

FILE NAME : I:\45\450510 CALUMET CTY LINE RD\C3D\SHEETSPLAN\010101-TI.DWG

	FEDERAL PROJE	СТ
	PROJECT	CONTRACT
4474-03-71	WISC 2023156	1
	ACCEPTED FOR	۲ ۲
	TOWN OF BRILLI	ON
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	D1201- 012 . =	$f \cdot 1$
	1/ Ad /2022 Term 7 DATE TOWN CH	AIRMAN
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	INTIN SCONS	MARINE .
	A RYAN D.	
		1.1
	GREEN BAY	
	M M	
	SIONAL EN	inna.
	7-19-22	2
	(Date)	
	STATE OF WISCONS	
	DEPARTIVIENT OF TRANSPO	JETATION
	PREPARED BY	F6
	Designer AYR	5
	Project Manager DOUGLA:	S KIRST
	Regional Supervisor BRIAN ED	WARDS
ν Υ.		
ERENCED	DATE: 1/2//2022 Km fm (Signatu	ire)
GEUID 18.		

GENERAL NOTES

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

CONSTRUCT ASPHALTIC SURFACE WITH A 1 3/4" UPPER LAYER AND A 2 1/4" LOWER LAYER.

PROPERTY LINES AS SHOWN ARE APPROXIMATE.

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

BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS TO THE NEAREST SECOND.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

EROSION CONTROL LOCATIONS AS SHOWN ON THE EROSION CONTROL PLAN ARE APPROXIMATE. THE EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SUBGRADE SHOULDER POINTS, ARE TO BE SEEDED AND EROSION MAT AS DIRECTED BY THE ENGINEER.

WISDOT WILL FURNISH A BENCHMARK MONUMENT TO BE SET BY THE CONTRACTOR.

SAW CUT LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD. THE LINE OF SUCH SAW CUTS WILL BE NEATLY DELINEATED THROUGH THE ASPHALT WITHOUT ANY DAMAGE TO THE REMAINING PORTION OF THE EXISTING PAVEMENT.

UTILITIES

- * AT&T DISTRIBUTION 205 S. JEFFERSON STREET GREEN BAY, WI 54301 ATTENTION: KYLE WEBER E-MAIL: kw715w@att.com
- * WISCONSIN PUBLIC SERVICE (ELECTRIC) 2850 S. ASHLAND AVENUE GREEN BAY, WI 54304 ATTENTION: CHARLES WINDUS E-MAIL: charles.windus@wisconsinpublicservice.com

TELEPHONE 920-617-5281 CELL 920-606-1141

TELEPHONE 920-221-5969

*-MEMBER OF DIGGERS HOTLINE



DEPARTMENT OF NATURAL RESOURCES

WDNR

FILE NAME :

TELEPHONE 920-366-1544 2984 SHAWANO AVENUE GREEN BAY, WISCONSIN 54313

ATTENTION: MATT SCHAEVE E-MAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

PROJECT NO:	4474-03-71

LAYOUT NAME - 020101-gn

HWY: COUNTY LINE ROAD

COUNTY: CALUMET

GENERAL	NOTES
GLINLINAL	NULLS

RUNOFF COEFFICIENT TABLE HYDROLOGIC SOIL GROUP А В SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT LAND USE 0-2 2-6 6 & OVER 0-2 6 & OVER 2-6 .16 ROW CROPS .08 .22 .12 .20 .27 .22 .30 .38 .26 .34 .44 MEDIAN STRIP-.19 .20 .26 .24 .19 .22 TURF .24 .26 .30 .25 .28 .33 .27 SIDE SLOPE-.25 TURF .32 .34 PAVEMENT: ASPHALT .70 -CONCRETE .80 -BRICK .70 -DRIVES, WALKS .75 -ROOFS .75 -GRAVEL ROADS, SHOULDERS .40 -TOTAL PROJECT AREA = 1.42 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 1.01 ACRES

SOIL GROUP C/D.

ADT	AVERAGE DAILY TRAFFIC
AC	ASPHALT CEMENT
AGG	AGGREGATE
ASPH	ASPHALT
BM	BENCH MARK
C/L	CENTERLINE
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CR.	CREEK
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
ESALS	EQUIVALENT SINGLE AXIS LOA
EXIST	EXISTING
FE	FIELD ENTRANCE
HYD	HYDRANT
IP	IRON PIPE OR PIN
L	LENGTH OF CURVE
LC	LONG CHORD OF CURVE
LR	LENGTH OF RUNOFF
MH	MANHOLE

7/26/2022 6:30 AM PLOT BY : GARNICA, BRANDON

PLOT NAME

- ADS

PLOT DATE :

		С			D				
)	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)					
٦	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER			
	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56			
	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40			
			.28 .36			.30 .38			
.95									
.95									
.80									
.85									
.95									
.60									

STANDARD ABBREVIATIONS

NC	NORMAL CROWN
PT	POINT OF TANGENCY
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PE	PRIVATE ENTRANCE
R	RADIUS
REM	REMOVE
R/L OR RL	REFERENCE LINE
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
R.O.	RUNOUT
R/W	RIGHT-OF-WAY
STA	STATION
SE	SUPER ELEVATION
SS	STORM SEWER
Т	TANGENT
TEL	TELEPHONE
TLE	TEMPORARY LIMITED EASEMENT
Т	TRUCKS
VC	VERTICAL CURVE
W	WELL

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WISDOT/CADDS SHEET 42



TOP VIEW

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS (SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



SIDE VIEW (SINGLE LAYER)



SIDE VIEW (MULTIPLE LAYER)

ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

PROJECT NO: 4474-03-71	HWY: COUNTY LINE ROAD	COUNTY: CALUMET		CONSTRUCTION	DETAILS	
FILE NAME : I:\45\450510 CALUMET CTY LINE RD\C3D\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 021001-cd		PLOT DATE :	7/21/2022 1:49 PM	PLOT BY :	GARNICA, BRANDON	PLOT NAME :



2

SILT FENCE USED ALONG THE TOE OF SLOPE

WATER $\langle \mathbf{P} \rangle$ SECTION A-A

PLACE ROCK BAGS TIGHTLY AGAINST EACH OTHER TO PREVENT VOIDS

PLOT SCALE : 1 IN:200 FT SHEET

WISDOT/CADDS SHEET 42

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FILE NAME : I:\45\450510 CALUMET CTY LINE RD\C3D\SHEETSPLAN\021201-PD.DWG LAYOUT NAME - 021201-pd PLOT DATE : 7/21/2022 1:49 PM PLOT BY : GARNICA, BRANDON PLOT NAME :



