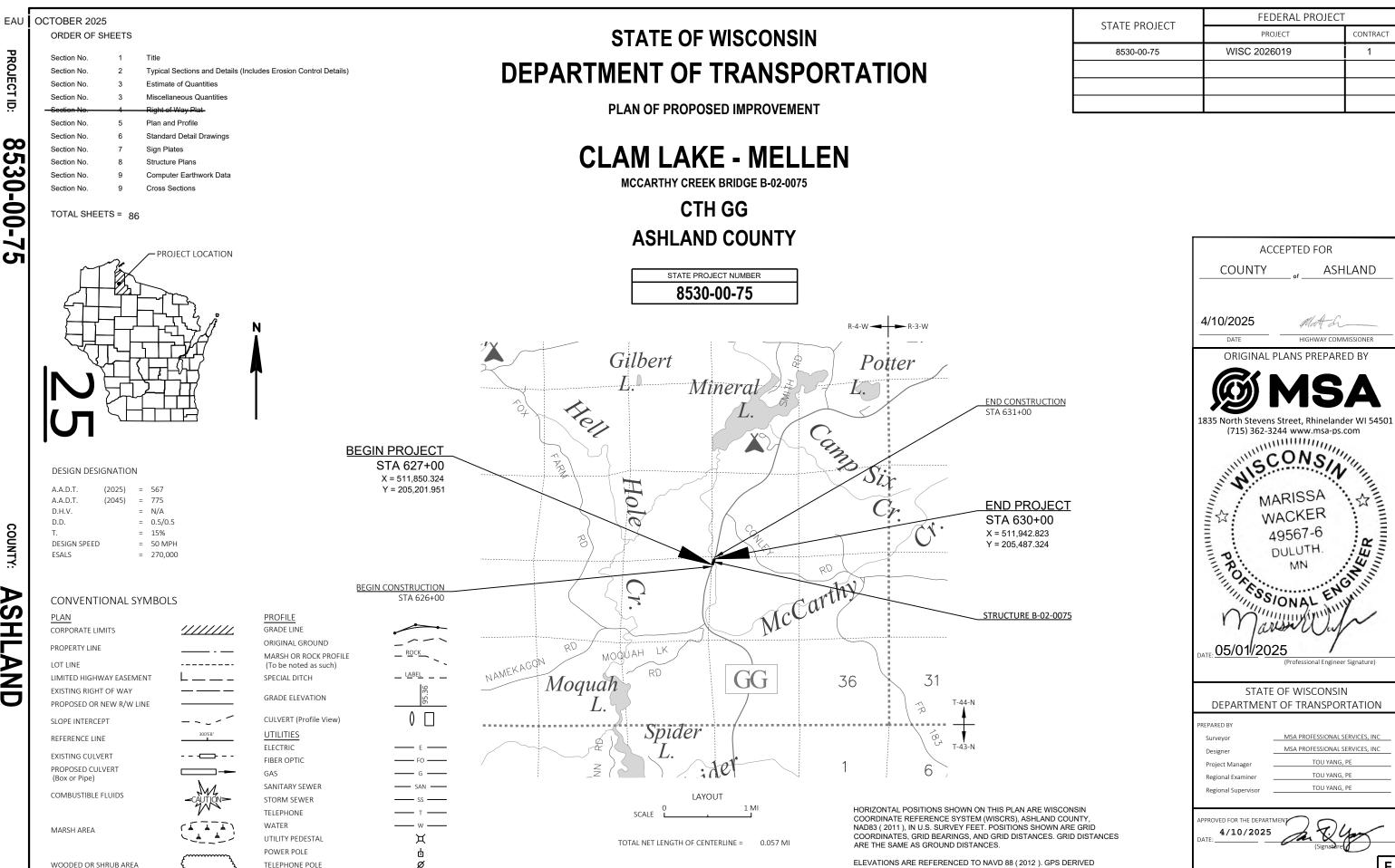
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4/8/2025 1:51 PM

ELEVATIONS ARE BASED ON GEOID 18.

ALEC WROBLEWSKI

2

# WISCONSIN DNR LIAISON

SHAWN HASELEU NORTHWEST REGION 810 W MAPLE ST. SPOONER, WI 54801-1255 PHONE: 715-635-4228

EMAIL: SHAWN.HASELEU@WISCONSIN.GOV

### **COUNTY HIGHWAY COMMISSIONER**

MATTHEW ERICKSON ASHLAND COUNTY 39181 STH 13 HIGHBRIDGE, WI 54846 PHONE: 715-274-3662

EMAIL: MATT.ERICKSON@ASHLANDCOUNTYWI.GOV

# DESIGN PROJECT MANAGER

TOU YANG
NORTHWEST REGION
718 W. CLAIREMONT AVE.
EAU CLAIRE, WI 54701
PHONE: 715-833-5570
EMAIL: TOU.YANG@DOT.WI.GOV

### DESIGN PROJECT LEADER

MARISSA WACKER
MSA PROFESSIONAL SERVICES, INC
332 W SUPERIOR ST.
DULUTH, MN 55802
PHONE: 218-499-3185
EMAIL: MWACKER@MSA-PS.COM

## **GENERAL NOTES**

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

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS.

RIGHT OF WAY LOCATIONS ARE ESTIMATED, BASED ON AVAILABLE ASBUILTS AND GIS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND EROSION MATTED.

THE LOCATIONS OF THE EXISTING WETLAND LOCATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE AND THERE MAY BE OTHER WETLANDS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

DO NOT STORE EQUIPMENT OR MATERIALS IN, NOR IMPACT ANY WETLANDS OR WATERWAYS OUTSIDE THE SLOPE INTERCEPTS SHOWN.

EXISTING ASPHALTIC MATERIAL IS NOT TO BE USED IN FILL AREAS.

# RUNOFF COEFFICIENT TABLE

					I	HYDROLOGIC	SOIL G	ROUP				
		Α			В			С			D	
	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
NOW CROPS.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
IVIEDIAN STRIPTORF.	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
SIDE SLOPETORF.			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:						.70 -	95					
CONCRETE:						.80	95					
BRICK:						.70 -	80					
DRIVES, WALKS:		.7585										
ROOFS:						.75	95					
GRAVEL ROADS, SHOULDERS:						.40	60					

TOTAL PROJECT AREA = <u>1.515</u> ACRES

PROJECT NO:

FILE NAME :

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = <u>0.800</u> ACRES

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

STANDARD ABBREVIATIONS

	STANDARD A	BBREVIATION	IS
ABUT	ABUTMENT	LC	LONG CHORD OF CURVE
AC	ACRE	LS	LUMP SUM
AGG	AGGREGATE	MGAL	ONE THOUSAND GALLONS
AH	AHEAD	MH	MANHOLE
_	ANGLE	ML OR M/L	MATCH LINE
AADT	ANNUAL AVERAGE DAILY TRAFFIC	NOM	NOMINAL
ASPH	ASPHALTIC	NC	NORMAL CROWN
BK	BACK	NB	NORTHBOUND
BC	BACK OF CURB	NO	NUMBER
BAD	BASE AGGREGATE DENSE	OD	OUTSIDE DIAMETER
BL OR B/L	BASE LINE	PAVT	PAVEMENT
BM	BENCH MARK	PLE	PERMANENT LIMITED EASEMENT
CB	CATCH BASIN	PC	POINT OF CURVATURE
CL OR C/L	CENTER LINE	PI	POINT OF CORVATORE POINT OF INTERSECTION
,			
Δ	CENTRAL ANGLE OR DELTA	PT	POINT OF TANGENCY
CE	COMMERCIAL ENTRANCE	PCC	PORTLAND CEMENT CONCRETE
CONC	CONCRETE	LB	POUND
CONST	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CP	CONTROL POINT	PE	PRIVATE ENTRANCE
CO	COUNTY	PROJ	PROJECT
CTH	COUNTY TRUCK HIGHWAY	PL	PROPERTY LINE
CY	CUBIC YARD	PRW	PROPOSED RIGHT OF WAY
CP	CULVERT PIPE	R	RADIUS
CPRC	CULVERT PIPE REINFORCED CONCRETE	RL OR R/L	REFERENCE LINE
C & G	CURB AND GUTTER	REQD	REQUIRED
D	DEGREE OF CURVE	RT	RIGHT
DHV	DESIGN HOUR VOLUME	R/W	RIGHT OF WAY
DIA	DIAMETER	RD	ROAD
DWY	DRIVEWAY	RDWY	ROADWAY
EA	EACH	SHLDR	SHOULDER
EB	EASTBOUND	SW	SIDEWALK
EL OR ELEV	ELEVATION	SB	SOUTHBOUND
EMB	EMBANKMENT	SPECS	SPECIFICATIONS
EW	ENDWALL	SF	SQUARE FEET
EAT	ENERGY ABSORBING TERMINAL	SY	SQUARE YARD
ESALS	EQUIVALENT SINGLE AXLE LOADS	SDD	STANDARD DETAIL DRAWINGS
EXC	EXCAVATION	STH	STATE TRUNK HIGHWAY
EBS	EXCAVATION BELOW SUBGRADE	STA	STATION
EXIST	EXISTING	SE	SUPERELEVATION
FERT	FERTILIZER	SL OR S/L	SURVEY LINE
FE		TEMP	
	FIELD ENTRANCE		TEMPORARY
FL OR F/L	FLOW LINE	TI	TEMPORARY INTEREST
FT	FOOT	TLE	TEMPORARY LIMITED EASEMENT
FTMS	FREE TRAFFIC MANAGEMENT SYSTEM	TC	TOP OF CURB
HE	HIGHWAY EASEMENT	TL OR T/L	TRANSIT LINE
CWT	HUNDRED WEIGHT	Т	TRUCKS (PERCENT OF)
IN DIA	INCH DIAMETER	TYP	TYPICAL
INL	INLET	USH	UNITED STATES HIGHWAY
ID	INSIDE DIAMETER	VAR	VARIABLE
INTERS	INTERSECTION	VC	VERTICAL CURVE
IH	INTERSTATE HIGHWAY	VPC	VERTICAL POINT OF CURVATURE
INV	INVERT	VPI	VERTICAL POINT OF INTERSECTION
JT	JOINT	VPT	VERTICAL POINT OF TANGENCY
LT	LEFT	W	WEST
L	LENGTH OF CURVE	WB	WESTBOUND
LF	LINEAR FOOT		

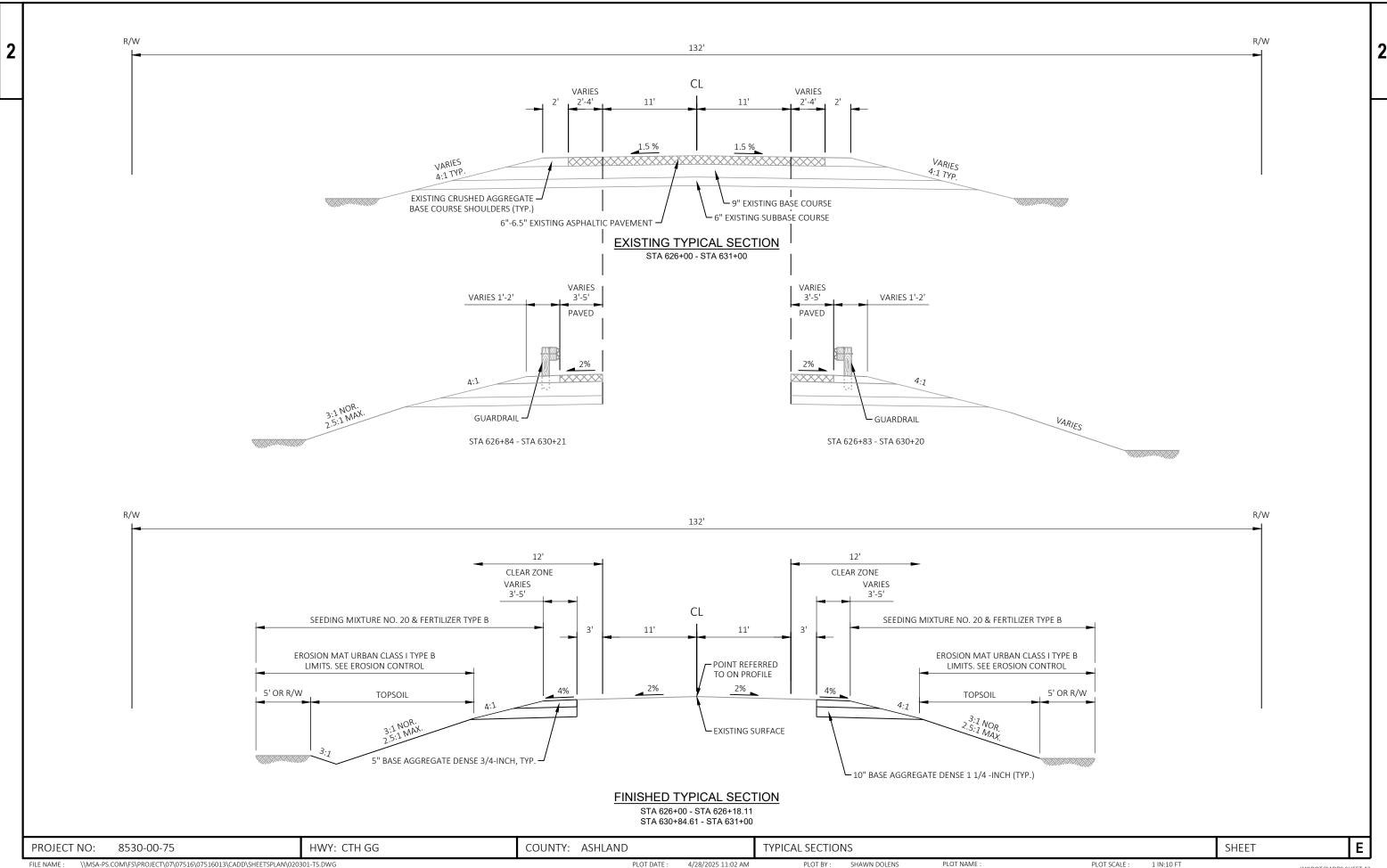
SHEET

Ε

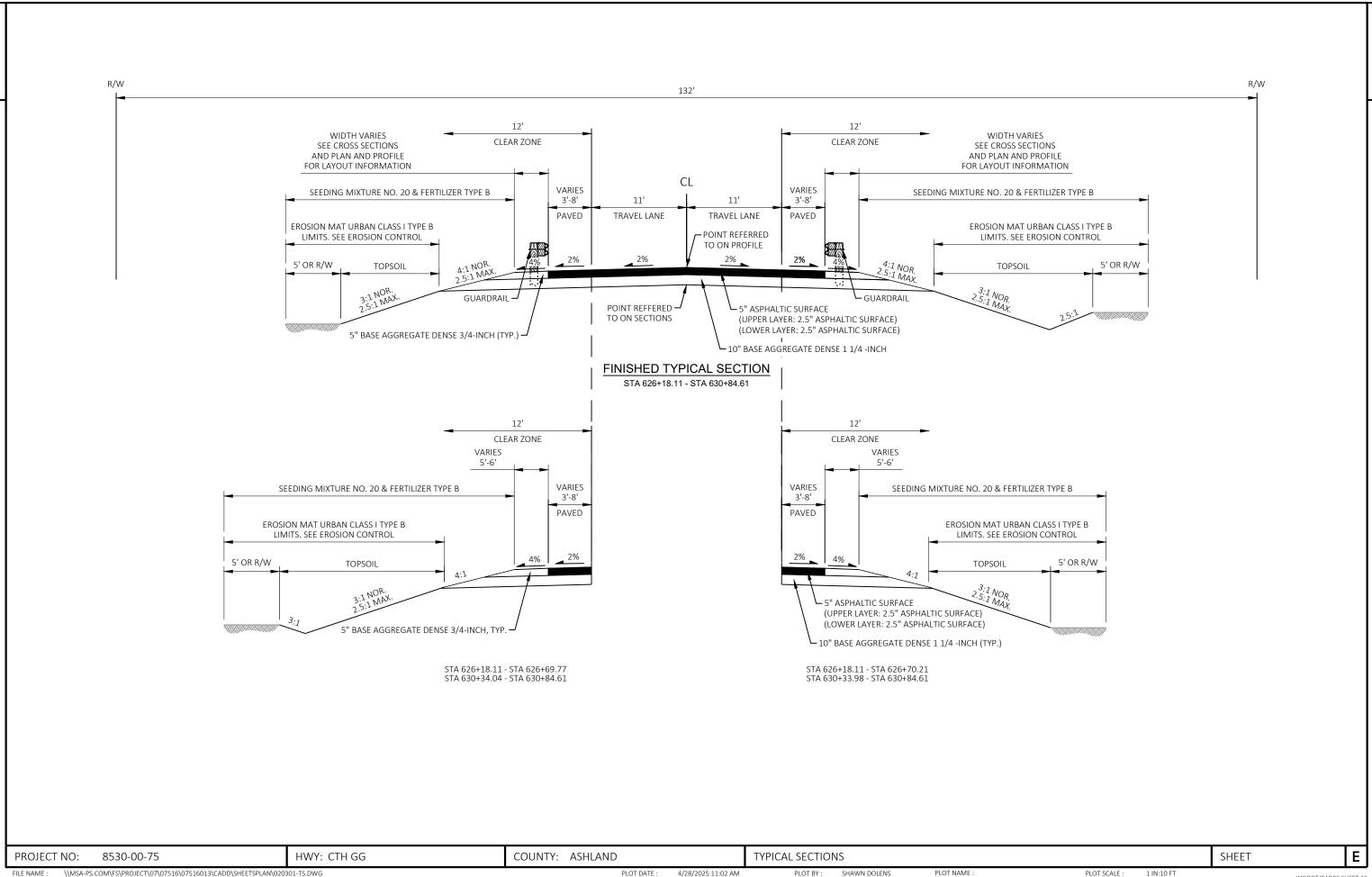
WISDOT/CADDS SHEET 42

8530-00-75 HWY: CTH GG COUNTY: ASHLAND GENERAL NOTES

\\MSA-PS.COM\FS\\PROJECT\07\07516\07

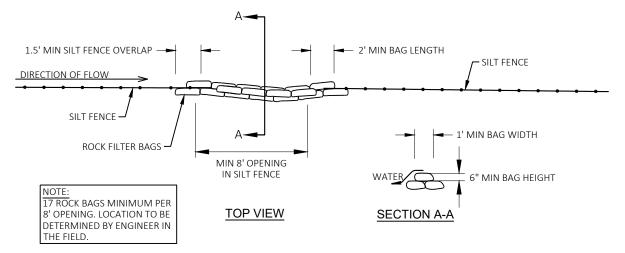


LAYOUT NAME - 020301-ts



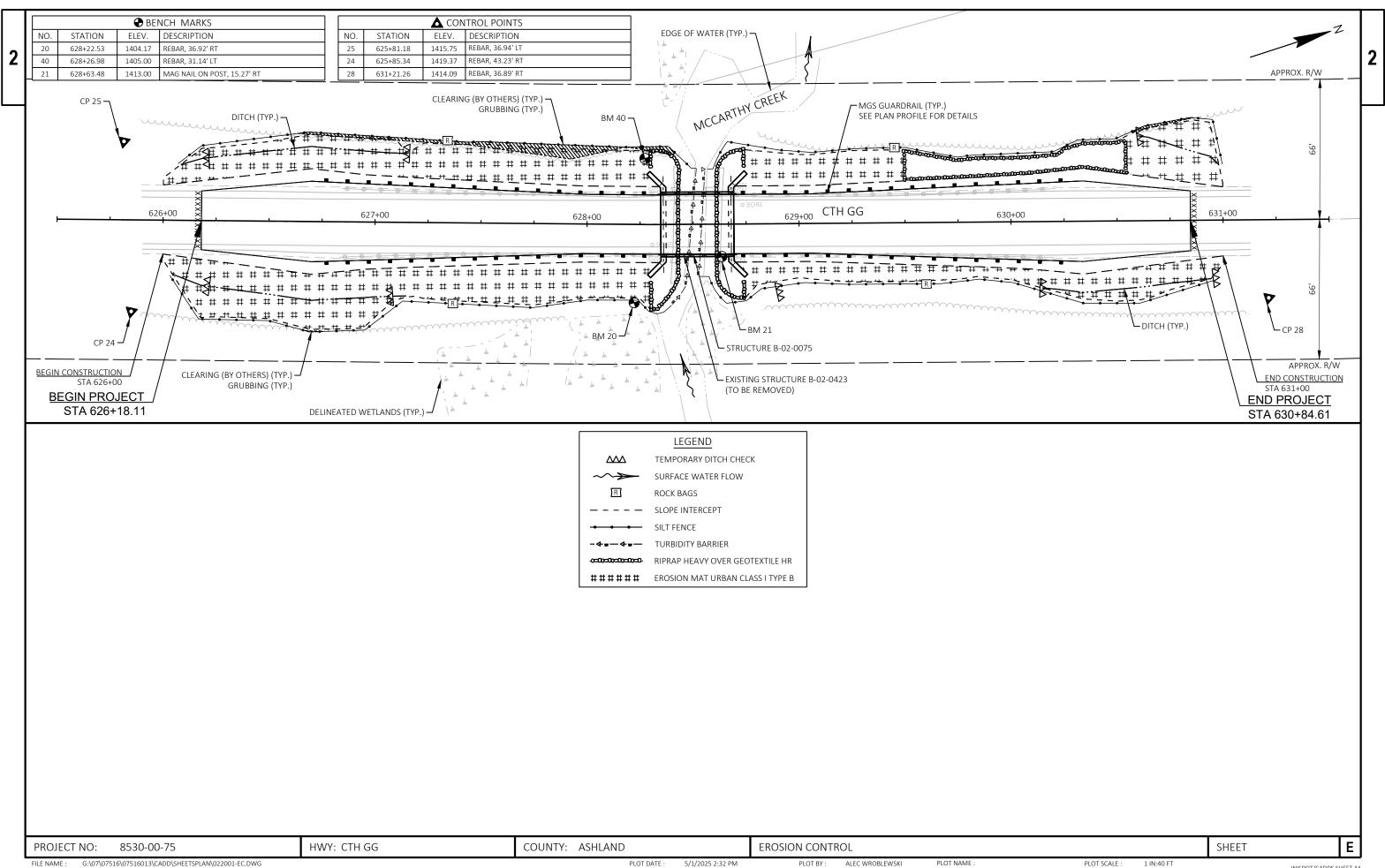
LAYOUT NAME - 020302-ts

WISDOT/CADDS SHEET 42



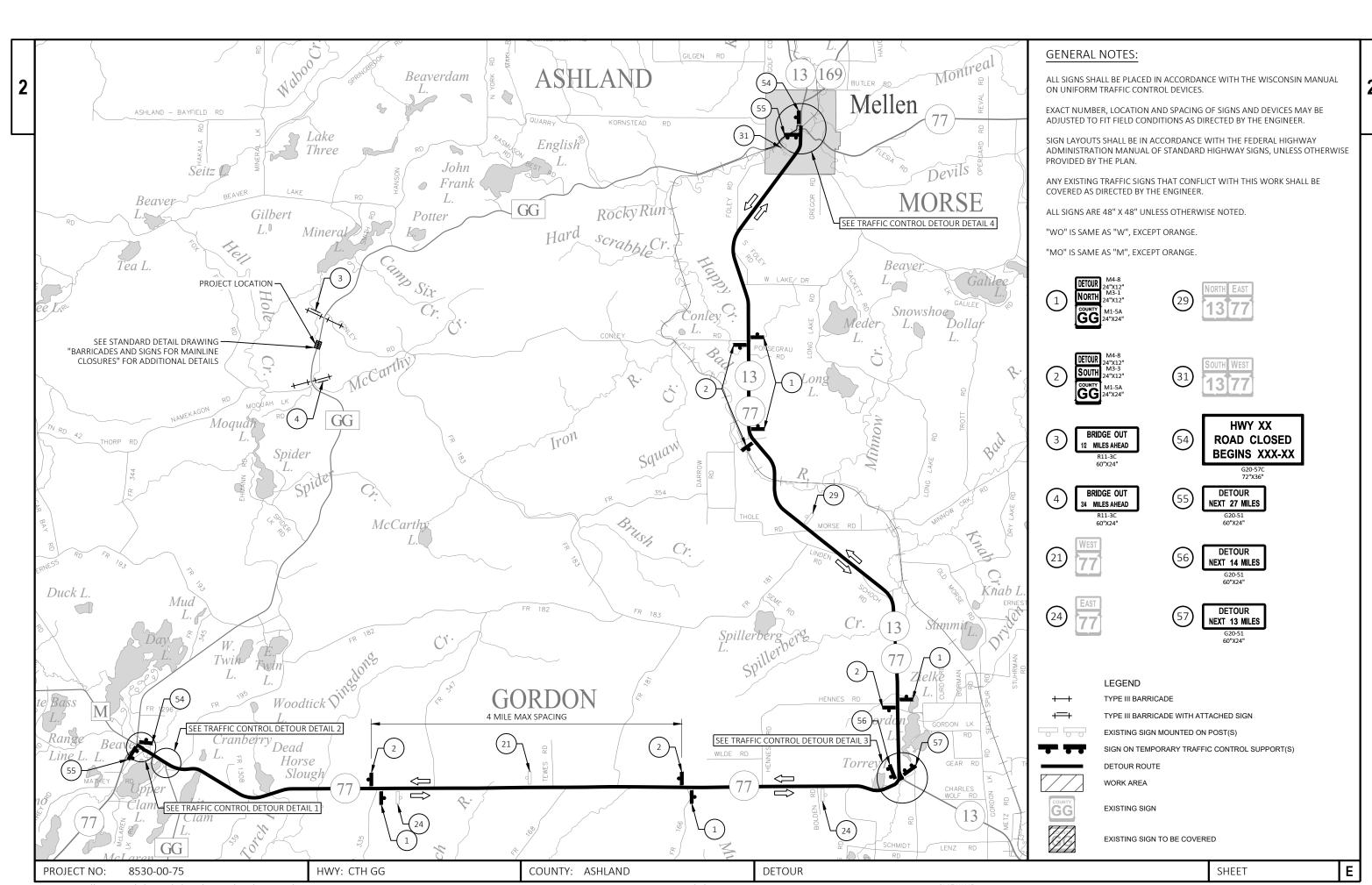
ROCK BAGS USED FOR SILT FENCE RELIEF

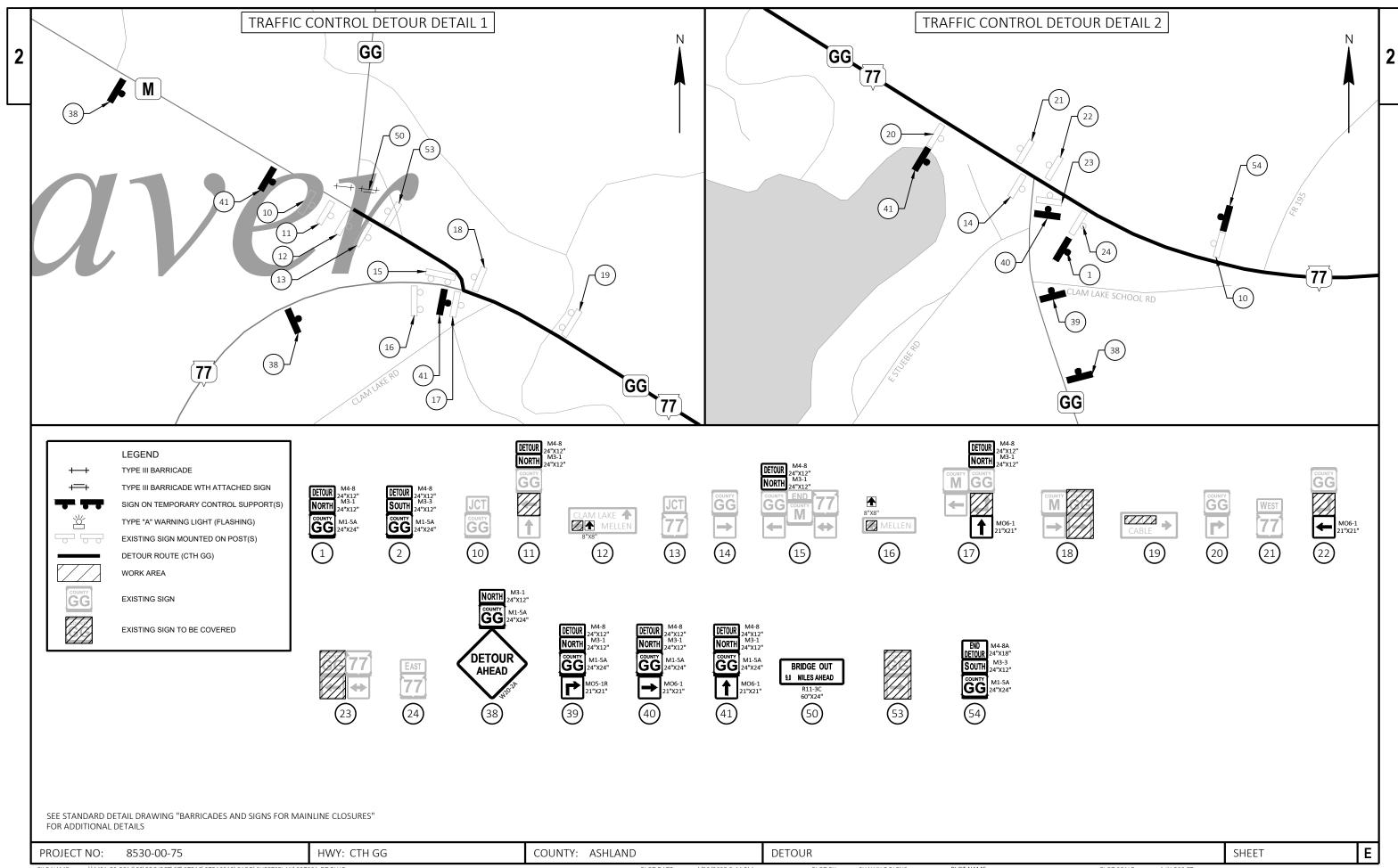
COUNTY: ASHLAND CONSTRUCTION DETAILS SHEET Ε PROJECT NO: 8530-00-75 HWY: CTH GG \\MSA-PS.COM\FS\PROJECT\07\07516\07516013\CADD\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 021001-cd FILE NAME :

