EAUJANUARY 2016

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ORDER OF SHEETS

Section No. 1 Section No. 2 Typical Sections and Details

Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings

Estimate of Quantities

Section No. 7 Sian Plates Section No. 8 Structure Plans

TOTAL SHEETS = 46

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

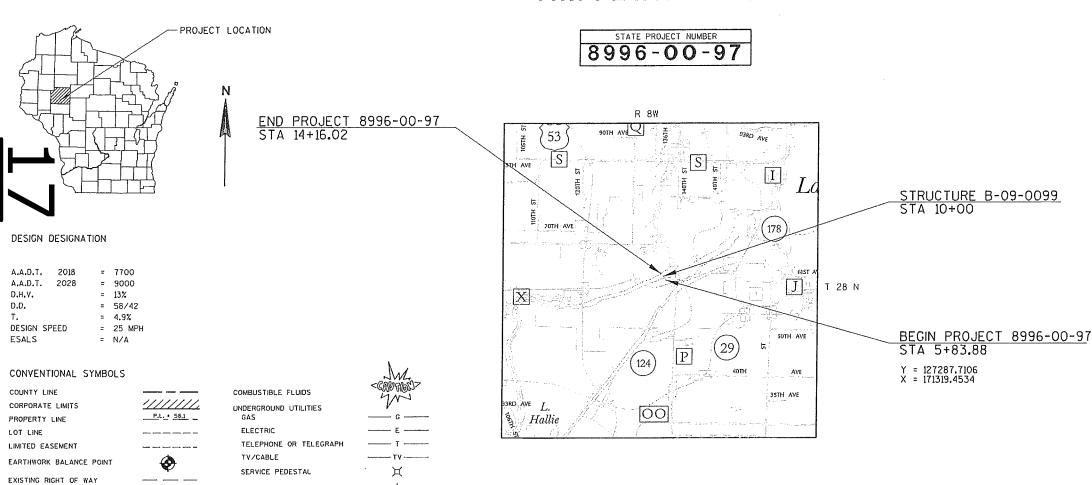
PLAN OF PROPOSED IMPROVEMENT

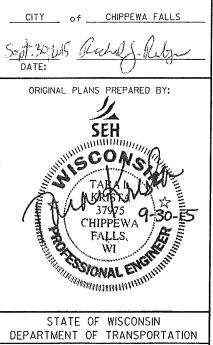
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 8996-00-97 WISC 2016014

CHIPPEWA FALLS, MAIN STREET

CHIPPEWA RIVER BRIDGE B-09-0099

LOCAL STREET CHIPPEWA COUNTY





ACCEPTED FOR

PREPARED BY Surveyor SEH Designer TARA WEISS DAN OJIBWAY Regional Supervisor

C.O. Examiner

PPROVED FOR THE DEPARTMENT

SURVEY LINE SLOPE INTERCEPT ORIGINAL GROUND

MARSH OR ROCK PROFILE

WOODED OR SHRUB AREA

-----__ROCK__

POWER POLE TELEPHONE POLE RAILROAD

SANITARY SEWER STORM SEWER EXISTING CULVERT PROPOSED CULVERT CULVERT (Profile View)

LAYOUT

TOTAL NET LENGTH OF CENTERLINE =0.158 MI.

PLOT BY : SEH

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Chippewa County,

STANDARD ABBREVIATIONS

ABUT	ABUTMENT	HYD	HYDRANT
AC	ACRE	ID	INSIDE DIAMETER
AGG	AGGREGATE	INV	INVERT
AECPRC	APRON ENDWALL FOR CULVERT PIPE	IP	IRON PIPE ON PIN
AECPRC	REINFORCED CONCRETE	LHF	LEFT-HAND FORWARD
ACDU			
ASPH	ASPHALTIC	L LF	LENGTH OF CURVE
AVG	AVERAGE		LINEAR FOOT
ADT	AVERAGE DAILY TRAFFIC	LC	LONG CHORD OF CURVE
BF	BACK FACE	LS	LUMP SUM
BM	BENCH MARK	MH	MANHOLE
BR	BRIDGE	MOR	MID POINT OF RADIUS
CE	COMMERCIAL ENTRANCE	NC	NORMAL CROWN
CL OR C/L OR &		NO	NUMBER
Δ	CENTRAL ANGLE OR DELTA	OBLIT	OBLITERATE
CONC	CONCRETE	PAVT	PAVEMENT
CPRC	CULVERT PIPE REINFORCED CONCRETE	PE	PRIVATE ENTRANCE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE	PVRC	POINT OF VERTICAL REVERSE CURVE
	HORIZONTAL ELLIPTICAL	QOR	QUARTER POINT OF RADIUS
CR	CREEK	R	RADIUS
CY	CUBIC YARD	REQ'D	REQUIRED
C & G	CURB AND GUTTER	RES	RESIDENCE OR RESIDENTIAL
D	DEGREE OF CURVE	RHF	RIGHT-HAND FORWARD
DHV	DESIGN HOUR VOLUME	R/W	RIGHT-OF-WAY
DISCH	DISCHARGE	R	RIVER
DG	DITCH GRADE	RDWY	ROADWAY
DWY	DRIVEWAY	R/L OR R	REFERENCE LINE
X	EAST GRID COORDINATE	SALV	SALVAGED
EAT	STEEL PLATE BEAM GUARD	SAN	SANITARY SEWER
	ENERGY ABSORBING TERMINAL	SF	SQUARE FEET
EOR	END POINT OF RADIUS	SY	SQUARE YARD
EL	ELEVATION	SDD	STANDARD DETAIL DRAWINGS
ENT	ENTRANCE	STA	STATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	SS	STORM SEWER
EXC	EXCAVATION	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
EBS	EXCAVATION BELOW SUBGRADE	SE	SUPERELEVATION RATE
EXIST	EXISTING	TC	TOP OF CURB
FC	FACE OF CURB	T OR TN	TOWN
FF	FACE TO FACE	Т	TRUCKS (PERCENT OF)
FERT	FERTILIZE	TYP	TYPICAL
FE	FIELD ENTRANCE	VAR	VARIABLE
FL	FLOW LINE	VC	VERTICAL CURVE
FO	FIBER OPTIC	Υ	NORTH GRID COORDINATE
CWT	HUNDREDWEIGHT	YD	YARD

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

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

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

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

BEARINGS SHOWN ON THE PLANS ARE PROJECT BEARINGS TO THE NEAREST SECOND.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER. REMOVAL LIMITS WILL BE DETERMINED BY THE ENGINEER.