Estimate Of Quantities

					4474-03-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	6.000	6.000	
0004	201.0205	Grubbing	STA	6.000	6.000	
0006	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000	
8000	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-8-914	EACH	1.000	1.000	
0010	204.0110	Removing Asphaltic Surface	SY	500.000	500.000	
0012	205.0100	Excavation Common	CY	583.000	583.000	
0014	205.0400	Excavation Marsh	CY	585.000	585.000	
0016	206.1001	Excavation for Structures Bridges (structure) 01. B-8-119	EACH	1.000	1.000	
0018	208.0100	Borrow	CY	1,114.000	1,114.000	
0020	208.1100	Select Borrow	CY	878.000	878.000	
0022	210.1500	Backfill Structure Type A	TON	250.000	250.000	
0024	213.0100	Finishing Roadway (project) 01. 4474-03-71	EACH	1.000	1.000	
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	110.000	110.000	
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,110.000	1,110.000	
0030	415.0060	Concrete Pavement 6-Inch	SY	5.000	5.000	
0032	416,1010	Concrete Surface Drains	CY	2.000	2.000	
0034	455.0605	Tack Coat	GAL	20.000	20.000	
0036	465.0105	Asphaltic Surface	TON	330.000	330.000	
0038	502.0100	Concrete Masonry Bridges	CY	178 000	178.000	
0040	502.3200	Protective Surface Treatment	SY	140,000	140.000	
0042	502 3210	Pigmented Surface Sealer	SY	65 000	65 000	
0044	505 0400	Bar Steel Reinforcement HS Structures	LB	3 480 000	3 480 000	
0046	505 0600	Bar Steel Reinforcement HS Coated Structures	LB	23 310 000	23 310 000	
0048	516 0500	Rubberized Membrane Waterproofing	SY	18 000	18 000	
0050	520 1024	Apron Endwalls for Culvert Pipe 24-Inch	FACH	2 000	2 000	
0052	520 3324	Culvert Pine Class III-A 24-Inch	LF	42 000	42 000	
0054	550 1100	Piling Steel HP 10-Inch X 42 I h	L.	1 225 000	1 225 000	
0056	601 0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	L.	80 000	80 000	
0058	606 0200	Rinran Medium	CY	14 000	14 000	
0060	606.0300	Riprap Heavy	CY	310,000	310,000	
0062	612 0406	Pipe Underdrain Wrapped 6-Inch	LE	150 000	150 000	
0064	614 0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4 000	4 000	
0066	614 2300	MGS Guardrail 3	LF	200.000	200.000	
0068	614 2500	MGS Thrie Beam Transition	L.	157 600	157 600	
0070	614 2610	MGS Guardrail Terminal FAT	EACH	4 000	4 000	
0072	619 1000	Mobilization	EACH	1 000	1 000	
0072	624 0100	Water	MGAI	12 000	12 000	
0076	625.0100	Topsoil	SV	2 730 000	2 730 000	
0070	627.0200	Mulching	SY	2,730.000	2,730.000	
0080	628 1504	Silt Fonce	IF	380.000	380.000	
0000	628 1520	Silt Fence Maintenance		760.000	760.000	
0002	628 1005	Mobilizations Erosion Control		6 000	6 000	
0004	628 1010	Mobilizations Emergency Erosion Control	EACH	4 000	4 000	
0000	628 2008	Frosion Mat Linhan Class I Type B	SV	2 100 000	2 100 000	
0000	628 2027	Erosion Mat Class II Type D	ev	635.000	635 000	
0090	628 6005	Liveron mat class in Type C	ST SV	130.000	130.000	
0092	628 7570	Rock Bage	EACH	165 000	165 000	
0094	620.7570	Fortilizer Type R		2 500	2 500	
0000	029.0210	Fertilizer Type D		3.500	3.500	
0098	630.0120	Seeding Mixture No. 20	LB	90.000	90.000	



			E	stimate Of C	Quantities	
					4474-03-71	
Line	Item	Item Description	Unit	Total	Qty	
0100	630.0200	Seeding Temporary	LB	150.000	150.000	
0102	630.0300	Seeding Borrow Pit	LB	30.000	30.000	
0104	630.0500	Seed Water	MGAL	115.000	115.000	
0106	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0108	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0110	638.2602	Removing Signs Type II	EACH	8.000	8.000	
0112	638.3000	Removing Small Sign Supports	EACH	8.000	8.000	
0114	642.5001	Field Office Type B	EACH	1.000	1.000	
0116	643.0420	Traffic Control Barricades Type III	DAY	1,672.000	1,672.000	
0118	643.0705	Traffic Control Warning Lights Type A	DAY	2,584.000	2,584.000	
0120	643.0900	Traffic Control Signs	DAY	1,672.000	1,672.000	
0122	643.5000	Traffic Control	EACH	1.000	1.000	
0124	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000	
0126	645.0120	Geotextile Type HR	SY	598.000	598.000	
0128	646.1020	Marking Line Epoxy 4-Inch	LF	1,040.000	1,040.000	
0130	650.4500	Construction Staking Subgrade	LF	605.000	605.000	
0132	650.5000	Construction Staking Base	LF	605.000	605.000	
0134	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	80.000	80.000	
0136	650.6501	Construction Staking Structure Layout (structure) 01. B-08-0119	EACH	1.000	1.000	
0138	650.9911	Construction Staking Supplemental Control (project) 01. 4474-03-71	EACH	1.000	1.000	
0140	650.9920	Construction Staking Slope Stakes	LF	605.000	605.000	
0142	690.0150	Sawing Asphalt	LF	44.000	44.000	
0144	715.0502	Incentive Strength Concrete Structures	DOL	1,068.000	1,068.000	
0146	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 49+93	EACH	1.000	1.000	
0148	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0150	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000	



EARTHWORK SUMMARY

Division	From/To Station	Location	Common (Item #205.0100) CUT (2)	Unusable Pavement (4)	Available Material (5)	Excavation Marsh (6) (Item#205.0400)	Expanded Marsh Backfill (10) (Item #208.1100) Factor 1.50	Unexpanded Fill	Expanded Fill (13) Factor 1.30	Mass Ordinate +/-	Borrow (Item #208.0100)	COMMENT:
1	46+66.6 - 47+50	NORTH COUNTY LINE ROAD (SW SHOULDER)	92	0	92	38	57	96	125	-33	33	
	47+38.9 - 47+50	NORTH COUNTY LINE ROAD (NW SHOULDER)	2	0	2	0	0	6	8	-6	6	
	47+50 - 50+50	NORTH COUNTY LINE ROAD (MAINLINE)	266	80	186	506	759	969	1,260	-1,074	1,074	
	50+50 - 53+16.3	NORTH COUNTY LINE ROAD (NE SHOULDER)	183	0	183	31	47	56	73	110	-110	
	50+50 - 52+44.3	NORTH COUNTY LINE ROAD (SE SHOULDER)	40	0	40	10	15	117	152	-112	112	
Division 1	Totals		583	80	503	585	878	1,244	1,617	-1,114	1,114	

Notes:

2) Unsuable Pavement Material is included in Cut

4) Unusable Pavement Material = Existing Asphaltic Pavement. Backfill any areas below subgrade with borrow.

