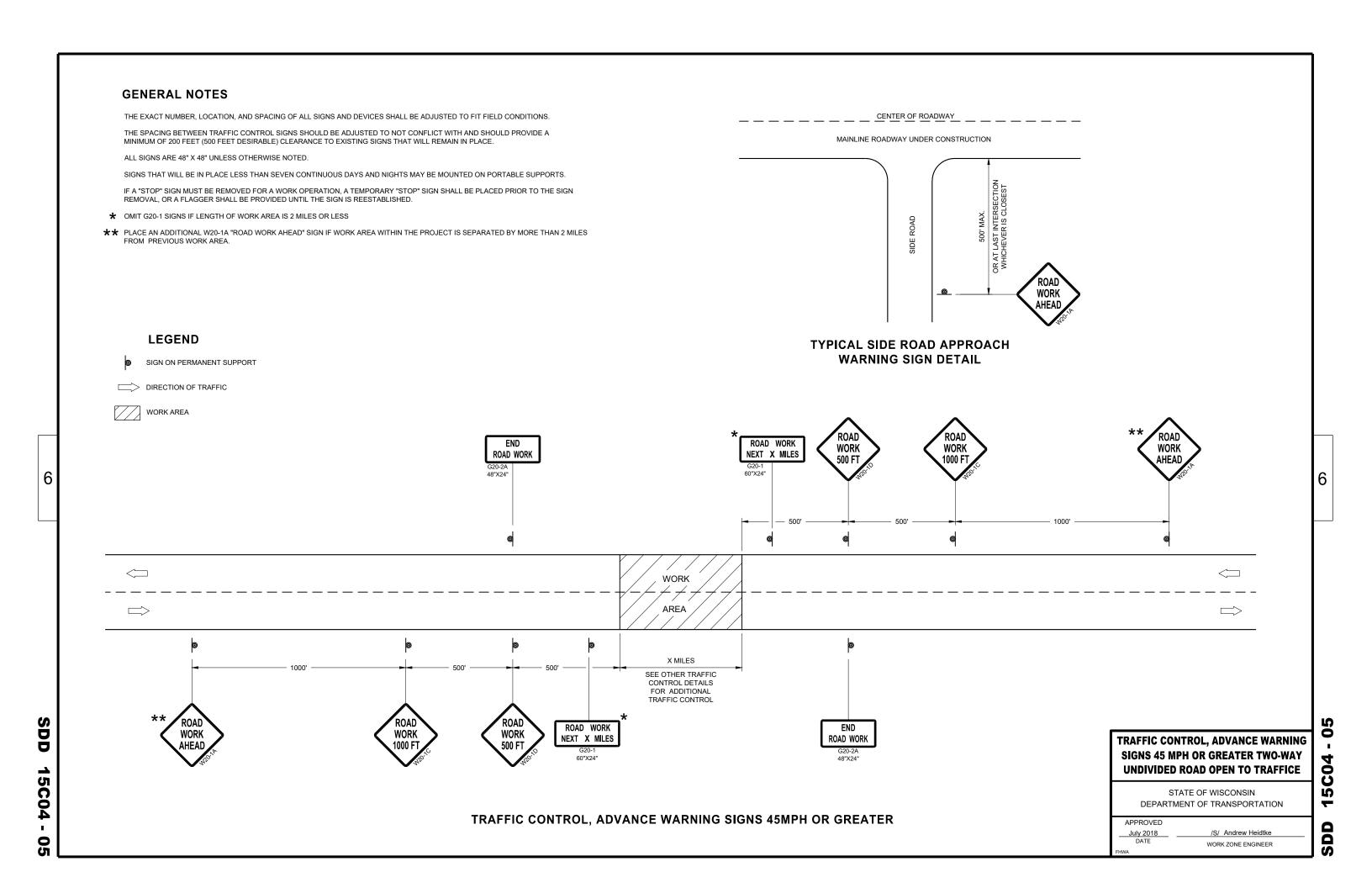
DATE

/S/ Rodney Taylor

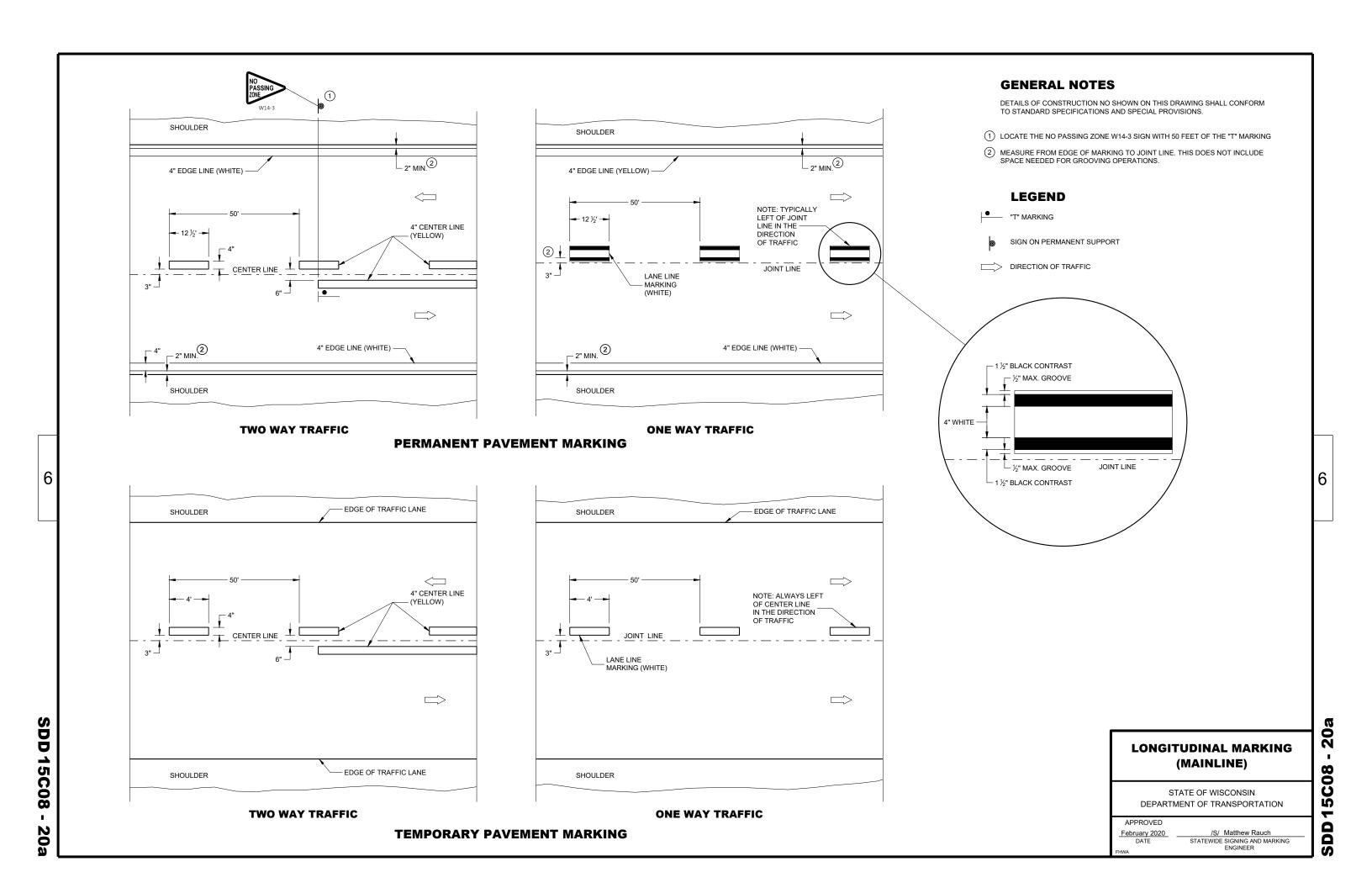
ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

6







RUMBLE

STRIPS

ROAD

WORK

GENERAL NOTES FLAGGING LEGEND FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

FLAGGING OPERATION STATE OF WISCONSIN

TRAFFIC CONTROL FOR

LANE CLOSURE WITH

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DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE WORK ZONE ENGINEER

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WORK ZONE ENGINEER

6



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF WOOD POSTS						
L	E	REQUIRED					
48" OR LESS AND LESS THAN 20 SO.FT.	-	1					
LESS THAN 60"	12"	2	٤				
60" TO 120"	L/5	2					
GREATER THAN 120" LESS THAN 168"	12"	3					
168" AND GREATER	12"	4					

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

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- 11/2" DIAMETER HOLES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

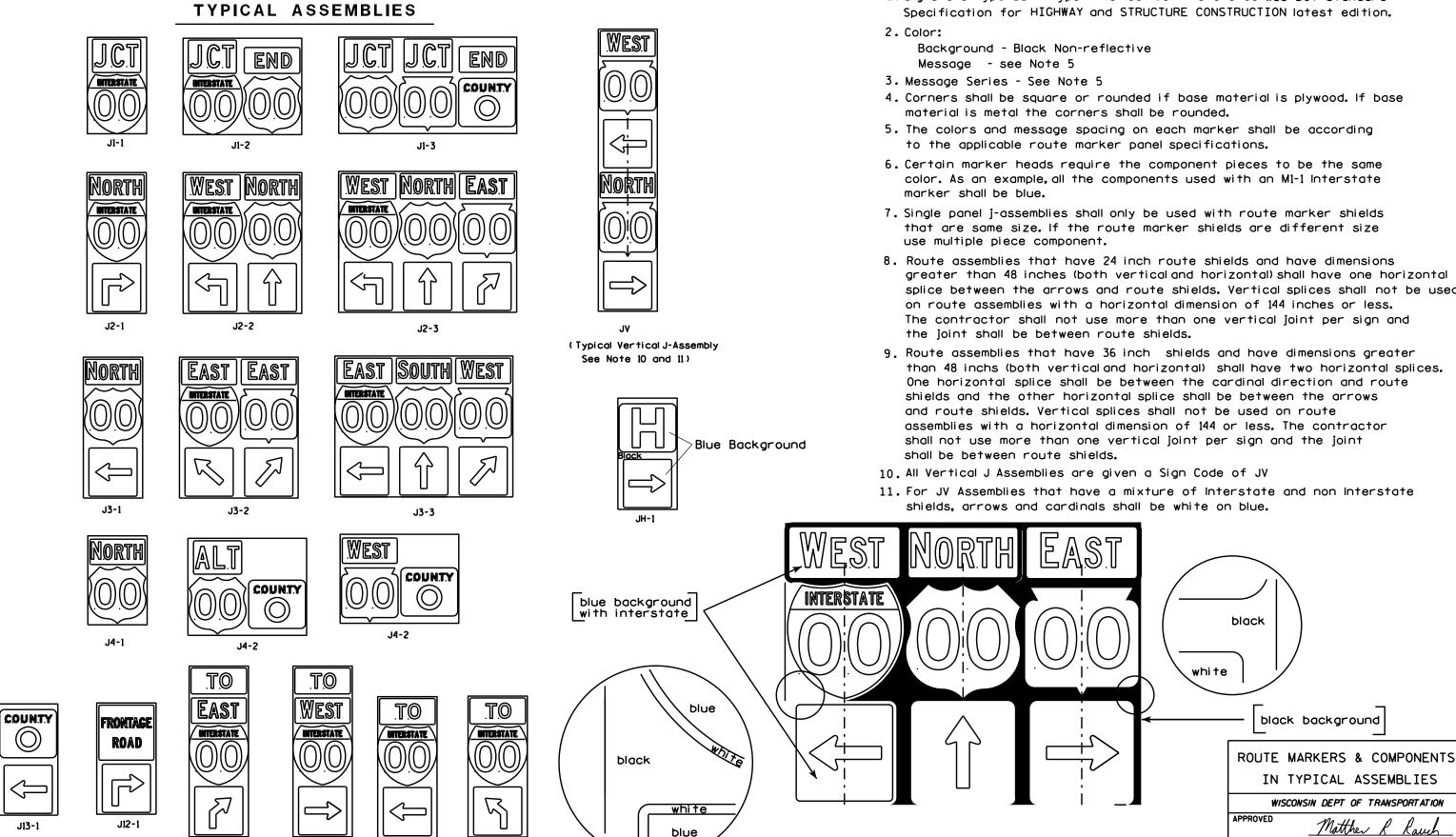
> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE

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

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



PROJECT NO:

J32-1

J22-1

J23-1

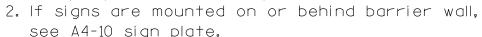
J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

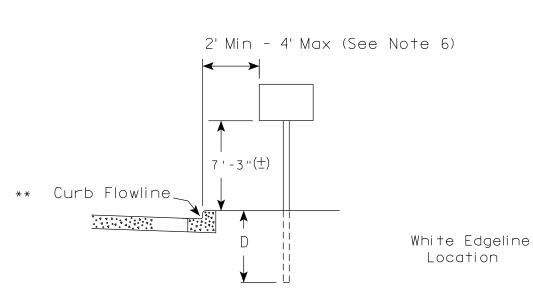
DATE 2/06/14

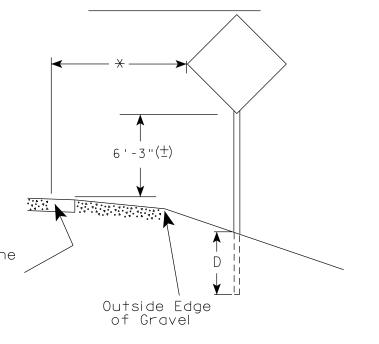
SHEET NO:



The Double Arrow sign (W12-1D) 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'' ($\frac{+}{-}$).

- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3'' (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' \stackrel{(\pm)}{-}$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (+) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.





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

5'-3"(士) White Edgeline $D \parallel$ Location Outside Edge of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 5/13/2020

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 13-MAY 2020 1:04



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 (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
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

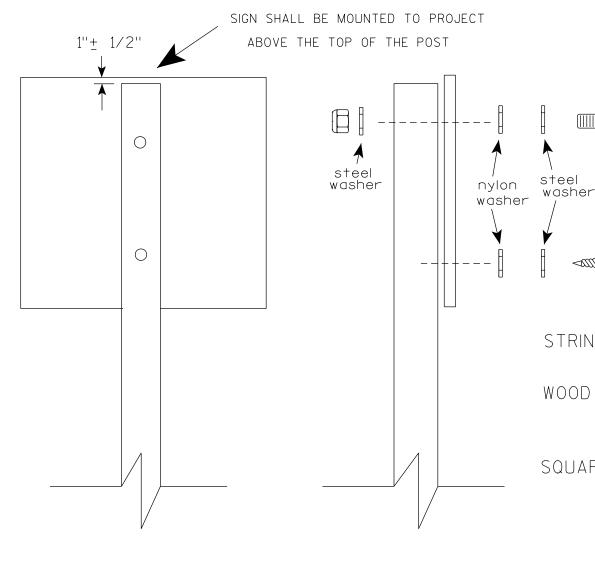
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

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

APPROVED

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

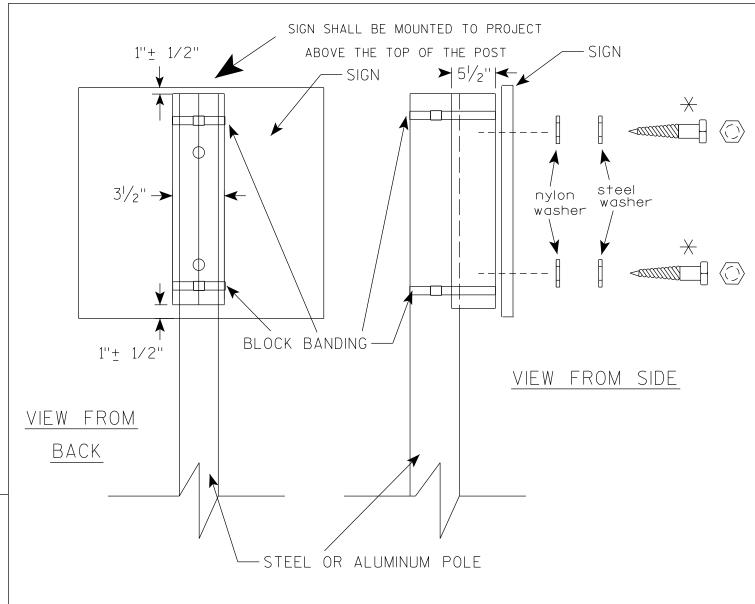
State Traffic Engineer

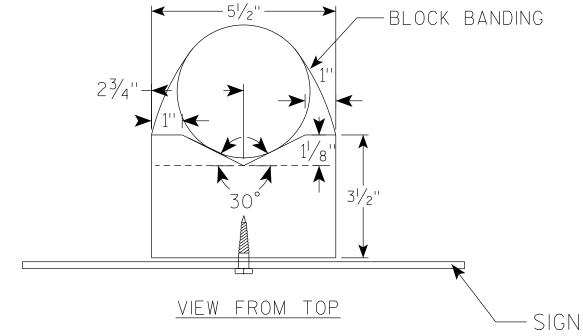
COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

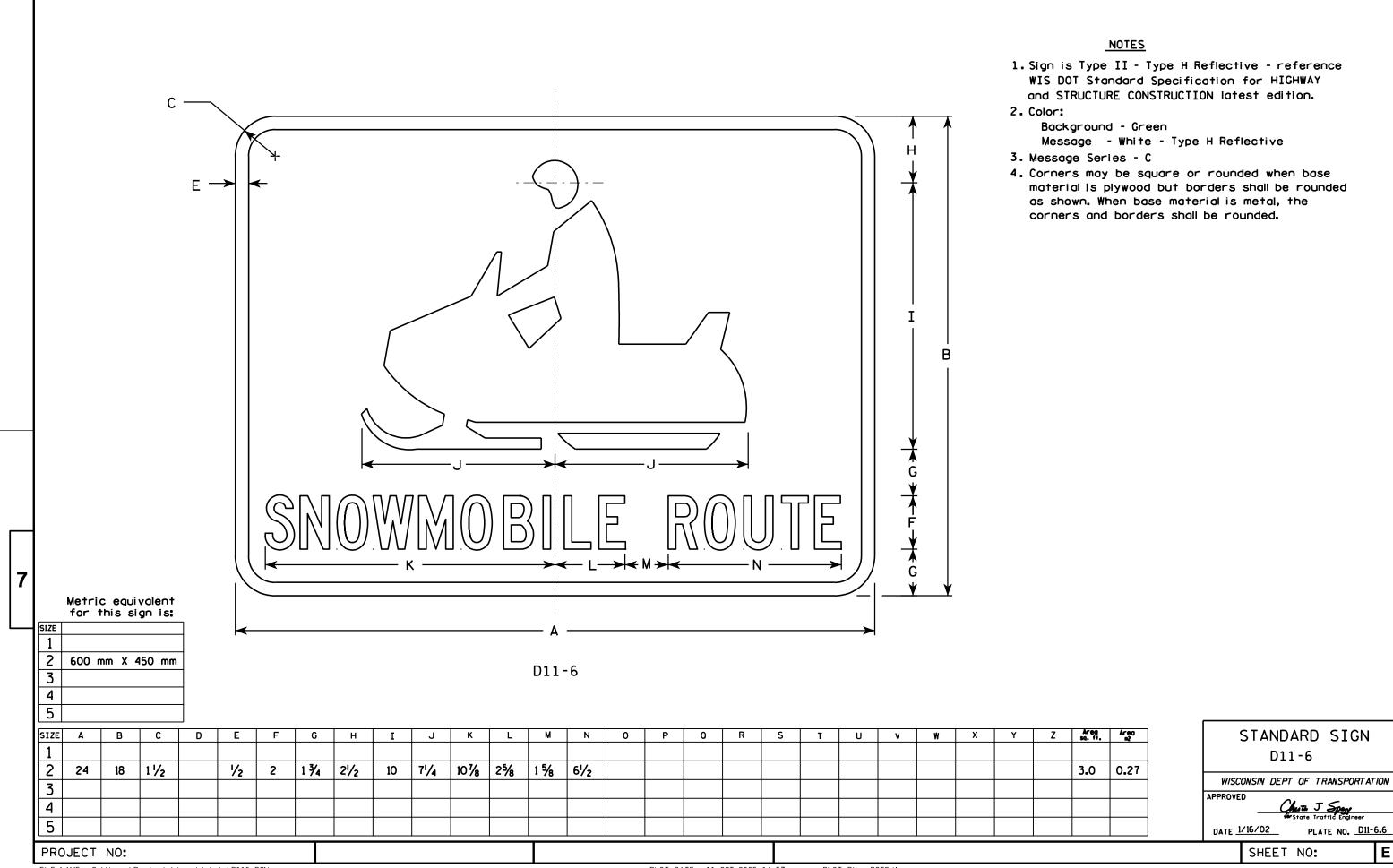
PROJECT NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY : mscj9h

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 - Green Message - White - Type H Reflective

- 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.

Ε →

Metric equivalent for this sign is:

PROJECT NO:

SIZE					
1					
2	600	mm	Χ	450	mm
3					
4					
5					

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.	Area m2
1																												
2	24	18	1 1/2		1/2	75/8	2 1/2	4 1/4	1 1/4	4	2 3/8	3	5 1/4	1 1/2	3 1/4	5 ½	5 %		6 %								3.0	. 28
3																												
4																												
5																												

STANDARD SIGN

D11-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 1/16/02

SHEET NO:

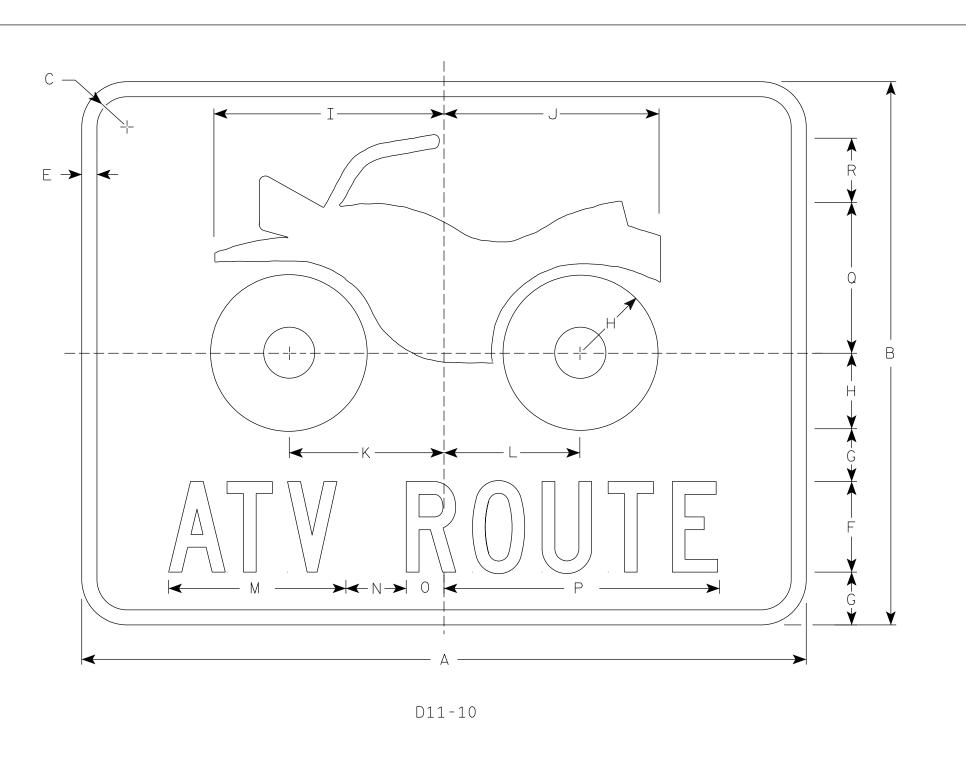
FILE NAME : C:\Users\Projects\tr_stdplate\D118.DGN

PLOT DATE: 28-SEP-2005 09:37

PLOT BY : DOTDZK

PLATE NO. D11-8.2

WISDOT/CADDS SHEET 42



NOTES

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

Background - Green Message - White

3. Message Series - C

1			T			1		1										1	T			1	1				1-00
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8		1/2	3	1 3/4	2 1/2	7 5/8	7 1/8	5 1/8	5 1/2	5 %	2	1 1/4	9 1/8	5	2 1/8									3.0
3																											
4																											
5																											

STANDARD SIGN D11-10

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer
DATE 3/25/19 PLATE NO. D11-10.5

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\D1110.DGN

PROJECT NO:

PLOT DATE: 25-MAR-2019

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

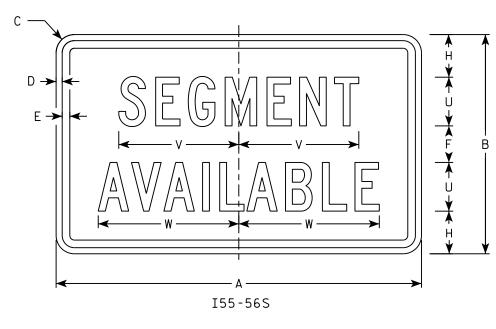
Ε



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

Background - White Message - (See Note 4)

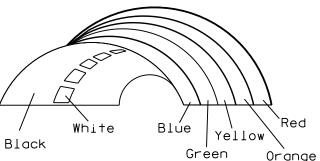
- 3. Message Series (See Note 5)
- 4. Border Blue Adopt a Highway - Red All other Text - Blue
- 5. Adopt a Highway Dutch 8011L All other Text Series C
- 6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.





