NOV 2016

ORDER OF SHEETS

Section No. 1

Typical Sections and Details Estimate of Ouantities Miscellaneous Ouantities

Right of Way Plat

Plan and Profile (Includes Erosion Control Plan)

Section No. 6 Standard Detail Drawings Section No. 7

Section No. 8 Structure Plans Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 68

PROJECT LOCATION

DESIGN DESIGNATION

ESALS

A.A.D.T. A.A.D.T. 2036 = 1,100 D.H.V. = 60/40 D.D. = 6.9% DESIGN SPEED

= 138,700

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE

LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT

REFERENCE LINE

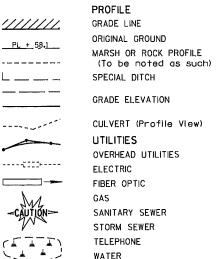
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

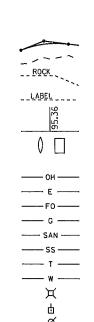




LITHITY PEDESTAL

TELEPHONE POLE

POWER POLE

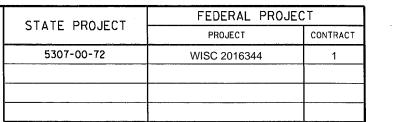


END CONSTRUCTION

STA 26+50.00

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

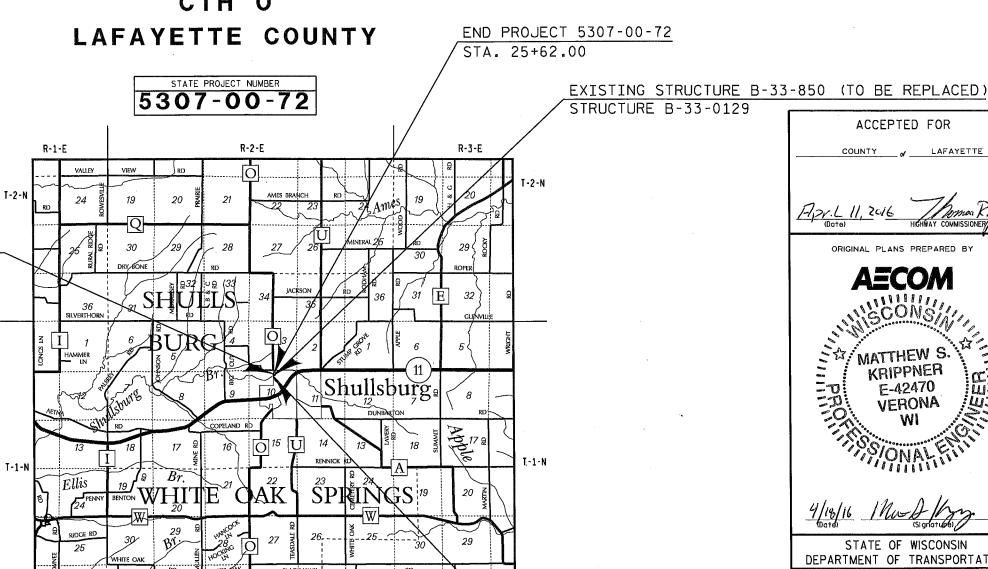
PLAN OF PROPOSED IMPROVEMENT



CITY OF SHULLSBURG, SEYMOUR ROAD

SHULLSBURG BRANCH BRIDGE B-33-129

CTH O



BEGIN PROJECT 5307-00-72 STA, 22+37,50

Y=129,140.258 X=449,825.290

R-3-E

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2007) COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), LAFAYETTE COUNTY, NAD 1983 (91)

PLOT DATE: 4/4/2016

PLOT TIME: 3:42:58 PM

DEPARTMENT OF TRANSPORTATION

ACCEPTED FOR

ORIGINAL PLANS PREPARED BY

KRIPPNER

E-42470

VERONA

REPARED BY Destaner

Management Consultant KL ENGINEERING, INC.

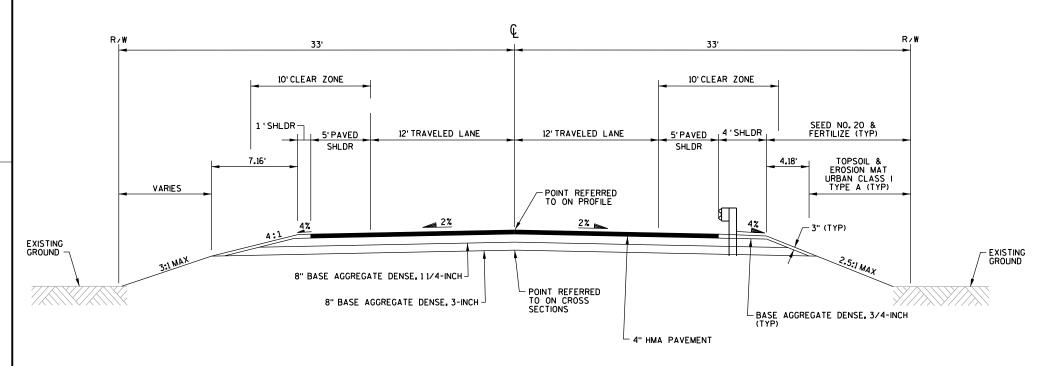
LAYOUT

R-2-E

TOTAL NET LENGTH OF CENTERLINE = 0.061 MI.

TYPICAL EXISTING SECTION - CTH O

STA 22+37.50 - STA 23+67.56 STA 24+29.33 - STA 25+62.00



TYPICAL FINISHED SECTION - CTH O

STA 22+37.50 - STA 23+67.56 STA 24+29.33 - STA 25+62.00



www.DiggersHotline.com

** DENOTES UTILITIES THAT ARE NOT DIGGER'S HOTLINE MEMBERS

GENERAL NOTES

THE LOCATION 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.

WHERE THE QUANTITY OF BASE AGGREGATE DENSE AND HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER, AS SHOWN ON THE PLANS. IS APPROXIMATE. THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

SECTIONS AS SHOWN ON THE CROSS SECTION SHEETS INCLUDE THE THICKNESS OF TOPSOIL.

FILL AS SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM EXCAVATION COMMON OR BORROW. THE EXPANSION ALLOWANCE USED TO COMPUTE THE VOLUME OF MATERIAL NECESSARY TO COMPLETE THE FILL IS 25

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR AN ALUMINUM MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER.

THE 4" HMA PAVEMENT 3 LT 58-28 S SHALL CONSIST OF A 1.75-INCH UPPER LAYER, & A 2.25-INCH LOWER LAYER 4 LT 58-28 S.

THE RUNOFF COEFFICIENTS OF SURFACE DRAINAGE AT THE PROJECT SITE WILL NOT BE CHANGED FROM BEFORE TO AFTER CONSTRUCTION.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS.

USACE CONTACT

KERRIE HAUSER U.S. ARMY CORPS OF ENGINEERS 1114 SOUTH OAK STREET LA CRESCENT, MINNESOTA 55947 651-290-5903

WDNR CONTACT

LAURA BUB WISCONSIN DEPARTMENT OF NATURAL RESOURCES 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 (608) 275-3485 Laura.Bub@wisconsin.gov

DESIGNER CONTACT

AECOM

MATTHEW KRIPPNER 1350 DEMING WAY MIDDLETON, WI 53562 (608)-828-8123 matthew.krippner@aecom.com AECOM PROJECT NO. 60313105

LAFAYETTE COUNTY

TOM JEAN 12016 HILL STREET PO BOX 100 DARLINGTON, WI 53530 608-776-4919 tom.jean@lafayettecountywi.org

UTILITIES

COMMUNICATION LINE:

STEVE BISHOP CENTURYLINK 130 FOURTH ST BARABOO WI 53913 608-355-7501 Steven.bishop@centurylink.com

PATRICK MCGRAW MEDIACOM 6925 GARDEN PRAIRIE RD. GARDEN PRAIRIE, IL 61038 815-597-5103 pmcgraw@mediacomcc.com

ELECTRIC:

TROY DAHL SCENIC RIVER ENERGY COOPERATIVE 231 N. SHERIDAN ST. LANCASTER, WI 53813 tdahl@srec.net

JIM PAQUETTE CITY OF SHULLSBURG ELECTRIC DEPT. P.O. BOX 580 SHULLSBURG. WI 53586 (608) 965-3630

GAS:

ADAM MARING **WE ENERGIES** N3025 14 AVE MONROE. WI 53566 608-328-5679 adam.maring@we-energies.com

SEWER:

VERNE JACKSON CITY OF SHULLSBURG SEWER DEPT. 190 N. JUDGEMENT ST. SHULLSBURG, WI 53586 608-965-3258

WATER:

DON DICKINSON CITY OF SHULLSBURG STREET DEPT. 190 N. JUDGEMENT ST. SHULLSBURG, WI 53586 608-965-3839

SHEET

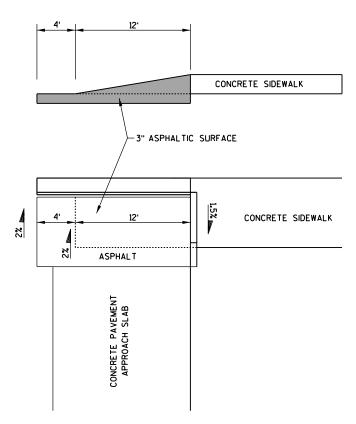
TYPICAL SECTIONS, GENERAL NOTES, UTILITY AND PROJECT CONTACTS

PROJECT NUMBER: 5307-00-72

Ε

HWY: CTH O

2



ASPHALTIC TRANSITION TO SIDEWALK

PROJECT NUMBER: 5307-00-72

HWY: CTH O

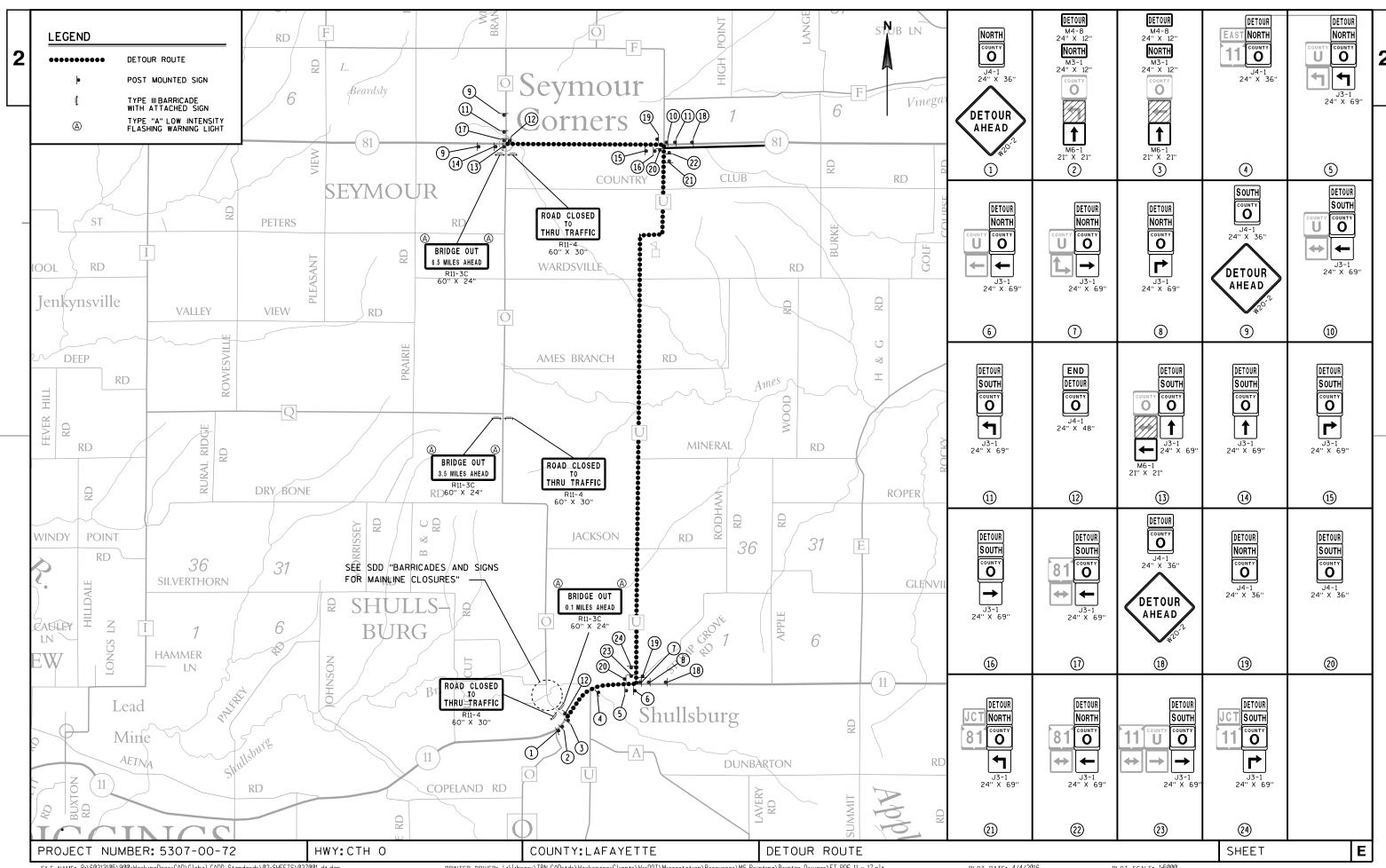
COUNTY:LAFAYETTE

CONSTRUCTION DETAIL

~

SHEET

PLOT DATE: 2/26/2016 PLOT TIME: 11:27:48 AM E



AUG16	E S	TIMAT	E OF QUAN	T I T I E S 5307-00-72
	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
203. 0600. 9		LS	1. 000	1. 000
205. 0100	Excavation Common	CY	670.000	670. 000
206. 1000	(structure) 01. B-33-0129	LS	1. 000	1. 000
210. 0100	Backfill Structure		400.000	400. 000
213.0100	5307-00-72	EACH	1.000	1. 000
305. 0110	Base Aggregate Dense 3/4-Inch	TON	120.000	120. 000 530. 000
	Base Aggregate Dense 3-Inch			640. 000
415. 0410	Concrete Pavement Approach Slab	SY	100.000	100.000
440. 5020	Incentive IRI Ride Bridge	DOL	250. 000	250. 000
455. 0605	Tack Coat	GAL	60.000	60.000
				130. 000 107. 000
460. 5223	HMA Pavement 4 LT 58-28 S	TON	83. 000	83. 000
465. 0105	Asphaltic Surface	TON	6. 000	6. 000
465. 0315	Asphaltic Flumes	SY	9. 000	9. 000
502. 0100	Concrete Masonry Bridges	CY	235.000	235. 000
				362. 000 531. 000
505. 0400	Bar Steel Reinforcement HS Structures	LB	6, 240. 000	6, 240. 000
505, 0600	Bar Steel Reinforcement HS Coated	I B	21.750.000	21, 750. 000
	Structures			
506. 2605	Bearing Pads Elastomeric Non-Laminated	EACH	18. 000	18. 000
500. 4000	B-33-0129	EACH	δ. 000	8. 000
513. 4061	Railing Tubular Type M (structure) 01.	LF	94. 000	94. 000
516. 0500	Rubberized Membrane Waterproofing	SY	22. 000	22. 000
550 0020	Pre-Boring Rock or Consolidated	I F	208 000	208. 000
	Materi al s		200.000	200.000
550. 1100	Piling Steel HP 10-Inch X 42 Lb	LF	240. 000	240. 000
				254. 000 150. 000
614. 2300	MGS Guardrai I 3	LF	25. 000	25. 000
614 2500	MGS Thrie Ream Transition	I F	78 800	78. 800
614. 2610	MGS Guardrail Terminal EAT	EACH	2. 000	2. 000
619. 1000	Mobilization	EACH	1.000	1. 000
		MGAL SY		13. 000 980. 000
	·			
				879. 000 887. 000
628. 1905	Mobilizations Erosion Control	EACH	2.000	2. 000
628. 1910	Mobilizations Emergency Erosion Control	EACH	2.000	2. 000
028. 2006	Erosion Mat urban Class I Type A		980.000	980. 000
628. 6005	Turbidity Barriers	SY	100.000	100.000
	Fertilizer Type B Seeding Mixture No. 20			1. 000 40. 000
642. 5001	Field Office Type B	EACH	1. 000	1. 000
643. 0100	Traffic Control (project) 01. 5307-00-72	EACH	1. 000	1. 000
643. 0420	Traffic Control Barricades Type III	DAY	670. 000	670. 000
643. 0705	Traffic Control Warning Lights Type A	DAY	760.000	760. 000
643. 0900	TRATTIC CONTROL SIGNS	DAY	480.000	480. 000
	205. 0100 206. 1000 210. 0100 213. 0100 305. 0110 305. 0120 305. 0130 415. 0410 440. 5020 455. 0605 460. 2000 460. 5223 460. 5224 465. 0105 465. 0315 502. 0100 502. 3200 503. 0128 505. 0400 505. 0600 506. 2605 506. 4000 513. 4061 516. 0500 550. 1100 606. 0300 612. 0406 614. 2300 614. 2500 614. 2500 628. 1905 628. 1905 628. 1910 628. 1905 628. 1905 628. 2006 643. 0420	ITEM DESCRIPTION 203.0600. S Removing Old Structure Over Waterway With Minimal Debris (station) 01. 24+00 Excavation for Structures Bridges (structure) 01. B-33-0129 210.0100 Backfill Structure 213.0100 Finishing Roadway (project) 01. 5307-00-72 305.0110 Base Aggregate Dense 3/4-Inch 305.0120 Base Aggregate Dense 1 1/4-Inch 305.0120 Base Aggregate Dense 3-Inch 415.0410 Concrete Pavement Approach Slab Incentive IRI Ride Bridge 455.0605 Tack Coat Incentive Density HMA Pavement HMA Pavement ALT 58-28 S HMA Pavement 3 LT 58-28 S Asphaltic Surface 465.0315 Asphaltic Flumes Concrete Masonry Bridges Protective Surface Treatment Concrete Wasonry Bridges Protective Surface Treatment Brest Reinforcement HS Coated Structures 505.0400 Bar Steel Reinforcement HS Coated Structures 506.2605 Bearing Pads Elastomeric Non-Laminated Steel Diaphragms (structure) 01. B-33-0129 513.4061 Railing Tubular Type M (structure) 01. B-33-0129 514.0500 Rubberized Membrane Waterproofing 505.0020 Pre-Boring Rock or Consolidated Materials Pipe Underdrain Wrapped 6-Inch MGS Guardrail 3 614.2500 MGS Guardrail 3 614.2500 MGS Thrie Beam Transition MGS Guardrail Terminal EAT Mobilizations Erosion Control Res. 2006 Protein Silt Fence Maintenance 628.1905 Mobilizations Erosion Control 628.1905 Mobilizations Erosion Control 628.1900 Fertilizer Type B Seeding Mixture No. 20 Field Office Type B Seeding Mixture No. 20 Field Office Type B Seeding Mixture No. 20 Field Office Type B Traffic Control Warrer Control Warrer Faffic Control Warrier Structure Warning Lights Type A	TEM	TEM SECRIPTION UNIT TOTAL

DATE 16 LINE	AUG16	EST	IMAT	E OF QUAN	T I T I E S 5307-00-72	
NUMBER 0490	I TEM 643. 0920	ITEM DESCRIPTION Traffic Control Covering Signs Type II	UNI T EACH	TOTAL 3. 000	QUANTI TY 3. 000	
0500	643. 2000	Traffic Control Detour (project) 01. 5307-00-72	EACH	1. 000	1. 000	
0510	643. 3000	Traffic Control Detour Signs	DAY	5, 050. 000	5, 050. 000	
0520	645. 0120	Geotextile Type HR	SY	385.000	385.000	
0530	646. 0106	Pavement Marking Epoxy 4-Inch	LF	1, 320. 000	1, 320. 000	
0540	650. 4500	Construction Staking Subgrade	LF	232. 000	232. 000	
0550	650. 5000	Construction Staking Base	LF	232. 000	232. 000	
0560	650. 6500	Construction Staking Structure Layout (structure) 01. B-33-0129	LS	1. 000	1. 000	
0570	650. 9910	Construction Staking Supplemental Control (project) 01. 5307-00-72	LS	1. 000	1. 000	
0580	650. 9920	Construction Staking Slope Stakes	LF	232. 000	232. 000	
0590	690. 0150	Sawi ng Asphal t	LF	51.000	51. 000	
0600	715. 0502	Incentive Strength Concrete Structures	DOL	1, 410. 000	1, 410. 000	
0610	ASP. 1TOA	On-the-Job Training Apprentice at \$5.	HRS	150. 000	150. 000	
0620	ASP. 1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	230.000	230.000	
0630	SPV. 0090	Special 01. Railing Tubular Type M Modified B-33-0129	LF	94. 000	94. 000	

<u>EARTHWORK</u>										
From/To Station	Location	Excavation Common (1) (item # 205.0100)	Available Material (3)	Unexpanded Fill	Expanded Fill (4) Factor	Mass Ordinate +/- (5)	Waste	Borrow (item		
					1.25			#208.0100)		
22+38 - 23+68	South Approach	350	350	120	150	200	200	0		
24+29 - 26+50	North Approach	320	320	400	500	-180	0	180		
				·						
Grand Total	•	670	670	520	650	20	200	180		
Total Exc Common 670 Total Borrow 0								0		

1) Excavation Common is the sum of the Cut and EBS Excavation columns. Item number 205.0100

2) Salvaged/Unsuable Pavement Material is included in Cut.