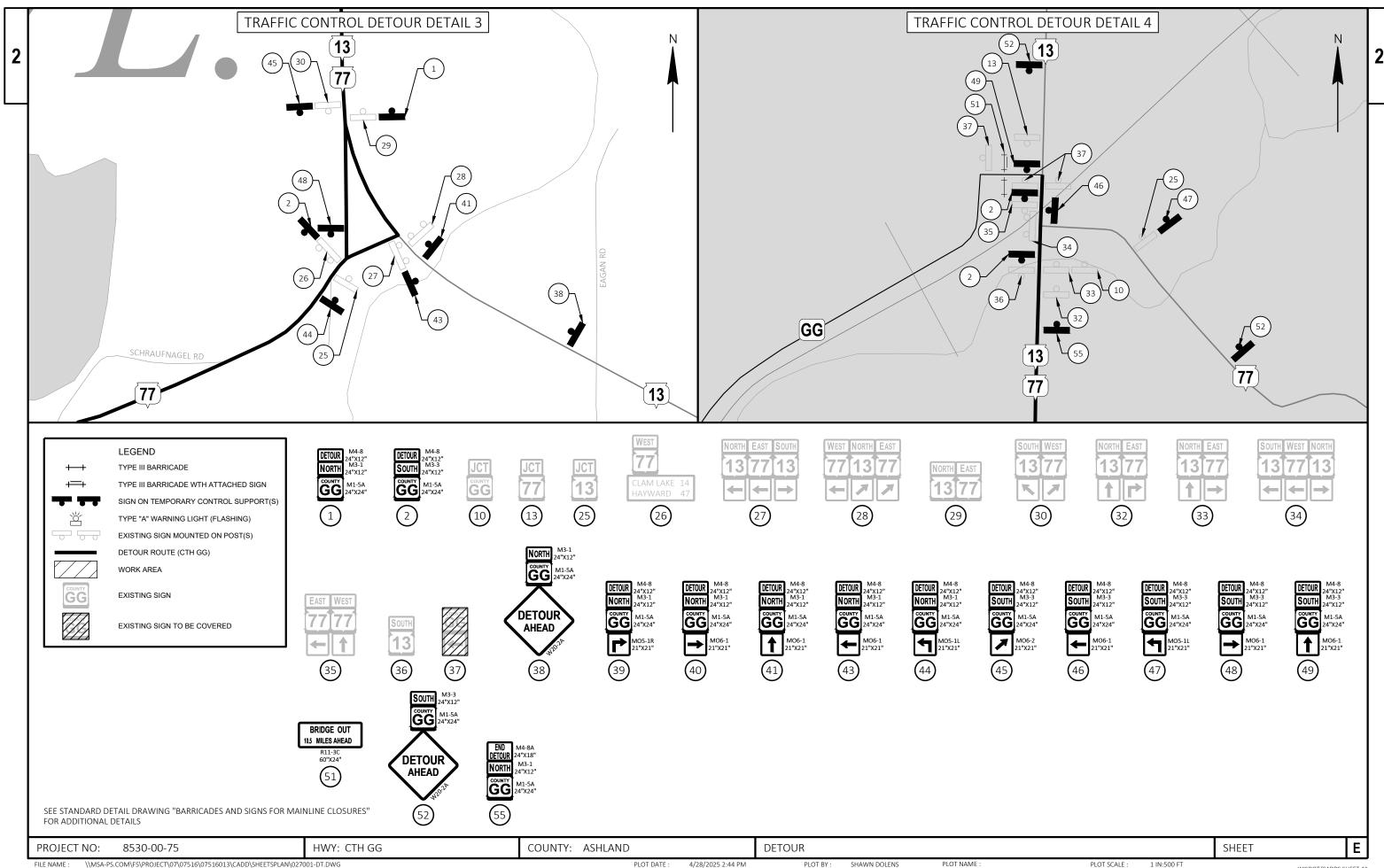


LAYOUT NAME - 022001-ec

WISDOT/CADDS SHEET 44







\\MSA-PS.COM\FS\PROJECT\07\07516\07516013\CADD\SHEETSPLAN\027001-DT.DWG SHAWN DOLENS PLOT NAME : PLOT DATE : 4/28/2025 2:44 PM PLOT BY: LAYOUT NAME - 027003-dt

3

					8530-00-75
Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	3.000	3.000
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-02-0423	EACH	1.000	1.000
0006	204.0165	Removing Guardrail	LF	675.000	675.000
8000	205.0100	Excavation Common	CY	749.000	749.000
0010	205.0506.S	Excavation, Hauling, and Disposal of Creosote Contaminated Soil	TON	105.000	105.000
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-02-0075	EACH	1.000	1.000
0014	208.0100	Borrow	CY	16.000	16.000
0016	210.1500	Backfill Structure Type A	TON	372.000	372.000
0018	213.0100	Finishing Roadway (project) 01. 8530-00-75	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	180.000	180.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,200.000	2,200.000
0024	455.0605	Tack Coat	GAL	110.000	110.000
0026	465.0105	Asphaltic Surface	TON	440.000	440.000
0028	502.0100	Concrete Masonry Bridges	CY	122.000	122.000
0030	502.3200	Protective Surface Treatment	SY	165.000	165.000
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,560.000	4,560.000
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	16,300.000	16,300.000
0036	513.4061	Railing Tubular Type M	LF	74.000	74.000
0038	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0040	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	855.000	855.000
0042	606.0300	Riprap Heavy	CY	198.000	198.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	146.000	146.000
0046	614.2300	MGS Guardrail 3	LF	300.000	300.000
0048	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0050	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0052	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8530-00-75	EACH	1.000	1.000
0054	619.1000	Mobilization	EACH	1.000	1.000
OOEC	624 0400	Water	MCAL	40,000	40,000

					8530-00-75	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	3.000	3.000	
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-02-0423	EACH	1.000	1.000	
0006	204.0165	Removing Guardrail	LF	675.000	675.000	
8000	205.0100	Excavation Common	CY	749.000	749.000	
0010	205.0506.S	Excavation, Hauling, and Disposal of Creosote Contaminated Soil	TON	105.000	105.000	
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-02-0075	EACH	1.000	1.000	
0014	208.0100	Borrow	CY	16.000	16.000	
0016	210.1500	Backfill Structure Type A	TON	372.000	372.000	
0018	213.0100	Finishing Roadway (project) 01. 8530-00-75	EACH	1.000	1.000	
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	180.000	180.000	
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,200.000	2,200.000	
0024	455.0605	Tack Coat	GAL	110.000	110.000	
0026	465.0105	Asphaltic Surface	TON	440.000	440.000	
0028	502.0100	Concrete Masonry Bridges	CY	122.000	122.000	
0030	502.3200	Protective Surface Treatment	SY	165.000	165.000	
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,560.000	4,560.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	16,300.000	16,300.000	
0034	513.4061	Railing Tubular Type M	LF	74.000	74.000	
0038	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0038	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	855.000	855.000	
0040	606.0300	Riprap Heavy	CY	198.000	198.000	
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	146.000	146.000	
0044	612.0406	MGS Guardrail 3	LF	300.000	300.000	
		MGS Thrie Beam Transition	LF			
0048	614.2500	MGS Unrie Beam Transition MGS Guardrail Terminal EAT	EACH	157.600 4.000	157.600 4.000	
0050	614.2610					
0052	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8530-00-75	EACH	1.000	1.000	
0054	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	48.000	48.000	
0058	625.0100	Topsoil	SY	1,600.000	1,600.000	
0060	628.1504	Silt Fence	LF	1,150.000	1,150.000	
0062	628.1520	Silt Fence Maintenance	LF	2,300.000	2,300.000	
0064	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0068	628.2008	Erosion Mat Urban Class I Type B	SY	1,600.000	1,600.000	
0070	628.6005	Turbidity Barriers	SY	200.000	200.000	
0072	628.7504	Temporary Ditch Checks	LF	150.000	150.000	
0074	628.7570	Rock Bags	EACH	100.000	100.000	
0076	629.0210	Fertilizer Type B	CWT	1.500	1.500	
0078	630.0120	Seeding Mixture No. 20	LB	80.000	80.000	
0800	630.0200	Seeding Temporary	LB	50.000	50.000	
0082	630.0500	Seed Water	MGAL	40.000	40.000	
0084	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0086	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0088	638.2602	Removing Signs Type II	EACH	5.000	5.000	
0090	638.3000	Removing Small Sign Supports	EACH	5.000	5.000	
0092	642.5001	Field Office Type B	EACH	1.000	1.000	
0094	643.0420	Traffic Control Barricades Type III	DAY	2,100.000	2,100.000	
0096	643.0705	Traffic Control Warning Lights Type A	DAY	4,200.000	4,200.000	
0098	643.0900	Traffic Control Signs	DAY	12,200.000	12,200.000	
0000	0-0.0300	Tamo Condo Olgrio	DAI	12,200.000	12,200.000	

Page

# Estimate Of Quantities

8530-00-75

Line	Item	Item Description	Unit	Total	Qty
0100 6	643.0920	Traffic Control Covering Signs Type II	EACH	16.000	16.000
)102 6	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0104 6	643.5000	Traffic Control	EACH	1.000	1.000
0106 6	645.0111	Geotextile Type DF Schedule A	SY	92.000	92.000
0108 6	645.0120	Geotextile Type HR	SY	395.000	395.000
0110 6	646.2005	Marking Line Paint 6-Inch	LF	2,000.000	2,000.000
)112 6	650.4500	Construction Staking Subgrade	LF	466.000	466.000
0114 6	650.5000	Construction Staking Base	LF	466.000	466.000
)116 6	650.6501	Construction Staking Structure Layout (structure) 01. B-02-0075	EACH	1.000	1.000
)118 6	650.9911	Construction Staking Supplemental Control (project) 01. 8530-00-75	EACH	1.000	1.000
0120 6	650.9920	Construction Staking Slope Stakes	LF	466.000	466.000
0122 6	690.0150	Sawing Asphalt	LF	60.000	60.000
0124 7	715.0502	Incentive Strength Concrete Structures	DOL	732.000	732.000
0126 9	999.2005.S	Maintaining Bird Deterrent System (station) 01. 628+50	EACH	1.000	1.000
0128 A	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0130 A	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0132	SPV.0090	Special 01. Flashing Stainless Steel	LF	59.000	59.000

GRI	IDD	INIC

					201.0205	
					GRUBBING	
CATEGORY	STATION	TO	STATION	LOCATION	STA	
0010	626+00	-	627+00	LT & RT	1	
0010	627+00	-	629+00	LT	2	
0010	630+00	-	631+00	LT	1	
				TOTAL 0010	3	

# **GUARDRAIL REMOVAL**

					204.0165
					REMOVING
					GUARDRAIL
CATEGORY	STATION	TO	STATION	LOCATION	LF
0010	626+83	-	628+52	RT	169
0010	626+83	-	628+52	LT	169
0010	628+52	-	630+21	RT	168
0010	628+52	-	630+21	LT	169
				TOTAL 0010	675

# **BASE AGGREGATE**

					305.0110 BASE	305.0120 BASE	624.0100	
					AGGREGATE	AGGREGATE		
					DENSE	DENSE		
					3/4-INCH	1 1/4-INCH	WATER	
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	MGAL	
0010	626+00	-	628+35	CTH GG	90	1,100	24	
0010	628+69	-	631+00	CTH GG	90	1,100	24	
				TOTAL 0010	180	2,200	48	

# <u>EARTHWORK</u>

					205.0100	(4)		(0) 51/0 11/0 55	(0)	208.0100
					EXCAVATION COMMON	(1) UNUSABLE MATERIAL	UNEXPANDED FILL	(2) EXPANDED FILL	(3) MASS ORDINATE (+/-)	BORROW
CATEGORY	STATION	TO	STATION	LOCATION	CY	CY	CY	CY	CY	CY
0010	626+00	-	628+35	CTH GG SOUTH	409	96	274	343	-30	30
0010	628+69	-	631+00	CTH GG NORTH	340	95	185	231	14	-14
						_				
				TOTAL 0010	749					16

- (1) EXISTING ASPHALT AND CONCRETE IS ASSUMED TO BE UNUSABLE MATERIAL
- (2) EXPANDED FILL FACTOR = 1.25
- (3) THE MASS ORDINATE + OR QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

# DISPOSAL OF CREOSOTE SOIL

					205.0506.S
					EXCAVATION,
					HAULING, AND
					DISPOSAL OF
					CREOSOTE
					CONTAMINATED
					SOIL
CATEGORY	STATION	TO	STATION	LOCATION	TON
0010	628+30	-	628+42	MAINLINE	52
0010	628+60	-	628+72	MAINLINE	53
				TOTAL 0010	105

# <u>ASPHALT</u>

					455.0605	465.0105
						ASPHALTIC
					TACK COAT	SURFACE
CATEGORY	STATION	TO	STATION	LOCATION	GAL	TON
0010	626+18	-	628+35	CTH GG	55	220
0010	628+69	-	630+85	CTH GG	55	220
				TOTAL 0010	110	440

HWY: LOC STR COUNTY: ASHLAND SHEET E PROJECT NO: 8530-00-75 MISCELLANEOUS QUANTITIES

3

<u>GUARDRAIL</u> <u>RESTORATION</u>

				614.2300	614.2500 MGS THRIE	614.2610				625.0100	628.2008 EROSION MAT	629.0210	630.0120	630.0200	630.0500
				MGS GUARDRAIL	BEAM	MGS GUARDRAIL					URBAN CLASS I	FERTILIZER TYPE	SEEDING	SEEDING	
				3	TRANSITION	TERMINAL EAT				TOPSOIL	TYPEB	В	MIXTURE NO. 20	TEMPORARY	SEED WATER
CATEGORY	STATION	TO STATION	LOCATION	LF	LF	EACH	CATEGORY	STATION TO STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
0010	626+70	- 628+37	RT	75	39.4	1	0010	626+00 - 628+35	RT	560	560	0.4	25	15	13
0010	626+70	- 628+37	LT	75 75	39.4	1	0010	626+00 - 628+35	LT	440	440	0.3	20	12	10
0010	628+67	- 630+34	RT	75	39.4	1	0010	628+69 - 631+00	RT	260	260	0.2	12	7	6
0010	628+67	- 630+34	LT	75	39.4	1	0010	628+69 - 631+00	LT	280	280	0.2	13	8	7
									UNDISTRIBUTED	60	60	0.4	10	8	4
			TOTAL 0010	300	157.6	4									
									TOTAL 0010	1,600	1,600	1.5	80	50	40

# **EROSION CONTROL**

					606.0300	628.1504	628.1520	628.1905	628.1910	628.6005	628.7504	628.7570	645.0120
									MOBILIZATIONS				
					RIPRAP		SILT FENCE	MOBILIZATIONS	<b>EMERGENCY</b>	TURBIDITY	TEMPORARY		GEOTEXTILE
					HEAVY	SILT FENCE	MAINTENANCE	<b>EROSION CONTROL</b>	<b>EROSION CONTROL</b>	BARRIERS	DITCH CHECKS	<b>ROCK BAGS</b>	TYPE HR
CATEGORY	STATION	TO	STATION	LOCATION	CY	LF	LF	EACH	EACH	SY	LF	EACH	SY
0010	626+00	-	628+35	RT		250	500				30	17	
0010	626+00	-	628+35	LT		250	500				30	17	
0010			628+50	MCCARTHY CREEK SOUTH SIDE						100			
0010			628+55	MCCARTHY CREEK NORTH SIDE						80			
0010	628+69	-	631+00	RT		250	500				45	17	
0010	628+69	-	631+00	LT	100	280	560				15	17	200
				UNDISTRIBUTED		120	240	4	2	20	30	32	
										-			
				TOTAL 0010	100	1,150	2,300	4	2	200	150	100	200

# <u>PERMANENT SIGNING</u>

CATEGORY	STATION	LOCATION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	628+33	17' RT	1	3	1	1	W5-52R
0010	628+33	17'LT	1	3	1	1	W5-52L
0010	628+71	17'RT	1	3	1	1	W5-52L
0010	628+71	17'LT	1	3	1	1	W5-52R
0010	628+71	19'LT			1	1	"MCCARTHY CREEK" SIGN
		TOTAL 0010	4	12	5	5	-

FILE NAME : G\07\07516\07516\07516013\CADD\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 030201-mq

PROJECT NO: 8530-00-75

HWY: LOC STR

PLOT DATE: 2/14/2025 1:28 PM

COUNTY: ASHLAND

PLOT BY ZACH RICKMAN

MISCELLANEOUS QUANTITIES

PLOT NAME:

PLOT SCALE : 1" = 1"

WISDOT/CADDS SHEET 42

SHEET

E

# TRAFFIC CONTROL

											·
			643.	0420	643.	.0705	643	.0900	643.0	0920	643.1000
			TRAFFIC	CONTROL	TRAFFIC	CONTROL			TRAFFIC (	CONTROL	TRAFFIC
			BARR	ICADES	WARNIN	IG LIGHTS	TRAFFIC	CONTROL	COVERIN	IG SIGNS	CONTROL SIGNS
			TYI	PEIII	TY	PEA	SI	GNS	TYP	EII	FIXED MESSAGE
CATEGORY	LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	CYCLES	EACH	SF
0010	PROJECT	7									36
0010	PROJECT	75	26	1,950	52	3,900	153	11,475	1	16	
	UNDISTRIBUTED			150		300		725			
	TOTAL 0010			2,100		4,200		12,200		16	36

\*G20-57 SIGNS TO BE PLACED AT PROJECT TERMINI 7 DAYS PRIOR TO CONSTRUCTION AND REMOVED WHEN CONSTRUCTION BEGINS

# **CONSTRUCTION STAKING**

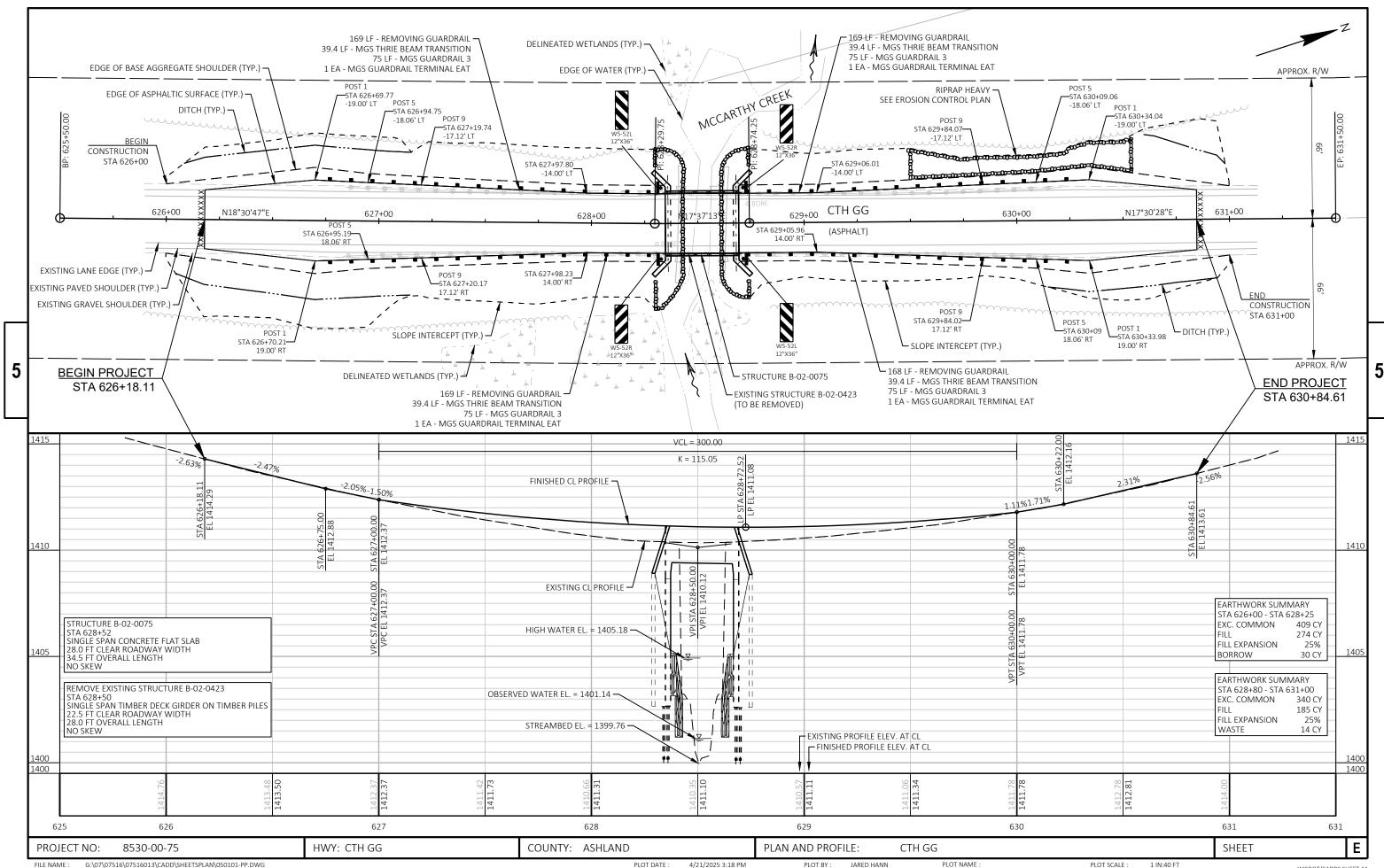
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									650.4500	650.5000	650.9920	650.9911.01
												CONSTRUCTION STAKING
			646.2005						CONSTRUCTION		CONSTRUCTION	SUPPLEMENTAL
			MARKING LINE						STAKING	CONSTRUCTION	STAKING SLOPE	CONTROL (PROJECT)
			PAINT 6-INCH						SUBGRADE	STAKING BASE	STAKES	(01.8530-00-75)
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	CATEGORY	STATION	TO STATION	LOCATION	LF	LF	LF	EACH
0010	626+00 - 631+00	CTH GG	1,000	DOUBLE YELLOW CENTERLINE	0010	626+00	- 628+35	CTH GG	235	235	235	
0010	626+00 - 631+00	CTH GG RT	500	WHITE EDGELINE	0010	628+69	- 631+00	CTH GG	231	231	231	
0010	626+00 - 631+00	CTH GG LT	500	WHITE EDGELINE				PROJECT				1
				<u>_</u>								
		TOTAL 0010	2,000					TOTAL 0010	466	466	466	1

# <u>SAWING</u>

			690.0150
			SAWING
			ASPHALT
CATEGORY	STATION	LOCATION	LF
0010	626+18.11	CTH GG	30
0010	630+84.61	CTH GG	30
		TOTAL 0010	60

HWY: LOC STR COUNTY: ASHLAND E SHEET PROJECT NO: 8530-00-75 MISCELLANEOUS QUANTITIES PLOT DATE: 2/14/2025 1:28 PM PLOT BY ZACH RICKMAN PLOT NAME:



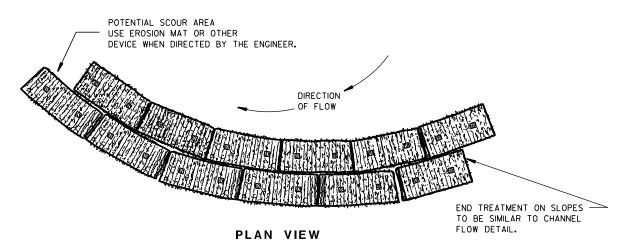
# Standard Detail Drawing List

08E08-03 08E09-06 08E11-02	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS SILT FENCE TURBLDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
14B42-07A	MIDWEST GUARDRALL SYSTEM (MGS) GUARDRALL
14B42-07B 14B42-07C	MIDWEST GUARDRALL SYSTEM (MGS) GUARDRALL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D 14B44-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

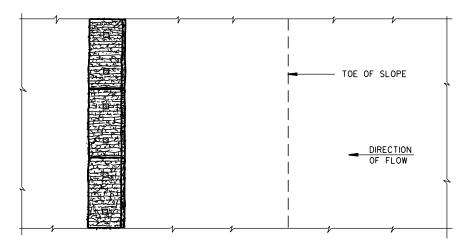
## **GENERAL NOTES**

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

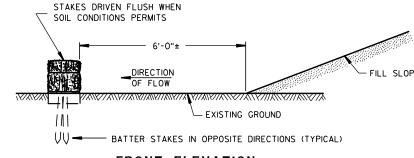
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



## **PLAN VIEW**



### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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# TYPICAL APPLICATION OF SILT FENCE

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# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



# GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

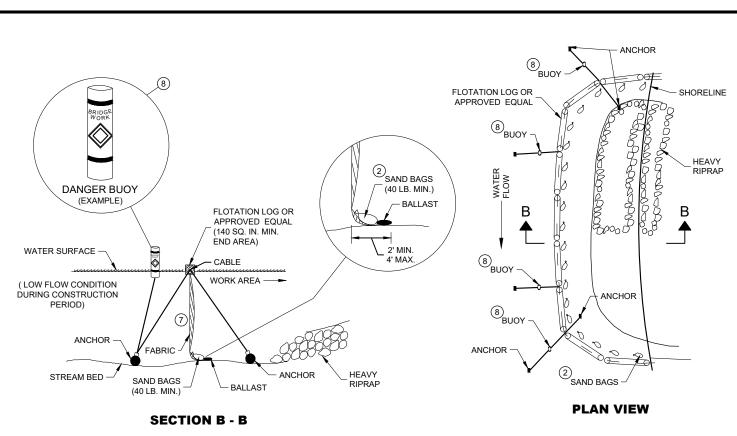
(WHEN REQUIRED BY THE ENGINEER)



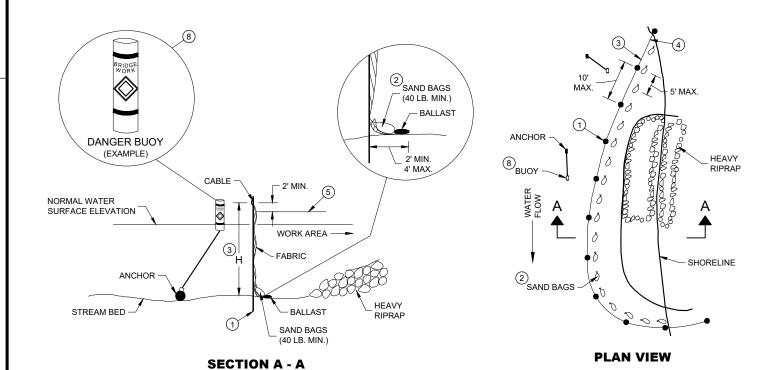
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D.D. 8 E 9-6



# TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



**TURBIDITY BARRIER - STANDARD POST INSTALLATION** 

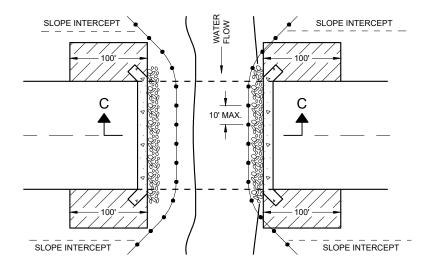
# **TURBIDITY BARRIER PLACEMENT DETAILS**

## **GENERAL NOTES**

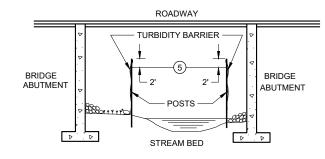
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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) SAND BAGS 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 FEET, 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. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



**PLAN VIEW** 



SECTION C - C

# TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

# TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

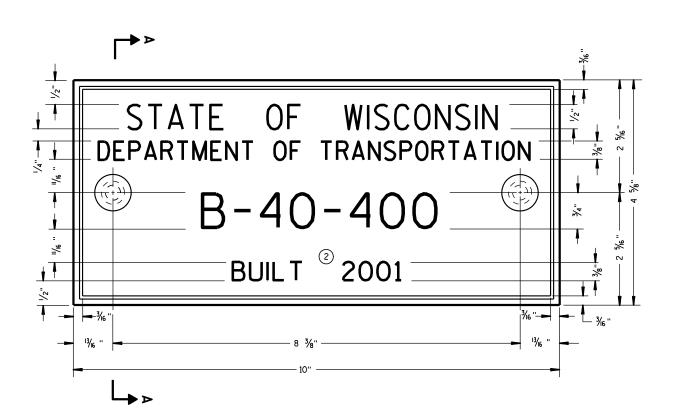
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 APPROVED
 /S/ Beth Cannestra

 6/4/02
 /S/ Beth Cannestra

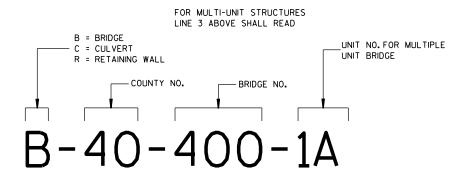
 DATE
 CHIEF ROADWAY DEVELOPMENT ENGINEER





# TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



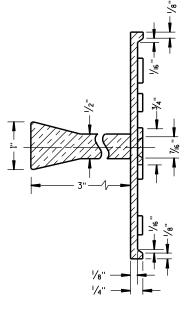
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

# **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.

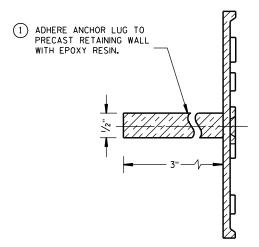
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

# NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

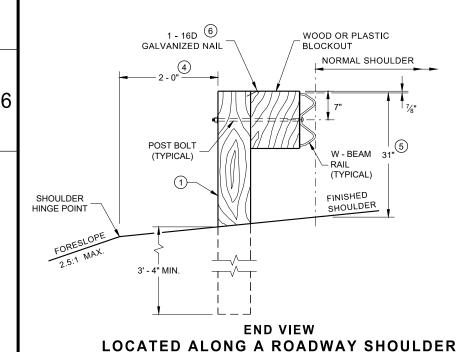
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

3-10

- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE 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).
- $\fill \ensuremath{5}$  FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " 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.
- $\bigcirc$  TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".