I55-56P

Background Colors of Symbol*



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

IZE	Α	В	U	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z	Area sq. ft.
1																											
2 3	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 %	11 1/2				3.75
3																											
4																											
5																											

* VARIES

STANDARD SIGN I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED ______

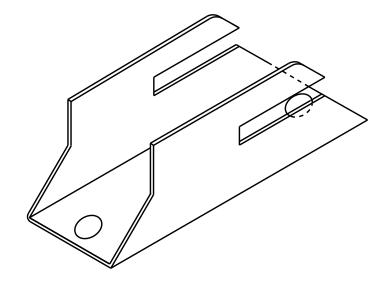
For State Traffic Engineer

DATE 2/20/18 PLATE NO. 155-56.4

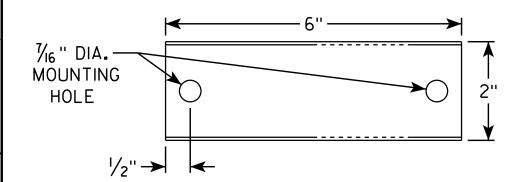
SHEET NO:

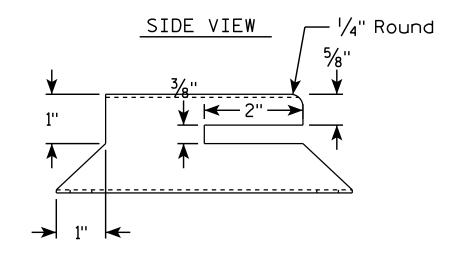
PLOT SCALE : 7.880043:1.000000

ISOMETRIC VIEW



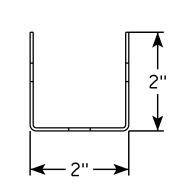
TOP VIEW





HWY:

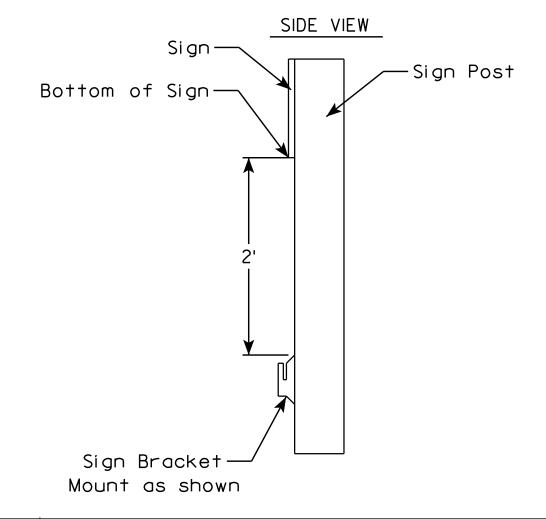
END VIEW



COUNTY:

NOTES

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



SHEET NO:

PROJECT NO:

PLOT BY : mscj9h

DATE 4/26/16

PLATE NO.155-56B.2

ROLLUP SIGN BRACKET

155-56B

WISCONSIN DEPT OF TRANSPORTATION

NOTES

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

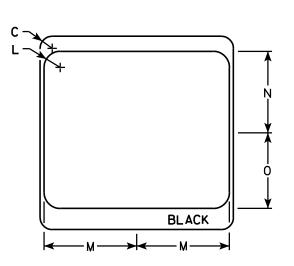
Background - White & Black - See Note 7 Message - Black

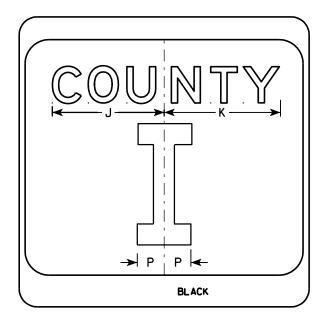
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

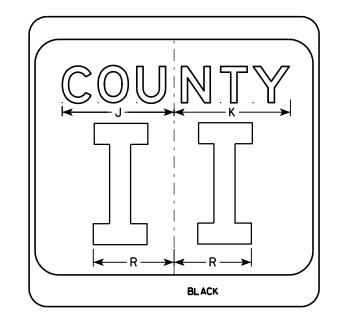
 Message Series D for 2 letters unless
 message is too big then Series C.

 Message Series C for 3 letters unless
 message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

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







PLOT NAME :

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	Areg sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
DDA	JECT	NO.					ш	WY:					COUN	ITV.													
FRU	JECI	NO.						W I .					COON														

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED

Matthew Rauch

Forstate Traffic Engineer

NATE 9/27/11 PLATE NO. M1-5A.8

DATE 9/27/11

SHEET NO:

BLACK

M1-5A

$D \rightarrow \leftarrow$

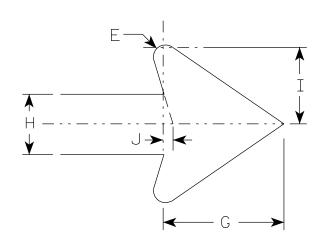
M1-88A

NOTES

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

Background - Brown Message - White - Type H Reflective

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.



Metric equivalent for this sign is:

SIZE					
1					
2	300	mm	X	300	mm
3					
4					
5					

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 sc	eo A
1																											
2	12		1 1/8				3 3/4	1 %	2 3/8	5/16																1	.0 .0
3																											
4																											
5																											

STANDARD SIGN M1-88A

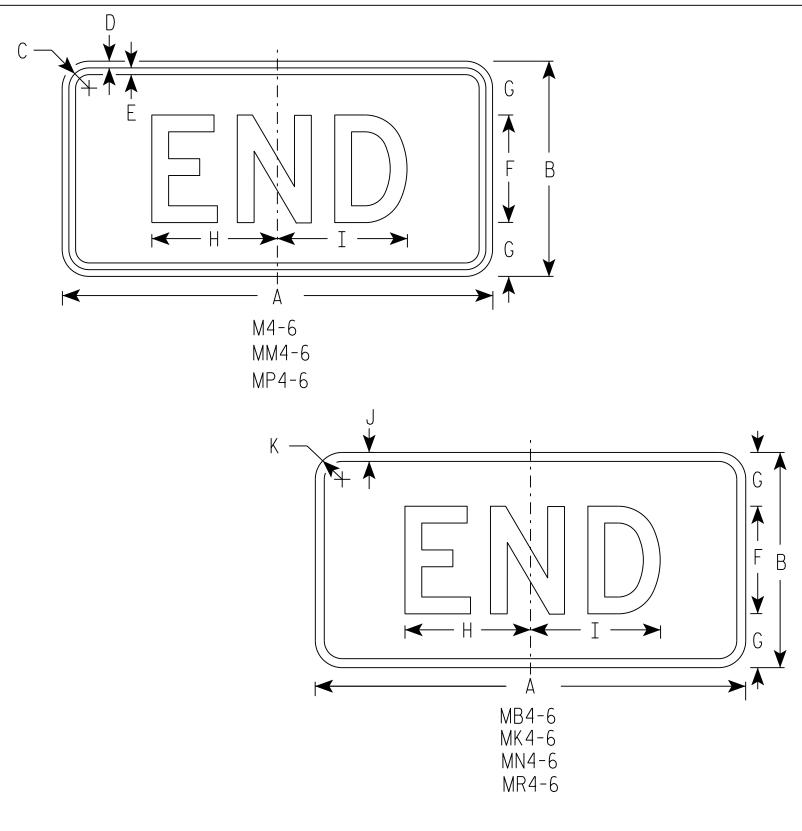
WISCONSIN DEPT OF TRANSPORTATION

DATE 1/30/02

PLATE NO. M1-88A.2

SHEET NO:

PLOT NAME :



NOTES

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

Background - See note 5 Message - See note 5

- 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. M4-6 Background White

Message - Black

MB4-6 Background - Blue

Message - White

MK4-6 Background - Green

Message - White

MM4-6 Background - White

Message - Green

MN4-6 Background - Brown

Message - White

MP4-6 Background - White

Message - Blue

MR4-6 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	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4 . 5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
PRO	JECT	NO:					Н	WY:					con	NTY:													

STANDARD SIGN M4 - 6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Kaus For State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-7.9

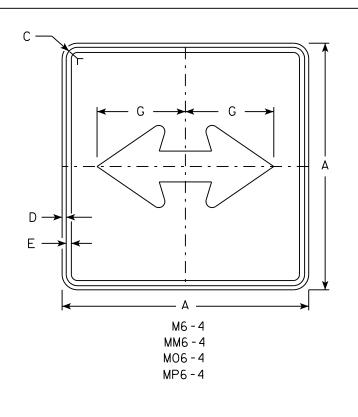
SHEET NO:

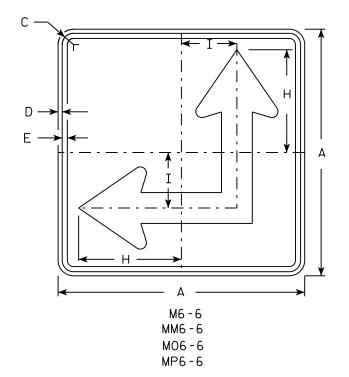
FILE NAME . C.\CAFfiles\Projects\tr stdolate\M46 DCN

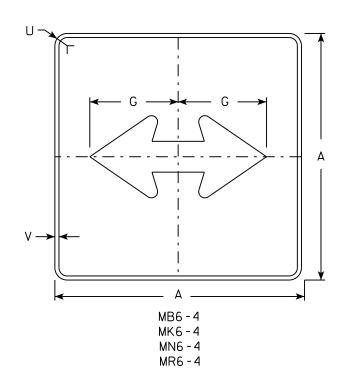
PLOT DATE . 01-DEC-2015 17.55

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

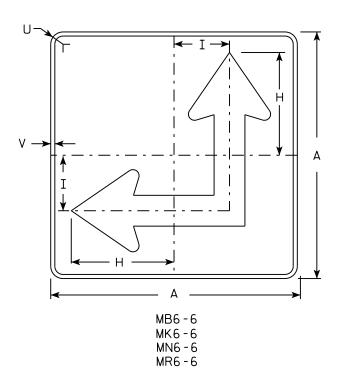
PLOT SCALE . 5 351066.1 000000







HWY:



NOTES

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

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

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

Message - Black

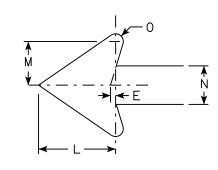
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

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



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

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

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

PLOT SCALE . 11 675051.1 000000

PROJECT NO:



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

Background - Red Message - White

3. Message Series - C

*								— А — ;											A	
									H			- G -							F	A
		E						 	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. _____R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

