

FILE NAME : S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\SHEETSPLAN\TITLE.DWG LAYOUT NAME - TITLE - TITLE SHEET 1 IN EQ 0.5 MI

STATE PROJECT	FEDERAL PROJEC	CT
STATE PRODECT	PROJECT	CONTRACT
5516-00-70	WISC 2019153	1

AS-BUILT PLAN

PROJECT MANAGER: John Bainter PROJECT ENGINEER: Elizabeth Reis, DAAR Engineering **CONTRACTOR:** Pheifer Brothers Construction **CONSTRUCTION STARTED: 5-16-19** SUBSTANTIALLY COMPLETE: 7-18-19



		L	<u>IST (</u>	<u>OF S</u>	STAN	NDAR[<u>) A</u> E	BBRE\	<u>/IATIC</u>)NS			GENERAL NOTES
IT Abutme Acre Acre Adgreg Ahead Angle H Asphalt Average Average Average Base A Back Back Fi Bridge r C/L Center Center Center County Creek Crushec or CU YD Cubic N Culvert & G Curb ar Degree	ent ic e Daily ggrega ace Mark Line to Cer Trunk d (ard Pipe nd Gut of Cu	Traffic te Den hter Highwo ter ve Volume	<u>IST</u>	OF S INV IP IRS J J HF L LLC MB MD P P P P P P P P P P P P P	STAN	JDARI Invert Iron F Joint Joint Joint Joint Joint Joint Left– Lengt Linear Long Manha Mailbc Match North North North Outsic Permo Easen Point Point Point Point Point	D AE Pipe or Rod Se ion Hand F Hand F Hoot Chord Die X I Line Grid C de Dian anent L nent of Cur of Rev of Tar On Cu	Pin t orward urve of Curve Coordinat neter .imited vature ersection rese Cui igency rve	<u>/IATIC</u> e rvature	SALV SAN S SEC SHLDR SHR SW SS SQ SF or STD SDD STH STA SS SG SC SL Or SV T TEL TEL TEL TEL TEL TEL TEL	SQ FT SQ YD S/L	Salvaged Sanitary Sewer Section Shoulder Shrinkage Sidewalk South Square Square Feet Square Yard Standard Detail Drawin State Trunk Highways Station Storm Sewer Subgrade Superelevation Survey Line Septic Vent Tangent Telephone Temporary Iemporary Interest	GENERAL NOTES THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD. EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER. DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 40), AND EROSION MATTED AS DIRECTED BY THE ENGINEER. WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE, OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE AND TEMPORARY DITCH CHECKS (WORK BY OTHERS) SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
Diameta East East G C Electric or ELEV Elevatic LS Equivals S Excavat Face ta Field Er Fill Finished or F/L Flow Lin Foot Foot Grid No Height Inlet Inside [er rid Coc (al) on ent Sin cion Be o Face ntrance d Grad- ne orth dweight : Diamet	ordinate ngle Ax elow Su e t t	e bgrade	PPCC DVCC DVCC DVCC DVCC DVCC DVCC DVCC	R/L	Point Portle Portle Pounc Privat Radiu Radiu Radiu Referr Referr Referr Referr Referr Regui Resid Resid Resid Resid Referr Rogat Rogat Rogat	on la nyl Chl ind Cer ds Per e Entro s ad ence Li ence C red ence O ning Wo -Hand -of-Wo vay	ngent oride ment Coi Square ance ne oint concrete r Resider JII Forward ay	ncrete Inch ntial	t T or T TRANS TL or T TYP UNCL UG USH VAR V VERT VC VOL WM WV W W W YD	N T∕L	Iemporary Limited Easement Ton Town Transition Transit Line Trucks (percent of) Typical Unclassified Underground Cable United States Highway Variable Velocity or Design Spe- Vertical Vertical Curve Volume Water Main Water Valve West West West Stound Yard	 EROSION MAT ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD. FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%. ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER. REMOVAL OF ASPHALTIC OR CONCRETE SURFACES WHERE AN ABUTTING ASPHALTIC OR CONCRETE SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD. THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT. 4-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1 3/4-INCH UPPER LAYER AND A 2 1/4-INCH LOWER LAYER. ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 115 LB/SY/IN. THE EXACT LOCATION OF PRIVATE AND COMMERCIAL ENTRANCES TO BE DETERMINED BY THE ENGINEER IN THE FIELD. ACCURACY OF INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD. CURB AND GUTTER ELEVATIONS ARE GIVEN ON THE FLANGE LINE, UNLESS OTHERWISE NOTED. ALL RADII DIMENSIONS ON THE PLAN FOR CURB AND GUTTER ARE TO THE FLANGE OF THE CURB AND GUTTER. EXISTING DRIVEWAYS SHALL BE RESTORED IN KIND AND THEIR LOCATION VERIFIED BY THE ENGINEER IN THE FIELD.
					HY	ſDROLOGI	C_SOIL	GROUP					EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADII POINTS IN THE CURB & GUTTER. THE COST OF CONNECTING CULVERT PIPE OR STORM SEWER TO EXISTING DRAINAGE STRUCTURES SHALL BE INCIDENTAL TO THE COST OF INSTALLING THE CULVERT OR STORM SEWER. STORM SEWER ELEVATION ELEVATIONS. LENGTHS, AND LOCATIONS AS SHOWN ON THE PLANS AND
	s	A LOPE F	ANGE	5	B SLOPE F	RANGE	5	C SLOPE RA	ANGE	SL	D OPE RA	NGE	CROSS SECTIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
	-	(PERC	ENT)		(PERC	CENT)		(PERCEI	NT)	(PERCEN	Τ)	MISUELLANEUUS KEMUVAL HEMS REQUIRING RESTORATIONS OF CONCRETE OR ASPHALT DRIVEWAYS, SIDEWALKS, OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER IN THE FIELD OR AS SHOWN ON THE DIANS
LAND USE	0-2	2-66	& OVE	R 0-2	2-66	6 & OVE	.R 0-2	2-6 6	& OVER	0-2	2-66	X UVER	TRANSVERSE JOINTS IN CONCRETE SIDEWALK SHALL BE CONSTRUCTED AT INTERVALS EQUAL TO
ROW CROPS	.08	.30	.22	.12	.20	.27	.30	.37	.50	.19 .34	.20	.56	THE WIDTH OF THE CONCRETE SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	INU STURM SEWER SHALL BE REMOVED UNTIL DIRECTED BY THE ENGINEER.
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36		-	.30 .38	FERTILIZER TYPE B, SEEDING MIXTURE NO. 60, & EROSION MAT URBAN CLASS I TYPE B PLACED OVER RIPRAP HEAVY OVER GEOTEXTILE TYPE HR.
PAVEMENT							1	1					
CONCRETE						.70 .80	95) ;					
BRICK						.70	80)					
DRIVES, WALK	(S					.75	85	•					
ROOFS						.75	95						
GRAVEL ROAD	DS, SH	OULDEF	RS			.40	60)					
TOTAL PROJE TOTAL AREA	CT AR EXPEC	EA= 0 TED TO	.59 ACR) BE DIS	E'S STURBE	D BY (CONSTRU	JCTION	ACTIVITI	ES = 0.	49 ACI	RES		

NROE COUNTY HIGHWAY PARTMENT: AVID OHNSTAD, COMMISSIONER D3 WASHINGTON STREET PARTA, WI 54656 (608) 269-8740 LL: (608) 487-6216 AIL: `david.ohnstad@co.monroe.wi.us IR LIAISON:

TATE OF WISCONSIN NR SERVICE CENTER 550 MORMON COULEE ROAD ACROSSE, WI 54601 ITN: KAREN KALVELAGE I: (608) 785-9115 IAIL: Káren.Kalvelage@wisconsin.gov DESIGN CONSULTANT: JEWELL ASSOCIATES ENGINEERS, INC. 560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: ELLERY SCHAFFER, P.E. PH: (608) 459-6027 CELL: (608) 341-8159 EMAIL: ellery.schaffer@jewellassoc.com

UTILITIES

ELECTRIC

ALLIANT ENERGY ATTN: MARK SCHOEN 338 EAST STATE STREET

MAUSTON, WI 53948

PH: (608) 847-1315

CELL: (608) 206-4819

MMUNICATION CENTURYLINK ATTN: BRIAN STELPLUGH 333 NORTH FRONT STREET A CROSSE, WI 54601 H: (608) 796-5142 ELL: (608) 780-1238 MAIL: brian.stelplugh@centurylink.com

ADISON GAS & ELECTRIC CO. (MGE) ATTN: SHAUN ENDRES 33 SOUTH BLAIR STREET ADISON, WI 53788 H: (608) 252-7224 MAIL: SÉndres@mge.com

SEWER AND WATER VILLAGE OF KENDALL PUBLIC WORKS DEPT. ATTN: DAVID GRUEN, DPW 219 WEST SOUTH RAILROAD ST. KENDALL, WI 54638 PH: (608) 463-7232 CELL: (608) 797-0076 EMAIL: dave.kendall@centurytel.net

EMAIL: MarkSchoen@alliantenergy.com

MMUNICATION COMMUNITY ANTENNA SYSTEMS, INC.

ATTN: RANDY KUBARSKI 1010 LAKE STREET HILLSBORO, WI 54634 PH: (608) 489-2321 ELL: (608) 604-3695 MAIL: comant@comantenna.com



* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE



FILE NAME : LAYOUT : S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\SHEETSPLAN\TYPICALS\EXISTING TYP.DWG EXISTING CTH W

PLOT DATE PLOT TIME : 10/2/2018 3:59:35 PM PLOT BY : JULIA ZEHNER

2



PROJECT NO: 5516-00-70	HWY:CTH W	COUNTY: MONROE	TYPICAL EXISTING SEC	TION
FILE NAME : S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\SHEETSPLAN\TYPICALS\EXISTING TYP.DWG LAYOUT : EXISTING OLD GLENDALE RD		PLOT DATE : PLOT TIME :	10/2/2018 PLOT BY : 4:01:12 PM	JULIA ZEHNER

2

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2 R/W VARIES 31'-41' VARIES 25'-35' 8' LATERAL CLEARANCE 41' FACE OF CURB TO FACE OF CURB × 12' 12' 6 11' 4' SIDEWALK PARKING LANE DRIVING LANE DRIVING LANE PAVED SHOULDER SLOPE INTERCEPT-VARIES 1' POINT REFERRED VARIES 2.0%-3.0% VARIES 2.0%-3.0% TO ON PROFILE VARIES VARIES 2.0%-2.5% 1.5% 2.0%-2.5% SLOPE INTERCEPT -(TYP.)- POINT REFERRED TO ON CROSS SECTIONS 2' (TYP.) CONCRETE SIDEWALK 4- INCH-6" BASE AGGREGATE DENSE--4" ASPHALTIC SURFACE 3/4-INCH -12" BASE AGGREGATE DENSE 11/4-INCH TYPICAL FINISHED SECTION (CTH W) STA. 12+00 - STA. 12+74 R/W VARIES 31'-41' VARIES 25'-35' 8' LATERAL 8' LATERAL CLEARANCE CLEARANCE 36' FACE OF CURB TO FACE OF CURB × VARIES 5'-6' VARIES × 0'-19' 12 12 4 SIDEWALK TERRACE PAVED DRIVING LANE DRIVING LANE PAVED SHOULDER SHOULDER VARIES POINT REFERRED-TO ON PROFILE VARIES 2.0%-2.5% VARIES 2.0%-2.5% 4.0% VARIES VARIES 1.5% 🔪 4.0% 2.0%-2.5% SLOPE INTERCEPT -2.0%-2.5% (TYP.) -POINT REFERRED TO 2' (TYP.) CONCRETE SIDEWALK 4-INCH (TYP.)-ON CROSS SECTIONS -4" ASPHALTIC SURFACE 6" BASE AGGREGATE DENSE 34-INCH (TYP.)--12" BASE AGGREGATE DENSE 11/4-INCH TYPICAL FINISHED SECTION (CTH W) STA. 12+74 - STA. 14+50

PROJECT NO: 5516-00-70	HW	NY:CTH W	COUNTY: MONROE	TYPICAL	FINISHED SECTION
FILE NAME : S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\SHEETSPLAN\T LAYOUT : FINISHED CTH W	PICALS\PROPOSED TYP.DWG		PLOT DATE : PLOT TIME :	10/16/2018 3:49:26 PM	PLOT BY : STEPHANIE POTTER





S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\SHEETSPLAN\TYPICALS\PROPOSED TYP.DWG FINISHED OLD GLEN FILE NAME : LAYOUT :

PLOT DATE PLOT TIME

PLOT BY : STEPHANIE POTTER



PLOT DATE : 12/11/2018 10:55 AM PLOT BY : STEPHANIE POTTER PLOT SCALE : 1'-0'' = 1'-0''



PLOT DATE PLOT TIME

PLOT BY : STEPHANIE POTTER





FILE NAME : S:\Projects\M08060 Monroe Co CTH W Bridge\SheetsPlan\Details\Construction Details2.dwg

2

PLOT DATE : 10/2/2018 2:23 PM PLOT BY : JULIA ZEHNER PLOT SCALE : 1'-0'' = 1'-0''



SHEET	_
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FILE NAME : S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\SHEETSPLAN\DETAILS\SIGNING AND PAVEMENT LAYOUT : MARTGUING.DWG

PLOT DATE : 12/11/2018 PLOT TIME : 10:56:16 AM PLOT BY : STEPHANIE POTTER





TIES TO C.P.#1 STA. 10+04; 30.38' RT. Y = 324,781.04 X = 743,363.20







		UTATION	
STATION	Y	Х	
12+00	324,985.66	743,356.32	BE

12+00	324,985.66	743,356.32	В
12+50	325,035.59	743,359.05	
12+96.18	325,081.70	743,361.57	E
13+00	325,085.51	743,361.78	
13+50	325,135.44	743,364.51	
13+68.76	325,154.17	743,365.53	E
14+00	325,185.36	743,367.23	
14+50	325,235.29	743,369.96	EÌ

	'A'-L	INE STATI	ON
STATION	Y	Х	
20'A'+13.61	325,195.08	743,381.37	
20'A'+40.63	325,195.08	743,408.39	
			(
20'A'+50	325,195.08	743,417.76	
21'A'+00	325,195.08	743,467.76	

▲ CONTROL POINTS

No.	STATION	DESCRIPTION	Y	х
1	10+04	3/4" IRON REBAR SET 30.38' RT.	324,781.04	743,363.20
2	14+00	3/4" IRON REBAR SET 19.69' LT.	325,186.77	743,347.59
3	15+93	3/4" IRON REBAR SET 16.84' RT.	325,379.64	743,390.43

CULVERT PIPE LAYOUT TABLE

				UPSTREAM			DOWNSTREAM	
	STATION	LOCATION	Y	X	ELEV.	Y	Х	ELEV.
	20'A'+66	'A'-LINE, LT.	325,224.33	743,425.57	1012.67	325,225.52	743,447.54	1011.74
	21'A'+00	'A'-LINE	325,216.08	743,467.76	1010.83	325,174.08	743,467.76	1010.59
	21'A'+24	'A'-LINE, RT.	325,169.74	743,520.50	1010.07	325,158.56	743,492.57	1009.93
PRC	DJECT N	0:5516-00	0-70	HWY: CTH	W		COUNTY: MO	ONROE

S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\SHEETSPLAN\DETAILS\ALIGNMENT & TIES.DWG LAYOUT2 FILE NAME : LAYOUT :

ALIGNMENT & TIES DETAIL PLOT DATE : PLOT TIME :

10/3/2018 2:05:40 PM

PLOT BY : JULIA ZEHNER

					5516-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	1.000	1.000
0004	201.0205	Grubbing	STA	1.000	1.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 13+35	LS	1.000	1.000
8000	204.0100	Removing Pavement	SY	2.000	2.000
0010	204.0150	Removing Curb & Gutter	LF	205.000	205.000
0012	204.0155	Removing Concrete Sidewalk	SY	100.000	100.000
0014	204.0190	Removing Surface Drains	EACH	1.000	1.000
0016	204.0210	Removing Manholes	EACH	1.000	1.000
0018	204.0220	Removing Inlets	EACH	1.000	1.000
0020	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	78.000	78.000
0022	205.0100	Excavation Common	CY	660.000	660.000
0024	206.1000	Excavation for Structures Bridges (structure) 01. B-41- 306	LS	1.000	1.000
0026	210.1500	Backfill Structure Type A	TON	345.000	345.000
0028	213.0100	Finishing Roadway (project) 01. 5516-00-70	EACH	1.000	1.000
0030	305.0110	Base Aggregate Dense 3/4-Inch	TON	90.000	90.000
0032	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	660.000	660.000
0034	416.0160	Concrete Driveway 6-Inch	SY	40.000	40.000
0036	455.0605	Tack Coat	GAL	40.000	40.000
0038	465.0105	Asphaltic Surface	TON	185.000	185.000
0040	465.0315	Asphaltic Flumes	SY	20.000	20.000
0042	502.0100	Concrete Masonry Bridges	CY	352.000	352.000
0044	502.3200	Protective Surface Treatment	SY	375.000	375.000
0046	502.3210	Pigmented Surface Sealer	SY	82.000	82.000
0048	505.0400	Bar Steel Reinforcement HS Structures	LB	6.780.000	6.780.000
0050	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	44,070.000	44,070.000
0052	513.7016	Railing Steel Type C3	LF	190.000	190.000
0054	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000
0056	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0058	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000
0060	550.0020	Pre-Boring Rock or Consolidated Materials	LF	96.000	96.000
0062	550.0500	Pile Points	EACH	12.000	12.000
0064	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	340.000	340.000
0066	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	295.000	295.000
0068	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	16.000	16.000
0070	602.0405	Concrete Sidewalk 4-Inch	SF	1,020.000	1,020.000
0072	606.0300	Riprap Heavy	CY	240.000	240.000
0074	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-	LF	26.000	26.000
	000.0012		<u> </u>	20.000	20.000

Estimate Of Quantities

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01/17/2019 11:02:39

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					Estimate Of	Quantities
					5516-00-70	
Line	ltem	Item Description	Unit	Total	Qty	
		Inch				
076	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18- Inch	LF	30.000	30.000	
078	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24- Inch	LF	125.000	125.000	
080	611.0420	Reconstructing Manholes	EACH	1.000	1.000	
0082	611.0535	Manhole Covers Type J-Special	EACH	2.000	2.000	
0084	611.0603	Inlet Covers Type A-S	EACH	1.000	1.000	
086	611.0639	Inlet Covers Type H-S	EACH	5.000	5.000	
8800	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000	
0090	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000	
0092	611.3230	Inlets 2x3-FT	EACH	5.000	5.000	
0094	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000	
0096	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000	
0098	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5516-00-70	EACH	1.000	1.000	
0100	619.1000	Mobilization	EACH	1.000	1.000	
0102	624.0100	Water	MGAL	6.000	6.000	
0104	625.0100	Topsoil	SY	425.000	425.000	
0106	628.1504	Silt Fence	LF	690.000	690.000	
0108	628.1520	Silt Fence Maintenance	LF	2,070.000	2,070.000	
0110	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
)112	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
0114	628.2002	Erosion Mat Class I Type A	SY	390.000	390.000	
0116	628.2008	Erosion Mat Urban Class I Type B	SY	45.000	45.000	
0118	628.7005	Inlet Protection Type A	EACH	6.000	6.000	
0120	628.7015	Inlet Protection Type C	EACH	6.000	6.000	
)122	629.0210	Fertilizer Type B	CWT	1.000	1.000	
)124	630.0140	Seeding Mixture No. 40	LB	8.000	8.000	
0126	630.0160	Seeding Mixture No. 60	LB	1.000	1.000	
)128	630.0200	Seeding Temporary	LB	4.000	4.000	
0130	633.5100	Markers Row	EACH	10.000	10.000	
0132	633.5200	Markers Culvert End	EACH	2.000	2.000	
0134	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	2.000	2.000	
0136	637.2210	Signs Type II Reflective H	SF	6.680	6.680	
0138	638.2602	Removing Signs Type II	EACH	6.000	6.000	
0140	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
0142	642.5001	Field Office Type B	EACH	1.000	1.000	
)144	643.0420	Traffic Control Barricades Type III	DAY	1.560.000	1.560.000	
)146	643.0705	Traffic Control Warning Lights Type A	DAY	2.500.000	2.500.000	

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					5516-00-70	
Line	ltem	Item Description	Unit	Total	Qty	
0148	643.0900	Traffic Control Signs	DAY	1,330.000	1,330.000	
0150	643.5000	Traffic Control	EACH	1.000	1.000	
0152	645.0111	Geotextile Type DF Schedule A	SY	110.000	110.000	
0154	645.0120	Geotextile Type HR	SY	450.000	450.000	
0156	646.1020	Marking Line Epoxy 4-Inch	LF	500.000	500.000	
0158	650.4000	Construction Staking Storm Sewer	EACH	10.000	10.000	
0160	650.4500	Construction Staking Subgrade	LF	205.000	205.000	
0162	650.5000	Construction Staking Base	LF	205.000	205.000	
0164	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	336.000	336.000	
0166	650.6500	Construction Staking Structure Layout (structure) 01. B- 41-306	LS	1.000	1.000	
0168	650.9910	Construction Staking Supplemental Control (project) 01. 5516-00-70	LS	1.000	1.000	
0170	650.9920	Construction Staking Slope Stakes	LF	205.000	205.000	
0172	690.0150	Sawing Asphalt	LF	95.000	95.000	
0174	690.0250	Sawing Concrete	LF	14.000	14.000	
0176	715.0502	Incentive Strength Concrete Structures	DOL	2,112.000	2,112.000	
0178	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	600.000	600.000	
0180	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	200.000	200.000	
0182	SPV.0060	Special 01. Adjusting Valve Boxes	EACH	2.000	2.000	
0184	SPV.0090	Special 01. Removing Sanitary Sewer	LF	105.000	105.000	
0186	SPV.0090	Special 02. Concrete Curb & Gutter 24-inch Type D	LF	25.000	25.000	
0188	SPV.0090	Special 03. Construction Staking Sidewalk	LF	180.000	180.000	

Estimate Of Quantities

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	C	LEARING & GRU	JBBING		RE	EMOVING CU	RB & GUT	TER		REMOVI	NG PAVEME	ENT		
	STATION-STATION LOCAT	201.010 CLEARII (STA.) CATEGORY ION 010	05 NG) WORK BY C OTHERS	201.0205 GRUBBING (STA.) ATEGORY WORK 010 OTHEI	BY STATION	- STATION LO(204.0150 (LF) ATEGORY 010 117	STATIC	ON - STATION		204.0100 (SY) CATEGORY 010		
	13+00 - 14+00 MAINLI 20'A'+50 - 21'A'+50 'A'-LINE	NE 1 , RT	- 1	1 - - 1	13+64	- 14+50 MAIN	ILINE, LT.	88	20'A'+3	39 - 20'A'+45	'A'-LINE, RT. TOTAL =	2		
	τοτα	LS = 1	1	1 1				200						
	REMO	VING CONCRET	E SIDEWAI	LK		REMOVING	MANHOLE	ES & SANI	TARY SEW	ER (NON-P	ARTICIPATI	NG)		
			204 	.0155 SY) WORK BY					204.0210 REMOVING MANHOLES (EACH)	SPV.0090.01 REMOVING SANITARY SEW (LF)	/ER			
	STATION - STATION 12+00 - 13+16	LOCATION MAINLINE, LT.	<u>010</u> 60	OTHERS		STATION - STATIO	DN LOC	CATION	CATEGORY 040	CATEGORY 040	DESCRI	PTION		
	13+65 - 14+50 21'A'+48	MAINLINE, LT. 'A'-LINE, LT.	40	- 7		12+46 - 13+01 13+01	MAINL	LINE, RT. LINE, RT.	- 1	55	8'' - CLA` -	YPIPE		12+
		TOTALS =	100	7		13+01 - 13+13	MA	INLINE		50	6" - CLA`	YPIPE		12+38 -
								TOTALS =	1	105				
								EARTH	VORK SUM	MARY				
					(1) 20	5.0100					E	XPANDED FILL		M
					EXCAVATIC Cl	UN COMMON	AVAI MAT		UNEXF		FA	(CY) CTOR 1.25		ORD
				-	CATEGORY	WORK BY	CATEGOR	Y) (2) Y WORK BY	CATEGORY	VORK BY	CATEGORY	(3) (CY) WORK BY	CATE	(CY EGORY
		STATION 12+00	- STATION - 14+50	MAINLINE	010 455	OTHERS	<u>010</u> 455	OTHERS	010	OTHERS -	010	OTHERS	0	010 155
		20'A'+13.61	- 20'A'+40.63	'A'-LINE	115	-	115	-	20	-	25	-	9	90
		20'A'+40.6	3 - 21'A'+80		- 30	860	- 30	860	-	4/	-	60		- 30
		DRIVE	WAYS	'A'-LINE	-	35	-	35	-	8	-	10	`	-
		STORM SEV	VER OUTLET	MAINLINE, RT.	60	-	60	-	-	-	-	-	6	60
				TOTALS =	660	895	660	895	20	55	25	70	6	335
		NOTES: 1.) SALVAGEI 2.) AVAILABLI 3.) EXPANDEI 4.) THE MASS CATEGORY.	D/UNUSABLE P E MATERIAL = D FILL FACTOF ORDINATE + C	AVEMENT MATERIAL I CUT R 1.25: EXPANDED FILI DR - QTY CALCULATED	S INCLUDED IN CUT - = (UNEXPANDED FI) FOR THE DIVISION	LL)*1.25 . PLUS QUANTITY I	NDICATES AN	I EXCESS OF	MATERIAL WITH		DRY. MINUS IND	ICATES A SHORTA	ge of mate	ERIAL WIT
		BASE AGGRE	GATE DEN	ISE		CONC		1/E14/4V 6.	INCH			ASPHALT	IC SURF	ACE
		-	305.01 BASE AGGF DENSE 3/4 (TON CATEGORY	10 3 REGATE BASE HINCH DENS I) WORK BY CATEGO	05.0120 AGGREGATE E 1 1/4-INCH (TON) RY WORK BY			411 	5.0160 (SY) EGORY				455. TACK (Ga CATEGORY	0605 COAT AL) WORK
	STATION - STATION	LOCATION	010	OTHERS 010	OTHERS	STATION	LOCATION		010	51A110N	- 314110N _	MAINLINE	32	
	12+00 - 14+50	MAINLINE	50	- 539	-	12+22	MAINLINE, ET	· ·	20	20'A'+13.61	- 20'A'+40.63	'A'-LINE	4	-
	20'A'+13.61 - 20'A'+40.63 20'A'+40 63 - 21'A'+80	A'-LINE A'-LINE	1	- 61 17 -	- 285	12+59	MAINLINE. LT		11	20'A'+40.6	3 - 21'A'+80	'A'-LINE	-	14
	DRIVEWAYS	MAINLINE	27		-						EVVAYS		- 4	- 1
	DRIVEWAYS		-	48 -	-		TOTAL	5=	40					
	-		90	<u> </u>								TOTALS =	40	15
\vdash		00 70						. 1						0
Ľ	LE NAME : S:\PROJECTS\MOROAD MON	UU- / U	SPLAN\DFTAILS\MIS		UH W					JNKUE	3			QUAN
E	LE MANIE . S: (FRUJEUIS (MUBUOU MUN	NOL OU OIN W DRIDGE (SHEED	SI CAN LUCIAILS (MIS	JELEANLOUS					PLUT DA	12/11/2018	٠	FLUIDI: SIEF	DANL FUTIER	



PLOT SCALE : 1" = 1'

			CONCRETE CUP	RB & GUTTER										<u>ALLA</u>							
			601 0411 CONCRETE CURB & GUTTER 30-INCH TYPE D (LF)	601.0415 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J (LF)	SPV 0090.02 CONCRETE CURB & GUTTEF 24-INCH TYPE D (LF)	650.5500 CONSTRUCTION R STAKING D CURB&GUTTER (LF)						520.1 APRON Ef FOR CL PIPE 13 (EA	1018 NDWALLS A JLVERT 8-INCH (CH)	520.1024 PRON ENDWALLS FOR CULVERT PIPE 24-INCH (EACH)	520.3318 CULVERT P CLASS III- 18-INCH (LF)	S 520.3 IPE CULVER A CLASS 24-IN (I F	8324 628 RT PIPE CUL S III-A F NCH CH F) (F	3.7555 *6 VERT M PIPE CUL ECKS C ACH) 6	33.5200 ARKERS VERT END :HECKS (EACH)	650.60 CONSTRU STAKI PIPE CUL ^V (EAC	000 ICTION NG VERTS H)
3	STATION-STATION 12+00 - 12+74 12+00 - 12+92 12+74 - 12+90 12+90 - 13+01 13+64 - 14+50 13+73 - 14+25 14+25 - 14+50	LOCATION MAINLINE, LT. MAINLINE, RT. MAINLINE, LT. MAINLINE, RT. MAINLINE, LT. MAINLINE, LT.	CATEGORY 010 74 92 - 11 66 52	CATEGORY 010 - - 16 - - - - -	CATEGORY 010 - - - - - 25	CATEGORY 010 74 92 16 11 66 52 25		21 21 21	TATION D'A'+66 1'A'+00 1'A'+24 -	LOCATIC 'A'-LINE, LT. 'A'-LINE, RT. UNDISTRIBI	0N (P.E.) (P.E.) (P.E.) UTED		2 2 2 2 2 2 4	UCHOIN WORK BY OTHERS - - - - - 2 - - -	- <u>OTHERS</u> - <u>22</u> - <u>30</u> - <u>52</u>	(L) (WOTH OTH 42 - - - - 42 - - - - - - - - - - - - -	2 2 2 2 2	Active Active<	ORK BY OTHERS - 2 - - 2	WORK <u>OTHE</u> 1 1 - - 3	BY RS
		TOTALS	= 295	16	25	336		*MORE	LISTED ELS	SEWHERE											
	<u>STATION - STATION</u> 12+00 - 13+03 13+74 - 14+50	CONCRETE S	SIDEWALK 4-INC 602.0405 CONCRETE SIDEWAL 4-INCH (SF) CATEGORY 010 607 413 1020	CH K CONSTRUC STAKING SIDE (LF) CATEGO 010 104 76 180	U03 ITION EWALK RY	PIPE NUMBER ST P-100 P-101 P-102 P-103 P-104 P-105 P-106 P-107	FROM <u>IRUCTURE</u> S 1-100 1-101 1-102 I-103 STMH-1 1-105 STMH-2	TO STRUCTURE I-101 STMH-1 I-103 STMH-1 I-105 STMH-2 EW-2	INLET ELEVATIC (FT) 1010.25 1009.20 1010.11 1009.14 1007.55 1013.30 1012.36 1011.02	OUTLE DN ELEVAT (FT) 1009.8 1008.0 1009.8 1009.8 1009.0 1009.8 1004.0 1012.8 1011.5 1010.0	et ION <u>%</u> 30 % 15 54 55 56 52 56 52 56 52	6 SLOPE 7.5 3.7 10.0 3.2 6.0 4.0 6.0 6.0 6.0 0 TALS =	STORM SE APRON ENDA CULVER REINFORCED 522.1018 18-INCH (EACH) CATEGORY 010 - - - - - - 1 1	WER PIPES WALLS FOR T PIPE CONCRETE 522.1024 24-INCH (EACH) CATEGORY 010 - - - 1 - - 1 - - 1 1 - - 1	RE 608.0312 12-INCH (LF) CATEGORY 010 9 - 6 - - 11 - - 26		ONCRETE PIPE RM SEWER 508.0318 18-INCH (LF) ATEGORY 010 - - - - 14 16 30	E CLASS III 608 24- (CATE - - - - - - - - - - - - - - - - - - -	.0324 INCH F) GORY 10 - 31 - 36 58 - - - 25	INFORMA PURPO ONI JOINT (EAC CATEC 01 - - - - - - - - - - - - - - - - - -	ATIONAL DSES LY TIES CH) GORY 0
												STC	ORM SEWI	ER STRUCTU	RES						
	RIF	PRAP HEAVY/	GEOTEXTILE TY	PE HR	ST	RUCTURE		ION	RIM ELEVATION (FT)	611.0535 MANHOLE COVERS TYPE J-SPECIAL (EACH) CATEGORY (611.063 INLET COVEF TYPE H-S (EACH CATEGO 010	39 611.0 T INLI RS COVE E TYP A-1 H) (EAC DRY CATEC 01	0603 611.2 ET ERS MANHC PE 4-F S DIAME CH) (EAC GORY CATEG 0 010	004 611.3004 DLES INLETS T 4-FT TTER DIAMETER CH) (EACH) GORY CATEGORY 0 010	611.3230 INLETS 2X3-FT (EACH) CATEGORY 010	STRUCTURE DEPTH (FT)	628.7005 INLET PROTECTIOI TYPE A (EACH) CATEGORY 010	628.70 INLET N PROTEC TYPE (EACH CATEGO 010	15 FLON MA C CULY () (DRY CA	33.5200 ARKERS VERT END EACH) TEGORY 010	650.4000 CONSTRUCTION STAKING STORM SEWER (EACH) CATEGORY 010
-	STATION - STATION 12+73 - 13+10 20'A'+26 - 20'A'+40.63 20'A'+40.63 - 21'A'+08	LOCATION MAINLINE, RT. 'A'-LINE, RT. 'A'-LINE, RT. UNDISTRIBUTED	* 606.0300 RIPRAP HEAVY (LF) CATEGORY WORK I 010 OTHER 67 - 14 - 14 - 67 - 3	*645.012 GEOTEXTILE T (SY) BY CATEGORY S 010 129 37 - - 14	20 TYPE HR OTHERS - 131 9	I-100 12+02.00 I-101 12+11.00 I-102 12+37.00 I-103 12+43.00 STMH 1 12+41.00 EW-1 12+86.00 I-104 13+80.21 I-105 13+91.21 STMH-2 13+91.21 EW-2 13+75.16	 MAINLINE, 1 MAINLINE, 2 MAINLINE, 2 MAINLINE, 2 MAINLINE, 2 MAINLINE, 1 MAINLINE, 4 MAINLINE, 4 MAINLINE, 1 MAINLINE, 1 MAINLINE, 3 MAINLINE, 3 MAINLINE, 3 	6.50' RT. 6.50' RT. 21.50' LT. 21.50' LT. 2.50' RT. 9.16' RT. 6.50' LT. 6.50' LT. 50.00' LT.	1013.25 1013.29 1013.11 1013.14 1013.47 - 1016.30 1016.72 1016.52		1 - 1 - 1 - 1 - -			- 1 - - - - - - -	1 - 1 - - 1 1 - - -	2.00 3.01 2.00 3.00 4.67 - 2.00 3.36 4.25	1 1 1 - - 1 1 -	1 1 1 - 1 1 - -		- - - 1 - - 1	1 1 1 1 1 1 1 1 1 1 1
	* MORE LISTED ELSEWHE	TOTALS =	90 70	180	140 ST. ST. ALI ST ST ST	DTES: IATION AND OFFSET O IATION AND OFFSET O LL RIM ELEVATIONS AF IRUCTURE DEPTH (INL IRUCTURE DEPTH (INL IRUCTURE DEPTH (MA IORE LISTED ELSEWHI	TC DF MANHOLE ST DF INLET STRU(RE MEASURED LET 2x3-FT) = RI LET 4-FT DIAME NHOLE 4-FT DI ERE	DTALS = TRUCTURES CTURES AR TO THE FLA IM ELEVATI(ETER) = RIM AM.) = RIM E	S ARE MEASU E MEASURED ANGE OF THE ON - INVERT ELEVATION - ELEVATION -	2 D TO FLANGE (INLET. LOWEST PIPE INVERT LOWE	5 ENTER C DF INLE E- 6 INCH E- 6 INCH EST PIPE	1 DF STRUCT T. HES (RINGS PE- 6 INCHES E- 6 INCHES	2 FURE. S) - 6 INCHES (ES (RINGS) - 7 S (RINGS) - 9 II	1 CASTING HEIGHT) INCHES (CASTING H NCHES (CASTING H	5 HEIGHT). HEIGHT).		6	6		2	10
	PROJECT NO: 55	16-00-70		HWY	/: CTH W				COUN	TY: MONRO	DE		1	MISCELLANE	OUS QUAI	NTITIES			SHE	ET	E
-		SO MONDOE CO CTU W DE								PLOT DATE .	10/23/2	2018	PI C		P	PLOT SCAL	Г. 1″ — 1'				



			624.0 (MG)	100 AL)		
	PROJECT	LOCATION	CATEGORY 010	WORK BY OTHERS		
-	5516-00-70	MAINLINE	6	3		
		TOTALS =	6	3	3	

SILT FENCE

	628.1 SILT FI (LF	504 ENCE	628.1 SILT FE MAINTEN (LF	520 ENCE NANCE ⁽⁾)
	CATEGORY	WORK BY	CATEGORY	WORK BY
LOCATION	010	OTHERS	010	OTHERS
/AINLINE, LT.	86	-	258	-
/AINLINE, RT.	165	-	495	-
MAINLINE	130	-	390	-
MAINLINE, LT	128	-	384	-
'A'-LINE, RT.	47	-	141	-
'A'-LINE, RT.	-	184	-	184
DISTRIBUTED	134	46	402	46
TOTALS =	690	230	2070	230

MARKERS ROW

POINT STAT 101 12+ 102 14+ 103 14+ 104 21+ 105 22+ 106 22+ 107 13+6 108 13+ 109 13+	ION LOCAT 00 MAINLINE, 1 50 MAINLINE, 1 50 MAINLINE, 2 00 MAINLINE, 2	TION 31.05, LT. 40.58, LT. 25.47, RT. 45.00, LT. 31.56, LT.	CATEGORY 010 1 1 1 -	WORK BY OTHERS - - 1
POINT STAT 101 12+ 102 14+ 103 14+ 104 21+ 105 22+ 106 22+ 107 13+6 108 13+ 109 13+	ION LOCAT 00 MAINLINE, 1 50 MAINLINE, 2 50 MAINLINE, 2 00 MAINLINE, 2	TION 31.05, LT. 40.58, LT. 25.47, RT. 45.00, LT. 31.56, LT.	010 1 1 1 -	OTHERS - - 1
101 12+ 102 14+ 103 14+ 104 21+ 105 22+ 107 13+6 108 13+ 109 13+	00 MAINLINE, 3 50 MAINLINE, 3 50 MAINLINE, 2 60 MAINLINE, 3 00 MAINLINE, 3 00 MAINLINE, 3 00 MAINLINE, 3 00 MAINLINE, 3	31.05, LT. 40.58, LT. 25.47, RT. 45.00, LT. 31.56, LT.	1 1 1 -	- - 1
102 14+ 103 14+ 104 21+ 105 22+ 106 22+ 107 13+6 108 13+ 109 13+	50 MAINLINE, 2 50 MAINLINE, 2 00 MAINLINE, 2 00 MAINLINE, 2 00 MAINLINE, 2 00 MAINLINE, 2	40.58, LT. 25.47. RT. 45.00, LT. 31.56, LT.	1 1 -	- - 1
103 14+ 104 21+ 105 22+ 106 22+ 107 13+6 108 13+ 109 13+	50 MAINLINE, 2 00 MAINLINE, 3 00 MAINLINE, 3 00 MAINLINE, 3	25.47. RT. 45.00, LT. 31.56, LT.	1 -	- 1
104 21+ 105 22+ 106 22+ 107 13+6 108 13+ 109 13+	00 MAINLINE, 00 MAINLINE, 00 MAINLINE, 1	45.00, LT. 31.56, LT.	-	1
105 22+ 106 22+ 107 13+6 108 13+ 109 13+	00 MAINLINE, 3 00 MAINLINE, 3	31.56, LT.		
106 22+ 107 13+6 108 13+ 109 13+	00 MAINLINE, 3		-	1
107 13+6 108 13+ 109 13+		34.64. RT.	-	1
108 13+ 109 13+	3.16 MAINLINE, 2	28.78. RT.	1	-
109 13+	05 MAINLINE, 3	31.00, RT.	1	-
	05 MAINLINE, S	53.00. RT.	1	-
110 12+9	2.55 MAINLINE, 6	63.08. RT.	1	-
111 12+	70 MAINLINE, 6	63.00. RT.	1	-
112 12+	60 MAINLINE, 3	32.71, RT.	1	-
113 12+0	3.96 MAINLINE, C	34.85. RT.	1	•
		TOTAL =	10	3

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PERM	ANENT SIGNING											
APPROX.SIGNSTATIONLOCATIONCODESIGN DESCRIPTION13+05MAINLINE, RT.W5-52RBRISGE HASH MARKS13+16MAINLINE, LT.W5-52LBRISGE HASH MARKS13+56MAINLINE, RT.W5-52LBRISGE HASH MARKS13+66MAINLINE, RT.W5-52RBRISGE HASH MARKS14+33MAINLINE, RT.R7-52NO PARKING BETWEEN SIGNS (ARF14+39MAINLINE, RT.R7-52NO PARKING BETWEEN SIGNS (ARF20'A'+29'A'-LINE, LT.R1-1STOP20'A'+32'A'-LINE, LT.R1-1STOPTOTALS =	SIZE (INCH X INCH) 12X36 12X36 12X36 12X36 12X36 20WS) 12x18 30X30 30X30 30X30	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT (EACH) CATEGORY 0 0 - - - 1 - 1 2	637.2210 SIGNS TYPE II REFLECTIVE H (SF) CATEGORY 010 - - - - 1.50 - 5.18 6.68	638.2602 REMOVING SIGNS S TYPE II (EACH) CATEGORY 0 010 1 1 1 1 1 1 - 6	638.3000 REMOVINC SMALL SIG SUPPORTS (EACH) CATEGOR 1 1 1 1 1 1 - 1 5 6			PROJECT 5516-00-7 	643.042 TRAFFIC COI BARRICAI TYPE II (DAY) CATEGO 0 0 1560 ALS = 1560	TRAFFIC CONT 0 643.0705 TRAFFIC CONTRO WARNING LIGHTS TYPE A (DAY) RY CATEGORY 010 2500 2500	ROL 643.0900 L TRAFFIC CONTROL SIGNS (DAY) CATEGORY 010 1330 1330	643.5000 TRAFFIC CONTR (5516-00-70) (EACH) CATEGORY 010 1 1
PAVEMENT MARKING 646.1020 MARKING LIN EPOXY 4-INC [LF] CATEGORY 12+00 - 14+50 LOCATION DESCRIPTION 010 TOTAL = 500	E H 	<u>S`</u> 20'A 20	TATION - STATION 12+00 - 14+50 '+13.61 - 20'A'+40.63 'A'+40.63 - 21'A'+80 -	- LOCATI MAINLII 'A'-LIN 'A'-LIN PROJEG	ON	650 4 SUBGF (LF ATEGORY 010 177 28 - - 205	500 RADE) WORK BY - - - 140 - - - 140 -	ONSTRUCTION 650.5000 BASE (LF) CATEGORY WORKI 010 OTHER 177 - 28 - 140 - 205 140	STAKING <u> CONSTRUCTIO</u> <u> 650.6500</u> STRUCTURE LA (B-41-306) (LS) (LS) CATEGOR' <u> 020 </u> - 1 1 1	N STAKING 650.9910 YOUT SUPPLEMENTAL C (5516-00-70 (LS) Y CATEGORY 010 - - 1 1	ONTROL 650.9) SLOPE 9 (L CATEGORY 010 177 28 - - 205	9920 STAKES F) WORK BY OTHERS - - - - - - - - - - - - - - - - - - -
SAWING ASPHALT/SA 63 SAWIN CATEGOR STATION LOCATION 12+00 MAINLINE 12+00 MAINLINE, LT. 12+34 MAINLINE, RT. 14+50 MAINLINE, LT. 21'A'+80 'A'-LINE TOTALS = 95	WING CONCRET 00.0150 G ASPHALT SAW (LF) Y WORK BY OTHERS - - - - - - - - - - - - -	690.0250 VING CONCRETE (LF) CATEGORY 010 7 7 - - 7 - 14							ADJUSTING VA STATION 14+38 14+50	LOCATION MAINLINE, LT. MAINLINE, LT. TOTAL =	ARTICIPATING) SPV.0060.01 (EACH) CATEGORY 040 1 1 2	
	HWY: CTH W			CC	DUNTY:	MONROE		MISC	ELLANEOUS	QUANTITIES		SHEET

E

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	PROPERTY LINE	PL (100')
ACCESS RIGHTS	AR	RECORDED AS	(100)
ACRES	AC	REFERENCE LINE	R/L
AND OTHERS	FTAL	RELEASE OF RIGHTS	ROR
DADN	0	REMAINING	REM.
	D.	RIGHT-OF-WAY	R/₩
CENTERUNE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	SHED	S.
CORNER	COR.	STATION	STA.
CONVEYANCE OF RIGHTS	CR	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
GARAGE	G.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	I CH
HOUSE	н.	LONG CHORD BEARING	LCB
HOUSE TRAILER	н.т.	RADIUS	R
LAND CONTRACT	LC	DEGREE OF CURVE	D
MONUMENT	MON.	CENTRAL ANGLE OR DELTA	
PAGE	Ρ.	LENOTH OF CURVE	I I
PERMANENT LIMITED EASEMENT	PLE	TANGENT	

CONVENTIONAL SYMBOLS

FOUND SURVEY MONUMENT (WITH POINT NUMBER) 01040 0 • (SET) R/W MONUMENT △ ▲ (SET) R/W STANDARD SIGN ISIGN SECTION CORNER MONUMENT ⊕ SECTION CORNER SYMBOL FEE (HATCH VARIES) 11/11 TEMPORARY LIMITED 1-10-50 EASEMENT PERMANENT LIMITED Keithick R/W BOUNDARY POINT RWB2D PARCEL NUMBER 8 92 UTILITY PARCEL NUMBER SIGN NUMBER (OFF PREMISE) 21-1)

PROPOSED R/W LINE	·
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & THE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	******
NO ACCESS (BY ACQUISTION)	
NO ACCESS (BY STATUTORY AUTHORITY)	0000000000000
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	- <u>1</u> - <u>7</u> -
ENCROACHMENT	€=D/TYPE
	BEGIN RELO
	STA, 12+00

Y= 324,985.66 X= 743,356.32

CONVENTIONAL UTILITY SYMBOLS

WATER	——————————————————————————————————————	SANITARY SEWER		-5AN
GAS	¢	STORM SEWER		– ss ——
TELEPHONE	<u> </u>		NON	
OVERHEAD	OH		COMPENSABLE	COMPENSABLE
TRANSMISSION LINES		POWER POLE	Ь	i
ELECTRIC	E	TELEPHONE POLE	ø	ø
CABLE TELEVISION	—— ту ——	TELEPHONE PEDESTA	ιĂ	×
FIBER OPTIC	F0	ELECTRIC TOWER	\bowtie	3

NOTES

BUILDING

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS) COORDINATES, MONROE COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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



LAYOUT 1/2 MI SCALE TOTAL NET LENGTH OF CENTERLINE = 0.047 MI.





NUMENTS COORDINATE TABLE PERMANENT DURD JV: RIGN REAR DURD JV: RIGH TO FUNCTION REAL DURD JV: RIGH TO FUNCTION DURD JV: RIGH TO FUNCTION	NUMENTS DESCRIPTION OUND ½"® IRON REBAR OUND ½"® IRON REBAR OUND ½"® IRON REBAR OUND ½"® IRON REBAR SEC. 10, T15N, R1E OUND ½"® IRON REBAR OUND ½"® IRON REBAR SEC. 10, T15N, R1E ORDER SEC. 10, T15N, R1E, COUNTY, W SEC. 10, T15N, R1E COUNT, W SEC. 10, T15N, R1E, COUNTY, W 786 AINLINE)= E ROAD) 55,195.08 S.3.367.76 INE SW¼-NW¼ P1 ILINE TABLE P1 ILINE SC20'18"W S0.76' <th>COORDIN PT.# STATIO 301 13+64.4 302 13+55.3 303 13+23.3 304 13+55.3 305 12+88.0 305 12+88.0 306 13+05.8 307 13+37.4 POINT 101 102 103 104 105 50 106 107 108 109 109 100 101 101 102 103 104 105 50 106 107 108 109 100 101 111 112 103 104 105 106 107 108 109 100 111 112 113 114 115 112 112 112 113 114 115 112 112 113 114 115 112 112 112 113 114 115 112 112 112 112 112 113 114 115 112 112 112 113 114 115 112 112 112 112 112 112 113 114 115 112 112 112 112 112 113 114 115 112 112 112 112 112 113 114 115 112 112 112 112 113 114 115 112 112 112 112 113 114 115 112 12 103 14 12 12 12 12 12 12 12 12 12 12</th> <th>DINATE TAE ED EASEME ED EASEME ED S38.74' R 90 39.07' R 32 76.34' RT 80 120.46' R 87 65.92' RT 90 10.14' RT 87 70 90 10.14' RT 10 105 10 105 10 105 10 111 10 102 10 114 10 115 10 31.05 LT. 0 31.05 LT. 0 31.06 RT. 0 31.06 RT. 0 31.00 RT. 0 31.00 RT. <</th> <th>BLE - PERM. ENT (PLE) P(Y 325147.78 325139.20 325104.63 T. 325085.72 325067.41 325085.78 325121.30 WAY LINE T/ BEARING N00'56'38"E S86'52'23"E S85'06'53"E S82'20'40"E S00'56'38"W S85'26'38"W S85'56'58"E S03'19'23"W S74'51'17"W S00'56'38"W S86'52'23"W S03'07'37"W N86'52'23"W S03'07'37"W N86'52'23"W C NEW R/W Y 324987.35 325226.64 325147.01 325088.81 325088.81</th> <th>ANENT DINTS X 743403.98 743403.83 743439.28 743479.28 74347.41 743427.92 743393.54 ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 174.32' 58.21' 22.00' 16.02' 174.32' 56.08' 31.89' 56.76' 743325.32 743325.32 743325.32 74335.39 743467.76' 743567.76' 743393.96' 743341.07'</th> <th>4</th>	COORDIN PT.# STATIO 301 13+64.4 302 13+55.3 303 13+23.3 304 13+55.3 305 12+88.0 305 12+88.0 306 13+05.8 307 13+37.4 POINT 101 102 103 104 105 50 106 107 108 109 109 100 101 101 102 103 104 105 50 106 107 108 109 100 101 111 112 103 104 105 106 107 108 109 100 111 112 113 114 115 112 112 112 113 114 115 112 112 113 114 115 112 112 112 113 114 115 112 112 112 112 112 113 114 115 112 112 112 113 114 115 112 112 112 112 112 112 113 114 115 112 112 112 112 112 113 114 115 112 112 112 112 112 113 114 115 112 112 112 112 113 114 115 112 112 112 112 113 114 115 112 12 103 14 12 12 12 12 12 12 12 12 12 12	DINATE TAE ED EASEME ED EASEME ED S38.74' R 90 39.07' R 32 76.34' RT 80 120.46' R 87 65.92' RT 90 10.14' RT 87 70 90 10.14' RT 10 105 10 105 10 105 10 111 10 102 10 114 10 115 10 31.05 LT. 0 31.05 LT. 0 31.06 RT. 0 31.06 RT. 0 31.00 RT. 0 31.00 RT. <	BLE - PERM. ENT (PLE) P(Y 325147.78 325139.20 325104.63 T. 325085.72 325067.41 325085.78 325121.30 WAY LINE T/ BEARING N00'56'38"E S86'52'23"E S85'06'53"E S82'20'40"E S00'56'38"W S85'26'38"W S85'56'58"E S03'19'23"W S74'51'17"W S00'56'38"W S86'52'23"W S03'07'37"W N86'52'23"W S03'07'37"W N86'52'23"W C NEW R/W Y 324987.35 325226.64 325147.01 325088.81 325088.81	ANENT DINTS X 743403.98 743403.83 743439.28 743479.28 74347.41 743427.92 743393.54 ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 174.32' 58.21' 22.00' 16.02' 174.32' 56.08' 31.89' 56.76' 743325.32 743325.32 743325.32 74335.39 743467.76' 743567.76' 743393.96' 743341.07'	4
DESCRIPTION DIFIE VIL:	DESCRIPTION OUND %"® IRON REBAR OUND 1%"® IRON REBAR OUND 2%"® IRON REBAR OUND %"® IRON REBAR OUND %" EAS OF THE 10, T15N, R1E, COUNTY, W EAS OF THE 10, T15N, R1E, COUNTY, W EAS OF THE 10, T15N, R1E, COUNTY, W EAS OF THE 10, T15N, R1E, COUNTY, W EAS OF THE 10, T15N, R1E, COUNTY, W 10, T15N,	PT.# STATIO 301 13+55.2 303 13+55.3 304 13+55.3 305 12+88.0 3061 13+05.6 307 13+37.4 900 13+37.4 901 13+37.4 901 101 102 13+37.4 901 101 102 103 103 14 104 105 901 100 111 102 103 14 104 105 901 100 111 112 113 114 115 114 111 112 113 114 115 111 111 112 113 114 115 114 111 115 111 112+00.00 114 12+03.91 114+50.00	RIGHT OFFSET RIGHT 06 RIGHT 07 RIGHT 0102 TO 103 TO 106 TO 107 TO 108 TO 109 TO 111 TO 112 TO 114 TO 115 TO 114 TO 115	Y Y 325147.78 325139.20 325104.63 325104.63 325104.63 325085.72 325085.72 325067.41 325087.78 325121.30 WAY LINE T/ BEARING N00'56'38"E S86'52'23"E S80'06'53"E S00'06'38"W S86'52'23"E S03'05'63"E S03'19'23"W S74'51'17"W S03'05'38"W S03'05'38"W S03'05'23"W S74'51'17"W S03'05'23"W S74'51'17"W S03'05'23"W S32'523.30 325233.90 325226.64 325147.01 325088.81 325088.81	X 743403.98 743403.83 743439.28 743439.28 743474.11 743427.92 743393.54 ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 56.08' 31.89' 56.76' 743325.32 743325.32 74335.39 743467.76' 743393.96' 743333.96' 743333.06'	4
UNITUDE of MICH REAR Constraints Start RT. Start RT. <td>UUND %"® IRON REBAR OUND %" IRON REBAR OUND %" EAST OF THE IO, T15N, R1E, CORPORATION (TYP.) ALLIANT ENERGY CORPORATION (TYP.) ALLIANT ENERGY CORE</td> <td>I.# STATIO 301 13+64.2 302 13+55.2 303 13+55.3 304 13+05.4 305 12+88.0 306 13+05.4 307 13+37.4 901 13+37.4 901 101 102 103 103 104 104 105 901 100 101 102 103 104 105 106 107 103 103 114 111 112 113 114 115 106 103 14+50.00 111 112 113 114 115 114+50.00 112+00.00 13+65.16 112+00.00 12+60.00 112+00.01 12+92.55 11 12+70.01 12+03.96 114 12+03.96</td> <td>RIGHT OFFSET 48 38.74' R 90 39.07' R 32 76.34' RT 80 120.46' R 70 13.45' RT 87 65.92' RT 90 10.102 10 102 10 102 10 104 10 105 10 105 10 105 10 100 10 114 10 115 10 31.05 LT. 0 31.05 LT. 0 31.06 RT. 0 31.00 RT. <td>Image: Constraint of the system T. 325147.78 325104.63 325085.72 325067.41 325087.78 325087.78 325121.30 WAY LINE T/ 325121.30 BEARING N00'56'38"E N85'06'53"E S86'52'23"E S85'34'47"W S00'56'38"W S86'52'23"E S33'9'23"W S74'51'17"W S00'56'38"W S03'9'23"W S74'51'17"W S03'0'32"W S74'51'17"W S03'0'37"W N86'52'23"W S325237.50 325233.90 325240.08 325226.64 325147.01 325088.81 325087.61 325147.01 325088.81 32508.81</td><td>^ 743403.98 743403.83 743473.83 743474.41 743427.92 743393.54 ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 174.32' 56.08' 34.85' 3.97' 31.05'</td><td>4</td></td>	UUND %"® IRON REBAR OUND %" IRON REBAR OUND %" EAST OF THE IO, T15N, R1E, CORPORATION (TYP.) ALLIANT ENERGY CORPORATION (TYP.) ALLIANT ENERGY CORE	I.# STATIO 301 13+64.2 302 13+55.2 303 13+55.3 304 13+05.4 305 12+88.0 306 13+05.4 307 13+37.4 901 13+37.4 901 101 102 103 103 104 104 105 901 100 101 102 103 104 105 106 107 103 103 114 111 112 113 114 115 106 103 14+50.00 111 112 113 114 115 114+50.00 112+00.00 13+65.16 112+00.00 12+60.00 112+00.01 12+92.55 11 12+70.01 12+03.96 114 12+03.96	RIGHT OFFSET 48 38.74' R 90 39.07' R 32 76.34' RT 80 120.46' R 70 13.45' RT 87 65.92' RT 90 10.102 10 102 10 102 10 104 10 105 10 105 10 105 10 100 10 114 10 115 10 31.05 LT. 0 31.05 LT. 0 31.06 RT. 0 31.00 RT. <td>Image: Constraint of the system T. 325147.78 325104.63 325085.72 325067.41 325087.78 325087.78 325121.30 WAY LINE T/ 325121.30 BEARING N00'56'38"E N85'06'53"E S86'52'23"E S85'34'47"W S00'56'38"W S86'52'23"E S33'9'23"W S74'51'17"W S00'56'38"W S03'9'23"W S74'51'17"W S03'0'32"W S74'51'17"W S03'0'37"W N86'52'23"W S325237.50 325233.90 325240.08 325226.64 325147.01 325088.81 325087.61 325147.01 325088.81 32508.81</td> <td>^ 743403.98 743403.83 743473.83 743474.41 743427.92 743393.54 ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 174.32' 56.08' 34.85' 3.97' 31.05'</td> <td>4</td>	Image: Constraint of the system T. 325147.78 325104.63 325085.72 325067.41 325087.78 325087.78 325121.30 WAY LINE T/ 325121.30 BEARING N00'56'38"E N85'06'53"E S86'52'23"E S85'34'47"W S00'56'38"W S86'52'23"E S33'9'23"W S74'51'17"W S00'56'38"W S03'9'23"W S74'51'17"W S03'0'32"W S74'51'17"W S03'0'37"W N86'52'23"W S325237.50 325233.90 325240.08 325226.64 325147.01 325088.81 325087.61 325147.01 325088.81 32508.81	^ 743403.98 743403.83 743473.83 743474.41 743427.92 743393.54 ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 174.32' 56.08' 34.85' 3.97' 31.05'	4
OPENE OPENE OPENE No. 1325087/80 7/8333.54 0001 13457.47 (23.76 RT.) 325087/80 7/8333.54 001 1557.47 (23.76 RT.) 325087/80 7/8333.54 001 1557.47 (23.76 RT.) 325087/80 7/8333.54 001 1557.47 (23.76 RT.) 325087/80 7/80 7/80 7/8333.54 001 1557.47 (23.76 RT.) 325087/80 7/80 7/80 7/80 7/80 7/80 7/80 7/8	SEC. 10, T15N, R1E CONTINUE EAST OF THE 10, T15N, R1E, COUNTY, W -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) 	306 13+05.8 307 13+37.4 POINT 101 102 103 104 105 50 106 107 108 109 100 107 108 109 100 111 112 113 114 105 50 106 107 108 109 100 111 112 113 114 115 50 106 107 108 109 100 107 108 109 107 108 109 107 108 109 107 108 109 107 108 109 107 108 109 107 108 109 107 108 109 107 108 109 107 108 109 107 108 107 108 109 107 108 109 107 108 109 107 108 109 111 112 113 114 115 114 115 114 115 114 112 113 114 115 114 112 113 114 115 114 112 114 112 113 114 115 114 112 114 115 114 112 114 114	87 65.92' RI 47 29.76' RT TO 29.76' RT TO POINT TO TO 102 TO TO 103 TO TO 104 TO TO 105 TO TO 106 TO TO 107 TO TO 108 TO TO 101 TO TO 111 TO TO 114 TO TO 114 TO TO 114 TO TO 31.05 LT. O 31.05 <lt.< td=""> 25.47<rt.< td=""> O 31.05<lt.< td=""> 34.64<rt.< td=""> S 53.00<rt.< td=""> 53.00<rt.< td=""> S 63.00<rt.< td=""> 53.00<rt.< td=""> S 63.00<rt.< td=""> 32.71<rt.< td=""></rt.<></rt.<></rt.<></rt.<></rt.<></rt.<></rt.<></lt.<></rt.<></lt.<>	 325087.78 325121.30 WAY LINE T/ BEARING N00'56'38"E S86'52'23"E S85'36'53"E S82'20'40"E S00'56'38"W S85'34'47"W S00'56'38"W S86'52'23"E S35'50'52"E S35'50'52"E S35'50'52"E S35'50'52"W S74'51'17"W S00'56'38"W S03'19'23"W S03'19'23"W S03'19'23"W S03'19'23"W S03'19'23"W S03'10'23"W S03'10'23"W S03'10'23"W S32'52'3.30'325233.90 325240.08 325088.81 325088.81 325088.81 	743427.92 743393.54 ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 174.32' 58.21' 22.00' 16.02' 174.32' 58.21' 22.00' 16.02' 174.32' 58.21' 22.00' 16.02' 174.32' 58.21' 22.00' 16.02' 174.32' 56.08' 34.85' 3.97' 31.05' X 743325.32 743325.32 743325.39 743467.76 743395.39 743467.76 743393.96 743393.96	4
CORDER Town Right of Point	DRDER T15N, R1E, T15N, R1E, T15N, R1E, COUNTY, WILLINE T15N, R1E, T15N, R1E, T25, 195, 08 AINLINE)= E ROAD) 25, 195, 08 S.3.367.76 Interstanding Interstanding J.NE SW4-NW4 Interstanding LINE SEC. 10, T15N, R1E, T0, T15N, R1E Interstanding LINE SEC. 10, T15N, R1E, T0, T15N, R1E Interstanding SSE34'47"W 164.28' SO056'38"W 8.59' S45'43'06"E 49.51' S66'20'18"W 48.02' S00'56'38"W 32.50'	POINT 101 102 103 103 104 105 106 107 108 109 110 111 112 113 114 115 COORDIN 11 112 113 114 115 COORDIN 112 113 11450.00 01 12+00.00 02 14+50.00 03 14+50.00 04 14+50.00 05 22+00.0 07 13+05.00 13 12+03.96 112+03.96 112+03.97	RIGHT OF TO POINT TO 102 TO 103 TO 104 TO 105 TO 106 TO 107 TO 108 TO 109 TO 1010 TO 107 TO 108 TO 109 TO 111 TO 112 TO 114 TO 115 TO 101	WAY LINE T/ BEARING N00'56'38"E S86'52'23"E N85'06'53"E S82'20'40"E S00'00'00"W S85'34'47"W S00'56'38"W S86'52'23"E S03'19'23"W S74'51'17"W S00'56'38"W N86'52'23"W S03'07'37"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 325233.90 325240.08 325226.64 325147.01 325088.81 325088.81	ABLE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 22.55' 31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.32 743325.33 743467.76 743395.39 743467.76 743393.96 743393.96 743393.96 743393.96 743393.96 743346.77	4
International and the set of the	JRDER 55,20 JANDER 15,20 LO, T15N, R1E, 11 11 10, T15N, R1E, 11 11 -ALLIANT ENERGY CORPORATION (TYP.) CORPORATION (TYP.) 786 AINLINE)= E ROAD) E ROAD) 55,195.08 3.367.76	POINT 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 COORDIN 1.450.00 02 1450.00 03 1450.00 04 12+00.00 05 22+00.0 06 22+00.0 07 13+05.00 13+05.00 12+03.91 12+03.91 12+03.92	Iteration Iteration TO POINT TO 102 TO 103 TO 104 TO 105 TO 106 TO 107 TO 108 TO 109 TO 111 TO 112 TO 114 TO 115 TO 110 TO 114 TO 115 TO 101	BEARING BEARING 8652/23"E 885053"E 88220'40"E 80000'00"W 88534'47"W 80056'38"W 88652'23"E 835350'56'38"W 8652'23"W 80310'23"W 8652'23"W 80310'23"W 8652'23"W 80310'37"W 8652'23"W 80310'37"W 8652'23"W 80310'37"W 8652'23"W 80310'37"W 8652'23"W 80310'37"W 8652'23"W 80310'37"W 8652'23"W 80310'37"W 8652'23"W 80310'37"W 8652'23"W	DISTANCE DISTANCE 250.18' 66.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 16.02' 174.32' 58.21' 22.05' 31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.32 743325.32 743325.32 743325.776 743567.76 743393.96 743393.96 743393.96 743393.96	4
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Internet Dia Internet Dia Internet Internet <thinternet< th=""> Internet <thintern< td=""><td>ALLIANT ENERGY COUNTY, WI -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) </td><td>102 103 104 105 105 106 107 108 109 110 111 112 113 114 115 COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 13+05.00 05 22+00.0 05 22+00.0 05 22+00.0 05 22+00.0 06 22+00.0 07 13+05.00 13 12+03.96 14 12+03.96</td><td>102 10103 10104 10105 10106 10107 10108 10109 10100 10100 10100 10110 10111 1012 10111 10112 10111</td><td>NGS 30 30 30 S86 52 23"E N85 06 53"E S82 20 40"E S82 20 40"E S85 34 47"W S00 00 00"W S85 34 47"W S00 56 38"W S35 50 56"E S03 19 23"W S03 56 38"W N86 52 23"W S03 07 37"W N86 52 23"W S03 07 37"W S03 07 56 38 S25 23 39 S25 24 0.08 S35 22 26 64 S35 10 .45 S35 10</td><td>200.163 660.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 160.22' 22.55' 31.89' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.32 743325.39 743467.76 743567.76 743393.96 743393.96 74344.07</td><td>4</td></thintern<></thinternet<>	ALLIANT ENERGY COUNTY, WI -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) -ALLIANT ENERGY CORPORATION (TYP.) 	102 103 104 105 105 106 107 108 109 110 111 112 113 114 115 COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 13+05.00 05 22+00.0 05 22+00.0 05 22+00.0 05 22+00.0 06 22+00.0 07 13+05.00 13 12+03.96 14 12+03.96	102 10103 10104 10105 10106 10107 10108 10109 10100 10100 10100 10110 10111 1012 10111 10112 10111	NGS 30 30 30 S86 52 23"E N85 06 53"E S82 20 40"E S82 20 40"E S85 34 47"W S00 00 00"W S85 34 47"W S00 56 38"W S35 50 56"E S03 19 23"W S03 56 38"W N86 52 23"W S03 07 37"W N86 52 23"W S03 07 37"W S03 07 56 38 S25 23 39 S25 24 0.08 S35 22 26 64 S35 10 .45 S35 10	200.163 660.05' 72.64' 100.90' 66.20' 174.32' 58.21' 22.00' 160.22' 22.55' 31.89' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.32 743325.39 743467.76 743567.76 743393.96 743393.96 74344.07	4
ID ID <thid< th=""> ID ID ID<!--</td--><td>AINLINE)= E ROAD) 55,195,08 3,367.76 INE SW¼-NW¼ SEC. 10, T15N, R1E LINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'</td><td>COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 06 22+00.0 07 13+65.16 08 13+05.00 09 13+05.00 09 13+05.00 11 12+70.00 12 12+03.96 11 12+03.96 14 12+03.96</td><td>10 105 10 10 10 110 10 110 10 111 10 112 2 10 11 113 10 114 10 115 5 10 11 115 5 10 10 115 10 31.05 10 31.05 10 31.05 10 31.65 10 31.66 10 31.66 10 31.66 10 31.66 10 31.66 10 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 <t< td=""><td>S00 56 38 "W S86:52/23"E S35:50'56"E S03:19'23"W S00'56'38"W N86'52'23"W S03:07'37"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 3252240.08 3252240.08 325226.64 325160.45 325147.01 325088.81 325088.81</td><td>22.00' 16.02' 22.55' 31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743329.44 743395.39 743467.76 743567.76 743393.96 743393.96 74344.97</td><td>4</td></t<></td></thid<>	AINLINE)= E ROAD) 55,195,08 3,367.76 INE SW¼-NW¼ SEC. 10, T15N, R1E LINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'	COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 06 22+00.0 07 13+65.16 08 13+05.00 09 13+05.00 09 13+05.00 11 12+70.00 12 12+03.96 11 12+03.96 14 12+03.96	10 105 10 10 10 110 10 110 10 111 10 112 2 10 11 113 10 114 10 115 5 10 11 115 5 10 10 115 10 31.05 10 31.05 10 31.05 10 31.65 10 31.66 10 31.66 10 31.66 10 31.66 10 31.66 10 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 11.00 31.00 <t< td=""><td>S00 56 38 "W S86:52/23"E S35:50'56"E S03:19'23"W S00'56'38"W N86'52'23"W S03:07'37"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 3252240.08 3252240.08 325226.64 325160.45 325147.01 325088.81 325088.81</td><td>22.00' 16.02' 22.55' 31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743329.44 743395.39 743467.76 743567.76 743393.96 743393.96 74344.97</td><td>4</td></t<>	S00 56 38 "W S86:52/23"E S35:50'56"E S03:19'23"W S00'56'38"W N86'52'23"W S03:07'37"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 3252240.08 3252240.08 325226.64 325160.45 325147.01 325088.81 325088.81	22.00' 16.02' 22.55' 31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743329.44 743395.39 743467.76 743567.76 743393.96 743393.96 74344.97	4
AINLINE1: 109 TO 110 S35'50'56"E 16.02' E ROADD 111 TO 111 S03'19'23'W 22.55' S150'50'50'E 111 TO 112 S74'51'17'W 31.89' 3.357'76 111 TO 112 S74'51'17'W 31.89' JALE S00'56'38'W 56.08' JINE SW½-NW¼ COORDINATE TABLE - NEW R/W POINTS PT.# STATION OFFSET Y JOI L2*00.00 31.05 LT 324987.35 743325.32 JOI L2*00.00 31.05 LT 3252540.08 743325.32 JOI L2*00.00 31.56 LT 3252540.08 743325.32 JOI L2*00.00 31.56 LT 3252540.08 743325.32 JOI 12*00.00 41.50 LT 3252540.08 743325.32 JOI 12*05.00 31.00 LT 325287.50 743325.32 JOI 12*05.00 31.00 RT 32504.08 743355.71 JOI 12*42.55 63.08 RT 32504.51 743355.73 JOI 12*42.55 63.08 RT 32504.52 743355.54 JOI 12*42.55 </td <td>AINLINE)= E ROAD) 25,195.08 3.367.76 INE SW¼-NW¼ SEC. 10, T15N, R1E ELINE TABLE BEARING DISTANCE S85'34'47''W 164.28' S00'56'38'W 8.59' S45'43'06''E 49.51' S66'20'18''E 47.12' S23'39'42''W 20.00' N66'20'18''W 50.76' N45'43'06''W 48.02' S00'56'38'W 32.50'</td> <td>109 110 111 112 113 114 115 COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 07 13+65.00 13 12+03.96 11 12+03.94 12+03.94</td> <td>0 100 110 0 TO 111 TO 112 113 2 TO 113 4 TO 114 5 TO 114 5 TO 101</td> <td>S3550'56"E S03'19'23"W S74'51'17"W S00'56'38"W N86'52'23"W N86'52'23"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 325233.90 325226.64 325160.45 325147.01 325088.81 325088.81</td> <td>16.02' 22.55' 31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.34 743325.39 743467.76 743567.76 743567.76 74339.36 74339.36 74339.36 74346.72</td> <td>4</td>	AINLINE)= E ROAD) 25,195.08 3.367.76 INE SW¼-NW¼ SEC. 10, T15N, R1E ELINE TABLE BEARING DISTANCE S85'34'47''W 164.28' S00'56'38'W 8.59' S45'43'06''E 49.51' S66'20'18''E 47.12' S23'39'42''W 20.00' N66'20'18''W 50.76' N45'43'06''W 48.02' S00'56'38'W 32.50'	109 110 111 112 113 114 115 COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 07 13+65.00 13 12+03.96 11 12+03.94 12+03.94	0 100 110 0 TO 111 TO 112 113 2 TO 113 4 TO 114 5 TO 114 5 TO 101	S3550'56"E S03'19'23"W S74'51'17"W S00'56'38"W N86'52'23"W N86'52'23"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 325233.90 325226.64 325160.45 325147.01 325088.81 325088.81	16.02' 22.55' 31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.34 743325.39 743467.76 743567.76 743567.76 74339.36 74339.36 74339.36 74346.72	4
LINE SW4-NW4 111 TO 112 S74'51'17'W 31.89' I.NE SW4-NW4 SW4-NW4 SW4-NW4 SW4-NW4 COORDINATE TABLE NB6'52'23'W 34.85' I.NE SW4-NW4 COORDINATE TABLE NB6'52'23'W 34.85' I.NE SW4-NW4 COORDINATE TABLE NEW POINTS I.NE SW2-NO.0034.64 T4325.7.50 T43325.32 I.2 101 12+00.00 3.05 T.325284.00 T43356.37 I.11 TIS+53.16 28.78 RT. 32504.00 T43393.00 T43393.00 I.11 12+10.00 53.00 RT. 325047.17 T43391.34 T43391.34 I.INE SE SE SE SE T43391.34 T43391.34 I.INE SE <td< td=""><td>LINE SW¼-NW¼ SEC. 10, T15N, R1E LINE TABLE BEARING</td><td>111 112 113 114 115 COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.00 07 13+65.06 08 13+05.00 12 12+03.96 12+03.94 12+03.94 12+03.95</td><td>TO 112 TO 113 TO 113 TO 114 TO 115 TO 101 NATE TABLE OFFSET 0 31.05 LT. 0 40.58 LT. 0 31.05 LT. 0 31.05 LT. 0 34.64 RT. 5 28.78 RT. 0 53.00 RT. 0 53.00 RT. 0 53.00 RT. 0 32.71 RT.</td><td>S74'51'17"W S00'56'38"W N86'52'23"W S03'07'37"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 325237.50 325226.64 3251240.08 325226.64 325147.01 325088.81 325088.81</td><td>31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.32 743325.39 743467.76 743567.76 743567.76 743393.96 743393.96 743393.96</td><td></td></td<>	LINE SW¼-NW¼ SEC. 10, T15N, R1E LINE TABLE BEARING	111 112 113 114 115 COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.00 07 13+65.06 08 13+05.00 12 12+03.96 12+03.94 12+03.94 12+03.95	TO 112 TO 113 TO 113 TO 114 TO 115 TO 101 NATE TABLE OFFSET 0 31.05 LT. 0 40.58 LT. 0 31.05 LT. 0 31.05 LT. 0 34.64 RT. 5 28.78 RT. 0 53.00 RT. 0 53.00 RT. 0 53.00 RT. 0 32.71 RT.	S74'51'17"W S00'56'38"W N86'52'23"W S03'07'37"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 325237.50 325226.64 3251240.08 325226.64 325147.01 325088.81 325088.81	31.89' 56.08' 34.85' 3.97' 31.05' / POINTS X 743325.32 743325.32 743325.39 743467.76 743567.76 743567.76 743393.96 743393.96 743393.96	
3.367.76 113 TO 114 N86752/237W 54.857 114 TO 115 S0307/37W 3.97' 3.97' 115 TO 101 N86752/237W 3.1.05' INE SWA-NWA COORDINATE TABLE - NEW R/W POINTS PT.# STATION OFFSET Y X 101 12400.00 31.05 T43325.32 T43325.32 102 14450.00 0.56 T 325237.50 T43325.32 102 14450.00 0.56 T 325240.08 T43325.32 103 14450.00 0.56 T 325240.08 T43355.39 104 12400.00 31.06 T 325266.45 T43567.76 105 12400.00 31.00 T 325087.61 T43414.97 110 1242.56 63.00 RT. 325087.61 T43423.00 109 13495.00 0.20 RT. 325087.61 T43423.00 113 11240.00 32.00 RT. 325087.61 T43423.00 114 1240.05 0.00 324985.65 T43352.36 111	ALINE SW¼-NW¼ INE SW¼-NW¼ SEC. 10, T15N, R1E ELINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'	COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 06 22+00.0 07 13+63.16 08 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 12+03.96 11 12+03.96 14 12+03.96	ATE TABLE 0 31.05 LT. 0 40.58 LT. 0 31.05 LT. 0 40.58 LT. 0 40.58 LT. 0 31.06 LT. 0 31.66 LT. 0 34.64 RT. 5 8.78 RT. 0 31.00 RT. 0 53.00 RT. 0 53.00 RT. 0 32.71 RT.	N86'52'23"W S03'07'37"W N86'52'23"W - NEW R/W Y 324987.35 325237.50 325233.90 325240.08 325226.64 325160.45 325147.01 325088.81 325088.81	34.85' 3.97' 31.05' 7' Y POINTS X 743325.32 743325.32 743325.39 743467.76 743567.76 743393.96 743393.96 74344.97	
INE SUS 07.37 m 3.97 INE SW3-NW4 115 TO 101 N8652/23TW 31.05" INE SW4-NW4 COORDINATE TABLE - NEW R/W POINTS Y X ID1 12+00.00 3L05 LT. 324987.35 743325.32 ID2 14+50.00 40.58 LT. 325237.50 743325.32 ID2 14+50.00 45.00 LT. 325226.64 743355.39 ID4 21+00.00 34.64 RT. 325160.45 743357.76 ID7 13+53.16 28.78 RT. 325160.45 743357.76 ID7 13+53.16 28.78 RT. 325160.45 743357.76 ID7 13+53.16 28.78 RT. 325160.45 743357.76 ID7 12+25.55 63.06 RT. 325047.61 743357.36 ID1 12+25.55 63.06 RT. 325047.61 743355.54 ID1 12+25.50 44.00 VLT. 324989.52 743355.32 ID1 12+25.00 44.00 VLT. 325047.17 743327.96 ID20	LINE SW¼-NW¼ SEC. 10, T15N, R1E BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'	COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 06 22+00.0 07 13+63.16 08 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 12+03.96 14 12+03.96	NATE TABLE OFFSET 0 31.05 LT. 0 40.58 LT. 0 40.58 LT. 0 45.00 LT. 0 31.65 LT. 0 31.65 LT. 0 34.64 RT. 5 28.78 RT. 0 31.00 RT. 0 53.00 RT. 5 63.00 RT. 0 63.00 RT. 0 32.71 RT.	- NEW R/W 324987.35 325237.50 325233.90 325240.08 325226.64 325147.01 325088.81 325088.81	X 743325.32 743325.32 743329.44 743395.39 743467.76 743567.76 743567.76 743393.96 743393.96 74346.72	
INE SWA-NWA COORDINATE TABLE – NEW R/W POINTS PT.# STATION OFFSET Y X IDI 12400.00 3L05 LT. 324987.35 743325.32 IDI 12400.00 3L05 LT. 325237.50 743325.32 IDI 12400.00 45.00 LT. 325237.90 743325.39 IDI 12400.00 45.00 LT. 325267.66 743359.39 IDI 12450.00 34.64 RT. 325160.45 743357.76 IDI 12452.55 63.06 RT. 325047.61 743357.30 IDI 12452.55 63.06 RT. 325047.61 743356.37 IDI 12450.50 53.00 RT. 325047.61 743356.37 IDI 12450.50 32.00 324985.62 743356.32 IDI 12450.30 63.00 RT. 325043.79 743325.36 IDI 12450.30 64.00 UT. 324985.62 743325.36 IDI 12450.00 40.00 UT. 325017.45 743317.20	LINE SW¼-NW¼ PT C LINE SW¼-NW¼ SEC. 10, T15N, R1E BEARING DISTANCE S85'34'47'W 164.28' S00'56'38'W 164.28' S00'56'38'W 20.00' N66'20'18''E 47.12' S23'39'42'W 20.00' N66'20'18''E 47.12' S23'39'42'W 20.00' N66'20'18''W 32.50'	COORDIN T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 06 22+00.0 07 13+65.16 08 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 12+60.00 13 12+03.96 14 12+03.96	NATE TABLE OFFSET 0 31.05 LT. 0 40.58 LT. 0 45.00 LT. 0 31.56 LT. 0 31.66 LT. 0 34.64 RT. 0 31.00 RT. 0 31.00 RT. 0 53.00 RT. 0 63.00 RT. 0 32.71 RT.	- NEW R/W Y 324987.35 325237.50 325233.90 325226.64 325160.45 325147.01 325088.81 325088.81	X 743325.32 743329.44 743395.39 743467.76 743567.76 743567.76 743593.96 743393.96 743349.07	
PT.# STATION OFFSET Y X 101 12+00.00 3L05 LT. 324987.35 743325.32 102 14+50.00 25.47 7432231.50 743325.32 103 14+50.00 25.47 71.325231.50 743395.39 104 21+00.00 45.00 LT. 325240.00 743467.76 105 22+00.00 3L64 RT. 32504.01 743393.396 106 22+00.00 3L64 RT. 32506.45 743393.306 108 13+05.00 53.00 RT. 325088.81 743393.306 109 13+05.00 53.00 RT. 325084.17 74332.55 111 12+02.06 63.00 RT. 325043.79 743325.36 113 12+03.96 3.485 RT. 325043.79 743325.36 120 12+02.00 3L12'LT. 32508.81 743325.36 743325.36 120 12+03.96 3.400'LT. 32504.74 743327.38 <	LINE SEC. 10, T15N, R1E LINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 48.02' S00'56'38"W 32.50'	T.# STATION 01 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.00 06 22+00.00 07 13+63.16 08 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 12+03.96 13 12+03.96 14 12+03.96	 OFFSET 0 31.05 LT. 0 40.58 LT. 0 25.47 RT. 0 31.66 LT. 00 31.66 LT. 00 34.64 RT. 528.78 RT. 0 53.00 RT. 0 32.71 RT. 	Y 324987.35 325237.50 325233.90 325240.08 325226.64 325160.45 325147.01 325088.81 325088.81	X 743325.32 743329.44 743395.39 743467.76 743567.76 743567.76 743393.96 743393.96 743393.07	
Initian Initian <t< td=""><td>LINE SEC. 10, T15N, R1E BEARING DISTANCE S85'34'47'W 164.28' S00'56'38'W 8.59' S45'43'06'E 49.51' S66'20'18'E 47.12' S23'39'42'W 20.00' N66'20'18'W 50.76' N45'43'06'W 48.02' S00'56'38'W 32.50'</td><td>1 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 05 22+00.0 07 13+63.16 09 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 122+03.96 13 12+03.96 14 12+03.96</td><td>0 31.05 LT. 0 40.58 LT. 0 45.00 LT. 0 31.56 LT. 0 34.64 RT. 5 28.78 RT. 0 31.00 RT. 0 31.00 RT. 0 53.00 RT. 5 63.08 RT. 0 63.00 RT. 0 32.71 RT.</td><td>324987.35 325237.50 325233.90 325240.08 325226.64 325160.45 325147.01 325088.81 325087.61</td><td>743325.32 743329.44 743395.39 743467.76 743567.76 743567.76 743393.96 743393.00 74344.02</td><td></td></t<>	LINE SEC. 10, T15N, R1E BEARING DISTANCE S85'34'47'W 164.28' S00'56'38'W 8.59' S45'43'06'E 49.51' S66'20'18'E 47.12' S23'39'42'W 20.00' N66'20'18'W 50.76' N45'43'06'W 48.02' S00'56'38'W 32.50'	1 12+00.00 02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 05 22+00.0 07 13+63.16 09 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 122+03.96 13 12+03.96 14 12+03.96	0 31.05 LT. 0 40.58 LT. 0 45.00 LT. 0 31.56 LT. 0 34.64 RT. 5 28.78 RT. 0 31.00 RT. 0 31.00 RT. 0 53.00 RT. 5 63.08 RT. 0 63.00 RT. 0 32.71 RT.	324987.35 325237.50 325233.90 325240.08 325226.64 325160.45 325147.01 325088.81 325087.61	743325.32 743329.44 743395.39 743467.76 743567.76 743567.76 743393.96 743393.00 74344.02	
102 14+50.00 40.58 11. 325237.50 743395.39 103 14+50.00 25.47 RT. 325235.40 RT.3395.39 104 21+00.00 31.56 LT. 325236.44 743395.39 105 22+00.00 31.66 LT. 325236.44 743367.76 105 22+00.00 31.66 LT. 325160.45 743393.39 106 22+00.00 31.00 RT. 325160.45 743393.30 109 13+05.00 53.00 RT. 325074.63 743424.35 100 12+92.55 63.08 RT. 325074.63 743424.35 111 12+03.96 0.00 324989.62 743356.54 743356.32 113 12+03.96 0.00 324989.55 743325.36 202 12+35.00 40.00'LT. 325074.63 743224.35 113 12+03.96 0.00 324989.52 743325.36 202 12+10.00 30.00 743312.20 113 12+03.96 0.00 324989.55 743325.36 202 1212402.00 31.12'LT. <td>LINE SEC. 10, T15N, R1E E LINE TABLE BEARING DISTANCE S85'34'47'W 164.28' S00'56'38'W 164.28' S00'56'38'W 20.00' N66'20'18''E 47.12' S23'39'42'W 20.00' N66'20'18''W 50.76' N45'43'06''W 48.02' S00'56'38'W 32.50'</td> <td>02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 06 22+00.0 07 13+63.16 08 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 12+60.00 13 12+03.96 14 12+03.96</td> <td>0 40.58 LT. 0 25.47 RT. 0 45.00 LT. 0 31.56 LT. 0 34.64 RT. 28.78 RT. 0 31.00 RT. 0 53.00 RT. 0 63.00 RT. 0 32.71 RT.</td> <td>325237.50 325233.90 325240.08 325226.64 325160.45 325147.01 325088.81 325087.51</td> <td>743329.44 743395.39 743467.76 743567.76 743567.76 743567.76 743393.96 743393.00 743344.02</td> <td></td>	LINE SEC. 10, T15N, R1E E LINE TABLE BEARING DISTANCE S85'34'47'W 164.28' S00'56'38'W 164.28' S00'56'38'W 20.00' N66'20'18''E 47.12' S23'39'42'W 20.00' N66'20'18''W 50.76' N45'43'06''W 48.02' S00'56'38'W 32.50'	02 14+50.00 03 14+50.00 04 21+00.00 05 22+00.0 06 22+00.0 07 13+63.16 08 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 12+60.00 13 12+03.96 14 12+03.96	0 40.58 LT. 0 25.47 RT. 0 45.00 LT. 0 31.56 LT. 0 34.64 RT. 28.78 RT. 0 31.00 RT. 0 53.00 RT. 0 63.00 RT. 0 32.71 RT.	325237.50 325233.90 325240.08 325226.64 325160.45 325147.01 325088.81 325087.51	743329.44 743395.39 743467.76 743567.76 743567.76 743567.76 743393.96 743393.00 743344.02	
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Image: Constraint of the system of	LINE SEC. 10, T15N, R1E LINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'	06 22+00.0 07 13+63.16 08 13+05.00 09 13+05.00 10 12+92.55 11 12+70.00 12 12+60.00 13 12+03.96 14 12+03.96	00 34.64 RT. 28.78 RT. 0 31.00 RT. 0 53.00 RT. 5 63.08 RT. 0 63.00 RT. 0 32.71 RT.	325160.45 325147.01 325088.81	743567.76 743393.96 743393.00 743414.02	
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LINE 109 12+92.05 63.00 RT. 32507.46.3 74344.37 LINE S 63.00 RT. 32507.46.3 743424.35 III 12+70.00 63.00 RT. 325052.12 743423.05 III 12+70.00 63.00 RT. 325087.72 743391.34 III 12+03.96 34.85 RT. 324985.66 743356.54 III 12+00.00 0.00 324985.66 743356.32 III5 12+00.00 0.00 324985.66 743356.32 III5 12+00.00 0.00 324989.52 743325.36 III5 12+00.00 0.00 324989.55 743327.36 III6 12+02.00 312' II. 32502.43 743327.36 201 12+62.00 312' II. 32503.41.17 743327.38 201 12+62.00 312.50 R1.32504.94.5 743327.38 205 13+60.00 42.00 RI 32503.21 743324.03 205 13+60.00 RI. 32503.21 743324.03 743327	LINE SEC. 10, T15N, R1E E LINE TABLE BEARING DISTANCE S85'34'47'W 164.28' S00'56'38'W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42'W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38'W 32.50'	10 12+92.55 10 12+92.55 11 12+70.00 12 12+60.00 13 12+03.96 14 12+03.96	5 63.00 RT. 5 63.00 RT. 0 63.00 RT. 0 32.71 RT.	1 1 2 5 1 1 4 7 1 1 1	// 5/1///	
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Image: Section of the sectio	E LINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'					1
202 12+5.00 40.00° LT. 32502.82 743317.20 203 13+25.00 34.00° LT. 325112.87 743319.21 204 13+25.00 35.81° LT. 325112.87 743327.38 204 13+25.00 37.15° LT. 325112.87 743327.38 204 13+25.00 37.15° LT. 325112.43 743327.38 205 13+60.00 42.00° LT. 32517.45 743327.38 205 13+60.00 42.00° LT. 325047.41 743327.40 206 13+60.00 42.00° LT. 325047.45 74332.4.03 3005'6'38'W 8.59' 209 12+70.00 112.00° 743317.20 208 21+36.00 35.59 743307.63 74332.4.03 74332.5.13 209 12+70.00 112.00° RT. 325032.71 743396.95 210 12+61.75 38.00° RT. 32502.24 743391.53 212 12+49.13 <td>LINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'</td> <td>201 12+02.0</td> <td>00 31.12' LT.</td> <td>324989.35</td> <td>743325.36</td> <td>1</td>	LINE TABLE BEARING DISTANCE S85'34'47"W 164.28' S00'56'38"W 8.59' S45'43'06"E 49.51' S66'20'18"E 47.12' S23'39'42"W 20.00' N66'20'18"W 50.76' N45'43'06"W 48.02' S00'56'38"W 32.50'	201 12+02.0	00 31.12' LT.	324989.35	743325.36	1
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LLARING DISTANCE 201 (14+50.00 46.00* 11. 325 (37.80) 743324.03 S85'34'47'W 164.28' 208 (21+36.00 35.9' RT. 325 (55.50) 743503.76 S00'56'38'W 8.59' 209 (21+36.00 39.59' RT. 325 (55.50) 743503.76 S00'56'38'W 8.59' 209 (21+70.00 112.00' RT. 325 (55.50) 743397.63 S66'20'18''E 47.12' 211 12+49.20 38.00' RT. 325 (52.4) 743393.53 S23'39'42''W 20.00' 213 12+49.20 38.00' RT. 325 (50.2.4) 743393.53 S23'39'42''W 20.00' 213 12+49.20 38.00' RT. 325 (50.2.4) 743393.53 S00'56'38''W 32.50' 215 12+18.71 40.00' RT. 325 (50.2.4) 743393.20 S00'56'38''W 32.50' 216 12+18.71 40.00' RT. 32493.76 743391.44 LOCATED IN R/W PARCEL #	S85'34'47'W 164.28' S00'56'38'W 8.59' S45'43'06'E 49.51' S66'20'18'E 47.12' S23'39'42'W 20.00' N66'20'18'W 50.76' N45'43'06'W 48.02' S00'56'38'W 32.50'	205 13+60.0	00 87.15° LT.	325147.45	743327.96	1
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N45'43'06''W 48.02' 215 12+10.00 40.00' RT. 324993.46 743396.81 S00'56'38''W 32.50' 216 12+10.00 34.62' RT. 324993.76 743391.44 EASEMENT TABLE NG INFORMATION R/W PARCEL # REMARKS #650049 4 5'X5' SQUARE EASEMENT AREA NEAR STA. 14+00, 38.5' LT 43.5' LT. 43, VOL.137, PG.587 3 BLANKET EASEMENT 43, VOL.137, PG.592 3 BLANKET EASEMENT OVER R/W PARCEL 3 304, VOL.137, PG.592 3 BLANKET EASEMENT OVER R/W PARCEL 3 TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM THE BLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT PROPOSE FURDONER'S NOT NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT PROPOSE	N45'43'06"W 48.02' S00'56'38"W 32.50'	213 12+18.5 214 12+18.7	7 36.02' R 1 40.00' R	T. 325002.24 T. 325002.16	743393.30 743397.28	
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BLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT	TOTAL ACRES COLUMN MAY	3	E	VER R/W PARC		
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WISDOT/CADDS SHEET 75





Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08в09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D18-02	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
12A03-10	NAME PLATE (STRUCTURES)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-06В	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



6

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING

1" DIAGONAL BARS WITH 11/2" OPENINGS



SPECIAL GRATE FOR

TYPE "A" COVER (MEASURES 19 ⅔4" X 17" X 1 ⅔" (NOTED AS TYPE A-S ON DRAINAGE TABLE)

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INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 11-27-13 DATE

FHWA

/S/ Jerry H.Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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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. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO MI99 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT.5 INCHES FOR 4-FT.6 INCHES FOR 5-FT.7 INCHES 1 MINIMUM WALL IHICKNESS SHALL DE 4 HIGHES FOR STATES TO STATES TO

(2) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(3) PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS

J'S	к	L	м
		х	
	x		х

х

IPE DIAMETER PIPES		
	90° SEPARATION (IN)	
	12	
	18	
	24	
	36	
	36	
	42	

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT 7-FT AND 8-FT DIAMETER

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED Sept., 2016 DATE FUWA

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE

(1) MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

ALL B'S	B₩	С	F	ALL H'S	S	т	۷	WM	Z
		х							х
х					х		х		
		х							х
x					х		х		
	х				х	х	х	X	
				х					
			х						

PIPE MATRIX

INLET	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES			
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-F T	15	12		
4-F T	24	18		

INLETS 3-FT AND 4-FT DIAMETER			
DEPART	STATE OF WISCONSIN MENT OF TRANSPORTATION		
APPROVED			
Sept., 2016	/S/ Rodney Taylor		
DATE	ROADWAY STANDARDS DEVELOPMENT		
FHWA	UNIT SUPERVISOR		

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GENERAL NOTES

ENGINEER.

EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	AL
	WIDTH (W)(FT)	LENGTH () (FT)		
2X2-FT	2	2	x	
2X2.5-FT	2	2.5		
2X3-FT	2	3		
2.5X3-FT	2.5	3		

PIPE MATRIX

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	MAXIMUM INSIDE PIPE DIAMETER		
INLET SIZE	WIDTH (IN)	LENGTH (IN)	
2X2-FT	12	12	
2X2.5-FT	12	18	
2X3-FT	12	24	
2.5X3-FT	18	24	

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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- SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION
- INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB &
- WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT
- UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

* BIKE LANE IS NOT SHOWN.

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CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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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.

- $\textcircled{\sc 1}$ horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF $1/_8$ " 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.







SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE ဖ 6 STATE OF WISCONSIN ш DEPARTMENT OF TRANSPORTATION ω APPROVED Δ 4-29-05 /S/ Beth Cannestra DATE CHIEF ROADWAY DEVELOPMENT ENGINEER Δ FHWA ഗ



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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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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

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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 THE APPLICABLE SPECIAL PROVISIONS.

A STEEL MARKER POST FOR RIGHT-OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY, WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFORMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. R/W AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

(1) IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK TO A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3'10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR.

FILL THE BORE HOLE WITH CEMENT GROUT, OR EQUIVALENT. DEPENDING ON THE



MIN. WEIGHT 1.12 LB./FT. SECTION A-A

> THREE ⅔" X ⅔" GALVANIZED STEEL BOLTS WITH GALVANIZED LOCKWASHER AND NUT OR GALVANIZED SELF-LOCKING NUT



SECTION B-B

THREE ⅔" X ⅔" GALVANIZED STEEL BOLTS WITH GALVANIZED LOCKWASHER AND NUT OR GALVANIZED SELF-LOCKING NUT

DO NOT SPLICE BELOW GRADE





FLEXIBLE MARKER POST

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FOR CULVERT END

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE. BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY. SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS. ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES. TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE. THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS. "WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE. ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36". LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING). R11-2 AND R11-3 SIGNS. INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN. DIRECTIONS AND ARROWS AS APPROPRIATE. BARRICADES AND SIGNS

THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION. FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D. FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E. FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL

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

- (2)
- (3)
- (4)
- (5)
- (6)
- (7)

FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Sept. 2015 DATE FHWA

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE. IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS

RE-ESTABLISHED.

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

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

> *OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT.OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

FHWA

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GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

LEGEND

"T" MARKING

POST MOUNTED SIGN

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LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 /S/ Matthew R. Rauch DATE STATE SIGNING AND MARKING ENGINEER

FHWA

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DEPARTMENT OF TRANSPORTATION

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WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER: A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3 B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3 THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS. WOOD POSTS (4" x 4" or 4" x 6") LAG SCREWS - 3/8" X 3" MACHINE BOLTS - 5/6" X 6-1/2" OR 7" LENGTH W/ NUTS SOUARE STEEL POSTS (2" x 2") MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS RIVETS - 3/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL 0.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH WASHERS (ALL POSTS) -1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL 1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS * TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER

OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
APPROVED					
June 2017	/S/ Andrew Heidtke				
DATE	WORK ZONE ENGINEER				
FHWA					

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PROJECT NO:	HWY:	COUNTY:	

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

7

PLOT DATE : 21-AUG-2017 16:04 PLOT BY : \$\$...plotuser...\$\$ PLOT 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 barrier wall, see 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or $6'-3''(\pm)$ depending upon existence 4. J-Assemblies are considered to be one sign for mounting height. 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (±). 6. Offset distance shall be consistent with existing signs or consistent throughout length of project. 7. The (+) tolerance for mounting 8. Folding signs shall be mounted at a height of $5'-3''(\pm)$ or as directd by the Engineer. 9. The Double Arrow sign (W12-1) 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 $4'-3''(\pm)$. TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS WISCONSIN DEPT OF TRANSPORTATION APPROVED Matthew & Raus for State Traffic Engineer DATE 8/21/17 SHEET NO: Ε PLOT SCALE : 100.601251:1.000000 WISDOT/CADDS SHEET 42





PROJECT NO:

7

with ASTM Designation: A 153, Class D, or SC 3

 $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

er	ATTACHMENT OF SIGNS				
1+	TO POSTS				
)n,	WISCONSIN DEPT OF TRANSPORTATION				
	APPROVED Matthew R Rauch				
	for State Traffic Engineer				
	DATE <u>8/11/16</u> PLATE NO. <u>A4-8.8</u>				
	SHEET NO: E				



FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

PLOT DATE : 22-AUG-2017 07:19 PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

7

NOTES

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

STANDARD SIGN
R1-1
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch For State Traffic Engineer
DATE <u>11/12/15</u> PLATE NO. <u>R1-1.13</u>
SHEET NO: E
PLOT SCALE : 4.427909:1.000000 WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R752.dgn

PLOT DATE : 31-MAR-2011 13:07

PLOT NAME :

PLOT BY : mscsja

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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.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
                         U->
                        ARROW DETAIL
                           Area
sq. ft.
                                          STANDARD SIGN
                       Ζ
                            1.5
                                               R7-52
                           3.0
                                        WISCONSIN DEPT OF TRANSPORTATION
                           5.0
                                      APPROVED
                           5.0
                                             Matthe
                                              for State Traffic Engineer
                                      DATE <u>3/31/2011</u>
                                                   PLATE NO. R7-52.6
                                               SHEET NO:
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PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



PLOT BY : BOLAND, PATRICK

5516-00-70

DESIGN DATA

LIVE LOAD:

DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	RF=1.42
OPERATING RATING FACTOR	RF=1.83
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 P.S.F.

MATERIAL PROPERTIES:

CONCRETE MASONRY, SUPERSTRUCTURE_	f'c = 4,000 P.S.I.
ALL OTHER_	f'c = 3,500 P.S.I.
HIGH-STRENGTH BAR STEEL	
REINFORCEMENT, GRADE 60	fv = 60.000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS** PER PILE AND PIER TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS** PER PILE AS AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 15 FT PILE LENGTHS AT SOUTH ABUTMENT, 20 FT PILE LENGTHS AT PIER, AND 15 FT PILE LENGTHS AT NORTH ABUTMENT. PILE POINTS ARE REQUIRED AT BOTH ABUTMENTS AND PRE-BORING IS REQUIRED AT THE PIER.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA

A.D.T. (2019)	650
A.D.T. (2039)	710
DESIGN SPEED	30 M.P.H

HYDRAULIC DATA

100 YEAR FREQUENCY	
DRAINAGE AREA	8.5 SQ. MI.
Q100 TOTAL	2,200 C.F.S.
THROUGH STRUCTURE	1,965 C.F.S.
OVERTOPPING ROADWAY	235 C.F.S.
VELOCITY - THROUGH STRUCTURE	4.7 F.P.S.
WATERWAY AREA - THROUGH STRUCTURE	421.8 SQ. FT.
HIGH WATER100 ELEVATION	1014.99
SCOUR CRITICAL CODE	5
DESIGN ROADWAY OVERFLOW FREQUENCY	
ROADWAY OVERFLOW FREQUENCY	38 YEARS
QOVERTOPPING	1,850 C.F.S.
OVERTOPPING ELEVATION	1013.78
EROSION CONTROL	
Q2	580 C.F.S.
VELOCITY2	3.3 F.P.S.
HIGH WATER2 ELEVATION	1009.38

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	BY	DATE REVISION				DATE	NO.
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)7/18	on 11/(VISCONSIN RANSPORTATIC	TATE OF V MENT OF T	S DEPARTM		ACC
	STRUCTURE B-41-306						
	CTH W OVER BRANCH BARABOO RIVER						
	COUNTY MONROE KENDALL						
		CATIONS	ESIGN SPECIFIC	BRIDGE DI	ITO LRFD B	N SPEC. AASH	DESIG
	РТВ	PLANS JZ CK'D.	DRAWN BY	РТВ	DESIGN CK'D.	NED JZ	DESIG BY
	OF 14	SHEET 1 OF 14		GENERAL PLAN			

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(608) 266-8489 PLOT SCALE

BRIDGE OFFICE CONTACT WILLIAM DREHER, PE





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1/5" & 3/1'

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-						
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MIN. DEBRIS STA. 13+35	LS				
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-41-306	LS				
210.1500	BACKFILL STRUCTURE TYPE A	TON	170		175	
502.0100	CONCRETE MASONRY BRIDGES	CY	47	40	48	217
502.3200	PROTECTIVE SURFACE TREATMENT	SY				375
502.3210	PIGMENTED SURFACE SEALER	SY	2,690		2, 7 70	82
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,470	1,760	2,550	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,630	80	1,700	40,660
513.7016	RAILING STEEL TYPE C3	LF				190
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8		8	
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF		96		
550.0500	PILE POINTS	EACH	6		6	
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	90	160	90	
606.0300	RIPRAP HEAVY	CY	65		85	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	100		100	
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	55		55	
645.0120	GEOTEXTILE TYPE HR	SY	130		140	
	NON-BID ITEMS					
	FILLER	SIZE				



FILE NAME : S:\PROJECTS\M08060 MONROE CO CTH W BRIDGE\STRUCTURE\CAD FILES\FINALS\02 CROSS SECTION AND QUANTITIES.DWG LAYOUT : LAYOUT1

NAME PLATE

8

STATE PROJECT NUMBER

5516-00-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

- ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88).
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.
- JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.
- THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A. SEE THIS SHEET FOR DETAIL.
- ANY EXCAVATION BELOW THE ABUTMENT AND ASSOCIATED ABUTMENT BEDDING MATERIALS REQUIRE THE APPROVAL OF THE ENGINEER IN THE FIELD.
- APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK, TO THE CURB FACE AND TO THE TOP OF THE RAISED SIDEWALK (FINISHED AREAS ONLY) INCLUDING SIDEWALK AREAS ADJACENT TO WING WALLS.
- APPLY PIGMENTED SURFACE SEALER TO THE INSIDE AND TOP FACES OF PARAPETS (CONCRETE MATERIAL ONLY), INCLUDING PARAPETS ON ABUTMENT WINGS.
- THE EXISTING STRUCTURE (P-41-700) IS A TWO-SPAN STEEL DECK GIRDER STRUCTURE WITH A CONCRETE DECK SUPPORTED ON FULL RETAINING CONCRETE ABUTMENTS. THE STRUCTURE IS 30.1' WIDE BY 50.0' LONG AND SHALL BE REMOVED.
- ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.
- THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-41-306" SHALL BE THE EXISTING GROUNDLINE.
- SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER IN THE FIELD.



FLANGE SHOWN, WEB SIMILAR

8

PILE SPLICE DETAIL

STEEL "HP" PILE MATERIAL SHALL BE ASTM A 572 GRADE 50.

NO.	DATE		REVISION		BY		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
	STRUCTURE B-41-306						
	ns D. PTB						
	CROSS SECTION				2 OF 14		
AND QUANTITIES			Revis	sed 56			





GEOTEXTILE -

TYPE HR



EVELED 2x6.						
EXTEND FROM 9" BELOW						0
NTAL)						Ō
& VERT. SURFACES OF NT SEALER. (1" DEEP &						
UTMENTS BETWEEN	NO.	DATE	REVISION		BY	
BUT BEFORE IT HAS TAKEN			STATE OF WISCONSIN DEPARTMENT OF TRANSPOR	N RTATION		
	STRUCTURE B-41-306					
. TO SUITABLE DRAINAGE.			DRAWN BY	PLANS JZ CK'D.	PTB	
AS DETAILED ON SHEET 2. UNDERDRAIN WRAPPED		SHEET 4 OF 14				
PLOT SCALE · 1 IN·1 ET			LAYOUT · SOUTH ABU	т		,



MONROE CO CTH W BRIDGE\STRUCTURE\CAD FILES\FINALS\04 AB

5516-00-70 SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS. SPACE REINFORCEMENT TO MISS PILING

BILL OF BARS SOUTH ABUTMENT

1,630 LB (COATED) 2,470 LB (UNCOATED)

STATE PROJECT NUMBER

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
A501	55	16-0	Х		BODY -VERT STIRRUP
A502	4	8-10	Х		BODY - VERT STIRRUP AT ENDS
A403	12	2-3			BODY - VERT 2 PER PILE
A404	6	28-0	Х		BODY - SPIRAL - 1 PER PILE
A605	11	45-3			BODY - HORIZ F.F. & TOP
A606	7	27-3			BODY - HORIZ B.F.
A807	7	12-0			BODY - HORIZ B.F.
A508	17	5-3	Х		BODY - VERT TOP
A409	3	16-6			BODY - HORIZ TOP
A510	45	2-0		Х	BODY - VERT DOWELS
A511	12	17-6	Х	Х	WING 1 - VERT STIRRUP
A512	7	13-11		Х	WING 1- HORIZ F.F.
A613	7	14-5		Х	WING 1 - HORIZ B.F.
A614	2	14-2		Х	WING 1 - HORIZ TOP
A515	16	9-0	Х	Х	WING 1 - VERT TOP
A416	5	11-7		Х	WING 1 - HORIZ F.F. & B.F.
A617	2	11-7		Х	WING 1 - HORIZ TOP
A518	12	17-8	Х	Х	WING 2 - VERT STIRRUP
A519	7	14-6		Х	WING 2 - HORIZ F.F.
A620	7	13-6		Х	WING 2 - HORIZ B.F.
A621	2	14-0		Х	WING 2 - HORIZ TOP
A522	16	9-0	Х	Х	WING 2 - VERT TOP
A423	7	11-7		Х	WING 2 - HORIZ F.F. & B.F.
A424	16	4-9	Х	Х	WING 2 - VERT SIDEWALK NOTCH
A625	2	11-7		Х	WING 2 - HORIZ TOP

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



A501, A511, A518

AR ARK	'W'	'H'	
501	2-2	5-7	
511	2-11	5-7	
518	2-11	5-8	



A508, A515, A522, A424

BAR MARK	'W'	'H'
A508	2-2	1-8
A515	0-11	4-2
A522	0-11	4-2
A424	0-9	2-1

NO. DATE





A502





BY

DT



REVISION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-41-306



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NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

STATE PROJECT NUMBER

5516-00-70

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

B.F. - BACK FACE

BILL OF BARS SOUTH ABUTMENT

1,630 L	_B ((ED)
2,690 2,470 LB	(UN	COA	

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
A501	55	16-0	х		BODY -VERT STIRRUP
A502	4	8-10	Х		BODY - VERT STIRRUP AT ENDS
A403	12	2-3			BODY - VERT 2 PER PILE
A404	6	28-0	Х		BODY - SPIRAL - 1 PER PILE
A605	11	45-3			BODY - HORIZ F.F. & TOP
A606	7	27-3			BODY - HORIZ B.F.
A807	14 7	12-0			BODY - HORIZ B.F.
A508	17	5-3	Х		BODY - VERT TOP
A409	3	16-6			BODY - HORIZ TOP
A510	45	2-0		Х	BODY - VERT DOWELS
A511	12	17-6	Х	Х	WING 1 - VERT STIRRUP
A512	7	13-11		Х	WING 1- HORIZ F.F.
A613	7	14-5		Х	WING 1 - HORIZ B.F.
A614	2	14-2		Х	WING 1 - HORIZ TOP
A515	16	9-0	Х	Х	WING 1 - VERT TOP
A416	5	11-7		Х	WING 1 - HORIZ F.F. & B.F.
A617	2	11-7		Х	WING 1 - HORIZ TOP
A518	12	17-8	Х	Х	WING 2 - VERT STIRRUP
A519	7	14-6		Х	WING 2 - HORIZ F.F.
A620	7	13-6		х	WING 2 - HORIZ B.F.
A621	2	14-0		х	WING 2 - HORIZ TOP
A522	16	9-0	Х	Х	WING 2 - VERT TOP
A423	7	11-7		Х	WING 2 - HORIZ F.F. & B.F.
A424	16	4-9	Х	Х	WING 2 - VERT SIDEWALK NOTCH
A625	2	11-7		Х	WING 2 - HORIZ TOP

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



A501, A511, A518

BAR MARK	'W'	'H'
A501	2-2	5-7
A511	2-11	5-7
A518	2-11	5-8



A508, A515, A522, A424

'W'	'Η'
2-2	1-8
0-11	4-2
0-11	4-2
0-9	2-1
	'W' 2-2 0-11 0-11 0-9



A502







LAYOU SOUTH WING



NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE SHEET 7 FOR BILL OF BARS.

SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING (NEGLECTING THE KEYED CONSTRUCTION JOINT).

DO NOT PLACE FILL HIGHER THAN 3 FEET FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

B.F. - BACK FACE



LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BE
- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZO
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOI HOLD ½" BELOW SURFACE OF CONCRETE)
- ▲ ³/₄" x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABU EDGES OF SLAB.
- ★ B510 BARS MAY BE PLACED AFTER CONCRETE IS POURED ITS INITIAL SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE 6-INCH.



EVELED 2x6.						
G EXTEND FROM 9" BELOW						Q
ONTAL)						0
& VERT. SURFACES OF INT SEALER. (1" DEEP &						
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	STRUCTURE B-41-306					
. TO SUITABLE DRAINAGE.			DRAWN BY	JZ CK'D.	РТВ	
AS DETAILED ON SHEET 2. UNDERDRAIN WRAPPED		SHEET 6 OF 14				
DLOT SCALE : 1 IN-1 ET	-			IT		•



BAR ARK	'W'	'H'	
501	2-2	5-7	
511	2-11	5-10	
519	2-11	5-7	

BAR MARK	'W'	'H'
B508	2-2	1-8
B515	0-11	4-10
B417	0-9	2-1
8523	0-11	5-3



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SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

STATE PROJECT NUMBER

5516-00-70

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

B.F. - BACK FACE

BILL OF BARS NORTH ABUTMENT

1,700 LB (COATED) 2,770 2,550 LB (UNCOATED)

			_		
BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
B501	54	16-0	Х		BODY -VERT STIRRUP
B502	4	8-10	Х		BODY - VERT STIRRUP AT ENDS
B403	12	2-3			BODY - VERT 4 PER PILE
B404	6	28-0	Х		BODY - SPIRAL - 3 PER PILE
B605	11	45-3			BODY - HORIZ F.F. & TOP
B606	7	27-3			BODY - HORIZ B.F.
B807	14 7	12-0			BODY - HORIZ B.F.
B508	30	5-3	Х		BODY - VERT TOP
B409	3	29-6			BODY - HORIZ TOP
B510	45	2-0		Х	BODY - VERT DOWELS
B511	12	18-0	Х	Х	WING 3 - VERT STIRRUP
B512	7	13-11		Х	WING 3- HORIZ F.F.
B613	7	14-5		Х	WING 3 - HORIZ B.F.
B614	2	14-2		Х	WING 3 - HORIZ TOP
B515	16	10-4	Х	Х	WING 3 - VERT TOP
B416	<mark>8 5</mark>	11-7		Х	WING 3 - HORIZ F.F. & B.F.
B417	16	4-9	Х	Х	WING 3 - VERT SIDEWALK NOTCH
B618	28	11-7		Х	WING 3 - HORIZ TOP
B519	12	17-6	Х	Х	WING 4 - VERT STIRRUP
B520	7	14-6		Х	WING 4 - HORIZ F.F.
B621	7	13-6		Х	WING 4 - HORIZ B.F.
B622	2	14-0		Х	WING 4 - HORIZ TOP
B523	16	11-2	Х	Х	WING 4 - VERT TOP
B424	5	11-7		Х	WING 4 - HORIZ F.F. & B.F.
B625	2	4-9		Х	WING 4 - HORIZ TOP

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



B501, B511, B519

BAR MARK	'W'	'Η'	
B501	2-2	5-7	
B511	2-11	5-10	
B519	2-11	5-7	



B508, B515, B417, B523

'W'	'Η'
2-2	1-8
0-11	4-10
0-9	2-1
0-11	5-3
	'W' 2-2 0-11 0-9 0-11



B502





NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION **STRUCTURE B-41-306** JZ CK'D. DT SHEET 7 OF 14 NORTH ABUTMENT DETAILS Revised 61



NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING (NEGLECTING THE KEYED CONSTRUCTION JOINT).

TOP OF PIER ELEVATIONS ARE $3\!\!\!\!/4"$ BELOW BOTTOM OF DECK TO ALLOW FOR FILLER.

E.F. - EACH FACE



					5516-00-7	0	
<u>BILL (</u> PIER	OF BA	<u>RS</u>			<u>80 LB (0</u> 1,760 LB (UN	COATED) COATED)	
BAR	NO.		RENT	COAT			
MARK	REQ'D.	LEINGTH	DEINT	COAT	LOCATION		
P501	88	9-4	v		BODY - VERT E.F.		
P502	21	4-10	X		BODY - VERT TOP BODY - HORIZ - E F		
P403	22	6-0	X		BODY - HORIZ ENDS		
♦ P405	64	2-10	X		BODY - TIES		
★ P506	40	2-0		х	BODY - VERT DOWELS		
NOTES:	THE FIRST DIMENS	DIGIT OF A SIONS IN BI	BAR MA	ARK SIG DETAIL	NIFIES THE BAR SIZE. S ARE OUT TO OUT OF BAR.		
-0- -0-	<u>P502</u>	- 	† - -	+ <u>P40</u>	<u>P405</u>		
LEG	FND						
 ● KE ▲ ¾ ★ P5 ITS ■ PII ◇ PL SH 	YED CONS "x4" PREFC 06 BARS M 5 INITIAL SE LE SPACING ACE P405 E IAFT TO TC	TRUCTION DRMED FILL IAY BE PLA ET. EMBED G MEASURE BARS ADJAG P OF PILIN	JOINT F(LER, EXTI CED AFT BAR 1'-(ED AT BA CENT TO G.	DRMED END FU ER CON ". SE OF S	BY SURFACED & BEVELED 2x6. ILL LENGTH OF PIER AS SHOWN. NCRETE IS POURED BUT BEFORE I SHAFT. 5 @ 12" VERTICAL SPACING FROM	T HAS TAKEN // BASE OF	
EDGE SIDE\	OF WALK OF	EST EDGE – DECK				EAST EDGE OF DECK	
EN TO A			WEST		EAST END N AT END OF PIER	<u></u>	8
PILE LENGTHS IER.			N	IO. D	ATE REVISION STATE OF WISCONSII DEPARTMENT OF TRANSPOR	BY N RTATION	
いして	}		⊢			-	
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						SHEET 8 OF 14	
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5516-00-70

LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ¾" x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.
- CONSTRUCTION JOINT STRIKE OFF AND LEAVE ROUGH. FINISH ALL AREAS THAT WILL NOT BE COVERED WITH SIDEWALK OR PARAPET AT COMPLETION. FOR SLAB PLACEMENT, MATCH BRIDGE CROSS SLOPE.
- \bigtriangledown R502 PARAPET BARS AT EAST EDGE AND S416 SIDEWALK BARS TO BE TIED TO DECK STEEL BEFORE DECK IS POURED. SEE SHEET 9 OF 14 FOR BAR LAYOUT.
- * DIMENSION IS NORMAL TO THE C/L OF SUBSTRUCTURE UNITS.
- ** SEE SHEETS 4 OR 6 FOR PLACEMENT OF A510 OR B510 BARS.

NOTES

PARAPETS AND SIDEWALKS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

– SIDEWALK						
- 5511						8
S510 IN PAIRS @ 9" CTR'S						
	NO.	DATE	REVISION		BY	
→ ³ / ₄ " BEVEL	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
		S	STRUCTURE B-4	41-306		
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UDINAL SECTION	s	UPEF	RSTRUCTURE	SHEET 10 C)F 14 -	
IDEWALK		DETA	ALS (1 OF 2)	Revised	64	

LEGEND

- \bigtriangledown S416 Sidewalk bars to be tied to deck steel before deck is poured.
- △ R502 PARAPET BARS TO BE TIED TO SIDEWALK STEEL BEFORE SIDEWALK IS POURED. SEE THIS SHEET 9 OF 14 FOR BAR LAYOUT.
- CONSTRUCTION JOINT STRIKE OFF AND LEAVE ROUGH.
 FINISH ALL AREAS THAT WILL NOT BE COVERED WITH
 SIDEWALK OR PARAPET AT COMPLETION. FOR SLAB
 PLACEMENT, MATCH BRIDGE CROSS SLOPE.

NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

SUPPORT ALTERNATE TOP TRANSVERSE BARS IN SLAB BY INDIVIDUAL BAR CHAIRS AT APPROX. 3'-0" CENTERS. SUPPORT BOTTOM LONGITUDINAL BARS BY CONTINUOUS BAR CHAIRS AT APPROX. 4'-0" CENTERS.

PLACE TRANSVERSE BARS PARALLEL TO THE CENTERLINE OF SUBSTRUCTURE UNITS.

THE SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).



CAMBER DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR THEORETICAL DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB OR CENTER LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

-SLAB THICKNESS

+CAMBER +FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (COMPUTED BY CONTRACTOR) =TOP OF SLAB FALSEWORK ELEVATION.



SECTION THROUGH RAISED SIDEWALK



NOTE: WHEN PARAPETS ARE POURED CONTINUOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFLECTION JOINT BY A PIECE OF ¹/₈" PLASTIC OR ZINC PLATE CUT AS SHOWN. IF CONSTRUCTION JOINT IN THE PARAPET IS USED AT THE DEFLECTION JOINT, ONE SIDE OF JOINT SHALL BE COATED WITH AN APPROVED LIQUID BOND BREAKER AND PLATE SEPARATOR MAY BE OMITTED.

DEFLECTION JOINT DETAIL

5516-00-70

BILL OF BARS SUPERSTRUCTURE

37,500 LB (COATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
S501	86	6-10	Х	Х	END OF DECK
S402	84	21-6		X	SLAB - TOP - LONGITUDINAL
S1003	84	23-0		X	SLAB - TOP - LONGITUDINAL
S404	2	32-6		X	SLAB - TOP - LONGITUDINAL @ EDGES
S505	73	43-3		X	SLAB - TOP - TRANSVERSE
S906	84	27-2		X	SLAB - BOTTOM - LONGITUDINAL
S907	84	35-3		X	SLAB - BOTTOM - LONGITUDINAL
S408	1	22-8		Х	SLAB - BOTTOM - LONGITUDINAL @ W. EDGE
S509	79	43-3		Х	SLAB - BOTTOM - TRANSVERSE
S510	12	5-3	Х	Х	END OF DECK - UNDER SIDEWALK - STIRRUPS
S511	16	4-9		Х	END OF DECK - UNDER SIDEWALK - TRANS.
S512	144	7-5	Х	Х	SIDEWALK - TOP - TRANSVERSE
S513	1	6-1		Х	SIDEWALK - TOP - TRANSVERSE @ N. END
S414	26	35-11		Х	SIDEWALK - LONGITUDINAL
S415	48	3-0		X	SIDEWALK - TRANSVERSE @ UNDERSIDE
S416	288	3-4	Х	Х	SIDEWALK - STIRRUPS

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



L	6'-10"
$\sum_{i=1}^{n}$	
- 180° STD. HOOK	<u>5512</u>



BAR MARK	w	Н
S510	1-9	2-0
S416	1-0	1-6

 DATE
 REVISION
 BY

 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 STRUCTURE B-41-306

 DRAWN BY
 JZ

 JZ PLANS CKYD

 SUPERSTRUCTURE DETAILS (2 OF 2)
 SHEET 11 OF 14



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STATE PROJECT NUMBER

5516-00-70

BILL OF BARS PARAPETS 3,160 LB (COATED) BAR NO. LENGTH BENT COAT LOCATION REQ'D. MARK R501 50 38 8-4 X X PARAPET - VERT. - EAST WINGS R502 50 38 10-0 X X PARAPET - VERT. - WEST WINGS R503 2 3174 6-9 X PARAPET - VERT. - DECK х X PARAPET - HORIZ. - WINGS R404 24 11-7 R405 12 37-4 X PARAPET - HORIZ. - EAST PARAPET PARAPET - HORIZ. - WEST PARAPET - SOUTH R406 36-1 х 6 X PARAPET - HORIZ. - WEST PARAPET - NORTH R407 6 35-9 NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR. ain BAR L MARK R501 3-10 R502 4-8 R503 R501, R502 12'-0" 9 SPA. @ 5" = 3'-9" 6 SPA. @ 8" = 4'-0" 9 SPA. @ 5" = 3'-9" R501 OR R502 R501 OR R502 R501 OR R502 ▲ ½" FILLER R404 R405, R406 -∠ R503 (TYP.) OR R407 **ELEVATION AT WING PARAPET** ALL WINGS SIMILAR LEGEND ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE)

- CONSTRUCTION JOINT STRIKE OFF AND LEAVE ROUGH. FINISH ALL AREAS THAT WILL NOT BE COVERED WITH SIDEWALK OR PARAPET AT COMPLETION. FOR SLAB PLACEMENT, MATCH BRIDGE CROSS SLOPE.
- ♦ OPTIONAL CONSTRUCTION JOINT. LEAVE ROUGH. POUR CONCRETE ABOVE THIS JOINT AFTER DECK IS IN PLACE. IF JOINT IS USED, UTILIZE RUBBERIZED MEMBRANE WATERPROOFING (COST IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES").
- $\bigtriangledown\sim\,$ R503 bars at east edge to be tied to deck steel before deck is poured. Adjust location of bars to allow placement of anchor assembly for railing.
- △ R503 BARS AT WEST EDGE TO BE TIED TO SIDEWALK STEEL BEFORE SIDEWALK IS POURED. ADJUST LOCATION OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING.
- \diamondsuit R501 and R502 bars to be tied to wing steel before wing is poured. Adjust location of bars to allow placement of anchor assembly for railing.

NO.	. DATE REVISION BY									
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-41-306										
	DRAWN PLANS BY JZ CK'D. PTB									
			SHEET 12 OF 14							
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LEGEND

- (1A) PLATE 5/8" x 6" x 8" WITH 3/4" x 11/2" SLOTTED HOLES.
- (IC) PLATE 5/8" x 8" x 1'-1" WITH 3/4" x 11/2" SLOTTED HOLES.
- (2A) $\frac{1}{4}$ " x 5" x 7" ANCHOR PLATE WITH $\frac{11}{16}$ " DIA. HOLES FOR THR'D. RODS NO. 3.
- (2C) $\frac{1}{4}$ " x $2\frac{1}{2}$ " x $7\frac{1}{4}$ " ANCHOR PLATE WITH $\frac{11}{16}$ " DIA. HOLES FOR THR'D. RODS NO. 3.
- ③ %" 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 ½-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.
- (4A) STRUCTURAL TUBING 3" x $1\frac{1}{2}$ " x $\frac{3}{16}$ ". 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.
- (6A) BAR 1"x1" PICKETS. WELD TO NO. 5. (SPACE AT 6" MAX. C/L TO C/L SPACING). PLACE VERTICAL.
- (7) BAR 1"x1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM $\frac{3}{16}$ " PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM $\frac{3}{16}$ " plates. (1'-4" @ field erection joints.)

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3", 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 IN 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) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHOULD BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE FINISH COLOR SHALL BE FEDERAL COLOR NO. 27038 (BLACK) OR SIMILAR COLOR APPROVED BY THE ENGINEER IN THE FIELD.

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

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

AT COMPLETION OF STEEL RAILING INSTALLATION, PAINT THE TOPS OF ANCHOR BOLTS AND NUTS WITH THE TIE COAT. TOUCH-UP PAINT WITH THE TOP COAT ALL DAMAGED AREAS AND THE ANCHOR BOLTS TO THE SATISFACTION OF THE ENGINEER IN THE FIELD AT NO EXTRA COST.

NO.	DATE	REVISION B				
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
STRUCTURE B-41-306						
			DRAWN BY	JZ CK'D.	РТВ	
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	TYPE	C3 DETAI				

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AYOUT : RAIL DETAILS

EARTHWORK-MAINLINE

	AREA (SF)		INCREMENTAL VOL (CY)		CUMMULATIVE VOLUME (CY)				
STATION	сит	FILL	CUT NOTE 1	FILL NOTE 2	FILL (25%)	CUT 1.00 NOTE 1	FILL	FILL (25%) NOTE 3	MASS ORDINATE NOTE 4
12+00	72	0	0	0	0	0	0	0	Û
12+50	75	0	137	0	0	137	0	0	137
12+96	85	0	136	0	0	273	0	0	273
12+96	0	0	0	0	0	273	0	0	273
13+69	0	0	0	0	0	273	0	0	273
13+69	57	0	0	0	0	273	0	0	273
14+00	57	0	67	0	0	340	0	0	340
14+50	67	0	115	0	0	455	0	0	455
COLUMN SUBTOTALS ≂			= 455	0	٥				

EARTHWORK- 'A'-LINE (OLD GLENDALE ROAD)

AREA (SF)		INCREMENTAL VOL (CY)		CUMMULATIVE VOLUME (CY)				
					CUT		FILL	MASS
		CUT	FILL	FILL	1.00		(25%)	ORDINATE
сит	FILL	NOTE 1	NOTE 2	(25%)	NOTE 1	FILL	NOTE 3	NOTE 4
115	0	0	0	0	0	0	0	0
108	30	149	20	26	149	20	26	123
312	10	389	37	47	538	57	73	465
70	0	354	10	12	892	67	85	807
78	0	83	Û	Û	975	67	85	890
IMN SUE	BTOTALS	= 975	67	85				
M	IAINLINE	= 455	Û	0	455	0	0	455
	A'-LINE :	= 975	67	85	1430	67	85	1345
DRIVE	WAYS =	65	8	10	1495	75	95	1400
WER O	UTLET =	60	0	Û	1555	75	95	1460
	AREA CUT 115 108 312 70 78 MN SUE MN SUE WER O	AREA (SF) CUT FILL 115 0 108 30 312 10 70 0 78 0 MN SUBTOTALS MAINLINE = A'-LINE = DRIVEWAYS = WER OUTLET =	AREA (SF) INCREMEN CUT CUT 115 0 108 30 312 10 354 354 70 0 354 354 78 0 MAINLINE = 975 MAINLINE = 975 DRIVEWAYS = 65 WER OUTLET = 60	AREA (SF) INCREMENTAL VOL (CY) CUT FILL CUT FILL NOTE 1 NOTE 2 115 0 0 108 30 149 312 10 389 37 70 0 354 10 78 0 83 0 MAINLINE = 975 67 DRIVEWAYS = 65 8 WER OUTLET = 60 0	AREA (SF) INCREMENTAL VOL (CY) CUT FILL FILL FILL CUT FILL NOTE 1 NOTE 2 (25%) 115 0 0 0 0 108 30 149 20 26 312 10 389 37 47 70 0 354 10 12 78 0 83 0 0 MN SUBTOTALS = 975 67 85 MAINLINE = 455 0 0 A'-LINE = 975 67 85 DRIVEWAYS = 65 8 10 WER OUTLET = 60 0 0	AREA (SF) INCREMENTAL VOL (CY) CUMMULATIV CUT FILL CUT CUT CUT CUT CUT CUT 1.00 CUT CUT 1.00 CUT CUT 1.00 CUT NOTE 1 1.00 CUT 115 0	AREA (SF) INCREMENTAL VOL (CY) CUMMULATIVE VOLU CUT FILL CUT CUT CUT FILL NOTE 1 FILL 1.00 115 0 0 0 0 0 108 30 149 20 26 149 20 312 10 359 37 47 538 57 70 0 354 10 12 892 67 78 0 83 0 0 975 67 MN SUBTOTALS = 975 67 85 1430 67 DRIVEWAYS = 65 8 10 1495 75 WER OUTLET = 60 0 0 1555 75	AREA (SF) INCREMENTAL VOL (CY) CUMMULATIVE VOLUME (CY) CUT FILL CUT FILL CUT FILL NOTE 1 FILL 1.00 (25%) CUT FILL NOTE 1 NOTE 2 (25%) NOTE 1 FILL NOTE 3 115 0 0 0 0 0 0 0 108 30 149 20 26 149 20 26 312 10 359 37 47 538 57 73 70 0 354 10 12 892 67 85 78 0 83 0 0 975 67 85 MAINLINE = 975 67 85 1430 67 85 DRIVEWAYS = 65 8 10 1495 75 95 WER OUTLET = 60 0 0 1655 75 95

NOTES:	
1 - CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
3 - FILL (25%)	EXPANDED FILL FACTOR 1.25: FILL (25%) = (UNEXPANDED FILL)*1.25
4 - MASS ORDINATE	THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION.
	PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY.
	MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY.

PROJECT NO: 5516-00-70 HWY: CTH W

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COUNTY: MONROE

IROE EARTHWORK

























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