STANDARD INSTALLATION

FILL WITH
FOUNDATION
BACKFILL

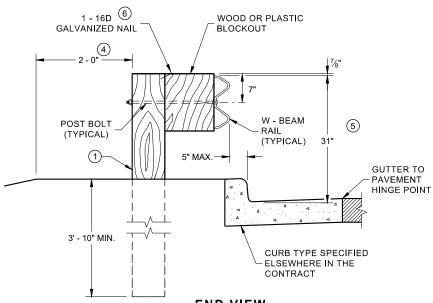
44 ½" MIN.
WHERE "A"
IS ≥ 22"

2½"

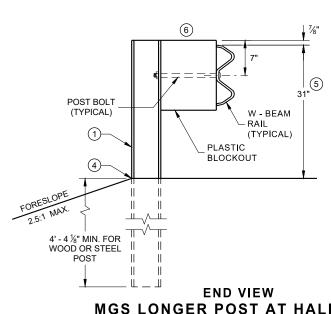
2" MIN.

20" MIMIMUM EMBEDMENT IN SOLID
ROCK IF SHORTENED POST IS USED
WHERE "A" IS ≤ 22"

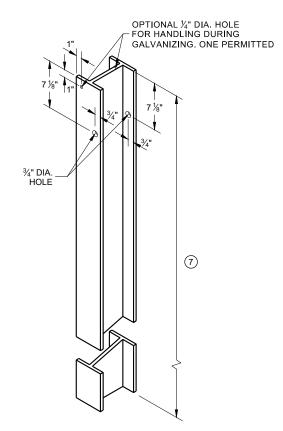
SETTING STEEL OR WOOD POST IN ROCK



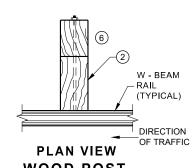
END VIEW
LOCATED ALONG A CURBED ROADWAY



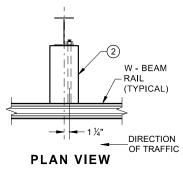
END VIEW
MGS LONGER POST AT HALFPOST
SPACING W BEAM (K)



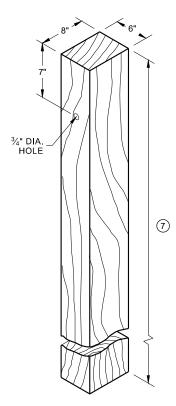
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) <sup>①</sup>



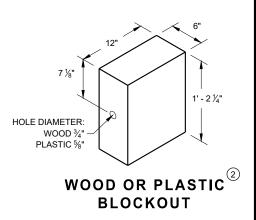
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



# MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 07

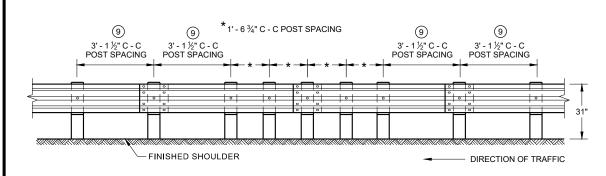
# POST SPACING POST SPACING FINISHED SHOULDER DIRECTION OF TRAFFIC

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

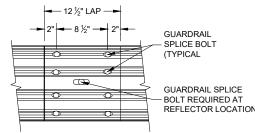
6' 3" C - C

6' - 3" C -C

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



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



¾" X 2 ½" POST BOLT

# REFLECTOR LOCATIONS

C POST HOLE SLOT

POST BOLT

(TYPICAL)

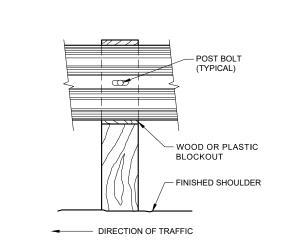
- WOOD OR PLASTIC

BLOCKOUT

# **FRONT VIEW MID-SPAN BEAM SPLICE**

— DIRECTION OF TRAFFIC

FRONT VIEW AT STEEL POST



**GENERAL NOTES** 

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

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

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

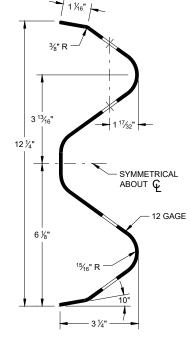
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

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

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

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

FRONT VIEW AT WOOD POST



**SECTION THRU W-BEAM RAIL** 

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

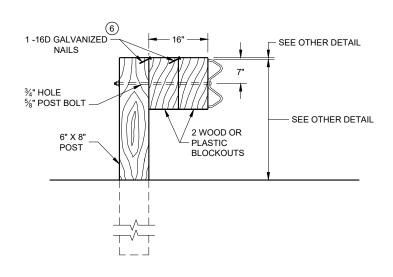
**ONE SIDED REFLECTOR DETAIL** AND TYPICAL INSTALLATION

**MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

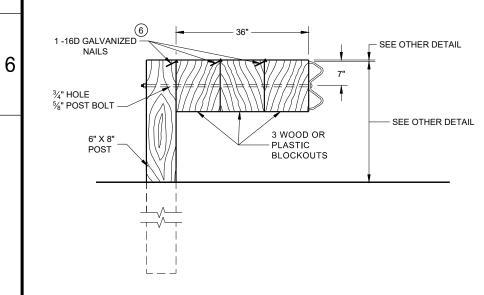
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**07**b SDD



# **DETAIL FOR 16" BLOCKOUT DEPTH**

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



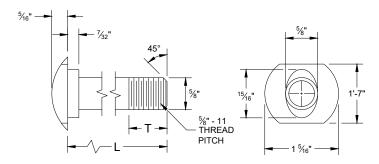
# **DETAIL FOR 36" BLOCKOUT DEPTH**

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

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

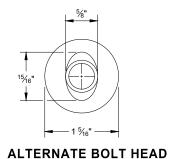
### NOTE:

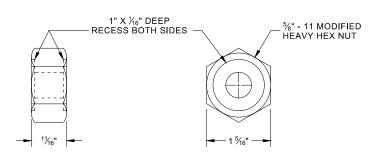
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF  $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



# **POST BOLT TABLE**

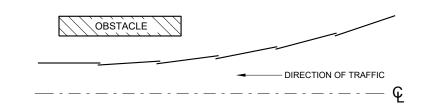
L	T (MIN.)
1 1⁄4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



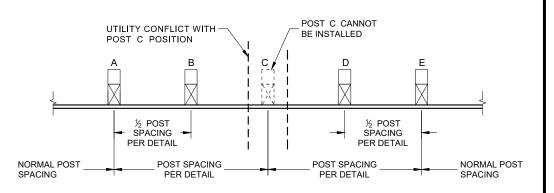


# POST BOLT, SPLICE BOLT **AND RECESS NUT**

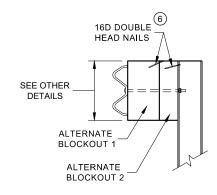
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

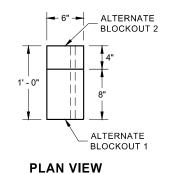


# **PLAN VIEW BEAM LAPPING DETAIL**



# POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

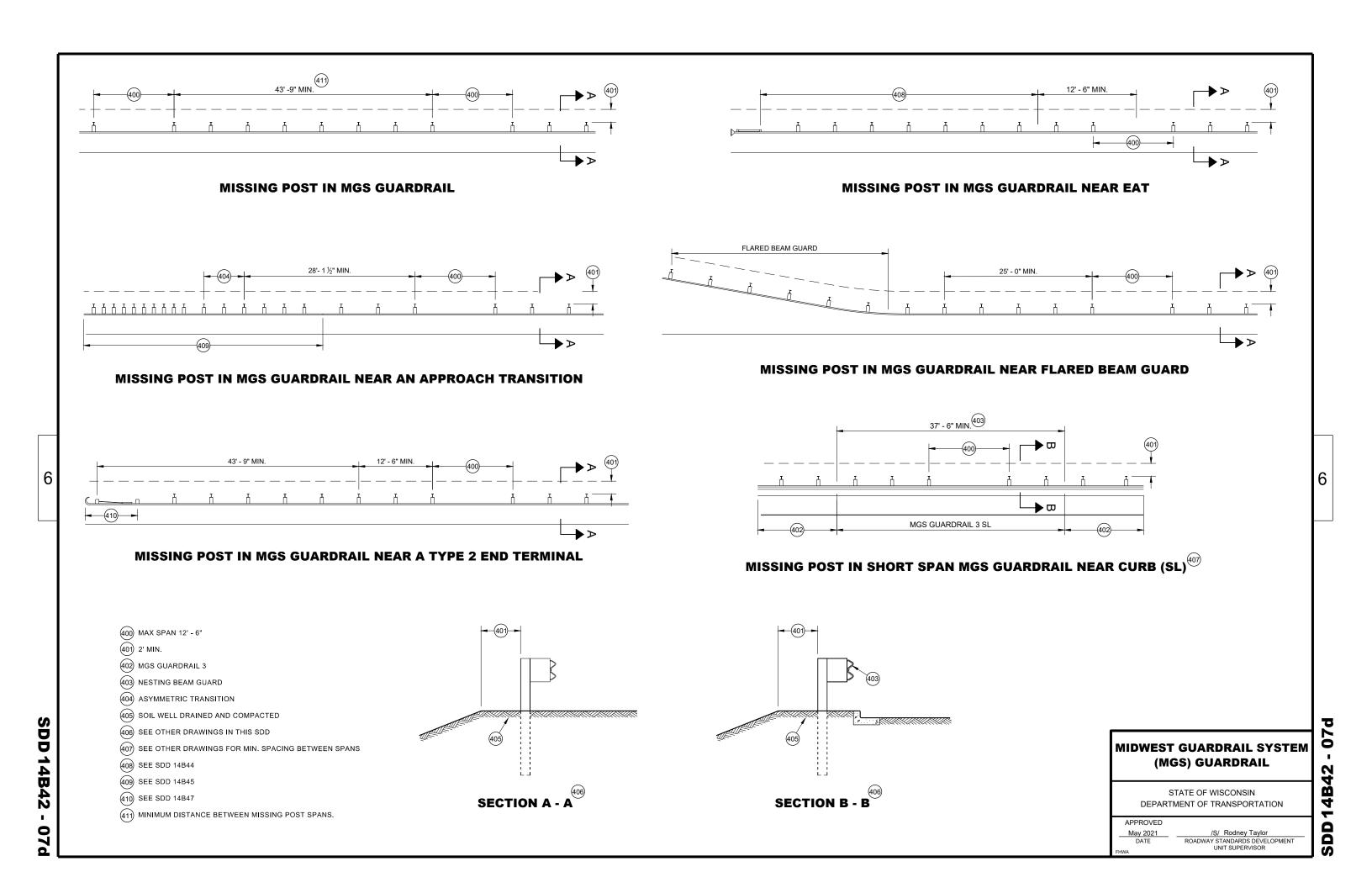
**ALTERNATE WOOD BLOCKOUT DETAIL** 

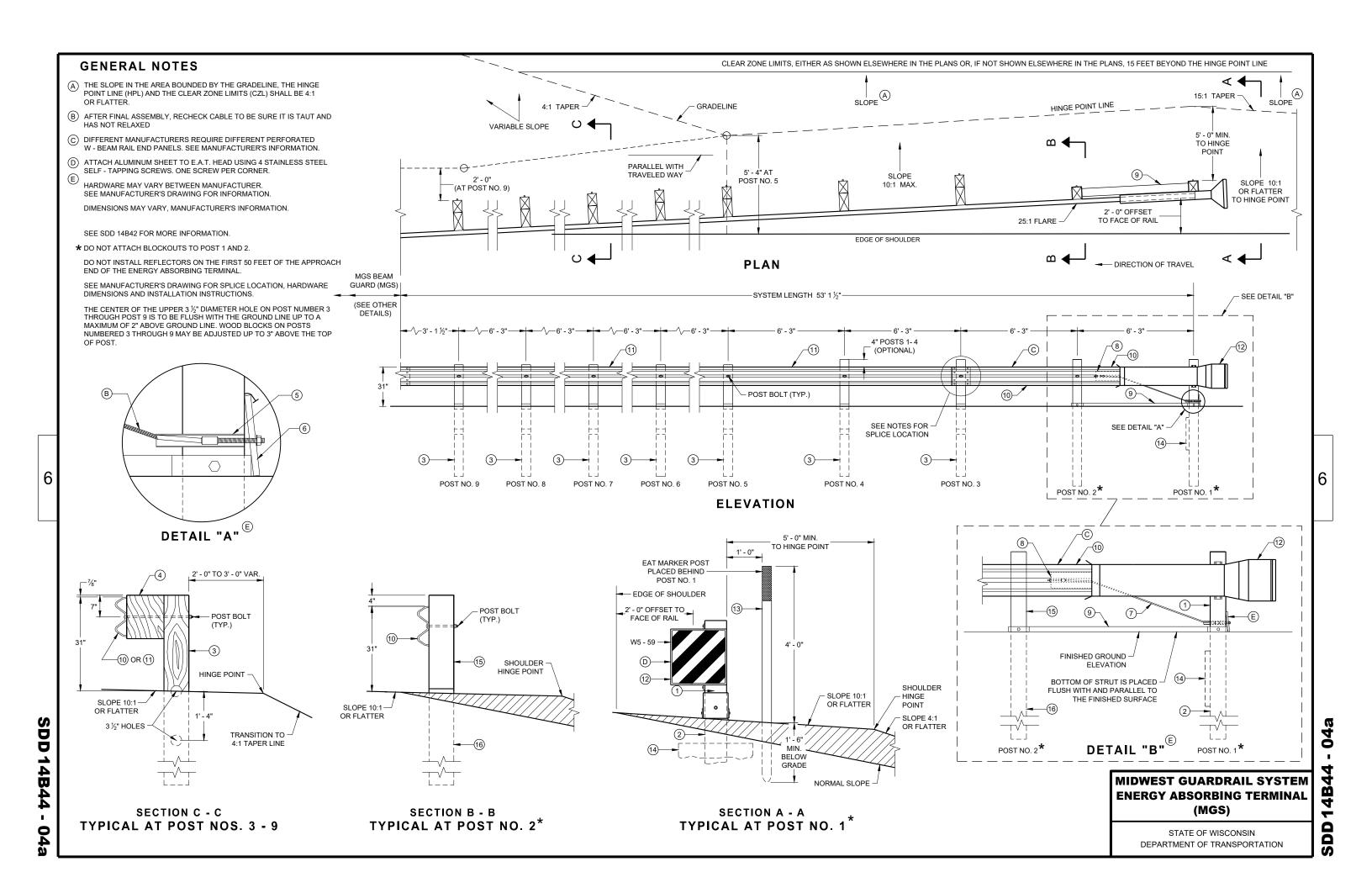
# **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

07

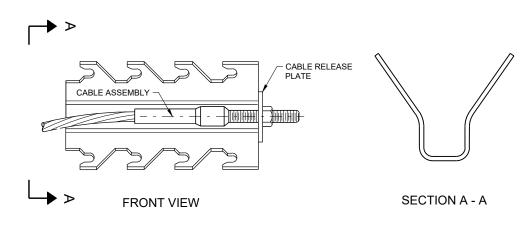
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

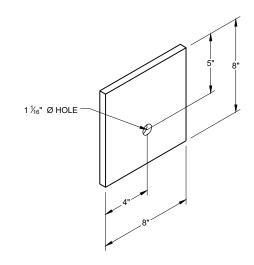




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX <sup>(9) (E)</sup>



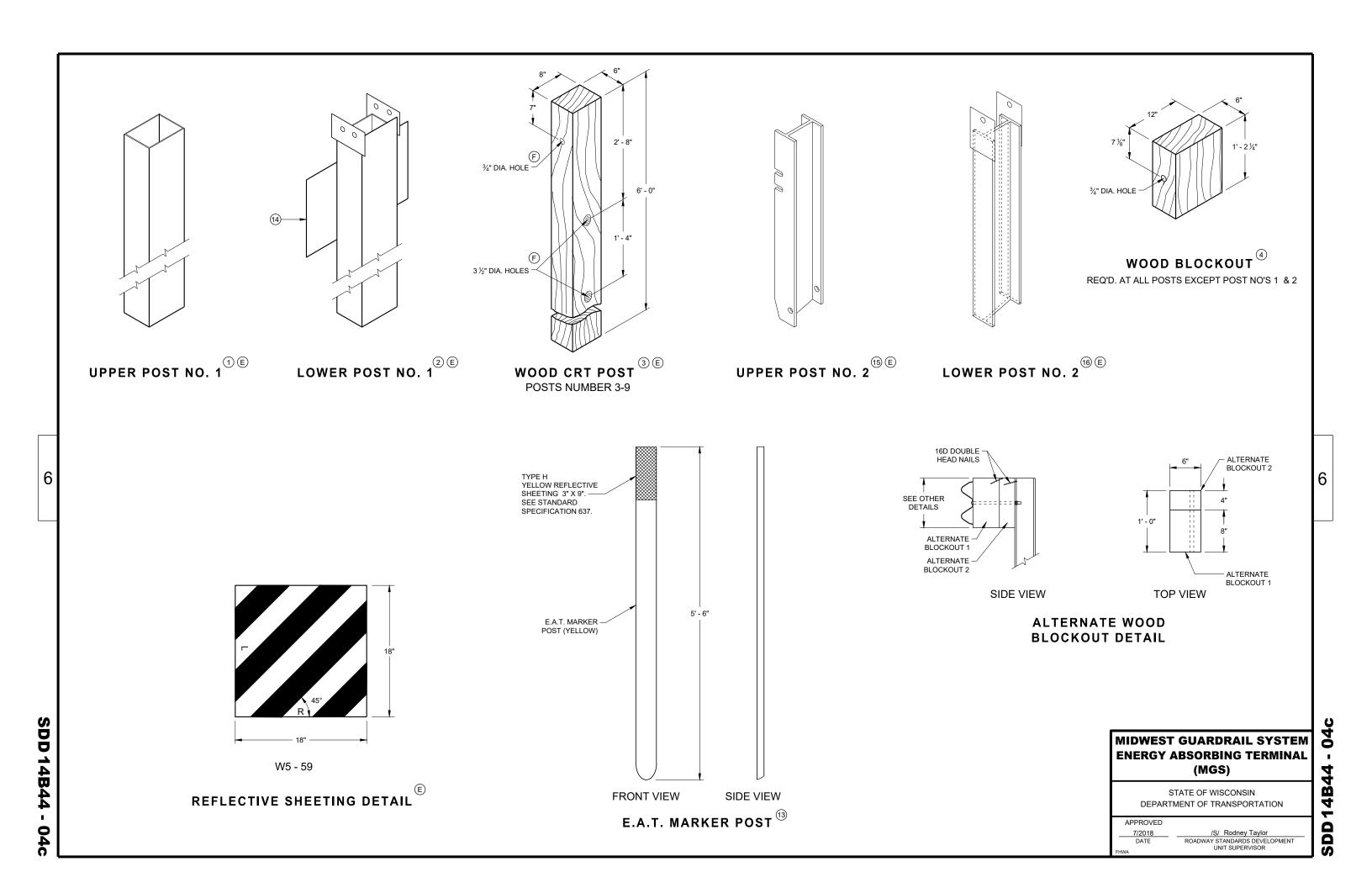
BEARING PLATE

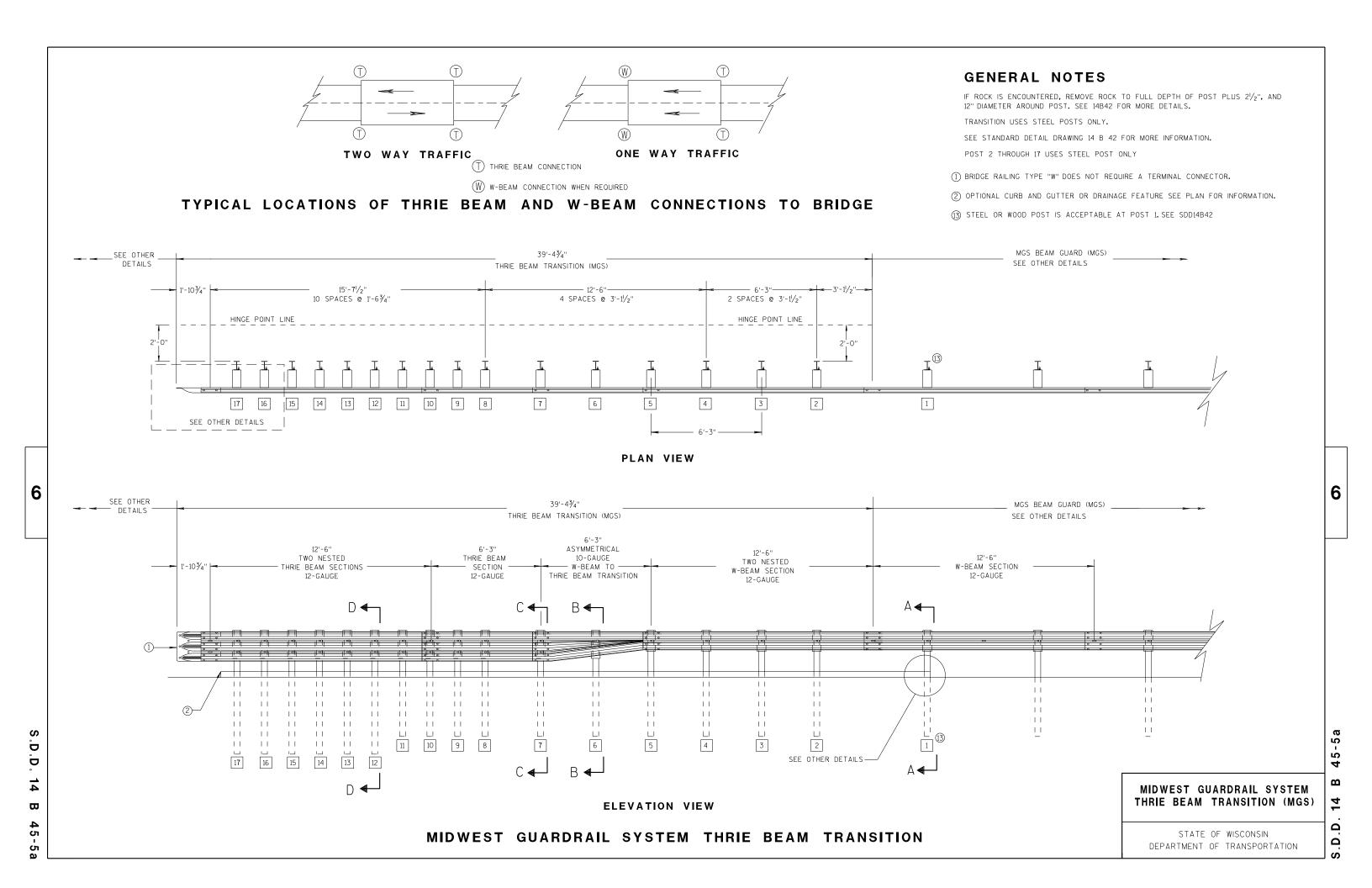
# MIDWEST GUARDRAIL SYSTEM **ENERGY ABSORBING TERMINAL** (MGS)

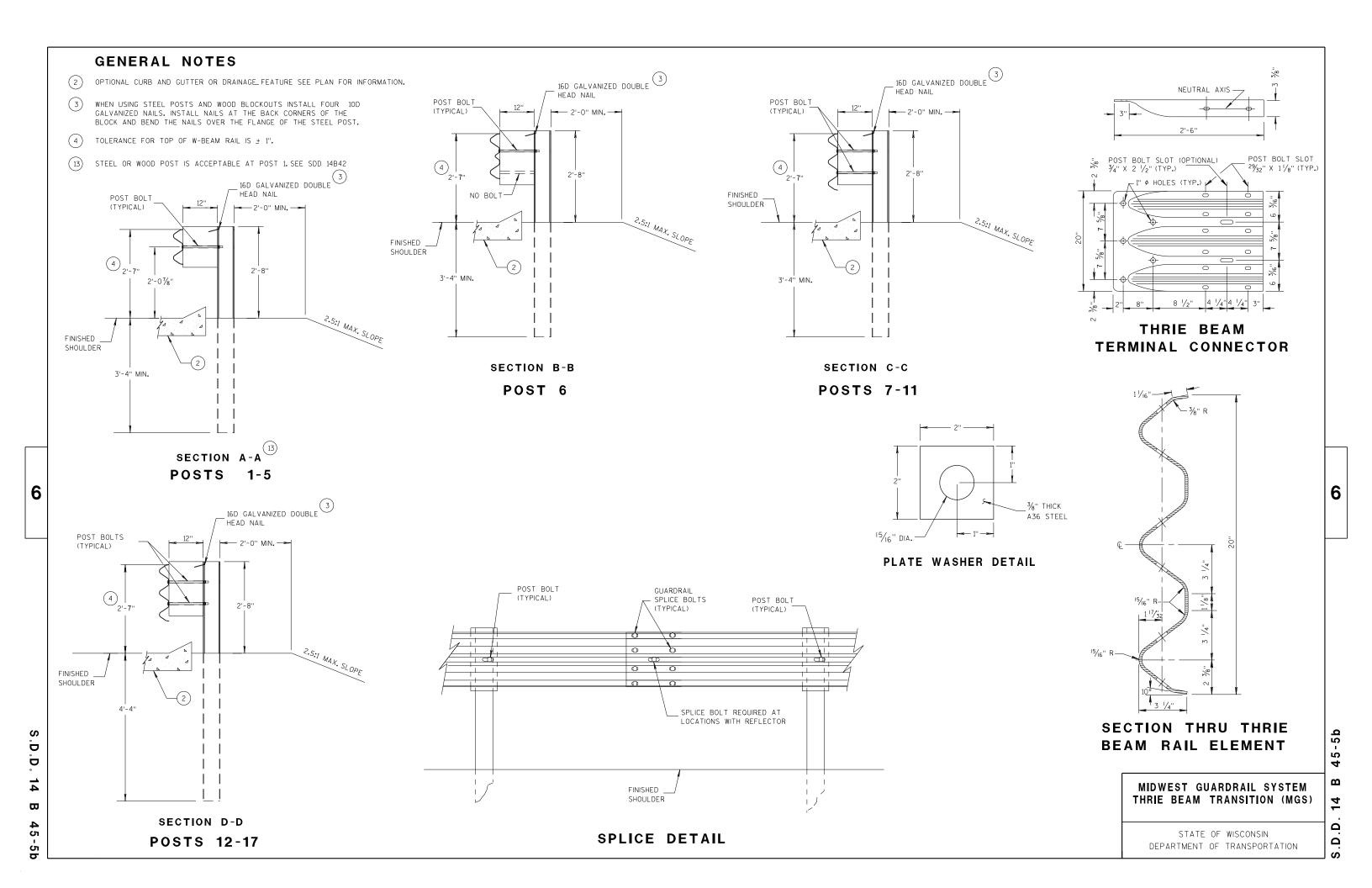
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