5) Available Material = Cut - Unusuable Pavement Material

6) Marsh Excavation. To be backfilled with Select Borrow Material as shown in cross sections.

10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item Number 208.1100

13) Expanded Fill. Factor = 1.3 Expanded Fill = Unexpanded Fill * Fill Factor

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

CLEARING AND GRUBBING

					201.0105 CLEARING	201.0205 GRUBBING			416.1010	606.0200	
CATEGORY	STATION	TO	STATION	LOCATION	STA	STA			CONCRETE		
									SURFACE	RIPRAP	
0010	46+00	-	52+00	NORTH COUNTY LINE ROAD	6	6			DRAINS	MEDIUM	
					_	_	CATEGORY STATIC	N LOCATION	CY	CY	M TYPE F
				TOTAL 0010	6	6					
		TOTAL 0010 6 6 CATEGORY STATION LOCATION CY CY APPING TO BE COMPLETED BY MARCH 31, CLEAR AND CRUB TO E EFET OUTSIDE SLODE INTERCEPTS 0010 49+18 NORTH COUNTY LINE ROAD, LT & RT 2 14									
OTE: TREE C	LEARING TO	BECC	OMPLETED	BY MARCH 31. CLEAR AND GRU	B TO 5 FEET OU	UTSIDE SLOPE I	416.1010 606.0200 645.012 CONCRETE SURFACE RIPRAP GEOTEXT DRAINS MEDIUM TYPE H CATEGORY STATION LOCATION CY CY SY 0010 49+18 NORTH COUNTY LINE ROAD, LT & RT 2 14 28 VTERCEPTS. TOTAL 0010 2 14 28				
								TOTAL 0010	2	14	

NOTE: FINAL PLACEMENT OF FLUME MUST MAINTAIN THE MINIUM POST SEPARATION DISTANCES

REMOVING SMALL PIPE CULVERTS

	CATEGORY	STATION	LOCATION	203.0100 EACH	REMARKS						455.06()5
	0010	52+50	NORTH COUNTY LINE ROAD, LT	1	24"X32' CMCP			CATEGORY	στατίον το στατίο		TACK COA	-
			TOTAL 0010	1				0010	47+40 - 49+7	NORTH COUNTY LINE ROAD	10	
								0010	50+15 - 52+50	NORTH COUNTY LINE ROAD	10	_
										TOTAL 0010	20	
CT NO:	4474-03-71		HWY: NORTH C	OUNTY LINE	ROAD CO	UNTY: CALUMET	MISCELLANEOUS QUANTI	TIES			SHI	11

DJECT NO: 4474-03-71	HWY:	NORTH COUNTY LINE ROAD	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES

CONCRETE SURFACE DRIAN ITEMS

HMA PAVEMENT

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REMOVING ASPHALTIC SURFACE

					204.0110
CATEGORY	STATION	ТО	STATION	LOCATION	SY
0010	47+40	-	47+50	NORTH COUNTY LINE ROAD	26
0010	50+50	-	52+56	NORTH COUNTY LINE ROAD	474

TOTAL 0010

500

CATEGORY STATION TO STATION

LOCAT

0010 52+30 - 52+77 NORTH COUNTY

TOTAL

BASE AGGREGATE DENSE & WATER

			305.0110	305.0120	624.0100			CONCRETE CUE	B AND GUTTER AND CONCRETE P	AVEMENT	
			BASE	AGGREGATE							
			AGGREGATE	DENSE 1 1/4-						415.0060	601.0588
			DENSE 3/4-INCH	INCH	WATER					11010000	CONCRETE CURB &
CATEGORY	STATION TO STATION	LOCATION	TON	TON	MGAL	REMARKS				CONCRETE	GUTTER 4-INCH
										PAVEMENT	SLOPED 36-INCH
0010	49+06 - 49+71	NORTH COUNTY LINE ROAD	65	415	4.7					6-INCH	TYPE TBT
0010	50+15 - 50+50	NORTH COUNTY LINE ROAD	45	403	4.4		CATEGORY	STATION TO STATION	LOCATION	SY	LF
0010	47+40 - 47+50	NORTH COUNTY LINE ROAD	-	4	0.1	FINE GRADING FOR PAVEMENT REMOVAL AR	REA				
0010	50+50 - 52+56	NORTH COUNTY LINE ROAD		78	0.8	FINE GRADING FOR PAVEMENT REMOVAL AR	REA 0010	49+21 - 49+61	NORTH COUNTY LINE ROAD. LT & RT	-	80
							0010	49+61 - 49+71	NORTH COUNTY LINE ROAD. LT & RT	5	-
		TOTAL 0010	110	900	10.0					1	
0030	47+50 - 49+06	NORTH COUNTY LINE ROAD	_	210	2.0	BASE COURSE LIMITS FOR CAT 0030 AT +/-11' OFFSE	ET FROM CL		TOTAL 0010	5	80
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		TOTAL 0030	0	210	2.0						
		PROJECTIOTAL	110	1,110	12.0						

PROJECT NO: 4474-03-71

HWY: NORTH COUNTY LINE ROAD COUNTY: CALUMET

MISCELLANEOUS QUANTITIES

<u>CULVERT PIPE</u>

0010	2	42	
LINE ROAD, LT	2	42	0.064
FION	EACH	LF	INCH
	24-INCH	INCH	STEEL
	CULVERT PIPE	CLASS III-A 24-	THICKNESS
	ENDWALLS FOR	CULVERT PIPE	
	APRON		
	520.1024	520.3324	

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SHEET

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EROSION MAT

MGS GUARDRAIL

		TOTAL 0010	200	157.6	4					
0010	50+25.3 - 52+03.4	NORTH COUNTY LINE ROAD, LT	87.5	39.4	1			TOTAL 0010	2,100	635
0010	50+25.3 - 51+28.4	NORTH COUNTY LINE ROAD, RT	12.5	39.4	1		UNDISTRIBUTED		420	128
0010	48+57.6 - 49+60.8	NORTH COUNTY LINE ROAD, LT	12.5	39.4	1	0010	50+25 - 53+16	NORTH COUNTY LINE ROAD	499	245
0010	47+82.6 - 49+60.8	NORTH COUNTY LINE ROAD, RT	87.5	39.4	1	0010	46+67 - 49+95	NORTH COUNTY LINE ROAD	1,181	262
CATEGORY	STATION TO STATION	LOCATION	LF	LF	EACH	CATEGORY	STATION TO STATION	LOCATION	SY	SY
			GUARDRAIL 3	TRANSITION	TERMINAL EAT				TYPE B	CLASS II TYPE C
			MGS	BEAM	GUARDRAIL				URBAN CLASS I	EROSION MAT
				MGS THRIE	MGS				EROSION MAT	
			614.2300	614.2500	614.2610				628.2008	628.2027

