NOVEMBER 2020 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Plan and Profile Standard Detail Drawings CTH T - CTH T MILL CREEK BRIDGE B-25-0186 Cross Sections CTH H TOTAL SHEETS = **IOWA COUNTY** STATE PROJECT NUMBER 5579-00-73 ROBERTS **END PROJECT BEGIN PROJECT** STA 16+50 STA 11+35 X = 420577.999Y = 197 875.260 X = 420 070.730 ERDMAN DESIGN DESIGNATION 2021 = 340 2041 = 370 R-4-E = 93 = 60/40 = 11.5 DESIGN SPEED = 60 BROTHERHOOD = 88,000 LN CONVENTIONAL SYMBOLS PROJECT LOCATION PROFILE B-25-0186 GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION DUGWAY PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT 36 UTILITIES REFERENCE LINE ELECTRIC ----**FXISTING CULVERT** FIBER OPTIC T-7-N PROPOSED CULVERT GAS (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER TELEPHONE HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN WATER COORDINATE REFERENCE SYSTEM (WISCRS), MARSH AREA NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID UTILITY PEDESTAL Ħ TOTAL NET LENGTH OF CENTERLINE = 0.098 COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES POWER POLE ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED Ь TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A TELEPHONE POLE WOODED OR SHRUB AREA PLOT BY: ERIK MEYER

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5579-00-73 WISC 2020552

ACCEPTED FOR

ORIGINAL PLANS PREPARED BY

WESTBROOK

619 EAST HOXE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954

> PALMER E-35695

RICHLAND CENTER,

3-12-2020

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

WESTBROOK ASSOCIATED ENGINEERS, INC. WESTBROOK ASSOCIATED ENGINEERS, INC.

Project Manager

Regional Examiner OSCAR WINGER, P.E. Regional Supervisor

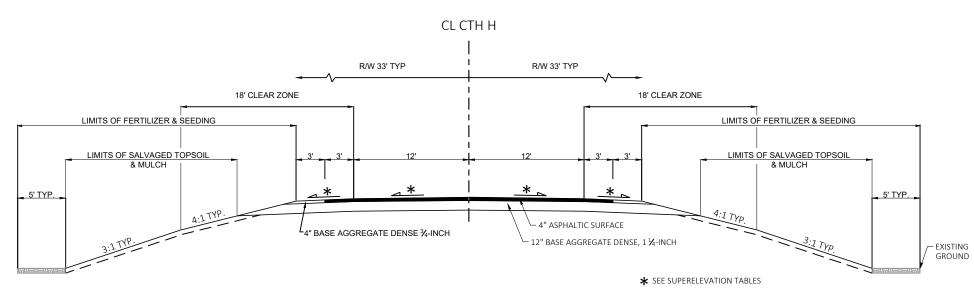
Mark Westervald DATE: 7/21/2020

E

FILE NAME: G:\00-PROJECT FILES\2017\17111 MILL CREEK BRIDGE P-25-0041 ID 5579-00-03\0-CAD\SHEETSPLAN\010101_TI.DWG

PLOT DATE: 1/16/2020 12:51 PM

TYPICAL EXISTING SECTION



TYPICAL FINISHED SECTION

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE IN PLACE PRIOR TO CONSTRUCTION

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE DRIVING LANES AND THE SHOULDERS ARE TO BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED, OR AS DIRECTED BY THE

DUE TO THE PROXIMITY OF THE PROJECT TO THE TROUT CREEK FISHERY AREA ALL MULCH SHALL

ALL RIPRAP ABOVE THE OBSERVED HIGH WATER MARK SHALL BE TOP-DRESSED WITH 6-INCHES OF

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

WETLANDS ARE PRESENT AT THE LOCATIONS SHOWN IN THE PLANS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS IN THESE LOCATIONS.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES.

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), IOWA COUNTY, HORIZONTAL DATUM NAD83, ELEVATION DATUM NAVD88.

ASPHALTIC SURFACE LAYERS:

- UPPER: 1 3/4"
- LOWER: 2 1/4

SUPERELEVATION TABLE: P.I. STA. = 12+15.20										
		LEF	-T	RIGHT						
STATION	REMARK	SHOULDER	LANE	SHOULDER	LANE					
11+35.00	B.O.P	3.8%	3.8%	-6.0%	-6.0%					
11+50.00		3.3%	3.3%	-5.7%	-5.7%					
12+00.00		1.7%	1.7%	-4.6%	-4.6%					
12+50.00		0.2%	0.2%	-3.5%	-3.5%					
12+55.41		0.0%	0.0%	-3.4%	-3.4%					
13+00.00		-1.4%	-1.4%	-2.4%	-2.4%					
13+18.75	BRIDGE	-2.0%	-2.0%	-2.0%	-2.0%					

SUPERELEVATION TABLE: P.I. STA. = 16+52.43										
	LEF	-T	RIGHT							
REMARK	SHOULDER	LANE	SHOULDER	LANE						
BRIDGE	-2.0%	-2.0%	-2.0%	-2.0%						
	-2.2%	-2.2%	-1.4%	-1.4%						
	-2.7%	-2.7%	0.0%	0.0%						
	-2.8%	-2.8%	0.2%	0.2%						
	-3.4%	-3.4%	1.9%	1.9%						
E.O.P	-4.0%	-4.0%	3.5%	3.5%						
	REMARK BRIDGE	LEF REMARK SHOULDER BRIDGE -2.0% -2.2% -2.7% -2.8% -3.4%	LEFT REMARK SHOULDER LANE BRIDGE -2.0% -2.0% -2.2% -2.2% -2.2% -2.7% -2.7% -2.7% -2.8% -2.8% -3.4%	LEFT RIG REMARK SHOULDER LANE SHOULDER BRIDGE -2.0% -2.0% -2.0% -2.2% -2.2% -1.4% -2.7% -2.7% 0.0% -2.8% -2.8% 0.2% -3.4% -3.4% 1.9%						

COMMUNICATIONS

CENTURYLINK STEVE BISHOP 130 4TH ST BARABOO, WI 53913 PHONE: (608) 963-8594 EMAIL: steven.bishop@centurylink.com

COMMUNICATIONS

FILE NAME

FRONTIFR DANA GILLETT 100 COMMUNICATIONS DR. SUN PRAIRIE, WI 53590 PHONE: (608) 512-2389 EMAIL: Dana.Gillett@ftr.com

ELECTRIC

ALLIANT ENERGY MICHAEL BROLIN 4902 N BILTMORE LN MADISON, WI 53713 PHONE: (608) 458-4871 EMAIL: MichaelBrolin@alliantenergy.com

Dial 811 or (800)242-8511 www.DiggersHotline.com

CONTACTS

CONSULTANT LIAISON WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 apalmer@westbrookeng.com

WisDNR LIAISON

DNR SOUTH CENTRAL REGION HQ 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

COUNTY: IOWA

ATTN: ANDY BARTA PH: (608) 275-3308 andrew.barta@wisconsin.gov

COUNTY LIAISON

1215 N. BEQUETTE STREET DODGEVILLE, WI 53533 ATTN: CRAIG HARDY PH: (608) 935-3381 Craig.Hardy@iowacounty.org

IOWA COUNTY HIGHWAY DEPT.

ANNUAL AVERAGE DAILY TRAFFIC AADT AGGREGATE

B.M. BENCH MARK Ç OR CL CR. CENTERLINE CRUSHED COUNTY TRUNK HIGHWAY C.T.H. CWT. HUNDREDWEIGHT CUBIC YARD DOUBLE HEADED DН D.H.V. DESIGN HOURLY VOLUME DIRECTED COR CORNER EL. OR ELEV. ELEVATION FIELD ENTRANCE FT. FOOT (FEET) GAI GALLON H.W. HIGH WATER INCHES SIGHT DISTANCE

STANDARD ABBREVIATIONS LINEAR FEET ΙF

REQ'D REQUIRED LEFT HAND FORWARD L.H.F RIGHT LUMP SUM R/W RIGHT-OF-WAY ROAD MAX. MAXIMUM RDWY ROADWAY MINIMUM MIN. SOUTH NORTH SOUTHEAST NOR. NORMAL SHRINKAGE PAV'T PAVEMENT S.R. SIDE ROAD POINT OF CURVE P.C. STD. STANDARD POINT OF INTERSECTION S.T.H. STATE TRUNK HIGHWAY P.E. PRIVATE ENTRANCE STA. STATION PARKER-KALON NAII S.Y. SQUARE YARD POR PL P.P. PROPERTY LINE TANGENT LENGTH OF CURVE POWER POLE TRANSIT LINE PROJ. **PROJECT** UNCL. UNCLASSIFIED EXCAVATION POINT OF TANGENCY DESIGN SPEED V.C. PVMT. PAVEMENT VERTICAL CURVE RADIUS VAR. VARIABLE RR RAILROAD WEST REINF REINFORCED

PROJECT NO: 5579-00-73 HWY: CTH H

8/31/2020 9:12 AM

PLOT BY:

AAG.

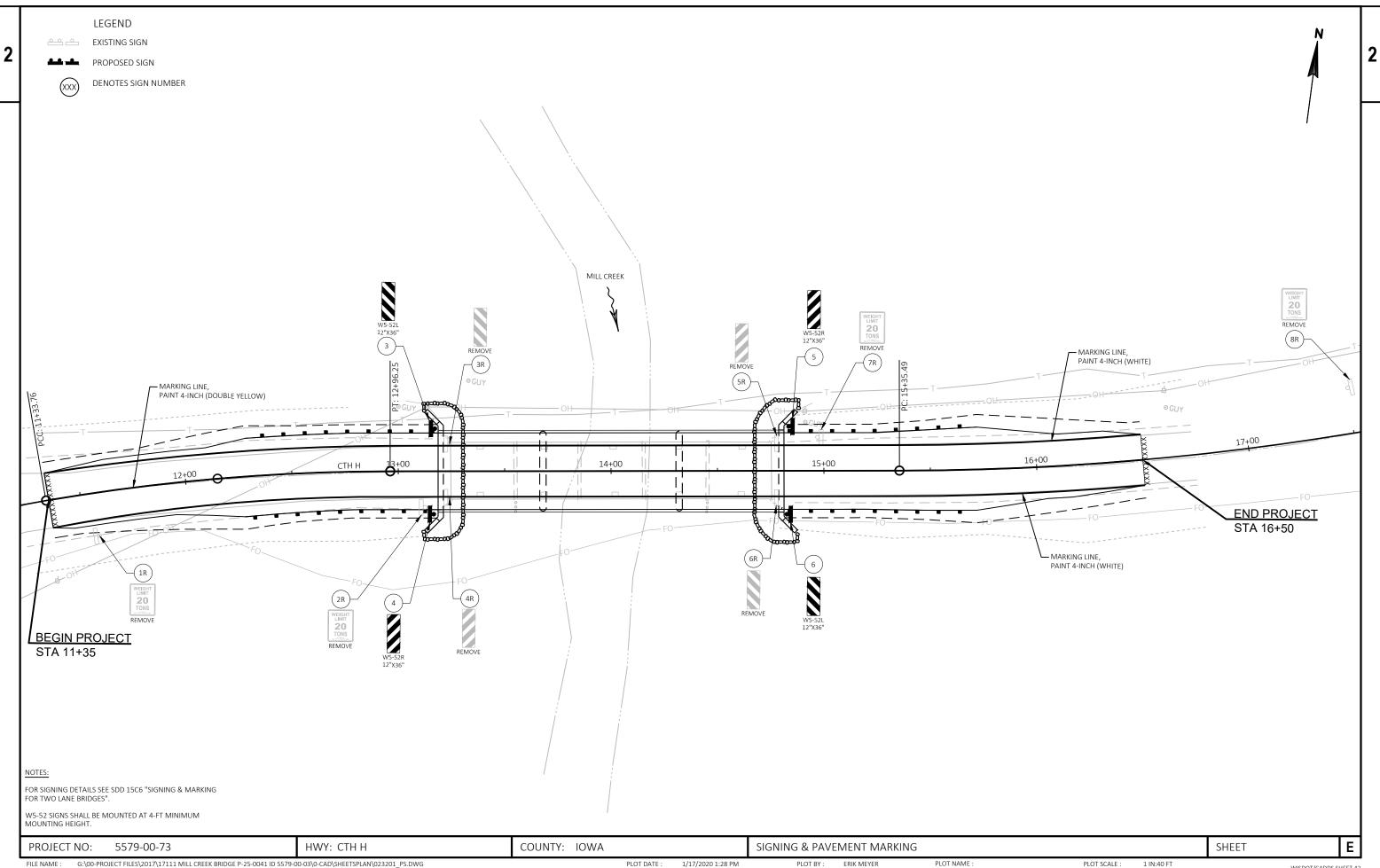
LENGTH OF CURVE

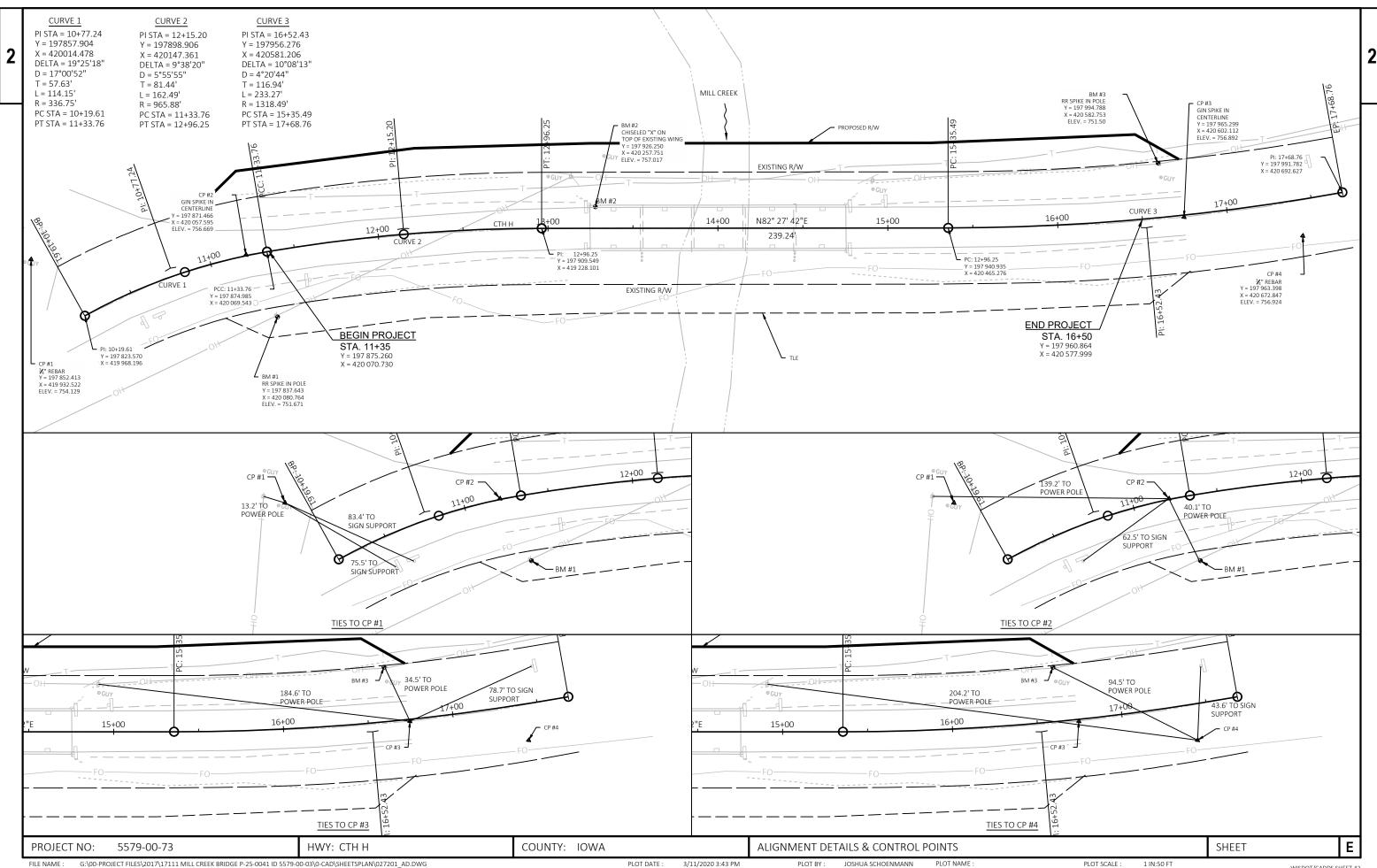
PLOT NAME

PLOT SCALE :

SHEET

Ε





⊃age	1

					5579-00-73
Lina	lto	Itam Decembris	l lm!4	Tetal	
Line	Item	Item Description	Unit	Total	Qty
0002	203.0600.S	Debris (station) 01. 14+00	LS	1.000	1.000
0004	205.0100	Excavation Common	CY	516.000	516.000
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-25-0186	LS	1.000	1.000
8000	208.0100	Borrow	CY	901.000	901.000
0010	210.1500	Backfill Structure Type A	TON	420.000	420.000
0012	213.0100	Finishing Roadway (project) 01. 5579-00-73	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	64.000	64.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,270.000	1,270.000
0018	450.4000	HMA Cold Weather Paving	TON	297.000	297.000
0020	455.0605	Tack Coat	GAL	93.000	93.000
0022	465.0105	Asphaltic Surface	TON	297.000	297.000
0024	502.0100	Concrete Masonry Bridges	CY	580.000	580.000
0026	502.3200	Protective Surface Treatment	SY	817.000	817.000
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	12,040.000	12,040.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	97,980.000	97,980.000
0032	513.7084	Railing Steel Type NY4	LF	331.000	331.000
0032	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000
0034	550.0500	Pile Points	EACH	36.000	36.000
0038	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	1,040.000	1,040.000
0040	550.2126	Piling CIP Concrete 12 3/4 X 0.375-Inch	LF	1,400.000	1,400.000
0042	606.0300	Riprap Heavy	CY	71.000	71.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0046	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0048	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0050	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5579-00-73	EACH	1.000	1.000
0052	619.1000	Mobilization	EACH	1.000	1.000
0054	624.0100	Water	MGAL	14.000	14.000
0056	625.0500	Salvaged Topsoil	SY	1,880.000	1,880.000
0058	627.0200	Mulching	SY	1,985.000	1,985.000
0060	628.1504	Silt Fence	LF	1,205.000	1,205.000
0062	628.1520	Silt Fence Maintenance	LF	1,930.000	1,930.000
0064	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0068	628.6005	Turbidity Barriers	SY	120.000	120.000
0070	629.0210	Fertilizer Type B	CWT	1.700	1.700
0072	630.0200	Seeding Temporary	LB	70.000	70.000
0074	630.0500	Seed Water	MGAL	42.000	42.000
0014	030.0300	OCCU YVAICI	IVIOAL	42.000	42.000

Estimate Of Quantities

					5579-00-75
Line	Item	Item Description	Unit	Total	Qty
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0800	638.2602	Removing Signs Type II	EACH	8.000	8.000
0082	638.3000	Removing Small Sign Supports	EACH	8.000	8.000
0084	642.5001	Field Office Type B	EACH	1.000	1.000
0086	643.0420	Traffic Control Barricades Type III	DAY	2,332.000	2,332.000
8800	643.0705	Traffic Control Warning Lights Type A	DAY	3,816.000	3,816.000
0090	643.0900	Traffic Control Signs	DAY	2,120.000	2,120.000
0092	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0094	643.5000	Traffic Control	EACH	1.000	1.000
0096	645.0111	Geotextile Type DF Schedule A	SY	84.000	84.000
0098	645.0120	Geotextile Type HR	SY	158.000	158.000
0100	646.1005	Marking Line Paint 4-Inch	LF	2,060.000	2,060.000
0102	650.4500	Construction Staking Subgrade	LF	353.000	353.000
0104	650.5000	Construction Staking Base	LF	353.000	353.000
0106	650.6500	Construction Staking Structure Layout (structure) 01. B-25-0186	LS	1.000	1.000
0108	650.9910	Construction Staking Supplemental Control (project) 01. 5579-00-73	LS	1.000	1.000
0110	650.9920	Construction Staking Slope Stakes	LF	353.000	353.000
0112	690.0150	Sawing Asphalt	LF	50.000	50.000
0114	715.0502	Incentive Strength Concrete Structures	DOL	3,480.000	3,480.000
0116	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0118	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0120	SPV.0060	Special 01. Verify Landmark Reference Monuments	EACH	1.000	1.000
0122	SPV.0085	Special 01. Blanchard's Cricket Frog Seed Mix	LB	18.000	18.000
0124	SPV.0180	Special 01. Salvaged Topsoil Over Riprap	SY	84.000	84.000

EARTHWORK SUMMARY

STATION	- 5	STATION	LOCATION	COMMON EXCAVATION (1) (ITEM # 205.0100) CUT (2)	11	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (5) FACTOR 1.25	MASS ORDINATE +/- (6)	BORROW (7) (ITEM # 208.0100)	COMMENT:
11+35		13+19	WESTAPPROACH	280	102	178	409	512	-334	334	
14+81	=	16+50	EAST AP PROACH	236	96	140	566	708	-567	567	
			TOTALS	516	198	318	975	1219	-901	901	

1) COMMON EXCAVATION IS THE CUT. ITEM # 205.0100.

- 2) SALVAGED / UNU SABLE MATERIAL IS INCLUDED IN CUT.
- 3) SALVAGED/UNU SABLE MATERIAL INCLUDES ASPHATLIC PAVEMENT.
- 4) AVAILABLE MATERIAL CUT SALVAGED/UN USABLE MATERIAL
- 5) EXPANDED FILL FACTOR = 1.25: EXPANDED FILL = (UNEXPANDED FILL)*1.25
- 6) THE MASS ORDINATE + OR CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL IN THE DIVISION.
- 7) BORROW ABSOLUTE VALUE OF MASS ORDINATE

MGS GUARDRAIL

					614.2610
				614.2500	MGS
				MGS	GUARDRAIL
				TH RIE BEAM	TER MINAL
				TRANSITION	EAT
STATION	12	STATION	LOCATION	(LF)	(EACH)
12+29.29	7	13+18.75	MAINLINE, LT	39.40	1
12+26.84	-	13+18.75	MAINLINE, RT	39.40	1
14+81.25		15+72.42	MAINLINE, LT	39.40	1
14+81.25	-	15+71.42	MAINLINE, RT	39.40	1
		10	TOTALS	157.60	4

ASPHALTIC ITEMS

				450.4000	455.0600	465.0105
				HMA COLD	TACK	ASP HALTIC
				WEATHER PAVING	COAT	SURFACE
STATION	•	STATION	LOCATION	(TON)	(GAL)	(TON)
11+35.00	-	13+19.00	MAINLINE	153	48	153
14+81.00	•	16+50.00	MAINLINE	144	45	144
			TOTALS	297	93	297

FINISHING ITEMS

					SPV.0180.01				SPV.0085.01	
				625.0500	SALVAG ED		629.0210	630.0200	BLAN CHARD'S	630.0500
				SALVAGED	TOPSOIL	627.0200	FERTILIZER	SEEDING	CRICKET FROG	SEED
				TOP SOIL	OVER RIPRAP	MULCHING	TYPEB	TEMPORARY	SEED MIX	WATER
STATION	57	STATION	LOCATION	(SY)	(SY)	(SY)	(CWT)	(LB)	(LB)	(MGAL)
11+35	_	13+19	WESTAPPROACH	742		742	0.6	26	6	16
14+81	•	16+50	EASTAPPROACH	763		763	0.6	26	6	16
			WESTRIPRAP		42	42	0.1	2.0	1	1
			EAST RIPRAP		42	42	0.1	2.0	1	1
		22	UNDISTRIBUTED	375		396	0.3	14.0	4	8
		5	TOTALS	1880	84	1985	1.7	70	18	42

TURBIDITY BARRIER

	628.6005
LOCATION	(SY)
WESTAPPROACH	57
EAST A PPR OACH	63
TOTALS	120

BASE AGGREGATE DENSE

STATION	-	STATION	LOCATION	305.0110 3/4-INCH SHLD. (TON)	305.0120 11/4-INCH BASE (TON)	614.0100 WATER (MGAL)
11+35	200	13+19	WEST APPROACH	33	655	7.0
14+81		16+50	TOTALS	64	615 1270	7.0

SILT FENCE

				628.1504	628.1520
				SILT	SILT FENCE
				FENCE	MAINTENANCE
STATION	2	STATION	LOCATION	(LF)	(LF)
11+35	-	13+19	MAINLINE, LT	265	530
11+35	2	13+19	MAINLINE, RT	233	466
14+81		16+50	MAINLINE, LT	226	452
14+81	-	16+50	MAINLINE, RT	241	482
		_	UNDISTRIBUTED	240	-
			TOTALS	1205	1930

MOBILIZATIONS EROSION CONTROL

628.1910 628.1905 MOBILIZATIONS MOBILIZATIONS **EMERGENCY** EROSION CONTROL EROSION CONTROL LOCATION (EACH) (EACH) ID 5579-00-73 3 3 TOTALS

ALL QUANTITIES CATEGORY 0010 UNLESS NOTED OTHERWISE.

COUNTY: IOWA PROJECT NO: 5579-00-73 HWY: CTH H MISCELLANEOUS QUANTITIES SHEET G:\00-PROJECT FILES\2017\17111 MILL CREEK BRIDGE P-25-0041 ID 5579-00-03\0-CAD\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030201_mq PLOT BY: ERIK MEYER PLOT NAME :

PLOT DATE: 8/31/2020 8:28 AM

FILE NAME :

SIGNING

STATION	LOCATION	PLAN NUMBER	SIG N COD E	634.0612 P OSTS W OOD 4X6-I NCH X 12-FT (EACH)	637.2230 SIGNS TYPE II REFLECTIVE TYPE F (SF)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIG N SUPPORTS (EACH)
11+56	RT	1R	WEIGHTLIMIT		-	1	1
13+13	RT	2R	WEIGHTLIMIT	===		1	1
13+18	LT	3	W5-52L	1	3	222	222
13+24	LT	3R	W5-52L	-		1	1
13+18	RT	4	W5-52R	1	3		
13+24	RT	4R	W5-52R	200		1	1
14+82	LT	5	W5-52R	1	3	TTT:	
14+76	LT	5R	W5-52R			1	1
14+82	RT	6	W5-52L	1	3	-	
14+76	RT	6R	W5-52L			1	1
14+97	LT	7R	WEIGHTLIMIT	(400 ft)		1	1
17+50	LT	8R	WEIGHTLIMIT	###.		1	1
			TOTAL	4	12	8	8

TRAFFIC CONTROL

		TRAFFIC BARRI	0420 CONTROL CADES PE III	TRAFFIC WARNING	0705 CONTROL GLIGHTS DEA	TRAFFIC	0900 CONTROL GNS		1050 CONTROL MS	643.5000 TRAFFIC CONTROL
LOCATION	DURATION	(NO.)	(DAY)	(NO.)	(DAY)	(NO.)	(DAY)	(NO.)	(DAY)	(EACH)
CTH H	106	14	1484	20	2120	8	848	2	14	1
CTH H & COON ROCK RD	106	2	212	4	424	3	318		Name of the last o	15 <u>25 2-</u> 1
CTH H & ROBERTS RD	106	2	212	4	424	3	318			(******
CTH H & ERDMAN RD	106	2	212	4	424	3	318		***** *******************************	(c)
CTH H & MILL RD	106	2	212	4	424	3	318	Eranal E	5555).	k asa d
	TOTAL	22	2332	36	3816	20	2120	2	14	1

PLACE TRAFFIC CONTROL IN ACCORDANCE WITH SDD 15C2. PLACEMENT SUBJECT TO ENGINEER APPROVAL.