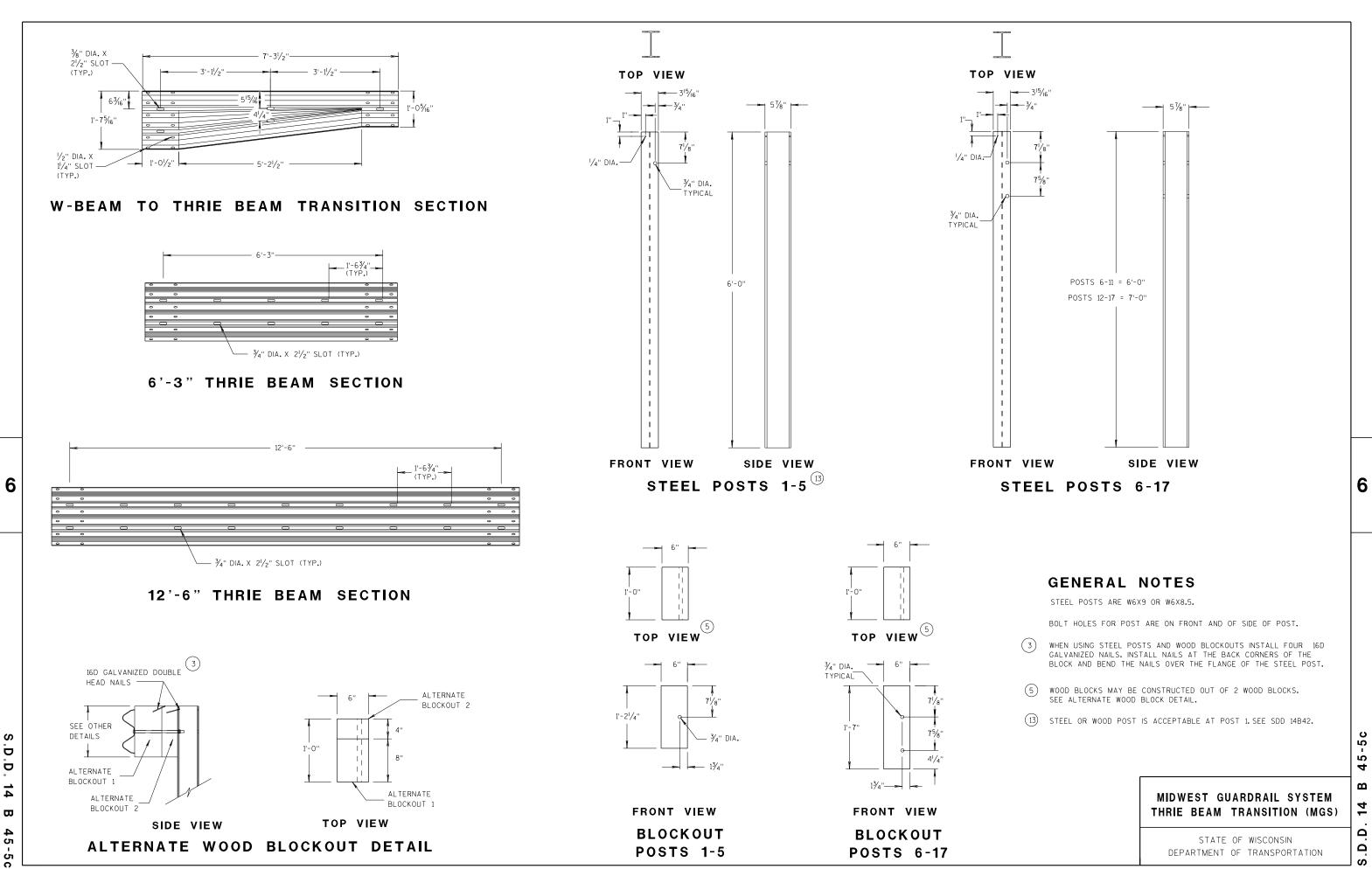
**SDD 14B44** 

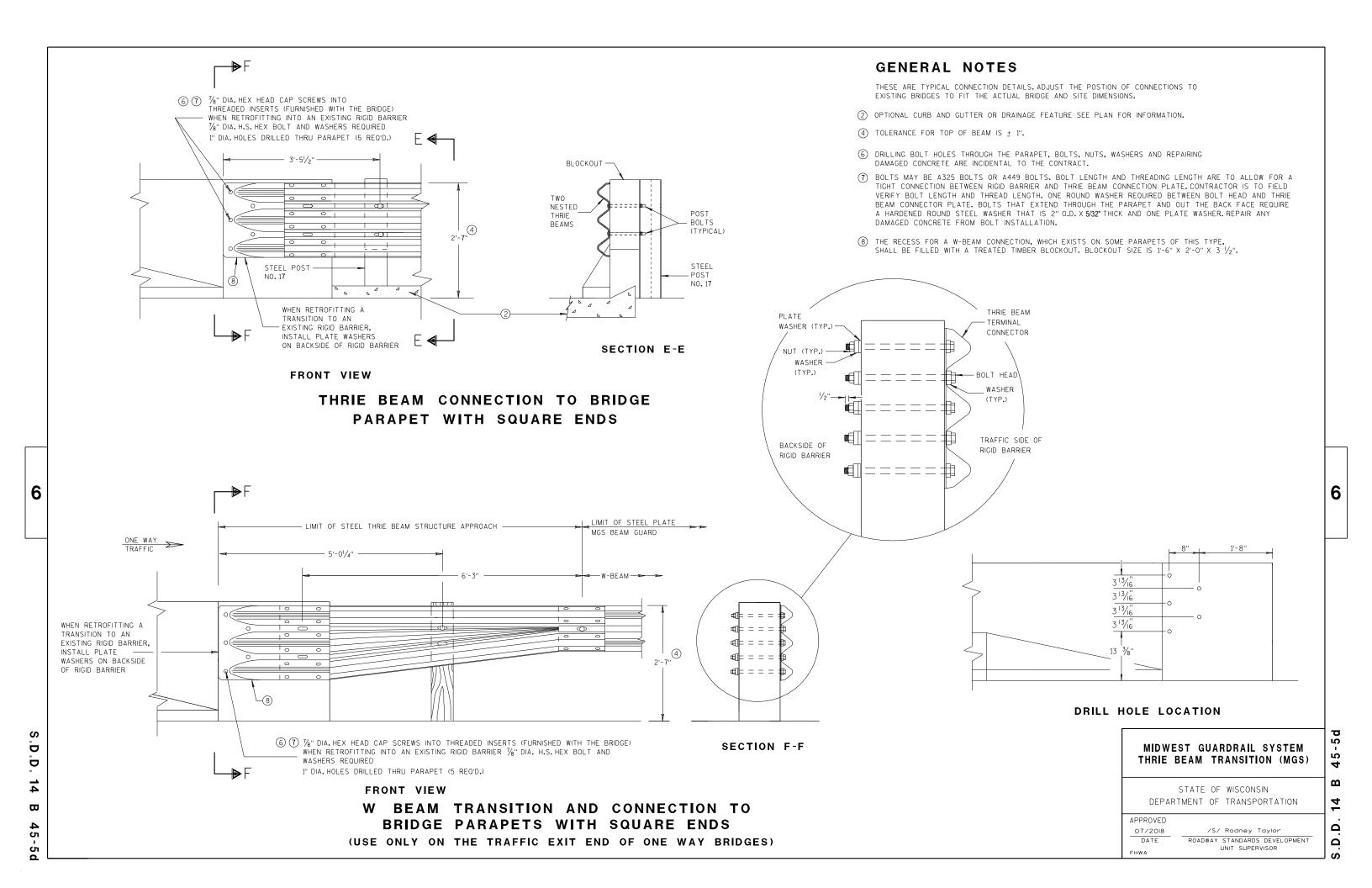
SDD



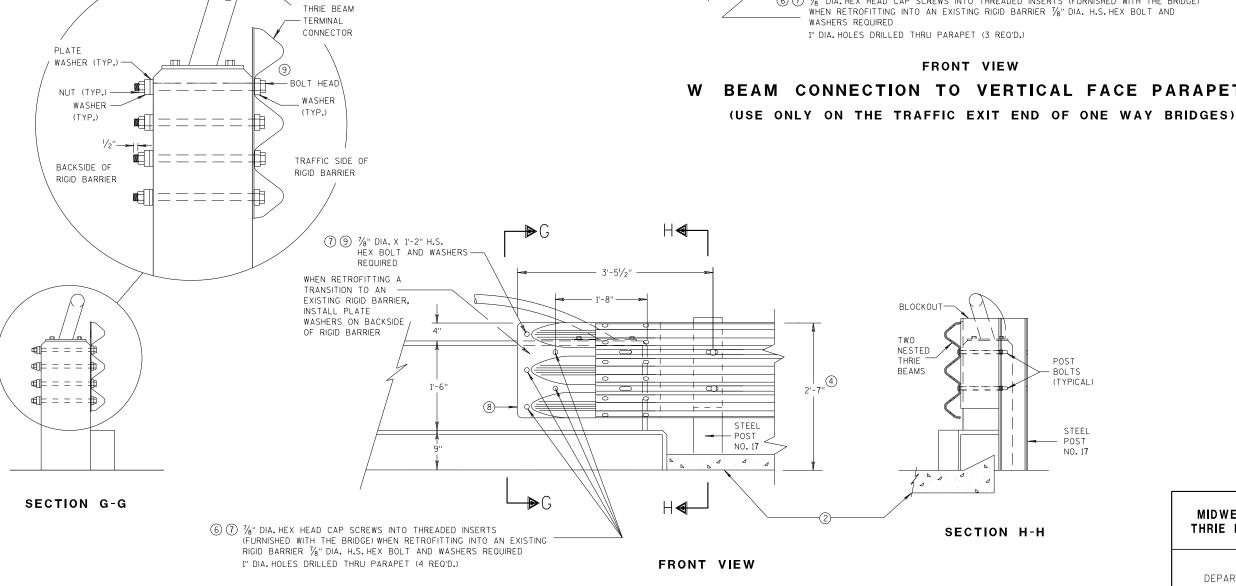








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH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



# THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

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

# BEAM CONNECTION TO VERTICAL FACE PARAPET

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

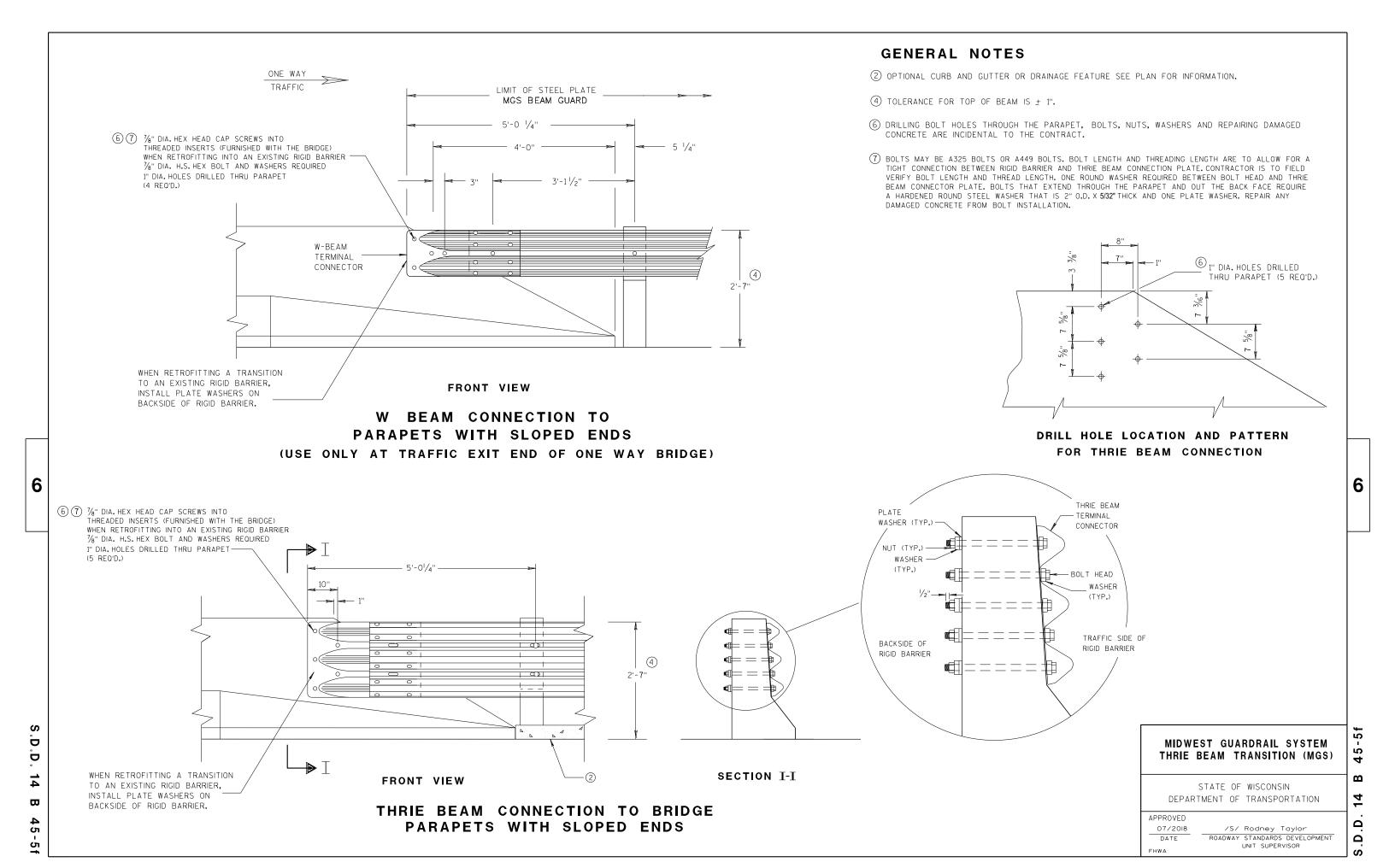
APPROVED /S/ Rodney Taylor 07/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

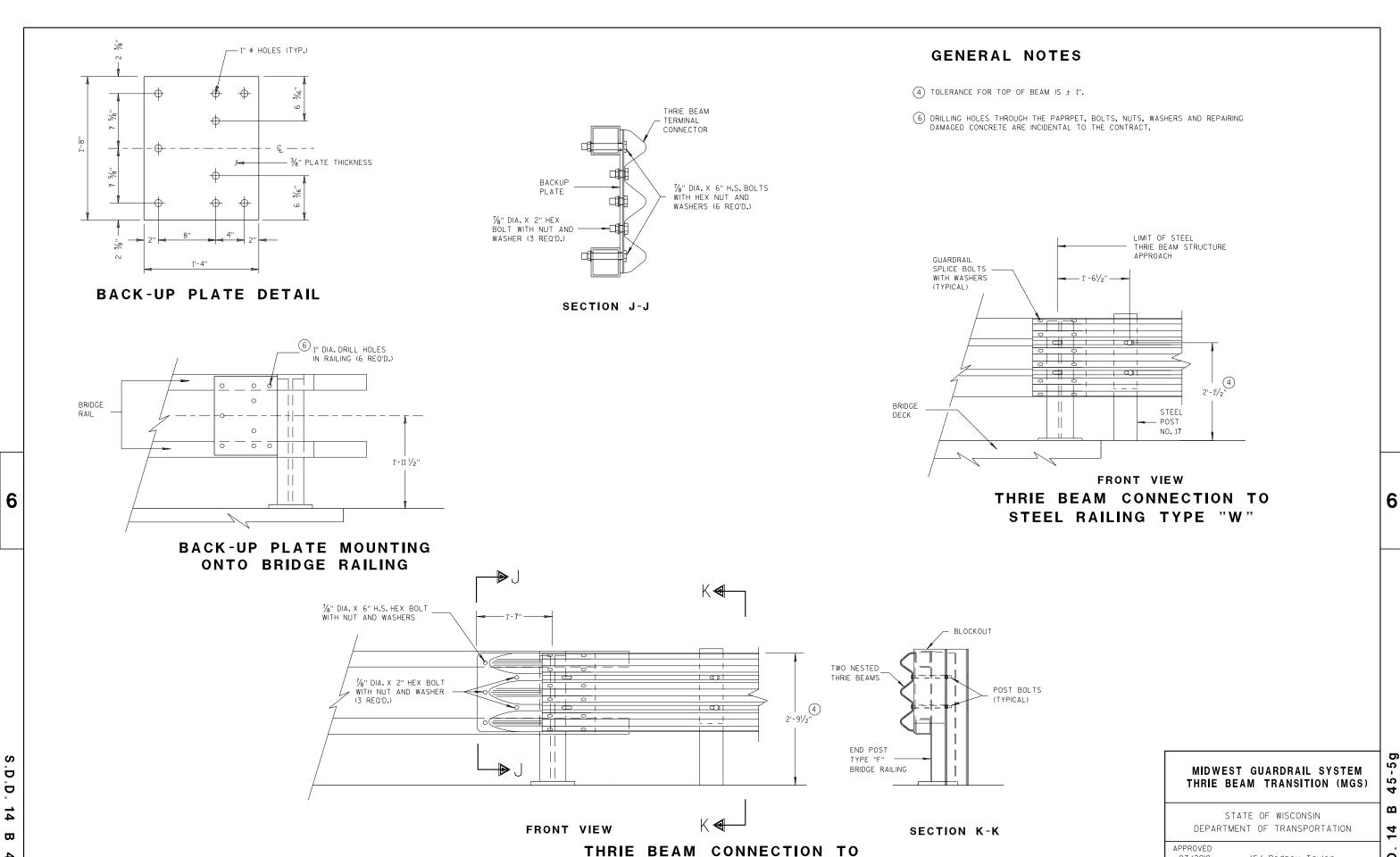
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TUBULAR RAILING TYPE "F"

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S.D.D. 14 B 45-5

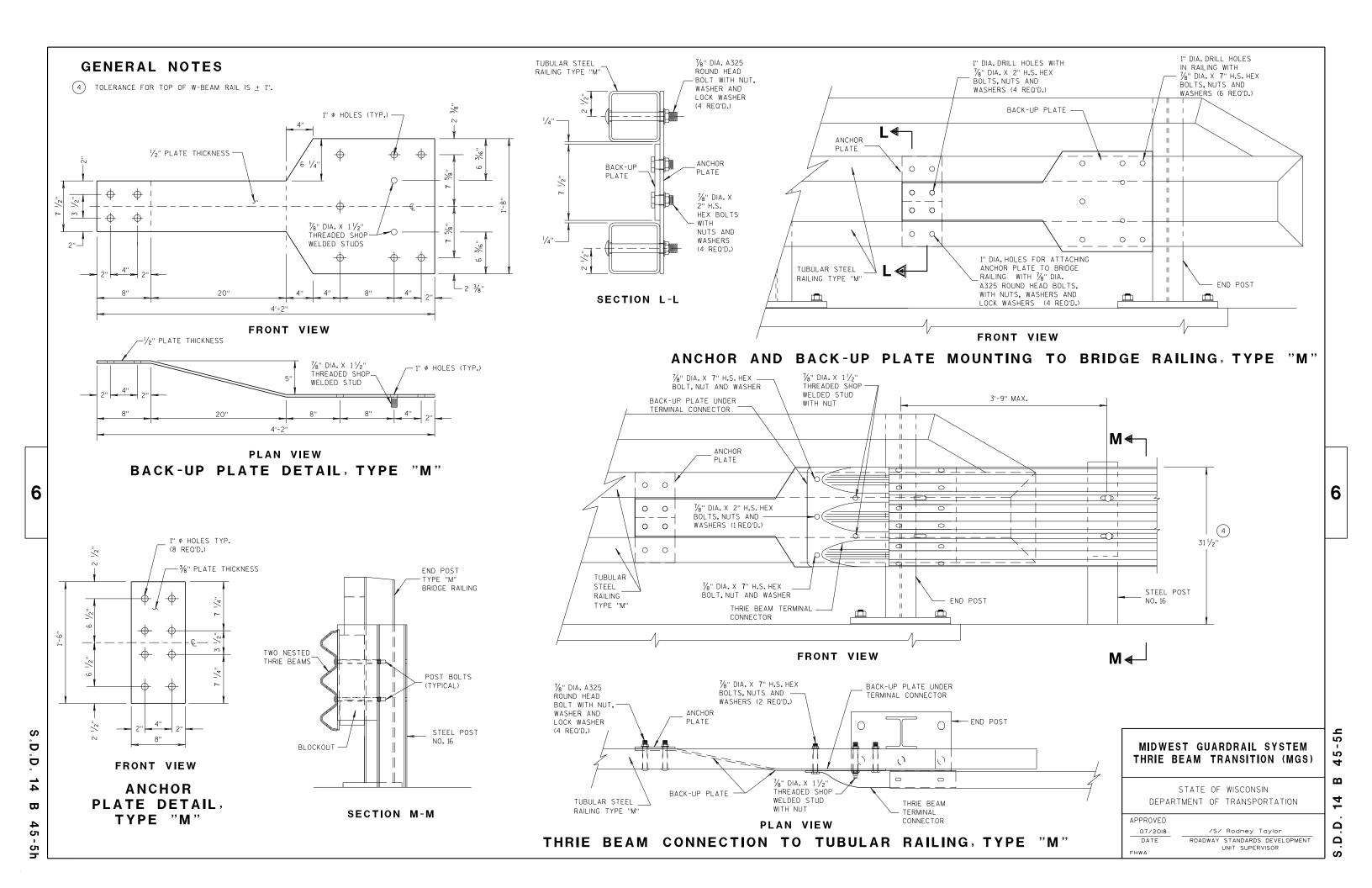
07/2018

DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR



# **WELDING INSTRUCTION**

21/2"

101/2"

(VIEWED FROM BACK SIDE OF PLATE)

# PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

	CONNE		R PLATE DIMENSI R Assembly)	ION
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	ВЁ	20" × 20"	3/16"
P2	1	B₽€	20" × 20" × 28%6"	3/16"
Р3	1	B <del>_</del> CD	39" × 35/8" × 20" × 195/6"	3/16"
S1	4	B A	18 1/6" × 35/8" × 18 3/4"	1/4"
S2	1	B O	$10^{1}/_{4}$ " × $2\frac{7}{16}$ " × $10\frac{3}{8}$ " × $\frac{1}{2}$ "	1/4"
S3	1	B₽D	3" × 1½6" × 3½" × ½"	1/4"
S4	1	В□	61/8" × 27/16"	1/4"
S5	1	в∟	6½" × ½'6"	1/4"
S6	1	в≞	7¾" × 1¾"	1/4"
S <b>7</b>	1	ABC	2%6" × 6" × 3%" × 5%"	1/4"
S8	1	A B C	$1^{5}/_{32}$ " × $7^{1}/_{2}$ " × $2^{1}/_{2}$ " × $7^{3}/_{8}$ "	1/4"
S9	1	C B	$6\frac{1}{16}$ " × $6\frac{3}{6}$ " × $1\frac{3}{32}$ "	1/4"
S10	1	ABC	11/8" × 91/8" × 35/8" × 911/16"	1/4"
S11	1	C A	8½" × 8¾" × 1 <sup>13</sup> / <sub>16</sub> "	1/4"

BACK SIDE OF PLATE

# SINGLE SLOPE CONNECTION PLATE

# MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

**GENERAL NOTES** COVER PLATE PANELS ARE 3/16" THICK.

BACK SIDE OF PLATE

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

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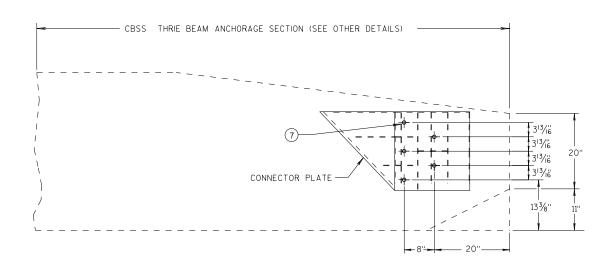
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#### THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

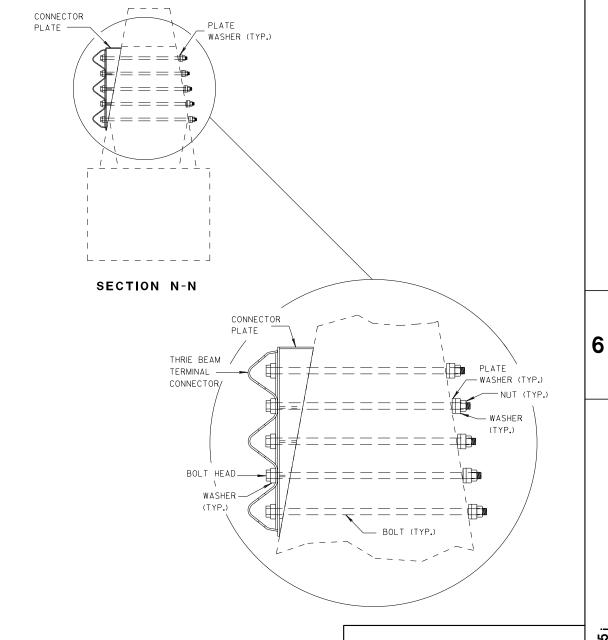


#### SINGLE SLOPE CONNECTION PLATE PLACEMENT

#### **GENERAL NOTES**

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

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



#### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE
ROADWAY

/S/ Rodney Taylor

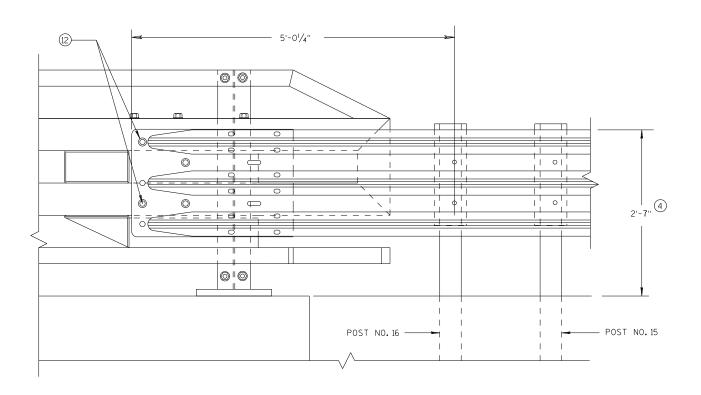
ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