3) Available Material = Cut - Salvaged/Unusuable Pavement Material

4) Expanded Fill. Factor = 1.25

Depending on selections:

Expanded Fill = (Unexpanded Fill) * Fill Factor

5) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

BASE AGGREGATE DENSE

STATION		STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	305.0130 3-INCH TON	624.0100 WATER MGAL	REMARKS
22+38	-	23+52	CTH O	40	250	300	6	SOUTH APPROACH
24+45	-	25+62	CTH O	70	250	310	6	NORTH APPROACH
UNDIS	TR	IBUTED		10	30	30	1	
PROJECT (530	7-00-72 TOTAL		120	530	640	13	

CONCRETE PAVEMENT APPROACH SLAB

				415.0410 CONCRETE PAVEMENT APPROACH SLAB
STATION	-	STATION	LOCATION	SY
23+53.17	-	23+68.17	SOUTH APPROACH	50
24+28.67	-	24+43.67	NORTH APPROACH	50
PROJECT 5	307-	00-72 TOTAL		100

ASPHALT	P	AVEMENT	ITEMS			
				455.0605	460.5223	460.5224
				TACK	HMA PAVEMENT	HMA PAVEMENT
				COAT	3 LT 58-28 S	4 LT 58-28 S
STATION	-	STATION	LOCATION	GAL	TON	TON
22+38	-	23+52	CTH O	30	53	41
24+45	-	25+62	CTH O	30	54	42
PROJECT 5	30	7-00-72 TO1	AL	60	107	83

ASPHALT	ГS	URFACE		
				465.0105
				ASPHALTIC
				SURFACE
STATION	-	STATION	LOCATION	TON
23+51	-	23+68	SOUTH APPROACH	3
24+28	-	24+46	NORTH APPROACH	3
PROJECT	530	7-00-72 TOT	AL	6

ASPHALTIC	FLUMES		
			465.0315
			ASPHALTIC
			FLUMES
STATION	OFFSET	LOCATION	SY

STATION	OFFSET	LOCATION	SY	
23+47	21' LT	SW QUADRANT OF BRIDGE	9	
DDO IECT FOO	7 00 72 TOTA	1	^	_

23+47	21' LT	SW QUADRANT OF BRIDGE	9
PROJECT 5307	-00-72 TOTA	AL .	9

CHADDDAIL

PLOT DATE: 8/10/2016

PLOT TIME: 4:09:58 PM

<u>GUARDRAIL</u>		614.2300 MGS GUARDRAIL 3	614.2500 MGS THRIE BEAM TRANSITION	614.2610 MGS GUARDRAIL TERMINAL EA
STATION - STATION	OFFSET	LF	LF	EACH
22+49.21 - 23+54.17	RT	12.5	39.4	1
24+42.84 - 25+48.34	RT	12.5	39.4	1
PROJECT 5307-00-72 TOT	AL	25	78.8	2

PROJECT NUMBER: 5307-00-72

HWY: CTH O

COUNTY: LAFAYETTE

MISCELLANEOUS QUANTITIES

SHEET

E

PI	NG				
			625.0100	629.0210	630.0120
			TOPSOIL	FERTILIZER	SEEDING
				TYPE B	MIXTURE NO. 20
-	STATION	LOCATION	SY	CWT	LB
-	23+52	LT	210	0.2	9
-	23+52	RT	80	0.1	4
-	25+62	LT	230	0.2	9
-	25+62	RT	260	0.2	10
UNDISTRIBUTED				0.3	8
307	7-00-72 TOTA	<u> </u>	980	1.0	40
	- - - - TRI	- 23+52 - 23+52 - 25+62 - 25+62 TRIBUTED	- STATION LOCATION - 23+52 LT - 23+52 RT - 25+62 LT - 25+62 RT	STATION LOCATION SY - 23+52 LT 210 - 23+52 RT 80 - 25+62 LT 230 - 25+62 RT 260 TRIBUTED 200	625.0100 629.0210 TOPSOIL FERTILIZER TYPE B

<u>EROSION</u>	C	<u>ONTROL</u>		628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	628.2006 EROSION MAT URBAN CLASS I TYPE A	628.6005 TURBIDITY BARRIERS
STATION	-	STATION	LOCATION	LF	LF	EACH	EACH	SY	SY
22+38	-	23+72	LT	147	147			210	
22+38	-	23+72	RT	143	143			80	
24+15	-	25+62	LT	170	170			230	
24+15	-	26+50	RT	242	242			260	
23+81			LT & RT					0	53
24+15			LT & RT					0	28
UNDIS	TRI	BUTED		177	185	2	2	200	19
PROJECT 5	307	'-00-72 TOTA	L	879	887	2	2	980	100

TRAFFIC CONTR	ROL									
	DAYS IN	TRAFFIC BARRI	0420 Control Cades Pe III	TRAFFIC	.0705 CONTROL G LIGHTS PE A	TRAFFIC	.0900 CONTROL GNS	643.2000 TRAFFIC CONTROL DETOUR 5307-00-72	TRAFFIC	.3000 CONTROL R SIGNS
LOCATION	SERVICE	NO.	DAY	NO.	DAY	NO.	DAY	EACH	NO.	DAY
5307-00-72	45	14	630	16	720	10	450	1	107	4,815
UNDISTRIBUTED			40		40		30			235
PROJECT 5307-00-	72 TOTAL		670		760		480	1		5,050

SIGN DETAIL NUMBER	PLAN SHEET	SIGN COVERED	NO. OF COVERING CYCLES	643.0920 TRAFFIC CONTROI COVERING SIGNS TYPE II EACH
2	DETOUR ROUTE	LEFT TURN ARROW	1	1
2			'	
3	DETOUR ROUTE	LEFT ARROW	1	1
13	DETOUR ROUTE	DOUBLE ARROW	1	1

				646.	0106
				PAVEMENT MARKING EPOXY 4-INCH WHITE	PAVEMENT MARKING EPOXY 4-INCH YELLOW
STATION		STATION	TYPE	LF	LF
22+38	-	23+52	EDGELINE, CENTERLINE (DOUBLE SOLID)	230	230
23+52	-	24+45	EDGELINE, CENTERLINE (DOUBLE SOLID)	190	190
24+45	-	25+62	EDGELINE, CENTERLINE (DOUBLE SOLID)	240	240
PRO IECT	530	7-00-72 TOTAL		11	320

				650.4500 SUBGRADE	650.5000 BASE	650.9910 SUPPLEMENTAL CONTROL 5307-00-72	650.9920 SLOPE STAKES
STATION		STATION	LOCATION	LF	LF	LS	LF
22+38	-	23+52	CTH O	115	115		115
24+45	_	25+62	CTH O	117	117		117
530	7-00)-72				1	
ROJECT 5	307	-00-72 TOTAL		232	232	1	232

		690.0150 SAWING
		ASPHAL
STATION	LOCATION	LF
22+38	CTH O - MATCH EXISTING	28
25+62	CTH O - MATCH EXISTING	23

PROJECT NUMBER: 5307-00-72

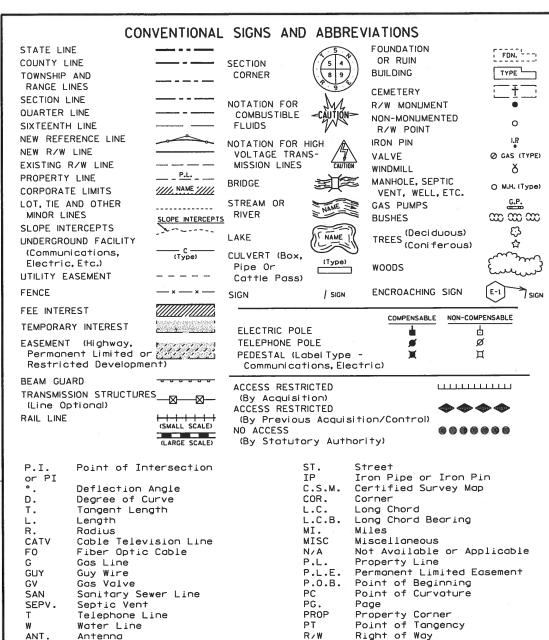
HWY: CTH O

COUNTY:LAFAYETTE

MISCELLANEOUS QUANTITIES

PLOT DATE: 8/10/2016 PLOT TIME: 4:10:00 PM SHEET

ET **E**



0, , ,			1. 0 100 0. 1. 0 1
۰.	Deflection Angle	C.S.M.	Certified Survey Map
D.	Degree of Curve	COR.	Corner
T.	Tangent Length	L.C.	Long Chord
L.	Length	L.C.B.	Long Chord Bearing
R.	Radius	MI.	Miles
CATV	Cable Television Line	MISC	Miscellaneous
F0	Fiber Optic Cable	N/A	Not Available or Applicable
G	Gas Line	P.L.	Property Line
GUY	Guy Wire	P.L.E.	Permanent Limited Easement
GV	Gas Valve	P.O.B.	Point of Beginning
SAN	Sanitary Sewer Line	PC	Point of Curvature
SEPV.	Septic Vent	PG.	Page
T	Telephone Line	PROP	Property Corner
W	Water Line	PT	Point of Tangency
ANT.	Antenna	R/W	Right of Way
В	Barn or Building	RD.	Road
G	Garage	REM.	Remnant
Н	House	S.F.	Square Feet
S	Shed	SEC.	Section
C.T.H.	County Trunk Highway	STA.	Station
CORP	Corporation	T.L.E.	Temporary Limited Easement
LLC	Limited Liability Corporation	or TLE	· -
RR.	Railroad	VOL.	Volume

S.T.H. State Trunk Highway

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, LAFAYETTE COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED FOR GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4 " X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE LAFAYETTE COUNTY HIGHWAY DEPARTMENT.

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

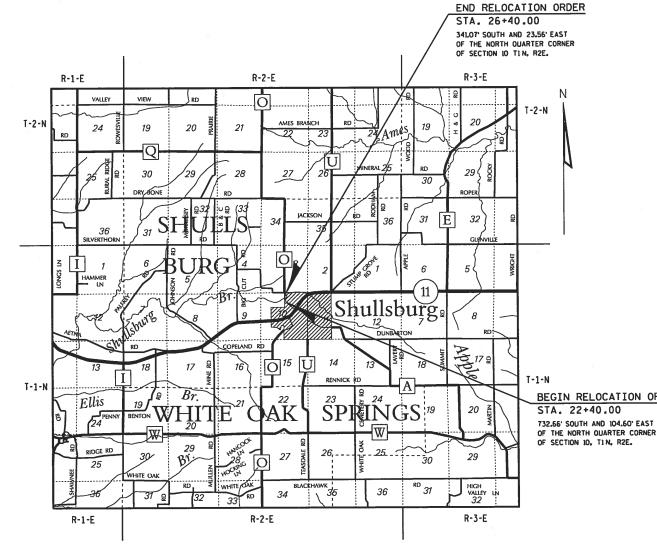
SHEET TOTAL RZW PROJECT NUMBER 5307-00-01 FEDERAL PROJECT NUMBER 4.01 2

PLAT OF RIGHT-OF-WAY REQUIRED FOR CITY OF SHULLSBURG, SEYMOUR ROAD SHULLSBURG BRANCH BRIDGE B-33-0129

CTH 0

LAFAYETTE COUNTY

CONSTRUCTION PROJECT NUMBER 5307-00-72



AECOM BEGIN RELOCATION ORDER

SCONS LANCE J. HABECK S-1444 PLOVER, SUR The same

ORIGINAL PLAT PREPARED BY

DATE: ___3/17/15

REVISION DATE

LAFAYETTE COUNTY HIGHWAY DEPARTMENT

APPROVED FOR THE DEPARTMENT

DATE: 4/20/15

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.076 MI.

SCALE I

- PROJECT LOCATION

SCHE	DULE OF LANDS & INTERESTS	REQUIR	ED I P	WNER'S NAMES ARE JRPOSES ONLY AND RIOR TO THE TRANS D LAFAYETTE COUN	ARE SUBJECT FER OF LAND	TO CHANGE
PARCEL		INTEREST	R.	W ACRES REOU	IRED	T.L.E.
NUMBER	OWNER (S.)	REOUIRED	NEW	EXISTING	TOTAL	ACRES
1	EUGENE E. LOGAN & THE ELIZABETH A. HOMRICH TRUST, DATED JNAUARY 25, 2007	FEE & TLE	0.07	0.38	0.45	0.04
2	STEVEN H. CURRAN & GINA M. CURRAN	FEE & TLE	0.07	0.16	0.23	0.03
3	CITY OF SHULLSBURG	FEE & TLE	0.02	0.07	0.09	0.01

UT:	ILITY INTERESTS	REQUIRED
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	CENTURYLINK (TELEPHONE)	RELEASE OF RIGHTS
51	CITY OF SHULLSBURG ELECTRIC	RELEASE OF RIGHTS
52	WE ENERGIES (GAS)	RELEASE OF RIGHTS
53	MEDIACOM	RELEASE OF RIGHTS

R/W CURVE TABLE FROM - TO RADIUS LENGTH CHORD CHORD BEARING 606 - 615 1863.00' 66.10' 66.10' N09°15'34"W

R/I	COURSE TABLE	
FROM - TO	BEARING	DISTANCE
602 - 603	N23°53'59"W	60.66'
603 - 604	N12°28'16"W	193.96'
604 - 606	N03°24'41"W	83.84'
606 - 615	CURVE	
615 - 614	N81°52'14"E	66.00'
614 - 611	S20°31'14"E	65.04'
611 - 612	S11°55'46"E	79.63'
612 - 610	S11°55'46"E	148.08'
610 - 609	S17°46'22"W	23.25'
609 - 616	S12°30'40"E	85.45
616 - 602	S77°53'55"W	66.00'
621 - 602	S89°37'20"E	76.93'

TLE COURSE TABLE

FROM - TO BEARING DISTANCE

S77°53'55"W

N23°53'59"W

N12°28'16"W

N03°23'19"W

N80°00'30"E

N81°52'14"E

S20°31'14"E

S11°55'46"E

S17°46'22"W

704 - 609 N12°30'40"W

602 - 700

700 - 701

701 - 702

702 - 703

703 - 606

707 - 706

706 - 705

705 - 704

614 - 707

R/W ST	ATION & OFFS	ET TABLE
POINT	STATION	OFFSE
602	22+40.00	33.28
603	23+00.00	45.00
604	24+93.52	45.00
606	25+75.00	33.70
609	23+25.00	33.14
610	23+45.00	45.00
611	25+75.00	45.00
612	24+93.52	46.07
614	26+40.00	32.08
615	26+40.00	33.92
616	22+40.00	32.72

TLE ST	ATION & OFFS	ET TABLE
POINT	STATION	OFFSET
700	22+40.00	38.39'
701	22+99.54	50.00'
702	24+93.89	50.00'
703	25+75.00	38.70'
704	23+05.17	33.01'
705	23+33.50	49.81'
706	25+75.56	49.98'
707	26+40.00	37.19'

TLE	POINT COORDIN	NATE TABLE
POINT	Y	Х
700	129134.628	449787.238
701	129189.589	449762.883
702	129379.847	449720.804
703	129463.366	449715.859
704	129213.597	449842.552
705	129244.960	449852.606
706	129479.289	449803.099

129135.699

129191.157

129380.540

129464.234

129232.956

129255.097

129477.888

129399.981

129538.802

129529,469

129149.535

POINT

602

603

604

606

609

610

611

612

614

615

616

NOTE: EXISTING RIGHT OF WAY FOR CTH O ESTABLISHED BY 3 ALUMINUM MON. P.I. = 20+00.00 Y 128908.008 CSM 584, VOLUME 5, PAGE 584 AND CENTERLINE OF Y=129875.332 EXISTING PAVEMENT AND STATUTE 82.31. 10 X 449875.085 X=449720.176 P.I. = 22+50.00 Y 129152.455 X 449822.675 $\Delta = 00^{\circ}47'09" LT.$ P.I. = 23+50.01 Y 129249.941 X 449800.370 SHULLSBURG CITY Δ. = 00°33'41" RT. P.I. = 26+83.18 Y 129575.436 Y 1295/5.436 X 449729.247 Δ. = 10°50'04" RT. D. = 02°51'53" T. = 189.66' L. = 378.19' R. = 2000.00' DA. = N01°29'29"W END RELOCATION ORDER STA. 26+40.00 Y=129534.266 TOWN X=449743.731 PI 26+83.18 707 615 NE-NW 706 NW-NE 606 -611) 703 STEVEN H. CURRAN 5' TLE FOR & GINA M. CURRAN PC 24+93.52 0.03 ACRES CENTURYLINK (TELEPHONE)
16.5' EASEMENT PLAT OF SURVEY SLOPE INTERCEPTS DATED 12/21/2001 612 VOL. 42 PG. 366 DOC. 199460 604 CITY OF SHULLSBURG ELECTRIC
NO RECORD OF EASEMENT 702 OF 5' TLE FOR (1)R/W POINT COORDINATE TABLE O.O4 ACRES ELIGENE E. LOGAN & THE . R/L=N12°19'33"W MEDIACOM 53 ELIZABETH A. HOMRICH TRUST 449792.233 DATED JANUARY 25, 2007 449767.657 OF EASEMENT 449725.772 SHULL SPURG 449720.783 449838.257 -610 . TLE-SLOPES 449845,354 705 0.01 ACRES 449798.285 449814.744 30' INGRESS / EGRESS EASEMENT 449775.485 449710.148 449856.768 704 SCENIC RIVER ENERGY COOPERATIVE 60' EASEMENT (3) VOL. 62 PG. 653 DOC. 236192 616 CITY OF SHULLSBURG PI 22+50.00 LOT 1 CSM 584 VOL. 5 / PG. 584 SHULLSBURG DOC. 330149 BEGIN RELOCATION ORDER STA. 22+40.00 CITY OF SHULLSBURG 20' WATERMAIN EASEMENT Y=129142.675 707 | 129539.526 | 449780.552 X=449824.772 DOC. 330515 DOC. 331492 10 7/8" REBAR/ ALUMINUM CAP 15 Y=124563.697 X=449685.148 PLAT SHEET 4.02 STATE R/W PROJECT NUMBER 5307-00-01 HWY: CTH O CONSTRUCTION PROJECT NUMBER 5307-00-72 PS&E SHEET

REVISION DATE

SCALE, FEET DATE 4-16-15 50

COUNTY: LAFAYETTE

PLOT DATE: 4/14/2015

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

PLOT SCALE: 1:100

WISDOT/CADDS SHEET 75

60.12

194.86

83.67

5.00'

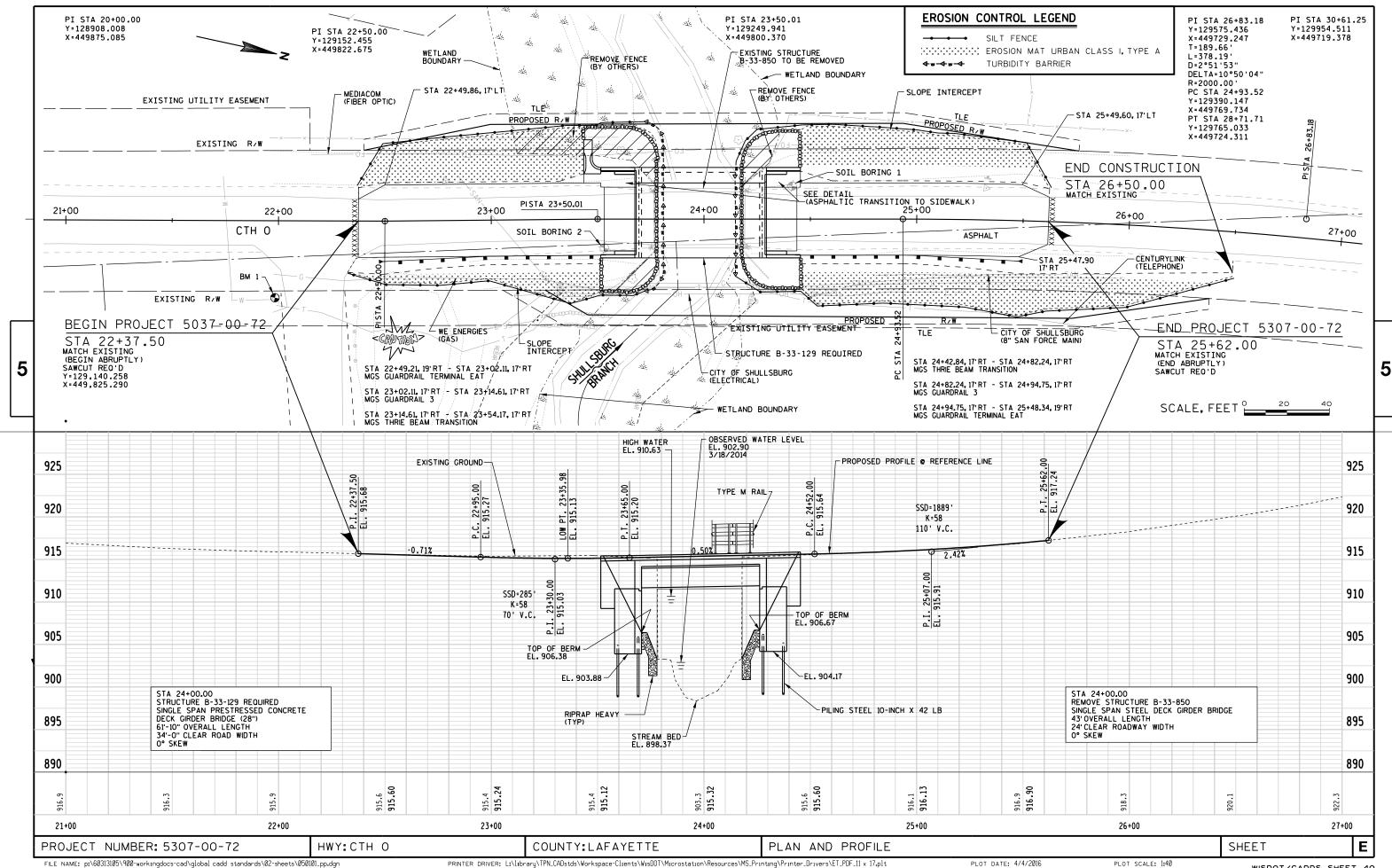
5.12'

64.32

239.50

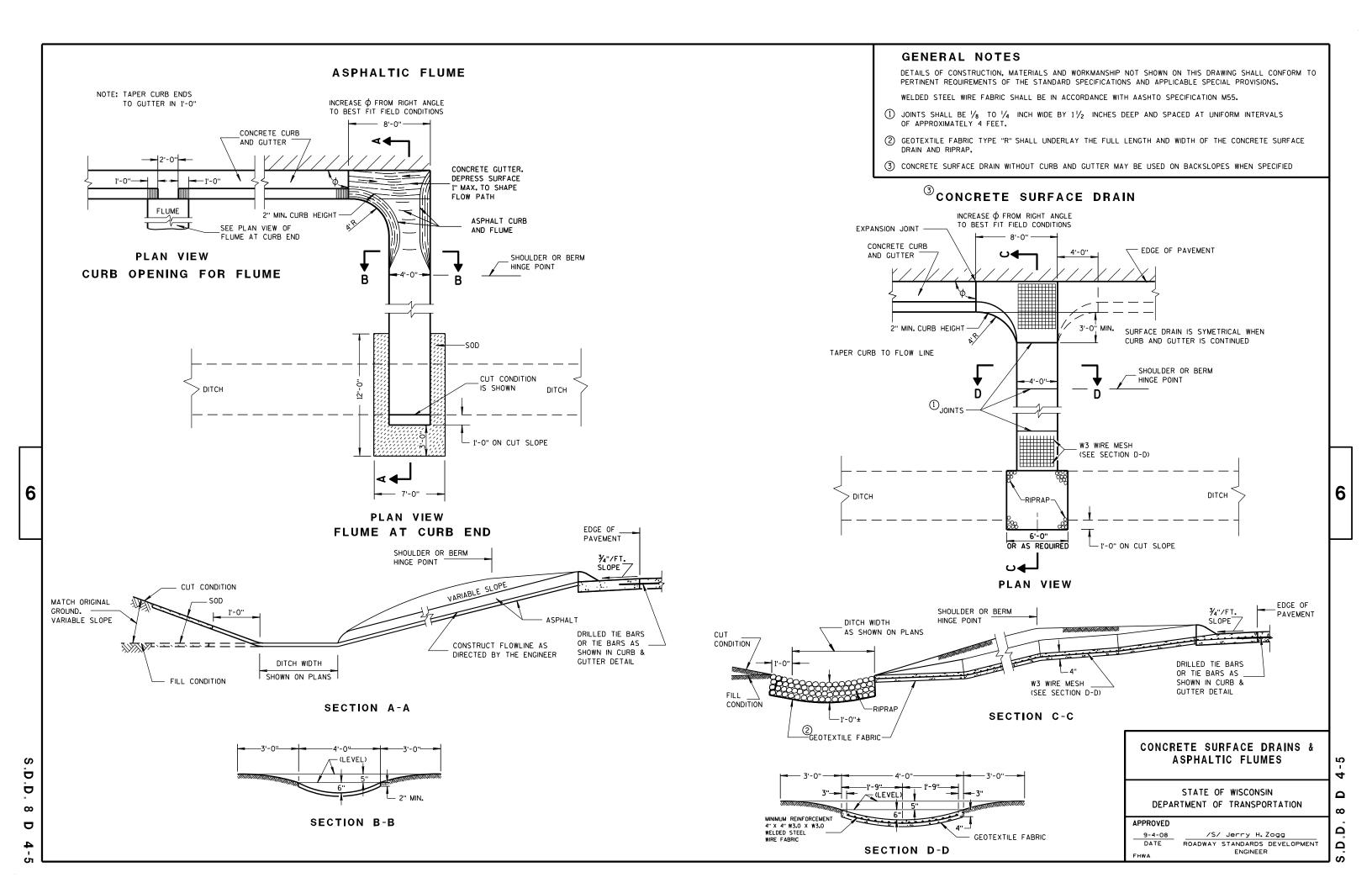
32.93

19.83'



Standard Detail Drawing List

08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13B02-08B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C08-16A	PAVEMENT MARKING (MAINLINE)



TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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GENERAL NOTES

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

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

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





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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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