THE 4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN A 2-INCH LOWER LAYER AND A 2-INCH UPPER LAYER.

UTILITY CONTACTS

AT&T WISCONSIN 304 SOUTH DEWEY EAU CLAIRE, WI 54701 TELEPHONE: 715.839.5565 ATTENTION: RICK PODOLAK EMAIL: RP4514@ATT.COM

CHARTER COMMUNICATIONS
1201 MCCANN DRIVE
ALTOONA, WI 54720
TELEPHONE: 715.831.8940 EXT. 619
ATTENTION: SHANE YODER
EMAIL: SHANE.YODER@CHARTERCOM.COM

CHIPPEWA VALLEY INTERNETWORKING CONSORTIUM (CINC) - COMMUNICATION 105 GARFIELD AVENUE EAU CLAIRE, WI 54701 TELEPHONE:715.836.5286 ATTENTION: DAREN BAUER EMAIL: BAUERD@UWEC.EDU

CITY OF CHIPPEWA FALLS
30 W. CENTRAL STREET
CHIPPEWA FALLS, WI, 54729
TELEPHONE: 715.726.2736
ATTENTION: RICK RUBENZER
EMAIL: RRUBENZER@CHIPPEWAFLLAS-WI.GOV



<u>DESIGN CONTACT</u>

SEH 10 NORTH BRIDGE STREET CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.720.6291 ATTENTION: TARA KRISTA EMAIL: TKRISTA@SEHINC.COM

WDNR CONTACT

WI DEPT OF NATURAL RESOURCES
1300 WEST CLAIREMONT AVENUE
SPOONER, WI 54801
TELEPHONE: 715.839.1609
ATTENTION: CHRIS WILLGER
EMAIL: CHRISTOPHERJ.WILLGER@WISCONSIN.GOV

PROJECT NO:8996-00-97

HWY: MAIN ST

COUNTY: CHIPPEWA

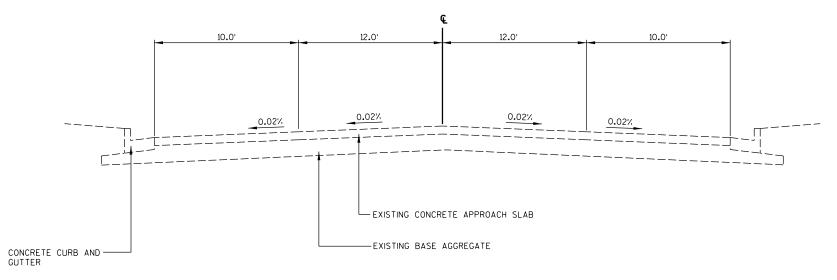
GENERAL NOTES

PLOT DATE: 7/30/2015

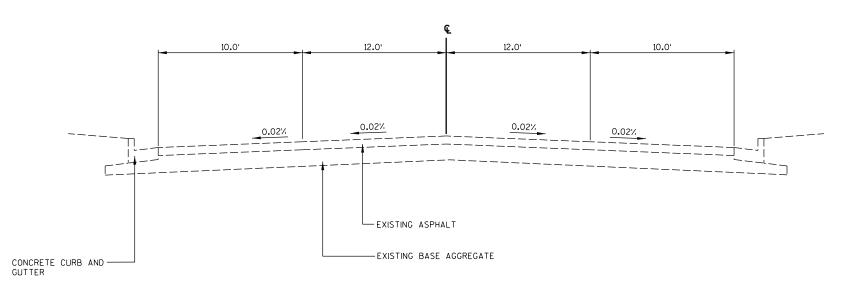
PLOT NAME :

SHEET

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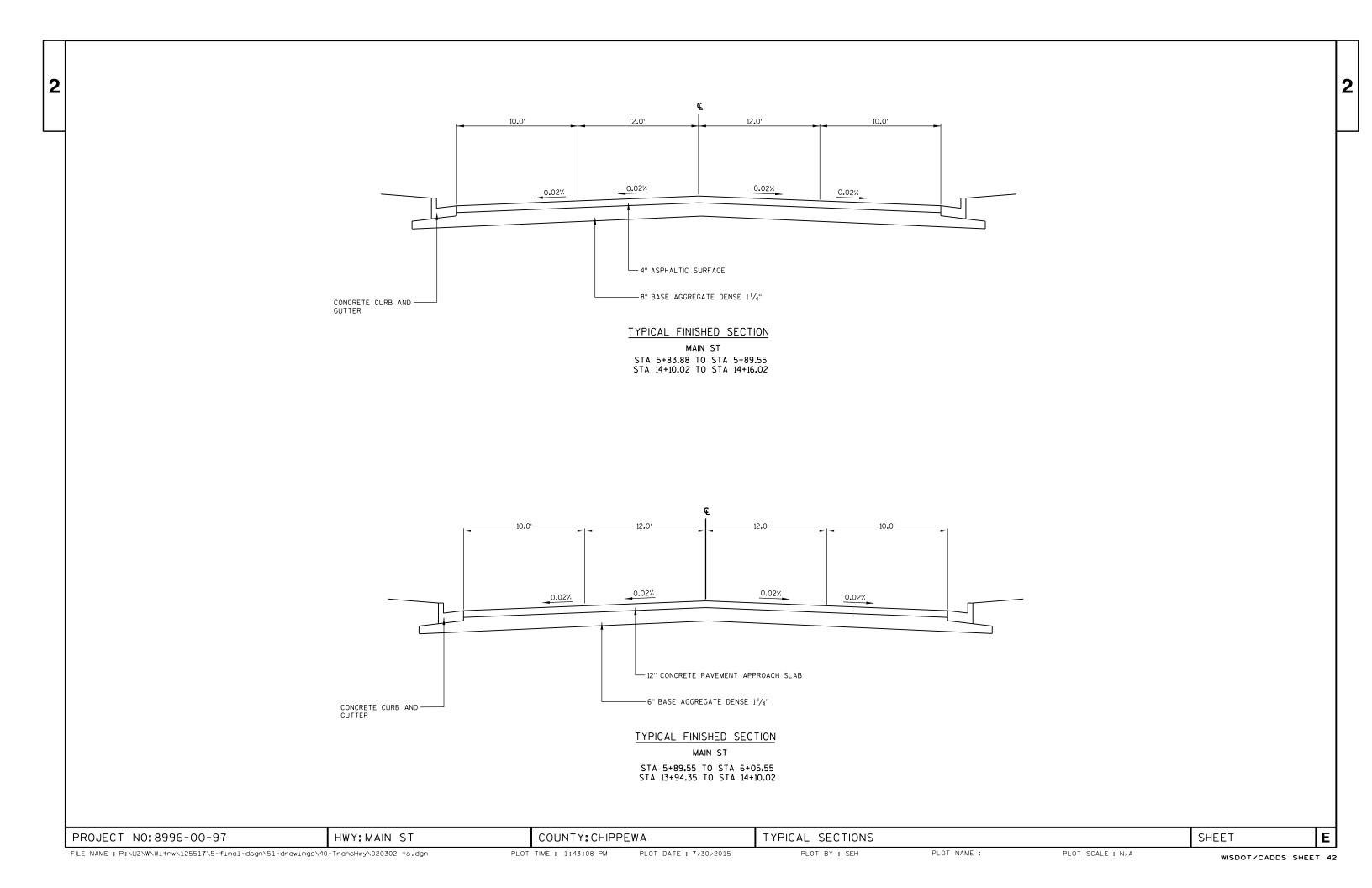
TYPICAL EXISTING SECTION MAIN ST STA 5+83.88 TO STA 6+05.55