D.D. 14 B

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THRIE BEAM RAIL ATTACHMENT



#### ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

#### **GENERAL NOTES**

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

### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 /S/ RODNEY Taylor

DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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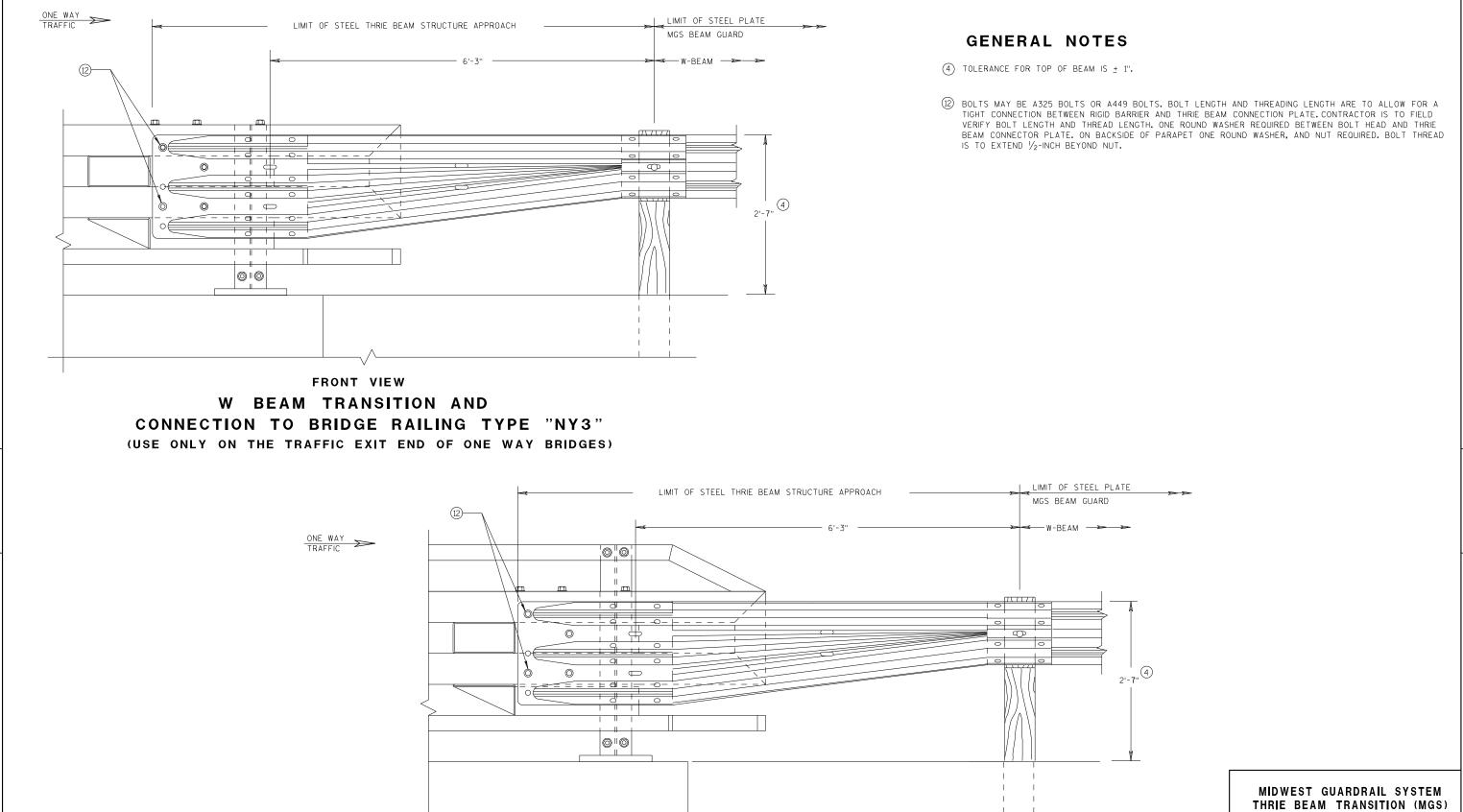
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FRONT VIEW

W BEAM TRANSITION AND

CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

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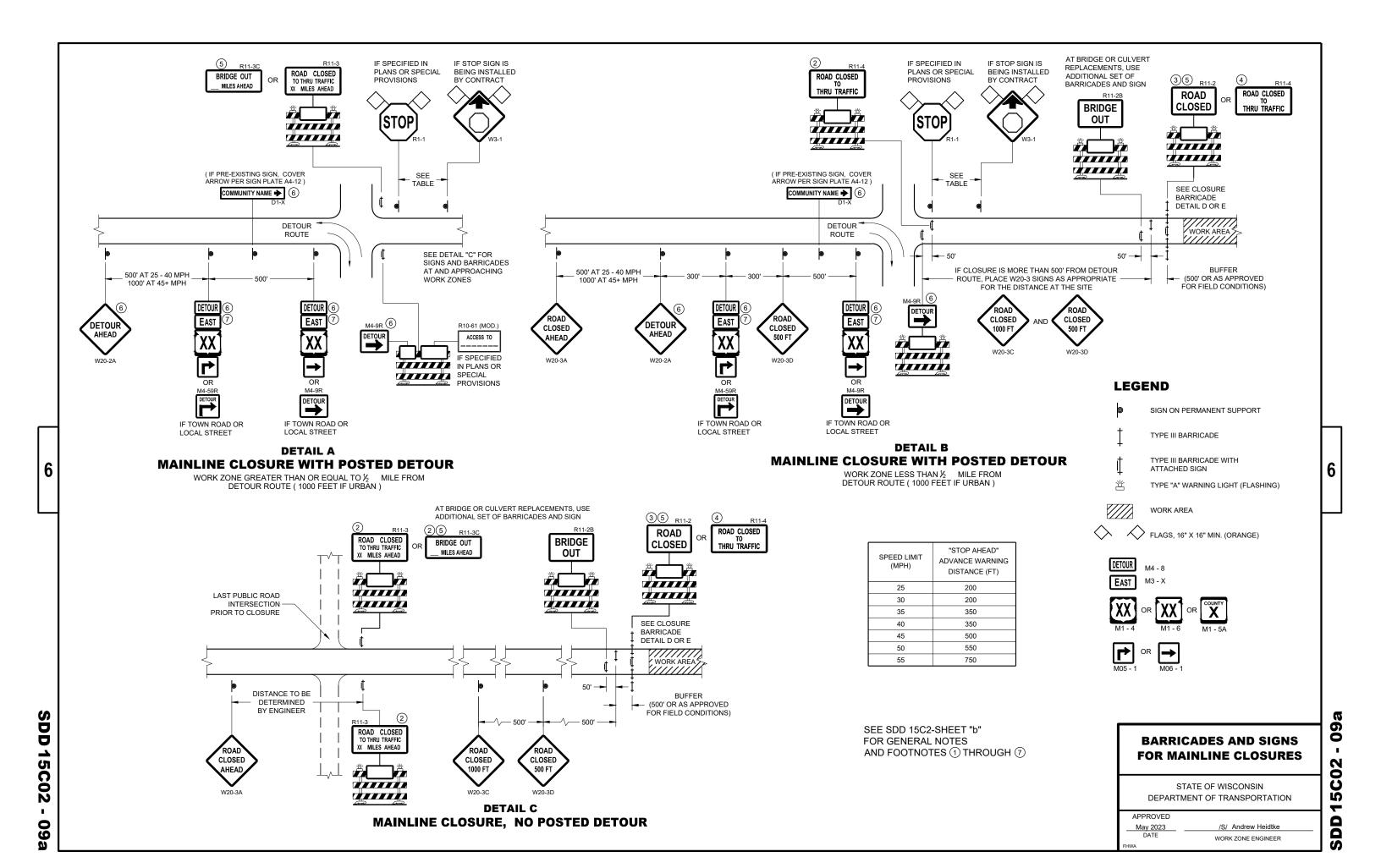
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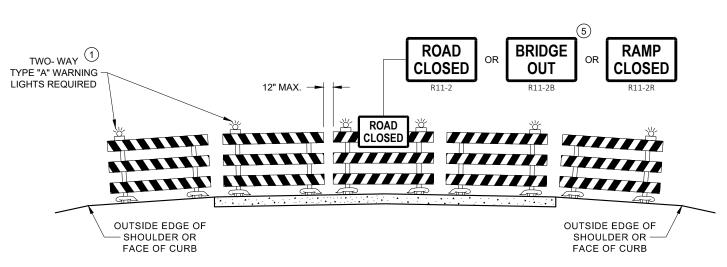
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

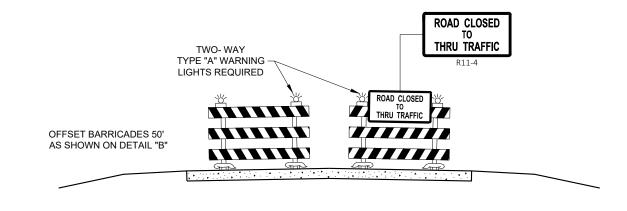
APPROVED

DATE





# DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



# DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

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

# BARRICADES AND SIGNS FOR VARIOUS CLOSURES

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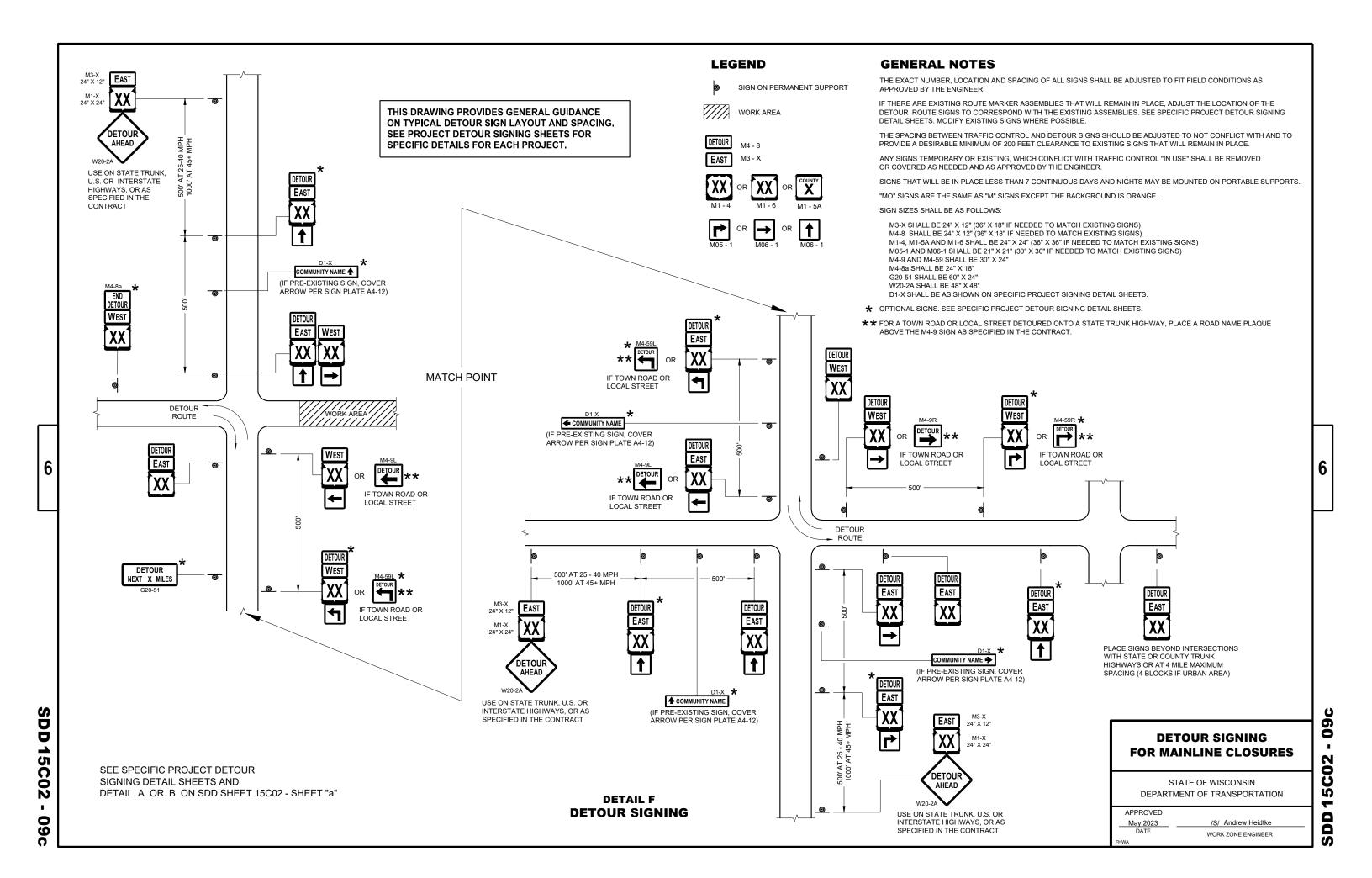
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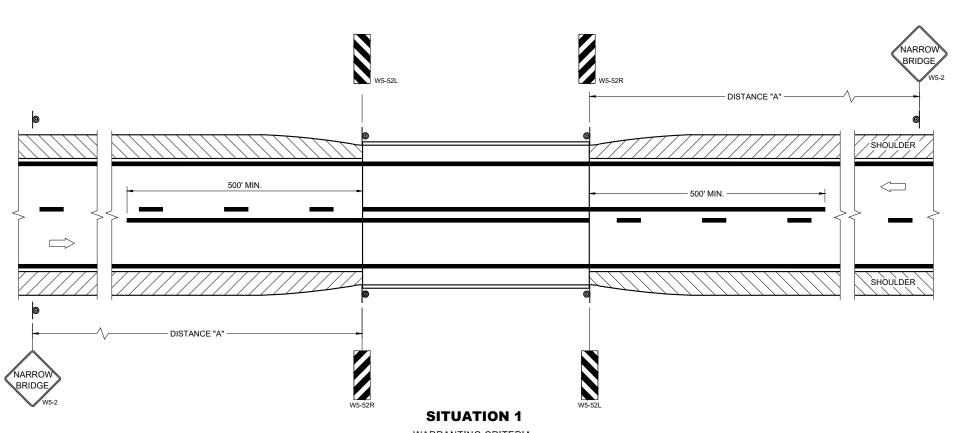
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 APPROVED
 /S/ Andrew Heidtke

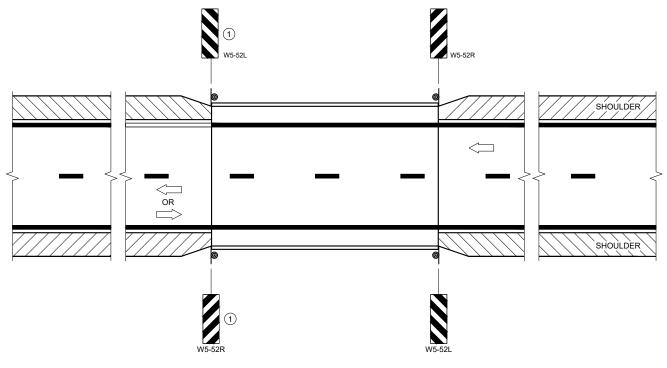
 DATE
 WORK ZONE ENGINEER







WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



#### **SITUATION 2**

SDD

**15C06-12** 

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

#### **GENERAL NOTES**

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

#### **LEGEND**

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

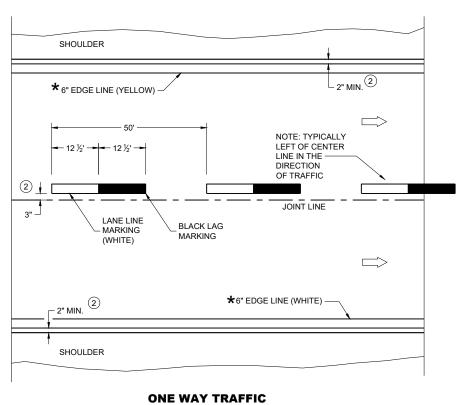
#### DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

## SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer
FHWA	



ONE WAT

#### PERMANENT PAVEMENT MARKING

#### **GENERAL NOTES**

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

#### **LEGEND**

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS** 

APPROVED May 2023 DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

SDD 15C08-23a

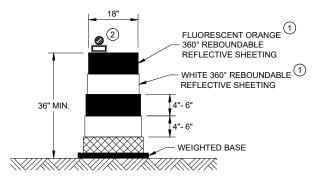
SDD 15C08-23a

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# **SDD 15C11**

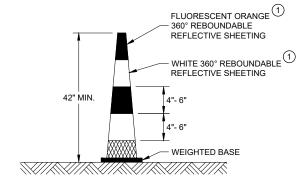
#### **GENERAL NOTES**

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



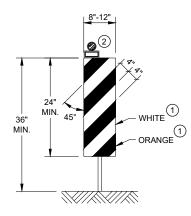
#### DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



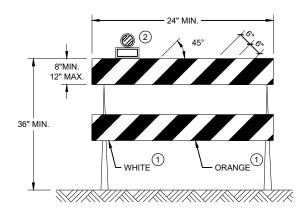
#### **42" CONE**

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



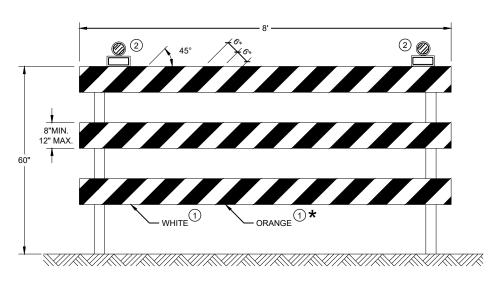
#### **VERTICAL PANEL**

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



#### **TYPE II BARRICADE**

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



#### **TYPE III BARRICADE**

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

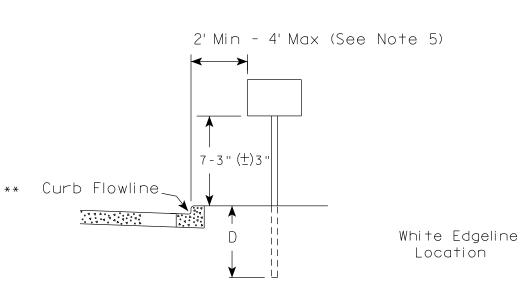
\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

#### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

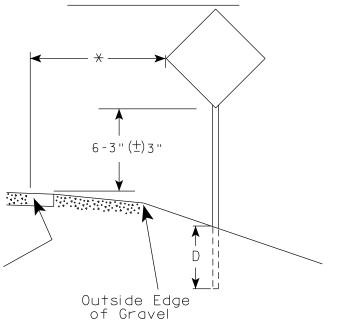
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 50

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	





RURAL AREA (See Note 2)



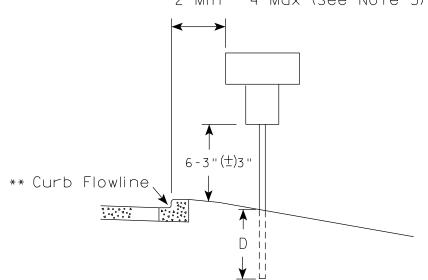
#### GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" ( $\pm$ ) 3".

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

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. \_\_A4-3.23

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PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



#### **ELEVATION VIEW**

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



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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

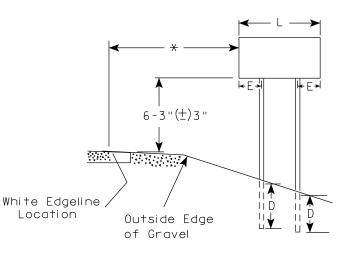
PLOT NAME :

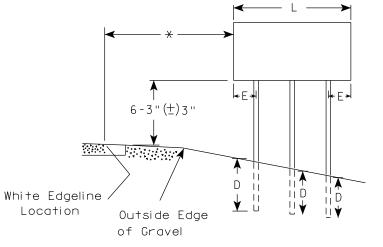
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

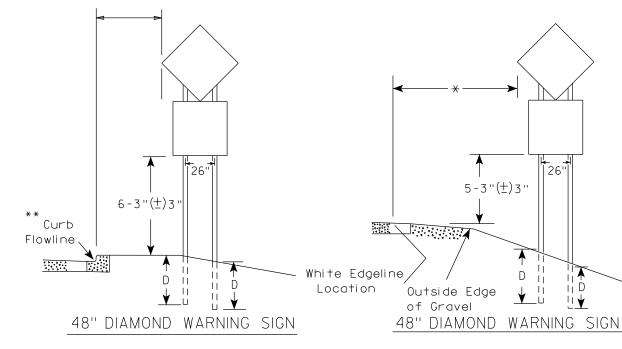
APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
Greater than 108" to 144"	12''

#### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\times \times \times$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

#### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEST NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr\_stdplate\A44.dgn

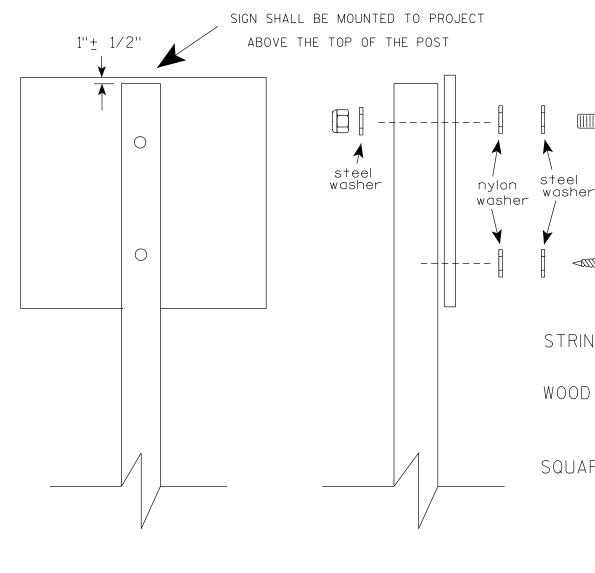
PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

APPROVED

DATE 4/1/2020

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

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



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

DATE 2/05/15

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

For State Traffic Engineer

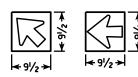


#### SIGN LAYOUT WITH VARIOUS SIZED MESSAGES

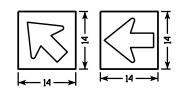




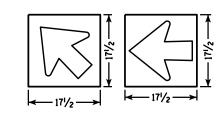












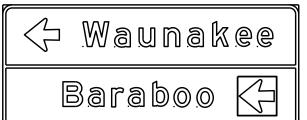
#### **BEFORE**



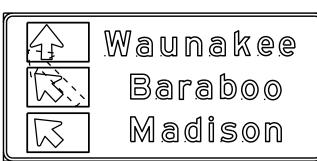
Baraboo =>

#### **AFTER**

8 | 10"/6







#### GENERAL NOTES

- Materials shall conform to Standard Specification Section 637.
   Base Sheet Aluminum 0.040" Thickness
   Sheeting Orange Type F Reflective
   Arrow Black Non-Reflective
- 2. Arrow signs shall be fastened to permanent sign by either aluminum rivets or aluminum self-tapping sheet metal screws.

  There shall be a minmum of 2 fasteners used per arrow sign.
- 3. There shall be a spacer consisting of a 0.08" nylon washer between the back of the arrow sign and the face of the permanent sign.
- 4. Arrows are per standard plate A1-2
- 5. Use separate arrow sign for each destination
- 6. Tilt arrow is always at 45 degrees
- 7. Arrow is centered on arrow sign

Lower Case Copy Size	Standard Width (Single Arrow)	Tilt Arrow	3 Line Tilt Arrow Cover Width	Height
3¾" Series C	8	9 ½	14 1/2	8
4½" Series D & E	9 1/2	10	15	9 ½
6" Series D & E	14	16	20 1/2	14
8" Series E	17 1/2	20 ½	25	17 1/2

DESTINATION DIRECTIONAL ARROW
FOR DETOUR SIGNS

WISCONSIN DEPT OF TRANSPORTATION

Matthew R Lauch

For State Traffic Engineer

PLATE NO. A4-12.2

DATE 10/08/14

SHEET NO:

PROJECT NO:

#### BANDING



SINGLE SIGN





# WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

#### GENERAL NOTES

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

#### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

31/2"

VIEW FROM TOP

#### GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

DATE 4/19/2022 PLATE NO. \_A5-10.3

ATE 4/19/2022 PLATE NO. \_

SHEET NO:

SIGN

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

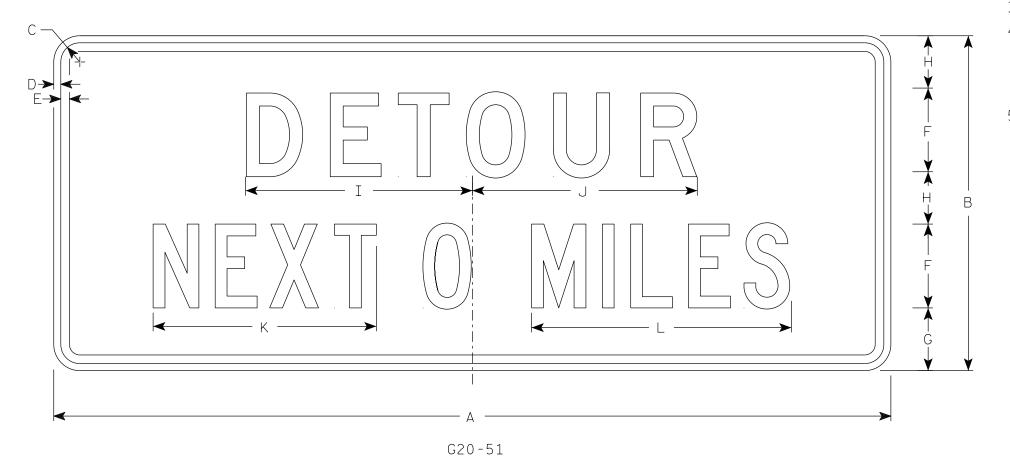
Ε

#### NOTES

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

Background - Orange Message - Black

- 3. Message Series Line 1 is D and Line 2 is C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance



SIZE	А	В	С	D	E	F	G	Н	I J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																										
2	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4 16 1/8	16	18 %															10.0
2M	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4 16 1/8	16	18															10.0
3	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4 16 1/8	16	18															10.0
4	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4 16 1/8	16	18															10.0
5	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4 16 1/8	16	18 5/8															10.0

COUNTY:

STANDARD SIGN G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 1/26/2023 PLATE NO. G20-51.3 SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\G2051.dgn

HWY:

PROJECT NO:

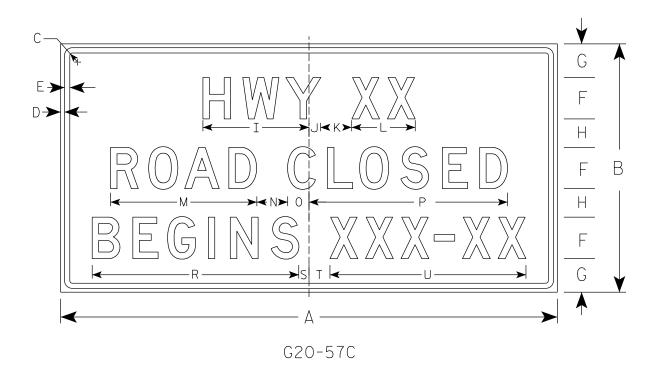
PLOT DATE : 26-JAN 2023 8:53

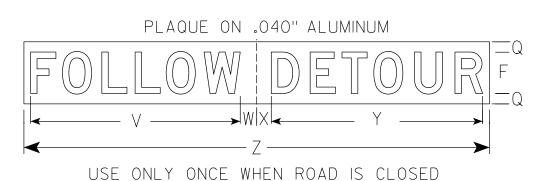
PLOT BY : dotc4c

PLOT NAME :

Background - Orange Message – Black

- 3. Message Series D
- 4. Substitute appropriate numeral and adjust spacing to achieve proper balance.





SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/8	5	2 1/8	29	2	30	1 3/4	3 1/4	28	40 1/2	2	2	29 ¾	66	18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 %	2 1/4	6	12 1/4	28 1/4	6	4 1/8	38 3/8	2	39 7/8	2	4	37 1/8	29 ¾	3 1/8	2 1/8	40 1/8	90	32.0
5																											

COUNTY:

STANDARD SIGN G20-57C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE <u>9/25/19</u>

PLATE NO. G20-57C.1

Ε

PLOT DATE: 25-SEPT-2019 PLOT BY : dotctc

HWY:

PROJECT NO:

#### NOTES

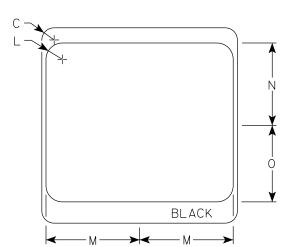
- 1. Sign is Type II Type H Reflective
- 2. Color:

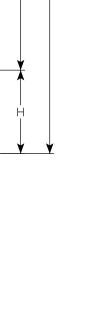
Background - White & Black Message - Black

- 3. Message Series see Note 4
- 4. 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.
- 5. Substitute appropriate letters & optically center to achieve proper balance.

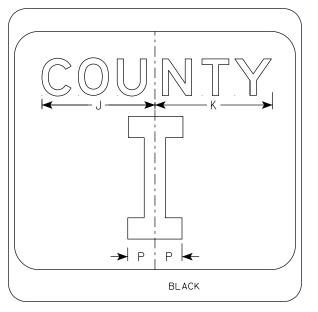


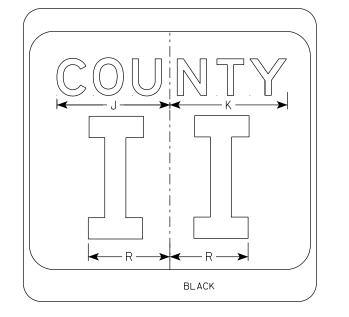


BLACK

HWY:

M1-5A





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

COUNTY:

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

For State Traffic Engineer

DATE 11/8/2022

PLATE NO. <u>M1-5A.9</u>

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M15A.dgn

PROJECT NO:

PLOT DATE: 8-NOV 2022 8:26

PLOT BY : dotc4c

PLOT NAME :

1. All Signs Type II - Type H Reflective

NOTES

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

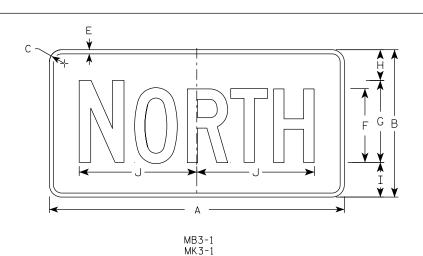
MN3-1 thru MN3-4 Background - Brown

Message - White

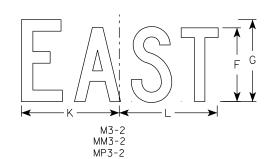
MP3-1 thru MP3-4 Background - White

Message - Blue

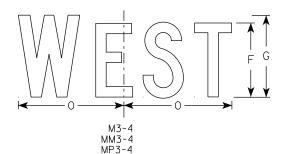
6. Note the first letter of each direction is larger than the remainder of the message.