MARKING LINE PAINT 4-INCH

				646.1005	
STATION	FOR	STATION	LOCATION	(LF)	REMARK
11+35	2	16+50	CENTERLINE	1030	DOUBLEYELLOW
11+35	-	16+50	LEFTEDGE	515	WHITE
11+35	22	16+50	RIGHT EDGE	515	WHITE
		-	TOTAL	2060	

CONSTRUCTION STAKING

						650.6500	650.9910	650.992
				650.4500	650.5000	STRUCTURE	SUPPLEMENTAL	SLOPE
				SUBG RADE	BASE	LAYOUT	CONTROL	STAKES
STATION	2	STATION	LOCATION	(LF)	(LF)	(LS)	(LS)	(LF)
11+35	7.	13+19	MAINLINE	184	184		0.5	184
14+81	-	16+50	MAINLINE	169	169		0.5	169
			TOTALS	353	353	1*	1	353

* CATEGORY 0020

SAWING ASPHALT

	STATION	LOCATION	690.0150 (LF)
-	11+35	MAINLINE	26
	16+50	MAINLINE	24
		TOTAL	50

VERIFY LANDMARK REFERENCE MONUMENT

STATION	LOCATION	SPV.0060.01 (EACH)
16+14.08	43.57'LT	1
	TOTAL	1

ALL QUANTITIES CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO: 5579-00-73 HWY: CTH H

COUNTY: IOWA

MISCELLANEOUS QUANTITIES

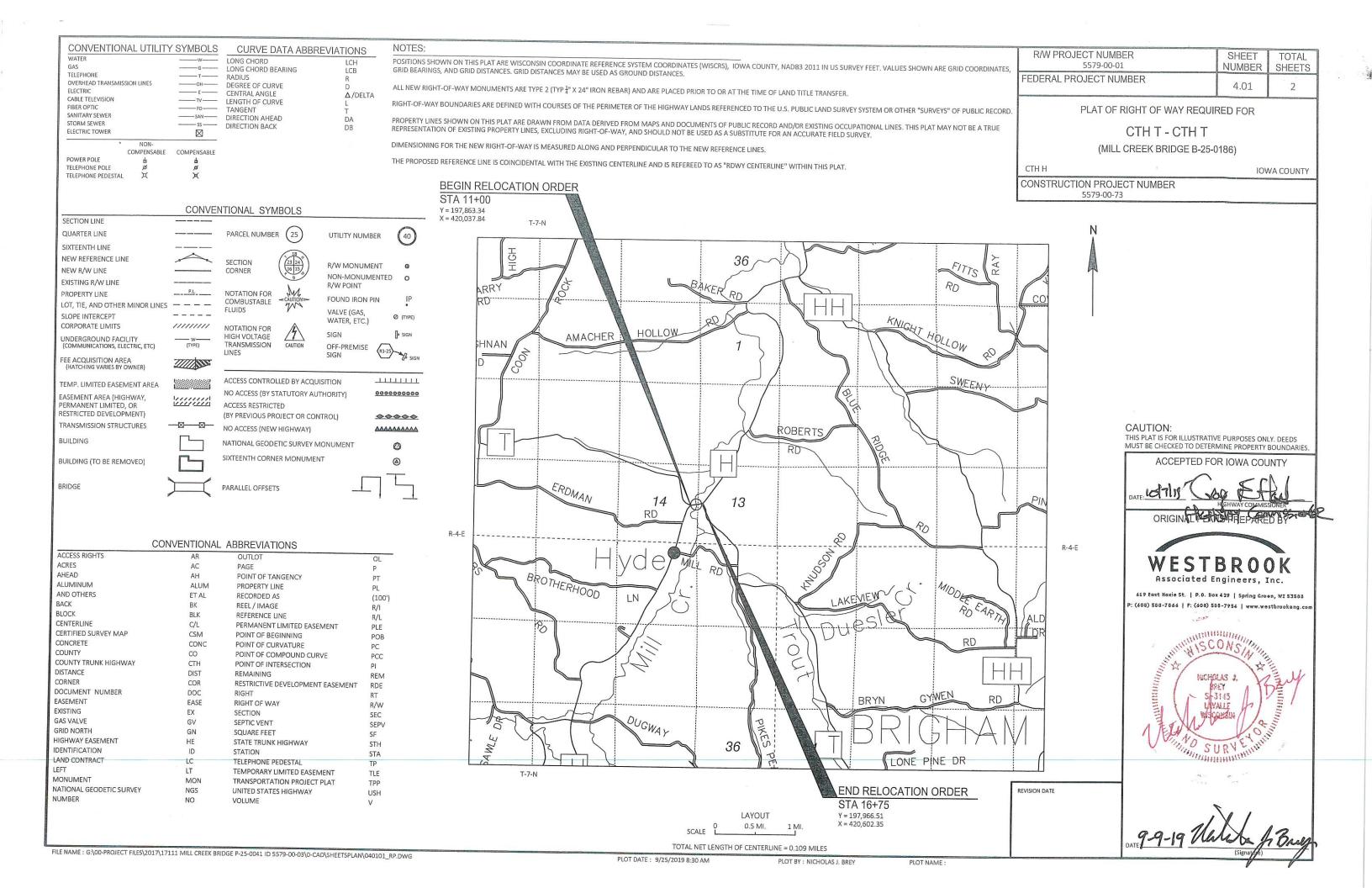
SHEET

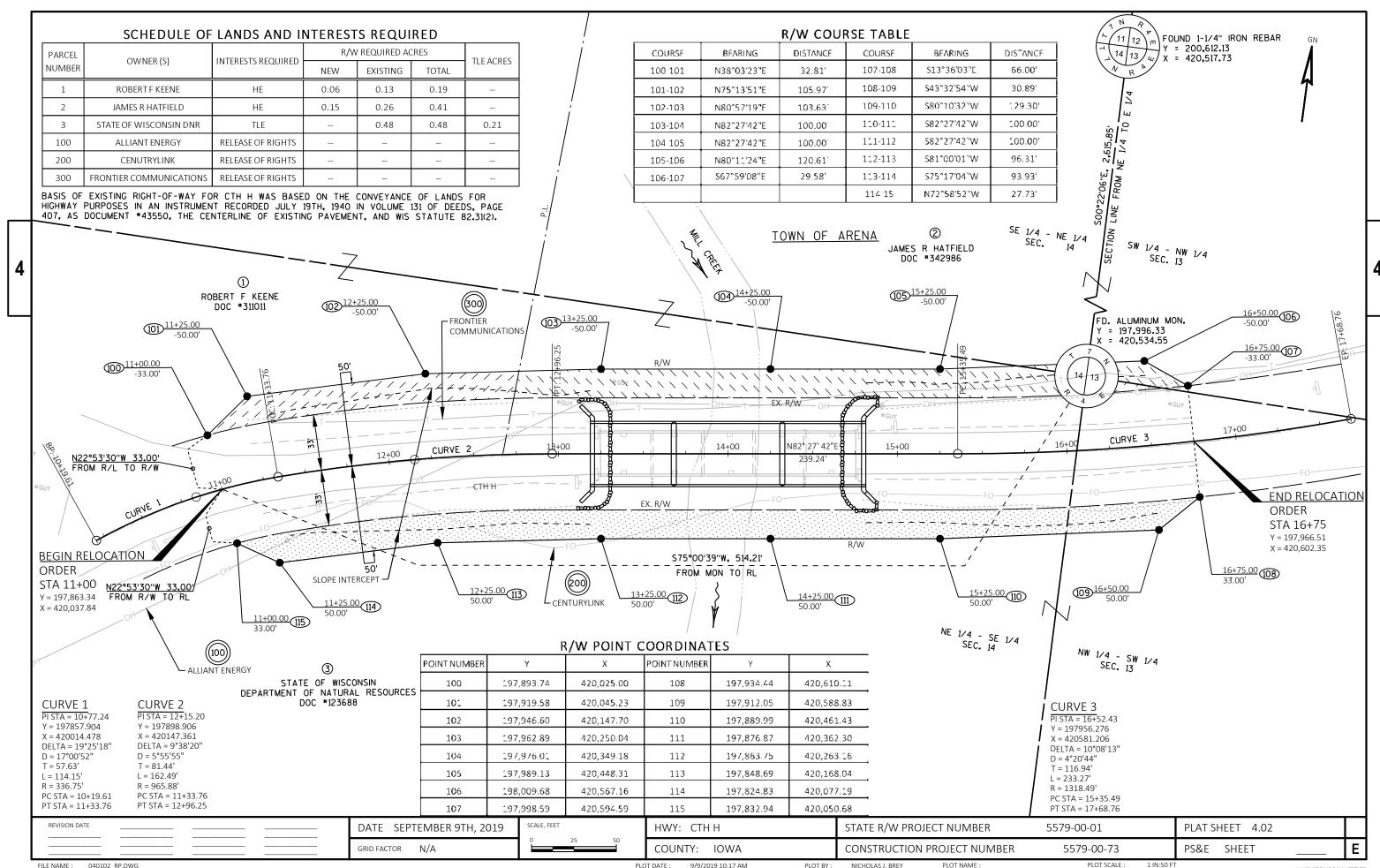
FILE NAME : G:\00-PROJECT FILES\2017\17111 MILL CREEK BRIDGE P-25-0041 ID 5579-00-03\0-CAD\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030202_mq

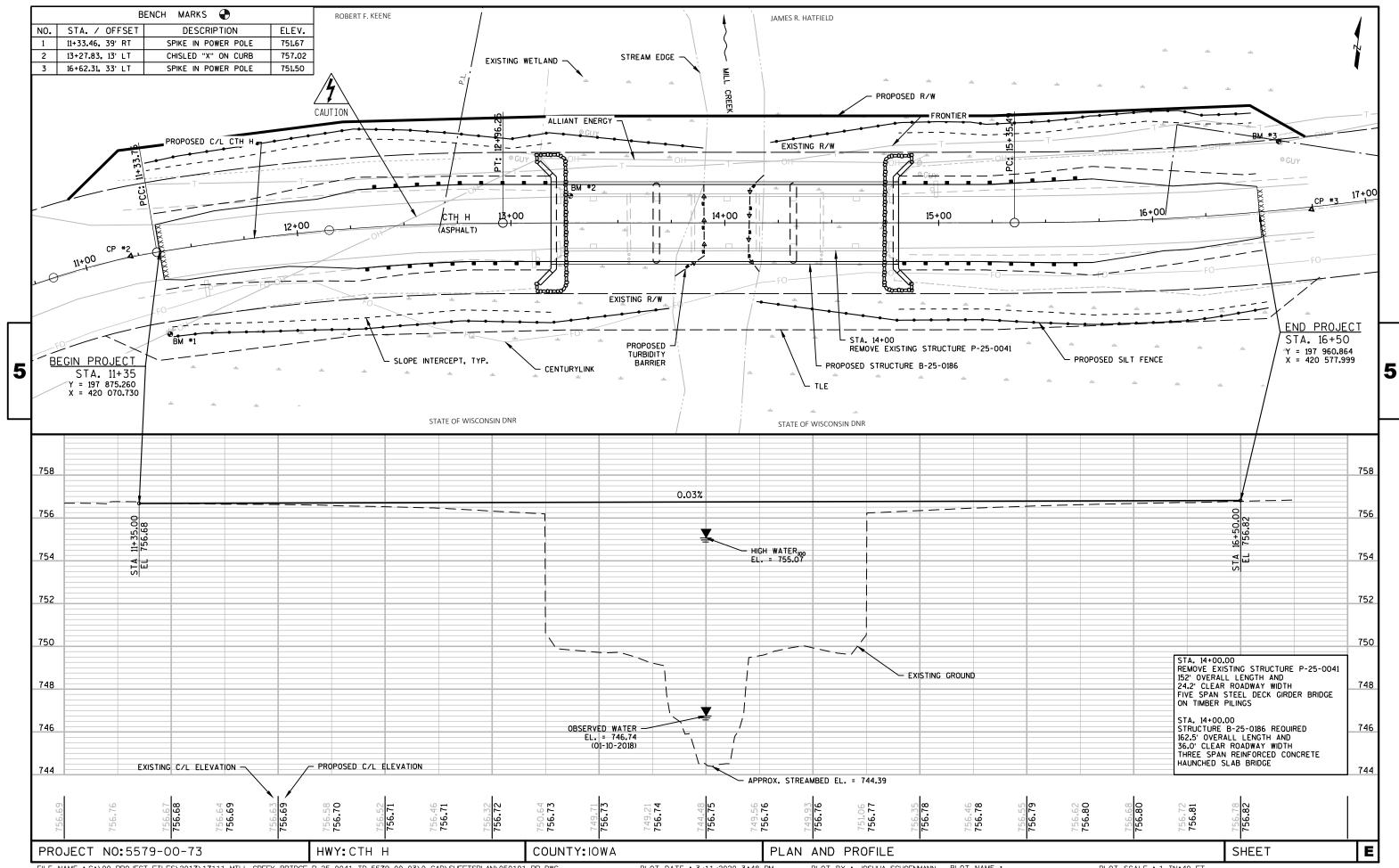
PLOT DATE: 8/31/2020 8:28 AM

PLOT BY: ERIK MEYER

PLOT NAME :







Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
14B42-06A	MIDWEST GUARDRAIL SYSTÉM (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)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	
	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
	ATTACHMENT OF SIGNS TO POSTS
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

တ ∞

6

Ū

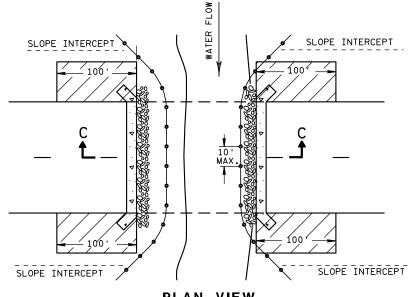
D

GENERAL NOTES

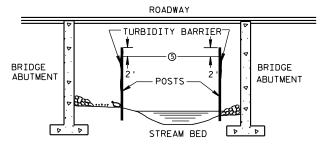
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

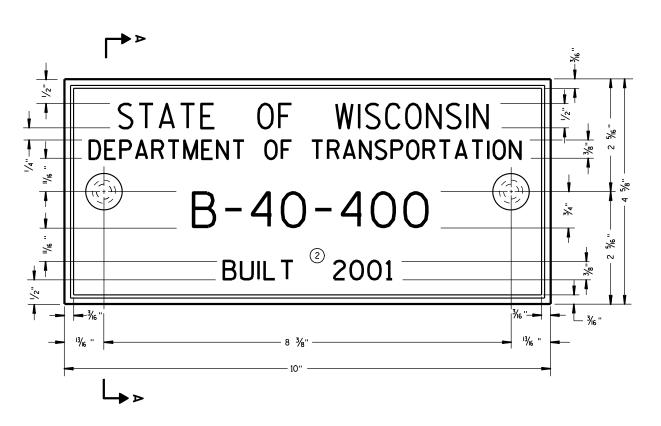
APPROVED

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

 ∞

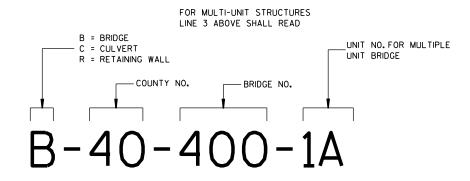
Ω





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



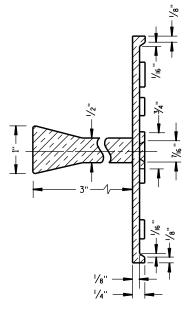
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

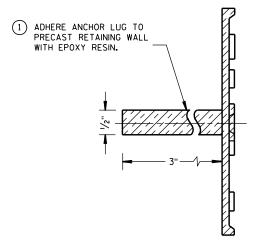
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

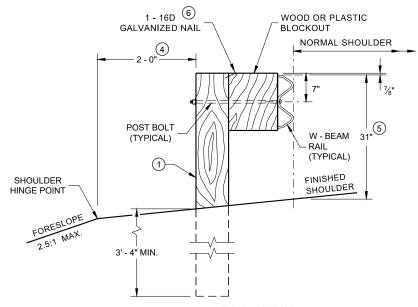
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

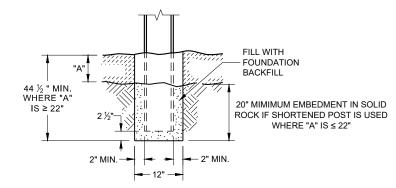
APPROVED

 D. 12 A 3-10

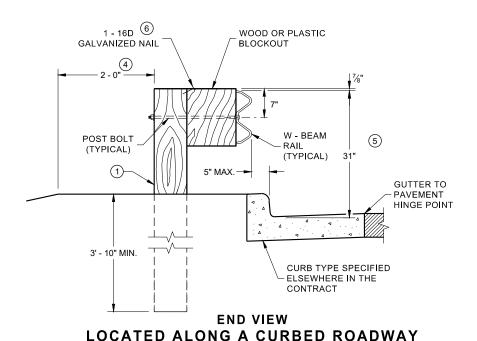
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 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.

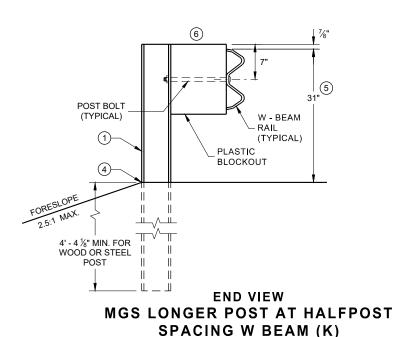


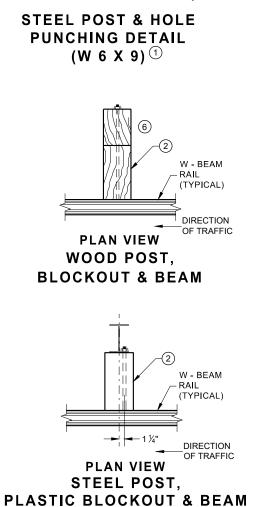
END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

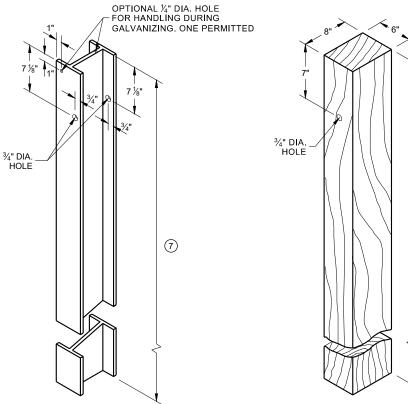


END VIEW SETTING STEEL OR WOOD POST IN ROCK

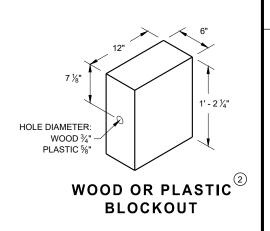








WOOD POST (6" X 8") NOMINAL



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

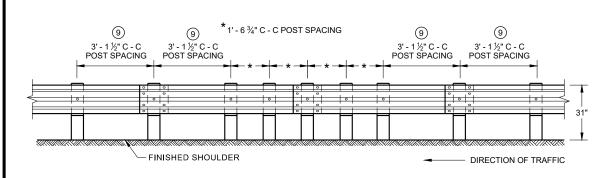
POST SPACING

DIRECTION OF TRAFFIC

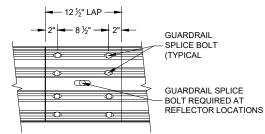
6' - 3" C -C

POST SPACING

FINISHED SHOULDER

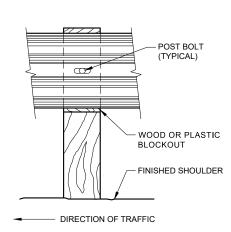


FRONT VIEW **QUARTER POST SPACING (QS)**



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

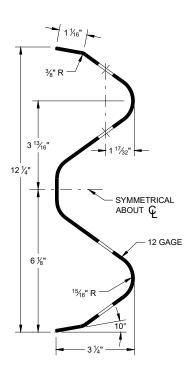
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

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

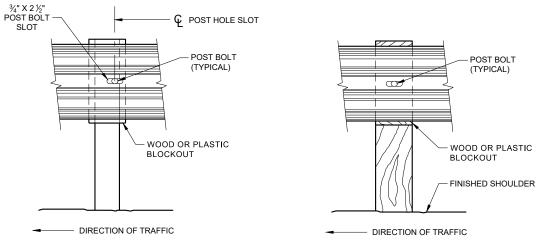
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

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

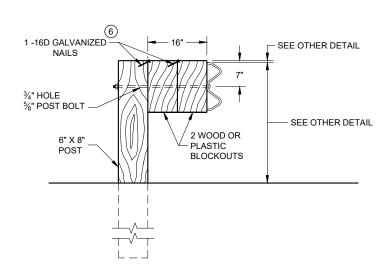
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

90

<u>4</u>

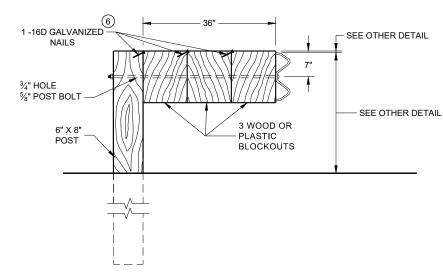
SDD

6



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.



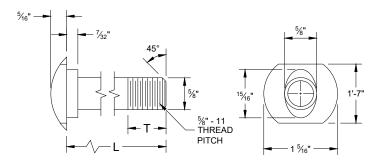
DETAIL FOR 36" BLOCKOUT DEPTH

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.