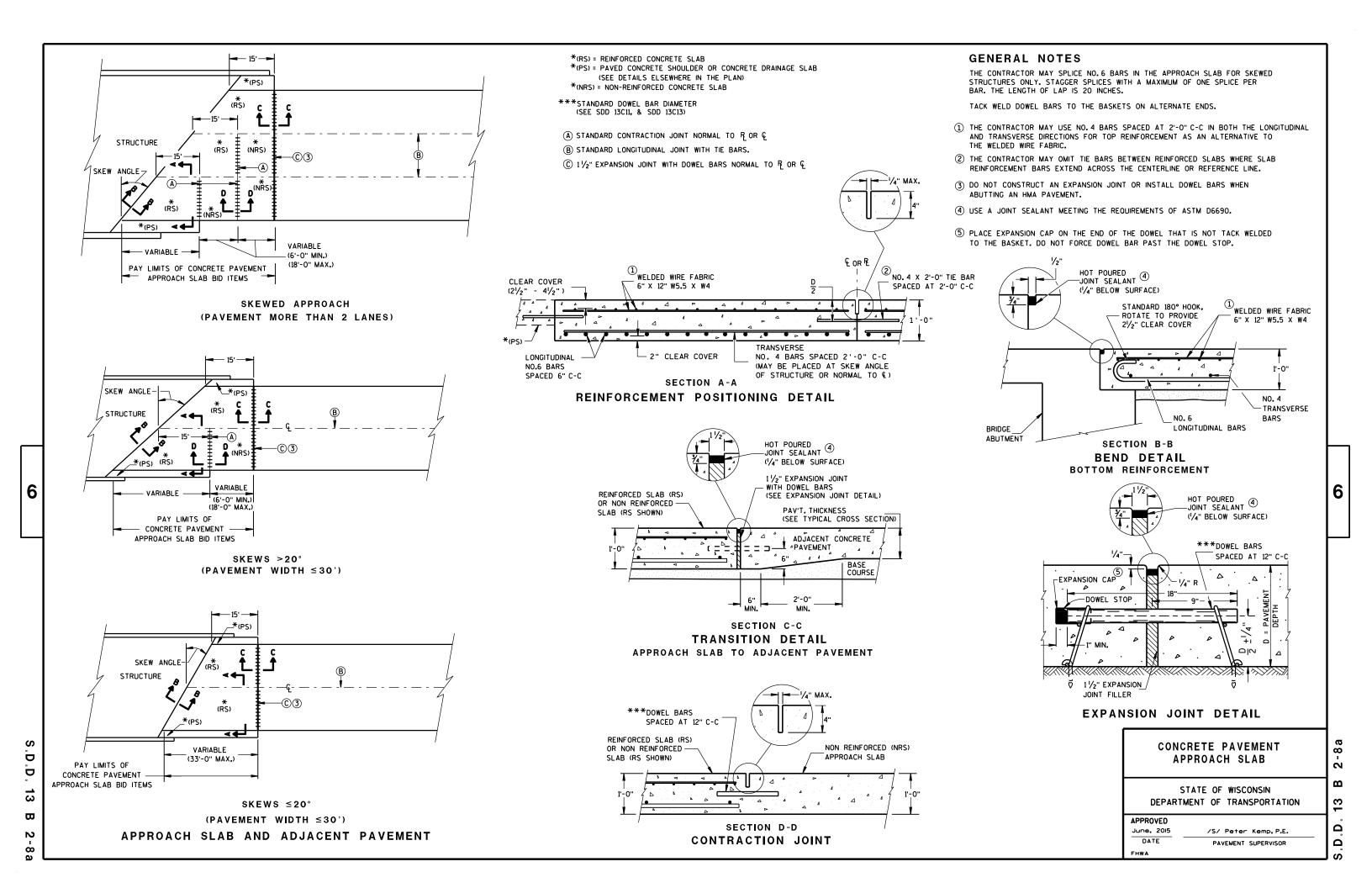
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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10

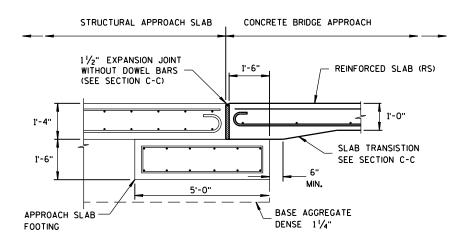


GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

- 1 SEE BRIDGE PLAN.
- (2) CONFORM TO SHEET 13 B 2(A) FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS.
- 3 DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- © 11/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO P OR &
- D 1 1/2" EXPANSION JOINT (NO DOWELS)

BRIDGE APPROACHES



SECTION E-E

FOOTING DETAIL

STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
June, 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPERVISOR

D.D. 13 B 2-8b

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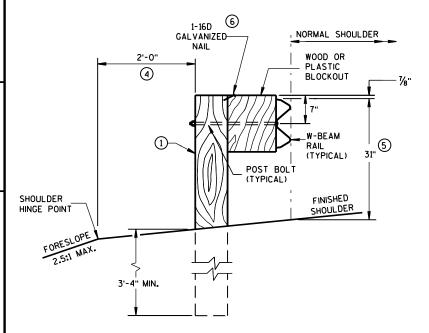
.D.D. 13

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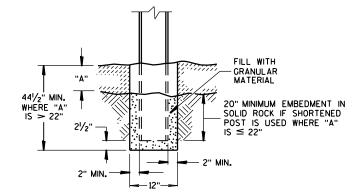
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

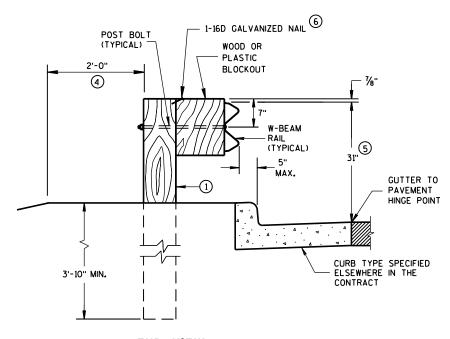


END VIEW

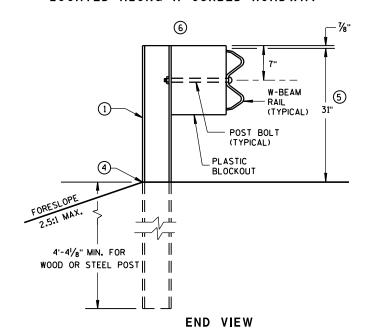
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



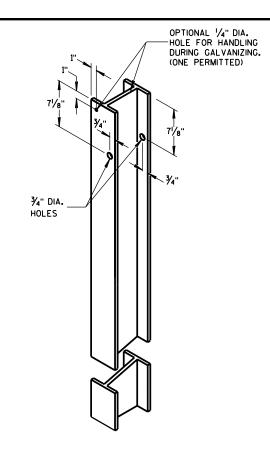
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



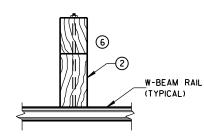
END VIEW
LOCATED ALONG A CURBED ROADWAY



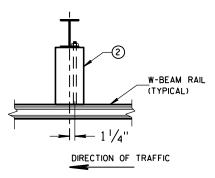
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



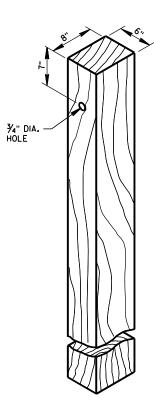
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



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



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

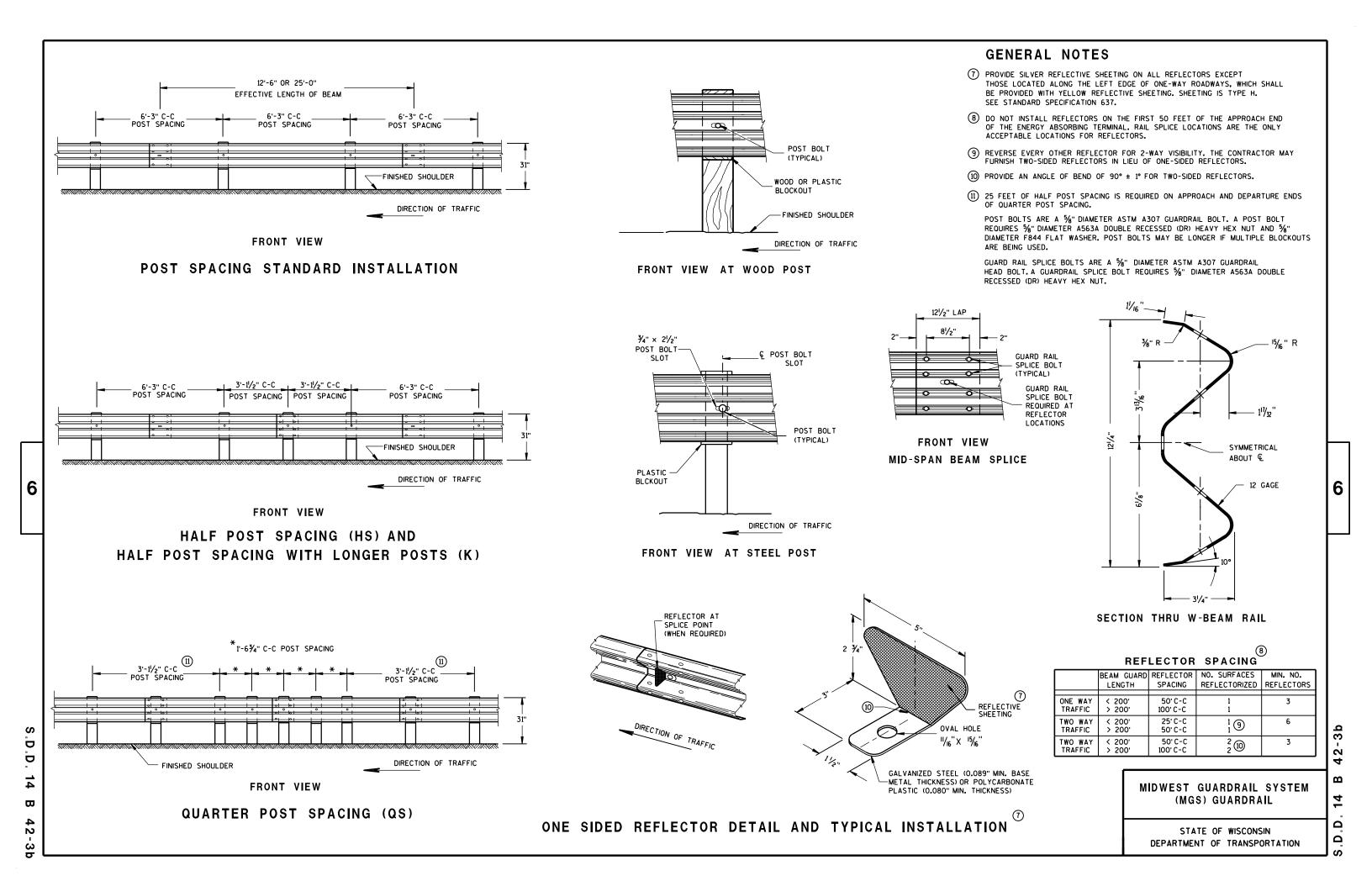
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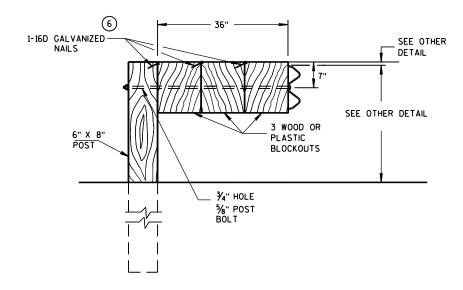
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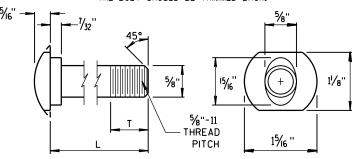


DETAIL FOR 36" BLOCKOUT DEPTH

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

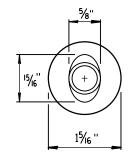
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

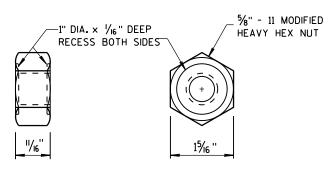


POST BOLT TABLE

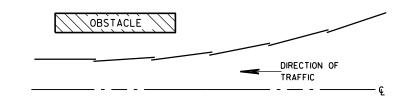
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

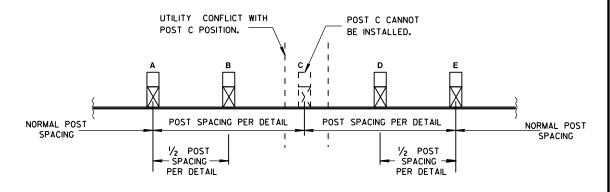


POST BOLT AND RECESS NUT

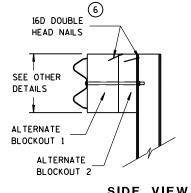


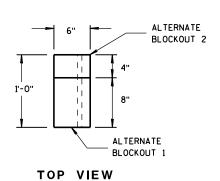
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

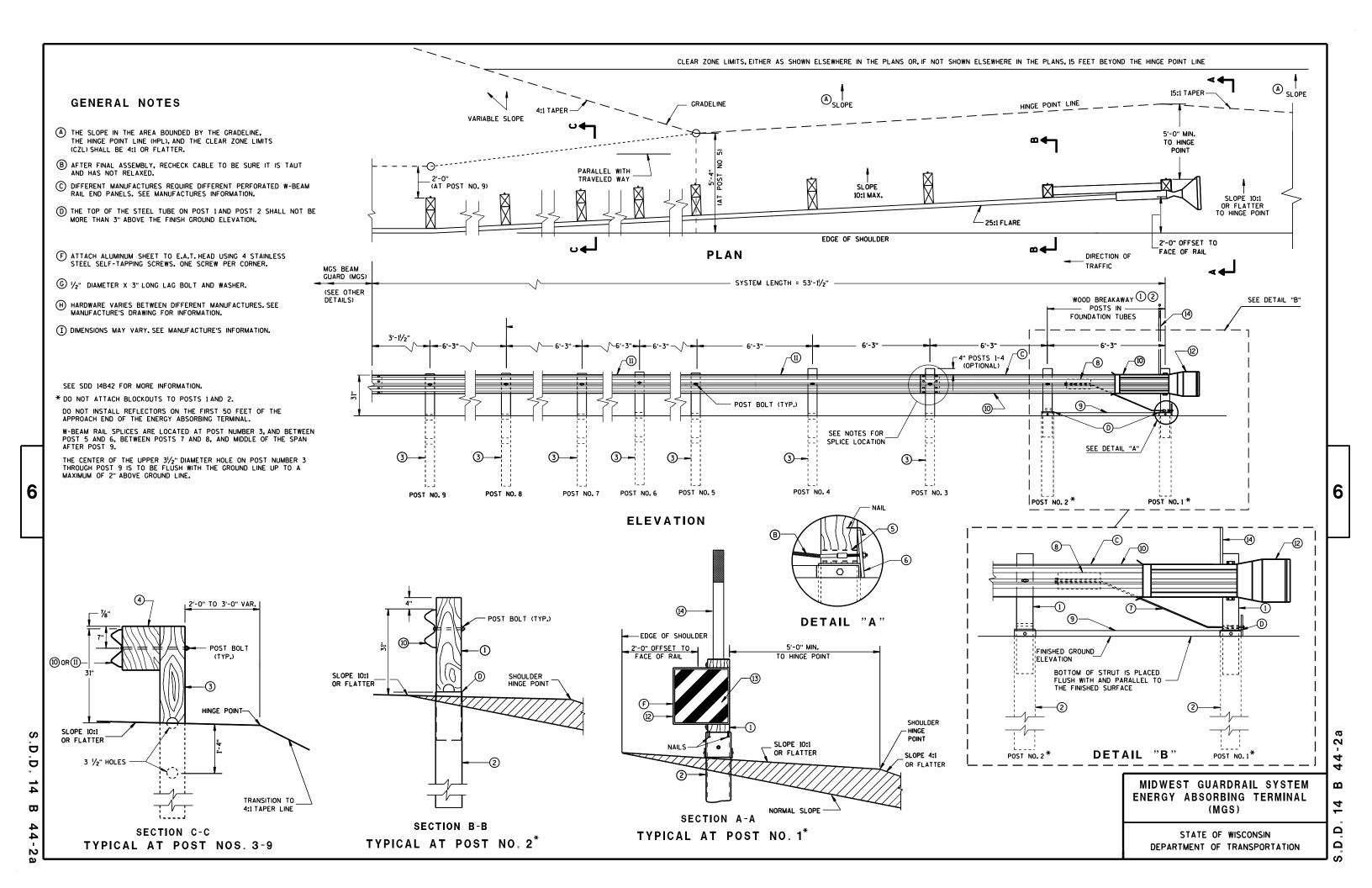
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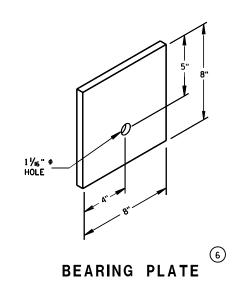
SECTION A-A SECTION B-B

9 H

PLAN VIEW

BILL OF MATERIALS

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

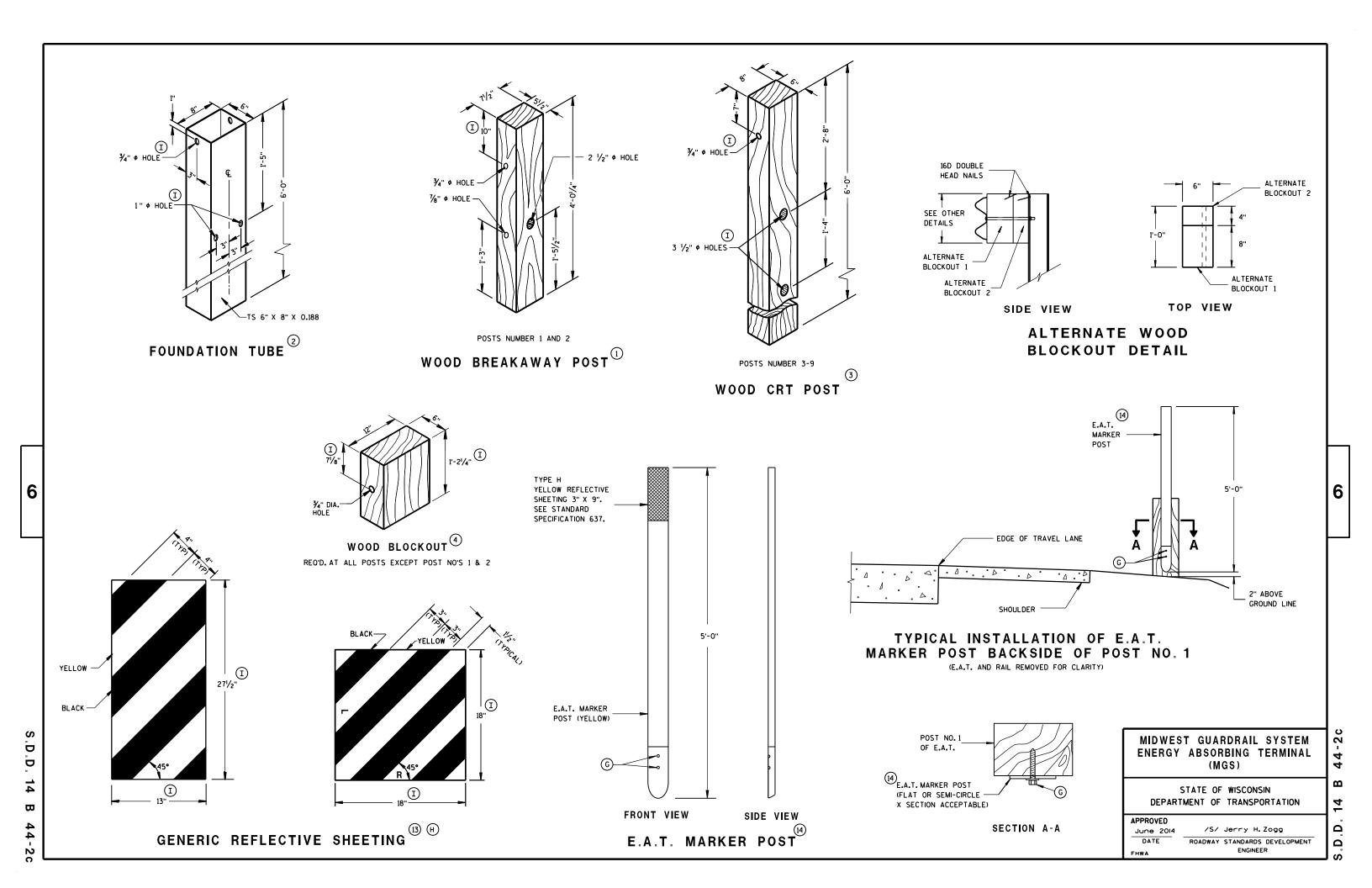


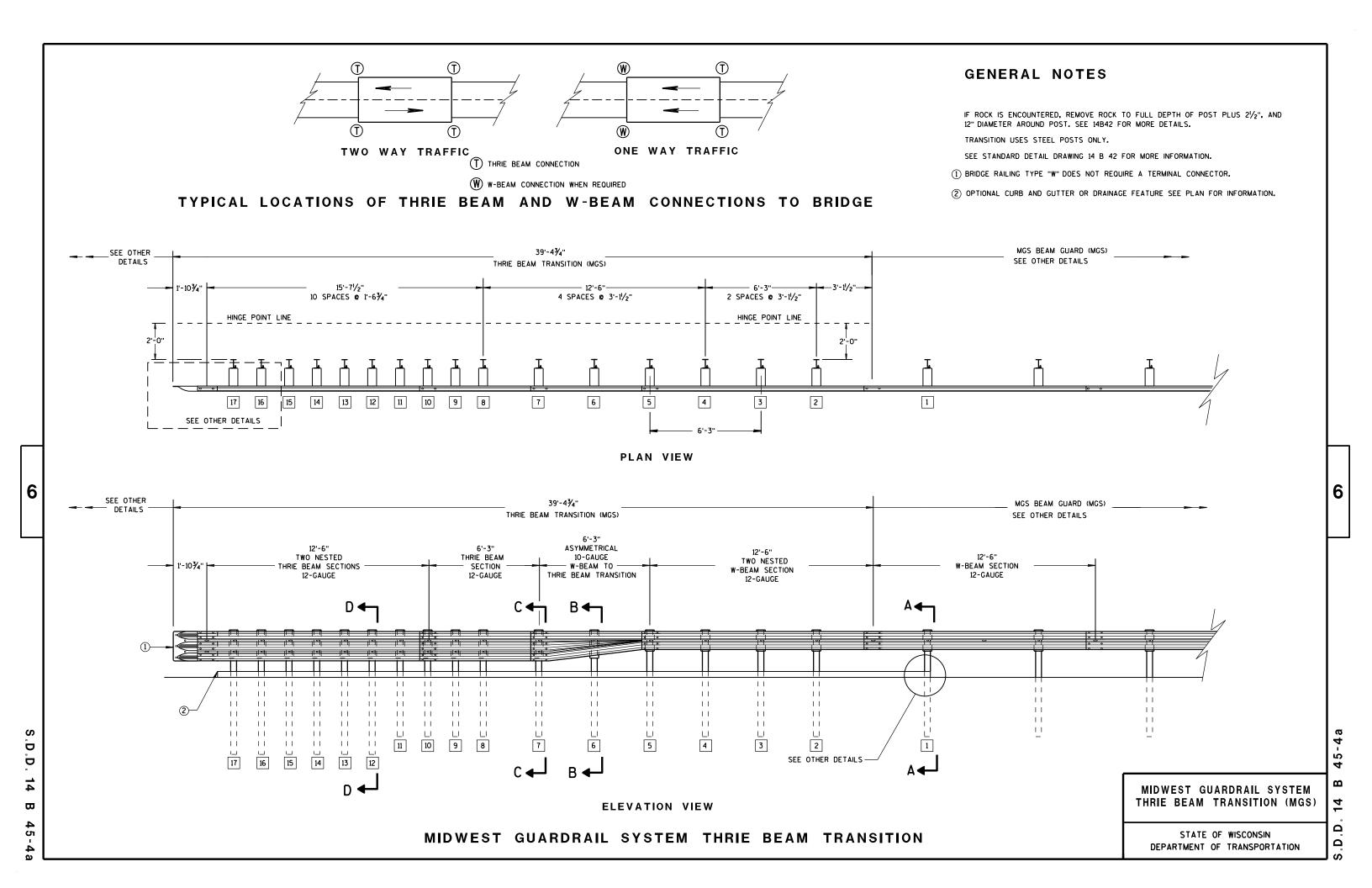
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