TURBIDITY BARRIERS

628.6005 TURBIDITY BARRIERS STATION CATEGORY LOCATION SY 0010 49+93 NORTH COUNTY LINE ROAD 130 TOTAL 0010 130

<u>SILT FENCE</u>

					628.1504	628.1520
						SILT FENCE
					SILT FENCE	MAINTENANCE
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF
0010	47+43	-	49+64	NORTH COUNTY LINE ROAD	216	432
0010	50+28	-	51+38	NORTH COUNTY LINE ROAD	164	328
				TOTAL 0010	380	760

LANDSCAPING ITEMS

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MOBILIZATIONS EROSION CONTROL

PROJECT NO): 4474-03-71		HWY: NORTH	H COUNTY LINE	ROAD CC	OUNTY: CALUMET		MISCELLAN	EOUS QUA	NTITIES					SHEET	E
							TOTAL 0010	2,730	2,230	3.5	90	150	30	115		
		TOTAL 0010	6	4	0010	UNDISTRIBUTED	ENTIRE PROJECT	543	-	0.7	31	31	-	23		
0010 4	46+67 - 53+16	NORTH COUNTY LINE ROA	D 6	4	0010 0010	UNDISTRIBUTED UNDISTRIBUTED	NORTH COUNTY LINE ROAE BORROW PIT) -	1,110 1,120	0.7 0.7	-	30 30	- 30	31	SPRING TREE CLEARING	
CATEGORY ST	TATION TO STATION	LOCATION	CONTROL EACH	CONTROL EACH	0010 0010	46+67 - 49+93 49+93 - 53+16	NORTH COUNTY LINE ROAD) 1,443) 744	-	0.9 0.5	39 20	39 20	-	40 21		
			628.1905 MOBILIZATIONS	628.1910 MOBILIZATIONS EMERGENCY	CATEGORY	STATION TO STATION	LOCATION	TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	SEED WATER MGAL	REMARKS	
								625.0100	627.0200	629.0210	630.0120	630.0200	630.0300	630.0500		

<u>ROCK BAGS</u>

			628.7570 ROCK BAGS
CATEGORY	STATION	LOCATION	EACH
0010	47+04	NORTH COUNTY LINE ROAD, LT	15
0010	48+00	NORTH COUNTY LINE ROAD, LT	15
0010	48+40	NORTH COUNTY LINE ROAD, RT	15
0010	49+00	NORTH COUNTY LINE ROAD, LT	15
0010	49+57	NORTH COUNTY LINE ROAD, LT	15
0010	50+25	NORTH COUNTY LINE ROAD, LT & RT	30
0010	50+85	NORTH COUNTY LINE ROAD, LT	15
0010	51+42	NORTH COUNTY LINE ROAD, RT	15
0010	51+50	NORTH COUNTY LINE ROAD, LT	15
0010	52+00	NORTH COUNTY LINE ROAD, RT	15

TOTAL 0010

165

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TRAFFIC CONTROL

			643.	0420	643.	0705	643.	0900
			TRAFFIC BARRICA I	CONTROL ADES TYPE II	TRAFFIC WARNIN TYF	CONTROL IG LIGHTS PE A	TRAFFIC SIG	CONTF GNS
		APPROXIMATE SERVICE		NO. IN SERVICE		NO. IN SERVICE		NO. SERV
ATEGORY	LOCATION	DAYS	DAYS	EACH	DAYS	EACH	DAYS	EAC
0010	STH 32	76	152	2	304	4	152	2
0010	WEST OF WORK ZONE LIMITS	76	304	4	532	7	608	8
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0010	NW QUADRANT	NORTH COUNTY LINE ROAD	1	3	-
0010	SE QUADRANT	NORTH COUNTY LINE ROAD	1	3	-
0010	NE QUADRANT	NORTH COUNTY LINE ROAD	1	-	3
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PLOT BY : BOSTEDT, JILL

PLOT NAME :



LAYOUT NAME - 050101-pp

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PLOT DATE : PLOT BY : 7/21/2022 1:50 PM

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

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SDD 08D01 22a

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DEPARTMENT OF TRANSPORTATION

22 . **08D01** SDD



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GENERAL NOTES

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- (8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- (9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (1) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (1) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE FABRIC TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- (20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

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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 $1/_8$ " X $1/_8$ " 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.







(WHEN REQUIRED BY THE ENGINEER)





- WATER ELEVATIONS.





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GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

 \bigoplus for PIPE SIZES UP to 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED II/30/94 DATE FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

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SDD 08F04





ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



ALTERNATE LUG

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

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TIE BAR TABLE

	PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR Length (L)	MAX. TIE BAR Spacing
	< 10 1⁄2"	NO. 4	30"	36"
	> 10 1/2"	NO. 5	36"	36"
	2 10 72	NO. 4 *	30"	24" * *

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN THE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ^{***}	CONTRACTION Joint Spacing
5 1/2", 6",6 1/2"	NONE	12'
7", 7 1/2"	1''	14'
8" , 8 ¹ /2"	1 1⁄4"	15'
9" , 9 ½"	1 1⁄4"	15'
10" & ABOVE	1 1/2"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

GENERAL NOTES

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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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A LONGITUDINAL CONSTRUCTION JOINT













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DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(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 REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5%" DIAMETER A563A DOUBLE



SECTION THRU W-BEAM RAIL

07b . N 4 à 4 ~ SDD

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MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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SDD 14B42 07d

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

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

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 $2 \hspace{-0.5mm}/ 2^{\! \prime \prime}$ DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.





10 31 -(15) SHOULDER HINGE POINT SLOPE 10:1-OR FLATTER

POST BOLT

(TYP.)