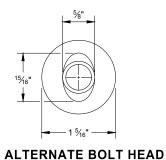
NOTE:

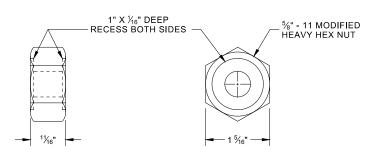
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

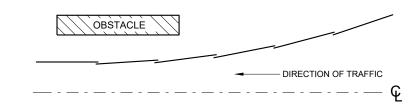
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



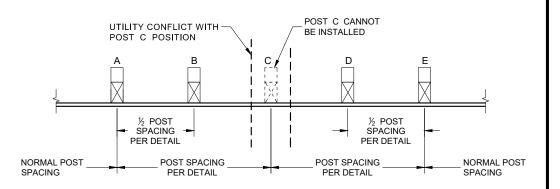


POST BOLT, SPLICE BOLT AND RECESS NUT

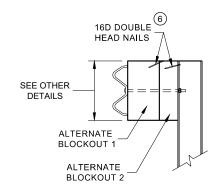
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

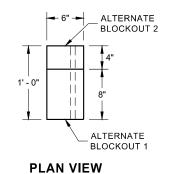


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

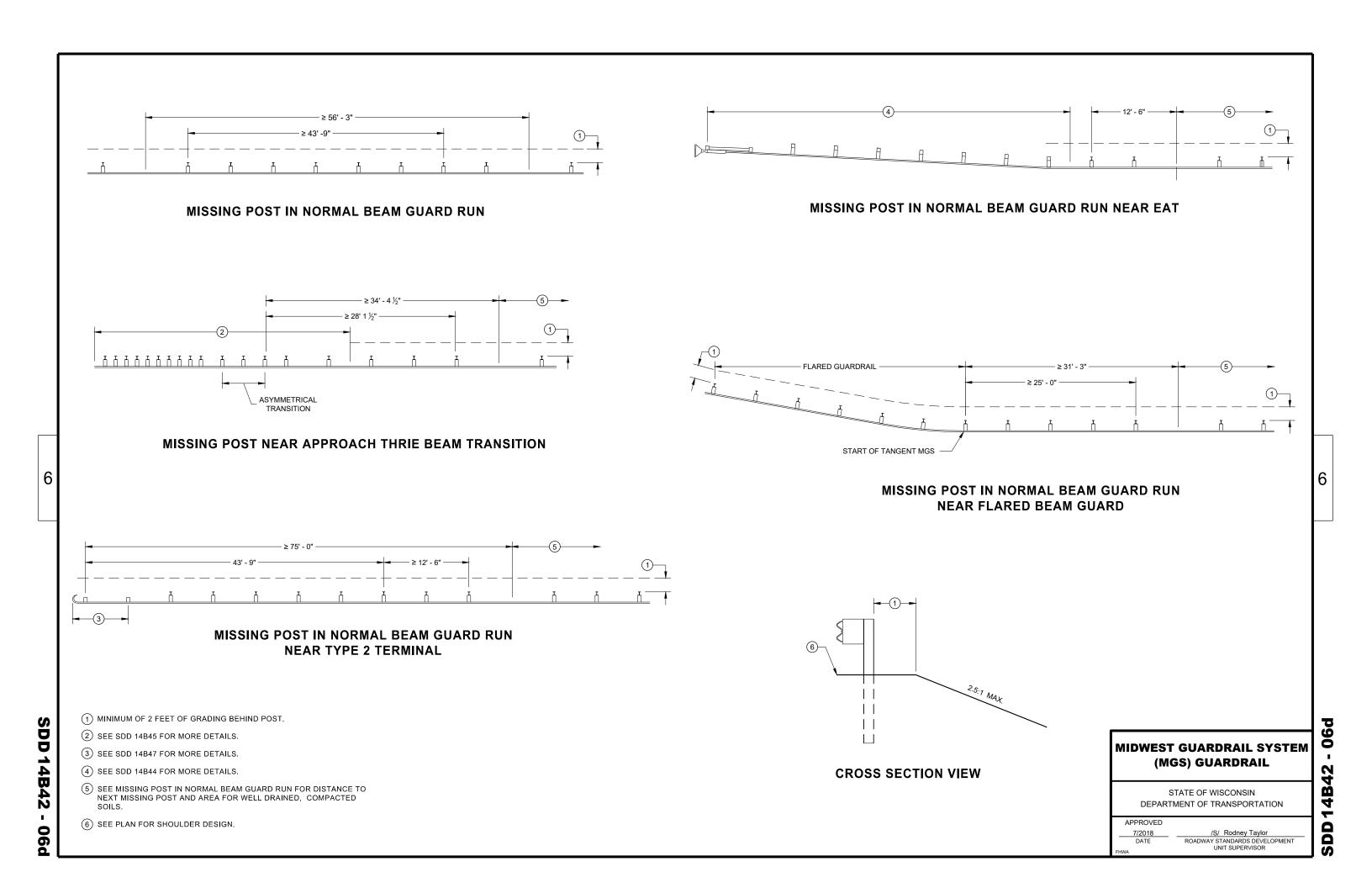
ALTERNATE WOOD BLOCKOUT DETAIL

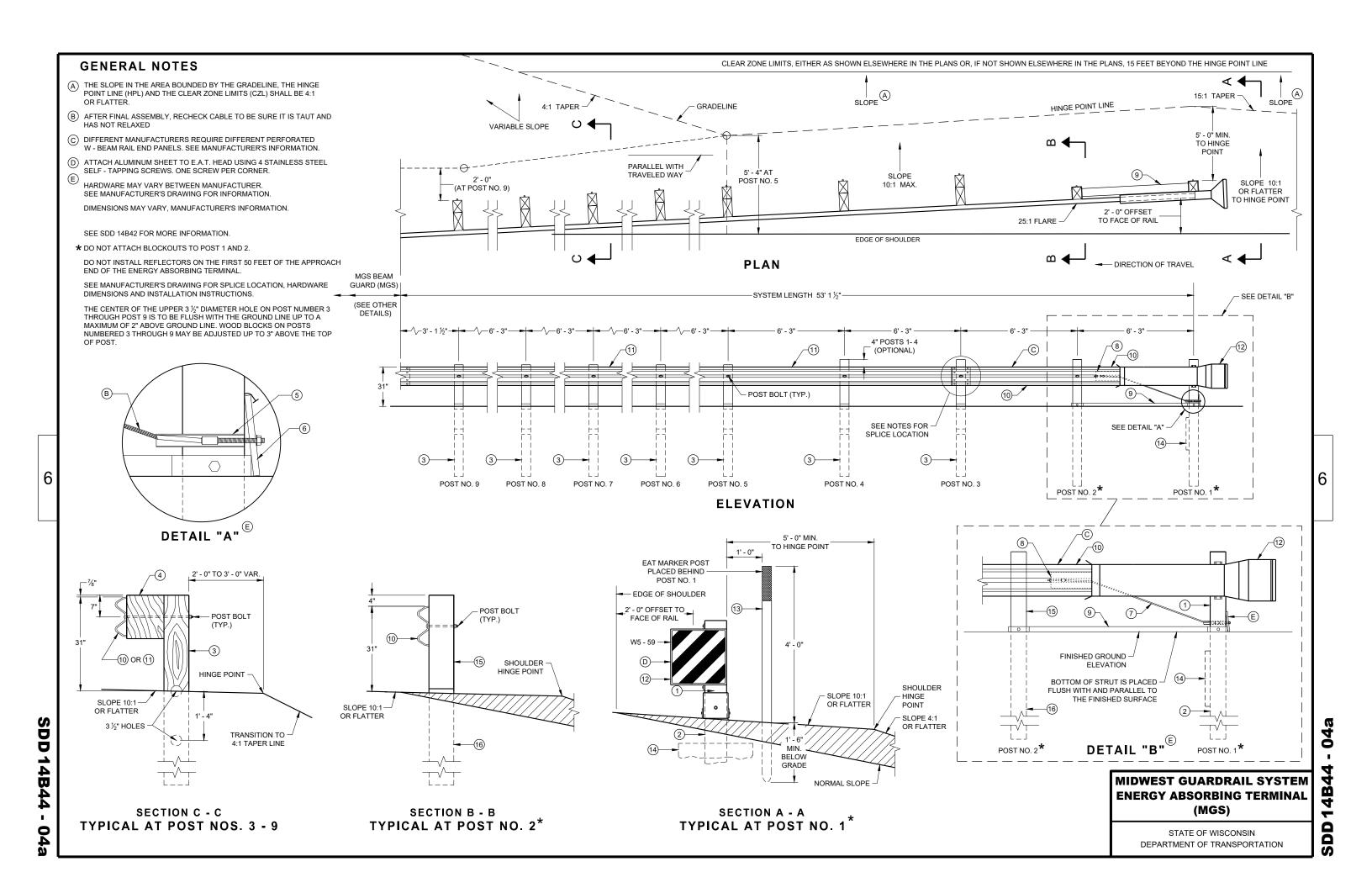
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

90

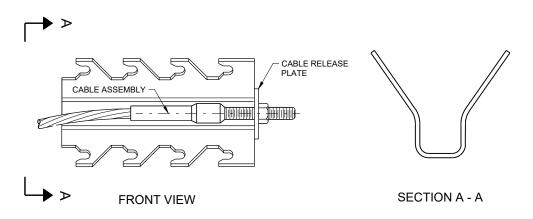
SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

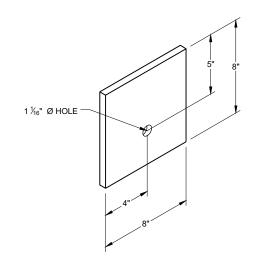




GENERIC GROUND STRUT



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



BEARING PLATE

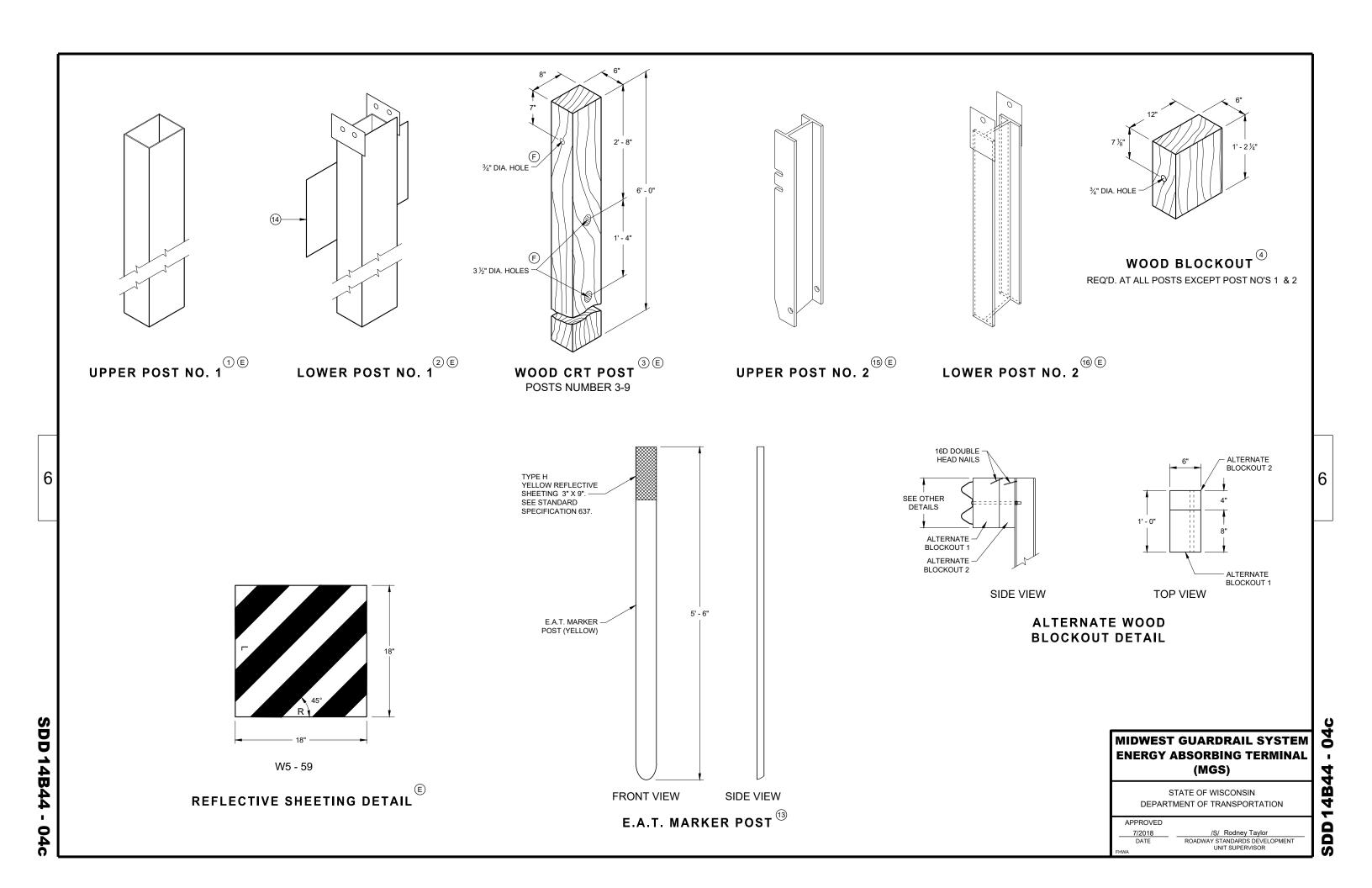
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

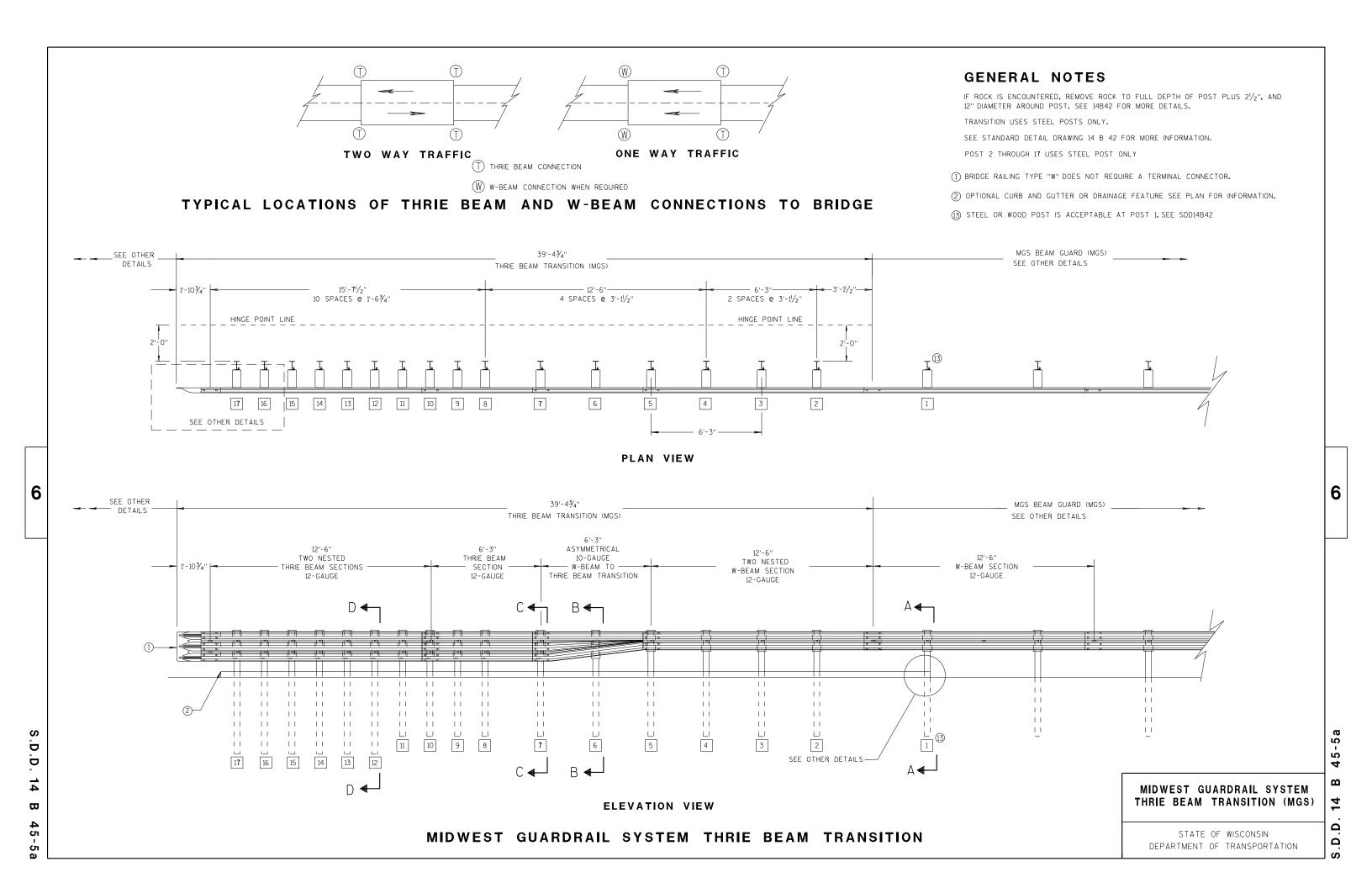
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

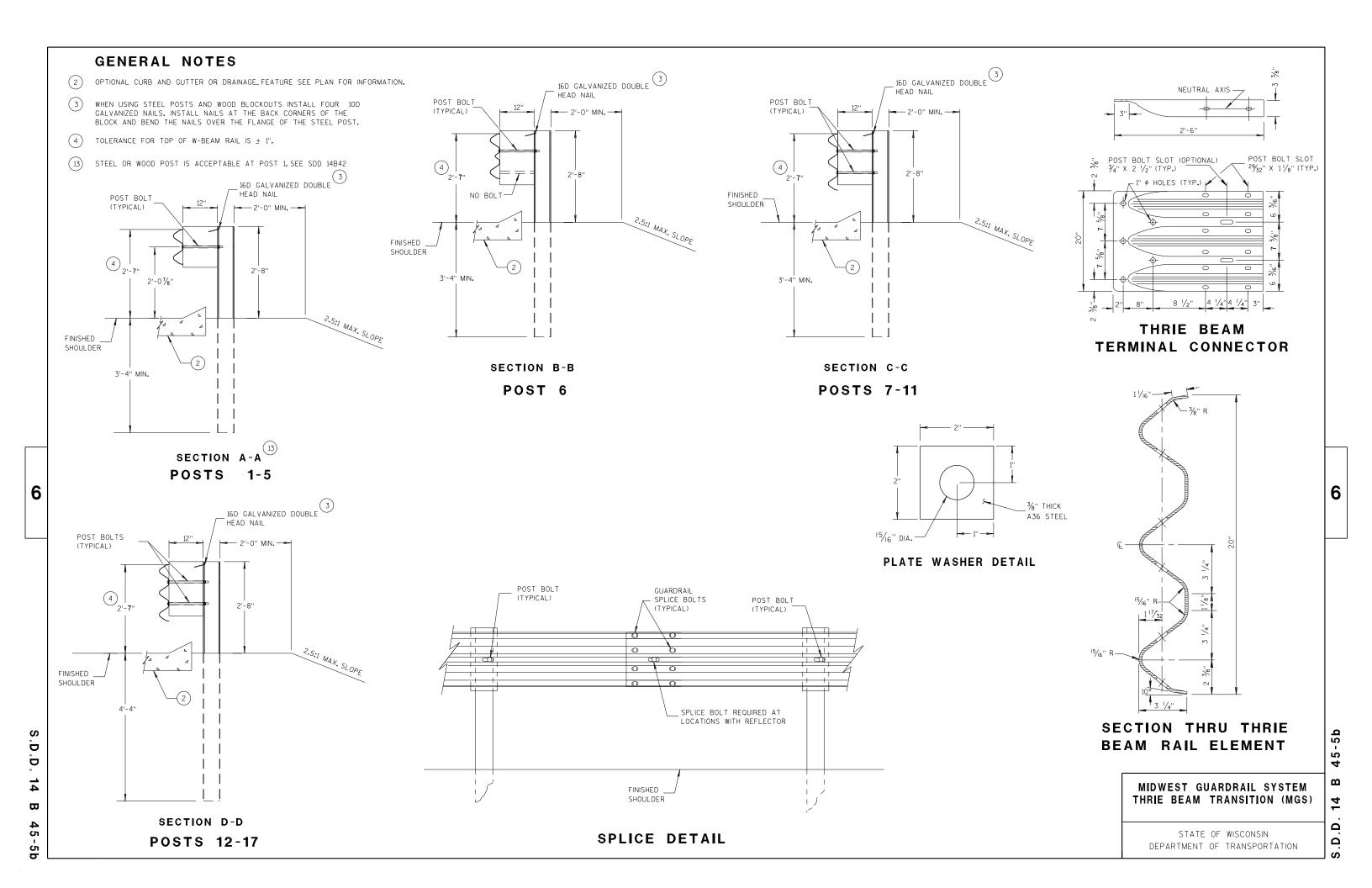
6

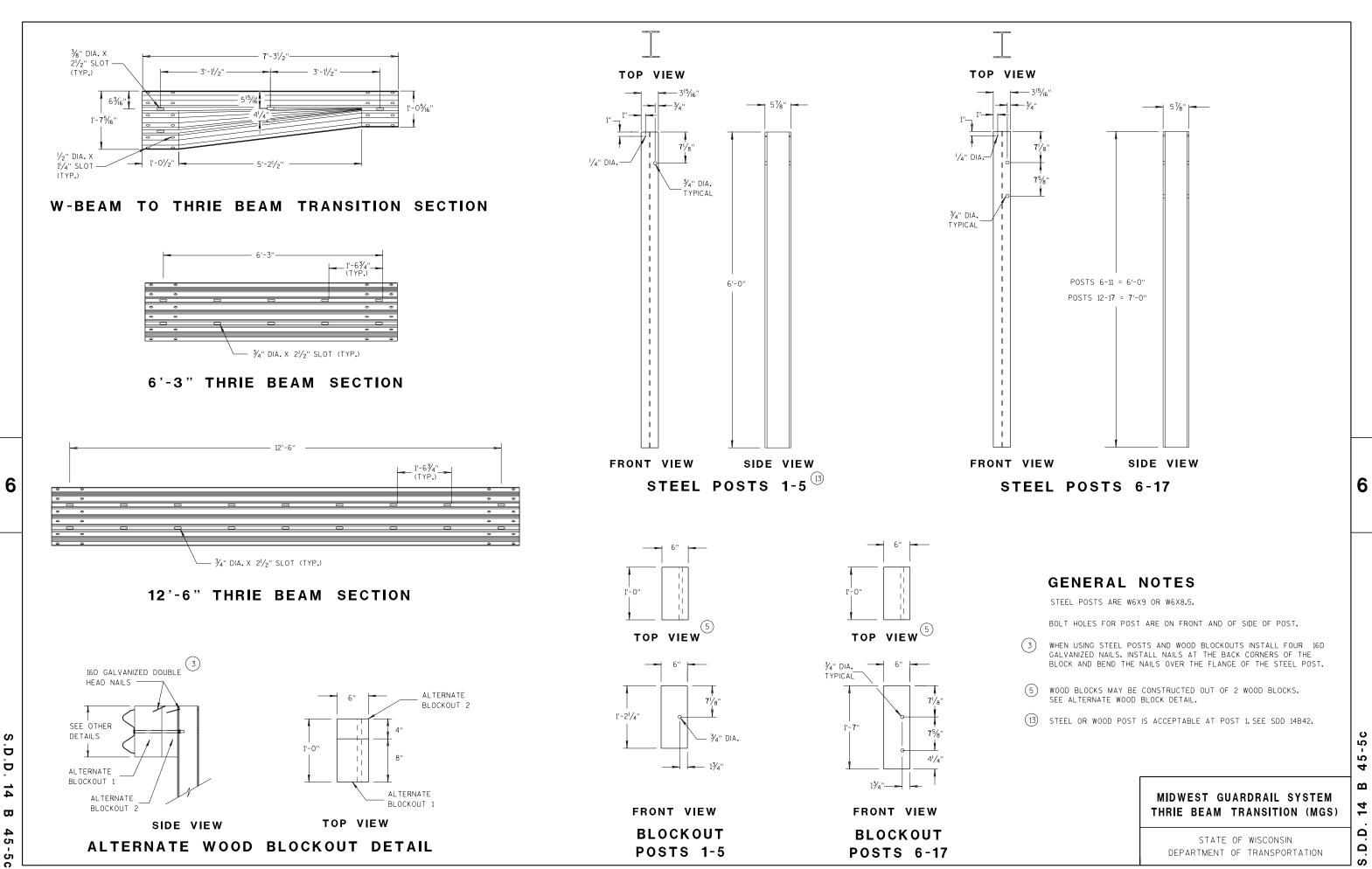
SDD 14B44

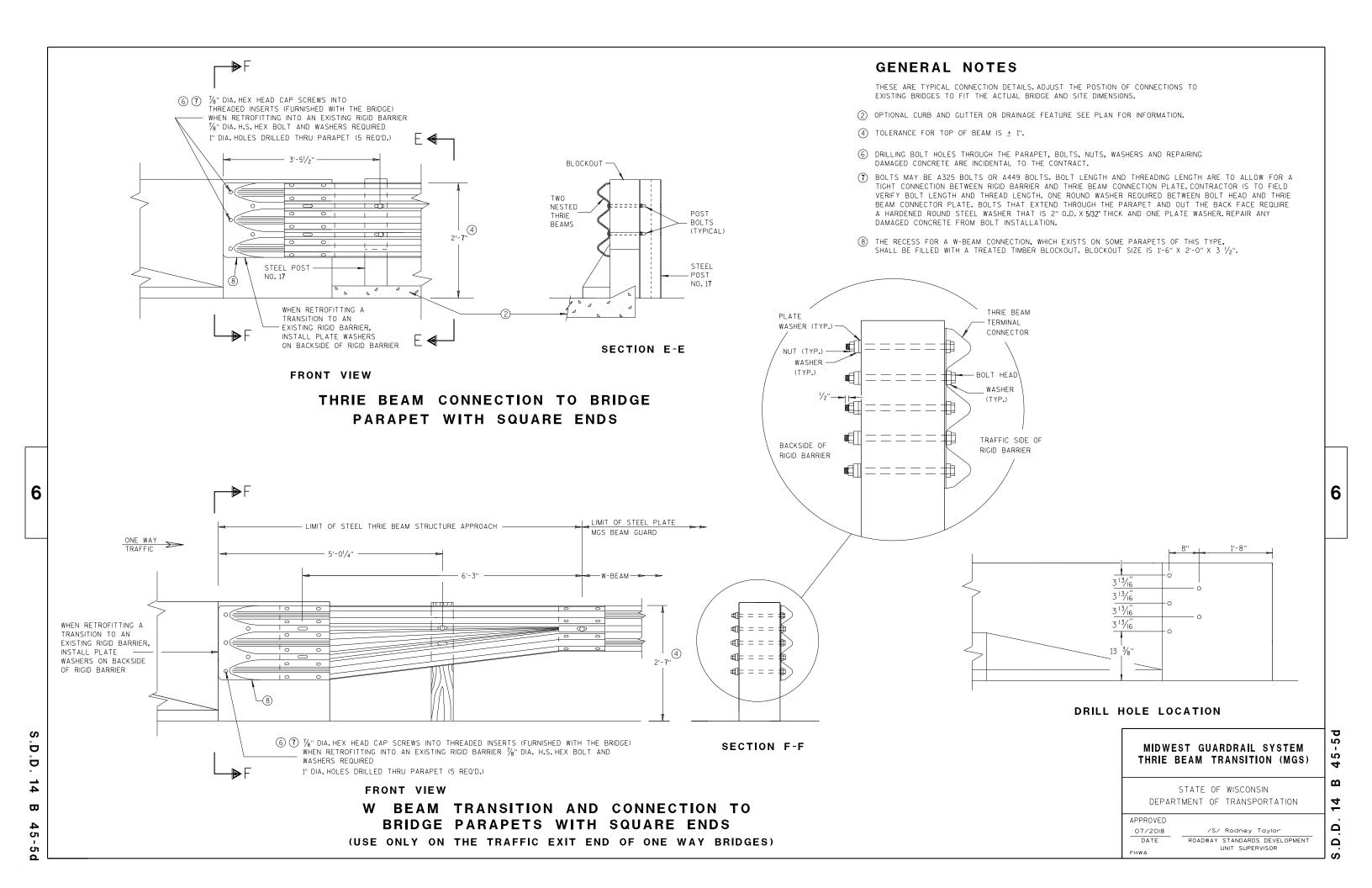
SDD 14B44 - 04



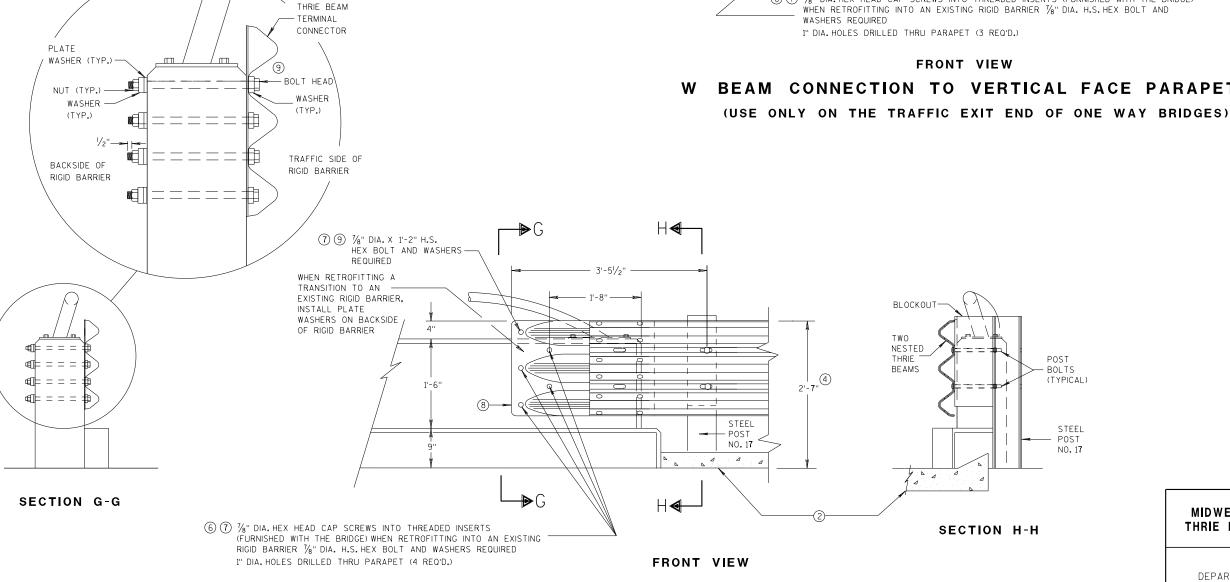








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

LIMIT OF STEEL PLATE 7 7/8" DIA. X 1'-2" H.S. MGS BEAM GUARD HEX BOLT AND WASHERS REQUIRED 5'-0 1/4" ONE WAY
TRAFFIC WHEN RETROFITTING A TRANSITION TO AN EXISTING RIGID BARRIER, INSTALL 9 PLATE WASHERS ON BACKSIDE OF RIGID BARRIER W BEAM TERMINAL 8 CONNECTOR (4) 2'-7' 6 7 %" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER 1/8" DIA. H.S. HEX BOLT AND