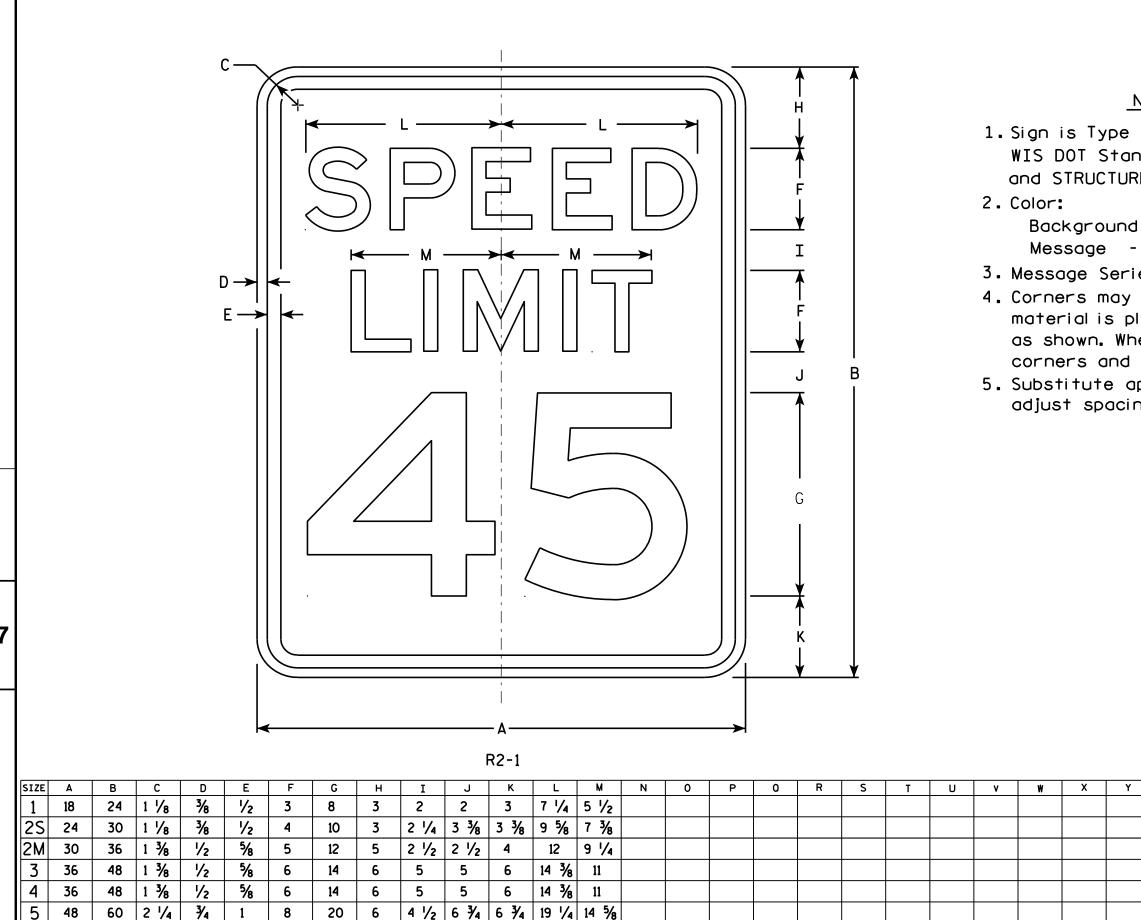
HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

PLOT SCALE: 4.427909:1.000000



COUNTY:

NOTES

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

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 DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

PROJECT NO:

HWY:

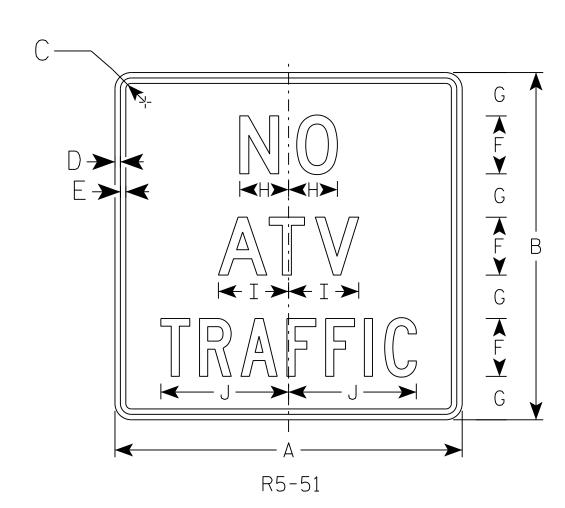
PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 4.717577:1.000000

- 1. Sign is Type II Type H Reflective
- 2. Color: Background White
 - Message Black
- 3. Message Series Line 1 and 2 Series D Line 3 Series C



1																											
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	24	24	1 1/8	3/8	3/8	4	3	3 3/8	4 1/8	8 1/8																	4.0
2M	24	24	1 1/8	3/8	3/8	4	3	3 %	4 1/8	8 1/8																	4.0
3																											
4																											
5																											
PRO)JECT	NO:	•	•	•			HWY:						COUN	TY:									•			

STANDARD SIGN R5-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe

For State Traffic Engineer

DATE 5/16/18 PLATE NO. R5-51.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R551.DGN

PLOT DATE: 16-MAY-2018 11:41

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

PLOT SCALE: 6.633124:1.000000

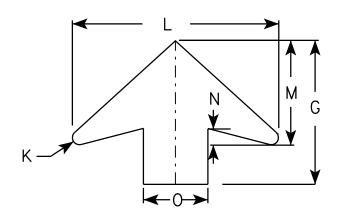
00 S3-1

NOTES

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

Background - YELLOW-GREEN Message - BLACK except as noted Circles except PEDS- RED BACKGROUND

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.



A DDOW	
ARROW	DETAIL

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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 ½	1/2	16	8	1 1/4	5	1 1/2		6 %	5 %	10 %							6.25
2	36		1 %	5/8	3/4	7 1/2	13 ½	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 %	6	1 1/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 1/8	20 1/8	8 %	8 ¾	7 ⁄8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 1/8	20 1/8	8 3/8	8 3/4	7/8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE <u>6/8/10</u>

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S31.DGN

PROJECT NO:

PLOT DATE: 08-JUN-2010 15:30

PLOT BY: ditjph

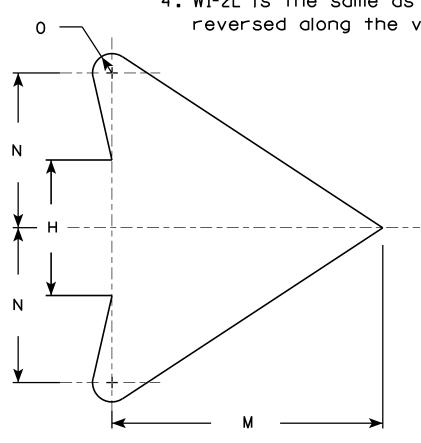
WISDOT/CADDS SHEET 42

PLATE NO. <u>\$3-1.6</u>

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

Background - Yellow Message - Black

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



ARROW	DETAIL

								W:	1-2R															<u> </u>	<u>-</u>		
SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	v	W	х	Y	Z	Areo sq. ft.
1	24		1 1/8	3⁄8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 1/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	₹4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

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

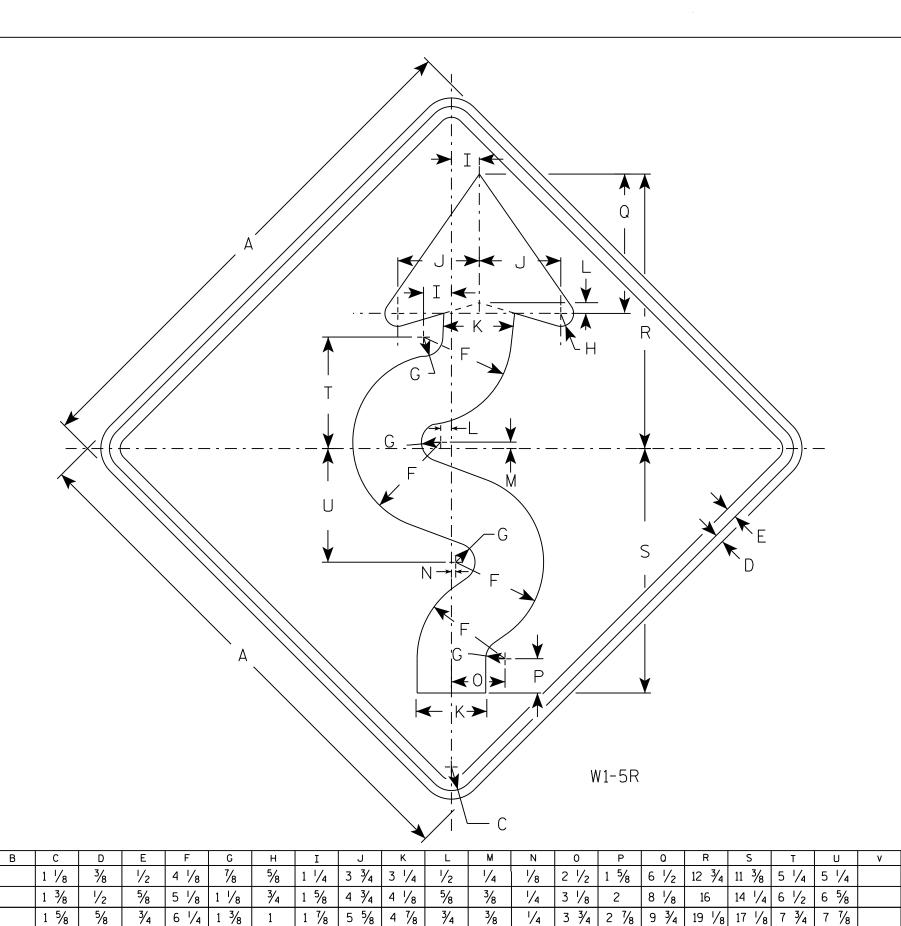
PLATE NO. <u>W1-2.10</u>

SHEET NO:

PROJECT NO:

← H →

HWY:



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

Background - Yellow Message - Black

- 3. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.
- 4. If used with W13-1 of 30 MPH or less, use 36" sign for Size 2S.

4.0

6.25

9.0

9.0

9.0

16.0

W1 - 5

WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

APPROVED

DATE <u>8/1/16</u>

PLATE NO. <u>W1-5.9</u>

PROJECT NO: FILE NAME . C.\CAFfiles\Projects\tr stdolote\W15 DCN

1 %

2 1/4

3/4

6 1/4

6 1/4

8 1/4

1 3/8

1 3/4

1 1/4

HWY:

5 %

5 %

2 1/2 7 1/2 6 1/2

4 1/8

3/4

SIZE A

24

30

36

36

36

48

COUNTY:

3 3/4

3 3/4

2 1/8

2 1/8

3/8

1/2

PLOT DATE . 01-410-2016 09:34

| 19 1/8 | 17 1/8 | 7 3/4 | 7 3/8

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

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

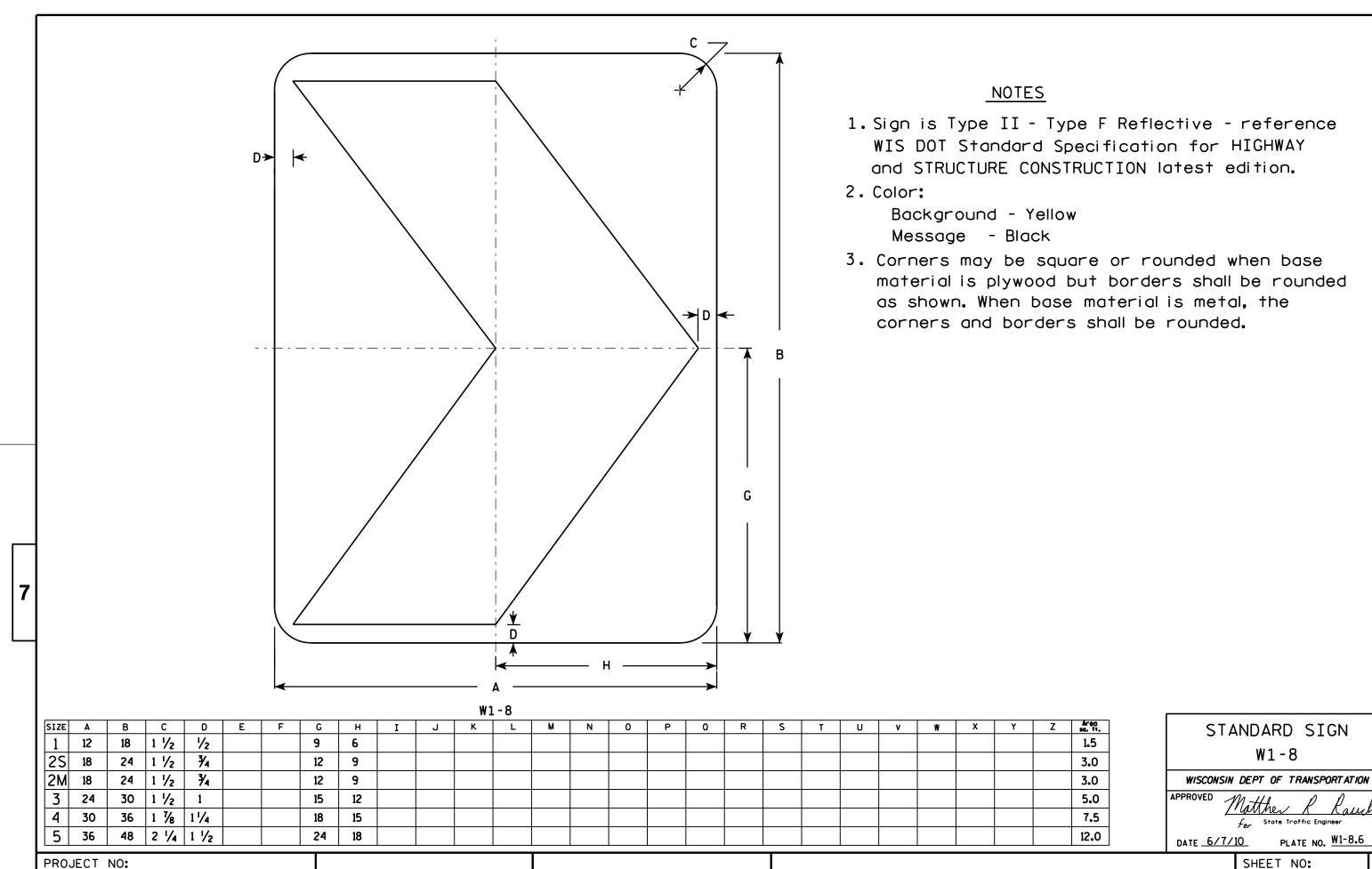
9 3/4

9 3/4

PINT RY . \$\$ DIOTUSER \$\$ PINT NAMF :