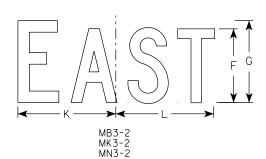
M3-1 MM3-1 MP3-1

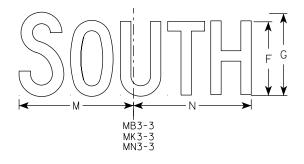


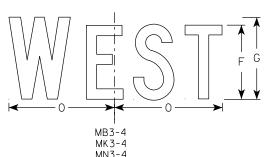
MM3-3



HWY:







SIZE	Α .	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																										
25	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4 7	8 8 3	8 10 1/2	9 3/4	8 3/4												2.00
2N	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4 7	8 8 3	8 10 1/2	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8 12	12	/8 14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8 12	12	/8 14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8 12	12	/8 14	14 1/8	13												4.5

STANDARD SIGNS M3-1 THRU M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 2/8/2023 PLATE NO. <u>M3-1.1</u>5

SHEET NO:

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_M31.dgn COUNTY:

PLOT DATE: 8-FEB 2023 11:00

PLOT NAME :

PLOT BY : dotc4c

- 1. Sign is Type II Type F Reflective
- 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.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
			- / 2	, ,	/ 2		, , ,	, , ,	- / 2																		<u> </u>

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe R Rauch

DATE 2/9/2023 PLATE NO. M4-8.4

SHEET NO:

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\M48.dgn

HWY:

PLOT DATE: 9-FEB 2023 7:38

PLOT BY : dotc4c

PLOT NAME :

1. Sign is Type II - Type F Reflective

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.

C		
		G F V
		H B F G G
<b>—</b>		<b></b>
;	M4 - 8 A	

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4 SHEET NO:

HWY:

PROJECT NO:

PLOT DATE: 9-FEB 2023 8:03

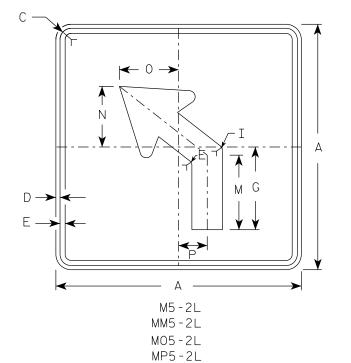
PLOT BY : dotc4c

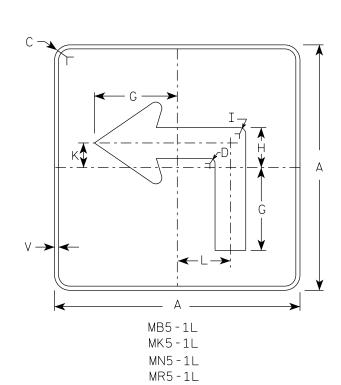
PLOT NAME :

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

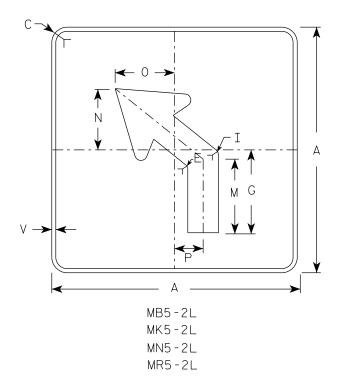
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M48A.dgn

# M5-1L MM5-1L M05-1L MP5-1L





HWY:



#### NOTES

- 1. Signs are Type II Type H reflective except as shown

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.
- 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

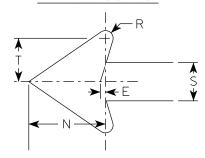
Message - Blue

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.

#### ARROW DETAIL



I																										
SIZE	Α	В	С	D	Ε	F	G	Н	Ι	J	K	L	М	N	0	Р	Q	R	S	Т	V	W	Х	Y	Z	Area sq. ft.
1																										
25	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1/2					3.06
3	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25
4	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25
5	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Forstate Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_M51.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 10:05

PLOT BY : dotc4c

PLOT NAME :

- 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. 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

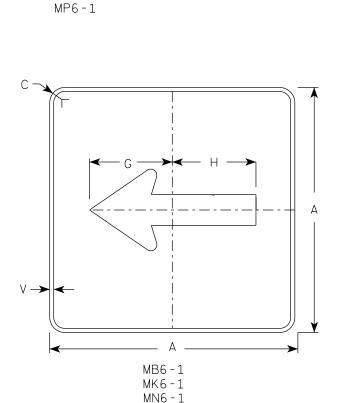
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



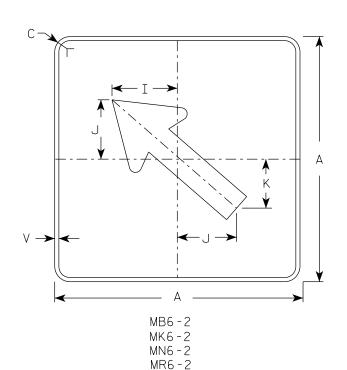
MR6-1

HWY:

M6 - 1

MM6 - 1

M06-1



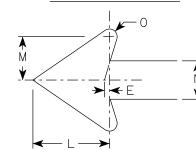
M6-2

MM6 - 2

MO6-2

MP6-2

ARROW DETAIL



SIZE	. Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	1 71		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30	)	1 1/8	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							1/2					6.25
4	30	)	1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30	)	1 1/8	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							1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16 SHEET NO:

Ε

PLOT BY : dotc4c PLOT NAME :

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

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\_M61.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 1:30



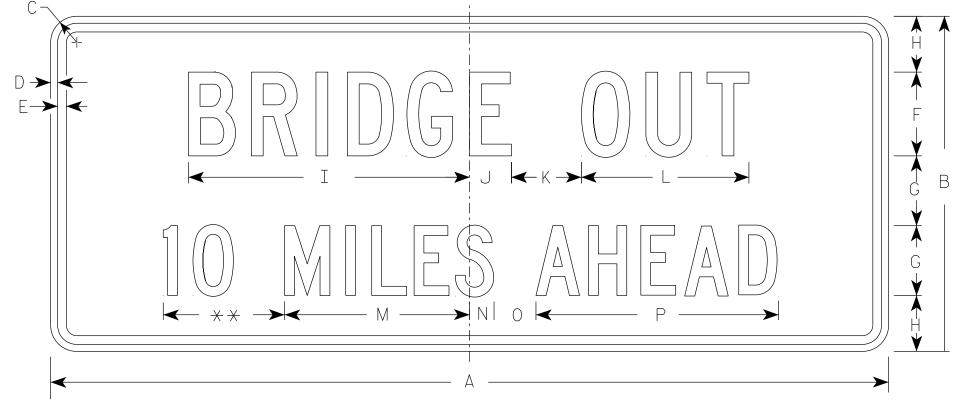
- 1. Sign is Type II Type H Reflective
- 2. Color:

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



R11-3C

\*\* See Note 5

SIZE Α В D Q R U 36 15 1 1/2 1/25/8 2 1/2 13 1/4 2 1/4 3 1 1/2 2 10 3/4 7 1/8 3.75 1 1/8 5/8 13 1/4 1 3/4  $17 \frac{3}{8}$ 11 1/8 10.0 60 24 1/2 5 20 1/8 3 5 12 2M 1 1/8 5/8 60 24 13 1/4 1 3/4  $17 \frac{3}{8}$ 1/2 20 1/8 3 5 12  $11 \frac{7}{8}$ 10.0 3 4

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Lauch
For State Traffic Engineer

DATE <u>2/5/24</u>

PLATE NO. R11-3C.4

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R113C.dgn

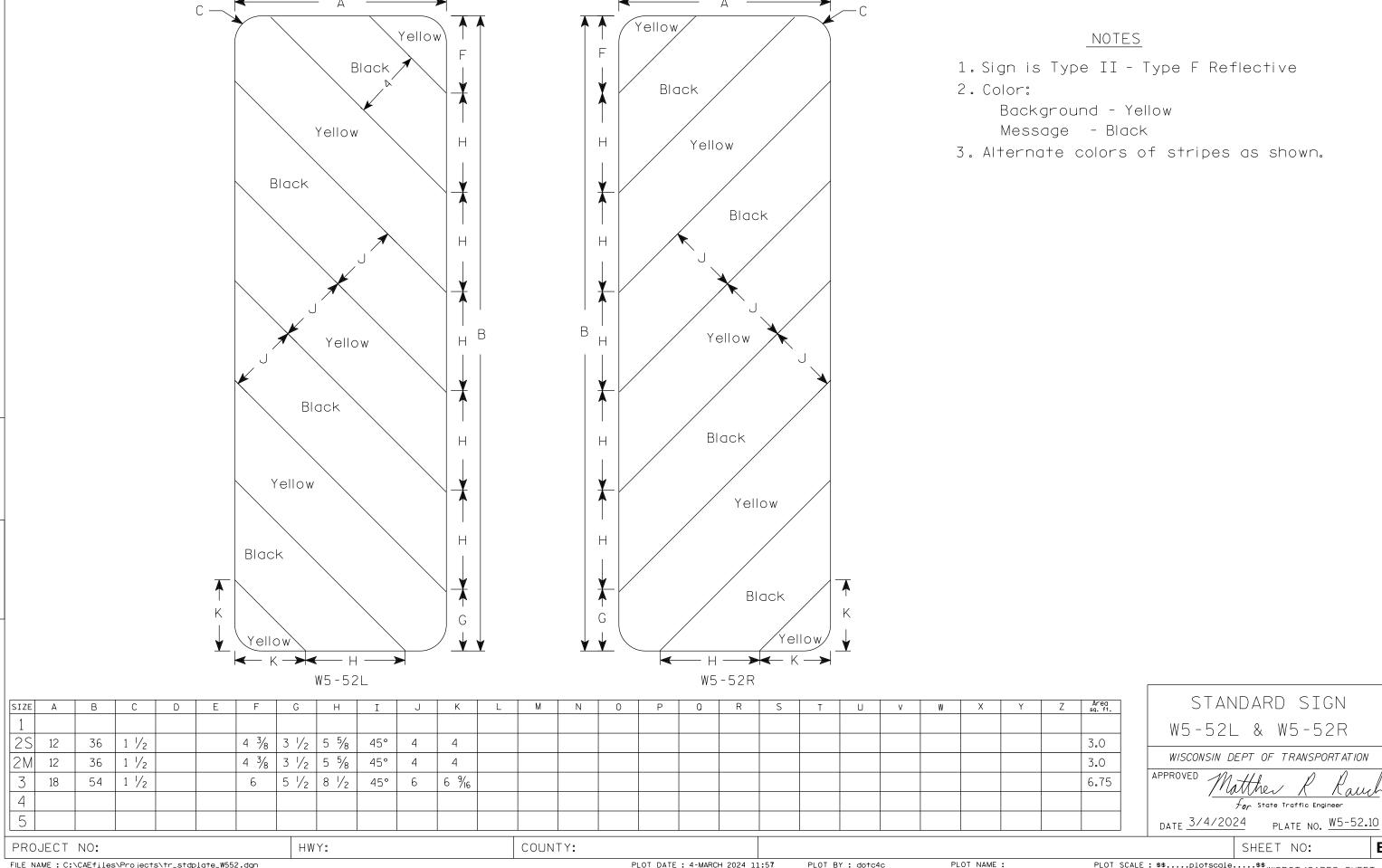
PROJECT NO:

PLOT DATE : 5-FEB 2024 2:52

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

Ε



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_W552.dgn

PLOT DATE: 4-MARCH 2024 11:57

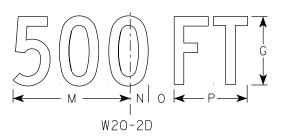
PLOT BY : dotc4c

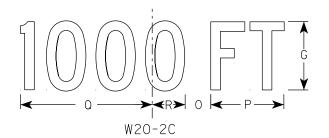


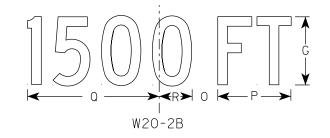
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

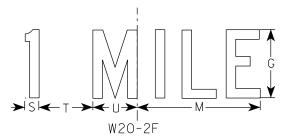
- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D. Line 2 is Series D for AHEAD and Series C for all other distances.











SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 5/8	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		3	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 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
2M	48		3	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 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
3	48		3	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 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
4	48		3	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 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
5	48		3	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 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0

COUNTY:

W20-2A

HWY:

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

WISCONSIN DEPT OF TRANSPORTATION

DATE 1/10/2024 PLATE NO. W20-2.7

SHEET NO:

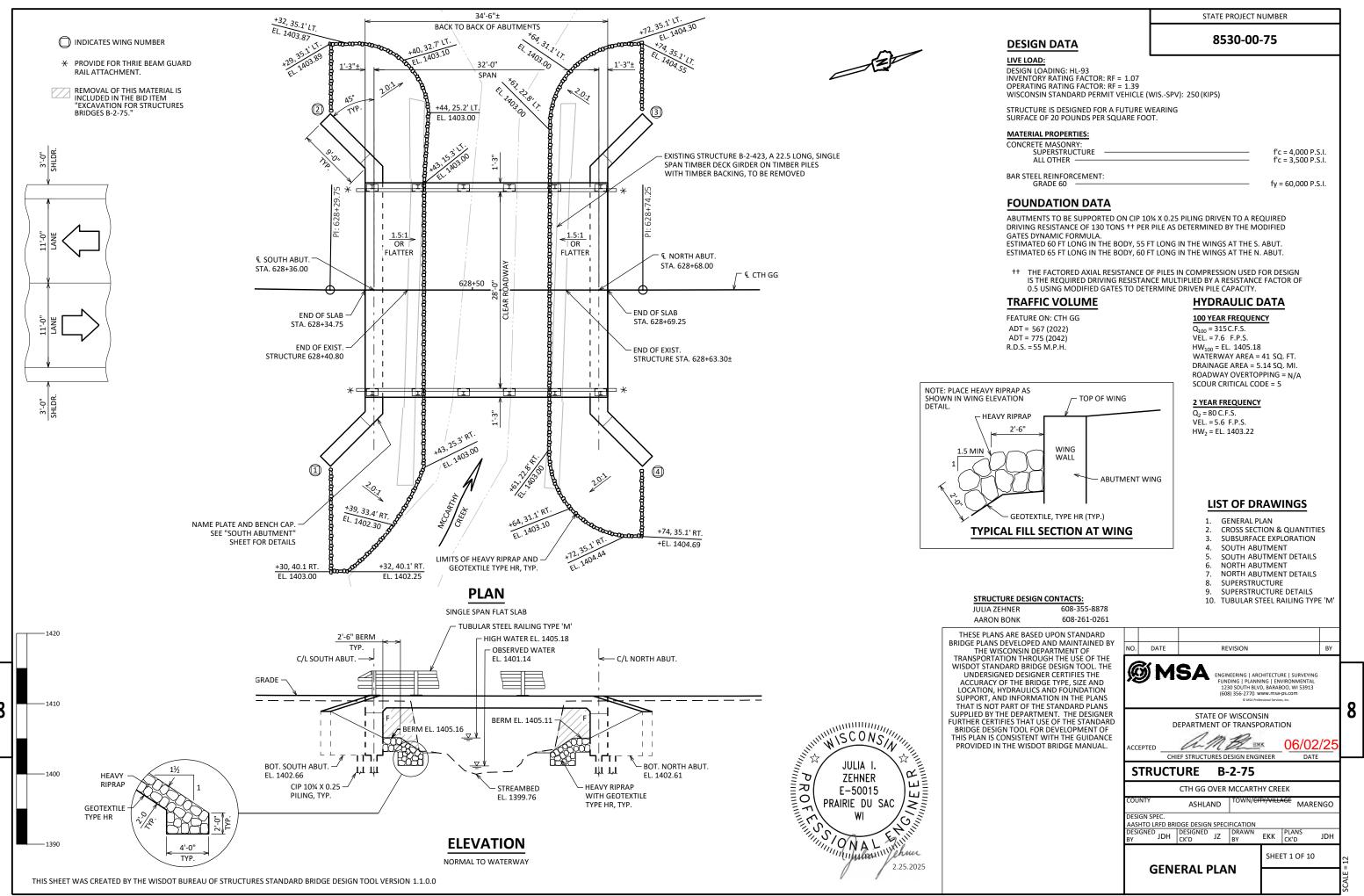
FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\W202.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 11:36

PLOT BY : dotc4c

PLOT NAME :



#### **GENERAL NOTES**

8530-00-75

DRAWINGS SHALL NOT BE SCALED.

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

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

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-2-75" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

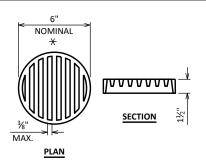
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

#### **BENCH MARK**

NO.	STATION	DESCRIPTION	ELEV.
20	628+22.53	REBAR, 36.92' RT	1404.17
40	628+26.98	REBAR, 31.14' LT.	1405.00
21	628+63.48	MAG NAIL ON POST, 15.27' RT	1413.00



#### **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.

& QUANTITIES

NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-2-75 EKK CK'D SHEET 2 **CROSS SECTION** 

CLEAR BETWEEN BARRIERS 3'-0' 11'-0" 11'-0' 3'-0" SHLD. LANE SHLD. TUBULAR STEEL RAILING TYPE 'M' POINT REFERRED TO ON - C/L CTH GG PROFILE GRADE LINE INCLUDE FLASHING STAINLESS STEEL AT BOTH EDGES OF SLAB. SEE SHEET 9 FOR DETAILS. TOP OF BERM

30'-6" OUT TO OUT OF SUPERSTRUCTURE

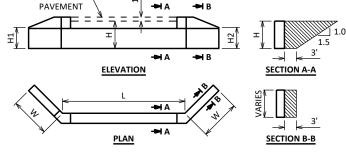
28'-0"

1'-3"

BOTTOM OF ABUTMENT

#### **CROSS SECTION THRU ROADWAY**

LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)



1'-3"

#### ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = WING 1 HEIGHT AT TIP (FT)
- = WING 2 HEIGHT AT TIP (FT)
- = WING LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)
- $V_{CY} = V_{CF}(EF)/27$

#### PROFILE GRADE LINE

C/L CTH GG

300'-0"

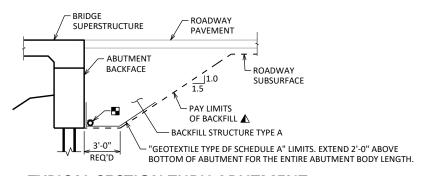
#### TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	SOUTH ABUT.	NORTH ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS B-2-423	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-2-75	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		186	186	372
502.0100	CONCRETE MASONRY BRIDGES	CY	60	31	31	122
502.3200	PROTECTIVE SURFACE TREATMENT	SY	133	16	16	165
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,280	2,280	4,560
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	13,260	1,520	1,520	16,300
513.4061	RAILING TUBULAR TYPE M	LF	74			74
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		6	6	12
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF		410	445	855
606.0300	RIPRAP HEAVY	CY		52	46	98
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		73	73	146
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		46	46	92
645.0120	GEOTEXTILE TYPE HR	SY		103	92	195
SPV.0090.01	FLASHING STAINLESS STEEL	LF	59			59
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"
			•			

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.1.0.0

PROTECTIVE SURFACE TREATMENT LIMITS

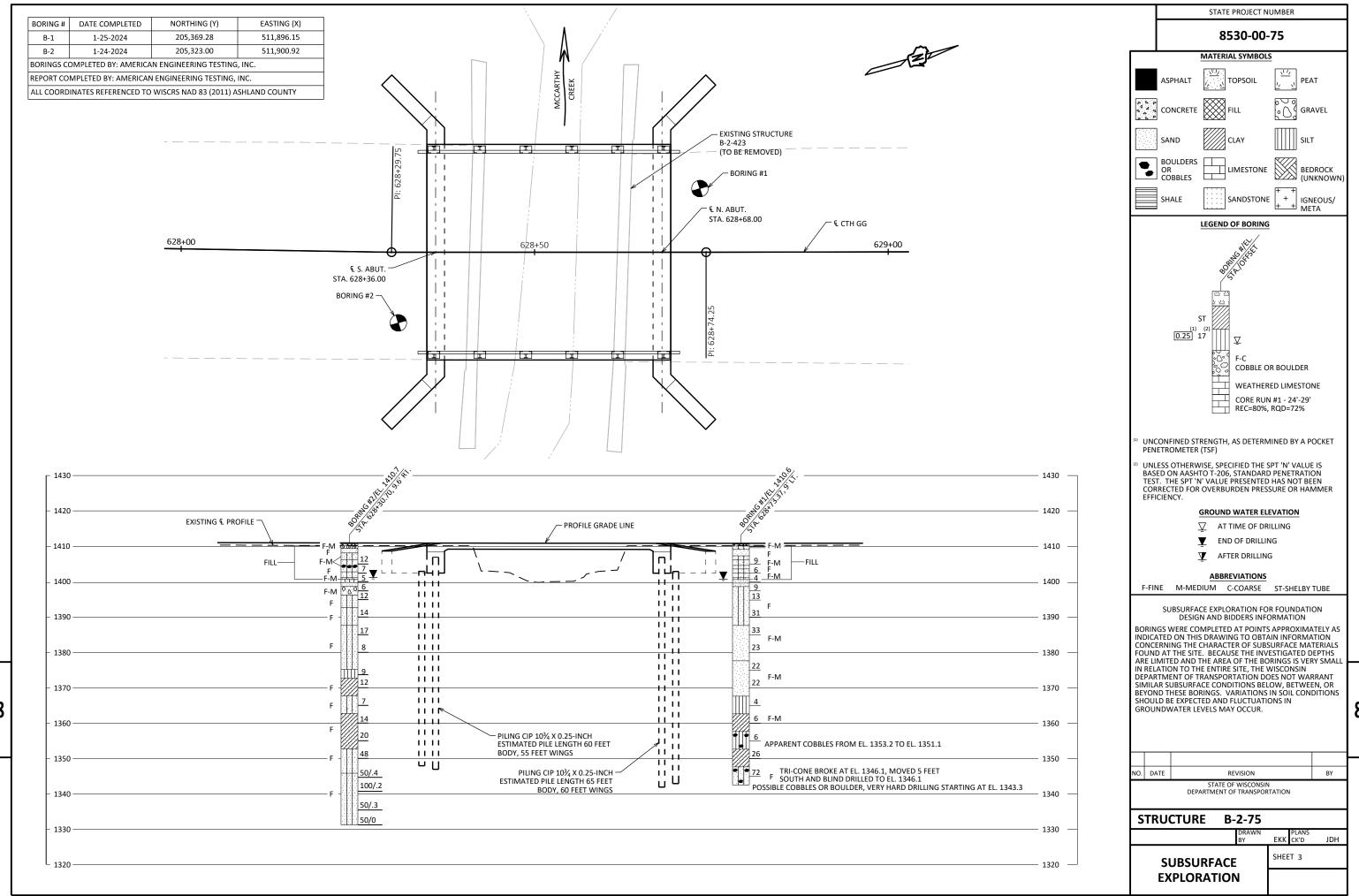
#### **PROTECTIVE SURFACE** TREATMENT DETAILS