BEAM CONNECTION TO VERTICAL FACE PARAPET

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

45

Ω

14

Δ

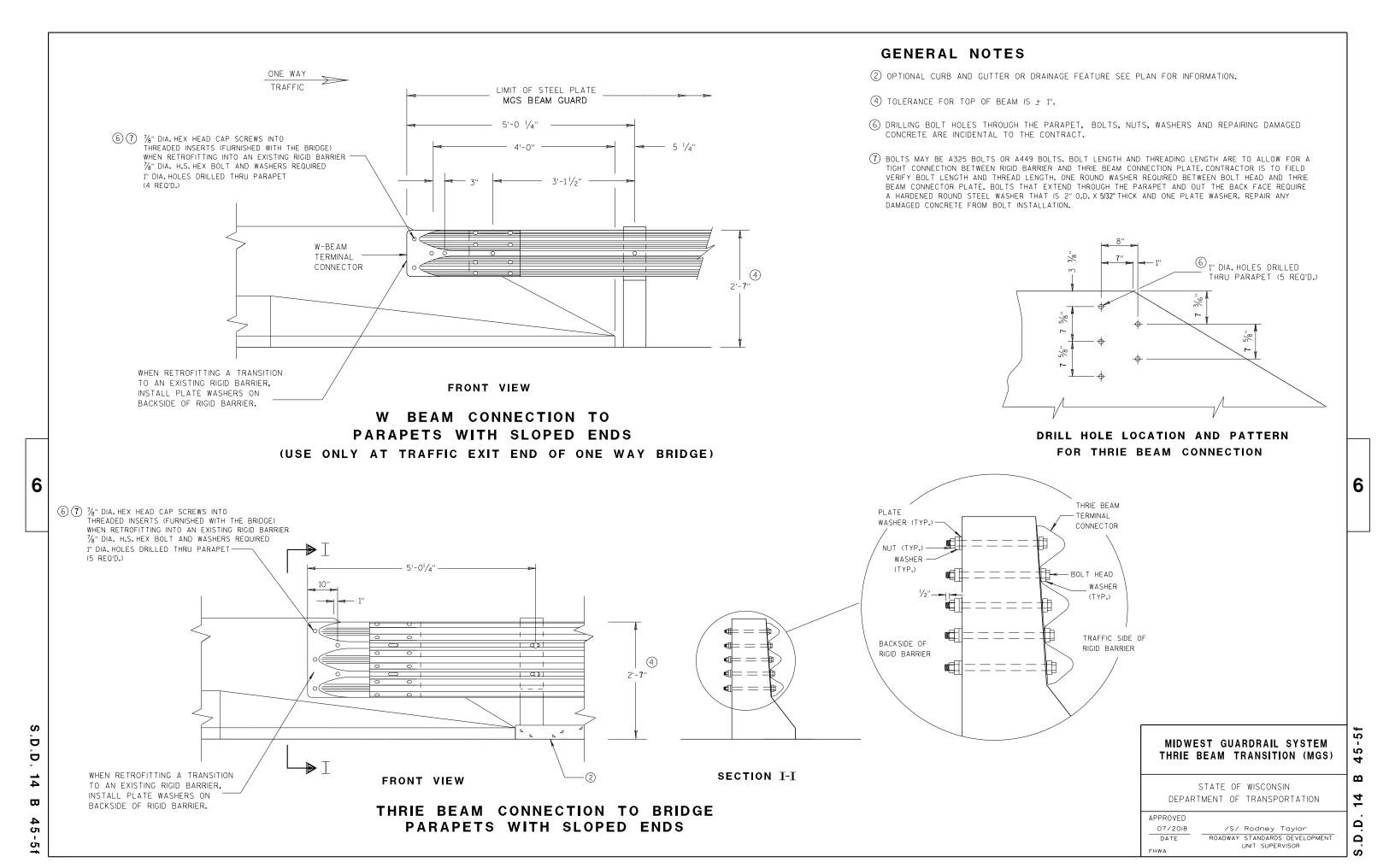
Δ

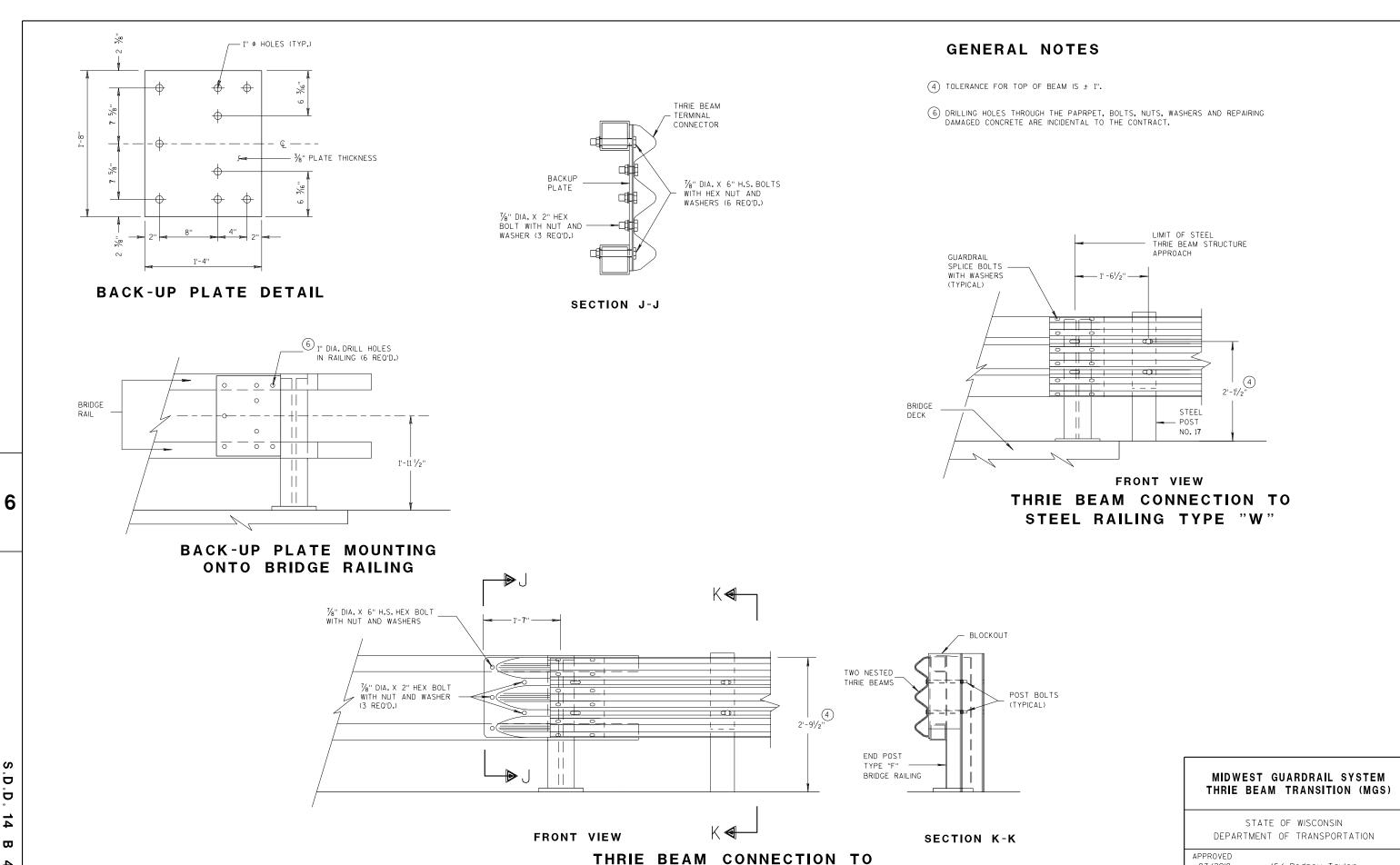
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor 07/2018 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

D D ₿ G





TUBULAR RAILING TYPE "F"

D

D 14

₩

45

g

5 Ŋ $\mathbf{\omega}$ 4 Ω Ω

07/2018

DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

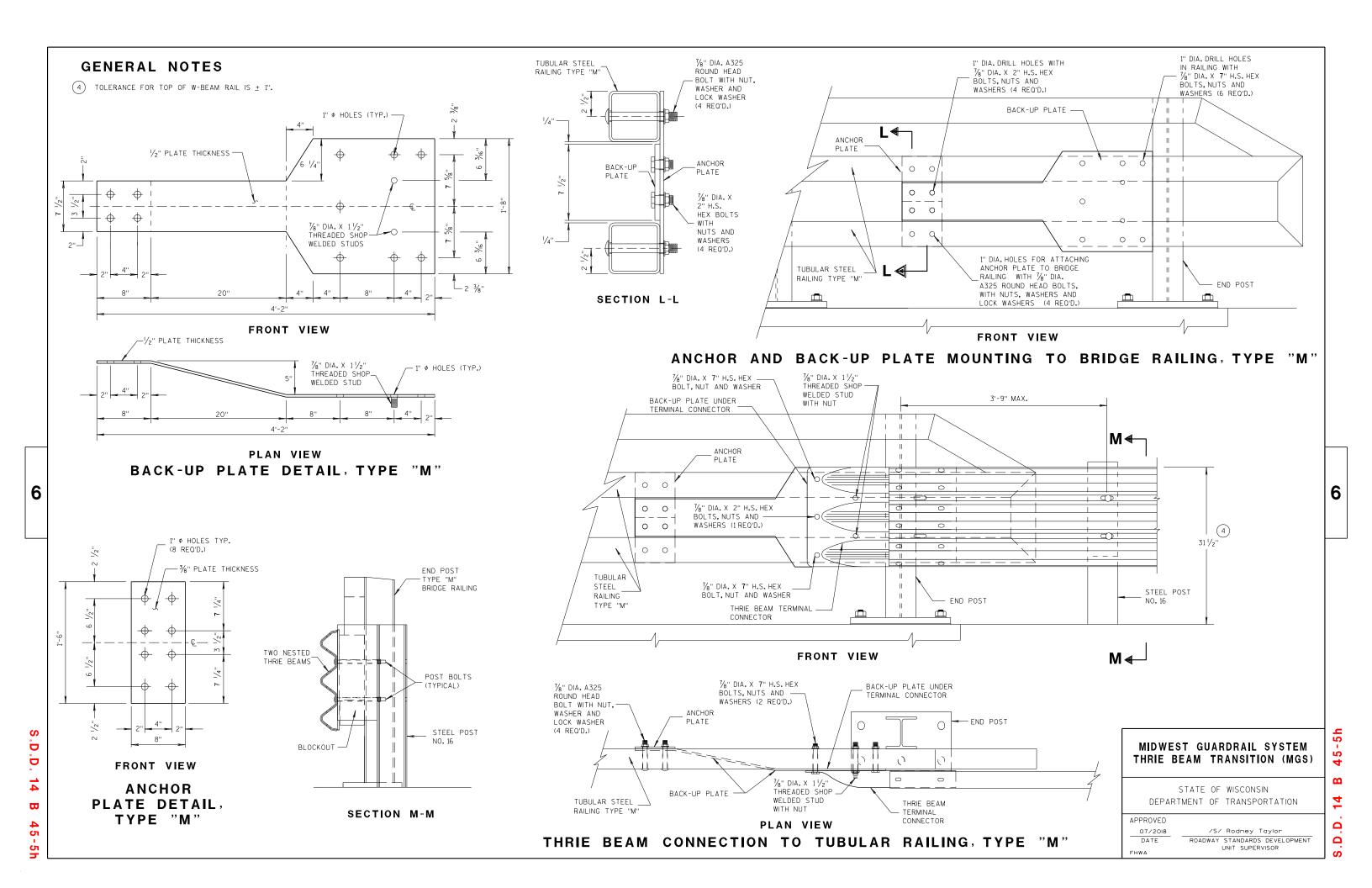


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)							
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS			
P1	1	в₫	20" × 20"	3/16"			
P2	1	B₽€	20" × 20" × 28%6"	3/16"			
Р3	1	B _ CD	39" × 35/8" × 20" × 195/6"	3/16"			
S1	4	B₽	187/6" × 35/8" × 183/4"	1/4"			
S2	1		$10^{1}/_{4}$ " × $2\frac{7}{16}$ " × $10\frac{3}{6}$ " × $1\frac{7}{2}$ "	1/4"			
S3	1	B CD	3" × 1½6" × 3½" × ½"	1/4"			
S4	1	в	61/8" × 27/16"	1/4"			
S5	1	в∟	6½" × ½'6"	1/4"			
S6	1	в△	7¾" × 1¾"	1/4"			
S 7	1	A D C	2%6" × 6" × 35%" × 57%"	1/4"			
S8	1	ABC	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"			
S9	1	C B	6½6" × 6¾6" × 1¾32"	1/4"			
S10	1	A B C	11/8" × 91/8" × 35/8" × 911/16"	1/4"			
S11	1	CAB	8½" × 8¾" × 1 ¹ ¾6"	1/4"			

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

GENERAL NOTES COVER PLATE PANELS ARE 3/16" THICK. ALL STIFFENERS ARE 1/4" THICK.

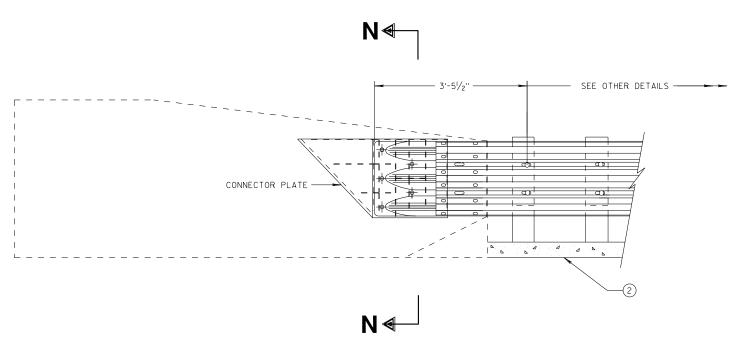
CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE

/S/ Rodney Taylor 7/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

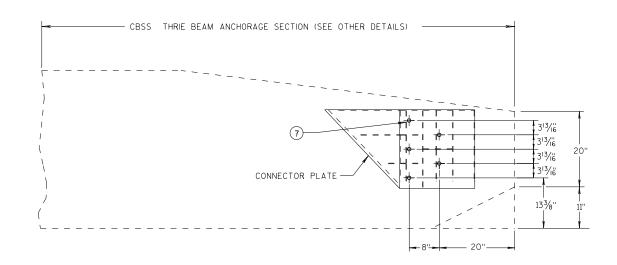
٦

6

6



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

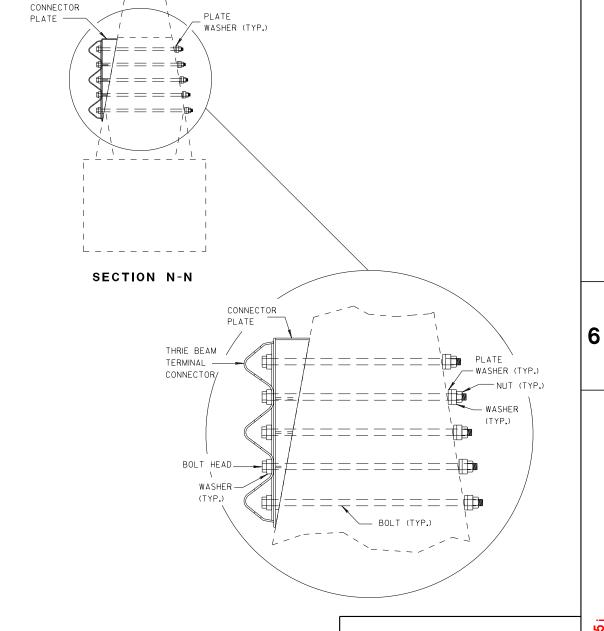


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

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

- 2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- ONNECTION BETWEEN RIGID BARRIER AND THREAD THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018

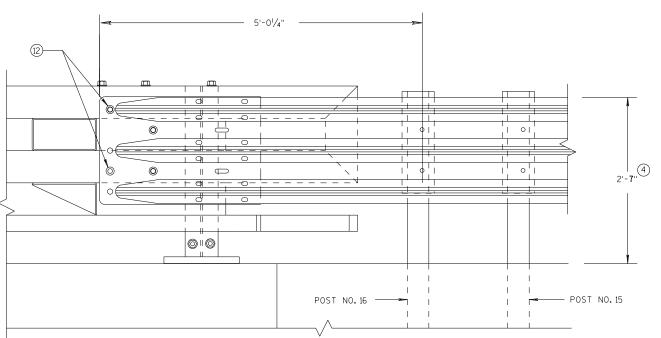
DATE

ROADW

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

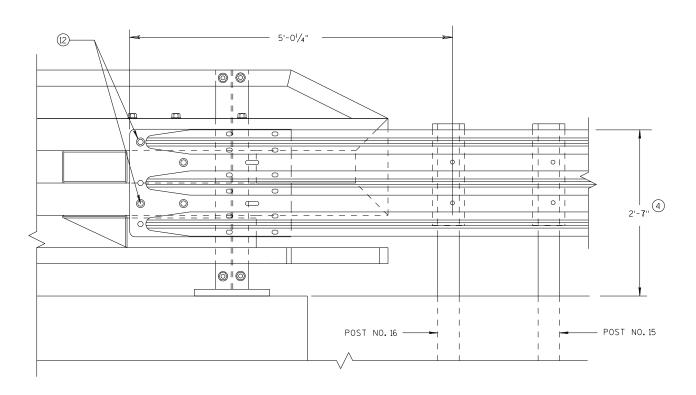
OPMENT O

5



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

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

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

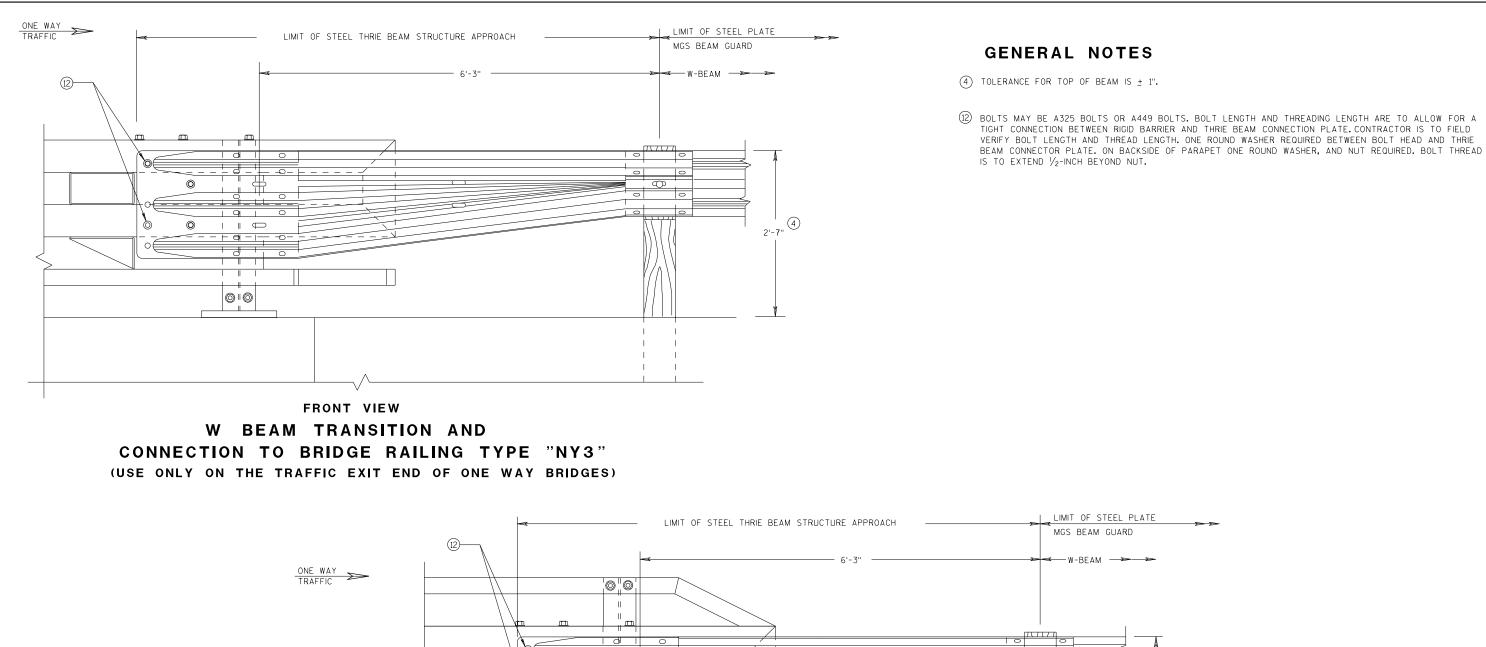
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

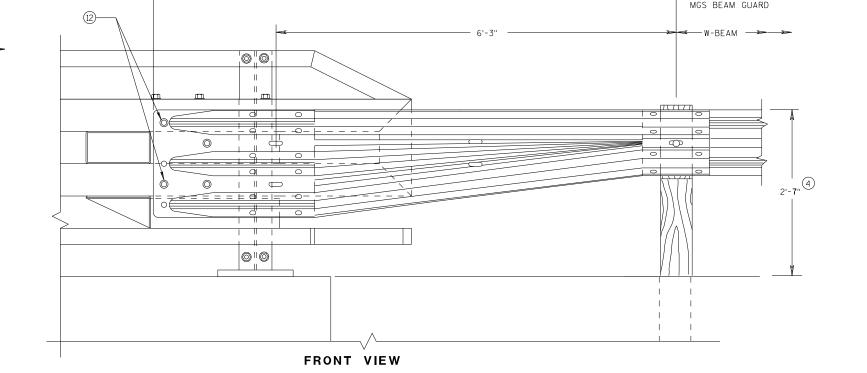
APPROVED

/S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

6

45-





W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4" (USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 /S/ Rodney Taylor

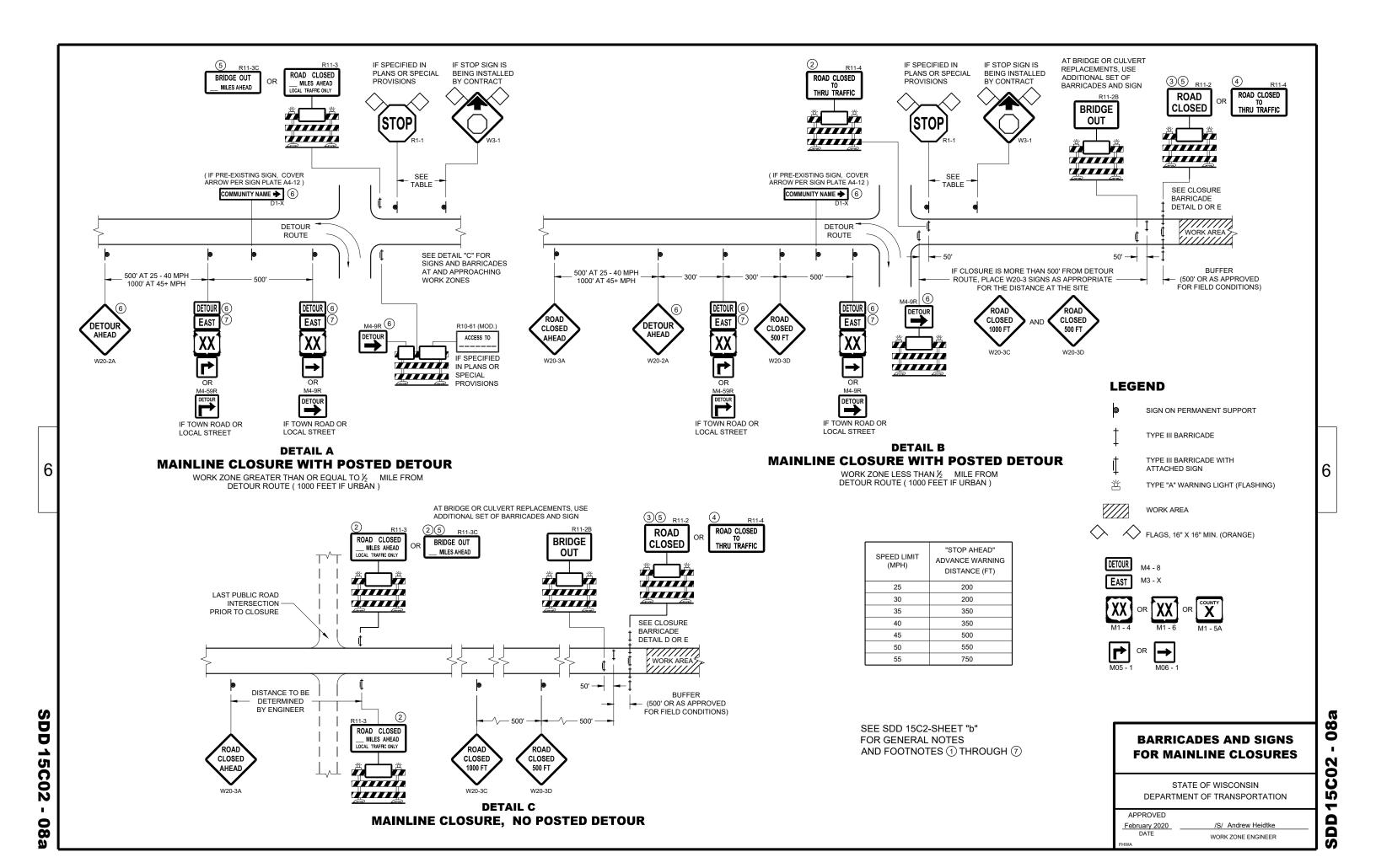
DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

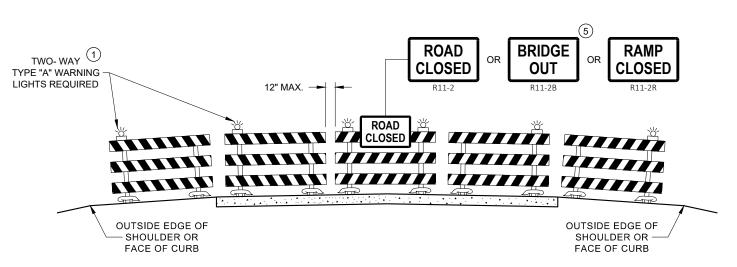
S.D.D. 14 B 45-5

, 14 E

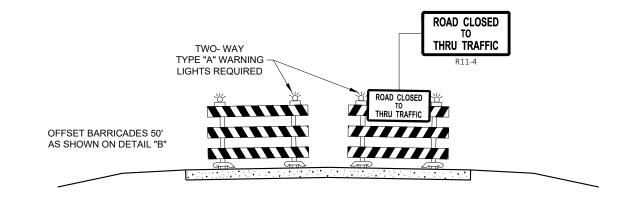
6

- O.O.