PLOT SCALE . 5 594294.1 000000

SHEET NO:



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W18.DGN

PLOT DATE: 07-JUN-2010 12:55 PLOT BY : ditjph PLATE NO. W1-8.6

W1 - 8

For State Traffic Engineer

SHEET NO:

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

Background - Yellow Message - Black

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

A G H H D E D D W2-2

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areo sq. fi.
1	24		1 1/8	3∕8	1/2	20	2	4	10	8																	4.0
25	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 %	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

COUNTY:

STANDARD SIGN W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch For State Traffic Engineer

DATE 5/29/12

PLATE NO. <u>W2-2.6</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W22.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:18

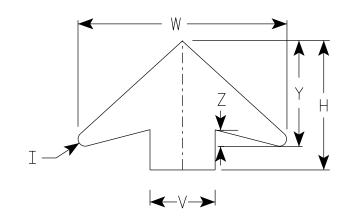
PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 6.202372:1.000000

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

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



ARROW DETAIL

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft
1																											
25	36		1	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3 - 5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 7/27/2020 PLATE NO. W3-5.6

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W35.DGN

PLOT DATE: 27-JULY-2020 2:33

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

PROJECT NO:

W3 - 5

* White Background

Black Border White Margin

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

2. Color:

Background - Yellow Message - Black

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

		A			E			
			γ W1	1-6				
С	D E F	С Н Т	I .I K	L M N	0 P	0 R	S T	1 11

SIZE A 3/8 9 1/2 4 1/2 10 1/4 1 1/8 24 4.0 25 11 1/2 5 5/8 12 3/4 1 3/8 1/2 5/8 6.25 30 2M 1 3/8 1/2 11 1/2 5 5/8 12 3/4 30 6.25 3 1 1/8 5/8 3/4 14 1/8 6 3/4 15 1/4 9.0 36 4 3/4 48 2 1/4 19 9 20 1/2 16.0 5

COUNTY:

STANDARD SIGN W11-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Rauch ∱er State Traffic Engineer DATE 3/13/13 PLATE NO. W11-6.8

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W116.DGN

HWY:

PROJECT NO:

PLOT DATE: 13-MAR-2013 12:57

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE : 5.954276:1.000000

WISDOT/CADDS SHEET 42

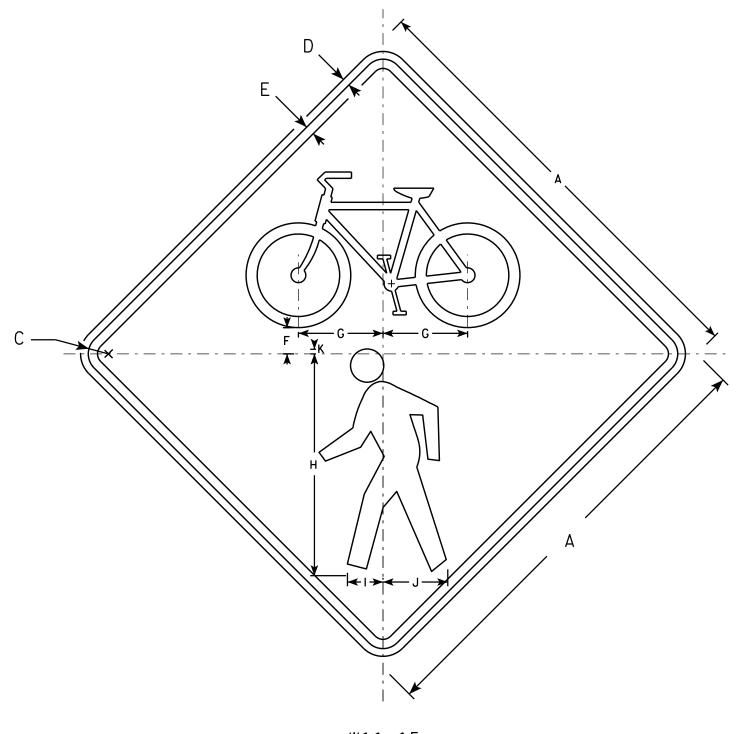
Ε

<u>NOTES</u>

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

Background - Yellow Message - Black

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



W11-15

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	J	٧	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	1 3/8	4 %	12	1 1/8	3 1/2	1/4																4.0
2S	30		1 3/8	1/2	5/8	1 3/4	5 3/4	15	2 3/8	4 3/8	3/8																6.25
2M	36		1 %	5/8	3/4	2 1/8	6 %	18	2 1/8	5 1/4	3/8																9.0
3	36		1 %	5/8	3/4	2 1/8	6 %	18	2 1/8	5 1/4	3/8																16.0
4	48		2 1/4	3/4	1	2 1/8	9 1/8	24	3 %	7	1/2																16.0
5																											

COUNTY:

STANDARD SIGN W11-15

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

D Matthew R Rawh

Law State Traffic Engineer

DATE <u>2/13/14</u>

PLATE NO. W11-15.4
SHEET NO:

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W1115.DGN

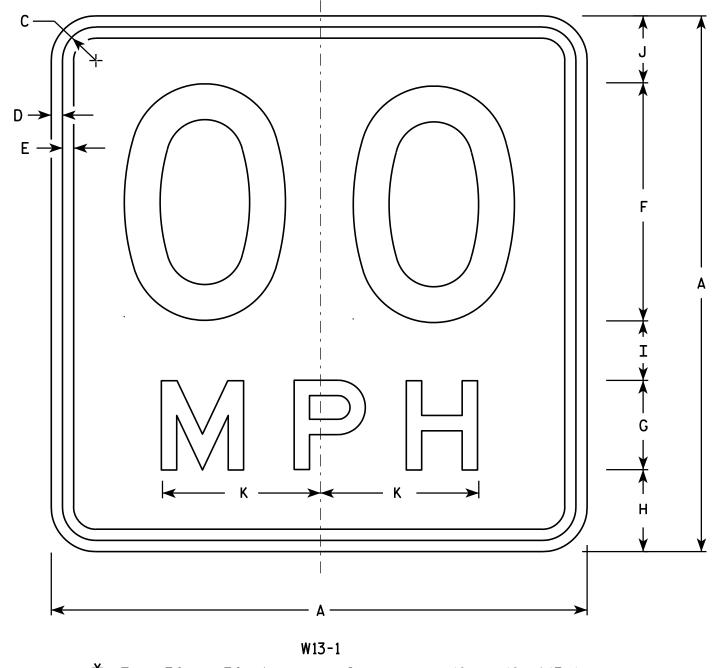
HWY:

PLOT DATE: 13-FEB-2014 10:54

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 7.783368:1.000000



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

Background - Yellow Message - Black

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

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

SIZE	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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 %	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew N

