

FILE NAME : G:\2019-PROJ\19258046\C3D\SHEETSPLAN\010101_TI.DWG

JACOB FRIBERG

	FEDERAL PROJE	СТ
STATE PROJECT	PROJECT	CONTRACT
8337-00-70	WISC 2022211	1
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1		
	ACCEPTED FOR	
	TOWN OF BARN	ES
		ļ
	Date 0-14 4/10-14 (Signature and T	Title of Official)
	· · ·	
	ORIGINAL PLANS PREPA	RED BY
	NN SCONO	Rep.
	All Season and a season of the	V Bay
	JACOB A.	. 4
	E-43328) a
	RICE LAKE	
		831
	10/10/00 Antes	T.
	DATE: 11 94	neer Signature)
	DEPARTMENT OF TRANSPO	ORTATION
	PREPARED BY	
	Surveyor MORGAN &	PARMLEY
	Designer COOPER EN	
	Project Manager PAOLA GR Regional Examiner TOU YA	NG, PE
	Regional SupervisorTYLER RON	GSTAD, PE 4
NOES	APPROVED FOR THE DEPARTMENT LA	Am -
	DATE: 10/19/01 1 Couch (Signat	ure)
JU 1ZA.		

LIST OF STANDARD ABBREVIATIONS

LT.

LS

MH

N NC

PAVT

PC

PE

ΡI

ΡL

PP

PT

RCCP

RD

RHF

RR RT.

R/W

SAN S

SDD SE

SF.

SQ. SS.

SY

STH

STA.

SW

TEL

TEMP

TLF

TYP

Т TC

ST

LEFT

MANHOLE

NORTH

2

ABUT	ABUTMENT
AC	ACRES
AGG	AGGREGATE
AH	AHEAD
ADT	AVERAGE DAILY TRAFFIC
AVG.	AVERAGE
ASPH	ASPHALTIC
BK.	ВАСК
BM	BENCHMARK
Δ	CENTRAL ANGLE OR DELTA
<u>م</u> د/ا	
C & G	CURB AND GUTTER
CABC	CRUSHED AGGREGATE
	BASE COURSE
CONC.	CONCRETE
COR	CORNER
CORR	CORRUGATED
CSCP	CORRUGATED STEEL
	CULVERT PIPE
CSPA	PIPE ARCH
CTH	COUNTY TRUNK HIGHWAY
CP.	CULVERT PIPE
CY	CUBIC YARD
CWT.	HUNDREDWEIGHT
DIA	DIAMETER
D	DEGREE OF CURVE
FRS	
FLEVFL	FI EVATION
ELEC.	ELECTRIC
EXC	EXCAVATION
EXIST	EXISTING
E	EAST
FE	FIELD ENTRANCE
FF. EL E/I	
FS	FULL SUPERELEVATION
G	GARAGE
GN	GRID NORTH
Н	HOUSE
HYD	HYDRANT
I	INTERSECTION ANGLE
INTERS	INTERSECTION
INV. IP	
LC	LONG CHORD OF CURVE
LF	LINEAR FOOT
LHF	LEFT HAND FORWARD

LHF	LEFT	HAND	FOR\

LENGTH OF CURVE 1

LUMP SUM NORMAL CROWN PAVEMENT POINT OF CURVATURE PRIVATE ENTRANCE POINT OF INTERSECTION PROPERTY LINE POWER POLE POINT OF TANGENCY RANGE RADIUS REINFORCED CONCRETE CULVERT PIPE

ROAD RFRAR REINFORCEMENT BAR REQD REQUIRED RDWY ROADWAY RIGHT HAND FORWARD REFERENCE LINE RL, R/L RAII ROAD RIGHT RIGHT-OF-WAY SOUTH SANITARY SEWER STANDARD DETAIL DRAWING SUPER ELEVATION SQUARE FEET SHLDR SHOULDER SPECIFICATIONS SPECS SQUARE STORM SEWER SOLIARE YARD STATE TRUNK HIGHWAY STREET STATION SIDEWALK TANGENT TOP OF CURB TRANSIT LINE TL, T/L TELEPHONE TEMPORARY TEMPORARY LIMITED EASEMENT TYPICAL

- UNITED STATES HIGHWAY USH UG UNDERGROUND V DESIGN SPEED
- VAR. VARIABLE VERTICAL
- VFRT YD YARD

UTILITY CONTACTS

DAHLBERG LIGHT & POWER ATTN: DEANICE ZOLTAK 9221 E MAIN STREET P.O. BOX 300 SOLON SPRINGS, WI 54873 PHONE: (715) 378-2205 EMAIL: deanicez@dahlberglightandpower.com

ELECTRIC

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE



OTHER CONTACTS

DESIGN CONSULTANT

COOPER ENGINEERING JACOB FRIBERG 2600 COLLEGE DRIVE RICE LAKE, WI 54868 PHONE: (715) 234-7008 EMAIL: jfriberg@cooperengineering.net

TOWN OF BARNES

TOWN CHAIRMAN TOM RENZ 3360 COUNTY HIGHWAY N BARNES, WI 54873 PHONE: (715) 795-2782 EMAIL: TRenz@barnes-wi.com WDNR/WISDOT LIAISON SHAWN HASELEU 810 W. MAPLE STREET SPOONER, WI 54801 PHONE: (715) 635-4228 EMAIL: shawn.haseleu@wisconsin.gov

WDNR REGIONAL CONTACT

COMMUNICATIONS

ATTN: GARIN MAYER

43705 US HWY 63

CABLE, WI 54821

PHONE: (715) 798-3303

EMAIL: gmayer@norvado.com

P.O. BOX 67

NORVADO

MIDDLE EAU CLAIRE LAKES DAM OWNER

BAYFIELD COUNTY MARK ABELES-ALLISON COUNTY ADMINISTRATOR 117 E. 6TH STREET P.O. BOX 878 WASHBURN, WI 54891 PHONE: (715) 373-6181 EMAIL: mark.abeles-allison@bayfieldcounty.wi.gov

GENERAL NOTES:

REMOVAL BY THE ENGINEER

ACCESS TO ALL RESIDENCES & SIDE ROADS SHALL BE MAINTAINED DURING CONSTRUCTION.

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

		H)	DROLOGIC SC	DIL GRO	UP				
		А			В			C	
	SI	.OPE RA	NGE (%)	SL	OPE RAI	NGE (%)	SL	OPE RA	NGE (%)
AND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
OW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50
/IEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37
IDE SLOPE- TURF			.25 .32			.27 .34			.28 .36
AVEMENT:									
SPHALT			.7095						
CONCRETE			.8095						
BRICK			.7080						
RIVES, WALKS			.7585						
OOFS			.7595						
RAVEL ROADS, SH	IOULDEF	RS	.4060						
OTAL PROJECT AR	EA = 0.2	3 ACRE	S						

PROJECT NO: 8337-00-70 HWY: SOUTH SHORE ROAD

COUNTY: BAYFIELD

PLOT DATE : PLOT BY : 11/10/2021 12:08 PM

GENERAL NOTES

JACOB FRIBERG

PLOT NAME

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

SOUTH SHORE ROAD WILL BE CLOSED DURING CONSTRUCTION AND NO DETOUR ROUTE WILL BE MARKED.

RUNOFF COEFFICIENT TABLE

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.15 ACRES

SHEET

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PLOT BY : JACOB FRIBERG PLOT DATE : 11/10/2021 12:46 PM





LAYOUT NAME - Project Overview

PLOT DATE : 11/10/2021 2:02 PM JACOB FRIBERG



Estimate Of Quantities

Item Item Description Unit Total Oty 0012 203.0270 Removing Shutuler Over Valencey Debin Capture (shutcher) (5): B-04.4113 EADH 1.000 0016 204.0101 Removing Shutuler Over Valencey Debin Capture (shutcher) (5): B-04.4113 EADH 1.000 0018 205.1000 Eastern Shutuler Storger (shutcher) (5): B-04.1124 ES 2.000 440.000 0110 215.0100 Base Aggregate Demis 34-40-00 EACH 1.000 440.000 0111 Storger Demis 34-40-00 EACH 1.000 800.000 0101 Storger Demis 34-40-00 TON 375.000 800.000 0101 Storger Demis 34-40-00 TON 375.000 800.001 0225 Storger Demis 34-40-00 TON 375.000 800.001 026 Storger Demis 34-40-00 TON 375.000 800.001 027 Storger Demis 34-40-00 Total 300.001 800.001 028 Storger Demis 34-40-001 Storger Demis 34-40-001 15.000 0204 Storger Demis 34-40-001						8337-00-70	
0002281.0270Removing Structure Over Materiary Dechs Capture (shructure) 01 B-04-0413FACH1.0000006205.0100Excavation CommonCY2.20.00000170Excavation CommonCY2.20.00000180Excavation CommonFACH1.00000180Excavation CommonFACH1.00001120Excavation CommonFACH1.00001120Excavation CommonFACH1.00001120Excavation CommonFACH1.00001120Excavation CommonFACH1.00001120Excavation CommonFACH1.00001120Excavation CommonFACH1.00001120Excavation CommonFACH1.00001120Excavation CommonFACH1.00001220FACINOCommon Maxime PlantameFY1.60001221FACINOCommon Maxime StructureFY1.60001221FACINOCommon Maxime StructureFY1.60001221FACINOCommon Maxime StructureFY1.60001221FacinoCommon Maxime StructureFY1.60001221FacinoFACINOFY1.60001231Premetasse Carlier Type I 28-IntoFY1.60001241FacinoFY1.6001.60001241FacinoFY1.6001.60001241FacinoFY1.6001.60001241FacinoFY1.6001.600012	Line	Item	Item Description	Unit	Total	Qty	
0004 240.0165 Removing Concrete Sidewalk SY 8.000 0005 250.100 Econvalue Econvalue US 1.000 0005 250.100 Econvalue Total 4.000 4.000 0012 210.100 Econvalue Total 4.000 4.000 0012 213.010 Finishing StateWay (project) 01.837.40-70 EACH 1.000 4.000 0013 S50.110 Base Aggregate Dones 01-4n-th TON 875.000 550.000 0024 450.010 Aprinter Mannes Despis SY 50.000 550.000 0024 550.200 Prostreas State Reinforement HS Structures LB 8.850.000 8.550.000 0025 550.200 Bars State Reinforement HS Structures LB 4.140.000 4.000 0026 550.200 Bars State Reinforement HS Structures LB 4.140.000 4.000 0026 556.2000 Bars State Reinforement HS Structures LF 4.140.00 4.000 0026 556.2005 Basen agg	0002	203.0270	Removing Structure Over Waterway Debris Capture (structure) 01. B-04-0413	EACH	1.000	1.000	
0006 205.0100 Exeaution Common CY 22.000 22.0000 0010 Exeaution Contuner Nighes (inclure) (11.94-0124 L 0.000 440.000 0011 Bise Aggraphic Dens 34-Inch TON 440.000 440.000 0011 Bise Aggraphic Dens 34-Inch TON 80.00 80.000 0011 Bise Aggraphic Dens 114-Inch TON 87.000 35.000 0011 Ashint: Straface TON 87.000 35.000 0021 450.005 Asphalt: Straface ST. 15.000 0022 822.010 Concrete Meanry Singlas ST. 16.000 0023 850.000 Bis Singlas Dense Tatanni ST. 16.000 14.000 0024 850.000 Bis Singlas Dense Reinforcement HS Coand Structures Bis Singlas Dense Reinforcement HS Coand Structures Bis Singlas Dense Reinforcement HS Coand Structures 0036 950.000 Bis Singlas Dispiration Structures (10.844/174) EACH 10.000 0036 950.000 Bis Singlas Dispiration Structures EACH 10.000 <t< td=""><td>0004</td><td>204.0155</td><td>Removing Concrete Sidewalk</td><td>SY</td><td>8.000</td><td>8.000</td><td></td></t<>	0004	204.0155	Removing Concrete Sidewalk	SY	8.000	8.000	
0000 2005 1000 Exacution for Shucture Pripe A TON 4440 000 4400 000 0101 215 0100 Finishing Readway (project) 01. 8337-00-70 EACH 410.000 410.000 0101 305 0100 Finishing Readway (project) 01. 8337-00-70 EACH 410.000 410.000 0101 305 0101 Bask Aggregate Denas 344-0h TON 835.000 555.000 0102 455.0151 Asphiltic Surface SY 150.000 150.000 0102 505.0100 Concrete Manony Eridge SY 150.000 150.000 0102 505.0200 Protective Surface Teatment SY 150.000 162.000 0102 505.0200 Bard Standorcoment 1KS Stuckues LB 1430.000 1400.000 0103 Stot Advandorcoment 1KS Stuckues LB 1430.000 1400.000 0104 Stot Standorcoment 1KS Stuckues LB 1430.000 1400.000 0105 Stot Advandorcoment 1KS Stuckues LB 1430.000 1400.000 0104 Stot Standorcoment 1KS S	0006	205.0100	Excavation Common	CY	220.000	220.000	
0110210 100Finking Reading Standor, 70FAR440 000440 0000111255 010Finking Reading Vigotion (353 700-70)FAR100010000151355 010Bace Aggregate Dense 314-InchTON875 000357 0000161455 015Asphalle StrateTON875 000357 0000171455 016Asphalle StrateTON875 000357 0000182455 016Asphalle StrateTON875 000355 0000182455 016Asphalle StrateStrate100010000182522 320Piperanet Strates StateStrates State580 0058 5000182522 321Piperanet Strates StateStrates State580 0058 550 00018258 580 FebruarisStrates State100010000183557 00Strates StateStrates State10001000018459 580 FebruarisStrates State1100011000018459 580 FebruarisStrates State58 580 Februaris58 580 Februaris018450 500 FebruarisStrates State1100011000018450 500 FebruarisStrates State58 500018450 500 FebruarisState1100011000018450 500 FebruarisState1100011000018450 500 FebruarisState1100011000018450 500 FebruarisState1100011000018450 500 Februaris50 500 Fe	8000	206.1000	Excavation for Structures Bridges (structure) 01. B-04-0124	LS	1.000	1.000	
0112 213.010 Finaling Readway (rouged) 01.8337.0070 EACH 0.000 0.000 0116 Base Aggregate Dense 31.44-Inch TON 87.000 87.000 0116 M55.012 Base Aggregate Dense 31.44-Inch TON 35.000 0120 Asphaltic Flumes SY 145.000 15.000 0121 S02.010 Concrete Meanony Bridges SY 145.000 145.000 0122 S02.010 Concrete Meanony Bridges SY 150.000 145.000 0123 S02.0201 Protective Surface Treatment SY 50.000 85.000 0124 S02.0201 Bar Steel Reinforcement HS coated Structures LB 6.560.000 85.000 0135 S05.0010 Bar Steel Reinforcement HS coated Structures LB 14.900.000 14.900.000 0136 S05.0010 Bar Steel Reinforcement HS coated Structures LB 14.900.000 10.000 0136 S05.0010 Bar Steel Reinforcement HS coated Structures LB 14.900.000 14.900.000 0136	0010	210.1500	Backfill Structure Type A	TON	440.000	440.000	
0014 386.010 Base Aggragate Danes 141-Inch TON 870.000 875.000 0018 Base Aggragate Danes 141-Inch TON 375.000 375.000 0018 Asphalte Surface Earlier TON 375.000 355.000 0022 450.010 Concrete Mascory Bridges CY 15.000 150.000 0023 550.2010 Concrete Mascory Bridges SY 152.000 150.000 0026 550.321 Pigmented Surface Seater SY 52.000 500.000 0033 550.400 Bristell Reinforcement HS Structures LB 14.900.000 4.900.000 0335 550.400 Bristell Reinforcement HS Structures LB 14.900.000 4.000 0336 550.232 Stand Membrane Waterpooling LF 4.000 4.000 0335 550.400 Stere Electrone Non-Laminated LF 4.000 4.000 0346 560.206 Restructure Membrane Waterpooling LF 4.000 4.000 0350 Store Electrone Naggate Electrone Naggate Elec	0012	213.0100	Finishing Roadway (project) 01. 8337-00-70	EACH	1.000	1.000	
0016 305.0120 Base Aggregate Lense 1 1/4-Inch TON 375.000 0016 465.0316 Asphalts Furnes SY 15.000 0022 562.0316 Asphalts Furnes SY 146.000 0024 562.3300 Protective Surface Treatment SY 59.000 0025 552.3201 Protective Surface Treatment SY 59.000 0026 552.3102 Protective Surface Treatment LF 250.000 0028 552.000 Bar Steel Reinforcement HS coated Structures LB 8.550.000 0038 561.000 Bar Steel Reinforcement HS coated Structures LB 14.000 14.000 0038 561.000 Roberized Membrane Waterpoofing SY H 14.000 14.000 0044 601.057 Concrete Cuth & Super State Reinforcement HS coated Structures SF H 10.000 150.000 0044 601.057 Concrete State Reinforcement HS coated Structures SF H 10.000 160.000 0044 601.057 Concrete Strue State Structures of H 11.000 150.000	0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	80.000	80.000	
0016 465.010 Apphaline Surface Surface TON 35.000 355.000 0024 562.0100 Concretie Masonry Bridges CY 146.000 146.000 0024 502.3100 Protective Wastnee Treatment SY 162.000 162.000 0036 502.3210 Progenetid Surface Treatment SY 162.000 255.000 0037 505.0400 Bar Sheel Fachroscenett HS Structures LB 14.900.000 14.900.000 0038 505.6400 Bar Sheel Fachroscenett HS Conted Structures LF 14.000 14.000 0038 505.6400 Steel Diaphrages (structure) 01.8-04.0124 EACH 4.000 14.000 0038 513.700 Railing Sheel Type C1 LF 14.000 14.000 0040 516.050 Concrete Curit System Hathronoring SY 15.000 15.000 0041 601.057 Concrete Steps SY 35.000 35.000 0042 601.1050 Concrete Steps SY 35.000 35.000 0043	0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	375.000	375.000	
0202 456.0316 Asynamic Furmes SY 15.000 15.000 022 502.310 Concrete Masonry Bridges SY 152.000 1452.000 0263 502.310 Prometed Surface Senier SY 152.000 1562.000 0263 503.0128 Preatressad Criter Type 12Hanch LF 295.000 285.000 0303 556.0608 Bar Steef Reinforsement HS Stockures LB 8.560.000 8.650.000 0303 556.0608 Bearl Steef Reinforsement HS Coated Structures LB 4.000 4.000 0303 556.0608 Bearl Steef Reinforsement HS Coated Structures LF 14.000 14.000 0304 556.6608 Bearl Steef Reinforsement HS Coated Structures LF 14.000 140.000 0304 556.6608 Bearl Steef Structures SF 15.000 15.000 0304 556.6608 Bearl Steef Structures SF 15.000 16.000 0404 601.0557 Concrete Steps SF 15.000 15.000 0566.	0018	465.0105	Asphaltic Surface	TON	35.000	35.000	
0122 502.0100 Concrete Masoning Dridges OY 146.000 148.000 0284 502.3210 Projenented Surface Treatment SY 152.000 152.000 0285 503.1318 Prantessed Grider Type 122.hrch LF 258.000 58.550.000 0335 556.0400 Bar Sheel Reinforcement HS Coded Structures LB 14.400.00 140.000 0334 556.300 Bar Sheel Reinforcement HS Coded Structures LB 14.400.00 140.000 0335 556.400 Barting Skeel Type C1 LF 140.000 140.000 0345 556.300 Barting Skeel Type C1 LF 140.000 140.000 0346 566.400 Skein Diag Skei Type C1 LF 40.000 140.000 0346 660.404 Concrete Skeps distructures SF 15.00 15.00 0346 660.200 Concrete Skeps distructures SF 15.00 15.00 0346 660.200 Ripra Medium CY 10.00 80.00 0346 600.200	0020	465.0315	Asphaltic Flumes	SY	15.000	15,000	
024 502.200 Projective Surface Treatment SY 182.000 182.000 028 503.2178 Presentes Surface Sealer SY 58.000 58.000 028 503.0128 Presentes Surface Sealer LB 8.550.000 158.000 028 566.000 Bar Steel Reinforcement HS Catad Structures LB 14.400.000 038 566.200 Steed Exploring Instructures LB 14.400.000 038 566.400 Steed Exploring Instructures LB 14.400.000 038 566.400 Steed Exploring Instructures LB 14.400.00 140.000 038 566.400 Ruing Steel Type C1 LF 40.00 40.00 0404 661.0105 Concrete Varb Steed Heartmane Waterproofing SV 11.00 11.000 0424 601.0105 Concrete Varb Steed Steiner Steed Steiner Steed Steiner Steed Steed Steiner Steed	0022	502.0100	Concrete Masonry Bridges	CY	146 000	146.000	
502.3210 Prignented Surtice Sealer SY 59.000 59.000 0028 503.012 Prestressed Girder Type I 28.hnh LF 295.000 295.000 0031 563.0400 Bar Steel Reinforcement HS Conted Structures LB 8.500.00 4.500.000 0032 503.0400 Bar Steel Reinforcement HS Conted Structures LB 14.900.000 14.900.000 0038 513.060 Rainforcement HS Conted Structures LB 14.900.001 14.900.000 0038 513.060 Rainforcement HS Conted Structures LF 14.0000 14.0000 0034 506.0400 Sileel Disphragms (duruchur) 1.8-04-0124 EACH 4.0000 4.0000 0044 516.0500 Rubbrized Menbrane Waterproofing SY 11.000 11.000 0044 601.0557 Concrete Subras Alunchurch SF 35.000 35.000 0054 606.0200 Riyrap Medium CY 80.000 80.000 0054 614.0150 Anchor Assemblies for Sieel Plate Beam Guard EACH 4.000 4.000	0024	502.3200	Protective Surface Treatment	SY	162,000	162,000	
D128 First Starsard Cinter Type 1 28-Inch IF 2.95.000 2.85.000 0035 955.0400 Bit Steel Reinforcement HS Coated Structures ILB 8.85.000 14.900.000 0034 950.6800 Bar Steel Reinforcement HS Coated Structures ILB 14.900.000 14.900.000 0035 956.400 Steel Dipatragms (structure) 01. B74-0124 EACH 14.000 14.000 0036 Steel Dipatragms (structure) 01. B74-0124 EACH 14.000 14.000 0036 Steel Dipatragms (structure) 01. B74-0124 EACH 140.000 14.000 0044 601.015 Concrete Curb Type A IF 140.000 16.000 0044 601.015 Concrete Stees Methane Weterprofing SF 15.000 15.000 0056 604.0400 Stee Dipatragm (structure) Anter Stees Methane Weterprofing SF 35.000 35.000 0056 604.0400 Stee Dipatragm (structure) Anter Stees Methane Met	0026	502.3210	Pigmented Surface Sealer	SY	59,000	59,000	
003 003 <td>0028</td> <td>503 0128</td> <td>Prestressed Girder Type I 28-Inch</td> <td>I F</td> <td>295.000</td> <td>295 000</td> <td></td>	0028	503 0128	Prestressed Girder Type I 28-Inch	I F	295.000	295 000	
0032 505 0800 Bar Steel Reinforcement HS Coated Structures LB 14,900 000 0034 506 2005 Bearing Pads Elastomeric Non-Laminated EACH 10.000 0036 506 000 Steel Daphragms (structure) 01. 8-0-4-0124 EACH 4.000 0038 513 7006 Raling Steel Type C1 LF 14 00.000 0040 516 300 Rubbertzeit Membrane Waterproofing SY 11.000 0042 601 0105 Concrete Curb Type A LF 25.000 0044 601 055 Concrete Gurb Type A SF 15.000 0046 602 0405 Concrete Sites and A-truch SF 35.000 0056 604 0400 Slope Paving Concrete SY 35.000 0056 612 0406 Pipe Underdrain Wataped 6-inch LF 15.000 0056 612 0406 Pipe Underdrain Wataped 6-inch LF 78.000 88.00 0056 614 200 MGS Thrie Beam Transition LF 78.000 80.00 0066 6112 0406 Pipe Underdrain Wataped	0030	505.0400	Bar Steel Reinforcement HS Structures	LB	8 550 000	8 550 000	
Concerned Concerned Field Concerned 0034 5064000 Steel Diaphragms (structure) 01: B-04-0124 EACH 4.000 0036 513.0500 Ruiling Steel Type C1 LF 14.000 140.000 0040 516.0500 Rubberized Membrane Waterproofing SY 11.000 140.000 0041 601.0557 Concrete Steeval & Gutter 6-Inch Sloped 36-Inch Type D LF 42.000 40.000 0044 601.0557 Concrete Steeval & Gutter 6-Inch Sloped 36-Inch Type D LF 43.000 15.000 0044 602.1500 Concrete Steepa SF 35.000 35.000 0056 664.4000 Stope Paving Concrete SY 35.000 10.000 0056 614.2000 Riprap Heavy CY 80.000 10.000 0056 614.2000 Riprap Heaving Transition LF 78.000 15.000 0056 614.2010 MGS Fundervain Transition LF 78.000 26.000 0056 614.2010 Moloneetrainial EAT EACH	0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	14 900 000	14 900 000	
Constraint Constraint Constraint Constraint Constraint 0038 564.00 Steel Diaphragms (structure) 01, B-44-024 EACH 4.000 4.000 0038 513.7008 Ralling Steel Type C1 LF 14.000 11.000 0045 516.500 Rubberzed Membrane Wateproofing SY 11.000 40.000 0044 601.0105 Concrete Curb Stutter 6-Inch Stoped 36-Inch Type D LF 40.000 40.000 0046 602.0405 Concrete Steps SF 53.000 35.000 0050 Gonzente Steps SF 35.000 35.000 0054 606.0200 Riprap Heary CY 80.000 80.000 0056 614.0403 Stope Paving Concrete EACH 4.000 4.000 0056 612.0406 Pipe Underdrain Wasped 6I-Inch LF 158.00 15.000 0056 614.0403 Autoreation LF 78.800 78.800 0066 619.000 Molitizations Forsion Controt EACH <td>0034</td> <td>506 2605</td> <td>Bearing Pads Elastomeric Non-I aminated</td> <td>EACH</td> <td>10,000</td> <td>10 000</td> <td></td>	0034	506 2605	Bearing Pads Elastomeric Non-I aminated	EACH	10,000	10 000	
Dock Mathemating functional provinces Exc. 1 Totol 1 Totol 1 0038 513.7000 Railing Stell Type C1 LF 10.000 110.00 0044 610.05 Concrete Curb Type A LF 25.000 25.000 0044 601.0557 Concrete Curb Stype A LF 40.000 40.000 0046 602.0400 Concrete Sidewalk A-Inch SF 15.000 15.000 0048 602.1600 Concrete Sidewalk A-Inch SF 15.000 35.000 0050 604.0400 Slope Paving Concrete SY 35.000 35.000 0052 606.0300 Riprap Healyn CY 10.000 10.000 0056 612.0400 Pile Underdrain Wasped 6-Inch LF 18.000 4.000 0058 614.0100 Anchor Assemblies for Steel Plate Beam Guard EACH 4.000 4.000 0058 614.2610 MGS Guardral Terminal EAT EACH 1.000 1.000 0066 614.2610 Mointenance MGAL 5.000 </td <td>0036</td> <td>506.2000</td> <td>Steel Dianbragms (structure) 01 B-04-0124</td> <td>EACH</td> <td>4 000</td> <td>4 000</td> <td></td>	0036	506.2000	Steel Dianbragms (structure) 01 B-04-0124	EACH	4 000	4 000	
0000 515,000 Rubbrized Membrane Waterproofing SV 110,00 0040 516,000 Rubbrized Membrane Waterproofing SV 110,00 0044 601,0105 Concrete Curb SQuiter SI-Inch Stoped 36-Inch Type D LF 420,00 40,000 0046 602,0405 Concrete Steps SF 15,000 15,000 0048 602,100 Sipp Paving Concrete SY 35,000 35,000 0052 606,0200 Riprap Medium CY 80,000 80,000 0056 612,0406 Pipe Underdrain Wrapped 6-Inch LF 155,000 155,000 0056 614,2500 MGS Thrie Beam Transition LF 78,800 78,800 0066 614,2500 MGS Guardani Terminal EAT EACH 1,000 1,000 0066 614,2500 Mols Thrie Beam Transition LF 78,800 3,000 0072 624,500 Mailer ance And Repari of Haul Roads (project) 01,8337-00-70 EACH 1,000 1,000 0066 614,2500 Mobilization <td>0030</td> <td>513 7006</td> <td>Pailing Steel Type C1</td> <td>LACIT</td> <td>140.000</td> <td>140.000</td> <td></td>	0030	513 7006	Pailing Steel Type C1	LACIT	140.000	140.000	
Out-Solo Numerical and employed and solution Out-Solution Numerical and solution 0042 601.0557 Concrete Curb Type A LF 40.000 40.000 0044 601.0557 Concrete Sidewalk 4-Inch SF 15.000 15.000 0046 602.1500 Concrete Sidewalk 4-Inch SF 35.000 35.000 0050 604.0400 Slope Paving Concrete SF 35.000 10.000 0052 606.0200 Riprap Medium CY 10.000 10.000 0056 612.0406 Pice Underdrain Wrapped 6-Inch LF 15.000 155.000 0056 612.0406 Pice Underdrain Wrapped 6-Inch LF 78.800 78.800 0062 614.2610 MGS Thrie Beam Transition LF 78.800 78.800 0062 614.2610 MGS Guardrail Terminal EAT EACH 1.000 1.000 0064 618.100 Maintenance And Repair of Haul Roads (project) 01.8337-00-70 EACH 1.000 1.000 0066 619.1000 Mobi	0030	516.0500	Rubberized Membrane Waterproofing	SV	140.000	140.000	
U044 001/01/03 Contrate Curb & Guitter E-Inch Sloped 36-Inch Type D LF 24.000 40.000 0046 602.0405 Concrete Sidewalk 4-Inch SF 15.000 15.000 0048 602.0405 Concrete Sidewalk 4-Inch SF 35.000 35.000 0052 606.0200 Riprap Medium CY 10.000 10.000 0054 606.0300 Riprap Medium CY 10.000 80.000 0056 614.0150 Anchor Assemblies for Stele Plate Beam Guard LF 78.00 78.800 0056 614.2100 MS Strinte Beam Transition LF 78.80 78.800 0062 614.2500 MSS Thrite Beam Transition EACH 1.000 1.000 0064 618.0100 Maintenance And Repair of Haul Roads (project) 01.837-00-70 EACH 1.000 1.000 0066 619.1000 Mobilization LF 300.000 300.000 0072 628.0505 Salvaged Topsoil SY 250.000 300.000 0074 628.19	0040	510.0500 601.0105		51	25.000	25.000	
Odd4 601/0507 Concrete Science Added A-Inch SF 40.000 0046 602.405 Concrete Science Added A-Inch SF 35.000 0050 604.000 Sippa Medium SY 35.000 0052 606.0200 Riprap Medium CY 80.000 80.000 0056 612.006 Riprap Medium LF 78.000 80.000 0056 612.006 Riprap Medium LF 78.800 80.000 0056 612.006 MGS Thrie Beam Transition LF 78.800 4.000 0060 614.2500 MGS Guardrail Terminal EAT EACH 4.000 4.000 0066 614.2500 MGS Guardrail Terminal EAT EACH 1.000 1.000 0066 614.2500 Maintenance And Repair of Haul Roads (project) 01.8337-00-70 EACH 1.000 1.000 0066 614.2500 Salvaged Topsoil SY 250.000 5.000 0072 628.1504 Silt Fence LF 300.000 300.000	0042	601.0105	Concrete Curb Type A		25.000	25.000	
Outed Outed test statistical SF 15.000 15.000 0048 602.1500 Concrete Steps SF 35.000 35.000 0052 606.0200 Riprap Medium CY 10.000 10.000 0054 606.0300 Riprap Heavy CY 80.000 80.000 0056 612.0406 Pipe Underdrain Wrapped 6-Inch LF 155.000 4.000 0060 614.2500 MGS Thrie Beam Transition LF 78.800 78.800 0062 614.2510 MGS Guardrail Terminal EAT EACH 1.000 1.000 0064 619.1000 Mobilization EACH 1.000 1.000 0066 619.1000 Mobilization SY 250.000 250.000 0070 625.0500 Salvaged Topsoil SY 250.000 300.000 0074 628.1504 Silf Fence LF 300.000 300.000 0074 628.1504 Silf Fence forsion Control EACH 2.000 2.000	0044	601.0557	Concrete Curb & Guiler 6-Inch Sloped 36-Inch Type D		40.000	40.000	
Under D050 G04/400 Slope Paving Concrete SP 35.000 0050 G04/400 Slope Paving Concrete SY 35.000 0052 G06 6200 Riprap Medium CY 10.000 0056 612.0406 Pipe Underdrain Wrapped 6-Inch LF 155.000 0058 614.0150 Anchor Assemblies for Steel Plate Beam Guard EACH 4.000 4.000 0066 614.2500 MSS Thrie Beam Transition LF 78.00 78.800 0062 614.250 MSS Guardrail Terminal EAT EACH 1.000 1.000 0066 619.000 Maintenance And Repair of Haul Roads (project) 01.8337-00-70 EACH 1.000 1.000 0066 619.000 Waiter MGAL 5.000 250.000 0070 625.0500 Salvaged Topsoil SY 250.000 300.000 0071 628.1524 Sill Fence LF 300.000 300.000 0072 628.1504 Sill Fence Maintenance LF 300.000 300.000	0046	602.0405		SF	15.000	15.000	
U050 004,0400 Stope Parking Concrete SY 35,000 35,000 0052 606,0200 Riprap Medium CY 80,000 80,000 0054 606,0300 Riprap Medium CY 80,000 80,000 0056 612,0406 Pipe Underdrain Wrapped 6-Inch LF 155,000 155,000 0056 614,050 Anchor Assemblies for Steel Plate Beam Guard EACH 4,000 4,000 0062 614,2500 MGS Furie Beam Transition LF 78,800 78,800 0064 618,000 Maintenance And Repair of Haul Roads (project) 01,8337-00-70 EACH 1,000 1,000 0066 619,1000 Mobilization EACH 1,000 1,000 0070 625,0500 Salvaged Topsil SY 250,000 250,000 0072 628,1504 Silt Fence LF 300,000 300,000 0074 628,1502 Silt Fence Kaintenance LF 300,000 300,000 0076 628,1910 Mobilizations Enrege	0048	602.1500	Concrete Steps	SF	35.000	35.000	
U052 060.000 Riprap Heavy CY 10.000 0056 612.0406 Pipe Underdrain Wrapped 6-Inch LF 155.000 0058 614.0150 Anchor Assemblies for Steel Plate Beam Guard EACH 4.000 0060 614.2500 MGS Thrie Beam Transition LF 78.800 78.800 0062 614.2610 MGS Guardrail Terminal EAT EACH 1.000 1.000 0066 618.0100 Mobilization EACH 1.000 1.000 0066 619.1000 Mobilization EACH 1.000 1.000 0066 618.0100 Water MGAL 5.000 5.000 0070 625.0500 Salvaged Topsoil SY 250.000 250.000 0074 628.1505 Silt Fence Maintenance LF 300.000 300.000 0076 628.1905 Mobilizations Erosion Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class Type B CWT 0.200 0.200	0050	604.0400	Slope Paving Concrete	SY	35.000	35.000	
0054 610.0300 Hyprap Heavy CY 80.000 80.000 0056 612.0460 Pipe Underdrain Wrapped 6-Inch LF 155.000 155.000 0058 614.050 MGS Thrie Beam Transition LF 78.800 78.800 0062 614.250 MGS Guardrail Terminal EAT EACH 2.000 2.000 0064 618.0100 Maintenance And Repair of Haul Roads (project) 01.8337-00-70 EACH 1.000 1.000 0066 619.1000 Mobilization EACH 5.000 5.000 0070 625.0500 Salvaged Topsoil SY 250.000 250.000 0074 628.1505 Sill Fence Maintenance LF 300.000 300.000 0076 628.1905 Mobilizations Erosion Control EACH 2.000 250.000 0076 628.1905 Mobilizations Emergency Erosion Control EACH 2.000 250.000 0078 628.1905 Mobilizations Emergency Erosion Control EACH 2.000 250.000 0080 <t< td=""><td>0052</td><td>606.0200</td><td>Riprap Medium</td><td>CY</td><td>10.000</td><td>10.000</td><td></td></t<>	0052	606.0200	Riprap Medium	CY	10.000	10.000	
Outse 612.0400 Pipe Underdrain Wrapped E-Inch LF 155.000 0068 614.0150 Anchor Assemblies for Steel Plate Beam Guard EACH 4.000 0060 614.2500 MGS Thrie Beam Transition LF 78.800 78.800 0064 618.0100 Maintenance And Repair of Haul Roads (project) 01.8337-00-70 EACH 1.000 1.000 0066 619.1000 Mobilization EACH 1.000 1.000 0070 625.0500 Salvaged Topsoil SY 250.000 250.000 00714 628.1520 Silt Fence LF 300.000 300.000 0074 628.1520 Silt Fence Encirial EACH 2.000 250.000 0076 628.1905 Mobilizations Erosion Control LF 300.000 300.000 0076 628.1905 Mobilizations Erosion Control EACH 2.000 200 0076 628.1904 Mobilizations Erosion Control EACH 2.000 200 0080 628.2008 Erosion Mat	0054	606.0300	Riprap Heavy	CY	80.000	80.000	
0058 614.0150 Anchor Assemblies for Steel Plate Beam Guard EACH 4.000 0060 614.2500 MGS Thrie Beam Transition LF 78.800 0062 614.2610 MGS Guardrail Terminal EAT EACH 2.000 2.000 0064 618.0100 Mobilization EACH 1.000 1.000 0066 619.1000 Mobilization EACH 1.000 1.000 0070 625.0500 Salvaged Topsoil SY 250.000 250.000 0072 628.1504 Silt Fence LF 300.000 300.000 0074 628.1520 Silt Fence Maintenance LF 300.000 300.000 0078 628.1901 Mobilizations Erosion Control EACH 2.000 2.000 0082 628.1910 Mobilizations Erosion Control EACH 3.000 3.000 0084 630.0120 Erosion Mat Urban Class I Type B CWT 0.200 0.200 0084 630.0500 Seeding Mixture No. 20 LB 10.000 10.000 0084 630.0500 Seed Water MGAL	0056	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	155.000	155.000	
0060 614.2500 MGS furie Beam Transition LF 78.800 0062 614.2610 MGS Guardrail Terminal EAT EACH 2.000 0064 618.0100 Maintenance And Repair of Haul Roads (project) 01.8337-00-70 EACH 1.000 1.000 0066 619.1000 Mobilization EACH 1.000 1.000 0076 625.0500 Salvaged Topsoil SY 250.000 250.000 0077 628.1504 Silt Fence LF 300.000 300.000 0076 628.1502 Silt Fence Maintenance LF 300.000 300.000 0076 628.1505 Mobilizations Erosion Control EACH 3.000 300.000 0076 628.1910 Mobilizations Ernergency Erosion Control EACH 2.000 2.000 0080 628.2081 Erosion Mat Urban Class I Type B CWT 0.200 2.000 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 634.0512 Posts Wood 4x6-Inch X 12-FT	0058	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0062 614.2610 MGS Guardrail Terminal EAT EACH 2.000 0064 618.0100 Maintenance And Repair of Haul Roads (project) 01.8337-00-70 EACH 1.000 1.000 0066 619.1000 Mobilization EACH 1.000 1.000 0068 624.0100 Water MGAL 5.000 5.000 0070 625.0500 Salvaged Topsoil SY 250.000 250.000 0072 628.1504 Silt Fence LF 300.000 300.000 0076 628.1905 Mobilizations Ension Control EACH 2.000 250.000 0076 628.1905 Mobilizations Ension Control EACH 3.000 3.000 0076 628.1904 Mobilizations Ension Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class I Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 1.000 0086 634.0612 Posts Wood 4x6-Inch X 12-FT <td< td=""><td>0060</td><td>614.2500</td><td>MGS Thrie Beam Transition</td><td>LF</td><td>78.800</td><td>78.800</td><td></td></td<>	0060	614.2500	MGS Thrie Beam Transition	LF	78.800	78.800	
0064 618.0100 Maintenance And Repair of Haul Roads (project) 01. 8337-00-70 EACH 1.000 1.000 0066 619.1000 Mobilization EACH 1.000 1.000 0068 624.0100 Water MGAL 5.000 5.000 0070 625.0500 Salvaged Topsoil SY 250.000 250.000 0072 628.1504 Silt Fence LF 300.000 300.000 0076 628.1905 Mobilizations Enorgency Erosion Control EACH 2.000 250.000 0076 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class I Type B CWT 0.200 2.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0086 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0086 634.0612 <	0062	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000	
0066 619.1000 Mobilization EACH 1.000 1.000 0068 624.0100 Water MGAL 5.000 5.000 0070 625.0500 Salvaged Topsoil SY 250.000 300.000 0072 628.1504 Silt Fence LF 300.000 300.000 0074 628.1500 Mobilizations Erosion Control EACH 3.000 300.000 0078 628.1905 Mobilizations Erosion Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class I Type B SY 250.000 250.000 0082 629.0210 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Small Sign Supports EACH	0064	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8337-00-70	EACH	1.000	1.000	
0068 624.0100 Water MGAL 5.000 5.000 0070 625.0500 Salvaged Topsoil SY 250.000 250.000 0072 628.1504 Silt Fence LF 300.000 300.000 0074 628.1520 Silt Fence Maintenance LF 300.000 300.000 0076 628.1520 Mobilizations Erosion Control EACH 3.000 3.000 0078 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 0080 628.2028 Erosion Mat Urban Class I Type B CWT 0.200 2.000 0082 629.010 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II EACH 4.000 4.000 0092 638.2602 Removing Small Sign Suppots EACH	0066	619.1000	Mobilization	EACH	1.000	1.000	
0070 625.0500 Salvaged Topsoil SY 250.000 250.000 0072 628.1504 Silt Fence LF 300.000 300.000 0074 628.1520 Silt Fence Maintenance LF 300.000 300.000 0076 628.1920 Mobilizations Erosion Control EACH 3.000 3.000 0078 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class I Type B CWT 0.200 2.000 0082 629.0210 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Sinall Sign Supports EACH 4.000 4.000 0094 638.2001 Field Office Type B	0068	624.0100	Water	MGAL	5.000	5.000	
0072 628.1504 Silt Fence LF 300.000 0074 628.1520 Silt Fence Maintenance LF 300.000 0076 628.1905 Mobilizations Erosion Control EACH 3.000 0078 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class I Type B SY 250.000 2.000 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Small Sign Supports EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0096 643.0420 Traffic Control Barricades Type III EACH 1.00	0070	625.0500	Salvaged Topsoil	SY	250.000	250.000	
0074 628.1520 Silt Fence Maintenance LF 300.000 0076 628.1905 Mobilizations Erosion Control EACH 3.000 0078 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 0080 628.2008 Erosion Mat Urban Class I Type B SY 250.000 250.000 0082 629.0210 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0091 638.2602 Removing Signs Type II EACH 4.000 4.000 0092 638.2601 Field Office Type B EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0094 643.0420 Traffic Control Barricades Type	0072	628.1504	Silt Fence	LF	300.000	300.000	
0076 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 0078 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class I Type B SY 250.000 250.000 0082 629.0210 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 630.0500 Seed Water MGAL 7.000 7.000 0086 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 643.0420 Traffic Control Barricades Type III EACH 1.000 1.760.000	0074	628.1520	Silt Fence Maintenance	LF	300.000	300.000	
0078 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 0080 628.2008 Erosion Mat Urban Class I Type B SY 250.000 250.000 0082 629.0210 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 630.0500 Seed Water MGAL 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0076	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0080 628.2008 Erosion Mat Urban Class I Type B SY 250.000 250.000 0082 629.0210 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 630.0500 Seed Water MGAL 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III EACH 1.000 1.760.000	0078	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0082 629.0210 Fertilizer Type B CWT 0.200 0.200 0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 630.0500 Seed Water MGAL 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0080	628.2008	Erosion Mat Urban Class I Type B	SY	250.000	250.000	
0084 630.0120 Seeding Mixture No. 20 LB 10.000 10.000 0086 630.0500 Seed Water MGAL 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0082	629.0210	Fertilizer Type B	CWT	0.200	0.200	
0086 630.0500 Seed Water MGAL 10.000 10.000 0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0084	630.0120	Seeding Mixture No. 20	LB	10.000	10.000	
0088 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 7.000 7.000 0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0086	630.0500	Seed Water	MGAL	10.000	10.000	
0090 637.2230 Signs Type II Reflective F SF 37.000 37.000 0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	8800	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	7.000	7.000	
0092 638.2602 Removing Signs Type II EACH 4.000 4.000 0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0090	637.2230	Signs Type II Reflective F	SF	37.000	37.000	
0094 638.3000 Removing Small Sign Supports EACH 4.000 4.000 0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0092	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0096 642.5001 Field Office Type B EACH 1.000 1.000 0098 643.0420 Traffic Control Barricades Type III DAY 1,760.000 1,760.000	0094	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0098 643.0420 Traffic Control Barricades Type III DAY 1.760.000 1.760.000	0096	642.5001	Field Office Type B	EACH	1.000	1.000	
	0098	643.0420	Traffic Control Barricades Type III	DAY	1,760.000	1,760.000	

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			E	stimate Of C	uantities	
					8337-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0100	643.0705	Traffic Control Warning Lights Type A	DAY	3,080.000	3,080.000	
0102	643.0900	Traffic Control Signs	DAY	1,980.000	1,980.000	
0104	643.5000	Traffic Control	EACH	1.000	1.000	
0106	645.0111	Geotextile Type DF Schedule A	SY	50.000	50.000	
0108	645.0120	Geotextile Type HR	SY	125.000	125.000	
0110	645.0130	Geotextile Type R	SY	25.000	25.000	
0112	646.1020	Marking Line Epoxy 4-Inch	LF	540.000	540.000	
0114	650.4500	Construction Staking Subgrade	LF	168.000	168.000	
0116	650.5000	Construction Staking Base	LF	168.000	168.000	
0118	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	65.000	65.000	
0120	650.6500	Construction Staking Structure Layout (structure) 01. B-04-0124	LS	1.000	1.000	
0122	650.9910	Construction Staking Supplemental Control (project) 01. 8337-00-70	LS	1.000	1.000	
0124	650.9920	Construction Staking Slope Stakes	LF	168.000	168.000	
0126	690.0150	Sawing Asphalt	LF	52.000	52.000	
0128	715.0502	Incentive Strength Concrete Structures	DOL	1,460.000	1,460.000	
0130	999.1001.S	Seismograph	EACH	1.000	1.000	
0132	999.1501.S	Crack and Damage Survey	EACH	1.000	1.000	
0134	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 100+00	EACH	1.000	1.000	
0136	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0138	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0140	SPV.0090	Special 01. 16-Inch Auger-Cast Concrete Piles	LF	501.000	501.000	
0142	SPV.0090	Special 02. Chain Link Fence Polymer-Coated 4-Ft. B-04-0124	LF	28.000	28.000	

11/24/2021 08:19:03

Page 2

						SALVAGED/			EXPANDED	
						UNUSEABLE			FILL	MASS
					EXCAVATION	PAVEMEN⊤	AVAILABLE	UNEXPANDED	(FACTOR =	ORDINATE
					COMMON	MATERIAL	MATERIAL	FILL	1.25)	+/-
					205.0100					
CATEGORY	STATION	ТО	STATION	SIDE	CY	CY	CY	CY	CY	CY
0010	98+47	-	99+25	LT/RT	70	-	70	0	0	70
0010	99+25	-	99+74	LT/RT	80	15	65	10	15	50
0010	100+34	-	100+75	LT/RT	70	20	50	5	5	45
				TOTAL 0010	220	35	185	15	20	165

							BASE	BASE				CONCRETE				
						REMOVING	AGGREGATE	AGGREGATE			CONCRETE	CURB & GUTTER		CONCRETE		
						CONCRETE	DENSE	DENSE	ASPHALTIC	ASPHALTIC	CURB	6-INCH SLOPED	CONCRETE	SIDEWALK		SAWI
						SIDEWALK	3/4-INCH	11/4-INCH	SURFACE	FLUMES	TYPE A	36-INCH TYPE D	STEPS	4-INCH	WATER	ASPHA
				ASPHALT		204.0155	305.0110	305.0120	465.0105	465.0315	601.0105	601.0557	602.1500	602.0205	624.0100	690.01
				THICKNESS												
STATION	ТО	STATION	SIDE	(IN)	LAYERS	SY	TON	TON	TON	SY	LF	LF	SF	SF	MGAL	LF
98+47	-	99+25	LT/RT			-	65	160	-	-	-	-	-	-	2.1	-
99+25	-	99+74	LT/RT	2.5	1	-	15	130	20	-	-	-	-	-	1.7	22
100+24			UNDEF	R BRIDGE		8	-	-	-	-	25	-	-	-	-	-
100+34	-	100+45	LT/RT	2.5	1	-	-	20	4	-	-	-	-	-	0.3	-
100+45	-	100+65	LT/RT	2.5	1	-	-	40	7	-	-	40	35	15	0.5	-
100+65	-	100+75	LT/RT	2.5	1	-	-	25	4	15	-	-	-	-	0.4	30
						0	0.0	275	25	4 5	25	40	25	4 5		
					101AL 0010	8	80	375	35	15	25	40	35	15	5	52
	STATION 98+47 99+25 100+24 100+34 100+45 100+65	STATION TO 98+47 - 99+25 - 100+24 - 100+34 - 100+45 - 100+65 -	STATION TO STATION 98+47 - 99+25 99+25 - 99+74 100+24 - 100+45 100+34 - 100+45 100+45 - 100+65 100+65 - 100+75	STATION TO STATION SIDE 98+47 - 99+25 LT/RT 99+25 - 99+74 LT/RT 100+24 UNDEI UNDEI 100+34 - 100+65 LT/RT 100+65 - 100+75 LT/RT	ASPHALT THICKNESS STATION TO STATION SIDE (IN) 98+47 - 99+25 LT/RT 2.5 99+25 - 99+74 LT/RT 2.5 100+24 - UNDER BRIDGE 100+34 - 100+65 LT/RT 2.5 100+45 - 100+75 LT/RT 2.5	STATION TO STATION SIDE ASPHALT THICKNESS 98+47 70 STATION SIDE (IN) LAYERS 98+47 2 99+25 LT/RT 2.5 1 99+25 4 99+74 LT/RT 2.5 1 100+24 V UNDER BRIDGE 1 100+45 1 100+65 LT/RT 2.5 1 100+65 1 00+75 LT/RT 2.5 1 100+65 1 00+75 LT/RT 2.5 1 100+65 - 100+75 LT/RT 2.5 1	REMOVING CONCRETE SIDEWALK ASPHALT 204.0155 THICKNESS STATION TO STATION SIDE (IN) LAYERS SY 98+47 70 STATION SIDE (IN) LAYERS SY 98+47 70 99+25 LT/RT 2.5 1 - 99+25 99+74 LT/RT 2.5 1 - 100+24 UNDER BRIDGE 8 8 100+34 100+45 LT/RT 2.5 1 - 100+45 100+75 LT/RT 2.5 1 - 100+45 100+75 LT/RT 2.5 1 - 100+65 - 100+75 LT/RT 2.5 1 - 100+65 - 100+75 LT/RT 2.5 1 - - 100+65 - 100+75 LT/RT 2.5 1 - - - 100+65 - 100+75 LT/RT 2.5 1 - - -	BASE REMOVING AGGREGATE CONCRETE DENSE SIDEWALK 3/4-INCH 204.0155 305.0110 THICKNESS TON STATION TO STATION SIDE 98+47 - 99+25 LT/RT 2.5 98+47 - 99+25 LT/RT 2.5 100+24 UNDER BRIDGE 8 - 100+24 UNDER BRIDGE 8 - 100+45 100+45 LT/RT 2.5 1 - 100+45 100+75 LT/RT 2.5 1 - - 100+45 - 100+75 LT/RT 2.5 1 - - 100+65 - 100+75 LT/RT 2.5 1 - - - 100+65 - 100+75 LT/RT 2.5 1 - - - 100+65 - 100+75 LT/RT 2.5 1 - - -	BASE BASE BASE REMOVING AGGREGATE AGGREGATE CONCRETE DENSE DENSE SIDEWALK 3/4-INCH 11/4-INCH 204.0155 305.0110 305.0120 STATION TO SIDE (IN) LAYERS SY TON 98+47 - 99+25 LT/RT 2.5 1 655 160 99+25 - 99+74 LT/RT 2.5 1 15 130 100+24 UNDER BRIDGE 8 - - 20 20 - 20 100+34 - 100+65 LT/RT 2.5 1 - - 20 100+45 - 100+75 LT/RT 2.5 1 - - 20 100+65 - 100+75 LT/RT 2.5 1 - - 20 100+65 - 100+75 LT/RT 2.5 1 - - 25 100+65 - 100+75 LT/RT 2.5 <td>BASE BASE REMOVING AGGREGATE AGGREGATE CONCRETE DENSE DENSE ASPHALTIC SIDEWALK 3/4-INCH 11/4-INCH SUFACE BASE 305.0110 305.0120 465.0105 STATION TO SIDE (IN) LAYERS SY TON TON 98+47 - 99+25 LT/RT 2.5 1 - 65 160 - 99+25 - 99+74 LT/RT 2.5 1 - 15 130 20 100+24 UNDER BRIDGE 8 -<!--</td--><td>BASE BASE BASE REMOVING AGGREGATE AGGREGATE AGGREGATE CONCRETE DENSE DENSE ASPHALT ASPHALTC SIDEWALK 3/4-INCH 11/4-INCH SUFACE FLUMES STATION TO STATION SIDE (IN) LAYERS SY TON TON 465.0105 465.0315 98+47 - 99+25 LT/RT 2.5 1 - 65 160 - - 99+25 LT/RT 2.5 1 - 15 130 20 - 100+24 UNDER BRIDGE 8 - <td< td=""><td>BASE BASE REMOVING AGGREGATE AGGREGATE AGGREGATE AGGREGATE AGPHALTIC ASPHALTIC CUNCRETE CONCRETE DENSE DENSE DENSE ASPHALTIC ASPHALTIC CURBS SIDEWALK 3/4-INCH 11/4-INCH SUFACE FLUMES TYPEA ASPHALT L 204.0155 305.0110 305.0120 465.0105 465.0315 601.0105 THICKNESS THICKNESS TON TON TON SY IF 98447 99+25 LT/RT 2.5 1 - 655 160 - - - 99+25 Y VIDER BILDGE - 655 160 - - - - 100+24 UNDER BILDGE 88 -</td><td>BASE CONCRETE REMOVING AGGREGAT AGGREGAT CORCRETE CONCRETE CONCRETE CONCRETE CONCRETE DENSE DENSE ASPHALTIC ASPHALTIC CURB GURDS GGREGAT SURFACE FLUMES TYPEA 36-INCH TYPED STATION TO STATION SIDE (IN) LAYERS SY TON TON TON SY LF LF 98+47 - 99+25 LT/RT LT/RT 2.5 1 - 655 1600 - - - - - 99+25 LT/RT 2.5 1 - 655 1600 -<!--</td--><td>BASE BASE CONCRETE CON</td><td>STATION S SP E F<</td><td>STATION TO STATION SIDE LIVE LAYERS SIDE AGG AGG</td></td></td<></td></td>	BASE BASE REMOVING AGGREGATE AGGREGATE CONCRETE DENSE DENSE ASPHALTIC SIDEWALK 3/4-INCH 11/4-INCH SUFACE BASE 305.0110 305.0120 465.0105 STATION TO SIDE (IN) LAYERS SY TON TON 98+47 - 99+25 LT/RT 2.5 1 - 65 160 - 99+25 - 99+74 LT/RT 2.5 1 - 15 130 20 100+24 UNDER BRIDGE 8 - </td <td>BASE BASE BASE REMOVING AGGREGATE AGGREGATE AGGREGATE CONCRETE DENSE DENSE ASPHALT ASPHALTC SIDEWALK 3/4-INCH 11/4-INCH SUFACE FLUMES STATION TO STATION SIDE (IN) LAYERS SY TON TON 465.0105 465.0315 98+47 - 99+25 LT/RT 2.5 1 - 65 160 - - 99+25 LT/RT 2.5 1 - 15 130 20 - 100+24 UNDER BRIDGE 8 - <td< td=""><td>BASE BASE REMOVING AGGREGATE AGGREGATE AGGREGATE AGGREGATE AGPHALTIC ASPHALTIC CUNCRETE CONCRETE DENSE DENSE DENSE ASPHALTIC ASPHALTIC CURBS SIDEWALK 3/4-INCH 11/4-INCH SUFACE FLUMES TYPEA ASPHALT L 204.0155 305.0110 305.0120 465.0105 465.0315 601.0105 THICKNESS THICKNESS TON TON TON SY IF 98447 99+25 LT/RT 2.5 1 - 655 160 - - - 99+25 Y VIDER BILDGE - 655 160 - - - - 100+24 UNDER BILDGE 88 -</td><td>BASE CONCRETE REMOVING AGGREGAT AGGREGAT CORCRETE CONCRETE CONCRETE CONCRETE CONCRETE DENSE DENSE ASPHALTIC ASPHALTIC CURB GURDS GGREGAT SURFACE FLUMES TYPEA 36-INCH TYPED STATION TO STATION SIDE (IN) LAYERS SY TON TON TON SY LF LF 98+47 - 99+25 LT/RT LT/RT 2.5 1 - 655 1600 - - - - - 99+25 LT/RT 2.5 1 - 655 1600 -<!--</td--><td>BASE BASE CONCRETE CON</td><td>STATION S SP E F<</td><td>STATION TO STATION SIDE LIVE LAYERS SIDE AGG AGG</td></td></td<></td>	BASE BASE BASE REMOVING AGGREGATE AGGREGATE AGGREGATE CONCRETE DENSE DENSE ASPHALT ASPHALTC SIDEWALK 3/4-INCH 11/4-INCH SUFACE FLUMES STATION TO STATION SIDE (IN) LAYERS SY TON TON 465.0105 465.0315 98+47 - 99+25 LT/RT 2.5 1 - 65 160 - - 99+25 LT/RT 2.5 1 - 15 130 20 - 100+24 UNDER BRIDGE 8 - <td< td=""><td>BASE BASE REMOVING AGGREGATE AGGREGATE AGGREGATE AGGREGATE AGPHALTIC ASPHALTIC CUNCRETE CONCRETE DENSE DENSE DENSE ASPHALTIC ASPHALTIC CURBS SIDEWALK 3/4-INCH 11/4-INCH SUFACE FLUMES TYPEA ASPHALT L 204.0155 305.0110 305.0120 465.0105 465.0315 601.0105 THICKNESS THICKNESS TON TON TON SY IF 98447 99+25 LT/RT 2.5 1 - 655 160 - - - 99+25 Y VIDER BILDGE - 655 160 - - - - 100+24 UNDER BILDGE 88 -</td><td>BASE CONCRETE REMOVING AGGREGAT AGGREGAT CORCRETE CONCRETE CONCRETE CONCRETE CONCRETE DENSE DENSE ASPHALTIC ASPHALTIC CURB GURDS GGREGAT SURFACE FLUMES TYPEA 36-INCH TYPED STATION TO STATION SIDE (IN) LAYERS SY TON TON TON SY LF LF 98+47 - 99+25 LT/RT LT/RT 2.5 1 - 655 1600 - - - - - 99+25 LT/RT 2.5 1 - 655 1600 -<!--</td--><td>BASE BASE CONCRETE CON</td><td>STATION S SP E F<</td><td>STATION TO STATION SIDE LIVE LAYERS SIDE AGG AGG</td></td></td<>	BASE BASE REMOVING AGGREGATE AGGREGATE AGGREGATE AGGREGATE AGPHALTIC ASPHALTIC CUNCRETE CONCRETE DENSE DENSE DENSE ASPHALTIC ASPHALTIC CURBS SIDEWALK 3/4-INCH 11/4-INCH SUFACE FLUMES TYPEA ASPHALT L 204.0155 305.0110 305.0120 465.0105 465.0315 601.0105 THICKNESS THICKNESS TON TON TON SY IF 98447 99+25 LT/RT 2.5 1 - 655 160 - - - 99+25 Y VIDER BILDGE - 655 160 - - - - 100+24 UNDER BILDGE 88 -	BASE CONCRETE REMOVING AGGREGAT AGGREGAT CORCRETE CONCRETE CONCRETE CONCRETE CONCRETE DENSE DENSE ASPHALTIC ASPHALTIC CURB GURDS GGREGAT SURFACE FLUMES TYPEA 36-INCH TYPED STATION TO STATION SIDE (IN) LAYERS SY TON TON TON SY LF LF 98+47 - 99+25 LT/RT LT/RT 2.5 1 - 655 1600 - - - - - 99+25 LT/RT 2.5 1 - 655 1600 - </td <td>BASE BASE CONCRETE CON</td> <td>STATION S SP E F<</td> <td>STATION TO STATION SIDE LIVE LAYERS SIDE AGG AGG</td>	BASE BASE CONCRETE CON	STATION S SP E F<	STATION TO STATION SIDE LIVE LAYERS SIDE AGG AGG

PROJECT NO: 8337-00-70	HWY: SOUTH SHORE ROAD	COUNTY: BAYFIELD		MISCELLANEOUS	S QUANTITIES		
FILE NAME : G:\2019-PROJ\19258046\C3D\SHEETSPLAN\030101 MQ.DWG		PLOT DATE :	11/11/2021 11:19 AM	PLOT BY :	JACOB FRIBERG	PLOT NAME :	

			SHEET		Ε
		:			
	2 STEPS LT & 3 STEPS RT				
	REMARKS	-			
.50					
IG I T					

CATEGORY LOCATION 0010 B-04-0124 NW 0010 B-04-0124 SW 0010 B-04-0124 NE 0010 B-04-0124 SE 0010 D-04-0124 SE	RIPRAP <u>MEDIUM</u> 606.0200 <u>CY</u> - - 3 3	EROSIC SALVAGED URBAN TOPSOIL TYI 625.0500 628. SY S 90 9 85 8 10 1 15 1	DN MAT ICLASS I FERTILIZE PE B TYPE B 2008 629.021 SY CWT 200 0.07 35 0.07 .0 0.01 .5 0.01	R SEEDING <u>MIX NO. 20</u> 0 630.0120 <u>LB</u> 3 3 1 1 2	GEOTI FAE SEED WATER TYF 630.0500 645. MGAL S 3 - 3 - 1 1 1 1 2 -	CATEGORY POST 0010 98 0010 98	<u>1 STA</u> 82 86	LOCATION LT RT	THI <u>TR/</u> 62	MGS RIE BEAM ANSITION 14.2500 LF 39.4 39.4	MGS GUARDRAIL TERMINAL EAT 614.2610 EA 1 1	-	CATEGOR 0010 0010 0010 0010	Y LOCATION B-04-0124 NV B-04-0124 SV B-04-0124 SV B-04-0124 SE B-04-0124 SE	SILT FENCE 628.1504 LF W 80 V 85 E 40 35	SILT FENCE MAINTENANC 628.1520 LF 80 85 40 35
TOTAL 0010	10	250 2	50 0.2	10	10 2	=		τοται	_0010	78.8	2	=	0010	UNDISTRIBUT	D10 300	300
CATEGORY STATION 0010 93+35 0010 97+50 0010 99+75 0010 99+77 0010 100+44 0010 100+44 0010 100+40	N SIDE 5 RT 0 RT 3 RT 3 LT 5 RT 5 LT 5 LT 0 LT TOTAL 001	POSTS S WOOD T 4x6-INCH REF x 12 FT 634.0612 63 EA 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SIGNS YPE II REMOVIN LECTIVE SIGNS F TYPE II 7.2230 638.260 SF EA 8.50 - 8.25 - 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	G REMOVING SMALL SIGN SUPPORTS 2 638.3000 EA - - 1 1 1 1 1 1 - - - 4	REMARKS 25 MPH CURVE PEDESTRIAN AHEAE W5-52R W5-52L W5-52L W5-52R PEDESTRIAN AHEAE	<u>CATEGO</u> 0010 0010 0010 0010 0010	<u>' DAYS</u> 110 110 110 110 110 110	TRAF B 5 # 3 3 4 6 0010	FIC CONTR ARRICADES <u>TYPE III</u> 543.0420 DAY 330 330 440 660	COL TRAF WAR 6 (5 # 0 4 0 4 0 4 0 4 0 2 50 12	FIC CONTROL NING LIGHTS TYPE A 440 440 880 1,320 3,080	TRAFFIC CONTROL SIGNS 643.0900 # DAY: 1 110 1 110 6 660 8 880 2 220 1,98	ROAD CL ROAD CL ROAD CL ADVANC ADVANC ROAD W	REMARK OSED DETAIL D WES OSED DETAIL D FAS ED ROAD CLOSED D ED ROAD CLOSED D ORK AHEAD SIGNS O	ST SIDE TSIDE TSIDF ETAIL C WEST SID ETAIL C EAST SIDI DN EAU CLAIRE RI	PE E VER
CATEGORY STATION TO STATIOI	N SIDE	MARKING LIN EPOXY 4-INCH 646.1020 LF	IE MARKING L EPOXY <u>4-INCH, YELI</u> * LF	INE MARKII EPC <u>OW 4-INCH,</u>	NG LINE DXY , WHITE * F	IARKS	ATEGORY	STATION	I TO STAT	10N	CONSTRUCT STAKING SUBGRAD 650.4500 LF	ION CONST E STAKII) 650	RUCTION CL NG BASE (.5000 LF	CONSTRUCTION STAKING C URB GUTTER AND CURB & GUTTER 650.5500 LF	CONSTRUCTION STAKING SLOPE STAKES 650.9920 LF	
001099+25-100+750010100+65-101+300010100+65-102+40	CL LT RT	300 65 175	300	6	- DOUBLE 5 LT WHITE 75 RT WHITE	W CENTERLINE ELINE ELINE	0010 0010 0010 0010 0010	98+47 99+25 100+24 100+34 100+45	- 99+2 - 99+7 - UND - 100- - 100-	25 74 •ER BRIDGI •45 •65	78 49 - 11 20		78 49 - 11 20	- 25 - 40	78 49 - 11 20	
	TOTAL UU	10 340	*FOR INFORM	ATION ONLY	+0		0010	100+65	5 - 100- T	+75 TOTAL 001	10 0 168	1	10	- 65	10	
															1	

PLOT NAME :



PLOT NAME

PI STA = 101+38 Y = 348109.626	B.60 MICHAEL & M	NANCY NIELCEN SHORE ROAD	
TYP) X = 651009.004 DELTA = 12°41'2 D = 6°01'52" T = 105.69' L = 210.51' E (TYP) PC STA = 100+3: PT STA = 102+4: SE = N.C. HE EPOXY, 4-INCH (WHITE) CENT TO PARKING AREA	2.92 3.42	N	
ASPHALT NORVADO PARKING AREA		W11-2 30"X30" AHEAD W16-9P 24"X12" IO3+00	
IECT 75 XISTING REQ'D PUBLIC ACCESS TIL TIL TIL TIL TIL TIL TIL TIL TIL TIL	PI STA = 103+13.42 Y = 348077.822 X = 651181.789 DELTA = 19°51'10" D = 14°19'26" T = 70.00' L = 138.60' R = 400.00' PC STA = 102+43.42		5
ROM BAYFIELD COUNTY	PT STA = 103+82.02		┫
CTURE B-04-0124 ' PRESTRESSED CONCRETE GIRDER BRIDGE WAY WIDTH ENGTH (BACK TO BACK ABUTS.))
		1145	5
RIGINAL GROUND		1140)
			5
EARTHWORK SUMMARY		1130)
IMON (CUT) = 70 CY ABLE PAVEMENT MATERIAL = 20 CY NIAL = 50 CY = 5 CY		1125	5
= 5 CY = 45 CY		1120)
		1115	5
1137.40 1137.26 1137.11	1137.04	1137.04	
102+00	102+50	103+00	
	SHEET	E	J

Standard Detail Drawing List

08D01-22A 08D01-22B 08D04-05 08E09-06 12002-10	CONCRETE CURB & GUTTER CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES SILT FENCE NAME PLATE (STRUCTURES)
1/R/2_07A	MIDWEST CHAPDRALL SYSTEM (MCS) CHAPDRALL
14B42-07R	MIDWEST GUARDRALL SYSTEM (MGS) GUARDRALL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MI DWEST GUARDRAIL SYSTEM ÈNERGY 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)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



SDD 08D01 22a

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DEPARTMENT OF TRANSPORTATION

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SDD 08D01 22b



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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)







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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SDD 14B42 0 ð

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



SDD 14B42 . 0 **n**



SDD 14B42 07d

- (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.





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

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

SECTION B - B TYPICAL AT POST NO. 2*









BILL OF MATERIALS

MAT SEE MA	DESCRIPTION TERIALS PROVIDED BY MGS EAT MANUFACTURER. ANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER P	OST NO. 1 6" X 6" TUBE
LOWER F	POST NO. 1
WOOD C	RT
WOOD BI	LOCKOUT
PIPE SLE	EVE
BEARING	PLATE
BCT CAB	LE ASSEMBLY
ANCHOR	CABLE BOX
GROUND	STRUT
PERFOR/	ATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDAF SECTION	RD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. IS VARY IN LENGTH.
IMPACT H	IEAD
EAT MAR (SEE APP	KER POST - YELLOW PROVED PRODUCTS LIST)
SOIL PLA	TE
UPPER P	OST NO. 2
LOWER P	POST NO. 2

6

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





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)
 - 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"
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING
- (1)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.



- (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 -

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



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
For 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				
		MOD	IF	FICA	TI	SNC				
	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			



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W14.DGN

PLOT DATE : 17-MAY-2012 13:20

PLOT NAME :

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. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

4.000	STANDARD STGN
sq. ft.	01701021011
4.0	W1-4
6.25	
 	WISCONSIN DEPT OF TRANSPORTATION
9.0	WISCONSIN DELT OF TRANSFORTATION
• •	APPROVED AND ILL ON A
9.0	Matthe R Raul
90	1. avview / raug
5.0	for State Traffic Engineer
16.0	
	DATE <u>5/17/12</u> PLATE NO. <u>W1-4.11</u>
	SHEET NO: E
	PLOT SCALE : 5.706180:1.000000 WISDOT/CADDS SHEET 42



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

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

7													E				+							L.Siç	jn i lor: Mess
	SIZE A E	C C 1 1/8	D 3/8	E 1/2	F 9 ³ ⁄4	G	H I 7/8 2 7/8	J 5 1/8	К	L	М	N	0	P	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft. 4.0
	2S 30	1 3/8	1/2	5/8	12 1/8	ç	7/8 3 1/2	6 3/8																	6.25
	2M 36	1 5/	5/	5/4 3/	14 1/2	1	$\frac{1}{1} \frac{1}{8} \frac{4}{4}$	7 5/8																	9.0
	1 3 36 4 48	2 1/4	7/8 3/,	1 × 1	14 1/2	1	1 1/8 4 1/4 5 3/2 5 5/2	10 1/.	1																9.0 16.0
			/4		17 /8		<u> </u>	10 /4	+																10.0
	PROJECT NO)°	1	1	1	і і	 ₩Υ°								1	1	1		1	1	1	1	1	1	
	FILE NAME : C:\CAE	Files\Proje	cts\tr_s	stdplate\	W112.DGN		Y a							PL	.OT DATE	: 08-AP	RIL-2020		PLOT	BY : do	tc4c		PLOT I	NAME :	
				3. 3																	-				

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NOTES
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is Type II – Type F Reflective
:
ckground – Yellow
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ssage – Black
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FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W131.DGN

PLOT DATE: 31-MAY-2012 10:57 PLOT BY : mscsja

PLOT NAME :

Type F Refl Specificatio NSTRUCTION 10	ective - ro on for HIG atest edit	eference HWAY ion.	Ð	
llow See Note 6 quare or rou od but border ose material ers shall be priate numero to achieve p	unded wher rs shall be is metal, t rounded. als and opt roper bala	n base e rounde the tically sp ince.	ed pace	
				7
Areo sa. ff. 2.25 2.25 2.25 4.00 9.00 9.00	STAND WISCONSIN DEP APPROVED Mate 5/31/12	ARD SI 113-1 T OF TRANSPO THE NO.	GN DRT AT ION Rauch eer <u>W13-1.16</u>	
PLOT SCALE :	3.225232:1.000000	HEET NO:	DS SHEET 4	2

- 2. Color:



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W169P.DGN

PLOT DATE : 07-MAR-2019

PLOT BY : dotc4c

Х

Y

NOTES

1. Sign is Type II - Type F Reflective

Background - Yellow Message – Black 3. Message Series - C

Z	Area sq. ft.	STANDARD SIGN
		W16-9P
	2.0	
	3.75	WISCONSIN DEPT OF TRANSPORTATION
	3.75	APPROVED Matthew R Rouch
	8.0	Fostate Traffic Engineer
		DATE 3/7/19 PLATE NO. W16-9P.7
		SHEET NO: E





STATE PROJECT NUMBER

8337-00-70

GENERAL NOTES DRAWINGS SHALL NOTE BE SCALED.

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

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

THE SLOPE OF 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.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-4-124" SHALL BE THE EXISTING GROUNDLINE.

BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

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

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND $2^{\prime}-0^{\prime\prime}$ ABOVE BOTTOM OF ABUTMENT.

 $\ensuremath{\mathsf{PROTECTIVE}}$ SURFACE TREATMENT SHALL BE APPLIED TO THE TOP SURFACE OF THE DECK.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE FRONT FACE AND TOP SURFACES OF THE PARAPETS.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW NEW BRIDGE AND CURRENT CONSTRUCTION YEAR.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

REMOVAL OF THE EXISTING TIMBER BRIDGE STRUCTURE SHALL BE DONE IN SUCH A WAY AS TO PROVIDE THE LEAST AMOUNT OF IMPACT TO THE EXISTING CONCRETE LOCK & DAM. ANY DAMAGES TO THE LOCK & DAM SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCES TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

THE COORDINATE SYSTEM FOR THIS PROJECT IS WISCONSIN COUNTY COORDINATE SYSTEM (WCCS) - BAYFIELD COUNTY.

BENCHMARKS										
NO.	STATION	ELEV.	DESCRIPTION							
10	100+19.24	1123.87	38.66' RT; MAG NAIL IN CONCRETE SIDEWALK							
521	100+17.56	1128.18	33.05' LT; WI DNR BM DISC IN CONCRETE							

						8
NO.	DATE		REVISION		BY	
	I	STATE DEPARTMENT	OF WISCON OF TRANSF	SIN PORTATION		
	STRU	JCTURE	B-4-1	24		
			DRAWN BY JF	PLANS CK'D.	SP	
(ELE CRO	EVATION SS SEC	I& ∶TION	SHEET 2		







TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0270	REMOVING STRUCTURE OVER WATERWAY DEBRIS CAPTURE SYSTEM B-4-413	EA	-	-	-	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-4-124	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	320	120	-	440
502.0100	CONCRETE MASONRY BRIDGES	CY	48.2	30.7	67.4	146
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	162	162
502.3210	PIGMENTED SURFACE SEALER	SY	-	9	50	59
503.0128	PRESTRESSED GIRDER TYPE I 28-INCH	LF	-	-	295	295
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	5,230	3,320	-	8,550
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,900	1,985	11,015	14,900
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EA	-	-	10	10
506.4000	STEEL DIAPHRAGMS B-4-124	EA	-	-	4	4
513.7006	RAILING STEEL TYPE C1	LF	-	-	140	140
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	5	-	11
604.0400	SLOPE PAVING CONCRETE	SY	17	18	-	35
606.0300	RIPRAP HEAVY	CY	5	75	-	80
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	85	-	155
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EA	2	2	-	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	30	20	-	50
645.0120	GEOTEXTILE TYPE HR	SY	10	115	-	125
999.1001.S	SEISMOGRAPH	EA	0.5	0.5	-	1
999.1501.S	CRACK AND DAMAGE SURVEY	EA	0.5	0.5	-	1
SPV.0090.01	16-INCH AUGER-CAST CONCRETE PILES	LF	306	195	-	501
SPV.0090.02	FENCE CHAIN LINK POLYMER-COATED 4-FT, B-4-124	LF	28	-	-	28
NON-BID ITEM	4" X 1/2" PERFORMED JOINT FILLER	LF	26.5	26.5	-	53
NON-BID ITEM	1/2" PERFORMED JOINT FILLER	SF	4.5	4.5	-	9







COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	27	3'-0"	Х		ABUT. BODY TIE BARS
	32	7'-11"	Х		ABUT. BODY HORIZ. TOP
	64	10-6"	Х		ABUT. BODY VERT.
	9	30'-11"			ABUT. BODY HORIZ. F.F.
	9	21'-7"	Х		ABUT. BODY HORIZ. B.F.
	9	21'-7"	Х		ABUT. BODY HORIZ. B.F.
Х	12	2'-0"			ABUT. BODY VERT. BETW. SEATS
Х	60	13'-4"	Х	Х	WINGS VERT. E.F.
Х	8	14'-11"	Х		WINGS VERT. E.F.
Х	18	14'-7"	Х		WINGS HORIZ. F.F.
Х	18	16'-0"	Х		WINGS HORIZ. B.F.
Х	4	13'-2"			WINGS HORIZ. E.F.
Х	4	10'-8"			WINGS HORIZ. E.F.
Х	4	8'-1"			WINGS HORIZ. E.F.
Х	4	5'-7"			WINGS HORIZ. E.F.
Х	4	13'-8"	Х		WINGS DIAGONAL E.F.
Х	10	8'-10"	Х		WINGS HORIZ. E.F.
Х	12	4'-2"			WINGS VERT.
	64	21'-0"	X		PILING VERTICAL
	88	4'-2"	X		PILING STIRRUPS





					STATE PROJECT NUMBER
)	- BARS				8337-00-70
	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
1	5	28'-0"	Х		ABUT. BODY @ PILES
1	10	2'-3"			ABUT. BODY @ PILES
T	33	13'-10"	Х		ABUT. BODY VERT.
T	10	26'-0"			ABUT. BODY HORIZ.
Ι	7	28'-3"	Х		ABUT. BODY HORIZ. B.F.
T	12	2'-0"			ABUT. BODY DOWELS
T	24	15'-4"	Х		WINGS VERT.
t	12	13'-0"			WINGS HORIZ. F.F.
T	16	13'-0"			WINGS HORIZ. B.F.
T	30	11'-0"	Х		WINGS VERT.
T	12	10'-7"			WINGS HORIZ. E.F.
T	4	10'-7"			WINGS HORIZ. E.F. TOP
T	4	4'-5"			ABUT. BODY VERT. ENDS
T	40	21'-0"	Х		PILING VERTICAL
T	55	4'-2"	Х		PILING STIRRUPS

(1) INDICATES WING NUMBER

KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2X6.

PIPE UNDERDRAIN WRAPPED 6-INCH. EXTEND THRU GEOTEXTILE FABRIC AT FACE OF RIPRAP HEAVY. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE RODENT PROTECTION AT ENDS OF PIPE.

▲ 1/2" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.

18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE OF ABUTMENT.

HORIZ. 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), EXTEND BETWEEN WINGS.

OPTIONAL KEYED CONST. JOINT ON WING FORMED BY BEVELED 2x6. IF JOINT IS USED, POUR CONCRETE ABOVE JOINT AFTER DECK IS IN PLACE AND PLACE 18" RMW ON BACK FACE OF WING. COST OF RMW INCLUDED IN BID ITEM "CONCRETE MASONRY BRIDGES".

 \blacksquare 3/4" "V" groove on front face of Wing Wall, required only where construction joint is used.

F.F. = FRONT FACE B.F. = BACK FACE CL. = CLEAR





STATE PROJECT NUMBER

8337-00-70

NOTES

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

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

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.SEE SECT.503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

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

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

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

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

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

BEND EACH END OF #4 STIRRUPS 41/2" AND #5 STIRRUPS 6".

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



DECK HAUNCH DETAIL

IF 1¹/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ¹/₂" OR, ** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT \pounds of substructure units & at 1/10 points of each span shall be taken. Then follow this process:

TOP OF DECK ELEV.AT FINAL GRADE - TOP OF GIRDER ELEVATION

- TOP OF GIRDER ELEVATIO + DEAD LOAD DEFLECTION
- DECK THICKNESS

= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3" WAS USED IN THE OUANTITY "CONCRETE MASONRY BRIDGES".

		NO.	DATE	REVISION		BY		
UNDRAPE	D PATTERN			STATE OF WISCONS DEPARTMENT OF TRANSPO	IN DRTATION			
B" "C" STRAN	L f'ci F (P.S.I.) DS X		STRL	ICTURE B-4-12	4			
2.5 5			DRAWN BY JAF CKD. SKP					
		28 G	3" PI IRDE	RESTRESSED ER DETAILS	SHEET 9			













8337-00-70

COMBINATION C1 RAILING SEE DETAIL SHEET 14

VERTICAL FACE PARAPET "A" SEE DETAIL SHEET 13

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	C	EPARTMENT (OF TRANSPO	ORTATI	ON						
S	STRU	ICTURE	B-4-1	24							
			DRAWN		PLANS	CIVD					
			BY JAF		CK'D.	SKP					
SL	JPEF	RSTRUC	TURE	SHEE	T 11						



	LOCATION	C/L BRG. W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	C/L BRG. E. ABUT.
1	N. EDGE OF DECK	1138.50	1138.42	1138.34	1138.27	1138.22	1138.16	1138.13	1138.09	1138.06	1138.03	1138.00
0	CL GIRDER 1	1138.55	1138.47	1138.39	1138.32	1138.27	1138.21	1138.18	1138.14	1138.11	1138.08	1138.05
6	CL GIRDER 2	1138.66	1138.58	1138.50	1138.43	1138.38	1138.32	1138.29	1138.25	1138.22	1138.19	1138.16
	GIRDER 3/CROWN	1138.77	1138.69	1138.61	1138.54	1138.49	1138.43	1138.40	1138.36	1138.33	1138.30	1138.27
0	CL GIRDER 4	1138.66	1138.58	1138.50	1138.43	1138.38	1138.32	1138.29	1138.25	1138.22	1138.19	1138.16
	CL GIRDER 5	1138.55	1138.47	1138.39	1138.32	1138.27	1138.21	1138.18	1138.14	1138.11	1138.08	1138.05
4	S. EDGE OF DECK	1138.50	1138.42	1138.34	1138.27	1138.22	1138.16	1138.13	1138.09	1138.06	1138.03	1138.00

LESS	SLAB IHI
PLUS	CAMBER
DILLC	EODM CE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S501						PARAPET, SEE SHEET 13
S502						PARAPET, SEE SHEET 13
S503						PARAPET, SEE SHEET 13
S504	X	60	9-10"	Х		DIAPHRAGM @ ABUTS STIRRUP
S605	X	10	26'-2"			DIAPHRAGM @ ABUTS HORIZ.
S606	X	8	1'-3"			DIAPHRAGM @ ABUTS HORIZ. AT
S607	X	4	1'-8"			DIAPHRAGM @ ABUTS HORIZ. AT
S608	X	16	3'-9"			DIAPHRAGM @ ABUTS HORIZ.
S609	X	8	5'-2"			DIAPHRAGM @ ABUTS HORIZ.
S410	X	207	26'-2"			SLAB, TOP & BOTTOM, TRANSVERSE
S411	X	142	30'-11"			SLAB, TOP & BOTTOM, LONGIT.
S512	X	206	4'-2"	Х		SLAB, TOP, TRANVERSE AT EDGES



BAR MARK	COAN	NO. REQ'D.	LENGTH	8EWS	BAR SERIES	LOCATION
R501	х	38	6-1"	Х		PARAPET VERT.
R502	х	38	4'-9"	Х		PARAPET VERT.
R503	Х	16	10'-7"			PARAPET HORIZ.
S501	Х	146	4'-4"	Х		PARAPET VERT.
S502	Х	146	4'-9"	Х		PARAPET VERT.
S503	Х	16	60'-0"			PARAPET HORIZ.



STATE PROJECT NUMBER

8337-00-70

LEGEND

(1A) PLATE 5/8" X 6" X 8" WITH 3/4" X 11/2" SLOTTED HOLES.

(1C) PLATE 5/8" X 8" X 1'-1" WITH 3/4" X 1/2" SLOTTED HOLES.

 $(2A)^{1/4}$ " X 5" X 7" ANCHOR PLATE WITH $\frac{1}{16}$ " DIA. HOLES FOR THR'D. RODS NO. 3.

 $(2C)^{1}/_{4}$ " X $2^{1}/_{2}$ " X $7^{1}/_{4}$ " ANCHOR PLATE WITH $^{1}/_{16}$ " DIA. HOLES FOR THR'D. RODS NO. 3.

3 5%" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS 56-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STADADD SECURICATIONS

STANDARD SPECIFICATIONS.

(4A) STRUCTURAL TUBING 3" X 1/2" X 3/6". PLACE VERTICAL. WELD TO NO.1 & 5.

5A Structural tubing 3" x $1\!/_2$ " x $3\!/_6$ " rails. Weld to no.1 & no.4. Inside of tube to be painted at all field erection & expansion joints.

6B bar 1" x 11/2" pickets. Weld to No. 5. (space at 6" max. ${\rm C}$ to ${\rm C}$ spacing) place vertical.

(6C) BAR 1" X 11/2" PICKETS. WELD TO NO. 11. PLACE VERTICAL.

(8) STRUCTURAL TUBING 5" DIA. (STANDARD SIZE) (5.563" O.D.) 11/2" LONG SLICES. WELD TO NO. 5A.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/6" PLATES. PROVIDE "SLIDING FIT".

(0) RECTANGULAR SLEEVE FABRICATED FROM 3%" PLATES. (1-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C1", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

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

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS N SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO.3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO.6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED THE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. COLOR NO. 17038, BLACK.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

NO.	DATE	F	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
STRUCTURE B-4-124						
	DRAWN BY JAF				PLANS CK'D.	SKP
COMBINATION RAIL TYPE "C1" DETAILS						





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^{11/11/2021 10:00} AM PLOT BY :



WISDOT/CADDS SHEET 49



G:\2019-PROJ\19258046\C3D\SHEETSPLAN\090201_XS.DWG LAYOUT NAME - 3 CROSS SECTION

PLOT DATE : 11/11/2021 9:45 AM PLOT BY :

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