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

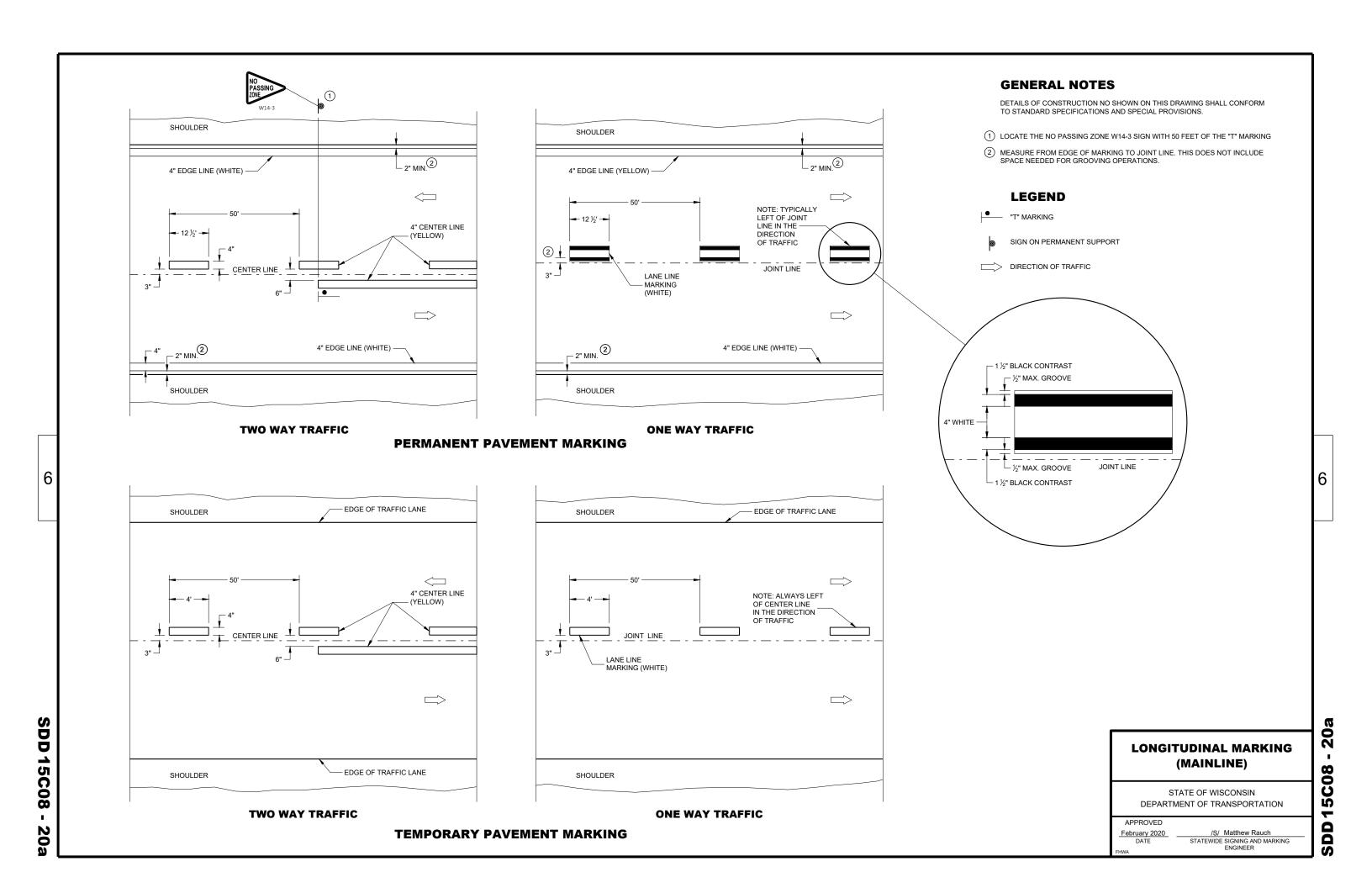
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

02 - 08b

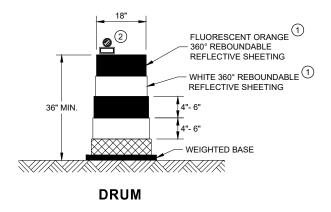
Ŋ

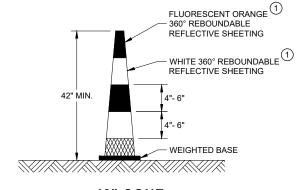




GENERAL NOTES

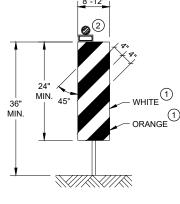
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





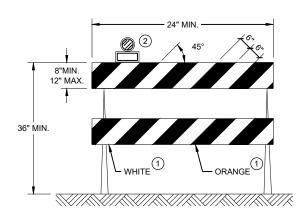
42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS



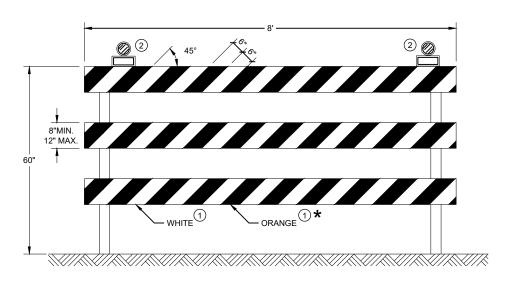
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 07

Ŋ

SDD

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	



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	MENTS	NUMBER OF	
L	E	WOOD POSTS 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

D D 15 D ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω

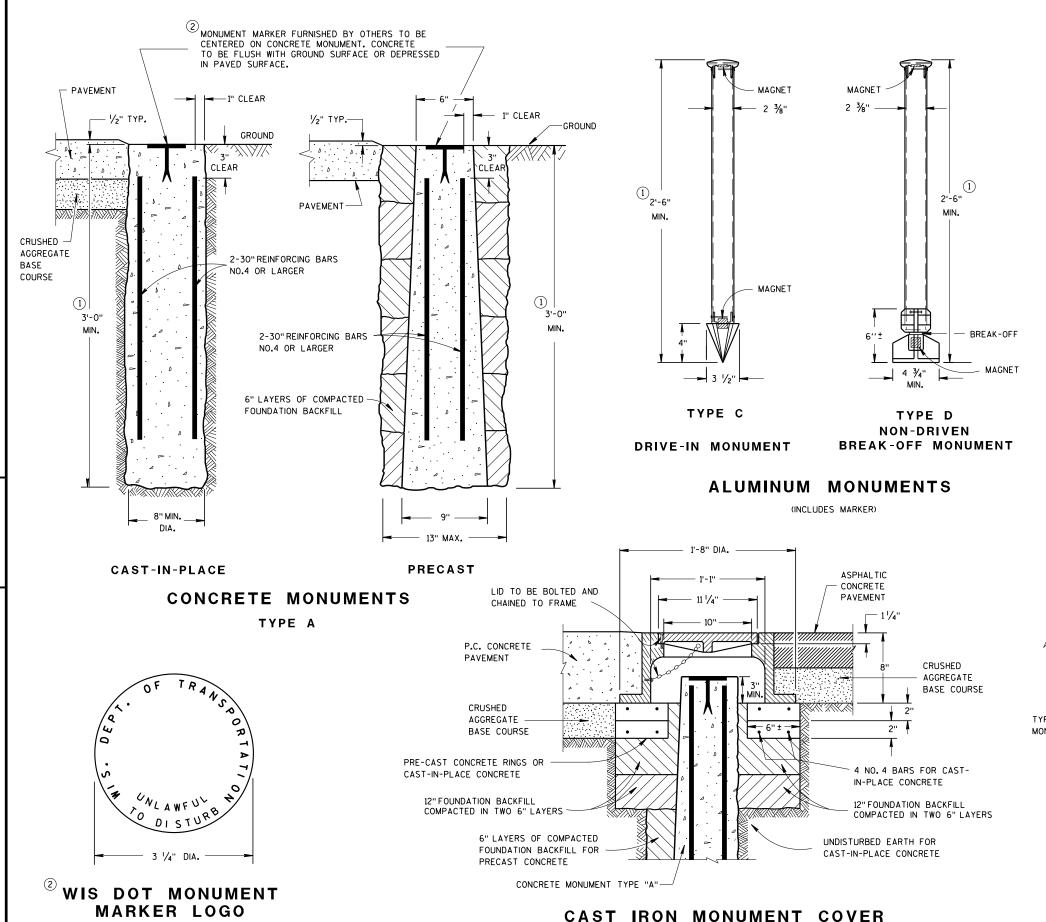
Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE



(APPROXIMATE WEIGHT 95 LBS)

Ö D

FOR TYPES "A", "C", & "D"

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

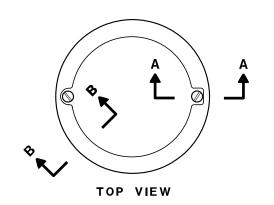
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

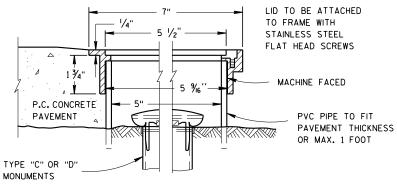
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

- (1) MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.
- (2) AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.





SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS) (FOR CONCRETE PAVEMENT ONLY)

SECTION B-B

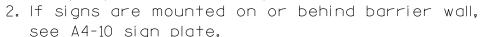
LANDMARK REFERENCE **MONUMENTS AND COVERS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

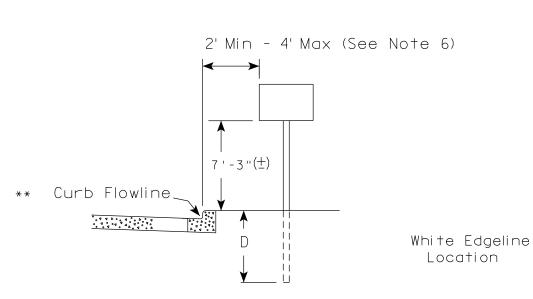
March 2018 /S/ Raymond A. Kumapayi DATE CHIEF SURVEYING AND MAPPING ENGINEER FHWA

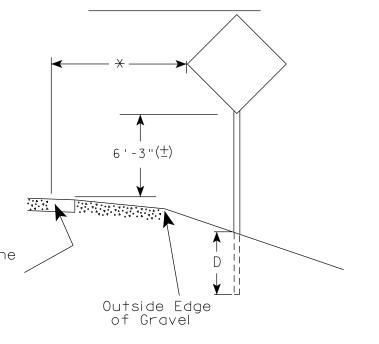
Ω



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 DIAMOND (TWO POSTS REQUIRED)					
	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

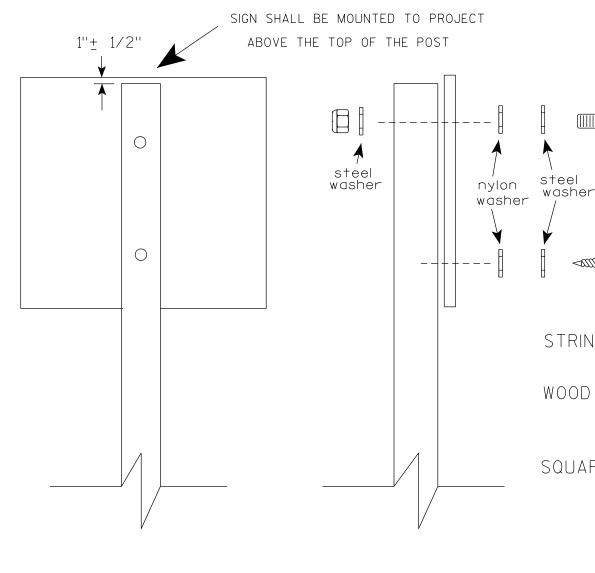
WISDOT/CADDS SHEET 42

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:



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

DATE 2/05/15

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

For State Traffic Engineer



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

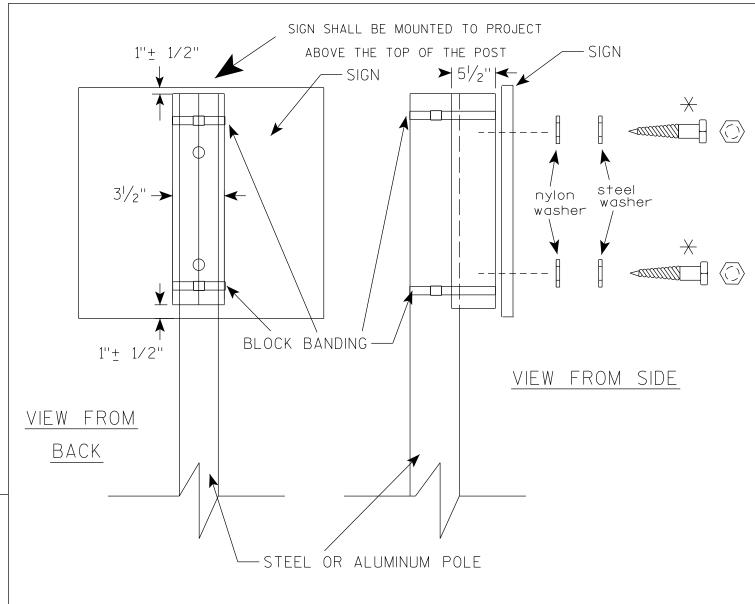
State Traffic Engineer

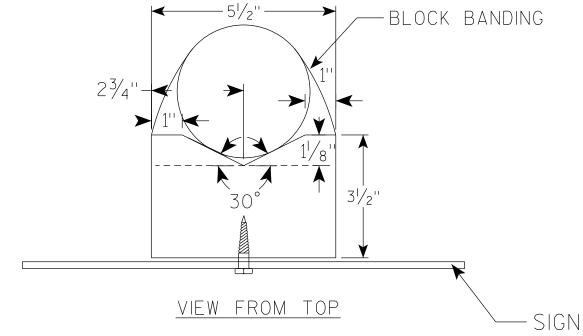
COUNTY:

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>

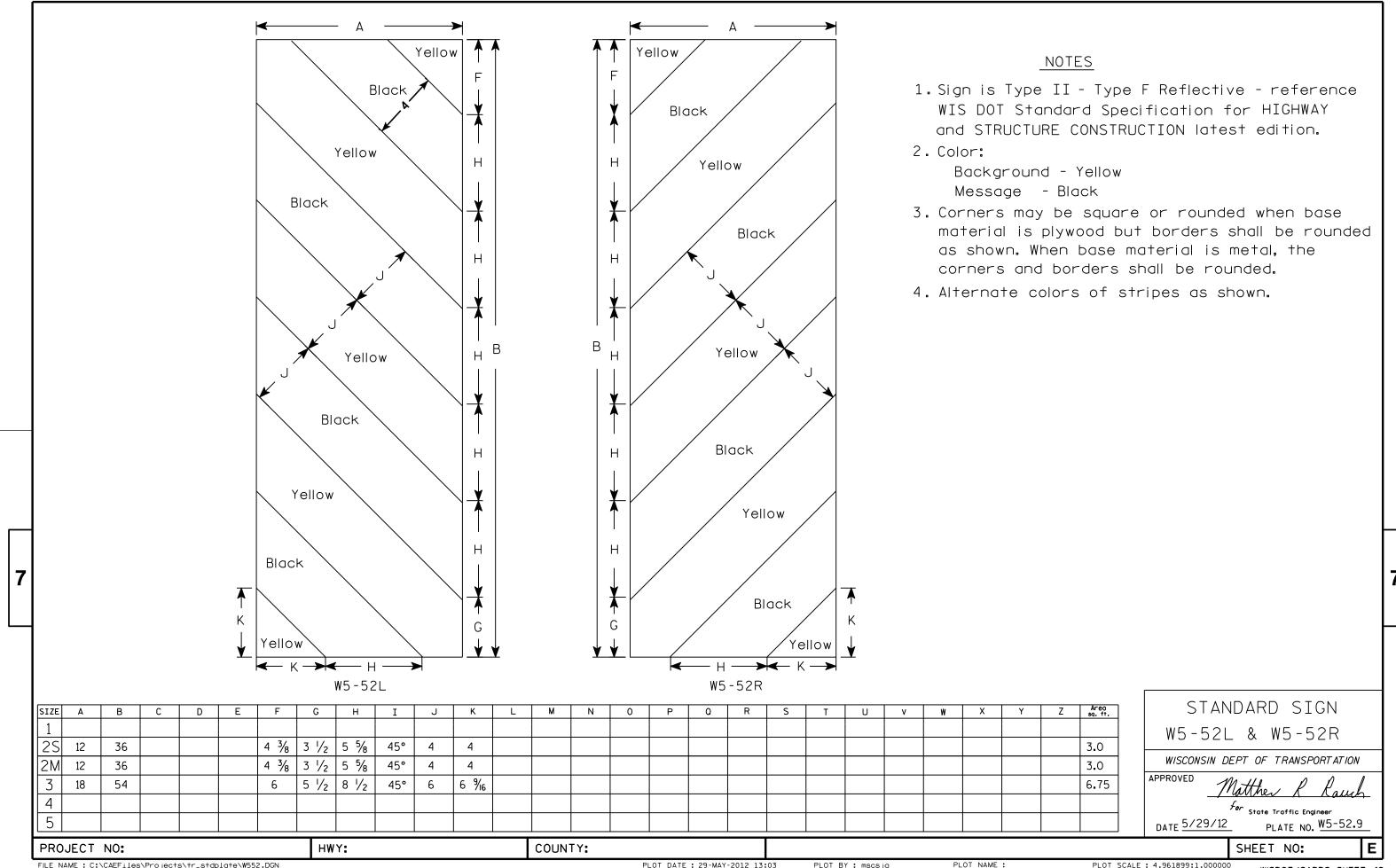
PROJECT NO:

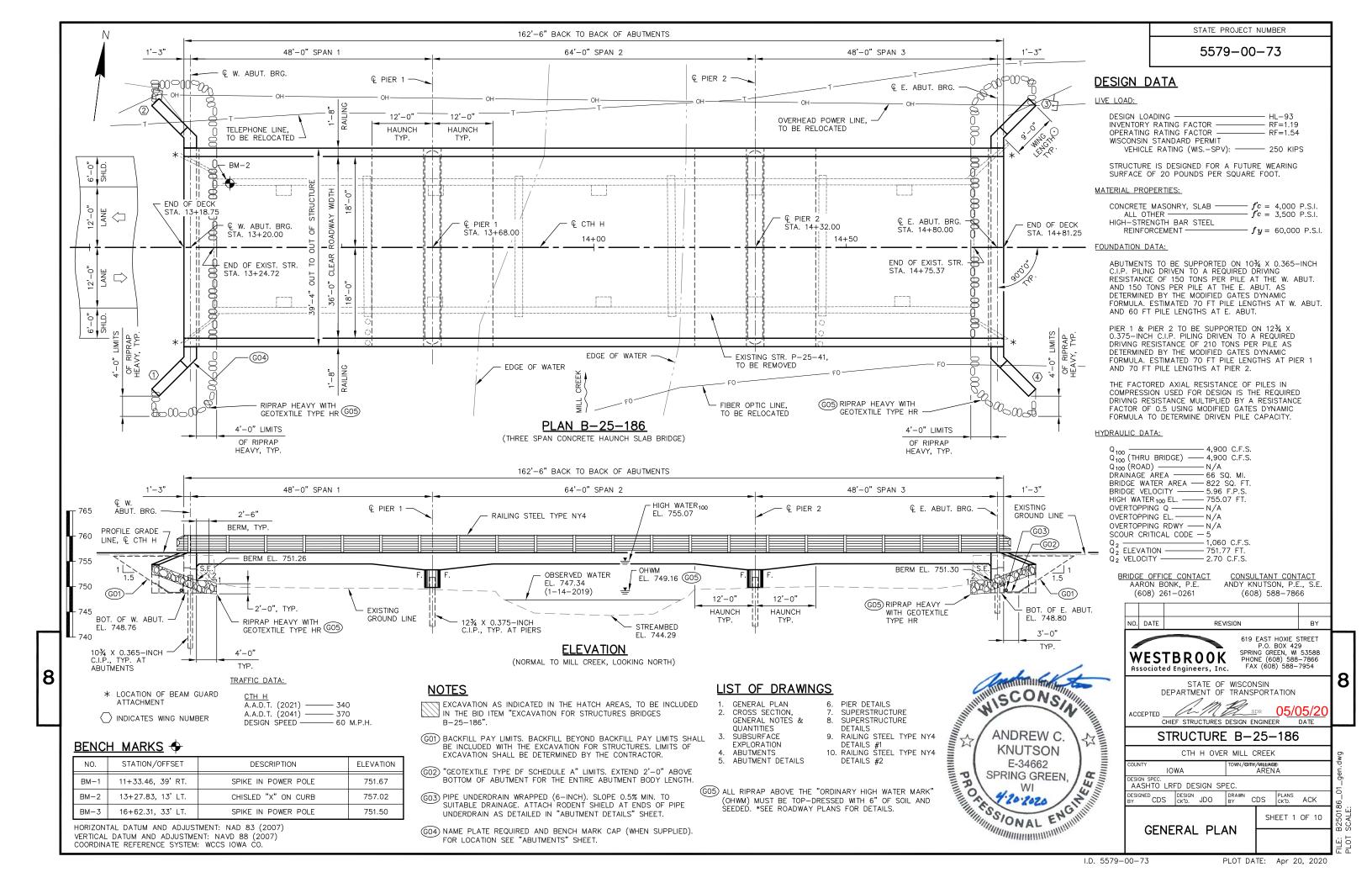
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

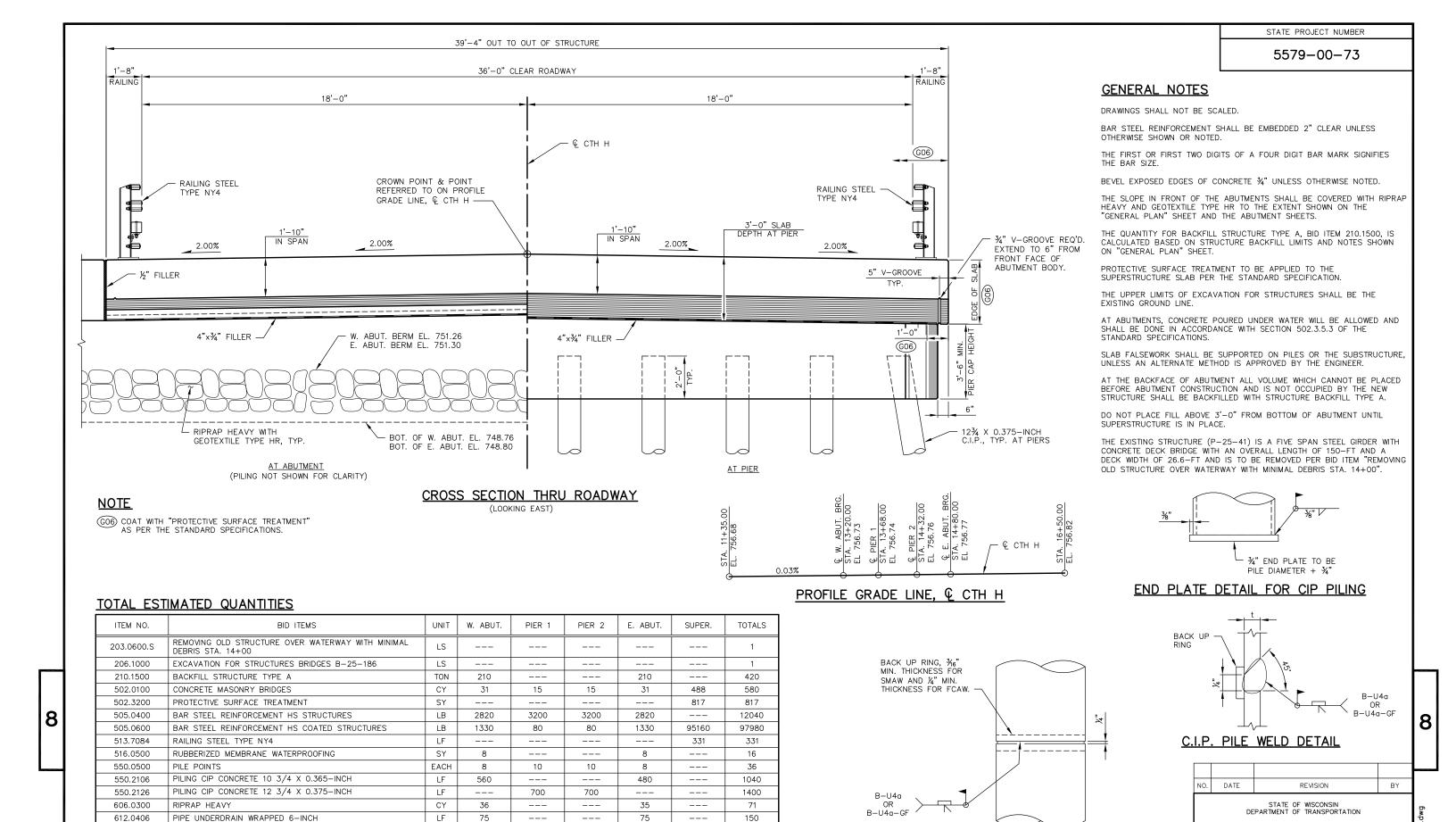
PLOT DATE: 10-JUN 2019 4:15

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42







GEOTEXTILE TYPE DF SCHEDULE A

GEOTEXTILE TYPE HR

SY

SY

SIZE

42

80

42

78

84

158

½" & ¾"

645 0111

645.0120

(NON-BID ITEM) | FILLER

CAST-IN-PLACE 'PIPE PILE'

NOTE: CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN

ACCORDANCE WITH THE STANDARD SPECIFICATION.