MGS BEAM

GUARD (MGS)







SECTION C - C **TYPICAL AT POST NOS. 3 - 9**

SECTION B - B TYPICAL AT POST NO. 2*



SDD 14B44 - 04b

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BILL OF MATERIALS

N SEE	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER	R POST NO. 1 6" X 6" TUBE
LOWE	R POST NO. 1
WOOD	DCRT
WOOD	DBLOCKOUT
PIPE S	SLEEVE
BEARI	NG PLATE
BCT C	ABLE ASSEMBLY
ANCH	OR CABLE BOX
GROU	IND STRUT
PERFO	ORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANE SECTI	DARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. ONS VARY IN LENGTH.
IMPAC	T HEAD
EAT M (SEE A	IARKER POST - YELLOW APPROVED PRODUCTS LIST)
SOIL F	PLATE
UPPER	R POST NO. 2
LOWE	R POST NO. 2

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SDD14B44 - 04b

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION


SDD 14B44 - 04c





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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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DETAILS.ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.
DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
• ± 1".
HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING Fal to the contract.
A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRIE BEAM CONNECTION PLATE.CONTRACTOR IS TO FIELD AD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE IER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER.REPAIR ANY INSTALLATION.
NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 $1/_2$ ".
HE BEAM MINAL NECTOR HEAD HER ?.)

MIDWEST GUARDRAIL SYSTEM Thrie beam transition (MGS)	45-5d
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	14 B
APPROVED 07/2018 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT HWA UNIT SUPERVISOR	S_D_D_





GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

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)

 - 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 THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT 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 SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

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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.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

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SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER







GENERAL NOTES

- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



PROJECT NO:	HWY:	COUNTY:			
			DU OT DUTE V AT NUM ODOO AVA	DI OT DY I IO	DLOT NAME -

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 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of $2'-3''(\pm)$. 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'' (+). 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or $6'-3''(\pm)$ depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42



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PROJECT NO:	HWY:	COUNTY:		
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN		PLOT DATE : 27-JAN-2014 09	:48 PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



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

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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 $7'-3''(\pm)$ or $6'-3''(\pm)$ depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

 \times \times See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS										
)	WISCONSIN DEPT OF TRANSPORTATION										
/	APPROVED Matther & Rauch										
	For State Traffic Engineer										
]	DATE 8/21/17 PLATE NO. 44-4.15										
	SHEET NO: E										
DI AT CA											

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



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3 fasteners.

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

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E





FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Х	ô	WOO	DF	POST								
	MODIFICATIONS													
	WISCONSIN DEPT OF TRANSPORTATION													
	APPROVE	D		hester .	Γέ	Spang								
			tor	State Tr	affic Er	ngineer								
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2							
			9	SHEET	N0:		Ε							
OT SCALE	E:6.20 7 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42							



- 2. Color:
 - Background White Message – Black
- 3. Message Series D



SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	M	N	0	P	0	R	S	Т	U	v	W	X	Y	Z
1																										
25	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8															
2M	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3/4	9 7/8															
3	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8															
4	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8															
5	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 ¾	9 7/8															
PRC	PROJECT NO:																									
FILE N	FILE NAME : C:\Users\PRO.ECTS\tr stdplate\R112B.DGN												PLOT DATE: 01-APR-2011 14:23 PLOT BY: msc.i9h													

NOTES

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

STANDARD SIGN
R11-2B
WISCONSIN DEPT OF TRANSPORTATION
APPROVED MHH D
Fer State Traffic Engineer
DATE 4/1/11 PLATE NO. R11-2B.2
SHEET NO: E

WISDOT/CADDS SHEET 42

NOTES

- 2. Color:

Background - White Message – Black

- 3. Message Series C
- Н V D ->> E→ F K ->K P (-G 0 - ** NL -R11-3C ** See Note 5 → ** | 0 ► — R 0 \rightarrow

SIZE	Α	В	С	D	E	F	G	н	I	J	ĸ	L	м	N	0	P	0	R	S	Т	U	v	W	X	Y	Z	s
1	36	15	1 3/8	1/2	5⁄8	4	3	2 1/2	13 1⁄4	2 1/4	3	8	8	1 1/2	2	10 3⁄4	7	1/8									
25	60	24	1 3/8	1/2	5⁄8	6	5	4	20 1/8	3	5	12	13 1/4	1 3⁄4	3	17 3/8	11	7⁄8									1
2M	60	24	1 3/8	1/2	5⁄8	6	5	4	20 1/8	3	5	12	13 1/4	1 3⁄4	3	17 3/8	11	7⁄8									1
3																											
4																											
5																											
PRC	PROJECT NO:																										
FILE N	I																										

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1. Sign is Type II - Type H Reflective
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.
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FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

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PLOT NAME :

NOTES

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

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. Alternate colors of stripes as shown.

Z	Area sq. ft.	STANDARD SIGN
		W5-52L & W5-52R
	3.0	
	3.0	WISCONSIN DEPT OF TRANSPORTATION
	6.75	APPROVED Matthew & Rauch
		for State Traffic Engineer
		DATE 5/29/12 PLATE NO. W5-52.9
		SHEET NO: E
	PLOT	SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42

PLOT DATE : 29-MAY-2012 13:03



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

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PLOT DATE : 18-MAR-2011 12:08

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: Background - Orange Message - Black
- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

	Z	Area sq. ft.]							
4	1 3⁄4	9.0		51						
}	2 3/8	16.0		5	TANDARD SIGN					
,	2 3/8	16.0		W20-	·3A, B, C, D, F & G					
,	2 3/8	16.0		W/SCON	ISIN DEPT OF TRANSPORTATION					
3	2 3/8	16.0		APPROVED	Matther R Rauch					
3	2 3/8	16.0]	DATE 3/18	For State Traffic Engineer <u>8/11</u> PLATE NO. <u>W20-3.7</u>					
				SHEET NO: E						
		PLOT S	SCALE : 9.931739	9:1.000000	WISDOT/CADDS SHEET 42					



TOTAL ESTIMATED OUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS (P-8-914)	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-8-119	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	125	125		250
502.0100	CONCRETE MASONRY BRIDGES	CY	29.0	29.5	118.8	178
502.3200	PROTECTIVE SURFACE TREATMENT	SY			140	140
502.3210	PIGMENTED SURFACE SEALER	SY			65	65
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,740	1,740		3,480
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,990	2,010	19,310	23,310
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9		18
550.1100	PILING STEEL HP 10-INCH × 42 LB	LF	625	600		1,225
606.0300	RIPRAP HEAVY	CY	160	150		310
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75	75		150
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH			4	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	45	45		90
645.0120	GEOTEXTILE TYPE HR	SY	300	270		570
	NON-BID ITEMS					
	FILLER	SIZE				1/2 8 3/4"