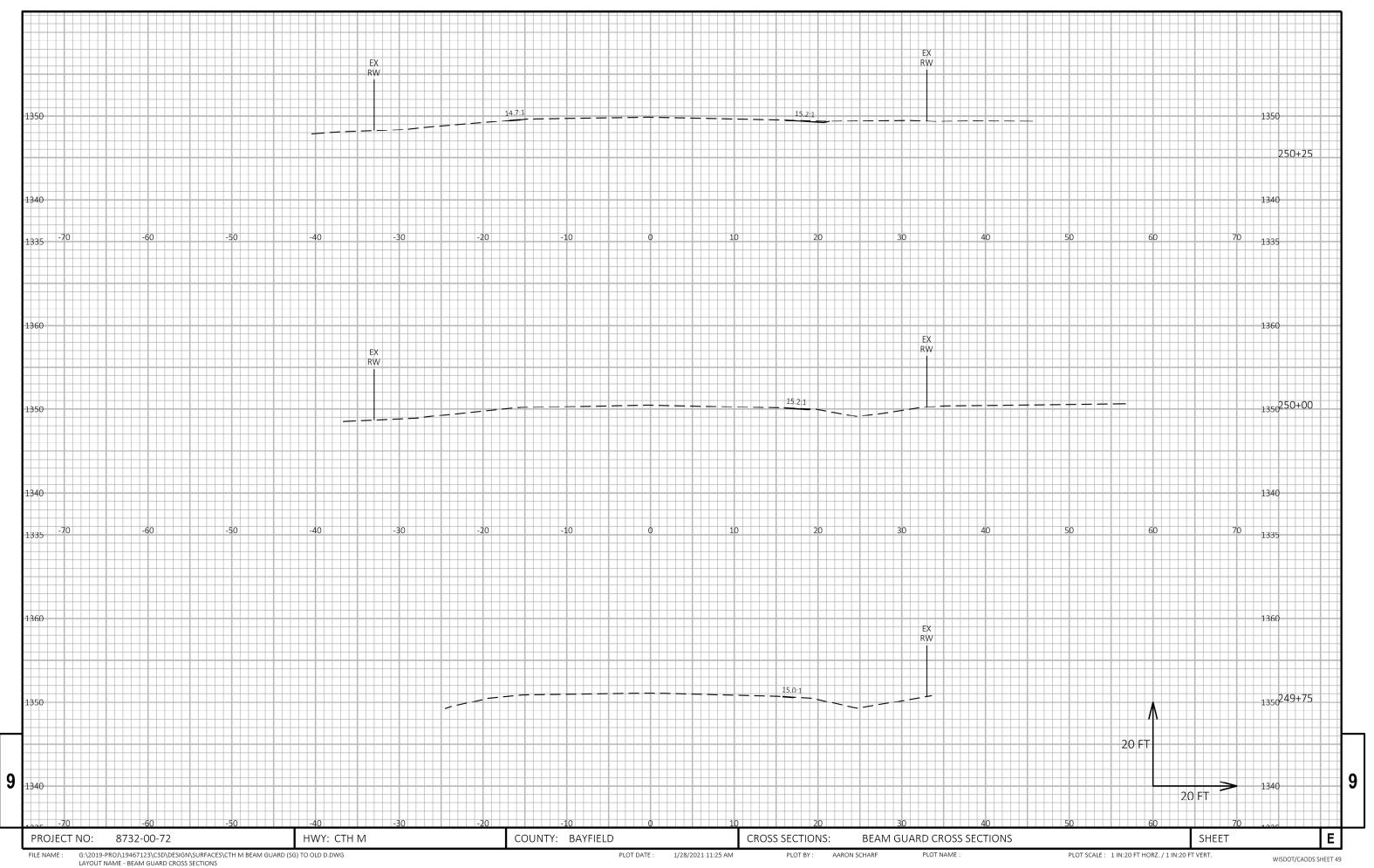
For State Traffic Engineer

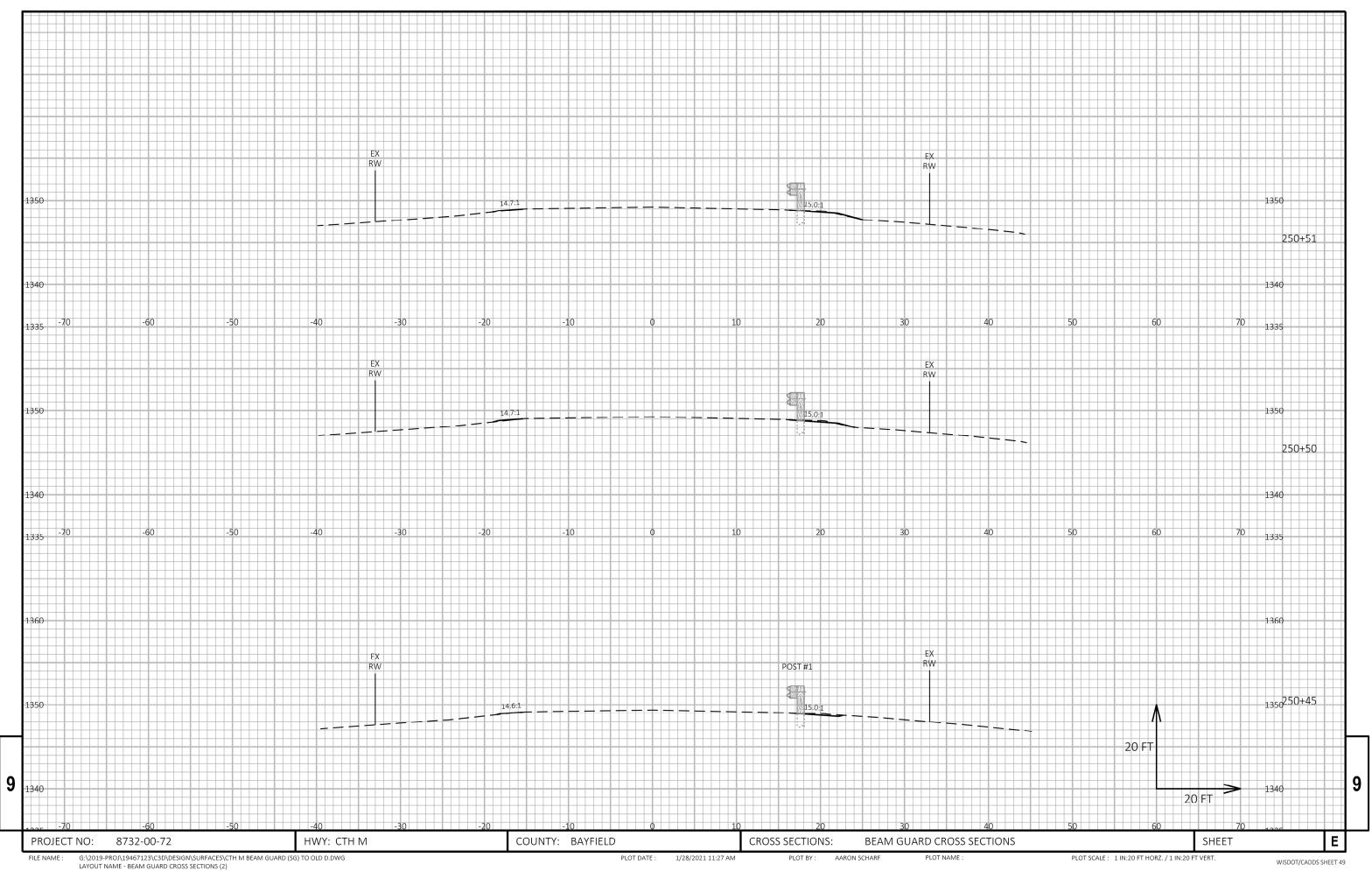
DATE 5/31/12 PLATE NO. W13-1.16

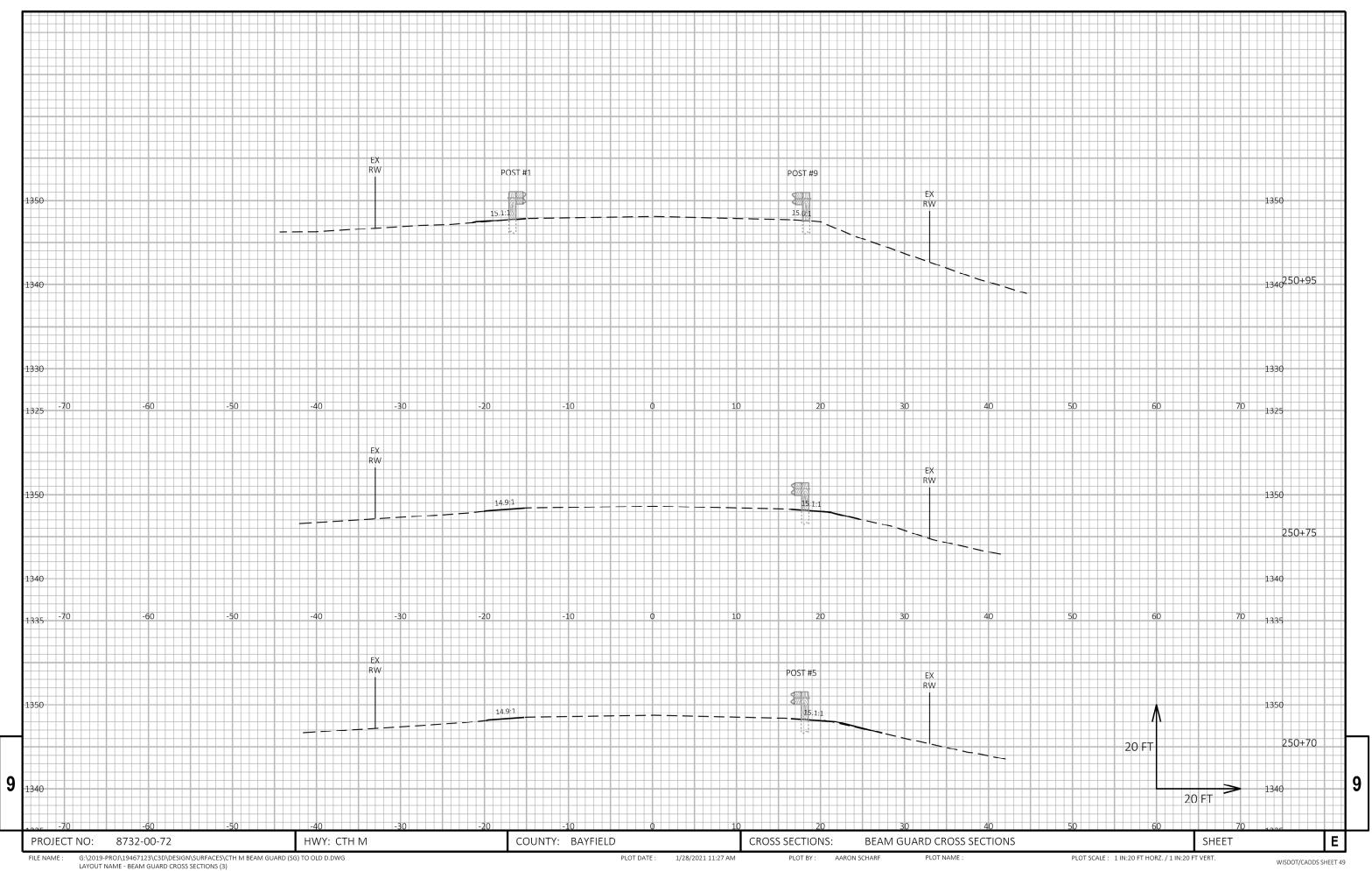
SHEET NO:

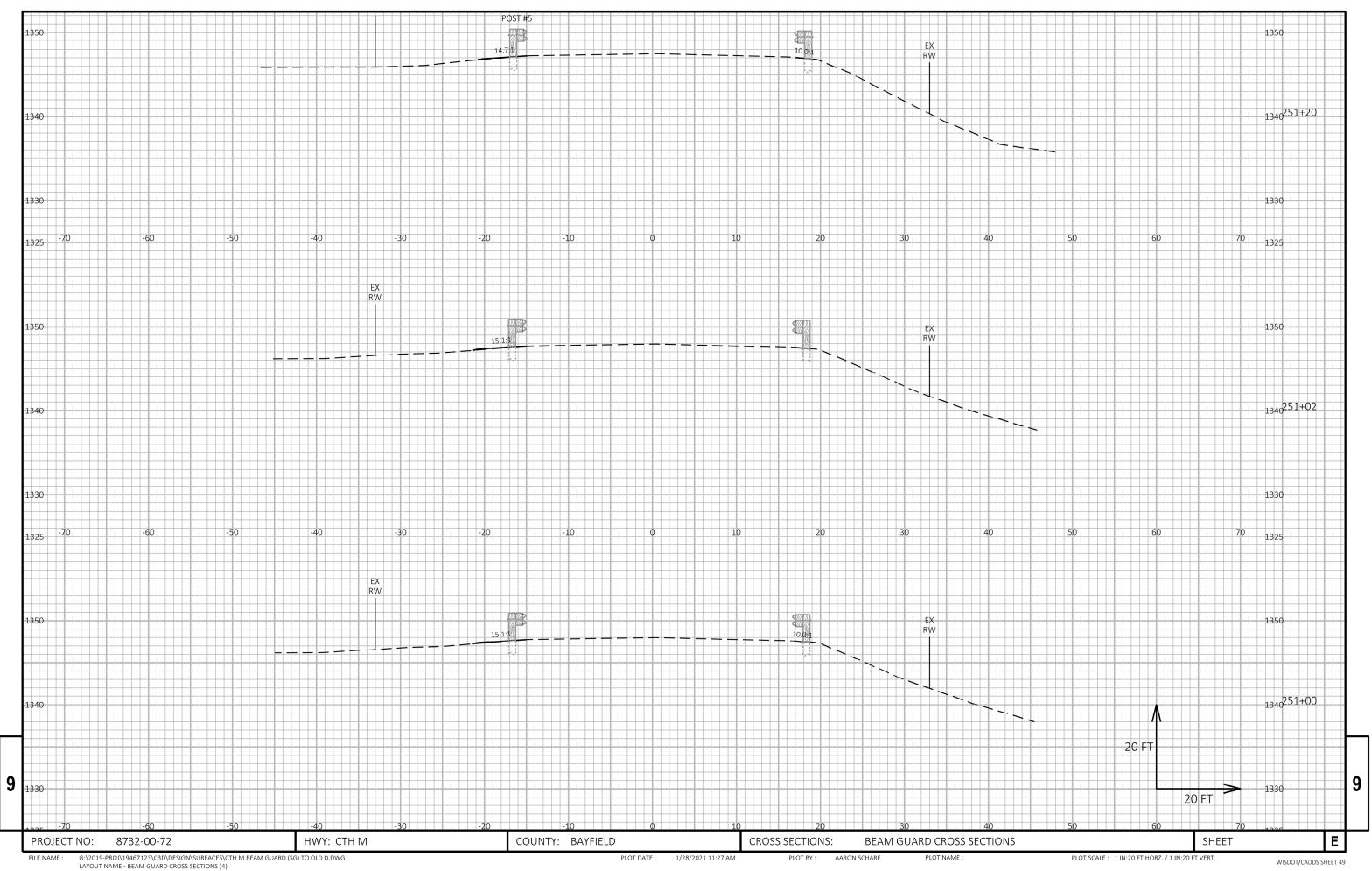
PLOT BY: mscsja

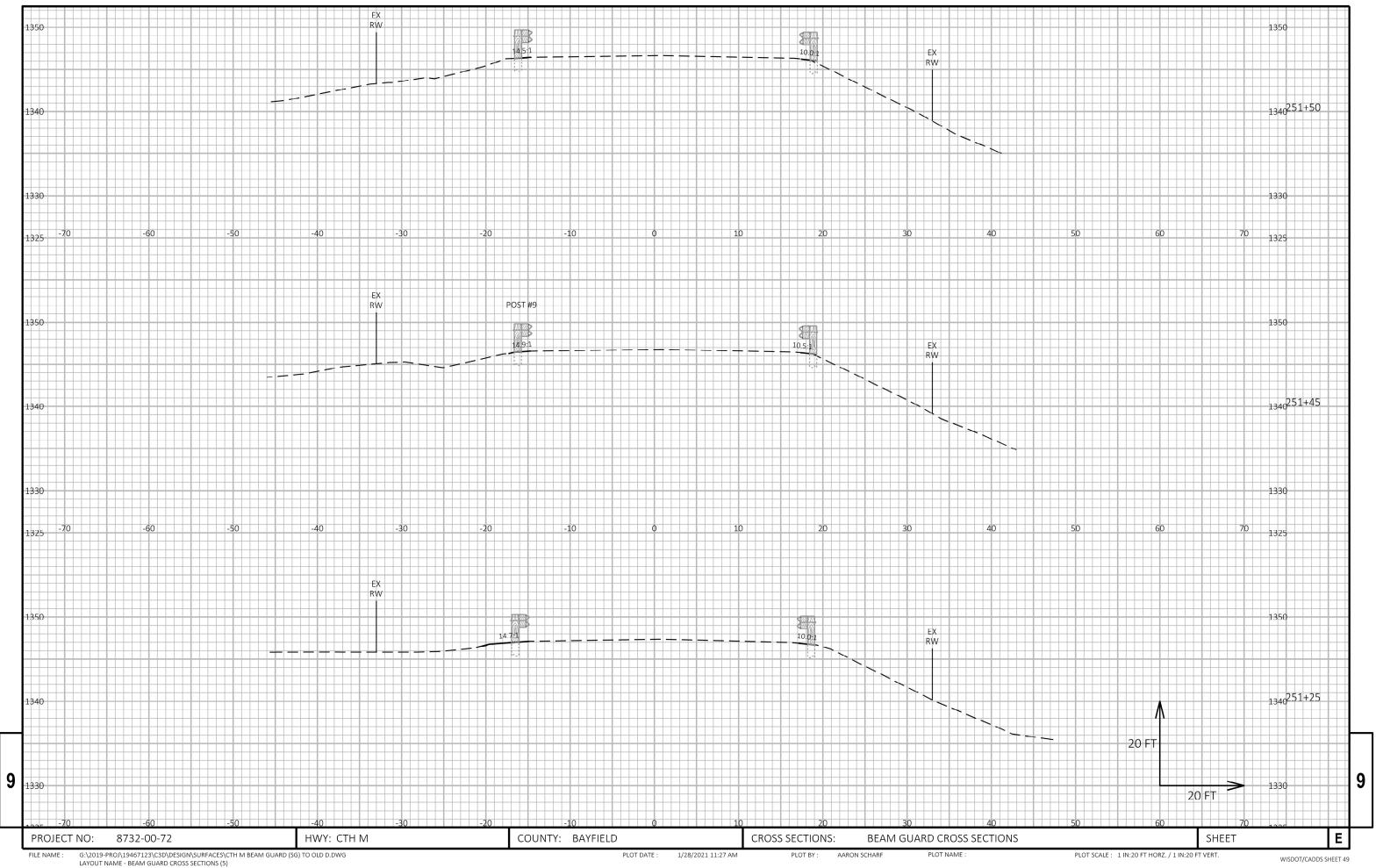
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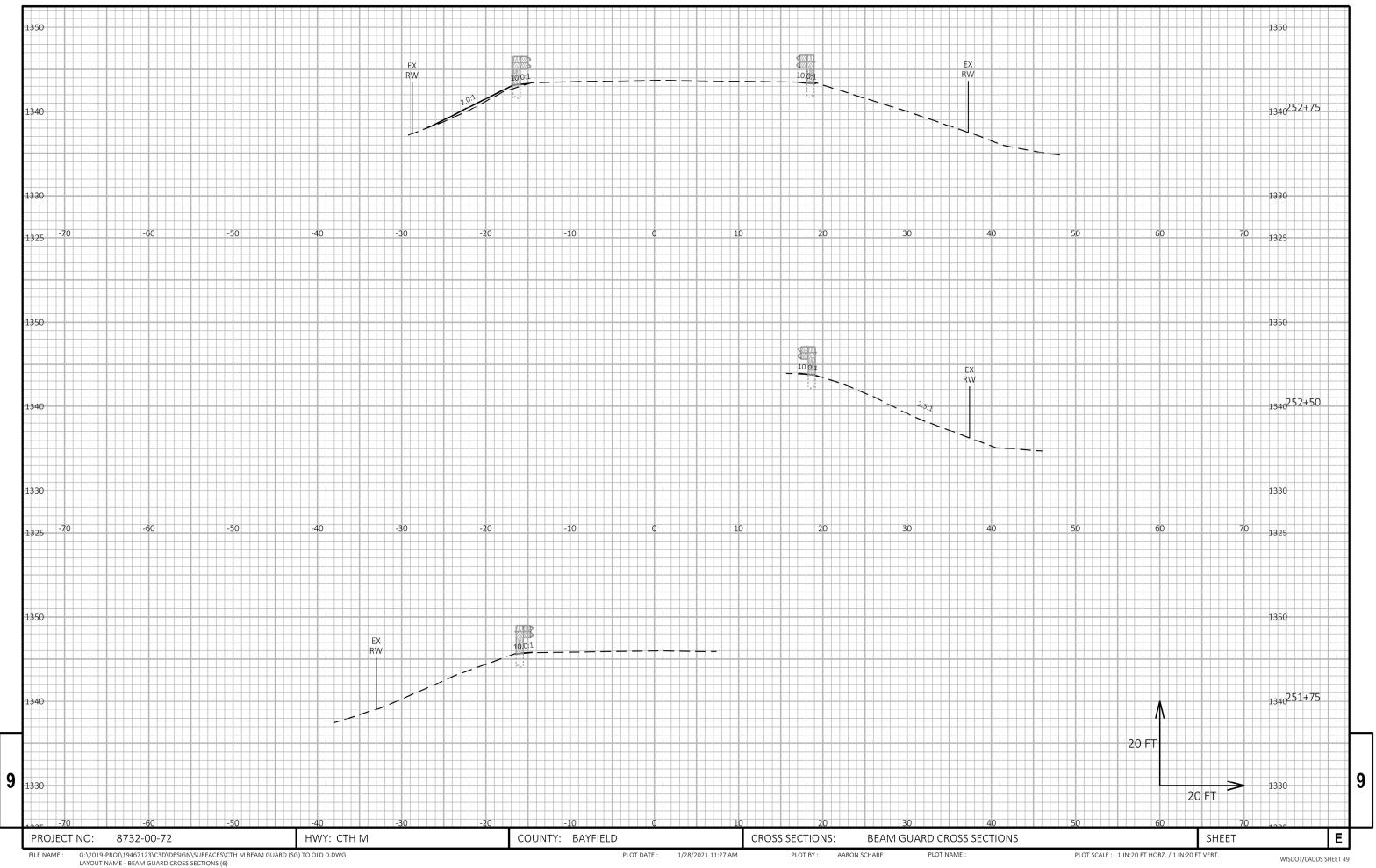