ACK

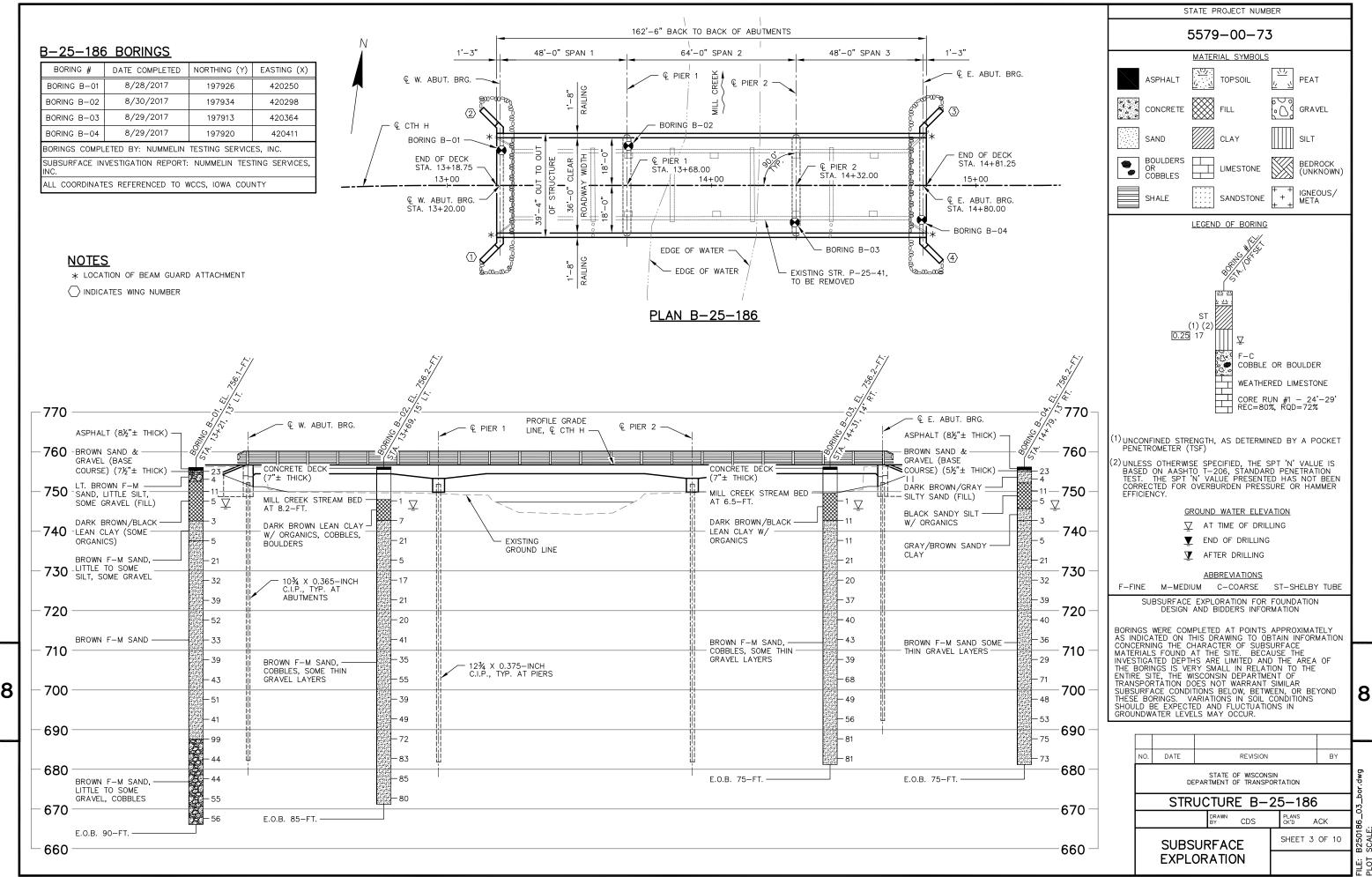
SHEET 2 OF 10

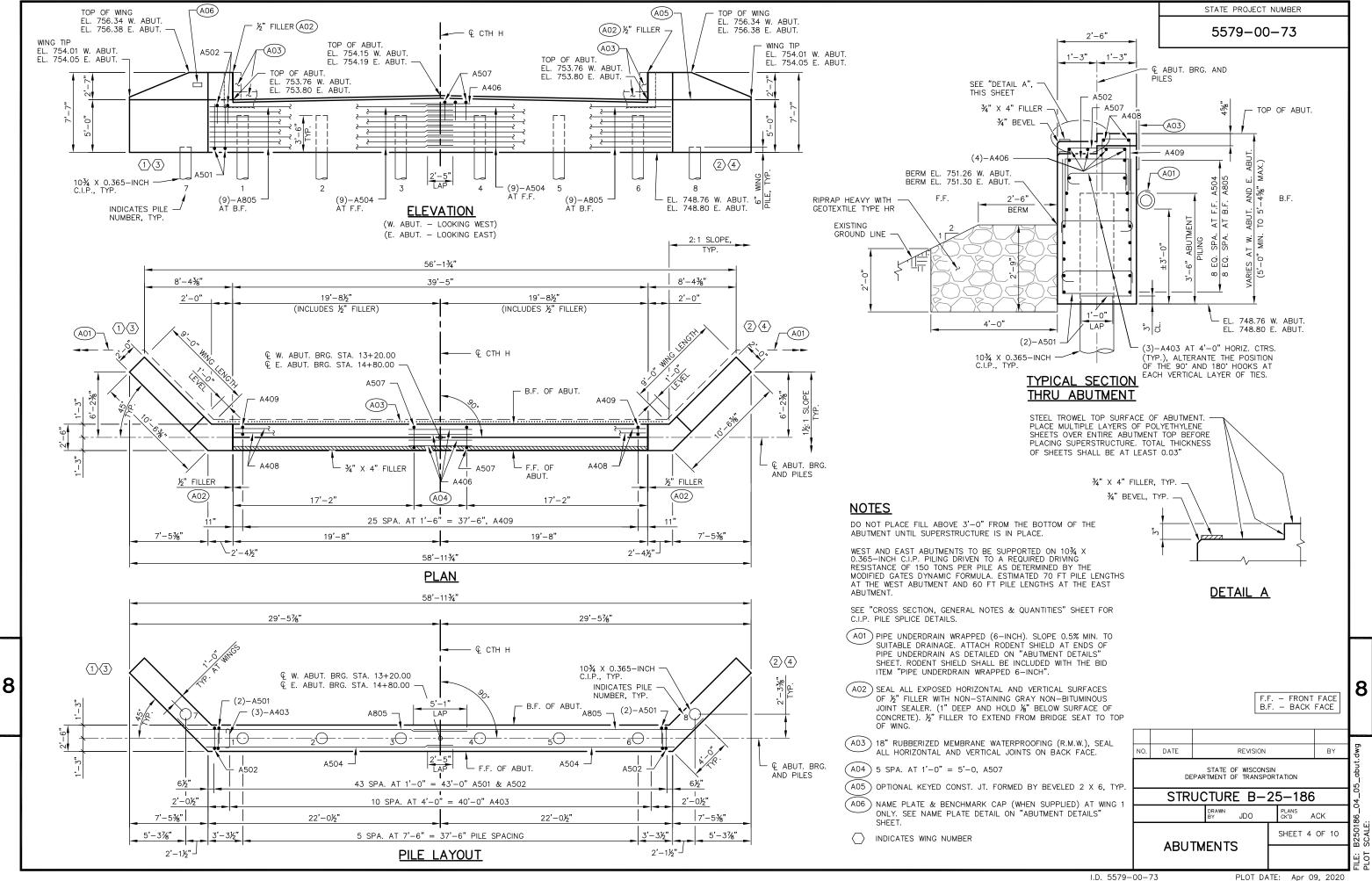
STRUCTURE B-25-186

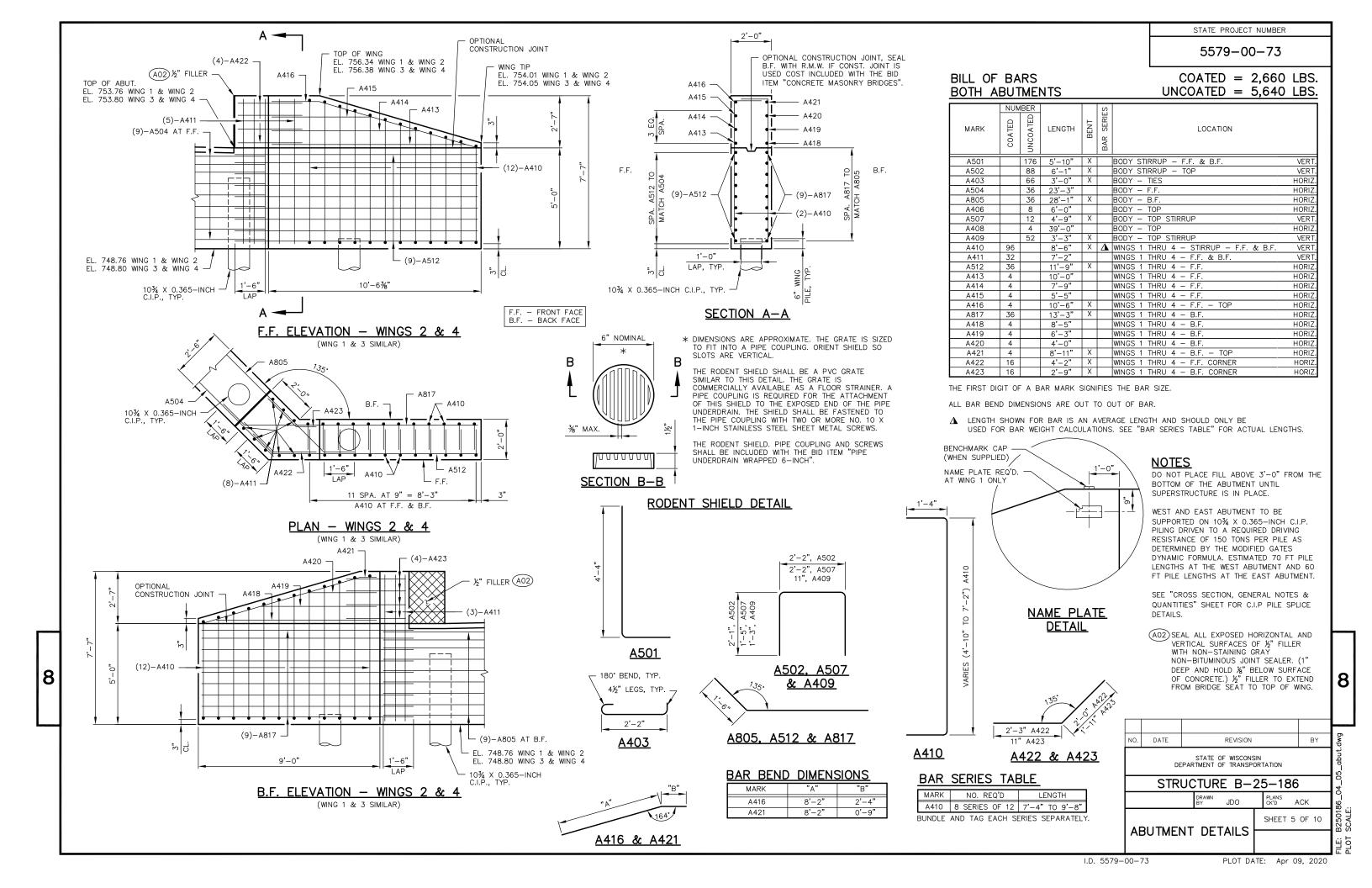
CDS

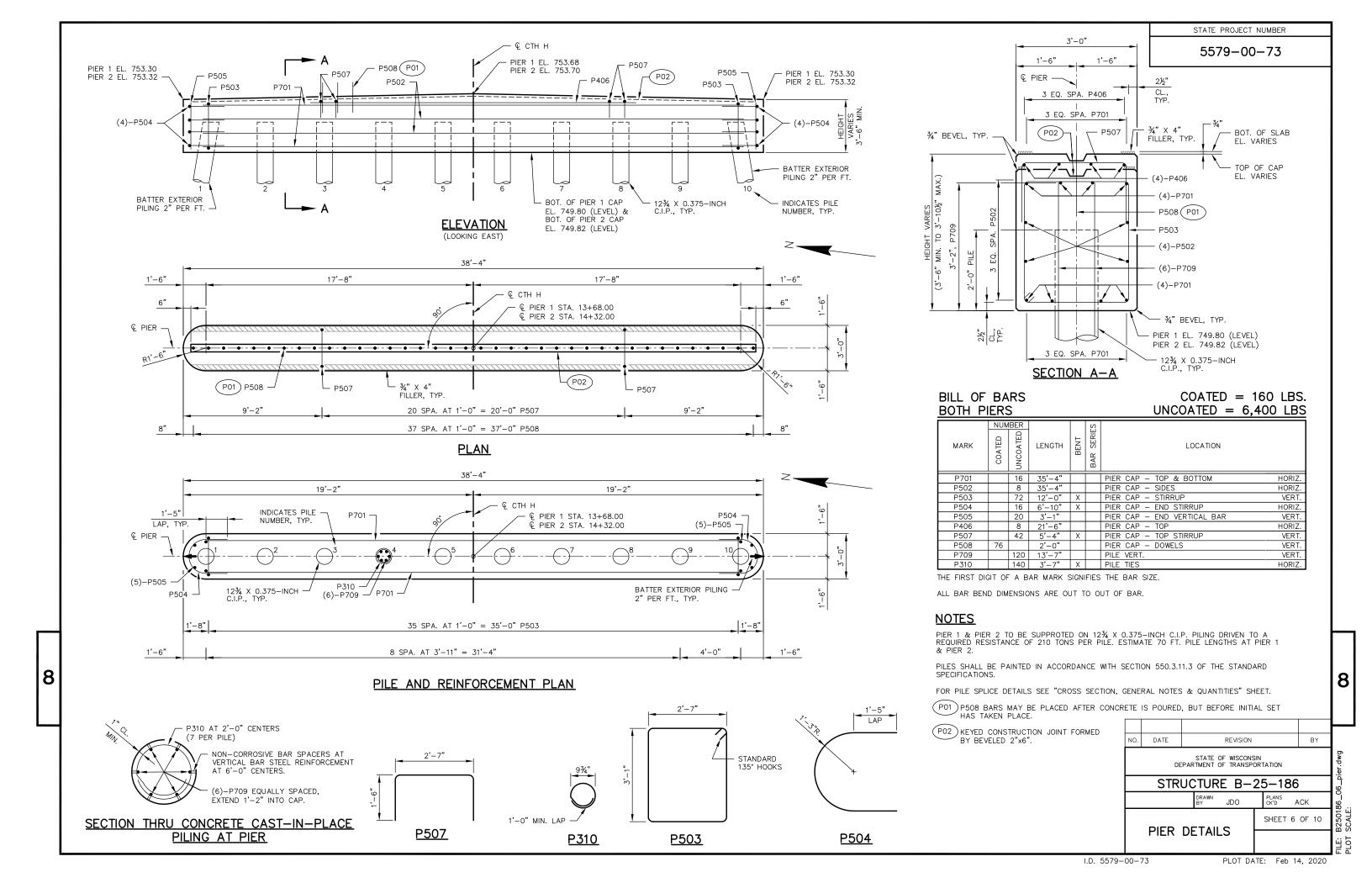
CROSS SECTION,

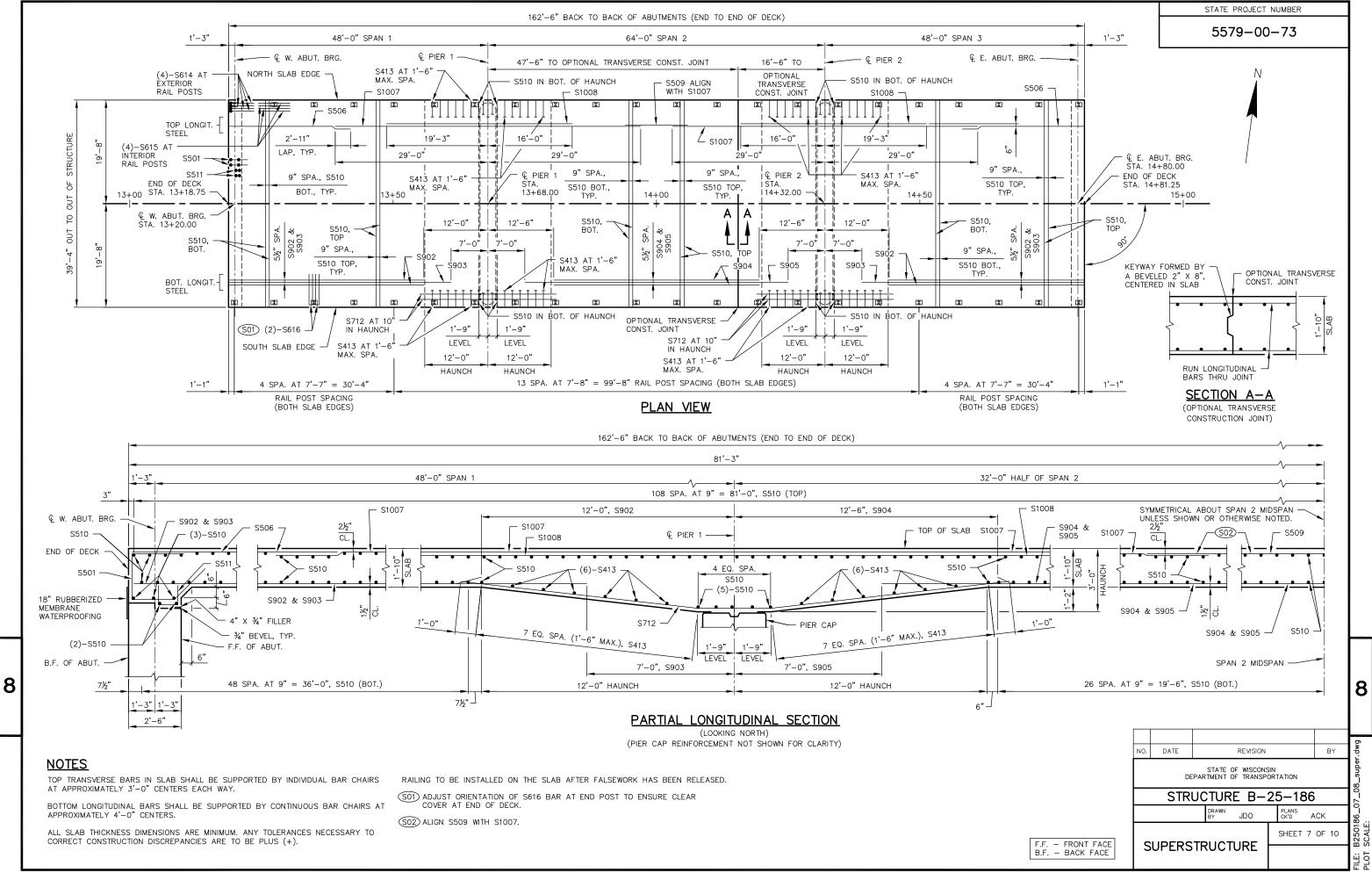
GENERAL NOTES & QUANTITIES

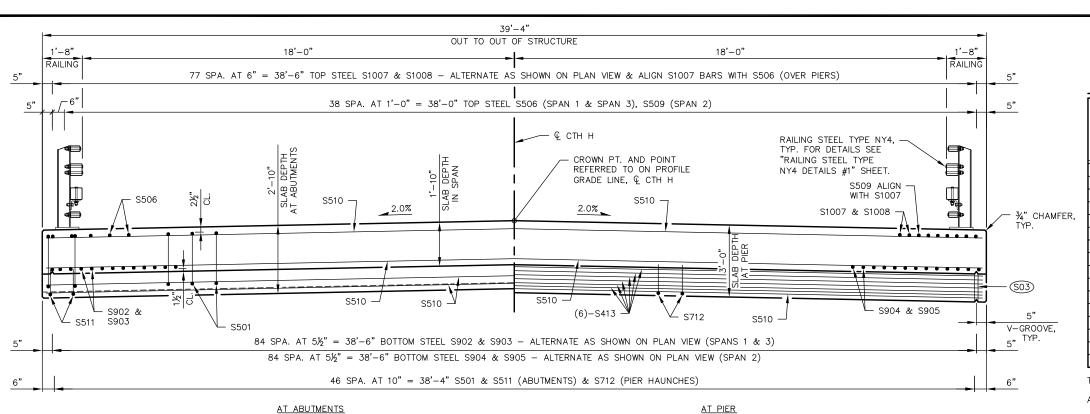












CROSS SECTION THRU ROADWAY (LOOKING EAST)

BILL OF BARS SUPERSTRUCTURE

COATED = 95,160 LBS.

STATE PROJECT NUMBER

5579-00-73

MARK	COATED Z	UNCOATED 3	LENGTH	BENT	BAR SERIES	LOCATION	
S501	94		8'-6"	X		SLAB AT ABUTMENT - TIES	LONGIT.
S902	84		37'-1"	-		SLAB - BOTTOM SPAN 1 & 3	LONGIT.
S903	86		42'-1"			SLAB - BOTTOM SPAN 1 & 3	LONGIT.
S904	42		39'-0"			SLAB - BOTTOM SPAN 2	LONGIT.
S905	43		50'-0"			SLAB - BOTTOM SPAN 2	LONGIT.
S506	80		23'-0"			SLAB - TOP SPAN 1 & 3	LONGIT.
S1007	76		58'-0"			SLAB - TOP OVER PIERS	LONGIT.
S1007	80		35'-3"			SLAB - TOP OVER PIERS	LONGIT.
S509	40		11'-10"			SLAB - TOP SPAN 2	LONGIT.
S510	392		39'-0"			SLAB - TOP & BOTTOM	TRANS.
S511	94		2'-8"	X		SLAB AT ABUTMENT	LONGIT.
S712	94		26'-2"	X		SLAB - BOTTOM IN HAUNCH	LONGIT.
S413	24		39'-0"	<u> </u>		SLAB - IN HAUNCH	TRANS.
S614	16		6'-0"	X		SLAB - TOP AT END RAIL POSTS	LONGIT.
S615	160		6'-0"			SLAB - TOP INTERIOR RAIL POSTS	LONGIT.
S616	88		12'-0"	X		SLAB - TOP AT ALL RAIL POSTS	TRANS.

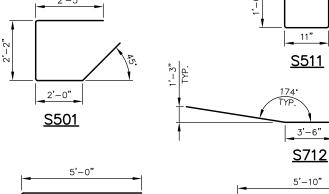
THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

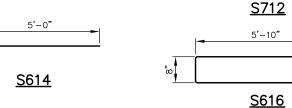
NOTES

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

SURVEY TOP OF SLAB ELEVATIONS							
	€ W. ABUT. BRG.	5/10 PT.	© PIER 1	5/10 PT.	© PIER 2	5/10 PT.	€ E. ABUT. BRG.
NORTH SLAB EDGE							
€ стн н							
SOUTH SLAB EDGE							

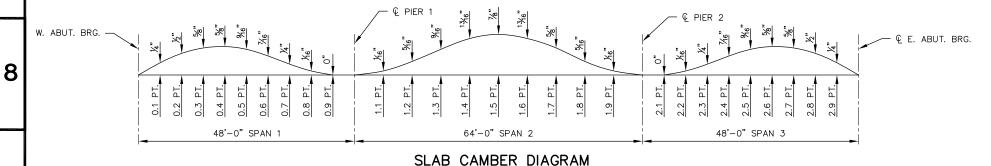
PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE © OF ABUTMENTS, © OF PIERS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.





11"

11'-3" TYP.



TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

CAMBER

FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

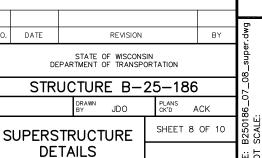
	DE
	CA
	Γ

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. AMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

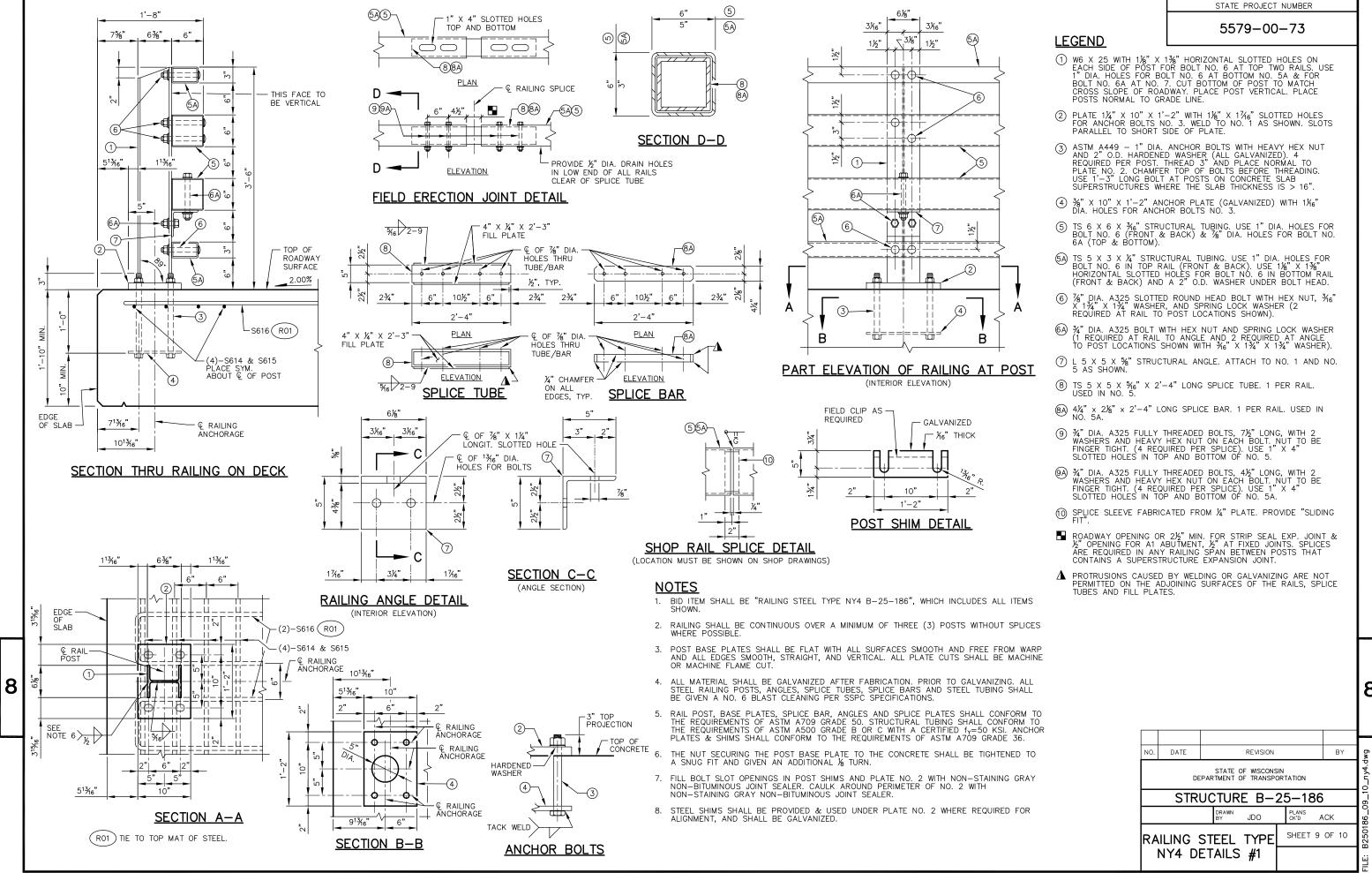
34" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

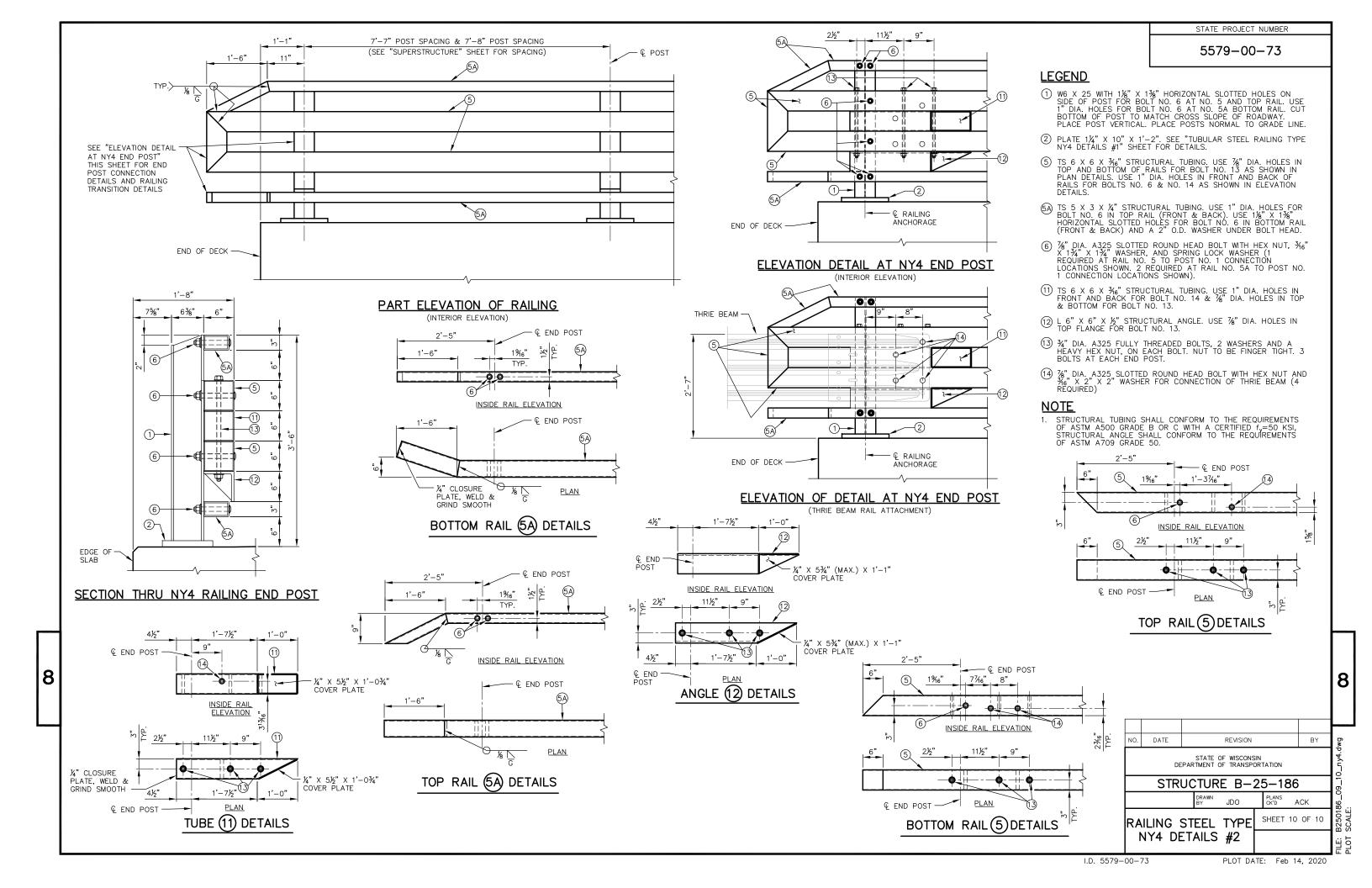
SPAN PT NORTH SLAB EDGE		€ СТН Н	SOUTH SLAB EDGE
€ W. ABUT.	756.34	756.73	756.34
0.1	756.34	756.73	756.34
0.2	756.34	756.73	756.34
0.3	756.34	756.73	756.34
0.4	756.35	756.74	756.35
0.5	756.35	756.74	756.35
0.6	756.35	756.74	756.35
0.7	756.35	756.74	756.35
0.8	756.35	756.74	756.35
0.9	756.35	756.74	756.35
© PIER 1	756.35	756.74	756.35
1.1	756.36	756.75	756.36
1.2	756.36	756.75	756.36
1.3	756.36	756.75	756.36
1.4	756.36	756.75	756.36
1.5	756.36	756.75	756.36
1.6	756.36	756.75	756.36
1.7	756.37	756.76	756.37
1.8	756.37	756.76	756.37
1.9	756.37	756.76	756.37
© PIER 2	756.37	756.76	756.37
2.1	756.37	756.76	756.37
2.2	756.37	756.76	756.37
2.3	756.37	756.76	756.37
2.4	756.38	756.77	756.38
2.5	756.38	756.77	756.38
2.6	756.38	756.77	756.38
2.7	756.38	756.77	756.38
2.8	756.38	756.77	756.38
2.9	756.38	756.77	756.38
€ E. ABUT.	756.38	756.77	756.38