8









TYPICAL FILL SECTION AT WING TIPS



FLANGE SHOWN, WEB



		STAT	E PROJECT	NUME	BER		
		4	474-03-	-71			
CENERAL NOT BRAWINGS SHALL NOT BE S BAR STEEL REINFORCEMENT UNLESS SHOWN OR NOTED OTHE THE FIRST DIGIT OF A THRE TWO DIGITS OF A FOUR DIGIT B JOINT FILLER SHALL CONFOL A.A.S.H.T.O. DESIGNATION M 233 THE SLOPE OF THE FILL IN SHALL BE COVERED WITH RIPRA TO THE EXTENT SHOW PLAN SHEET AND IN THE ABUTI SLAB FALSEWORK SHALL BE SUBSTRUCTURE UNLESS AN ALT BY THE ENGINEER. THE UPPER LIMITS OF "EXC. B-8-119" SHALL BE THE EXISTING THE ENGINEER. THE DYPER LIMITS OF "EXC. B-8-119" SHALL BE THE EXISTING THE ENGINEER. THE DYPER LIMITS OF "EXC. B-8-119" SHALL BE THE EXISTING THE EXISTING STRUCTURE, FO CONCRETE ABUTMENTS WITH A 3 THE BACKFILL OUANTITIES A SHOWN ON THE PLANS AND MAD UNANTITIES. "BACKFILL STRUCTUR BEAKFILL PLACED BEYOND PAY UNANTITIES. WALL BE INCIDENTA THE EXISTION BELOW THE ABUTM BACKFILL PLACED BEYOND PAY ONTOTCTIVE SURFACE TREAT SEALER IS TO BE APPLIED AS 3 BEVEL EXPOSED EDGES OF OTHERWISE. EXCAVATION BELOW THE ABUTMENT. EXCAVATION BELOW THE ABUTMENT. AT THE BACK FACE OF SUBS INCIDENTAL TO "REMOVING STRU- AT THE BACK FACE OF SUBS INCIDENTAL TO "REMOVING STRU- AT THE BACK FACE OF SUBS INCIDENTAL TO "REMOVING STRU- AT HE BACK FACE OF SUBS INCIDENTAL TO "REMOVING STRU- AT ABUTMENTS, CONCRETE THE SUBSTRUCTURES. COST OF SUBS INCIDENTAL TO "REMOVING STRU- AT ABUTMENTS, CONCRETE THE SUBSTRUCTURES AND ABUTMENT AT THE BACK FACE OF ABUTMENT AT ABUTMENTS, CONCRETE THE SUBSTRUCTURED WITH BACKFILL AT ABUTMENTS, CONCRETE THE ADUMENTS, SALL BE DOTE SOLVED AND SHALL BE DOTE SOLVED AND	OTES CALED SHALL ERWISE EE DIG SAR NC SAR NC STYPE SAR NON MENT E SUPF TERNAT CONCRE 23.6-F ARE BA Y NOT IENTS LIMITS AL TO TMENT SHOWN CONCR UTMENT CONCRE JCALLON CONCRE JCALLON CONCRE JCALLON CONCRE STRUC JCALLON CONCRE JCALLON CONCRE JCALLON CONCRE STRUC STRUC PECIFIC	BE EMBEDDED BE EMBEDDED SIGNIFIES THE T BAR NO. ANE SIGNIFIES THE T THE REQUIREM T OF THE REQUIREM T OF THE ABUT YY AND GEOTED THE GENERAL DETAILS. PORTED ON PILE TE METHOD IS A DN FOR STRUCT UNDLINE. 4. TO BE REMO TE DECK GIRDEI T. CLEAR ROAD SED ON THE PA REFLECT ACTUP PE A" REQUIRED WINGS FOR 3 FI SOR EXCEEDING EXCAVATION FO AND PIGMENTE IN DETAIL ON SETE ¾" UNLESS T AND ABUTMEL IVAL. GEOTEXTIN TOR AND EXTEN RUCTURES ARE S NEEDED TO BI TURE REMOVAL T BE PLACED E BY THE NEW S T UNDERWATER CORDANCE WITH CATIONS.	2" CLEAR D THE FIRST BAR SIZE. ENTS OF MENTS (TILE S OR THE PPROVED URES BRIDGE VED, IS A R BRIDGE ON WAY WIDTH. AY LIMITS AL PLACED O DIRECTLY PLAN DR STRUCTUD STRUCTUD S SHALL ID 2'-O'' NOT KNOWN. UILD NEW IS CONSIDER STING ABUTM SEFORE ABU' STRUCTURE SECTION	ES RES. RED MENT SHALL			
<u>×</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u>							8
V- -	NO. DA	ATE	REVISION			BY	
DETAIL WEB SIMILAR		STATE DEPARTMENT	OF WISCONS OF TRANSPO	IN DRTAT	ION		
	ST	RUCTURE	B-8-119)			
			DRAWN BY	ZSS	PLANS CK'D.	JCK	
L PLANS PREPARED BY		QUANTIT	ES	SHE	ET 2	OF 12	
Eau Claire, WI 54701		AND NOT	ES				



2/2/2022 PENTARI F









STATE PROJECT NUMBER

4474-03-71



PILE LAYOUT



* 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 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 \times 1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL













BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

BILL OF BARS





	NO.	D BAR	teo'd.	ЮТН	BAR	DLED	SERIES	1,990" COATED 1,740" UNCOATED
	BAR	COATE	NO. F	LEN	BENT	BUN	BAR	LOCATION
A	401		5	28-0	X			BODY @ PILES
A	402		10	2-3				BODY @ PILES
A	503		38	14-2	X			BODY VERT.
A	604		11	30-2				BODY HORIZ.
A	805		14	10-11	X			BODY HORIZ. @ WING B.F.
A	606		7	16-0				BODY HORIZ. BETW. WINGS B.F.
A	507	X	29	2-0				BODY DOWELS
A	508	X	20	15-8	X			WINGS 1 & 2 VERT.
A	509	X	12	12-2				WINGS 1 & 2 HORIZ. F.F.
Α	610	X	16	12-2				WINGS 1 & 2 HORIZ. B.F. & TOP
A	511	X	28	9-8	X			WINGS 1 & 2 VERT.
A	412	X	12	9-7				WINGS 1 & 2 HORIZ. E.F.
A	613	X	4	9-7				WINGS 1 & 2 HORIZ. E.F.
A	414	X	6	4-7				BODY VERT. END @ WINGS 1 & 2

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2/2/2022 PENTARI F







(WING 3 SHOWN - WING 4 SIMILAR)



STATE PROJECT NUMBER

4474-03-71



PILE LAYOUT

FOR PILE SPLICE DET



2/2/2022 PENTABLE:

8

2

B401			
10'-0"	→ <u>< 11"</u> →		
- - STD. 180° HOOK			
<u></u>	<u>B511</u>		
TAIL SEE SHEET 2.			8
	NO. DATE REVISION	BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
	STRUCTURE B-8-119		
	DRAWN BY CLP CK'D.	JCK	
NS PREPARED BY 133 Oakwood Hills Parkway ou Claire, WI 54701 ww.AyresAssociates.com	EAST ABUTMENT PILE LAYOUT & BILL OF BARS	OF 12	