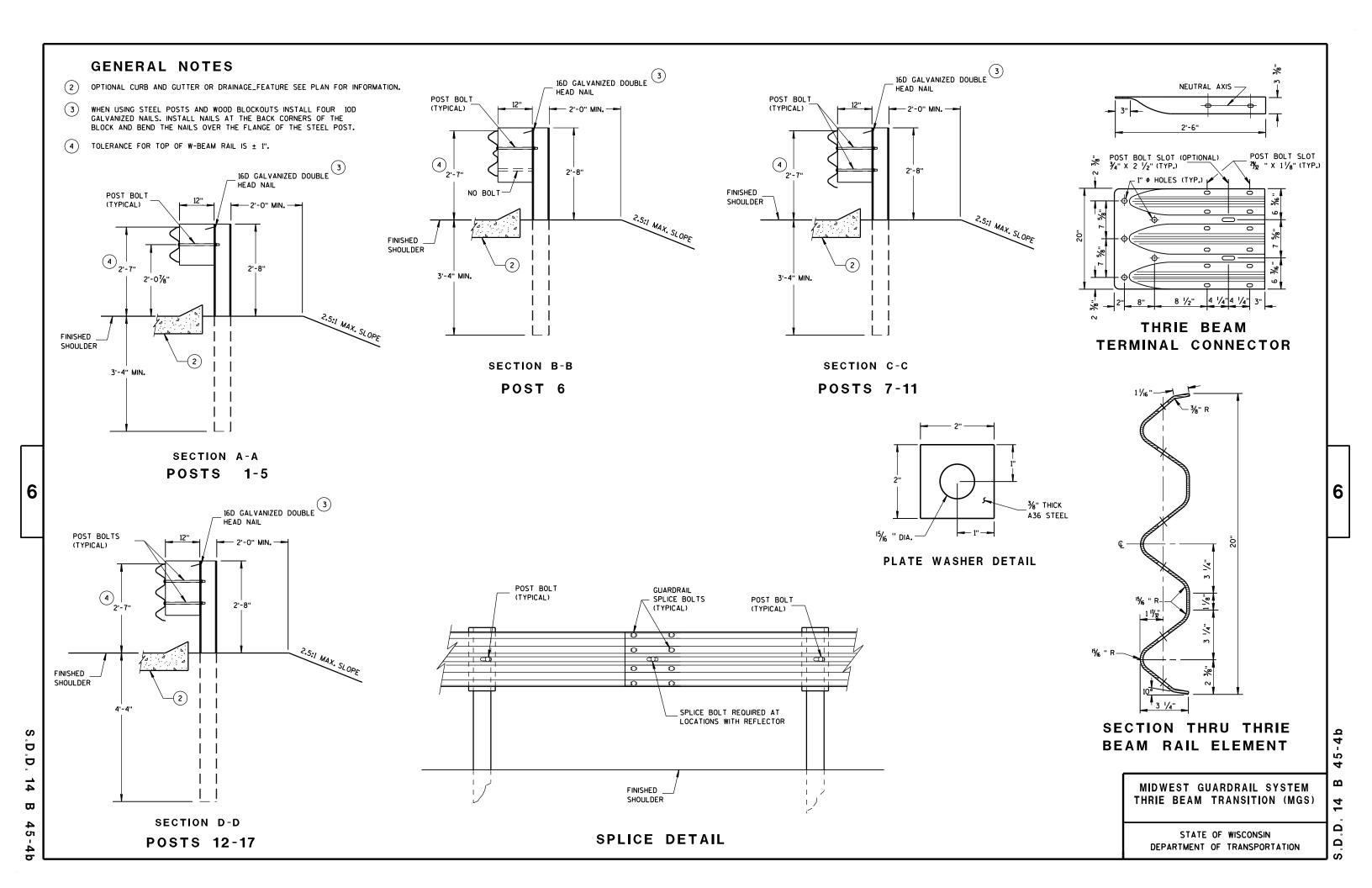
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

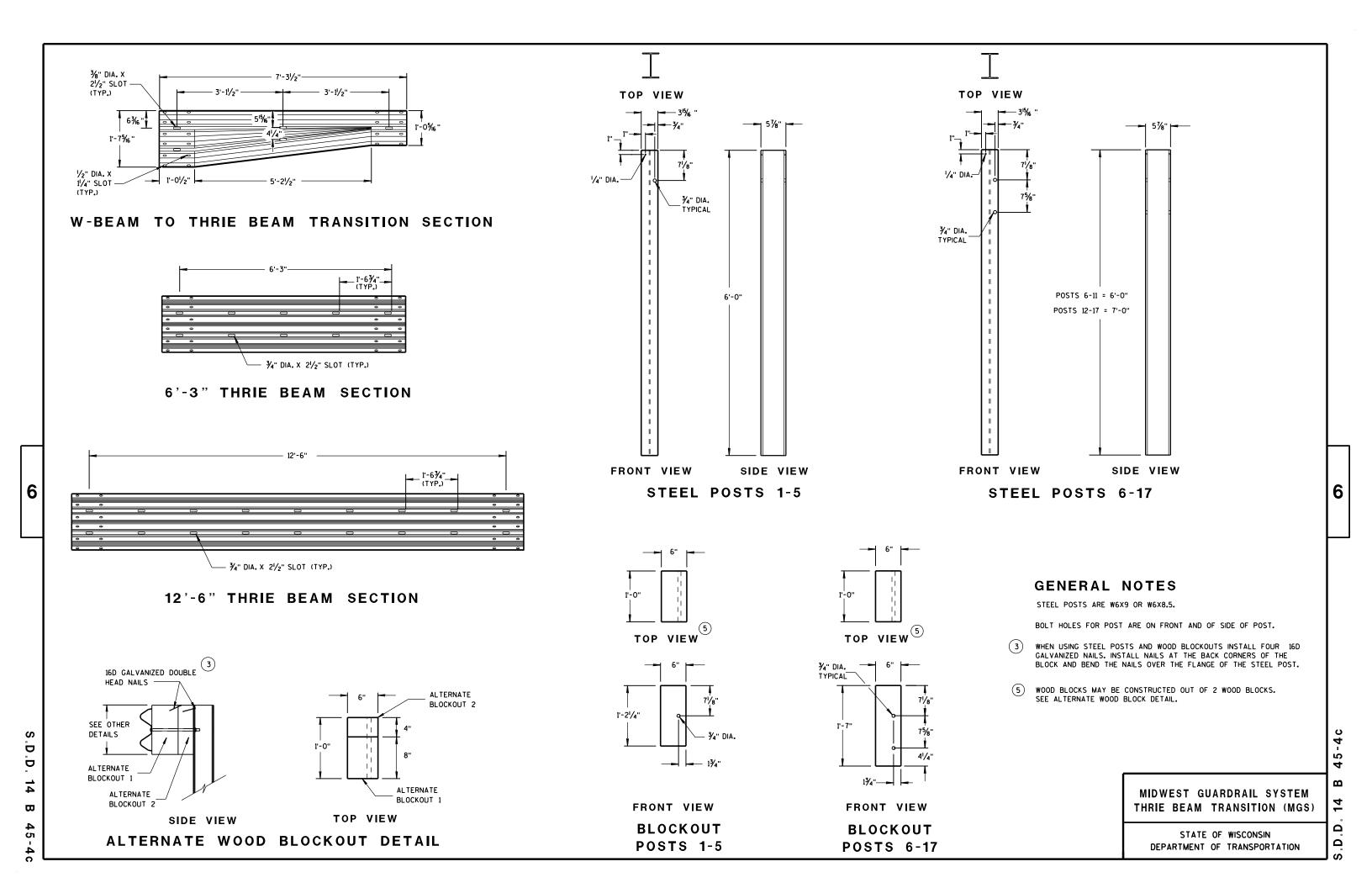
44-2b

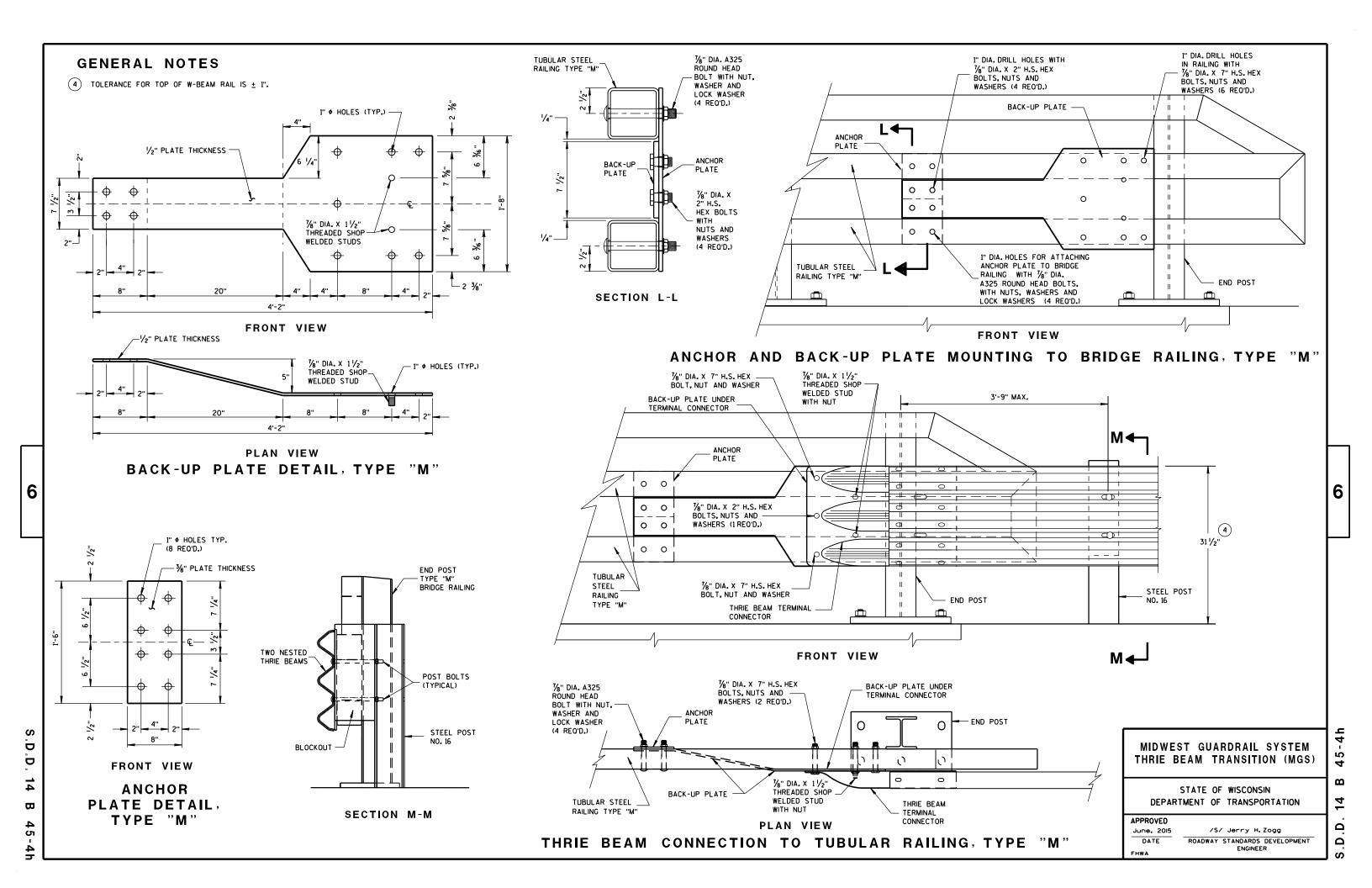
 $\mathbf{\omega}$ 14 ٠٠ ت













ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

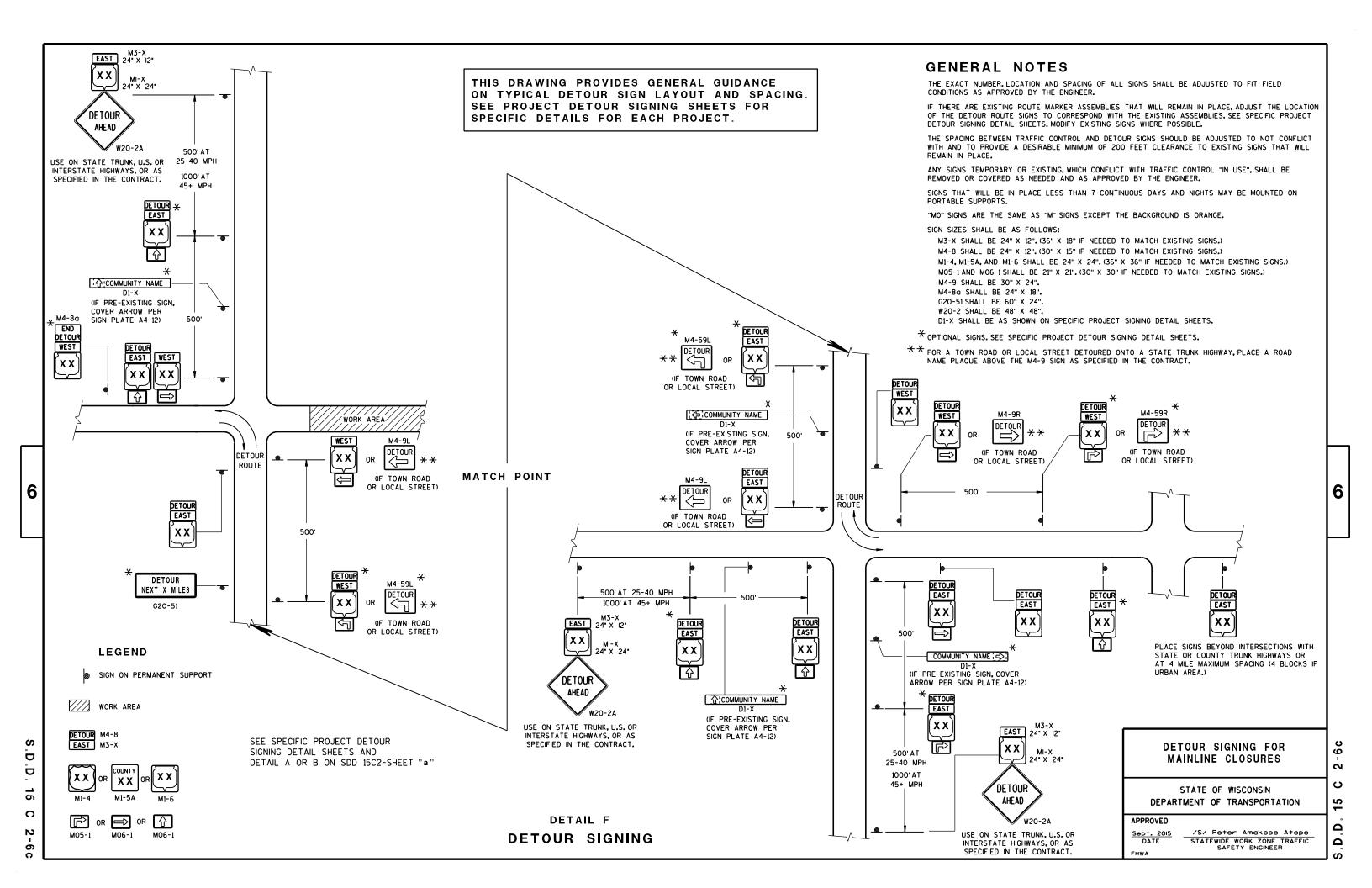
2

Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

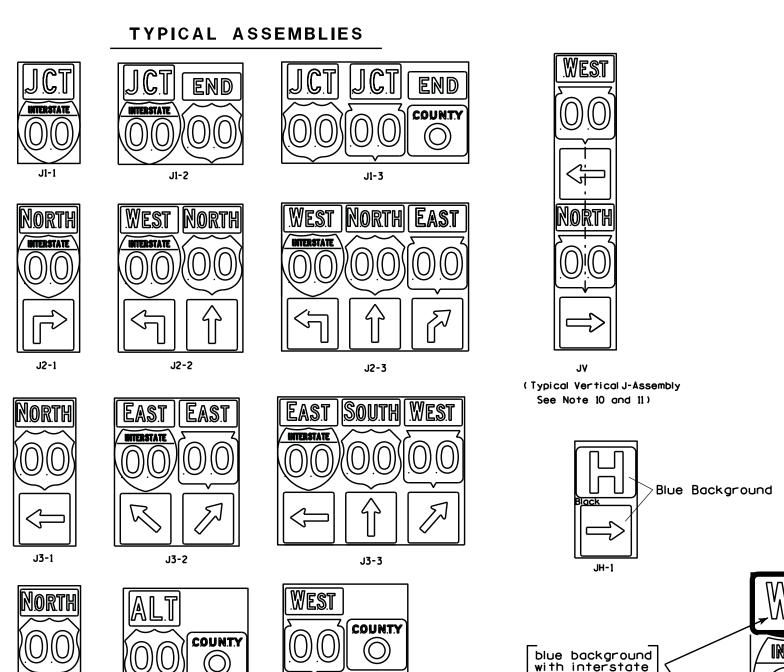




- 1. Signs are Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Black Non-reflective Message - see Note 5

- 3. Message Series See Note 5
- 4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
- 5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- 6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
- 7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- 8. Route assemblies that have 24 inch route shields and have dimensions greater 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.
- 9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- 10. All Vertical J Assemblies are given a Sign Code of JV
- 11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.



TO

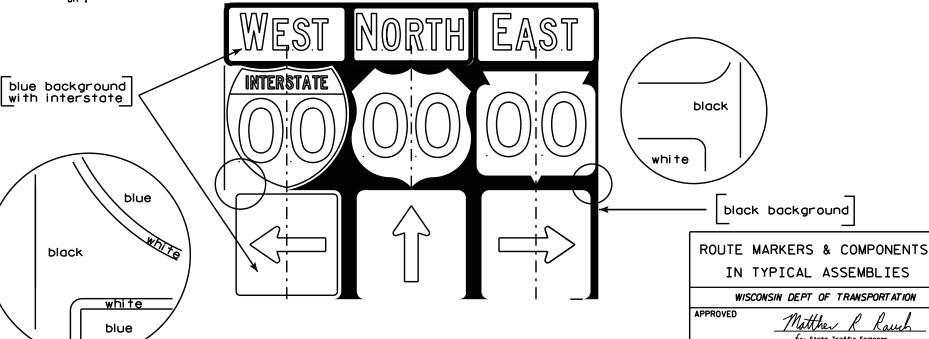
INTERSTATE

J22-1

COUNTY: LAFAYETTE

INTERSTATE

J23-1



PROJECT NO: 5307-00-72

FRONTAGE

ROAD

COUNTY

J13-1

J4-2

EASI

INTERSTATE

J32-1

WESI

INTERSTATE

J33-1

HWY: CTH O

SIGN PLATE

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

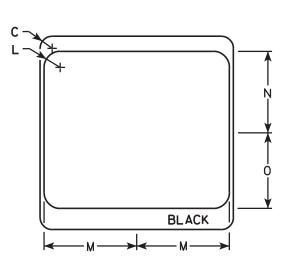
SHEET NO:

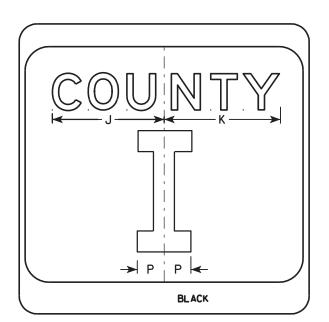
- 1. Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

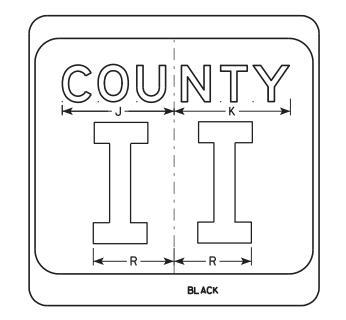
Background - White & Black - See Note 7 Message - Black

- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

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







PLOT NAME :

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																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5%	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 5/8	5	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	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 5/8	5	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
DDA	IECT	NO. 5	007.00	70			111	MV. OTI	10				COUNTY: LAFAYETTE														
PRU	JECI	NO: 5	307-00-	12			HV	NY: CTH	10				COOK	Y	NEAYEI	1 🗀			SIGN	I PLAT	E						

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer PLATE NO. M1-5A.8

DATE 9/27/11

SHEET NO:

BLACK

M1-5A

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

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

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs Background - Type H Reflective Detour or temporary Signs Background - Reflective

	G G H H H H H H H H H H H H H H H H H H
Metric equivalent for this sign is:	

HWY: CTH O

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

900 mm X 900 mm

PROJECT NO: 5307-00-72

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.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 %	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	. 81

COUNTY: LAFAYETTE

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

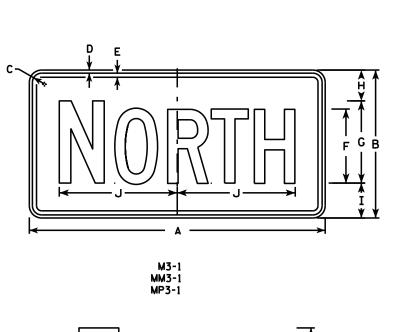
APPROVED

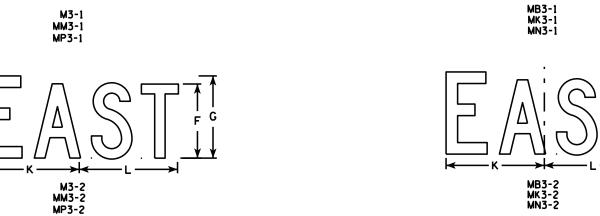
DATE 3/20/02 PLATE NO. M1-6.9

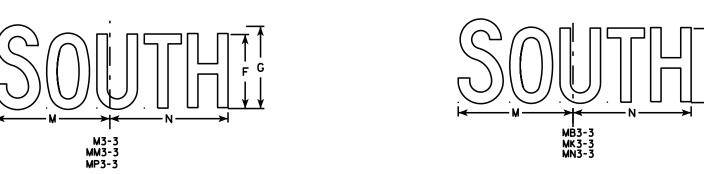
SHEET NO:

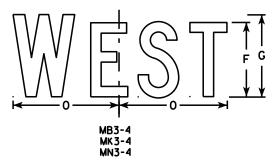
PLOT NAME :

SIGN PLATE









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

Background - See note 5 Message - See note 5

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

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	P	0	R	S	T	U	٧	W	X	Y	Z	Areg sq. ft.
1																											
2	24	12	1 1/8	3/8	3⁄8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 ¾			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 ¾	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 ¾	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3⁄8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY: LAFAYETTE

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PLATE NO. M3-1.14

DATE 10/15/15

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN

PROJECT NO: 5307-00-72

M3-4 MM3-4 MP3-4

HWY: CTH O

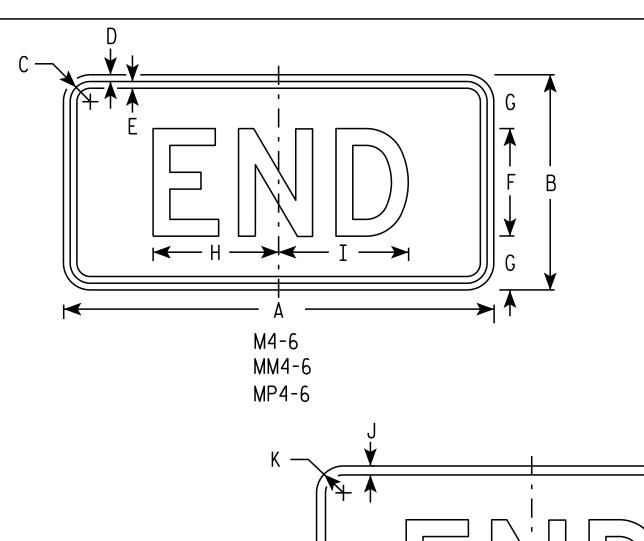
PLOT DATE : 15-0CT-2015 12:16

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

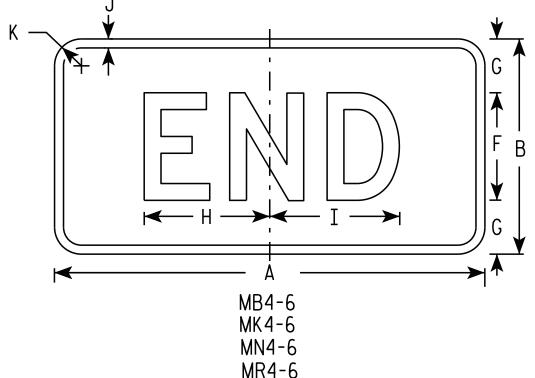
SIGN PLATE

WISDOT/CADDS SHEET 42

PLOT SCALE: 18.607113:1.000000



HWY: CTH O



<u>NOTES</u>

- 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	M	Ŋ	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Areo 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 %	1/2	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

COUNTY: LAFAYETTE

STANDARD SIGN M4-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

For State Traffic Engineer

DATE 10/15/15

5 PLATE NO. M4-7.9
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN

PROJECT NO: 5307-00-72

PLOT DATE : 15-0CT-2015 13:08

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

SIGN PLATE

PLOT SCALE : 8.528262:1.000000

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

Background - Orange Message - Black

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

	' l
	B
H	· • • • • • • • • • • • • • • • • • • •

С D Е F G H I J 0 S X 3/8 3/8 10 10 1/4 24 1 1/8 2.0 3 36 3/8 4 1/2 14 5/8 14 1/2 4.5 1 1/8 1/2 4

COUNTY: LAFAYETTE

STANDARD SIGN M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer PLATE NO. M4-8.2

DATE 11/10/10

SHEET NO:

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

PROJECT NO: 5307-00-72

HWY: CTH O

PLOT DATE: 10-NOV-2010 13:18

PLOT BY : ditjph

SIGN PLATE

PLOT NAME :

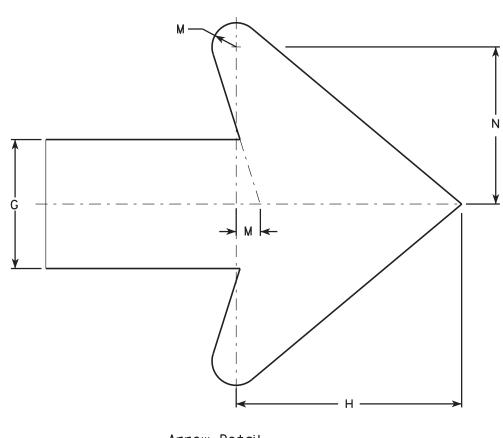
PLOT SCALE: 4.767233:1.000000

WISDOT/CADDS SHEET 42

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

Background - Orange Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	Α	В	С	D	Е	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																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0

M4-9R

APPROVED

Matthew R

For State Traffic Engineer PLATE NO. M4-9R.4 DATE 3/9/11

SHEET NO:

STANDARD SIGN M4-9 R & L WISCONSIN DEPT OF TRANSPORTATION

PROJECT NO: 5307-00-72

HWY: CTH O

COUNTY: LAFAYETTE

SIGN PLATE

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

PLOT DATE: 09-MAR-2011 11:17 PLOT BY: mscj9h PLOT NAME :

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42



- 1. Signs are Type II Type H reflective 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. M5-1 and M5-2 Background - White Message - Black

MB5-1 and MB5-2 Background - Blue

Message - White

MK5-1 and MK5-2 Background - Green

Message - White

MM5-1 and MM5-2 Background - White

Message - Green

MN5-1 and MN5-2 Background - Brown

Message - White

M05-1 and M05-2 Background - Orange - Type F Reflective Message - Black

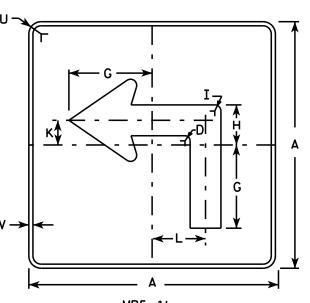
MP5-1 and MP5-2 Background - White - Type H Reflective Message - Blue

MR5-1 and MR5-2 Background - Brown

Message - Yellow

- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

 c —
 ←
M5-2L MM5-2L M05-2L



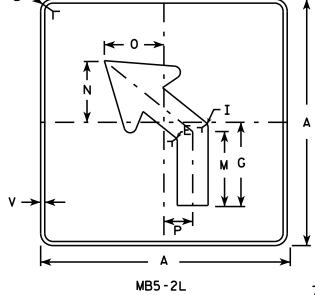
M5-1L MM5-1L

MO5-1L

MP5-1L

MB5-1L MK5-1L MN5-1L MR5-1L

HWY: CTH O



MP5-2L

MK5-2L

MN5-2L

MR5-2L

<u> </u>	R	
₹ <	- → <u>+</u> E	
	- N → I	

SIGN PLATE

SIZE		A	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																												
2	2	21		1 1/8	3/8	3/8		7	3 %	5/8		2 1/8	4 1/2	6 %	5 1/4	5	2 1/2		1/2	2 %	3	1 1/2	1/2					3.06
3	3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	1 / ₈		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 %	1/2					6.25
4	3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	1 /8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 %	1/2					6.25
5	3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	½		3	6 1/2	9 1/8	7 1/2	7 1/4	3 ½		₹4	3 3/4	4 1/4	1 1/8	1/2					6.25

COUNTY: LAFAYETTE

STANDARD SIGN

M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

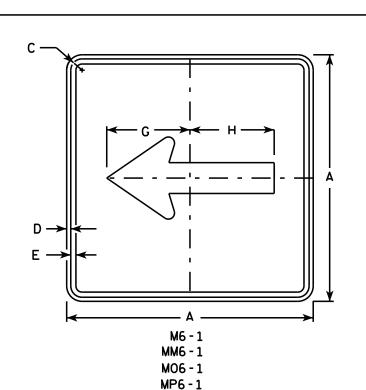
APPROVED

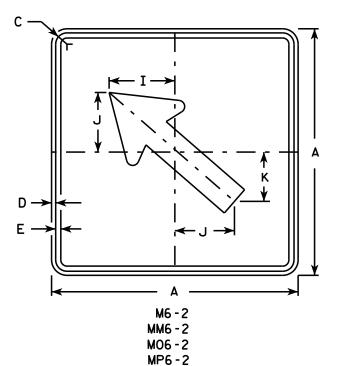
for State Traffic Engineer

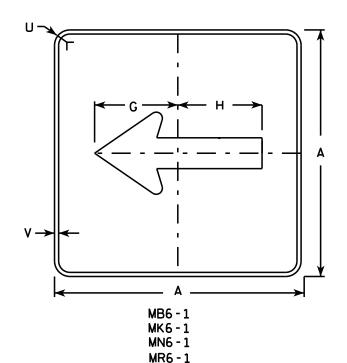
PLATE NO. M5-1.13 DATE 10/15/15

SHEET NO:

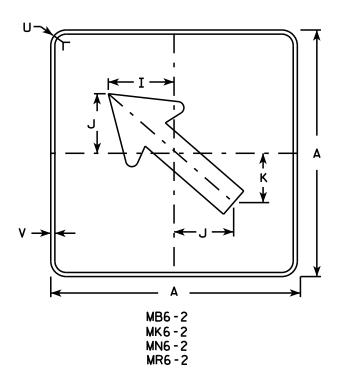
PROJECT NO: 5307-00-72







HWY: CTH O



<u>NOTES</u>

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

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

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

Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow

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←	- L →	

SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Areo sq. ft.
1																											
2	21		1 1/8	3⁄8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
4	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
5	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25

COUNTY: LAFAYETTE

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

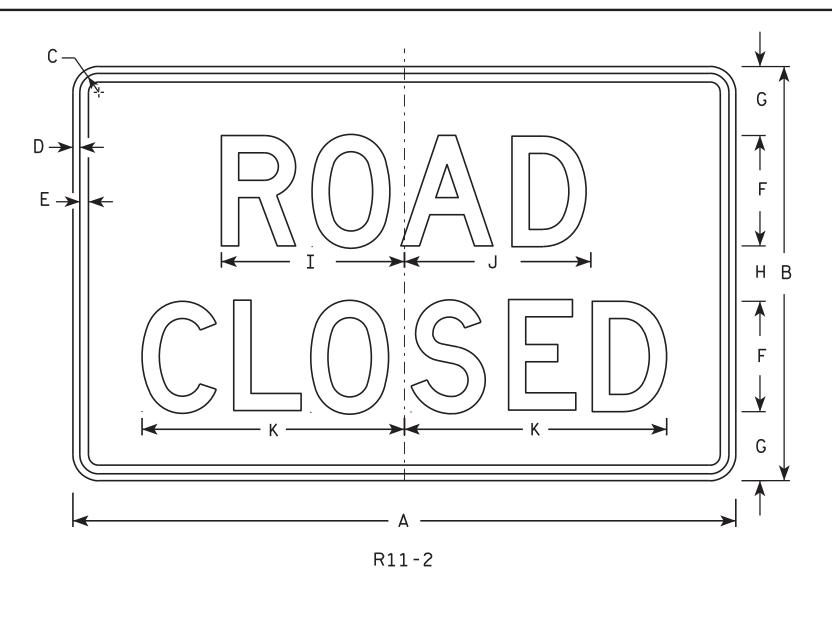
Matther R Rauch
for State Traffic Engineer

DATE 10/15/15

15 PLATE NO. M6-1.15
SHEET NO:

PROJECT NO: 5307-00-72

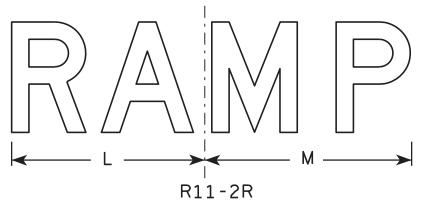
SIGN PLATE

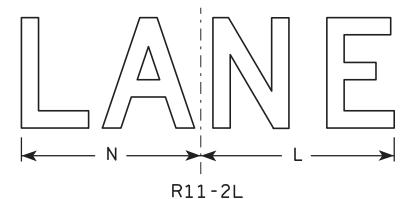


- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Modify the message as required.





	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
	4	13 1/4	13 1/2	19	14	15	13													10.0
	4	13 1/4	13 1/2	19	14	15	13													10.0
	4	13 1/4	13 1/2	19	14	15	13													10.0
	4	13 1/4	13 1/2	19	14	15	13													10.0
7	4	13 1/4	13 1/2	19	14	15	13													10.0

WISCONSIN DEPT OF TRANSPORTATION Matthew & Ray

STANDARD SIGN R11-2

DATE 4/1/11 PLATE NO. R11-2.10

HWY: CTH O

COUNTY: LAFAYETTE

SIGN PLATE

PLOT NAME :

SHEET NO: PLOT SCALE: 6.952219:1.000000

30 1 3/8

30 1 3/8

30 1 3/8

30 1 3/8

30 1 3/8

PROJECT NO: 5307-00-72

48

48

48

48

3

D

1/2

1/2

1/2

1/2

1/2

E F

8

5

5

5

5/8

5/8

5/8

5/8

5/8

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

Background - White Message - Black

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

C —	<u> </u>
	$\begin{array}{c c} & & & \\ \hline & & \\ \hline & & \\ \hline & & & \\ \hline & &$
R11-2B	

HWY: CTH O

SIZE A Areo sq. ft. В С D G н | I J 0 0 S 30 | 1 3/8 | 1/2 5/8 4 | 19 3/4 | 9 3/4 | 9 3/8 10.0 48 8 2M 5/8 48 1 3/8 1/2 8 5 19 3/4 9 3/4 9 1/8 10.0 30 5/8 3 1 3/8 1/2 19 3/4 9 3/4 9 1/8 48 30 8 5 10.0 5/8 19 3/4 9 3/4 9 7/8 4 1 3/8 1/2 48 30 8 5 10.0 5 1 3/8 19 3/4 9 3/4 9 3/8 1/2 5/8 48 30 4 10.0

STANDARD SIGN

WISCONSIN DEPT OF TRANSPORTATION

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

PROJECT NO: 5307-00-72 FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112B.DGN COUNTY: LAFAYETTE PLOT DATE: 01-APR-2011 14:23

PLOT BY: mscj9h

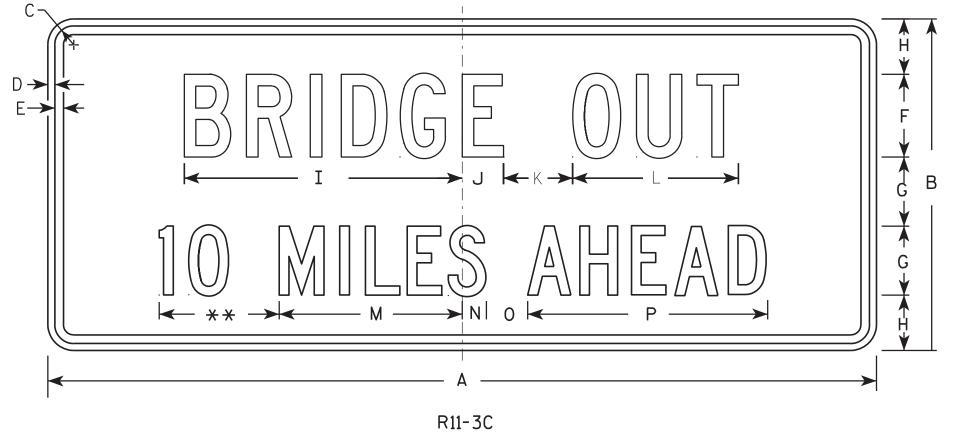
SIGN PLATE

WISDOT/CADDS SHEET 42

R11-2B

Matthew R Rauch

SHEET NO:



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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾											3.75
25	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
3																											
4																											
5																											

COUNTY: LAFAYETTE

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

4/1/11 PLATE NO. R11-3C.2

DATE 4/1/11

SHEET NO:

PROJECT NO: 5307-00-72

FILE NAME: C:\Users\PROJECTS\tr_stdplate\R113C.DGN

HWY: CTH O

PLOT DATE: 01-APR-2011 14:15

SIGN PLATE

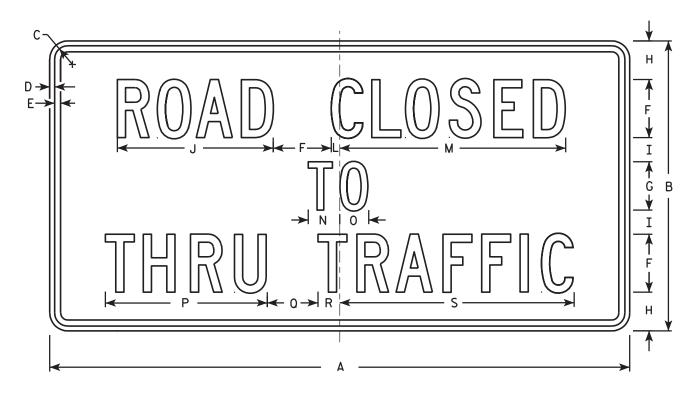
PLOT BY : mscj9h

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 - White Message - Black

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



R11-4

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

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

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

PROJECT NO: 5307-00-72

HWY: CTH O

COUNTY: LAFAYETTE

SIGN PLATE

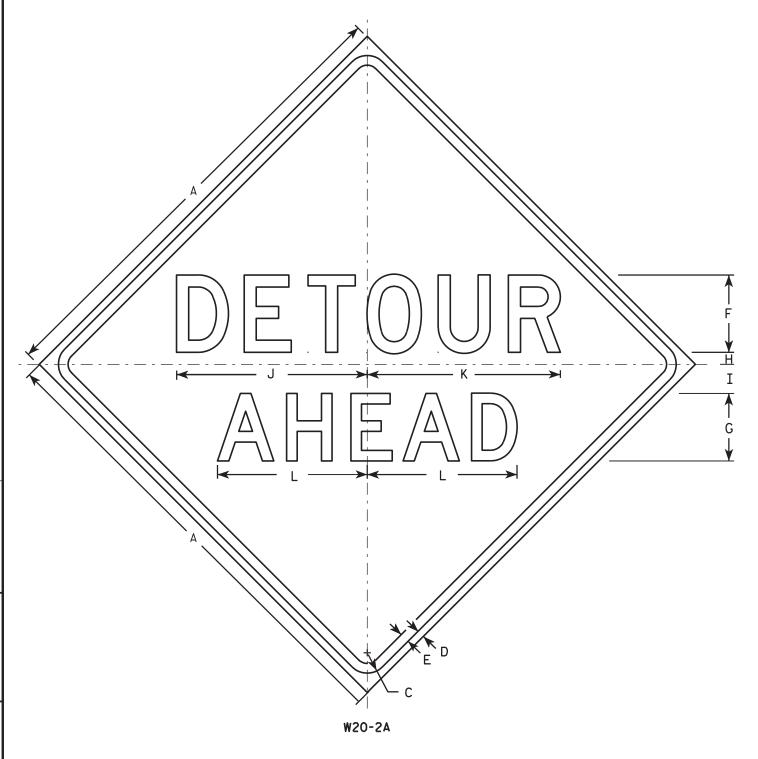
PLOT NAME :

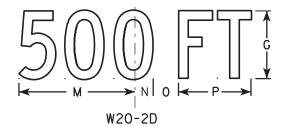
PLOT SCALE: 9.931739:1.000000

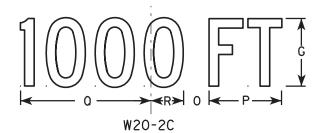
WISDOT/CADDS SHEET 42

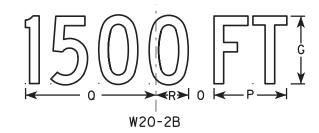
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN

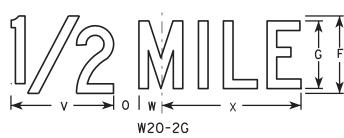
PLOT BY: mscj9h PLOT DATE: 01-APR-2011 14:11

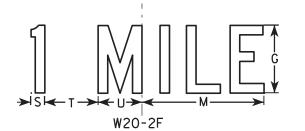












- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 %	9	1 3/8	1 %	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
25	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 %	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	3∕4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8			16.0

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

WISCONSIN DEPT OF TRANSPORTATION

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

PROJECT NO: 5307-00-72

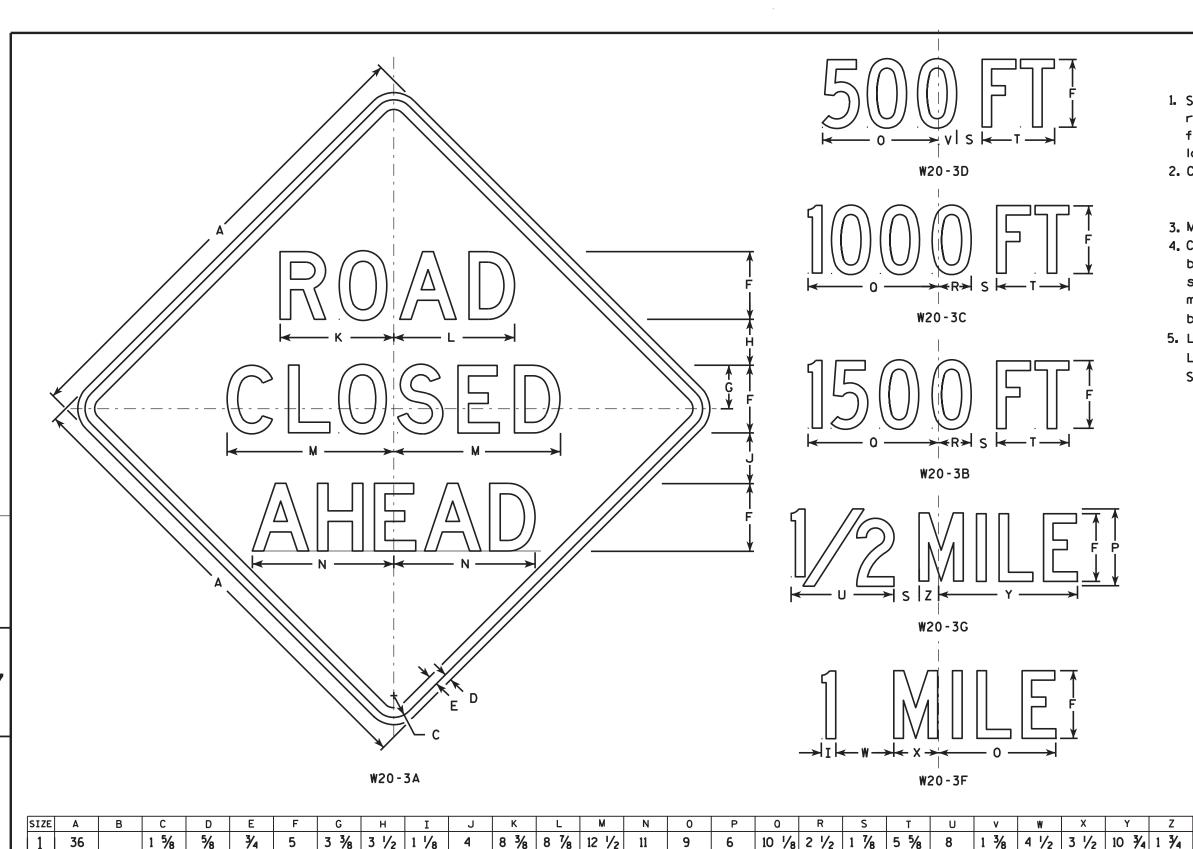
HWY: CTH O

COUNTY: LAFAYETTE

SIGN PLATE

PLOT NAME :

SHEET NO:



1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

NOTES

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

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D.
 Line 3 is Series D for AHEAD and
 Series C for all other distances.

 3 ½
 10 ¾
 1 ¾
 9.0

 4 5%
 14 ¾
 2 ¾
 16.0

 4 5%
 14 ¾
 2 ¾
 16.0

 4 5%
 14 ¾
 2 ¾
 16.0

 4 5%
 14 ¾
 2 ¾
 16.0

 4 5%
 14 ¾
 2 ¾
 16.0

 4 5%
 14 ¾
 2 ¾
 16.0

 4 5%
 14 ¾
 2 ¾
 16.0

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: 5307-00-72

48

48

48

2M

5

HWY: CTH O

COUNTY: LAFAYETTE

12

SIGN PLATE

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

7 1/2

7 1/2 10 5/8 1 7/8

7 1/2 10 5/8 1 7/8

10 % 1 %

2 5/8

2 %

PLOT NAME :

PLOT SCALE: 9.931739:1.000000 WISDOT CO

2 1/4

2 1/4

3/4

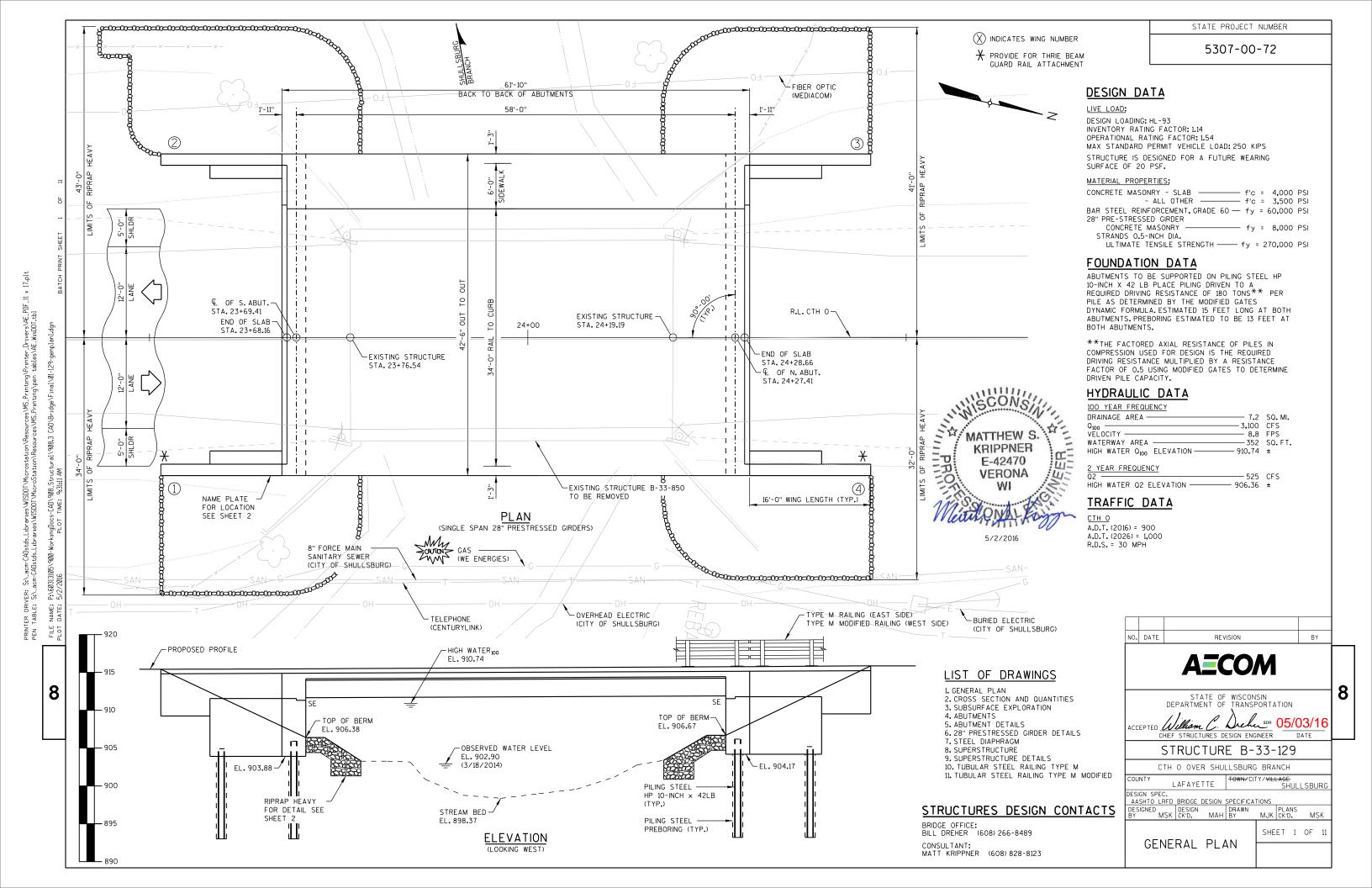
3/4

3/4

3/4

3/4

13 1/2 3 3/8 2 5/8



5307-00-72

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TYPE 'HR' TO THE LIMITS SHOWN ON SHEET 1 OR AS DIRECTED BY THE

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

THE EXISTING STRUCTURE (B-33-850) IS A SINGLE SPAN CONCRETE DECK GIRDER STRUCTURE, 43.0'LONG × 28.0'WIDE.

AT THE BACKFACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

EXCAVATION REQUIRED UNDER THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-33-129" IS NOT USED TO BALANCE THE EARTHWORK.

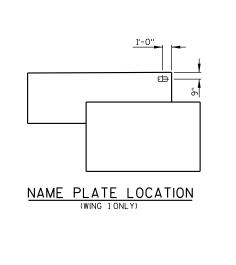
ALL EXISTING UTILITIES IN CONFLICT WITH PROPOSED STRUCTURE TO BE RELOCATED PRIOR TO CONSTRUCTION (BY OTHERS).

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE, SIDE OF DECK AND UNDERSIDE OF OVERHANG.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESS FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M153, TYPES I, II OR III,

OR M213. ALL REQUIRED REMOVAL OF THE EXISTING SUBSTRUCTURES IS INCLUDED IN THE BID ITEM "REMOVING

THE QUANTITY OF BACKFILL STRUCTURE, BID ITEM 210.0100, IS CALCULATED BASED ON THE APPLICABLE FIGURES 12.6-1 AND 12.6-2 IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL.



CROSS SECTION THRU BRIDGE

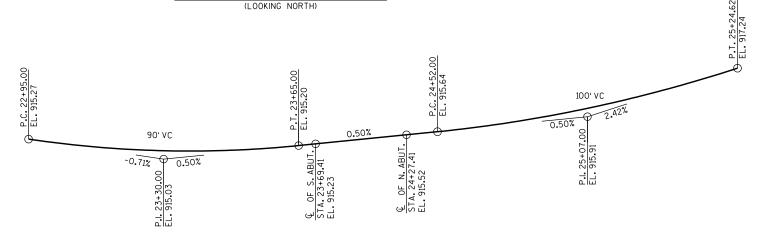
8 SPACES AT 5'-0" = 40'-0"

28-INCH PRESTRESSED GIRDERS

42'-6" OUT TO OUT DECK

12'-0"

LANE



12'-0'

-POINT REFFERED TO ON

PROFILE GRADE LINE

⊢R.L. CTH O

5'-0"

SHOULDER

TUBULAR STEEL

RAILING TYPE "M"

SEE SHEET 10

FOR DETAILS

PROFILE GRADE LINE, CTH O

TOTAL ESTIMATED QUANTITIES

1'-3"

1'-3"

TUBULAR STEEL RAILING-TYPE "M" MODIFIED

SEE SHEET 11

FOR DETAILS

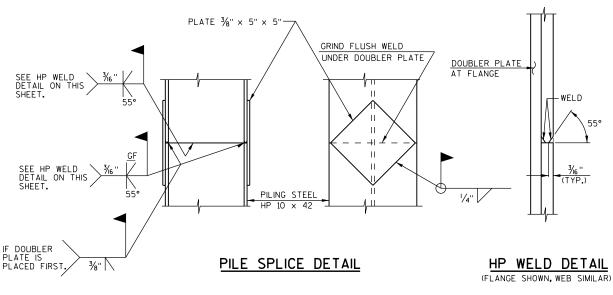
6'-0"

SIDEWALK

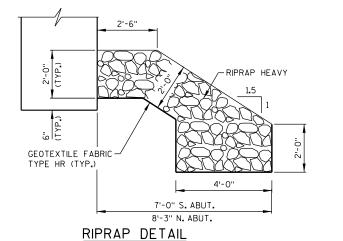
5'-0"

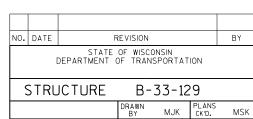
SHOULDER

BID ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUTMENT	NORTH ABUTMENT	SUPER.	TOTALS
203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS, STATION 24+00	LS				
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-33-129	LS				
210.0100	BACKFILL STRUCTURE	CY	200	200		40
502.0100	CONCRETE MASONRY BRIDGES	CY	65	65	105	23
502.3200	PROTECTIVE SURFACE TREATMENT	SY			362	36
503.0128	PRESTRESSED GIRDER TYPE I 28-INCH	LF			531	53
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	3,120	3,120		6,24
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,365	2,365	17,020	21,75
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	9	9		
506.4000	STEEL DIAPHRAGMS B-33-129	EACH			8	
513.4061	RAILING TUBULAR TYPE M B-33-129	LF	16	16	62	Ç
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	11		2
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	104	104		20
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	120	120		24
606.0300	RIPRAP HEAVY	CY	130	125		25
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75	75		15
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	200	185		38
SPV.0090.01	RAILING TUBULAR TYPE M MODIFIED B-33-129	LF	16	16	62	Ċ
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/



OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS, STATION 24+00".





CROSS SECTION AND QUANTITIES

St.acm-CADstds.Libraries\WISDOT\Microstation\Resources\MS.Pr.acm-CADstds.Libraries\WISDOT\MicroStation\Resources\MS.Printir

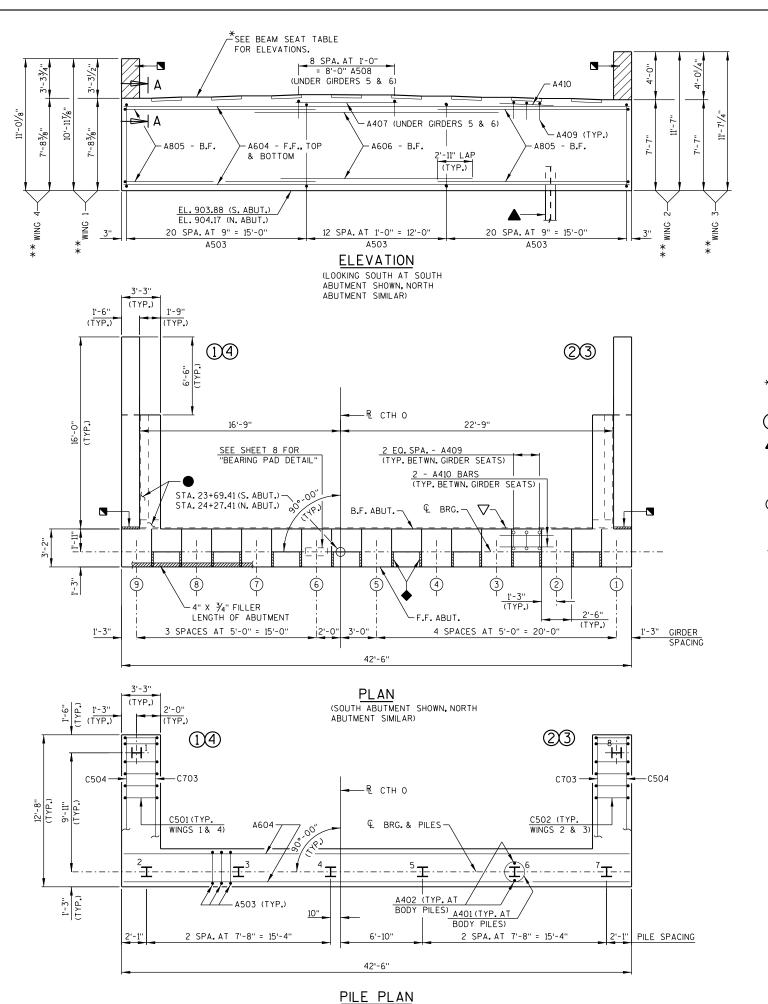
rinting\Printer_Drivers\AE_PDF ng\pen tables\AE_WisDOI.tbl

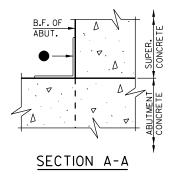
-006

8

SHEET 2 OF 11

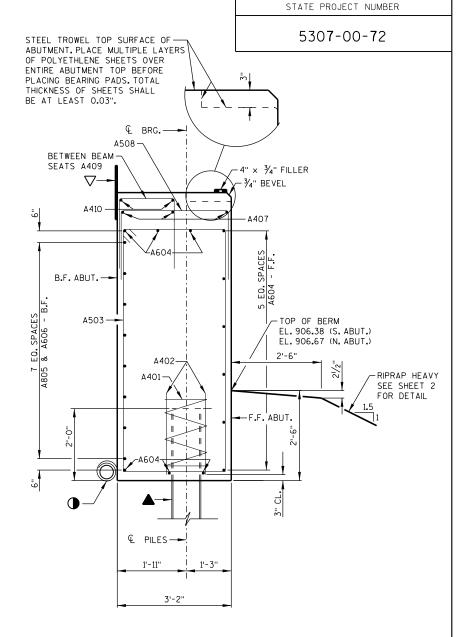




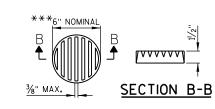


LEGEND

- * ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE $\ensuremath{\mathbb{Q}}$ OF BEARING.
- ** DIMENSIONS ARE GIVEN AT THE B.F. OF ABUTMENT. FOR WING DETAILS AND ELEVATIONS, SEE SHEET 5.
- X INDICATES WING NUMBER.
- ABUTMENTS TO BE SUPPORTED ON HP 10 × 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES FORMULA. ESTIMATED 15'-O" LONG AT BOTH ABUTMENTS.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE, ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE RODENT SHIELD DETAIL ON THIS SHEET.
- THE RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON
- PLACE BOTTOM HALF OF RUBBERIZED MEMBRANE WATERPROOFING HORIZONTAL IN THIS AREA. SEE SECTION A-A ON THIS SHEET.
- ♦ ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.



TYPICAL SECTION THRU BODY



RODENT SHIELD DETAIL

***DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER, A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

* E	BEAM SEAT	TABLE
GIRDER NO.	SOUTH ABUTMENT ELEVATIONS	NORTH ABUTMENT ELEVATIONS
1	911.46	911.75
2	911.56	911.85
3	911.66	911.95
4	911.76	912.05
5	911.86	912.15
6	911.88	912.17
7	911.78	912.07
8	911.68	911.97
9	911.58	911.87

NO. DATE REVISION BY

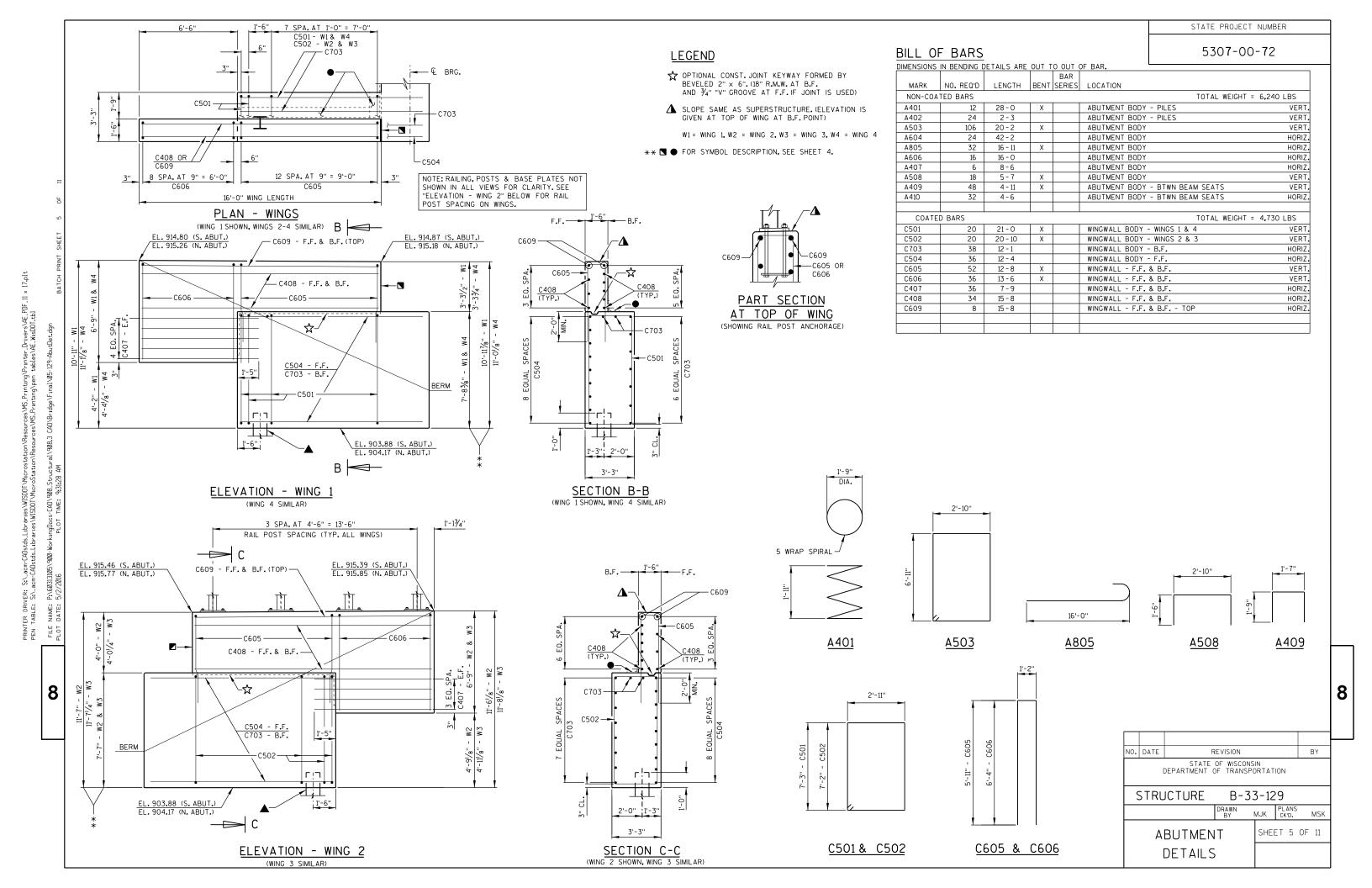
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-33-129

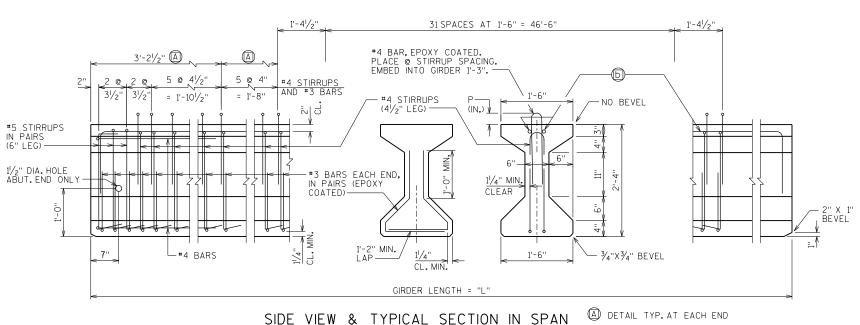
DRAWN MJK PLANS MSK SHEET 4 OF 11

ABUTMENTS

8



5307-00-72



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ALL PATTERNS ARE SYM. ABOUT

8-248

10-310

12-37

DRAPED PATTERN

0.5" FTRANDS

8

7 SPA. @ 2

TYP. STRAND PATTERN

8-248

10-310

12-372

14-434

16-496

FOR DRAPED PATTERN ONLY

-TOTAL NO. "OF STRANDS

TOTAL INITIAL PRESTRESS

14-434

16-496

18-558

UNDRAPED PATTERN

0.5"¢ STRANDS

FORCE IN KIPS.

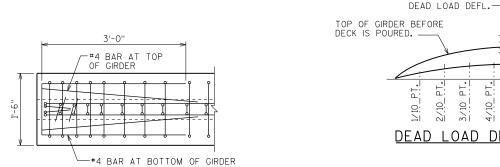
- 000

DRAPE ALL STRANDS ON THESE TWO LINES

00

A DETAIL TYP. AT EACH END

(b) 2 - no. 4 BARS BEND DOWN 16 BAR DIA. AT ENDS



TOP VIEW OF GIRDER ENDS

- HOLD DOWN POINT

SYM ABOUT

MIDSPAN OF GIRDER

CENTER OF GRAVITY OF

DRAPED STRANDS

DECK, SIDEWALKS AND PARAPET ARE POURED. Д. 2 DEAD LOAD DEFLECTION DIAGRAM

TOP OF GIRDER AFTER

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE

SPAN CAMBER (IN.) → 1 1.78	3511	E PLAC	EMENI.	
1 1.78		SPAN	CAMBER	(IN.) X
		1	1.78	

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 2" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH, AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 2" OF THE TOP

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR STRANDS SHALL BE FLOSH WITH END OF GIRDER, FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER, FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

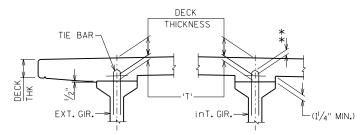
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.5" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

BEND EACH END OF #4 STIRRUPS $4\frac{1}{2}$ " AND #5 STIRRUPS 6".

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.



DECK HAUNCH DETAIL

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

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

- TOP OF DECK ELEV. AT FINAL GRADE TOP OF GIRDER ELEVATION
- + DEAD LOAD DEFLECTION
- DECK_THICKNESS
- = HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF $2\frac{1}{2}$ " WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

DRAPED STRAND PROFILE

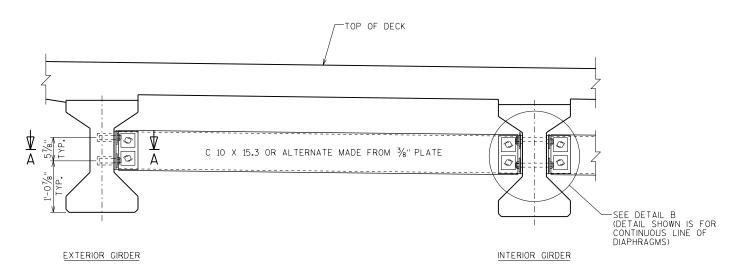
BOTTOM OF GIRDER→

END OF GIRDER -

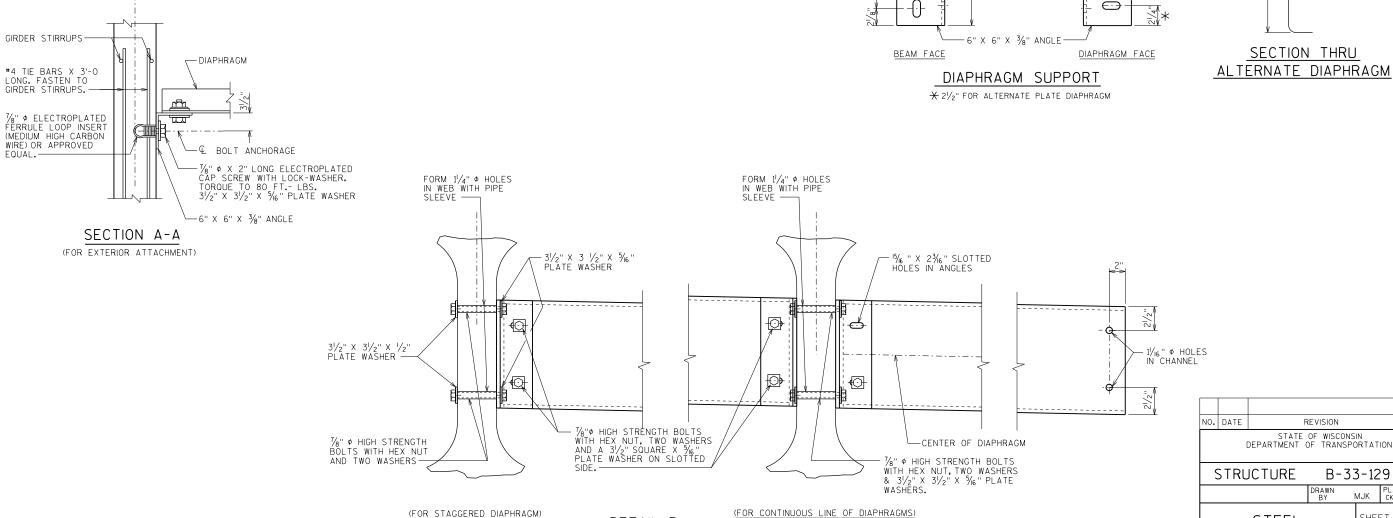
* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

												GIRE	DER D	ΑΤΑ										
	GIRDER DEAD LOAD DEFL. (IN.)												"P" 1s+ ¹ / ₃	"P" MID ¹ /3	"P" END/-	DIA OF		DRAPE	D PA	TTERN			UNDRAPED F	'ATTERN
SPAN	GIRDER	LENGTH		2/10	3/10	4 / ₁₀	5/10	6/ ₁₀	½ ₁₀	8/ ₁₀		CONC. STRGTH. f'c (p.s.i.)		OF GIRDER	OF GIRDER	DIA. OF STRAND (IN.)	TOTAL NO.OF STRANDS	f'ci (P.S.I.) X	"A"	(II "B" MIN.	√.) "B" ΜΑΧ.	"C"	TOTAL NO.OF STRANDS	f'ci (P.S.I.) X
1	1-9	59'-0"	0.24	0.49	0.66	0.78	0.82	0.78	0.66	0.49	0.24	8,000	6	6	6	0.5	18	6,800	23	9.5	12.5	5.0		





PART TRANSVERSE SECTION AT DIAPHRAGM



DETAIL B

NOTES

15/16" X 23/16" LONG SLOTTED HOLE (TYP.)-

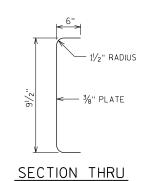
 \Leftrightarrow

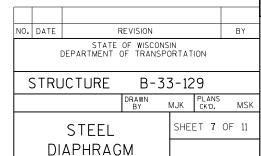
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-33-129", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

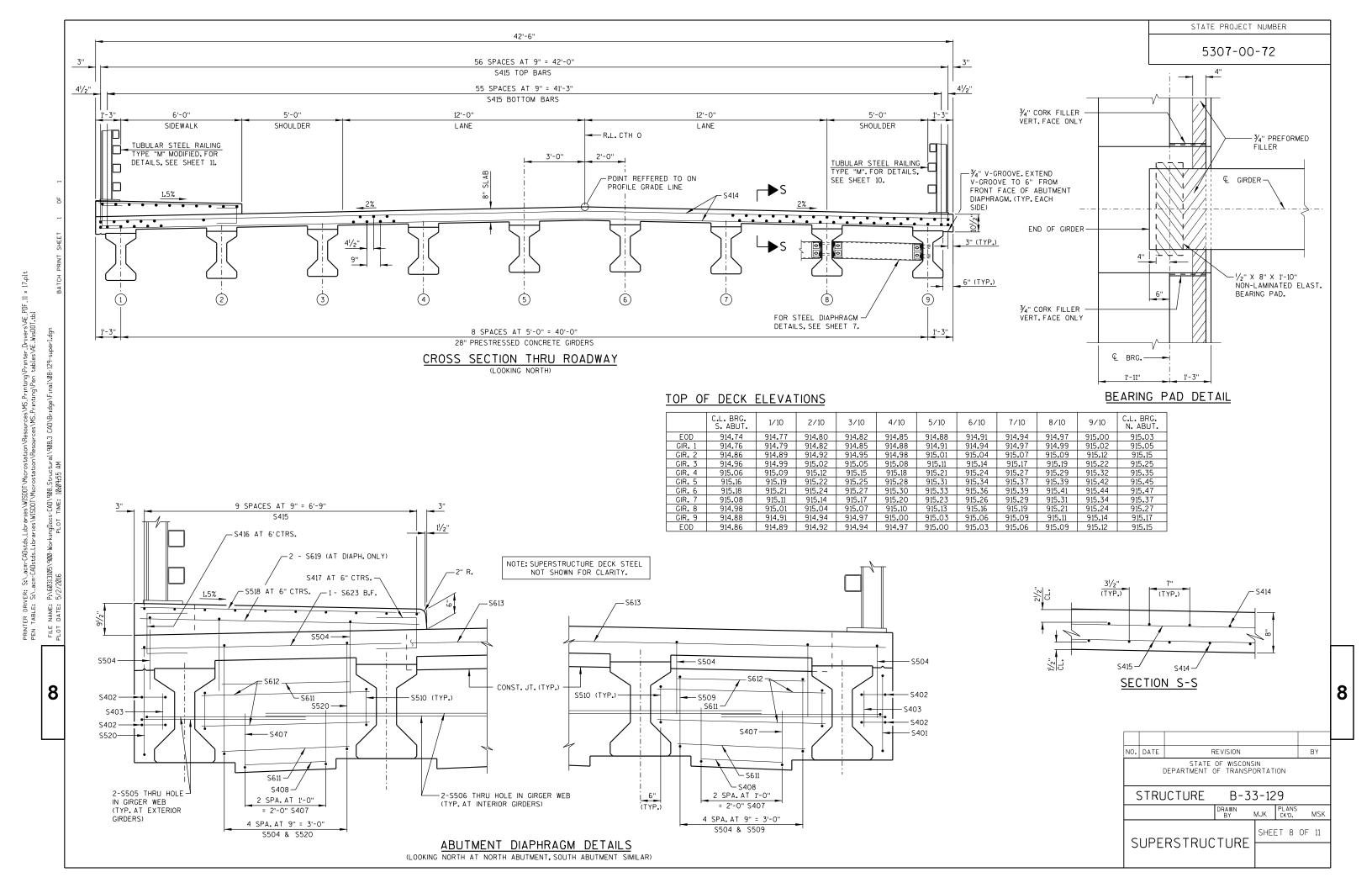
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

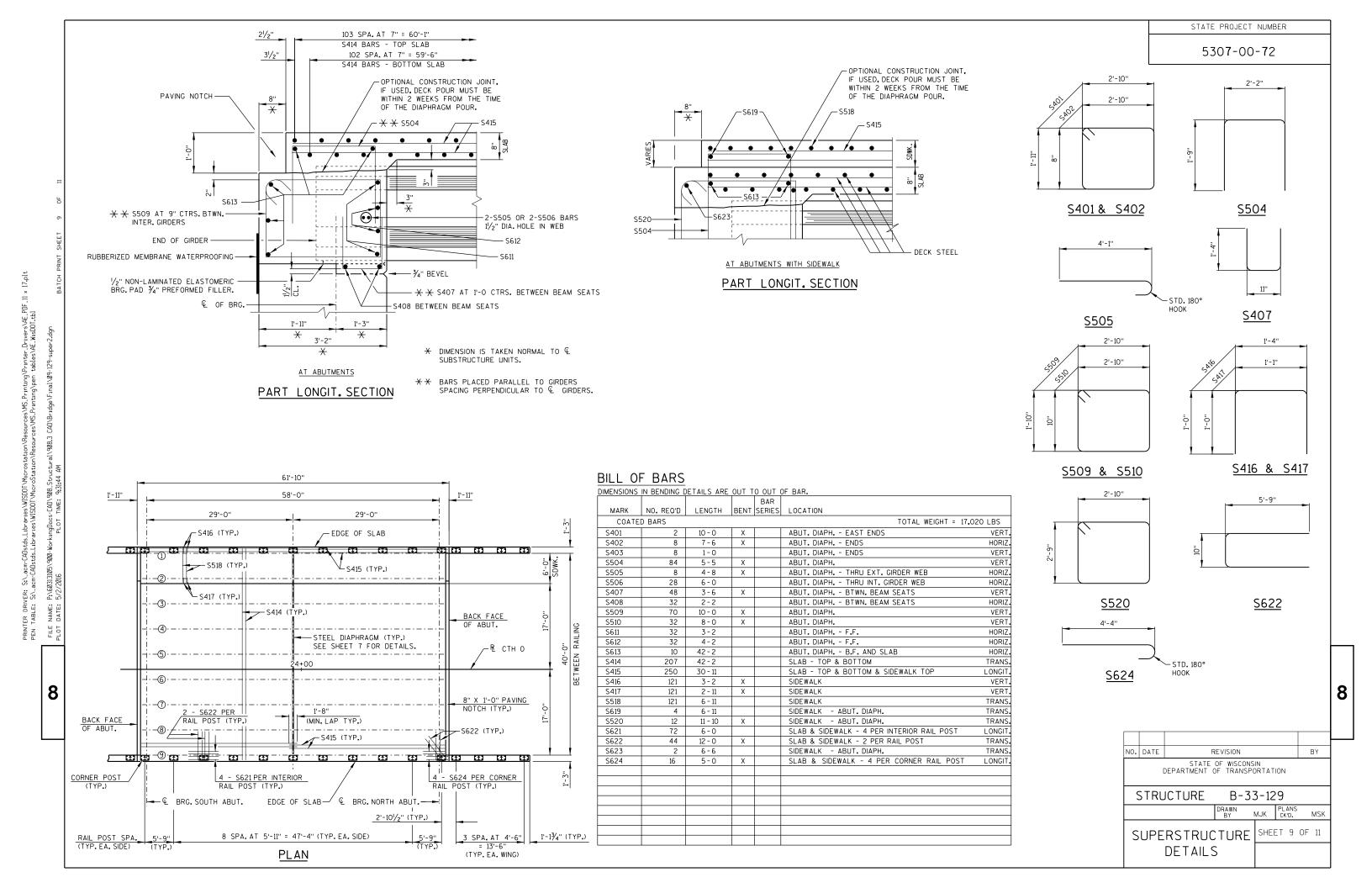
ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE
HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS
SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH
ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED
OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM
A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY
REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR
COATED NIITS.





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(1) W6 x 25 WITH 11/8" X 11/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO.6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.

2 PLATE 11/4" × 113/4" × 1-8" WITH 13/6" X 15/6" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.

(3) ASTM A449 - 11/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REO'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 103/4" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REO'D. FOR CONSTRUCTIBILITY.)

(5) TS 5 \times 4 \times 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.

(5A) TS 5 \times 5 \times 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.

7 $\frac{1}{2}$ " Thk. Back-up plate with 2 - $\frac{7}{8}$ " x $\frac{1}{2}$ " threaded shop welded studs (no. 12). Bolt to rail as shown in Detail. Required at thrie beam guard RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.

8 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR %" DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.

9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".

(10) 3/8" X 35/8" X 2'-4" PLATE. 2 PER RAIL. USED IN NO.5 & 5A.

10 % " X 25%" X 2'-4" PLATE USED IN NO.5, % " X 35%" X 2'-4" PLATE USED IN NO.5A. 2 PER RAIL.

(1) % " ϕ A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE $^{1}\!\!/_{6}$ " X $^{1}\!\!/_{4}$ " LONGIT. SLOTTED HOLES AT FIELD JOINTS AND $^{1}\!\!/_{6}$ " X $^{2}\!\!/_{4}$ " MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A.

 $\frac{1}{8}$ " DIA. X $\frac{1}{2}$ " LONG THREADED SHOP WELDED STUDS (2 REQ'D).

 $(\overline{14})$ %" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).

GENERAL NOTES

- 1" ¢ HOLE

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-33-129" WHICH INCLUDES ALL ITEMS SHOWN.

2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $1\!/8$ TURN.

4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.

5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.

6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT

9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO.6 BLAST CLEANING BY SSPC SPECIFICATIONS.

10. WHEN PAINTING IS REQUIRED, ALL MATERIAL EXCEPT ANCHORAGE DETAIL (NO. 3 & 4) SHALL BE PAINTED OVER GALVANIZING WITH APPROVED TIE COAT AND TOP COAT.

11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).

12. PLACE FIRST BOTTOM LONGITUDINAL BAR CLEAR OF DRIP GROOVE.

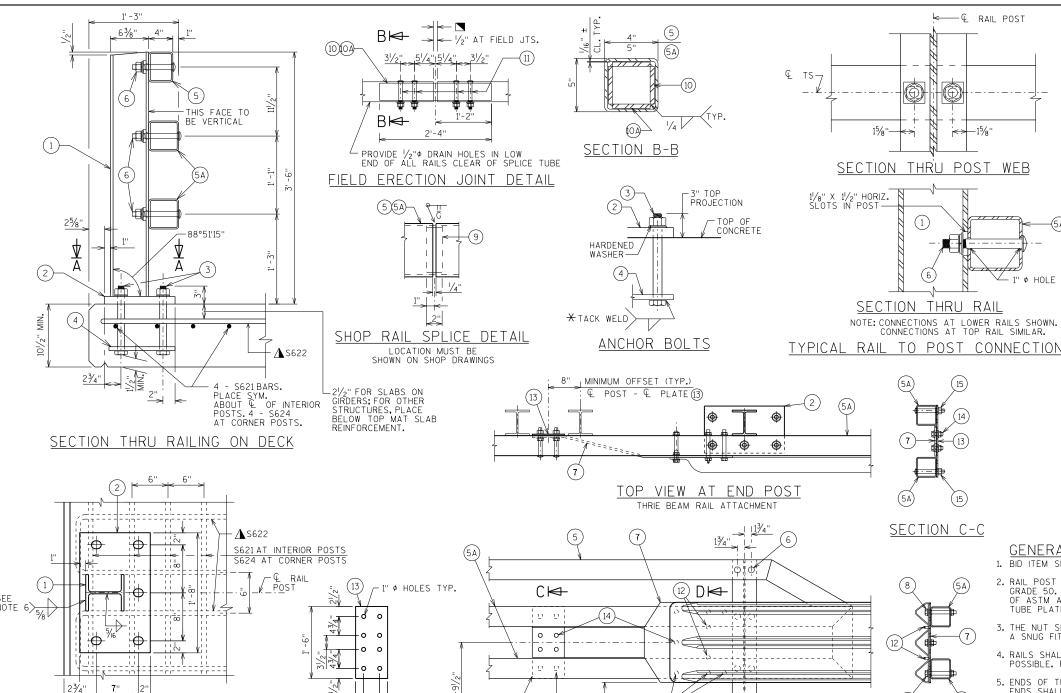
⚠ THE TO TOP MAT OF STEEL. ROTATE S622 BARS AT CORNER POSTS TO FIT.

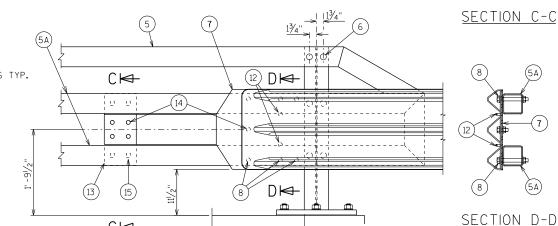
* FOR ANCHOR BOLTS IN WINGS, TACK WELD MAY BE USED IN FIELD AFTER ANCHOR PLATE IS IN POSITION IF REQ'D. FOR CONSTRUCTIBILITY.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-33-129

> TUBULAR STEEL RAILING TYPE M







ANCHOR PLATE

4" SEE SHEETS 5 OR 9. ABUTMENT WINGWALL Ę— € EXPANSION JOINT

PART ELEVATION OF RAILING

AS REQ'D. 1/16" THK.-**⊕** – - ⊢

SHIM DETAIL

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.acm-CADstds_Libraries\WISDOT CADstds_Libraries\WISDOT\Mic

CAD

90

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113/4"

' Φ HOLES

" ¢ HOLES

ANCHOR PLATE

SECTION A-A

FOR 11/8" \$\phi\$ ANCHOR BOLTS BACK-UP PLATE DETAIL AT RAIL TO DECK CONNECTION AT BEAM GUARD ATTACHMENT

TO POST CONNECTIONS

C₩ - EDGE OF PLATE (7) AND FLANGE OF (1)

DETAIL AT END POST

THRIE BEAM RAIL ATTACHMENT

FOR POST SPA., 1' -4" SEE SHEET 9. FOR POST SPA.,

MJK PLANS

SHEET 10 OF 11

FOR POST SPA.,

SEE SHEETS 5 OR 9.

ABUTMENT WINGWALL

2'-101/2'

PART ELEVATION OF RAILING

<u>|√2"</u>

- € EXPANSION JOINT

STATE PROJECT NUMBER 5307-00-72

(1) W6 x 25 WITH 11/8" X 11/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO.6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.

2 PLATE 11/4" × 113/4" × 1-8" WITH 13/6" X 15/6" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.

3 ASTM A449 - 1/8" DIA, ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED), 5 REO'D, PER POST, THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING, USE 1"-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1"-3" LONG, USE 103/4" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF PEO'D FOR CONSTRUCTIBILITY) IF REQ'D. FOR CONSTRUCTIBILITY.)

(5) TS 5 \times 4 \times 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.

(5A) TS 5 × 5 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.

9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".

(10) 3/8" X 35/8" X 2'-4" PLATE. 2 PER RAIL. USED IN NO.5 & 5A.

 $\stackrel{\text{\tiny (1)}}{\text{\tiny (2)}} 3\%$ " X $2^5\%$ " X 2° -4" PLATE USED IN NO.5, 3% " X $3^5\%$ " X 2° -4" PLATE USED IN NO.5A. 2 PER RAIL.

(11) % " ϕ A325 round head bolt with nut, washer, and lock washer, use $^{15}\!\!\!/_6$ " x $^{1}\!\!/_4$ " longit. Slotted holes at field joints and $^{15}\!\!\!/_6$ " x $^{2}\!\!/_4$ " Min. Longit. Slotted holes at exp. Joints in plate no. 10a.

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M MODIFIED B-33-129" WHICH INCLUDES ALL ITEMS SHOWN.

2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $^{1}\!/_{8}$ TURN.

4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.

5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.

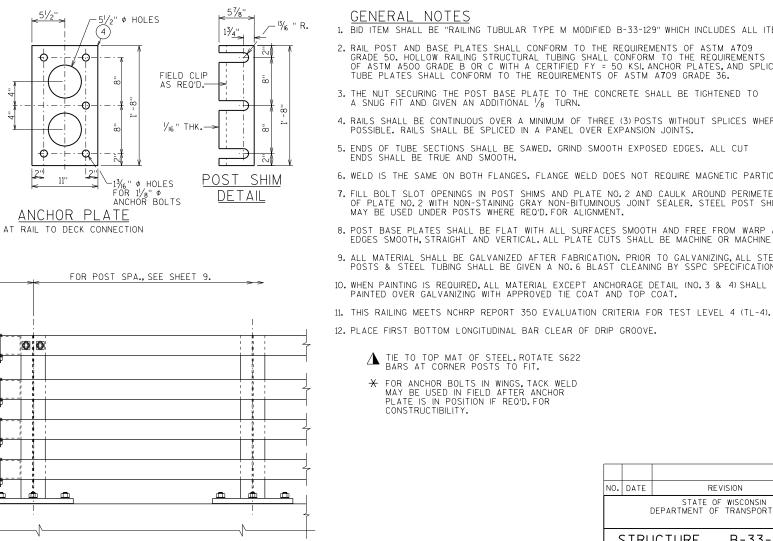
6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS

8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO.6 BLAST CLEANING BY SSPC SPECIFICATIONS.

10. WHEN PAINTING IS REQUIRED, ALL MATERIAL EXCEPT ANCHORAGE DETAIL (NO. 3 & 4) SHALL BE PAINTED OVER GALVANIZING WITH APPROVED TIE COAT AND TOP COAT.



7/1/1/

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SECTION A-A

TYP.)

1'-13/4"

Φ.

.ibraries/WISDOT^

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-33-129 MJK PLANS TUBULAR STEEL SHEET 11 OF 11 RAILING TYPE M MODIFIED

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		-		ARE	A (SF)					Incremental Vol	(CY) (I	Jnadjust	ted)					Cumulati	ive Vol (CY)			
STATION	Real Station	Distance		Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate
22+37.50	2238		87.6	0	0	0	0	0	0	0	0	0	Λ	0	0	0	0	0	0		0	11000
22+49.21	2249	11	75.16	0	4.61	0	0	0	15	0	1	0	0	0	15	1	0	0	0	0	0	14
22+50.00	2250	1	74.99	0	4.73	0	0	ō	3	0	Ō	0	Ö	0	18	1	0	Ō	0	0	0	17
22+73.93	2274	24	79.71	0	8.37	0	0	0	69	0	6	0	0	0	87	9	0	0	0	0	0	79
22+98.98	2299	25	71.86	0	9.14	0	0	0	70	0	8	0	0	0	157	19	0	0	0	0	0	139
23+00.00	2300	1	71.48	0	9.91	0	0	0	3	0	0	0	0	0	160	19	0	0	0	0	0	141
23+36.40	2336	36	72.99	0	54.2	0	0	0	96	0	43	0	0	0	256	73	0	0	0	0	0	184
23+50.00	2350	14	70.42	0	66.78	0	0	0	37	0	31	0	0	0	293	112	0	0	0	0	0	182
23+51.50	2352	2	69.69	0	59.25	0	0	0	5	0	5	0	0	0	299	118	0	0	0	0	0	181
23+53.17	2353	1	68.92	0	62.82	0	0	0	3	0	2	0	0	0	301	120	0	0	0	0	0	181
23+68.17	2368	15	95.5	0	16.74	0	0	0	46	0	22	0	0	0	347	148	0	0	0	0	0	200
					South A	Approach	Earthwor	rk Totals	350		120	0	0	0								

				ARE	A (SF)					Incremental Vol	(CY) (U	Inadjust	ed)					Cumulati	ive Vol (CY)			
STATION	17.07.61.00	Distance		Salvaged/Unusable Pavement Material		Marsh Exc	Rock Exc	EBS	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate
24+28.67	2429		95.97	0	8.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24+43.67	2444	15	58.12	0	49.44	0	0	0	16	0	14	0	0	0	16	17	0	0	0	0	0	-1
24+45.34	2445	1	58.96	0	45.15	0	0	0	3	0	1	0	0	0	19	18	0	0	0	0	0	1
24+50.00	2450	5	62.51	0	67.03	0	0	0	11	0	10	0	0	0	30	31	0	0	0	0	0	-1
24+60.34	2460	10	62.18	0	66.84	0	0	0	23	0	25	0	0	0	53	62	0	0	0	0	0	-9
24+97.91	2498	38	57.24	0	71.7	0	0	0	84	0	97	0	0	0	137	184	0	0	0	0	0	-47
25+00.00	2500	2	57.06	0	71.26	0	0	0	4	0	5	0	0	0	142	191	0	0	0	0	0	-49
25+23.12	2523	23	60.33	0	66.28	0	0	0	50	0	59	0	0	0	192	264	0	0	0	0	0	-72
25+50.00	2550	27	56.96	0	68.5	0	0	0	59	0	67	0	0	0	250	348	0	0	0	0	0	-98
25+62.00	2562	12	55.1	0	47.13	0	0	0	25	0	26	0	0	0	275	380	0	0	0	0	0	-105
26+00.00	2600	38	0.7	0	34.57	0	0	0	40	0	57	0	0	0	315	452	0	0	0	0	0	-137
26+50.00	2650	50	2.04	0	0.04	0	0	0	3	0	32	0	0	0	318	492	0	0	0	0	0	-170
					North A	Approach	Earthwor	k Totals	320	0	400	0	0	0						_		