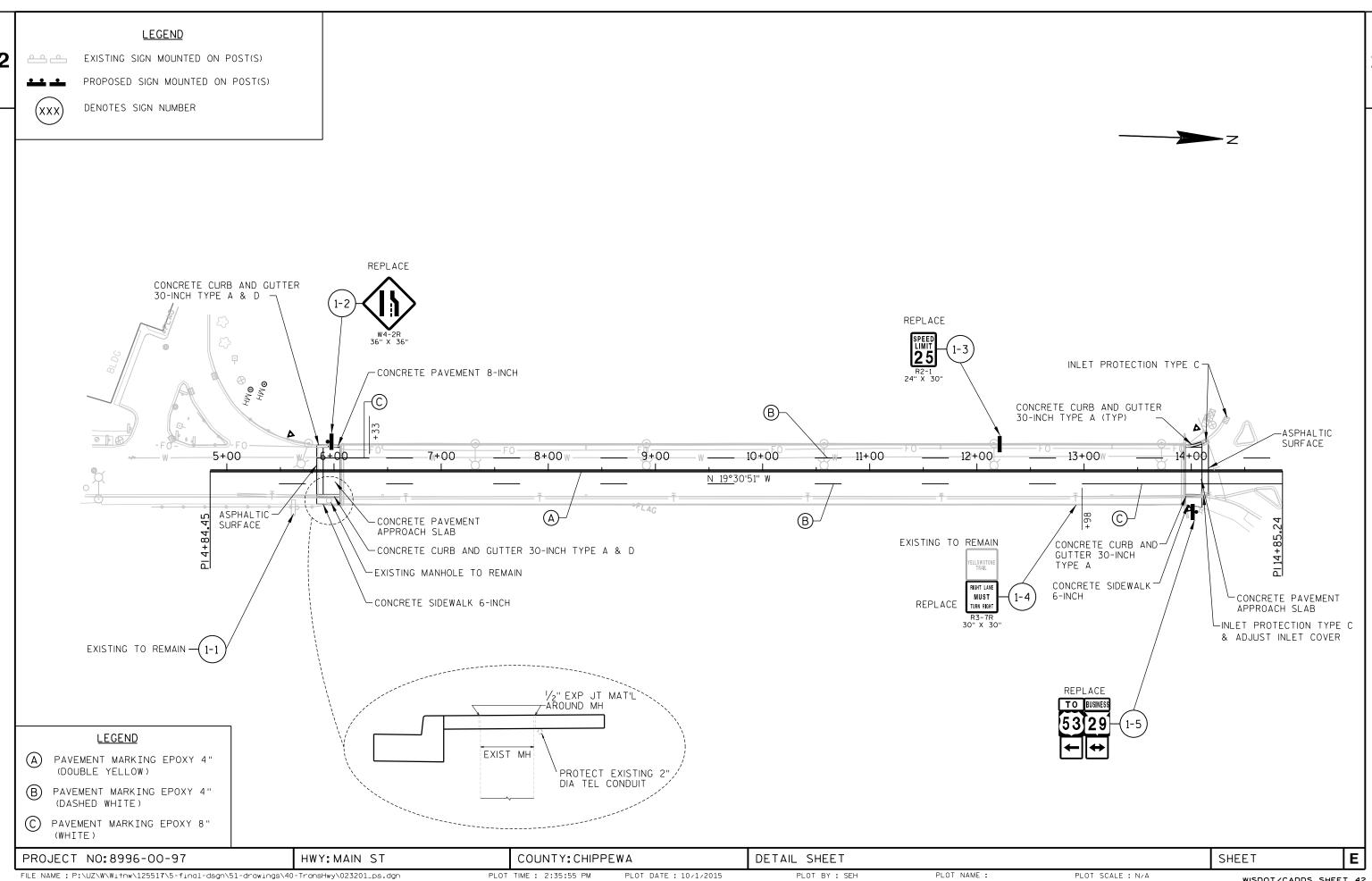


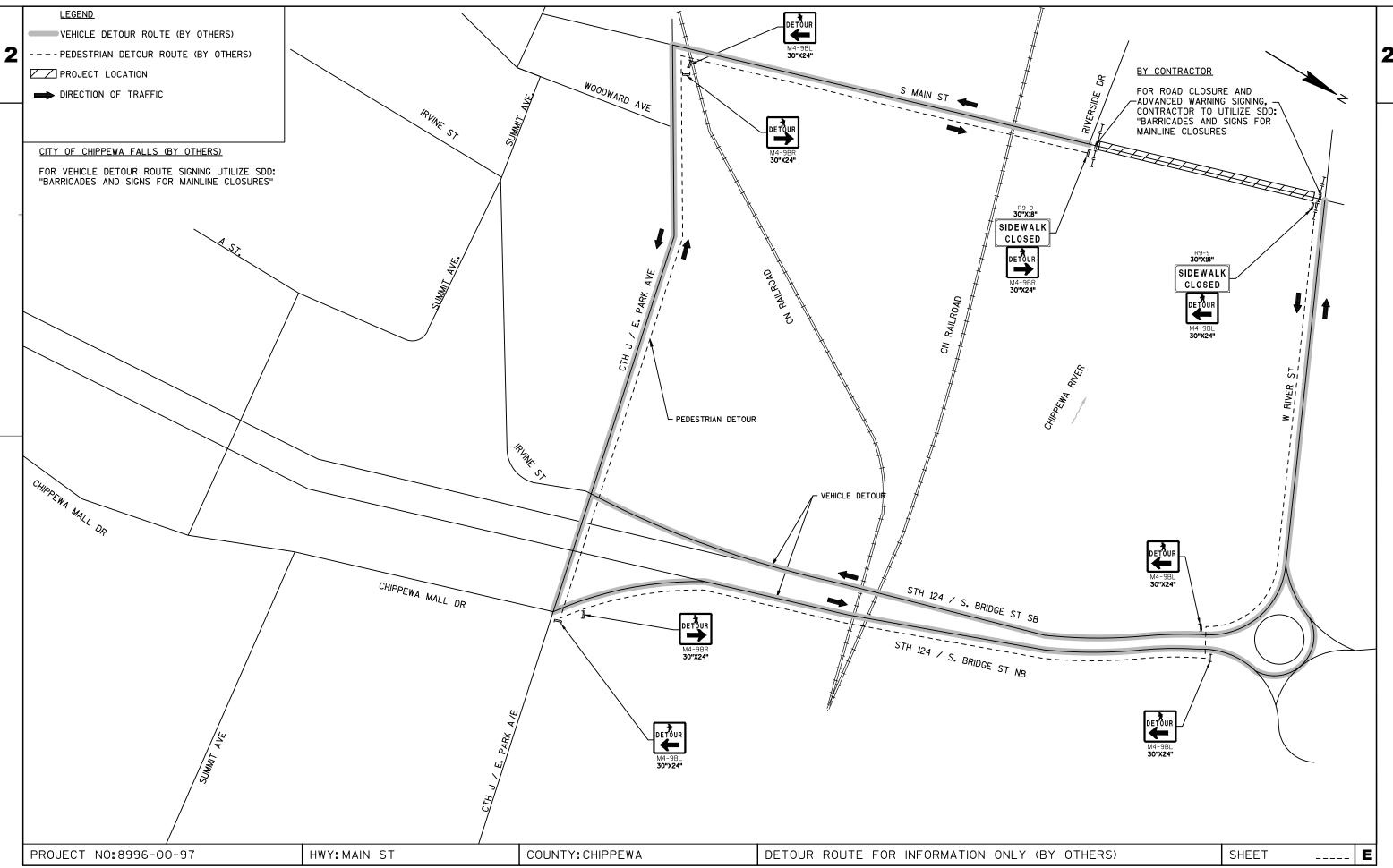
TYPICAL EXISTING SECTION

MAIN ST STA 13+94.35 TO STA 14+16.02

SHEET TYPICAL SECTIONS PROJECT NO:8996-00-97 HWY: MAIN ST COUNTY: CHIPPEWA PLOT BY : SEH







DATE 21 LINE	OCT15	ESI	ГІМАТ	E OF QUAN	T I T I E S 8996-00-97
NUMBER 0010		ITEM DESCRIPTION 5 Debris Containment (structure) 01. B-9-99	UNI T LS	TOTAL 1. 000	QUANTI TY 1. 000
0020	204. 0100	Removing Pavement	SY	108.000	108. 000
0030	204. 0150	Removing Curb & Gutter	LF	65. 000	65. 000
0040	204. 0155	Removing Concrete Sidewalk	SY	31. 000	31.000
0050	205. 0100	Excavation Common	CY	70. 000	70. 000
0060	211. 0100	Prepare Foundation for Asphaltic Paving (project) 01. 8996-00-97	LS	1. 000	1. 000
0070	211. 0200	Prepare Foundation for Concrete Pavement (project) 01. 8996-00-97	LS	1. 000	1. 000
0800	213. 0100	Finishing Roadway (project) 01. 8996-00-97	EACH	1. 000	1. 000
0090	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	81.000	81. 000
0100	415. 0080	Concrete Pavement 8-Inch	SY	3. 000	3. 000
0110	415. 0410	Concrete Pavement Approach SI ab	SY	154. 000	154. 000
0120	416. 0610	Drilled Tie Bars	EACH	10.000	10.000
0130	465. 0105	Asphaltic Surface	TON	14.000	14.000
0140 0150	502. 0/17. S 502. 3100	6 Crack Sealing Epoxy Expansion Device (structure) 01. B-9-99	LF LS	3, 000. 000 1. 000	3, 000. 000 1. 000
				1.000	1.000
0160	502. 3200	Protective Surface Treatment	SY	4, 210. 000	4, 210. 000
0170	502. 5005	Masonry Anchors Type L No. 5 Bars	EACH	108.000	108.000
0180	505. 0600	Bar Steel Reinforcement HS Coated Structures	LB	2, 600. 000	2, 600. 000
0190	506. 0105	Structural Steel Carbon	LB	550.000	550.000
0200	509. 0301	Preparation Decks Type 1	SY	70. 000	70. 000
0210	509. 0302	Preparation Decks Type 2	SY	60. 000	60. 000
0220	509. 0500	Cleaning Decks	SY	4, 170. 000	4, 170. 000
0230	509. 1000	Joint Repair	SY	50. 000	50.000
0240	509. 1200	Curb Repair	LF	20.000	20. 000
0250	509. 1500	Concrete Surface Repair	SF	10. 000	10. 000
0260	509. 2000	Full-Depth Deck Repair	SY	300.000	300.000
0270	509. 2500	Concrete Masonry Overlay Decks	CY	184. 000	184. 000
0280	514.0900	Adjusting Floor Drains	EACH	8. 000	8. 000
0290	601. 0409	Concrete Curb & Gutter 30-Inch Type A	LF . –	53. 000	53. 000
0300	601. 0411	Concrete Curb & Gutter 30-Inch Type D	LF	12. 000	12. 000
0310	602. 0415	Concrete Sidewalk 6-Inch	SF	273. 000	273. 000
0320	611. 8115	Adjusting Inlet Covers	EACH	1. 000	1. 000
0330	619. 1000	Mobilization	EACH	1.000	1. 000
0340	628. 1905	Mobilizations Erosion Control	EACH	1.000	1.000
0350	628. 1910	Mobilizations Emergency Erosion Control	EACH	1. 000	1. 000
0360	628. 7015	Inlet Protection Type C	EACH	3. 000	3. 000
0370	634. 0616	Posts Wood 4x6-Inch X 16-FT	EACH	2. 000	2. 000
0380	637. 2210	Signs Type II Reflective H	SF	30. 250	30. 250
0390	637. 2230	Signs Type II Reflective F	SF	9.000	9.000
0400	638. 2602	Removing Signs Type II	EACH	4. 000	4. 000
0410	638. 3000	Removing Small Sign Supports	EACH	7. 000	7. 000
0420	642. 5001	Field Office Type B	EACH	1.000	1.000
0430	643. 0100 643. 0420	Traffic Control (project) 01. 8996-00-97 Traffic Control Barricades Type III	EACH DAY	1. 000 714. 000	1. 000 714. 000
0440 0450	643. 0420 643. 0705	Traffic Control Warning Lights Type A	DAY	1, 428. 000	1, 428. 000
				· 	
0460	643. 0900	Traffic Control Signs	DAY	918. 000	918. 000
0470	643. 1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0480 0490	646. 0106 646. 0126	Pavement Marking Epoxy 4-Inch Pavement Marking Epoxy 8-Inch	LF LF	2, 050. 000 172. 000	2, 050. 000 172. 000
0500	650. 7000	Construction Staking Concrete Pavement	LF LF	32. 000	32. 000
2200	555.7500	TELESTICAL STARTING CONDICTO PAVOINGITE		02.000	J2. 000

DATE 21 LINE	0CT15	E	STIMATE	OF QUAN	TITIES 8996-00-97
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0510	650. 9910	Construction Staking Supplemental Control (project) 01. 8996-00-97	LS	1. 000	1. 000
0520	690. 0150	Sawing Asphal t	LF	95.000	95.000
0530	690. 0250	Sawing Concrete	LF	26.000	26.000
0540	SPV. 0060	Special 01. Cleaning and Painting Bearings	EACH	18. 000	18. 000
0550	SPV. 0060	Special O2. Installing Utility Support for CINC	t EACH	4. 000	4. 000
0560	SPV. 0060	Special 03. Installing Utility Support for City of Chippewa Falls	EACH	10. 000	10. 000

REMOVING PAVEMENT	PREPARE FOL 211.0100 FOR ASPHALTIC PAVING	211.0200 FOR CONCRETE PAVEMENT	30- TY	.0409 601.0411 416.0610 INCH 30-INCH DRILLED PE A TYPE D TIE BARS
STATION - STATION LOCATION SY REMAR	MAIN ST 5+84 - 14+16	ASPHALTIC SURFACE 1 CONCRETE APPROACH SLAB	MAIN ST 5+84 - 5+90 LT & RT 5+90 - 5+95 LT 5+90 - 6+06 RT 13+94.35 - 14+10 RT	12 5 16 5 5
	FINISHING ROADWA	AY (8996-00-97)	TOTAL	53 12 10
REMOVING CURB & GUTTER 204.0150 STATION - STATION LOCATION LF MAIN ST 5+84 - 5+90 LT & RT 12 5+90 - 5+95 LT 5 5+90 - 6+06 RT 16 13+94 - 14+10 LT & RT 32	MAIN ST. 5+84 - 14+16 L	213.0100 DCATION EACH TOTAL 1	CONCRETE SIDEV STATION - STATION LOCAT MAIN ST 5+84 - 6+06 RT 13+94 - 14+10 RT TOTAI	602.0415 ION SF 143 130
TOTAL 65 REMOVING CONCRETE SIDEWALK 204.0155 STATION - STATION LOCATION SY	### BASE AGGREGATE D STATION - STATION LOCATION TO MAIN ST	REMARKS B ASPHALTIC SURFACE CONCRETE APPROACH SLAB CONCRETE APPROACH SLAB ASPHALTIC SURFACE	MOBILIZAT STATION - STATION LOCA MAIN ST 5+84 - 14+16 LT & TOT *QUANTITY SHOWN ELSEWHER	619.1000* EACH RT 0.05 AL 0.05
MAIN ST 5+84 - 6+06 RT 16 13+94 - 14+10 RT 15 TOTALS 31	CONCRETE PAVEI STATION - STATION LOCA MAIN ST 5+95 - 6+06 L	415.0080 TION SY T 3	ADJUSTING INLE STATION - STATION LOCATI MAIN ST 14+11 RT TOTAL	611.8115 ON EACH
EXCAVATION COMMON STATION - STATION LOCATION 205.0100 CY MAIN ST 13+94 - 14+16 LT & RT 70 TOTAL 70	CONCRETE PAVEMENT APPROACH SLAB 415.0410	ASPHALTIC SURFACE 465.0105 STATION - STATION LOCATION TON MAIN ST. 5+84 - 5+90 LT & RT 6 465.0105 14	### EROSION CONTRO ### 628.1905 ### MOBILIZATIONS EROSION CONTROL EACH ### AIN ST ### 14+16 ### LT & RT ### 4+32 ### LT ### TOTALS ### TOTALS ### 14	628.1910 628.70
			NOTE: ALL ITEMS AND QUANTITIE ESTIMATE CATEGORY 0010, UNLE	

3	SIGN GROUP NUMBER MAIN ST 1-1 1-2 1-3 1-4 1-5	W4-2R R2-1	SIGN MESSAGE WI HERITAGE LEINENKUGAL BREWING CO. #255 RIGHT LANE ENDS SPEED LIMIT 25 RIGHT LANE MUST TURN RIGHT YELLOWSTONE TRAIL TO USH 53 LEFT ARROW BUSINESS STH 29 DOUBLE ARROW TOTALS	SIGN SIZE W X H (INCHES) 36 X 36 24 X 30 30 X 30 48 X 57	SIGNING IT 637.2210 SIGNS TYPE II REFLECTIVE H SF 5.00 6.25 19.00	637.2230 SIGNS TYPE II	634.0616 4X6-INCH X 16-FT EACH 1 1	638.2602 REMOVING SIGNS TYPE II EACH 1 1 1	638.3000 REMOVING SMALL SIGN SUPORTS EACH 1 1 1 1 1 1 7	REMARKS EXISTING TO REMAIN EXISTING TO REMAIN REPLACE BAND TO LIGHT POST REPLACE EXISTING TO REMAIN REPLACE	CONSTRUCTION STAKING
	FIELD STATION - STATION MAIN ST 5+84 - 14+16	OFFICE TYP LOCATION LT & RT TOTAL	642.5001 EACH	<u>STATION - S</u> WAIN ST 5+84 - 14+16		643.((8896-	TR CO 0100 BARI 00-97) T CH	3.0420 T A STANDARD TO THE STA	/ARNING T LIGHTS C	43.0900 RAFFIC 643.1050 DNTROL SIGNS SIGNS PCMS DAY DAYS 918 14 918 14	SAWING STATION - STATION LOCATION LOCATION G90.0150 ASPHALT CONCRETE LF REMARKS
			STATION - STATION L MAIN ST 5+84 - 14+16 5+84 - 6+33 5+84 - 12+92 6+33 - 14+16 12+92 - 14+16		EMENT MAR 646.0106 EPOXY 4-INCH LF 1662 188 200 2050	8KING 646.0126 EPOXY 8-INO LF 48 124	DOUBL W WHI WHI	MARKS E YELLOW (HITE TE SKIP TE SKIP (HITE			NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

