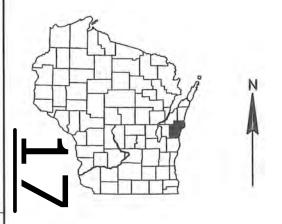
GRE | AUG 2013 PROJECT

ORDER OF SHEETS

Section No	. 1	Title
Section No	. 2	Typical Sections and Details
Section No	. 3	Estimate of Quantities
Section No	. 3	Miscellaneous Quantities
Section No	. 4	Right of Way Plat
Section No	. 5	Plan and Profile
Section No	. 6	Standard Detail Drawings

Section No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections

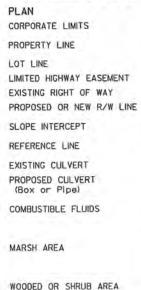
TOTAL SHEETS = 194



DESIGN DESIGNATION

A.A.D.T. 2015 = 8,300 = 9,700 A.A.D.T. 2035 D.H.V. = 1,086 = 59/41 D.D. = 7% DESIGN SPEED = 60 MPH = 1,686,300 ESALS

CONVENTIONAL SYMBOLS



PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) LABEL ___ SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

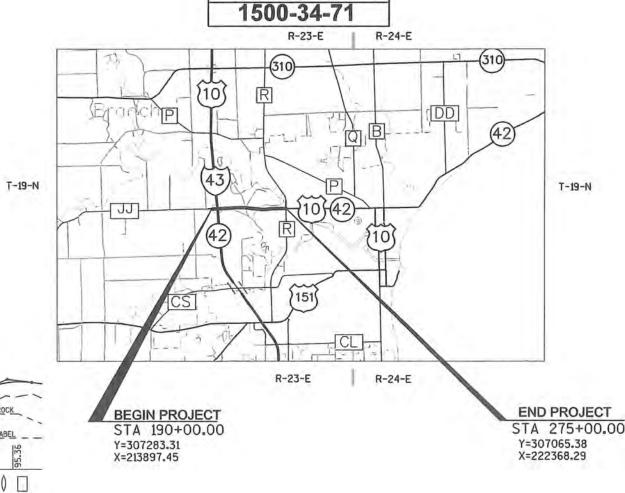
PLAN OF PROPOSED IMPROVEMENT

IH 43 - CTH R

IH 43- RAPIDS AVENUE

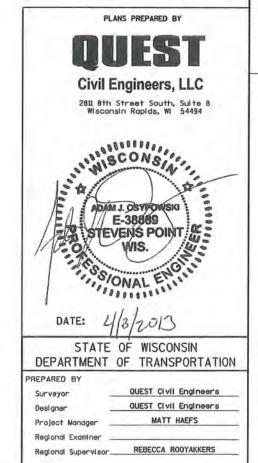
USH 10 MANITOWOC COUNTY

STATE PROJECT NUMBER



SCALE L COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MANITOWOC COUNTY. ELEVATIONS ON THIS PLAN ARE REFERENCED TO NAVD 88 TOTAL NET LENGTH OF CENTERLINE = L60 MI.

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1500-34-71



WATER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

LAYOUT

LIST OF STANDARD ABBREVIATIONS

	OENTRAL ANOLE OR RELTA	l D	DOLIND
Δ	CENTRAL ANGLE OR DELTA	LB	POUND
AADT	ANNUAL AVERAGE DAILY TRAFFIC	LC	LONG CHORD OF CURVE
AC	ASPHALT CEMENT		LINEAR FOOT
ADT	AVERAGE DAILY TRAFFIC	LS	LUMP SUM
AECPRC	APRON ENDWALL FOR CULV PIPE REIN CONC	LT	LEFT
AEW	APRON ENDWALL	M	MARSH
AGG	AGGREGATE	MAINT	MAINTENANCE
ASPH	ASPHALTIC	MATL	MATERIAL
AVG	AVERAGE	MAX	MAXIMUM
BAD	BASE AGGREGATE DENSE	MIN	MINIMUM
BM	BENCH MARK	N	NORTH
C&G	CURB AND GUTTER	NB	NORTHBOUND
CABC	CRUSHED AGGREGATE BASE COURSE	NC	NORMAL CROWN
CE	COMMERCIAL ENTRANCE	NO	NUMBER
CL or C/L	CENTER LINE	NW	NORMAL WATER
CO	COUNTY	OD DAY	OUTSIDE DIAMETER
CONC	CONCRETE	PAVT	PAVEMENT
CP	CULVERT PIPE	PC	POINT OF CURVATURE
CPCP	CULVERT PIPE CORRUGATED POLYETHYLENE	PD or PED	PEDISTAL
CPCS	CULVERT PIPE CORRUGATED STEEL	PE	PRIVATE ENTRANCE
CPRC	CULVERT PIPE REINFORCED CONCRETE	PI	POINT OF INTERSECTION
CPRCHE	CULV PIPE REIN CONC HORIZONTAL ELLIPTICAL	PL	PROPERTY LINE
CTH	COUNTY TRUNK HIGHWAY	PP	POWER POLE
CULV	CULVERT	PROJ	PROJECT
CWT	HUNDREDWEIGHT	PROP	PROPOSED
CY or CUYD	CUBIC YARD	PT	POINT OF TANGENCY
D	DEGREE OF CURVE	R	RADIUS
DG	DITCH GRADE	R/L	REFERENCE LINE
DHV	DESIGN HOUR VOLUME	R/W	RIGHT-OF-WAY
DIA	DIAMETER	RD	ROAD
DISCH		RR	
	DISCHARGE		RAILROAD
DIST	DISTRICT	RT	RIGHT
DWY	DRIVEWAY	SB	SOUTH BOUND
EAT	ENERGY ABSORBING TERMINAL	SDD	STANDARD DETAIL DRAWINGS
EB	EASTBOUND	SE	SUPERELEVATION
EBS	EXCAVATING BELOW SUBGRADE	SF or SQ FT	SQUARE FEET
EL or ELEV	ELEVATION	SHLDR	SHOULDER
ENT	ENTRANCE	SPECS	SPECIFICATIONS
EOP	EDGE OF PAVEMENT	STA	STATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	STH	STATE TRUNK HIGHWAYS
EW	ENDWALL	SY or SQ YD	SQUARE YARD
EXC	EXCAVATION	T or TAN	TANGENT
EXIST	EXISTING	Т	TRUCKS (PERCENT OF)
FE	FIELD ENTRANCE	T or TN	TOWN
FERT	FERTILIZE	TEL	TELEPHONE
FG	FINISHED GRADE	TYP	TYPICAL
FL or F/L	FLOW LINE	V	VELOCITY OR DESIGN SPEED
FO	FIBEROPTIC	VAR	VARIABLE
FP	FENCE POST	VC	VERTICAL CURVE
FT	FOOT	VPC	VERTICAL POINT OF CURVE
GAL	GALLON	VPI	VERTICAL POINT OF INTERSECTION
HMA	HOT MIX ASPHALT	VPT	VERTICAL POINT OF TANGENCY
ID	INSIDE DIAMETER	W	WATER
INV	INVERT	WB	WESTBOUND
IP	IRON PIPE OR PIN	X	EAST GRID COORDINATE
JCT	JUNCTION	Υ	NORTH GRID COORDINATE
L	LENGTH		

GENERAL NOTES

THE ALIGNMENT IN THIS PLAN IS BASED ON FIELD SURVEY SHOTS TAKEN ON THE CENTERLINE AND/OR EDGELINE. ACTUAL ROADWAY CENTERLINE MAY DEVIATE FROM THE PLAN. NEW HMA PAVEMENT SHALL FOLLOW EXISTING ROADWAY CENTERLINE. ANY ADJUSTMENTS SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

IF THE CONCRETE BASE PATCHING, CURB AND GUTTER REPLACEMENT, CLEAN AND PATCH, LONGITUDINAL JOINT REPAIR, OR HMA PAVEMENT WILL IMPACT ANY TRAFFIC SIGNAL LOOPS, PULLBOXES, OR TRAFFIC COUNTER LOOPS WITHIN THE PROJECT LIMITS, CITY OF MANITOWOC ELECTRICIANS SHALL PERFORM THE REPLACEMENTS. CONTACT THE CITY OF MANITOWOC (MARK DEZEEUW) AT 920-374-0034 TWO WEEKS PRIOR TO OPERATIONS THAT MAY AFFECT THE LOOPS.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO NAVD 88.

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF ALL LANDMARKS, BENCHMARKS, AND OTHER CONTROL POINTS IN ALL AREAS WHERE SUCH LANDMARKS, BENCHMARKS, OR OTHER CONTROL POINTS MAY EXIST.

THE CONTRACTOR SHALL PROTECT ALL SURVEY MARKERS. SURVEY MARKERS SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

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

PAVING LIMITS ON THE PLAN ARE APPROXIMATE. ACTUAL PAVING LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS CONSTRUCTION OPERATIONS SHALL BE ENTIRELY REMOVED AND PROPERLY DISPOSED OF IMMEDIATELY OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND RESTORATION (INCLUDING, BUT NOT LIMITED TO, SEED, FERTILIZER, MULCH, AND EROSION MAT) OF ANY DISTURBED AREAS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AS DETERMINED BY THE ENGINEER.

EROSION CONTROL ITEMS ARE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

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

APPROX. SIGN LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. PROPER PLACEMENT OF THE SIGNS (ELEVATION, OFFSET, LEVEL, AND ORIENTATION) IS THE RESPONSIBILITY OF THE CONTRACTOR.

DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

HWY: USH 10	COUNTY: MANITOWOC	GENERAL NOTES	SHEET:	F

2

2

MANITOWOC COUNTY HIGHWAY DEPARTMENT

GARY KENNEDY - COMMISSIONER

3500 STATE HWY 310

MANITOWOC, WI 54220-9659 TELEPHONE: (920) 683-4345

FAX: (920) 683-4366

EMAIL: garykennedy@co.manitowoc.wi.us

CITY OF MANITOWOC

DIRECTOR OF PUBLIC WORKS VALERIE MELLON, P.E. 900 QUAY ST. MANITOWOC, WI 54220

TELEPHONE: (920) 686-6910 FAX: (920) 686-6906

EMAIL: vmellon@manitowoc.org

MANITOWOC COUNTY HIGHWAY DEPARTMENT

JOHN KROPP - SURVEY 3500 STATE HWY 310 MANITOWOC, WI 54220-9659 TELEPHONE: (920) 683-4348

FAX: (920) 683-4366

EMAIL: johnkropp@co.manitowoc.wi.us

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ATTN: MATT SCHAEVE 2984 SHAWANO AVE GREEN BAY, WI 54313 TELEPHONE: (920) 662-5472

EMAIL: matthewschaeve@wisconsin.gov

UTILITY CONTACTS

AT&T WISCONSIN – COMMUNICATION LINE ATTN: KARI JENSEN 205 SOUTH JEFFERSON STREET GREEN BAY, WI 54301 TELEPHONE: (920) 433-4112

EMAIL: junkbox2082@sbcglobal.net

AMERICAN TRANSMISSION COMPANY, LLC - ELECTRIC

TRANSMISSION ATTN: MIKE OLSEN 801 O'KEEFE RD P.O. BOX 6113

DE PERE, WI 54115-6113 TELEPHONE: (920) 338-6582 CELL PHONE: (920) 660-2390 EMAIL: molsen@atcllc.com

CITY OF MANITOWOC - SANITARY SEWER

ATTN: GREG MINIKEL 900 QUAY STREET MANITOWOC, WI 554220 PHONE: (920) 686-6910 CELL PHONE: (920) 374-0411 EMAIL: gminikel@manitowoc.org

CITY OF MANITOWOC - TRAFFFIC SIGNALS AND LOOP DETECTORS

ATTN: GREG MINIKEL
900 QUAY STREET
MANITOWOC, WI 554220
PHONE: (920) 686-6910
CELL PHONE: (920) 374-0411
EMAIL: gminikel@manitowoc.org

COMCAST - COMMUNICATION LINE

ATTN: DAVID HOWARTH P.O. BOX 429

MANITOWOC, WI 54221-0429 TELEPHONE: (920) 482-5563 CELL PHONE: (920) 374-0292

EMAIL: david_howarth@cable.comcast.com

MANITOWOC PUBLIC UTILITIES - ELECTRIC / FIBER OPTICS

ATTN: STEVE BACALZO

P.O. BOX 1090 MANITOWOC, WI 54221-1090 TELEPHONE: (920) 686-4310 EMAIL: sbacalzo@mpu.org

MANITOWOC PUBLIC UTILITIES - WATER

ATTN: ROBERT MICHAELSON

1303 SOUTH 8TH ST P.O. BOX 1090

MANITOWOC, WI 54221-1090 TELEPHONE: (920) 686-4354 CELL PHONE: (920)374-0959 EMAIL: rmichaelson@mpu.org PAETEC - COMMUNICATION LINE

ATTN: JOHN LOUIS
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
TELEPHONE: (414) 831-5041
CELL PHONE: (414) 305-0332
EMAIL: john.louis@windstream.com

TRANS CANADA - GAS / PETROLEUM

ATTN: STEVE WHITTY W8715 TOWER DRIVE ADELL, WI 53001

TELEPHONE: (262) 626-3441 CELL PHONE: (920) 375-0475

EMAIL: steven_whitty@transcanada.com

WISCONSIN PUBLIC SERVICE CORPORATION - GAS

ATTN: JERRY PEOT 800 COLUMBUS STREET TWO RIVERS, WI 54241 TELEPHONE: (920) 657-1815 CELL PHONE: (920) 655-0522

EMAIL: gjpeot@wisconsinpublicservice.com

WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRIC

ATTN: JEFF PELISCHEK 800 COLUMBUS STREET TWO RIVERS, WI 54241 TELEPHONE: (920) 657-1816 CELL PHONE: (920) 323-4836

EMAIL: jspelischek@wisconsinpublicservice.com

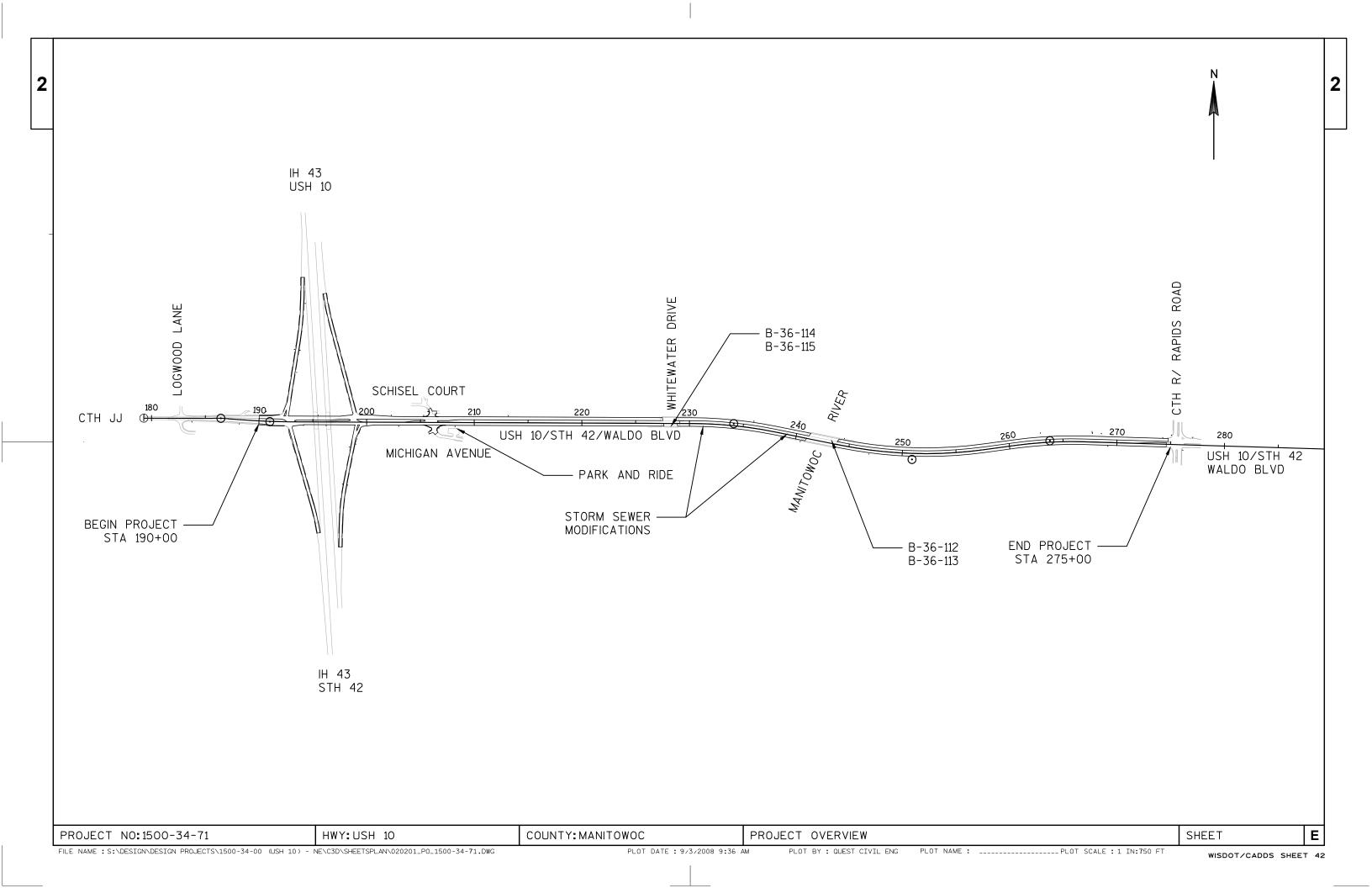


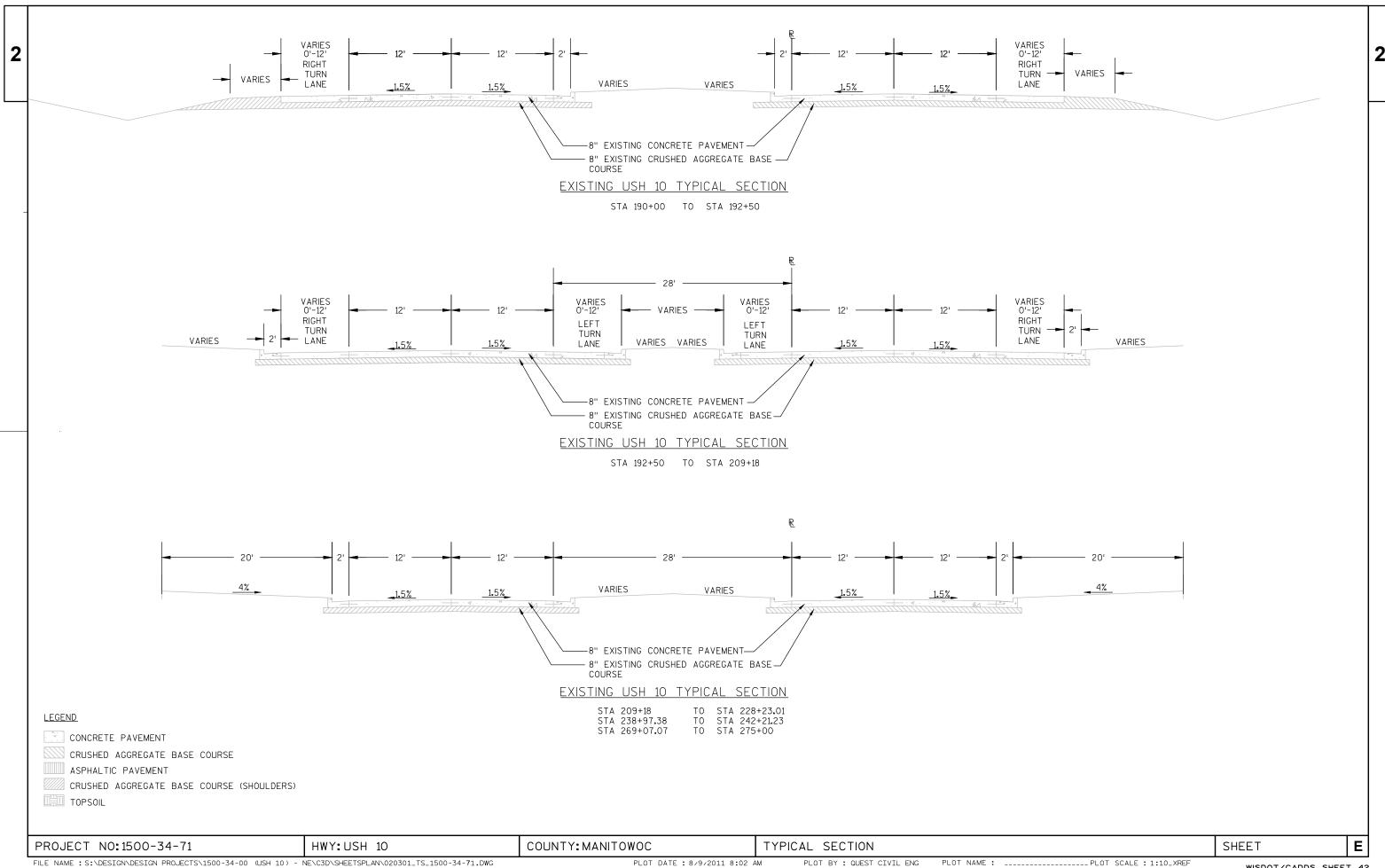
CALL 811 3 WORK DAYS BEFORE YOU DIG OR TOLL FREE (800) 242-8511 HEARING IMPAIRED TDD (800) 542-2289 www.DiggersHotline.com

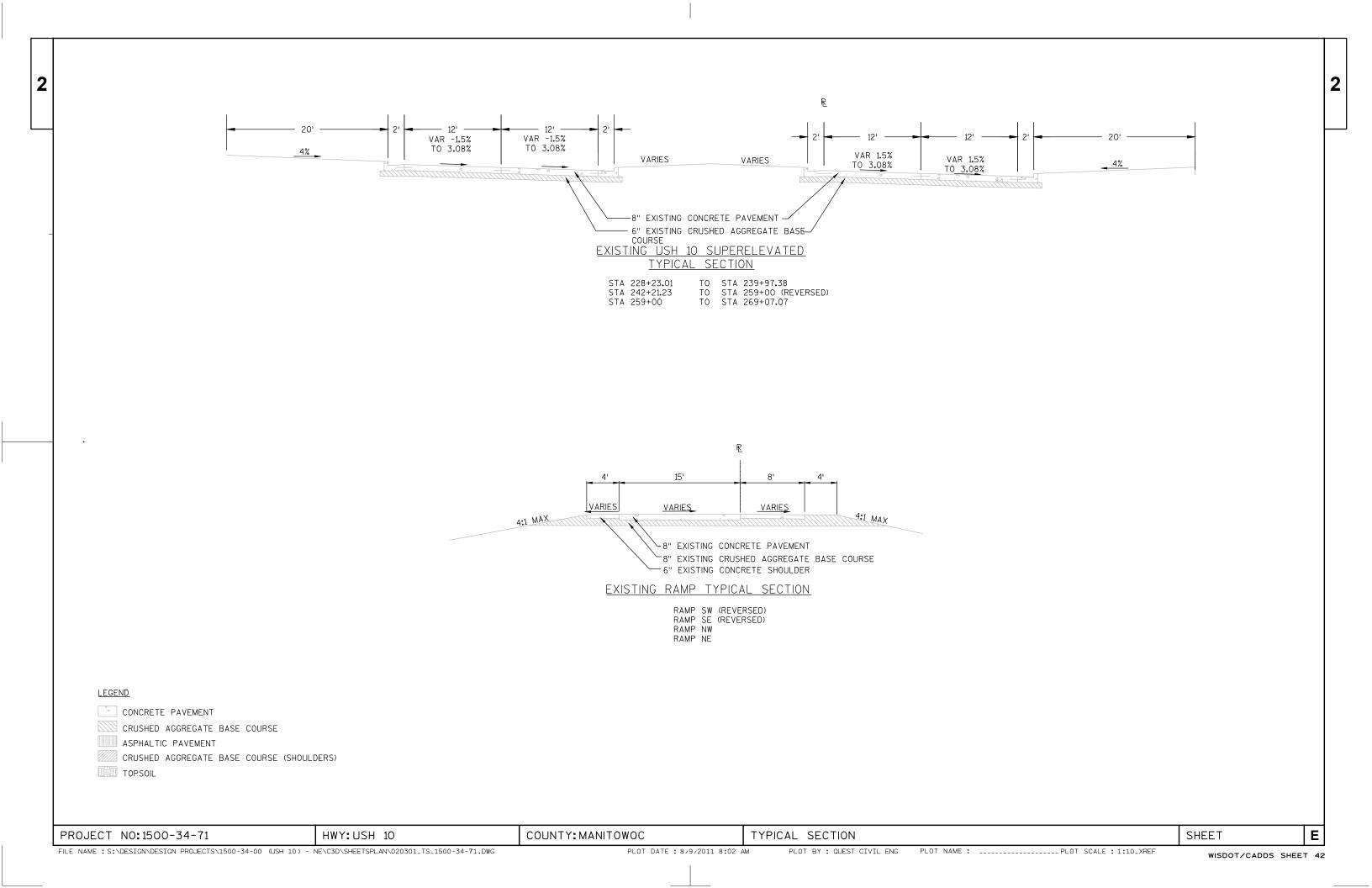
CALL DIGGERS HOTLINE
TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU DIG.

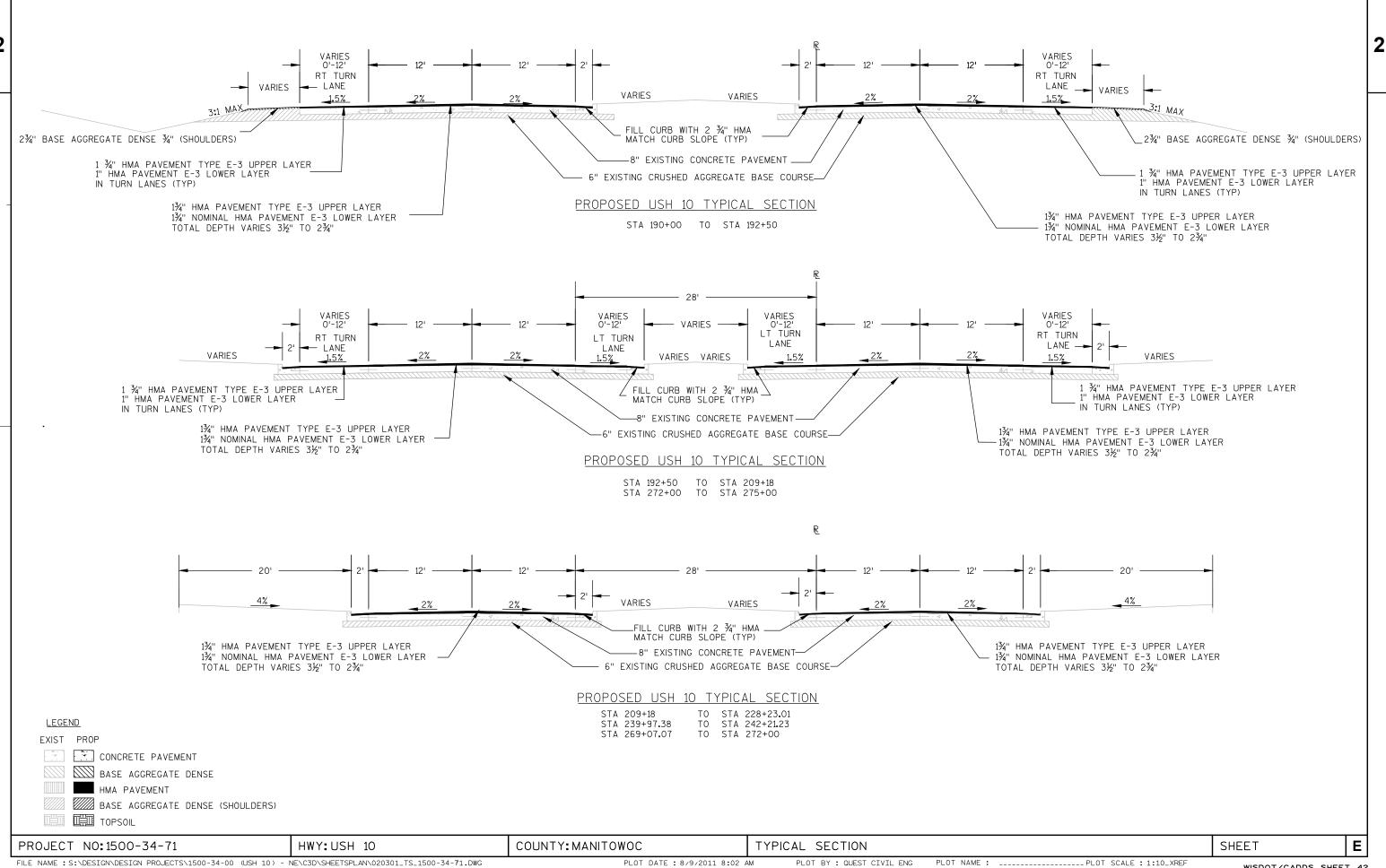
WISCONSIN STATUTE 182.0175 REQUIRES MINIMUM OF 3 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

PROJECT NO: 1500-34-71 HWY: USH 10 COUNTY: MANITOWOC GENERAL NOTES SHEET:

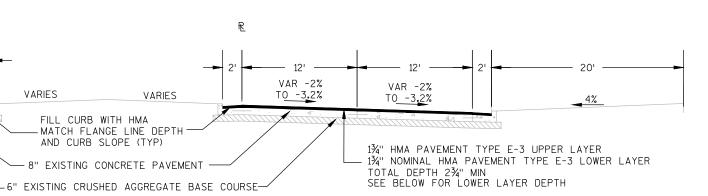












LEGEND

EXIST PROP

CONCRETE PAVEMENT

BASE AGGREGATE DENSE HMA PAVEMENT

BASE AGGREGATE DENSE (SHOULDERS)

20'

4%

SEE BELOW FOR LOWER LAYER DEPTH

TOTAL DEPTH 23/4" MIN

13/4" HMA PAVEMENT TYPE E-3 UPPER LAYER

134" NOMINAL HMA PAVEMENT TYPE E-3 LOWER LAYER

TOPSOIL

PROPOSED USH 10 SUPERELEVATED

VARIES

TYPICAL SECTION

STA 228+23.01 TO STA 239+97.38 TO STA 259+00 (REVERSED) STA 242+21.23 TO STA 269+07.07 STA 259+00

CURVE 1 ENTRY

END NORMAL CROWN STA 228+23.01

1.00" 2% 2% 1.00"

END TANGENT RUNOUT STA 229+23.01

0% 2% 1.72" 1.00"

REVERSE CROWN STA 230+23.01

2.44" 1.00" 2% 1.72' 2%

FULL SUPER STA 231+03.01 - STA 237+17.38 3.2% 1.72" 3.2% 1.55" 1.89' 3.08% 3.08%

CURVE 1 EXIT

VAR 2%

TO -3.2%

VAR 2%

TO -3.2%

REVERSE CROWN STA 237+97.38

2.44" 1.00" 2% 2% 1.5%

BEGIN RUNOUT STA 238+97.38 2% 0% 1.72" 1.00"

RESUME NORMAL CROWN STA 239+97.38 2% 2% 1.72" 1.00' CURVE 2 ENTRY

END NORMAL CROWN STA 242+21.23

2% 2% 1.00" 1.72" 1.00" 1.5% 1.5%

END TANGENT RUNOUT STA 243+21.23 2% 0% 1,00" 1.72" 1.72"

REVERSE CROWN STA 244+21.23 1.00" 2.44 1.72" 2% 2%

FULL SUPER STA 245+01.23 - STA 256+78.33 1.55" 1.72" 1.89" 3.2%

TRANSITION CURVE 2 TO CURVE 3

REVERSE CROWN STA 257+58.33

1.00" 1.72" 2.44" 2% 2%

STA 259+00 1.72" 1.72" 1.72" 0% 0%

REVERSE CROWN STA 260+48.71 2.44" 1.00" 2% 2%

CURVE 3 EXIT

FULL SUPER STA 261+28.71 - STA 266+27.07 1.89" 1.72" 1.55" 3.2% 3.2%

REVERSE CROWN STA 267+07.07 2.44" 2% 1.72" 2% 1.00"

BEGIN TANGENT RUNOUT STA 268+07.07 0% 2% 1.72" 1.00"

RESUME NORMAL CROWN STA 269+07.07 1.00" 2% 2% 1.00"

SHFFT

SUPERELEVATION HMA LOWER LAYER PAVEMENT DEPTHS

KEY:

DEPTH AT DEPTH AT DEPTH AT FLANGE LINE CROWN FLANGE LINE SLOPE SLOPE

PROJECT NO: 1500-34-71

HWY: USH 10

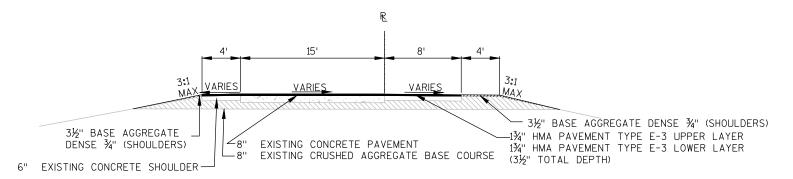
COUNTY: MANITOWOC

TYPICAL SECTION

WISDOT/CADDS SHEET 42

Ε

2



PROPOSED RAMP TYPICAL SECTION

RAMP SW (REVERSED) RAMP SE (REVERSED) RAMP NW RAMP NE

<u>LEGEND</u>

EXIST PROP

CONCRETE PAVEMENT

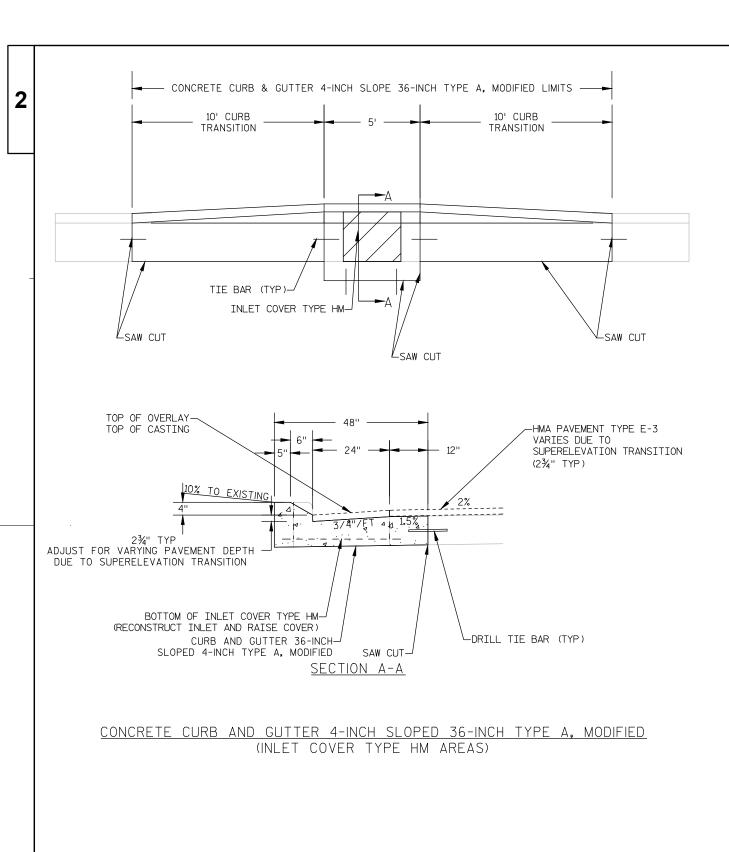
BASE AGGREGATE DENSE

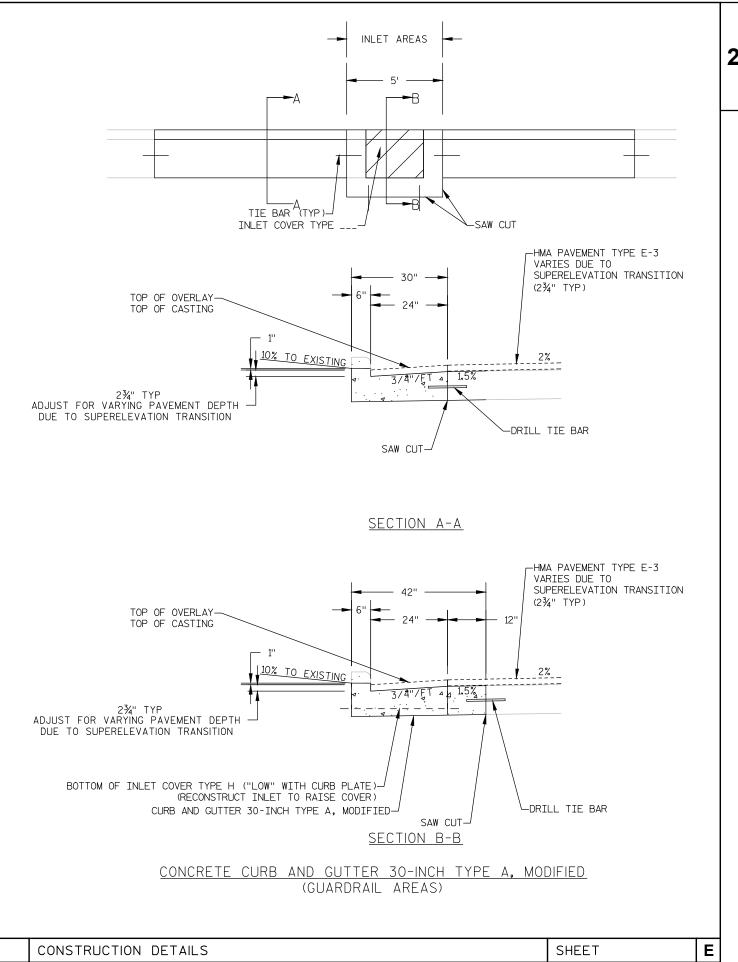
HMA PAVEMENT

BASE AGGREGATE DENSE (SHOULDERS)

TOPSOIL

PROJECT NO:1500-34-71 HWY:USH 10 COUNTY:MANITOWOC TYPICAL SECTION SHEET **E**

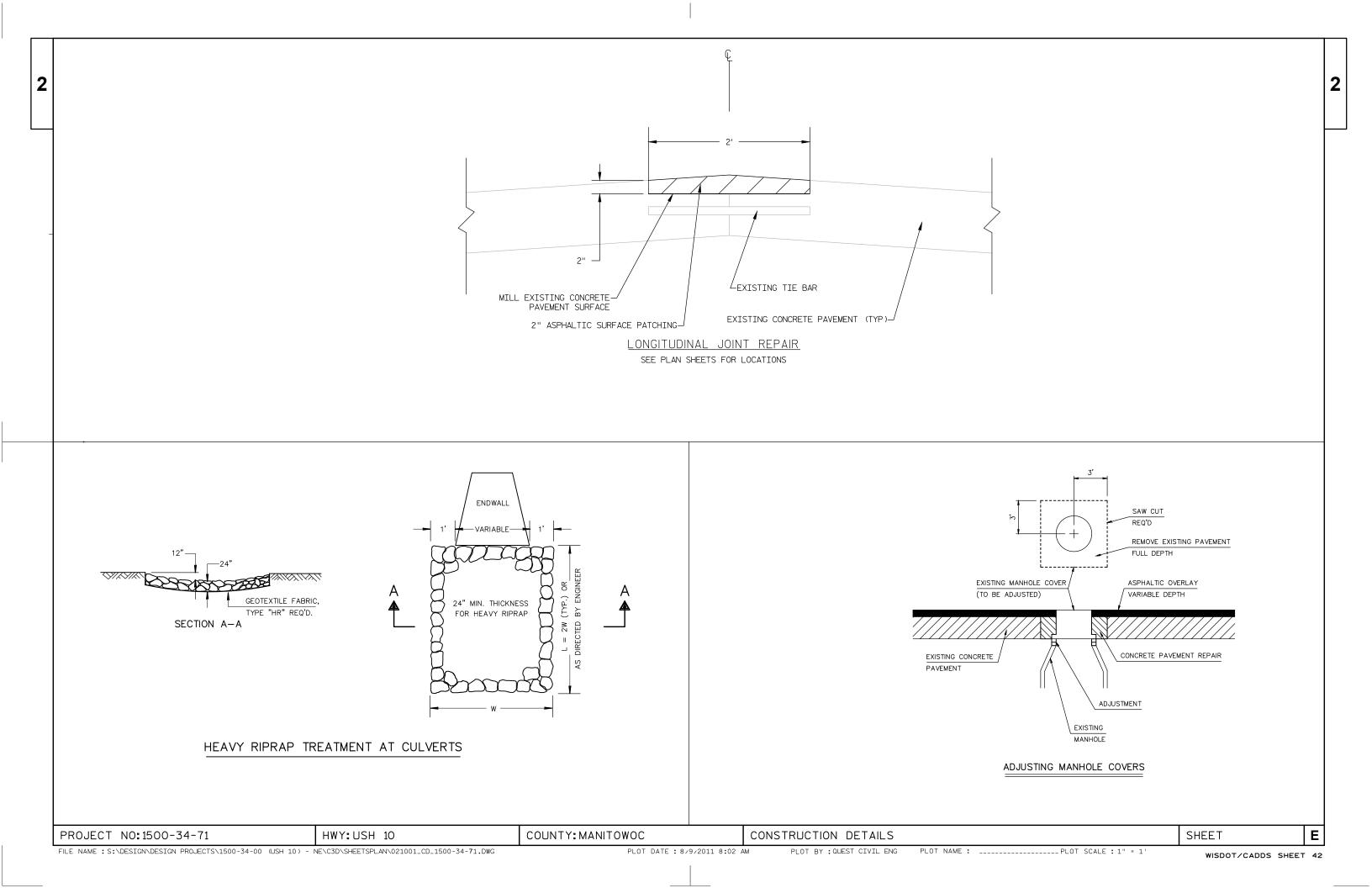




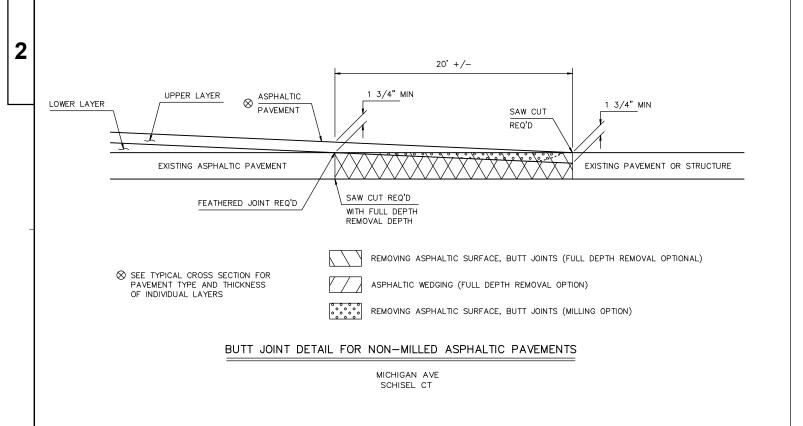
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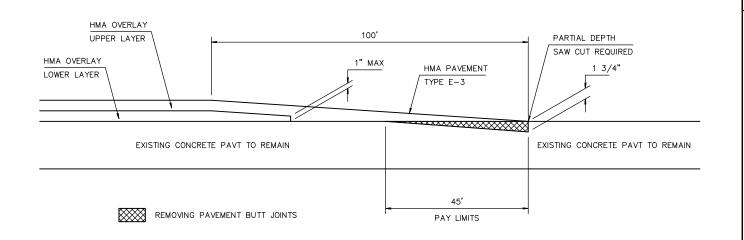
PROJECT NO: 1500-34-71

COUNTY: MANITOWOC



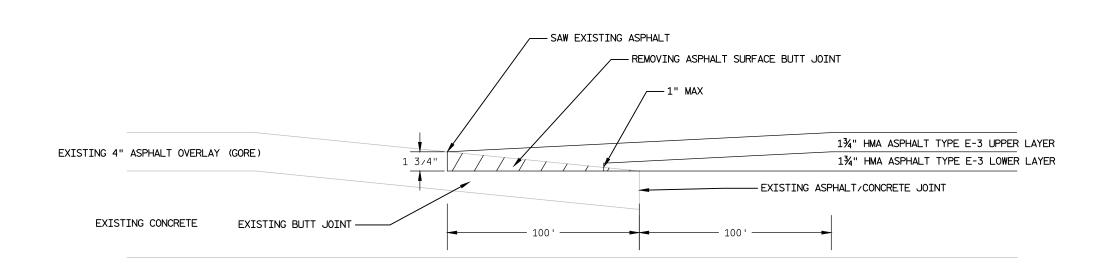






REMOVING PAVEMENT BUTT JOINT DETAIL

AT PROJECT LIMITS AND ON APPROACH SLABS



HWY: USH 10

PROJECT NO: 1500-34-71

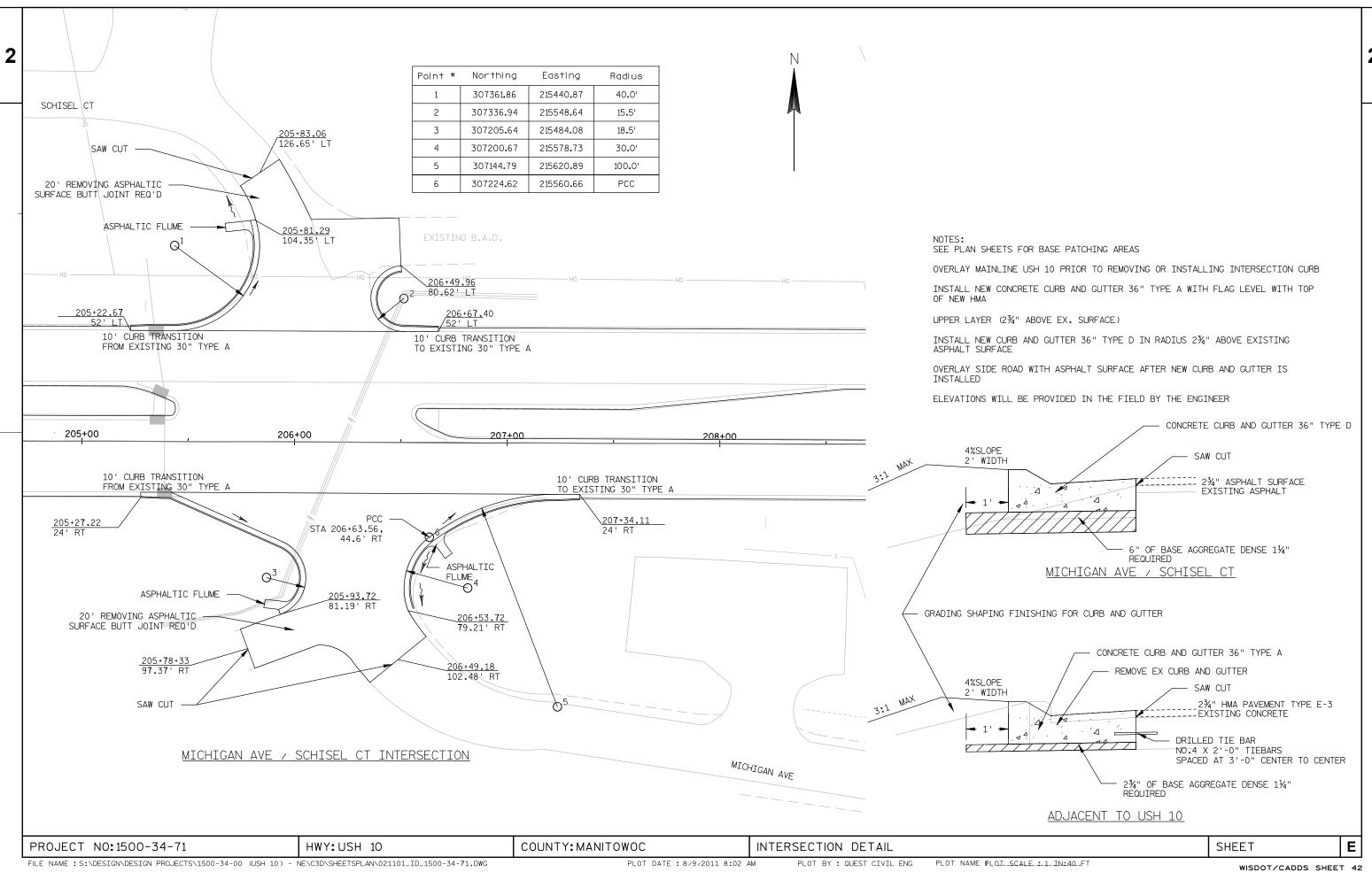
COUNTY: MANITOWOC

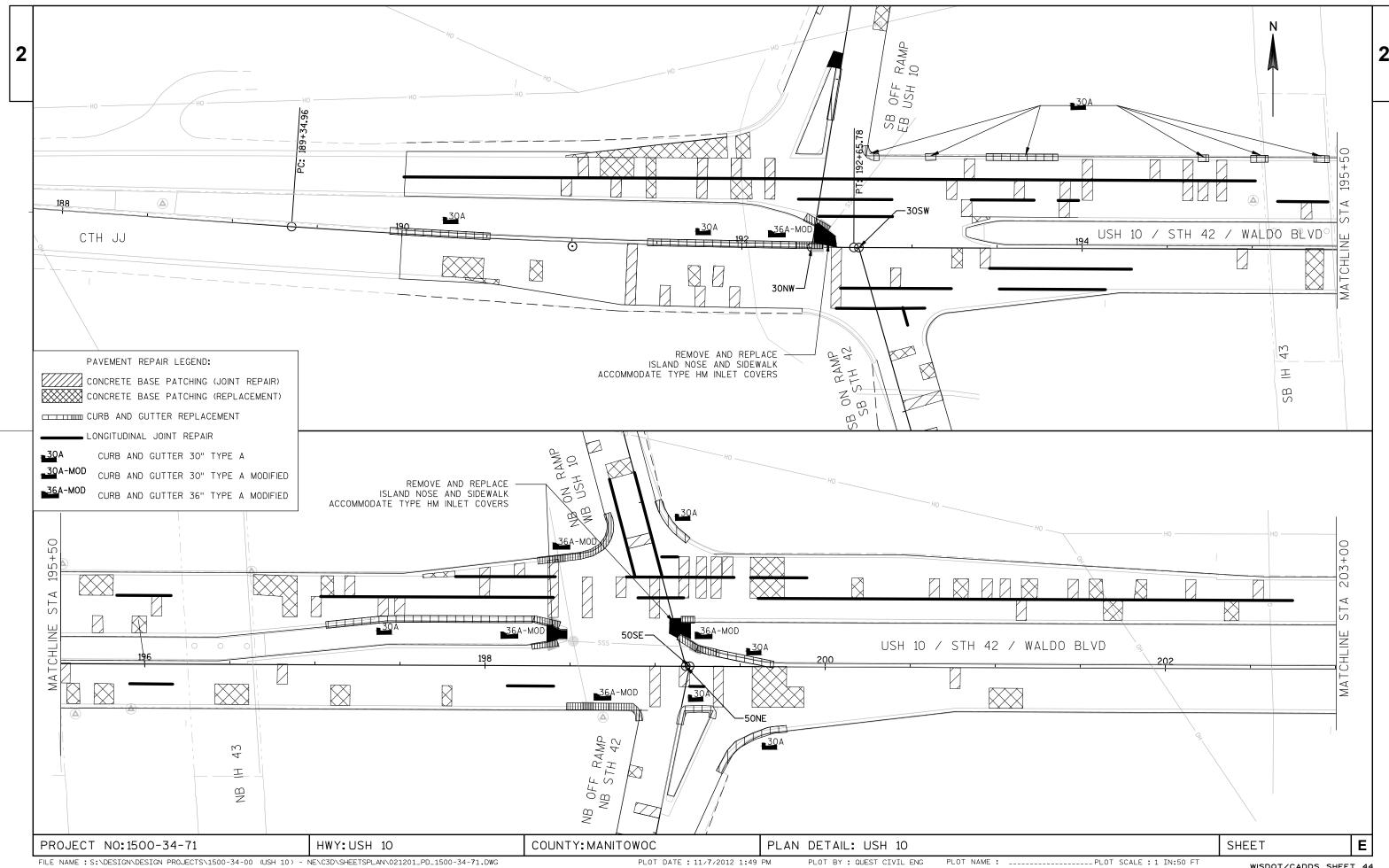
BUTT JOINT AT RAMP GORES

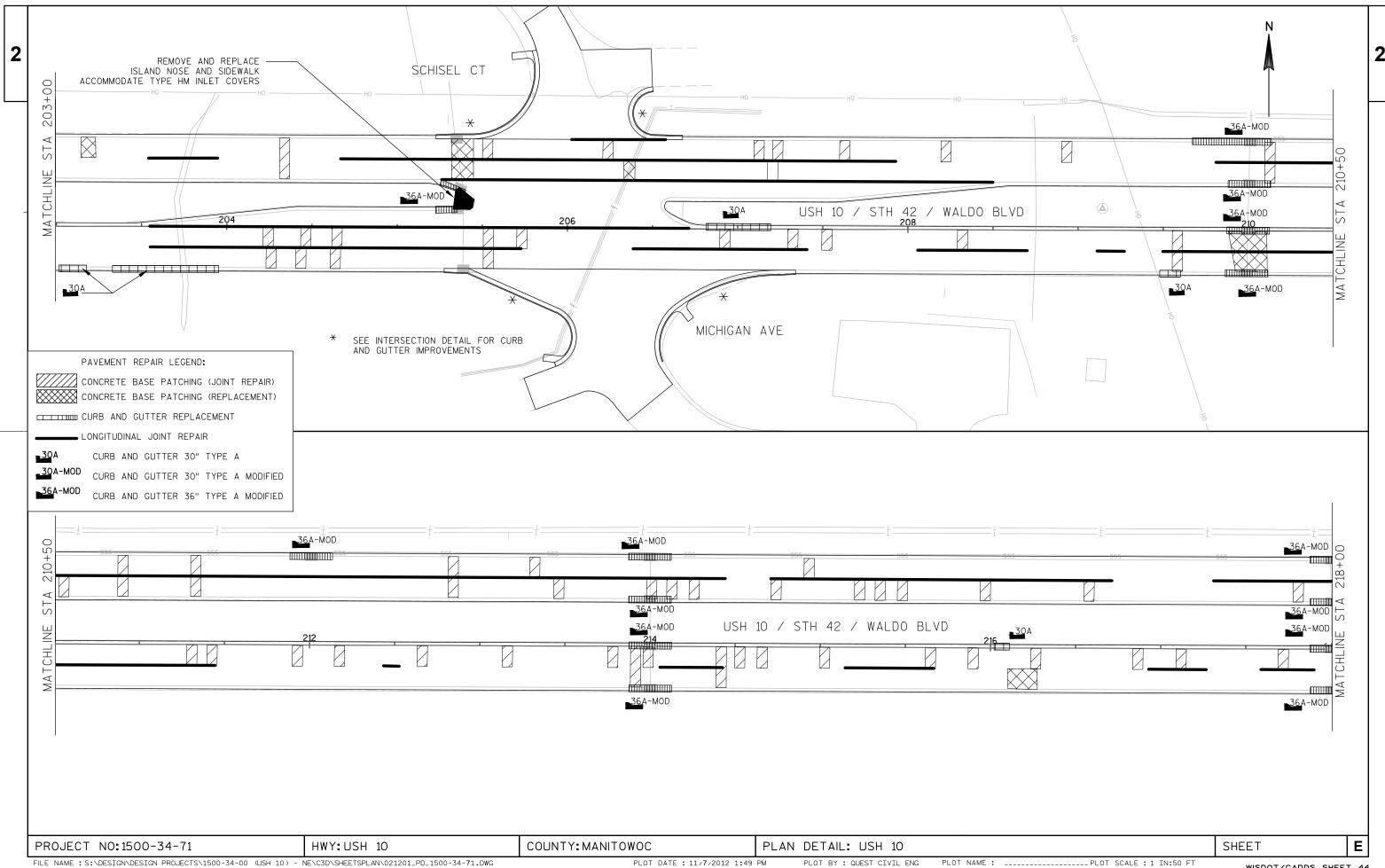
PROFILE VIEW

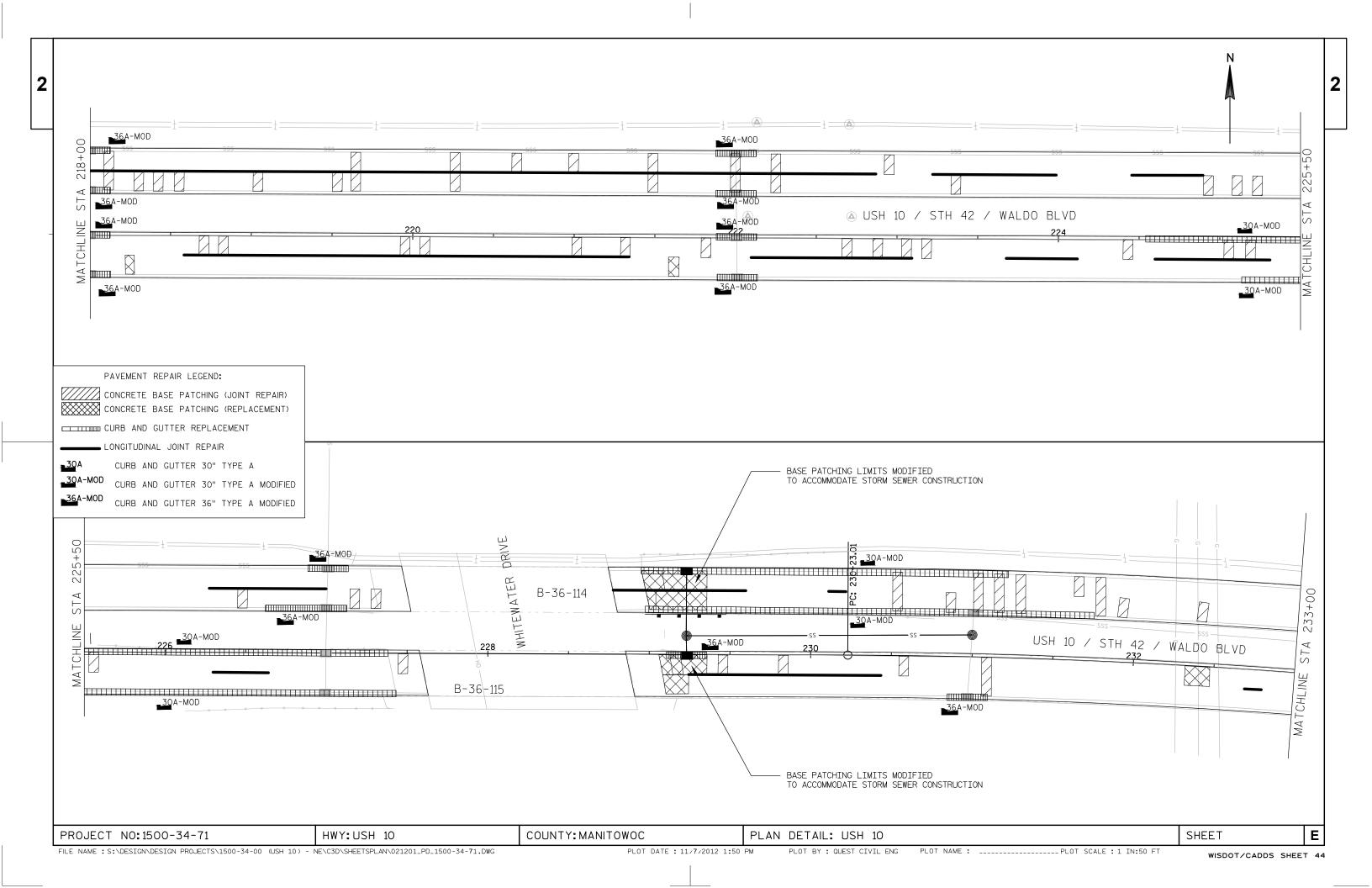
CONSTRUCTION DETAILS

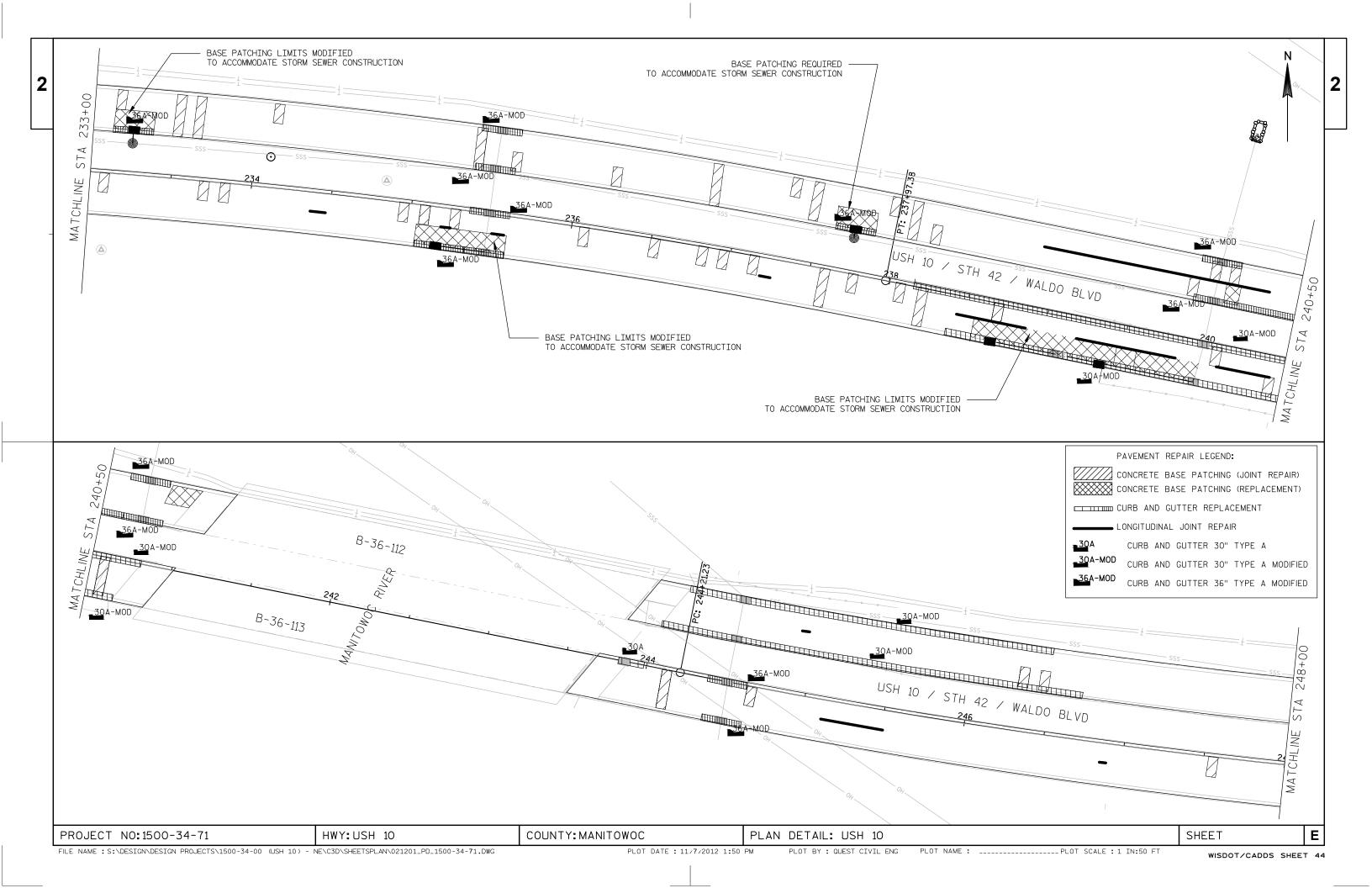
SHEET

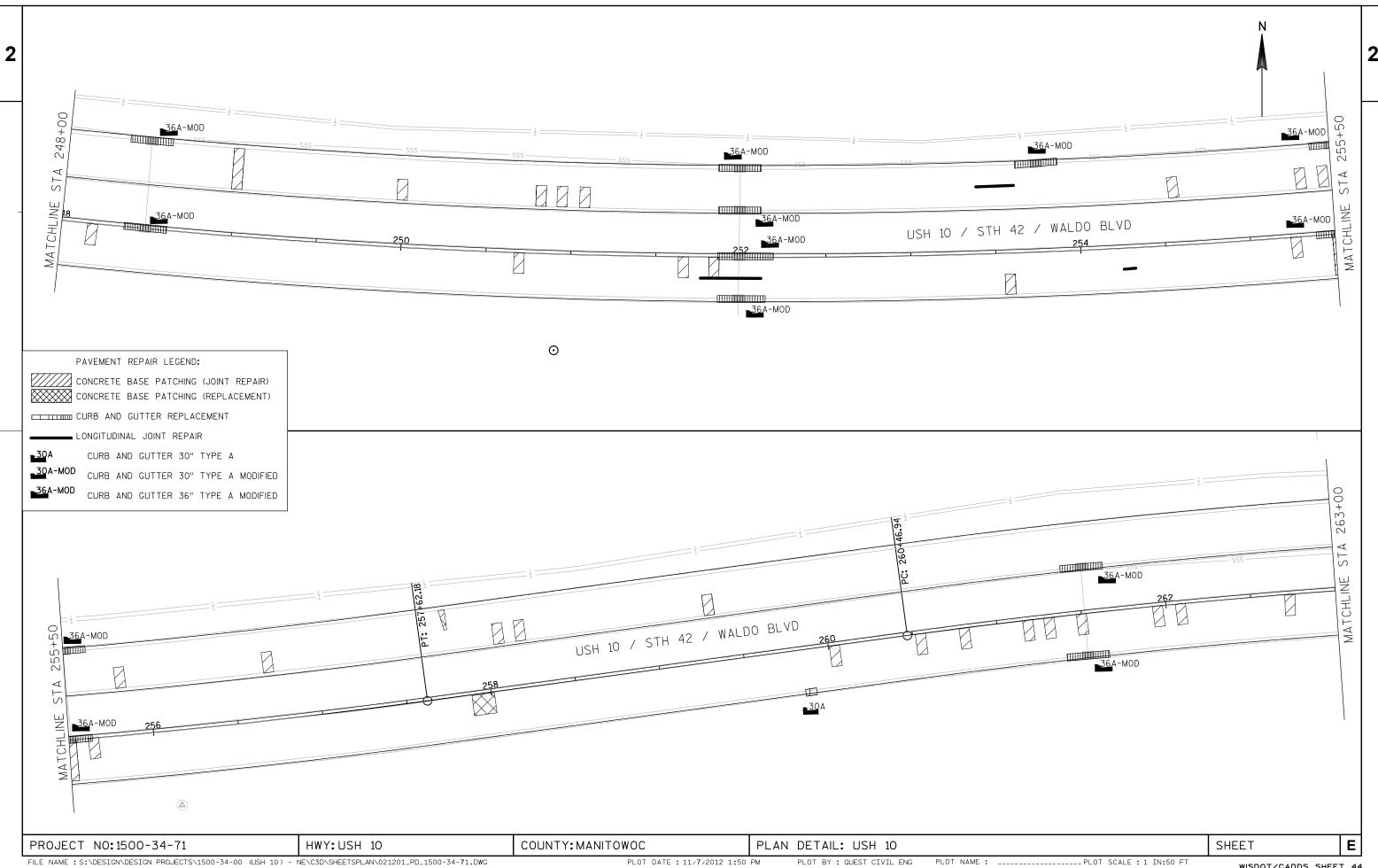


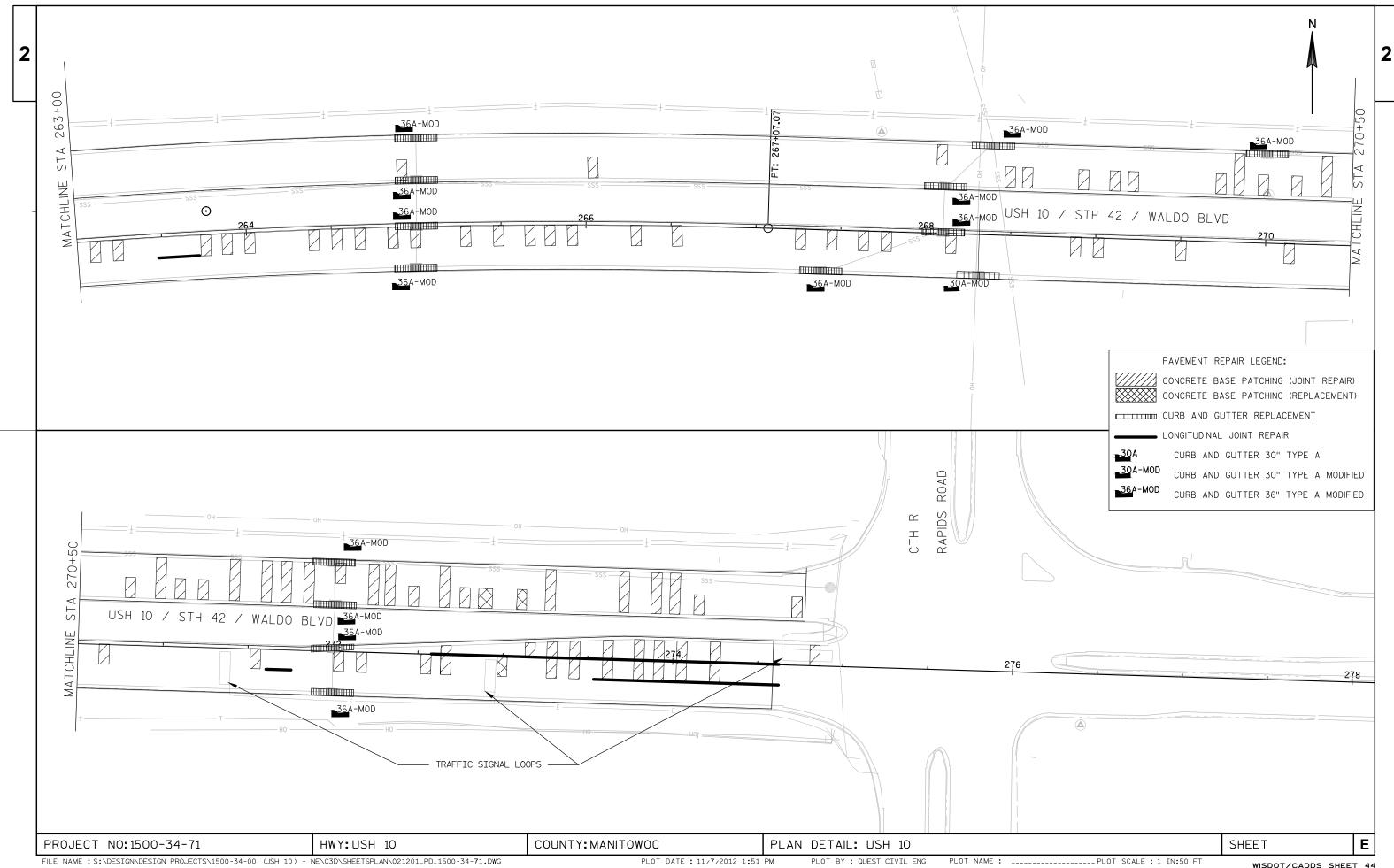


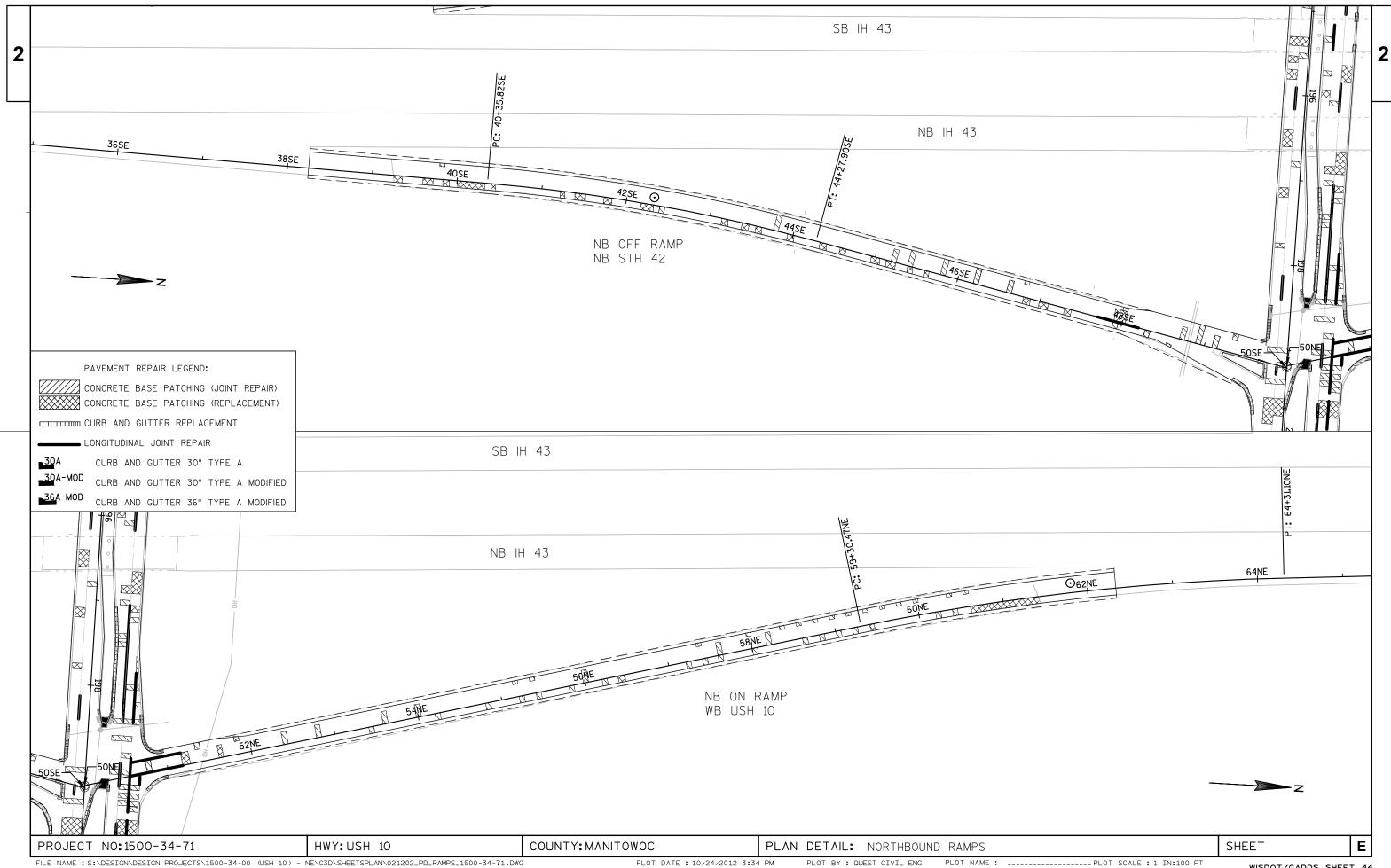


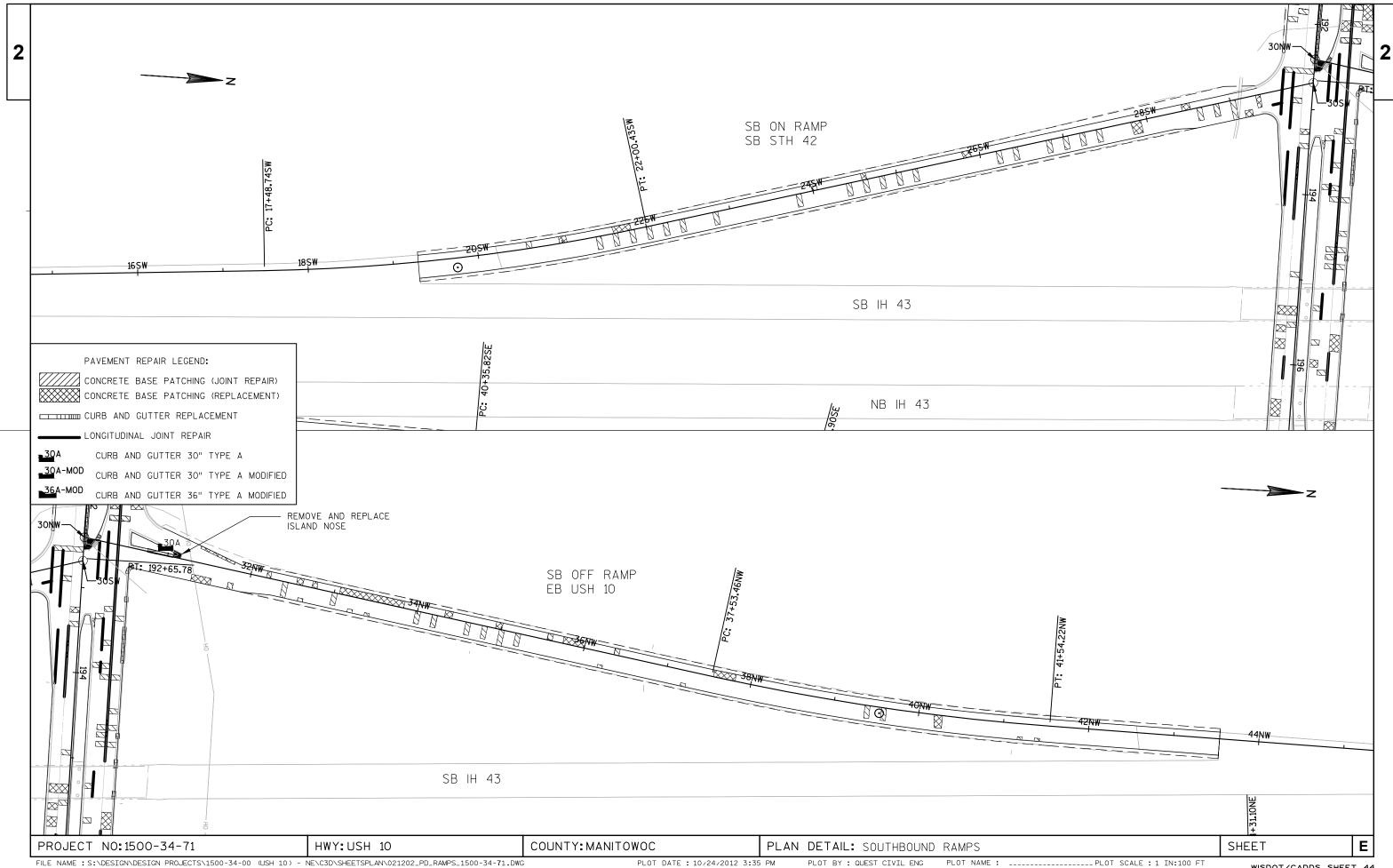


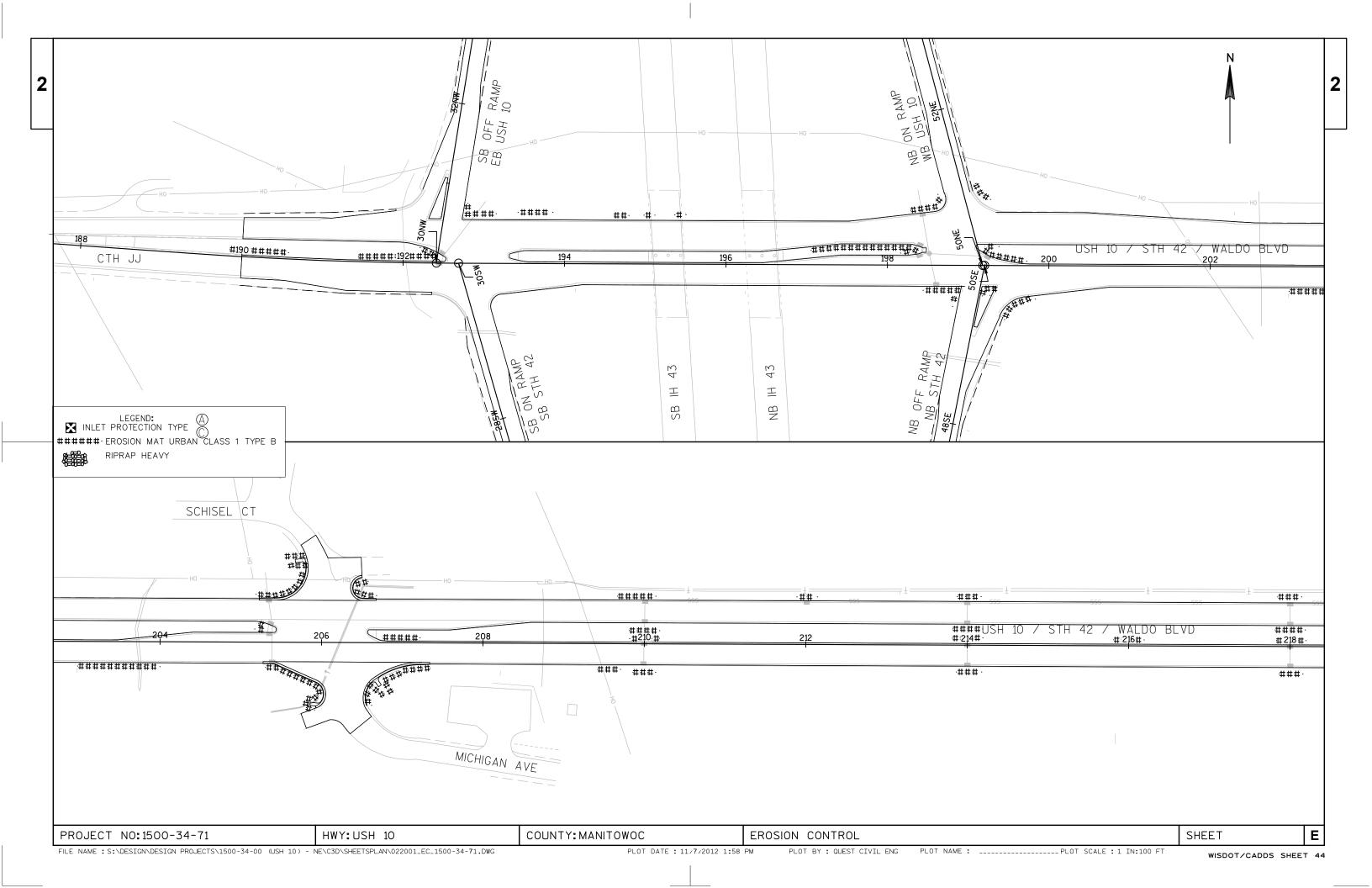


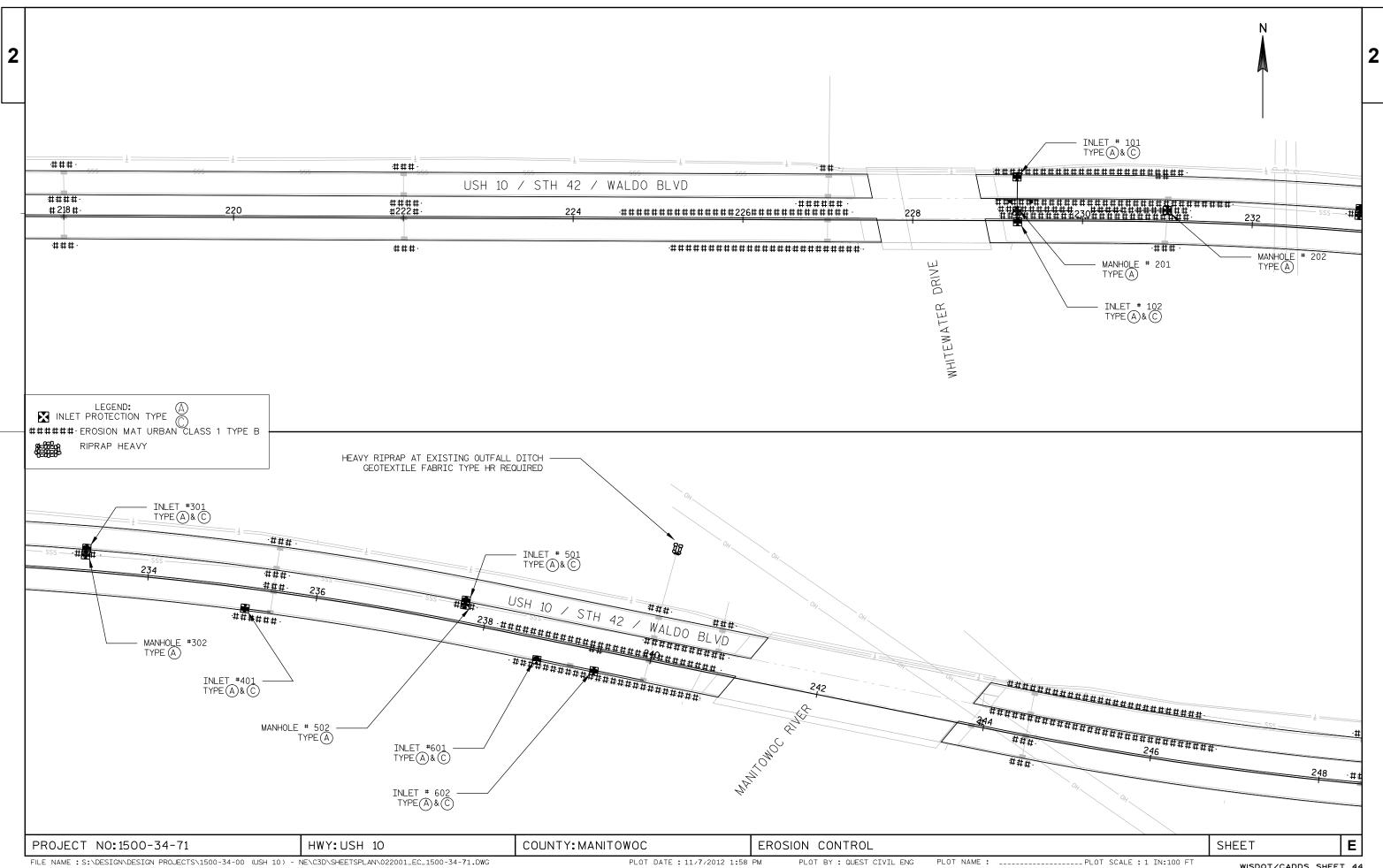


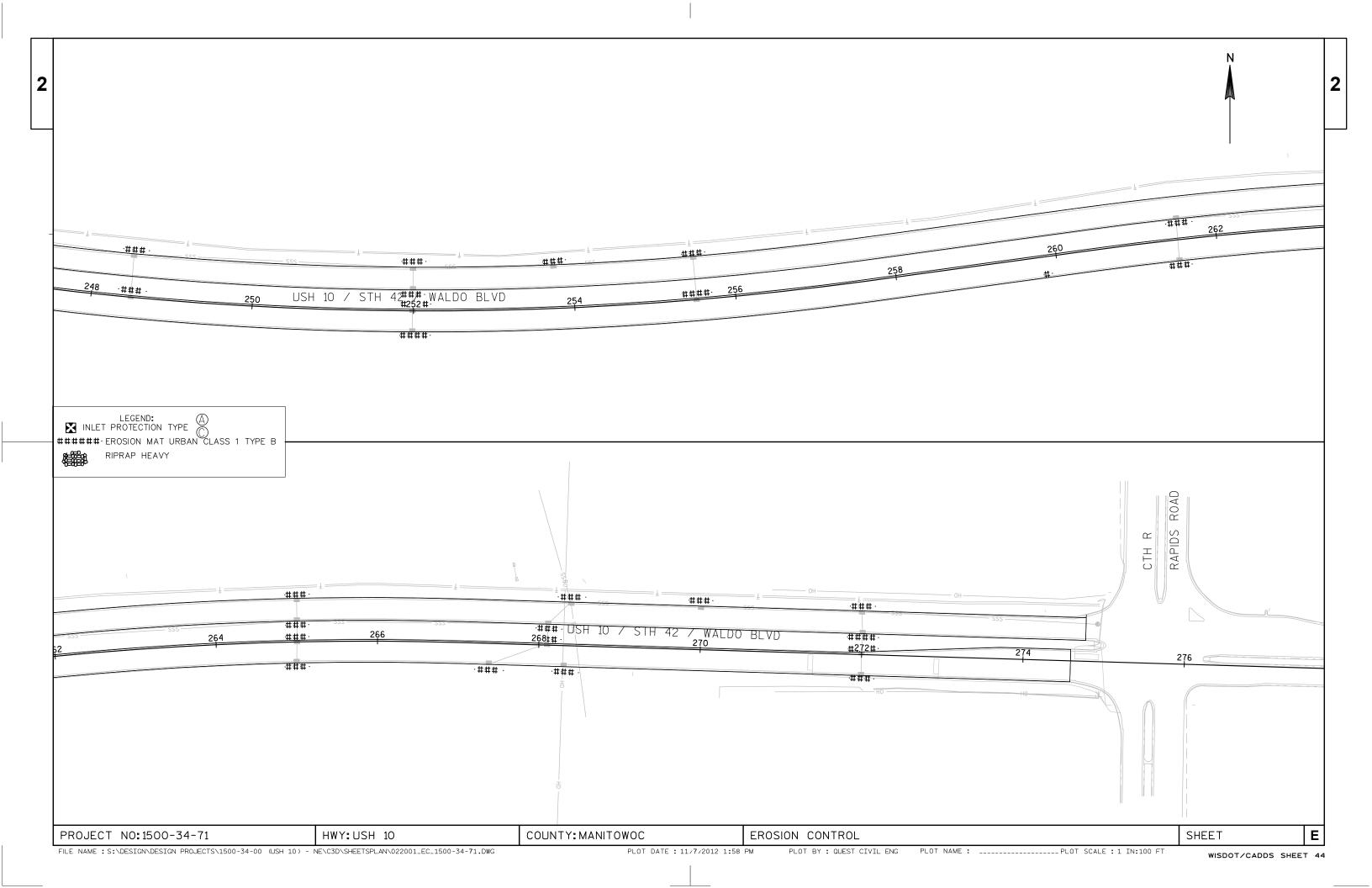


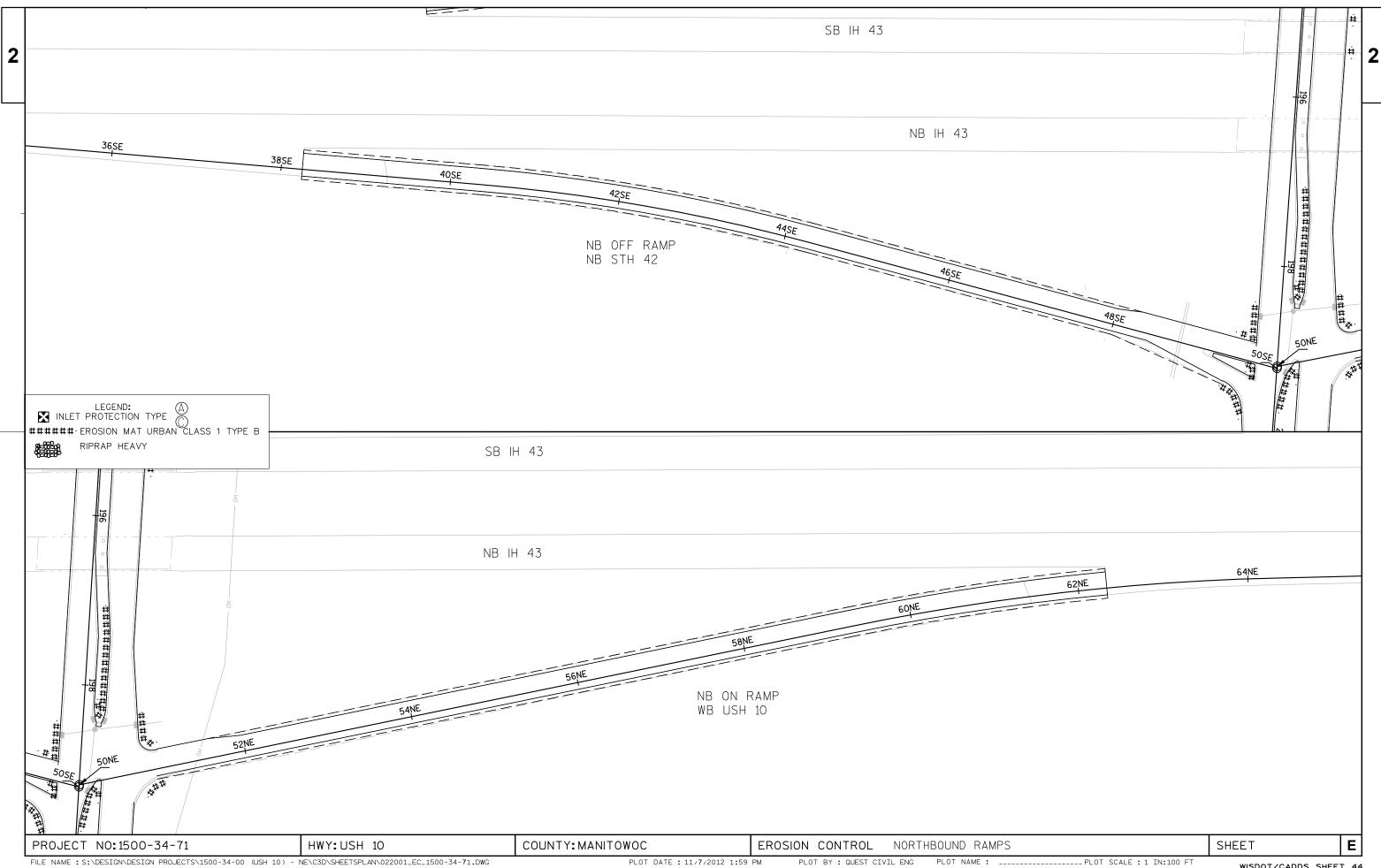


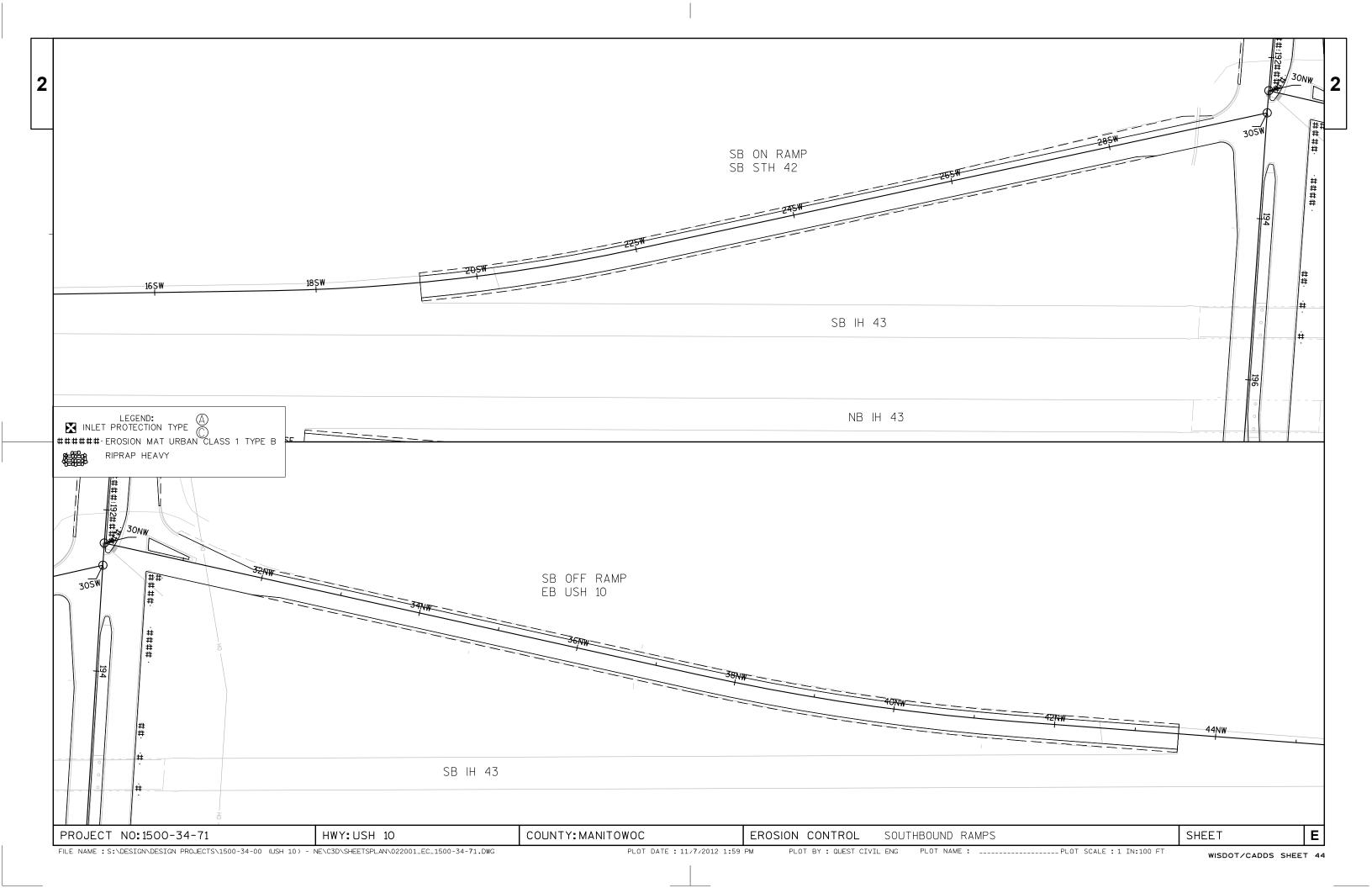


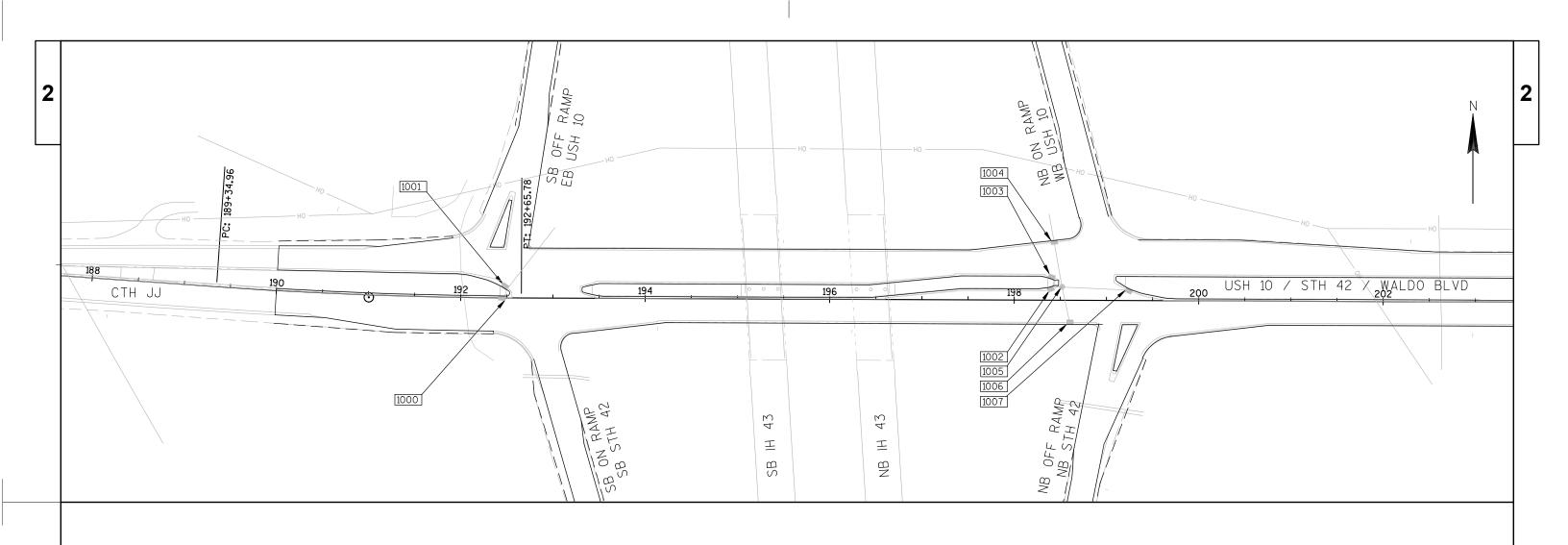






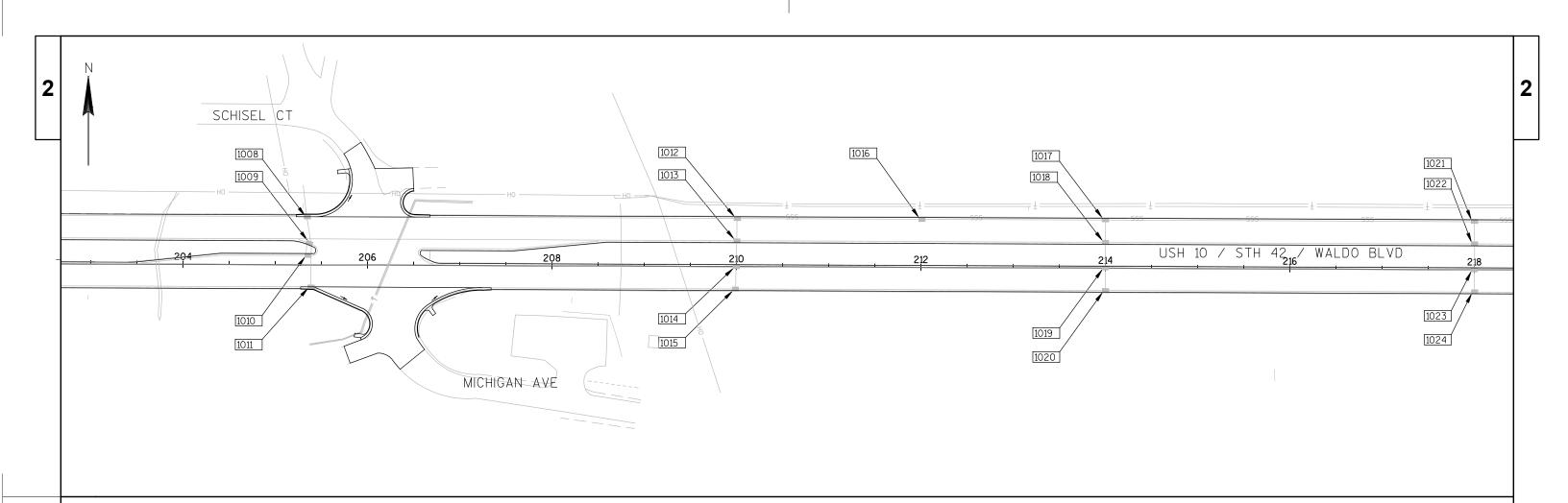






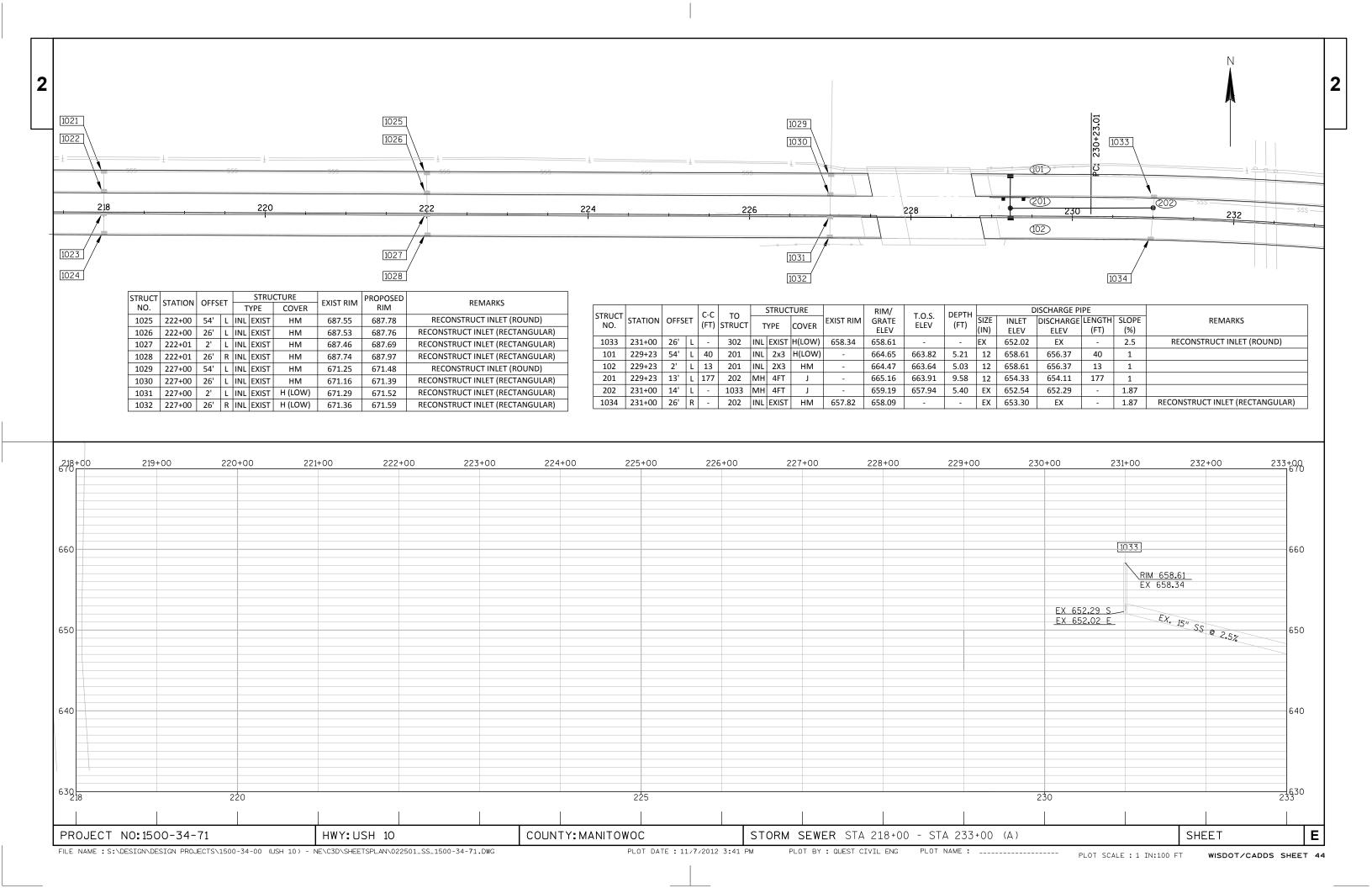
STRUCT	STATION	OFFSET		OFFSET		OEESET		STRUCTURE			EXIST RIM	PROPOSED	REMARKS
NO.	STATION	01131		Т	YPE	COVER	EVIST KIIVI	RIM	KLIVIAKKS				
1000	192+48	2'	L	INL	EXIST	HM	741.76	741.99	RECONSTRUCT INLET (RECTANGULAR)				
1001	192+50	9'	L	INL	EXIST	HM	741.56	741.79	RECONSTRUCT INLET (RECTANGULAR)				
1002	198+42	15.4'	L	INL	EXIST	HM	738.44	738.67	RECONSTRUCT INLET (RECTANGULAR)				
1003	198+43	22'	L	INL	EXIST	HM	738.65	738.88	RECONSTRUCT INLET (RECTANGULAR)				
1004	198+43	64.6'	L	INL	EXIST	HM	738.54	738.77	RECONSTRUCT INLET (RECTANGULAR)				
1005	198+52	14.3'	L	МН	EXIST	EX J	738.67	738.90	ADJUST MANHOLE COVER				
1006	198+61	26'	R	INL	EXIST	HM	738.65	738.88	RECONSTRUCT INLET (RECTANGULAR)				
1007	199+28	11.2'	L	INL	EXIST	HM	738.15	738.38	RECONSTRUCT INLET (RECTANGULAR)				

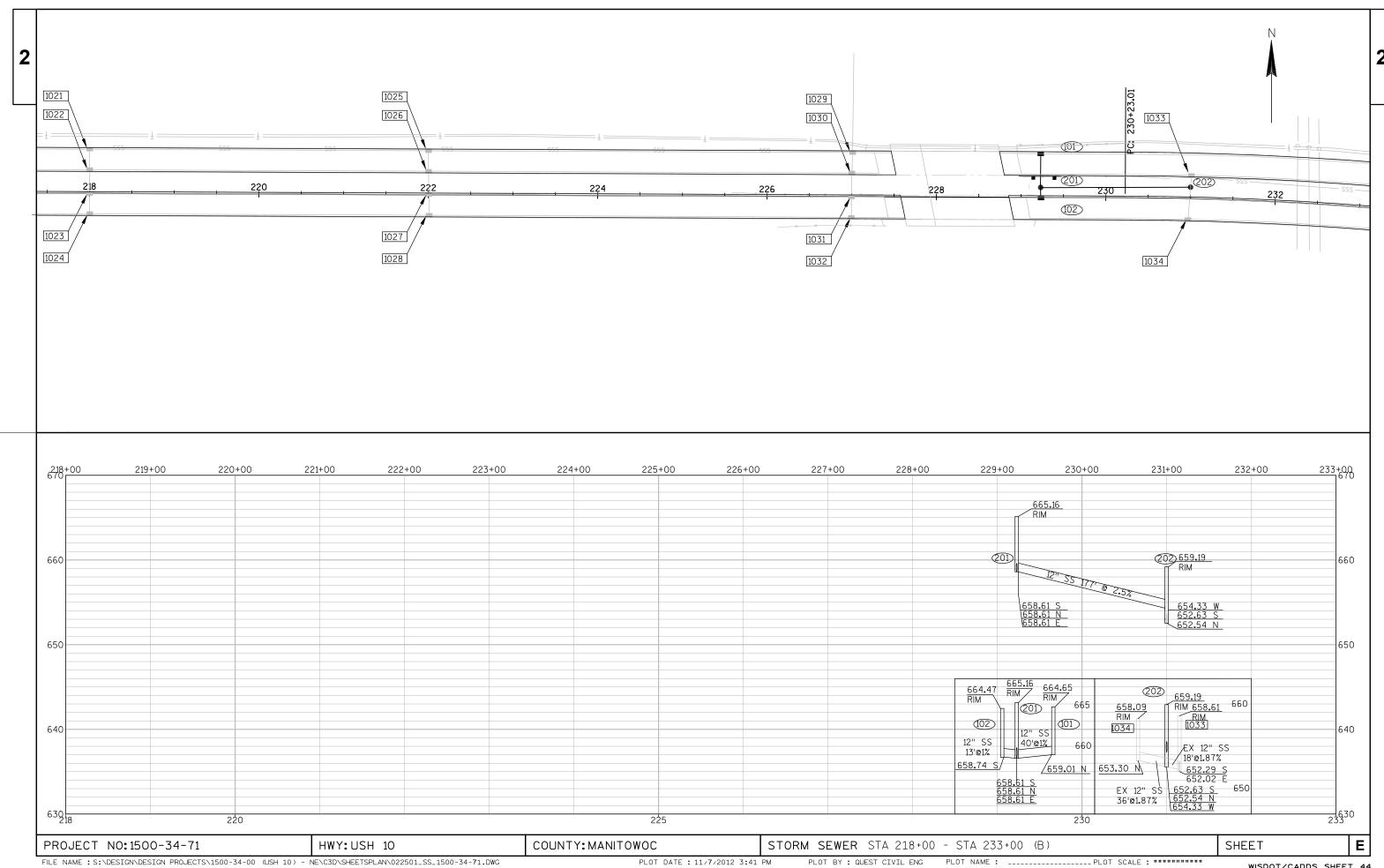
PROJECT NO:1500-34-71 HWY:USH 10 COUNTY:MANITOWOC STORM SEWER STA 190+00 - STA 203+00 SHEET **E**

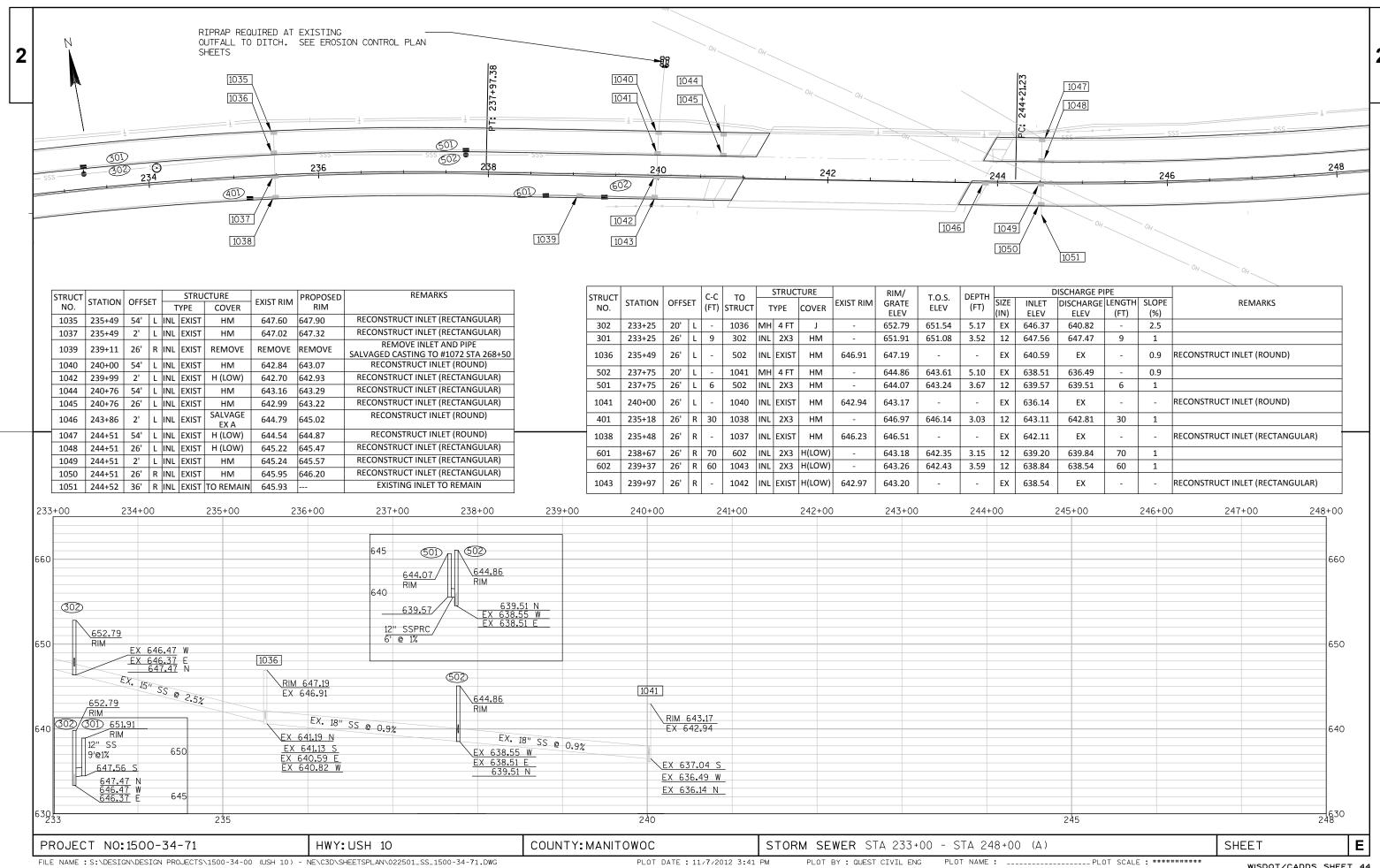


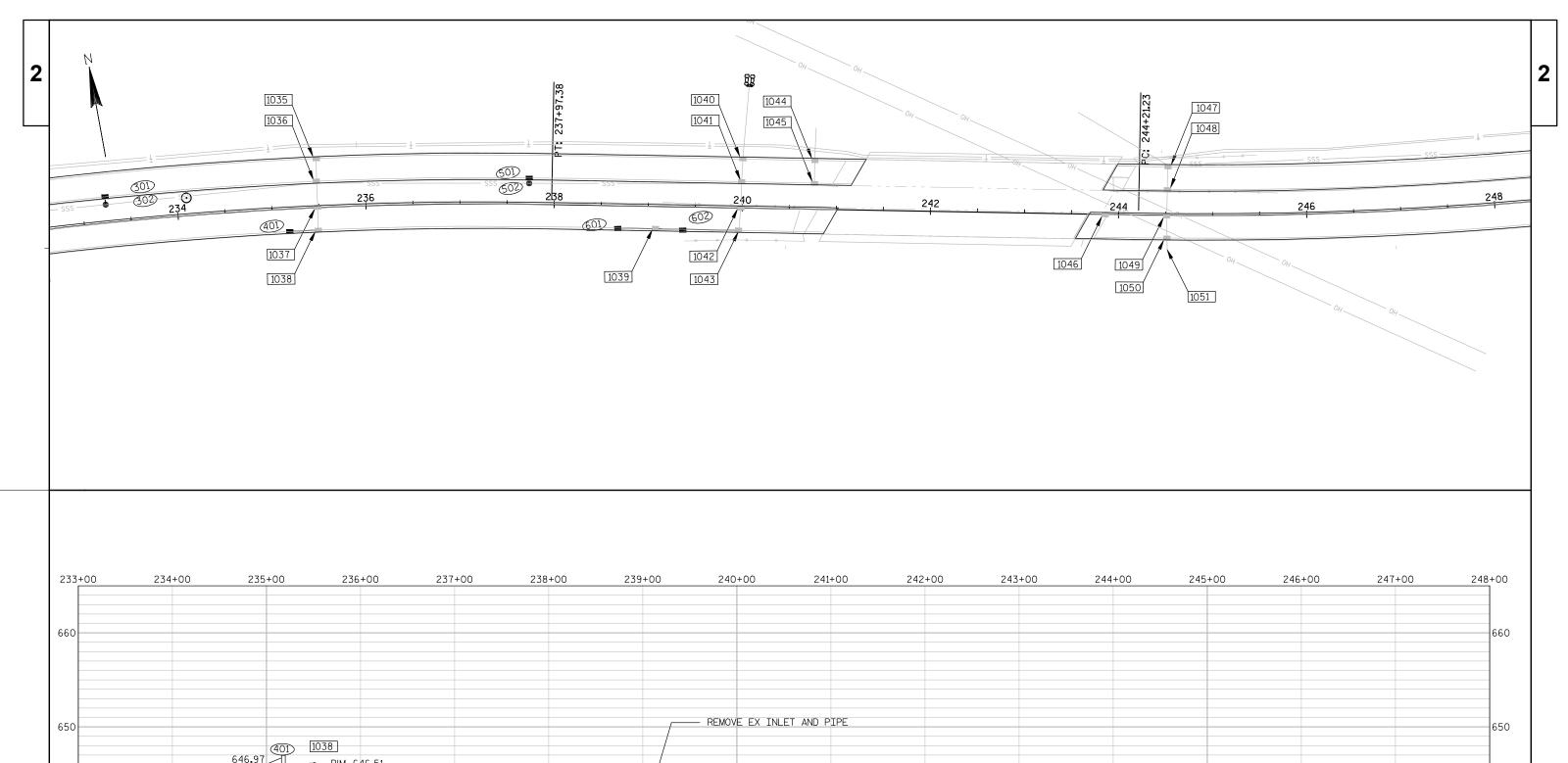
STRUCT				STR	UCTUR	E		PROPOSED	REMARKS
NO.	STATION	OFFS	ET	Т	YPE	COVER	EXIST RIM	RIM	
1008	205+34	54'	L	INL	EXIST	НМ	735.28	735.51	RECONSTRUCT INLET (RECTANGULAR)
1009	205+39	20.4'	L	INL	EXIST	НМ	735.26	735.49	RECONSTRUCT INLET (RECTANGULAR)
1010	205+39	12'	L	INL	EXIST	НМ	735.16	735.39	RECONSTRUCT INLET (RECTANGULAR)
1011	205+39	26'	R	INL	EXIST	НМ	735.42	735.65	RECONSTRUCT INLET (RECTANGULAR)
1012	210+00	54'	L	INL	EXIST	НМ	725.62	725.85	RECONSTRUCT INLET (ROUND)
1013	210+00	26'	L	INL	EXIST	НМ	725.66	725.89	RECONSTRUCT INLET (RECTANGULAR)
1014	210+00	2'	L	INL	EXIST	НМ	725.61	725.84	RECONSTRUCT INLET (RECTANGULAR)
1015	210+00	26'	R	INL	EXIST	НМ	725.89	726.12	RECONSTRUCT INLET (RECTANGULAR)
1016	212+00	54'	L	INL	EXIST	НМ	719.39	719.62	RECONSTRUCT INLET (ROUND)
1017	214+00	54'	L	INL	EXIST	НМ	713.12	713.35	RECONSTRUCT INLET (ROUND)
1018	214+00	26'	L	INL	EXIST	НМ	713.13	713.36	RECONSTRUCT INLET (RECTANGULAR)
1019	214+00	2'	L	INL	EXIST	НМ	713.16	713.39	RECONSTRUCT INLET (RECTANGULAR)
1020	214+00	26'	R	INL	EXIST	НМ	713.24	713.47	RECONSTRUCT INLET (RECTANGULAR)
1021	218+00	54'	L	INL	EXIST	НМ	700.37	700.60	RECONSTRUCT INLET (ROUND)
1022	218+00	26'	L	INL	EXIST	НМ	700.29	700.52	RECONSTRUCT INLET (RECTANGULAR)
1023	218+00	2'	L	INL	EXIST	НМ	700.34	700.57	RECONSTRUCT INLET (RECTANGULAR)
1024	218+00	26'	R	INL	EXIST	НМ	700.49	700.72	RECONSTRUCT INLET (RECTANGULAR)

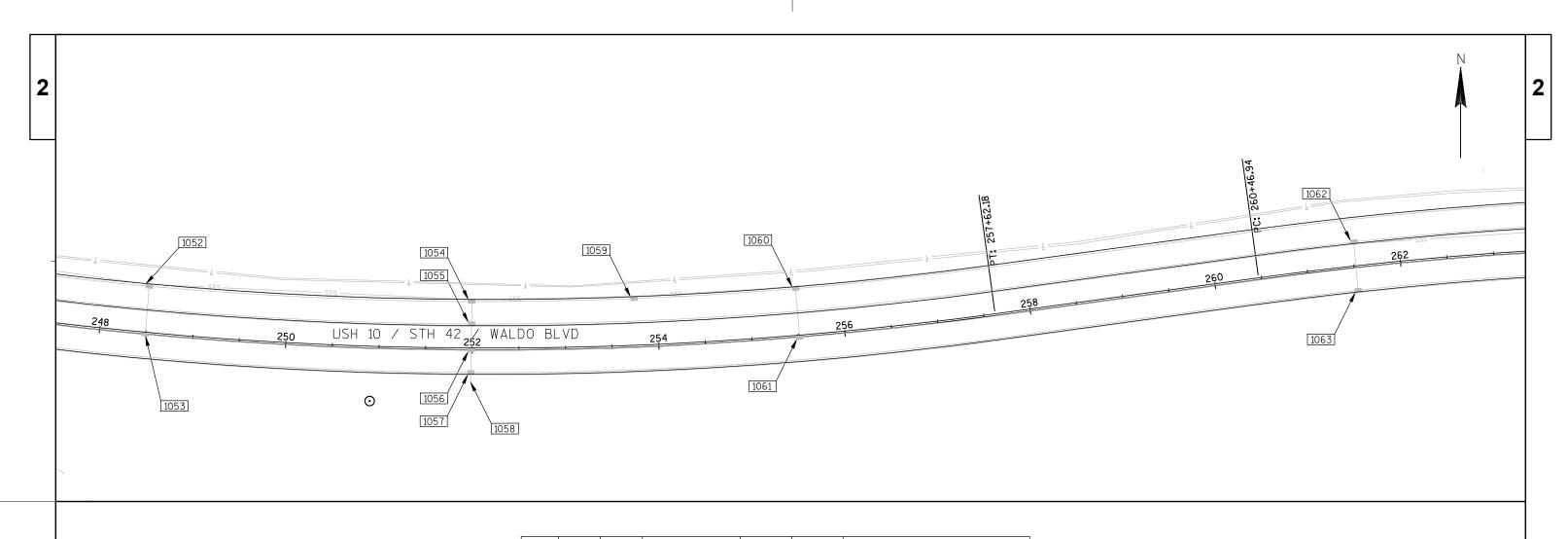
PROJECT NO:1500-34-71 HWY:USH 10 COUNTY:MANITOWOC STORM SEWER STA 203+00 - STA 218+00 SHEET E





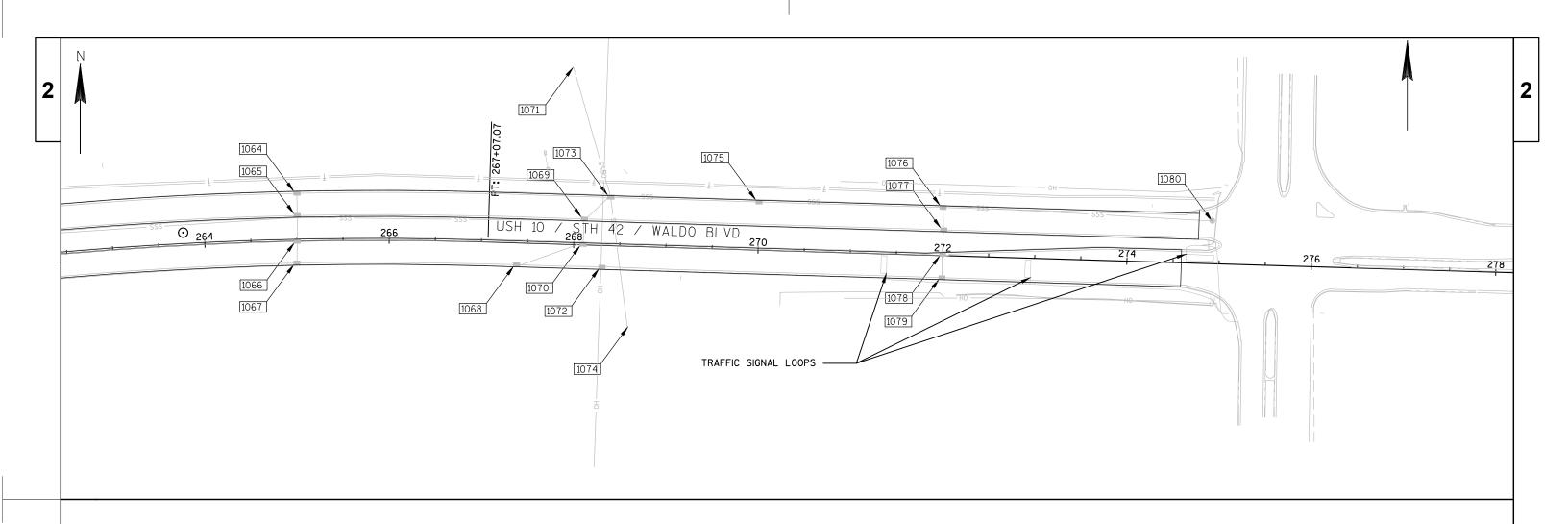






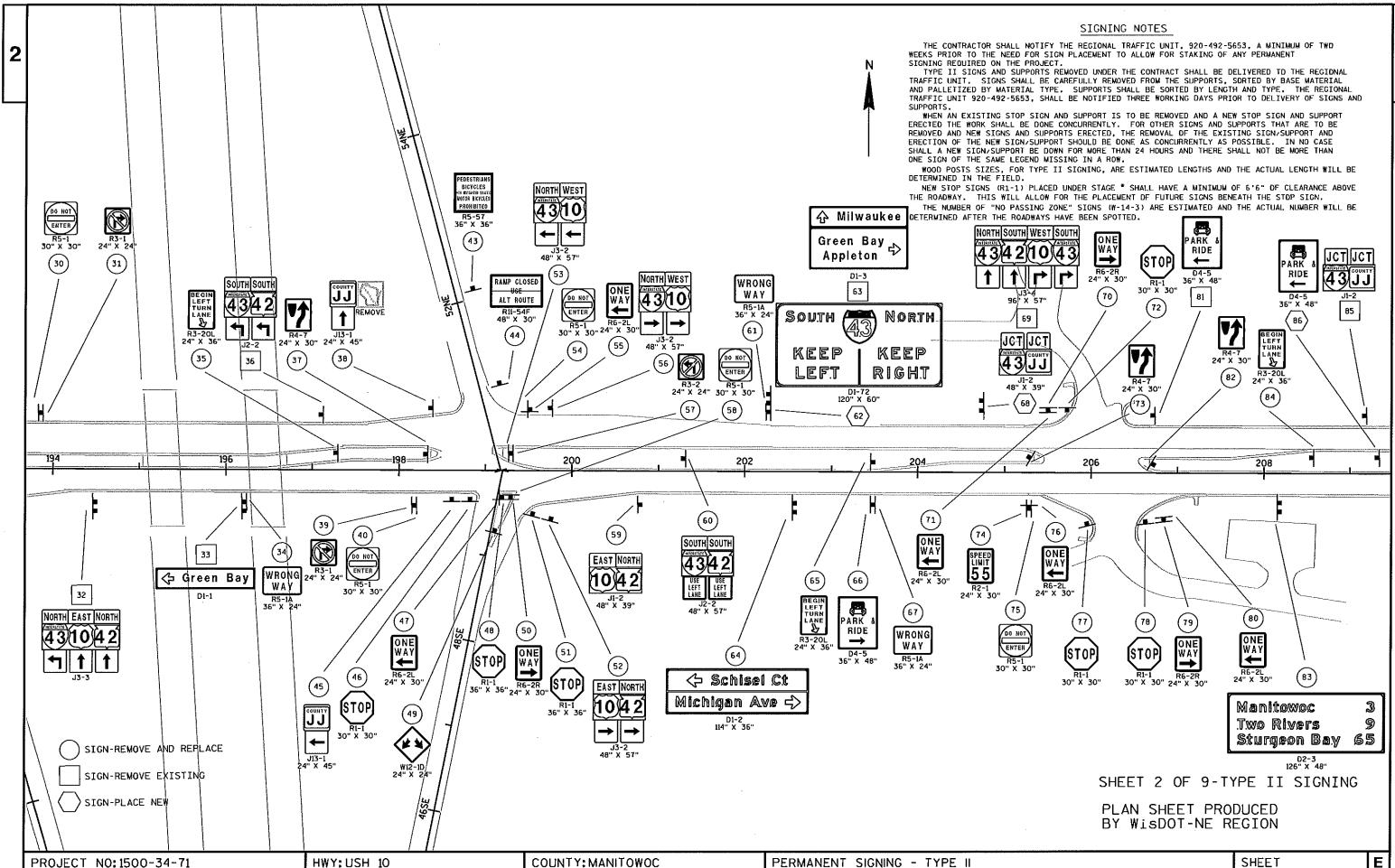
STRUCT	STATION	OFFC	OFFSET		STRU	CTURE	EXIST RIM	PROPOSED	REMARKS	
NO.	STATION	UFF3		Т	YPE	COVER	OVER EXISTRIM RIM		NEIVIARKS	
1052	248+49	54'	L	INL	EXIST	HM	647.62	647.90	RECONSTRUCT INLET ROUND	
1053	248+49	2'	L	INL	EXIST	HM	648.47	647.75	RECONSTRUCT INLET (RECTANGULAR)	
1054	252+00	54'	L	INL	EXIST	HM	652.18	652.46	RECONSTRUCT INLET (ROUND)	
1055	252+00	26'	L	INL	EXIST	HM	653.00	653.30	RECONSTRUCT INLET (RECTANGULAR)	
1056	252+00	2'	L	INL	EXIST	HM	652.81	652.07	RECONSTRUCT INLET (RECTANGULAR)	
1057	252+00	26'	R	INL	EXIST	HM	653.79	653.09	RECONSTRUCT INLET (RECTANGULAR)	
1058	251+98	34'	R	INL	EXIST	TO REMAIN	653.79		EXISTING INLET TO REMAIN	
1059	253+75	54'	L	INL	EXIST	HM	654.50	654.78	RECONSTRUCT INLET (ROUND)	
1060	255+51	54'	L	INL	EXIST	HM	656.86	657.14	RECONSTRUCT INLET (ROUND)	
1061	255+51	2'	L	INL	EXIST	HM	657.51	657.79	RECONSTRUCT INLET (RECTANGULAR)	
1062	261+53	26'	L	INL	EXIST	HM	659.63	659.91	RECONSTRUCT INLET (ROUND)	
1063	261+53	26'	R	INL	EXIST	НМ	659.06	659.34	RECONSTRUCT INLET (RECTANGULAR)	

PROJECT NO: 1500-34-71 COUNTY: MANITOWOC HWY: USH 10 SHEET STORM SEWER STA 248+00 - STA 263+00 PLOT BY: QUEST CIVIL ENG PLOT NAME: _____PLOT SCALE: 1 IN:100 FT

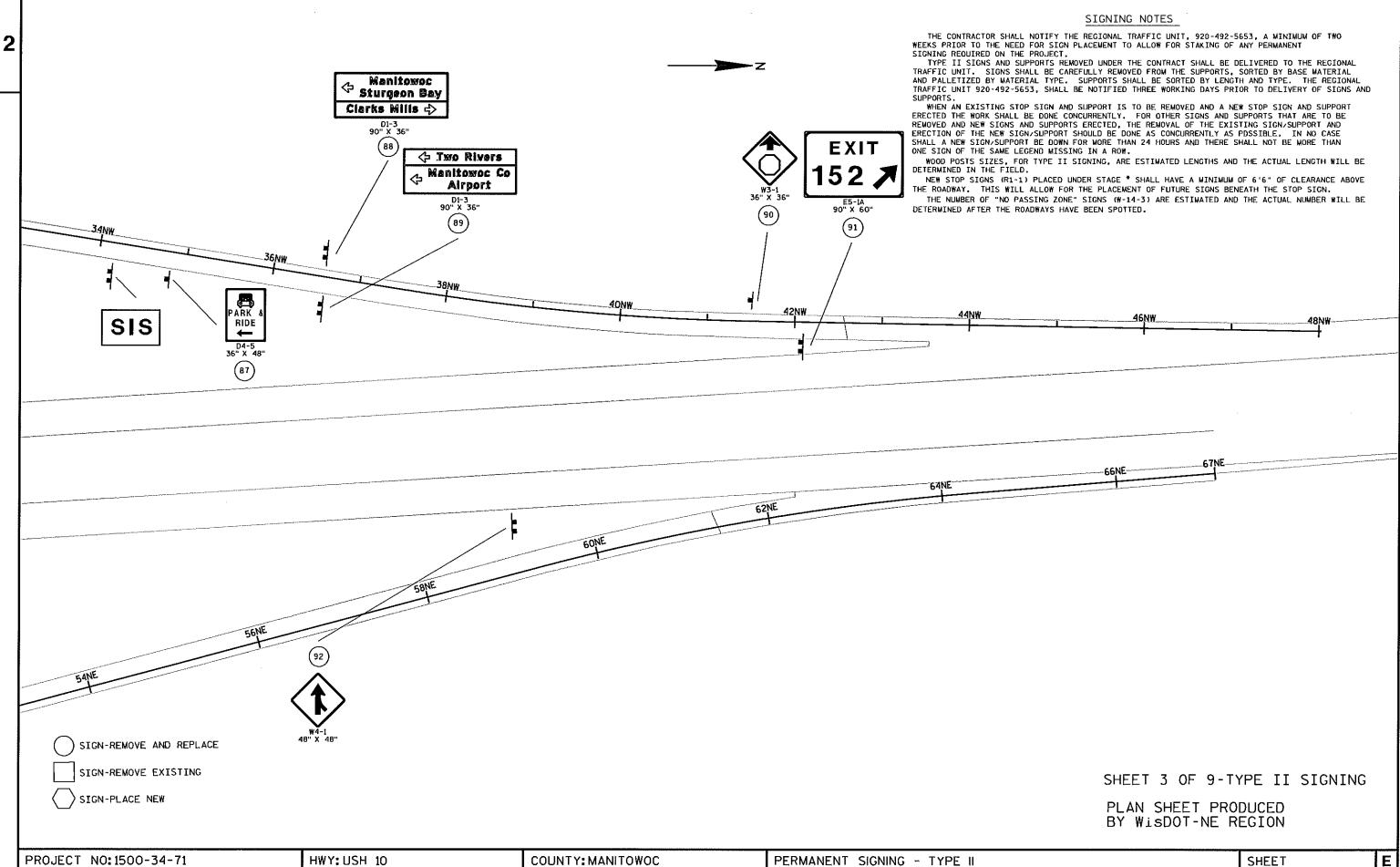


STRUCT	STATION	OFFC	STRU		CTURE	EVICT DIA	PROPOSED	DEMADIC	
NO.	STATION	OFFSI	ΕI	Т	YPE	COVER	EXIST RIM	RIM	REMARKS
1064	265+00	54'	L	INL	EXIST	HM	656.84	657.14	RECONSTRUCT INLET (RECTANGULAR)
1065	265+00	26'	L	INL	EXIST	НМ	656.16	656.44	RECONSTRUCT INLET (ROUND)
1066	265+00	2'	L	INL	EXIST	НМ	656.15	656.45	RECONSTRUCT INLET (RECTANGULAR)
1067	265+00	26'	R	INL	EXIST	HM	655.59	655.87	RECONSTRUCT INLET (RECTANGULAR)
1068	267+38	26'	R	INL	EXIST	НМ	653.61	653.84	RECONSTRUCT INLET (RECTANGULAR)
1069	268+10	26'	L	INL	EXIST	НМ	653.38	653.61	RECONSTRUCT INLET (ROUND)
1070	268+10	2'	L	INL	EXIST	HM	653.43	653.72	RECONSTRUCT INLET (RECTANGULAR)
1071	267+94	191.3'	L	INL	EXIST	TO REMAIN	653.22		EXISTING INLET TO REMAIN
1072	268+31	26'	R	INL	EXIST	SALVAGE FROM 1039	653.47	653.70	RECONSTRUCT INLET (ROUND)
1073	268+38	54'	L	INL	EXIST	НМ	653.44	653.71	RECONSTRUCT INLET (ROUND)
1074	268+61	87.6'	R	INL	EXIST	TO REMAIN	625.83		EXISTING INLET TO REMAIN
1075	270+00	54'	L	INL	EXIST	MH	653.86	654.09	RECONSTRUCT INLET (ROUND)
1076	272+00	54'	L	INL	EXIST	МН	655.05	655.28	RECONSTRUCT INLET (ROUND)
1077	272+00	26'	L	INL	EXIST	НМ	654.97	655.20	RECONSTRUCT INLET (RECTANGULAR)
1078	272+00	3'	L	INL	EXIST	НМ	654.94	655.17	RECONSTRUCT INLET (RECTANGULAR)
1079	272+00	26'	R	INL	EXIST	НМ	654.04	655.27	RECONSTRUCT INLET (RECTANGULAR)
1080	274+91	46.2'	L	МН	EXIST	TO REMAIN	657.38		EXISTING MANHOLE TO REMAIN

COUNTY: MANITOWOC PROJECT NO:1500-34-71 HWY: USH 10 SHEET STORM SEWER STA 263+00 - STA 275+00 PLOT BY : QUEST CIVIL ENG PLOT NAME : _____PLOT SCALE : #########



PLOT NAME:



PLOT NAME :

PROJECT NO: 1500-34-71

HWY: USH 10

COUNTY: MANITOWOC

PERMANENT SIGNING - TYPE II

SIGNING NOTES

THE CONTRACTOR SHALL NOTIFY THE RECIONAL TRAFFIC UNIT, 920-492-5653, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

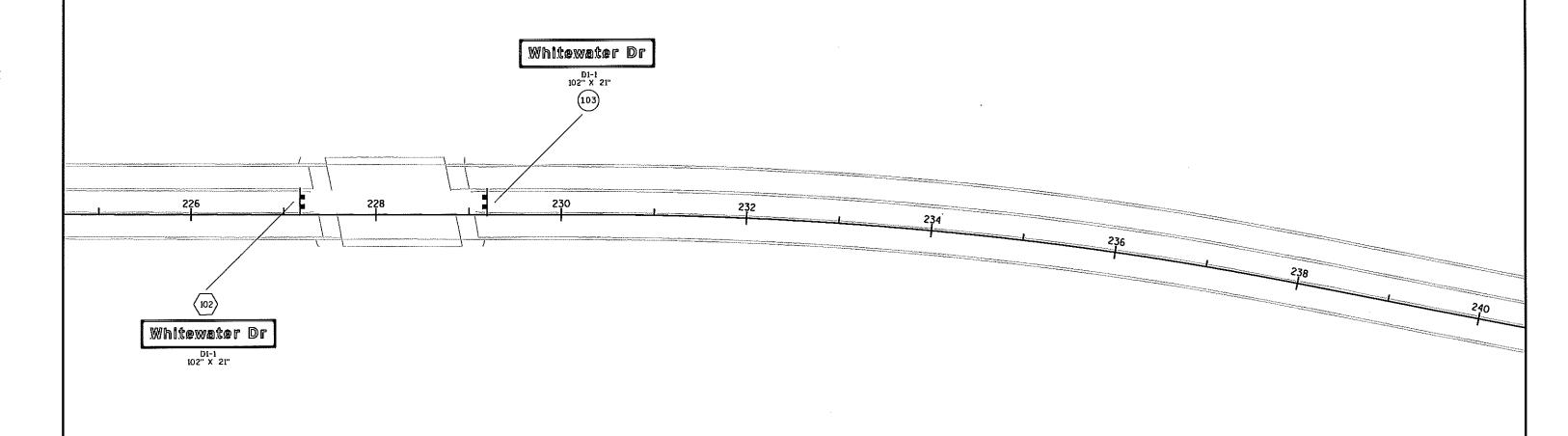
TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED. THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE

NEW STOP SIGNS (R1-1) PLACED UNDER STAGE * SHALL HAVE A MINIMUM OF 6'5" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.



) SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SHEET 6 OF 9-TYPE II SIGNING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-34-71

HWY: USH 10

COUNTY: MANITOWOC

PERMANENT SIGNING - TYPE II

PLOT BY : dotj1f

SHEET

SIGNING NOTES THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC UNIT, 920-492-5553, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT. TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND CHAPBORTS. SUPPORTS. WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN. SUPPORT AND ERECTION OF THE NEW SIGN. SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN. SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW. WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD. NEW STOP SIGNS (R1-1) PLACEO UNDER STAGE * SHALL HAVE A MINIMUM OF 6'6" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN. THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED. Manitowoc River 13-1 76" X 36" 105 (104) Manitowoc River 13-1 78" X 36" (106) Manitowoc POPULATION 33,734 12-3 66" X 24") SIGN-REMOVE AND REPLACE SHEET 7 OF 9-TYPE II SIGNING SIGN-REMOVE EXISTING SIGN-PLACE NEW PLAN SHEET PRODUCED BY WisDOT-NE REGION

HWY: USH 10

PROJECT NO: 1500-34-71

COUNTY: MANITOWOC

PERMANENT SIGNING - TYPE II

PLOT NAME:

SHEET

SIGNING NOTES THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC UNIT, 920-492-5653, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT. TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS SUPPORTS. WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND WISSING IN A ROW. WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE OETERMINED IN THE FIELD. NEW STOP SIGNS (R1-1) PLACEO UNDER STAGE * SHALL HAVE A MINIMUM OF 6'5" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN. THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED. CITY OF MANITOWOC OWNED LEAVE AS IS (115) NO **ENGINE** ⟨→ Two Rivers BRAKING WITEIN CITY LIMITS Manitowoc Co Airport R10-64 30" X 36') SIGN-REMOVE AND REPLACE SIGN-REMOVE EXISTING SHEET 8 OF 9-TYPE II SIGNING SIGN-PLACE NEW PLAN SHEET PRODUCED BY WisDOT-NE REGION

HWY: USH 10

PROJECT NO: 1500-34-71

COUNTY: MANITOWOC

PLOT NAME :

PERMANENT SIGNING - TYPE II

SHEET

SIGNING NOTES

THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC UNIT, 920-492-5653, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

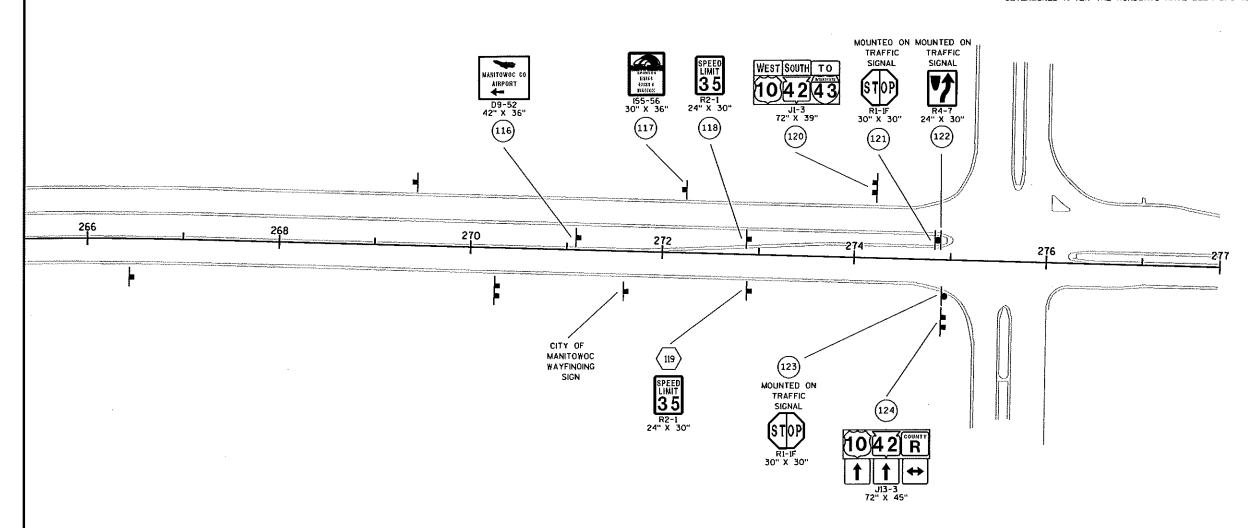
TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

NEW STOP SIGNS (R1-1) PLACEO UNDER STAGE * SHALL HAVE A MINIMUM OF 6'6" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE OETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.



SHEET 9 OF 9-TYPE II SIGNING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-34-71

SIGN-PLACE NEW

) SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

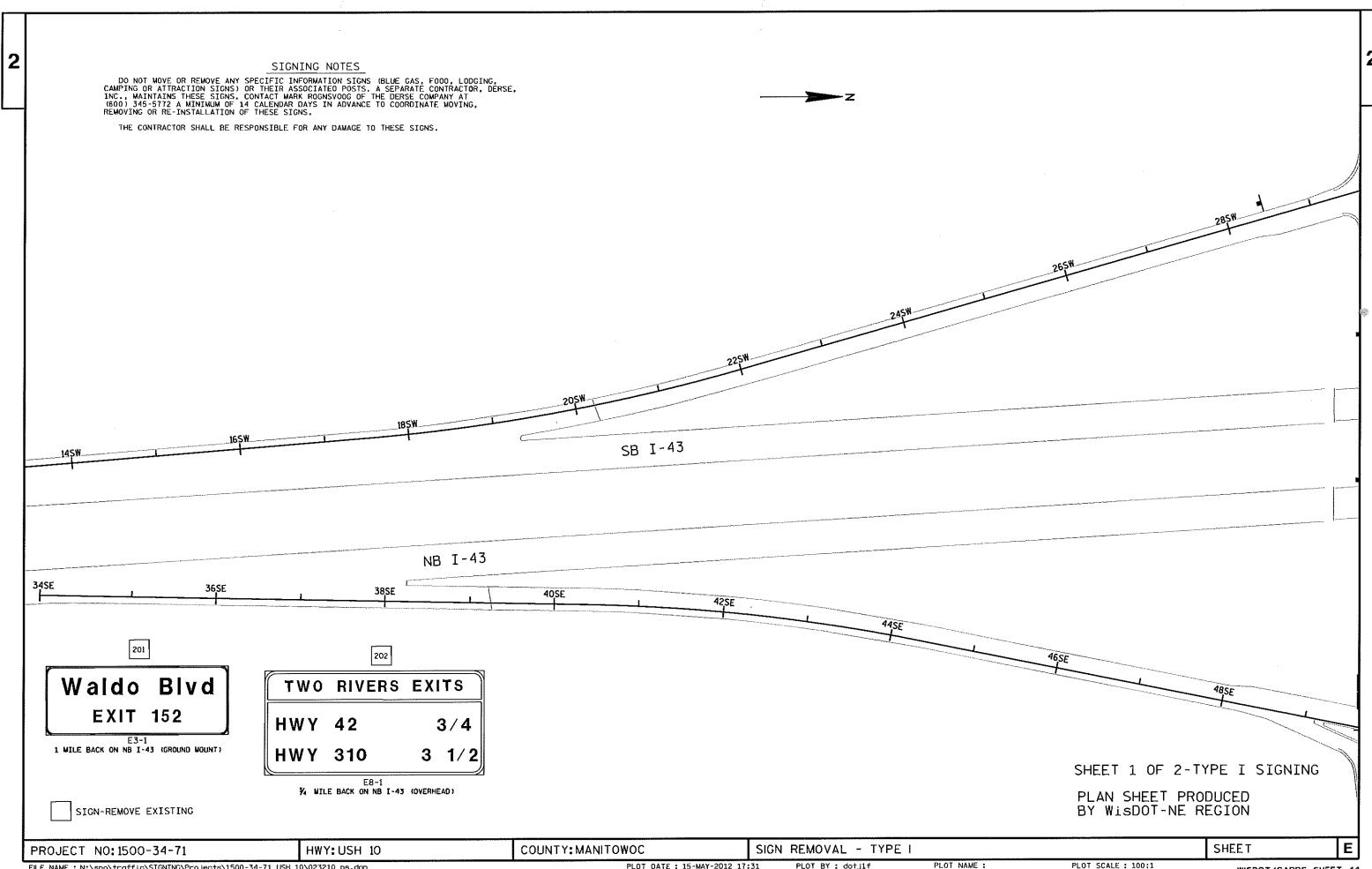
HWY: USH 10

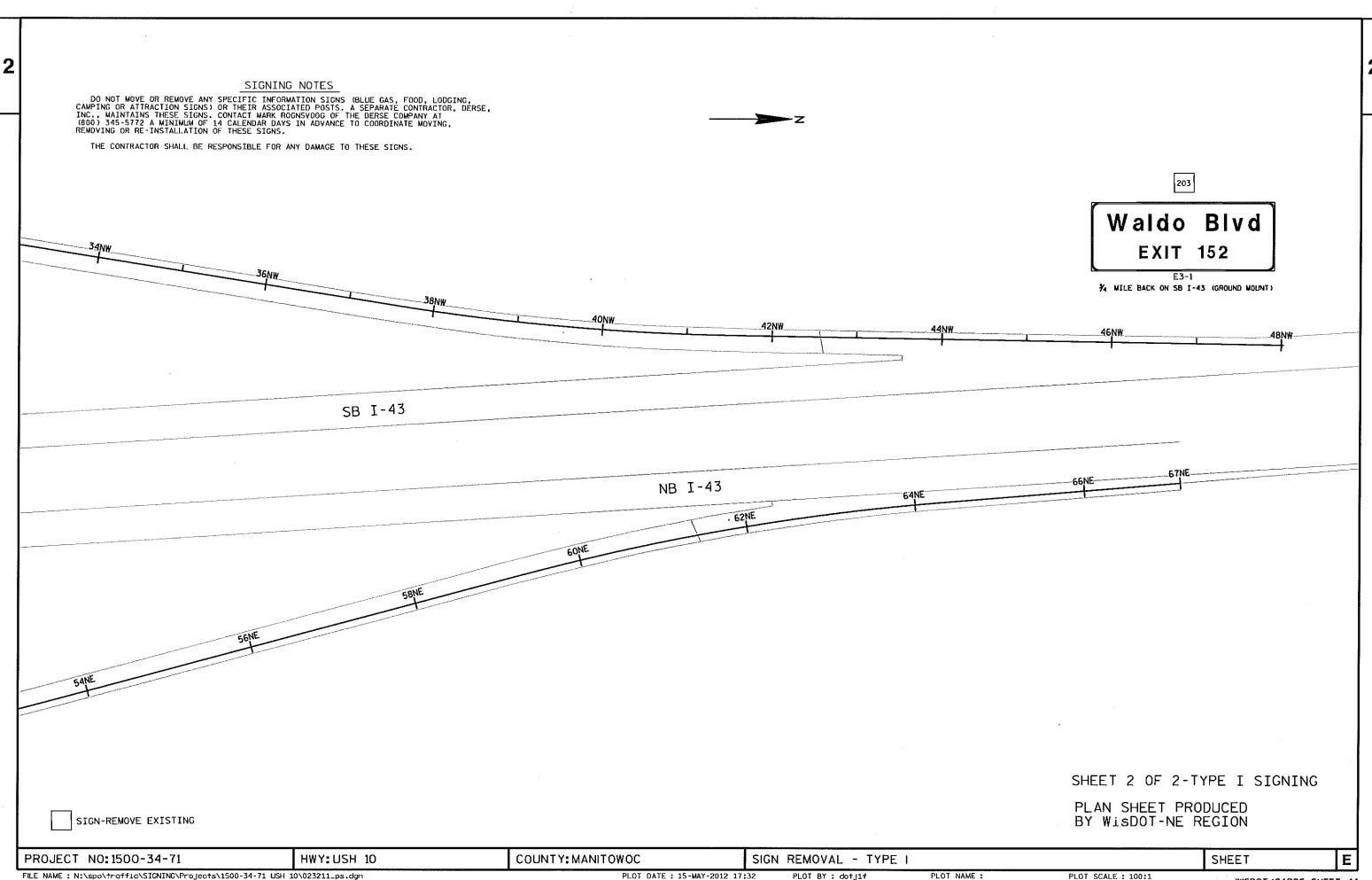
COUNTY: MANITOWOC

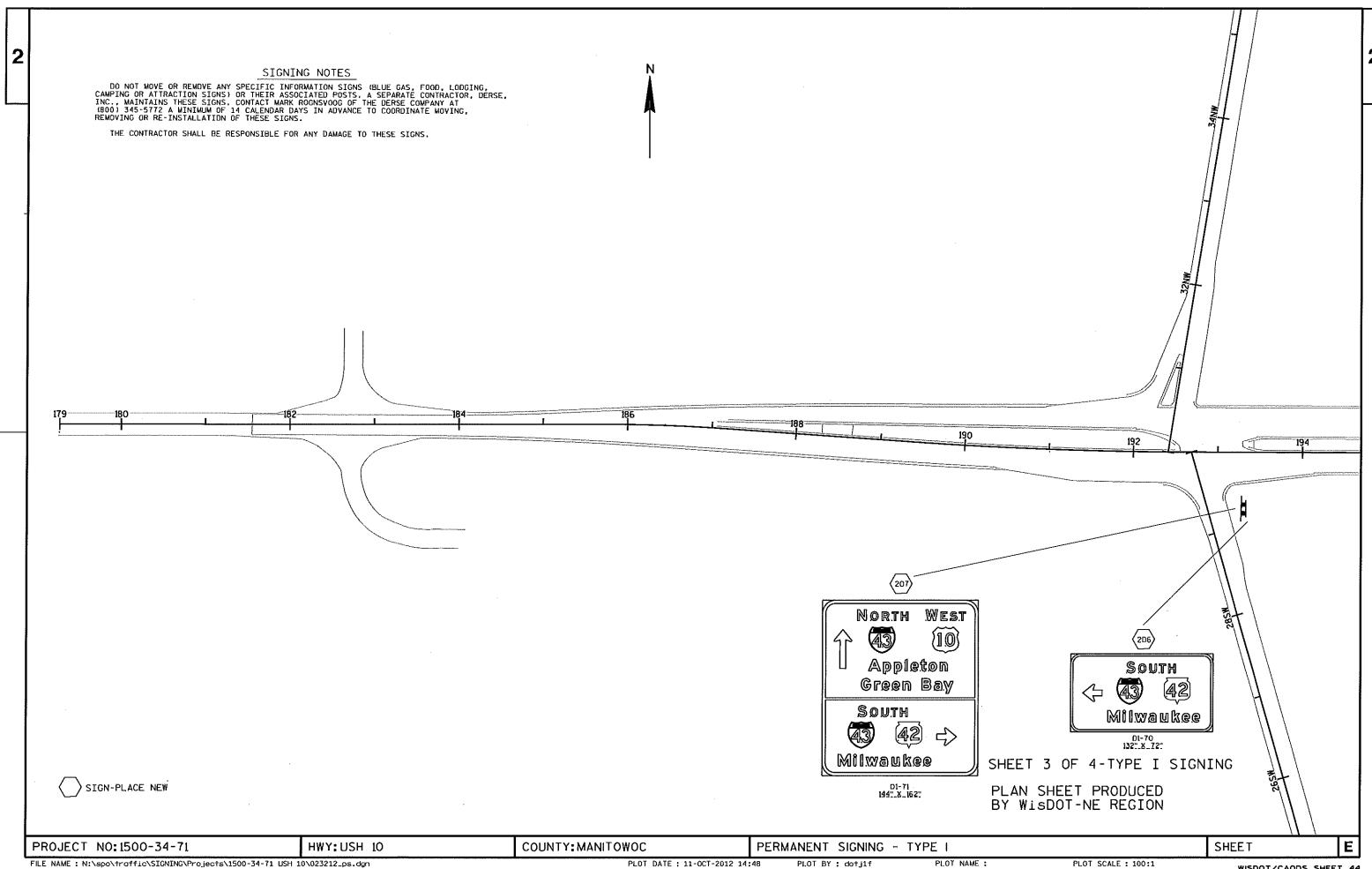
PERMANENT SIGNING - TYPE II

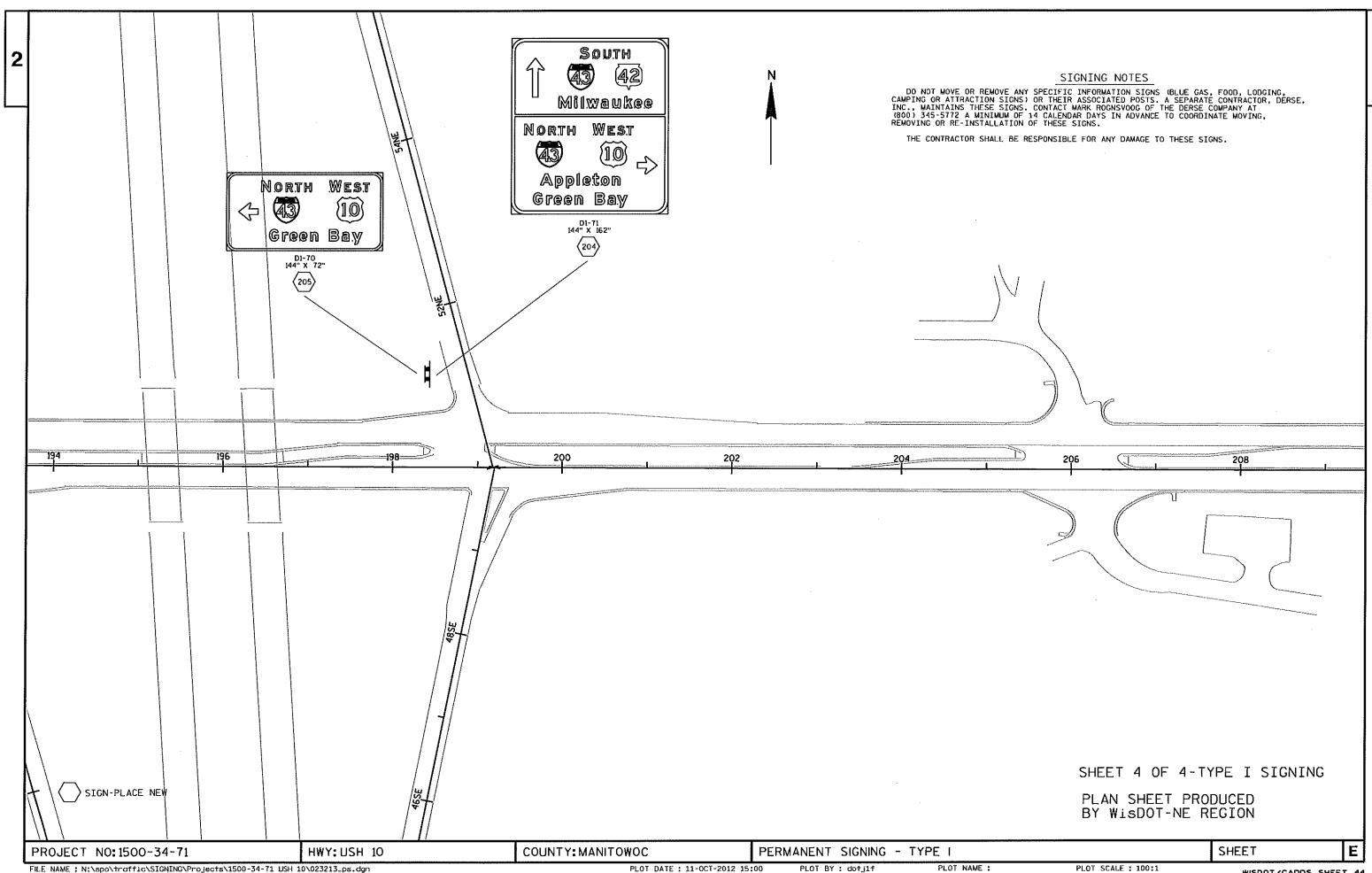
SHEET

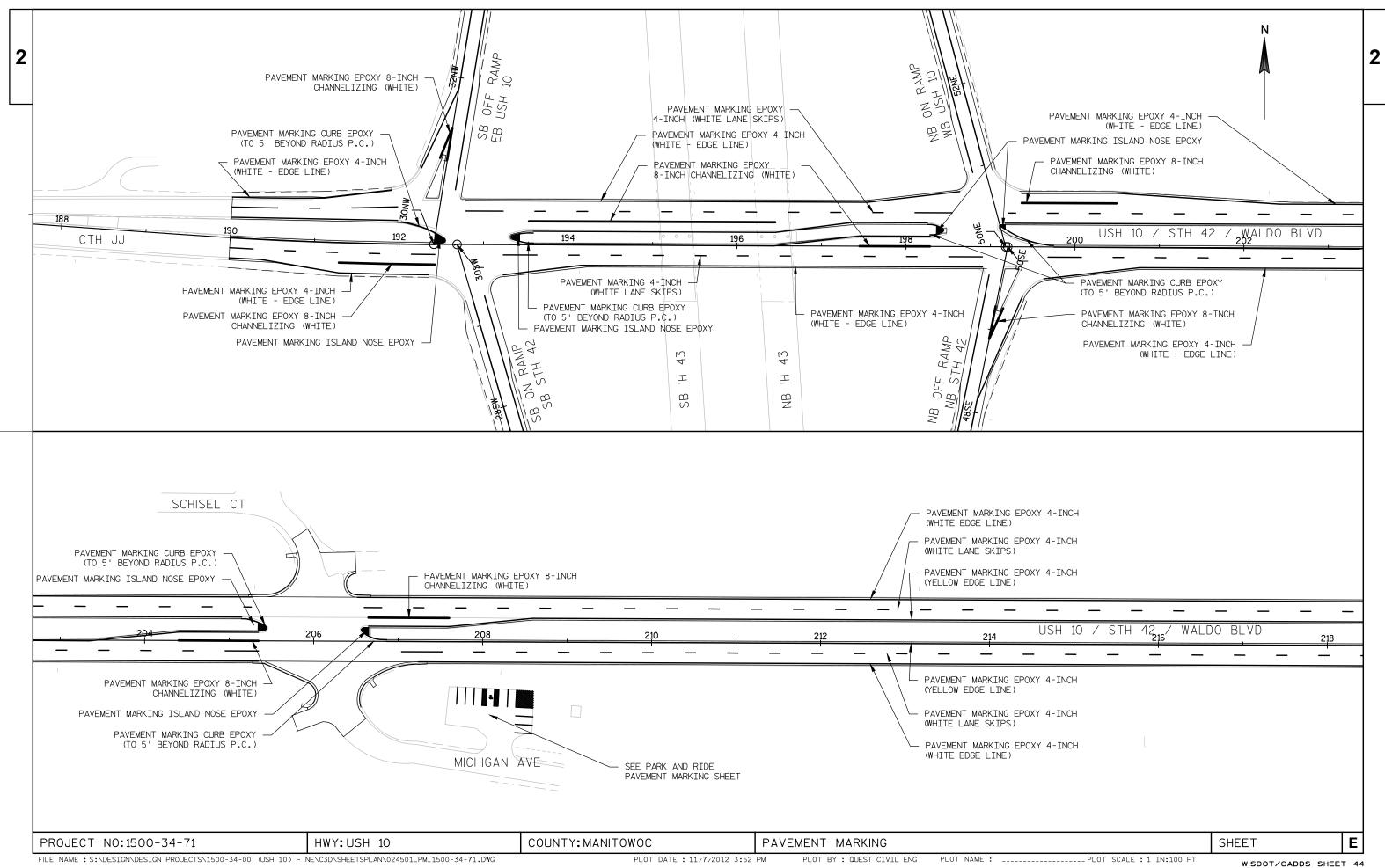
PLOT NAME :

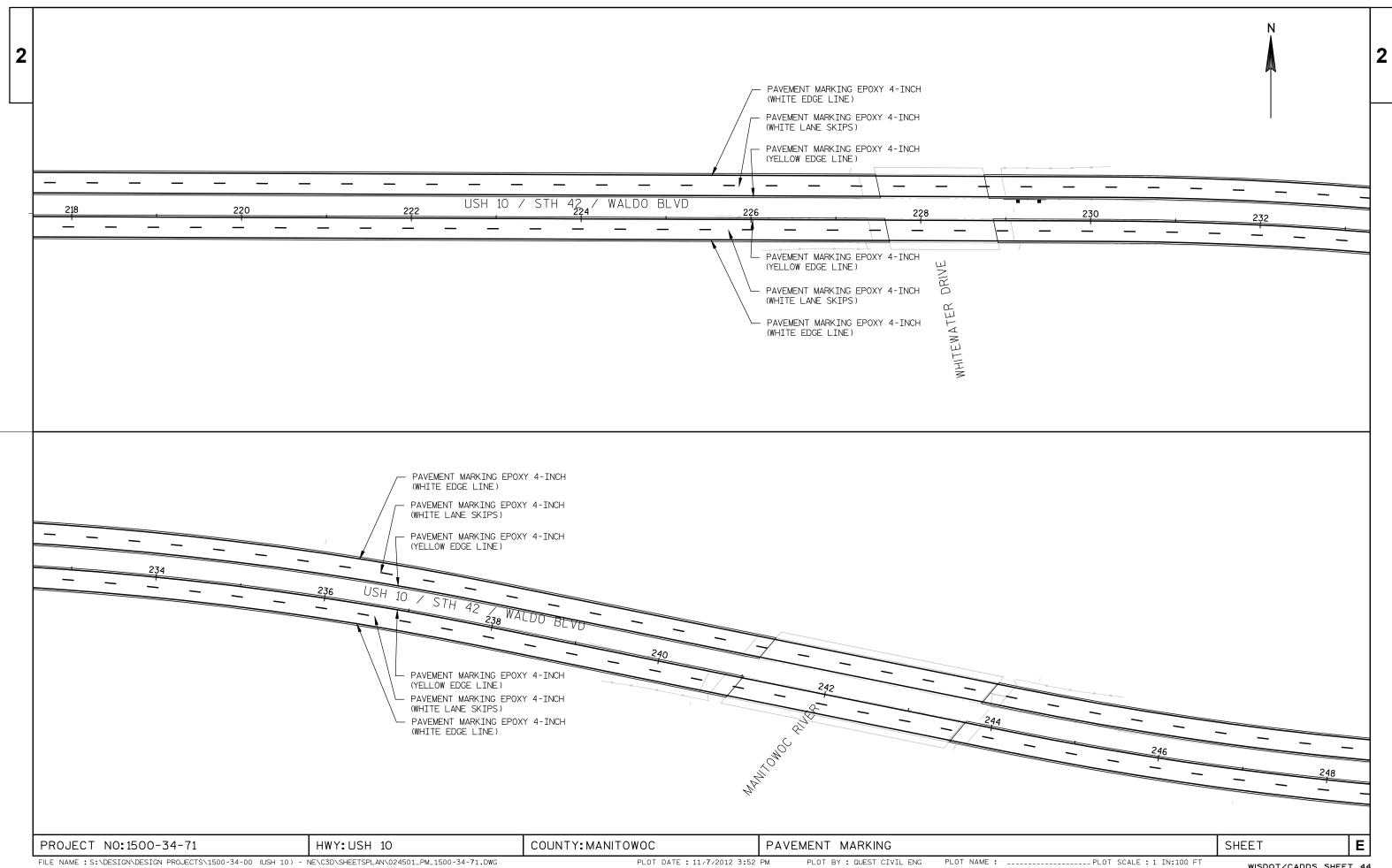


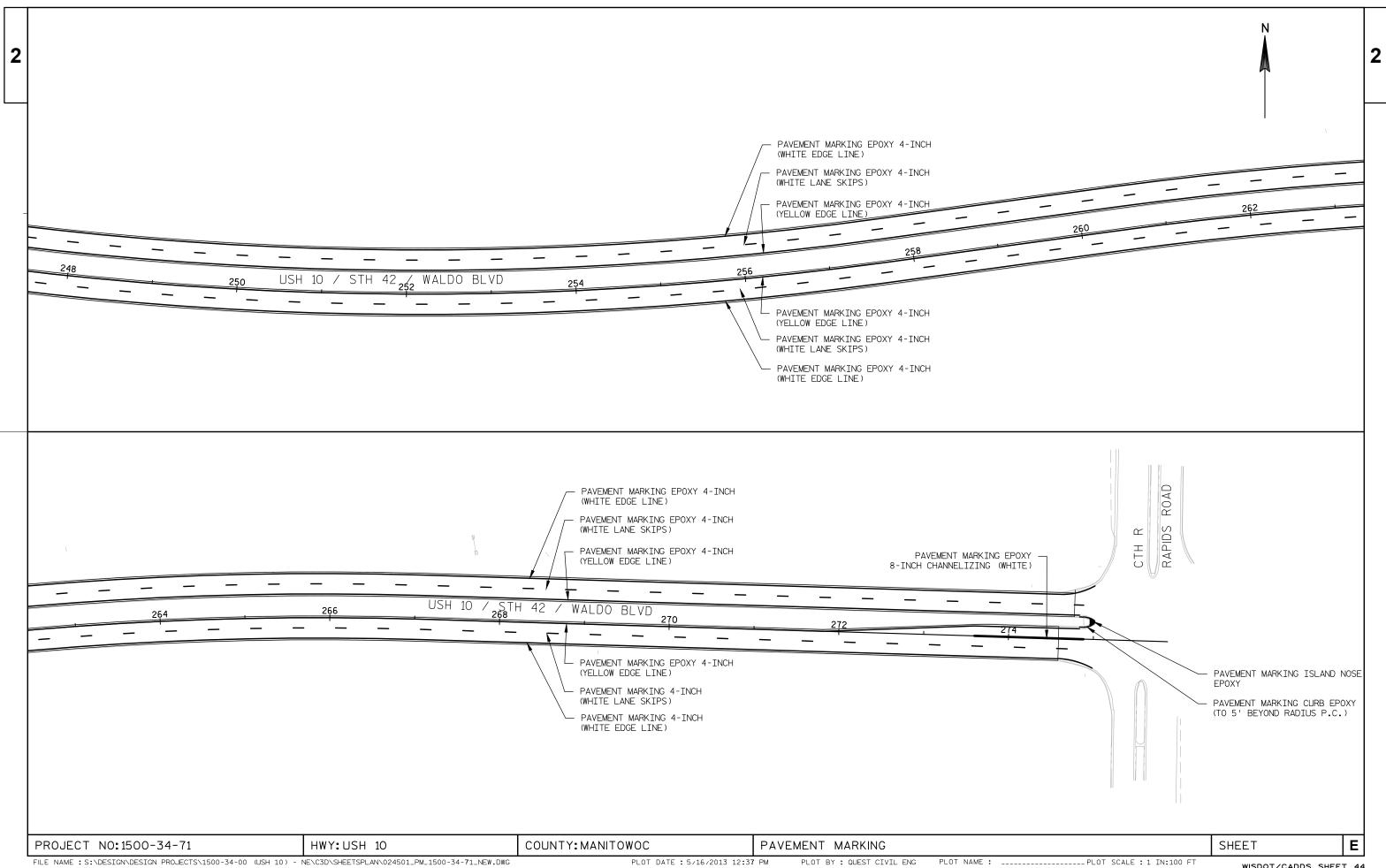


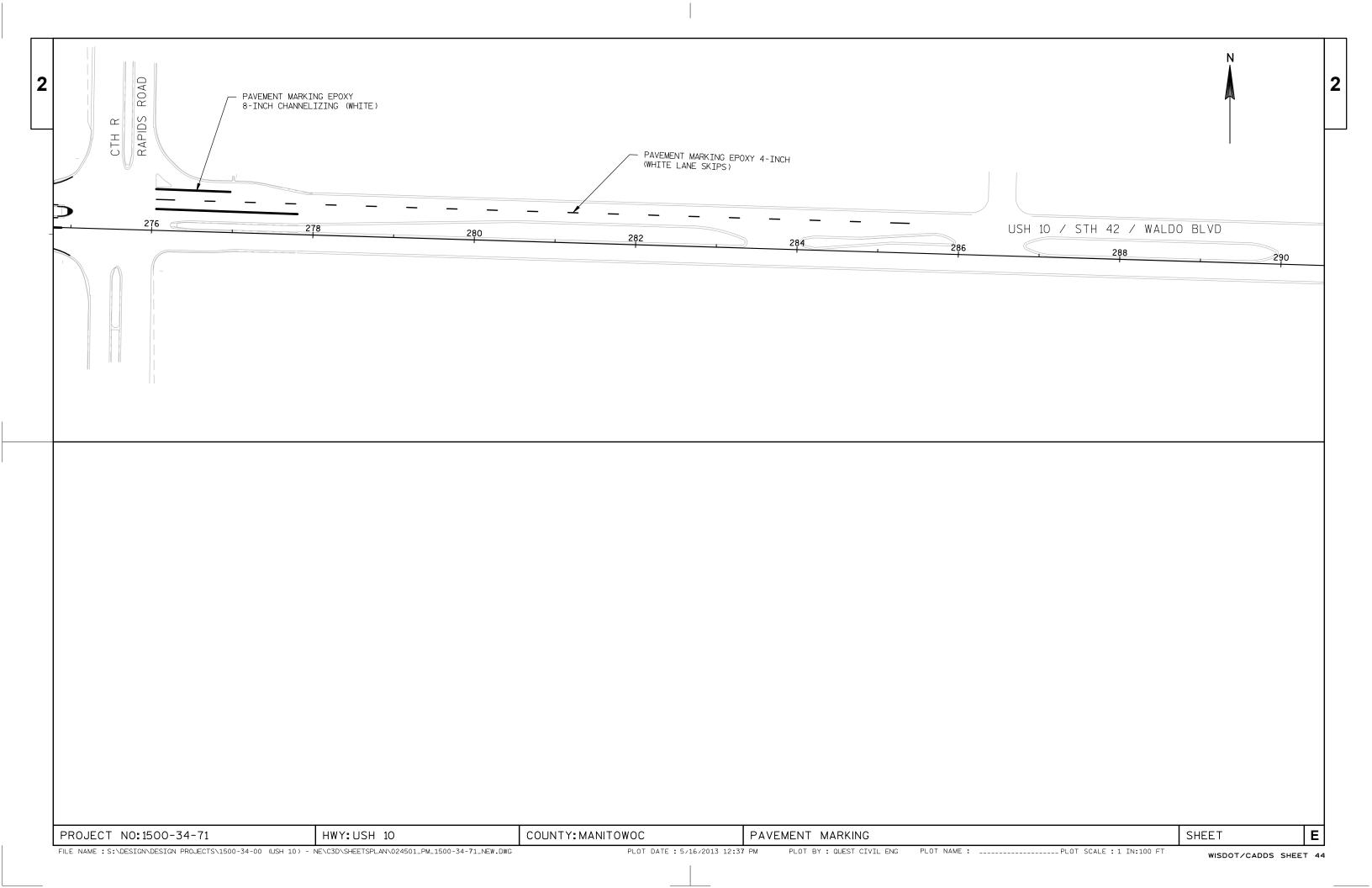


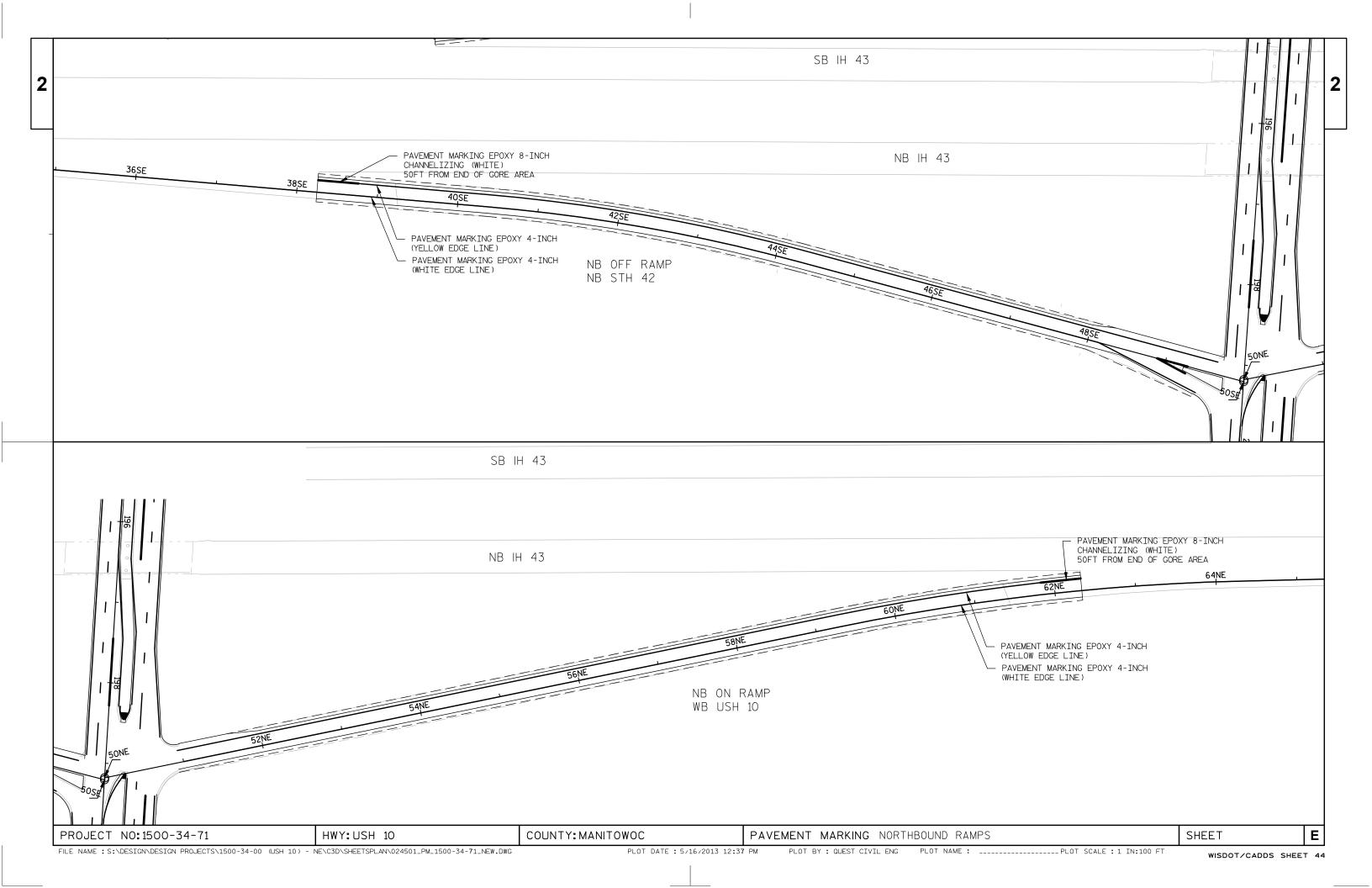


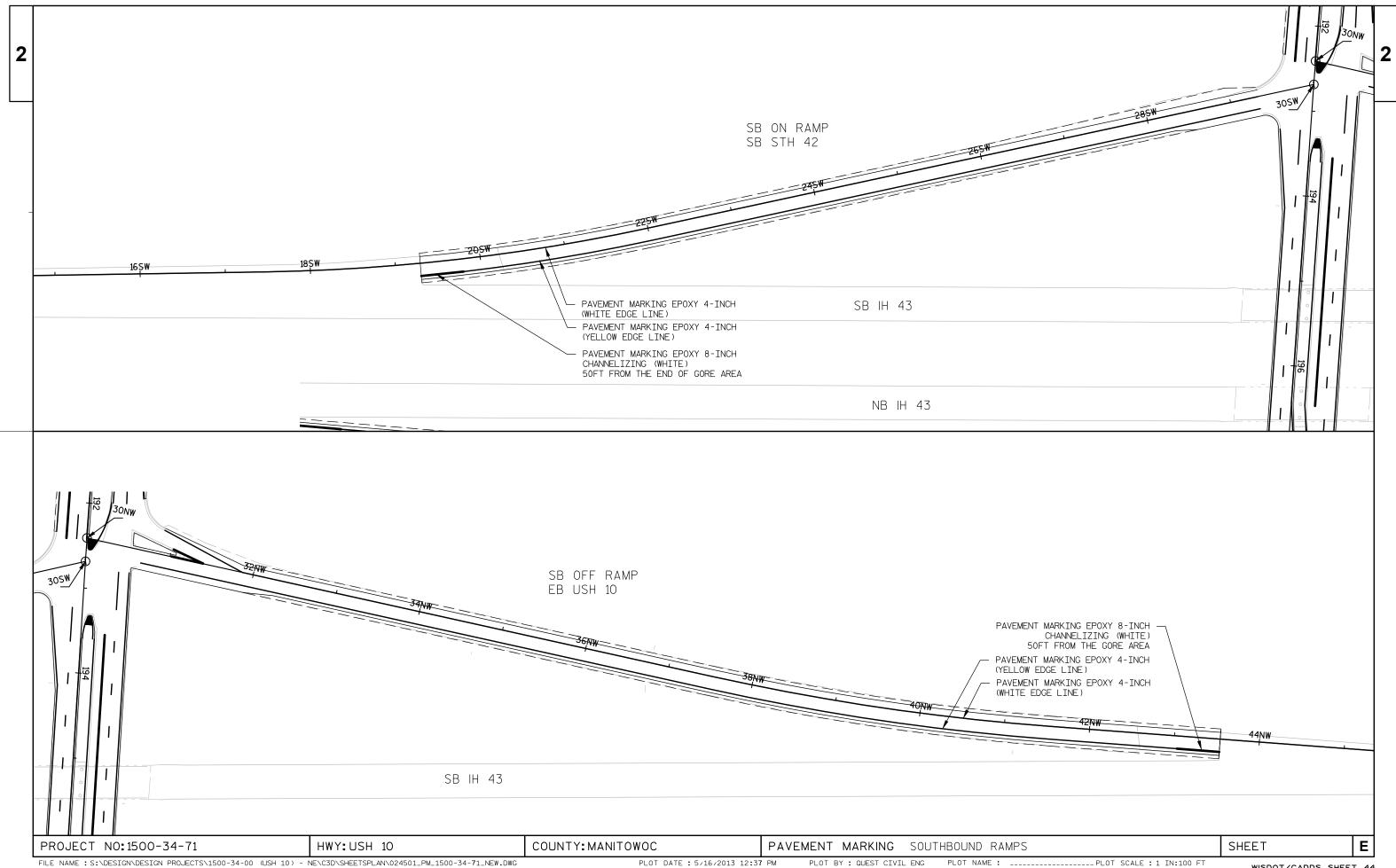


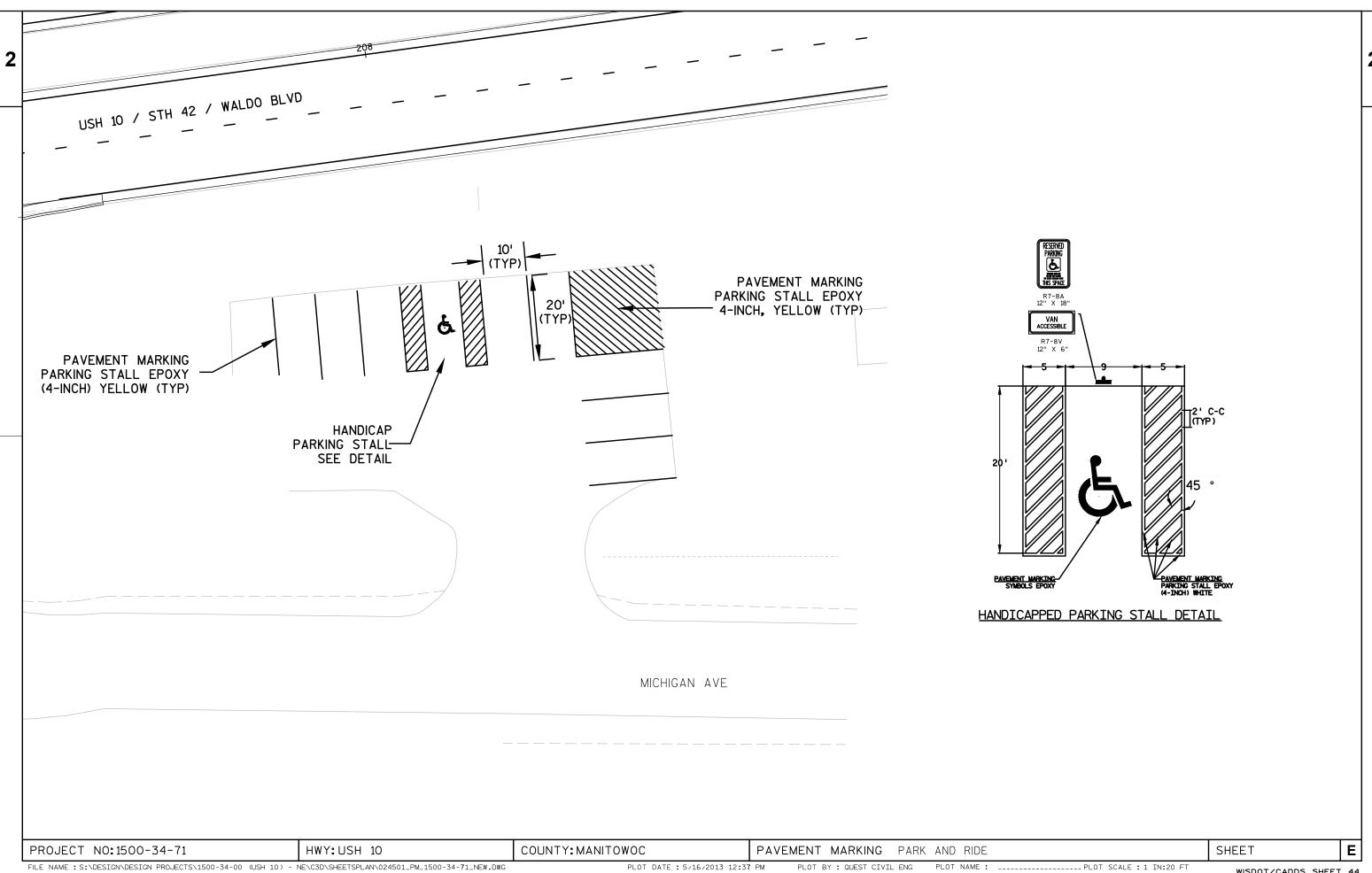


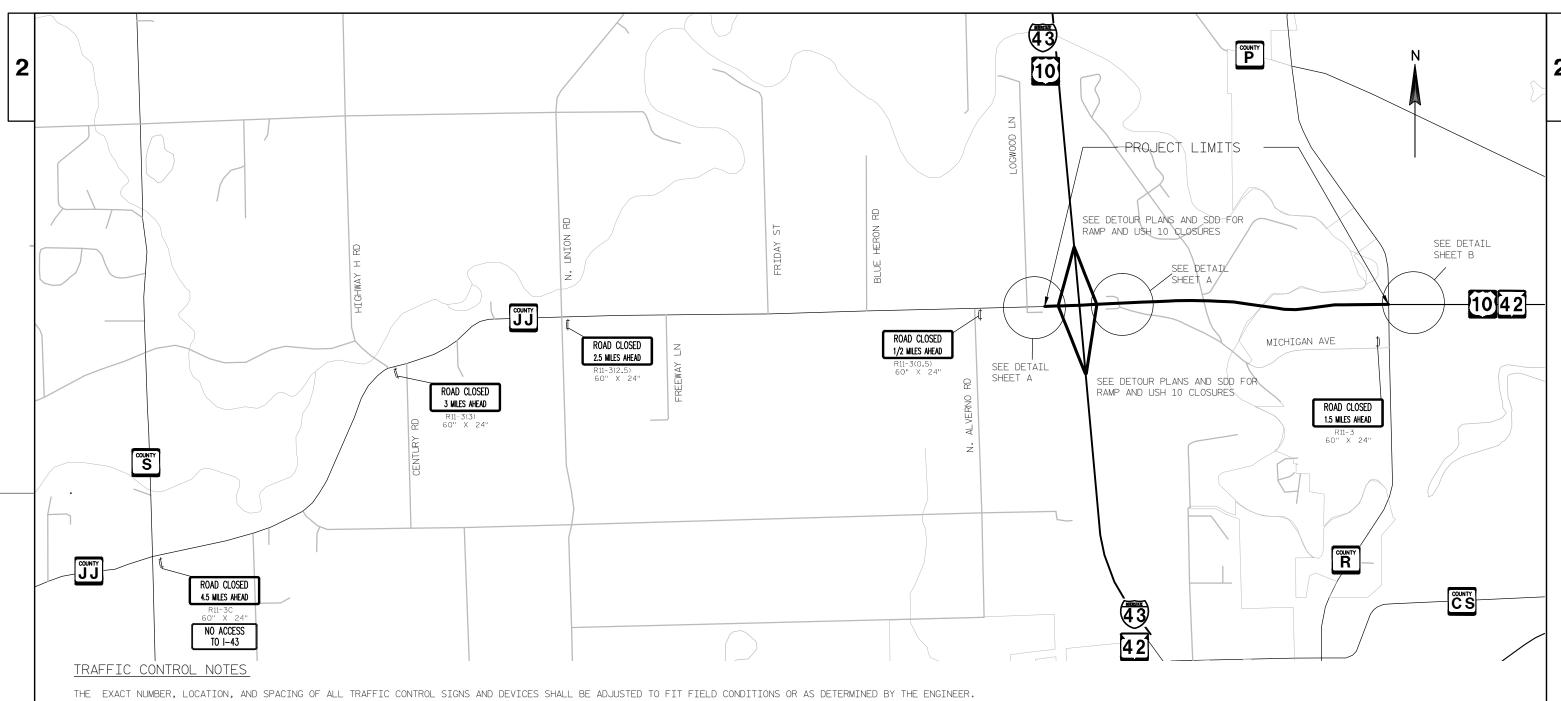












ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).

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

USE SIGN W013-1, "45 MPH" SUPPLEMENTAL SIGNS ON ALL WARNING SIGNS ON USH 10 WITHIN THE 55 MPH ZONE

SIGNS DESIGNATED AS "WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

THE FOLLOWING SIGNS SHALL BE USED AS NEEDED THROUGHOUT THE WORK ZONE. THESE SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE ITEM 643.0100 "TRAFFIC CONTROL (PROJECT 1500-34-71)"

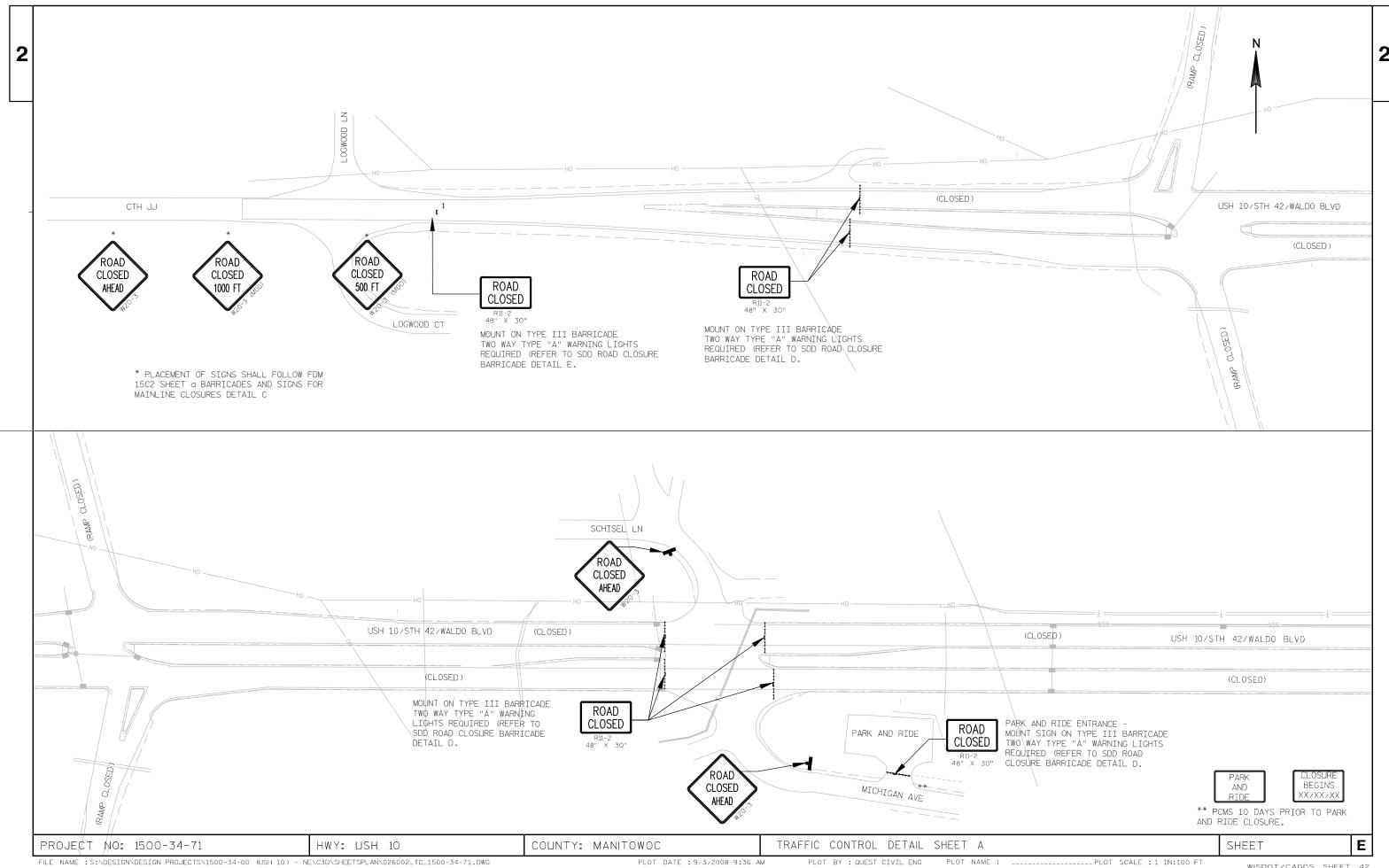
W8-1 36"×36" "BUMP"

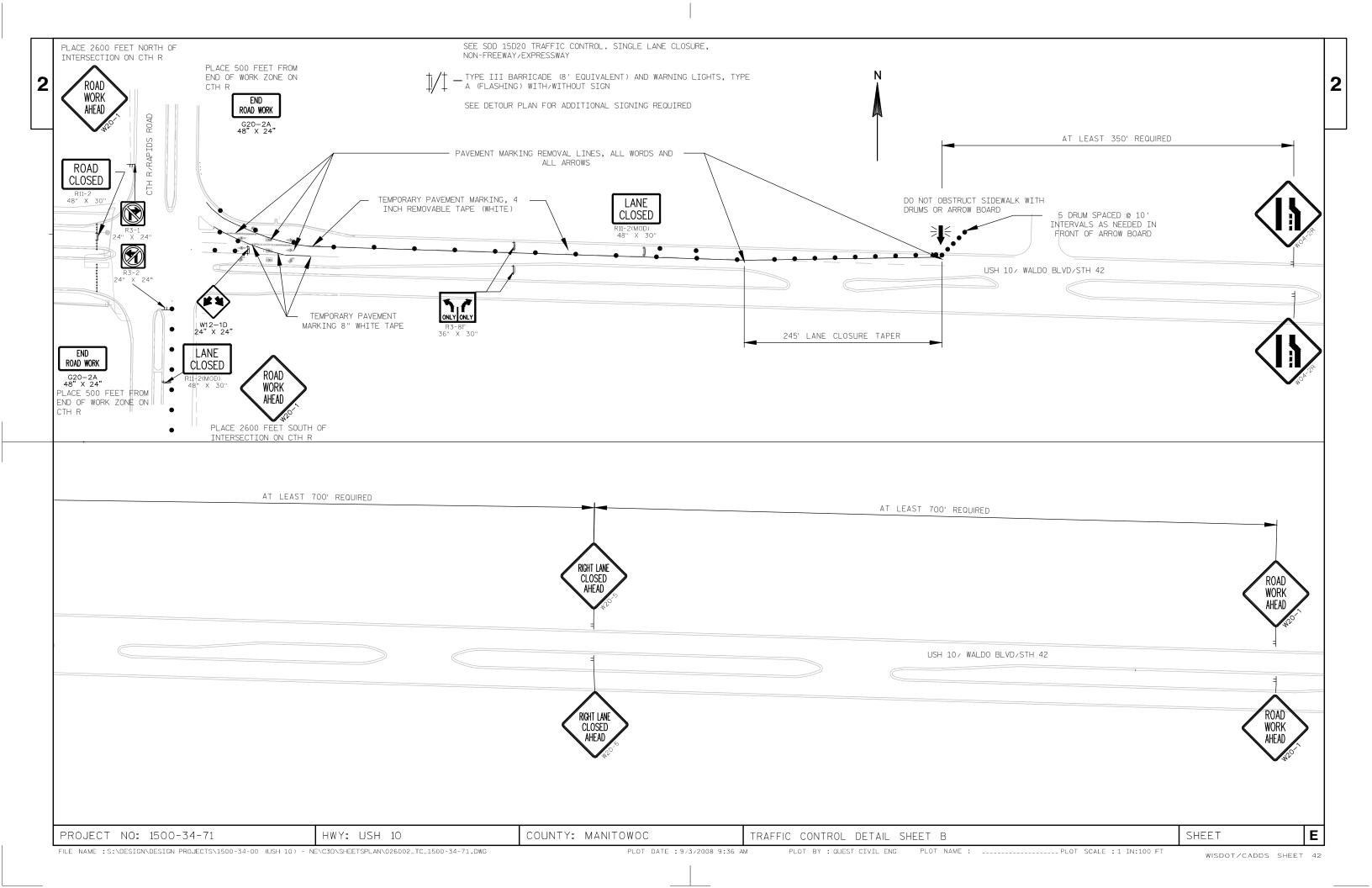
W8-11 36"x36" "UNEVEN LANES"

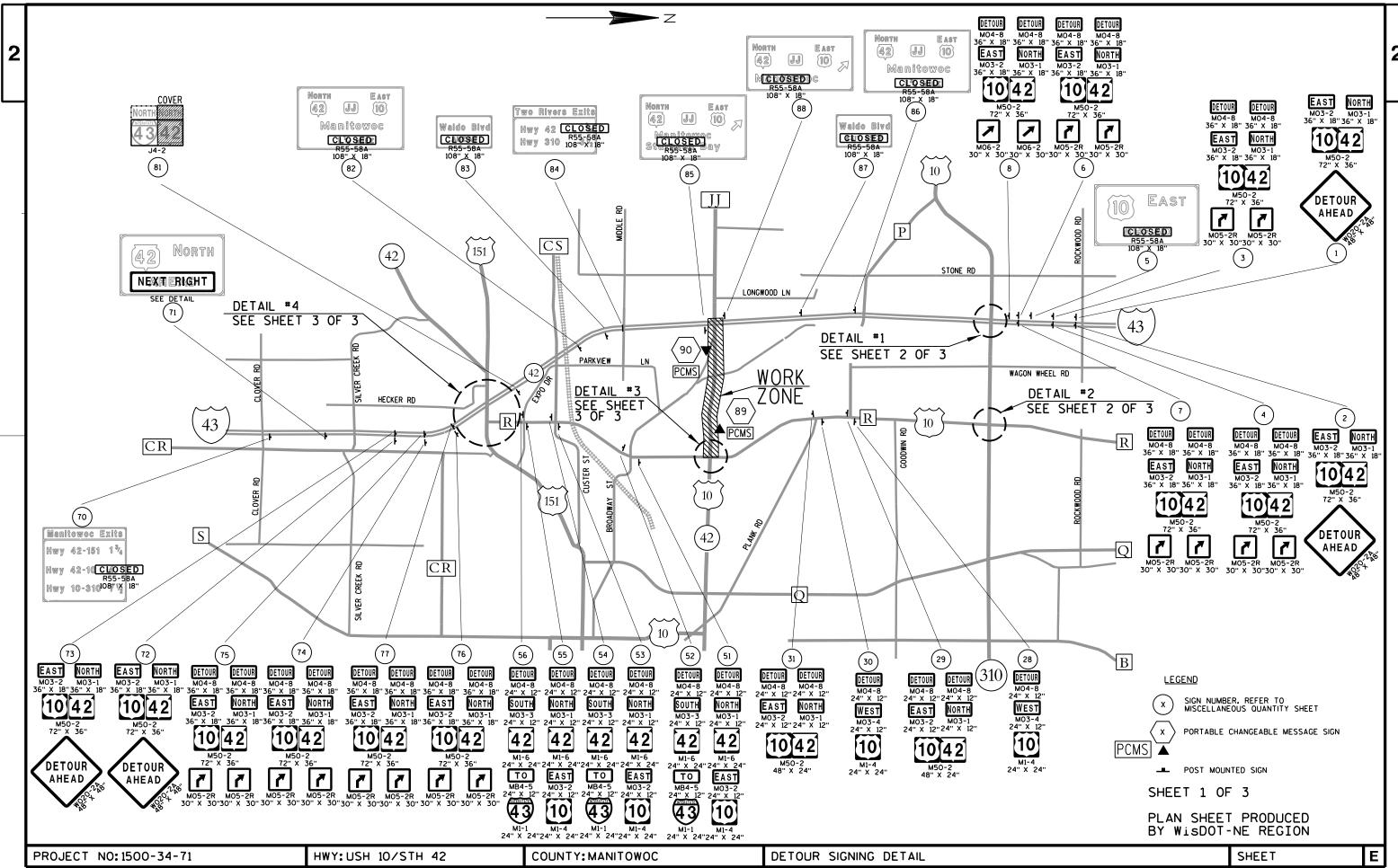
SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC/STAGING REQUIREMENTS.

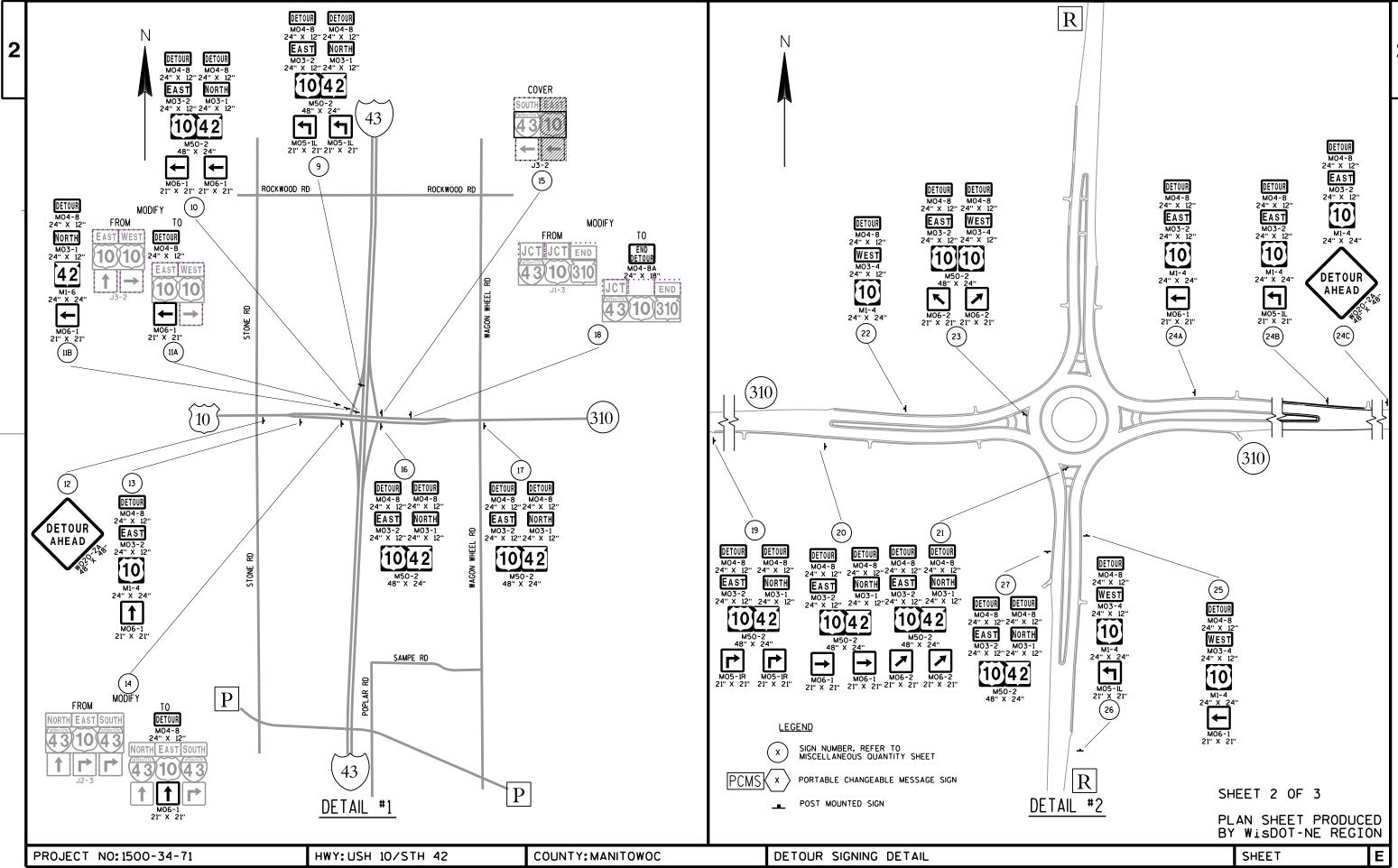
ALL DRUM SPACING IS 50' UNLESS OTHERWISE NOTED

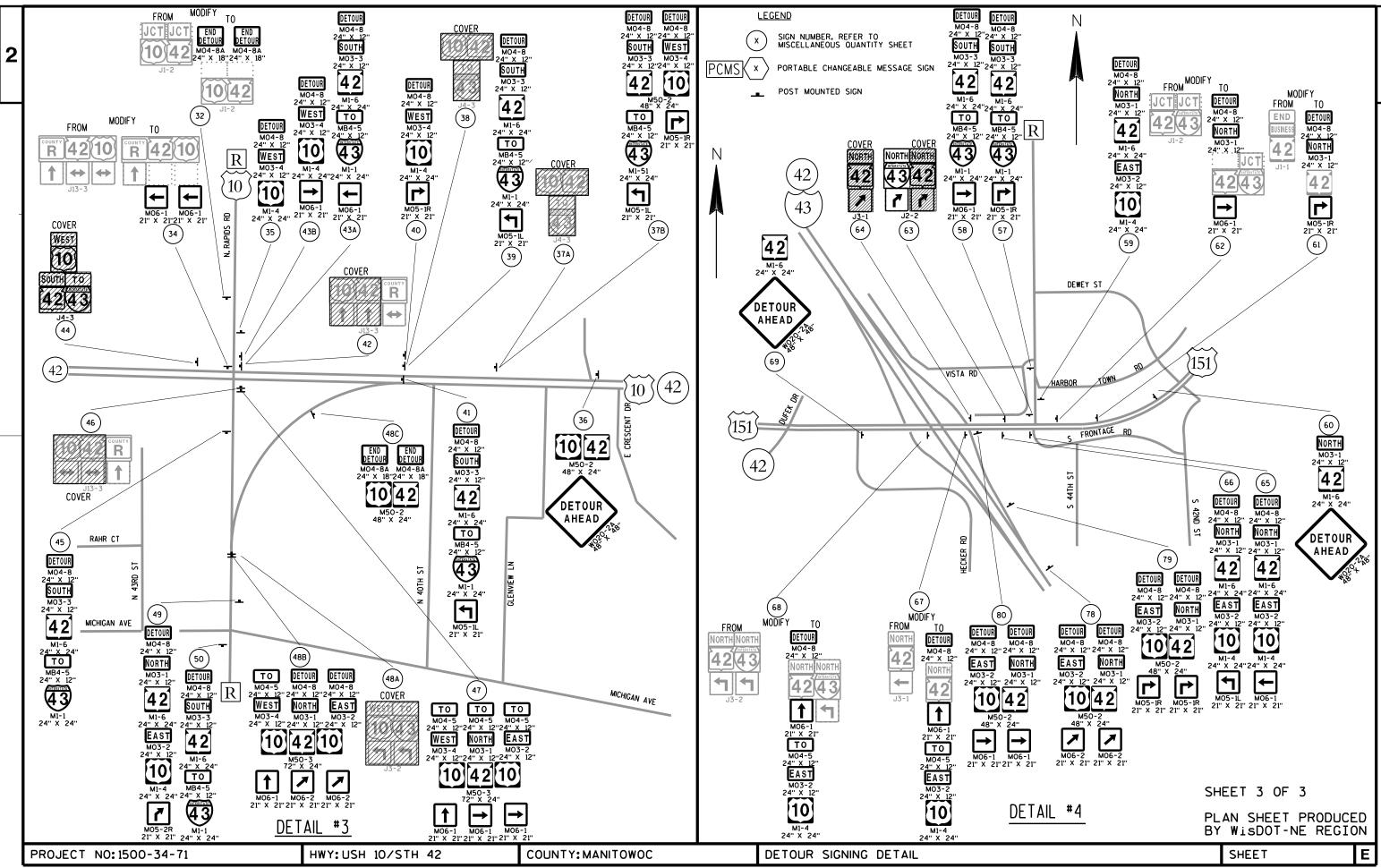
Ε PROJECT NO: 1500-34-71 HWY: USH 10 COUNTY: MANITOWOC TRAFFIC CONTROL OVERVIEW SHEET

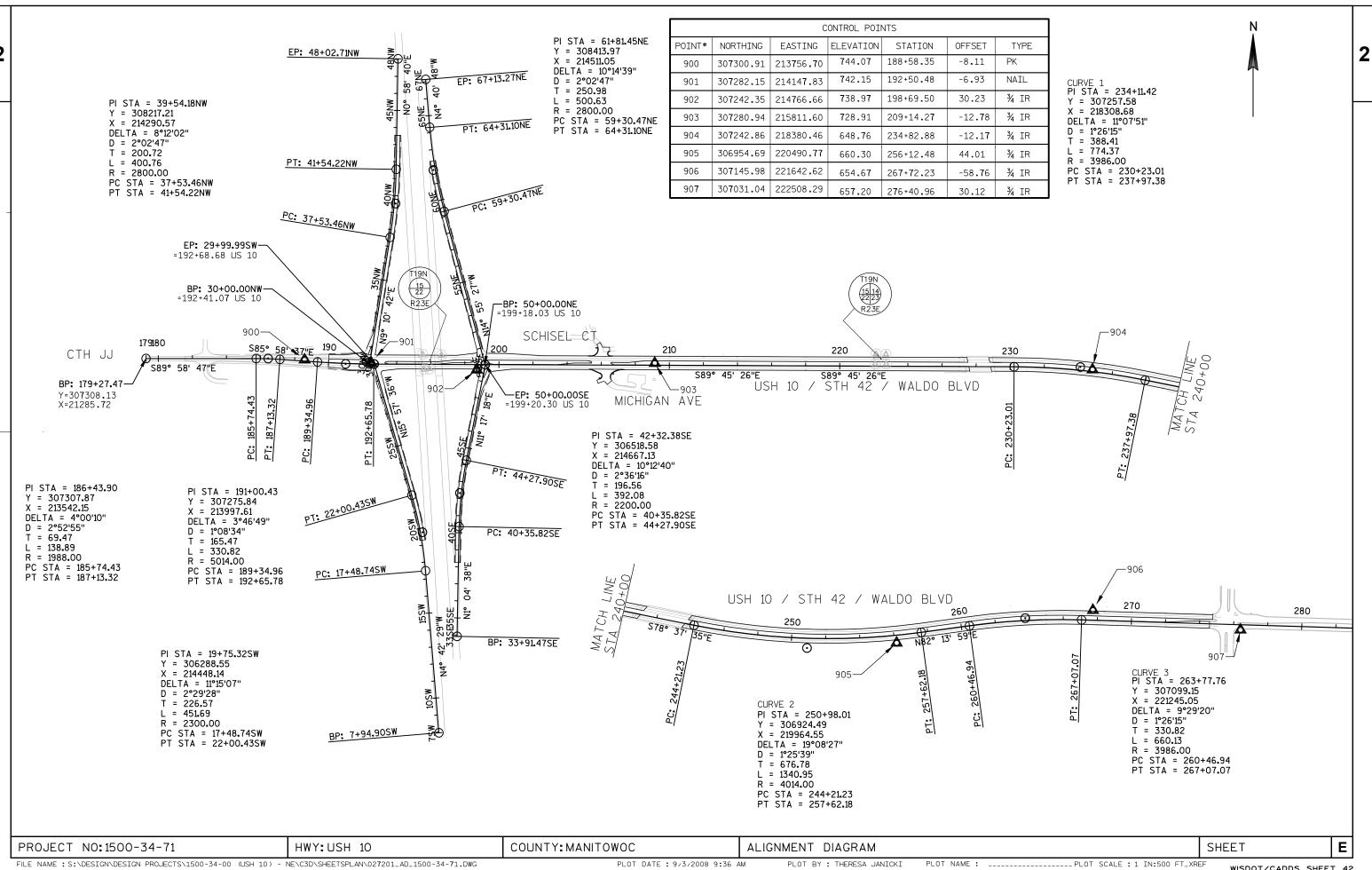












DATE 12	2JUN13	ES	TIMATE	E OF QUAN		
LI NE NUMBER	LTEM	ITEM DESCRIPTION	UNI T	TOTAL	1500-34-71 QUANTI TY	
0010	204. 0105	REMOVING PAVEMENT BUTT JOINTS	SY	425. 000	425. 000	
0020	204. 0110	REMOVING ASPHALTIC SURFACE	SY	20. 000	20. 000	
0030	204. 0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	1, 380. 000	1, 380. 000	
0040	204. 0150	REMOVING CURB & GUTTER	LF	4, 660. 000	4, 660. 000	
0050	204. 0155	REMOVING CONCRETE SIDEWALK	SY	65. 000	65. 000	
00/0	204 01/5	DEMOVING CHARDDALL		FO. 000	F0.000	 _
0060	204. 0165	REMOVING GUARDRAIL	LF EACH	50.000	50.000	
0070	204. 0220 213. 0100	REMOVING INLETS FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000 1. 000	1. 000 1. 000	
0800	213.0100	1500-34-71	EACH	1.000	1.000	
0090	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1, 510. 000	1, 510. 000	
0100	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	250. 000	250. 000	
0110	390. 0303	BASE PATCHING CONCRETE	SY	5, 840. 000	5, 840. 000	-
0120	416. 0610	DRILLED TIE BARS	EACH	3, 010. 000	3, 010. 000	
0130	416. 0620	DRILLED DOWEL BARS	EACH	8, 145. 000	8, 145. 000	
0140		S INCENTIVE IRI RIDE	DOL	14, 565. 000	14, 565. 000	
0150	455. 0105	ASPHALTIC MATERIAL PG58-28	TON	727. 000	727. 000	
0160	455. 0605	TACK COAT	GAL	3, 450. 000	3, 450. 000	 -
0170	460. 1103	HMA PAVEMENT TYPE E-3	TON	13, 210. 000	13, 210. 000	
0170	460. 1103	INCENTIVE DENSITY HMA PAVEMENT	DOL	4, 258. 200	4, 258. 200	
0190	465. 0105	ASPHALTIC SURFACE	TON	245. 000	245. 000	
0200	465. 0110	ASPHALTIC SURFACE PATCHING	TON	245. 000	245. 000	
						 _
0210	465. 0315	ASPHALTIC FLUMES	SY	205.000	205.000	
0220	601. 0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	695. 000	695. 000	
0230	601. 0551	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	LF	75. 000	75. 000	
0240	601. 0557	CONCRETE CURB AND GUTTER 6-INCH SLOPED	LF	310.000	310.000	
		36-INCH TYPE D				
0250	602. 0405	CONCRETE SI DEWALK 4-I NCH	SF	215. 000	215. 000	
0260	606. 0300	RI PRAP HEAVY	CY	5. 000	5. 000	 -
0270	608. 0312	STORM SEWER PIPE REINFORCED CONCRETE	LF	405.000	405.000	
		CLASS III 12-INCH				
0280	611.0430	RECONSTRUCTING INLETS	EACH	74.000	74.000	
0290	611. 0530	MANHOLE COVERS TYPE J	EACH	4. 000	4. 000	
0300	611. 0600	INLET COVERS TYPE A	EACH	2. 000	2. 000	
0310	611. 0624	INLET COVERS TYPE H	EACH	10. 000	10. 000	 -
0320	611. 0627	INLET COVERS TYPE HM	EACH	69. 000	69. 000	
0330	611. 2004	MANHOLES 4-FT DIAMETER	EACH	4. 000	4. 000	
0340	611. 3230	INLETS 2X3-FT	EACH	7. 000	7. 000	
0350	611. 8110	ADJUSTING MANHOLE COVERS	EACH	1. 000	1. 000	
0360	611. 9710	SALVAGED INLET COVERS	EACH	1. 000	1. 000	 -
0370	614. 0305	STEEL PLATE BEAM GUARD CLASS A	LF	50. 000	50. 000	
0380	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS	EACH	1. 000	1. 000	
		(PROJECT) 01. 1500-34-71		000	555	
0390	619. 1000	MOBI LI ZATI ON	EACH	1.000	1.000	
0400	620. 0300	CONCRETE MEDIAN SLOPED NOSE	SF	340.000	340.000	
0410	621. 0100	LANDMARK REFERENCE MONUMENTS	EACH	8. 000	8. 000	 -
0410	624. 0100	WATER	MGAL	10. 000	10. 000	
0420	625. 0100	TOPSOI L	SY	1, 715. 000	1, 715. 000	
0430	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	4. 000	4. 000	
0440	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2. 000	2. 000	
						 _
0460	628. 2008	EROSION MAT URBAN CLASS I TYPE B	SY	1, 715. 000	1, 715. 000	
0470	628. 7005	INLET PROTECTION TYPE A	EACH	15. 000	15. 000	
0480	628. 7015	INLET PROTECTION TYPE C	EACH	15. 000	15. 000	
0490	629. 0210	FERTILIZER TYPE B	CWT	108.000	108. 000	
0500	630. 0120	SEEDING MIXTURE NO. 20	LB	46. 000	46. 000	

DATE 12	JUN13	E S T	ГІМАТ	E O F Q U A N		
LI NE NUMBER	ITFM	ITEM DESCRIPTION	UNI T	TOTAL	1500-34-71 QUANTI TY	
NOWDER	T T E.W	TIEM DESCRIPTION	ON1 1	TOTAL	20/11/11	
0510	634. 0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	48. 000	48. 000	
0520	634. 0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	48. 000	48. 000	
0530	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	20.000	20.000	
0540	635. 0200	SIGN SUPPORTS STRUCTURAL STEEL HS	LB	2, 114. 000	2, 114. 000	
0550	636. 0100	SIGN SUPPORTS CONCRETE MASONRY	CY	3. 000	3. 000	
0560	636. 0500	SIGN SUPPORTS STEEL REINFORCEMENT	LB	196.000	196.000	
0570	637. 0101	SI GNS TYPE I	SF	462.000	462.000	
0580	637. 0202	SIGNS REFLECTIVE TYPE II	SF	1, 233. 710	1, 233. 710	
0590	637. 0402	SIGNS REFLECTIVE FOLDING TYPE II	SF	30. 360	30. 360	
0600	638. 2601	REMOVING SIGNS TYPE I	EACH	3. 000	3. 000	
0610	638. 2602	REMOVING SIGNS TYPE II	EACH	211. 000	211. 000	
0620	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	118. 000	118. 000	
0630	638. 3100	REMOVING STRUCTURAL STEEL SIGN SUPPORTS	EACH	4. 000	4. 000	
0640	642. 5201	FIELD OFFICE TYPE C	EACH	1.000	1. 000	
0650	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 1500-34-71	EACH	1. 000	1. 000	
0660	643. 0300	TRAFFIC CONTROL DRUMS	DAY	4, 400. 000	4, 400. 000	
0670	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	6, 710. 000	6, 710. 000	
0680	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	12, 100. 000	12, 100. 000	
0690	643. 0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	1, 100. 000	1, 100. 000	
0700	643. 0800	TRAFFIC CONTROL ARROW BOARDS	DAY	110. 000	110. 000	
0710	643. 0900	TRAFFIC CONTROL SIGNS	DAY	3, 630. 000	3, 630. 000	
0720	643. 0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	10.000	10.000	
0730	643. 1050	TRAFFIC CONTROL SIGNS PCMS	DAY	21. 000	21.000	
0740	643. 2000	TRAFFIC CONTROL DETOUR (PROJECT) 01.	EACH	1. 000	1. 000	
0750	643. 3000	1500-34-71 TRAFFIC CONTROL DETOUR SIGNS	DAY	42, 020. 000	42, 020. 000	
 0760	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	18. 000	18. 000	
0770	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	48, 245. 000	48, 245. 000	
0780	646. 0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1, 550. 000	1, 550. 000	
0790	646.0600	REMOVING PAVEMENT MARKINGS	LF	340.000	340.000	
0800	647. 0256	PAVEMENT MARKING SYMBOLS EPOXY	EACH	1. 000	1. 000	
0810	647. 0456	PAVEMENT MARKING CURB EPOXY	LF	240. 000	240. 000	
0820	647. 0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	7. 000	7. 000	
0830	647. 0656	PAVEMENT MARKING PARKING STALL EPOXY	LF	320. 000	320. 000	
0840	647. 0955	REMOVING PAVEMENT MARKINGS ARROWS	EACH	7. 000	7. 000	
0850	647. 0965	REMOVING PAVEMENT MARKINGS WORDS	EACH	3. 000	3. 000	
0860	649. 0300	TEMPORARY PAVEMENT MARKING REFLECTIVE	LF	700.000	700. 000	
0870	649. 0801	TAPE 4-INCH TEMPORARY PAVEMENT MARKING REMOVABLE	LF	180.000	180. 000	
0000	/F0 :222	TAPE 8-INCH	E 4 0 · ·	44 555	4	
0880	650. 4000	CONSTRUCTION STAKING STORM SEWER	EACH	11. 000	11. 000	
0890	650. 5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	385. 000	385. 000	
0900	650. 8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	21, 900. 000	21, 900. 000	
0910	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1500-34-71	LS	1. 000	1.000	
0920	690. 0150	SAWING ASPHALT	LF	515. 000	515. 000	
0930	690. 0250	SAWING CONCRETE	LF	27, 000. 000	27, 000. 000	
0930	SPV. 0060	SPECIAL 01. REESTABLISH SECTION CORNER	EACH	2. 000	2. 000	
J 740	J. V. 0000	MONUMENTS	LAGIT	2.000	2.000	
0950	SPV. 0060	SPECIAL 02. RECONNECT EXISTING STORM SEWER LATERAL	EACH	6. 000	6. 000	

	TIES
NUMBED LIEM LIEM DESCRIPTION UNIT TOTAL OLIA	500-34-71
NUMBER ITEM ITEM DESCRIPTION UNIT TOTAL QUAI	UANTI TY
0960 SPV. 0090 SPECIAL 01. CONCRETE CURB AND GUTTER LF 2, 065. 000 2, 00	, 065. 000
30-INCH TYPE A MODIFIED	
0970 SPV. 0090 SPECIAL 02. CONCRETE CURB AND GUTTER LF 1,835.000 1,8	, 835. 000
4-INCH SLOPED 36-INCH TYPE A MODIFIED	
0980 SPV. 0090 SPECIAL 03. LONGITUDI NAL JOI NT REPAIR LF 7, 250. 000 7, 25	, 250. 000
0990 SPV. 0090 SPECIAL 04. CLEAN AND PATCH CONCRETE LF 6, 950. 000 6, 95	, 950. 000
PAVEMENT	
1000 SPV. 0090 SPECIAL 05. GRADING SHAPING FINISHING LF 380. 000 38	380.000
FOR INTERSECTION CURB AND GUTTER	
1010 SPV. 0120 SPECIAL 01. WATER FOR SEEDED AREAS MGAL 20.000	20.000

	REMOVING CONC	RETE PAVEMENT				REMOVI	NG ASPHALTIC SURFA	ACE		
CATEGOR\	Y STATION	LOCATION	204.0105 REMOVING PAVEMENT BUTT JOINTS SY					204.0110 REMOVING ASPHALTIC SURFACE	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	
0010	190+00	EB	30		CATEGORY	STATION	LOCATION	SY	SY	
	190+00 274+59	WB EB	25 65		0010	63+33	RAMP NE RAMP NW		300	
	274+77	WB	45			43+55 38+25	RAMP SE		300 300	
	227+27 227+39	WB EB	30 30			19+29	RAMP SW		300	
-	229+02	WB	30			205+83 206+49	SCHISEL CT (NW) SCHISEL CT (NE)	8 5	50 	
	229+10	EB	30			206+49.	MICHIGAN AVE (SW)	2	80	
	240+65 240+75	EB WB	35 35			205+78	MICHIGAN AVE (SE)	5	50	
	243+82 244+02	EB WB	35 35				TOTAL	20	1,380	
		· · · ·								
		TOTAL	425							
						BASE AGGRE	EGATE DENSE			
	REMOV	ING INLETS		CATEGORY	STATION		LOCATION	305.0110 BASE AGG DENSE 3/4" TON	305.0120 BASE AGG DENSE 1 1/4" TON	624.0100 WATER MGL
				0010	19+71 - 29+	-25	RAMP SW LT	175		0.72
			204.0220		19+71 - 29+		RAMP SW RT	105		0.72
			REMOVING		37+71 - 49+ 37+71 - 49+		RAMP SE RT RAMP SE LT	210 125		0.87 0.87
		SI			33+00 - 43+		RAMP NW RT	110		0.76
CATEGOR	/ STATION	OFFSET N	O EACH		33+00 - 43+		RAMP NW LT	185		0.76
0040	220 - 44	00LDT 00	07		51+00 - 62+		RAMP NE RT	205		0.83
0010	239+11	26' RT 36	27 1		51+00 - 62+		RAMP NE LT	120		0.83
		TO	ΓΛΙ 1		MICHIGAN/SCHISEL IN			4		0.03
		101	IAL I		190+00-192-		EB SHOULDER	99		0.62
					190+00-192- STORM SEWER LO		WB SHOULDER	163	 176	1.12 1.21
					MICHIGAN/SCHISEL IN		CURB BASE		32	0.22
					UNDISTRIBU		33.13.27.132	8	42	0.34
							TOTAL	1,510	250	10

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CONCRETE PAVEMENT REPAIR AND BASE PATCHING

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

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				416.0610	416.0620	690.0250
			390.0303	DRILLED	DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
0010	190+36 EB	DRIVING	32	12	16	72
	190+49 EB	TURN LANE	5			44
	190+79 EB	DRIVING	10		16	39
	191+36 EB	BOTH	24		32	84
	191+54 EB	TURN LANE	8		16	36
	191+71 EB	DRIVING	9		16	38
	191+75 EB	TURN LANE	8		16	36
	191+87 EB	DRIVING	8		16	36
	191+97 EB	TURN LANE	8		16	36
	192+58 EB	BOTH	24		32	84
	192+90 EB	DRIVING	8		16	36
	193+26 EB	PASSING	8		16	36
	193+43 EB	PASSING	8		16	36
	194+93 EB	PASSING	8		16	36
	195+35 EB	BOTH	28		32	69
	195+58 EB	PASSING	10		16	36
	195+52 EB	DRIVING	8		16	39
	195+75 EB	DRIVING	15		16	47
	196+50 EB	DRIVING	26	10	16	64
	196+80 EB	PASSING	8		16	36
	197+15 EB	DRIVING	15		16	46
	197+77 EB	DRIVING	7		16	35
	198+98 EB	BOTH	, 16		32	60
	199+17 EB	PASSING	8		32 16	36
	199+17 EB		 16		32	
		BOTH		 1 <i>E</i>		60
	199+66 EB	BOTH	67	15	32	109
	200+75 EB	PASSING	8		16	36
	201+06 EB	DRIVING	26	10	16	63
	204+24 EB	PASSING	8		16	36
	204+26 EB	DRIVING	8		16	36
	204+43 EB	DRIVING	8		16	36
	204+46 EB	PASSING	8		16	36
	204+65 EB	DRIVING	8		16	36
	204+65 EB	PASSING	8		16	36
	205+53 EB	BOTH	16		32	60
	205+72 EB	PASSING	8		16	36
	206+92 EB	PASSING	8		16	36
	207+33 EB	PASSING	8		16	36
	207+52 EB	PASSING	8		16	36
	208+31 EB	PASSING	8		16	36
	209+58 EB	BOTH	16		32	60
	210+06 EB	BOTH	54		32	89
CONTINUED		SUBTOTALS	603	47	800	1,994

						**
					416.0620	690.0250
			390.0303		DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	211.20 ED	DACCINO	0		16	26
	211+30 EB 211+42 EB	PASSING PASSING	8		16 16	36 36
	211+42 EB 211+92 EB	PASSING	8		16	36
	212+17 EB	PASSING	8		16	36
	212+17 EB 212+67 EB	PASSING	8		16	36
	212+07 EB 213+17 EB	PASSING	8		16	36
	213+17 EB 213+79 EB	PASSING	8		16	36
	213+79 EB 213+92 EB	BOTH	16		32	60
	213+98 EB	PASSING	8		32 16	36
	214+41 EB	BOTH	 16		32	60
	214+41 EB 214+52 EB	PASSING			32 16	36
		PASSING	8			36
	214+65 EB		8		16	
	215+02 EB	PASSING PASSING	8		16	36
	215+64 EB		8		16 16	36
	215+89 EB	PASSING	8		16	36
	216+17 EB	DRIVING	8	8	16 16	36
	216+26 EB	PASSING	8		16	36
	216+86 EB	PASSING	8		16	36
	217+12 EB	PASSING	8		16	36
	218+25 EB	PASSING	7		16	35
	218+70 EB	PASSING	8		16	36
	218+82 EB	PASSING	8		16 16	36
	219+95 EB	PASSING	8		16 16	36
	220+07 EB	PASSING	8		16	36
	221+01 EB	PASSING	8		16	36
	221+32 EB	PASSING	8		16	36
	221+62 EB	DRIVING	9		16	37
	221+82 EB	PASSING	8		16	36
	222+69 EB	PASSING	8		16	36
	222+89 EB	PASSING	8		16	36
	223+06 EB	PASSING	8		16	36
	223+18 EB	PASSING	8		16	36
	224+43 EB	PASSING	8		16	36
	225+06 EB	PASSING	8		16	36
	225+19 EB	PASSING	8		16	36
	225+55 EB	PASSING	8		16	36
	227+47 EB	PASSING	8		16	36
	229+15 EB	PASSING	39	5	16	49
	229+15 EB	DRIVING	9	6	16	37
	229+45 EB	PASSING	8		16	36
	229+83 EB	PASSING	8		16	36
001171111	230+57 EB	PASSING	8		16	36
CONTINUED		SUBTOTALS	389	19	704	1,589

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

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^^	000 0050	

		PASS/DRIVE LANE	390.0303 BASE PATCHING CONCRETE		416.0620 DRILLED DOWEL BARS	690.0250 SAWING CONCRETE
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	231+09 EB	BOTH	16		32	60
	232+39 EB	PASSING	21	4	16	55
	233+08 EB	PASSING	8		16	36
	233+70 EB	PASSING	8		16	36
	233+84 EB	PASSING	8		16	36
	234+95 EB	PASSING	8		16	36
	235+08 EB	PASSING	8		16	36
	235+27 EB	PASSING	8		16	36
	235+38 EB	DRIVING	74	22	16	80
	236+07 EB	PASSING	8		16	36
	236+52 EB	PASSING	8		16	36
	236+83 EB	PASSING	8		16	36
-	236+95 EB	PASSING	8		16	36
	237+15 EB	PASSING	8		16	36
	237+59 EB	BOTH	16		32	60
	237+77 EB	PASSING	8		16	36
	238+07 EB	PASSING	8		16	36
	238+21 EB	BOTH	16		32	60
	238+69 EB	PASSING	8		16	36
	239+52 EB	DRIVING	190	56	16	165
	240+07 EB	PASSING	8		16	36
	240+42 EB	DRIVING	8		16	36
	240+58 EB	BOTH	16		32	60
	244+13 EB	BOTH	16		32	60
	244+66 EB	BOTH	8		16	36
	247+56 EB	PASSING	8		16	36
	248+19 EB	PASSING	8		16	36
	250+69 EB	PASSING	8		16	36
	251+66 EB	PASSING	8		16	36
	251+84 EB	PASSING	8		16	36
	253+57 EB	PASSING	8		16	36
	255+26 EB	PASSING	8		16	36
	255+51 EB	BOTH	16		32	60
	255+64 EB	PASSING	8		16	36
	257+94 EB	PASSING	8		16	36
	260+03 EB	PASSING	8		16	36
	260+54 EB	PASSING	8		16	36
	260+80 EB	PASSING	8		16	36
	261+18 EB	PASSING	8		161	36
	261+30 EB	PASSING	8		16	36
	261+49 EB	PASSING	8		16	36
	261+95 EB	PASSING	8		16	36
CONTINUED		SUBTOTALS	649	83	913	1,859

				416.0610	416.0620	690.0250
			390.0303	DRILLED	DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
ATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	262+08 EB	PASSING	8		16	36

			390.0303	DKILLED	DKILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	262+08 EB	PASSING	8		16	36
	262+73 EB	PASSING	8		16	36
	263+11 EB	PASSING	8		16	36
	263+24 EB	PASSING	8		16	36
	263+76 EB	PASSING	8		16	36
	263+89 EB	PASSING	8		16	36
	264+01 EB	PASSING	8		16	36
	264+40 EB	PASSING	8		16	36
	264+53 EB	PASSING	8		16	36
	264+67 EB	PASSING	8		16	36
	264+86 EB	PASSING	8		16	36
	265+00 EB	PASSING	8		16	36
	265+28 EB	PASSING	8		16	36
	265+48 EB	PASSING	8		16	36
	265+66 EB	PASSING	8		16	36
	265+78 EB	PASSING	8		16	36
	265+91 EB	PASSING	8		16	36
	266+28 EB	PASSING	8		16	36
	266+54 EB	PASSING	8		16	36
	267+26 EB	PASSING	8		16	36
	267+45 EB	PASSING	8		16	36
	267+63 EB	PASSING	8		16	36
	267+76 EB	PASSING	8		16	36
	268+15 EB	PASSING	8		16	36
	268+88 EB	PASSING	8		16	36
	269+02 EB	PASSING	8		16	36
	269+50 EB	PASSING	8		16	36
	270+14 EB	PASSING	8		16	36
	270+65 EB	PASSING	8		16	36
	271+54 EB	PASSING	8		16	36
	272+03 EB	PASSING	8		16	36
	272+16 EB	PASSING	8		16	36
	272+55 EB	PASSING	8		16	36
	272+66 EB	PASSING	<u></u>		18	46
	273+00 EB	PASSING	8		16	35
	273+15 EB	PASSING	5		10	28
	273+29 EB	PASSING	14		20	54
	273+42 EB	PASSING	15		20	56
	273+42 EB 273+61 EB	PASSING	15		20	58
	273+80 EB	PASSING	16		32	60
	273+91 EB	PASSING	16		32 32	60
	273+91 EB 274+05 EB	PASSING	16	- 	32 32	60
	214+03 ED	PASSING	10		32	00

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CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

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					416.0620	690.0250
			390.0303		DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	274+24 EB	PASSING	16		32	60
	274+84 EB	TURN LANE	8		16	36
	190+95 WB	PASSING	8		16	36
	191+06 WB	DRIVING	8		16	36
	191+24 WB	DRIVING	26	10	16	63
	191+24 WB	PASSING	8		16	30
	191+45 WB	DRIVING	8		16	30
	191+45 WB	PASSING	8		16	30
	191+75 WB	DRIVING	8		16	30
	191+75 WB	PASSING	8		16	30
	191+93 WB	DRIVING	8		16	20
	191+95 WB	PASSING	17		16	50
	191+99 WB	ALT	13	20	16	45
	192+15 WB	BOTH	16		32	60
	193+22 WB	DRIVING	8		16	36
	193+32 WB	PASSING	8		16	36
	193+33 WB	ALT	8		16	36
	193+62 WB	DRIVING	8		16	36
	193+88 WB	BOTH	16		32	60
	194+02 WB	BOTH	16		32	60
	194+43 WB	DRIVING	8		16	36
	194+61 WB	BOTH	16		32	60
	194+70 WB	PASSING	8		16	36
	194+81 WB	BOTH	16		32	60
	195+31 WB	ALT	7		16	32
	195+72 WB	ALT	8		16	36
	195+72 WB	DRIVING	26	31	32	63
	195+96 WB	ALT	8		16	33
	196+06 WB	PASSING	9		16	37
	196+80 WB	BOTH	46	41	32	99
	197+00 WB	PASSING	8		16	36
	197+07 WB	DRIVING	10		16	39
	197+20 WB	DRIVING	8		16	36
	197+39 WB	PASSING	8		16	36
	197+50 WB	PASSING	8		16	36
	198+00 WB	DRIVING	12		16	47
	198+20 WB	ALT	5		16	28
	198+40 WB	ВОТН	23		32	80
	198+57 WB	ВОТН	16		32	60
	198+80 WB	DRIVING	8		16	36
	199+00 WB	BOTH	16		32	60
	199+17 WB	ВОТН	16		32	60
CONTINUED		SUBTOTALS	513	102	864	1,866
55111111000		0001017120	310	102	-	1,000

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

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			390.0303	DRILLED	416.0620 DRILLED	690.0250 SAWING
		PASS/DRIVE LANE	BASE PATCHING CONCRETE	TIE BARS	DOWEL BARS	CONCRET
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	199+26 WB	BOTH	16		32	60
	199+35 WB	ВОТН	16		32	60
	199+42 WB	ALT	8		16	36
	199+64 WB	BOTH	53	32	32	88
	200+19 WB	DRIVING	9		16	36
	200+63 WB	DRIVING	8		16	36
	200+79 WB	DRIVING	11		16	41
	200+95 WB	DRIVING	8		16	36
	201+05 WB	DRIVING	8		16	36
	201+14 WB	DRIVING	8		16	36
	201+20 WB	DRIVING	13		16	43
	201+45 WB	DRIVING	8		16	36
	201+58 WB	DRIVING	11		16	40
	201+68 WB	DRIVING	15		16	46
	201+85 WB	DRIVING	9		16	36
	202+14 WB	DRIVING	8		16	36
	202+39 WB	DRIVING	11		16	40
	202+54 WB	DRIVING	8		16	36
	203+18 WB	DRIVING	11		16	41
	204+33 WB	BOTH	16		32	60
	205+38 WB	BOTH	34	28	32	73
	205+52 WB	DRIVING	8		16	36
	206+23 WB	DRIVING	8		16	36
	206+36 WB	PASSING	9		16	37
	207+12 WB	DRIVING	8		16	36
	207+20 WB	PASSING	8		16	36
	207+24 WB	DRIVING	8		16	36
	207+62 WB	DRIVING	8		16	36
	208+22 WB	DRIVING	8		16	36
	208+93 WB	DRIVING	8		16	36
	210+12 WB	BOTH	16		32	60
	210+55 WB	PASSING	8		16	36
	210+90 WB	BOTH	16		32	60
	211+32 WB	BOTH	8		16	36
	212+83 WB	BOTH	16		32	60
	213+32 WB	DRIVING	16		32	60
	213+45 WB	PASSING	8		16	36
	214+00 WB	PASSING	8		16	36
	214+13 WB	PASSING	8		16	36
	214+25 WB	PASSING	8		16	36
	214+73 WB	PASSING	8		16	36
CONTINUED	214+92 WB	DRIVING SUBTOTALS	8 494	60	16 816	36 1,805

3

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

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						**
					416.0620	690.0250
			390.0303		DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	215+23 WB	PASSING	8		16	36
	215+35 WB	PASSING	8		16	36
	215+47 WB	PASSING	8		16	36
	215+96 WB	PASSING	8		16	36
	216+57 WB	PASSING	8		16	36
	217+80 WB	PASSING	8		16	36
	218+10 WB	BOTH	16		32	36
	218+30 WB	PASSING	8		16	36
	218+41 WB	PASSING	8		16	36
	218+55 WB	PASSING	8		16	36
	219+04 WB	PASSING	8		16	36
	219+53 WB	PASSING	8		16	36
	219+65 WB	BOTH	16		32	60
	220+26 WB	BOTH	16		32	60
	220+64 WB	DRIVING	8		16	36
	220+94 WB	DRIVING	8		16	36
	221+48 WB	BOTH	16		32	60
	222+00 WB	BOTH	16		32	60
	222+26 WB	BOTH	16		32	60
	222+95 WB	DRIVING	8		16	36
	223+36 WB	PASSING	8		16	36
	224+93 WB	PASSING	8		16	36
	225+11 WB	PASSING	8		16	36
	225+24 WB	PASSING	8		16	36
	226+48 WB	PASSING	8		16	36
	227+17 WB	PASSING	8		16	36
	227+30 WB	PASSING	8		16	36
	229+03 WB	DRIVING	53		16	62
	229+03 WB	PASSING	48		16	62
	230+54 WB	BOTH	16		32	60
	230+87 WB	PASSING	8		16	36
	231+04 WB	BOTH	16		32	60
	231+17 WB	BOTH	16		32	60
	231+31 WB	BOTH	16		32	60
	231+67 WB	DRIVING	8		16	36
	231+81 WB	BOTH	16		32	60
	231+94 WB	PASSING	8		16	36
	232+42 WB	PASSING	8		16	36
	233+13 WB	DRIVING	8		16	30
	233+13 WB	PASSING	33	10	16	49
	233+51 WB	BOTH	16		32	60
	233+64 WB	BOTH	16		32	60
CONTINUED		SUBTOTALS	552	10	880	1,859

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

**

		PASS/DRIVE LANE	390.0303 BASE PATCHING CONCRETE	TIE BARS	DRILLED DOWEL BARS	SAWING CONCRETE
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	233+14 WB	DRIVING	8		16	36
	235+37 WB	BOTH	16		32	60
	235+61 WB	PASSING	8		16	36
	236+25 WB	PASSING	8		16	36
	236+85 WB	BOTH	16		32	60
	237+36 WB	DRIVING	8		16	36
	237+47 WB	BOTH	16		32	60
	237+70 WB	PASSING	33	10	16	49
	237+95 WB	DRIVING	8		16	36
	238+09 WB	BOTH	16		32	60
	238+23 WB	PASSING	8		16	36
	239+86 WB	PASSING	8		16	36
	239+96 WB	DRIVING	8		16	36
	240+08 WB	PASSING	12		16	42
	240+08 WB	DRIVING	8		16	36
	240+84 WB	DRIVING	22	4	32	60
	246+31 WB	PASSING	8		16	36
	246+45 WB	PASSING	8		16	36
	249+00 WB	BOTH	16		32	60
	250+00 WB	PASSING	8		16	36
	250+81 WB	PASSING	8		16	36
	250+96 WB	PASSING	8		16	36
	251+07 WB	PASSING	8		16	36
	254+59 WB	PASSING	8		16	36
	255+35 WB	PASSING	8		16	36
	255+48 WB	PASSING	8		16	36
	255+86 WB	PASSING	8		16	36
	256+74 WB	PASSING	8		16	36
	257+81 WB	DRIVING	3		16	29
	258+08 WB	PASSING	8		16	36
	258+21 WB	PASSING	8		16	36
	259+33 WB	PASSING	8		16	36
	264+92 WB	PASSING	8		16	36
	266+05 WB	PASSING	8		16	36
	268+09 WB	DRIVING	8		16	36
	268+48 WB	PASSING	8		16	36
	268+58 WB	PASSING	8		16	36
	268+92 WB	PASSING	8		16	36
	269+10 WB	PASSING	8		16	36
	269+22 WB	PASSING	8		16	36
	269+73 WB	PASSING	8		16	36
	269+83 WB	BOTH	16		32	60
CONTINUED		SUBTOTALS	425	14	784	1,692

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

LANE

LOCATION

PASSING

PASSING

BOTH

PASSING

BOTH

PASSING

PASSING

BOTH

BOTH

BOTH

BOTH

DRIVING

BOTH

BOTH

PASSING

BOTH

PASSING

PASSING

PASSING

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LANE

LANE

SUBTOTALS

CATEGORY

STATION

269+97 WB

270+16 WB

270+35 WB

270+80 WB

270+98 WB

271+08 WB

271+22 WB

271+40 WB

271+60 WB

271+72 WB

271+86 WB

272+04 WB

272+22 WB

272+32 WB

272+46 WB

272+64 WB

272+76 WB

272+88 WB

273+10 WB

273+27 WB

273+70 WB

273+91 WB

274+01 WB

274+15 WB

274+72 WB

20+61 SW 21+00 SW

21+41 SW

21+62 SW

21+72 SW

21+81 SW

22+01 SW

22+21 SW

22+41 SW

22+82 SW

23+82 SW

24+02 SW

24+41 SW

24+61 SW

24+61 SW

24+81 SW

25+01 SW

CONTINUED

PASS/DRIVE BASE PATCHING

390.0303

CONCRETE

SY

8

8

16

8

16

8

8

16

16

16

16

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16

16

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16

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11

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16

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8

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8

10

10

19

10

10

10

10

10

10

6

10

5

10

10

10

470

416.0610 416.0620

DRILLED DRILLED

BARS

EACH

16

16

32

16

32

16

16

32

32

32

32

16

32

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16

32

16

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16

16

16

16

800

42

1,894

TIE

BARS

EACH

2

5

4

2

10

4

4

4

4

4

4

2

4

2

4

4

65

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

416.0610 416.0620

690.0250

				410.0010	416.0620	690.0250
			390.0303	DRILLED	DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	25+21 SW	LANE	10	4	16	42
	25+84 SW	LT	8	5		35
	26+21 SW	LANE	10	4	16	42
	26+42 SW	LANE	10	4	16	42
	26+81 SW	LANE	10	4	16	42
	27+02 SW	LANE	10	4	16	42
	27+21 SW	LANE	10	4	16	42
	27+42 SW	LANE	10	4	16	42
	27+86 SW	LANE	19	6	16	53
	28+48 SW	LT	9	5		36
	28+62 SW	LANE	10	4	16	42
	28+82 SW	LANE	10	4	16	42
	29+01 SW	LANE/RT	15	2	16	58
	29+19 SW	RT	8	2		33
	29+32 SW	LANE	8	4		40
	30+56 NW	RT TURN LANE	71	91		8
	30+56 NW	RT TURN LANE	13	9		16
	31+42 NW	RT	21	12		63
	31+54 NW	LT	14	2		93
	31+78 NW	RT	5	2		27
	32+20 NW	LT	4	2		26
	32+41 NW	LANE	13	2	16	50
	32+58 NW	LT	7	2		31
	32+63 NW	RT	10	2		42
	32+76 NW	LT	5	2		28
	33+00 NW	LANE	10	4	16	42
	33+22 NW	RT	3	2		20
	33+45 NW	LT	69	37		170
	33+42 NW	RT	3	2		20
	34+01 NW	LANE	10	4	16	42
	34+21 NW	LANE	10	4	16	42
	34+36 NW	LT	8	3		34
	34+61 NW	LANE	10	4	16	42
	34+80 NW	LANE	10	4	16	42
	34+97 NW	LT	7	2		31
	35+02 NW	LANE/RT	13	2	16	50
	35+21 NW	LANE	10	4		42
	35+57 NW	LT	5	2		27
	35+85 NW	LT	23	12		68
	36+22 NW	RT	3	2		20
	36+38 NW	LT	5	2		27
	37+21 NW	RT	3	2		20
CONTINUED		SUBTOTALS	521	278	288	1,756

HWY: USH 10 SHEET: PROJECT NO: 1500-34-71 COUNTY: MANITOWOC MISCELLANEOUS QUANTITIES Ε

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

						**
				416.0610	416.0620	690.0250
			390.0303	DRILLED	DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	37+68 NW	LT	24	12		68
	39+39 NW	LANE	10	4	16	42
	39+58 NW	LANE	10	4	16	42
	40+22 NW	LANE	16	7	16	49
	41+20 NW	RT	2	2		19
	41+40 NW	RT	2	2		19
<u> </u>	39+28 SE	RT	9	5		37

39+64 SE RT 11 40 5 3 39+81 SE LT 2 20 39+86 SE RT 3 32 RT 40+14 SE 25 2 80 40+41 SE RT 5 27 2 41+23 SE RT 5 2 27 41+46 SE RT 11 5 41 41+78 SE RT9 3 35 RT 42+25 SE 47 14 6 RT 42+43 SE 5 2 28 43+17 SE RT 7 2 32 43+43 SE RT 8 33 3 43+57 SE RT 6 2 31 43+79 SE LANE 12 2 49 16 43+98 SE RT 3 32 44+37 SE RT 6 3 30 44+61 SE RT 6 3 32 RT 37 45+01 SE 9 4 45+18 SE RT 10 2 39 45+22 SE LANE/RT 10 2 42 16 45+42 SE RT 6 29 45+43 SE LANE 13 50 16 45+63 SE RT 5 2 26 45+80 SE LANE/LT 13 2 50 16 46+21 SE LANE/LT 13 2 50 16 46+61 SE LANE 10 4 16 42 2 46+81 SE LT 3 20 46+86 SE RT 8 3 33 RT 47+05 SE 10 4 16 28 47+34 SE RT 3 32 47+93 SE RT 5 28 47+96 SE LANE 23 12 16 49 48+00 SE LT 3 14

RT

RT

SUBTOTALS

2

132

176

6

2

374

48+31 SE

48+60 SE

CONTINUED

416.0610 416.0620 690.0250 390.0303 DRILLED DRILLED SAWING

			390.0303	DRILLED	DRILLED	SAWING
		PASS/DRIVE	BASE PATCHING	TIE	DOWEL	CONCRETE
		LANE	CONCRETE	BARS	BARS	
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	48+72 SE	LANE	10	4		42
	48+91 SE	LANE/LT	15	2	16	58
	49+11 SE	LANE	10	4	16	42
	49+34 SE	LT	6	2		29
	50+78 NE	LANE	10	4	16	42
	51+24 NE	LANE	15	4	16	49
	51+36 NE	LT	5	2		28
	51+63 NE	LANE	9	4	16	41
	51+84 NE	LT	4	2		23
	52+40 NE	LANE	10	4	16	42
	52+80 NE	LANE	10	4	16	42
	53+42 NE	RT	5	2		28
	53+59 NE	LANE	10	4	16	42
	54+00 NE	LANE	10	4	16	42
	54+21 NE	RT	5	2		28
	54+82 NE	RT	5	2		28
	55+17 NE	LT	3	2		20
	55+22 NE	RT	5	2		28
	55+39 NE	LT	3	2		20
	55+43 NE	RT	5	2		28
	55+82 NE	RT	5	2		28
	56+00 NE	LANE	10	4	16	42
	56+21 NE	RT	5	2		28
	56+41 NE	RT	7	2		32
	57+22 NE	RT	5	2		28
	57+39 NE	LT	3	2		20
	57+42 NE	RT	5	2		28
	57+63 NE	LANE/RT	15	2	16	48
	58+00 NE	LT	3	2		20
	58+02 NE	RT	5	2		28
	58+20 NE	LANE	10	4	16	42
	58+38 NE	LT	3	2		20
	58+57 NE	LT	3	2		20
	58+62 NE	RT	5	2		28
	58+77 NE	LT	3	2		20
	58+83 NE	RT	5	2		28
	59+00 NE	LT	3	2		20
	59+02 NE	RT	5	2		28
	59+17 NE	LT	3	2		20
	59+22 NE	RT	5	2		28
	59+37 NE	LT	3	2		20
	59+42 NE	RT	5	2		28
CONTINUED		SUBTOTALS				

SHEET: PROJECT NO: 1500-34-71 HWY: USH 10 COUNTY: MANITOWOC MISCELLANEOUS QUANTITIES Ε

30

20

1,511

|3

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CONCRETE PAVEMENT REPAIR AND BASE PATCHING (CONTINUED)

**

		PASS/DRIVE LANE	390.0303 BASE PATCHING CONCRETE	416.0610 DRILLED TIE BARS	416.0620 DRILLED DOWEL BARS	690.0250 SAWING CONCRETE
CATEGORY	STATION	LOCATION	SY	EACH	EACH	LF
	59+58 NE	LT	3	2		20
	59+78 NE	LT	3	2		20
	60+00 NE	LT	3	2		20
	60+21 NE	RT	5	2		28
	60+38 NE	LT	3	2		20
	60+42 NE	RT	5	2		28
	60+58 NE	LT	3	2		20
	60+98 NE	RT	73	40		178
	UNDISTRIBUTED		100	213	200	200
	FROM CURB AND GUTTER			1827		
		SUBTOTALS	197	2,094	200	534
		TOTAL	5,840	3,010	8,145	21,310

^{**} SEE SAWING CONCRETE ITEM FOR PROJECT TOTALS

ASPHALTIC FLUMES

		465.0315 ASPHALTIC FLUMES
CATEGORY	STATION	SY
0010	NW RADIUS OF SCHISEL AND USH 10	80
	SW RADIUS OF MICHIGAN AND USH 10	80
	SE RADIUS OF MICHIGAN AND USH 10	45
	TOTAL —	205

**USE SEED, FERTILIZER, AND MULCH FOR RESTORATION. SEE EROSION CONTROL QUANTITES

ASPHALTIC SURFACE

			465.0105 ASPHALTIC SURFACE	465.0110 ASPHALTIC SURFACE PATCHING
CATEGORY	STATION	LOCATION	TON	TON
0010	SCHISEL CT MICHIGAN AVE PROJECT LIMITS	EB/WB WEDGING LONGITUDINAL JOINT REPAIR	87 127	 173
	PROJECT LIMITS UNDISTRIBUTED	CLEAN AND PATCH	 31	44 28
		TOTAL =	245	245

HMA PAVEMENT

			THICKNESS	460.1103 HMA PAVEMENT TYPE E-3	455.0105 ASPHALTIC MATERIAL PG58-28
CATEGORY	STATION - STATION	LOCATION	INCH	TON	TON
0010	190+00-227+35	EB/WB LOWER	VAR	1,900	105
0010	229+11-229+23	EB/WB LOWER	VAR	0	0
	229+23-230+23	EB/WB LOWER	VAR	60	3
	230+23-231+03	EB/WB LOWER	VAR	60	3
	231+03-237+17	EB/WB LOWER	VAR	400	22
	237+17-237+97	EB/WB LOWER	VAR	60	3
	237+97-238+97	EB/WB LOWER	VAR	60	3
	238+97-239+97	EB/WB LOWER	VAR	60	3
	239+97-240+73	EB/WB LOWER	VAR	40	2
	243+80-244+20	EB/WB LOWER	VAR	40	2
	244+20-245+00	EB/WB LOWER	VAR	60	3
	245+00-267+87	EB/WB LOWER	VAR	1,460	80
	267+87-268+87	EB/WB LOWER	VAR	60	3
	268+87-269+87	EB/WB LOWER	VAR	60	3
	269+87-275+00	EB/WB LOWER	VAR	260	14
_	190+00-218+00 WB	UPPER LAYER	1.75	880	48
	190+00-218+00 EB	UPPER LAYER	1.75	880	48
	218+00-227+30 WB	UPPER LAYER	1.75	300	17
	218+00-227+30 EB	UPPER LAYER	1.75	300	17
	229+00-241+00 WB	UPPER LAYER	1.75	400	22
	229+09-240+73 EB	UPPER LAYER	1.75	380	21
	244+10-248+00 WB	UPPER LAYER	1.75	120	7
	243+80-248+00 EB	UPPER LAYER	1.75	140	8
	248+00-275+00 WB	UPPER LAYER	1.75	840	46
	248+00-275+00 EB	UPPER LAYER	1.75	840	46
	192+00-197+00 WB	TURN LANE AND MEDIAN	1.75	140	8
	196+50-199+50 EB	TURN LANE AND MEDIAN	1.75	80	4
	203+50EB-208+50WB	TURN LANES AND MEDIAN	1.75	140	8
	271+95-275+00EB	TURN LANE	1.75	5	0
	NW AND SW RADIU	JS EDGE OF USH10/CTY R	1.75	5	0
	RAMP SW		3.5	740	41
	RAMP SE		3.5	760	42
	RAMP NW		3.5	860	47
	RAMP NE		3.5	820	45
	SCHISEL CT				
	MICHIGAN AVE				
			TOTAL	13,210	727

TACK COAT

			455.0605
			TACK COAT
CATEGORY	LOCATION	LAYER	GAL
0010	USH 10	LOWER	1305
	RAMP SW	LOWER	90
	RAMP SE	LOWER	95
	RAMP NW	LOWER	105
	RAMP NE	LOWER	100
	SCHISEL CT	LOWER	10
	MICHIGAN AVE	LOWER	20
	USH 10	UPPER	1305
	RAMP SW	UPPER	90
	RAMP SE	UPPER	95
	RAMP NW	UPPER	105
	RAMP NE	UPPER	100
	SCHISEL CT	UPPER	10
	MICHIGAN AVE	UPPER	20
		TOTAL	3450

CONCRETE CURB & GUTTER AND SIDEWALK

601.0551

601.0557

SPV.0090.02

* SLOPE NOSE REMOVAL QUANTITIES INCLUDED WITH SIDEWALK REMOVAL

^{***} ADDITIONAL QUANTITIES LISTED UNDER SAWING CONCRETE

_						*	**	601.0409	CONCRETE	CONCRETE	SPV.0090.01	CONCRETE		620.0300	
						204.0155	416.0610	CONCRETE	CURB & GUTTER	CURB & GUTTER	CONCRETE	CURB & GUTTER		CONCRETE	***
					204.0150	REMOVING	DRILLED	CURB & GUTTER	4-INCH SLOPED	4-INCH SLOPED	CURB & GUTTER	4-INCH SLOPED	602.0405	MEDIAN	690.0250
					REMOVING	CONCRETE	TIE	30 INCH	36 INCH	36 INCH	30 INCH	36-INCH	CONCRETE	SLOPED	SAWING
					CURB & GUTTER	SIDEWALK	BARS	TYPE A	TYPE A	TYPE D	TYPE A (MOD)	TYPE A (MOD)	SIDEWALK 4"	NOSE	CONCRETE
CAT	EGORY	STATION	- STATION	LOCATION	LF	SY	EA	LF	LF	LF	LF	LF	SF	SF	LF
	0010														
1		189+93	190+51	EB MEDIAN	58		21	58							63
		191+44	192+32	EB MEDIAN	88		31	88							93
		192+32	192+48	EB MEDIAN	16		7					16			21
		192+37	192+51	WB MEDIAN	14		7					14			19
		193+07	193+14	WB LT	7		4	7							12
		193+43	193+86	WB LT	43		16	43							48
		194+68	194+74	WB LT	6		4	6							11
		194+99	195+09	WB LT	10		5	10							15
		195+35	195+45	WB LT	10		5	10							15
		197+06	198+28	WB MEDIAN	122		43	122							127
		198+28	198+43	WB MEDIAN	15		7					15			20
		198+28	198+43	EB MEDIAN	15		7					15			20
		199+15	199+23	WB MEDIAN	8		5					8			13
		199+12	199+36	EB MEDIAN	24		10					24			29
		199+36	199+70	EB MEDIAN	34		13	34							39
		203+02	203+18	EB RT	16		7	16							21
		203+33	203+96	EB RT	63		23	63							68
		205+25	205+40	WB MEDIAN	15		7					15			20
		205+25	205+39	EB MEDIAN	14		7					15			19
		206+81	207+20	EB MEDIAN	39		15	39							44
		209+48	209+60	EB RT	12		6	12							17
		209+66	210+14	WB LT	48		18					48			53
l		209+88	210+13	WB MEDIAN	25		10					25			30
		209+87	210+12	EB MEDIAN	25		10					25			30
		209+87	210+12	EB RT	25		10					25			30
l		211+88	212+13	WB LT	25		10					25			30
		213+87	214+12	WB LT	25		10					25			30
		213+87	214+12	WB MEDIAN	25		10					25			30
		213+88	214+13	EB MEDIAN	25		10					25			30
		213+88	214+13	EB RT	25		10					25			30
		216+02	216+11	EB MEDIAN	9		5	9							14
		217+88	218+33	WB LT	45		10					25			50
		217+88	218+33	WB MEDIAN	45 45		10					25			50
		217+88	218+33	EB MEDIAN	45 45		10					25			50
		217+88	218+33	EB RT	45		10					25			50
		221+88	222+13	WB LT	25		10					25			30
		221+88	222+13	WB MEDIAN	25		10					25			30
		221+88	222+13	EB MEDIAN	25		10					25			30
		221+89	222+14	EB RT	25		10					25			30
		226+62	227+13	WB MEDIAN	51		19					51			56
	ITINILIED	226+88	227+13	WB LT	25		10					25			30
CON	ITINUED			SUBTOTALS	1242	0	470	517	0	0	0	646	0	0	1447
PROJE	ECT NO: 1	1500-34-71		HWY: L	JSH 10	С	COUNTY: MA	ANITOWOC	MISCEL	LANEOUS QUAI	NTITIES			SHEET:	E

^{**} ADDITIONAL QUANTITIES LISTED UNDER CONCRETE PAVEMENT REPAIR AND BASE PATCHING

CONCRETE CURB & GUTTER AND SIDEWALK (CONTINUED)

601.0551

601.0557

SPV.0090.02

^{***} ADDITIONAL QUANTITIES LISTED UNDER SAWING CONCRETE

ADDITIONAL	QUANTITIES	LIGITED ONDE	R SAWING CONC		* 204.0155	** 416.0610	601.0409 CONCRETE	CONCRETE CURB & GUTTER		SPV.0090.01 CONCRETE	CONCRETE CURB & GUTTER		620.0300 CONCRETE	***
				204.0150 REMOVING	REMOVING CONCRETE	TIE	CURB & GUTTER 30 INCH	36 INCH	4-INCH SLOPED 36 INCH	CURB & GUTTER 30 INCH	36-INCH	602.0405 CONCRETE	MEDIAN SLOPED	690.0250 SAWING
0.177.000\/		074701		CURB & GUTTER		BARS	TYPE A	TYPE A	TYPE D	TYPE A (MOD)	TYPE A (MOD)	SIDEWALK 4"	NOSE	CONCRETE
CATEGORY	STATION	- STATION	LOCATION	LF	SY	EA	LF	LF	LF	LF	LF	SF	SF	LF
	224+54	227+38	EB MEDIAN	284		97				284				289
	225+14	227+43	EB RT	229		78				229				234
	228+95	231+21	WB LT	226		77				226				231
	228+97	231+75	WB MEDIAN	278		95				278				283
	229+11	229+36	EB MEDIAN	25		10					25			30
	230+85	231+10	EB RT	25		10					25			30
	233+12	233+37	WB MEDIAN	25		10					25			30
	235+37	235+62	WB LT	25		10					25			30
	235+36	235+61	WB MEDIAN	25		10					25			30
	235+36	235+61	EB MEDIAN	25		10					25			30
	235+04	235+61	EB RT	57		21					57			62
	237+61	237+86	WB MEDIAN	25		10					25			30
	239+87	240+12	WB LT	25		10					25			30
	239+87	240+89	WB MEDIAN	102		36					102			107
	238+15	240+81	EB MEDIAN	266		91				266				271
	238+39	240+67	EB RT	228		78				228				233
	240+64	240+89	WB LT	25		10					25			30
	240+04 244+17	240+69	WB LT	232		79				232				237
	244+17	246+70	WB MEDIAN	266		91				266				271
	244+04	246+70 244+64	EB MEDIAN								 2E			
	244+39 244+39	244+64 244+64	EB RT	25		10					25			30
			WB LT	25		10					25			30
	248+36	248+61		25		10					25			30
	248+37	248+62	EB MEDIAN	25		10					25			30
	251+87	252+12	WB LT	25		10					25			30
	251+87	252+12	WB MEDIAN	25		10					25			30
	251+86	252+19	EB MEDIAN	33		13					33			38
	251+86	252+14	EB RT	28		11					28			33
	253+63	253+88	WB LT	25		10					25			30
	255+39	255+64	WB LT	25		10					25			30
	255+39	255+64	EB MEDIAN	25		10	<u></u>				25			30
	259+83	259+90	EB RT	7		4	7							12
	261+40	261+65	WB MEDIAN	25		10					25			30
	261+39	261+64	EB RT	25		10					25			30
	264+88	265+13	WB LT	25		10					25			30
	264+88	265+13	WB MEDIAN	25		10					25			30
	264+88	265+13	EB MEDIAN	25		10					25			30
	264+87	265+12	EB RT	25		10					25			30
	267+26	267+51	EB RT	25		10					25			30
	267+98	268+23	WB MEDIAN	25		10					25			30
	267+98	268+23	EB MEDIAN	25		10					25			30
	268+26	268+51	WB LT	25		10					25			30
	268+19	268+44	EB RT	25		10				25				30
CONTINUED			SUBTOTALS	2961	0	1071	7	0	0	2034	920	0	0	3171
TEOT NO. 44	500-34-71		HWY: US	SH 10	COL	JNTY: MAN	NTOWOC:	MISCELL	ANEOUS QUAN	TITIES			SHEET:	

^{*} SLOPE NOSE REMOVAL QUANTITIES INCLUDED WITH SIDEWALK REMOVAL

^{**} ADDITIONAL QUANTITIES LISTED UNDER CONCRETE PAVEMENT REPAIR AND BASE PATCHING

SPV.0090.02

CONCRETE CURB & GUTTER AND SIDEWALK (CONTINUED)

601.05551

601.0557

* SLOPE NOSE REMOVAL QUANTITIES INCLUDED WITH SIDEWALK REMOVAL

*** ADDITIONAL QUANTITIES LISTED UNDER SAWING CONCRETE

ADDITIO	AL GOLIVIIILO	LICTLD CIVE	DEIN OANNING CONO					001.00001	001.0007		01 0.0000.02			
					*	**	601.0409	CONCRETE	CONCRETE	SPV.0090.01	CONCRETE		620.0300	
					204.0155	416.0610	CONCRETE	CURB & GUTTER	CURB & GUTTER	CONCRETE	CURB & GUTTER		CONCRETE	***
				204.0150	REMOVING	DRILLED	CURB & GUTTER	4-INCH SLOPED	4-INCH SLOPED	CURB & GUTTER	4-INCH SLOPED	602.0405	MEDIAN	690.0250
				REMOVING	CONCRETE	TIE	30 INCH	36 INCH	36 INCH	30 INCH	36-INCH	CONCRETE	SLOPED	SAWING
				CURB & GUTTER	R SIDEWALK	BARS	TYPE A	TYPE A	TYPE D	TYPE A (MOD)	TYPE A (MOD)	SIDEWALK 4"	NOSE	CONCRETE
CATEGORY	STATION	- STATION	LOCATION	LF	SY	EA	LF	LF	LF	LF	LF	SF	SF	LF
	269+87	270+12	WB LT	25		10					25			30
	271+87	272+12	WB LT	25		10					25 25			30
	271+88	272+13	WB MEDIAN	25		10					25 25			30
	271+87	272+12	EB MEDIAN	25		10					25			30
	271+88	272+13	EB RT	25		10					25			30
	30+76	31+06	NW RAMP	30		12	30							35
	30+59	30+64	NW RAMP	12		6	12							17
	50+85	50+99	NE RAMP	60		22					60			65
	50+71	50+99	NE RAMP	30		12	30							35
	49+42	49+75	SE RAMP	50		19	50							55
	49+65	49+73	SE RAMP MEDIAN			12	31							36
	198+48	49+62	SE RAMP/USH10			18					48			53
	SCHISEL CT	USH 10	EAST	20		23		17	45					25
	SCHISEL CT	USH 10	WEST	22		34		22	74					27
	MICHIGAN AVE	USH 10	EAST	7		40		21	93					12
	MICHIGAN AVE	USH 10	WEST	11		40		15	98					16
	31+06	31+06	NW RAMP		7								64	32
	192+42	192+55	USH 10 MED		14							63	60	20
	198+36	198+48	USH 10 MED		14							48	80	17
	199+08	199+21	USH 10 MED		13							51	67	22
	205+33	205+45	USH 10 MED		12							46	62	19
			UNDISTRIBUTED	11	5		18			31	36	7	7	
			SUBTOTALS	457	65	289	171	75	310	31	269	215	340	636
			TOTAL	4660	65	1830	695	75	310	2,065	1835	215	340	5,254
					*	**								***

^{**} ADDITIONAL QUANTITIES LISTED UNDER CONCRETE PAVEMENT REPAIR AND BASE PATCHING

GRADING, SHAPING FINISHING FOR CURB AND GUTTER

SPV.0090.05 GRADING SHAPING FINIHSING INTERSECTION

CURB AND GUTER STATION - STATION CATEGORY LOCATION LF SCHISEL CT 60 USH 10 0010 EAST SCHISEL CT **USH 10** WEST 94 MICHIGAN AVE **USH 10** EAST 112 MICHIGAN AVE USH 10 WEST 112 TOTAL 380

STORM SEWER PIPES

608.0312 STORM SEWER PIPE REINFORCED CONCRETE

		TOTAL	405
	602	1042	60
	601	602	70
	501	502	6
	401	1035	30
	301	302	9
	201	202	177
	102	201	13
0010	101	201	40
CATEGORY	STRUCTURE	STRUCTURE	LF
	FROM	TO	12-INCH
			CL III

STORM SEWER STRUCTURES

CATEGORY	STR NO	STATION	OFFSET	611.2004 MANHOLES 4-FT DIA EACH	611.3230 INLETS 2 x 3 FT EACH	611.0430 RECONSTRUCT INLET EACH	611.0530 MANHOLE COVER TYPE J EA	611.0600 INLET COVERS TYPE A EACH	611.0624 INLET COVERS TYPE H (LOW) EACH	611.0627 INLET COVERS TYPE HM EACH	611.8110 ADJUSTING MANHOLE COVERS EACH		650.4000 CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.02 RECONNECT EXISITNG STORM LATERAL EACH
0010	1000	192+48	2' LT			1				1				
	1001	192+50	9' LT			1				1				
	1002	198+42	15.4' LT			1				1				
	1003	198+43	22' LT			1				1				
	1004	198+43	64.6' LT			1				1				
	1005	198+52	14.3' LT							 1	1			
	1006	198+61	26' RT			1				1				
	1007	199+28	11.2' LT			1				1				
	1008	205+34	54' LT			1				1				
	1009	205+39	20.4' LT			1				1				
	1010	205+39	12' LT			1				1				
	1011	205+39	26' RT			1				1				
	1012	210+00	54' LT			1				1				
	1013	210+00	26' LT			1				1				
	1014	210+00	2' LT			1				1				
	1015	210+00	26' RT			1				1				
	1016	212+00	54' LT			1				1				
	1017	214+00	54' LT			1				1				
	1018	214+00	26' LT			1				1				
	1019	214+00	2' LT			1				1				
	1020	214+00	26' RT			1				1				
	1021	218+00	54' LT			1				1				
	1022	218+00	26' LT			1				1				
	1023	218+00	2' LT			1				1				
	1024	218+00	26' RT			1				1				
	1025	222+00	54' LT			1				1				
	1026	222+00	26' LT			1				<u>1</u>				
	1027	222+01	2' LT			1				1				
	1028	222+01	26' RT			1				1				
	1029	227+00	54' LT			1				1				
	1030	227+00	26' LT			1				1				
	1031	227+00	2' LT			1			1					
	1032	227+00	26' RT			1			1					
	1033	231+00	26' LT			1			1					
	1034	231+00	26' RT			1				1				
	1035	235+49	54' LT			1				1				
	1036	235+49	26' LT			1				1				
	1037	235+49	2' LT			1				1				
	1038	235+48	26' RT			1 DEMOVE				1				
	1039	239+11	26' RT			REMOVE						1		
	1040	240+00	54' LT			1				1				
CONTINUES	1041	240+00	26' LT			1				1				
CONTINUED		SUBTOTAL		0	0	40	0	0	3	37	1	1	0	0

STORM SEWER STRUCTURES (CONTINUED)

CATEGORY	STR NO	STATION	OFFSET	611.2004 MANHOLES 4-FT DIA EACH	611.3230 INLETS 2 x 3 FT EACH	611.0430 RECONSTRUCT INLET EACH	611.0530 MANHOLE COVER TYPE J EA	611.0600 INLET COVERS TYPE A EACH	611.0624 INLET COVERS TYPE H (LOW) EACH	611.0627 INLET COVERS TYPE HM EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.9710 SALVAGED INLET COVERS EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.02 RECONNECT EXISITNG STORM LATERAL EACH
	1042	239+99	2' LT			4			4					
	1042 1043	239+99	26' RT			1			1					
	1044	240+76	54' LT			1			<u>'</u> 	1				
	1045	240+76	26' LT			<u>.</u> 1				1				
	1046	243+86	2' LT			1		1						
	1047	244+51	54' LT			1			1					
-	1048	244+51	26' LT			1			1					
	1049	244+51	2' LT			1				1				
	1050	244+51	26' RT			1				1				
	1052	248+49	54' LT			1				1				
	1053	248+49	2' LT			1				1				
	1054	252+00	54' LT			1				1				
	1055	252+00	26' LT			1				1				
	1056	252+00	2' LT			1				1				
	1057	252+00	26' RT			1				1				
	1059	253+75	54' LT			1				1				
	1060	255+51	54' LT			1				1				
	1061	255+51	2' LT			1				1				
	1062	261+53	26' LT			1				1				
	1063	261+53	26' RT			1				1				
	1064	265+00	54' LT			1				1				
	1065	265+00	26' LT			1				1				
	1066	265+00	2' LT			1				1				
	1067	265+00	26' RT			1				1				
	1068	267+38	26' RT			1				1				
	1069	268+10	26' LT			1				1				
	1070	268+10	2' LT			1				1				
	1072	268+31	26' RT			1		1				FROM 1039		
	1073	268+38	54' LT			1				1				
	1075	270+00	54' LT			1				1				
	1076	272+00	54' LT			1				1				
	1077	272+00	26' LT			1				1				
	1078	272+00	3' LT			1				1				
	1079	272+00	26' RT			1				1				
	101	229+23	54' LT		1				1				1	
	201	229+23	16' LT	1			1						1	
	102	229+23	2' LT		1					1			1	
	202	231+00	14' LT	1			1						1	2
	301	233+25	26' LT		11					1			1	
	302	233+25	16' LT	1			1						1	2
	401	235+25	26' RT		1					1			1	
	501	237+75	26' LT		1					1			1	
CONTINUED		SUBTOTAL		3	5	34	3	2	5	32	0	0	8	4

STORM SEWER STRUCTURES (CONTINUED)

							611.0530		611.0624				650.4000	
							MANHOLE	611.0600	INLET	611.0627	611.8110	611.9710	CONSTRUCTION	SPV.0060.02
				611.2004	611.3230	611.0430	COVER	INLET	COVERS	INLET	ADJUSTING	SALVAGED	STAKING	RECONNECT
				MANHOLES	INLETS	RECONSTRUCT	TYPE	COVERS	TYPE H	COVERS	MANHOLE	INLET	STORM	EXISITNG
	STR			4-FT DIA	2 x 3 FT	INLET	J	TYPE A	(LOW)	TYPE HM	COVERS	COVERS	SEWER	STORM LATERAL
CATEGORY	NO	STATION	OFFSET	EACH	EACH	EACH	EA	EACH	EACH	EACH	EACH	EACH	EACH	EACH
	502	237+75	20' LT	1			1						1	2
	601	238+70	26' RT		1				1				1	
	602	239+35	26' RT		1				1				1	·
-	SUBTOTA	AL .		1	2	0	1	0	2	0	0	0	3	2
	TOTAL			4	7	74	4	2	10	69	1	1	11	6

BEAM GUARD

04 75 0000		LOGATION	204.0165 REMOVING GUARDRAIL	614.0305 STEEL PLATE BEAM GUARD CLASS A
CATEGORY	STATION TO STATION	LOCATION	LF	LF
0010	228+97 - 229+47	WB RT	50	50
		TOTAL	50	50

LANDMARK REFERENCE MONUMENTS

	LANDMAR	·K	621.0100 LANDMARK REFERENCE MONUMENTS	SPV.0060.01 REESTABLISH SECTION CORNER MONUMENTS	
CATEGORY	LOCATION	SECTIONS	EACH	EACH	REMARKS
0010	QUARTER CORNER SECTION CORNER	15/22 15/22/14/23	4 4	1 1	T19N R23E T19N R23E
		TOTAL	8	2	=

			<u>FINISI</u>	HING ITE	MS							FINISHING I	TEMS (CO	NTINUED)			
				005.04.00	629.0210	630.0120 SEEDING		SPV.0120.01 WATER FOR					005.0400	629.0210	630.0120 SEEDING		SPV.0120.01 WATER FOR
				625.0100		MIXTURE	CLASS I	SEEDED					625.0100		MIXTURE	CLASS I	SEEDED
	ODV	074701	LOCATION	TOPSOIL	TYPE B	NO. 20	TYPE B	AREAS	04 75 000	/ OTATION	OTATION	LOCATION	TOPSOIL	TYPE B	NO. 20	TYPE B	AREAS
CATEG	ORY STATION	- STATION	LOCATION	SY	CWT	LB	SY	MGAL	CATEGORY	STATION -	STATION	LOCATION	SY	CWT	LB	SY	MGAL
	•		COLUECEL OT MECT	00	4.0	0.54	00	0.0		004 00	000 44	ED DT	•	0.5	0.00	0	0.0
0010	U		SCHIESEL CT WEST	20	1.3	0.54	20	0.2		221+89	222+14	EB RT	8	0.5	0.23	8	0.2
4			SCHIESEL CT EAST	31	2.0	0.85	31	0.2		226+62	227+13	WB MEDIAN	17	1.1	0.46	17	0.2
			MICHIGAN AVE WEST	37	2.4	1.01	37	0.2		226+88	227+13	WB LT	8	0.5	0.23	8	0.2
			MICHIGAN AVE EAST	37	2.4	1.01	37	0.2		224+54	227+38	EB MEDIAN	95	6.0	2.56	95	0.2
	189+93	190+51	EB MEDIAN	19	1.2	0.52	19	0.2		225+14	227+43	EB RT	76	4.8	2.06	76	0.2
	191+44	192+32	EB MEDIAN	29	1.8	0.79	29	0.2		228+95	231+21	WB LT	75	4.7	2.03	75	0.2
	192+32	192+48	EB MEDIAN	5	0.3	0.14	5	0.2		228+97	231+75	WB MEDIAN	93	5.8	2.50	93	0.2
	192+37	192+51	WB MEDIAN	5	0.3	0.13	5	0.2		229+11	229+36	EB MEDIAN	8	0.5	0.23	8	0.2
	193+07	193+14	WB LT	2	0.1	0.06	2	0.2		230+85	231+10	EB RT	8	0.5	0.23	8	0.2
	193+43	193+86	WB LT	14	0.9	0.39	14	0.2		233+12	233+37	WB MEDIAN	8	0.5	0.23	8	0.2
	194+68	194+74	WB LT	2	0.1	0.05	2	0.2		235+37	235+62	WB LT	8	0.5	0.23	8	0.2
	194+99	195+09	WB LT	3	0.2	0.09	3	0.2		235+36	235+61	WB MEDIAN	8	0.5	0.23	8	0.2
	195+35	195+45	WB LT	3	0.2	0.09	3	0.2		235+36	235+61	EB MEDIAN	8	0.5	0.23	8	0.2
	197+06	198+28	WB MEDIAN	41	2.6	1.10	41	0.2		235+04	235+61	EB RT	19	1.2	0.51	19	0.2
	198+28	198+43	WB MEDIAN	5	0.3	0.14	5	0.2		237+61	237+86	WB MEDIAN	8	0.5	0.23	8	0.2
	198+28	198+43	EB MEDIAN	5	0.3	0.14	5	0.2		239+87	240+12	WB LT	8	0.5	0.23	8	0.2
	199+15	199+23	WB MEDIAN	3	0.2	0.07	3	0.2		239+87	240+89	WB MEDIAN	34	2.1	0.92	34	0.2
	199+12	199+36	EB MEDIAN	8	0.5	0.22	8	0.2		238+15	240+81	EB MEDIAN	89	5.6	2.39	89	0.2
	199+36	199+70	EB MEDIAN	11	0.7	0.31	11	0.2		238+39	240+67	EB RT	76	4.8	2.05	76	0.2
	203+02	203+18	EB RT	5	0.3	0.14	5	0.2		240+64	240+89	WB LT	8	0.5	0.23	8	0.2
	203+33	203+16	EB RT	21	1.3	0.14	21	0.2		244+17	246+49	WB LT	77	4.9	2.09	77	0.2
	205+25	205+40	WB MEDIAN	5	0.3	0.14	5	0.2		244+17	246+70	WB MEDIAN	89	5.6	2.39	89	0.2
	205+25	205+40	EB MEDIAN	5 5	0.3	0.14	5	0.2		244+04	240+70 244+64	EB MEDIAN	8	0.5	0.23	09	0.2
	205+25	205+39	EB MEDIAN	13		0.13	ວ 12				244+64 244+64	EB RT	0		0.23	8	
	200+61	207+20		13	0.8	0.33	13	0.2		244+39 248+36		WB LT	8	0.5			0.2
				4	0.3		4				248+61		0	0.5	0.23	8	
	209+66	210+14	WB LT	16	1.0	0.43	16	0.2		248+37	248+62	EB MEDIAN	0	0.5	0.23	0	0.2
	209+88	210+13	WB MEDIAN	8	0.5	0.23	8	0.2		251+87	252+12	WB LT	8	0.5	0.23	0	0.2
	209+87	210+12		8	0.5	0.23	8	0.2		251+87	252+12	WB MEDIAN	8	0.5	0.23	8	0.2
	209+87	210+12		8	0.5	0.23	8	0.2		251+86	252+19	EB MEDIAN	11	0.7	0.30	11	0.2
	211+88	212+13		8	0.5	0.23	8	0.2		251+86	252+14	EB RT	9	0.6	0.25	9	0.2
	213+87	214+12		8	0.5	0.23	8	0.2		253+63	253+88	WBLT	8	0.5	0.23	8	0.2
	213+87	214+12		8	0.5	0.23	8	0.2		255+39	255+64	WB LT	8	0.5	0.23	8	0.2
	213+88	214+13	EB MEDIAN	8	0.5	0.23	8	0.2		255+39	255+64	EB MEDIAN	8	0.5	0.23	8	0.2
	213+88	214+13		8	0.5	0.23	8	0.2		259+83	259+90	EB RT	2	0.1	0.06	2	0.2
	216+02	216+11	EB MEDIAN	3	0.2	0.08	3	0.2		261+40	261+65	WB MEDIAN	8	0.5	0.23	8	0.2
	217+88	218+33	WB LT	15	0.9	0.41	15	0.2		261+39	261+64	EB RT	8	0.5	0.23	8	0.2
	217+88	218+33	WB MEDIAN	15	0.9	0.41	15	0.2		264+88	265+13	WB LT	8	0.5	0.23	8	0.2
	217+88	218+33	EB MEDIAN	15	0.9	0.41	15	0.2		264+88	265+13	WB MEDIAN	8	0.5	0.23	8	0.2
	217+88	218+33	EB RT	15	0.9	0.41	15	0.2		264+88	265+13	EB MEDIAN	8	0.5	0.23	8	0.2
	221+88	222+13	WB LT	8	0.5	0.23	8	0.2		264+87	265+12	EB RT	8	0.5	0.23	8	0.2
	221+88	222+13	WB MEDIAN	8	0.5	0.23	8	0.2		267+26	267+51	EB RT	8	0.5	0.23	8	0.2
	221+88	222+13		8	0.5	0.23	8	0.2		267+98	268+23	WB MEDIAN	8	0.5	0.23	8	0.2
CONTIN			SUBTOTAL	506	32	14	506	8	CONTINUED			SUBTOTAL	996	63	27	996	8
			<u>, </u>						<u> </u>							la===	
PROJE	CT NO: 1500	-34-71	HW	/Y: USH 1	0	(COUNTY: M.	ANITOWOC		MISCELLA	ANEOUS Q	UANTITIES				SHEET:	

FINISHING ITEMS (CONTINUED)

CATEGORY	STATION -	· STATION	LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
	267+98	268+23	EB MEDIAN	8	0.5	0.23	8	0.2
	268+26	268+51	WB LT	8	0.5	0.23	8	0.2
	268+19	268+44	EB RT	8	0.5	0.23	8	0.2
	269+87	270+12	WB LT	8	0.5	0.23	8	0.2
	271+87	272+12	WB LT	8	0.5	0.23	8	0.2
	271+88	272+13	WB MEDIAN	8	0.5	0.23	8	0.2
	271+87	272+12	EB MEDIAN	8	0.5	0.23	8	0.2
	271+88	272+13	EB RT	8	0.5	0.23	8	0.2
	30+76	31+06	NW RAMP MED	10	0.6	0.27	10	0.2
	30+59	30+64	NW RAMP EAST	4	0.3	0.11	4	0.2
	50+79	50+99	NE RAMP WEST	20	1.3	0.55	20	0.2
	50+71	50+99	NE RAMP EAST	10	0.6	0.26	10	0.2
	49+62	49+63	SE RAMP WEST	16	1.0	0.44	16	0.2
	49+65	49+73	SE RAMP MEDIAN	11	0.7	0.29	11	0.2
	49+42	49+75	SE RAMP EAST	17	1.1	0.46	17	0.2
		FLUME	SCHIESEL CT WEST	7	0.4	0.19	7	0.2
		FLUME	MICHIGAN AVE WEST	7	0.4	0.19	7	0.2
		FLUME	MICHIGAN AVE EAST	7	0.4	0.19	7	0.2
			UNDISTRUBUTED	37	2.331	0.999	37	
			SUBTOTAL	213	13	6	213	4
			TOTAL	1,715	108	46	1,715	20

INLET PROTECTION

CATEGORY	STATION	OFFSET	STR NO	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH
0010	229+23	54' LT	101	1	1
	229+23	16' LT	201	1	<u> </u>
				1	
	229+23	2' LT	102	1	1
	231+00	14' LT	202	1	
	233+25	26' LT	301	1	1
	233+25	16' LT	302	1	
	235+25	26' RT	401	1	1
	237+75	26' LT	501	1	1
	237+75	20' LT	502	1	
	238+70	26' RT	601	1	1
	239+35	26' RT	602	1	
	UNDISTRIBUT	ΓED		4	9
				15	15

<u>RIPRAP</u>

	TOTAL	5	18
0010	240+00 LT	5	18
CATEGORY	LOCATION	CY	SY
		HEAVY	TYPE HR
		RIPRAP	FABRIC
		606.0300	GEOTEXTILE
			645.0120

MOBILIZATIONS EROSION CONTROL

		628.1905 MOBILIZATION EROSION CONTROL	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL
CATEGORY	PROJECT	EACH	EACH
0010	1500-34-71	4	2
	TOTAL	4	2

REMOVAL & ERECTION OF PERMANENT SIGNING, TYPE II

			1	1					T		
				637. 0202		634. 0614	634. 0616	634. 0618	638. 2602		
					SI GNS					REMOVI NG	
				SI GNS	REFLECTI VE	POSTS	POSTS		REMOVI NG		
				REFLECTI VE		WOOD	WOOD	WOOD	SI GNS	SI GN	
SI GN		SIGN		TYPE II	TYPE II	4X6X14	4X6X16	4X6X18	TYPE II	SUPPORTS	
NO.	LOCATI ON	CODE	WXH	S. F.	S. F.	EACH	EACH	EACH	EACH	EACH	REMARKS
1	CTH JJ, W. OF I-43	J1-4	96" X 39"	26. 00		1	1		8	2	JCT I-43, JCT USH 10, JCT STH 42, END CTH JJ, SEE PLAN SHEET
2	II.	D1-1	72" X 15"	7. 50		1	1		1	2	SEE SIGN DETAIL SHEET
3	ıı		36" X 24"	6. 00					1		MOUNT ON BACKSIDE OF SIGN #1A
4	п	D1-72	120" X 60"	50. 00			2	1			SEE SIGN DETAIL SHEET
5	п	W4-2L	36" X 36"	9. 00		1			1	1	
6	п	R5-1A	36" X 24"	6. 00					1		MOUNT ON BACKSIDE OF SIGN #5
7	п	W6-2	36" X 36"	9. 00			1		1	1	
8	I-43 SB OFF-RAMP TO USH 10 / STH 42	R1-1	36" X 36"	7. 46			1		1	1	
9	I-43 SB OFF-RAMP SPLITTER ISLAND	R5-1	30" X 30"	6. 25					1		MOUNT ON BACKSIDE OF SIGN #8
10	п	R6-2R	24" X 30"	5. 00		1			1	1	
11	п	W12-1D	24" X 24"	4. 00		1			1	1	
12	I-43 SB OFF-RAMP TO USH 10 / STH 42	J3-3	72" X 57"	28. 50			1	1	9	2	EAST USH 10, NORTH STH 42, WEST CTH JJ, SEE PLAN SHEET
13	п	J3-1							3	1	
14	п	R5-1A	36" X 24"	6. 00		1			1		MOUNT ON BACKSIDE OF SIGN #11
15	п	R1-1	36" X 36"	7. 46		1			1	1	
16	п	R1-1	30" X 30"	6. 25		1			1	1	
17	п	D9-2	24" X 24"	4. 00			1		1	1	
18	п	M6-1	21" X 21"	3. 06					1		MOUNT BELOW SIGN #15
19	п	R5-1	30" X 30"	6. 25					1		MOUNT ON BACKSIDE OF SIGN #15
20	I-43 SB OFF-RAMP SPLITTER ISLAND	R6-2L	24" X 30"	5. 00					1		MOUNT ON SIDE OF SIGN #13
21	USH 10 / STH 42, SB OFF-RAMP INTERSECTION	R4-7	24" X 30"	5. 00		1			1	1	
22	п	J2-2	48" X 57"	19. 00		1			6	1	SOUTH I-43, SOUTH STH 42, SEE PLAN SHEET
23	п	R6-2L	24" X 30"	5. 00		1			1	1	
24	п	R5-57	36" X 36"	9. 00		1			1	1	
25	п	R11-54F	48" X 30"		10.00	1					
26	USH 10 / STH 42, SB OFF-RAMP INTERSECTION	R5-1	30" X 30"	6. 25					1		MOUNT ON BACKSIDE OF SIGN #28
27	п	J2-2							4	1	
28	п	R6-2L	24" X 30"	5. 00		1			1		MOUNT ON SIDE
29	п	R3-2	24" X 24"	4. 00					1		MOUNT ON BACKSIDE OF SIGN #20
30	п	R5-1	30" X 30"	6. 25							
31	п		24" X 24"	4. 00							
32	п	J3-3							9	2	
33	USH 10 / STH 42, UNDERNEATH I-43 OVERPASS	D1-1							1	2	
34	п		36" X 24"	6. 00		1			1	1	
CONTIN	NUED		T SUBTOTALS	272. 23	10. 00	15	8	2	63	25	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

REMOVAL & ERECTION OF PERMANENT SIGNING, TYPE II (CONTINUED)

SIGN	
SIGN	
SIGN SIGN SIGN CODE W X H S.F. S.F. EACH	
SIGN	
NO. LOCATION CODE W X H S.F. S.F. EACH EAC	
35	
36	
37	
38	
1	
A0	
41-42 VACANT 43	
A3	3N #40
44	
1	
Head	
1	ET
Habitan	
46	ING WEST
1	i #47
SO	
52 " J3-2 48" X 57" 19.00 1 6 1 EAST USH 10, NORTH STH 42, SEE 53 " J2-2 48" X 57" 19.00 1 6 1 NORTH I-43, WEST USH 10, SEE 54 " R5-1 30" X 30" 6.25 1 1 1 1 55 " R6-2L 24" X 30" 5.00 1 1 MOUNT ON SIDE OF POST FACH 56 " J2-2 48" X 57" 19.00 1 6 1 NORTH I-43, WEST USH 10, SEE 57 " J2-2 48" X 57" 19.00 1 6 1 NORTH I-43, WEST USH 10, SEE 58 I -43 NB OFF-RAMP SPLITTER I SLAND R5-1 30" X 30" 6.25 1 1 MOUNT ON BACKSIDE OF SIG 59 USH 10 / STH 42, E. OF I -43 INTERCHANGE J1-2 48" X 37" 13.00 1 4 1 EAST USH 10, NORTH STH 42, SEE 60 " J2-2 48" X 57" 19.00 1 4 1	
S2 S3 S3 S4 S5 S7 S7 S5 S7 S7 S5 S7 S7	
54 " R5-1 30" X 30" 6.25 1 1 1 1 1 1 55 " R6-2L 24" X 30" 5.00 1 1 MOUNT ON SIDE OF POST FACILITY MOUNT ON SIDE OF POST FACILITY 56 1 NORTH I-43, WEST USH 10, SEE 1 6 1 NORTH I-43, WEST USH 10, SEE 10 57 1 1 6 1 NORTH I-43, WEST USH 10, SEE 1 1 6 1 NORTH I-43, WEST USH 10, SEE 1 1 4 1 MOUNT ON BACKSIDE OF SIGN MOUNT ON BACKSIDE	E PLAN SHEET
54 " R5-1 30" X 30" 6.25 1 1 1 1 1 1 55 " R6-2L 24" X 30" 5.00 1 1 MOUNT ON SIDE OF POST FACILY MOUNT ON SIDE OF POST FACILY 56 1 NORTH I-43, WEST USH 10, SEE 1 1 6 1 NORTH I-43, WEST USH 10, SEE 10 57 1 1 6 1 NORTH I-43, WEST USH 10, SEE 10 1 6 1 NORTH I-43, WEST USH 10, SEE 10 1 6 1 NORTH I-43, WEST USH 10, SEE 1 1 1 4 1 MOUNT ON BACKSIDE OF SIGN DETAIL SHEE 1 1 4 1 EAST USH 10, NORTH STH 42, SEE 1 1 4 1 EAST USH 10, NORTH STH 42, SEE 1 1 4 1 EAST USH 10, NORTH STH 42, SEE 1 6 1 NOUNT ON BACKSIDE OF SIGN DETAIL SHEE 1 1 1 4 1 SEE SIGN DETAIL SHEE 1 3 1 2 1 1 3 1 3 3 3 3 <td< td=""><td>PLAN SHEET</td></td<>	PLAN SHEET
55 " R6-2L 24" X 30" 5.00 1 MOUNT ON SIDE OF POST FACED 56 " J2-2 48" X 57" 19.00 1 6 1 NORTH I-43, WEST USH 10, SEE 57 " J2-2 48" X 57" 19.00 6 MOUNT ON BACKSIDE OF SIG 58 I-43 NB OFF-RAMP SPLITTER ISLAND R5-1 30" X 30" 6.25 1 MOUNT ON BACKSIDE OF SIG 59 USH 10 / STH 42, E. OF I-43 INTERCHANGE J1-2 48" X 39" 13.00 1 4 1 EAST USH 10, NORTH STH 42, SEE 60 " J2-2 48" X 57" 19.00 1 6 1 SOUTH I-43, SOUTH STH 42, SEE 61 " J2-2 48" X 57" 19.00 1 6 1 MOUNT ON BACKSIDE OF SIG 62 " D1-72 120" X 60" 50.00 1 2 1 SEE SI	
56 " J2-2 48" X 57" 19.00 1 6 1 NORTH I-43, WEST USH 10, SEE 57 " J2-2 48" X 57" 19.00 6 MOUNT ON BACKSIDE OF SIGNATURY 58 I-43 NB OFF-RAMP SPLITTER ISLAND R5-1 30" X 30" 6.25 1 1 MOUNT ON BACKSIDE OF SIGNATURY 59 USH 10 / STH 42, E. OF I-43 INTERCHANGE J1-2 48" X 37" 19.00 1 4 1 EAST USH 10, NORTH STH 42, SEE 60 " J2-2 48" X 57" 19.00 1 6 1 SOUTH I-43, SOUTH STH 42, SEE 61 " R5-1A 36" X 24" 6.00 1 1 MOUNT ON BACKSIDE OF SIGNATURY 62 " D1-72 120" X 60" 50.00 1 2 1 SEE SIGN DETAIL SHEE 63 " D1-3 D1-3 T 1 2 1 2	NG SOUTH
57 " J2-2 48" X 57" 19.00 6 MOUNT ON BACKSIDE OF SIGN MOUNT ON BACKSIDE OF	PLAN SHEET
58 I - 43 NB OFF - RAMP SPLITTER I SLAND R5 - 1 30" X 30" 6. 25 1 MOUNT ON BACKSIDE OF SIGN BACKSIDE O	
59 USH 10 / STH 42, E. OF I-43 INTERCHANGE J1-2 48" X 39" 13.00 1 4 1 EAST USH 10, NORTH STH 42, SEE 60 " J2-2 48" X 57" 19.00 1 6 1 SOUTH I-43, SOUTH STH 42, SEE 61 " R5-1A 36" X 24" 6.00 1 MOUNT ON BACKSIDE OF SIG 62 " D1-72 120" X 60" 50.00 1 2 1 SEE SIGN DETAIL SHEE 63 " D1-3 D1-3 1 2 1 2	
60 " J2-2 48" X 57" 19.00 1 6 1 SOUTH I-43, SOUTH STH 42, SEE 61 " R5-1A 36" X 24" 6.00 1 MOUNT ON BACKSIDE OF SIGN DETAIL SHEE 62 " D1-72 120" X 60" 50.00 1 2 1 SEE SIGN DETAIL SHEE 63 " D1-3 T 1 2	
61 " R5-1A 36" X 24" 6.00 1 1 MOUNT ON BACKSIDE OF SIGN DETAIL SHEE 62 " D1-72 120" X 60" 50.00 1 2 1 2 1 SEE SIGN DETAIL SHEE 63 " D1-3	
62 " D1-72 120" X 60" 50.00	
63 " D1-3 1 2	
	<u>- :</u>
1 0. 1 1 1 1 1 2 1 OLE STON DETAIL STILL	 FT
65 USH 10 / STH 42, MICHIGAN AVE INTERSECTION R3-20L 24" X 36" 6.00 1 1 1 1	<u>- · </u>
66 " D4-5 36" X 48" 12.00 1 1 1 1	
67 " R5-1A 25" X 24" 4.17 1 MOUNT ON BACKSIDE OF SIG	 GN #66
68 " J1-2 48" X 39" 13.00 1 1 4 JCT I-43, JCT CTH JJ, SEE PI	
CONTINUED PROJECT SUBTOTALS 324.52 10.00 14 9 4 70 25	LINY JIILLI

PLAN SHEET PRODUCED BY WisDOT - NE REGION

REMOVAL & ERECTION OF PERMANENT SIGNING, TYPE II (CONTINUED)

				637. 0202 SI GNS REFLECTI VE	637. 0402 SI GNS REFLECTI VE FOLDI NG	634.0614 POSTS WOOD	634. 0616 POSTS WOOD	634. 0618 POSTS WOOD		REMOVI NG	
SIGN		SI GN		TYPE II	TYPE II	4X6X14	4X6X16	4X6X18		SUPPORTS	
NO.	LOCATI ON	CODE	WXH	S. F.	S. F.	EACH	EACH	EACH	EACH	EACH	REMARKS
69	USH 10 / STH 42, MICHIGAN AVE INTERSECTION	J3-4							12	2	
70	SCHI SEL CT	R6-2R	24" X 30"	5. 00		1			1	1	
71	п	R6-2L	24" X 30"	5. 00					1		MOUNT ON BACKSIDE OF SIGN #70
72	п	R1-1	30" X 30"	5. 18		1			1	1	
73	USH 10 / STH 42, MICHIGAN AVE INTERSECTION	R4-7	24" X 30"	5. 00		1			1	1	
74	п	R2-1	24" X 30"	5. 00		1			1	1	55 MPH
75	п	R5-1	30" X 30"	6. 25					1		MOUNT ON BACKSIDE OF SIGN #74
76	п	R6-2L	24" X 30"	5. 00					1		MOUNT ON SIDE OF SIGN #74
77	MI CHI GAN AVE	R1-1	30" X 30"	5. 18		1			1	1	
78	п	R1-1	30" X 30"	5. 18		1			1	1	
79	п	R6-2R	24" X 30"	5. 00		1			1	1	
80	п	R6-2L	24" X 30"	5. 00					1		MOUNT ON BACKSIDE OF SIGN #79
81	USH 10 / STH 42, MICHIGAN AVE INTERSECTION	D4-5							1	1	
82	п	R4-7	24" X 30"	5. 00		1			1	1	
83	п	D2-3	126" X 48"	42. 00			1	1	1	2	SEE SIGN DETAIL SHEET
84	п	R3-20L	24" X 36"	6. 00		1			1	1	
85	USH 10 / STH 42, E. OF MICHIGAN AVE	J1-2							4	1	
86	п	D4-5	36" X 48"	12. 00		1			1	1	
87	I-43 SB OFF-RAMP	D4-5	36" X 48"	12.00			1		1	1	
88	п	D1-3	90" X 36"	22. 50			1	1	1	2	SEE SIGN DETAIL SHEET
89	п	D1-3	90" X 36"	22. 50			1	1	1	2	SEE SIGN DETAIL SHEET
90	п	W3-1	36" X 36"	9. 00			1		1	1	
91	п	E5-1A	90" X 60"	37. 50				2	1	2	EXIT 152
92	I-43 NB ON-RAMP	W4-1	48" X 48"	16.00			1	1	1	2	
93	I-43 NB OFF-RAMP	E5-1A	90" X 60"	37. 50				2	1	2	EXIT 152
94	п	W3-1	36" X 36"	9. 00			1		1	1	
95	п	D1-3	90" X 36"	22. 50			1	1	1	2	SEE SIGN DETAIL SHEET
96	п	D1-3	90" X 36"	22. 50			1	1	1	2	SEE SIGN DETAIL SHEET
97	п	D4-5	36" X 48"	12. 00			1		1	1	
98	п	R5-1A	36" X 24"	6. 00		1			1	1	
98A	п	D1-3							1	2	
99	I-43 SB ON-RAMP	W4-1	48" X 48"	16. 00			1	1	1	2	
100	USH 10 / STH 42, E. OF MICHIGAN AVE	I 55-56	30" X 36"	7. 50		1			1	1	SEE PLAN SHEET
101	п	D1-2	114" X 36"	28. 50			1	1	1	2	SEE SIGN DETAIL SHEET
102	USH 10 / STH 42, AT WHITEWATER DR OVERPASS	D1-1	100" X 21"	14. 58			2				SEE SIGN DETAIL SHEET
CONTIN	NUED	PROJEC [*]	T SUBTOTALS	417. 37	0.00	12	14	12	48	42	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

REMOVAL & ERECTION OF PERMANENT SIGNING, TYPE II (CONTINUED)

_						1					
				637. 0202		634. 0614	634. 0616	634. 0618	638. 2602		
					SI GNS					REMOVI NG	
				SI GNS	REFLECTI VE	POSTS	POSTS	POSTS	REMOVI NG	SMALL	
				REFLECTI VE	FOLDI NG	WOOD	WOOD	WOOD	SI GNS	SIGN	
SI GN		SIGN		TYPE II	TYPE II	4X6X14	4X6X16	4X6X18	TYPE II	SUPPORTS	
NO.	LOCATI ON	CODE	WXH	S. F.	S. F.	EACH	EACH	EACH	EACH	EACH	REMARKS
103	USH 10 / STH 42, AT WHITEWATER DR OVERPASS	D1-1	100" X 21"	14. 58			2		2	2	SEE SIGN DETAIL SHEET
104	USH 10 / STH 42, AT MANITOWOC RIVER	I 3-1	78" X 36"	19. 50			1	1	1	2	SEE SIGN DETAIL SHEET
105	п	I 3-1	78" X 36"	19. 50			1	1	1	2	SEE SIGN DETAIL SHEET
106	USH 10 / STH 42, E. OF MANITOWOC RIVER	12-3	66" X 24"	11. 00			2		1	2	SEE SIGN DETAIL SHEET
107	п	W3-5	36" X 36"	9. 00		1			1	1	45 MPH
108	п	W3-5	36" X 36"	9. 00			1		1	1	45 MPH
109	п	W3-3	36" X 36"	9. 00		1			1	1	
110	п	W3-3	36" X 36"	9. 00			1		1	1	
111	п	R2-1	24" X 30"	5. 00		1			1	1	45 MPH
112	п	R2-1	24" X 30"	5. 00			1		1	1	45 MPH
113	п	J1-1	24" X 39"	6. 50			1		2	1	JCT CTH R
114	USH 10 / STH 42, W. OF CTH R	R2-1	24" X 30"	5. 00			1		1	1	55 MPH
115	п	D1-3	90" X 36"	22. 50			2		1	2	SEE SIGN DETAIL SHEET
116	п	D9-52	42" X 36"	10. 50		1			1	1	MANITOWOC CO AIRPORT, SEE PLAN SHEET
117	п	I 55-56	30" X 36"	7. 50		1			1	1	SEE PLAN SHEET
118	п	R2-1	24" X 30"	5. 00		1			1	1	35 MPH
119	п	R2-1	24" X 30"	5. 00		1			1	1	35 MPH
120	п	J1-3	72" X 39"	19. 50			2		6	2	WEST USH 10, SOUTH STH 42, TO I-43, SEE PLAN SHEET
121	USH 10 / STH 42, AT CTH R INTERSECTION	R1-1F	30" X 30"		5. 18				1		MOUNT ON TRAFFIC SIGNAL
122	п	R4-7	24" X 30"	5. 00					1		MOUNT ON TRAFFIC SIGNAL
123	п	R1-1F	30" X 30"		5. 18			_	1		MOUNT ON TRAFFIC SIGNAL
124	п	J13-3	72" X 45"	22. 50			2		2	2	USH 10, STH 42, CTH R, SEE PLAN SHEET
_		PR0.JFC	T SUBTOTALS	219. 58	10. 36	7	17	2	30	26	

PROJECT SUBTOTALS 219.58 10.36 7 17 2 30 26

PROJECT TOTALS 1233.71 30.36 48 48 20 211 118

PLAN SHEET PRODUCED BY WisDOT - NE REGION

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE I ERECTING STRUCTURAL STEEL SIGN SUPPORTS

		1	Т				1		1		1	1	
	l ·			637.	. 0101		635. 0200	636. 0100	635. 0500		638. 2601	638. 3100	
	ļ ,						SIGN SUPPORTS	SI GN SUPPORTS	SIGN SUPPORTS	TYPE/SI ZE	REMOVI NG	REMOVI NG	
	l l						STRUCT. STEEL	CONCRETE	STEEL	0F	SI GNS	STRUCT. STEEL	
SI GN	l l	SI GN		SI GNS,	TYPE	1	HI GH-STRENGTH	MASONRY	REI NFORCEMENT	STEEL	TYPE I	SIGN SUPPORTS	
NO.	LOCATI ON	CODE	W	Χ	Н	S. F.	LB	CY	LB		EACH	EACH	REMARKS
201	I-43 NB, S. OF MIDDLE RD OVERPASS	E3-1									1	2	WALDO BLVD EXIT 152
202	I-43 NB, S. OF US 10 / STH 42 EXIT, MOUNTED ON MIDDLE RD OVERPASS	E8-1									1		TWO RIVERS EXITS
203	I -43 SB, N. OF US 10 / STH 42 EXIT	E3-1									1	2	WALDO BLVD EXIT 152
204	I-43 SB ON RAMP TO USH 10 / STH 42	D1-71	144"	Χ	162"	162.00	1057	1. 6	98	2-TYPE B			SEE SIGN DETAIL SHEET
205	п	D1-70	144"	Χ	72"	72.00							MOUNT ON BACKSIDE OF SIGN #204, SEE SIGN DETAIL SHEET
206	I-43 NB ON-RAMP TO USH 10 / STH 42	D1-70	132"	Χ	72"	66.00	1057	1. 6	98	2-TYPE B			SEE SIGN DETAIL SHEET
207	п	D1-71	144"	Χ	162"	162.00							MOUNT ON BACKSIDE OF SIGN #206, SEE SIGN DETAIL SHEET
	PROJECT TOTALS					462.00	2114	3	196		3	4	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

3|

TRAFFIC CONTROL DEVICES

		050/405	643.03 DRUM		643.0 BARRIC TYPE	ADES	643.07 WARN LIGH TYPE	ING TS	643.07 WARN LIGH TYPE	ING TS	643.00 ARRO BOAR	W	643.09 SIGN	
CATEGORY	LOCATION	SERVICE DAYS	IN SERVICE	DAYS	IN SERVICE	DAYS	IN SERVICE	DAYS	IN SERVICE	DAYS	IN SERVICE	DAYS	IN SERVICE	DAYS
0010	PROJECT													
	CTH S / USH 10	110			1	110	2	220					2	220
	HIGHWAY H RD / USH 10	110			1	110	2	220					1	110
	UNIOIN RD/ USH 10	110			1	110	2	220					1	110
	N. ALVERNO RD / USH 10	110			1	110	2	220					1	110
	MICHIGAN AVE	110			1	110	2	220					1	110
	WEST END OF PROJECT	110			12	1,320	16	1,760					6	660
	SCHISEL LN / MICHIGAN AVE	110			20	2,200	48	5,280					4	440
	PARK AND RIDE	110			4	440	5	550					1	110
	CTH R INTERSECTION	110	40	4,400	20	2,200	31	3,410	10	1,100	1	110	16	1,760
	TOTALS			4,400		6,710		12,100		1,100		110		3,630

TRAFFIC CONTROL

	643.0100	
	TRAFFIC	643.2000
	CONTROL	DETOUR
	(PROJECT)	(PROJECT)
' LOCATION	EACH	EACH
PROJECT 1500-34-71	1	1
TOTAL =	1	1
		TRAFFIC CONTROL (PROJECT) LOCATION EACH PROJECT 1500-34-71 1

TRAFFIC CONTROL DETOUR SIGN SUMMARY

						643. 3000	643. 1050	643. 0920	
					APPROX.	DETOUR	SI GNS	COVERI NG	
				NUMBER	SERVI CE	SI GNS	PORTABLE	SI GNS	
SIGN		SIGN	SI ZE	ΙN	PERI OD		CHANGEABLE	TYPE II	
					110		MESSAGE		
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
1	LT OF TYPE 1 (10 WEST/310; TWO RIVERS/APPLETON; EXIT 1 MILE)		36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10/42
	п	WO 20-2-A	48"x48"	1	110	110			
2	ACROSS FROM SIGN # 1 (MEDIAN SIDE)	MO 3-2	36"x18"	1	110	110			
	n	MO 3-1	36"x18"	1	110	110			
	n	M 50-2	72"x36"	1	110	110			10/42
	п	WO 20-2-A	48"x48"	1	110	110			
3	1700' S OF SIGN # 1	MO 4-8	36"x18"	2	110	220			
	n	MO 3-2	36"x18"	1	110	110			
	n	MO 3-1	36"x18"	1	110	110			
	n	M 50-2	72"x36"	1	110	110			10/42
	п	MO 5-2-R	30"x30"	2	110	220			
4	ACROSS FROM SIGN # 3 (MEDIAN SIDE)	MO 4-8	36"x18"	2	110	220			
	n	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10/42
	п	MO 5-2-R	30"x30"	2	110	220			
5	10-EAST-AHEAD		120"x 24"	1	110	110			NEXT RIGHT (PLACED OVER "AHEAD") SEE DETAIL
6	1700' S OF SIGN # 3	MO 4-8	36"x18"	2	110	220			
	п	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10/42
	п	MO 5-2-R	30"x30"	2	110	220			
7	ACROSS FROM SIGN # 6 (MEDIAN SIDE)	MO 4-8	36"x18"	2	110	220			
	п	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10/42
	п	MO 5-2-R	30"x30"	2	110	220			
8	LT OF TYPE 1 (10 WEST/310; TWO RIVERS/APPLETON; TILT RIGHT)		36"x18"	2	110	220			
	n	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	n	M 50-2	72"x36"	1	110	110			10/42
	п	MO 6-2	30"x30"	2	110	220			RI GHT
9	200' S OF STOP AHEAD SIGN ON HWY 10 W OFF-RAMP (LEFT SIDE)	MO 4-8	36"x18"	2	110	220			
	п	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110	ļ		
	п	M 50-2	72"x36"	1	110	110	ļ		10/42
	п	MO 5-1-R	30"x30"	2	110	220			
10	RT OF J3-2 (E-310-LT; TO-R-LT) LEFT SIDE	MO 4-8	24"x12"	2	110	220	ļ		
	п	MO 3-2	24"x12"	1	110	110			
	п	MO 3-1	24"x12"	1	110	110			
	п	M 50-2	48"x24"	1	110	110			10/42
	п	MO 6-1	21"x21"	2	110	220			LEFT
CONTI NUED	SUBTOTAL			58		6, 380	0	0	

NOTE ALL COVERING SIGNS ITEMS ARE ANTICIPATED TO BE ONE CYCLE

						643. 3000	643. 1050	643. 0920	_
					APPROX.	DETOUR	SI GNS	COVERI NG	
				NUMBER	SERVI CE	SIGNS	PORTABLE	SIGNS	
SIGN		SIGN	SI ZE	IN	PERI OD	31 0113	CHANGEABLE	TYPE II	
SIGN		STON	JI ZL	I IV	110		MESSAGE	1117	
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
11A	MODI FY J3-2 (E-10-AH; W-10-RT)	MO 4-8	24"x12"	1	110	110	DATS	LACIT	KLIVIAKKS
TIA		MO 3-2	EXISTING	'	110	110			EAST
	п	M 1-4	EXISTING						10
	п	MO 6-1	21"x21"	1	110	110			LEFT
11B	RT OF SIGN # 11A	MO 4-8	24"x12"	1	110	110			ELI I
	11	MO 3-1	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MO 6-1	21"x21"	1	110	110			RI GHT
12	150' E OF STONE RD INTERSECTION ON USH 10	WO 20-2-A	48"x48"	1	110	110			
13	LT OF J1-2 (JCT 43; JCT 310)	MO 4-8	24"x12"	1	110	110			
	II	MO 3-2	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10
	п	MO 6-1	21"x21"	1	110	110			AHEAD
14	MODIFY J2-3 (N-43-AH; E-10-AH RT; S-43-AH RT)	MO 4-8	24"x12"	1	110	110			
	п	MO 3-2	EXI STI NG						EAST
	п	M 1-4	EXI STI NG						10
	п	MO 6-1	21"x21"	1	110	110			AHEAD
15	J3-2 (S-43-LT; E-10- LT)							1	EAST-10-LEFT
16	200' E OF NB I 43 OFF-RAMP ON STH 310	MO 4-8	24"x12"	2	110	220			
	п	MO 3-2	24"x12"	1	110	110			
	п	MO 3-1	24"x12"	1	110	110			
	п	M 50-2	48"x24"	1	110	110			10/42
17	RT OF J4-1 (E-310) @ WAGON WHEEL RD ON STH 310 EB	MO 4-8	24"x12"	2	110	220			
	п	MO 3-2	24"x12"	1	110	110			
	П	MO 3-1	24"x12"	1	110	110			
	П	M 50-2	48"x24"	1	110	110			10/42
18	MODIFY J1-3 (JCT 43; JCT 10; END 310)	MO 4-8-A	24"x18"	1	110	110			
	П	M 1-4	EXISTING						10
19	RT OF J1-1 (JCT R)	MO 4-8	24"x12"	2	110	220			
	П	MO 3-2	24"x12"	1	110	110			
	п	MO 3-1	24"x12"	1	110	110			
	п	M 50-2	48"x24"	1	110	110			10/42
	п	MO 5-1-R	21"x21"	2	110	220			
20	RT OF RAB DIAGRAMATIC (310 EB)	MO 4-8	24"x12"	2	110	220			
	п	MO 3-2	24"x12"	1	110	110			
	п	MO 3-1	24"x12"	1	110	110			
	п	M 50-2	48"x24"	1	110	110			10/42
	п	MO 6-1	21"x21"	2	110	220			RI GHT
21	ABOVE D1-1 (R-TILT RT) SB SPLITTER ISLAND	MO 4-8	24"x12"	2	110	220			
	п	MO 3-2	24"x12"	1	110	110			
	п	MO 3-1	24"x12"	1	110	110			
	п	M 50-2	48"x24"	1	110	110			10/42
	п	MO 6-2	21"x21"	2	110	220			RI GHT
22	RT OF J4-1 (W-310) ON STH 310 WB WEST OF R-A-B	MO 4-8	24"x12"	1	110	110			
	п	MO 3-4	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10
CONTI NUED	SUBTOTAL			48		5, 280	0	1	

NOTE ALL COVERING SIGNS ITEMS ARE ANTICIPATED TO BE ONE CYCLE

TRAFFIC CONTROL DETOUR SIGN SUMMARY (CONTINUED)

				NUMBER	APPROX. SERVI CE	643. 3000 DETOUR SI GNS	643. 1050 SI GNS PORTABLE	643. 0920 COVERI NG SI GNS	
SIGN		SIGN	SI ZE	IN	PERI OD 110	31 3113	CHANGEABLE MESSAGE	TYPE II	
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
23	ABOVE D1-1 (W-310-TILT RT) WB SPLITTER ISLAND	MO 4-8	24"x12"	2	110	220			
	п	MO 3-2	24"x12"	1	110	110			
	п	MO 3-4	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10/10
	п	MO 6-2	21"x21"	1	110	110			LEFT
		MO 6-2	21"x21"	1	110	110			RI GHT
24A	RT OF YIELD SIGN (WB HWY 310 @ CTH R)	MO 4-8	24"x12"	1	110	110			
	п	MO 3-2	24"x12"	1	110	110			10
	п	M 1-4	24"x24" 21"x21"	1	110 110	110 110			10 LEFT
24B	LT OF RAB DIAGRAMATIC (310 WB)	MO 6-1 MO 4-8	21 X21 24"x12"	1	110	110			LEF I
Z4D	LI OF RAD DIAGRAWATIC (STO WD)	MO 3-2	24 X12 24"x12"	1	110	110			
	п	M 1-4	24 X12 24"x24"	1	110	110			10
	п	MO 5-1-L	21"x21"	1	110	110			10
24C	RT OF J1-1 (JCT R)	MO 3-2	36"x18"	1	110	110			
2.10	"	M 1-4	36"x36"	1	110	110			10
	п	WO 20-2-A	48"x48"	1	110	110			
25	LT OF RAB DIAGRAMATIC (CTH R-NB)	MO 4-8	24"x12"	1	110	110			
	П	MO 3-4	24"x12"	1	110	110			
	П	M 1-4	24"x24"	1	110	110			10
	п	MO 6-1	21"x21"	1	110	110			LEFT
26	RT OF J1-1 (JCT 310)	MO 4-8	24"x12"	1	110	110			
	п	MO 3-4	24"x12"	1	110	110			
	П	M 1-4	24"x24"	1	110	110			10
	п	MO 5-1-L	21"x21"	1	110	110			
27	LT OF J4-1(SOUTH-R) S OF R-A-B ON R	MO 4-8	24"x12"	2	110	220			
	" "	MO 3-2	24"x12"	1	110	110			
—	ıı	MO 3-1	24"x12"	1	110	110			10/42
28	200' N OF CTH P INTERSECTION ON CTH R	M 50-2 MO 4-8	48"x24"	1	110 110	110 110			10/42
28	200 N OF CIH P INTERSECTION ON CIH R	MO 3-4	24"x12" 24"x12"	1	110	110			
	п	M 1-4	24 X12 24"x24"	1	110	110			10
29	200' S OF CTH P INTERSECTION ON CTH R	MO 4-8	24"x12"	2	110	220			10
2,	"	MO 3-2	24"x12"	1	110	110			
	п	MO 3-1	24"x12"	1	110	110			
	п	M 50-2	48"x24"	1	110	110			10/42
30	200' N OF PLANK RD INTERSECTION ON CTH R	MO 4-8	24"x12"	1	110	110			
	п	MO 3-4	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10
31	200' S OF PLANK RD INTERSECTION ON CTH R	MO 4-8	24"x12"	2	110	220			
	ıı .	MO 3-2	24"x12"	1	110	110			
	п	MO 3-1	24"x12"	1	110	110			
	п	M 50-2	48"x24"	1	110	110			10/42
32	MODI FY J1-2 (JCT 10; JCT 42)	MO 4-8-A	24"x18"	2	110	220			10.110
		M 50-2	EXISTING						42/10
	GAP IN SIGN NUMBERS	M 50 0	EVI CTI NO						D 40 40
34	MODIFY J3-3 (CTH R-AH; STH 42-LT & RT; USH 10-LT & RT)	M 50-3	EXI STI NG		110	220			R-42-10
CONTI NUED		MO 6-1	21"x21"	2 51	110	220 5, 610	0	0	LEFT
NOTE ALL CO	SUBTUTAL VERING SIGNS ITEMS ARE ANTICIPATED TO BE ONE CYCLE) I	l	5,610	l U	U	
21-1									louine

Г						643. 3000	643. 1050	643. 0920	
					APPROX.	DETOUR	SI GNS	COVERI NG	
				NUMBER	SERVI CE	SI GNS	PORTABLE	SIGNS	
SIGN		SI GN	SI ZE	IN	PERI OD	31 0113	CHANGEABLE	TYPE II	
3101		JI ON	51.22	110	110		MESSAGE	111 - 11	
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
35	200' N OF WALDO BLVD INTERSECTION ON CTH R	MO 4-8	24"x12"	1	110	110	DATS	LACIT	KLWAKKS
	II	MO 3-4	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10
36	200' W OF CRESENT ST ON WALDO BLVD	M 50-2	48"x24"	1	110	110			10/42
	11	WO 20-2-A	48"x48"	1	110	110			
37A	J4-3 (10; 42; T0 43)							1	10-42-T0 43
37B	@ J4-3 (10; 42; T0 43)	MO 4-8	24"x12"	2	110	220			
	n n	MO 3-3	24"x12"	1	110	110			
	п	MO 3-4	24"x12"	1	110	110			
	п	M 50-2	24"x24"	1	110	110			42/10
	п	MO 4-5	24"x12"	1	110	110			
	п	M 1-51	24"x24"	1	110	110			43
	п	MO 5-1-L	21"x21"	2	110	220			
38	J4-3 (10; 42; T0 43)							1	10-42-T0 43
39	@ J4-3 (10; 42; T0 43)	MO 4-8	24"x12"	1	110	110			
	n .	MO 3-3	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	M 4-5	24"x12"	1	110	110			TO
	п	M 1-51	EXI STI NG						43
	п	MO 5-1-L	21"x21"	1	110	110			
40	RIGHT OF SIGN # 39	MO 4-8	24"x12"	1	110	110			
	п	MO 3-4	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10
	п	MO 5-1-R	21"x21"	1	110	110			
41	ACROSS FROM SIGN # 39 (MEDIAN SIDE)	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-3	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MB 4-5	24"x12"	1	110	110			
	п	M 1-1	24"x24"	1	110	110			43
	п	MO 5-1-L	21"x21"	1	110	110			
42	J2-3 (10-AH; 42-AH; CTH R LT & RT)							1	10-AHEAD; 42-AHEAD
43A	@J2-3 (10-AH; 42-AH; CTH R LT & RT)	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	н	MO 3-3	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MB 4-5	24"x12"	1	110	110			
	п	M 1-1	24"x24"	1	110	110			43
	П	MO 5-1-L	21"x21"	1	110	110			
43B	RIGHT OF SIGN # 43A	MO 4-8	24"x12"	1	110	110			
	п	MO 3-4	24"x12"	1	110	110			
	n	M 1-4	24"x24"	1	110	110			10
	n	MO 5-1-R	21"x21"	1	110	110			
44	J4-3 (W-10; S-42-T0-43) WEST OF CTH R INTERSECTION							1	WEST 10; SOUTH 42-T0-43
45	200' S OF WALDO BLVD INTERSECTION ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-3	24"x12"	1	110	110			
	n	M 1-6	24"x24"	1	110	110			42
	n	MB 4-5	24"x12"	1	110	110			
	n	M 1-1	24"x24"	1	110	110			43
CONTI NUED	SUBTOTAL TO BE ONE OVER THE OWNER.			44		4, 840	0	4	
NOTE ALL COV	VERING SIGNS ITEMS ARE ANTICIPATED TO BE ONE CYCLE								la===

						643. 3000	643. 1050	643. 0920	
					APPROX.	DETOUR	SI GNS	COVERI NG	
				NUMBER	SERVI CE	SI GNS	PORTABLE	SI GNS	
SIGN		SIGN	SI ZE	ΙN	PERI OD		CHANGEABLE	TYPE II	
					110		MESSAGE		
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
46	J3-3 (10-LT & RT; 42-LT & RT; CTH R AH)							1	10 LT & RT; 42 LT & RT
47	IN FRONT OF SIGN # 46	MO 4-5	24"x12"	3	110	330			
	П	MO 3-4	24"x12"	1	110	110			
	П	MO 3-1	24"x12"	1	110	110			
	П	MO 3-2	24"x12"	1	110	110			
	"	M 50-3	72"x24"	1	110	110			10/42/10
	"	MO 6-1	21"x21"	1	110	110			AHEAD
404		MO 6-1	21"x21"	2	110	220		4	RI GHT
48A	J3-2 (W-10-AH LT; T0-43-AH LT) (MEDIAN SIDE)	MO 4 F	24114211	1	110	110		1	TO-43-AH LT
48B	IN FRONT OF SIGN # 48A	MO 4-5	24"x12"	1	110	110			
 		MO 4-8	24"x12"	2	110	220	 	 	
 		MO 3-4 MO 3-1	24"x12" 24"x12"	1	110 110	110 110	+	-	
	п	MO 3-1	24 X12 24"x12"	1	110	110			
	п	M 50-3	72"x24"	1	110	110			10/42/10
	п	MO 6-1	21"x21"	1	110	110			AHEAD
	п	MO 6-2	21"x21"	2	110	220			RI GHT
48C	500' E OF SIGN # 48B ON FREE FLOW CURVE	MO 4-8-A	24"x18"	2	110	220			KI GITI
400	11 100 E 01 31 010 # 40B 010 1 REE 1 EOW CORVE	M 50-2	48"x24"	1	110	110			10/42
49	200' N OF MICHIGAN ST ON CTH R	MO 4-8	24"x12"	1	110	110			VERTI CAL I NSTALLATI ON
77	II	MO 3-1	24"x12"	1	110	110			VERTIONE THOMESATION
	п	M 1-6	24"x24"	1	110	110			42
	п	MO 3-2	24"x12"	1	110	110			12
	п	M 1-4	24"x24"	1	110	110			10
	п	MO 5-2-R	21"x21"	1	110	110			-
50	200' S OF MICHIGAN ST ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-3	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MB 4-5	24"x12"	1	110	110			
	п	M 1-1	24"x24"	1	110	110			43
51	200' N OF BROADWAY ST ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	u .	MO 3-1	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MO 3-2	24"x12"	1	110	110			
	П	M 1-4	24"x24"	1	110	110			10
52	200' S OF BROADWAY ST ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
		MO 3-3	24"x12"	1	110	110			
—	"	M 1-6	24"x24"	1	110	110			42
	"	MB 4-5	24"x12"	1	110	110			40
F2		M 1-1	24"x24"	1	110	110	-		43
53	200' N OF CUSTER ST ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
 		MO 3-1	24"x12"	1	110	110	 		40
 	II	M 1-6 MO 3-2	24"x24"	1	110 110	110 110	-	-	42
 	п	M 1-4	24"x12" 24"x24"	1	110	110	1		10
CONTI NUED	SUBTOTAL	IVI 1-4	Z4 XZ4	49	110	5, 390	0	2	10
CONTINUED	JUDIUIAL		<u> </u>	1 47	<u> </u>	5, 370		۷	

NOTE ALL COVERING SIGNS ITEMS ARE ANTICIPATED TO BE ONE CYCLE

						643. 3000	643. 1050	643. 0920	
					APPROX.	DETOUR	SI GNS	COVERI NG	
				NUMBER	SERVI CE	SI GNS	PORTABLE	SI GNS	
SIGN		SIGN	SI ZE	ΙN	PERI OD		CHANGEABLE	TYPE II	
					110		MESSAGE		
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
54	200' S OF CUSTER ST ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-3	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MB 4-5	24"x12"	1	110	110			
	п	M 1-1	24"x24"	1	110	110			43
55	200' N OF EXPO DR ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-1	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MO 3-2	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10
56	200' S OF EXPO DR ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-3	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MB 4-5	24"x12"	1	110	110			
	п	M 1-1	24"x24"	1	110	110			43
57	500' N OF USH 151 INTERSECTION ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-3	24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MB 4-5	24"x12"	1	110	110			
	п	M 1-1	24"x24"	1	110	110			43
	п	MO 5-1-R	21"x21"	1	110	110			
58	RT OF J3-2 (TO CTH CR; 151-LT & RT)	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-3	24"x12"	1	110	110			
	n n	M 1-6	24"x24"	1	110	110			42
		MB 4-5	24"x12"	1	110	110			
	"	M 1-1	24"x24"	1	110	110			43
50		MO 6-1	21"x21"	1	110	110			RI GHT
59	200' N OF USH 151 INTERSECTION ON CTH R	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
		MO 3-1	24"x12"	1	110	110			40
	11	M 1-6	24"x24"	1	110	110 110			42
	п	MO 3-2 M 1-4	24"x12" 24"x24"	1	110 110	110			10
60	500' W OF DEWEY ST ON USH 151	MO 3-1	24 x24 24"x12"	1	110	110			IU
- 50	300 W OF DEWET 31 ON USH 131	M 1-6	24 X12 24"x24"	1	110	110			42
 	п	WO 20-2-A	48"x48"	1	110	110			42
61	MODIFY J1-1 (END BUSINESS 42)	MO 4-8	24"x12"	1	110	110			
	WODIFT ST-T (END BOSTNESS 42)	MO 3-1	24 X12 24"x12"	1	110	110			
	п	M 1-6	24"x24"	1	110	110			42
	п	MO 5-1-R	21"x21"	1	110	110			14
62	MODIFY J1-2 (JCT 42; JCT 43)	MO 4-8	24"x12"	1	110	110			
<u> </u>	"	MO 3-1	24"x12"	1	110	110			
	п	M 1-6	EXI STI NG	· ·	1				42
	п	MO 6-1	21"x21"	1	110	110			RI GHT
63	J2-2 (N-43-AH TILT RT; N-42-AH TILT RT)				1.0			1	N-42-AH TILT RT
64	J3-1 (N-42-TILT RT)							1	N-42-TILT RT
CONTI NUED	SUBTOTAL			42		4, 620	0	2	
			•		•	,			

NOTE ALL COVERING SIGNS ITEMS ARE ANTICIPATED TO BE ONE CYCLE

TRAFFIC CONTROL DETOUR SIGN SUMMARY (CONTINUED)

						643. 3000	643. 1050	643. 0920	
					APPROX.	DETOUR	SI GNS	COVERI NG	
				NUMBER	SERVI CE	SI GNS	PORTABLE	SI GNS	
SIGN		SIGN	SI ZE	ΙN	PERI OD		CHANGEABLE	TYPE II	
					110		MESSAGE		
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
65	RT OF TRAFFIC SIGNAL	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
	п	MO 3-1	24"x12"	1	110	110 110			42
	п	M 1-6 MO 3-2	24"x24" 24"x12"	1	110 110	110			42
	n	M 1-4	24 X12 24"x24"	1	110	110			10
	п	MO 6-1	24 X24 21"x21"	1	110	110			LEFT
66	500' W OF SIGN # 65	MO 4-8	24"x12"	1	110	110			VERTICAL INSTALLATION
- 00	υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ	MO 3-1	24"x12"	1	110	110			VERTICAL INSTALLATION
	II .	M 1-6	24"x24"	1	110	110			42
	П	MO 3-2	24"x12"	1	110	110			12
	п	M 1-4	24"x24"	1	110	110			10
	п	MO 5-1-L	21"x21"	1	110	110			
67	MODIFY J3-1 (N-42-LT)	MO 4-8	24"x12"	1	110	110			
	П	M 3-1	EXISTING						
	п	M 1-6	EXISTING						42
	П	MO 6-1	21"x21"	1	110	110			AHEAD
	п	MO 4-5	24"x12"	1	110	110			
	п	MO 3-2	24"x12"	1	110	110			
	п	M 1-4	24"x24"	1	110	110			10
68	MODIFY J2-3 (N-42-AH LT; N-43-AH LT)	MO 4-8	24"x12"	1	110	110			
	п	M 3-1	EXISTING						
	п	M 1-6	EXI STI NG						42
	п	MO 6-1	21"x21"	1	110	110			AHEAD
	"	MO 4-5	24"x12"	1	110	110			
	"	MO 3-2	24"x12"	1	110	110			10
		M 1-4	24"x24"	1	110	110			10
69	500' W OF HECKER ST ON USH 151	M 1-6	24"x24"	1	110	110			42
	TYPE 1 (MANITOWOC EXITS- HWY 42/151 1-3/4; HWY 42/10 4;	WO 20-2-A	48"x48"	1	110	110			
70	HWY 10/310 7- 1/2)	R 55-58-A	108"x18"	1	110	110			HWY 42/10 CLOSED
71	TYPE 1 (42-NORTH-AHEAD)		120"x 24"	1	110	110			NEXT RIGHT (PLACED OVER "AHEAD") SEE DETAIL
72	LT OF TYPE 1 (151/BUS 42; MANITOWOC/FOND DU LAC; 1 1/4 MILES)	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10 42
	П	WO 20-2-A	48"x48"	1	110	110			
73	ACROSS FROM SIGN # 72 (MEDIAN SIDE)	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10 42
	п	WO 20-2-A	48"x48"	1	110	110			
74	1700' N OF SIGN # 72	MO 4-8	36"x18"	2	110	220			
	"	MO 3-2	36"x18"	1	110	110			
	"	MO 3-1	36"x18"	1	110	110			10 10
	"	M 50-2	72"x36"	1	110	110			10 42
CONTI NUED	SUBTOTAL	MO 5-2-R	30"x30"	2 41	110	220 4, 510	0	0	
CONTINUED	SUDTUTAL	1	<u> </u>	41	<u> </u>	4,310	1 0	U	

	T	1		1	Г		1 (40 4050	(40,000	1
						643. 3000	643. 1050	643. 0920	
					APPROX.	DETOUR	SI GNS	COVERI NG	
				NUMBER	SERVI CE	SI GNS	PORTABLE	SIGNS	
SIGN		SIGN	SI ZE	I N	PERI OD		CHANGEABLE	TYPE II	
					110		MESSAGE		
NO.	LOCATI ON	CODE	WXH	SERVI CE	DAYS	DAYS	DAYS	EACH	REMARKS
75	ACROSS FROM SIGN # 74 (MEDIAN SIDE)	MO 4-8	36"x18"	2	110	220			
	п	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10 42
	п	MO 5-2-R	30"x30"	2	110	220			
76	1700' N OF SIGN # 74	MO 4-8	36"x18"	2	110	220			
	п	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10 42
	п	MO 5-2-R	30"x30"	2	110	220			
77	ACROSS FROM SIGN # 76 (MEDIAN SIDE)	MO 4-8	36"x18"	2	110	220			
	"	MO 3-2	36"x18"	1	110	110			
	п	MO 3-1	36"x18"	1	110	110			
	п	M 50-2	72"x36"	1	110	110			10 42
	п	MO 5-2-R	30"x30"	2	110	220			10 42
78	LT OF TYPE 1 (151/BUS 42; MANITOWOC/FOND DU LAC; TILT RT)	MO 4-8	36"x18"	2	110	220			
76	LI OF TIPE I (1317 BOS 42, MANITOWOC/FOND BO LAC, TIET KI)	MO 3-2	36"x18"	1	110	110			
	11	MO 3-2	36"x18"	1	110	110			
	11	M 50-2		1	110				10 42
	п		72"x36"			110			
70		MO 6-2	30"x30"	2	110	220			RI GHT
79	100' N OF SIGNAL AHEAD SIGN	MO 4-8	24"x12"	2	110	220			
	"	MO 3-2	24"x12"	1	110	110			
	" "	MO 3-1	36"x18"	1	110	110			10 10
	"	M 50-2	24"x24"	1	110	110			10 42
	"	MO 5-1-R	21"x21"	2	110	220			
80	ABOVE J3-3 (S-151-LT; BUS 42-RT; N-151-RT)	MO 4-8	24"x12"	2	110	220			
	"	MO 3-2	24"x12"	1	110	110			
	"	MO 3-1	36"x18"	1	110	110			
	П	M 50-2	24"x24"	1	110	110			10 42
	"	MO 6-1	21"x21"	2	110	220			RI GHT
81	J4-2 (N-43; N-42) ON I 43 NB							1	NORTH-42
82	TYPE 1 - I 43 NB (N-42/CTHJJ/E-10; MANITOWOC/STURGEON BAY;	R 55-58-A	108"x18"	1	110	110			N-42/CTHJJ/E-10; MANI TOWOC/STURGEON
02	EXIT 1-1/4 MILES) I 43 NB			<u>'</u>	110	110			BAY; CLOSED
83	TYPE 1 - I 43 NB (WALDO BLVD-EXIT 152)	R 55-58-A	108"x18"	1	110	110			WALDO BLVD-CLOSED
	TYPE 1 - I 43 NB (TWO RIVERS EXITS-HWY 42 3/4;	R 55-58-A	108"x18"	1	110	110			
84	HWY 310 3-1/2) I 43 NB	K 33-36-A	100 X10	ı	110	110			HWY 42 CLOSED
85	TYPE 1 - I 43 NB (N-42/CTHJJ/E-10; MANITOWOC/STURGEON BAY; TILT RT) I 43 NB	R 55-58-A	108"x18"	1	110	110			N-42/CTHJJ/E-10; MANI TOWOC/STURGEON BAY; CLOSED
86	TYPE 1 - I 43 SB (N-42/CTHJJ/E-10; MANI TOWOC/STURGEON BAY;	R 55-58-A	108"x18"	1	110	110			N-42/CTHJJ/E-10; MANI TOWOC/STURGEON
0.7	EXIT 1-1/4 MILES	D EE EO *	100" 210"	1	110	110			BAY; CLOSED
87	TYPE 1 - I 43 SB (WALDO BLVD - AHEAD)	R 55-58-A	108"x18"	1	110	110			WALDO BLVD - CLOSED
88	TYPE 1 - I 43 SB (N-42/CTHJJ/E-10; MANITOWOC; TILT RT)	R 55-58-A	108"x18"	1	110	110			N-42/CTHJJ/E-10; MANI TOWOC; CLOSED
89	ON WALDO BLVD WB - TO BE LOCATED IN THE FIELD			1			7		
90	ON WALDO BLVD EB - TO BE LOCATED IN THE FIELD			1			7		
91	PARK AND RIDE			1			7		
	SUBTOTAL			52		5, 390	21	1	
	TOTAL			385		42, 020	21	10	
		1	I		1	, 020			1

NOTE ALL COVERING SIGNS ITEMS ARE ANTICIPATED TO BE ONE CYCLE

PAVEMENT MARKING EPOXY

CATEGORY	STA STA.	LOCATION	646.0106 4-INCH WHITE EDGE LF	646.0106 4-INCH YELLOW EDGE LF	646.0106 4-INCH WHITE DASH LF	646.0126 8-INCH WHITE LF	647.0256 SYMBOLS EACH	647.0456 CURB LF	647.0656 PARKING STALL LF	647.0606 ISLAND NOSE EACH
0010	190+00-191+91	USH 10 WB	189							
0010	190+00-191+98	USH 10 WB			49					
-	190+00-191+98	USH 10 WB		197						
	192+79-198+68	USH 10 WB	576							
	192+79-198+68	USH 10 WB			144					
	193+59-198+25	USH 10 WB		467						
	199+38-205+29	USH 10 WB	590							
	199+20-205+29	USH 10 WB			151					
	199+20-205+16	USH 10 WB		603						
	206+52-275+00	USH 10 WB	6,852							
	206+61-274+88	USH 10 WB			1,707					
	206+61-274+82	USH 10 WB		6,820						
	190+00-192+43	USH 10 EB		242						
	190+00-192+43	USH 10 EB			61					
	190+00-192+36	USH 10 EB	238							
	193+60-198+28	USH 10 EB		470						
	193+23-198+89	USH 10 EB			142					
	193+23-198+90	USH 10 EB	568							
	199+71-205+35	USH 10 EB		560						
	199+67-205+35	USH 10 EB			142					
	199+63-205+35	USH 10 EB	572							
	206+86-274+88	USH 10 EB		6,797						
	207+03-274+83	USH 10 EB			1,696					
	207+23-275+00	USH 10 EB	6,776							
	191+29-192-43	USH 10 EB				114				
	197+45-198+28	USH 10 EB				83				
	204+40-205+35	USH 10 EB				95				
	273+60-274+83	USH 10 EB				129				
	193+54-196+46	USH 10 WB				292				
	199+38-200+52	USH 10 WB				112				
	206+65-207+61	USH 10 WB				97				
	274+89	USH 10 EB								
	30+58-48+03	NW RAMP	1,719							
	30+51-43+03	NW RAMP		1,238						
	50+58-67+13	NE RAMP	1,613							
	50+74-61+83	NE RAMP		1,090						
	7+95-29+26	SW RAMP	2,139							
	19+78-29+54	SW RAMP		955						
	33+92-49+72	SE RAMP	1,558							
	38+75-49+71	SE RAMP		1,091						
	31+01-31+40	NW RAMP				78				
	48+89-49+28	SE RAMP				80				
	43+04-43+54	NW RAMP				50				
	61+83-62+33	NE RAMP				50				
	CONTINUED	SUBTOTAL	23,390	20,530	4,092	1,180	0	0	0	0

PAVEMENT MARKING EPOXY (CONTINUED)

CATEGORY	STA STA.	LOCATION	646.0106 4-INCH WHITE EDGE LF	646.0106 4-INCH YELLOW EDGE LF	646.0106 4-INCH WHITE DASH LF	646.0126 8-INCH WHITE LF	647.0256 SYMBOLS EACH	647.0456 CURB LF	647.0656 PARKING STALL LF	647.0606 ISLAND NOSE EACH
0010	38+25-38+75	SE RAMP				50				
0010	19+28-19+78	SW RAMP				50 50				
	49+72	NW RAMP								
	49+66	NW RAMP								
	30+57	SE RAMP								
	30+65	SE RAMP								
	193+42-193.58	USH 10 EB LT						17		
	198+29-198+37	USH 10 EB LT						10		
	199+18-199+75	USH 10 EB LT						62		
	206+65-206+86	USH 10 EB LT						23		
	274+83-274+97	USH 10 EB LT						14		
	191+96-192+43	USH 10 WB RT						48		
	193+42-193.58	USH 10 WB RT						18		
	198+25-198.37	USH 10 WB RT						12		
	205+14-205+35	USH 10 WB RT						22		
	274+83-274+97	USH 10 WB RT						14		
	MICHIGAN AVE	PARK AND RIDE					1		320	
	192+50 - 195+53	MEDIAN								1
_	193+32 - 193+37	MEDIAN								1
	198+43 - 198+48	MEDIAN								1
	199+11 - 199+14	MEDIAN								1
	205+40 - 205+44	MEDIAN								1
	206+57 - 206-62	MEDIAN								1
	274+96 - 274+99	MEDIAN								1
C	CTH R INTERSECTION	1			233	270				
		SUBTOTAL	0	0	233	370	1	240	320	7
			23,390	20,530	4,325					
	TC	DTAL		48,245		1,550	1	240	320	7

PAVEMENT MARKING TEMPORARY

		TOTAL	340	_	3	700	180
0010	CTH R INTERSECTION	USH 10 WB	340	7	3	700	180
CATEGORY	STA STA.	LOCATION	LF	EACH	EACH	LF	LF
			646.0600 REMOVING PM	647.0955 REMOVING PM ARROWS	647.0965 REMOVING PM WORDS	649.0300 TEMP PVT MKG REFLECTIVE TAPE 4-INCH	649.0801 TEMP PVT MKG REFLECTIVE TAPE 8-INCH

CONSTRUCTION STAKING

			650.5500	650.8000	650.9910
			CONSTRUCTION	CONSTRUCTION	CONSTRUCTION
			STAKING	STAKING	STAKING
			CURB AND	RESURFACING	SUPPLEMENTAL
			GUTTER	REFERENCE	CONTROL
CATEGORY	STATION	LOCATION	LF	LF	LS
0010	(PROJECT)				1
0010	190+00-275+00	EB		8,500	<u></u>
	190+00-275+00	WB		8,500	
	RAMP	NE		1,250	
	RAMP	EW		1,350	
	RAMP	SE		1,200	
	RAMP	SW		1,100	
	SCHISEL CT	EAST	62		
	SCHISEL CT	WEST	96		
	MICHIGAN AVE	EAST	114		
	MICHIGAN AVE	WEST	113		
		TOTAL		24.000	
		TOTAL	385	21,900	1

QUANTITY FOR CONSTRUCTION STAKING STORM SEWER SYSTEM SHOWN WITH STORM SEWER STRUCTURES

SAWING CONCRETE

CATEGORY	STATION	LOCATION	690.0250 SAWING CONCRETE LF	REMARKS
0010	190+00	EB	24	PARTIAL DEPTH FOR BUTT JOINT
	190+00	WB	24	PARTIAL DEPTH FOR BUTT JOINT
	275+00	EB	51	PARTIAL DEPTH FOR BUTT JOINT
	275+00	WB	40	PARTIAL DEPTH FOR BUTT JOINT
	B-36-114	WB WEST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	B-36-114	WB EAST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	B-36-112	WB WEST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	B-36-112	WB EAST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	B-36-115	EB WEST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	B-36-115	EB EAST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	B-36-113	EB WEST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	B-36-113	EB EAST APPROACH	28	PARTIAL DEPTH FOR BUTT JOINT
	PROJECT	FROM "CONCRETE PAVEMENT REPAIR AND BASE PATCHING"	21,310	
	PROJECT	FROM "CURB AND GUTTER"	5,254	
UN	IDISTRIBUTED		73	
		TOTAL	27,000	

SAWING ASPHALT

			690.0150
			SAWING
			ASPHALT
GORY	STATION	LOCATION	LF

CATEGORY	STATION	LOCATION	ASPHALT LF
0/11200111	017711017	200/11011	
0010	205+83	SCHISEL CT (NW)	98
	206+67	SCHISEL CT (NE)	49
	205+78	MICHIGAN AVE (NW)	122
	206+49	MICHIGAN AVE (NE)	138
	62+33 NE	NE RAMP	27
	43+55 NW	NW RAMP	27
	38+25 SE	SE RAMP	27
	19+29 SW	SW RAMP	27
	43+55 NW 38+25 SE	NW RAMP SE RAMP	27 27

TOTAL 515

LONGITUDINAL JOINT REPAIR

SPV.0090.03 LONGITUDINAL **JOINT**

7,250

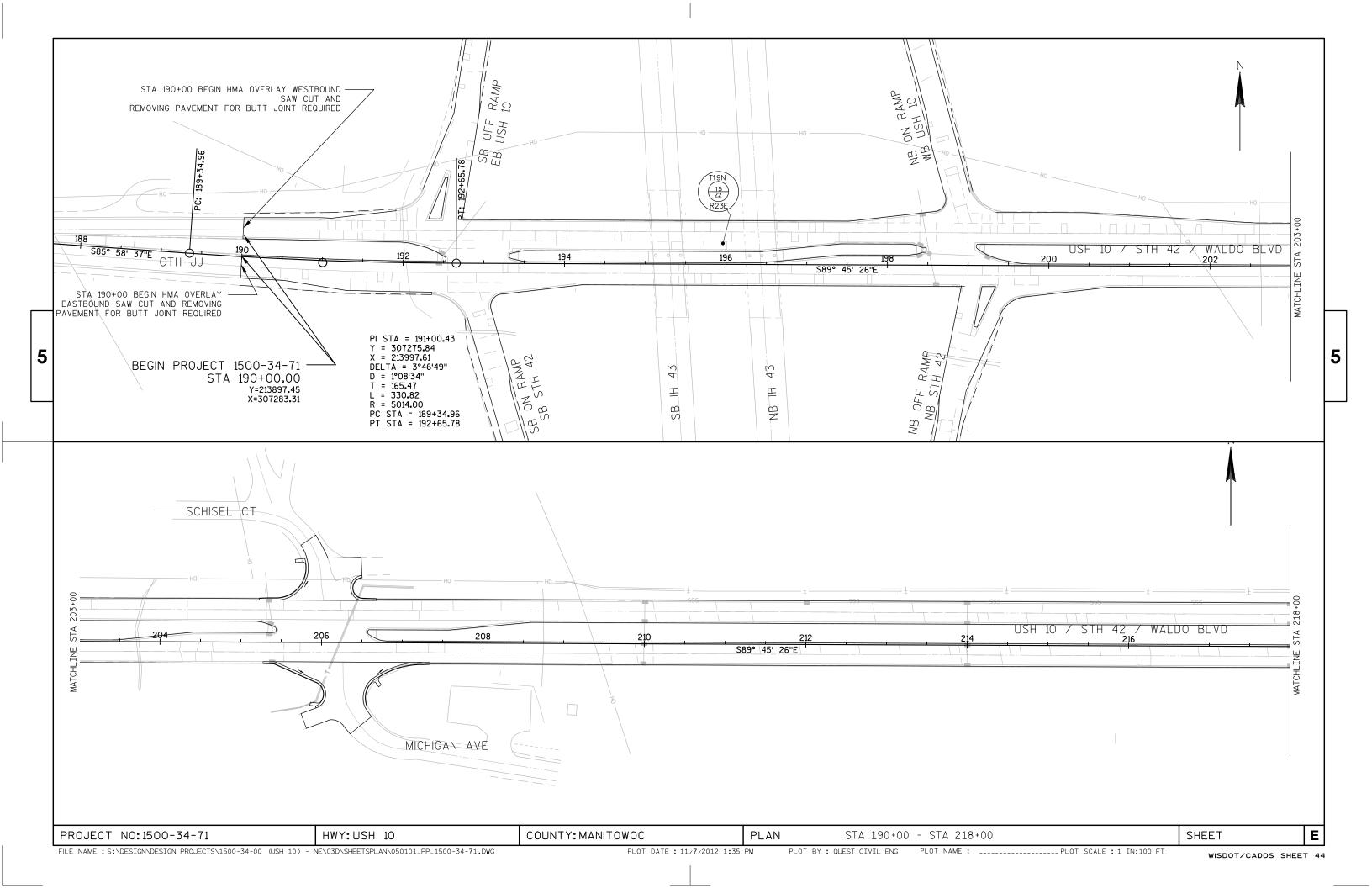
			301111
			REPAIR
CATEGORY	STATION	LOCATION	LF
0010	190+00 - 217+31	WB	2859
	217+13 - 248+00	WB	945
	248+00 - 275+00	WB	22
	190+00 - 217+31	EB	1461
	217+31 - 248+00	EB	900
	248+00 - 275+00	EB	395
	SE RAMP		50
	NE RAMP		123
	SW RAMP		11
	UNDISTRIBUTED		485

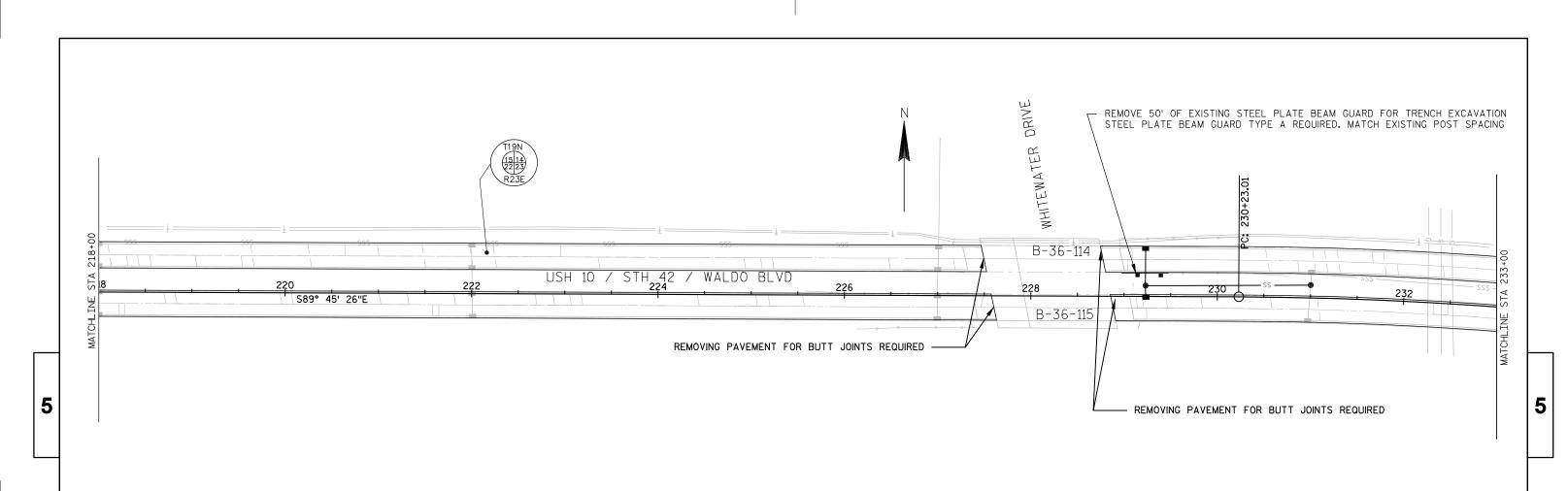
TOTAL

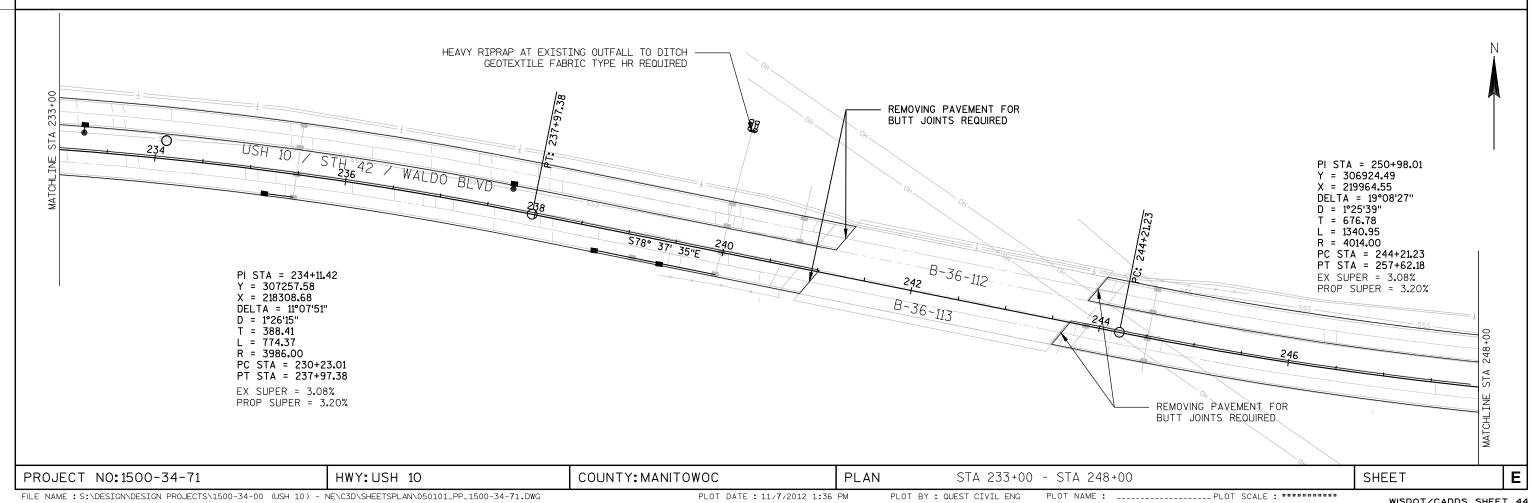
CLEAN AND PATCH CONCRETE PAVEMENT

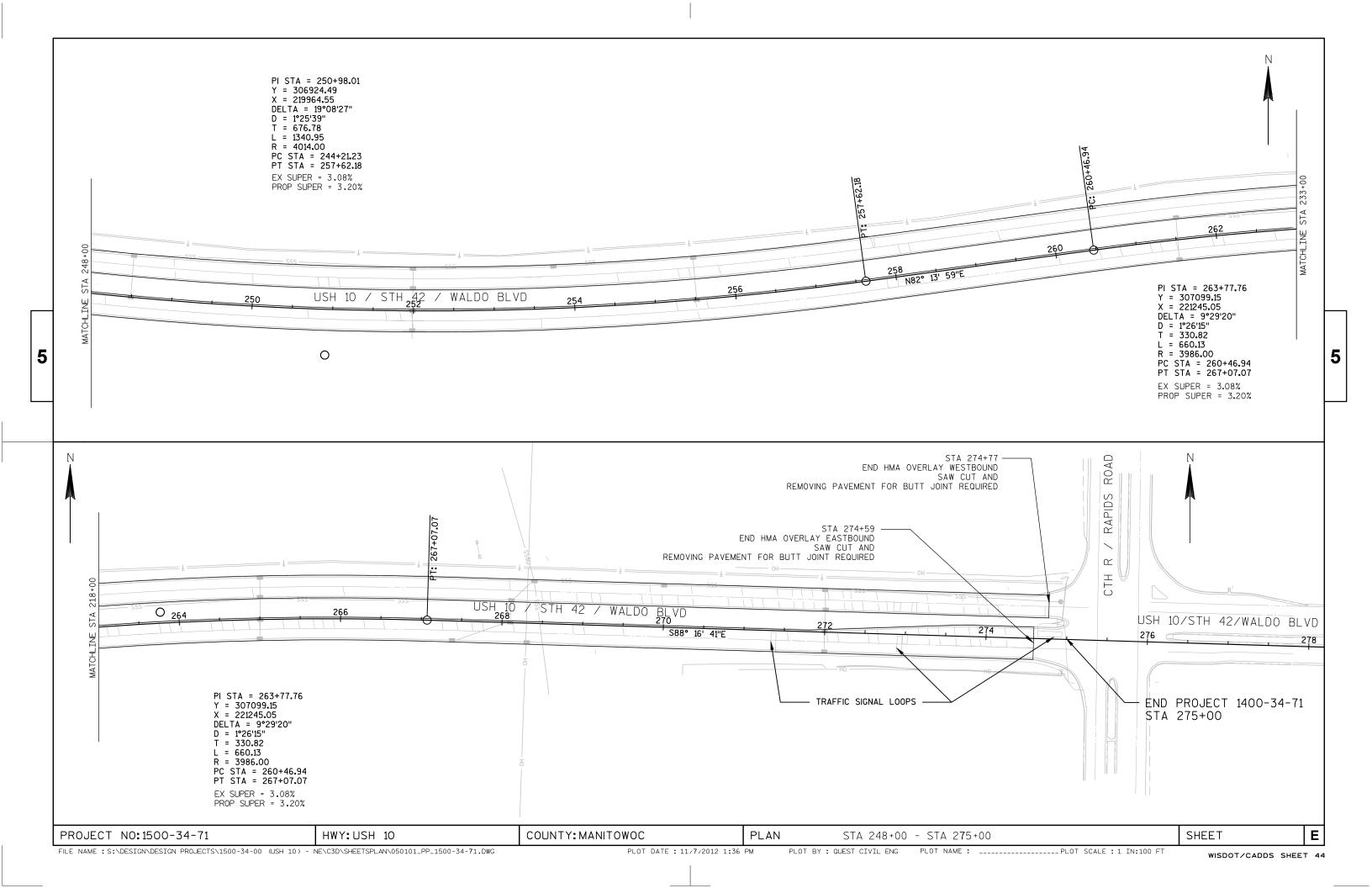
SPV.0090.04 CLEAN AND PATCH

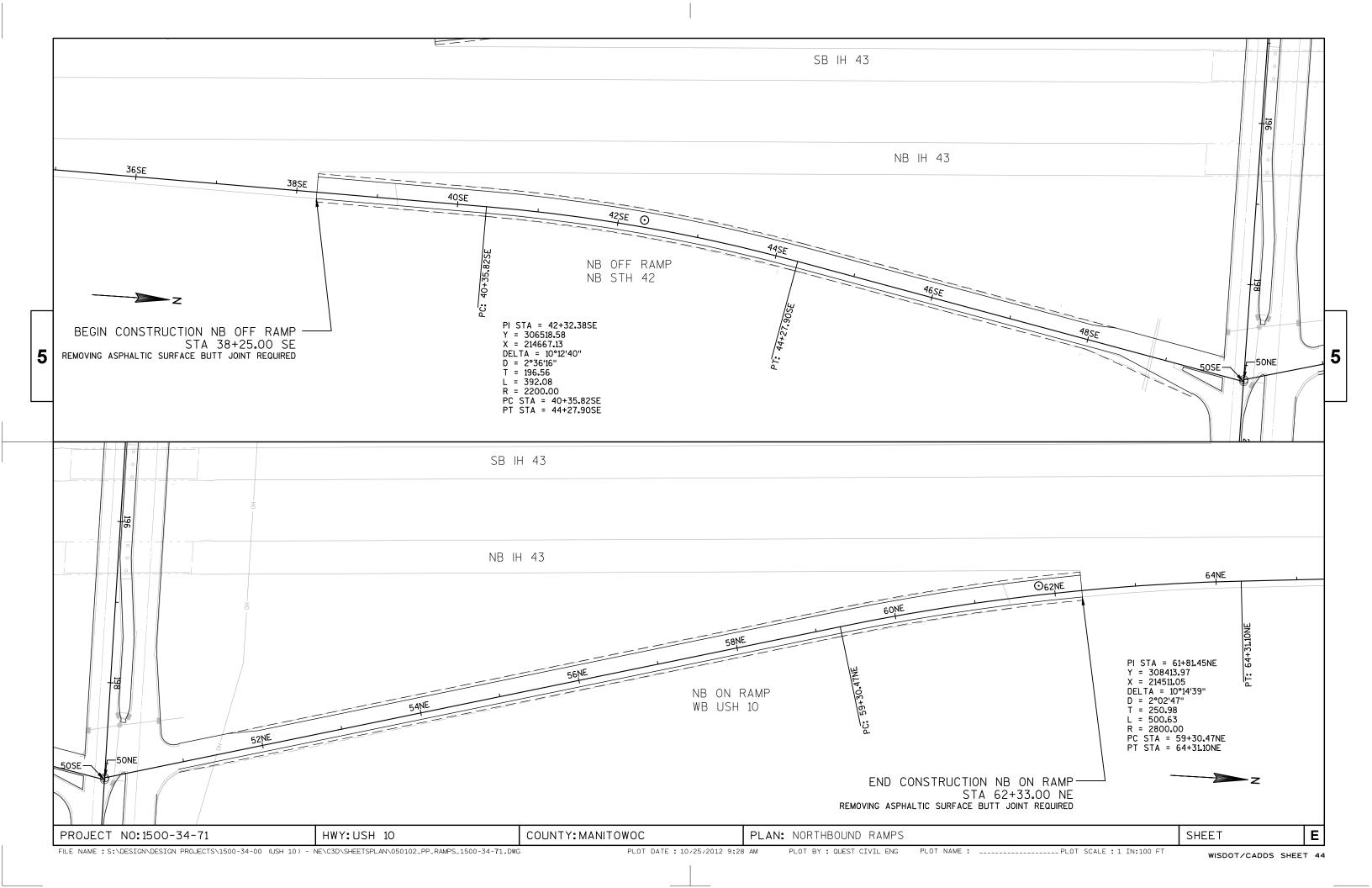
			OLL/ (IN / (IND I / (IOI)
CATEGORY	STATION	LOCATION	LF
			_
0010	USH 10	LONGITUDINAL	5,100
	RAMPS	LONGITUDINAL	1050
	USH 10	TRANSVERSE	700
	RAMPS	TRANSVERSE	100
		TOTAL	6,950

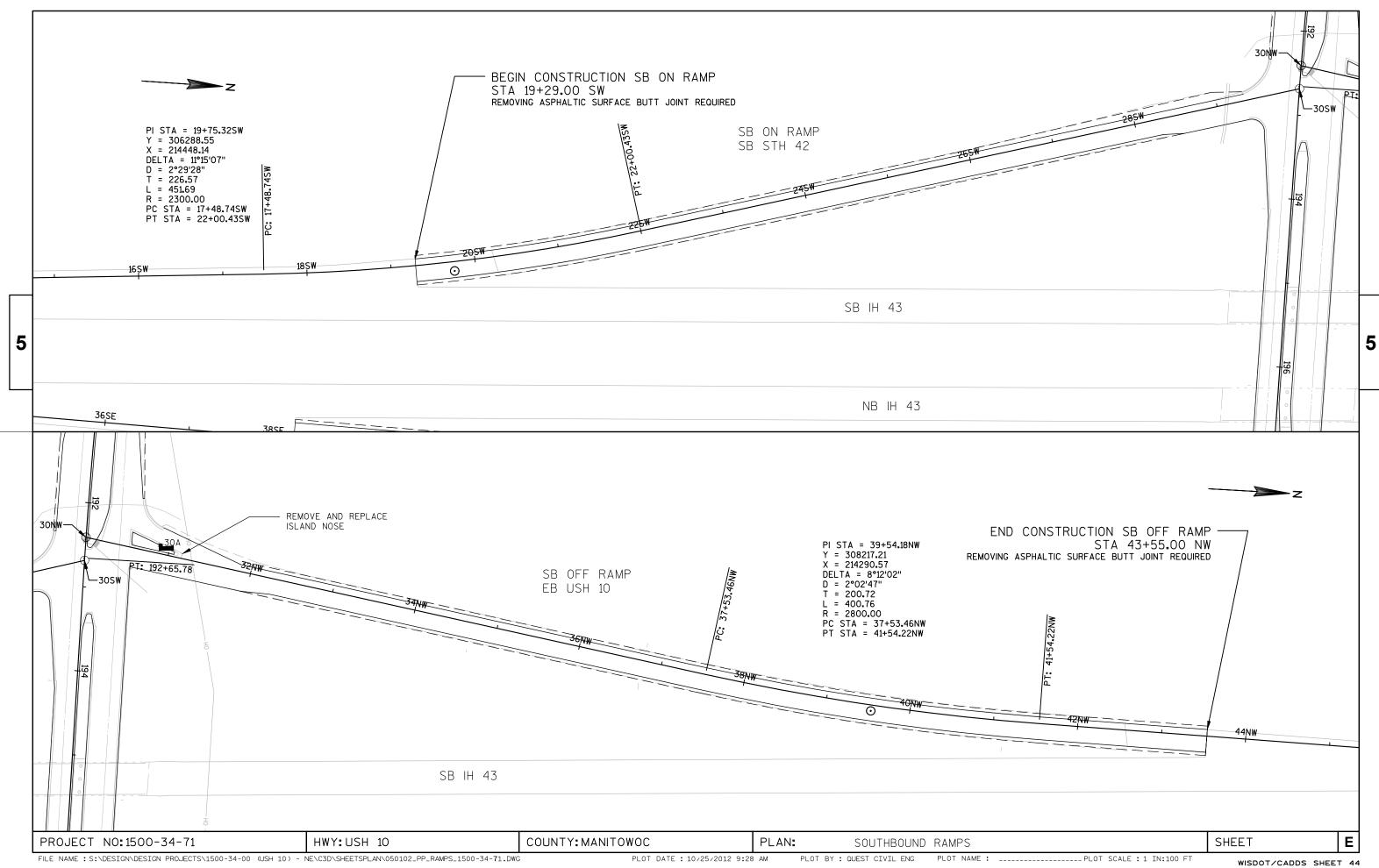








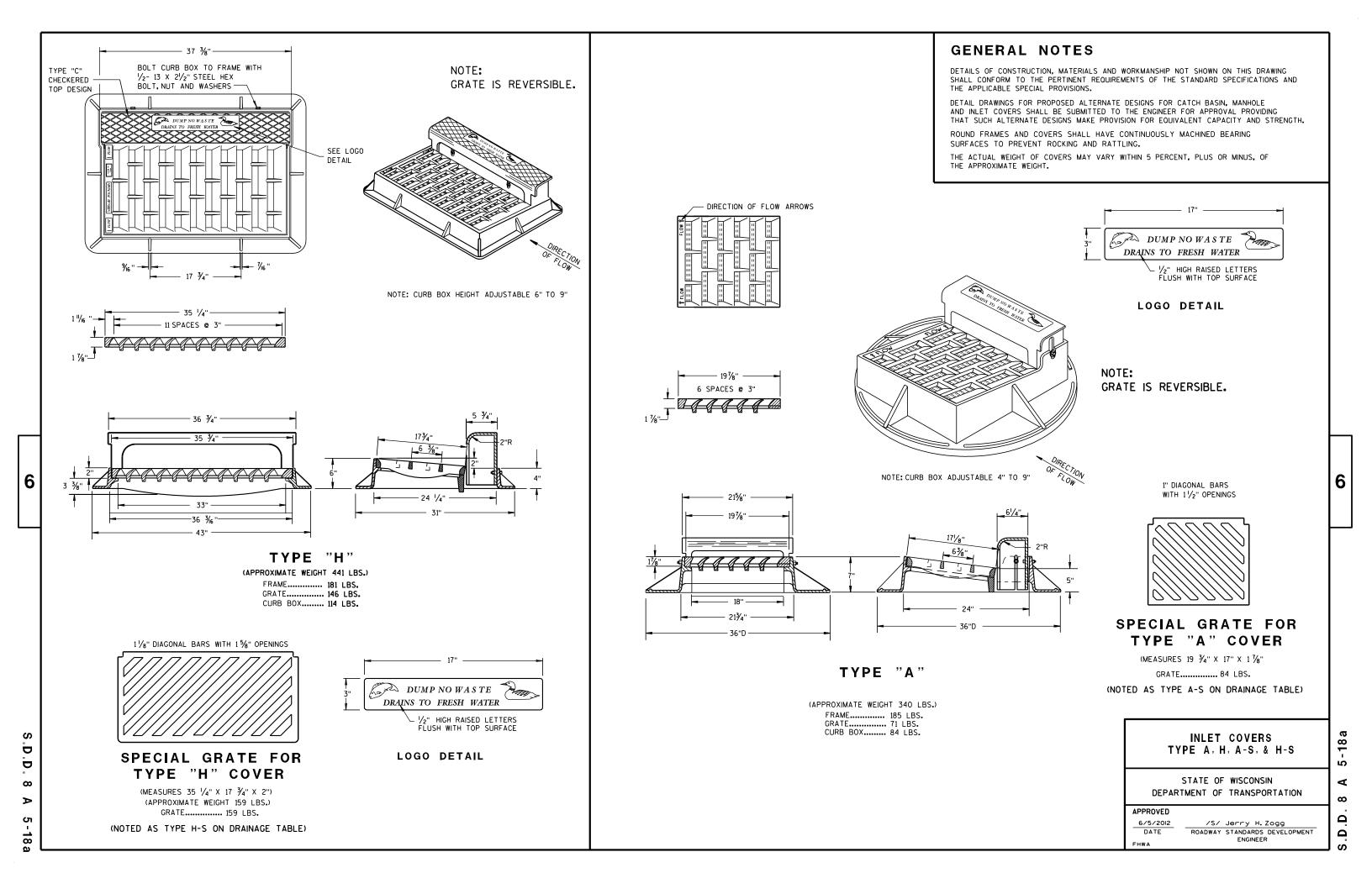




Standard Detail Drawing List

08A05-18A	INLET COVERS TYPE A, H, A-S, & H-S
08A05-18C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-18D	INLET COVER, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
11B02-02	CONCRETE MEDIAN NOSE
13C01-15	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C14-04A	BASE PATCHING CONCRETE
13C14-04B	BASE PATCHING CONCRETE
13C14-04C	BASE PATCHING CONCRETE
14B15-07A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12A	PAVEMENT MARKING SYMBOLS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D16-01	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

6

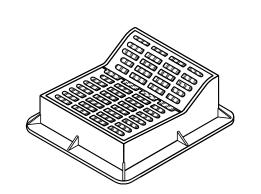


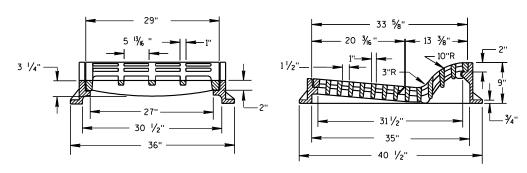
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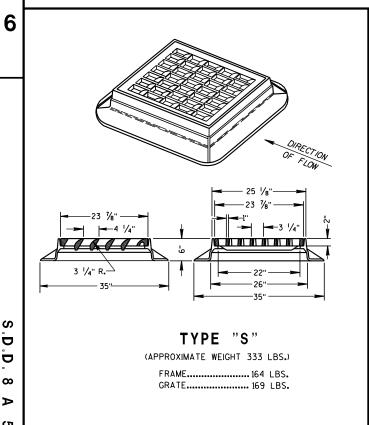


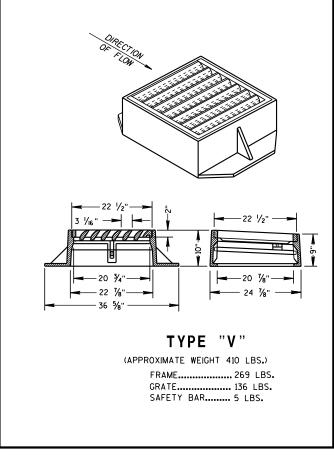
TYPE "F"

(APPROXIMATE WEIGHT 644 LBS.)

FRAME......302 LBS. GRATE......160 LBS. GRATE...... 182 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



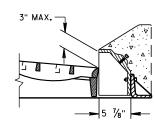


GENERAL NOTES

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.

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

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF

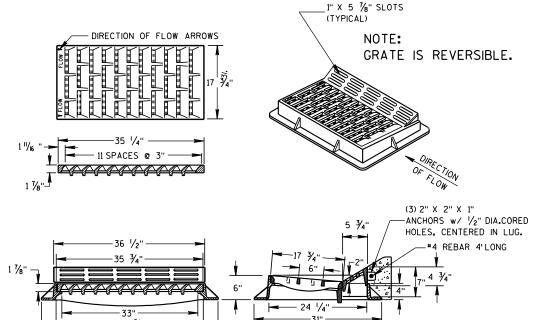


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT CURB BOX 68 LBS.)

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

> NOTE: SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE



TYPE "HM"

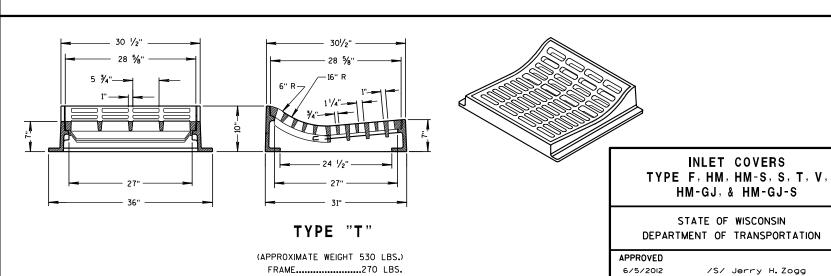
(APPROXIMATE WEIGHT 414 LBS.) FRAME...... 181 LBS.159 LBS. GRATE... CURB BOX..... 74 LBS.

NOTE: SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM" COVER NOTED AS TYPE HM-S ON DRAINAGE TABLE

ROADWAY STANDARDS DEVELOPMENT ENGINEER

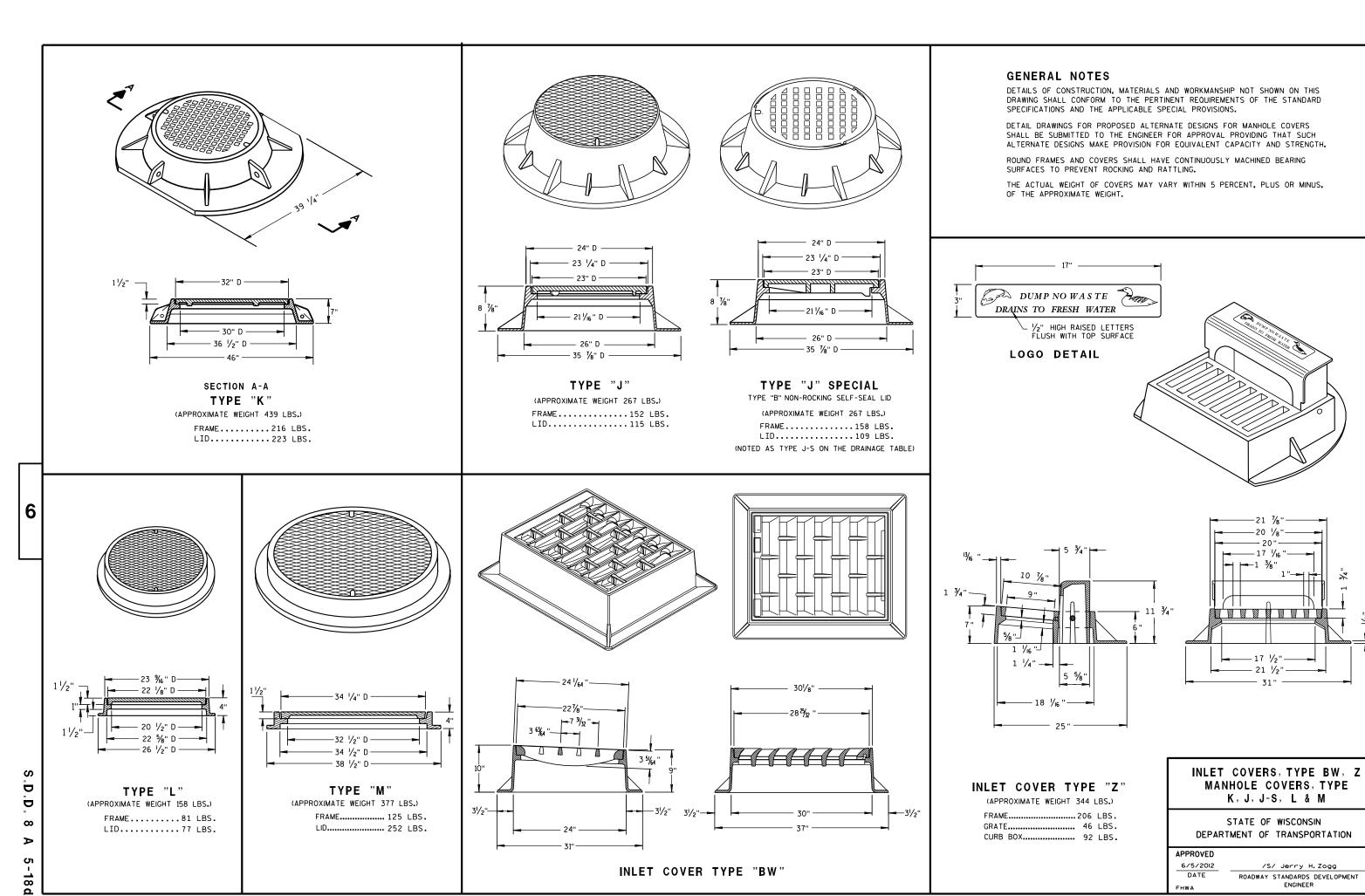
DATE

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



GRATE.....260 LBS.

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



5-18d

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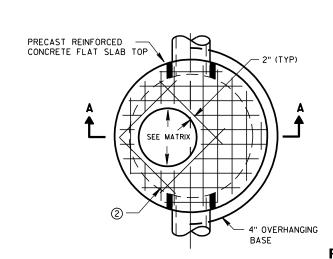
Ω

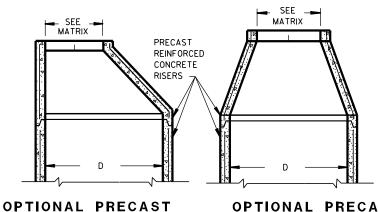


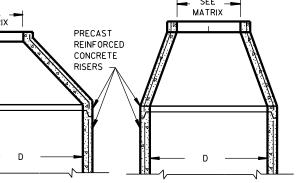


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TOP WITH PLAIN END JOINT

PLAN VIEW CIRCULAR OPENING

SEE

MORTAR

MATRIX

SEE DETAIL "B"

PLANS

S

CONCRETE

(MIN. SLOPE 1 IN./FT.

CONTRACTOR TO PROVIDE DRAWING(S)

STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

CONCRETE WITH

MONOLITHIC BASE

SEE DETAIL "A"

REINFORCED CONCRETE **ECCENTRIC TOP**

PRECAST

(3)

WALL

PRECAST REINFORCED

CONCRETE FLAT SLAB TOP

√2" CEMENT

- MORTAR

BEVEL 45°

2 COURSES

6" BLOCK

- 4" MIN.

(3)

SPLIT PIPE OR FORM CONCRETE TO FIT

CAST-IN-PLACE OR

PRECAST REINFORCED

CONCRETE BASE ②

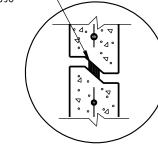
PLASTER COAT

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

(TYP)

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS **RECOMMENDATIONS** CONFORMING TO ASTM C990

TOP WITH TONGUE AND GROOVE JOINT



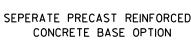
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

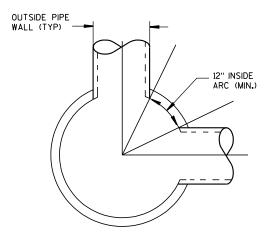
PRECAST WALL MORTAR (3) PRECAST REINFORCED CONCRETE BLOCK WITH

PRECAST REINFORCED

CONCRETE WITH INTEGRAL BASE OPTION



DETAIL "A"



DETAIL "C"

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

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.

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 FOR EQUIVALENT CAPACITY AND STRENGTH.

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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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 M199 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 SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF $\frac{1}{2}$ " 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 DESIGNATION M 199.

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

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 MINIMUM WALL INICINESS SHALL BE 4 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.
- (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

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	С	ALL J'S	К	L	М
OPENING SIZE (FT)					
2 DIA.	×	х		Х	
3 DIA.			Х		Х

PIPE MATRIX

MANHOLE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES			
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12		
4-FT	24	18		
5-FT	36	24		
6-FT	42	36		
7-FT	48	36		
8-FT	60	42		

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

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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.

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 STRENGTH.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES 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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED.

OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

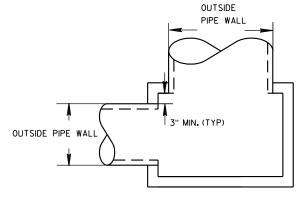
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	вw	F	ALL H'S	s	Т	٧	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	Х	Х				Х		Х	
2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
2X3-FT	2	3					Х				
2.5X3-FT	2.5	3				Х					

PIPE MATRIX

	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		



DETAIL "A"

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

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012 /S/ Jerry H. Zogg

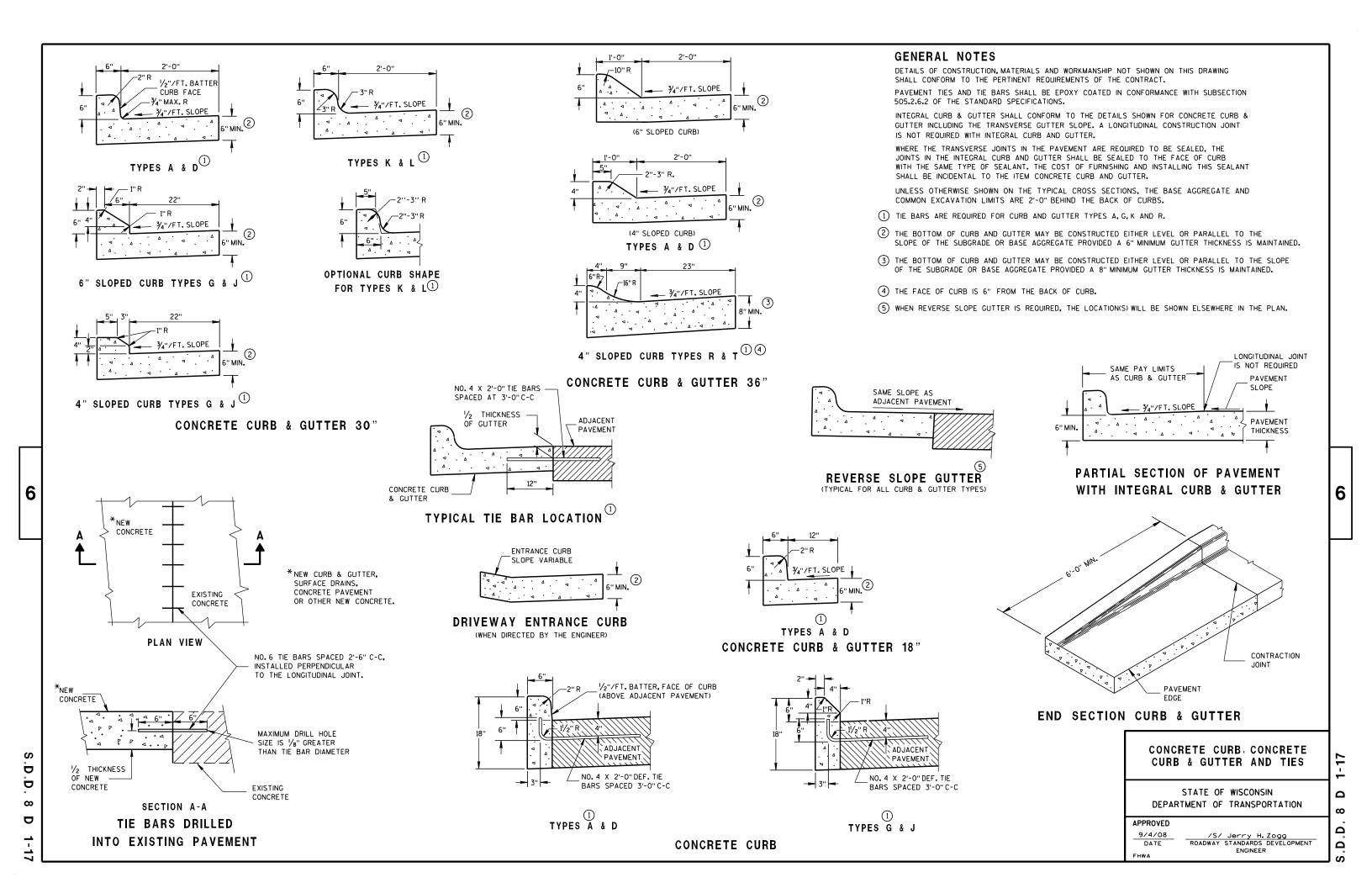
DATE ROADWAY STANDARDS DEVELOPMENT

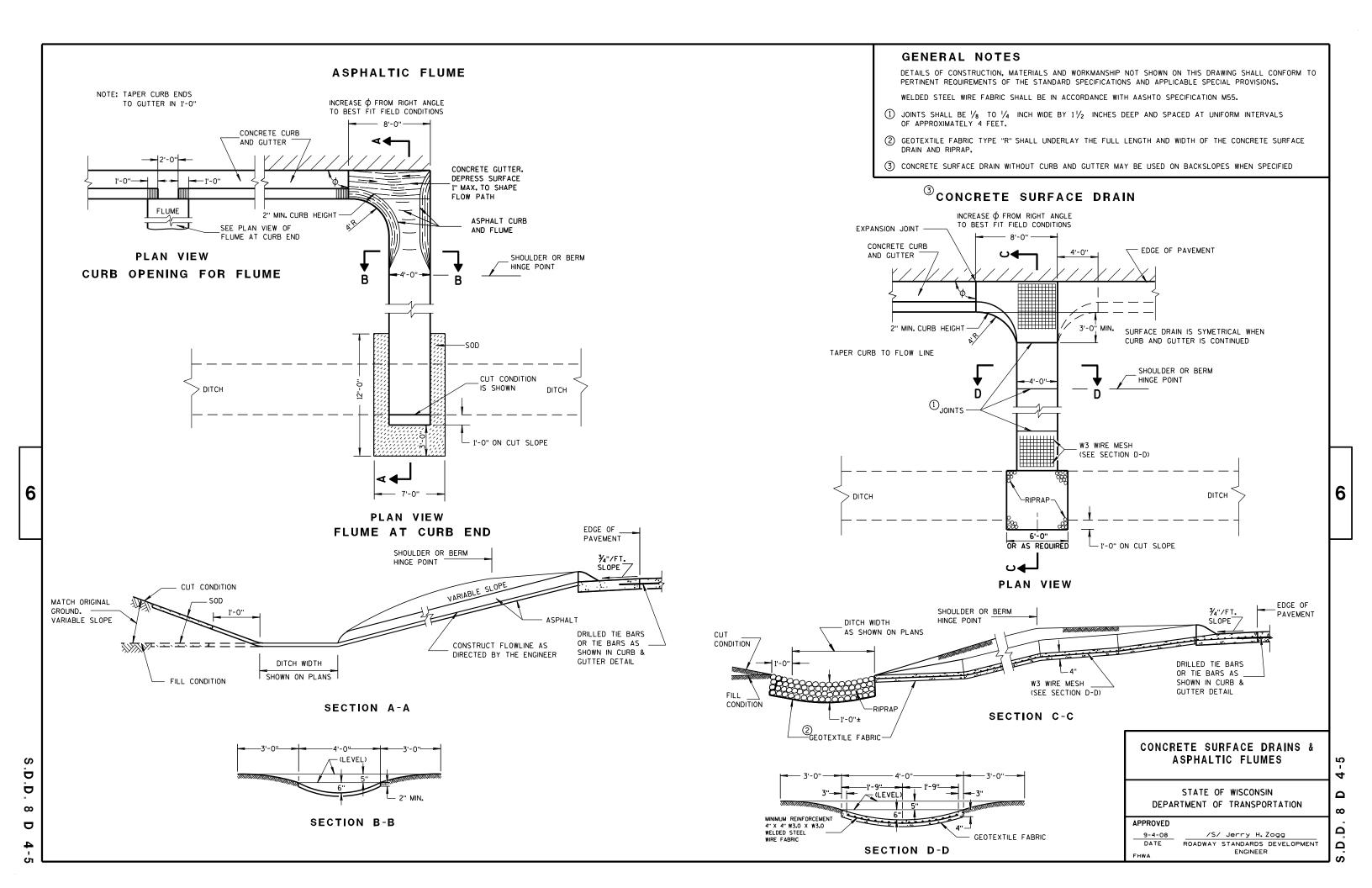
FHWA ENGINEER

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

SEPERATE PRECAST REINFORCED

CONCRETE BASE OPTION









INLET PROTECTION, TYPE A

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

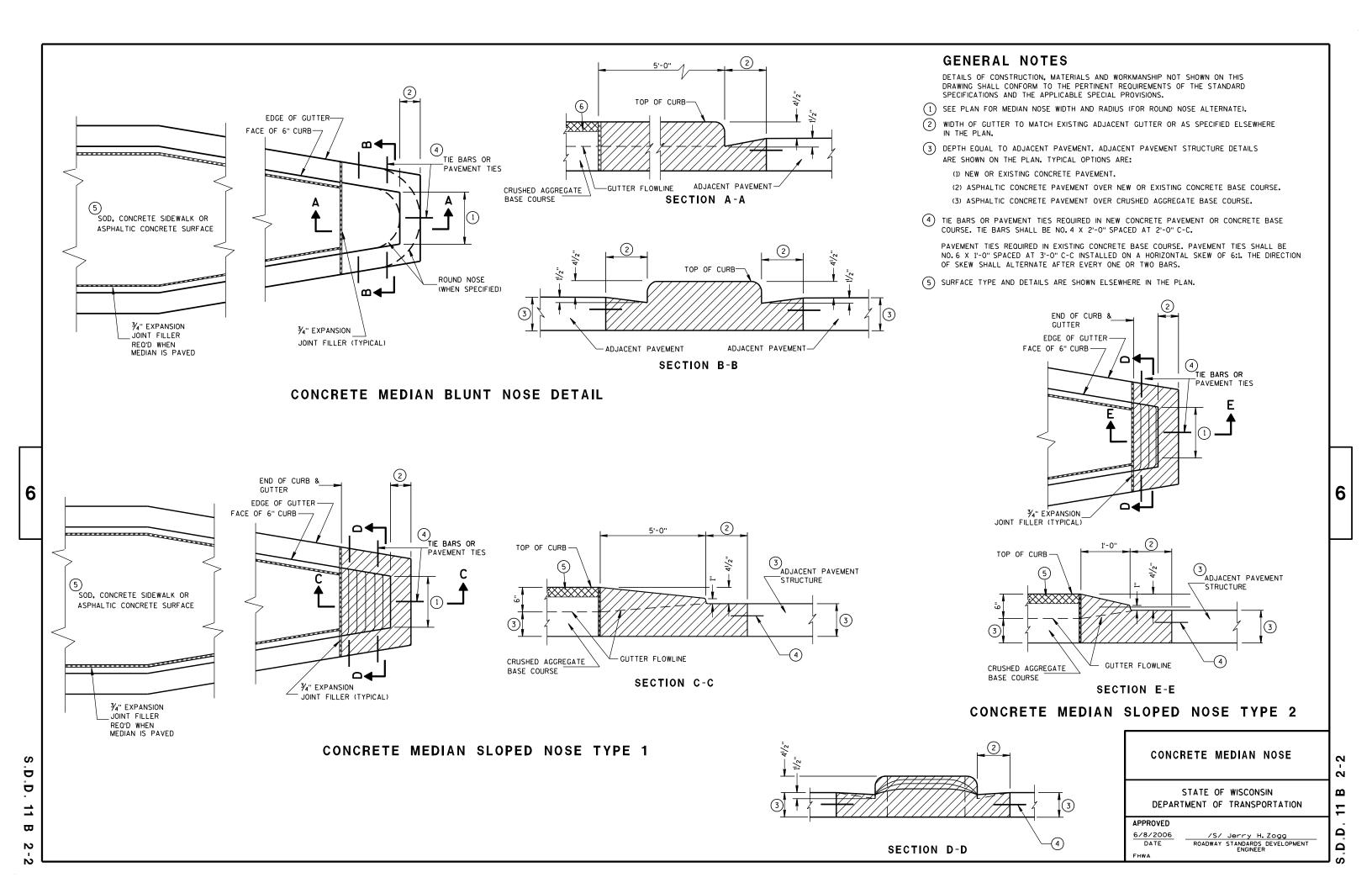
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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CONSTRUCTION JOINT

- SEE DETAIL "A" PAVEMENT SURFACE · 🛆

SAWED JOINT

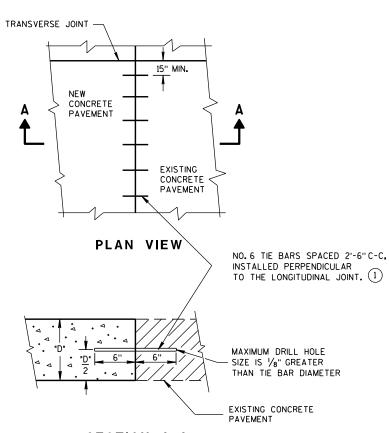
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

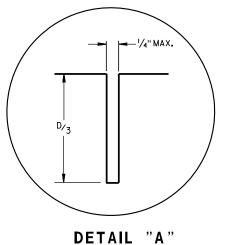
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

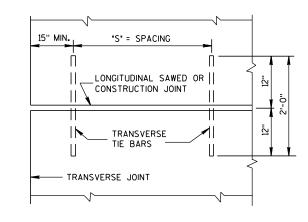
1 ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



SECTION A-A LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



PAVEMENT DEPTH "D"	CLEAR COVER	MAXIMUM TI SPACING PAVEMENT 24'OR 26'	
6, 6 1/2"	3"± ¹ / ₂ "	48"	42"
7,7 1/2"	3 ½"±1"	45"	36"
8, 8 1/2"	3 ¾"±1"	39"	30"
9,9 ½"	4 ½"±1"	33"	27"
10, 10 1/2"	4 ¾"±1"	30"	24"
11, 11 1/2"	5 ¼"±1"	27"	21''
12"	5 ¾"±1"	24"	21''



PLAN VIEW SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT					
LONGITUDINAL	JOINTS	AND	TIES		

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED					
10-5-2010	/S	/ Deb	Ві	schoff	
DATE	PAVEMENT	POLICY	&	DESIGN	ENGINEER

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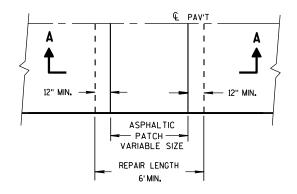
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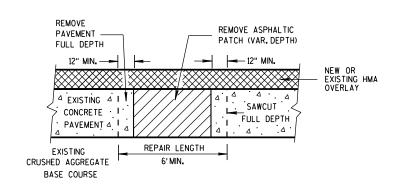
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1) DOWEL BARS MIGHT NOT EXIST.

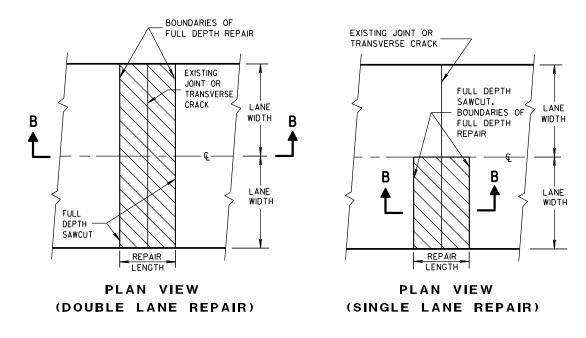


PLAN VIEW



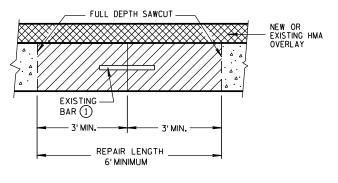
SECTION A-A

HMA PATCH REMOVAL



FULL DEPTH CONCRETE PAVEMENT REMOVAL

(SEE NOTE)



SECTION B-B

CONCRETE REMOVAL

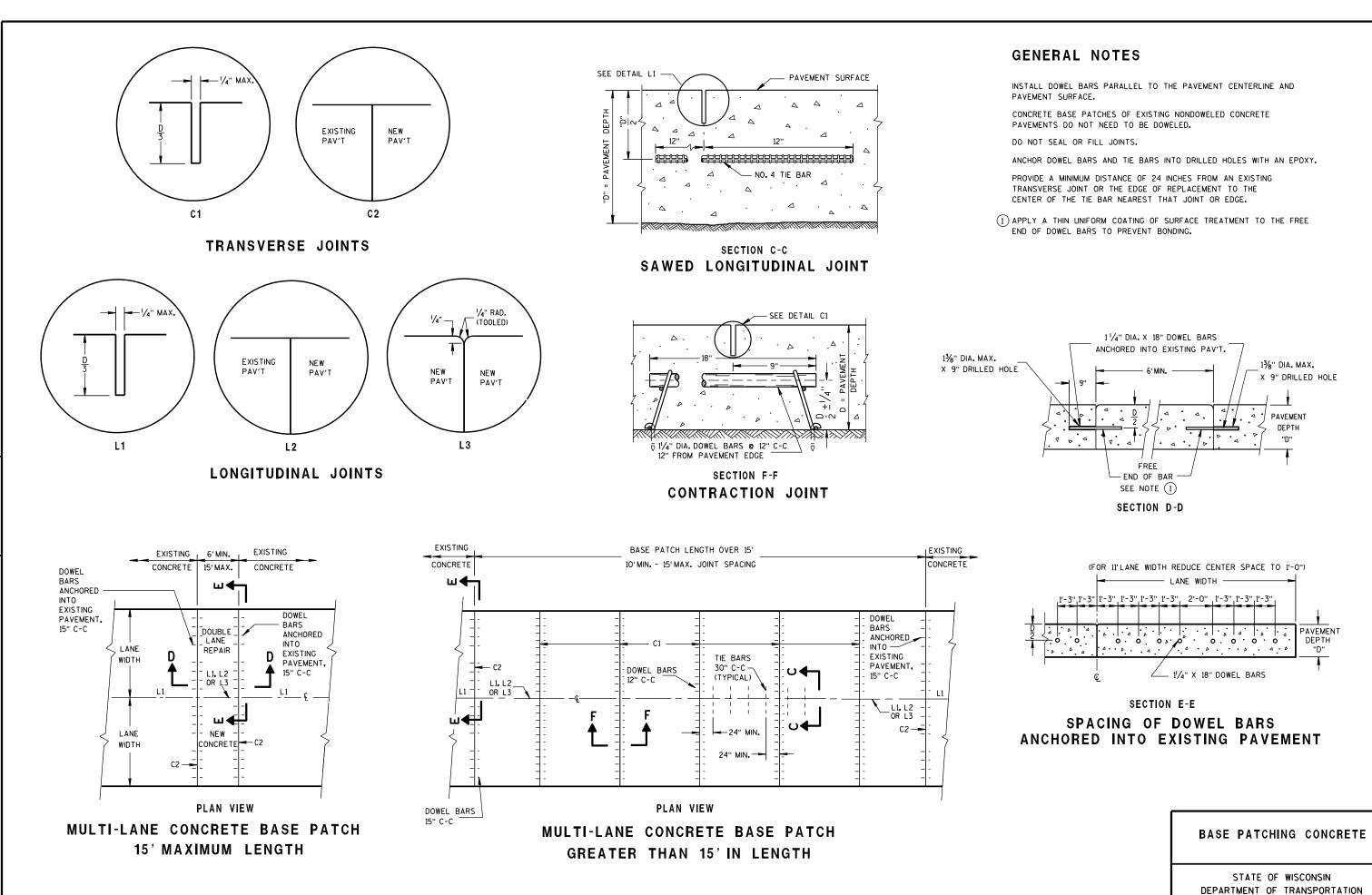
BASE PATCHING CONCRETE

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



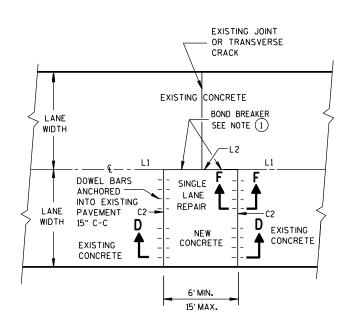
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TIE BARS ANCHORED INTO EXISTING PAVEMENT

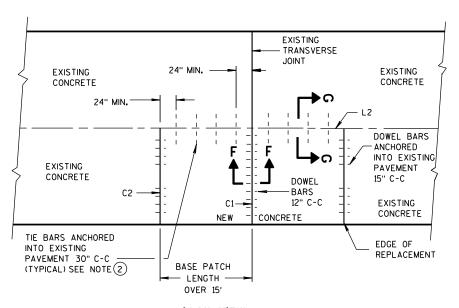
SECTION G-G



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH

15' MAXIMUM LENGTH



PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
GREATER THAN 15' IN LENGTH

GENERAL NOTES

- (1) USE AN ENGINEER-APPROVED BOND BREAKER FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.
- 2 WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

BASE PATCHING CONCRETE

STATE OF WISCONSIN
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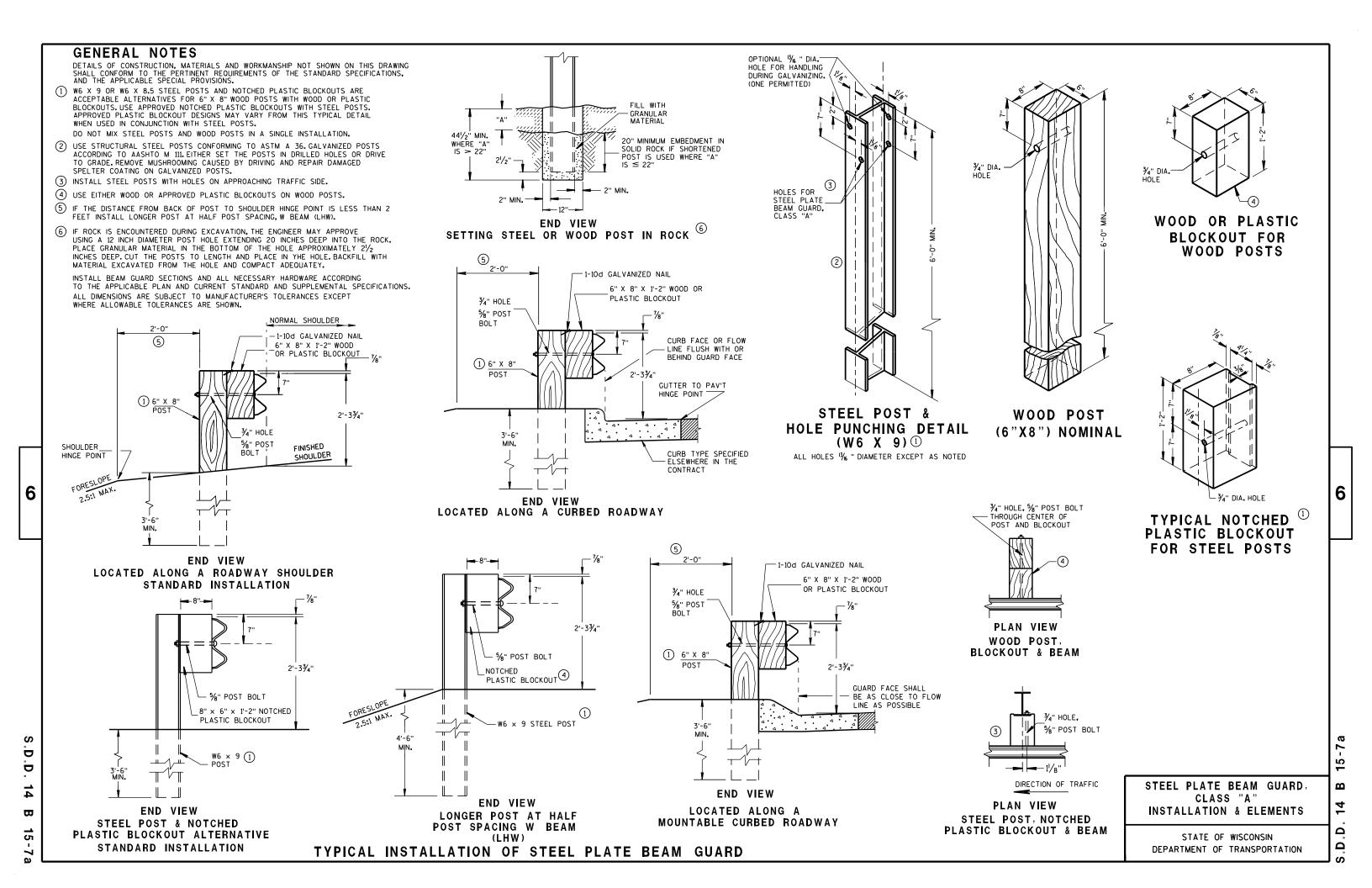
APPROVED

| 12-II-2009 | /S/ Deb Bischoff | PAVEMENT POLICY & DESIGN ENGINEER

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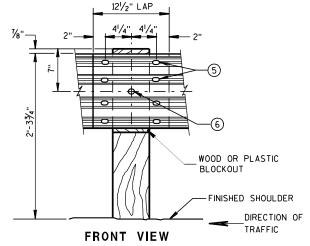
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POST SPACING STANDARD INSTALLATION

SYMMETRICAL TABOUT € ∕-12 GAGE

SECTION THRU W BEAM



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

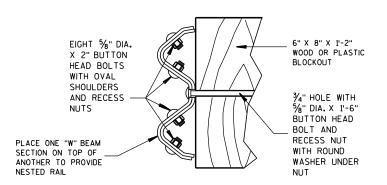
GENERAL NOTES

- 1 PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
- 2 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- 3 REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- 4 PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (5) 8 % " ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 6 $\frac{1}{8}$ " ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.

12½" LAP $\frac{3}{4}$ " × $2\frac{1}{2}$ " POST BOLT SLOT . Ç POST BOLT SLOT " × 1 1/8" NOTCHED SPLICE BOLT SLOT PLASTIC -BLCKOUT DIRECTION OF TRAFFIC

FRONT VIEW BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

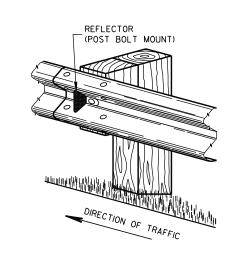
	-	12'-6" OF		-	l
		EFFECTIVE LEN	IGTH OF BEAM		
	3'-1 ¹ / ₂ " C-C	3'-1 ¹ / ₂ " C-C	3'-1½" C-C	3'-11/2" C-C	
İ	POST SPACING	POST SPACING	POST SPACING	POST SPACING	
				•	
	-	-	+ +		2'-3¾''
	FINIS	HFD		DIRECTIO	
		JLDER	•	TRAFFIC	-

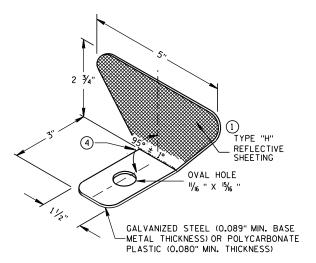
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

REFLECTOR SPACING

			0	
	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY	< 200'	50' C-C	1	3
TRAFFIC	> 200'	100, C-C	1	
TWO WAY	< 200'	25' C-C	1(3)	6
TRAFFIC	> 200'	50' C-C	1 🔍	
TWO WAY	< 200'	50' C-C	2(4)	3
TRAFFIC	> 200'	100' C-C	2 4	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

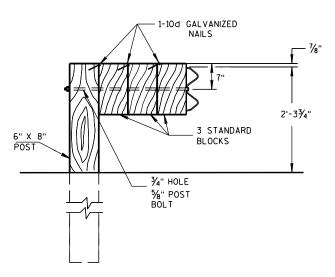
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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- 1-10d GALVANIZED NAILS



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

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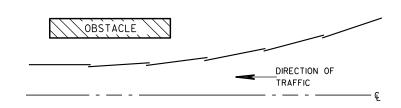
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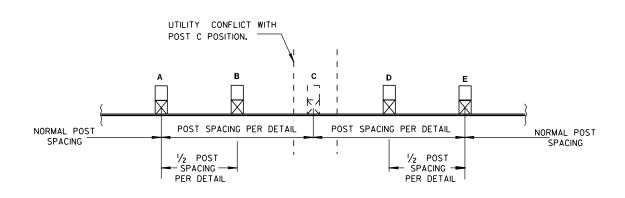
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DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

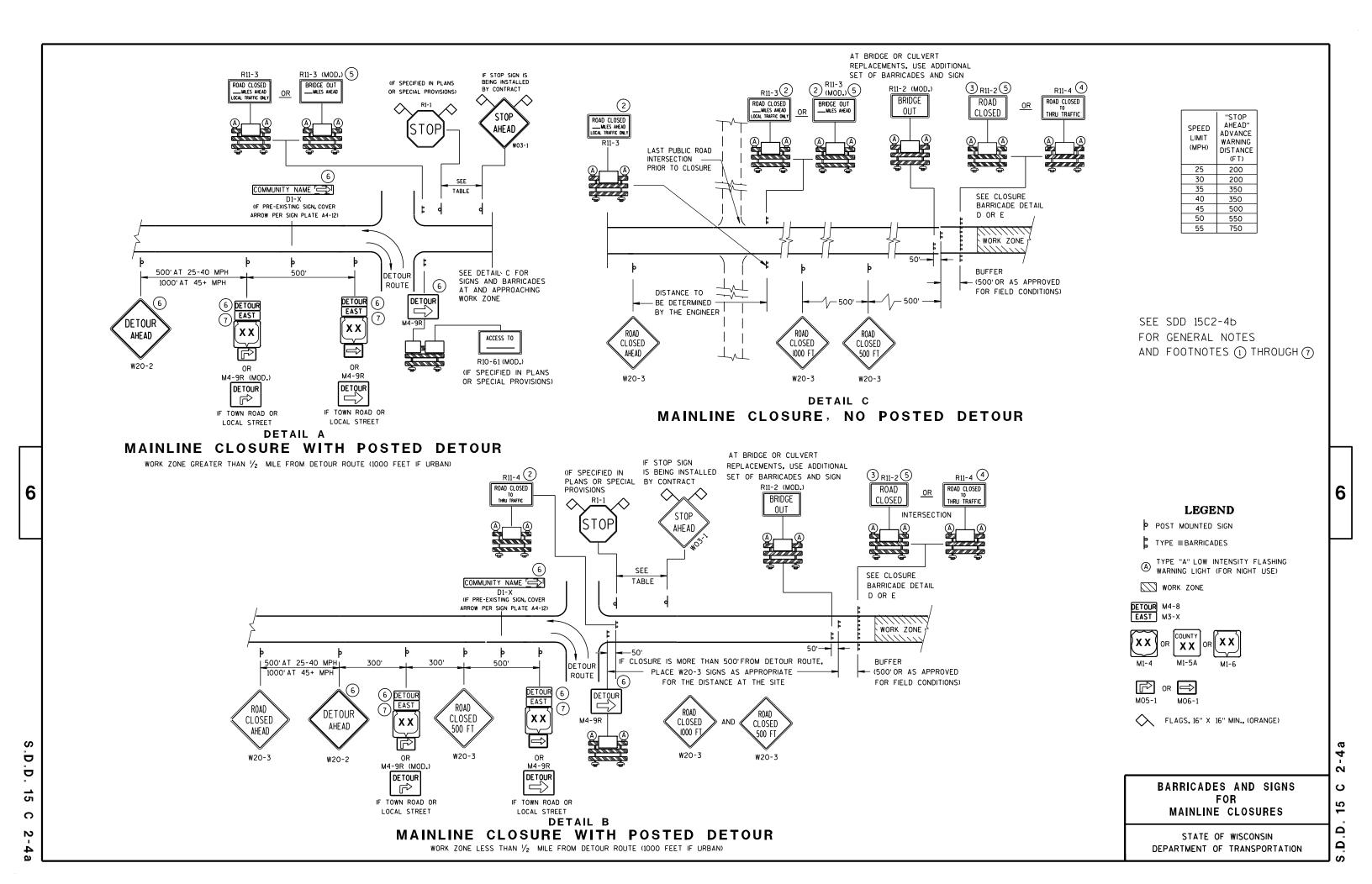
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

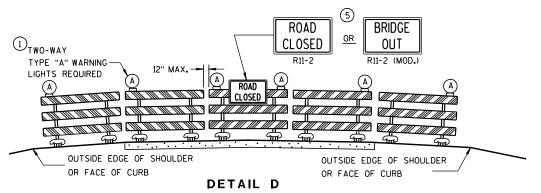
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5/23/II
DATE
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14

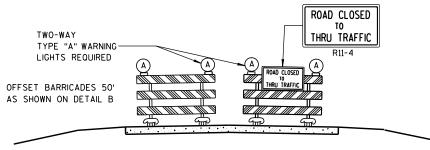
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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-4a 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.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"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 AND 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 LIGHT SPACING).
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE 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.

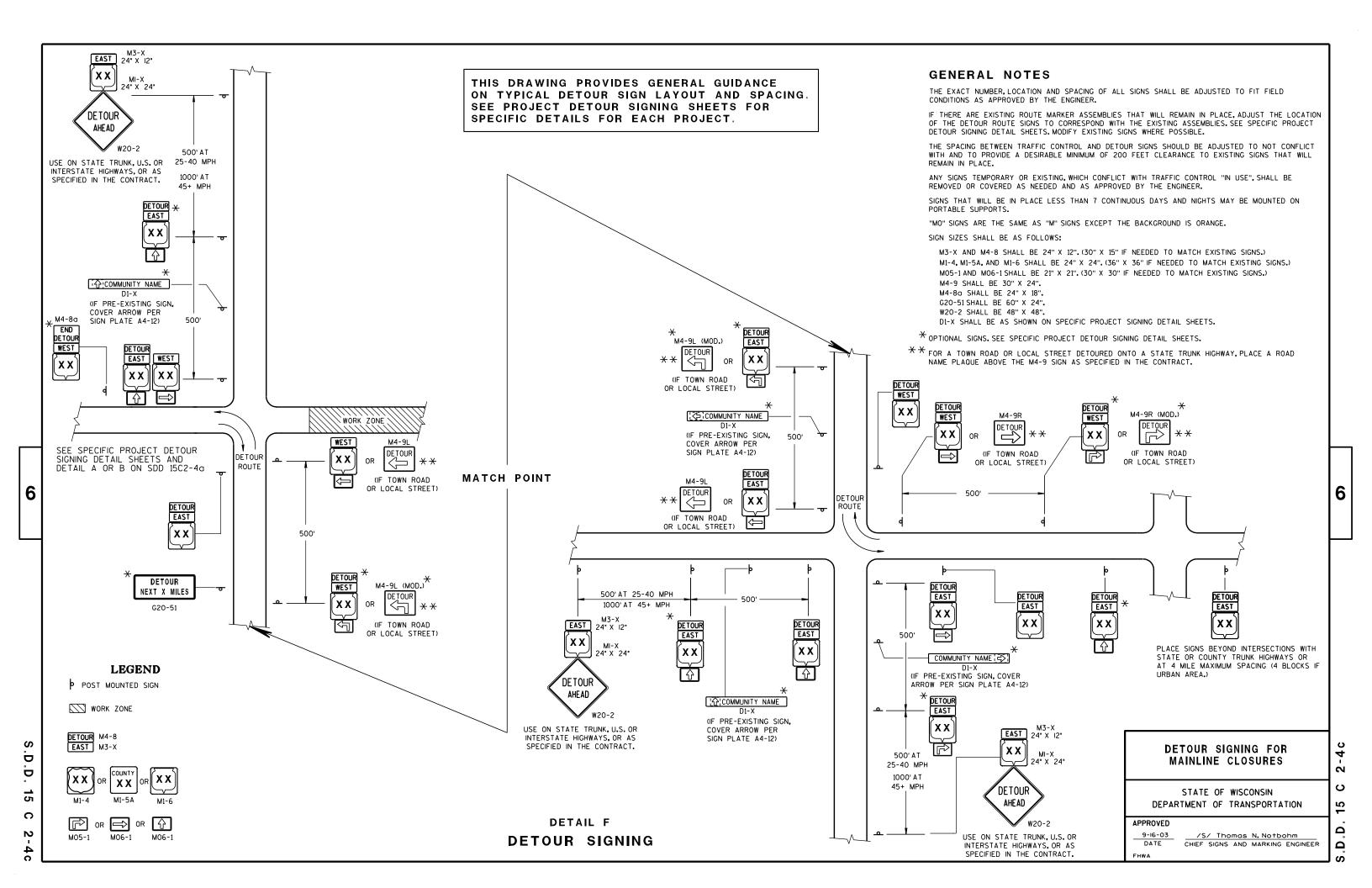
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

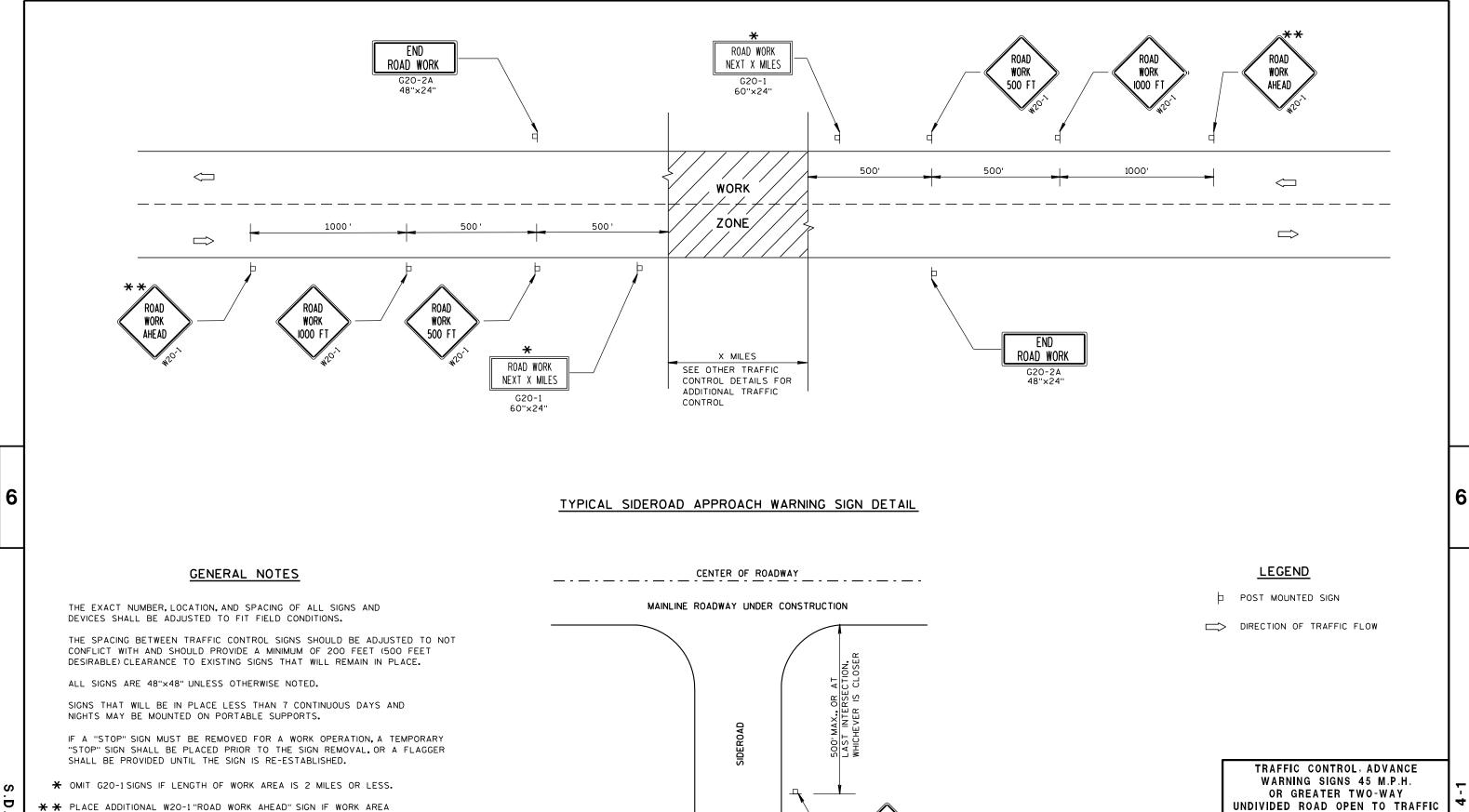
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Thomas N. Notbohm
CHIEF SIGNS AND MARKING ENGINEER

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STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER

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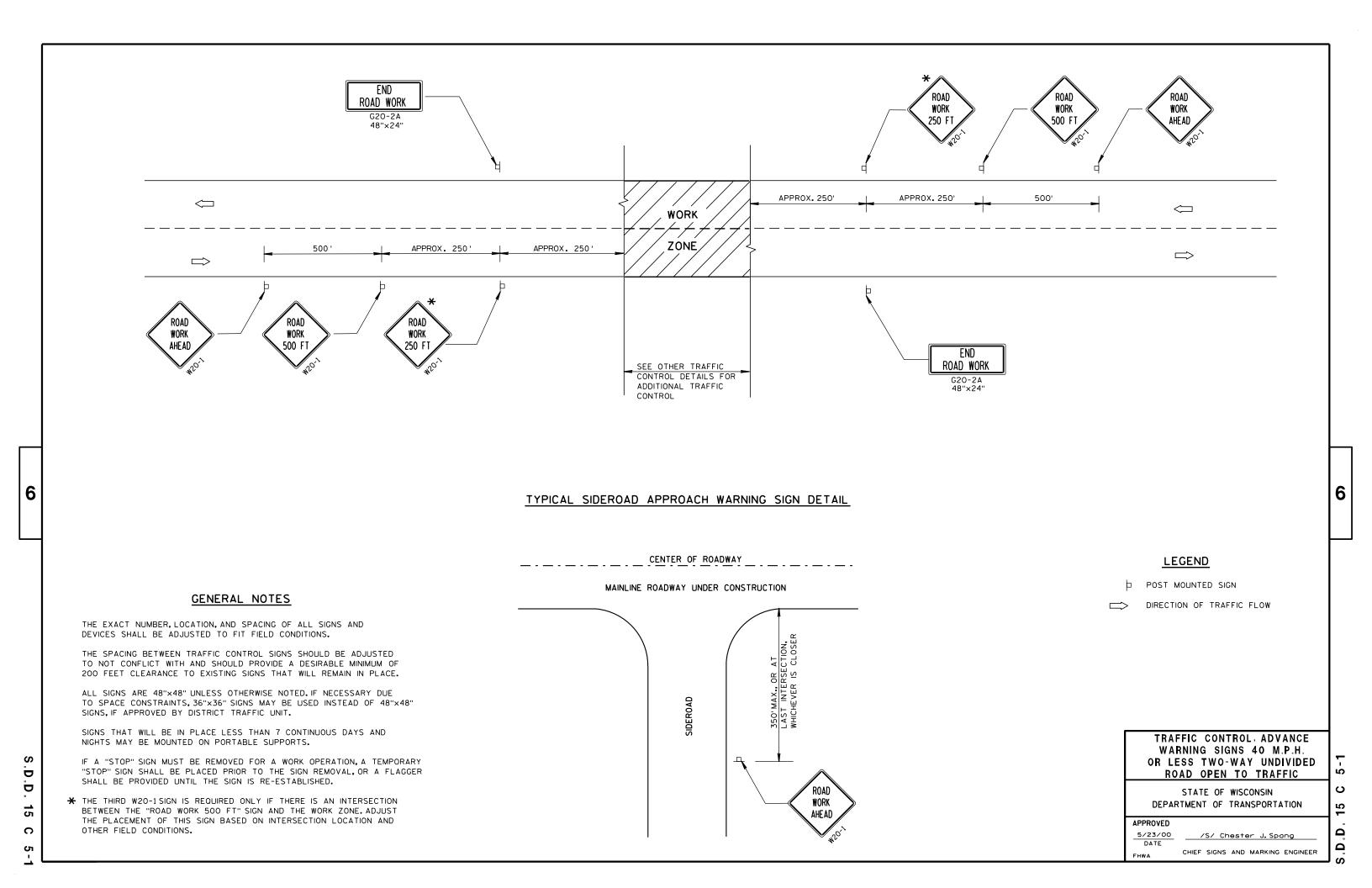
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WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM

PREVIOUS WORK AREA OR SIGNING.

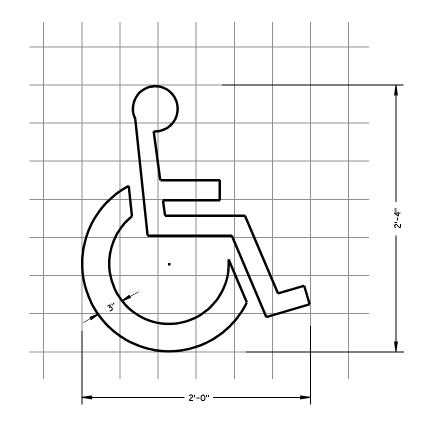


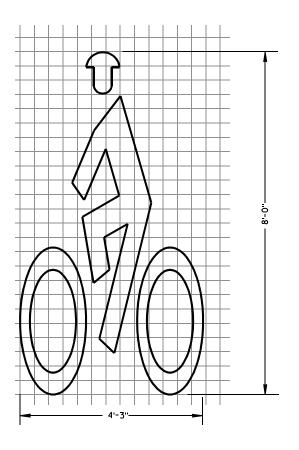
GENERAL NOTES

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

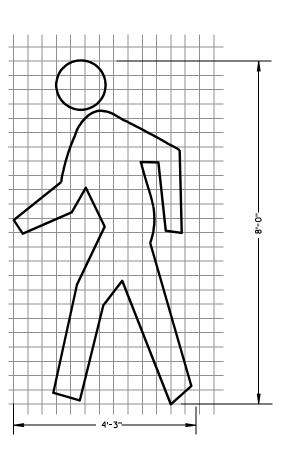
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

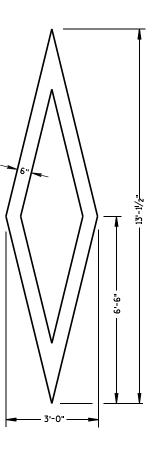




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

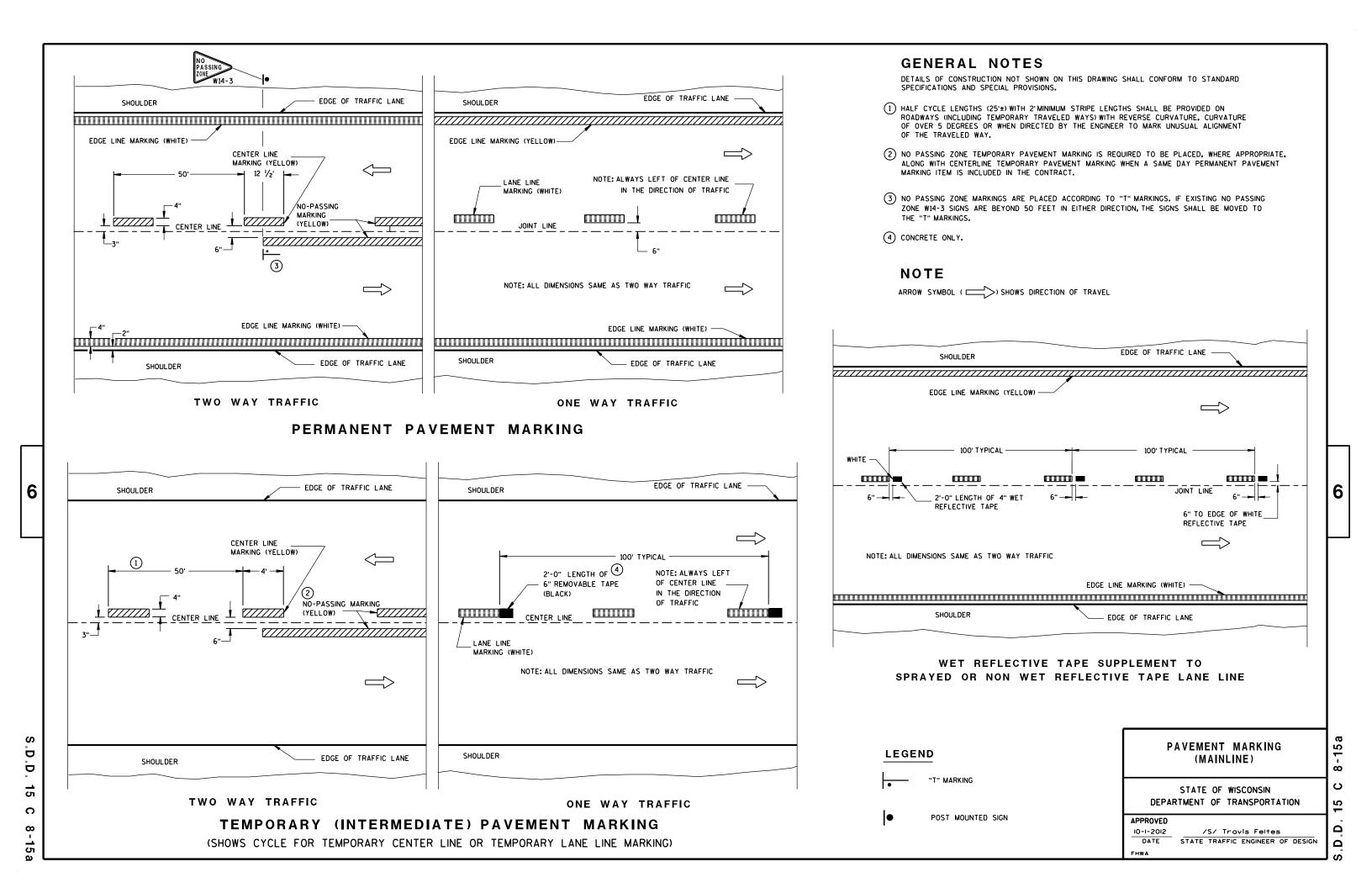
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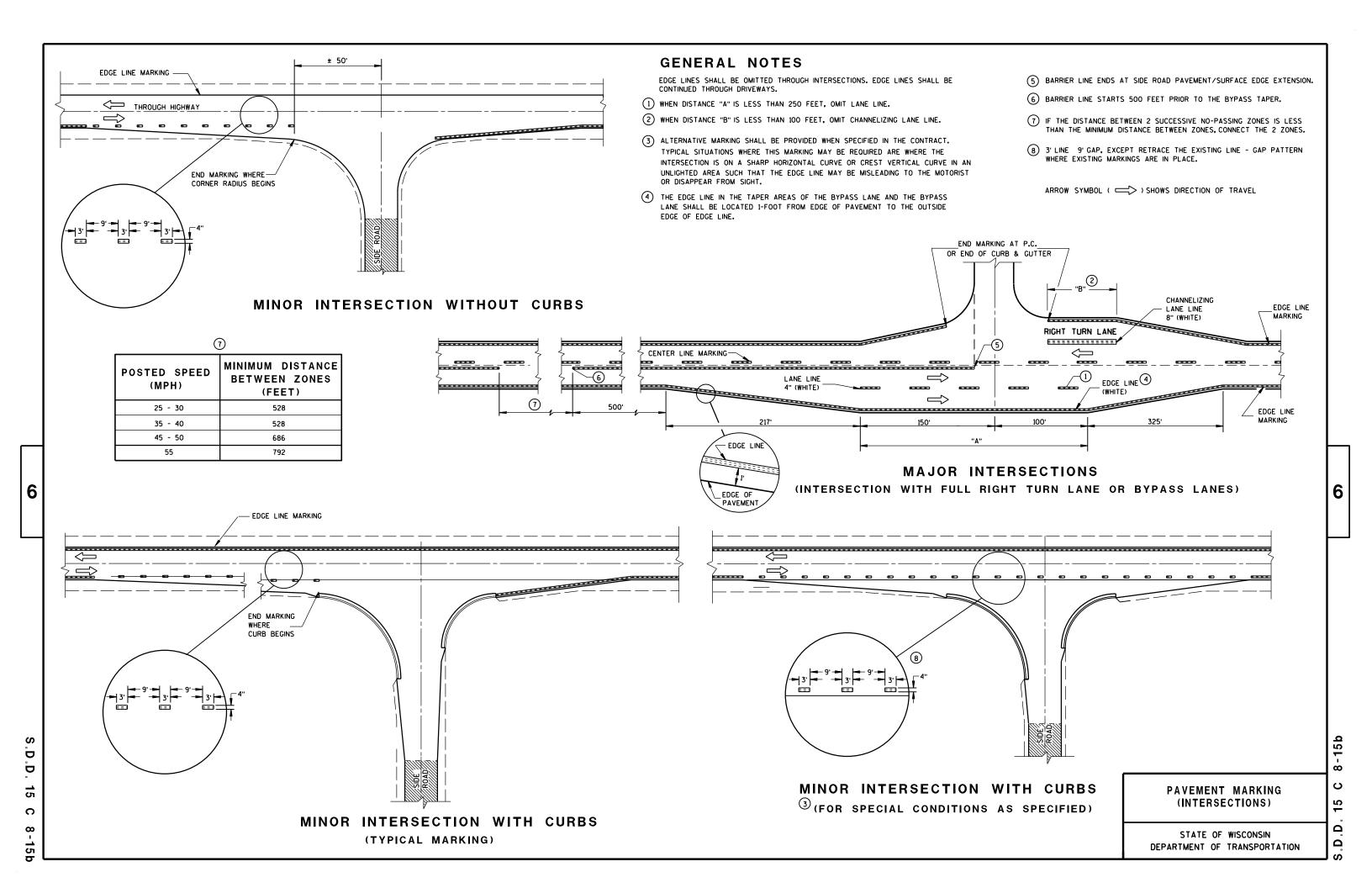
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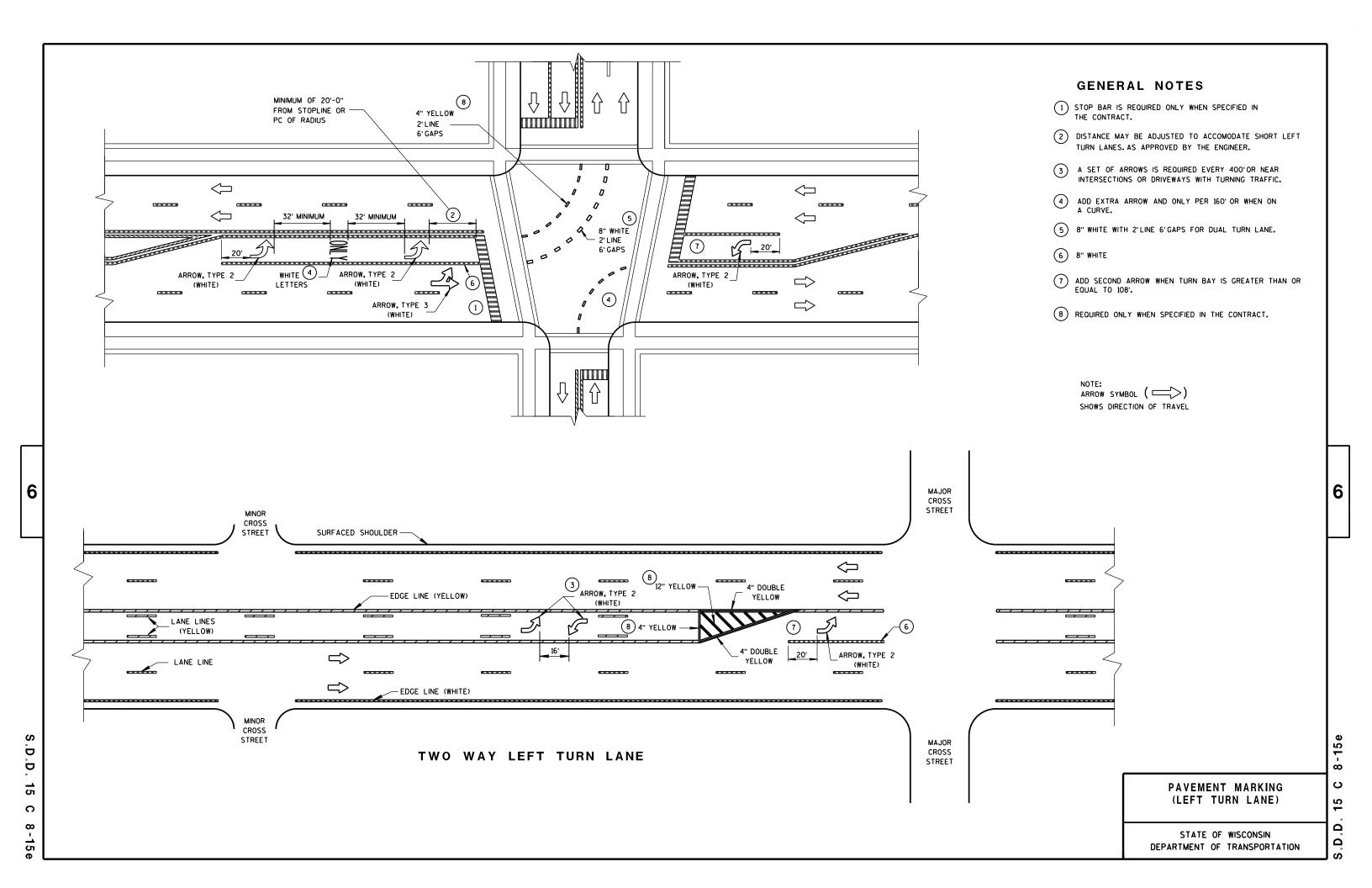
/S/ Thomas N Notbohm STATE TRAFFIC ENGINEER OF DESIGN 6

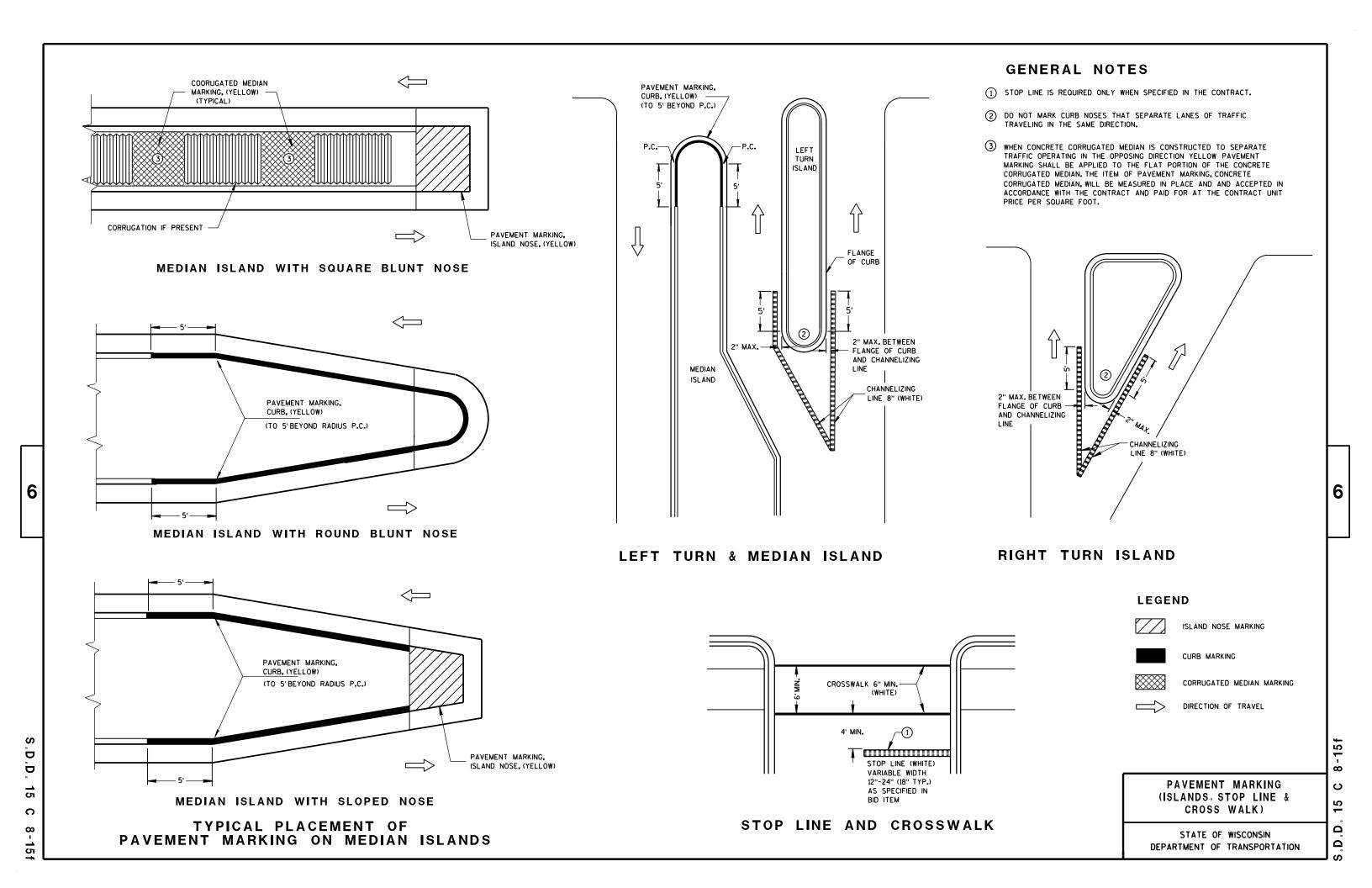
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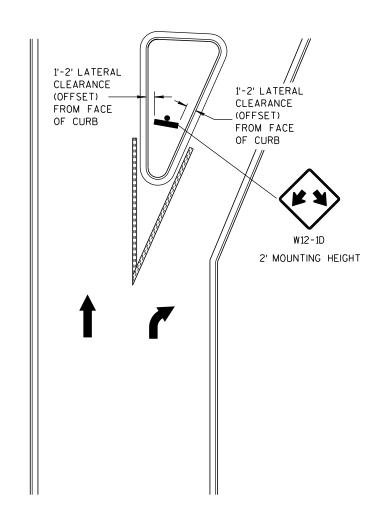
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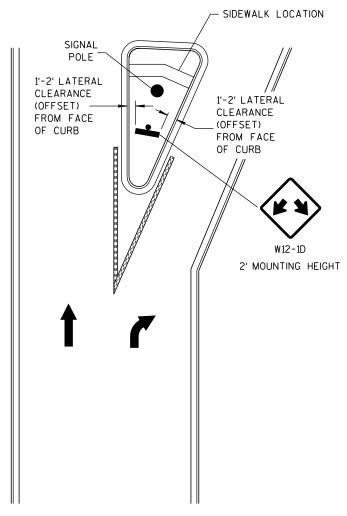




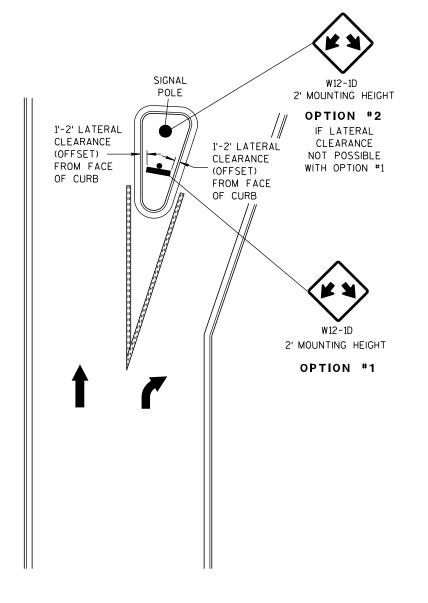




LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT

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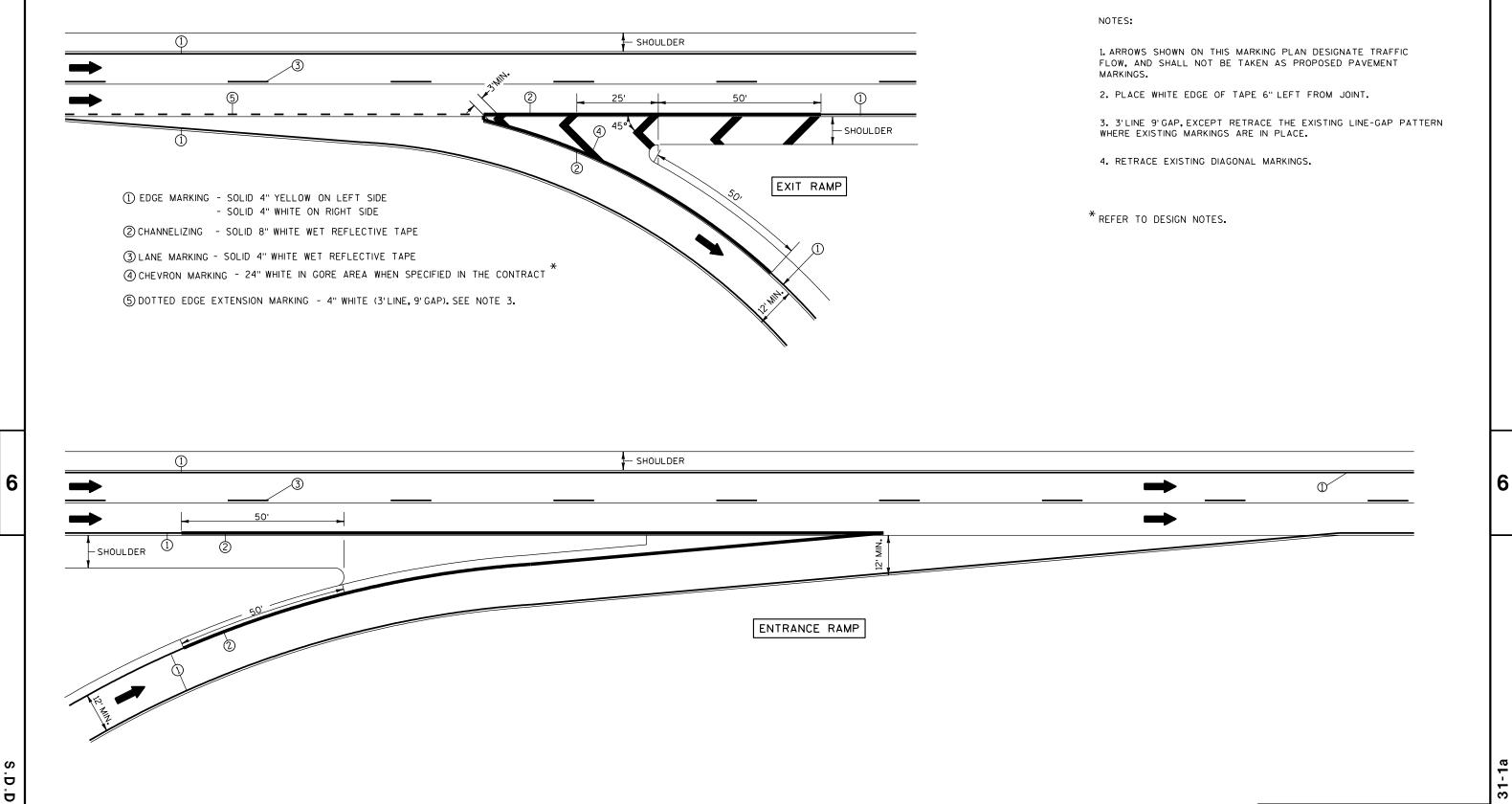
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN 10-22-08

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (RAMPS AND GORES)

LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN
- ✓ DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- → ARROW BOARD
- 8' TYPE III BARRICADE
- * x * REMOVING PAVEMENT MARKING
- □⇒ DIRECTION OF TRAFFIC

GENERAL NOTES:

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

(1) CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

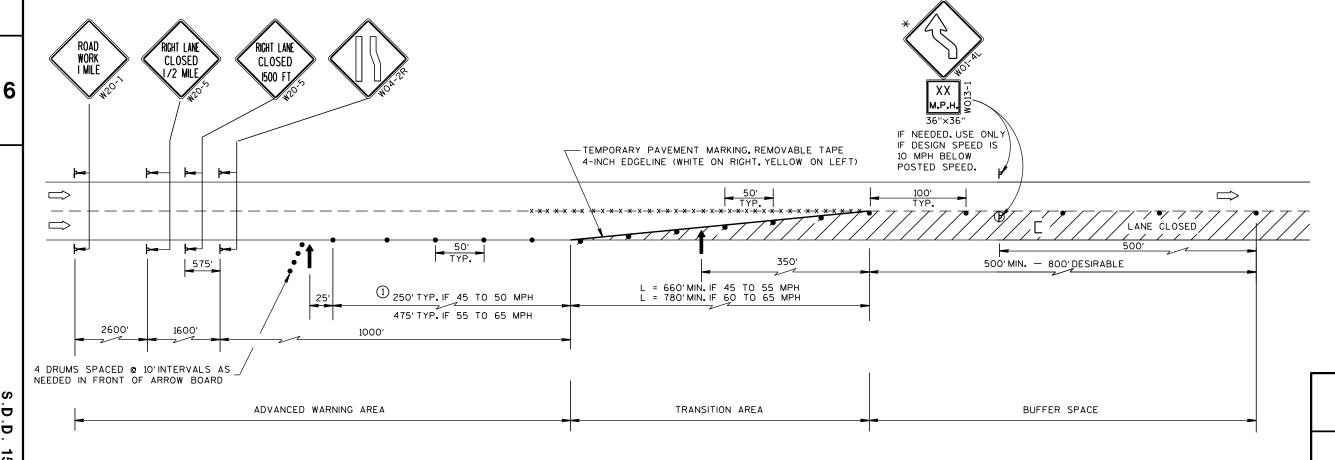
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8-7-95

DATE

/S/ Chester J. Spang
DIRECTOR, OFFICE OF TRAFFIC

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I L/L TYPE III BARRICADE (8' EQUIVALENT)
WITH/WITHOUT SIGN

DRUM

POST MOUNTED SIGN

(A) WARNING LIGHT, TYPE A (FLASHING)

DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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

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" X 48" UNLESS OTHERWISE NOTED.

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

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.

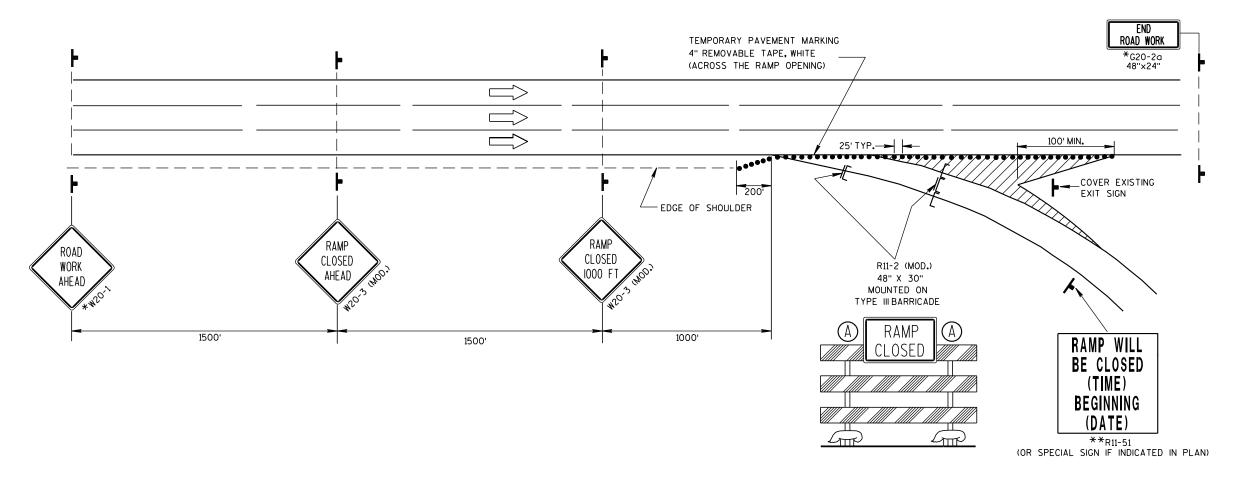
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE, DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

*W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

**USE THE "RAMP WILL BE CLOSED" SIGN IF INDICATED IN MISCELLANEOUS QUANTITIES. PLACE 10 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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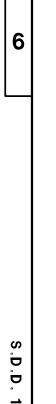
APPROVED

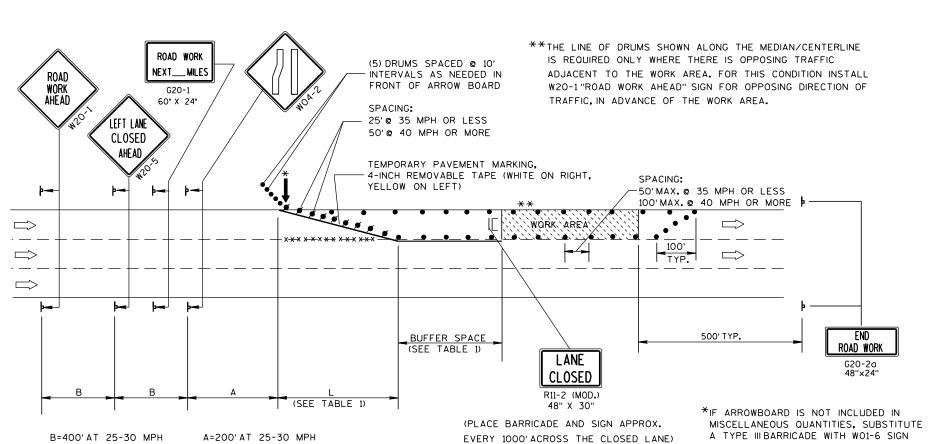
5/23/2000
DATE
/S/ Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER



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W01-6 48"×24"

IN THE LANE CLOSURE TAPER.

TABLE 1 TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

700'AT 35-40 MPH

1000' AT 45-55 MPH

s	L	BUFFER Space				
25	125'	55'				
30	180'	85'				
35	245'	120'				
40	320'	170'				
45	540'	220'				
50	600'	280'				
55	660'	335'				

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

 $L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

350' AT 35-40 MPH

500' AT 45-55 MPH

W = WIDTH OF LANE CLOSURE

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE, FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

LEGEND

DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)

POST MOUNTED SIGN

ARROW BOAR

TYPE III BARRICADE (8'EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN

□
 DIRECTION OF TRAFFIC FLOW

XXXX REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

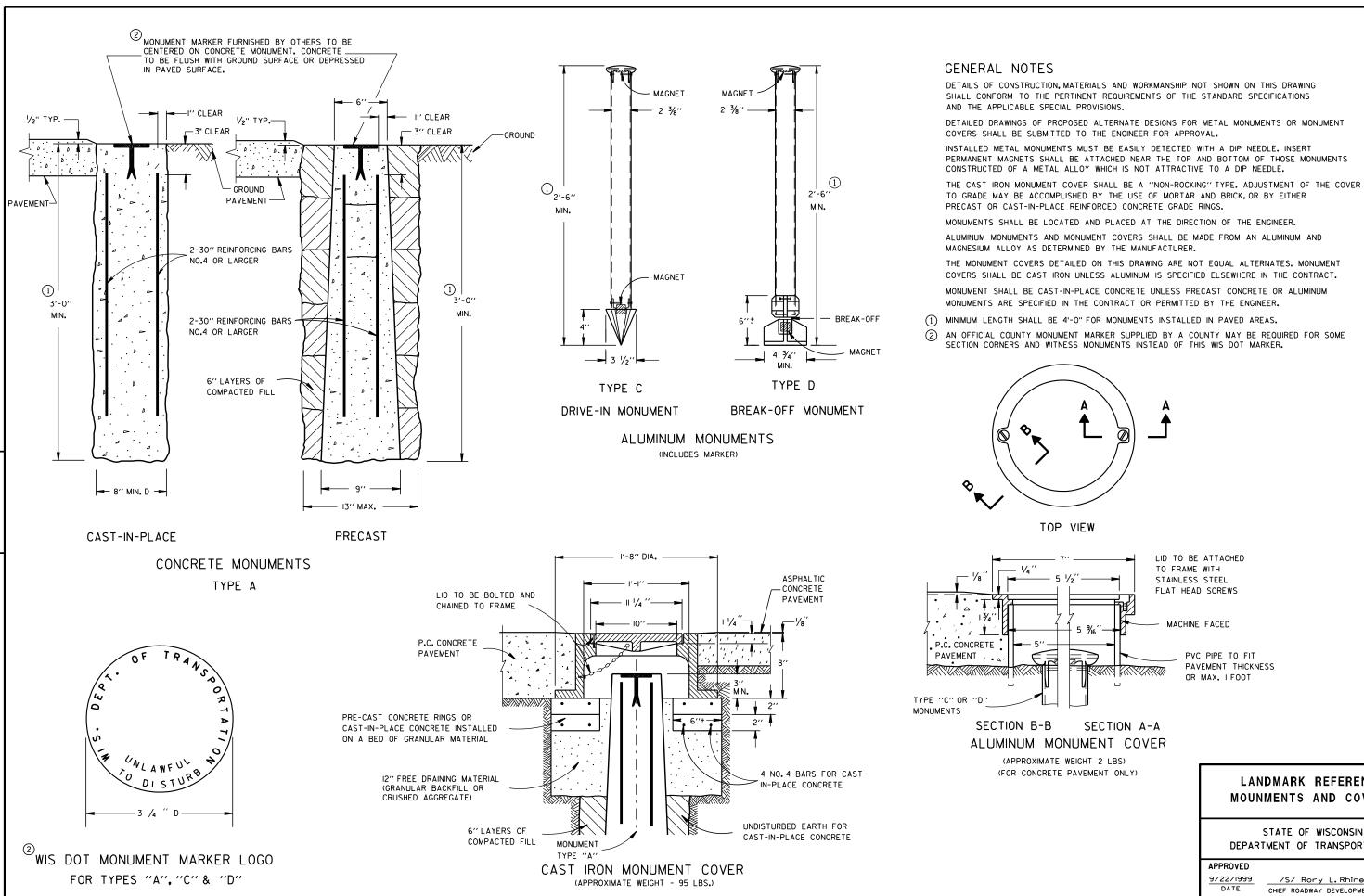
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00 /S/ Chester J. Spang

CHIEF SIGNS AND MARKING ENGINEER

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LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

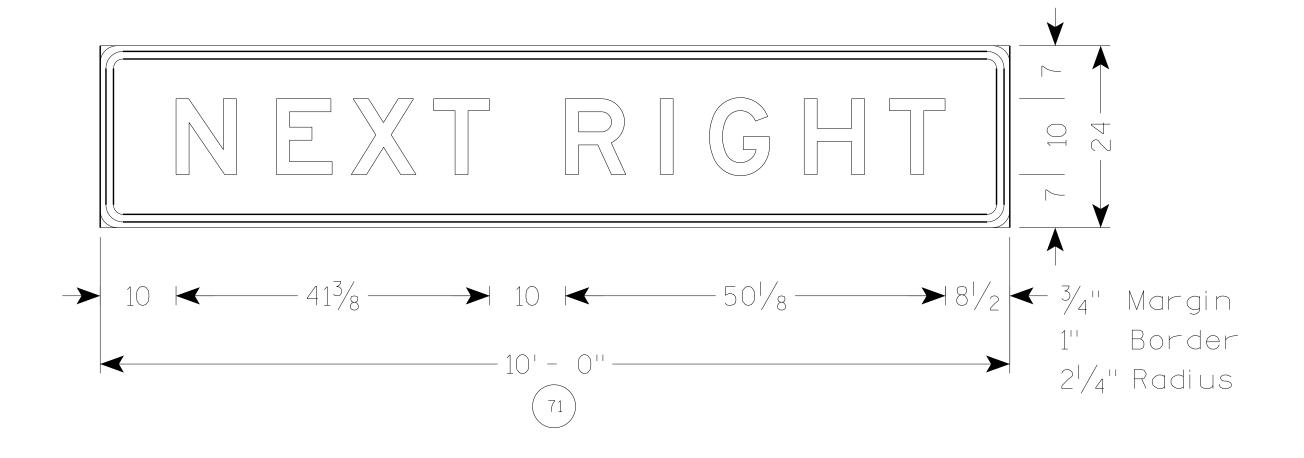
/S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

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

Background - ORANGE Message - BLACK

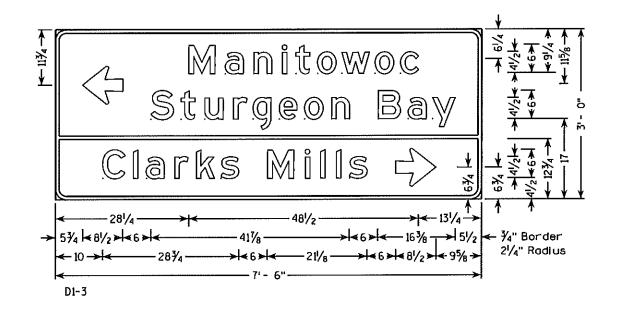
3. Message Series - E

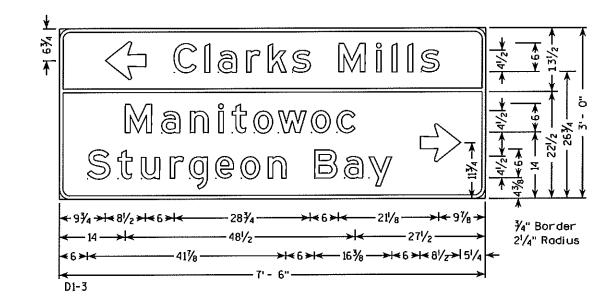


PLAN SHEET PRODUCED BY WisDOT-NE REGION

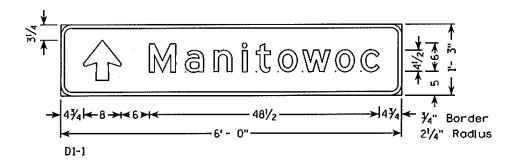
Ε

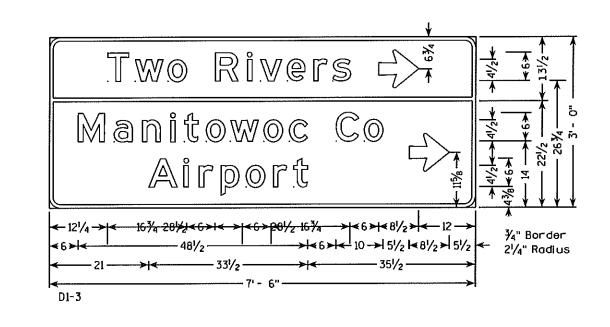
PROJECT NO: 1500-34-71 HWY:USH 10/STH 42 COUNTY: MANITOWOC TEMPORARY SIGNING SHEET NO: FILE NAME : L:\410640 CCAD JV\JV#05\070101_sd.dgn PLOT DATE: 10/9/2012 PLOT BY : soufalk PLOT NAME : PLOT SCALE: 1:12.6641 WISDOT/CADDS SHEET 42





- 1. All Signs Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: Background - GREEN Message - WHITE
- 3. Message Series E





PROJECT NO: 1500-34-71

HWY: USH 10

COUNTY: MANITOWOC

PERMANENT SIGNING

PLOT NAME :

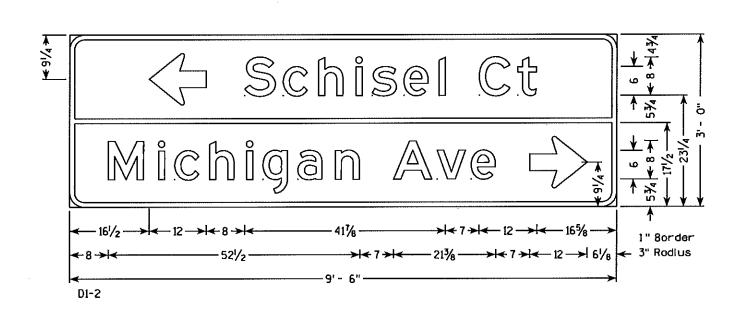
SHEET NO: PLOT SCALE: 19.649111:1.000000

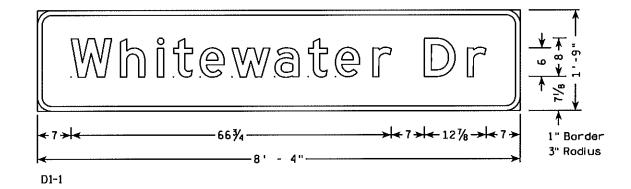
WISOOT/CADDS SHEET 42

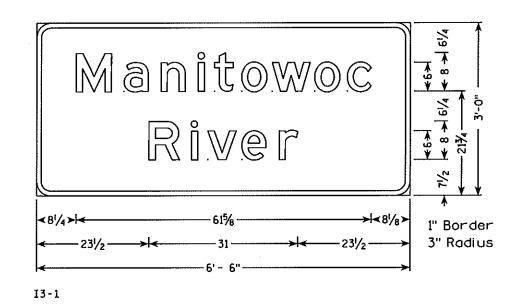
PLOT DATE: 18-MAY-2012 09:56

FILE NAME : C:\CAEFiles\Projects\tr_d3\3361A412.DGN

PLOT BY: mscsja



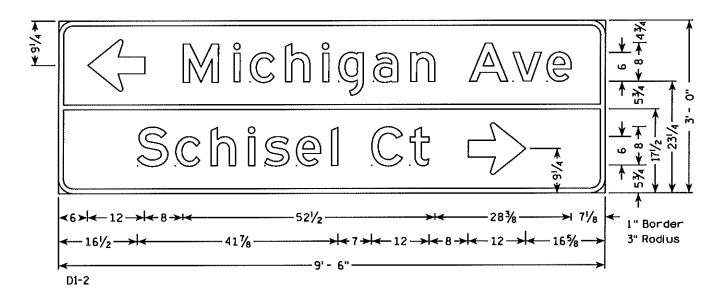


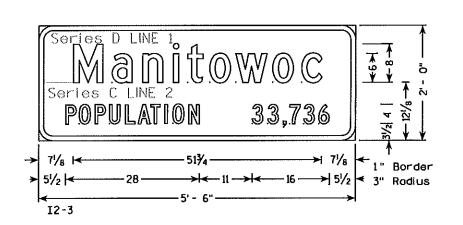


- 1. All Signs Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E except as Shown





FILE NAME: N:\spo\traffic\SIGNING\Projects\1500-34-71 USH 10\3361A412.DGN

PROJECT NO: 1500-34-71

USH 10

COUNTY: MANITOWOC

PERMANENT SIGNING

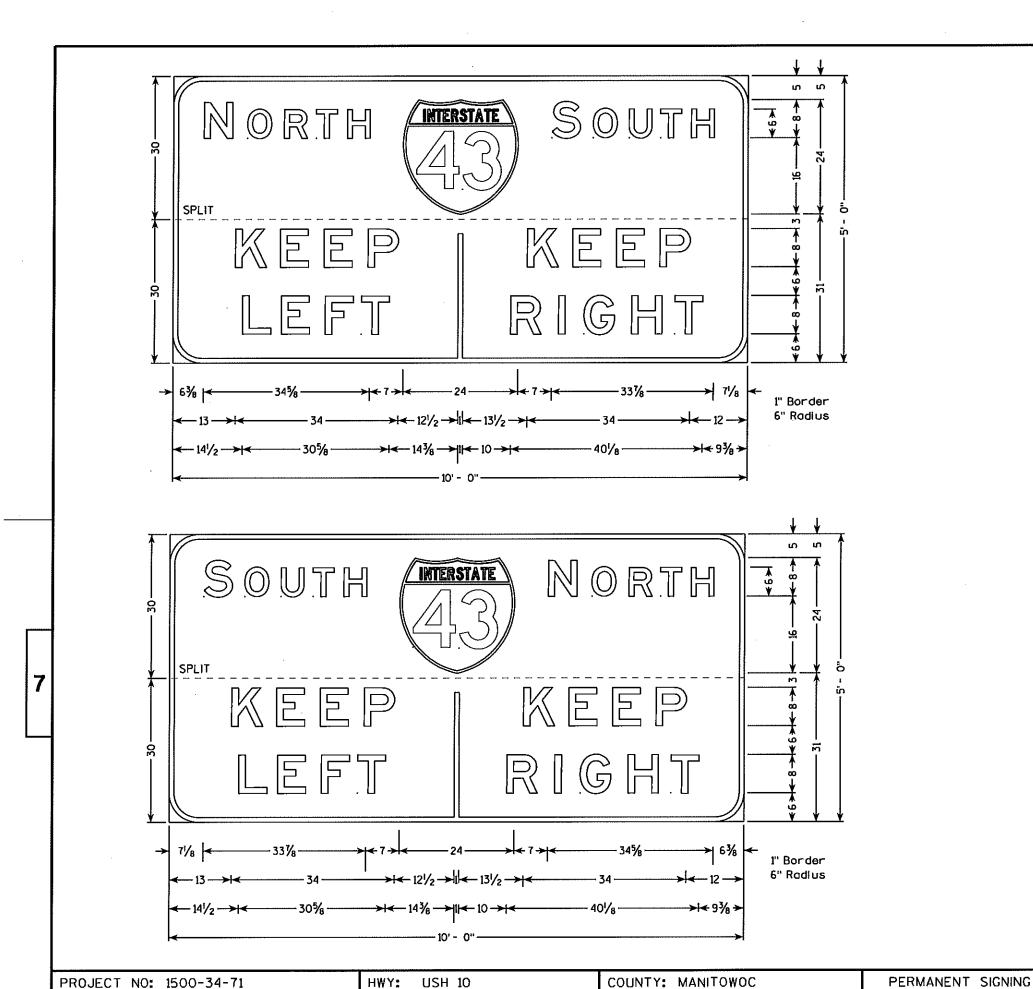
PLOT SCALE : 20:1

WISDOT/CADDS SHEET 42

SHEET NO:

PLOT DATE: 15-MAY-2012 08:00

PLOT BY : dotj1f



- 1. All Signs Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E except as Shown

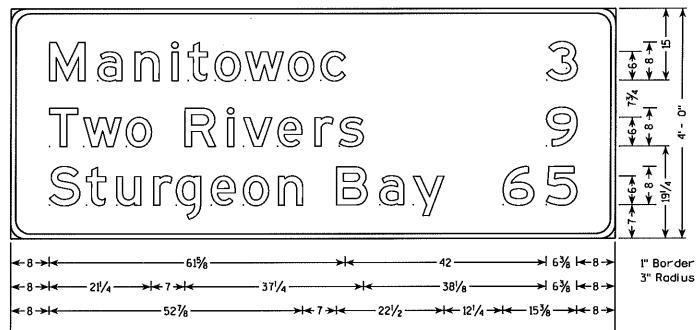
SHEET NO:

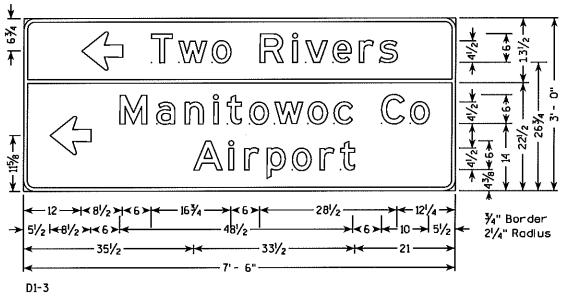
PLOT DATE: 11-0CT-2012 15:09 PLOT BY : dotj1f PLOT NAME:

- 1. All Signs Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E except as Shown





PROJECT NO: 1500-34-71

D2-3

USH 10 HWY:

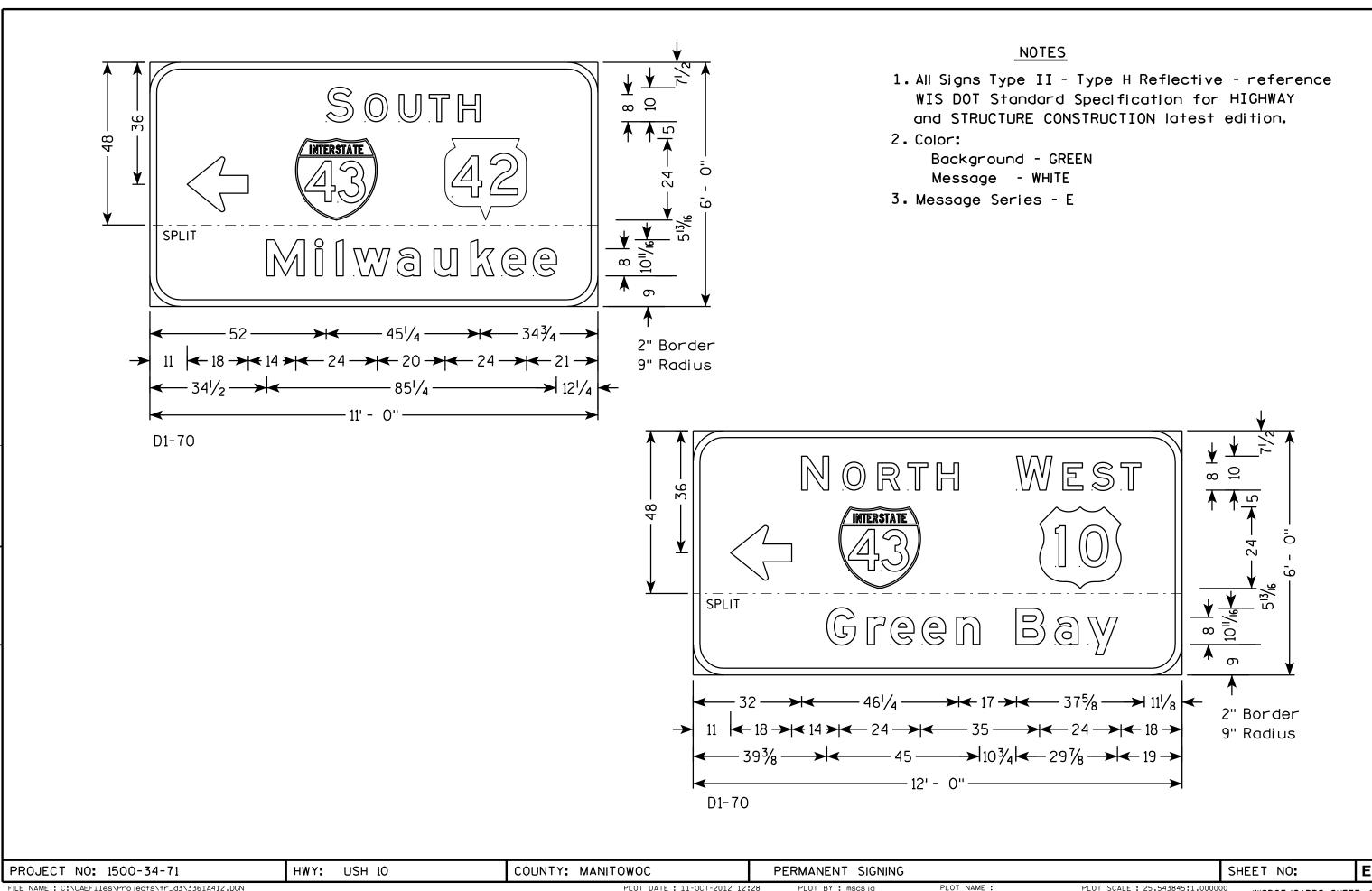
COUNTY: MANITOWOC

PERMANENT SIGNING PLOT BY : dotj1f

PLOT NAME :

SHEET NO:

Ε

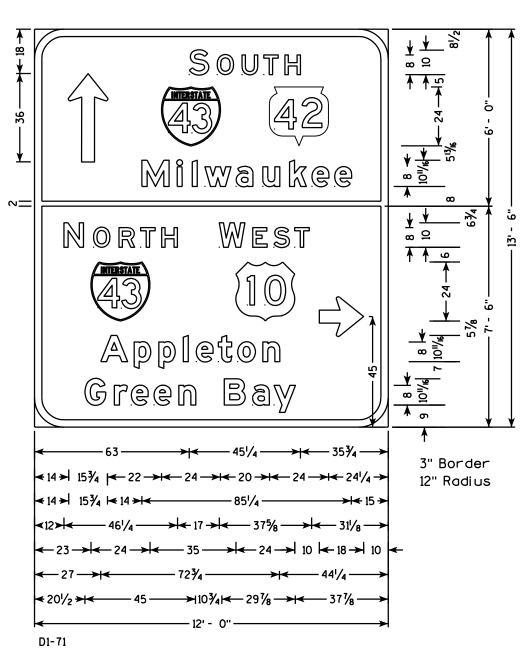


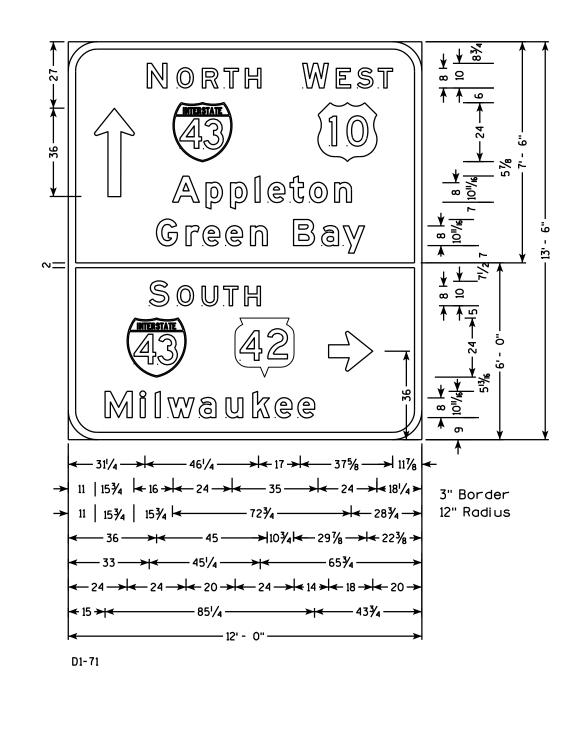
1. All Signs are Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Green Message - White

3. Message Series - E Modified except Cardinals are Series E





HWY: USH 10

FILE NAME : C:\CAEFiles\Projects\tr_d3\3361A412.DGN

PROJECT NO: 1500-34-71

COUNTY: MANITOWOC

PERMANENT SIGNING PLOT BY: mscsja

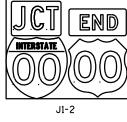
PLOT SCALE: 39.082080:1.000000

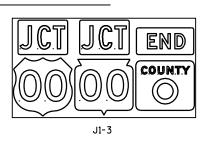
WISDOT/CADDS SHEET 42

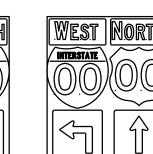
SHEET NO:

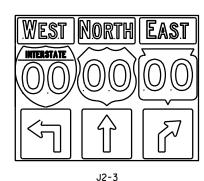
PLOT DATE: 11-OCT-2012 12:33

PLOT NAME :











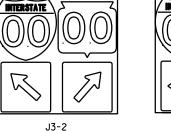
(Typical Vertical J-Assembly See Note 10 and 11)

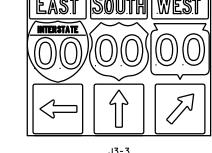


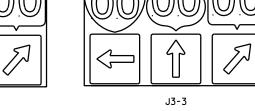
J3-1

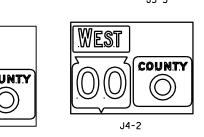


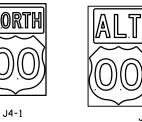
INTERSTATE

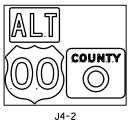


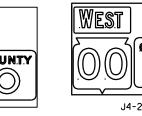










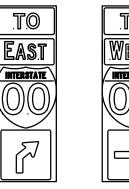




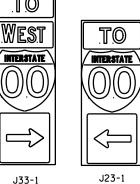
J13-1

PROJECT NO:

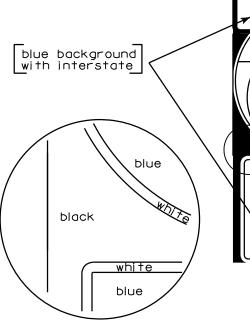
FRONTAGE ROAD



J32-1





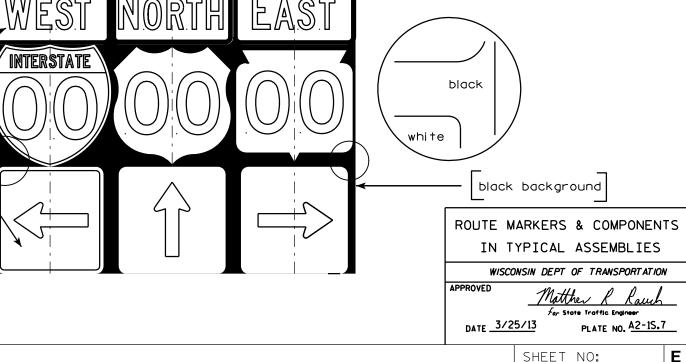


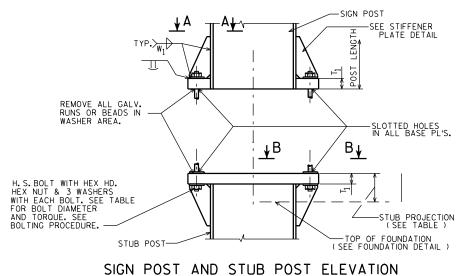
NOTES

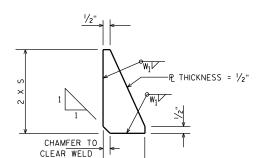
- 1. Signs are Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Black Non-reflective Message - see Note 5

- 3. Message Series See Note 5
- 4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
- 5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- 6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
- 7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- 8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- 9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- 10. All Vertical J Assemblies are given a Sign Code of JV
- 11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

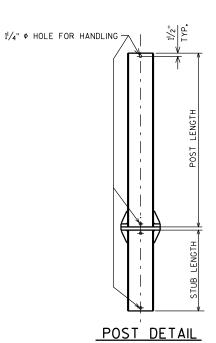






STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)





FINISHED GRADE

SHAFT LENGTH (SEE

#4 HOOPS @ 1'-0 SPA.

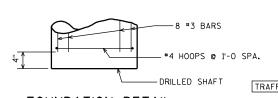
FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T. M.- B36.

HWY:

SHIM DETAIL

		QUANT	ITIES FC	R 1 FOOTIN	G
		CONC. MASONRY	C.Y.	REINF. STEEL	LBS.
	Α	0.6		34	
	В	0.8		49	
	C	0.9		50	
	D	0.9		56	
7	E	1.0		62	

		TYPE	#3	#4
		Α	8 @ 4'-5	5 @ 6'-3
		В	8 @ 6'-5	7 @ 6'-3
	REINF.	С	8 @ 6'-11	7 @ 6'-3
	R	D	8 @ 7'-5	8 @ 6'-3
7		Е	8 @ 7'-11	9 @ 6'-3



FTG. T + 1/16 1

FTG. T + 1/16

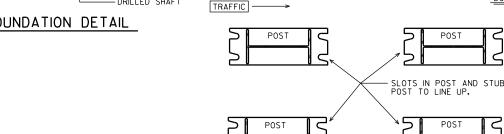
-1'-0 MIN. LAP

STUB POST

FOUNDATION DETAIL

8 #3 BARS

SECTION



(5)

SHAFT

SECTION A-A

SHAFT PLACEMENT

TRAFFIC -POST ON THE LEFT POST ON THE RIGHT POST SLOT ORIENTATION (7)

				BA	SE CON	INEC1	ION D	ΑΤΑ	TABI	-E					FOUNDATION	I DATA		2	
	TYPE	DIMENSION POST SIZE	BOLT SIZE & TORQUE	А	В	С	D	Е	т1	T ₄	w ₁	R	S	STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	К	
4	Α	W10"X12.0 #/FT.	¾" ¢ @ 75#-FT.	51/4"	1'-03/8	½''	31/2"	7∕8′	1"	3/6"	5/16"	13/32 "	21/8"	3'-6	3"	2'-0 φ	5'-0	76.0#	4
<u>(4)</u>	В	W12"X16.0 #/FT.	½" ¢ @ 85#-FT.	51/2"	1'-41/4	1"	31/2"	1"	11/4"	1/4"	5/16"	15/32 "	3"	5'-6	3"	2'-0 φ	7'-0	146.5#	4
	С	W12"X19.0 #/FT.	½" Φ @ 85#-FT.	51/2"	1'-41/4	1"	31/2"	1"	11/2"	% "	5/16"	15/32 "	3"	6'-0	3"	2'-0 ø	7'-6	182.1#	
	D	W12"X22.0 #/FT.	⅓" φ @ 85#-FT.	51/2"	1'-41/4	1''	31/2"	1"	11/2"	3%"	5/16"	15/32 "	3"	6'-6	3"	2'-0 ø	8'-0	210.5#	ı
3	E	W12"X26.0 #/FT.	1" ¢ @ 90#-FT.	7"	1'-41/4	11/4"	4"	11/2"	11/2"	3/8"	5/16"	17/32 ''	3''	7'-0	3"	2'-0 φ	8'-6	293.0#	3
																			l
					•				1	6	1				•	•			

STRUCTURAL CARBON STEEL PAY WTS. (1POST) = K+ (POST LENGTH X POST WT.) "K" INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

COUNTY:

DESIGN DATA

WIND PRESSURE = 75 M.P.H. WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0 ICE LOAD = 3 P.S.F. PERCENT OF ALLOWABLE STRESS

1. DEAD 2. DEAD & WIND 3. DEAD, ICE & 1/2 WIND 140 425 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 11/2T / SO.FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.

ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50.

THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.

H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.

BOLTING PROCEDURE - BASE CONNECTION

- 1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
- 2. SHIM AS REQ'D. TO PLUMB POST.
- 3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
- 4. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

-PLATE THICKNESS = T

—STUB POST

SECTION B-B

74

985

-SIGN POST

TIGHTEN THE HIGH STRENGTH BOLTS TO THE TOROUE SHOWN.

<u>DO NOT OVERTIGHTEN.</u>

WISCONSIN DEPT OF TRANSPORTATION APPROVED PLATE NO. A3-1.13 DATE 4/26/11

9 4	1-26-11	REMOVE NON-GALVANIZED
8 10)-30-96	NOT GALVANIZED/GALVANIZED
7 10	-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
6 8	-24-87	BASE CONN. WELD
(5) 10	-13-81	BASE CONN. WELD & FUSE P WASHERS
4) 10	-19-79	POST A & B, A572 GR. 50, & K
2 11	-28-78	"K" (3)4-23-79 TYPE "E"
1) 5	-4-78	T ₁ , T ₂ & W ₁
NO.	DATE	REVISION
		STATE OF WISCONSIN ARTMENT OF TRANSPORTATION VISION OF HIGHWAYS

TYPE A, B, C, D, & E

DRAWN BY JPH 2011 FTG. & SIGN SUPPORT SHEET DETAILS

GROUND MOUNT BREAK-AWAY SIGNS

SHEET NO:

Ε

PROJECT NO:

			Type "A" (2 Posts)																								
$\Diamond \diamondsuit$	2.5 ft.	3 ft.	3.5 ft.	4 ft.	4.5 ft.	5 ft.	5.5 ft.	6 ft.	6.5 ft.	7 ft.	7.5 ft.	8 ft.	8.5 ft.	9 ft.	9.5 ft.	10 ft.	10.5 ft.	11 ft.	11.5 ft.	12 ft.	12.5 ft.	13 ft.	13.5 ft.	14 ft.	14.5 ft.	15 ft.	15.5 ft.	16
22 ft.	55 Sq. Ft	66 Sq. Ft	77 Sq. Ft	88 Sq. Ft	99 Sq. Ft	110 Sq. Ft	121 Sq. Ft	132 Sq. Ft	143 Sq. Ft	154 Sq. Ft	165 Sq. Ft	176 Sq. Ft	187 Sq. Ft	198 Sq. Ft	209 Sq. Ft	220 Sq. Ft	231 Sq. Ft	242 Sq. Ft	253 Sq. Ft	264 Sq. Ft	275 Sq. Ft	286 Sq. Ft	297 Sq. Ft	308 Sq. Ft	319 Sq. Ft	330 Sq. Ft	341 Sq. Ft	352 5
23 ft.	57.5 Sq. Ft	69 Sq. Ft	80.5 Sq. Ft	92 Sq. Ft	103.5 Sq. Ft	115 Sq. Ft	126.5 Sq. Ft	138 Sq. Ft	149.5 Sq. Ft	161 Sq. Ft	172.5 Sq. Ft	184 Sq. Ft	195.5 Sq. Ft	207 Sq. Ft	218.5 Sq. Ft	230 Sq. Ft	241.5 Sq. Ft	253 Sq. Ft	264.5 Sq. Ft	276 Sq. Ft	287.5 Sq. Ft	299 Sq. Ft	310.5 Sq. Ft	322 Sq. Ft	333.5 Sq. Ft	345 Sq. Ft	356.5 Sq. Ft	368
24 ft.	60 Sq. Ft	72 Sq. Ft	84 Sq. Ft	96 Sq. Ft	108 Sq. Ft	120 Sq. Ft	132 Sq. Ft	144 Sq. Ft	156 Sq. Ft	168 Sq. Ft	180 Sq. Ft	192 Sq. Ft	204 Sq. Ft	216 Sq. Ft	228 Sq. Ft	240 Sq. Ft	252 Sq. Ft	264 Sq. Ft	276 Sq. Ft	288 Sq. Ft	300 Sq. Ft	312 Sq. Ft	324 Sq. Ft	336 Sq. Ft	348 Sq. Ft	360 Sq. Ft	372 Sq. Ft	384
25 ft.	62.5 Sq. Ft	75 Sq. Ft	87.5 Sq. Ft	100 Sq. Ft	112.5 Sq. Ft	125 Sq. Ft	137.5 Sq. Ft	150 Sq. Ft	162.5 Sq. Ft	175 Sq. Ft	187.5 Sq. Ft	200 Sq. Ft	212.5 Sq. Ft	225 Sq. Ft	237.5 Sq. Ft	250 Sq. Ft	262.5 Sq. Ft	275 Sq. Ft	287.5 Sq. Ft	300 Sq. Ft	312.5 Sq. Ft	325 Sq. Ft	337.5 Sq. Ft	350 Sq. Ft	362.5 Sq. Ft	375 Sq. Ft	387.5 Sq. Ft	400
26 ft.	65 Sq. Ft	78 Sq. Ft	91 Sq. Ft	104 Sq. Ft	117 Sq. Ft	130 Sq. Ft	143 Sq. Ft	156 Sq. Ft	169 Sq. Ft	182 Sq. Ft	195 Sq. Ft	208 Sq. Ft	221 Sq. Ft	234 Sq. Ft	247 Sq. Ft	260 Sq. Ft	273 Sq. Ft	286 Sq. Ft	299 Sq. Ft	312 Sq. Ft	325 Sq. Ft	338 Sq. Ft	351 Sq. Ft	364 Sq. Ft	377 Sq. Ft	390 Sq. Ft	403 Sq. Ft	416
27 ft.	67.5 Sq. Ft	81 Sq. Ft	94.5 Sq. Ft	108 Sq. Ft	121.5 Sq. Ft	135 Sq. Ft	148.5 Sq. Ft	162 Sq. Ft	175.5 Sq. Ft	189 Sq. Ft	202.5 Sq. Ft	216 Sq. Ft	229.5 Sq. Ft	243 Sq. Ft	256.5 Sq. Ft	270 Sq. Ft	283.5 Sq. Ft	297 Sq. Ft	310.5 Sq. Ft	324 Sq. Ft	337.5 Sq. Ft	351 Sq. Ft	364.5 Sq. Ft	378 Sq. Ft	391.5 Sq. Ft	405 Sq. Ft	418.5 Sq. Ft	432
28 ft.	70 Sq. Ft	84 Sq. Ft	98 Sq. Ft	112 Sq. Ft	126 Sq. Ft	140 Sq. Ft	154 Sq. Ft	168 Sq. Ft	182 Sq. Ft	196 Sq. Ft	210 Sq. Ft	224 Sq. Ft	238 Sq. Ft	252 Sq. Ft	266 Sq. Ft	280 Sq. Ft	294 Sq. Ft	308 Sq. Ft	322 Sq. Ft	336 Sq. Ft	350 Sq. Ft	364 Sq. Ft	378 Sq. Ft	392 Sq. Ft	406 Sq. Ft	420 Sq. Ft	434 Sq. Ft	448
29 ft.	72.5 Sq. Ft	87 Sq. Ft	101.5 Sq. Ft	116 Sq. Ft	130.5 Sq. Ft	145 Sq. Ft	159.5 Sq. Ft	174 Sq. Ft	188.5 Sq. Ft	203 Sq. Ft	217.5 Sq. Ft	232 Sq. Ft	246.5 Sq. Ft	261 Sq. Ft	275.5 Sq. Ft	290 Sq. Ft	304.5 Sq. Ft	319 Sq. Ft	333.5 Sq. Ft	348 Sq. Ft	362.5 Sq. Ft	377 Sq. Ft	391.5 Sq. Ft	406 Sq. Ft	420.5 Sq. Ft	435 Sq. Ft	449.5 Sq. Ft	464
30 ft.	75 Sq. Ft	90 Sq. Ft	105 Sq. Ft	120 Sq. Ft	135 Sq. Ft	150 Sq. Ft	165 Sq. Ft	180 Sq. Ft	195 Sq. Ft	210 Sq. Ft	225 Sq. Ft	240 Sq. Ft	255 Sq. Ft	270 Sq. Ft	285 Sq. Ft	300 Sq. Ft	315 Sq. Ft	330 Sq. Ft	345 Sq. Ft	360 Sq. Ft	375 Sq. Ft	390 Sq. Ft	405 Sq. Ft	420 Sq. Ft	435 Sq. Ft	450 Sq. Ft	465 Sq. Ft	480
31 ft.	77.5 Sq. Ft	93 Sq. Ft	108.5 Sq. Ft	124 Sq. Ft	139.5 Sq. Ft	155 Sq. Ft	170.5 Sq. Ft	186 Sq. Ft	201.5 Sq. Ft	217 Sq. Ft	232.5 Sq. Ft	248 Sq. Ft	263.5 Sq. Ft	279 Sq. Ft	294.5 Sq. Ft	310 Sq. Ft	325.5 Sq. Ft	341 Sq. Ft	356.5 Sq. Ft	372 Sq. Ft	387.5 Sq. Ft	403 Sq. Ft	418.5 Sq. Ft	434 Sq. Ft	449.5 Sq. Ft	465 Sq. Ft	480.5 Sq. Ft	496
32 ft.	80 Sq. Ft	96 Sq. Ft	112 Sq. Ft	128 Sq. Ft	144 Sq. Ft	160 Sq. Ft	176 Sq. Ft	192 Sq. Ft	208 Sq. Ft	224 Sq. Ft	240 Sq. Ft	256 Sq. Ft	272 Sq. Ft	288 Sq. Ft	304 Sq. Ft	320 Sq. Ft	336 Sq. Ft	352 Sq. Ft	368 Sq. Ft	384 Sq. Ft	400 Sq. Ft	416 Sq. Ft	432 Sq. Ft	448 Sq. Ft	464 Sq. Ft	480 Sq. Ft	496 Sq. Ft	512
33 ft.	82.5 Sq. Ft	99 Sq. Ft	115.5 Sq. Ft	132 Sq. Ft	148.5 Sq. Ft	165 Sq. Ft	181.5 Sq. Ft	198 Sq. Ft	214.5 Sq. Ft	231 Sq. Ft	247.5 Sq. Ft	264 Sq. Ft	280.5 Sq. Ft	297 Sq. Ft	313.5 Sq. Ft	330 Sq. Ft	346.5 Sq. Ft	363 Sq. Ft	379.5 Sq. Ft	396 Sq. Ft	412.5 Sq. Ft	429 Sq. Ft	445.5 Sq. Ft	462 Sq. Ft	478.5 Sq. Ft	495 Sq. Ft	511.5 Sq. Ft	528
34 ft.	85 Sq. Ft	102 Sq. Ft	119 Sq. Ft	136 Sq. Ft	153 Sq. Ft	170 Sq. Ft	187 Sq. Ft	204 Sq. Ft	221 Sq. Ft	238 Sq. Ft	255 Sq. Ft	272 Sq. Ft	289 Sq. Ft	306 Sq. Ft	323 Sq. Ft	340 Sq. Ft	357 Sq. Ft	374 Sq. Ft	391 Sq. Ft	408 Sq. Ft	425 Sq. Ft	442 Sq. Ft	459 Sq. Ft	476 Sq. Ft	493 Sq. Ft	510 Sq. Ft	527 Sq. Ft	544
35 ft.	87.5 Sq. Ft	105 Sq. Ft	122.5 Sq. Ft	140 Sq. Ft	157.5 Sq. Ft	175 Sq. Ft	192.5 Sq. Ft	210 Sq. Ft	227.5 Sq. Ft	245 Sq. Ft	262.5 Sq. Ft	280 Sq. Ft	297.5 Sq. Ft	315 Sq. Ft	332.5 Sq. Ft	350 Sq. Ft	367.5 Sq. Ft	385 Sq. Ft	402.5 Sq. Ft	420 Sq. Ft	437.5 Sq. Ft	455 Sq. Ft	472.5 Sq. Ft	490 Sq. Ft	507.5 Sq. Ft	525 Sq. Ft	542.5 Sq. Ft	560
36 ft.	90 Sq. Ft	108 Sq. Ft	126 Sq. Ft	144 Sq. Ft	162 Sq. Ft	180 Sq. Ft	198 Sq. Ft	216 Sq. Ft	234 Sq. Ft	252 Sq. Ft	270 Sq. Ft	288 Sq. Ft	306 Sq. Ft	324 Sq. Ft	342 Sq. Ft	360 Sq. Ft	378 Sq. Ft	396 Sq. Ft	414 Sq. Ft	432 Sq. Ft	450 Sq. Ft	468 Sq. Ft	486 Sq. Ft	504 Sq. Ft	522 Sq. Ft	540 Sq. Ft	558 Sq. Ft	576
	•	<u> </u>	•	•	Type "B" (2 Posts 1.6 CY Conc. 98 LBs Bar Steel		•	<u>'</u>	,	•	<u>'</u>		Type "C" (2 Posts 1.8 CY Conc. 100 LBs Bar Stee		1.8 CY	(2 Posts) Conc. Bar Steel		Type "C" (3 Pos 2.7 CY Conc 150 LBs Bar Ste			Type "D" (3 Posts) 2.7 CY Conc. 168 LBs Bar Steel			•		•	•	

STEEL POST SIZE

"A" - W10" x 12"

"B" - W12" x 16"

"C" - W12" x 19" "D" - W12 x 22"

> DETERMINATION OF HIGH STRENGTH STRUCTURAL STEEL SIGN SUPPORT TYPE

> > WISCONSIN DEPT OF TRANSPORTATION

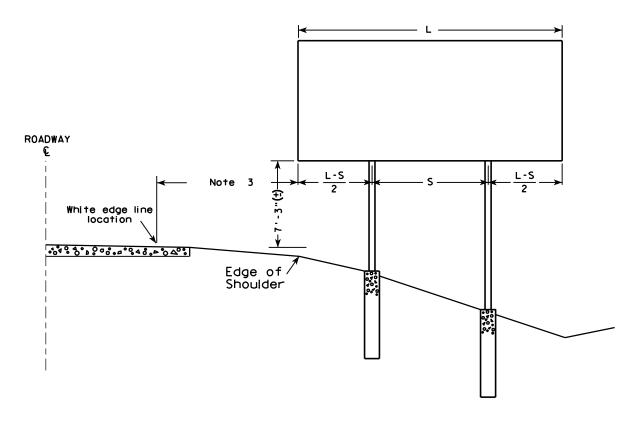
APPROVED Matthew & Rauch For State Traffic Engineer

DATE 3/5/10

SHEET NO:

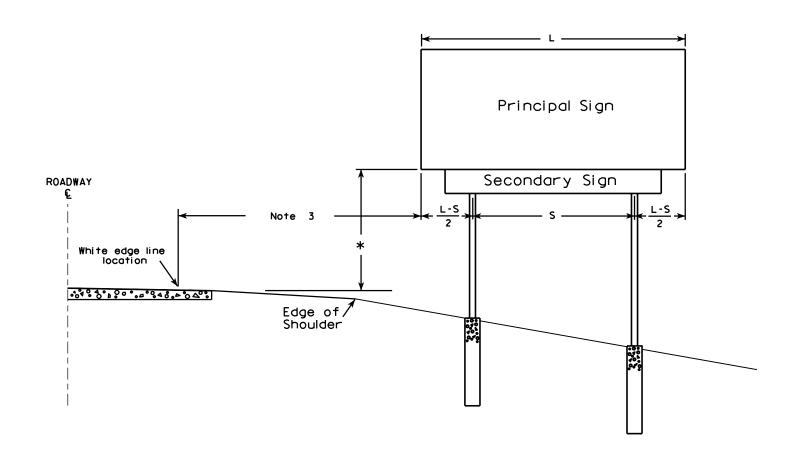
PROJECT NO:

PLOT DATE: 05-MAR-2010 10:07



GENERAL NOTES

- 1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
- 2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
- 3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
- 4. The (\pm) tolerance shown on this sheet is 3 in.
- 5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
- 6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
- 7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.



* Clearance is 8'-3"(\pm) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(\pm).

TYPICAL INSTALLATION
OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

SHEET NO:

PLOT BY : ditjph

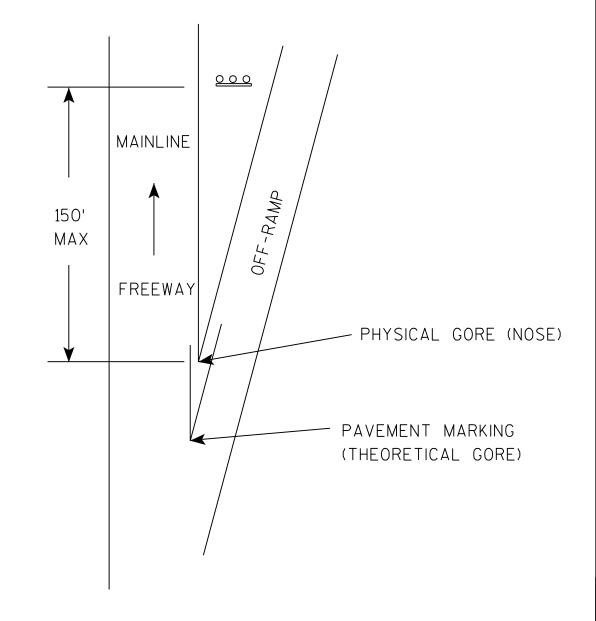
PLOT DATE: 02-APR-2008 15:49

PROJECT NO:





- 1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
- 2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
- 3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
- 4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
- 5. When L is equal to or exceeds 9 feet, use 3 posts as per A4-4.
- 6. The $(\overline{+})$ tolerance for the mounting height is 3 inches.



TYPICAL INSTALLATION OF TYPE II SIGNS ON WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/4/00 for State Traffic Engineer PLATE NO. A4-2.2

SHEET NO:

PROJECT NO:

PLOT DATE: 28-SEP-2005 07:16

PLOT BY : DOTDZK

urban area

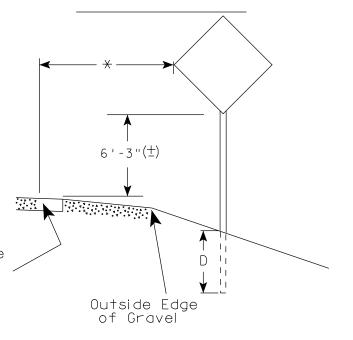
2' Min - 4' Max (See Note 6)

** Curb Flowline

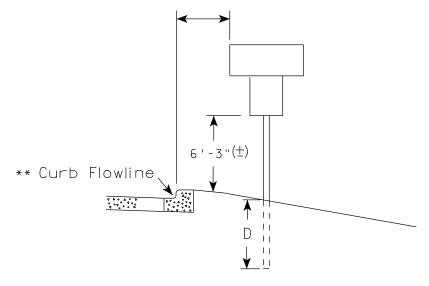
D

White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline Location

Outside Edge of Gravel

- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

- 1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is 7'-3'' (\pm) or 6'-3'' (\pm) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5' 3''(\underline{+})$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (+) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawl For State Traffic Engineer

DATE 5/24/2013 PLATE NO. A4-3.17

PROJECT NO:

HWY:

COUNTY:

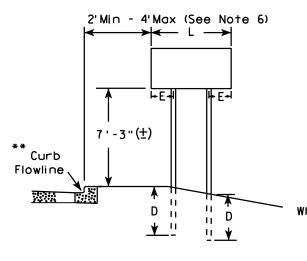
PLOT NAME :

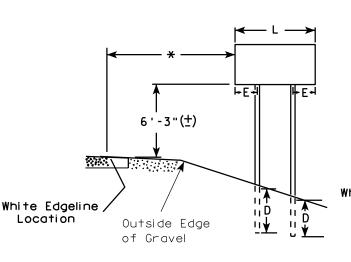
SHEET NO:

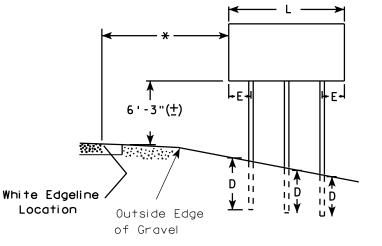
measured from the flow line.

URBAN AREA

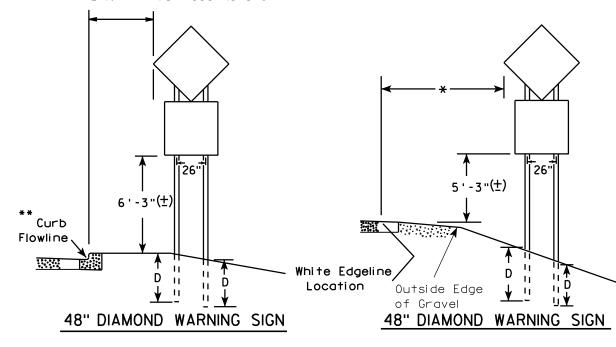
RURAL AREA (See Note 3)







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



SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

COUNTY:

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

GENERAL NOTES

- 1. For multiple post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways. mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A4-5) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B). Clearance Markers (W5-52). Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (\pm).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

POST EMBEDMENT DEPTH

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

PLOT NAME :

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

PLATE NO. 44-4.11 DATE 9/21/2011

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A44.DGN

Greater than 48"

Less than 60"

60" to 120"

* * *

PROJECT NO:

SIGN SHAPE OTHER THAN DIAMOND

Ε

12"

L/5

HWY:

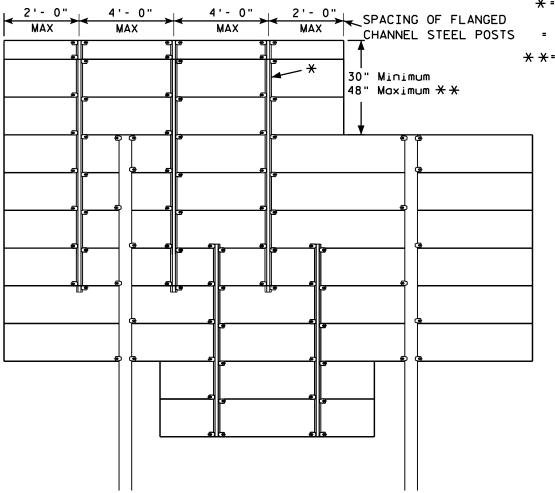
(TWO POSTS REQUIRED)

PLOT DATE: 21-SEP-2011 13:36

PLOT BY: mscsia

PLOT SCALE: 109.249131:1.000000

GROUND MOUNTED SIGN



* =2.00 lb/ft FLANGED CHANNEL. MIN. YIELD STRENGTH CHANNEL STEEL POSTS = 60.000 PSI (GRADE 60) GALVANIZED

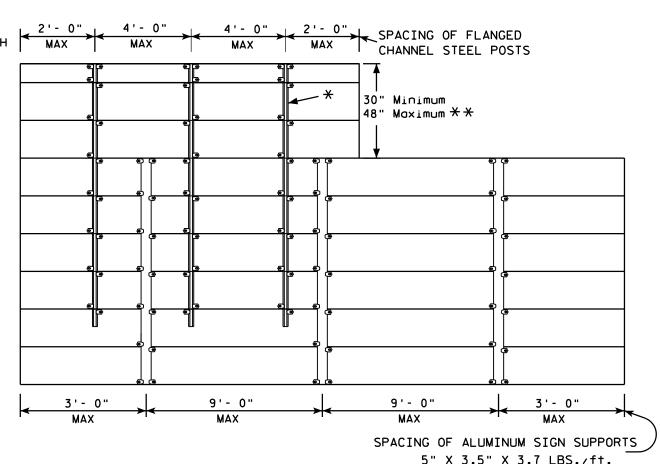
> * *= FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES. ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

> > FLANGE CHANNEL DETAIL

NOT TO SCALE

/₈ —₄ | ← 1 /₄ → |

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

- 1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
- 2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

- 3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
- 4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel. stitch bolts shall be used in addition to the channels.
- 5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 6/7/10

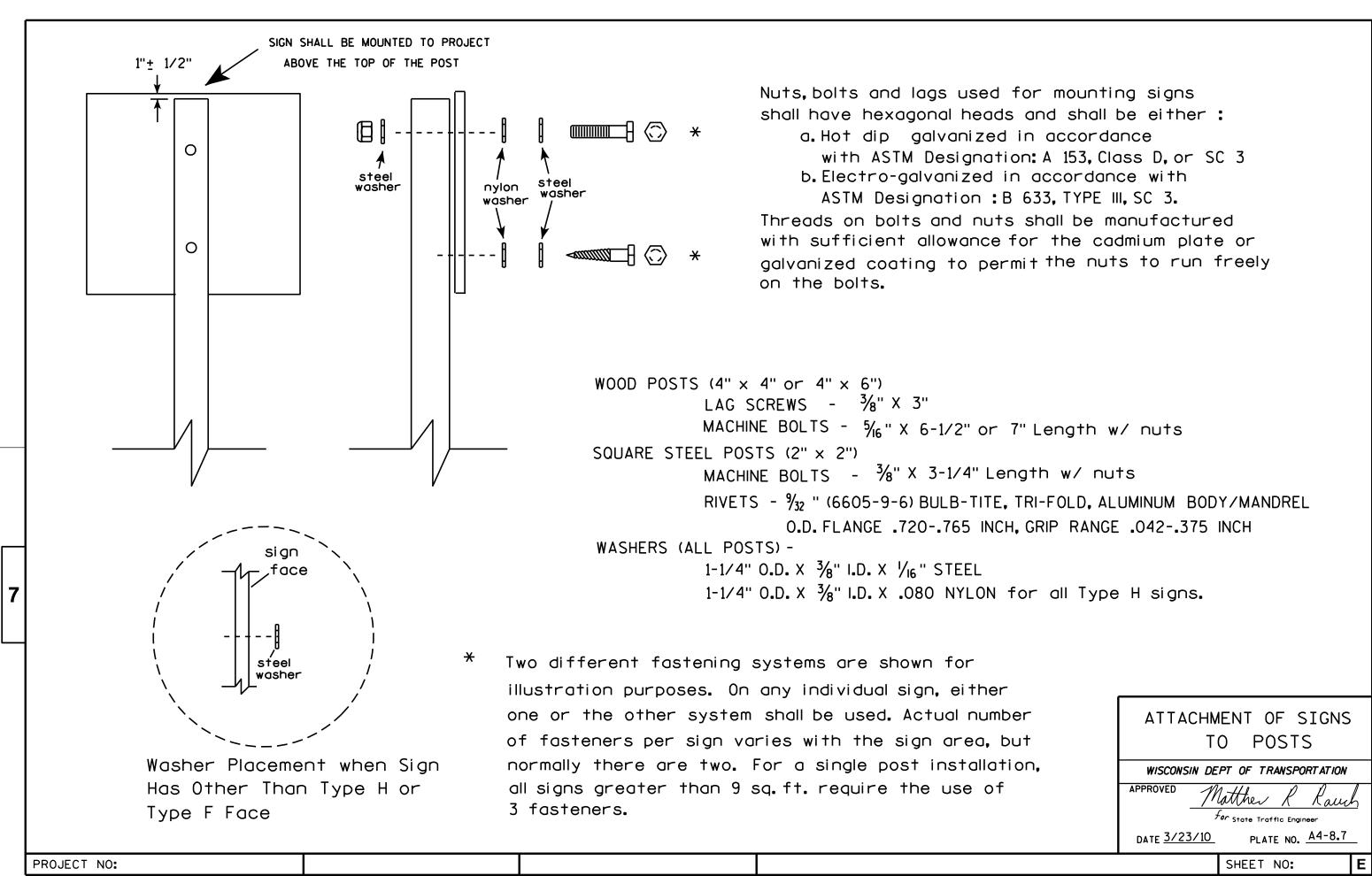
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A46.DGN

PROJECT NO:

PLOT DATE: 07-JUN-2010 13:37

PLOT BY: ditjph



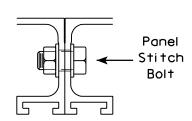
STITCH BOLT, WASHER & NUT

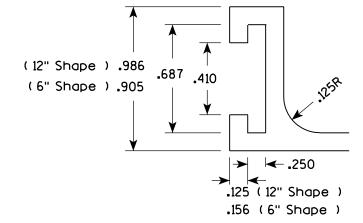
The hardware includes:

3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy

3/8 " - Stainless steel stop nut

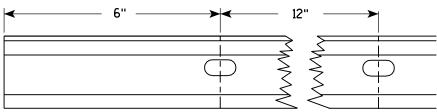
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy







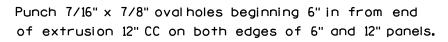
←.125

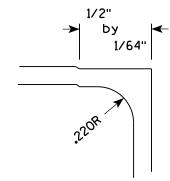


.078

← 2" →

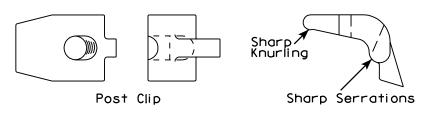
6" Extrusion Minimum Weight 1.1 lb./ft.

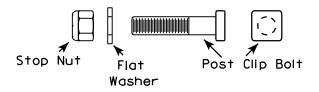




POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6 Post Clip Bolt shall be Stainless Steel. Flat washer shall be 3/8" X .091, Stainless Steel. Stop nut shall be stainless steel.





NOTES

- 1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
- 2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
- 3. Post Clips shall be used to attach the sign panel to the sign support.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED hester J Spang For State Traffic Engineer PLATE NO. 45-2.9

DATE 11/18/99

SHEET NO:

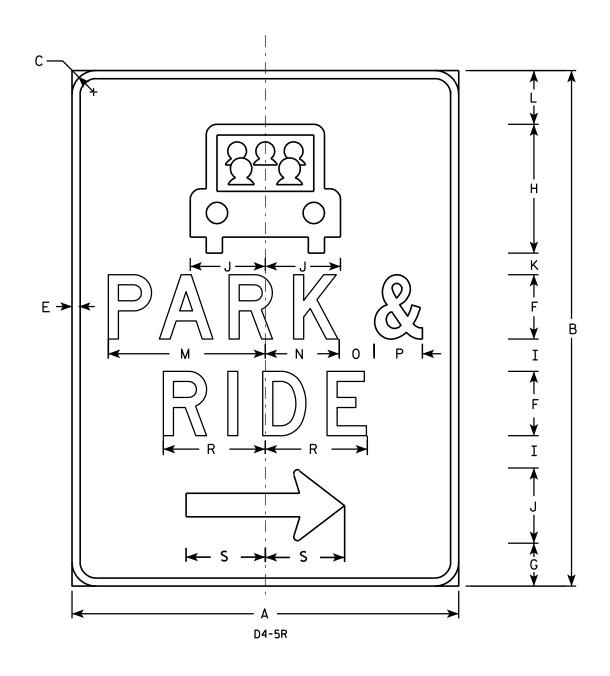
PROJECT NO:

PLOT DATE: 28-SEP-2005 07:20 PLOT BY : DOTDZK

12" Extrusion

Minimum Weight

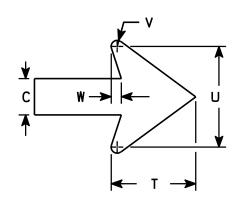
2.45 lb./ft.



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

Background - Green Message - White - Type H Reflective

- 3. Message Series D
- 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. The D4-5L is the same as a D4-5R except the arrow is reversed.



<u>Arrow Detail</u>

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	30	36	1 3/8		5/8	5	1 3/8	9	2	5	1 %	5	11 3/4	5 1/2	2 3/4	3 3/4		8	6 1/8	4	4 3/8	3/8	1/2				7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 1/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8				12.0
4																											
5																											

STANDARD SIGN D4-5 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Kauch
For State Traffic Engineer

DATE 11/15/10

PLATE NO. <u>D4-5.2</u>

SHEET NO:

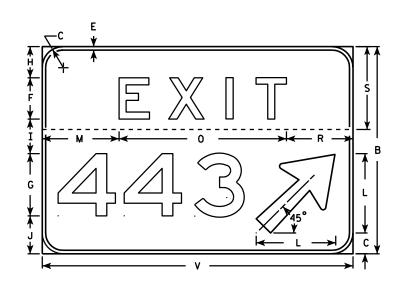
FILE NAME : C:\Users\PROJECTS\tr_stdplate\D45.DGN

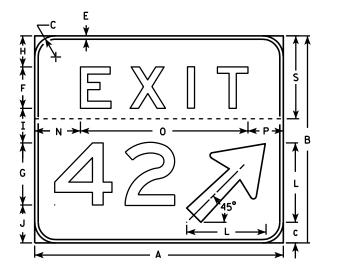
PROJECT NO:

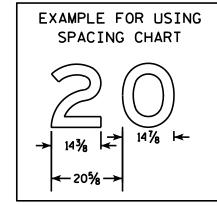
PLOT DATE: 15-NOV-2010 14:08

PLOT BY : dotsja

NOTE: T diminision shall be measured from the back of the number to the front of the arrow







NOTES

- Sign is Type II Type H reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Green
Message - White (Type H reflective)

- 3. Message Series E
- 4. Corners may be square or rounded but the border shall be rounded as shown.
- 5. Base material for this sign shall be plywood and shall be split into two seperate pieces as shown on each detail by the dashed line (-----).
- 6. Arrow is Type "A" from sign plate A1-1.
- 7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
- 8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	Α	В	С
0	14 1/8	21 5/8	21 %	21 1/4	20 ¾	21 1/4	21 1/4	21 %	19 %	22 1/8	21 5/8			
1	5 %	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 %	21 1/8	20 %	19 ¾	20 1/4	20 %	20 %	18 1/8	21 1/8	20 %			
3	14 3/8	20 ¾	21 1/8	20 ¾	20 1/4	19 ¾	20 ¾	20 ¾	19 ¾	21 1/8	20 ¾			
4	16 5/8	22 %	22	22 1/2	21 %	21 %	22 1/8	22 1/8	20 %	23 ¾	22 1/8			
5	14 1/4	20 %	20 %	20 1/8	18 3/4	18 ¾	20 %	20 %	18 3/8	20 %	20 %			
6	14 1/2	21 1/4	20 ¾	20 ¾	19 1/8	19 ½	20 3/8	20 ¾	19	20 ¾	20 ¾			
7	14 3/8	19 ¾	19 ¾	20 1/4	19 ¾	17	19 ¾	20 %	18 1/8	20 %	19 ¾			
8	14 1/4	21 1/2	21 1/2	20 %	19 1/4	19 ¾	20 %	21 1/2	19 %	21 1/2	20 %			
9	14 1/2	21 1/4	21 1/4	20 %	20	20 %	20 %	21 1/4	19 1/2	21 3/4	21 1/4			
Α	18	19 ¾	19 ¾	20 1/4	19 ¾	17	19 ¾	20 %	18 1/8	20 %	19 ¾	21 5/8	23 1/8	23
В	14 1/4	21 1/2	21 1/2	20 %	19 1/4	19 ¾	20 %	21 1/2	19 %	21 1/2	20 %	19 1/2	22 3/8	21 1/2
С	14 1/4	21 1/4	21 1/4	20 1/8	20	20 %	20 %	21 1/4	19 1/2	21 ¾	21 1/4	18 3/8	21	19 ¾

SIZE	Α	В	С	D	Ε	F	G	Н	ı	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 %	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bld Areo Sq. Ft.

30 37.5

STANDARD SIGN E5-1A

WISCONSIN DEPT OF TRANSPORTATION

Matther Rauch

For State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

SHEET NO:

HWY:

COUNTY:

PLOT DATE: 11-MAY-2010 15:32

PLOT NAME :

PLOT SCALE: 27.808870:1.000000

PROJECT NO:

E → SPONSOR A F Y G Z F Z A F X A

HWY:

Background Colors of Symbol*

₽ 4

* VARIES

White Black Green Orange

 * $\!\!\!/_4$ " Black Border between each color of rainbow and border of rainbow

I 2 36 | 1 1/2 | 1/2 5/8 3 1/2 2 7/8 | 2 1/8 | 11 1/4 | 11 1/8 | 9 3/8 | 1 1/4 3/4 12 % 7 1/2 30 7.5 3 4 5

COUNTY:

NOTES

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

Background - White Message - (See Note 5)

- 3. Message Series (See Note 6)
- 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. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

> STANDARD SIGN I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556.DGN

PROJECT NO:

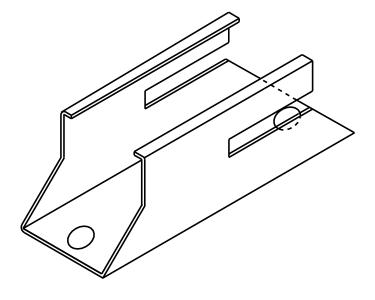
PLOT DATE: 27-APR-2011 10:05

PLOT BY: mscj9h

PLOT NAME :

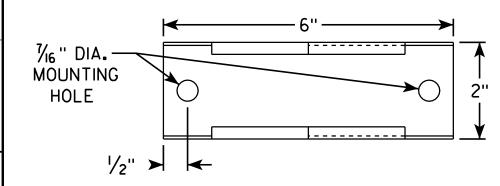
PLOT SCALE: 7.945391:1.000000

ISOMETRIC VIEW

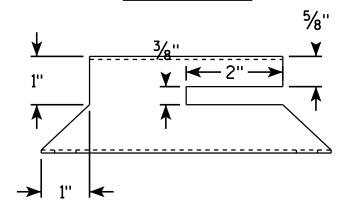


TOP VIEW

HWY:



SIDE VIEW

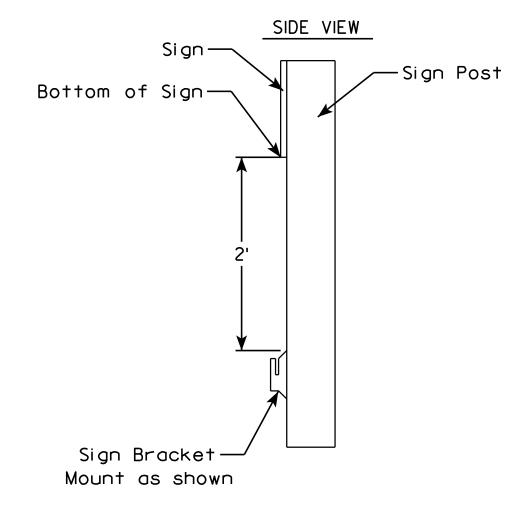


END VIEW **←** 2" →

COUNTY:

NOTES

- 1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
- 2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
- 3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
- 4. Shall have rounded edges with at least $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION APPROVED

SHEET NO:

for State Traffic Engineer DATE 2/5/10 PLATE NO. 155-56B.1

PLOT NAME :

PLOT SCALE: 1.986348:1.000000

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556B.DGN

PROJECT NO:

PLOT DATE: 01-MAR-2010 15:34

PLOT BY : ditjph

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Top Red - Bottom Blue (See Note 6) Message - White - See Note 6

- 3. Message Series See note 5
- 4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
- 5. M1-1 Numerals D Interstate - C

M1-1A - All copy - C

6. Permanent Signs

Message - Type H Reflective

Detour or other temporary signs

Background - Reflective Message - Reflective

7

Metric equivalent for these signs are:

M1-1

HWY:

SIZE	M1 - 1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

	300	1111111	X 900	J 111111	1 2 1	300 1	11111 X I	123 11111	<u>'</u>																	M1 - 1	W1-1A	M1 - 1	W1-1A
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 ½	15	24	17	7 1/8								30			3.13	3.91	. 36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4	·						·	45			7.03	8.79	. 81	1.05
5	36		·		3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 ½	11 3/4								45			7.03	8.79	. 81	1.05

COUNTY:

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew A

 f_{or} State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M11.DGN

PROJECT NO:

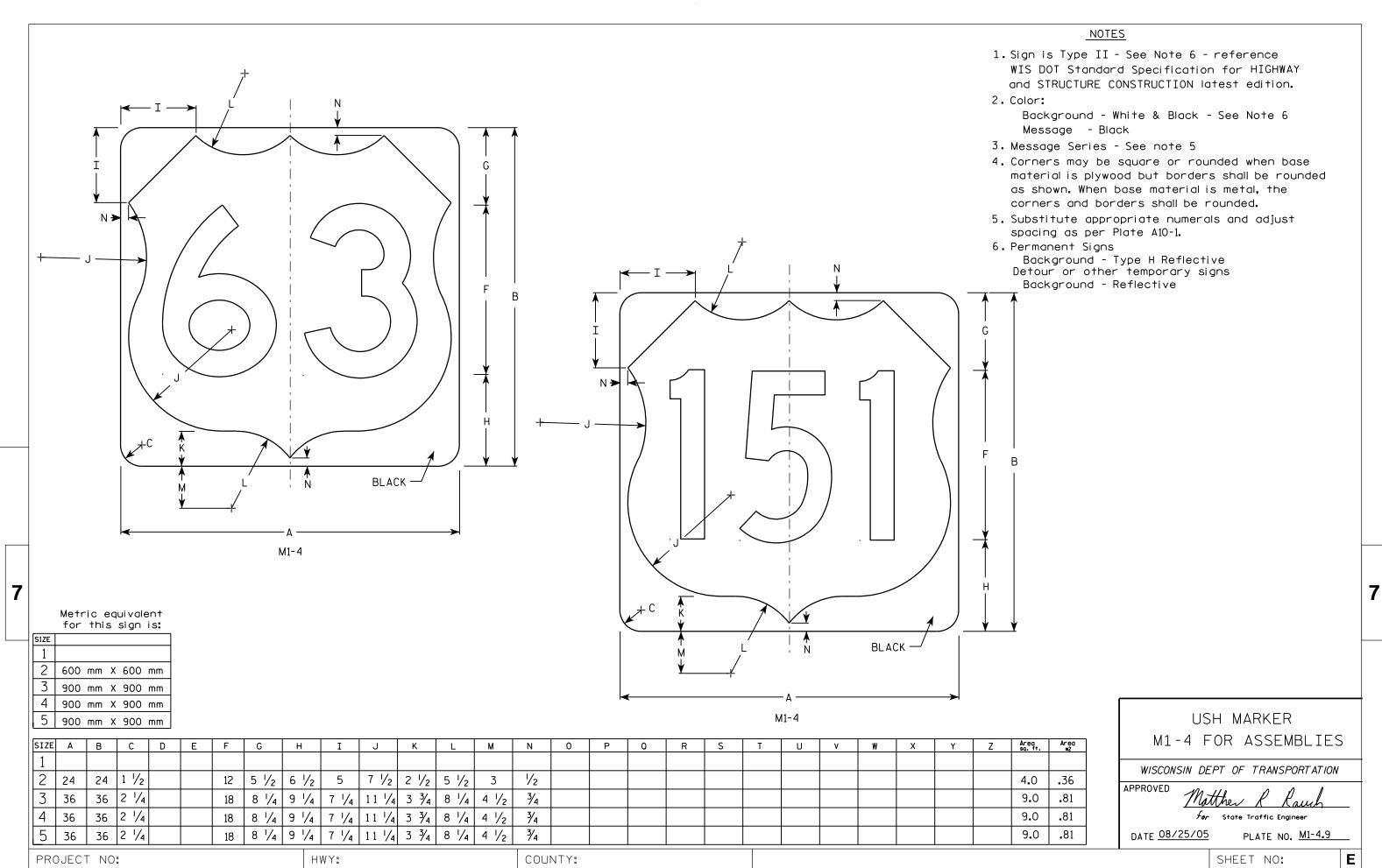
PLOT DATE: 13-0CT-2005 14:49

M1-1A

PLOT BY : DITJPH PLOT NAME :

PLOT SCALE: 7.947778:1.000000

00 WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\Projects\tr_stdplate\M14.DGN

PLOT DATE: 13-OCT-2005 14:52

PLOT NAME :

PLOT BY : DITJPH

PLOT SCALE: 5.960833:1.000000

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

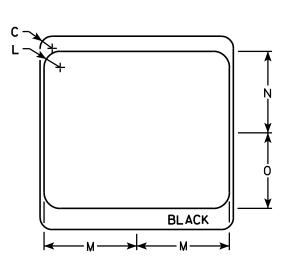
Background - White & Black - See Note 7 Message - Black

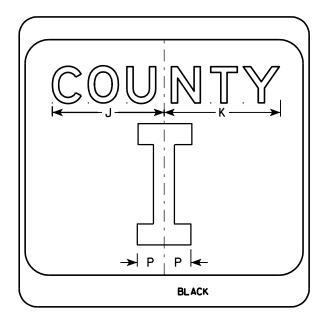
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

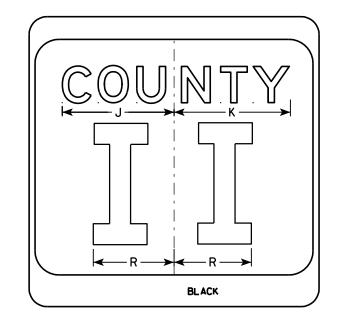
 Message Series D for 2 letters unless
 message is too big then Series C.

 Message Series C for 3 letters unless
 message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
DDO	IECT	NO.					111	/V.					COUN	TV.													
FRU	JECT	NO.					HV	V I .						I I .					I								

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED

Matthew Rauch

Forstate Traffic Engineer

NATE 9/27/11 PLATE NO. M1-5A.8

DATE 9/27/11

SHEET NO:

BLACK

M1-5A

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs
 Background Type H Reflective
 Detour or temporary Signs
 Background Reflective

BLACK	↑ G → ↑ F → → ↑ → → → → → → → → → →
Metric equivalent for this sign is:	

HWY:

900 mm X 900 mm

5 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	. 81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
ט ן	26		2 /4			10	0 74	J /4	12 78	3 78	12 78	11 /8	1 /2	² /8	10 /8	33												9.0

COUNTY:

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

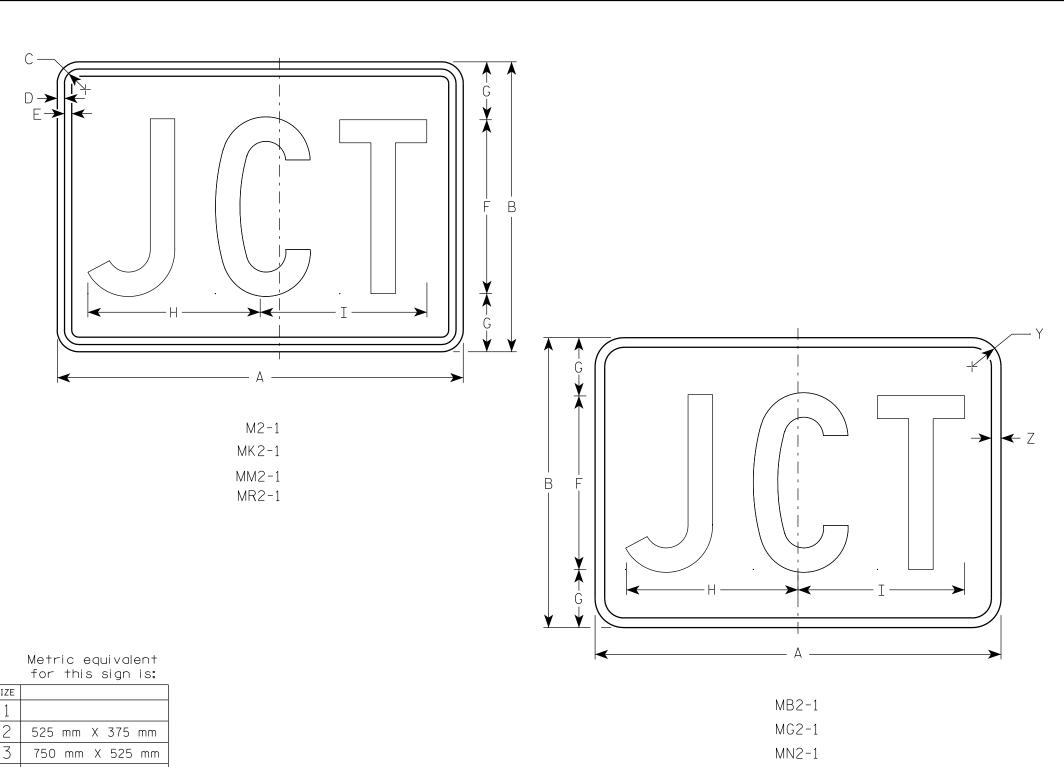
APPROVED

The state Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

PLOT NAME :



- 1. Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background White Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
 - MB2-1 Background Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - MG2-1 Background Green Message - White - Type H Reflective
 - MK2-1 Background Green Message - White - Type H Reflective
 - MM2-1 Background White Type H Reflective Message - Green
 - MN2-1 Background Brown Message - White - Type H Reflective
 - MR2-1 Background Brown Message - Yellow - Type H Reflective

750 mm X 525 mm 750 mm X 525 mm

PROJECT NO:

SIZE	Ξ.	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.	Area m2
1																													
2	2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 %																1 1/2	1/2	2.20	0.20
3	3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20
4	-	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20
5	-	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20

COUNTY:

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

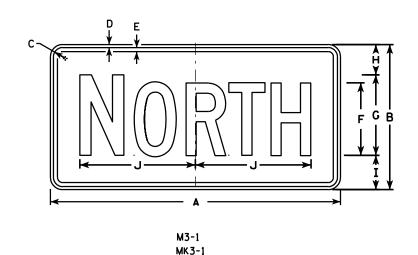
DATE 3/16/10

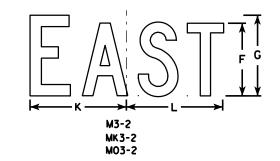
PLATE NO. M2-1.10 SHEET NO:

WISDOT/CADDS SHEET 42

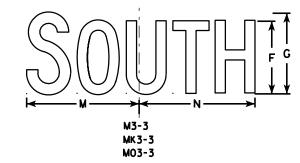
PLOT NAME : PLOT DATE: 16-MAR-2010 09:49 PLOT SCALE: 4.965868:1.000000 PLOT BY: dotsja

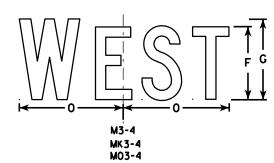
HWY:



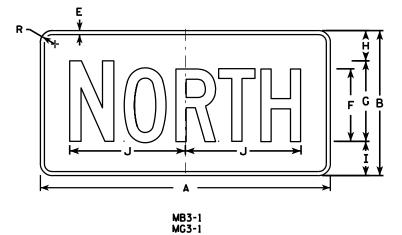


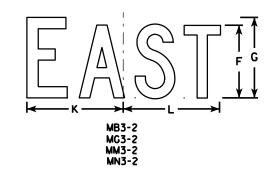
MO3-1





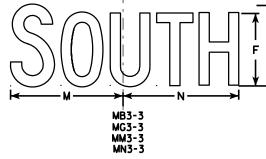
HWY:

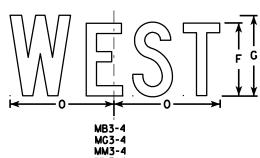




MM3-1

MN3-1





<u>NOTES</u>

- 1. All Signs Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M3-1 thru M3-4 Background White Type H Reflective (Detour or temporary signs Reflective) Message Black
 - MB3-1 thru MB3-4 Background Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
 - MG3-1 thru MG3-4 Background Green

 Message White Type H Reflective
 - MK3-1 thru MK3-4 Background Green

 Message White Type H Reflective
 - MM3-1 thru MM3-4 Background White Type H Reflective Message Green
 - MN3-1 thru MN3-4 Background Brown
 Message White Type H Reflective
 - M03-1 thru M03-4 Background Orange Reflective Message Black
- 6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	כ	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3⁄8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 ¾	8 ¾			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

SHEET NO: E

PROJECT NO:

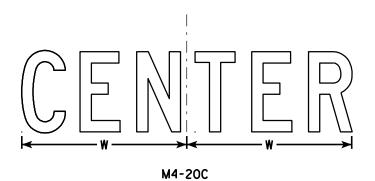
PLOT NAME :

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

Background - Blue Message - White

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





<i>l</i> etr	ic ec	ui val	ent
for	this	sign	is:

M4-20L

				_	
SIZE					
1					
2	600	mm	X	600	mm
3	900	mm	X	900	mm
4					
5					

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8			6 %	6 %			7	7 %	5 3/8	5 3/4	10 1/4				4.0	0.36
3	36		1	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4			9 %	10 1/4			10 3/8	11 3/8	8	8 %	14 3/8				9.0	0.81
4																												
5																												

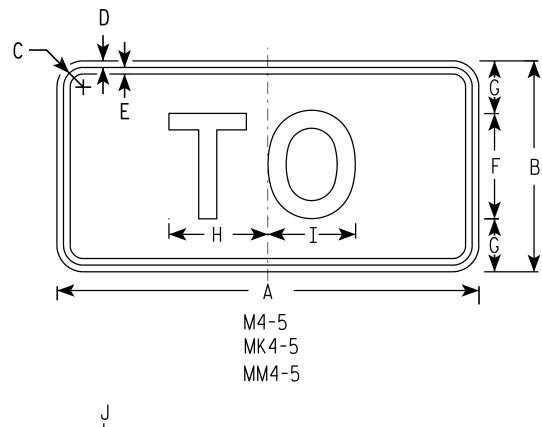
STANDARD SIGN M4 - 20

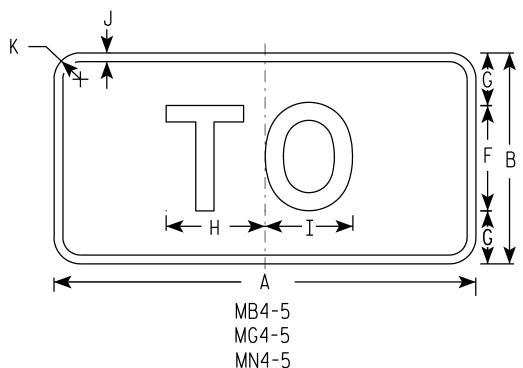
WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 2/1/09 PLATE NO. M4-20.2

HWY: COUNTY: SHEET NO: PLOT NAME:





HWY:

NOTES

- 1. Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series E
- 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. M4-5 Background White Type H Reflective
 (Detour or temporary Signs Reflective)

 Message Black
 - MB4-5 Background Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - MG4-5 Background Green
 Message White Type H Reflective
 - MK4-5 Background Green
 Message White Type H Reflective
 - MM4-5 Background White Type H Reflective Message Green
 - MN4-5 Background Brown
 Message White Type H Reflective

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	Z	0	Ρ	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3%	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 %	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

COUNTY:

STANDARD SIGN M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

DATE 11/10/10

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M45.DGN

PROJECT NO:

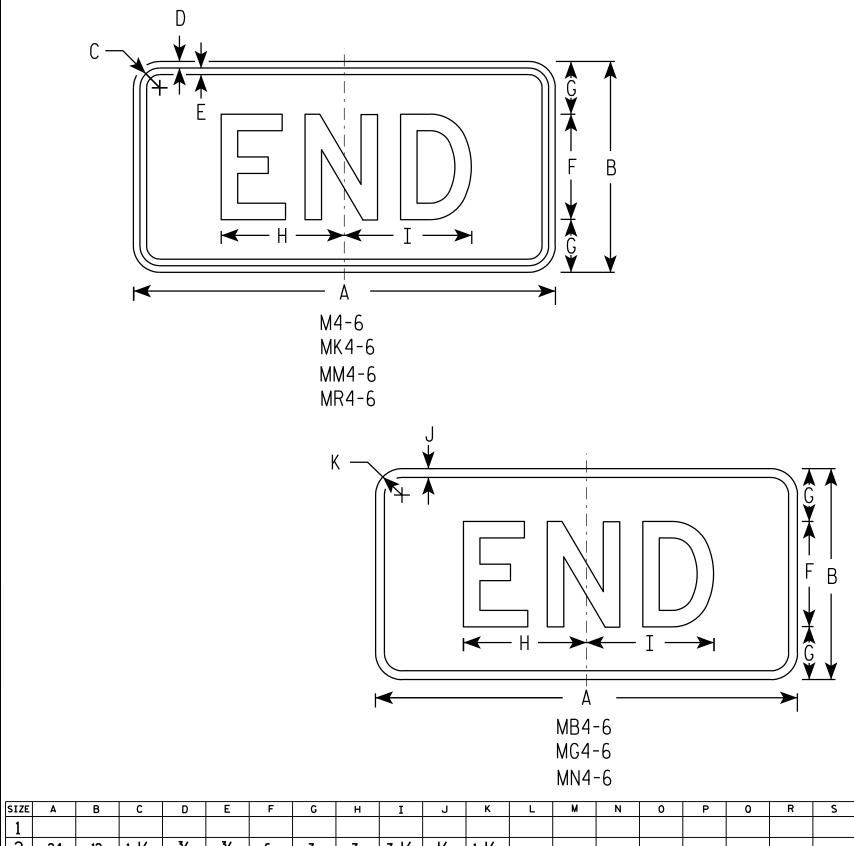
PLOT DATE: 10-NOV-2010 12:48

PLOT BY : ditjph PLOT NAME :

PLOT SCALE: 5.462457:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. M4-5.6



HWY:

<u>NOTES</u>

- 1. Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series D
- 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. M4-6 Background White Type H Reflective (Detour or temporary Signs Reflective)

Message - Black

- MB4-6 Background Blue
 Message White Type H Reflective
 (Detour or temporary Signs Reflective)
- MG4-6 Background Green
 Message White Type H Reflective
- MK4-6 Background Green

 Message White Type H Reflective
- MM4-6 Background White Type H Reflective Message Green
- MN4-6 Background Brown
 Message White Type H Reflective
- MR4-6 Background Brown
 Message Yellow Type H Reflective

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
													_	•	•	•							•	•		•	

COUNTY:

STANDARD SIGN M4-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/10/10</u>

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M46.DGN

PROJECT NO:

PLOT DATE: 10-NOV-2010 12:57

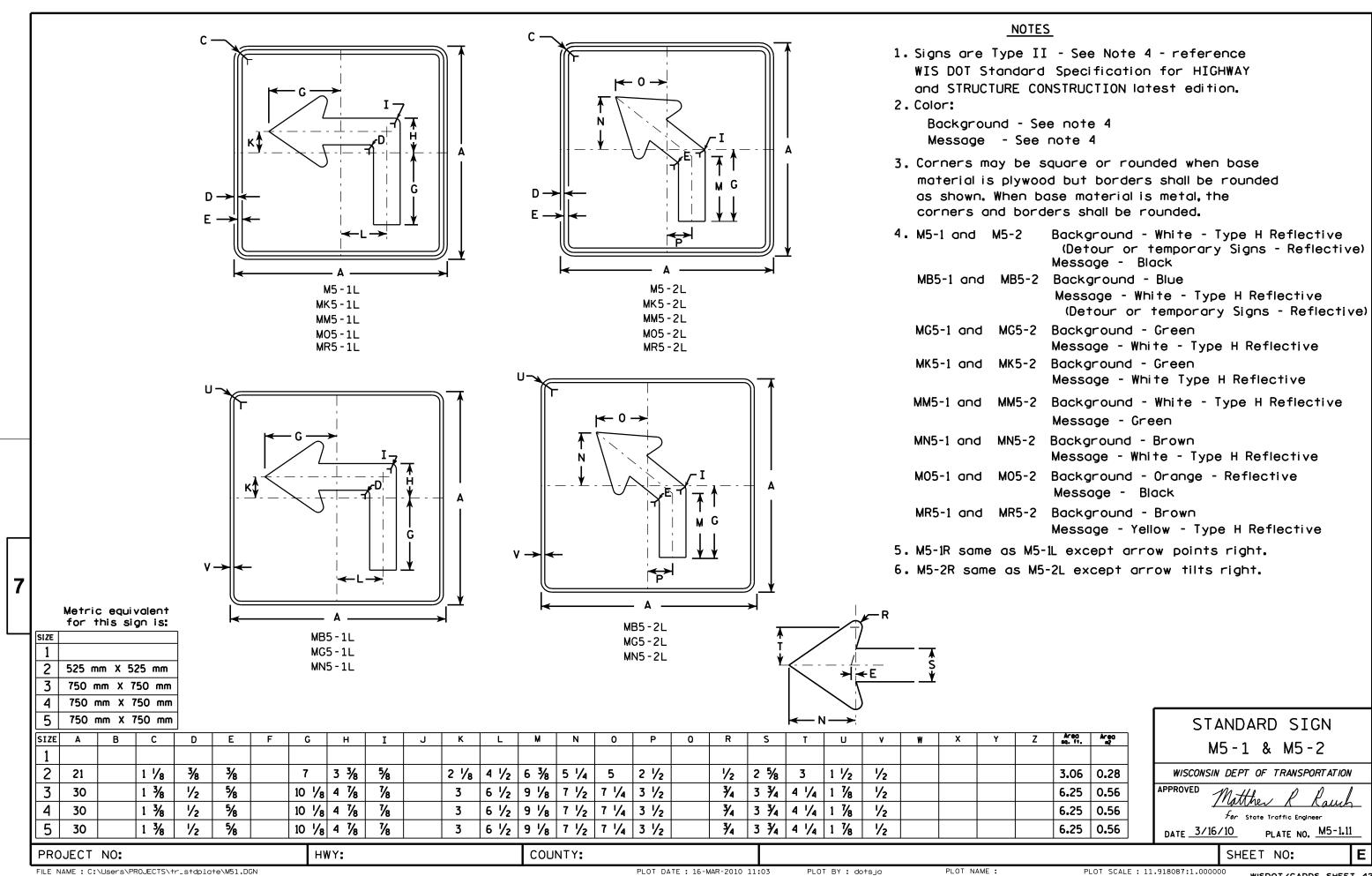
PLOT NAME :

PLOT BY: ditjph

PLOT SCALE: 5.462457:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. M4-6.7



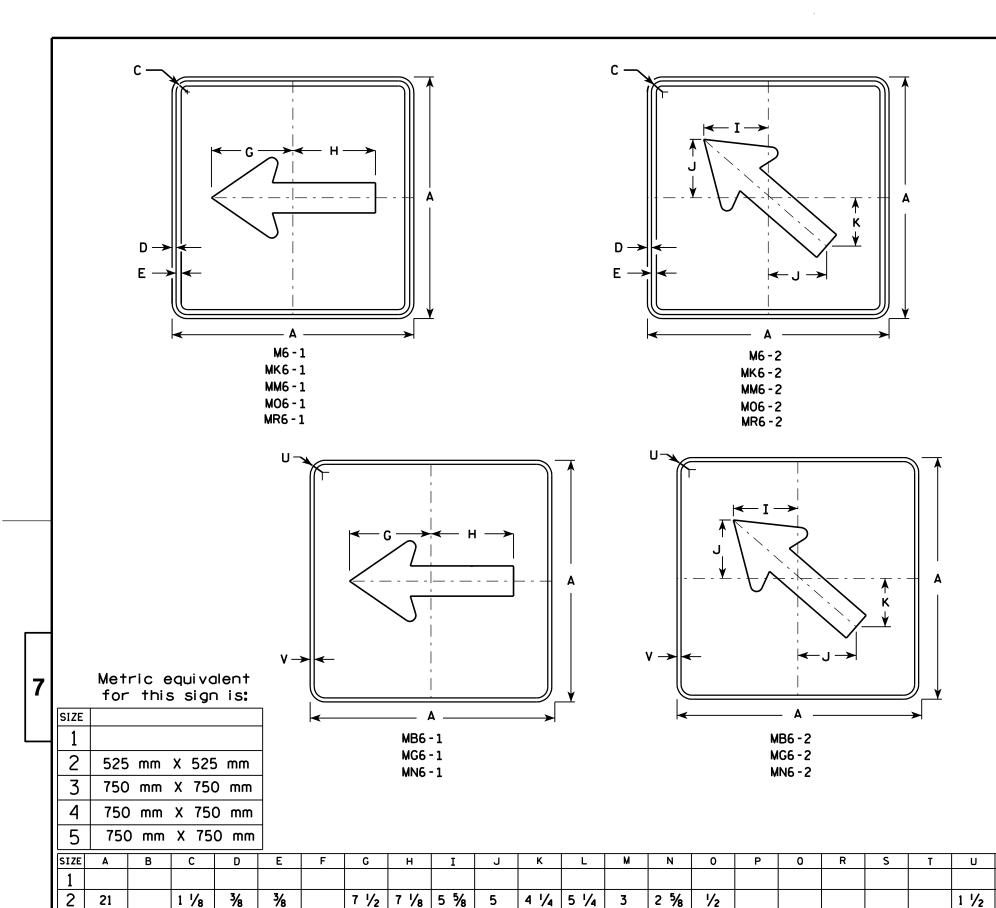
FILE NAME : C:\Users\PROJECTS\tr_stdplate\M51.DGN

PLOT DATE: 16-MAR-2010 11:03

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

WISDOT/CADDS SHEET 42



- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White Type H Reflective
 (Detour or temporary Signs Reflective)
 Message Black
 - MB6-1 and MB6-2 Background Blue

 Message White Type H Reflective

 (Detour or temporary Signs Reflective)
 - MG6-1 and MG6-2 Background Green

 Message White Type H Reflective
 - MK6-1 and MK6-2 Background Green

 Message White Type H Reflective
 - MM6-1 and MM6-2 Background White Type H Reflective Message Green
 - MN6-1 and MN6-2 Background Brown

 Message White Type H Reflective
- M06-1 and M06-2 Background Orange Reflective Message - Black

Area Area sq. ft. m2

6.25 0.56

0.28

0.56

0.56

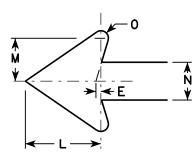
3.06

6.25

6.25

MR6-1 and MR6-2 Background - Brown

Message - Yellow - Type H Reflective



1/2

1/2

1/2

1 1/8

1 %

1 %

PLOT BY: dotsja

STANDARD	SIGN
M6-1 & N	<i>1</i> 6 - 2
SERIE	<u>-</u> S

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M61.DGN

1 3/8

1 3/8

1 3/8

1/2

1/2

1/2

5/8

5/8

10 3/4 10 1/4 8

10 3/4 10 1/4 8

10 3/4 10 1/4 8

HWY:

7 1/4

7 1/4

7 1/4

6

6

7 1/2

7 1/2

4 1/4 3 3/4

4 1/4 3 3/4

COUNTY:

7 1/2 4 1/4 3 3/4

3

4

5

30

30

30

PROJECT NO:

PLOT DATE: 16-MAR-2010 09:58

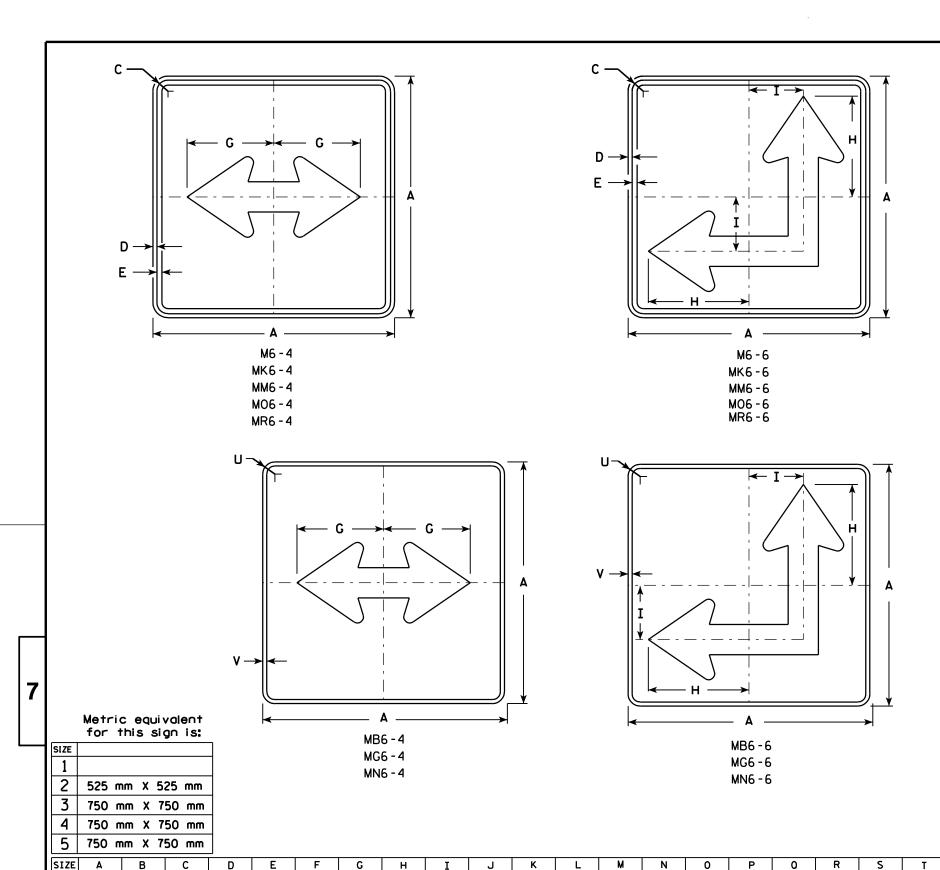
3/4

3/4

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

WISDOT/CADDS SHEET 42



- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
 - MB6-4 and MB6-6 Background Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - MG6-4 and MG6-6 Background - Green Message - White - Type H Reflective
 - MK6-4 and MK6-6 Background Green
 - Message White Type H Reflective MM6-4 and MM6-6 Background - White - Type H Reflective Message - Green
 - MN6-4 and MN6-6 Background Brown
 - Message White Type H Reflective M06-4 and M06-6 Background - Orange - Reflective
 - Message Black
- MR6-4 and MR6-6 Background Brown
- Message Yellow Type H Reflective 5. M6-6R same as M6-6L except arrow points ahead and right.

Areo Areo

6.25 0.56

0.28

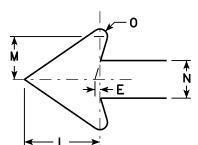
0.56

0.56

3.06

6.25

6.25



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M V	/ 	— -
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STANDARD SIGN M6-4 & M6-6**SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/16/10 PLATE NO. M6-4.7

SHEET NO:

Н

7 1/2 8 3/4 4 1/4

10 3/4 12 1/2 6 3/4

10 3/4 12 1/2 6 3/4

10 3/4 12 1/2 6 3/4

HWY:

I

J

COUNTY:

PLOT DATE: 16-MAR-2010 11:24

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3/4

3/4

2 %

5 1/4

3

7 1/2 4 1/4 3 3/4

7 1/2 | 4 1/4 | 3 3/4

4 1/4 3 3/4

PLOT BY: dotsja

1 1/2

1 1/8

1 %

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1/2

1/2

1/2

1/2

W

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

WISDOT/CADDS SHEET 42

1 1/8

1 3/8

1 3/8

1 3/8

3/8

1/2

1/2

1/2

3/8

5/8

5/8

2

3

4

5

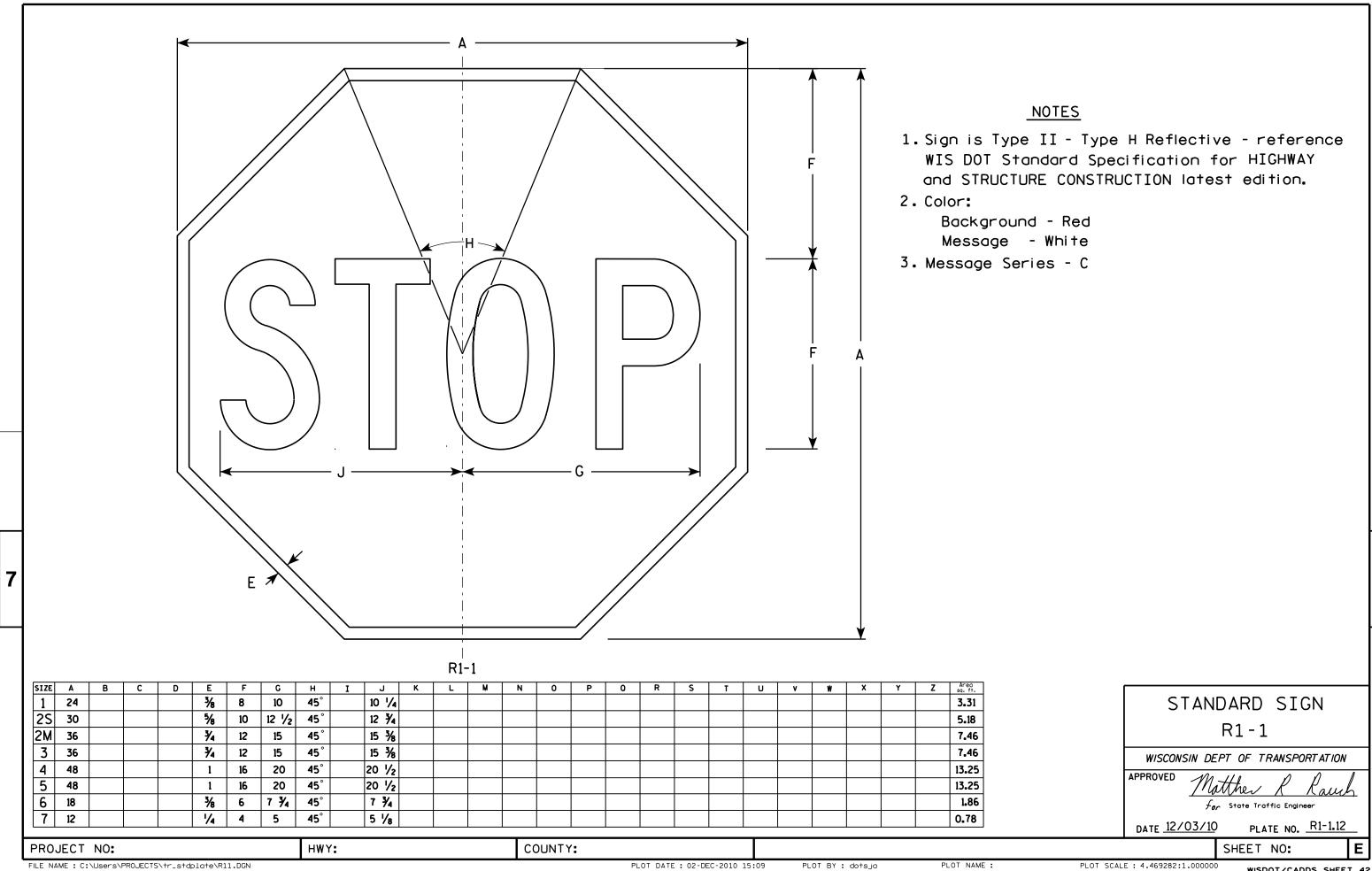
21

30

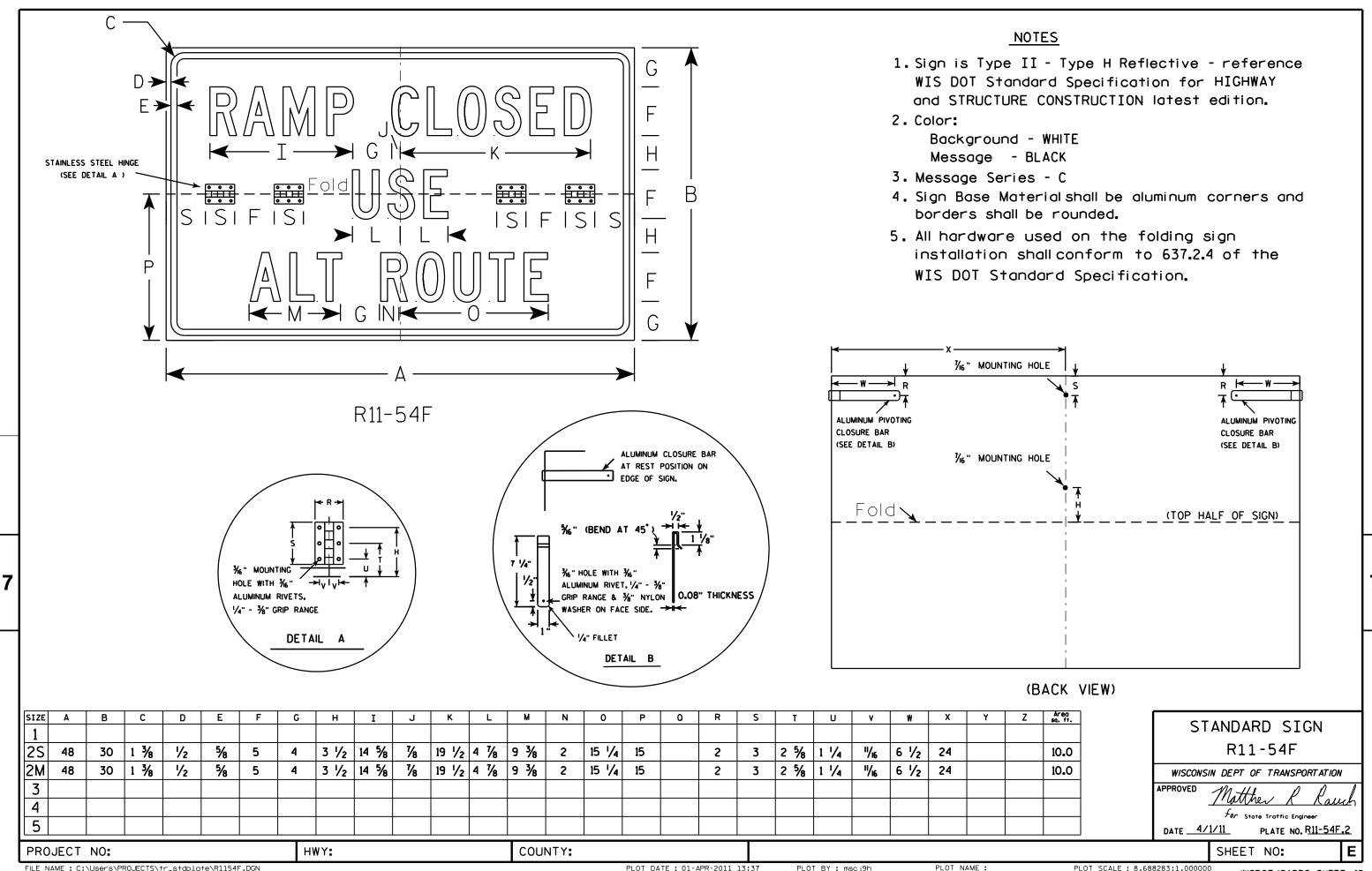
30

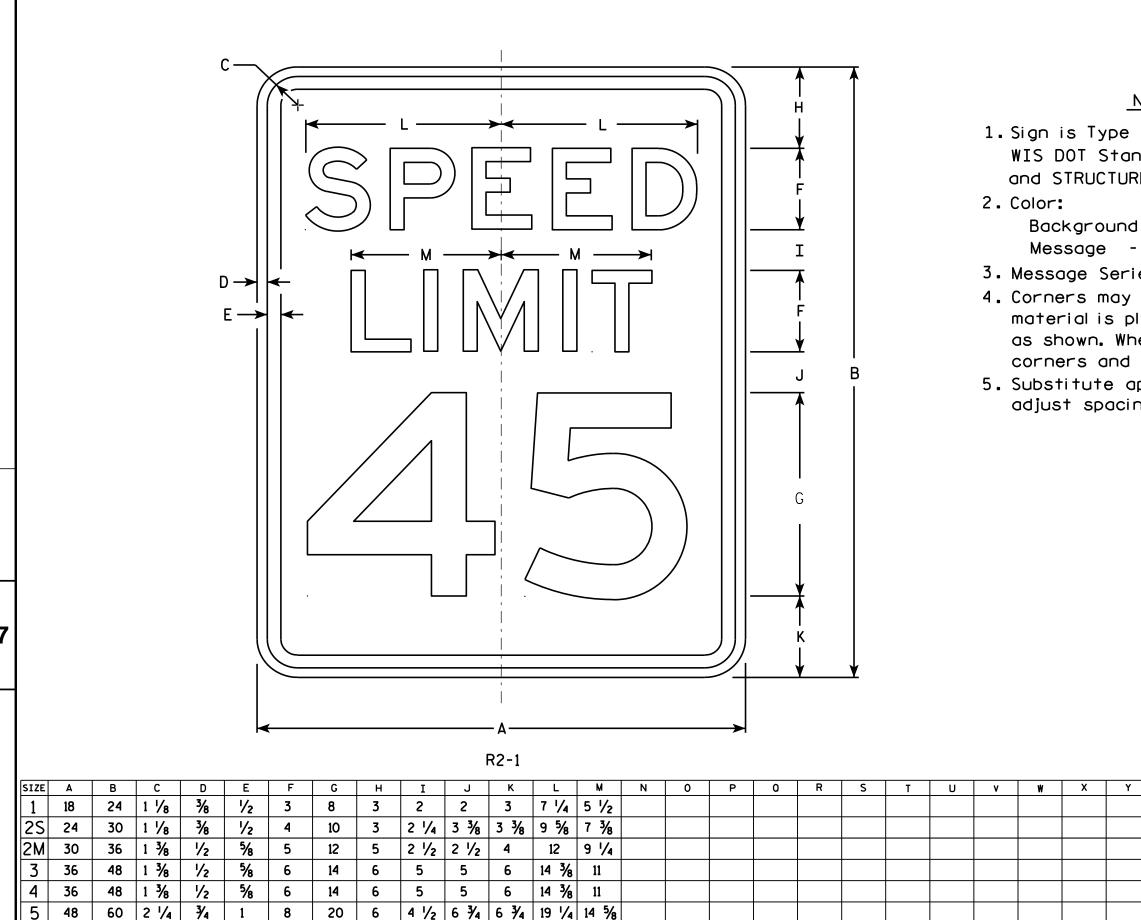
30

PROJECT NO:



WISDOT/CADDS SHEET 42





COUNTY:

NOTES

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

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal. the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raus

For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

PROJECT NO:

HWY:

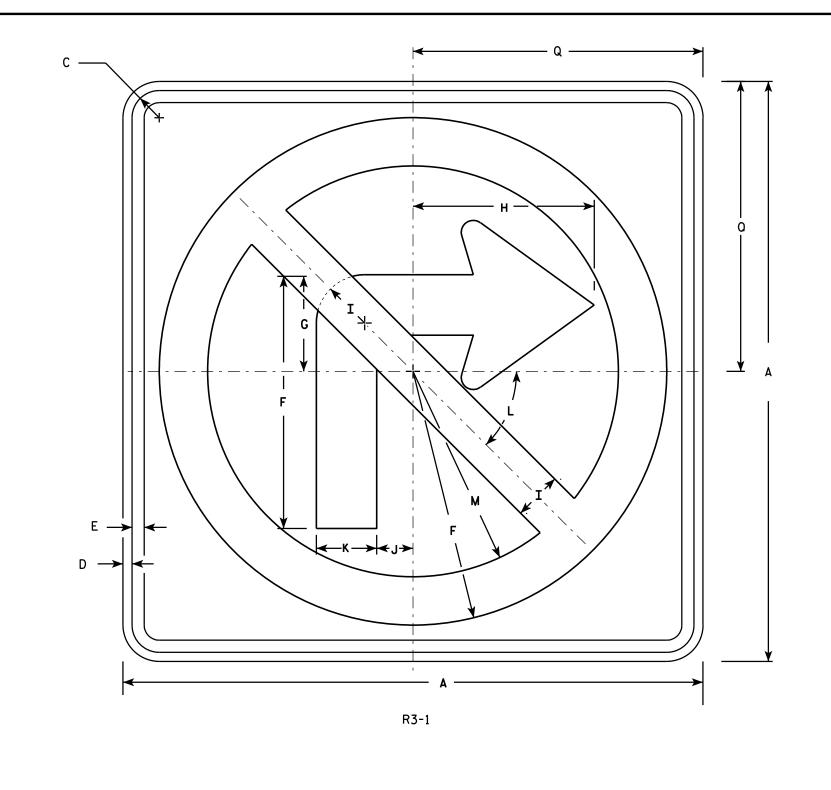
PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 4.717577:1.000000

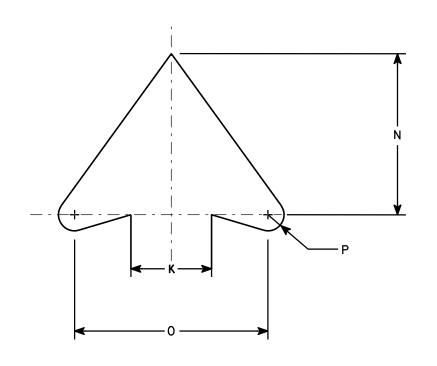
WISDOT/CADDS SHEET 42



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

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 ½	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 %	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

COUNTY:

STANDARD SIGN R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

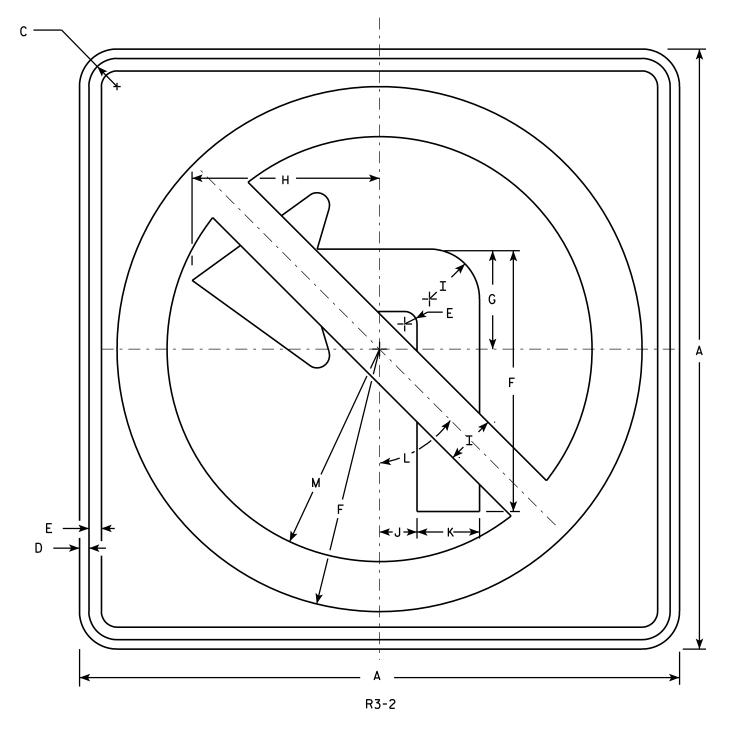
DATE 12/08/10

PLATE NO. __R3-1.5

SHEET NO:

HWY:

PROJECT NO:

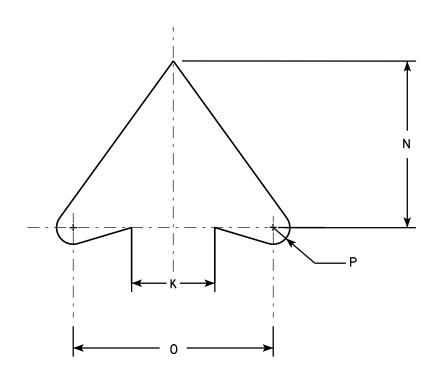


<u>NOTES</u>

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

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	C	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	V	₩	×	Y	Z	Area sq. ft
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Mat

For State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

SHEET NO:

HWY:

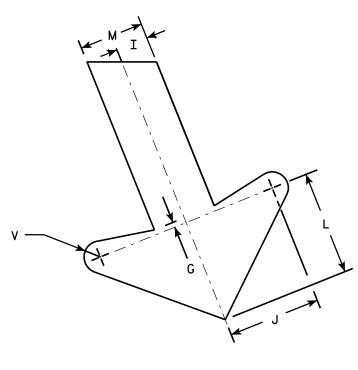
PROJECT NO:

PLOT NAME :

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

Background - White Message - Black

- 3. Message Series E
- 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.



|--|

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1																											
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 %	3	2 1/4	10 %	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

R3-20L

HWY:

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STANDARD SIGN R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew K

for State Traffic Engineer

DATE 10/18/10

/18/10 PLATE NO. R3-20L.7

SHEET NO: E

PROJECT NO:

R3-20R

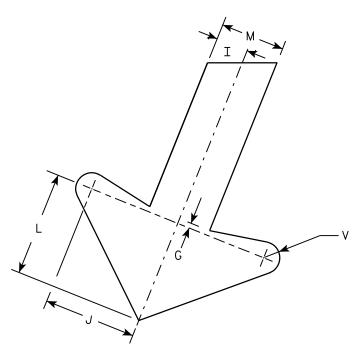
HWY:

NOTES

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

Background - White Message - Black

- 3. Message Series E
- 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.



ARROW DETAIL

																											1 4
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 ½	8 1/2	8 1/4		8 1/8	7	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 1/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

М

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STANDARD SIGN R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch
For State Traffic Engineer

SHEET NO:

DATE 10/18/10

PLATE NO. <u>R3-20R.</u>6

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320R.DGN

PROJECT NO:

PLOT DATE: 15-OCT-2010 14:59

PLOT BY: dotsja

PLOT NAME :

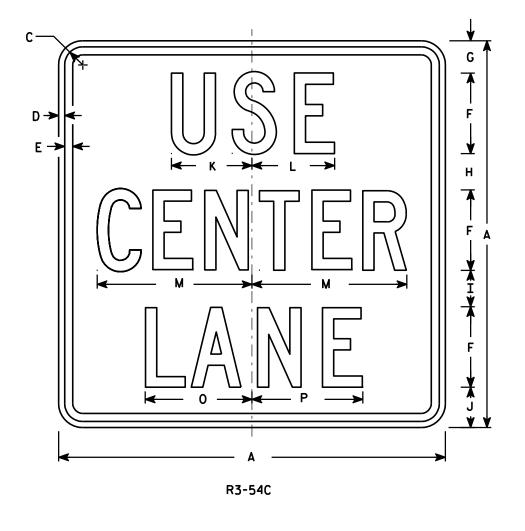
PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

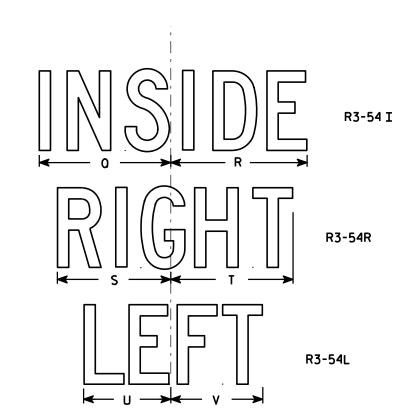
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



HWY:



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3⁄8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	9 %		6 %	6 %	8 1/8	8 1/2	7	7 %	5	5 ¾					4.0
2M	24		1 1/8	3⁄8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	9 %		6 %	6 %	8 1/8	8 1/2	7	7 %	5	5 3/4					4.0
3	36		1 %	5/8	3/4	7	4	3	3 ½	4 1/2	7 1/2	7 3/4	14 3/8		9 %	10 1/4	12 1/8	12 3/4	10 3/8	11 3/8	8	8 %					9.0
4																											
5																											1 7

COUNTY:

STANDARD SIGN R3-54C, I ,L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/24/2011

1/2011 PLATE NO. R3-54.8

SHEET NO:

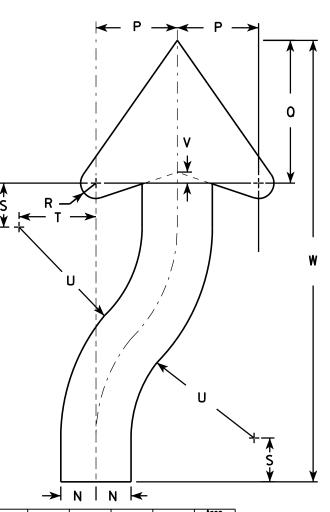
PROJECT NO:

PLOT NAME :

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
- 4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

																							→	N I	N 		
SIZE	Α .	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Areg sq. ft.
1	18	24	1 1/8	3∕8	1/2	3 %	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2 22	1/2	3 1/2	6 1/8	5/8	1 1/8	3 1/4	6 3/4	1/2	20 ¾				3.0
25	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2 3	30	4 %	8 1/8	7 ⁄8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
21	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2 3	30	4 %	8 1/8	7 ⁄8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 3/4	3 4	15	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 ¾				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3 4	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 %	5	8 ¾	18	1 1/4	50 1/4				20.0

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

For State Traffic Engineer DATE 3/25/2011

PLATE NO. R4-7.8

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R47.DGN

PROJECT NO:

D→

HWY:

PLOT DATE: 25-MAR-2011 14:10

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.462457:1.000000

<u>NOTES</u>

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

Background - See detail Message - White - Type H Reflective

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

Whi te Red White R5-1

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
3	36		2 1/4		6	5	7 1/2	2 ½	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 %	14 1/2	23 1/2	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

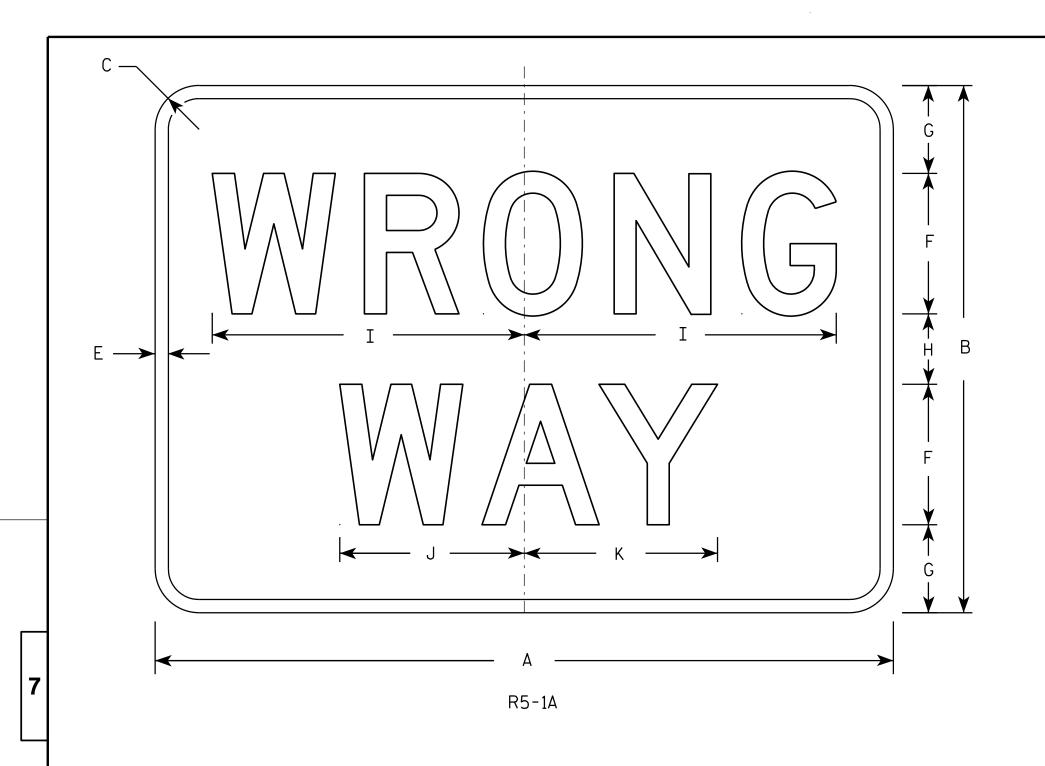
DATE 12/17/10 PLATE NO. R5-1.15

SHEET NO:

PROJECT NO:

HWY:

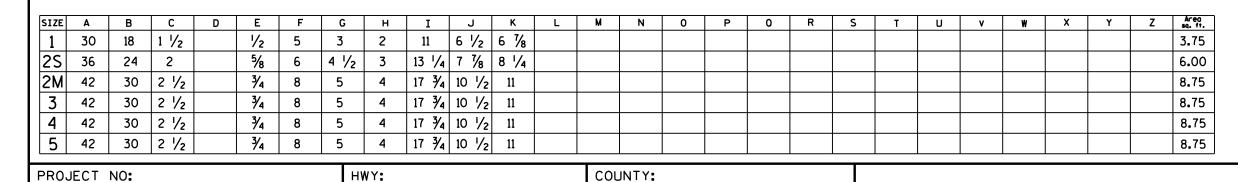
PLOT NAME :



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

Background - Red Message - White

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



STANDARD SIGN R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raud

For State Traffic Engineer PLATE NO. R5-1A.2

DATE 12/17/10

SHEET NO:

PROJECT NO:

PLOT NAME :



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

Background - White Message - Black

- 3. Message Series Lines 1, 2, and 5 are Series C. Lines 3 and 4 are Series B.
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE 2M 3 4 5/8 3 1/2 14 1/4 14 7/8 11 11 1/2 4 3/4 1 3/4 1 3/8 2 1/2 1 3/4 15 1/2 13 36 1 1/8 3/4 3 1 1 13 % 9.0 4 11 1/2 4 3/4 1 3/4 5 3 $3 \frac{1}{2} 14 \frac{1}{4} 14 \frac{7}{8} 11$ $1\frac{3}{8}$ 2 1/2 1 3/4 | 15 1/2 36 2 13 9.0 11

COUNTY:

STANDARD SIGN R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauh

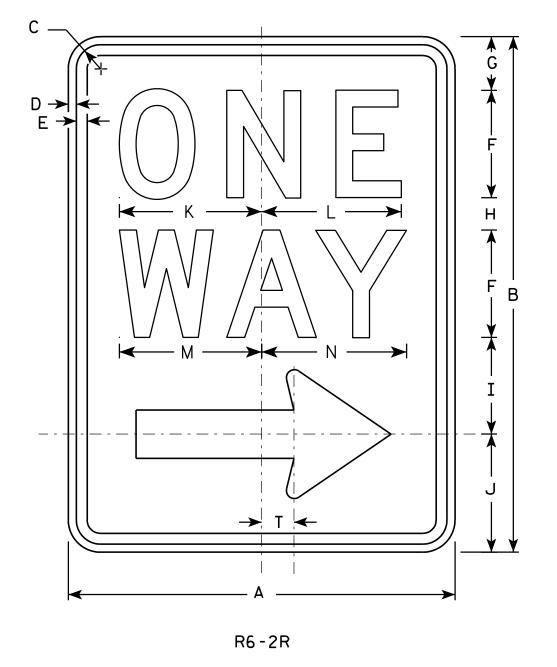
DATE 3/29/2011 PLATE NO. R5-57.10

SHEET NO:

PROJECT NO:

HWY:

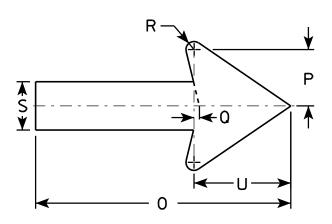
PLOT NAME :



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

Background - White Message - Black

- 3. Message Series D
- 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. R6-2L same as R6-2R except arrow points to the left.



SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	М	N	0	Р	0	R	S	Т	J	٧	W	Х	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 ½	6 %	6 1/2	6 %	6 ¾	11 %	2 %	1/4	3⁄8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 ½	7	8 1/8	8 1/8	8 1/2	8 %	16	3 ½	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 %	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
4	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 ½	24	5 %	1/2	3/4	4 3/4	3	9					
5	·																			·		·		·		
1																										

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R62.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT NAME :

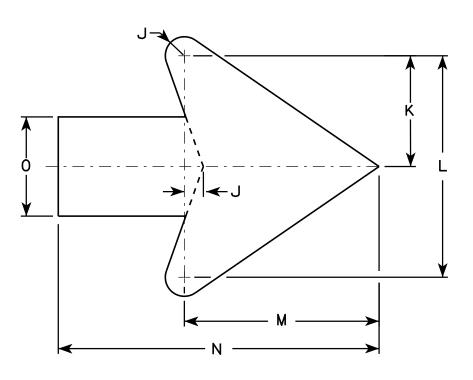
PLOT BY: ditjph

PLOT SCALE: 4.469282:1.000000

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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	Α	В	С	D	E	F	G	H	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Areo
1																											
25	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 %	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 1/8	3/4	4 1/2	9	7 1/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 ½	10 1/8	9 %	15 ¾	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

COUNTY:

W12-1D

STANDARD SIGN W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Fer State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN

HWY:

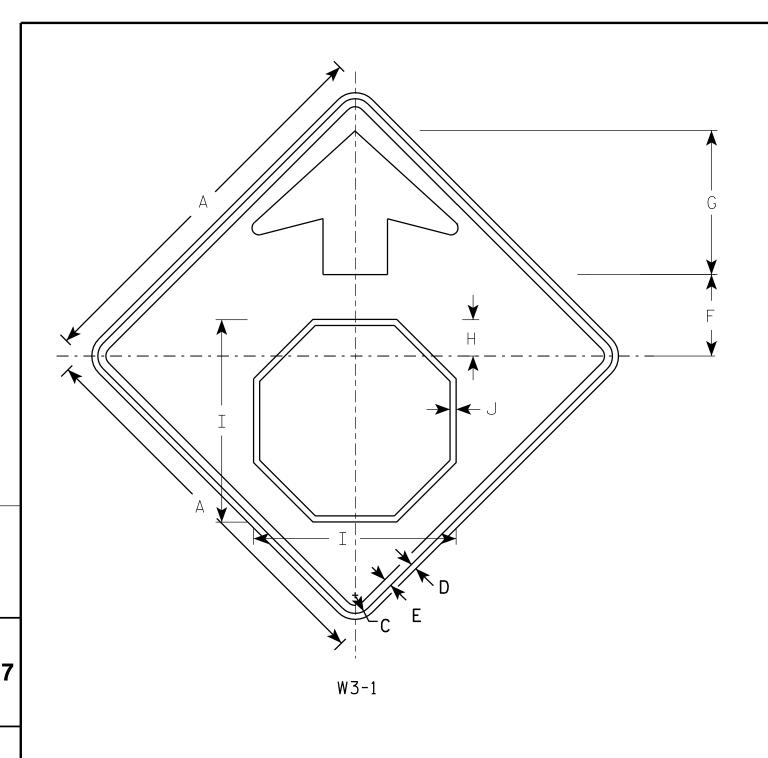
PROJECT NO:

PLOT DATE: 13-MAR-2013 13:26

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 4.713802:1.000000

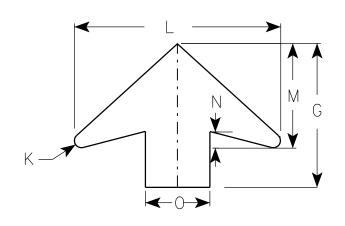


- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - YELLOW

Arrow & Border - BLACK

Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW	DFTAII
AININOW	DLIAL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	P	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 %	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 %	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
2M	36		1 %	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 %	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7 /8	25 %	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	½	25 %	13	2	8												16.0

STANDARD SIGN W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Ra

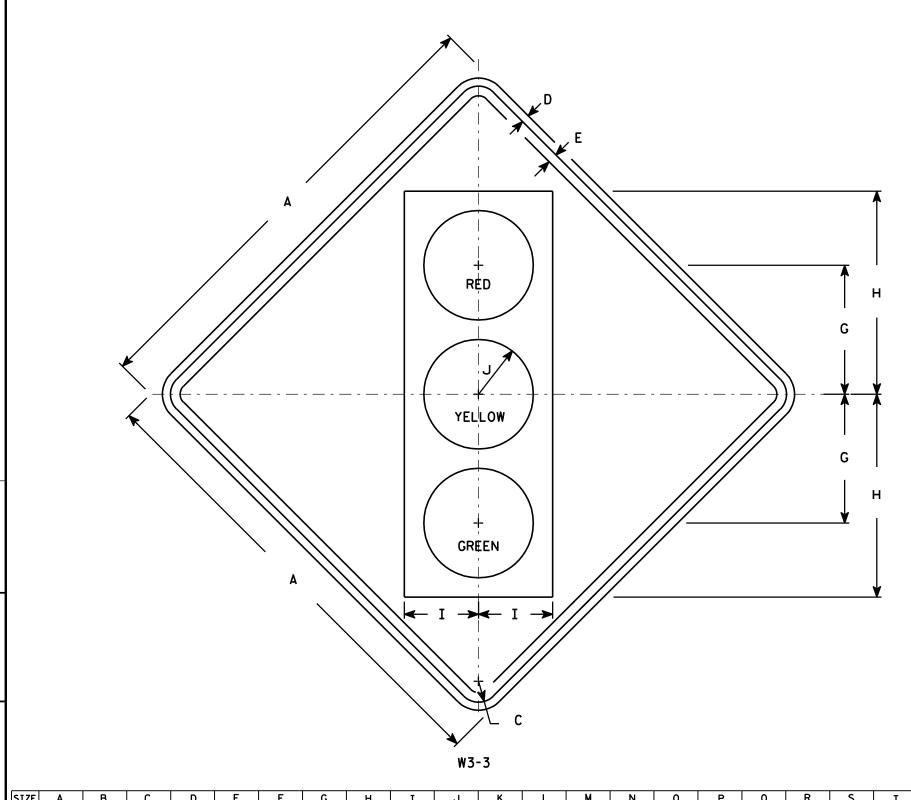
For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN

PROJECT NO:



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

Background - Yellow Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Symbol and border are non-reflective black. Top circle - Type H Reflectorized Red Center circle - Same as background Bottom circle - Type H Reflectorized Green

SIZE Α 1 3/8 1/2 13 3/4 5 5/8 8 3/4 3 3/4 30 6.25 25 1 % 5/8 15 3/4 5 3/4 4 1/4 36 3/4 9.0 2M 15 3/4 5 3/4 4 1/4 36 1 % 5/8 9.0 3 36 1 % 5/8 15 3/4 5 3/4 4 1/4 9.0 3/4 4 12 1/2 20 7 1/2 5 48 2 1/4 16.0 12 1/2 5 20 7 1/2 5 48 2 1/4 16.0

COUNTY:

STANDARD SIGN W3 - 3

WISCONSIN DEPT OF TRANSPORTATION

for State Traffic Engineer DATE 6/7/10 PLATE NO. W3-3.11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN

HWY:

PROJECT NO:

PLOT DATE: 07-JUN-2010 13:07

PLOT BY: ditjph

PLOT NAME :

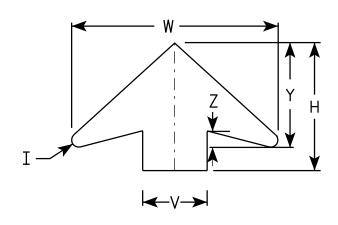
PLOT SCALE: 7.448805:1.000000

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

 Background YELLOW*

 Message BLACK
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3∕8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 ¾	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	%	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	1 / ₈	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 ¾	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 5/29/12 PLATE NO. W3-5.5

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W35.DGN

PROJECT NO:

PLOT DATE: 29-MAY-2012 10:52

PLOT BY: mscsja

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

W4-1R

HWY:

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 %	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 ¾	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 %	10 %	11 3/8	7 ⁄8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 ¾	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 %	10 %	11 3/8	7∕8									9.0
3	36		1 %	5/8	3/4	14	2 3/4	6	15 ¾	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 %	10 %	11 3/8	1 /8									9.0
4	48		2 1/4	₹4	1	18 3/4	3 %	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 ¾	3 %	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4				·	·				16.0
					•										•												

COUNTY:

STANDARD SIGN W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Raw

For State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W41.DGN

PROJECT NO:

PLOT DATE: 12-MAR-2013 11:06

PLOT BY: mscsja

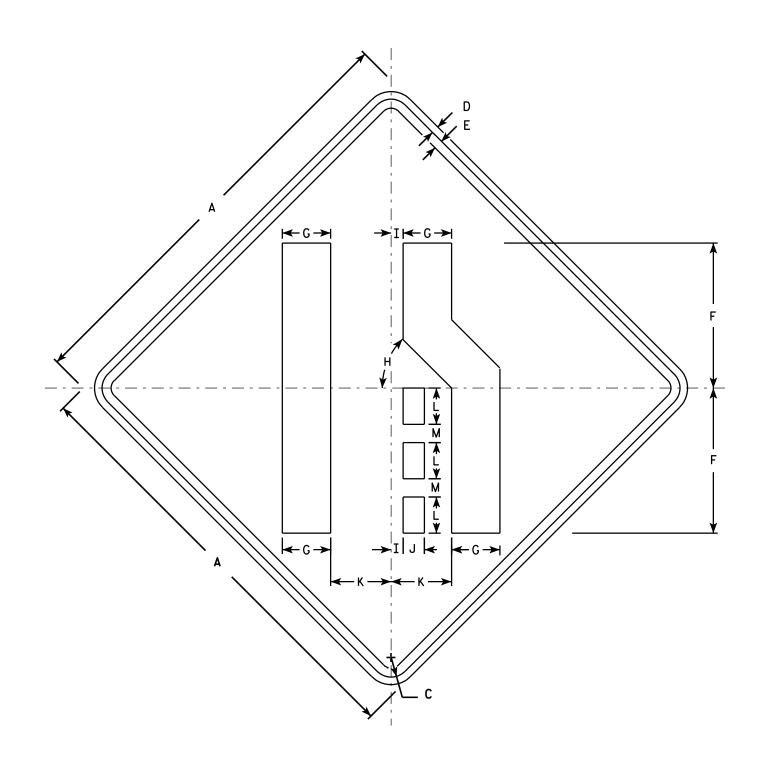
PLOT NAME :

PLOT SCALE : 6.202372:1.000000

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W4-2L is the same as W4-2R except the symbolis reversed along the vertical centerline.



W4-2R

SIZE	Α	В	С	D	Е	F	G	Н	I	7	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft
1	30		1 3/8	1/2	5/8	10	3 %	45°	%	1 1/2	4 1/4	2 1/2	1 1/4														6.25
25	36		1 %	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 %	5/8	₹4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 %	5/8	₹4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 ¾	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN W4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/12/13

PLATE NO. W4-2.14

SHEET NO:

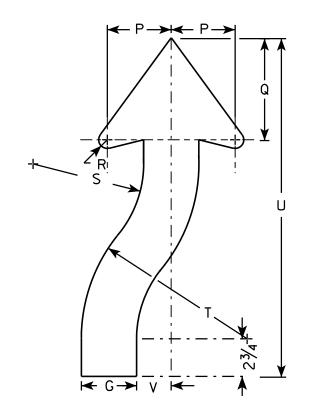
PROJECT NO:

PLOT BY: mscsja

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Ρ	0	R	S	Т	U	٧	W	Х	Y	Z	Areg sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 1/8	25	1 3/4	11 %	4 1/8	3 %	6 3/4	5/8	6 %	9 %	21 %	2					6.25
2S	36		1 1/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 %	7 3/8	7 /8	8	12	24 1/2	2 1/2					9.0
2M	36		1 1/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 %	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 %	13 %	6 3/8	12 5/8	40	2 5/8	18 %	6 %	6 1/4	9 %	1 1/4	10 %	16	32 %	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 %	18 %	6 %	6 1/4	9 %	1 1/4	10 %	16	32 %	3 3/8					16.0

COUNTY:

W6-1

← G → ← G →

STANDARD SIGN W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
for State Traffic Engineer

DATE <u>03/12/13</u>

PLATE NO. <u>W6-1.14</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN

PROJECT NO:

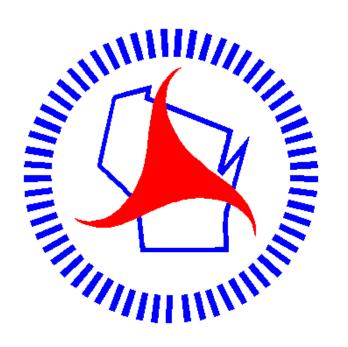
HWY:

PLOT DATE: 12-MAR-2013 14:02

PLOT BY: mscsja

PLOT SCALE: 6.946657:1.000000

Notes



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