2'-2" _{>|}<u>B503</u>

2'-11" <u>B508</u>

s NO.	ED BAR	REO'D.	ИСТН	F BAR	DLED	SERIES	2,010" COATED 1,740" UNCOATED
BAF	COATE	NO. F	LEN	BENT	BUN	BAR	LOCATION
3401		5	28-0	X			BODY @ PILES
3402		10	2-3				BODY @ PILES
3503		38	14-2	Х			BODY VERT.
3604		11	30-2				BODY HORIZ.
3805		14	10-11	Х			BODY HORIZ. @ WING B.F.
3606		7	16-0				BODY HORIZ. BETW. WINGS B.F.
3507	Х	29	2-0				BODY DOWELS
3508	Х	20	15-8	Х			WINGS 3 & 4 VERT.
3509	X	12	12-2				WINGS 3 & 4 HORIZ. F.F.
3610	X	16	12-2				WINGS 3 & 4 HORIZ. B.F. & TOP
3511	X	28	10-1	х			WINGS 3 & 4 VERT.
3412	X	12	9-7				WINGS 3 & 4 HORIZ. E.F.
3613	X	4	9-7				WINGS 3 & 4 HORIZ. E.F.
3414	X	6	4 - 7				BODY VERT. END @ WINGS 3 & 4
BENDING	; D	IMENSION	NS ARE	00	т	то	OUT OF BARS.

BILL OF BARS

ľ-9"

STATE PROJECT NUMBER



I:±45±450510 Calumet Cty Line Rd±Structures±CADD±Final±450510 sup.dgn



	B	ILL O	F BA	RS	5		4474-03-71
R NO.	ED BAR	REO'D.	NGTH	T BAR		SERIES	19,310" COATED
BAI	COAT	NO.	Ш	BEN	BU	BAR	LOCATION
S501	X	62	6-3	X			SLAB @ ABUT.
5502	х	62	3-7	X			SLAB @ ABUT.
51003	х	69	38-7		X		SLAB LONG. BOT.
S504	х	70	30-2				SLAB TRANS. BOT.
S505	х	45	30-2				SLAB TRANS. TOP
S406	х	37	44-2				SLAB LONG. TOP
S507	X	134	4-5	Х			SLAB @ PARAPET VERT.
S50 <mark>8</mark>	X	134	6-8	Х			PARAPET VERT.
S509	X	16	44-2				PARAPET HORIZ.
S510	X	42	5-0				SLAB TRANS. TOP @ EDGES

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

STATE PROJECT NUMBER

21'-0" 21 SPA. @ 1'-0" = 21'-0" \$505 20 SPA. @ 1'-0" = 20'-0" S510 AT EDGES OF DECK 2<u>//2</u> CL. <u>S501</u> S406 <u>S502</u> È \$505 È. <u>S504</u> م <u>/sioo3</u> 18" RUBBERIZED WATERPROOFING Ξ., ¾" BEVEL -4"×¾" FILLER (LENGTH OF ABUTMENT) € OF ABUT. 1'-3" 1'-3" 6" 31 SPA. @ 8" = 20'-8" S504 4"

PART LONGITUDINAL SECTION



CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION.

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.

TOP OF DECK ELEVATIONS

	LOCATION	€ OF W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF E. ABUT.
[N. EDGE OF SLAB	784.17	784.21	784.24	784.28	784.31	784.34	784.38	784.41	784.44	784.48	784.51
- [€ OF STRUCTURE	784.46	784.49	784.52	784.56	784.59	784.62	784.66	784.69	784.72	784.75	784.79
	S. EDGE OF SLAB	784.17	784.21	784.24	784.28	784.31	784.34	784.38	784.41	784.44	784.48	784.51

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

TOP OF SLAB ELEVATION AT FINAL GRADE MINUS SLAB THICKNESS EQUALS = TOP OF SLAB FLASEWORK ELEVATION

LOCATION	€ OF W. ABUT.	5/10 PTS.	€ OF E. ABUT.
N. EDGE OF SLAB			
€ OF STRUCTURE			
S. EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE \pounds OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR \pounds . RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



3/10/

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STATE PROJECT NUMBER

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-€ OF SPAN - SYM. ABOUT THIS €

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

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

SURVEY TOP OF SLAB ELEVATIONS

NO. DATE REVISION ΒY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-8-119 CLP PLANS CKD. JCK BY SHEET 11 OF 12 SUPERSTRUCTURE ARES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com DETAILS



EARTHWORK - NORTH COUNTY LINE ROAD - SW SHOULDER

		AREA (SF)			I	NCREMENTAL VOL (CY) (UNADJU	STED)		CUMULATI	/E VOL (CY)	
STATION	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	MASS ORDINATE
		MATERIAL							1.00	1.30	1.50	
					NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 8
46+66.6	4.21	0.00	0.48	0.00	0	0	0	0	0	0	0	0
47+00.0	52.91	0.00	34.68	0.00	35	0	22	0	35	29	0	6
47+38.9	13.70	0.00	42.68	34.55	48	0	56	25	83	69	38	-18
47+50.0	28.62	0.00	44.28	30.77	9	0	18	13	92	75	57	-33
					92	0	96	38				

EARTHWORK - NORTH COUNTY LINE ROAD - NW SHOULDER

		AREA (SF)			l	NCREMENTAL VOL (CY) (UNADJU	STED)		CUMULATIV	/E VOL (CY)	
STATION	CUT	UNUSABLE	FILL	MARSH EXC	CUT	UNUSABLE	FILL	MARSH EXC	CUT	EXPANDED	EXPANDED	MASS ORDINATE
		PAVEMENT MATERIAL				PAVEMENT MATERIAL				FILL	MARSH BACKFILL	
		MATERIAL							1.00	1.30	1.50	
					NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 8
47+38.9	4.16	0.00	0.55	0.00	0	0	0	0	0	0	0	0
47+50.0	5.21	0.00	27.08	0.00	2	0	6	0	2	8	0	-6
					2	0	6	0				

EARTHWORK - NORTH COUNTY LINE ROAD - MAINLINE

		AREA (SF	⁻)			INCREMENTAL VOL (CY)	(UNADJU	STED)		CUMULATI	/E VOL (CY)	
STATION	CUT	UNUSABLE	FILL	MARSH EXC	CUT	UNUSABLE	FILL	MARSH EXC	CUT	EXPANDED	EXPANDED	MASS ORDINATE
		PAVEMENT MATERIAL				PAVEMENT MATERIAL				FILL	MARSH BACKFILL	
		MATERIAL							1.00	1.30	1.50	
					NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 8
47+50.0	45.52	9.17	71.36	30.77	0	0	0	0	0	0	0	0
47+82.6	32.71	9.17	101.08	56.70	47	11	104	53	47	66	80	-99
48+00.0	26.24	9.17	103.55	62.57	19	6	66	38	66	103	137	-172
48+07.6	24.15	9.17	104.10	57.41	7	3	29	17	73	118	162	-206
48+32.6	16.41	9.17	109.83	55.67	19	8	99	52	92	179	240	-323
48+50.0	13.03	9.17	112.39	56.72	9	6	72	36	101	226	294	-414
48+57.6	13.80	9.17	115.23	61.13	4	3	32	17	105	246	320	-455
48+82.6	17.99	9.17	111.09	61.53	15	8	105	57	120	308	405	-584
49+00.0	23.72	9.17	123.82	67.72	13	6	76	42	133	352	468	-676
49+07.6	29.21	9.17	129.48	61.99	7	3	36	18	140	376	495	-719
49+50.0	66.11	9.17	151.07	74.65	75	14	220	107	215	523	656	-944
49+60.8	66.11	9.17	151.07	74.65	26	4	60	30	241	562	701	-1,000
B-08-0119												
50+25.3	27.23	9.17	76.77	42.57	0	0	0	0	241	562	701	-1,000
50+50.0	27.23	9.17	76.77	42.57	25	8	70	39	266	602	759	-1,074
					266	80	969	506				

	Notes:	
	1 - CUT	CUT II
	2 - UNSUABLE PAVEMENT MATERIAL	THIS I
	3 - FILL	THIS I
	4 - EXPANDED MARSH BACKFILL	WILL
	8 - MASS ORDINATE	CUT -
	8 - MASS ORDINATE	MASS
1	COMPUTER EARTHWORK DATA	

9

Y LINE ROAD COUNTY: CALUMET

NCLUDES UNUSABLE PAVEMENT MATERIAL				
DOES NOT SHOW UP IN CROSS SECTIONS				
DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME				
BE BACKFILLD WITH GRANULAR BACKFILL				
UNUSABLE PAVEMENT - (FILL * FILL FACTOR)				
S ORDINATE DOES NOT INCLUDE MARSH EXCAVATION				
SHEET: E				

		AREA (SF))			INCREMENTAL VOL (CY)	(UNADJU:	STED)		CUMULATI	/E VOL (CY)	
STATION	CUT	UNUSABLE	FILL	MARSH EXC	CUT	UNUSABLE	FILL	MARSH EXC	CUT	EXPANDED	EXPANDED	MASS ORDINATE
		PAVEMENT MATERIAL				PAVEMENT MATERIAL				FILL	MARSH BACKFILL	
		MATERIAL							1.00	1.30	1.50	
					NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 8
50+50.0	1.43	0.00	33.44	18.18	0	0	0	0	0	0	0	0
50+78.4	3.26	0.00	31.12	0.00	2	0	34	10	2	31	15	-42
51+00.0	3.79	0.00	30.10	0.00	3	0	24	0	5	62	15	-70
51+03.4	3.83	0.00	29.78	0.00	0	0	4	0	5	68	15	-76
51+28.4	4.12	0.00	27.58	0.00	4	0	27	0	9	103	15	-107
51+50.0	11.29	0.00	15.05	0.00	6	0	17	0	15	125	15	-123
51+53.4	12.61	0.00	12.32	0.00	2	0	2	0	17	127	15	-123
51+78.4	5.31	0.00	2.67	0.00	8	0	7	0	25	137	15	-125
52+00.0	6.00	0.00	1.05	0.00	5	0	1	0	30	138	15	-121
52+03.4	6.05	0.00	1.10	0.00	1	0	0	0	31	138	15	-120
52+44.3	6.27	0.00	0.77	0.00	9	0	1	0	40	139	15	-112
					40	0	117	10				

EARTHWORK - NORTH COUNTY LINE ROAD - SE SHOULDER

EARTHWORK - NORTH COUNTY LINE ROAD - NE SHOULDER

		AREA (SF)				INCREMENTAL VOL (CY)	(UNADJU	STED)		CUMULATI	/E VOL (CY)	
STATION	CUT	UNUSABLE	FILL	MARSH EXC	CUT	UNUSABLE	FILL	MARSH EXC	CUT	EXPANDED	EXPANDED	MASS ORDINATE
		PAVEMENT MATERIAL				PAVEMENT MATERIAL				FILL	MARSH BACKFILL	
		MATERIAL							1.00	1.30	1.50	
					NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 8
50+50.0	2.39	0.00	43.33	24.39	0	0	0	0	0	0	0	0
50+78.4	3.87	0.00	17.92	19.32	3	0	32	23	3	12	35	-39
51+00.0	14.50	0.00	9.82	0.00	7	0	11	8	10	16	47	-46
51+03.4	19.17	0.00	8.77	0.00	2	0	1	0	12	17	47	-45
51+28.4	23.02	0.00	1.70	0.00	20	0	5	0	32	23	47	-32
51+50.0	14.06	0.00	1.38	0.00	15	0	1	0	47	25	47	-18
51+53.4	16.44	0.00	1.65	0.00	2	0	0	0	49	25	47	-16
51+78.4	19.49	0.00	2.18	0.00	17	0	2	0	66	27	47	-2
52+00.0	25.20	0.00	1.96	0.00	18	0	2	0	84	30	47	14
52+03.4	26.12	0.00	1.95	0.00	3	0	0	0	87	30	47	17
52+44.3	34.94	0.00	0.00	0.00	46	0	1	0	133	31	47	62
52+50.0	35.54	0.00	0.00	0.00	7	0	0	0	140	31	47	69
53+00.0	6.37	0.00	1.21	0.00	39	0	1	0	179	33	47	106
53+16.3	6.64	0.00	0.21	0.00	4	0	0	0	183	33	47	110
•	•				183	0	56	31				•

Notes:	
1 - CUT	CUT I
2 - UNSUABLE PAVEMENT MATERIAL	THIS
3 - FILL	THIS
4 - EXPANDED MARSH BACKFILL	WILL
8 - MASS ORDINATE	CUT -
8 - MASS ORDINATE	MASS

9

COMPUTER EARTHWORK DATA

	NCLUDES UNUSABLE PAVEMENT MATERIAL
	DOES NOT SHOW UP IN CROSS SECTIONS
	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
13	BE BACKFILLD WITH GRANULAR BACKFILL
	- UNUSABLE PAVEMENT - (FILL * FILL FACTOR)
	S ORDINATE DOES NOT INCLUDE MARSH EXCAVATION
<u> </u>	

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WISDOT/CADDS SHEET 49

PLOT DATE : 7/21/2022 1:50 PM




^{7/21/2022 1:50} PM

















Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