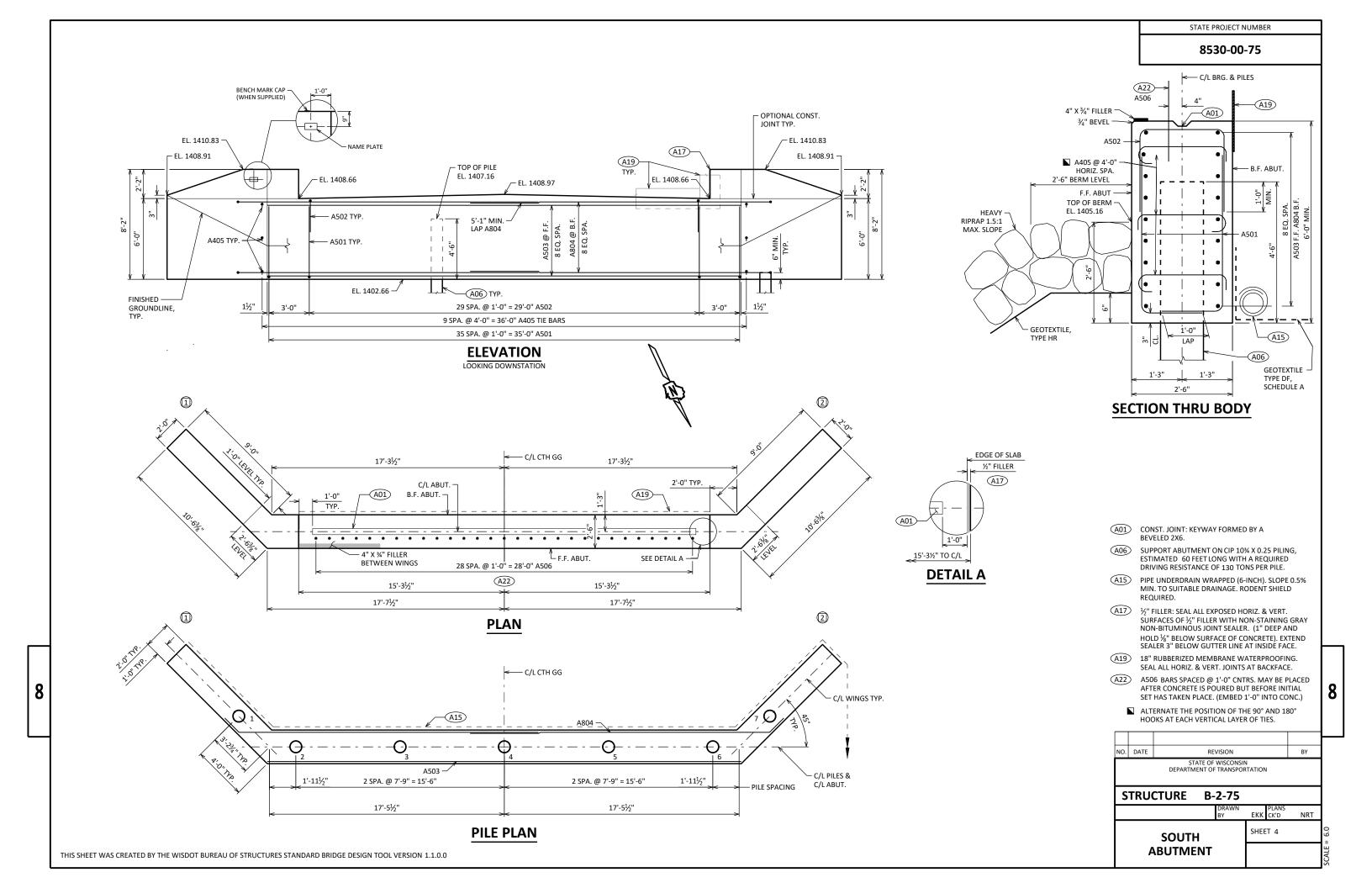


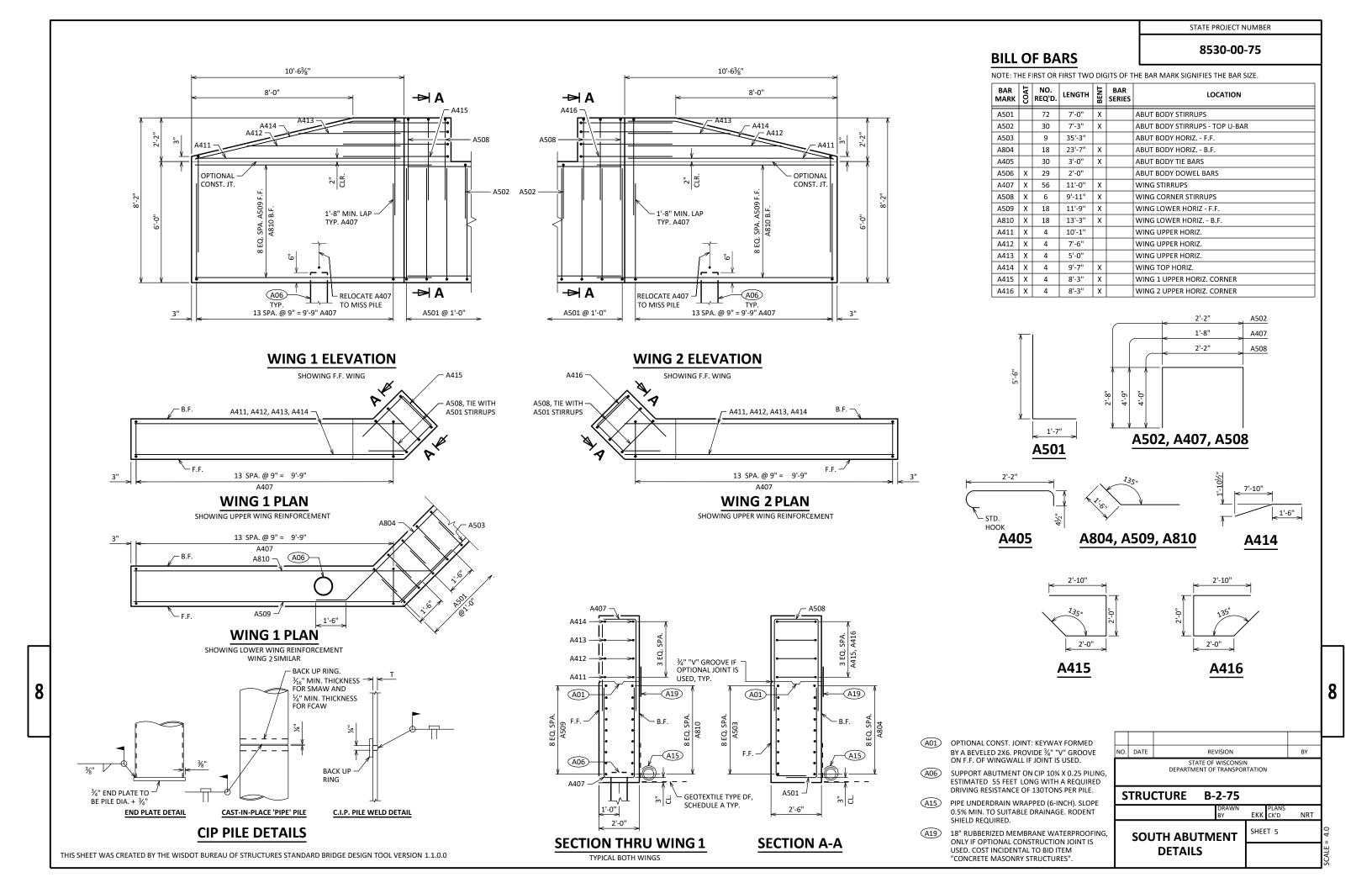
#### TYPICAL SECTION THRU ABUTMENT

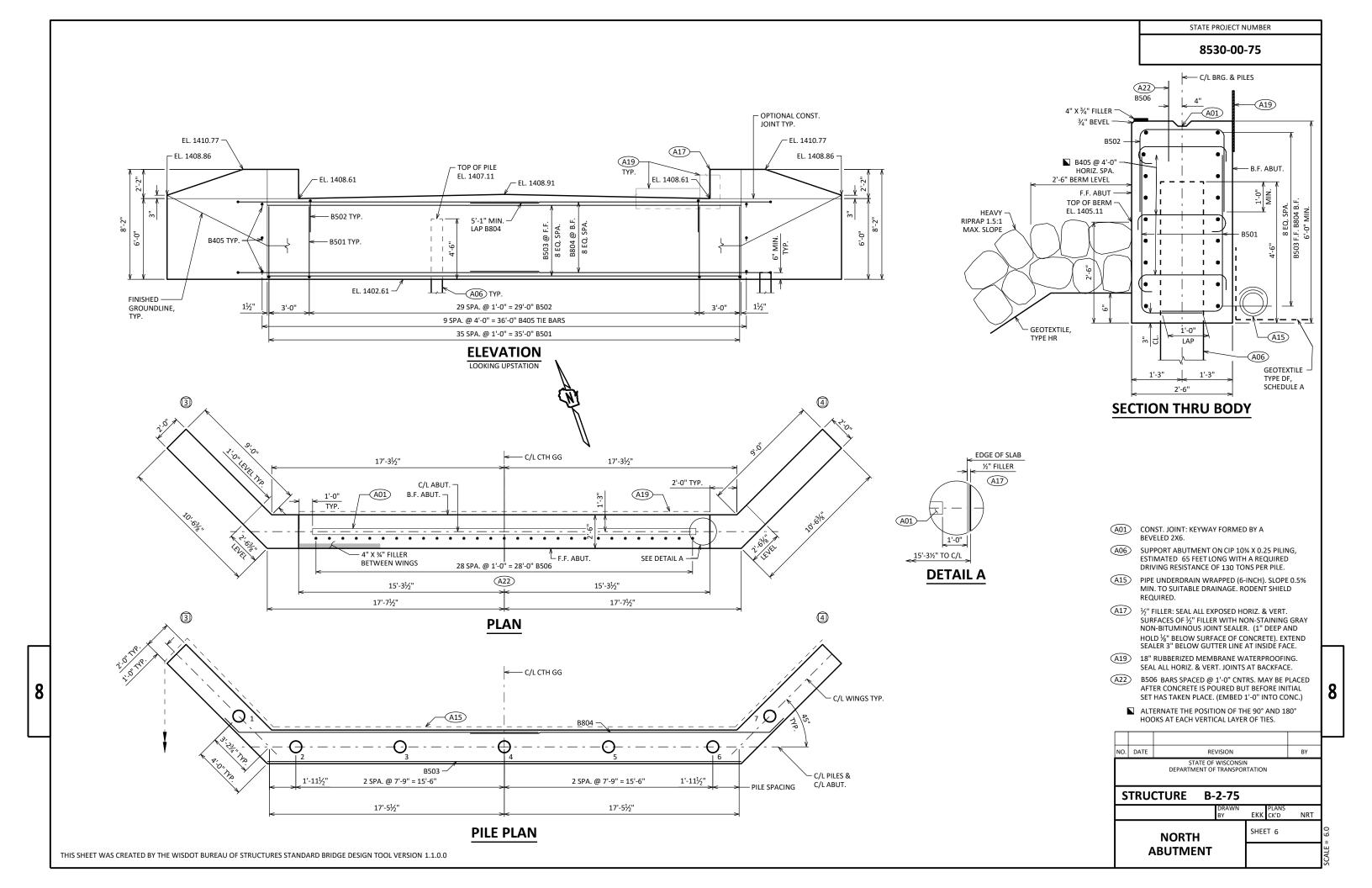
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

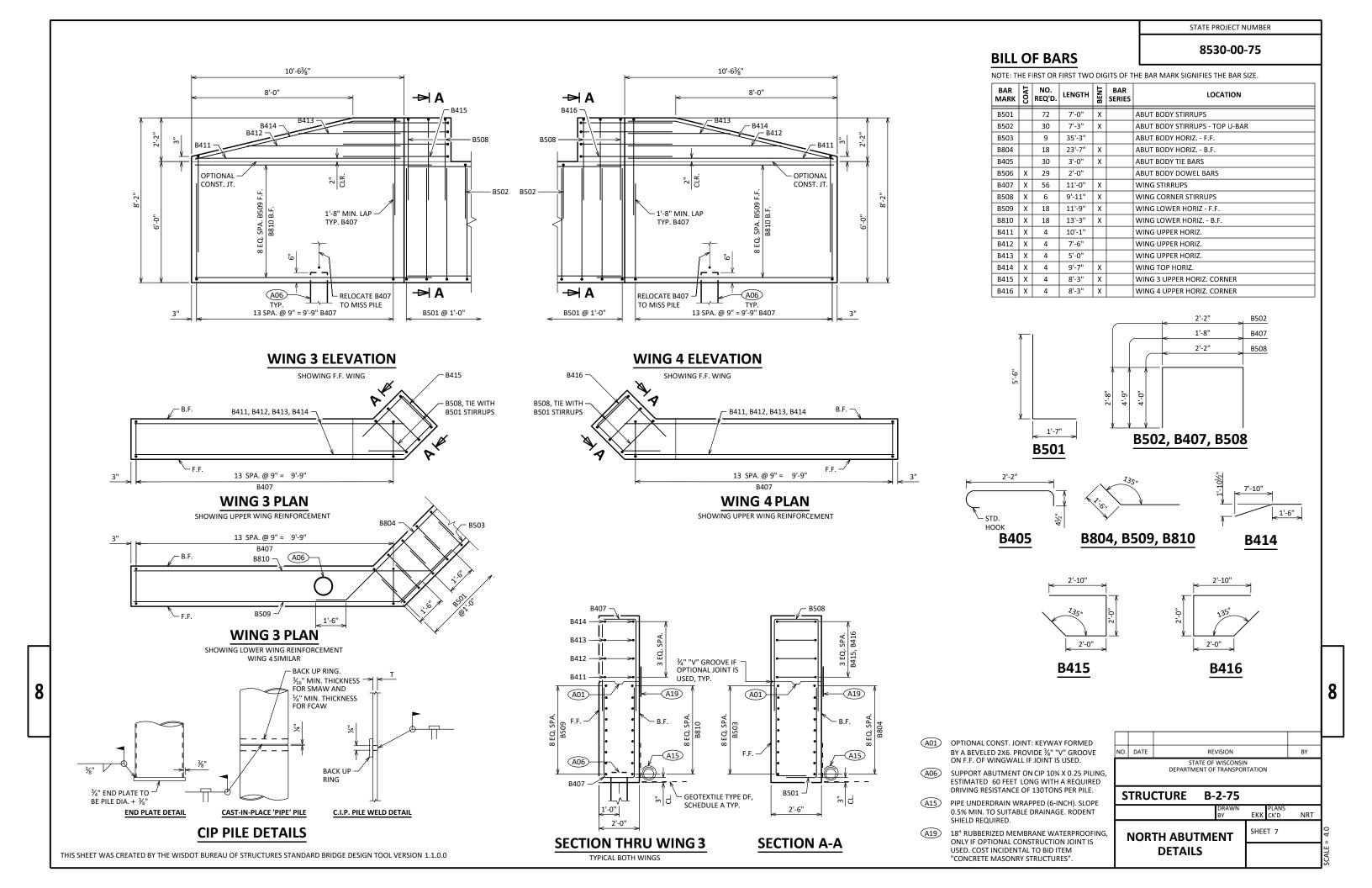
G:\07\07516\07516013\CADD\SheetsPlan\Structures\02-QUANTITIES.dwg

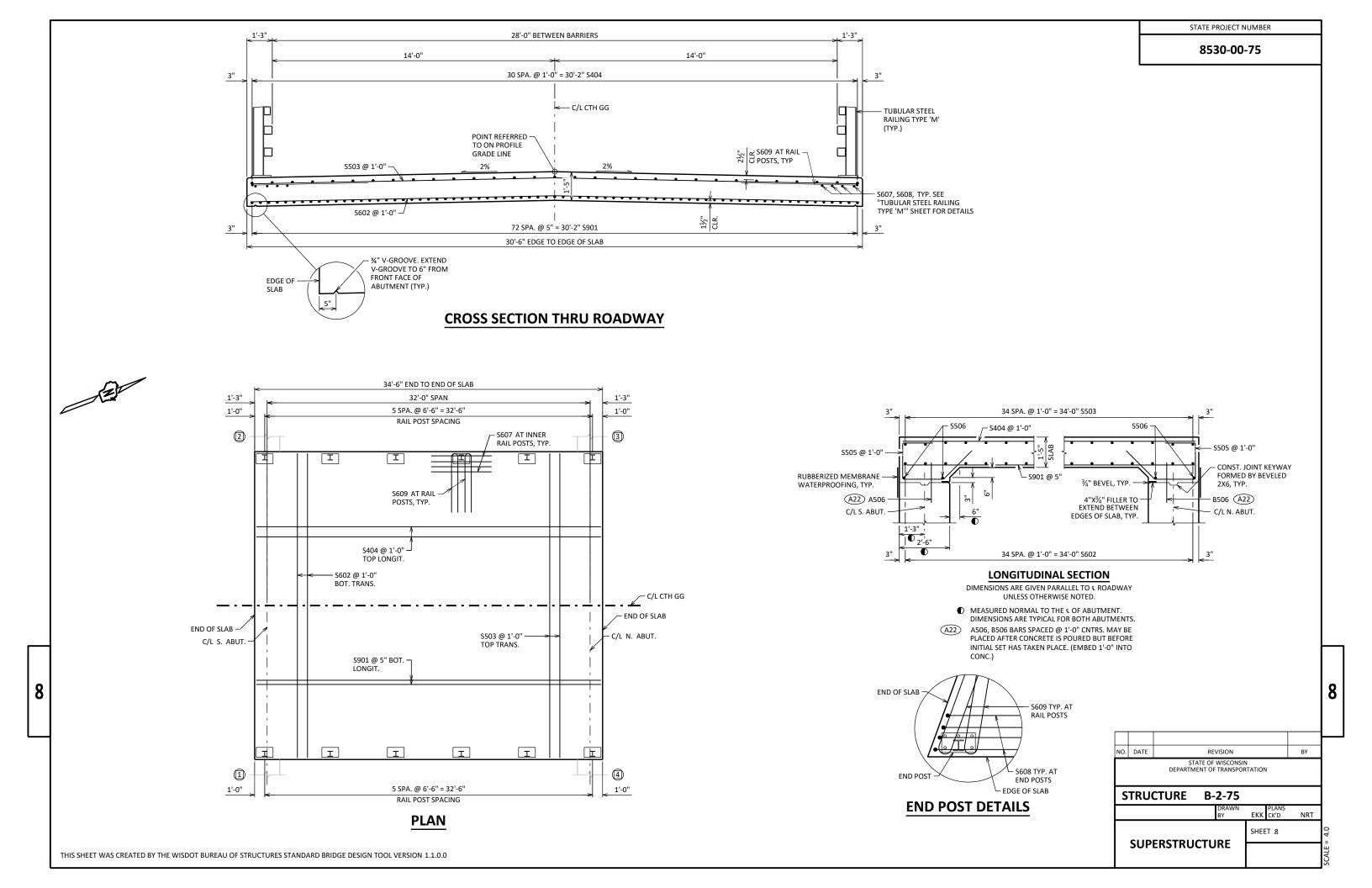












- SLAB THICKNESS

## **CAMBER AND SLAB THICKNESS DIAGRAM**

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

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

TOP OF SLAB ELEVATION AT FINAL GRADE

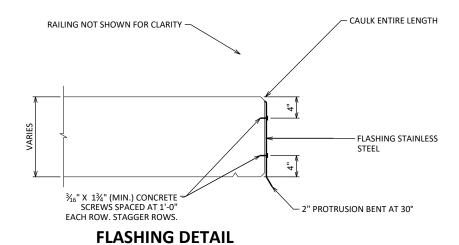
SLAB THICKNESS

PLUS

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

#### **TOP OF SLAB ELEVATIONS**

LOCATION	C/L BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. N. ABUT.
E. EDGE OF DECK	1410.83	1410.82	1410.81	1410.80	1410.80	1410.79	1410.79	1410.78	1410.78	1410.78	1410.77
CROWN	1411.14	1411.13	1411.12	1411.11	1411.10	1411.10	1411.09	1411.09	1411.08	1411.08	1411.08
W. EDGE OF DECK	1410.83	1410.82	1410.81	1410.80	1410.80	1410.79	1410.79	1410.78	1410.78	1410.78	1410.77



#### **BILL OF BARS**

2'-0" **S505** 

**S609** 

**S608** 

8530-00-75

STATE PROJECT NUMBER

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S901	Х	73	34'-2"			SLAB BOTTOM LONGITUDINAL
S602	Х	35	30'-2"			SLAB BOTTOM TRANSVERSE
S503	Х	35	30'-2"			SLAB TOP TRANSVERSE
S404	Х	31	34'-2"			SLAB TOP LONGITUDINAL
S505	Х	62	7'-0"	Х		ABUTMENT DIAPHRAGM STIRRUPS
S506	Х	4	30'-2"			ABUTMENT DIAPHRAGM LONGITUDINAL
S607	Х	32	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS
S609	Х	24	11'-3"	Х		SLAB TOP HOOKS UNDER RAIL POSTS

BAR MARK	СОАТ	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S901	Х	73	34'-2"			SLAB BOTTOM LONGITUDINAL
S602	Х	35	30'-2"			SLAB BOTTOM TRANSVERSE
S503	Х	35	30'-2"			SLAB TOP TRANSVERSE
S404	Х	31	34'-2"			SLAB TOP LONGITUDINAL
S505	Х	62	7'-0"	Х		ABUTMENT DIAPHRAGM STIRRUPS
S506	Х	4	30'-2"			ABUTMENT DIAPHRAGM LONGITUDINAL
S607	Х	32	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS
S609	Х	24	11'-3"	Х		SLAB TOP HOOKS UNDER RAIL POSTS

## **SURVEY TOP OF SLAB ELEVATIONS**

	LOCATION	S. ABUTMENT	5/10 PT.	N. ABUTMENT
Ī	E. GUTTER			
	CROWN			
	W. GUTTER			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, THE C/L OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

#### **NOTES**

FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

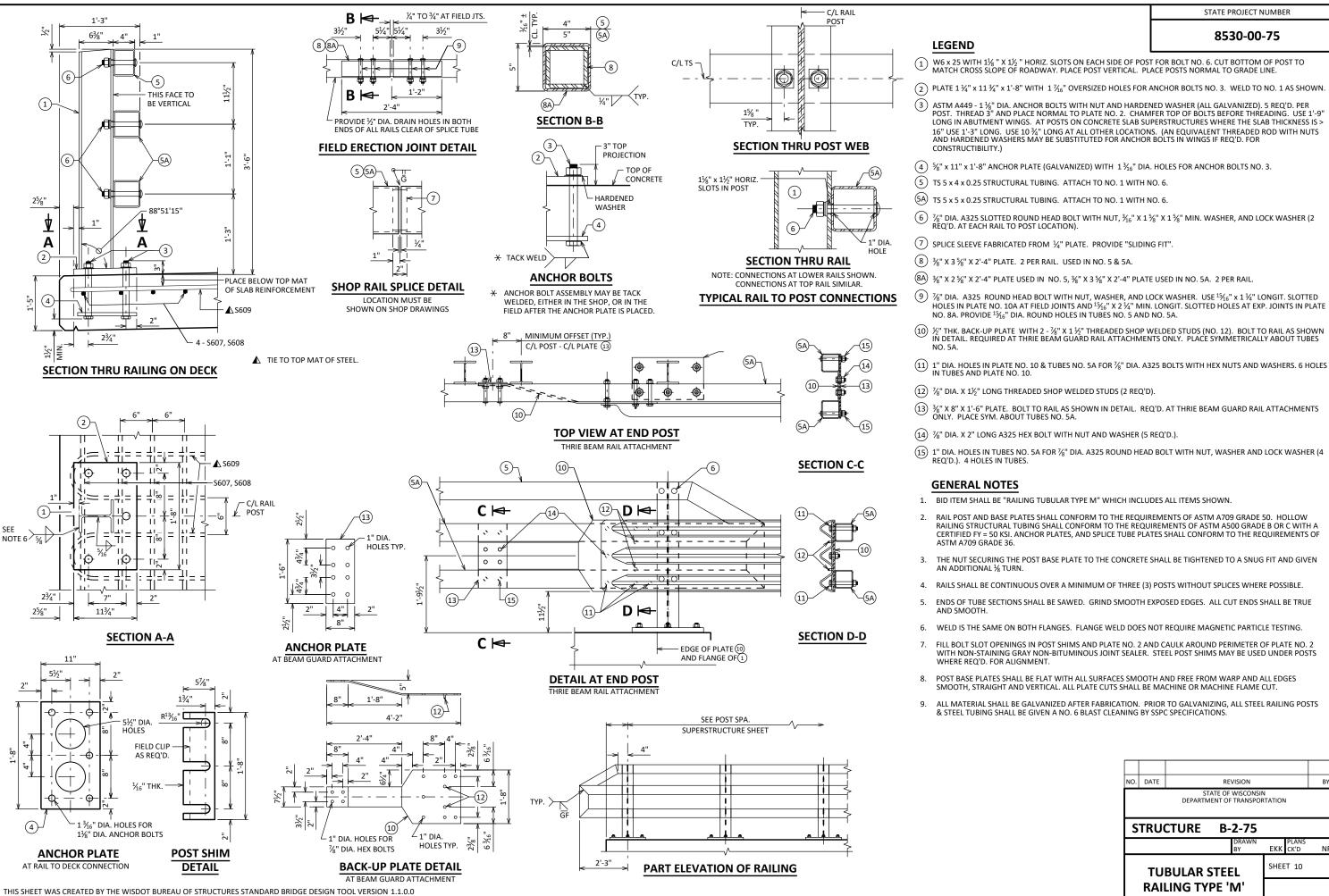
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

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NO.	BY						
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			DRAWN BY	EKK	PLANS CK'D	NRT	
	SUP	ERSTRUCTU	SHEE	T 9		7	
		DETAILS				- 1 V	

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.1.0.0

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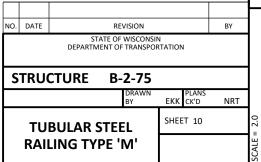


8530-00-75

- 2 PLATE 1  $\frac{1}{4}$ " x 11  $\frac{3}{4}$ " x 1'-8" WITH 1  $\frac{7}{16}$ " OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- (3) ASTM A449 1 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'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 10  $\frac{3}{4}$ " LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR

- 9 %" Dia. A325 Round Head Bolt with nut, washer, and lock washer. Use  $^{1}\%_{6}$ " x 1 %" longit. Slotted Holes in Plate No. 10a at field joints and  $^{1}\%_{6}$ " x 2 %" Min. Longit. Slotted Holes at exp. Joints in Plate
- $^{(1)}$  ½" THK. BACK-UP PLATE WITH 2  $^{\prime}$ 2" X 1 ½" 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

- 15 1" DIA. HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4
- 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
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS
- SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.



CTH GG SOUTH

				AREA (SF)		ı	NCREMENTAL VOL (CY) (	UNADJU	STED)	CUMULATIVE VOL (CY)					
STATION	REAL STATION	DISTANCE	СИТ	SALVAGED/UNUSABLE	EIII	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	сит	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
			601	PAVEMENT MATERIAL	1122	WIANSII EAC					1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
626+00.01	62600.01	0.00	8.01	11.60	0.28	0.00	0	0	0	0	0	0	0	0	0
626+18.11	62618.11	18.10	73.49	11.60	14.90	0.00	27	8	5	0	27	6	0	0	13
626+50.00	62650.00	31.89	69.41	11.60	24.44	0.00	84	14	23	0	111	35	0	0	54
626+69.77	62669.77	19.77	86.29	11.60	28.05	0.00	57	8	19	0	168	59	0	0	79
626+70.21	62670.21	0.44	86.60	11.60	28.07	0.00	1	0	0	0	169	59	0	0	80
626+94.75	62694.75	24.54	77.07	11.60	28.41	0.00	74	11	26	0	243	91	0	0	111
626+95.19	62695.19	0.44	76.70	11.60	28.57	0.00	1	0	0	0	244	91	0	0	112
627+00.01	62700.01	4.82	68.70	11.60	30.49	0.00	13	2	5	0	257	98	0	0	117
627+19.74	62719.74	19.73	38.88	11.60	44.96	0.00	39	8	28	0	296	133	0	0	113
627+20.17	62720.17	0.43	38.77	11.60	45.56	0.00	1	0	1	0	297	134	0	0	112
627+50.00	62750.00	29.83	33.06	11.60	54.55	0.00	40	13	55	0	337	203	0	0	71
628+00.00	62800.00	50.00	23.60	11.60	32.45	0.00	52	21	81	0	389	304	0	0	0
628+25.00	62825.00	25.00	19.43	11.60	33.55	0.00	20	11	31	0	409	343	0	0	-30

CTH GG NORTH

									AREA (SF)			J	NCREMENTAL VOL (CY)	UNADJU	STED)			CUMULATIVE V	OL (CY)	
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT 1.00	EXPANDED FILL	EXPANDED MARSH BACKFILL 1.00	REDUCED MARSH IN FILL 1.00	MASS ORDINATE					
				77772772777			NOTE 1	NOTE 2	NOTE 3		NOTE 1	1.23	NOTE 4	NOTE 6	NOTE 8					
628+80.00	62880.00	0.00	22.91	11.50	29.63	0.00	0	0	0	0	0	0	0	0	0					
629+00.00	62900.00	20.00	26.75	11.50	15.25	0.00	18	9	17	0	18	21	0	0	-12					
629+50.00	62950.00	50.00	34.53	11.50	20.73	0.00	57	21	33	0	75	63	0	0	-18					
629+84.02	62984.02	34.02	42.67	11.50	8.06	0.00	49	14	18	0	124	85	0	0	-5					
629+84.07	62984.07	0.05	42.69	11.50	8.06	0.00	0	0	0	0	124	85	0	0	-5					
630+00.00	63000.00	15.93	46.65	11.50	12.11	0.00	26	7	6	0	150	93	0	0	7					
630+09.00	63009.00	9.00	47.09	11.50	18.57	0.00	16	4	5	0	166	99	0	0	12					
630+09.06	63009.06	0.06	47.10	11.50	18.62	0.00	0	0	0	0	166	99	0	0	12					
630+33.98	63033.98	24.92	47.54	11.50	46.06	0.00	44	11	30	0	210	136	0	0	8					
630+34.04	63034.04	0.06	47.53	11.50	46.11	0.00	0	0	0	0	210	136	0	0	8					
630+50.00	63050.00	15.96	45.97	11.50	46.05	0.00	28	7	27	0	238	170	0	0	-5					
630+84.61	63084.61	34.61	75.39	11.50	21.01	0.00	78	15	43	0	316	224	0	0	4					
630+99.99	63099.99	15.38	7.31	11.50	0.02	0.00	24	7	6	0	340	231	0	0	14					

#### NOTE: EXISTING PAVEMENT IS NOT TO BE USED IN FILL AREAS

NOTES:									
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PA	AVEMENT MATERIAL							
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTI	DSS SECTIONS							
3-FILL	DOES NOT INCLUDE UNUSABLE PAVEMEN	OT INCLUDE UNUSABLE PAVEMENT EXC VOLUME							
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BA	BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)							
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN	EDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL							
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH	TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FA							
8530-00-75 HWY: CTH GG		COUNTY: ASHLAND	EARTHWORK DATA	SHEET					

FILE NAME :

PLOT NAME:

PLOT SCALE : 1" = 1"

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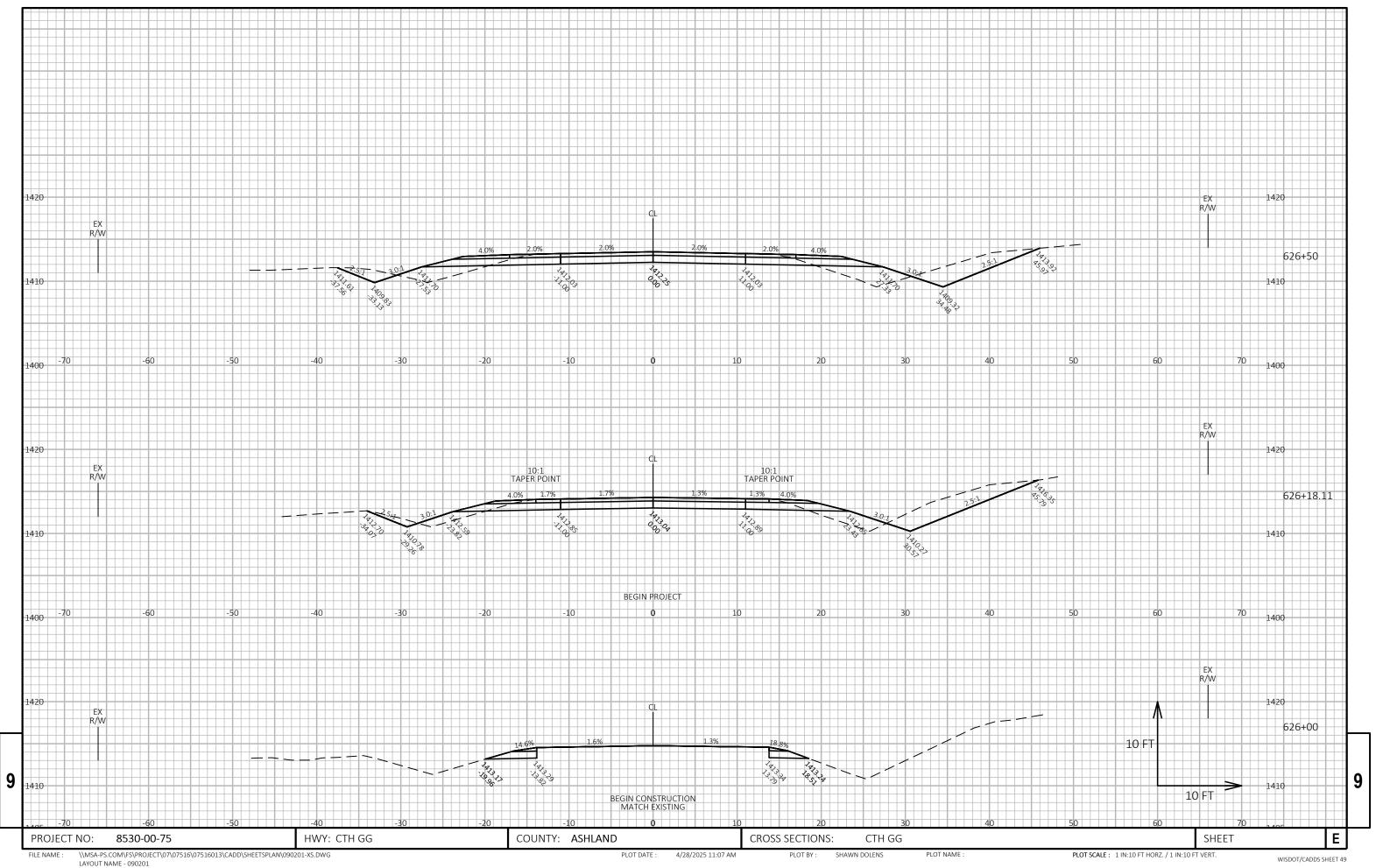
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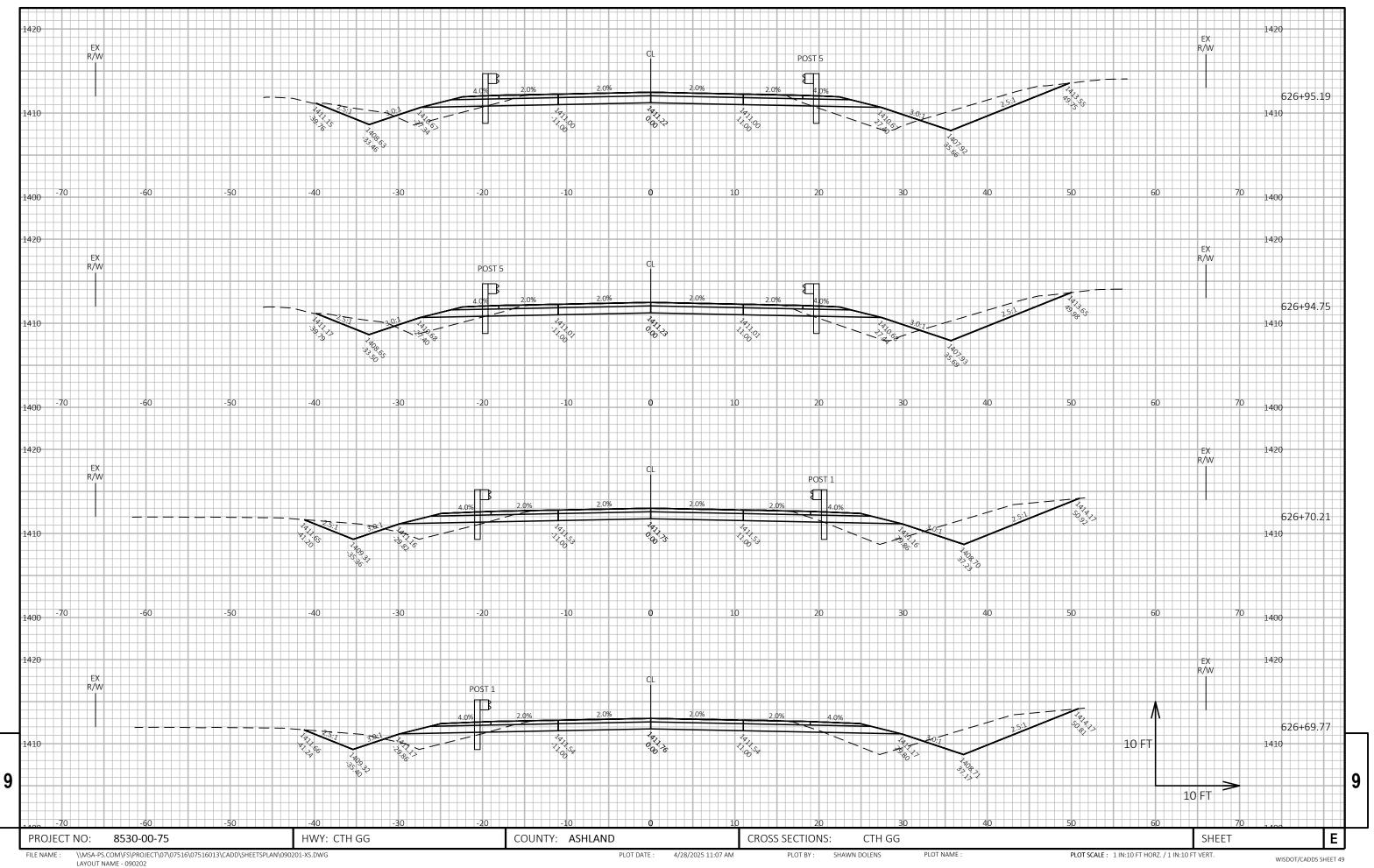
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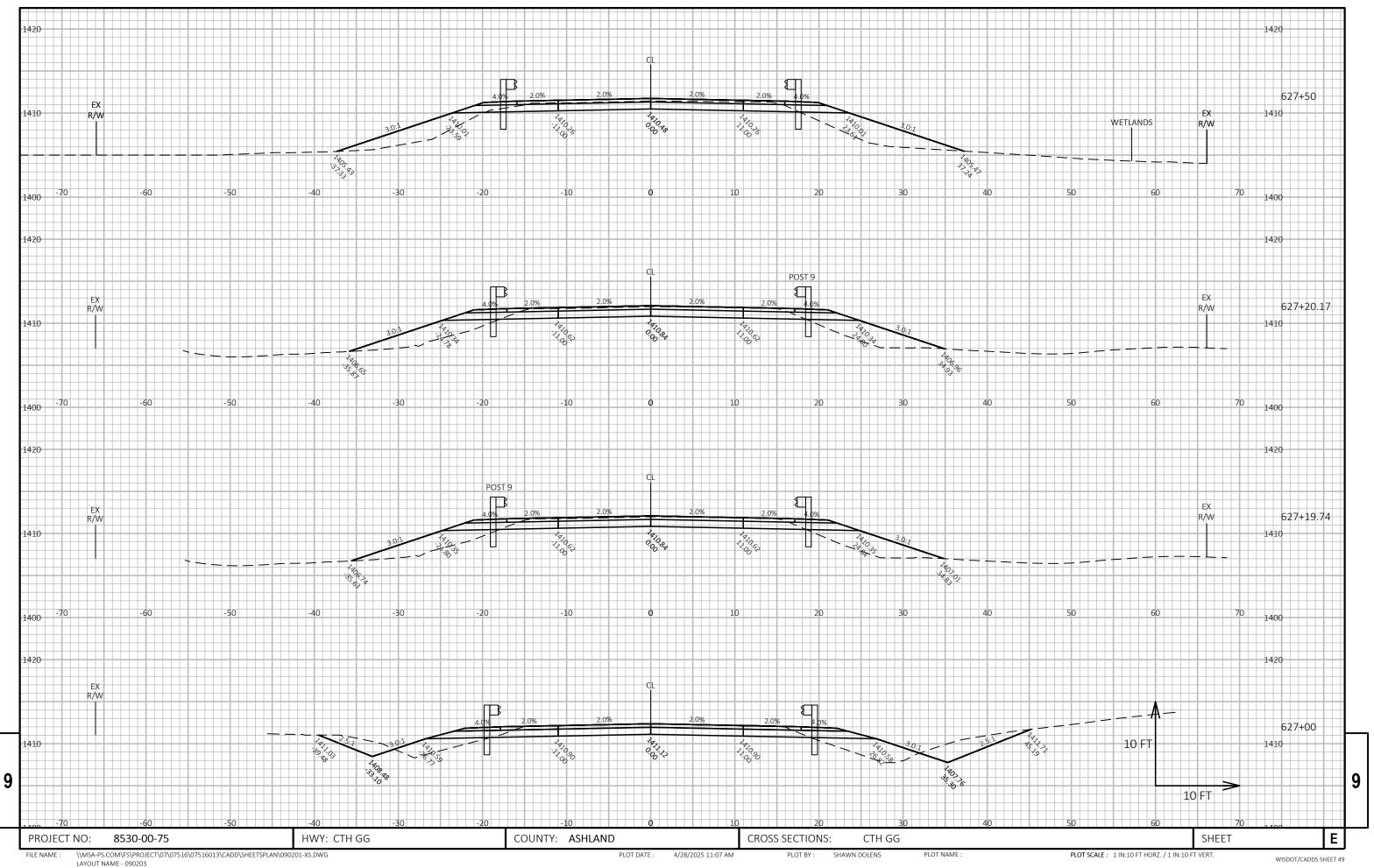
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PROJECT NO: 8530-00-75

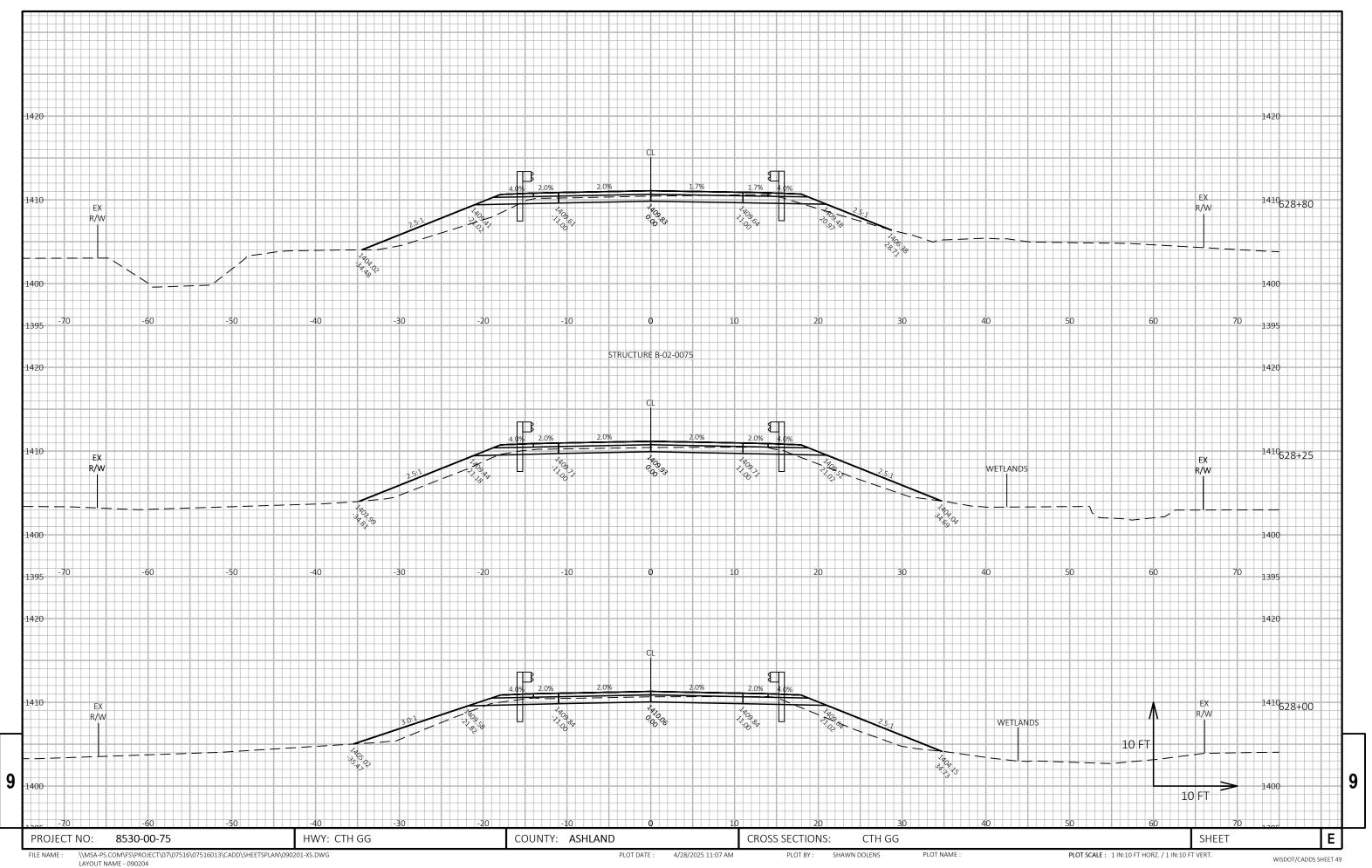


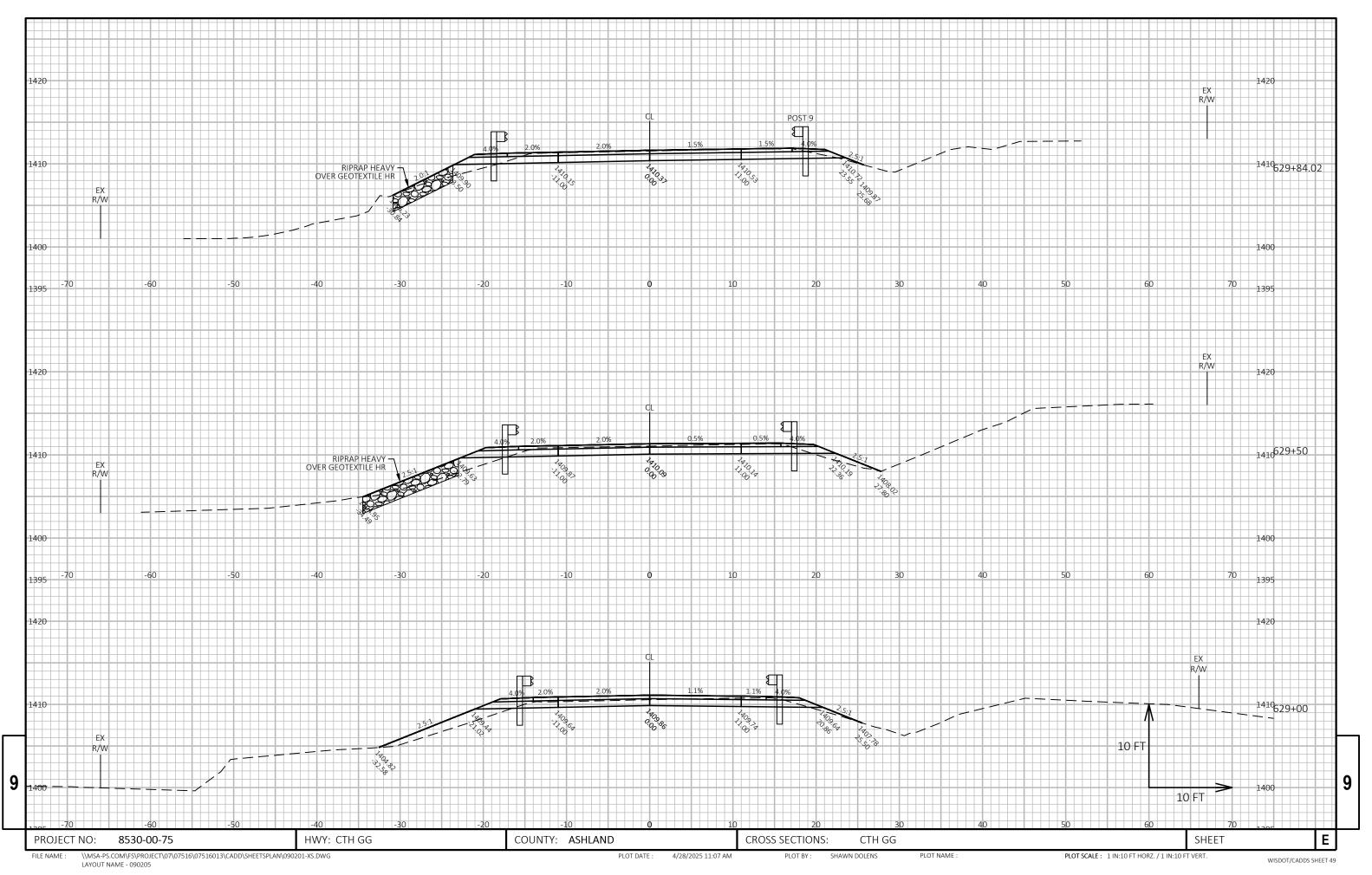


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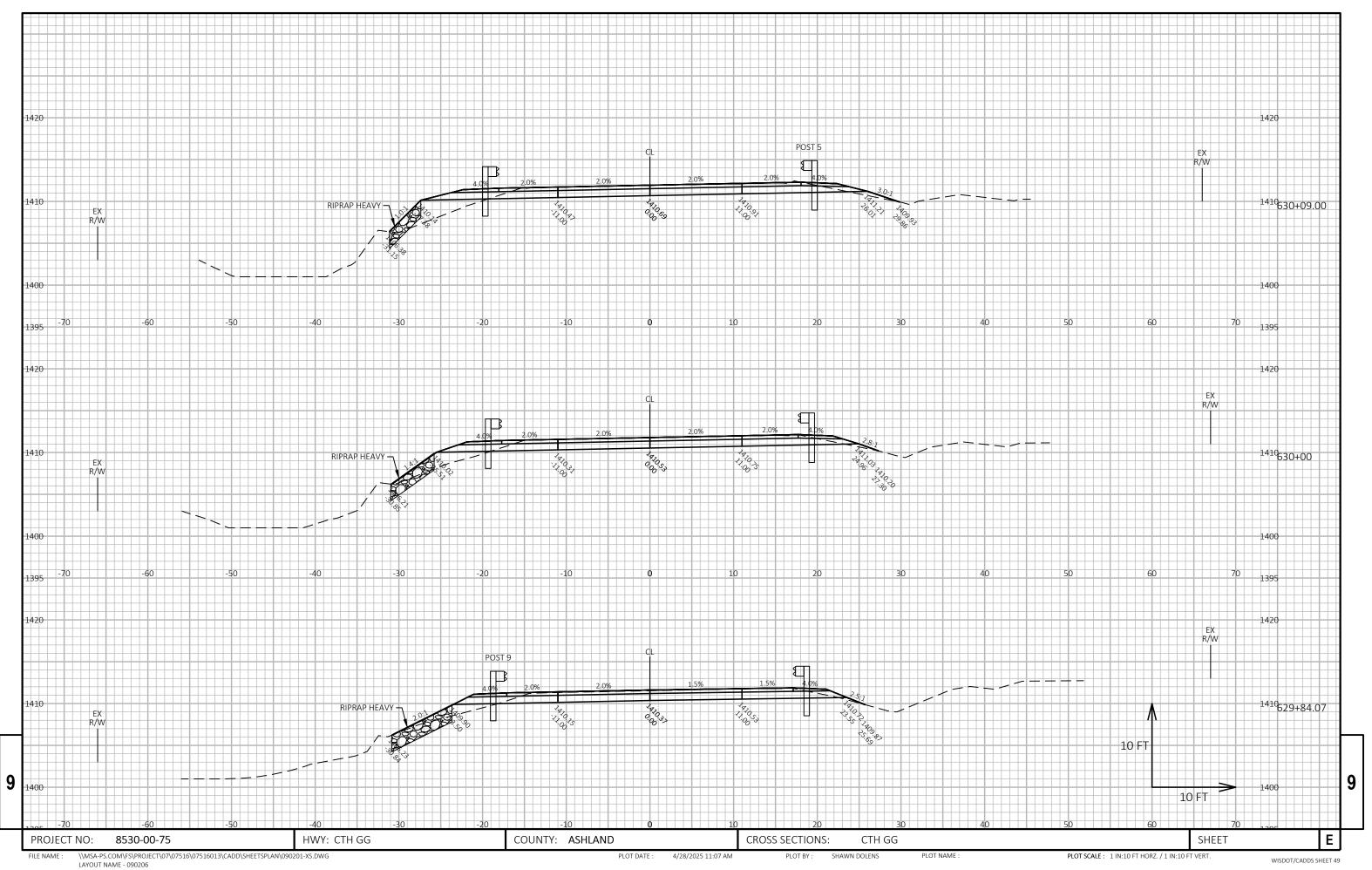


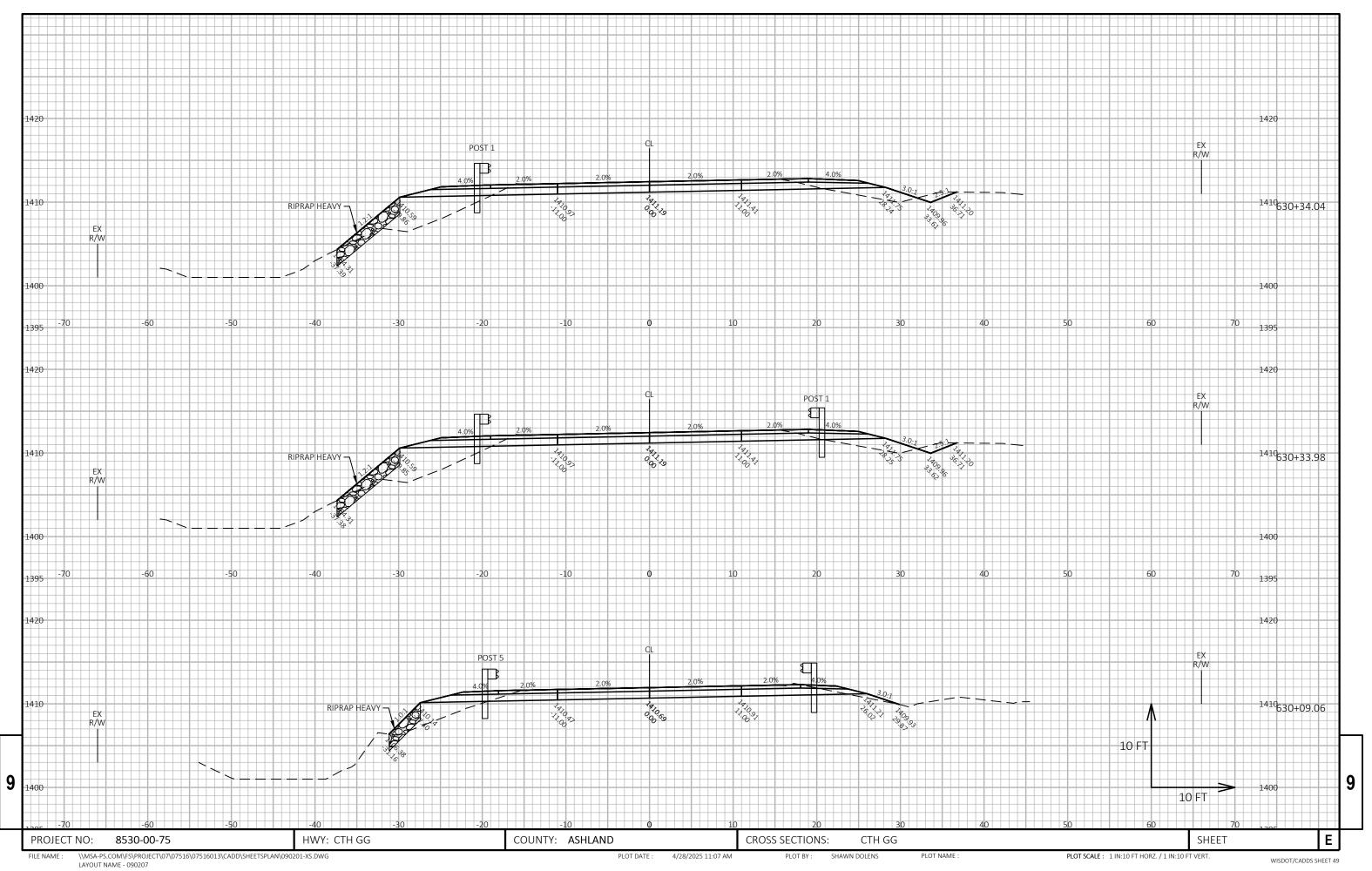
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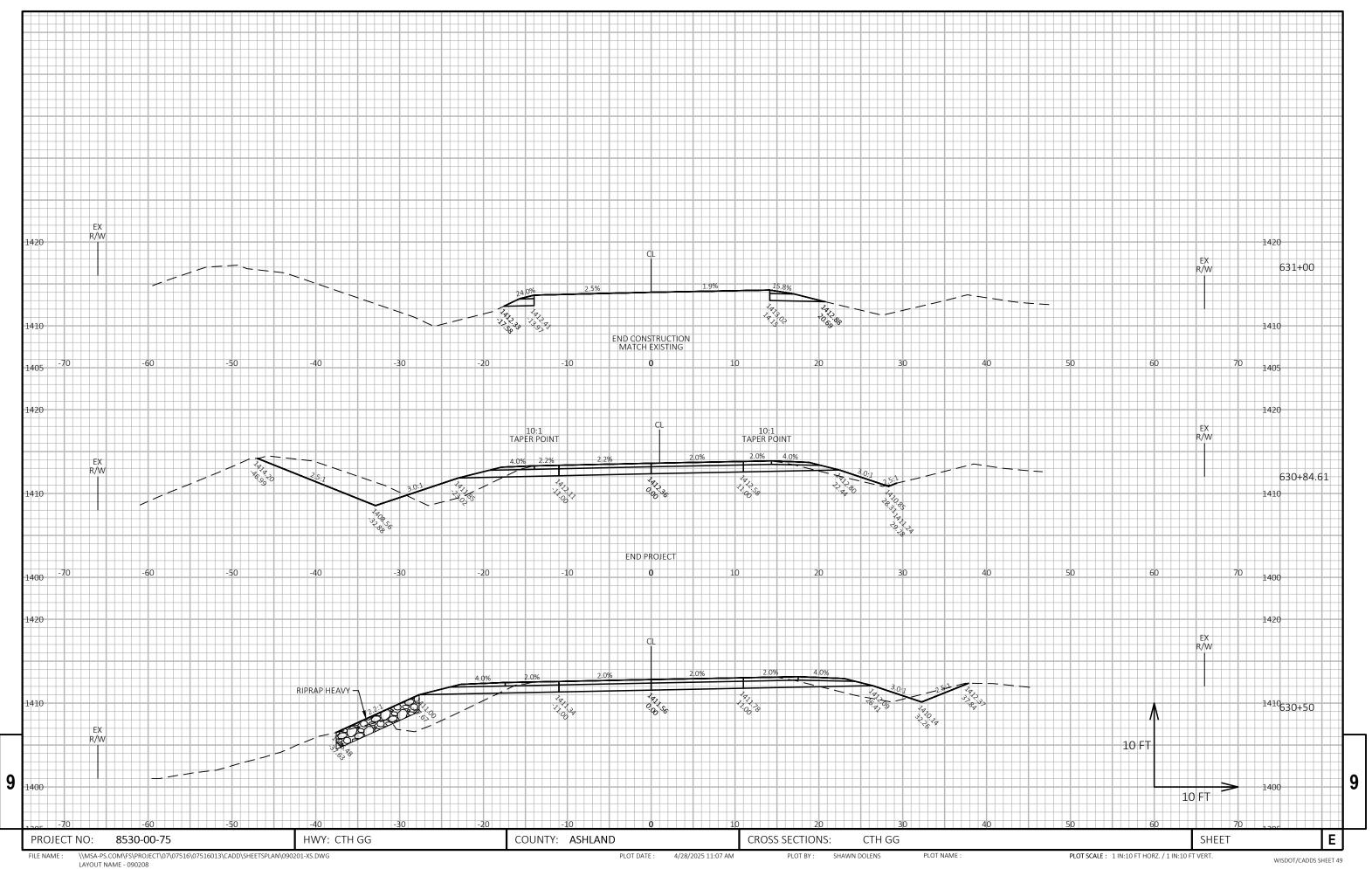




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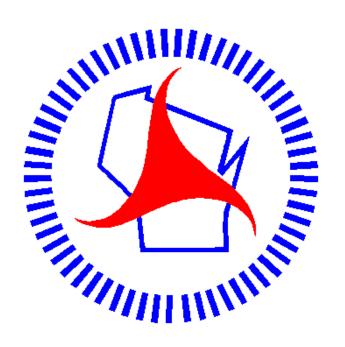






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Notes



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