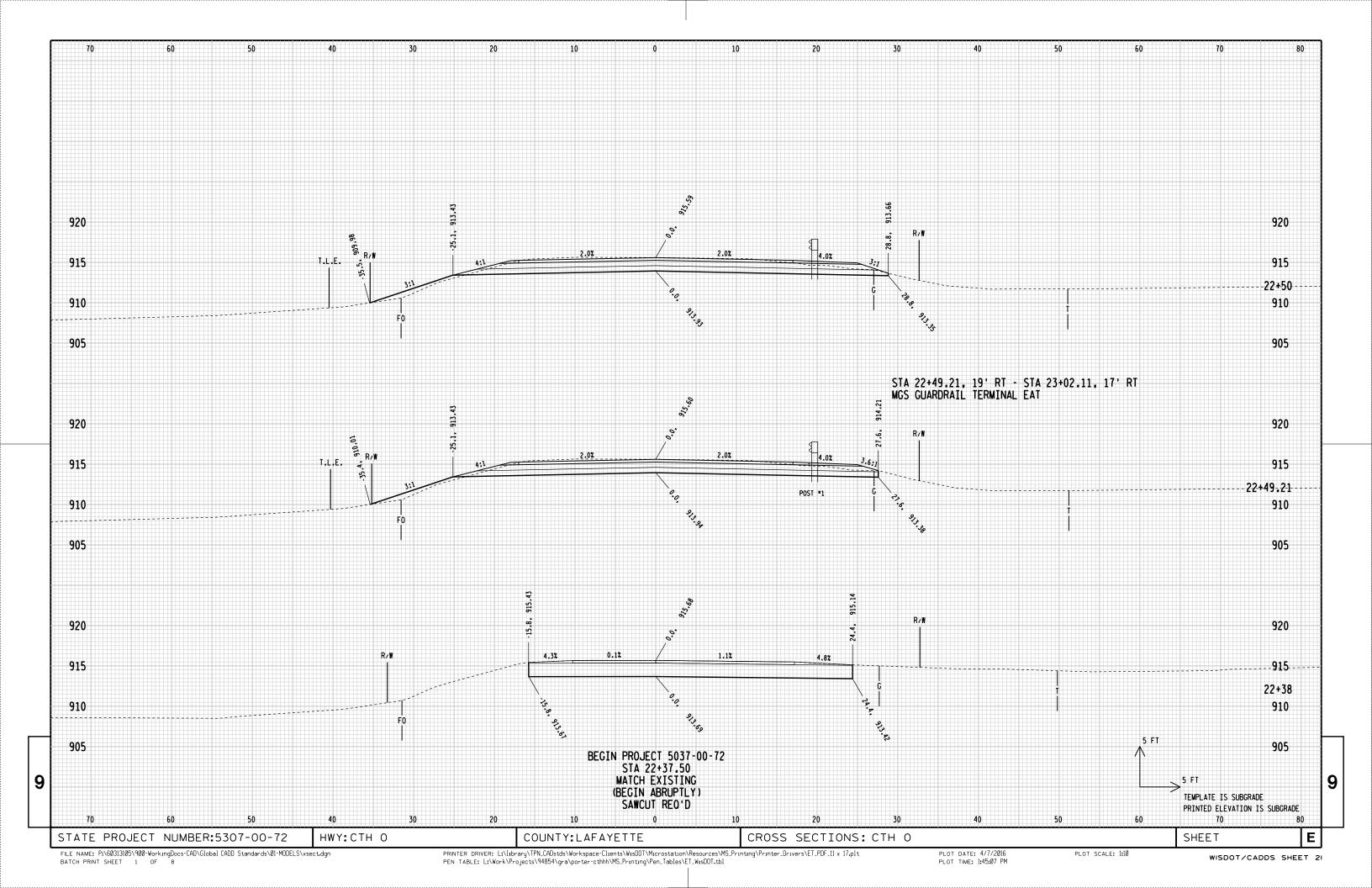
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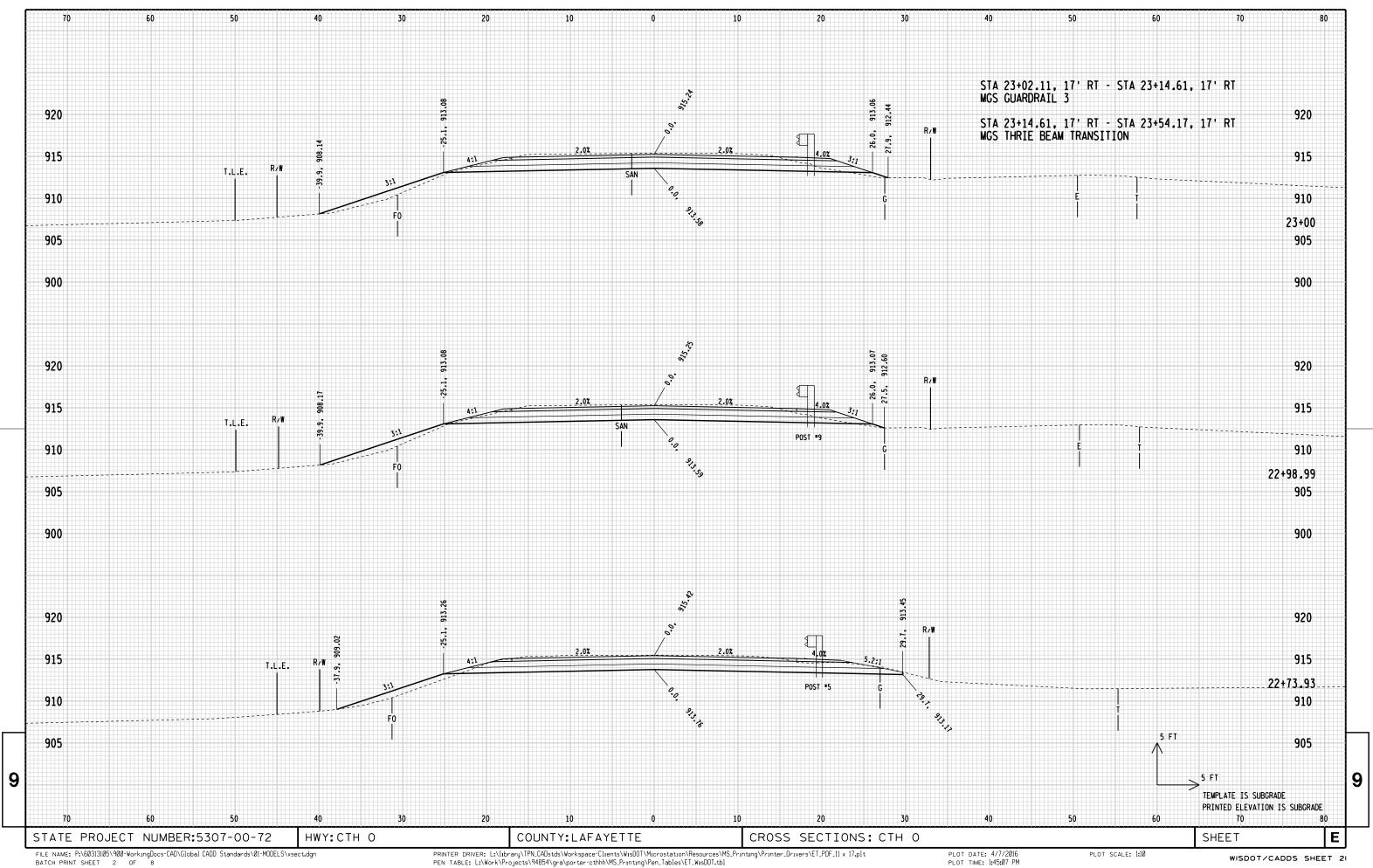
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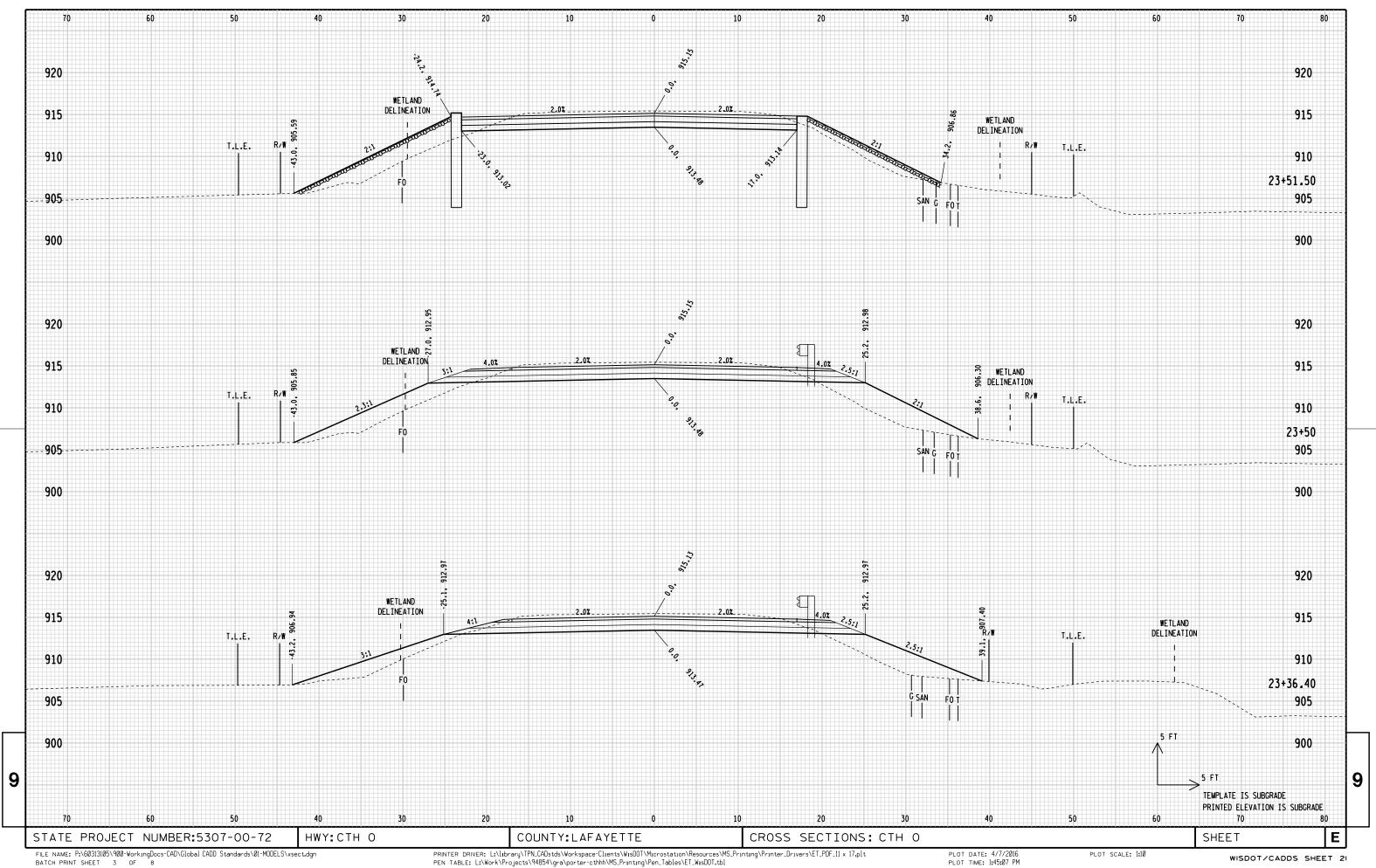
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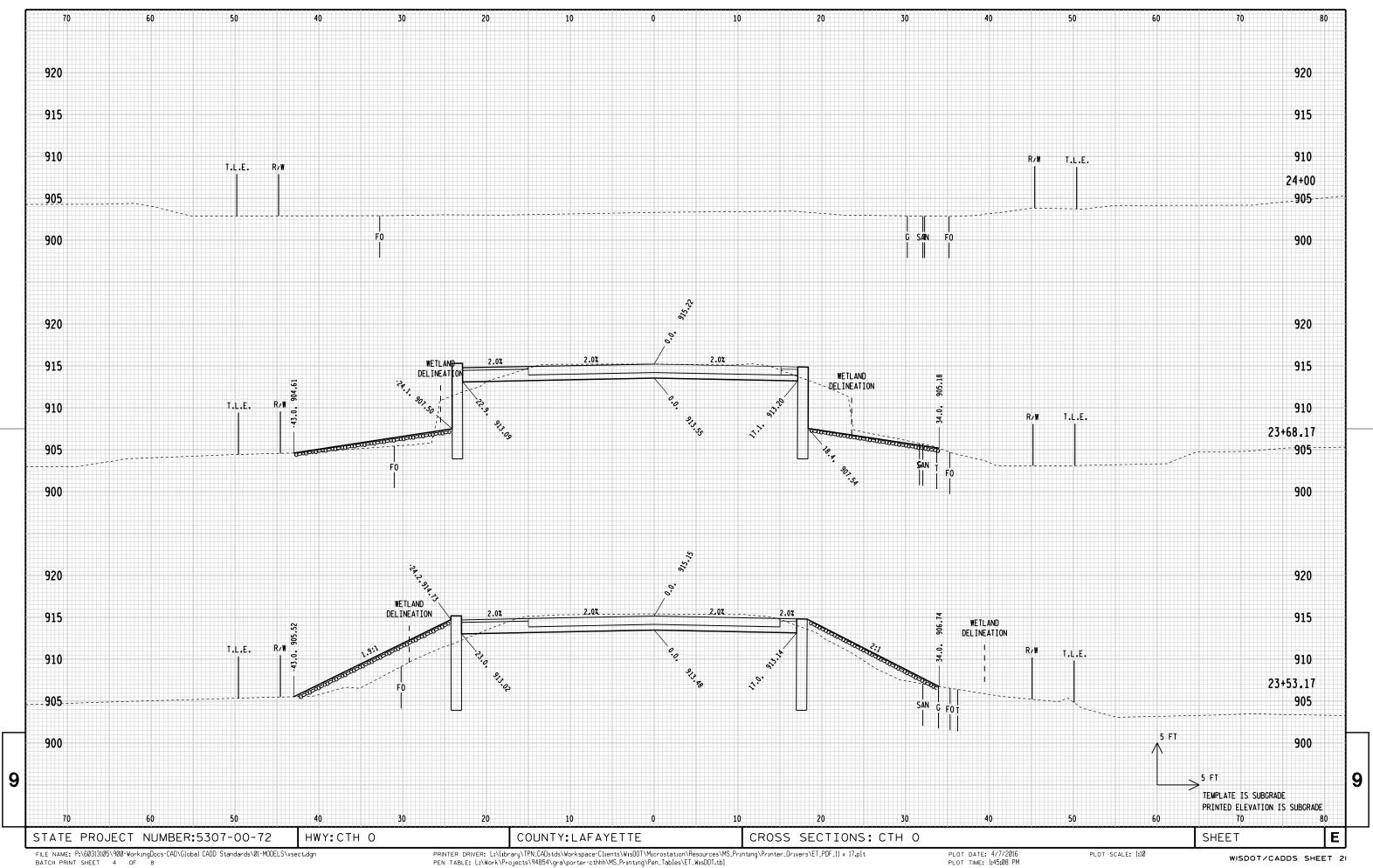
PROJECT NUMBER: 5307-00-72 HWY:CTH O COUNTY:LAFAYETTE EARTHWORK

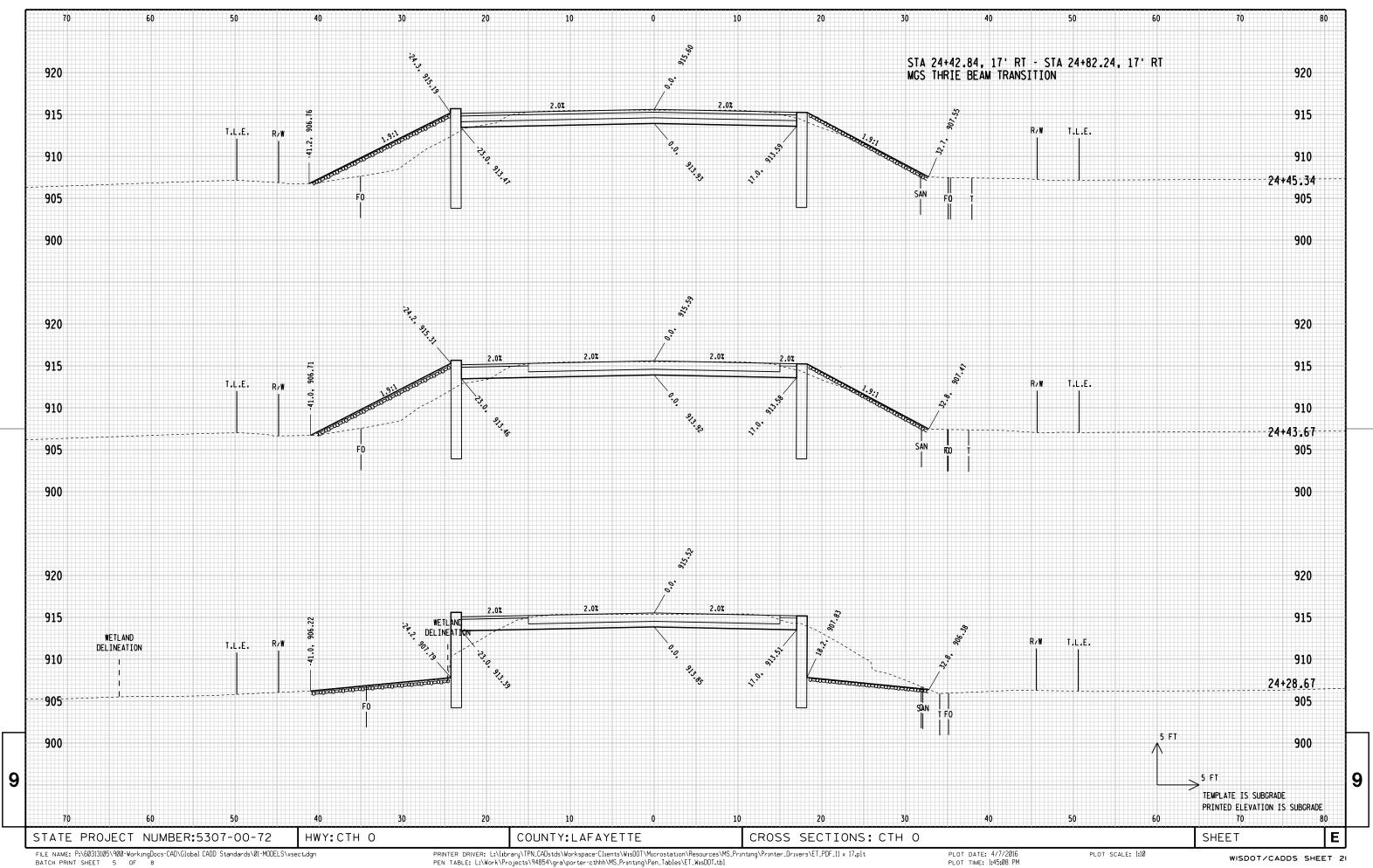
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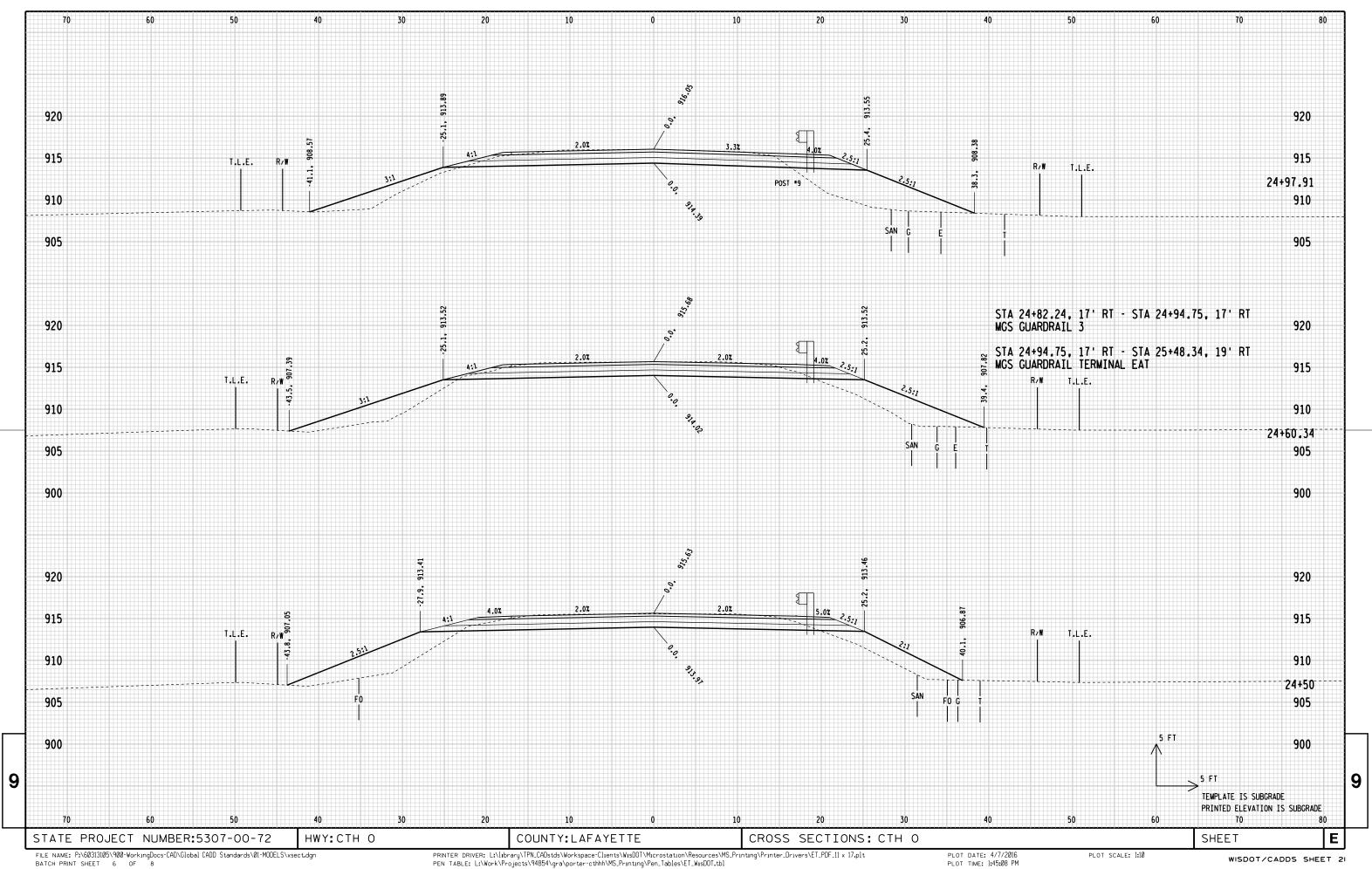


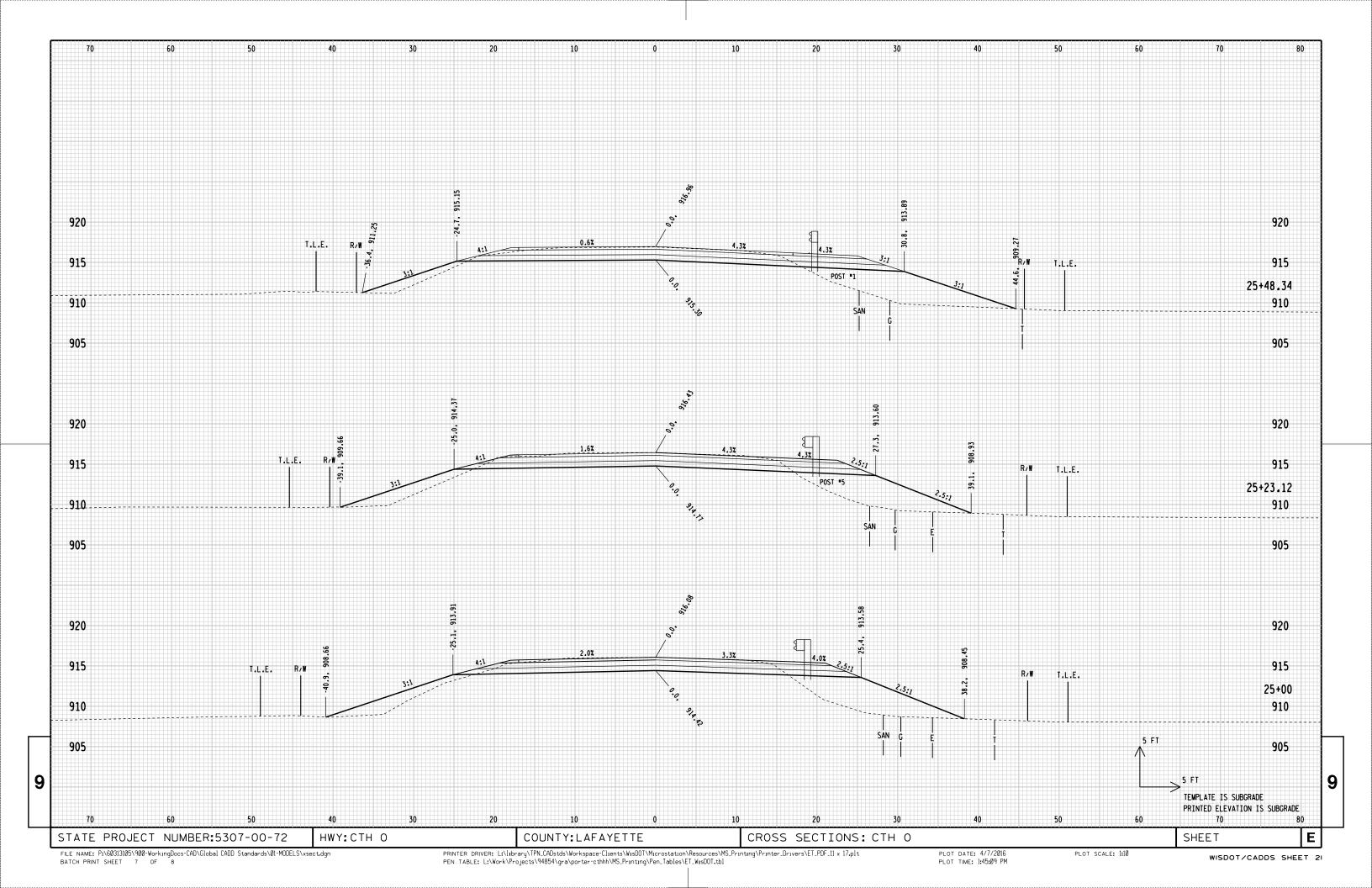


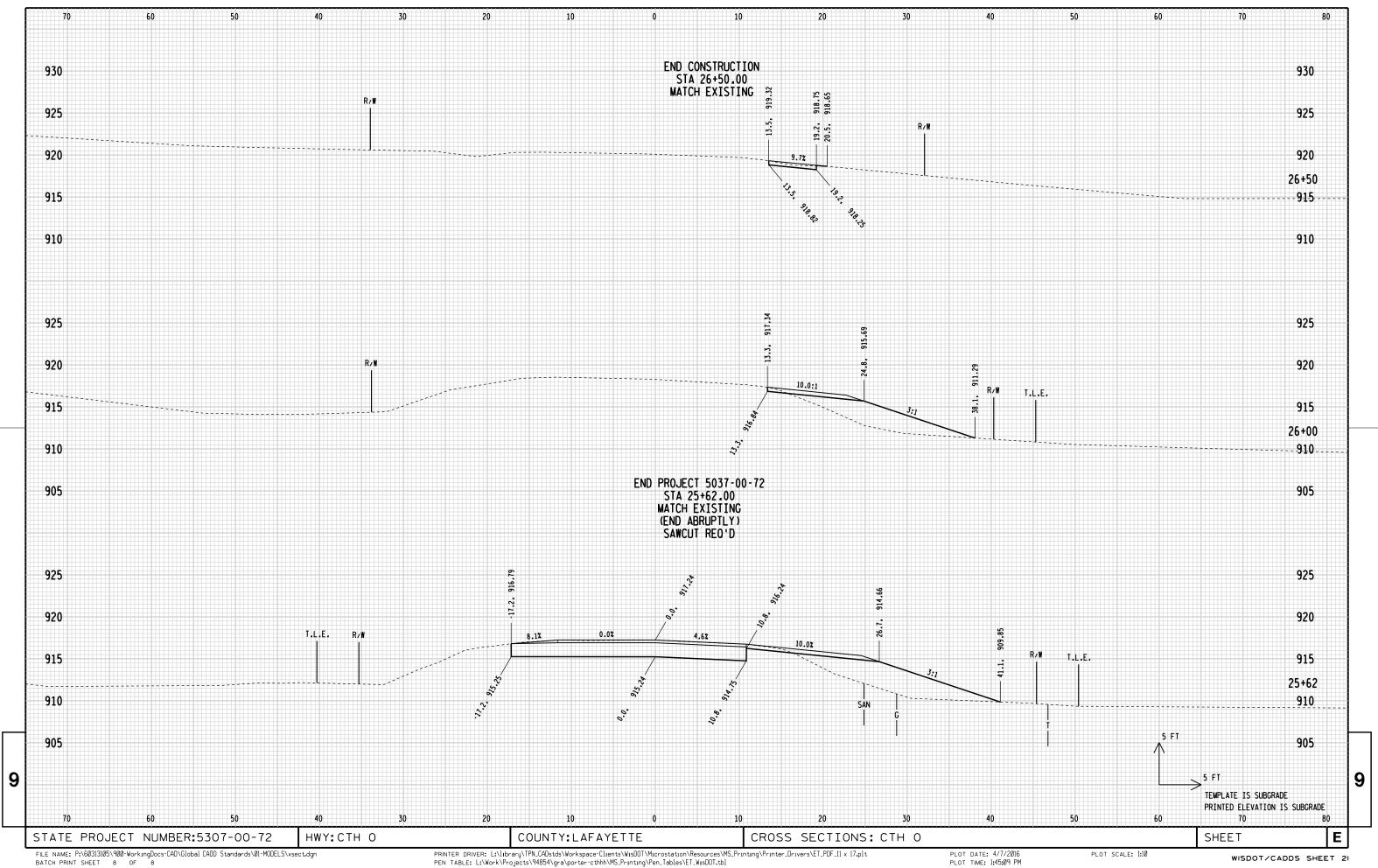














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