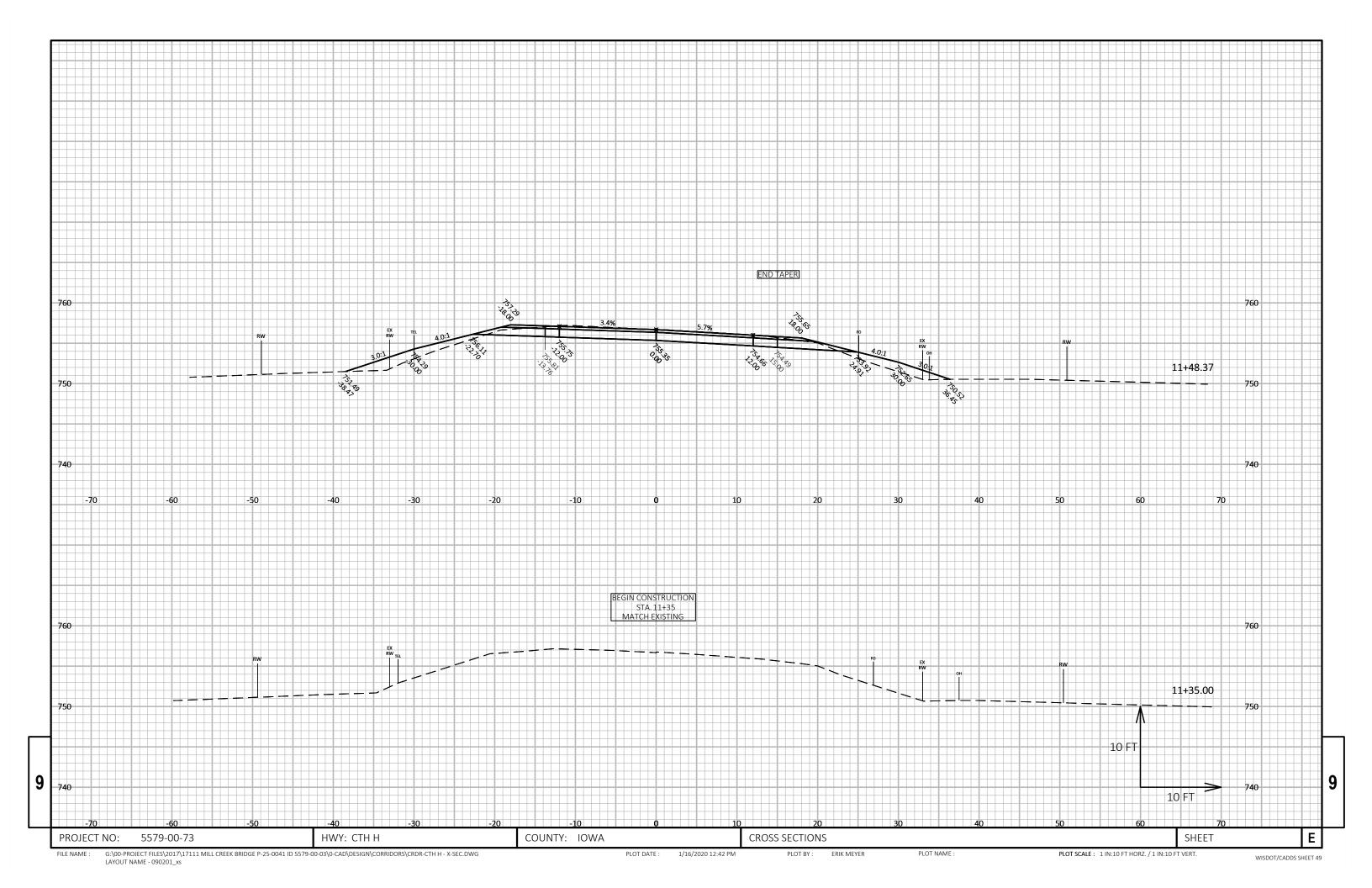
TOP OF DECK ELEVATIONS

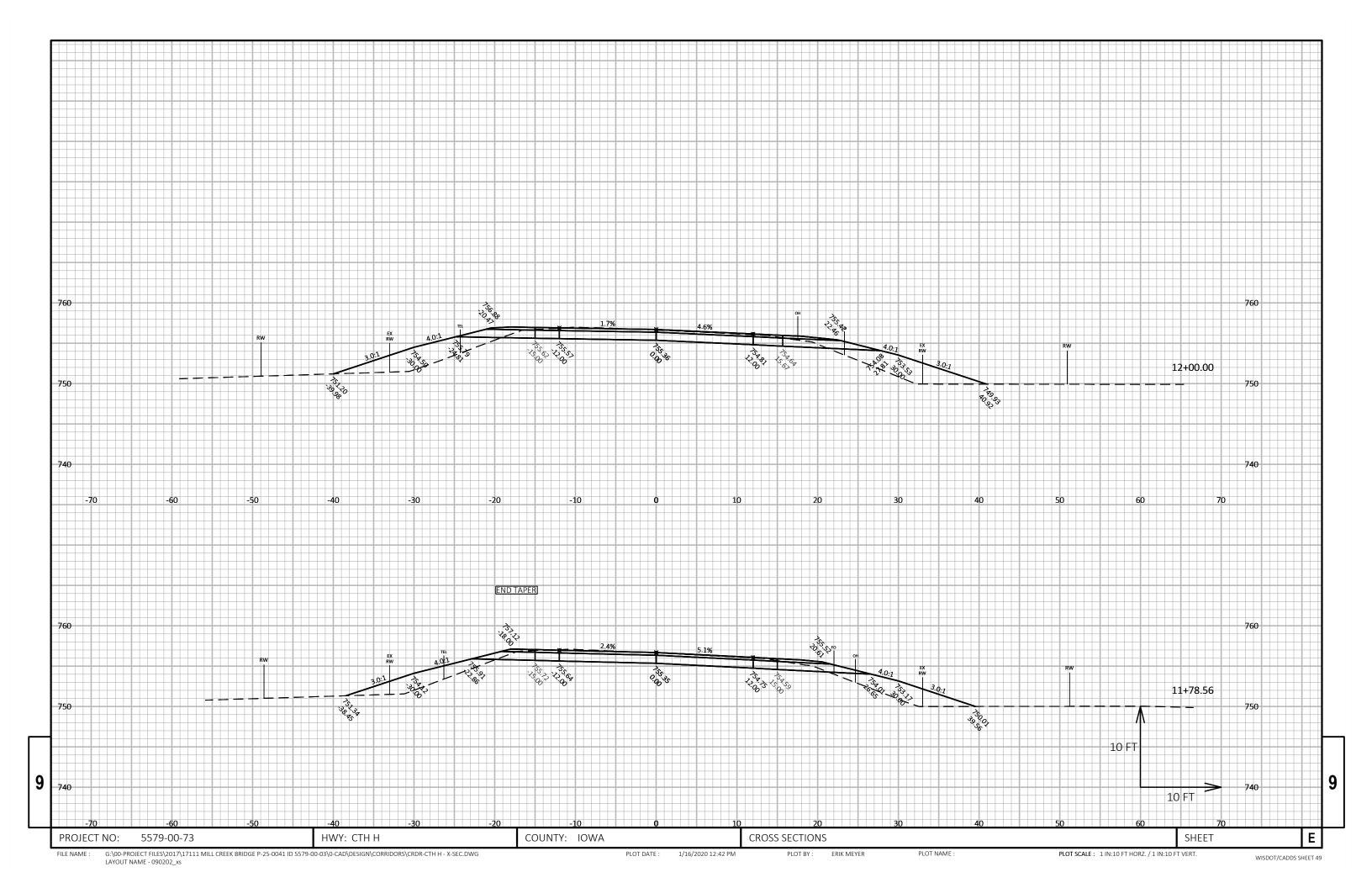


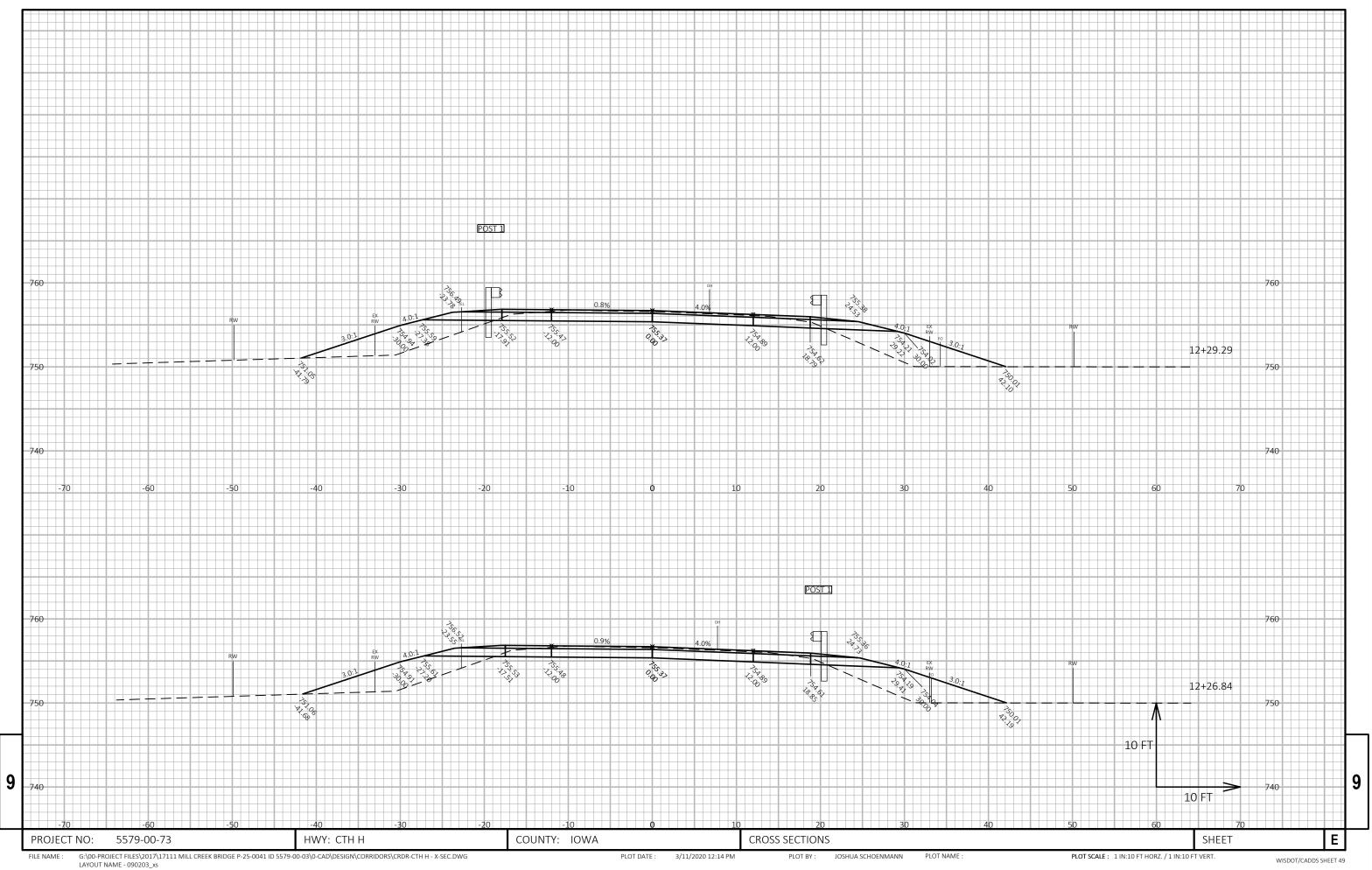
PLOT DATE: Feb 14, 2020

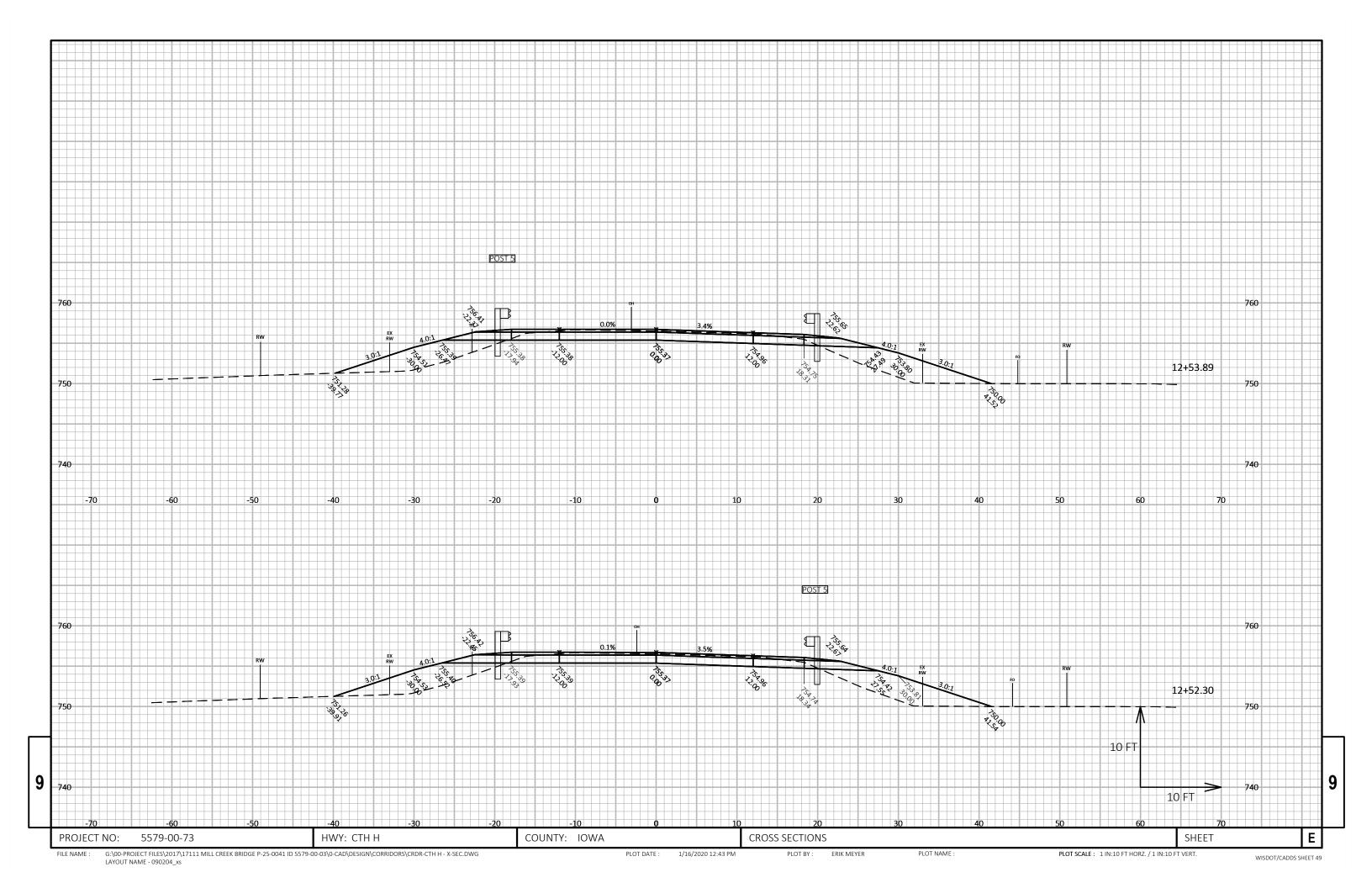


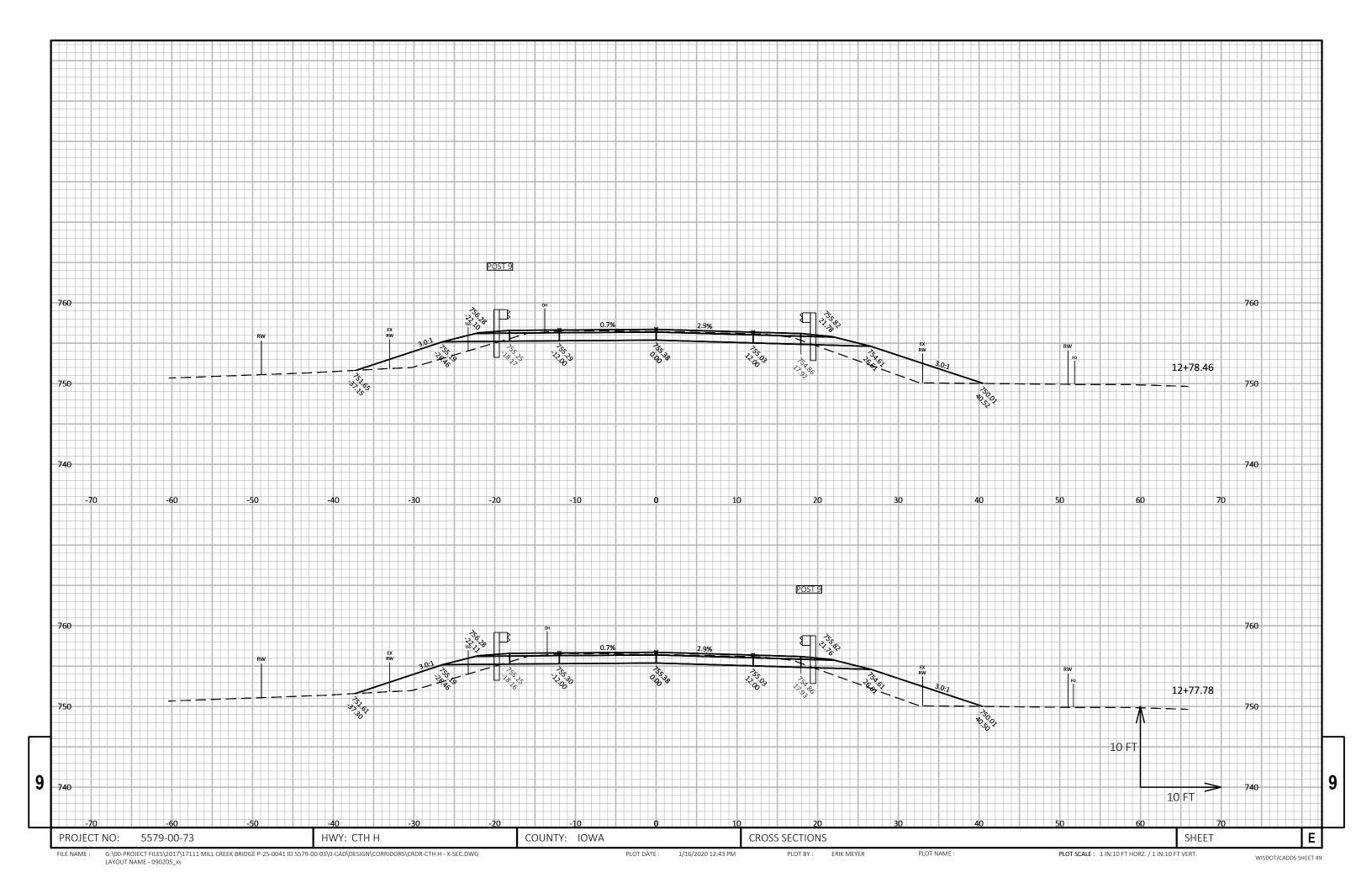


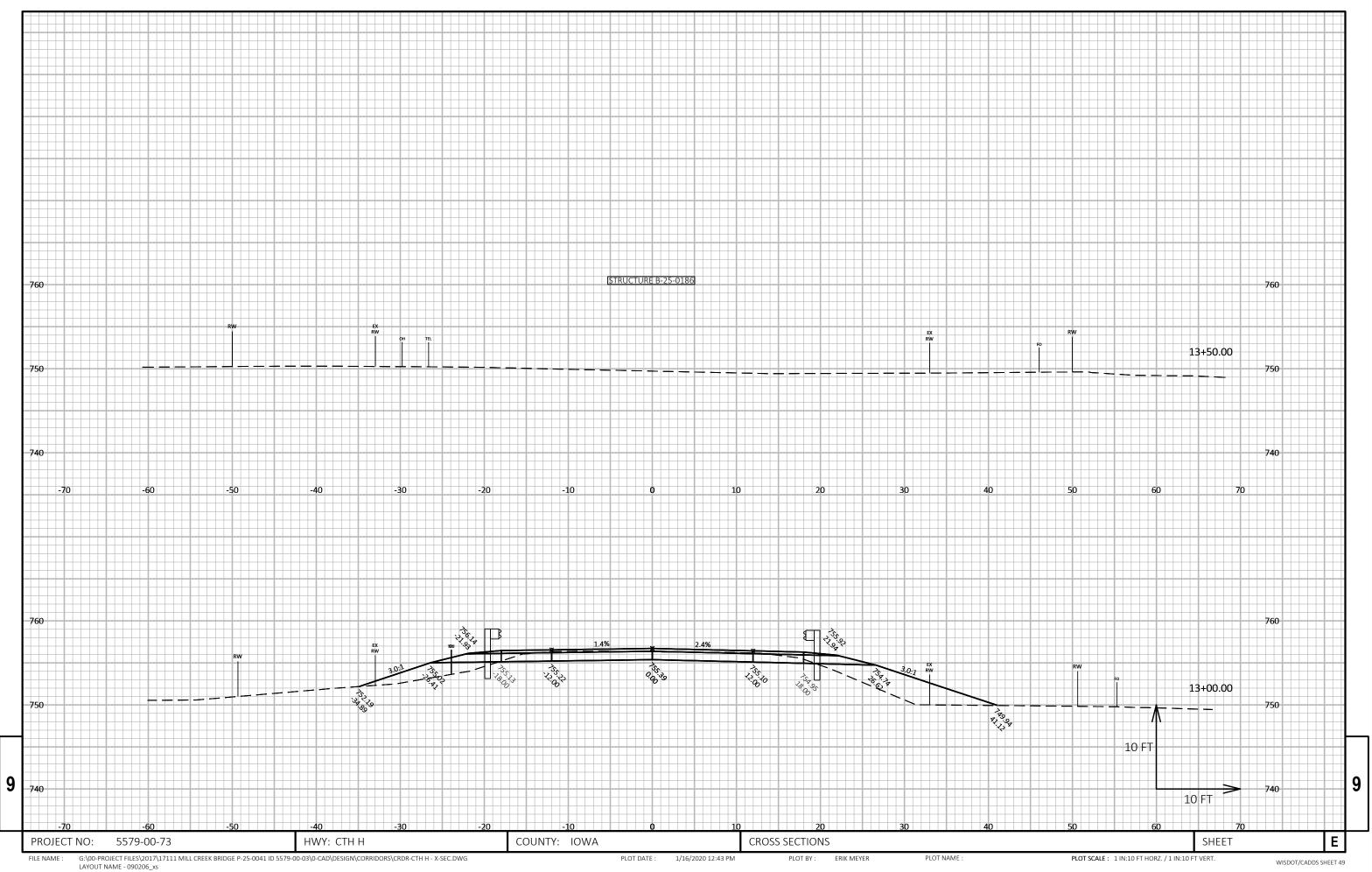


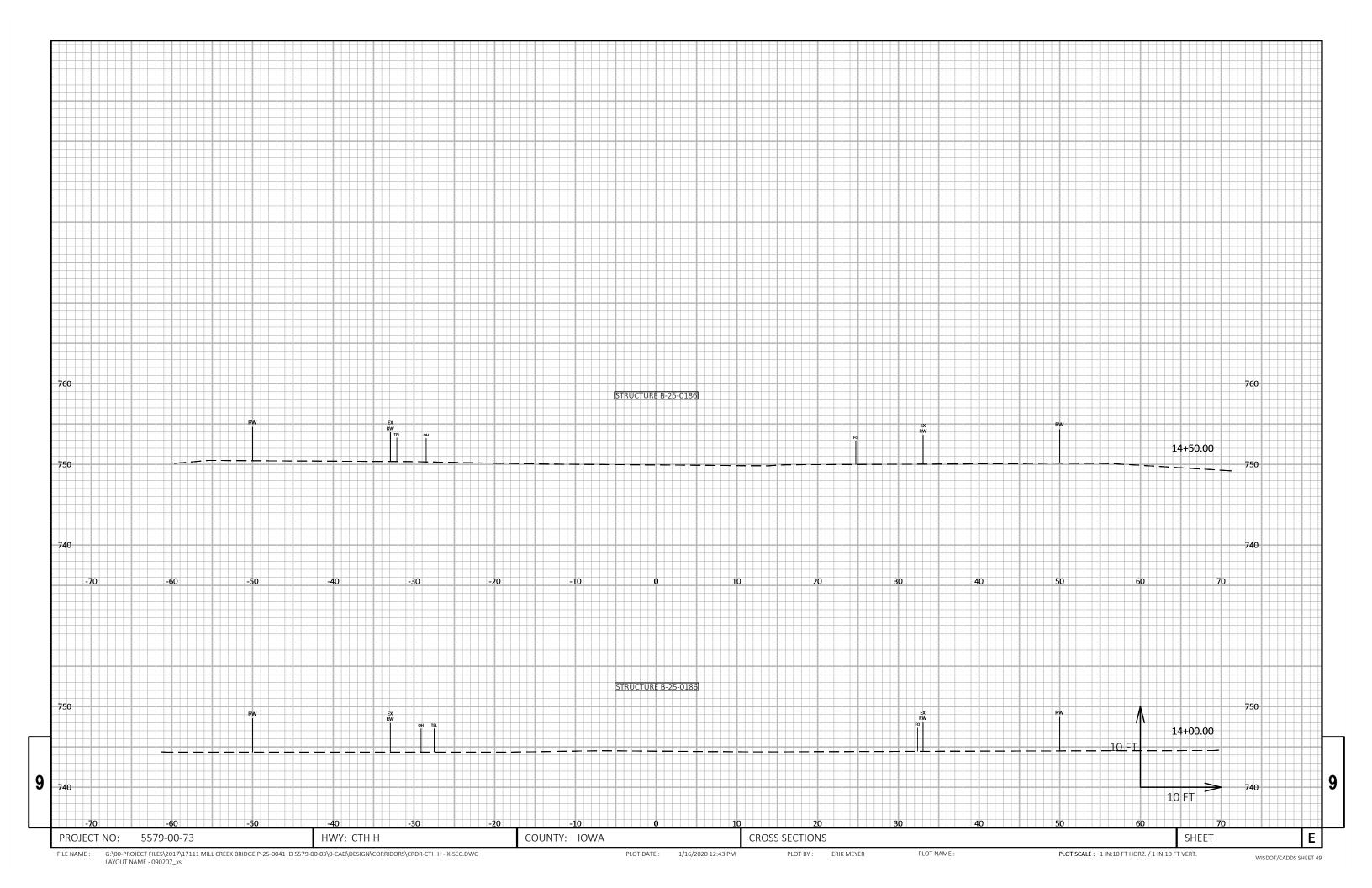


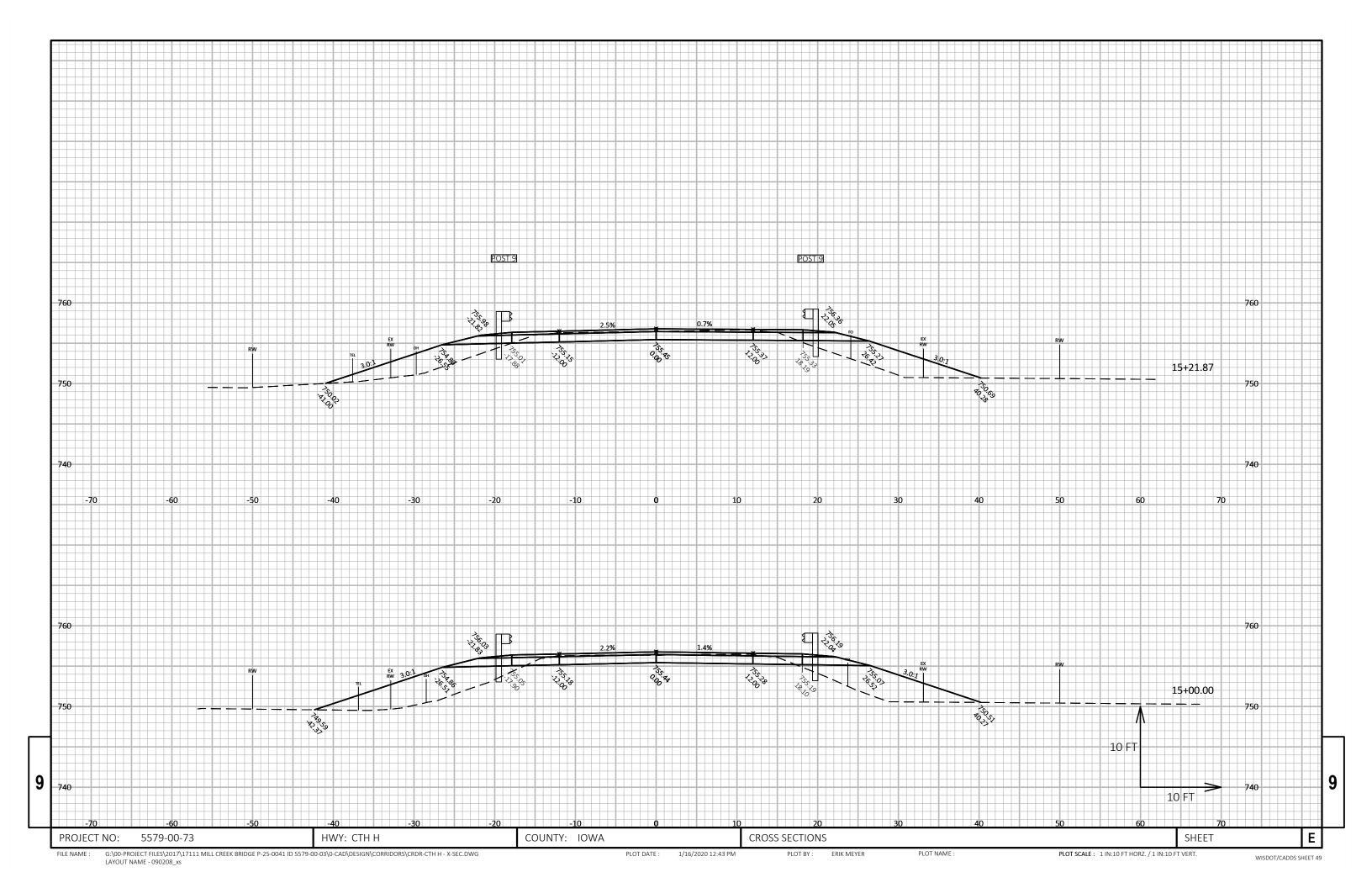


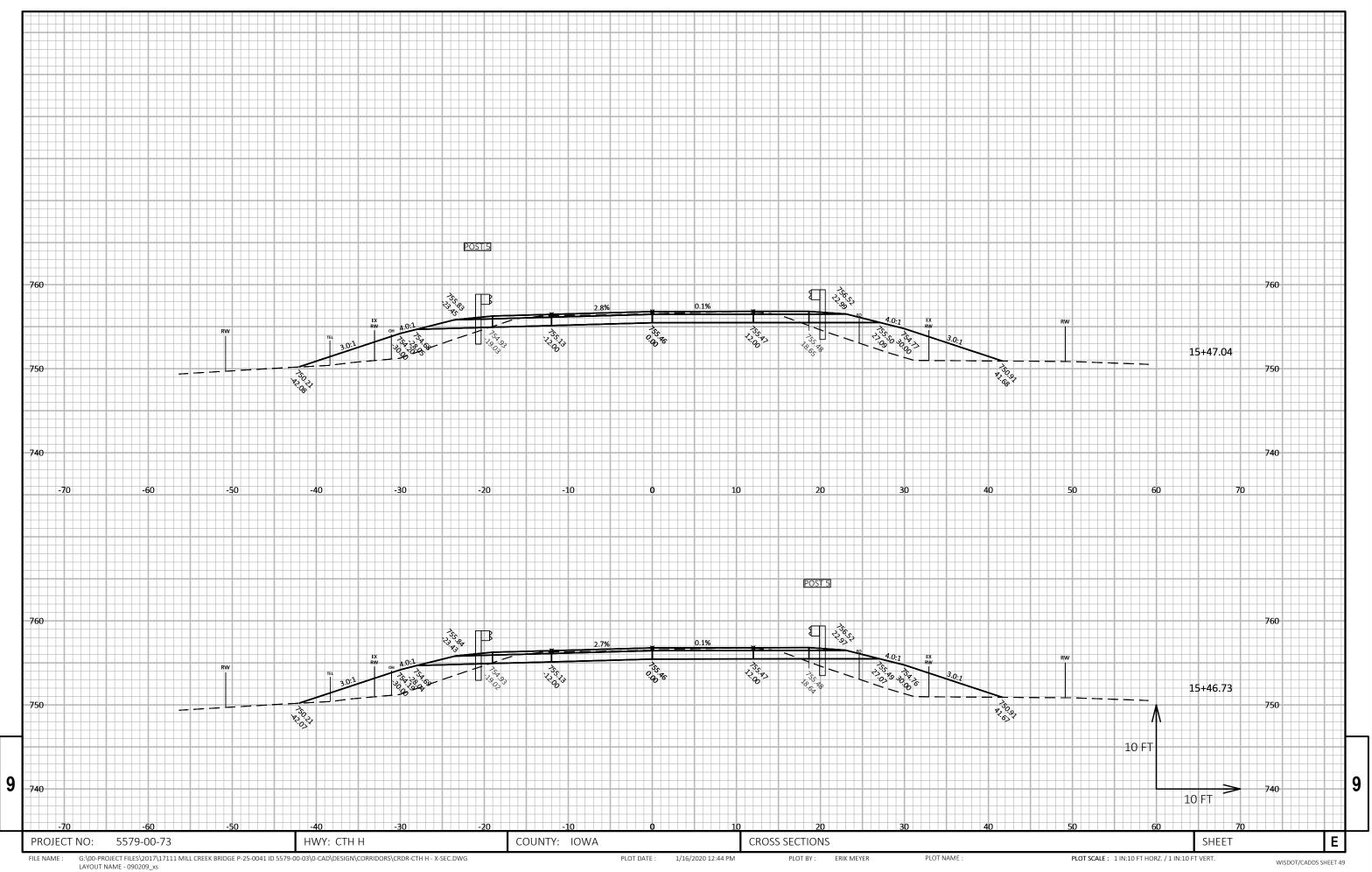


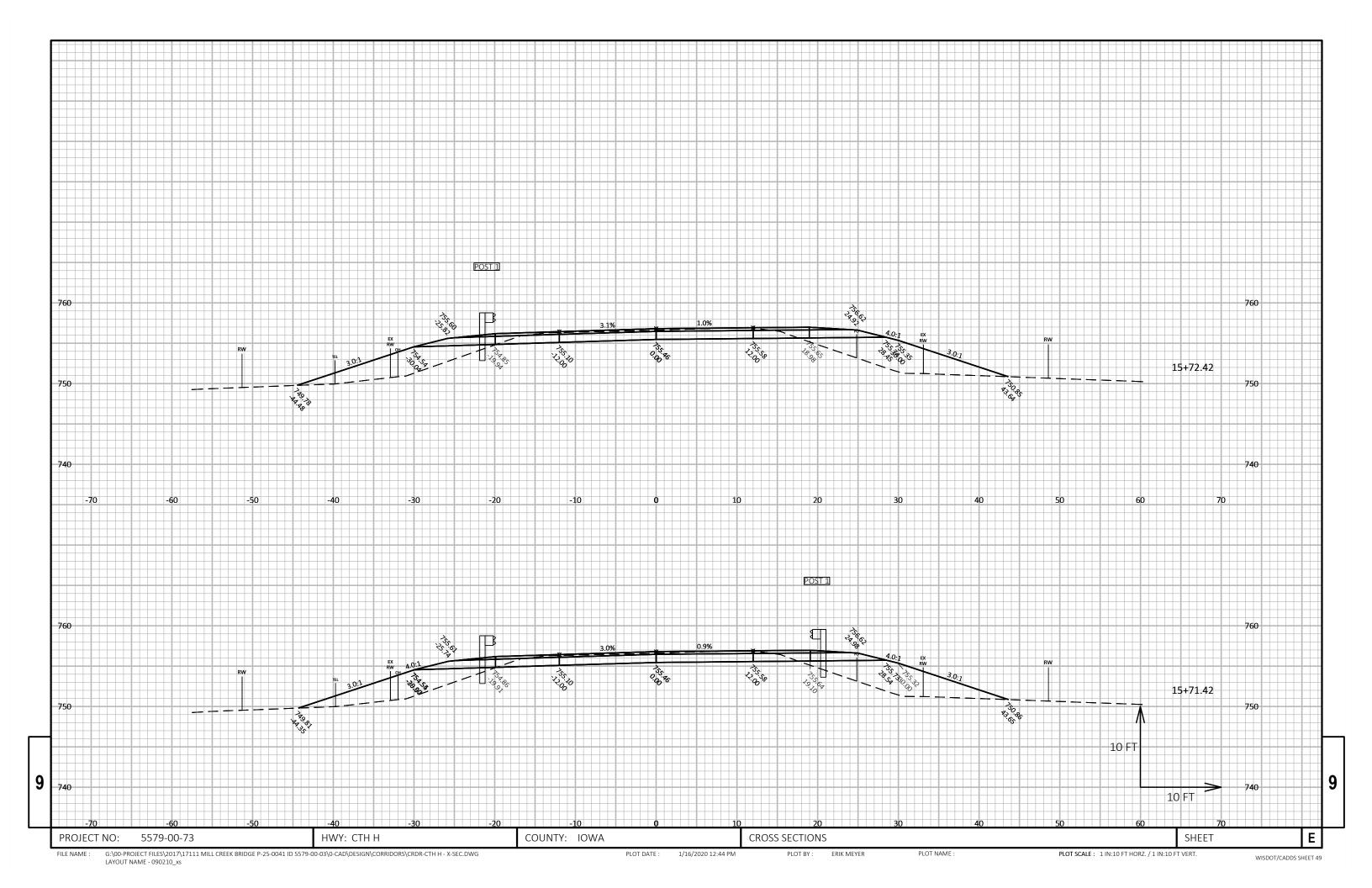


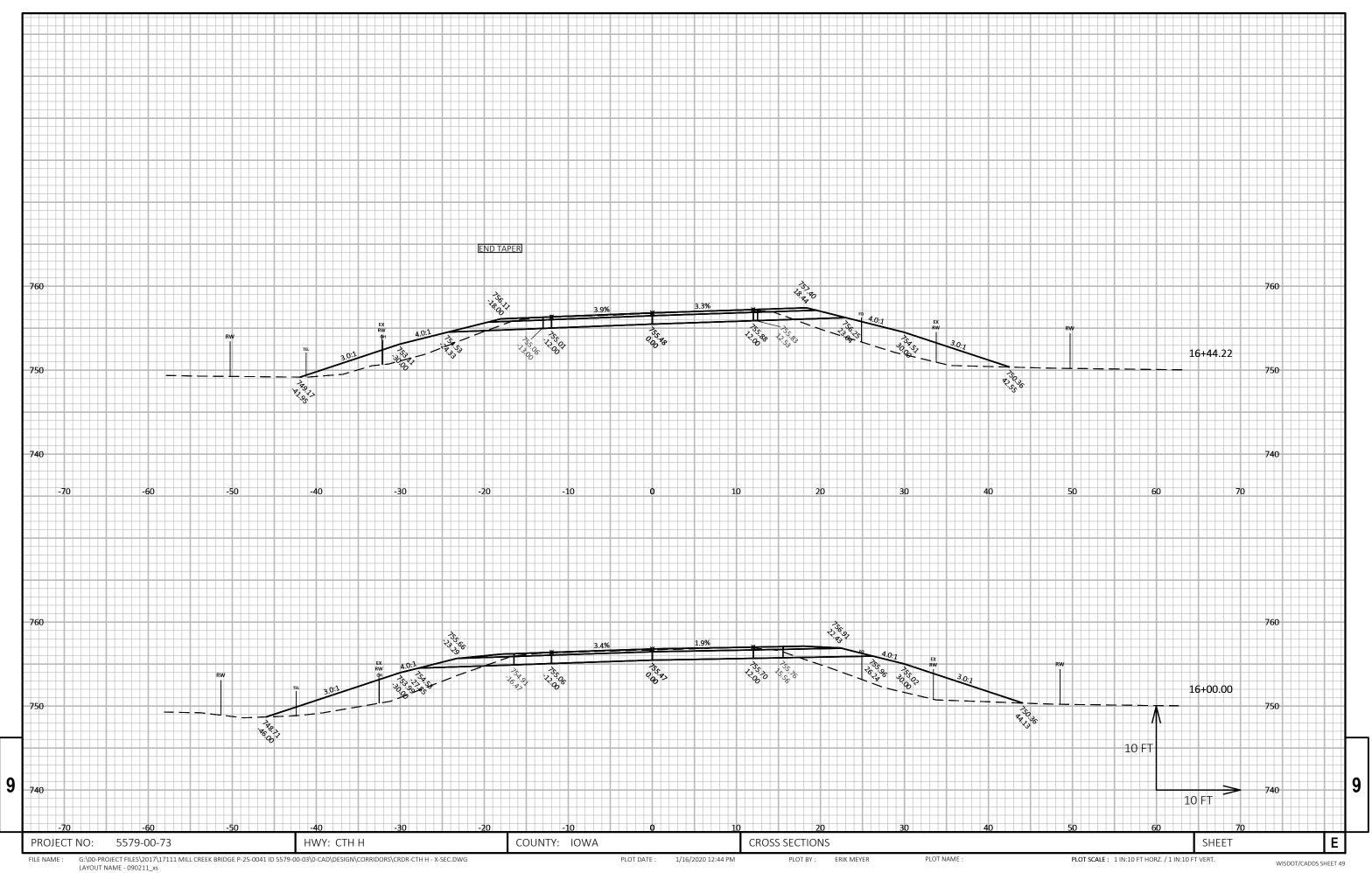


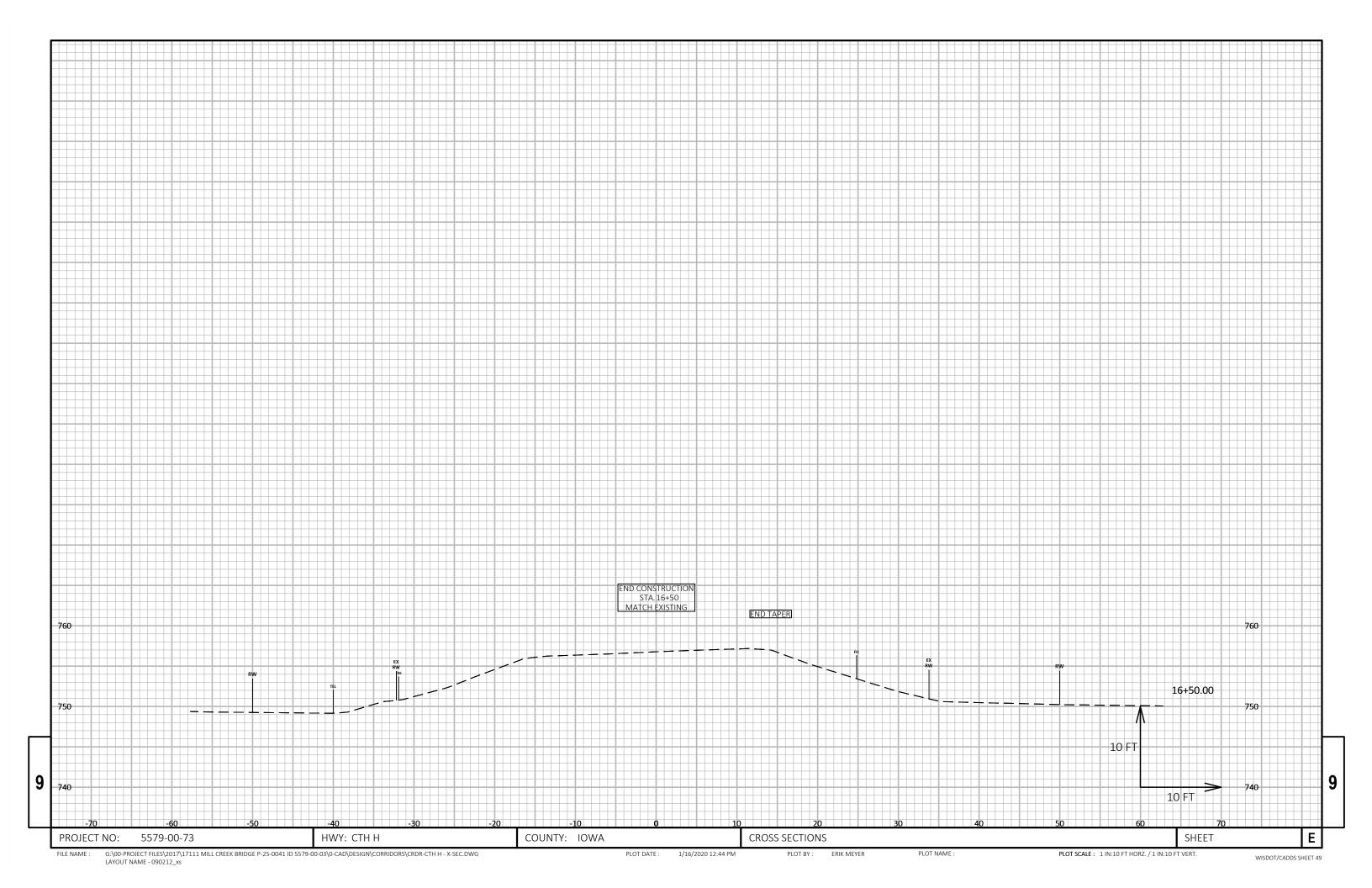


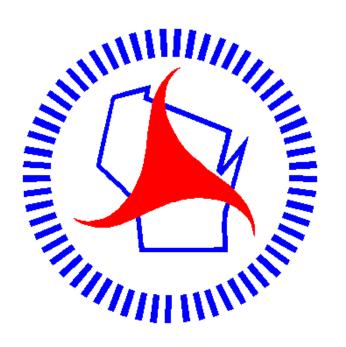












Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov