FEDERAL PROJECT **SUP DEC 2106** STATE PROJECT CONTRACT PROJECT STATE OF WISCONSIN ORDER OF SHEETS WISC 2016497 1550-04-61 1 Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Estimate of Quantitles PLAN OF PROPOSED IMPROVEMENT Plan and Profile (Includes Erosion Control) Standard Detail Drawings CLEAR LAKE - CUMBERLAND Sign Plates Section No. 7 S 50-04-6 TRIBUTARY LAKE MAGNOR C-48-0019 Section No. 9 Cross Sections USH 63 TOTAL SHEETS = 36 **POLK COUNTY** PROJECT LOCATION STATE PROJECT NUMBER 1550-04-61 **END PROJECT** 1550-04-61 STA. 240+10 R-15-W R-14-W R-16-W **STRUCTURE** C-48-0019 Gorre ORIGINAL PLANS PREPARED BY Rr. Beav Clayt ট্রি Ömers JESSE D.
JEFFERSON
E-41823
RHINELANDER
WI

09/14/16 DESIGN DESIGNATION T-33-N A.A.D.T. 2037 = 7000 D.H.V. = 532 D.D. = 63/37COUNTY: = 9.6% DESIGN SPEED = 50 MPH **BEGIN PROJECT** = 1,600.000ESALS 1550-04-61 STA. 238+85 X=576388.72 CONVENTIONAL SYMBOLS Y=240098.33 JJ **PROFILE** GRADE LINE CORPORATE LIMITS ORIGINAL GROUND 09/14/16 PROPERTY LINE MARSH OR ROCK PROFILE Frenc LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH STATE OF WISCONSIN T-32-N EXISTING RIGHT OF WAY GRADE ELEVATION DEPARTMENT OF TRANSPORTATION PROPOSED OR NEW R/W LINE ea CULVERT (Profile View) SLOPE INTERCEPT _ake PREPARED BY MSA PROFESSIONAL SERVICES, INC. UTILITIES Surveyor REFERENCE LINE ELECTRIC MSA PROFESSIONAL SERVICES, INC Designer EXISTING CULVERT BRENDAN DIRKES FIBER OPTIC PROPOSED CULVERT GAS (Box or Pipe) ANDREW STENSLAND SANITARY SEWER Regional Supervisor LAYOU COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY MARSH AREA COORDINATES, POLK COUNTY, NADB3 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.024 MI POWER POLE ₫ DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. Ø WOODED OR SHRUB AREA TELEPHONE POLE PLOT BY : COURTNEY ROOYAKKERSLOT NAME : FILE NAME : P: \905\93\00093262\CADD\SHEETSOTHER\TITLE USH 63.DWG PLOT DATE: 9/14/2016 12:41 PM WISDOT/CADDS SHEET 10

STANDARD ABBREVIATIONS

AC	ACRE	F/L	FLOW LINE	SALV	SALVAGED
AGG	AGGREGATE	FT	FOOT	SAN	SANITARY SEWER
<	ANGLE	GN	GRID NORTH	SECT	SECTION
ASPH	ASPHALTIC	HR	HANDICAP RAMP	SHLDR	SHOULDER
AC	ASPHALT CEMENT	HT	HEIGHT	SW	SIDEWALK
ADT	AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT	S	SOUTH
B & B	BALLED AND BURLAPPED	HYD	HYDRANT	SB	SOUTHBOUND
BM BM	BENCH MARK	IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INL	INLET	SQ	SQUARE
© OR C∕L	CENTER LINE	ID	INSIDE DIAMETER	SF OR SQ FT	SQUARE FEET
C-C	CENTER LINE CENTER TO CENTER	I	INTERSECTION ANGLE	SY	SQUARE YARD
CONC	CONCRETE	I.E.	INVERT ELEVATION	SSPRC	STORM SEWER
CONC	COUNTY	IP	IRON PIPE OR PIN	00, 110	PIPE REINFORCED CONCRETE
CTH	COUNTY TRUNK HIGHWAY	JCT	JUNCTION	STD	STANDARD
CY	CUBIC YARD	L	LENGTH OF CURVE	SDD	STANDARD DETAIL DRAWINGS
CULV	CULVERT	LF	LINEAR FOOT	STH	STATE TRUNK HIGHWAYS
CP	CULVERT PIPE	LC	LONG CHORD OF CURVE	STA	STATION
CPRC	CULVERT PIPE	LCB	LONG CHORD BEARING	SS	STORM SEWER
01 110	REINFORCED CONCRETE	LS	LUMP SUM	T	TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
D DHV	DESIGN HOUR VOLUME	Y	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DHV DIA OR Ø	DIAMETER	0.E.	OUTLET ELEVATION	T	TON
DIA OR V	DISTRICT	OL.	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
E	EAST	OH	OVERHEAD LINES	TRANS	TRANSITION
X	EAST GRID COORDINATE	PAVT	PAVEMENT	T	TRUCKS (percent of)
EB	EASTBOUND	PLE	PERMANENT LIMITED EASEMENT	TYP	TYPICAL
ELEC	ELECTRIC	PC	POINT OF CURVATURE	UNCL	UNCLASSIFIED
EL OR ELEV	ELEVATION	PI	POINT OF CORVATORE POINT OF INTERSECTION	USH	UNITED STATES HIGHWAY
EMB	EMBANKMENT	PT	POINT OF INTERSECTION POINT OF TANGENCY	VAR	VARIABLE
EW	ENDWALL	PCC	PORTLAND CEMENT CONCRETE	VERT	VERTICAL
ESALS	EQUIVALENT SINGLE	LB	POUND	VC	VERTICAL VERTICAL CURVE
LUALU	AXLE LOADS	PE	PRIVATE ENTRANCE	VOL	
EXC	EXCAVATION	R OR RAD	RADIUS	WM	VOLUME
EBS	EXCAVATION BELOW	RR	RAILROAD	WV	WATER MAIN
200	SUBGRADE	R	RANGE	W	WATER VALVE
EXIST	EXISTING	R OR R/L	REFERENCE LINE	WB	WEST
EXP	EXPANSION	REQD	REQUIRED	YD	WESTBOUND
F-F	FACE TO FACE	RT	RIGHT	10	YARD
FERT	FERTILIZER	R / W	RIGHT-OF-WAY		
FE	FIELD ENTRANCE	RD	ROAD		
	. 1000 0	· ·=	::=::=		

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 1.5 LBS. PER 1000 SQUARE FEET.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE NOT SHOWN.

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO "RICHARDSON 255", A NGS SURVEY MONUMENT, ELEV. 1194.23, NAVD 88 DATUM.

THE 6.75" ASPHALTIC SURFACE AND A 2 3/4" LOWER LAYER.

SHALL CONSIST OF A 1 3/4" UPPER LAYER, 2 1/4" MIDDLE LAYER

SILT FENCE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO BRIDGE REMOVAL.

WHEN THE QUANTITY OF THE ITEM OF BASE LAYER IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTURAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN.: ALEX PASSOW 1835 N. STEVENS STREET RHINELANDER, WI 54501-2163 PHONE: 715-362-3244 apassow@msa-ps.com

UTILITIES

GAS LINE:
WE ENERGIES
ATTN.: LEWIS KNAPP
104 W SOUTH STREET
RICE LAKE, WI 54868
PHONE: 715-234-9605
lewis.knapp@we-energies.com

ELECTRIC - TRANSMISSION:
XCEL ENERGY
ATTN.: PAM TAYLOR
1414 W HAMILTON AVE
P.O. BOX 8
EAU CLAIRE, WI 54702-0008
PHONE: 715-737-1306
pamela.i.taylor@xcelenergy.com

COMMUNICATION LINE: ATTN.: GREG CARDINAL NORTHWEST COMMUNICATIONS 116 HARRIMAN AVE N AMERY, WI 54001 PHONE: 715-268-7101

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN.: AMY CRONK 810 WEST MAPLE STREET SPOONER, WI 54801 PHONE: 715-635-4229 amy.cronk@wisconsin.gov

WATER AND SEWER:
VILLAGE OF CLAYTON PUBLIC WORKS
ATTN.: SHELDON DONATH
PUBLIC WORKERS DIRECTOR
100 MAIN ST
P.O. BOX 274
CLAYTON, WI 54004
PHONE: 715-948-2310

ELECTRIC - DISTRIBUTION:
XCEL ENERGY
ATTN.: JAKE MILLER
1414 W HAMILTON AVE
P.O. BOX 8
EAU CLAIRE, WI 54702-0008
PHONE: 715-268-3227
jake.miller@xcelenergy.com

POLK COUNTY HIGHWAY DEPARTMENT

COUNTY HIGHWAY COMMISSIONER ATTN.: EMIL (MOE) NORBY 518 MAIN ST BALSAM LAKE, WI 54810 PHONE: 715-485-8723 emil.norby@co.polk.wi.us

* - NOT A MEMBER OF DIGGERS HOTLINF.



	RUNOFF COEFFICIENT TABLE								
		HYDROLOGIC SOIL TABLE							
	А	A B C D							
	SLOPE RANGE %	SLOPE RANGE %	SLOPE RANGE %	SLOPE RANGE %					
LAND USE:	6 & OVER	6 & OVER	6 & OVER	6 & OVER					
SIDE SLOPE-	.25	.27	. 28	. 30					
TURF	.32	.34	.36	. 38					
PAVEMENT:									
ASPHALT		.7095							
CONCRETE	.8095								
GRAVEL ROADS, SHOULDERS	.4060								

THE RUNOFF COEFFICIENTS OF SURFACE DRAINAGE AT THE PROJECT SITES WILL NOT BE CHANGED FROM BEFORE TO AFTER CONSTRUCTION. THE TOTAL AREA OF THE PROJECT IS 0.40 ACRES. THE TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES IS 0.30 ACRES.

PROJECT NO:1550-04-61

HWY: USH 63

COUNTY: POLK

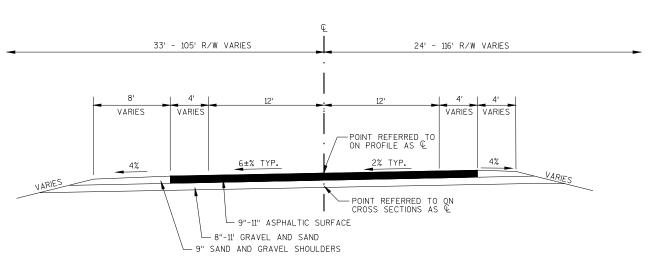
GENERAL NOTES, UTILITIES & STANDARD ABBREVIATIONS

PLOT BY: COURTNEY ROOYAKKERS PLOT NAME:

SHEET

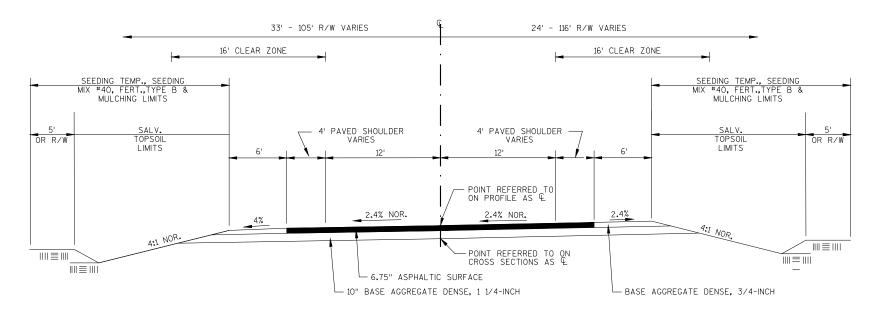
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2



TYPICAL EXISTING SECTION

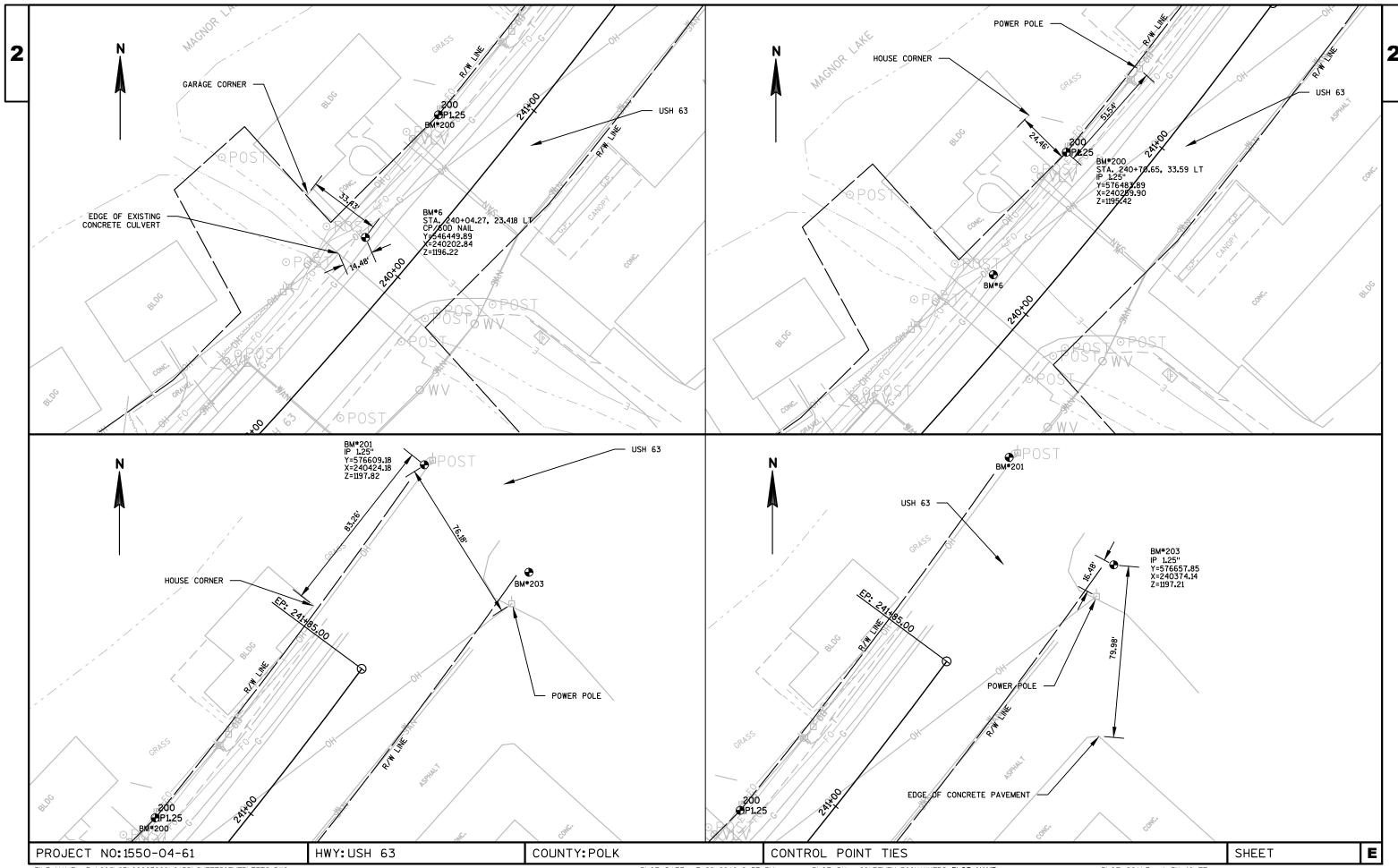
STA. 238+85 TO STA. 240+10



TYPICAL FINISHED SECTION

STA. 238+85 TO STA. 240+10

PROJECT NO:1550-04-61 HWY:USH 63 COUNTY:POLK TYPICAL SECTIONS SHEET **E**



2

6.75" ASPHALTIC

10" BASE AGGREGATE DENSE, 1 1/4-INCH

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NOTE: MATERIAL REMOVED IN THE TRANSITION CUT AND PIPE TRENCH EXCAVATIONS TO BE REUSED AS BACKFILL UNLESS DETERMINED TO BE UNSTABLE BY THE ENGINEER IN WHICH CASE BACKFILL GRANULAR GRADE 1 WILL BE USED.

PAYMENT FOR PIPE TRENCH EXCAVATION, GEOTEXTILE TYPE C, NO. 2 WASHED STONE, BACKFILL GRANULAR GRADE 1, AND TRANSITION CUT IS INCLUDED IN ITEM SPV.0090.01.

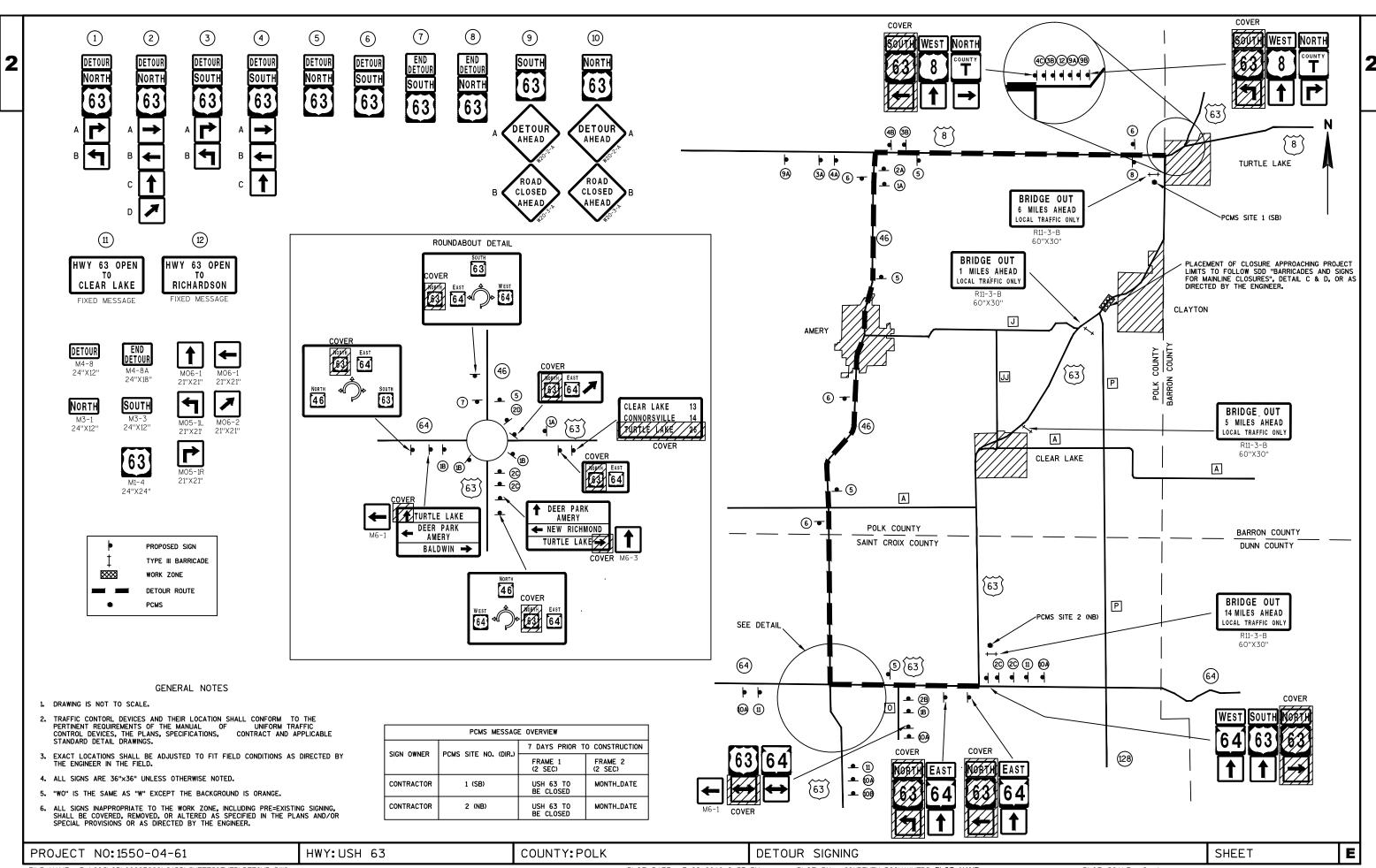
TRANSITION CUT WILL BE 36' WIDE, 2' OUTSIDE EDGE OF THE PROPOSED ASPHALT ON EACH SIDE OF THE CENTERLINE.

* DEPTH WILL VARY DUE TO PIPE TRENCH BEING LOCATED ON A SUPERELEVATED SECTION.

CULVERT PIPE TRANSITION

PROJECT NO:1550-04-61 HWY:USH 63 COUNTY:POLK CONSTRUCTION DETAIL SHEET **E**

10' (TYP) <u>PLAN</u> RIPRAP MEDIUM OVER -GEOTEXTILE TYPE HR (TYP) GEOTEXTILE FABRIC TYPE HR -**ELEVATION** RIPRAP LAYOUT HWY:USH 63 COUNTY: POLK PROJECT NO:1550-04-61 PLAN: CONSTRUCTION DETAIL SHEET E FILE NAME : P:\90S\93\00093262\CADD\SHEETSOTHER\CONSTRUCTION DETAIL.DWG LAYOUT NAME - **** PLOT DATE: 9/20/2016 9:28 AM PLOT BY: COURTNEY ROOYAKKERS PLOT NAME: PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42



Listillate of Quantities	i age	'
1550-04-61		

Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	1.000	1.000
0020	201.0205	Grubbing	STA	1.000	1.000
0030	203.0200	Removing Old Structure (station) 01. Station 239+85	LS	1.000	1.000
0040	205.0100	Excavation Common	CY	240.000	240.000
0050	206.5000	Cofferdams (structure) 01. C-48-0019	LS	1.000	1.000
0060	208.0100	Borrow	CY	182.000	182.000
0070	209.0200.S		CY	75.000	75.000
0080	209.1500	Backfill Granular Grade 1	TON	60.000	60.000
0090	210.2100	Backfill Structure Type B	CY	120.000	120.000
0100	213.0100	Finishing Roadway (project) 01. 1550-04-61	EACH	1.000	1.000
0110	305.0110	Base Aggregate Dense 3/4-Inch	TON	55.000	55.000
0120	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	400.000	400.000
0130	455.0605	Tack Coat	GAL	46.000	46.000
0140	465.0105	Asphaltic Surface	TON	165.000	165.000
0150	504.0900	Concrete Masonry Endwalls	CY	31.000	31.000
0160	606.0200	Riprap Medium	CY	34.000	34.000
0170	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
	0.0.0.00	1550-04-61	_,,,,,,,		
0180	619.1000	Mobilization	EACH	1.000	1.000
0190	624.0100	Water	MGAL	22.000	22.000
0200	625.0500	Salvaged Topsoil	SY	473.000	473.000
0210	627.0200	Mulching	SY	653.000	653.000
0220	628.1504	Silt Fence	LF	240.000	240.000
0230	628.1520	Silt Fence Maintenance	LF	240.000	240.000
0240	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0250	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0260	628.7570	Rock Bags	EACH	20.000	20.000
0270	629.0210	Fertilizer Type B	CWT	0.400	0.400
0280	630.0140	Seeding Mixture No. 40	LB	14.000	14.000
0290	630.0200	Seeding Temporary	LB	11.000	11.000
0300	633.5100	Markers Row	EACH	2.000	2.000
0310	633.5200	Markers Culvert End	EACH	4.000	4.000
0320	642.5001	Field Office Type B	EACH	1.000	1.000
		, ,			
		• •			
0330 0340 0350 0360 0370 0380 0390	643.0100 643.0300 643.0420 643.0705 643.0715 643.0900 643.0920	Traffic Control (project) 01. 1550-04-61 Traffic Control Drums Traffic Control Barricades Type III Traffic Control Warning Lights Type A Traffic Control Warning Lights Type C Traffic Control Signs Traffic Control Covering Signs Type II	EACH DAY DAY DAY DAY DAY EACH	1.000 240.000 660.000 1,080.000 45.000 765.000 14.000	1.000 240.000 660.000 1,080.000 45.000 765.000 14.000

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					1550-04-61
Line	Item	Item Description	Unit	Total	Qty
0400	643.1000	Traffic Control Signs Fixed Message	SF	66.000	66.000
0410	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0420	643.2000	Traffic Control Detour (project) 01. 1550-04-61	EACH	1.000	1.000
0430	643.3000	Traffic Control Detour Signs	DAY	3,660.000	3,660.000
0440	645.0120	Geotextile Type HR	SY	100.000	100.000
0450	646.0106	Pavement Marking Epoxy 4-Inch	LF	410.000	410.000
0460	650.4500	Construction Staking Subgrade	LF	125.000	125.000
0470	650.5000	Construction Staking Base	LF	125.000	125.000
0480	650.6500	Construction Staking Structure Layout (structure) 01. C-48-0019	LS	1.000	1.000
0490	650.9910	Construction Staking Supplemental Control (project) 01. 1550-04-61	LS	1.000	1.000
0500	650.9920	Construction Staking Slope Stakes	LF	125.000	125.000
0510	690.0150	Sawing Asphalt	LF	74.000	74.000
0520	999.1500.S	Crack and Damage Survey	LS	1.000	1.000
0530	SPV.0090	Special 01. Culvert Pipe Reinforced Concrete Hor izontal Elliptical Class HE-V87x136-Inch	LF	68.000	68.000
0540	SPV.0105	Special 01. Research and Locate Existing Property Monuments	LS	1.000	1.000
0550	SPV.0105	Special 02. Verify and Replace Existing Property Monuments	LS	1.000	1.000

		201.0105	201.0205
		CLEARING	GRUBBING
STATION	LOCATION	STA	STA
+00 - 240+00	RT & LT	1	1

CATEGORY 239+ 0010

REMOVING OLD STRUCTURE

203.0200 REMOVING OLD STRUCTURE

STATION 239+85 CATEGORY STATION LS REMARKS 0010 239+85 10' x 6' CONC. BOX CULVERT TOTAL

EXCAVATION

		205.0100 EXCAVATION COMMON	FILL (1)	EXPANDED FILL (1)(2)	208.0100 BORROW (2)
CATEGORY	STATION	CY	CY	CY	CY
0010	238+85 - 240+10	240	140	182	182
	TOTAL	240	140	182	182

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.

(2) - FILL EXPANSION = 30%

COFFERDAMS

206.5000 **COFFERDAMS** C-48-0019

CATEGORY	STATION	LS
0010	239+85	1
	TOTAL	- 1

BACKFILL ITEMS

		209.1500	209.0200.S	210.2100
		BACKFILL	BACKFILL	BACKFILL
		GRANULAR	CONTROLLED	STRUCTURE
		GRADE 1	LOW STRENGTH	TYPE B
CATEGORY	STATION	TON	CY	CY
0010	239+85		75	120
0010	TRANSITION CUT	60		
	TOTAL	60	75	120

NOTE: BACKFILL GRANULAR GRADE 1 WAS CALCULATED USING 2.0 TONS/CY. USE BACKFILL STRUCTURE TYPE B ADJACENT TO CONCRETE MASONRY ENDWALLS. BASE AGGREGATE ITEMS

305.0110 305.0120 BASE BASE 624.0100 AGGREGATE AGGREGATE WATER DENSE DENSE 3/4-INCH 1 1/4-INCH CATEGORY STATION TON TON MGAL 0010 238+85 - 240+10 TOTAL

NOTE: BASE AGGREGATE DENSE (3/4-INCH & 1 1/4-INCH) WERE CALCULATED USING 2.0 TONS/CY. **ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALT PAVEMENT ITEMS

455.0605 465.0105 TACK ASPHALTIC COAT SURFACE

CATEGORY	STATION	THICKNESS	GAL	TON
0010	238+85 - 240+10	6.75	46	165
	TOTAL		46	165

NOTE: TACK COAT CALCULATED AT 0.05 GALLONS PER SQUARE YARD

CULVERT PIPE

			504.0900 CONCRETE MASONRY ENDWALLS	SPV.0090.01 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-V 87x136-INCH	633.5200 MARKERS CULVERT END
CATEGORY	STATION	LOCATION	CY	LF	EA
0010	239+85	LT	15	32	2
	239+85	RT	16	36	2
	TOTA	AL.	31	68	4

RIPRAP ITEMS

			606.0200 RIPRAP	645.0120 GEOTEXTILE		MOBILIZATION	
			MEDIUM	TYPE HR			619.1000
CATEGORY	STATION	LOCATION	CY	SY			MOBILIZATION
0010	239+85	LT	16	44	CATEGORY	PROJECT	EACH
	239+85	RT	18	56	 0010	1550-04-61	1
	TO	TAL	34	100	 TO	ΓAL	1

RESTORATION ITEMS

			** 624.0100 WATER	625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	629.0210 FERTILIZER TYPE B	630.0140 SEEDING MIXTURE #40	630.0200 SEEDING TEMPORARY
CATEGORY	STATION	LOCATION	MGAL	SY	SY	CWT	LB	LB
0010	238+85 - 240+10	LT	5.2	157	231	0.1	5	4
	238+85 - 240+10	RT	7.0	237	313	0.2	6	5
	UNDISTRIBUTED		2.8	79	109	0.1	3	2
	TOTAL		15	473	653	0.4	14	11

**ADDITIONAL QUANTITIES LISTED ELSEWHERE

PROJECT NO:1550-04-61 HWY: USH 63 COUNTY: POLK MISCELLANEOUS QUANTITIES SHEET

	EH		628.1504 SILT FENCE	628.1520 SILT FENCE	628.7570 ROCK BAGS			(TRAFFIC CONTROL	CONROL	TRAFFIC CONTROL	643.0420 TRAFFIC CONTROL	TRAFFIC CONTRO	L CONTI	FIC TRAFF ROL CONTE	FIC TRAF	ITROL
CATEGORY 0010	STATION 238+85 - 240+10 238+85 - 240+10	LOCATION LT RT	LF 100 90	MAINTENANCE LF 100 90	EACH	CATEGORY	PROJECT	DAYS	DRUMS	DRUMS DAYS	BARRICADES TYPE III EACH	BARRICADI TYPE III DAYS	ES WARNIN LIGHTS TYPE A EACH	LIGH	TS LIGHT E A TYPE	TS LIGI C TYP	RNING HTS PE C NYS
	UNDISTRIBUTED		50	50	20	0010	1550-04-61	30	5	150	22	660	36	108		-	
-	TOTAL		240	240	20	0010	1550-04-61 T	9 OTALS	10	90 240		660		1,08			15 15
NOTE: USE RC	OCK BAGS FOR SILT FENC	E WEEPS AS DIRE	ECTED BYTH	E ENGINEER							TRAFFIC C	CONTROL SIGNS	S				
	MOBILIZATION EF	ROSION CONTRO	ni						TRAFFIC CONTROL SIGNS	-	643.0920 TRAFFIC CONTROL COVERING	TRAFFIC CONTROL SIGNS	643.1000 TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL SIGNS	CONTROL SIGNS	TRAFFIC CONTROL DETOUR	643.3000 TRAFFIC CONTROL DETOUR
	WOBIELE CHOILE										SIGNS TYPE II	FIXED MESSAGE	FIXED MESSAGE	PCMS	PCMS	SIGNS	SIGNS
		628.1905 MOBILIZATION		1910 ATIONS		CATEGORY		DAYS	EACH	DAYS	EACH	EACH	SF	EACH	DAYS	EACH	DAYS
		EROSION	EMERO	GENCY		0010 10	1550-04-61 1550-04-61	30 9	24 5	720 45	14 	4	66	2	14 	122	3660
		CONTROL	ERO: CON					TOTALS		765	14		66		14		3,660
CATEGORY 0010	LOCATION 1550-04-61	EACH 3	EA 2	CH						CONSTRU	JCTION STAKING	G					
	TOTAL	3	2	2					CONST ST		650.5000 DNSTRUCTION STAKING BASE	STAKING STRUCTURE	STAKII SUPPLEM	CTION CO NG ENTAL	650.9920 NNSTRUCTION STAKING SLOPE		
	MARKERS ROW					CATEGORY	STATION	LOCATIO	NC	LF	LF	LAYOUT LS	CONTR LS	OL	STAKES LF		
		633.5100				0010	238+85 - 240+10	LT & R1	Γ	125	125	1	1		125		
		MARKERS RO	W				TOTAL			125	125	1	1		125		
CATEGORY 0010	RT	EACH 2															
	TOTAL	2					P	PAVEMENT	MARKING	G			SA	WING PAVE	MENT ITEMS		
											6.0106 NT MARKING					690.0150	
										EPOX	Y 4-INCH					SAWING ASPHALT	
	FIELD OFFICE					CATECODY	CTATION	1.004	ATIONI	YELLOW	Y 4-INCH WHITE	<u>C</u>			LOCATION	ASPHALT LF	
	FIELD OFFICE	642.5001	E			CATEGORY 0010	STATION 238+85 - 240+10		ATION OG LINE		Y 4-INCH	<u>C</u>	0010 2	TATION 238+85 240+10		ASPHALT	
		FIELD OFFICE TYPE B	E				238+85 - 240+10 238+85 - 240+10	LT FOO	G LINE ERLINE	YELLOW LF 160	Y 4-INCH WHITE LF 125 	<u></u>	0010	238+85 240+10	RT & LT	ASPHALT LF 32 42	
CATEGORY	PROJECT	FIELD OFFICE	E				238+85 - 240+10	LT FOO	G LINE ERLINE	YELLOW LF	Y 4-INCH WHITE LF 125	<u>c</u>	0010	238+85	RT & LT	ASPHALT LF 32	
0010	PROJECT 1550-04-61	FIELD OFFICE TYPE B	E				238+85 - 240+10 238+85 - 240+10	LT FOO	G LINE ERLINE	YELLOW LF 160	Y 4-INCH WHITE LF 125 	<u></u>	0010	238+85 240+10	RT & LT	ASPHALT LF 32 42	
0010	PROJECT	FIELD OFFICE TYPE B	E 				238+85 - 240+10 238+85 - 240+10 238+85 - 240+10	LT FO() CENTE) RT FO	OG LINE ERLINE OG LINE	YELLOW LF 160 	Y 4-INCH WHITE LF 125 125	<u></u>	0010 2	238+85 240+10 TOTAL	RT & LT	ASPHALT LF 32 42 74	
0010	PROJECT 1550-04-61	FIELD OFFICI TYPE B EACH 1				0010	238+85 - 240+10 238+85 - 240+10 238+85 - 240+10 TOTALS CRACK AND DA	O LT FOO	G LINE ERLINE OG LINE JRVEY	YELLOW LF 160 160 999.1500.S CRACK AND DAMAGE	Y 4-INCH WHITE LF 125 125	<u></u>	0010 2	238+85 240+10 TOTAL NG PROPER' S RES LOC	TY MONUMENT PV.0105.01 SEARCH AND EATE EXISTING	ASPHALT LF 32 42 74 TS SPV.01 VERIFY REPLACE	Y AND EXISTING
0010	PROJECT 1550-04-61 TOTAL	FIELD OFFICI TYPE B EACH 1 1	643.2				238+85 - 240+10 238+85 - 240+10 238+85 - 240+10 TOTALS CRACK AND DA	O LT FOO O CENTE O RT FOO AMAGE SU	OG LINE ERLINE OG LINE JRVEY CO	YELLOW LF 160 160 999.1500.S CRACK AND	Y 4-INCH WHITE LF 125 125		0010 2	238+85 240+10 TOTAL NG PROPER' S RES LOC F	TY MONUMENT PV.0105.01 BEARCH AND	ASPHALT LF 32 42 74 TS SPV.01 VERIFY	Y AND EXISTING ERTY
0010	PROJECT 1550-04-61 TOTAL	FIELD OFFICI TYPE B EACH 1 1 643.0100 TRAFFIC CONTROL	643.2 TRAF CONTROL	FIC DETOUR		0010	238+85 - 240+10 238+85 - 240+10 238+85 - 240+10 TOTALS CRACK AND DA	D LT FOO D CENTE D RT FOO AMAGE SU LOCA D L	OG LINE ERLINE OG LINE JRVEY CO	YELLOW LF 160 160 999.1500.S CRACK AND DAMAGE LS	Y 4-INCH WHITE LF 125 125	CATEGORY	EXISTIN	238+85 240+10 TOTAL NG PROPER' S RES LOC F M'	TY MONUMENT PV.0105.01 SEARCH AND EATE EXISTING PROPERTY	ASPHALT LF 32 42 74 TS SPV.01 VERIFY REPLACE PROPE	Y AND EXISTING ERTY MENTS
0010	PROJECT 1550-04-61 TOTAL TRAFFIC CONTROL	FIELD OFFICI TYPE B EACH 1 1 643.0100 TRAFFIC CONTROL (PROJECT)	643.2: TRAF CONTROL (PROJI	FIC DETOUR ECT)		0010	238+85 - 240+10 238+85 - 240+10 238+85 - 240+10 TOTALS CRACK AND DA	D LT FOO D CENTE D RT FOO AMAGE SU LOCA D L	G LINE ERLINE OG LINE JRVEY C ATION T	YELLOW LF 160 160 999.1500.S CRACK AND DAMAGE LS -	Y 4-INCH WHITE LF 125 125	CATEGORY 0010	EXISTIN	238+85 240+10 TOTAL NG PROPER' S RES LOC F M'	TY MONUMENT PV.0105.01 SEARCH AND EATE EXISTING PROPERTY ONUMENTS	ASPHALT LF 32 42 74 TS SPV.01 VERIFY REPLACE PROPE MONUM	Y AND EXISTING ERTY MENTS
0010	PROJECT 1550-04-61 TOTAL	FIELD OFFICI TYPE B EACH 1 1 643.0100 TRAFFIC CONTROL	643.2 TRAF CONTROL	FIC DETOUR ECT)		0010	238+85 - 240+10 238+85 - 240+10 238+85 - 240+10 TOTALS CRACK AND DA STATION 238+75 - 240+00 240+25 - 241+00	D LT FOO D CENTE D RT FOO AMAGE SU LOCA D L	G LINE ERLINE OG LINE JRVEY C ATION T	YELLOW LF 160 160 999.1500.S CRACK AND DAMAGE LS	Y 4-INCH WHITE LF 125 125	CATEGORY 0010	EXISTIN	238+85 240+10 TOTAL NG PROPER' S RES LOC F M'	TY MONUMENT PV.0105.01 SEARCH AND EATE EXISTING PROPERTY ONUMENTS	ASPHALT LF 32 42 74 TS SPV.01 VERIFY REPLACE PROPE MONUM	Y AND EXISTING ERTY MENTS S
O010 CATEGORY 0010	PROJECT 1550-04-61 TOTAL TRAFFIC CONTROL LOCATION	FIELD OFFICI TYPE B EACH 1 1 643.0100 TRAFFIC CONTROL (PROJECT) EACH	643.2: TRAF CONTROL (PROJI	FIC DETOUR ECT)		0010	238+85 - 240+10 238+85 - 240+10 238+85 - 240+10 TOTALS CRACK AND DA STATION 238+75 - 240+00 240+25 - 241+00	D LT FOO D CENTE D RT FOO AMAGE SU LOCA D L	G LINE ERLINE OG LINE JRVEY C ATION T	YELLOW LF 160 160 999.1500.S CRACK AND DAMAGE LS	Y 4-INCH WHITE LF 125 125	CATEGORY 0010	EXISTIN	238+85 240+10 TOTAL NG PROPER' S RES LOC F M'	TY MONUMENT PV.0105.01 SEARCH AND ATE EXISTING PROPERTY ONUMENTS LS 1	ASPHALT LF 32 42 74 TS SPV.01 VERIFY REPLACE PROPE MONUM LS 1	Y AND EXISTING ERTY MENTS S
CATEGORY 0010	PROJECT 1550-04-61 TOTAL TRAFFIC CONTROL LOCATION 1550-04-61	FIELD OFFICI TYPE B EACH 1 1 643.0100 TRAFFIC CONTROL (PROJECT) EACH 1	643.2: TRAF CONTROL (PROJI	FIC DETOUR ECT)		0010	238+85 - 240+10 238+85 - 240+10 238+85 - 240+10 TOTALS CRACK AND DA STATION 238+75 - 240+00 240+25 - 241+00	D LT FOO D CENTE D RT FOO AMAGE SU LOCA D L	G LINE ERLINE OG LINE JRVEY C ATION T	YELLOW LF 160 160 999.1500.S CRACK AND DAMAGE LS	Y 4-INCH WHITE LF 125 125	CATEGORY 0010	EXISTIN	238+85 240+10 TOTAL NG PROPER' S RES LOC F M'	TY MONUMENT PV.0105.01 SEARCH AND ATE EXISTING PROPERTY ONUMENTS LS 1	ASPHALT LF 32 42 74 TS SPV.01 VERIFY REPLACE PROPE MONUM LS 1	Y AND EXISTING ERTY MENTS S

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___P.L.

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STATE OF WISCONSIN

Jim

JJ

JJ

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DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET

1550-04-20

TRIBUTARY LAKE MAGNOR C-48-0019

CLEAR LAKE - CUMBERLAND

USH 63 POLK COUNTY

SECTION LINE

QUARTER LINE SIXTEENTH LINE NEW REFERENCE LINE NEW R/W LINE

EXISTING R/W LINE PROPERTY LINE LOT, TIE & OTHER MINOR LINES

CORPORATE LIMITS UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)

FEE ACQUISITION AREA (HATCHING VARIES BY OWNER) TEMPORARY LIMITED EASEMENT AREA

EASEMENT AREA (HIGHWAY, 11111111 PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)

BUILDING

NATIONAL GEODETIC SURVEY MONUMENT 🖎 SIXTEENTH CORNER MONUMENT

CORNER

CONVENTIONAL SYMBOLS

NOTATION FOR M COMBUSTABLE CAUTION: FLUIDS

NOTATION FOR HIGH VOLTAGE TRANSMISSION CAUTION LINES

ELECTRIC POLE TELEPHONE POLE PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)

NO ACCESS (BY STATUTORY AUTHORITY) ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)

BRIDGE]

CENTRAL ANGLE OR DELTA

LENGTH OF CURVE

DIRECTION AHEAD

DIRECTION BACK

TANGENT

R/W MONUMENT

NON-MONUMENTED

FOLIND IRON PIN

VALVE (GAS, WATER, ETC.)

OFF-PREMISE (1-25) SIGN

SIGN

COMPENSABLE

Ø (TYPE:

sign

NON-COMPENSABLE

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PARCEL NUMBER (25) UTILITY NUMBER (40)

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	ΡI
AHEAD	АН	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED	TLE
GAS VALVE	GV	EASEMENT	
GRID NORTH	GN	TRANSPORTATION PROJECT	TPP
HIGHWAY EASEMENT	HE	PLAT	
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	V
LEFT	LT		
MONUMENT	MON	CURVE DATA	
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	N0	LONG CHORD	LC
OUTLOT	OL	LONG CHORD BEARING	LCB
PAGE	P	RADIUS DEGREE OF CURVE	R D
POINT OF TANGENCY	PT	DEGREE OF CURVE	-

Bull



CONVENTIONAL UTILITY SYMBOLS WATER GAS TELEPHONE OVERHEAD TRANSMISSION LINES ELECTRIC CABLE TELEVISION FIBER OPTIC ____TV____ SANITARY SEWER STORM SEWER ----SAN----

LAYOUT 1 MI. SCALE

R-15-W

PROJECT LOCATION-

Barbio

Isom

63

Greele

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1550-04-20

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, POLK COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY $\frac{3}{4}$ " X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

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.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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

DEPARTMENT OF TRANSPORTATION OFFICE NORTHWEST REGIONAL OFFICE

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG USH 63 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT 8071-01-29 (2003) AND 8071-02-29

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: FAP NO. 758-A(1) 1938 AND DJ8635 1938
WISCONSIN STATE HIGHWAY COMMISSION PROJECT F 011-1 (34)
WISCONSIN STATE HIGHWAY COMMISSION PROJECT NO. 758-A-(1)
MAGNOR LAKE ASSESSOR'S PLAT

> RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 1550-04-31 - 4.01 SHEET 2 OF 2 AMENDMENT NO:

PLE

R-16-W

PLOT NAME: TPP Title 30x22

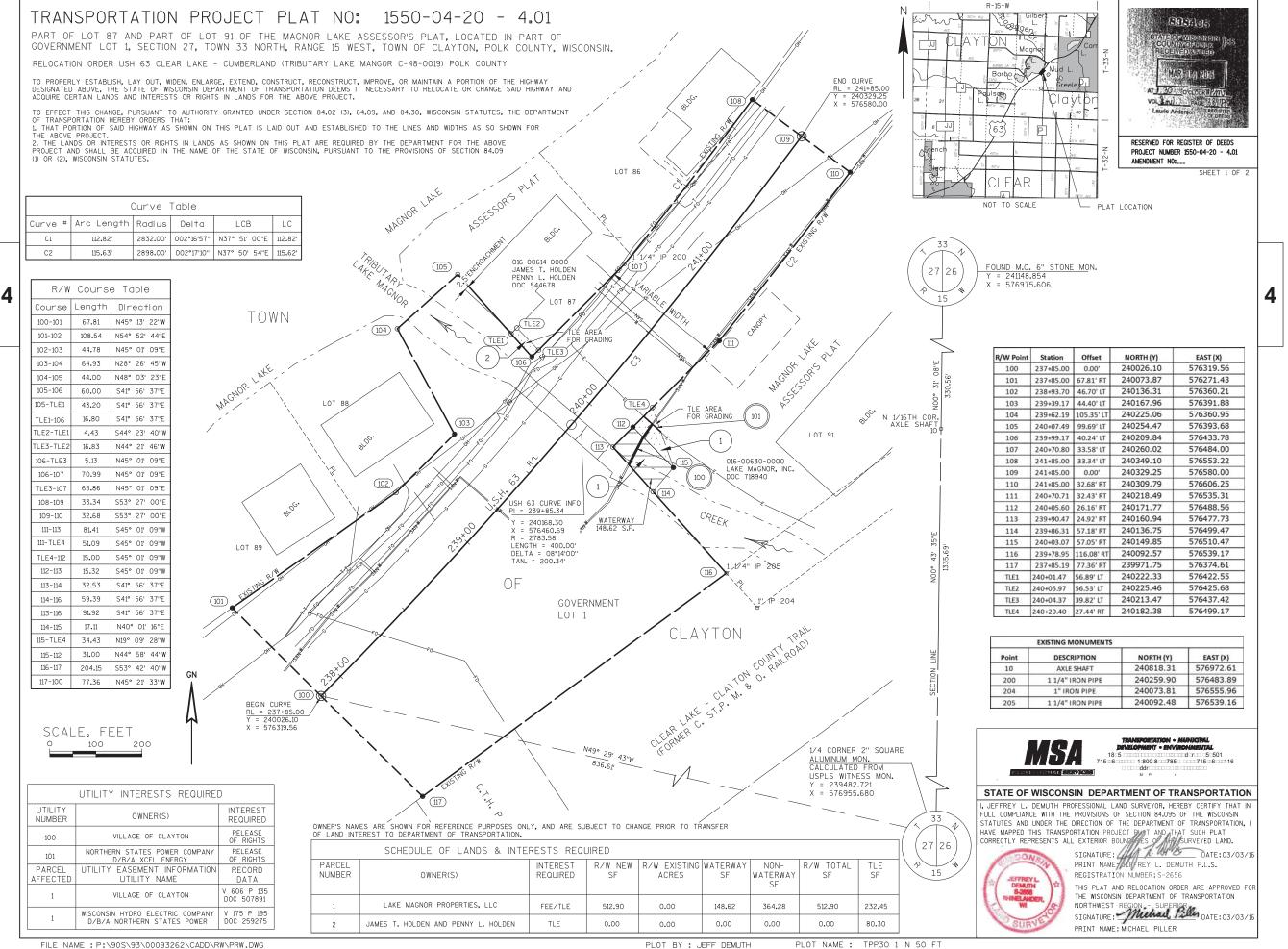
PERMANENT LIMITED

POINT OF BEGINNING

POINT OF CURVATURE

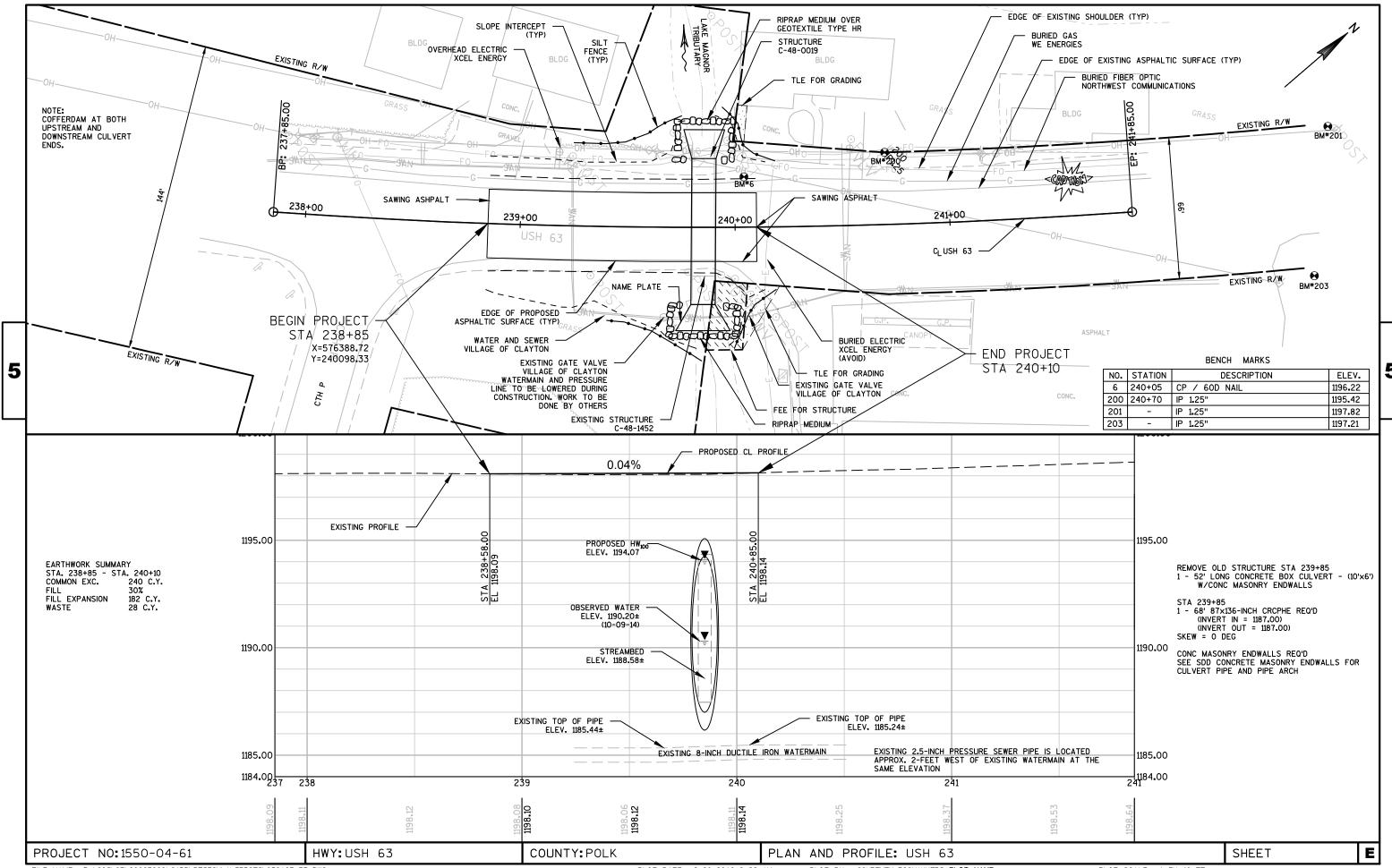
EASEMENT

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN



FILE NAME : P:\90S\93\00093262\CADD\RW\PRW.DWG APPRAISAL PLAT DATE: 03/03/2016

PLOT BY: JEFF DEMUTH PLOT DATE: 03/03/2016



Standard Detail Drawing List

08E09-06	SILT FENCE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
12A03-10	NAME PLATE (STRUCTURES)
14B29-01	SAFETY EDGE
15A01-12A	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
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- 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 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



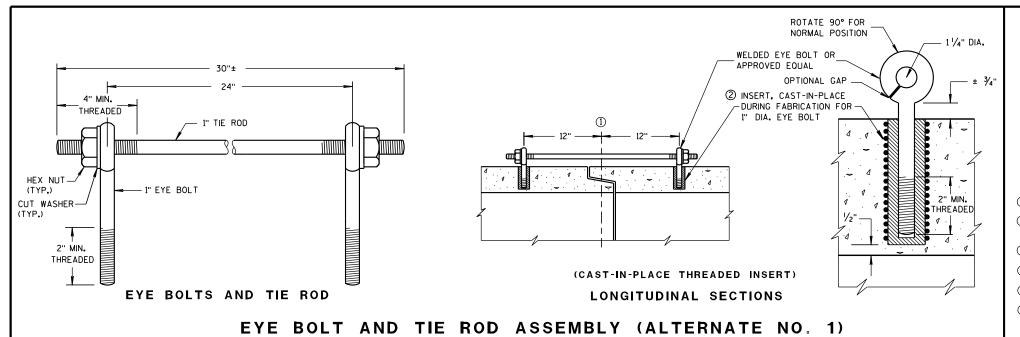
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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GENERAL NOTES

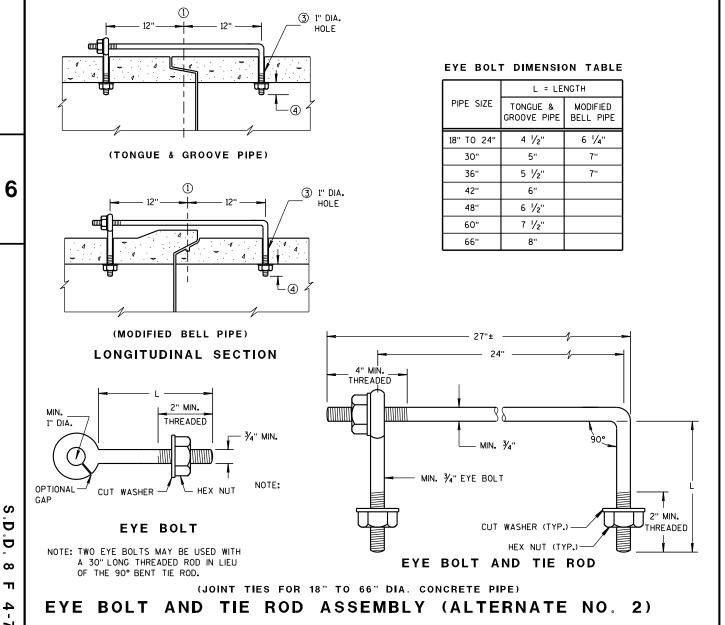
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

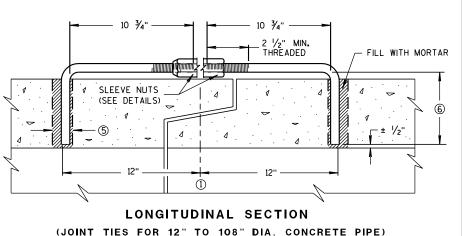
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.

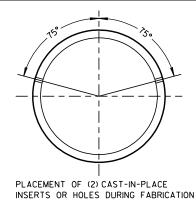


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ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

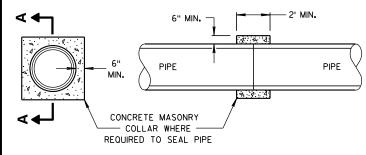


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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IN	LET		OUTLET				
R*	Χ	Υ	R*	Χ	Y		
0 - 7°	30°	30°	0 - 15°	15°	15°		
8 - 22°	25°		16 - 45°	10°			
23 - 37°	20°	=	46 - 75°	5°			
38 - 52°	15°	=	OVER 75°	0°			
53 - 67°	10°						
68 - 82°	5°	"					
OVER 82°	0°						

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

FILL SLOPES FLATTER THAN 2 $\frac{1}{2}$:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

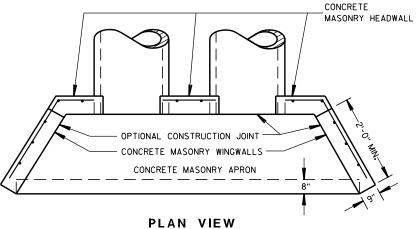
- MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.
- (2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN SPACE

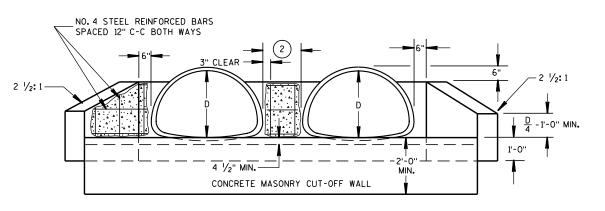
UP TO AND INCLUDING 48" 2'-0"

OVER 48" TO 72" ½ DIA. OR SPAN

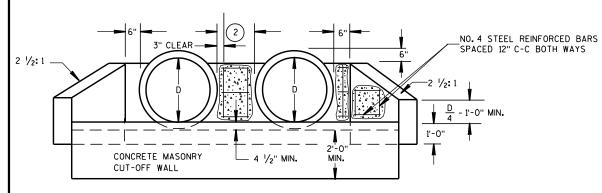
OVER 72" 3'-0"



PLAN VIEW
CULVERT PIPE AND PIPE ARCH

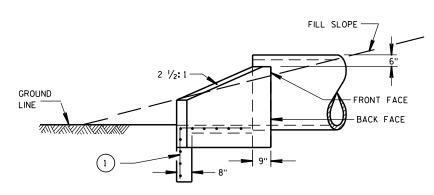


PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH 6

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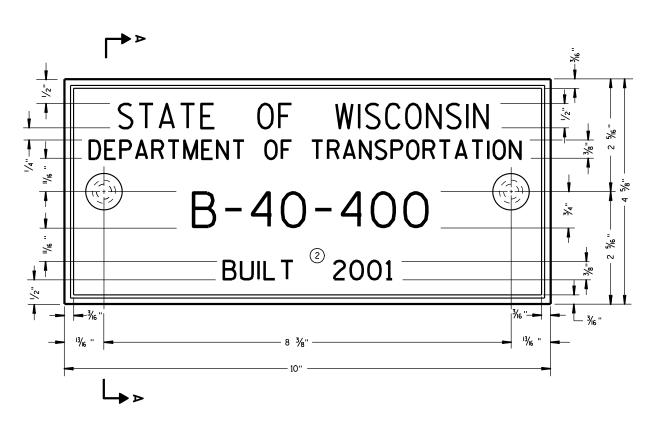
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/14/98 /S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

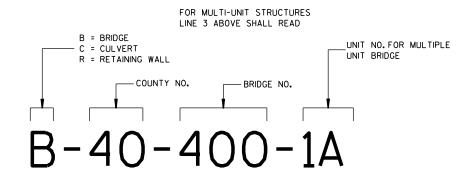
S.D.D. 8 F 10-1





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



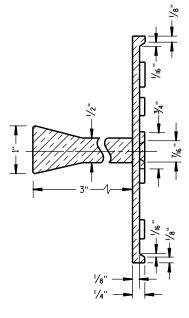
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

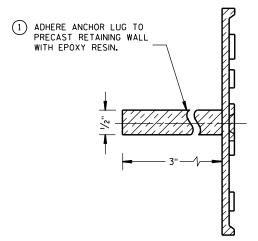
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

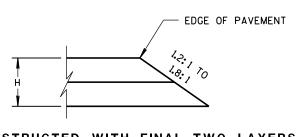
(FOR ATTACHMENT TO PRECAST STRUCTURES)

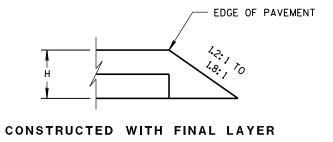
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

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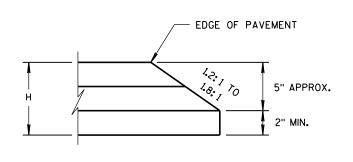


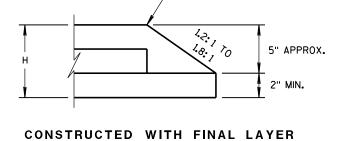


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





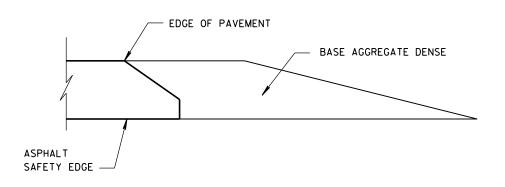
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

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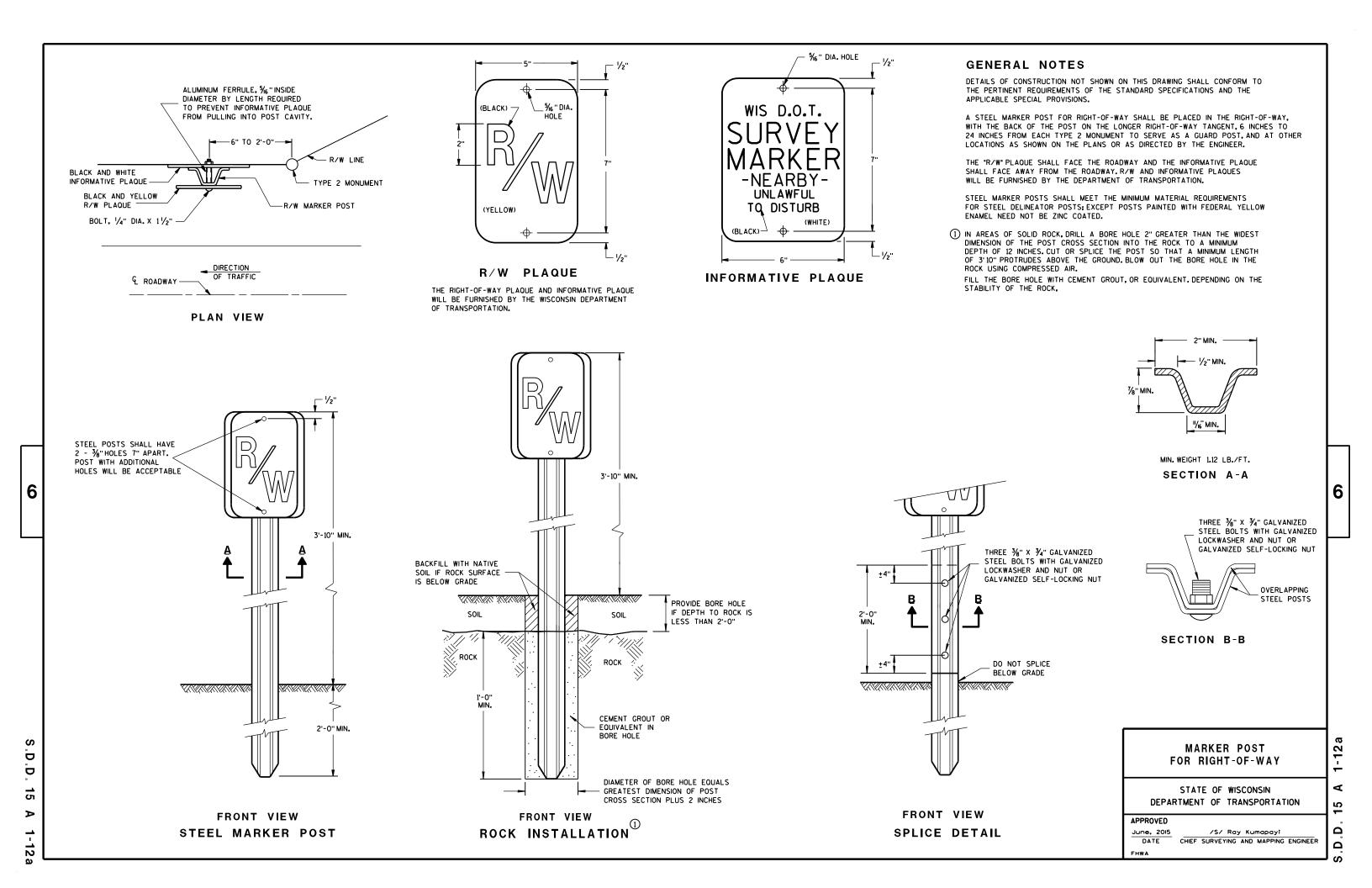
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER









ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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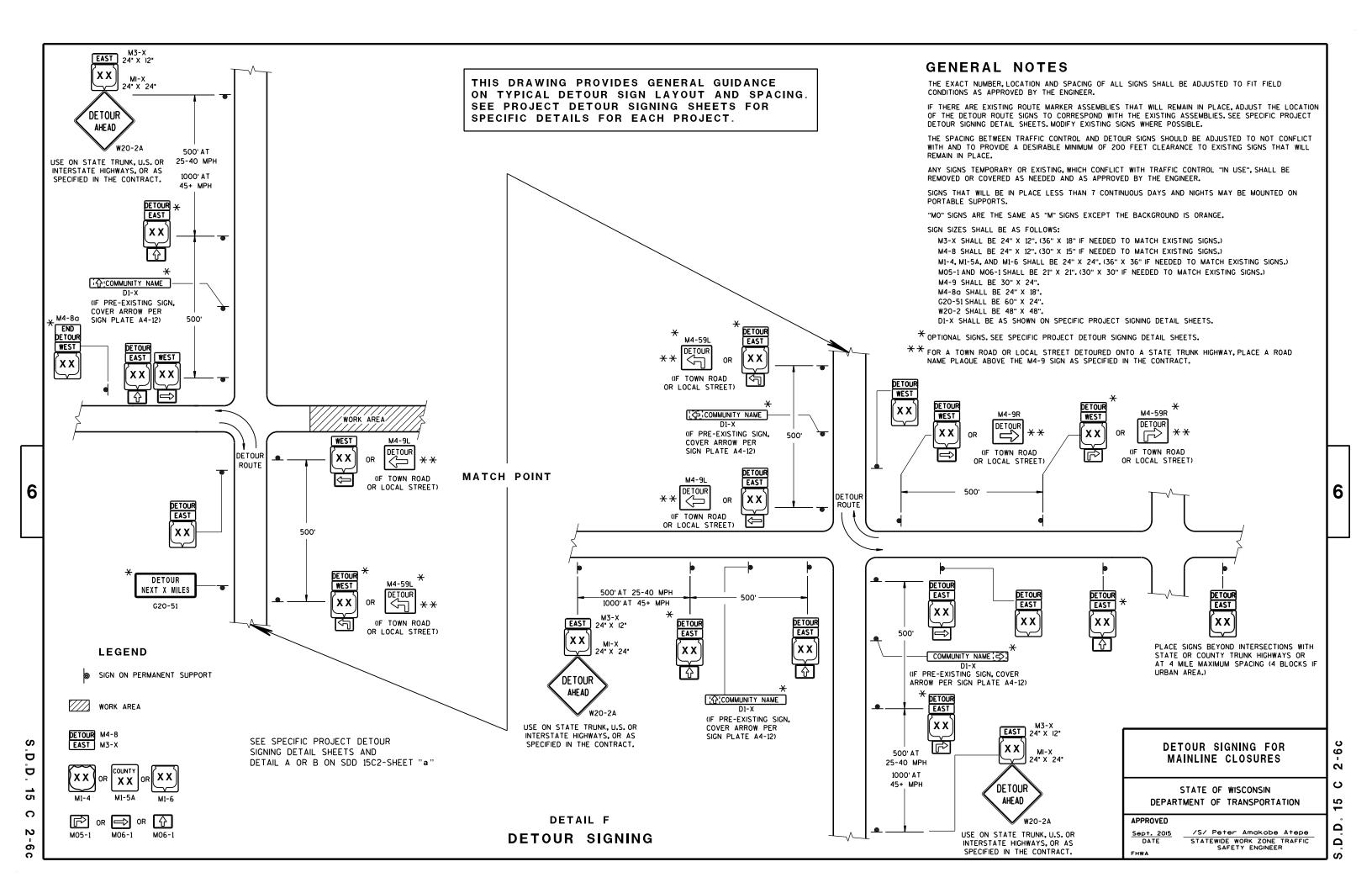
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



GENERAL NOTES

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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

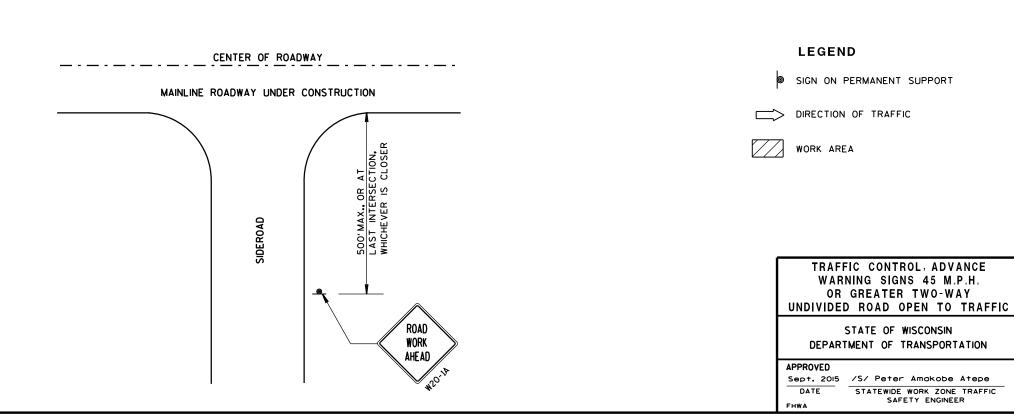
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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.

- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



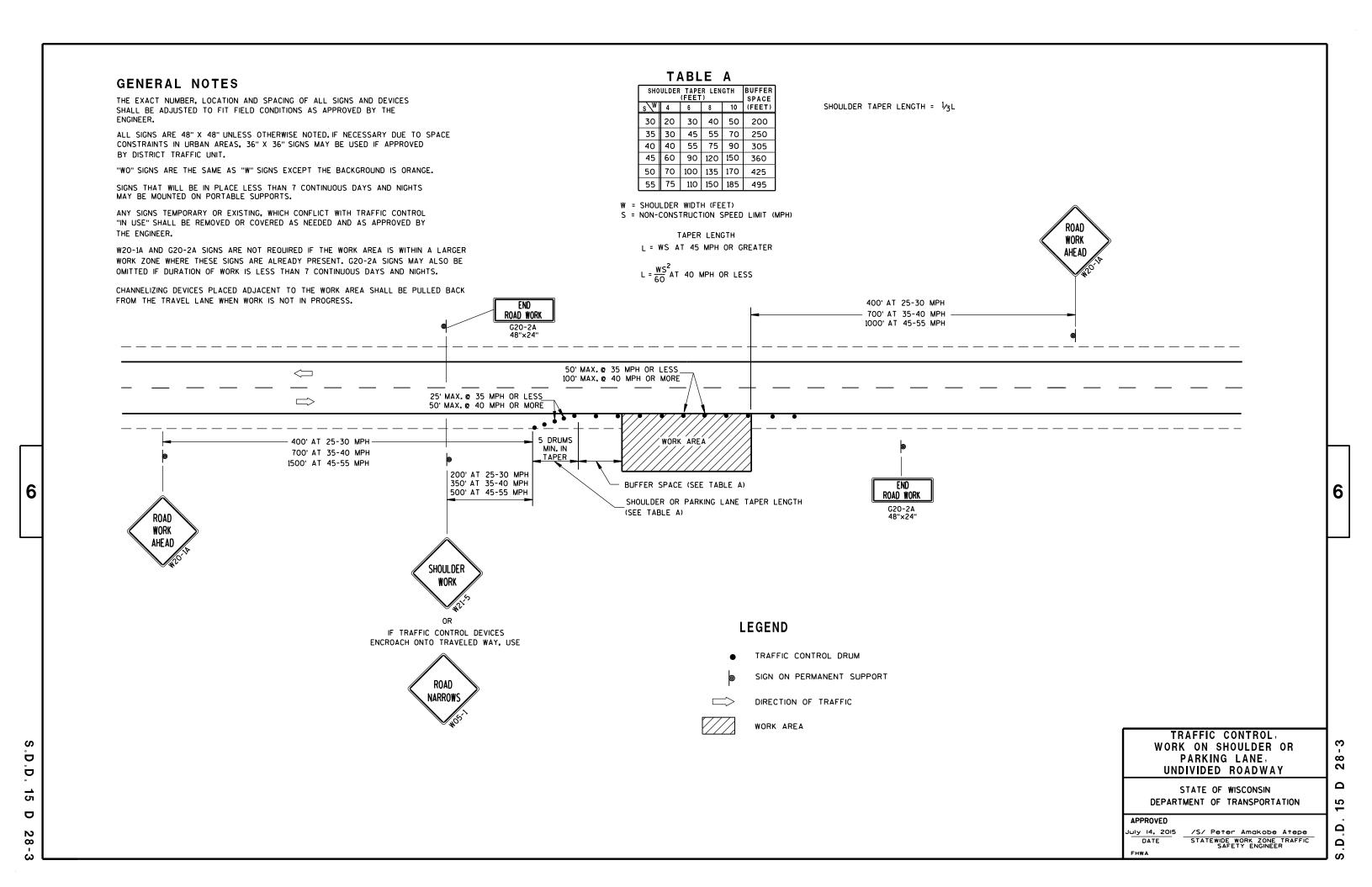
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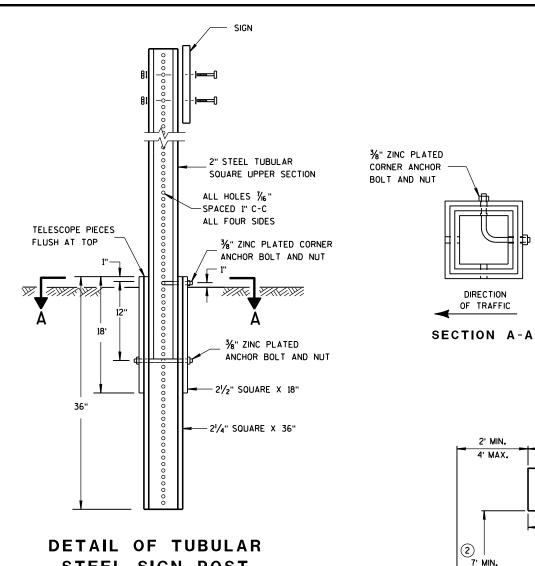
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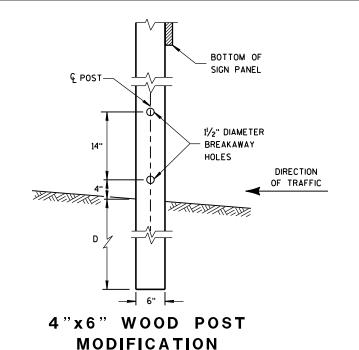
SAFETY ENGINEER











GENERAL NOTES

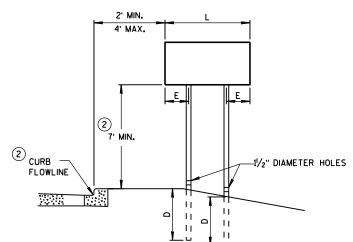
- (1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- (2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN
 THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED
 FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING,
 VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- (3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

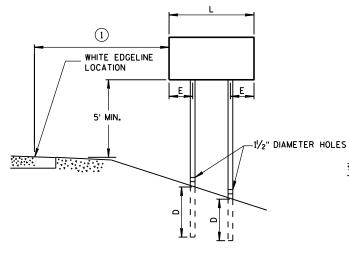
STEEL SIGN POST

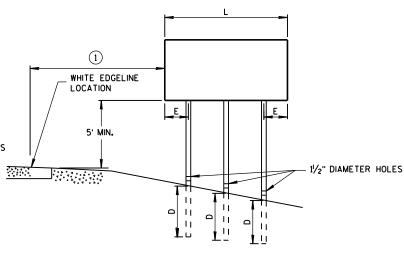
TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.







URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

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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 - 1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 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 Feb. 2015

FHWA

PATE DATE TRAFFIC ENGINEER OF DESIGN

38-1b

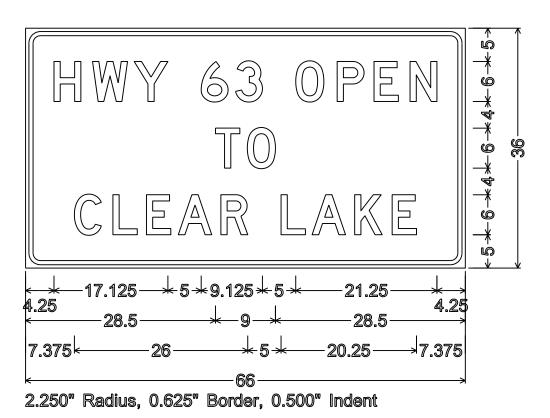
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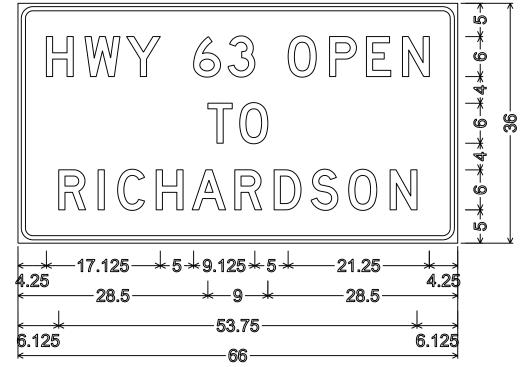
NOTES

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

Background - White Message - Black

3. Message Series - D





2.250" Radius, 0.625" Border, 0.500" Indent

PROJECT NO: 1550-04-61

HWY: USH 63

COUNTY: POLK

TEMPORARY SIGNING

SHEET NO:

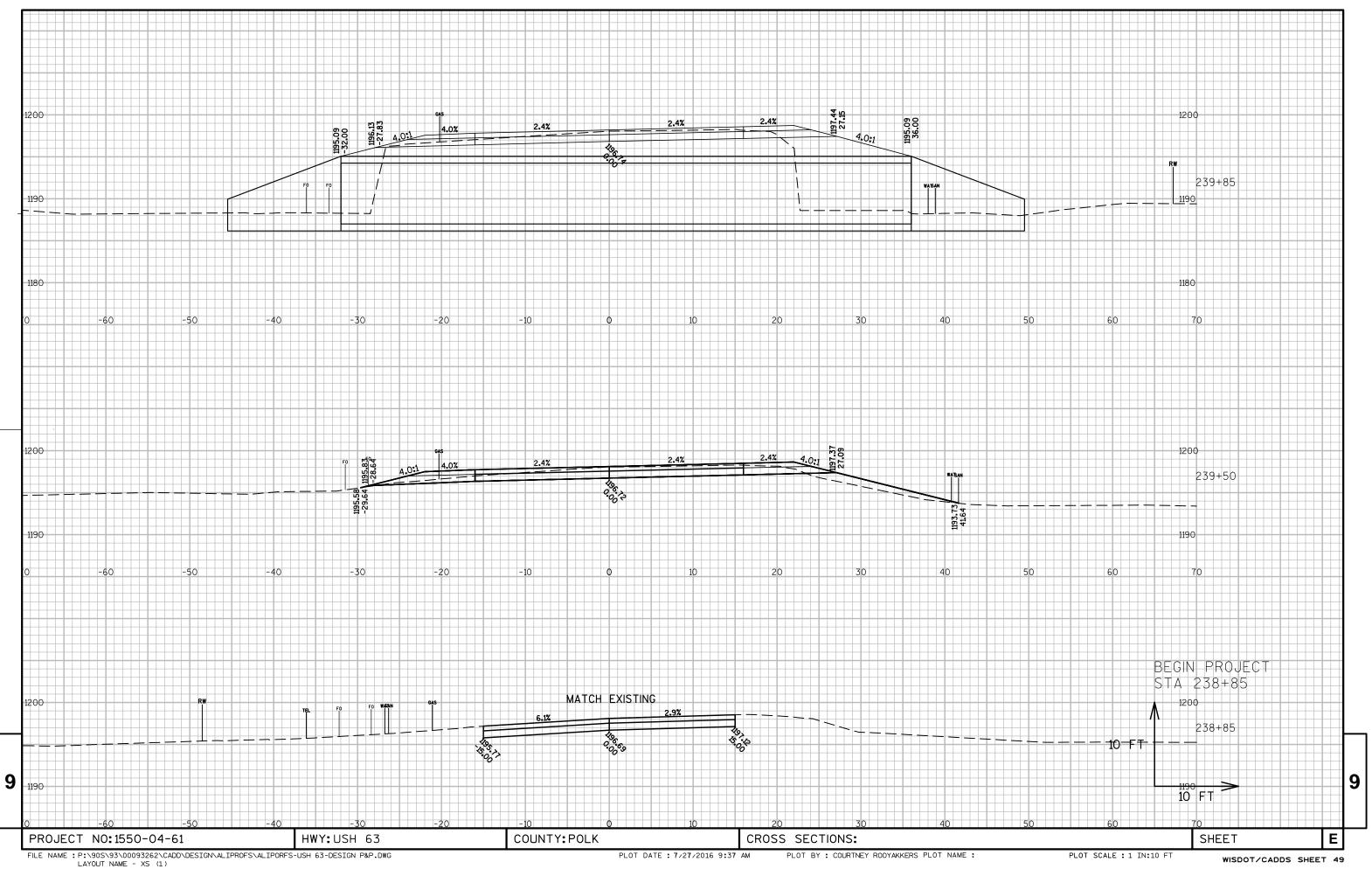
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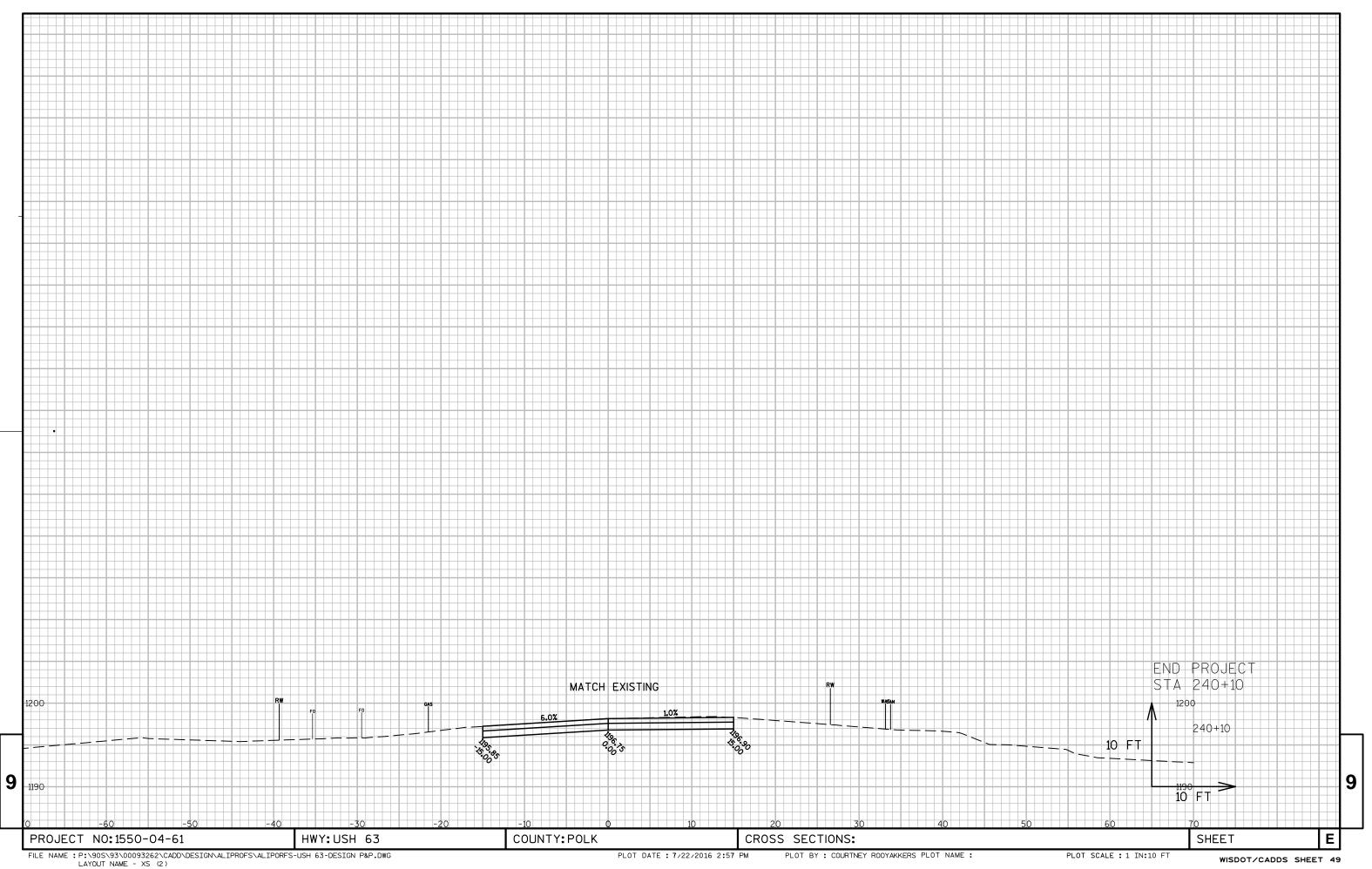
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PLOT DATE : 21-JUL-2016 16:38

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

PLOT SCALE: 14.403347:1.000000







Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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