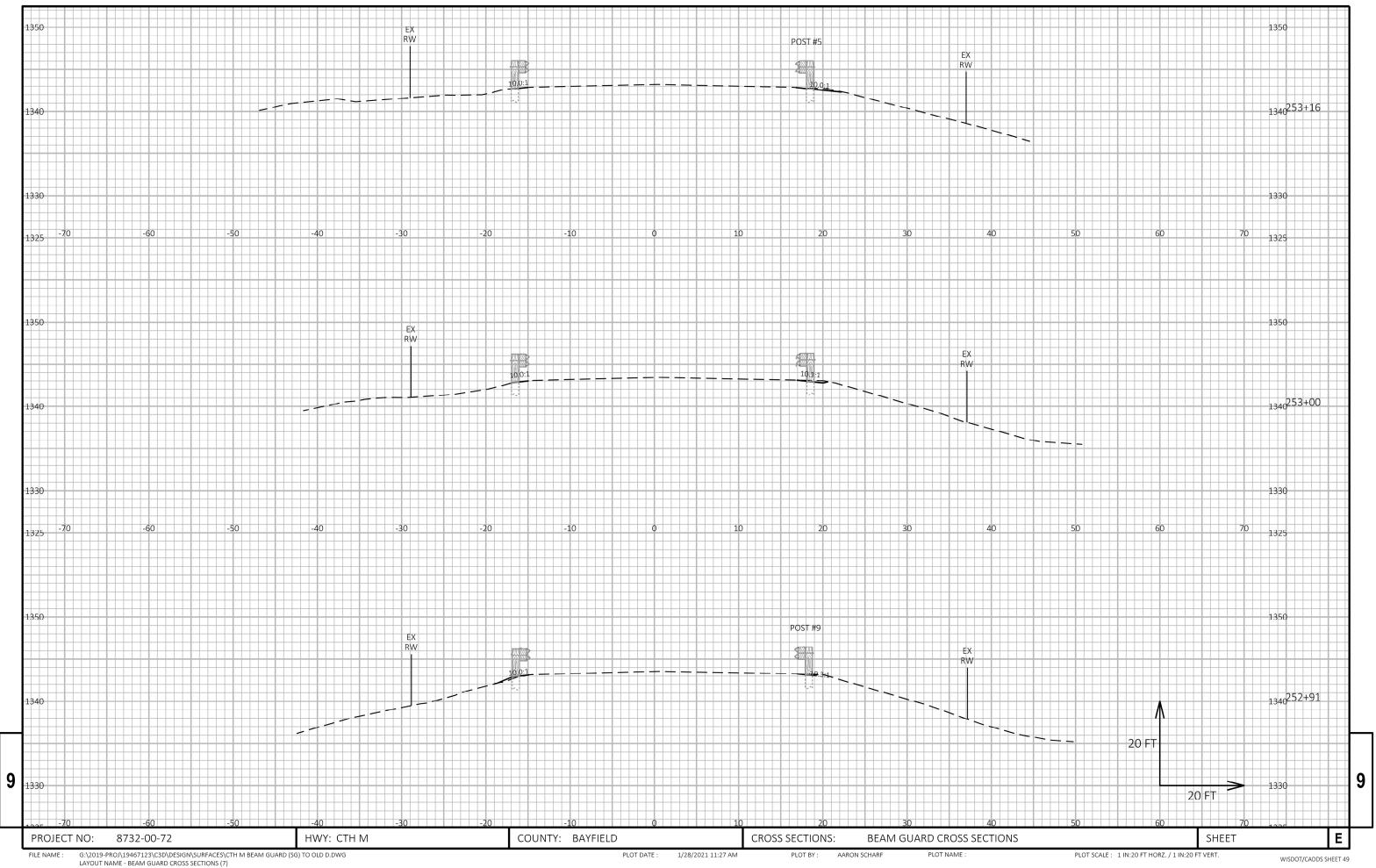


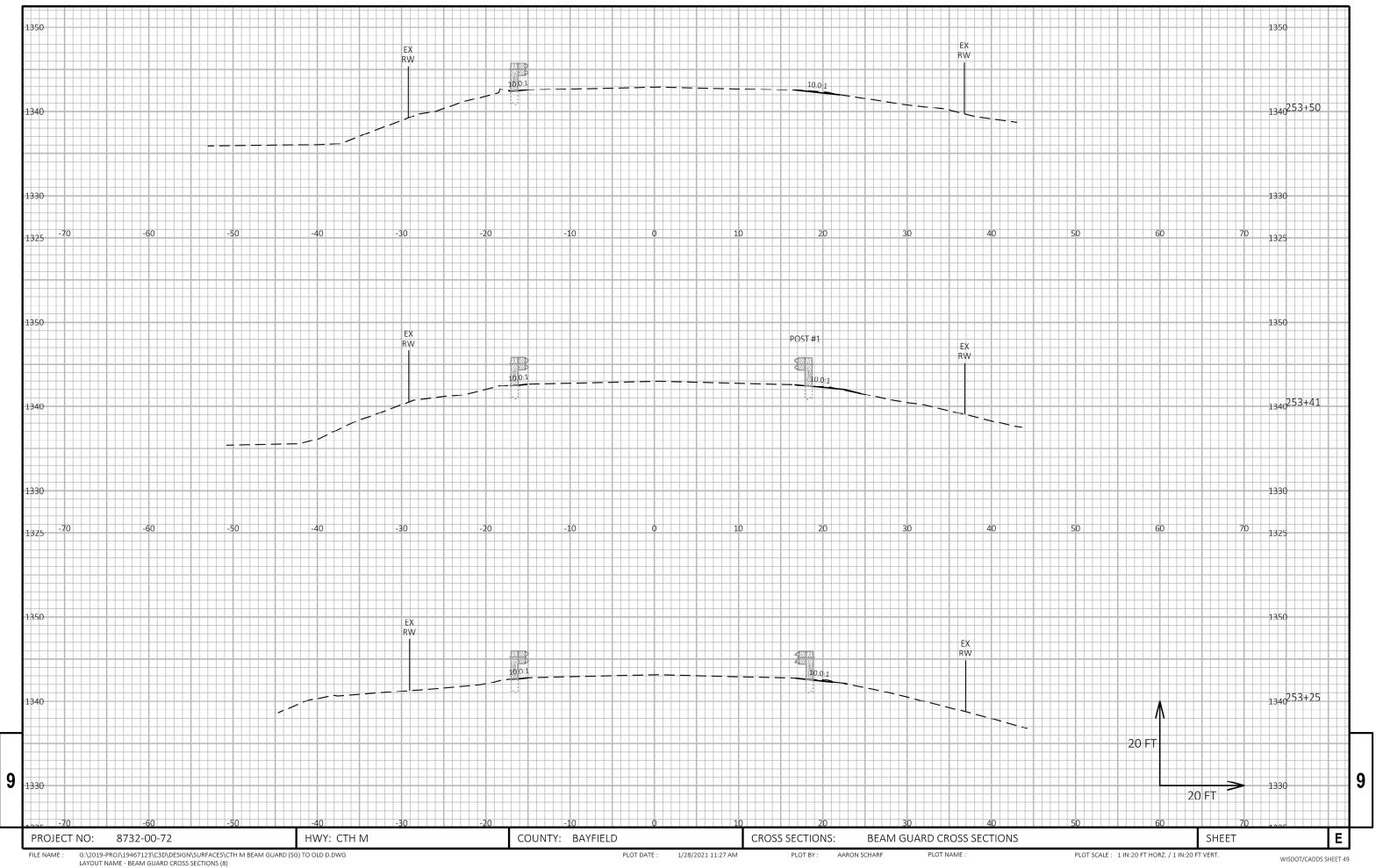


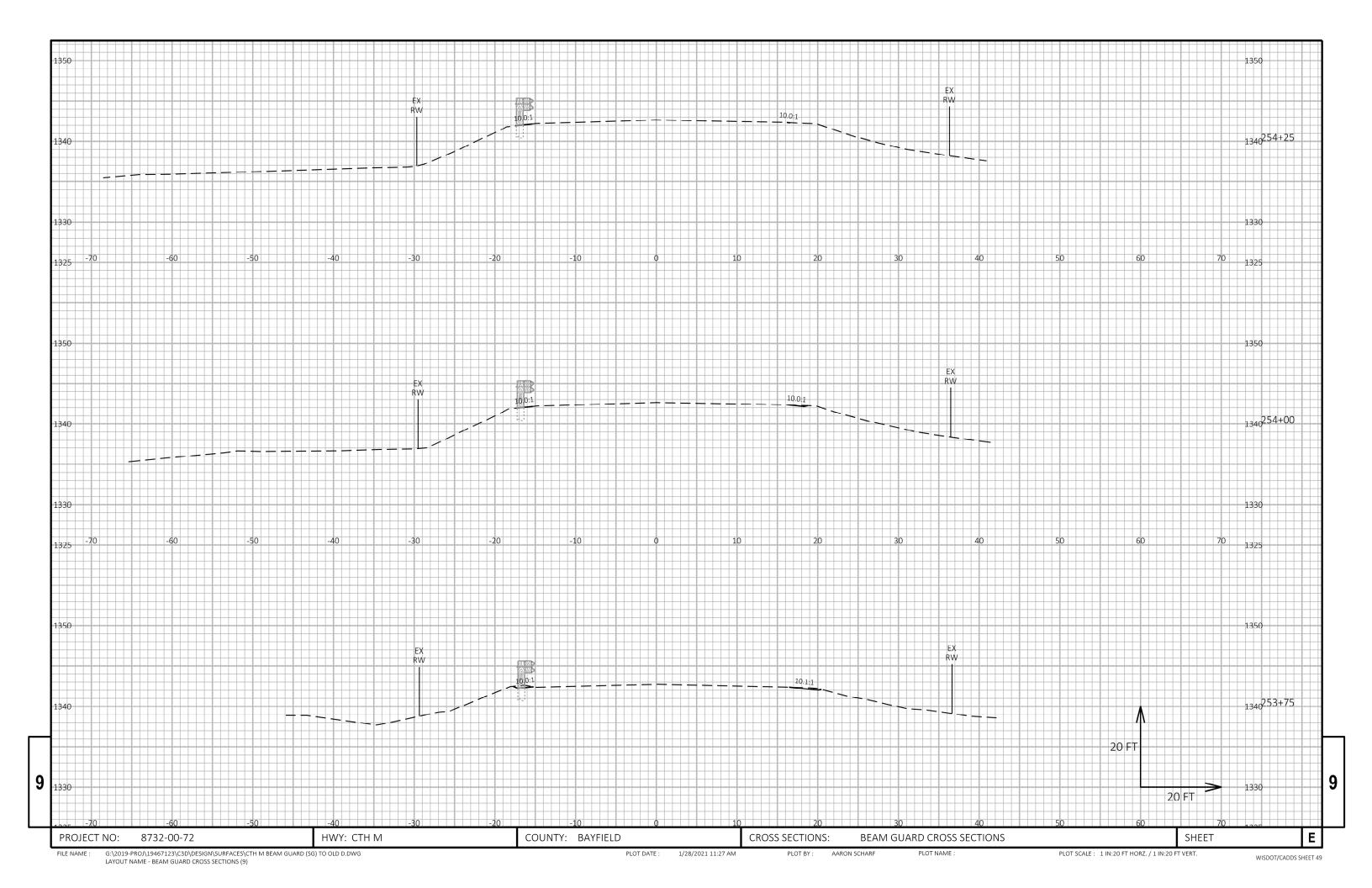


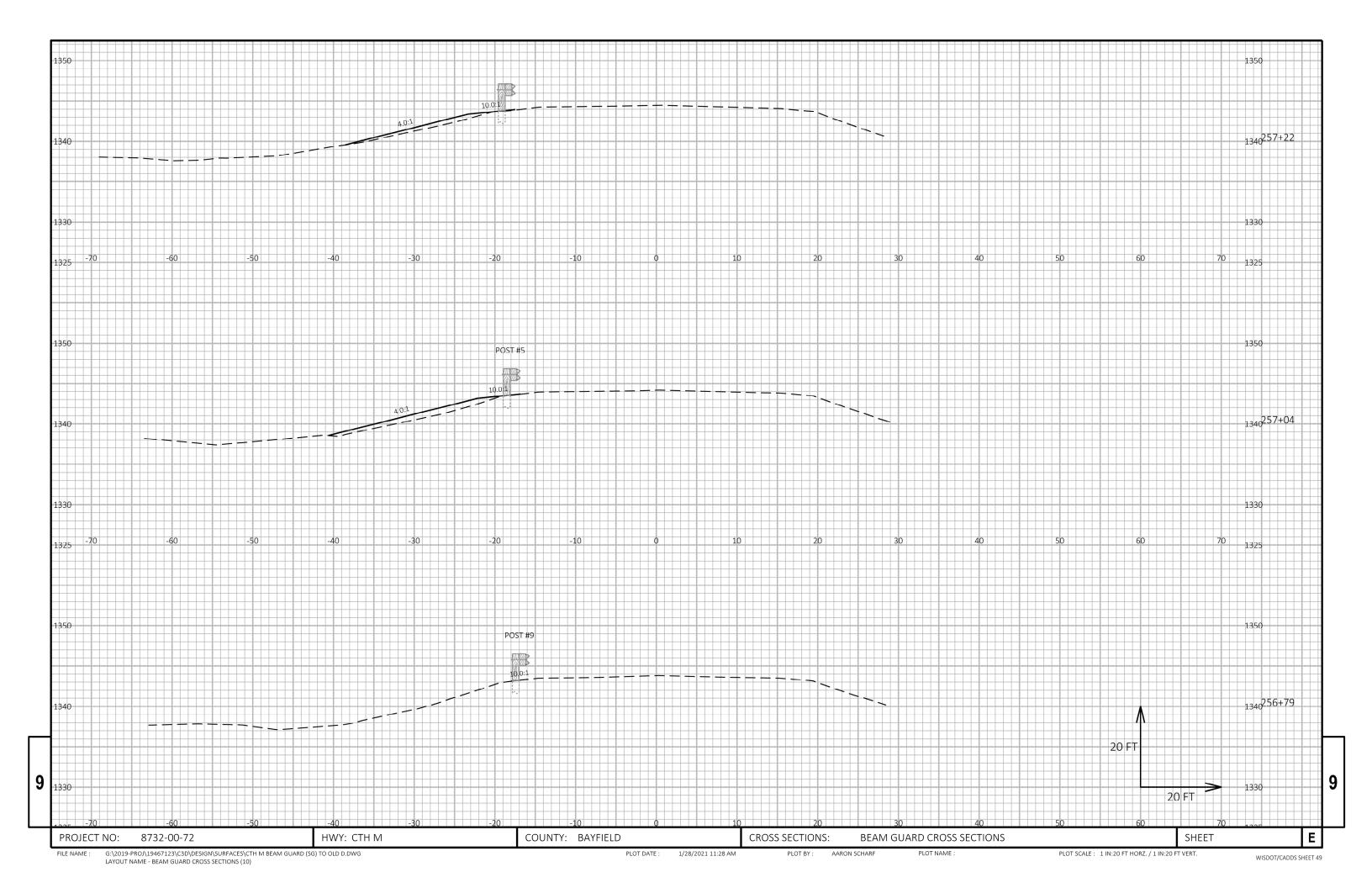


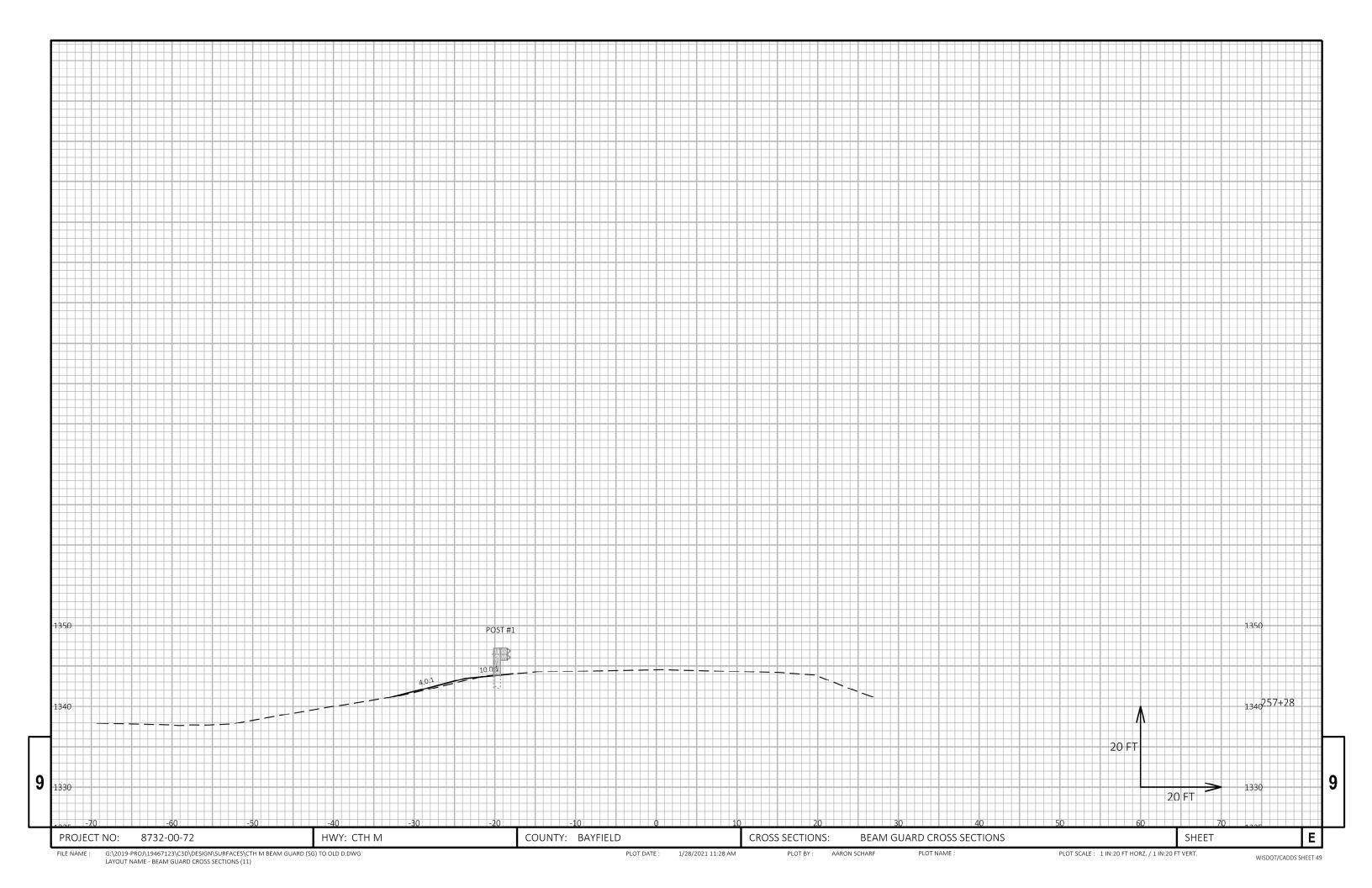












Notes



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