HWY: MAIN ST

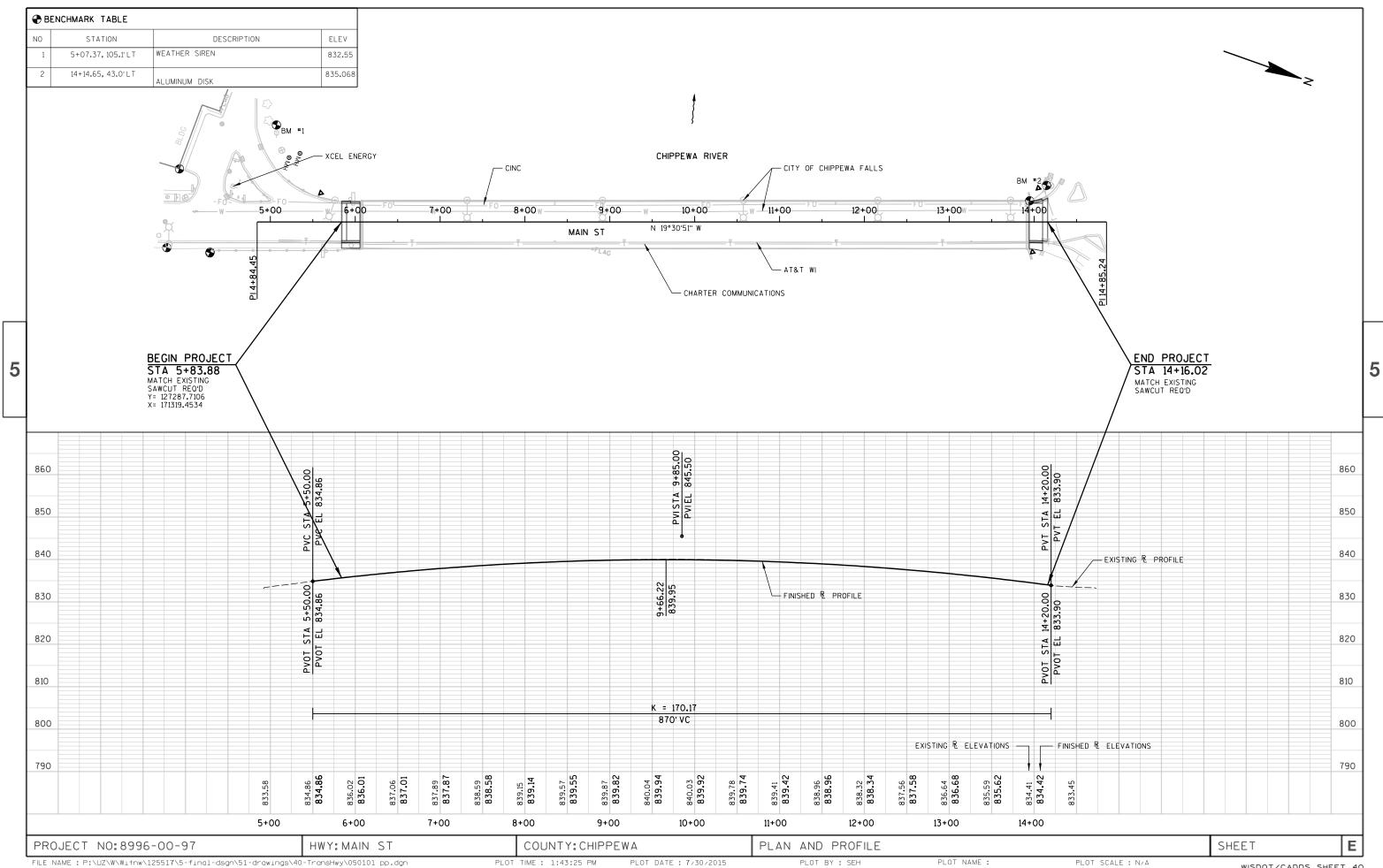
PROJECT NO:8996-00-97

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

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SHEET

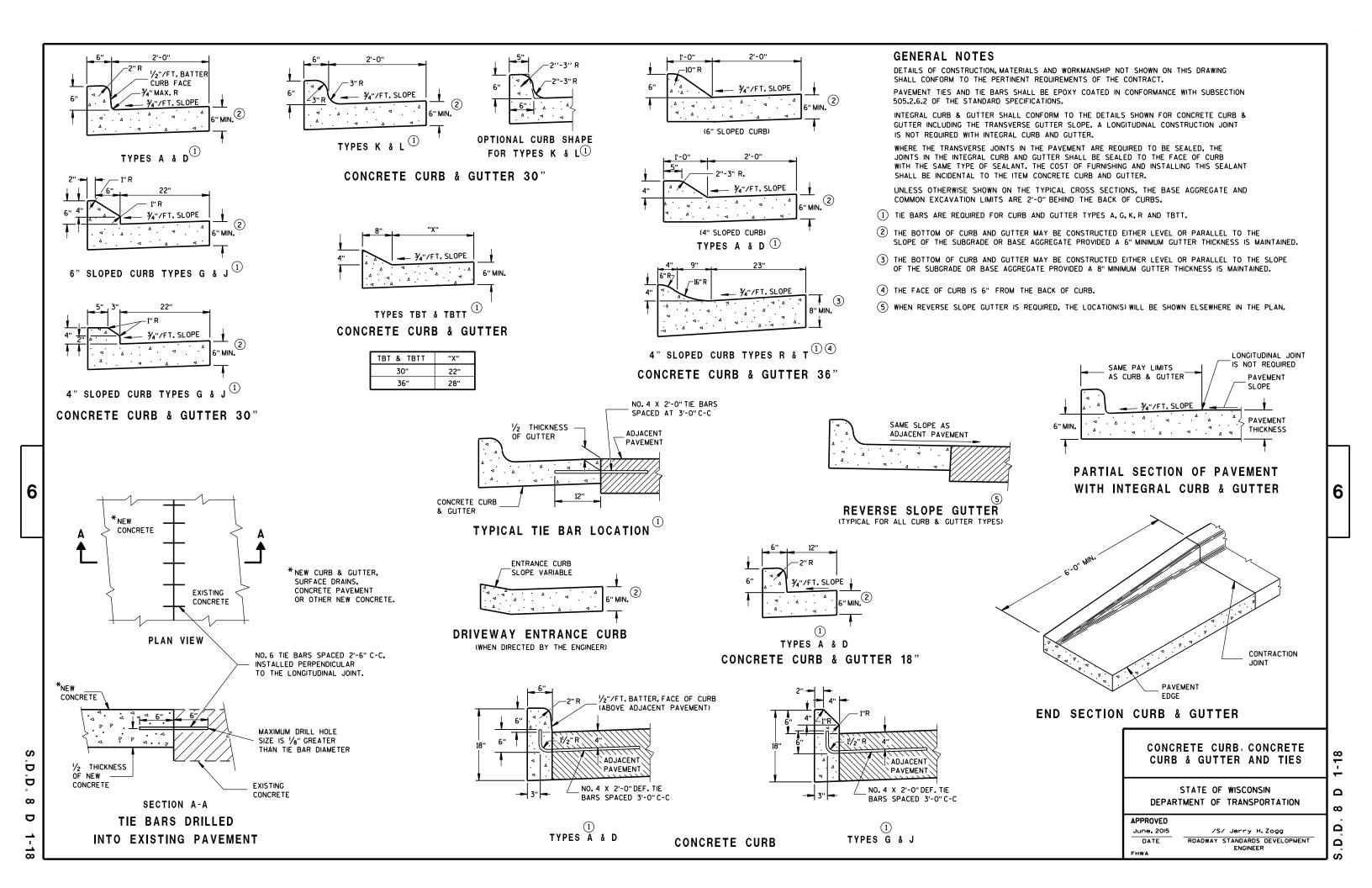


Standard Detail Drawing List

CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES INLET PROTECTION TYPE A, B, C AND D
CONCRETE BRIDGE APPROACH
STRUCTURAL APPROACH SLAB AND CONCRETE BRIDGE APPROACH
BARRICADES AND SIGNS FOR MAINLINE CLOSURES
BARRICADES AND SIGNS FOR MAINLINE CLOSURES
PAVEMENT MARKING (MAINLINE)

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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

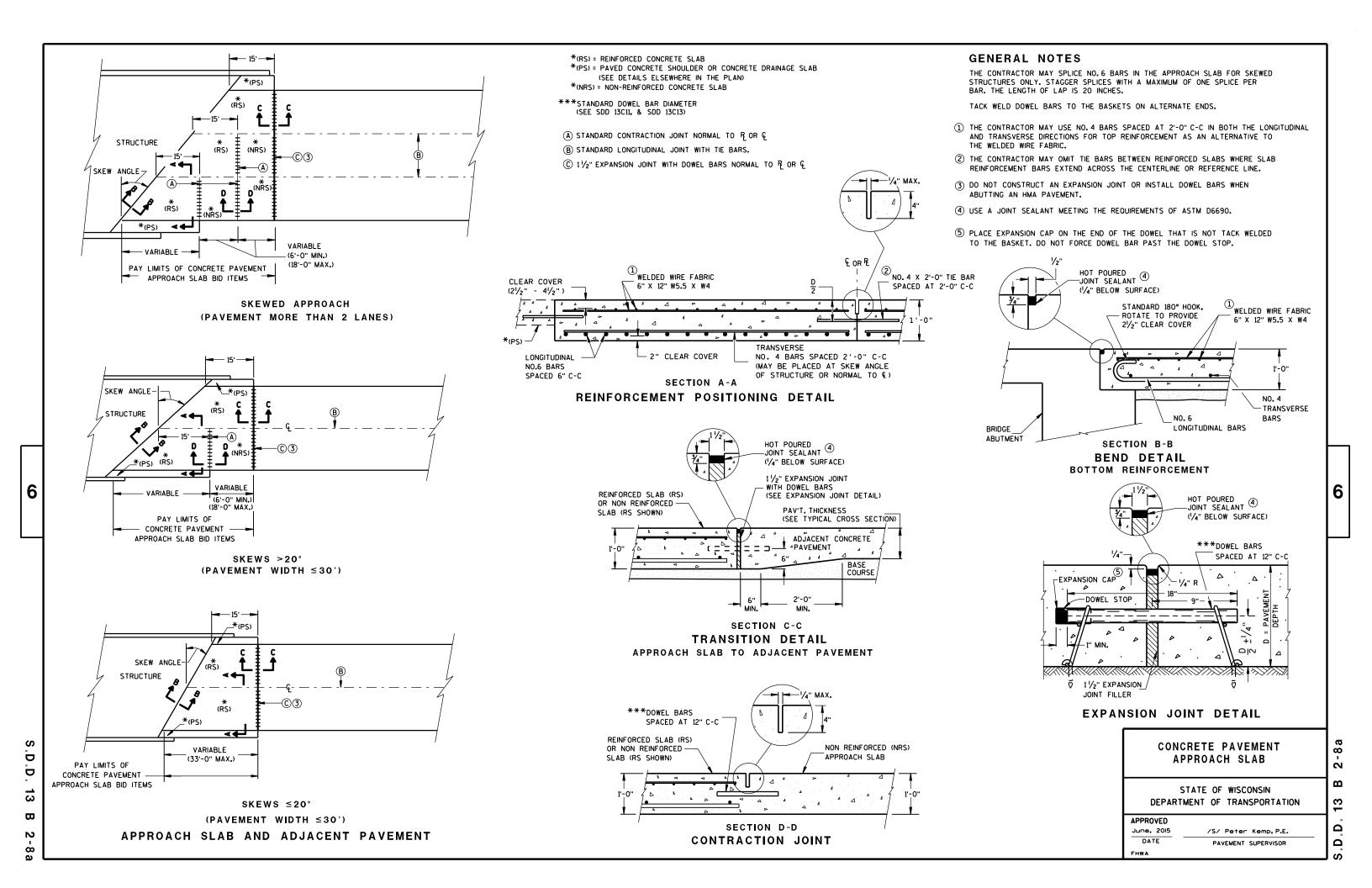
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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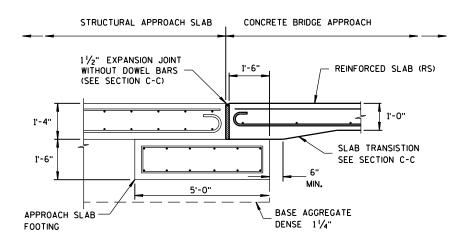


GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

- 1 SEE BRIDGE PLAN.
- (2) CONFORM TO SHEET 13 B 2(A) FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS.
- 3 DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- © 11/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO P OR &
- D 1 1/2" EXPANSION JOINT (NO DOWELS)

BRIDGE APPROACHES



SECTION E-E

FOOTING DETAIL

STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
June, 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPERVISOR

D.D. 13 B 2-8b

6

.D.D. 13

8

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BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

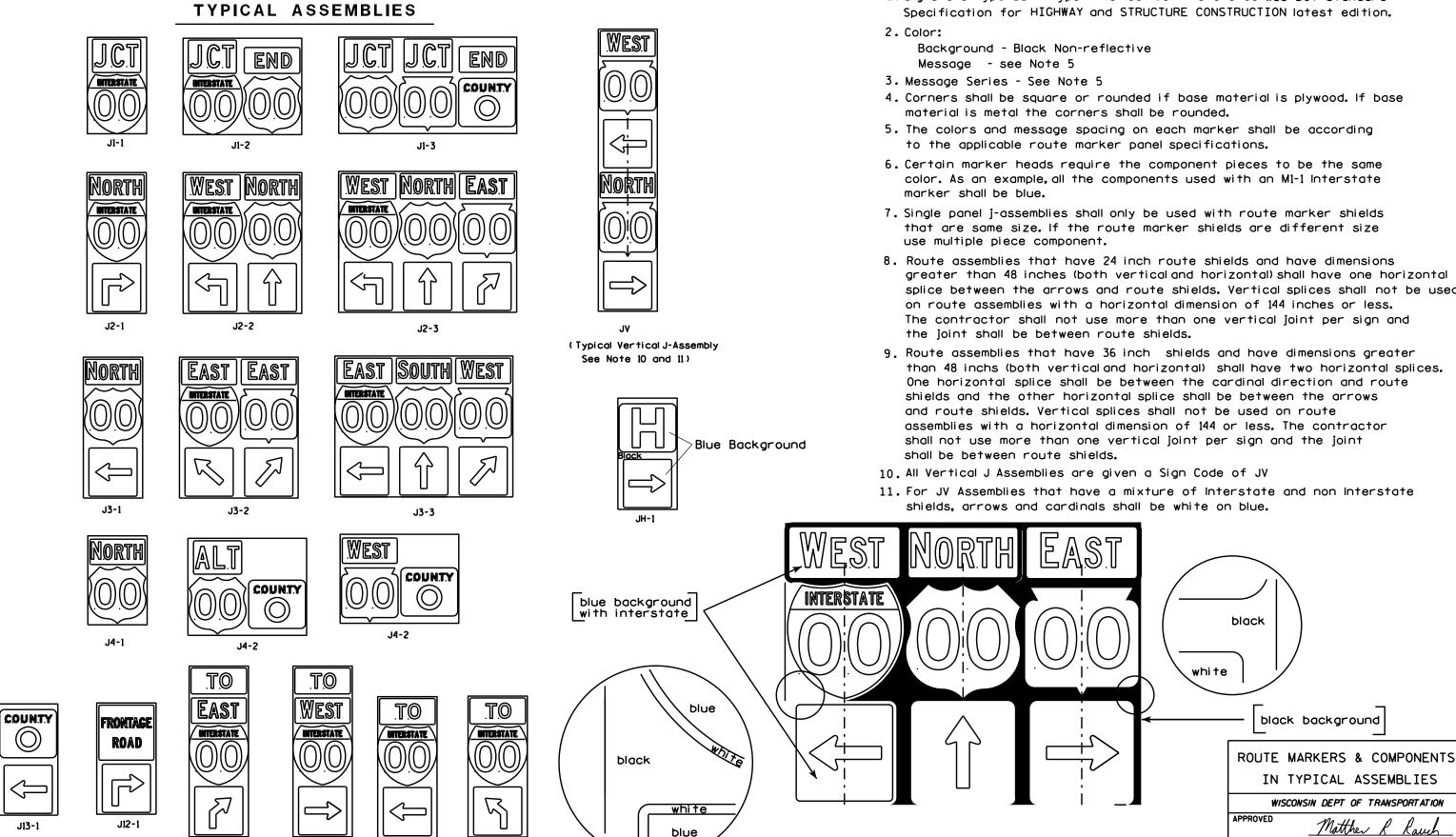
2

Δ



1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater 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.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) D^{-1} Outside Edae of Gravel

White Edgeline Location

** 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.

HWY:

* 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.

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) 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 $5' - 3'' (\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

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

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) 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 (A2-1S) 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 signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ********\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

2' Min - 4' Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED		
	L	E	
* * *	Greater than 48" Less than 60"	12"	
	60" to 120"	L/5	l

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

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)					
L	E				
168" and greater	12"				

POST EMBEDMENT DEPTH

of Gravel

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

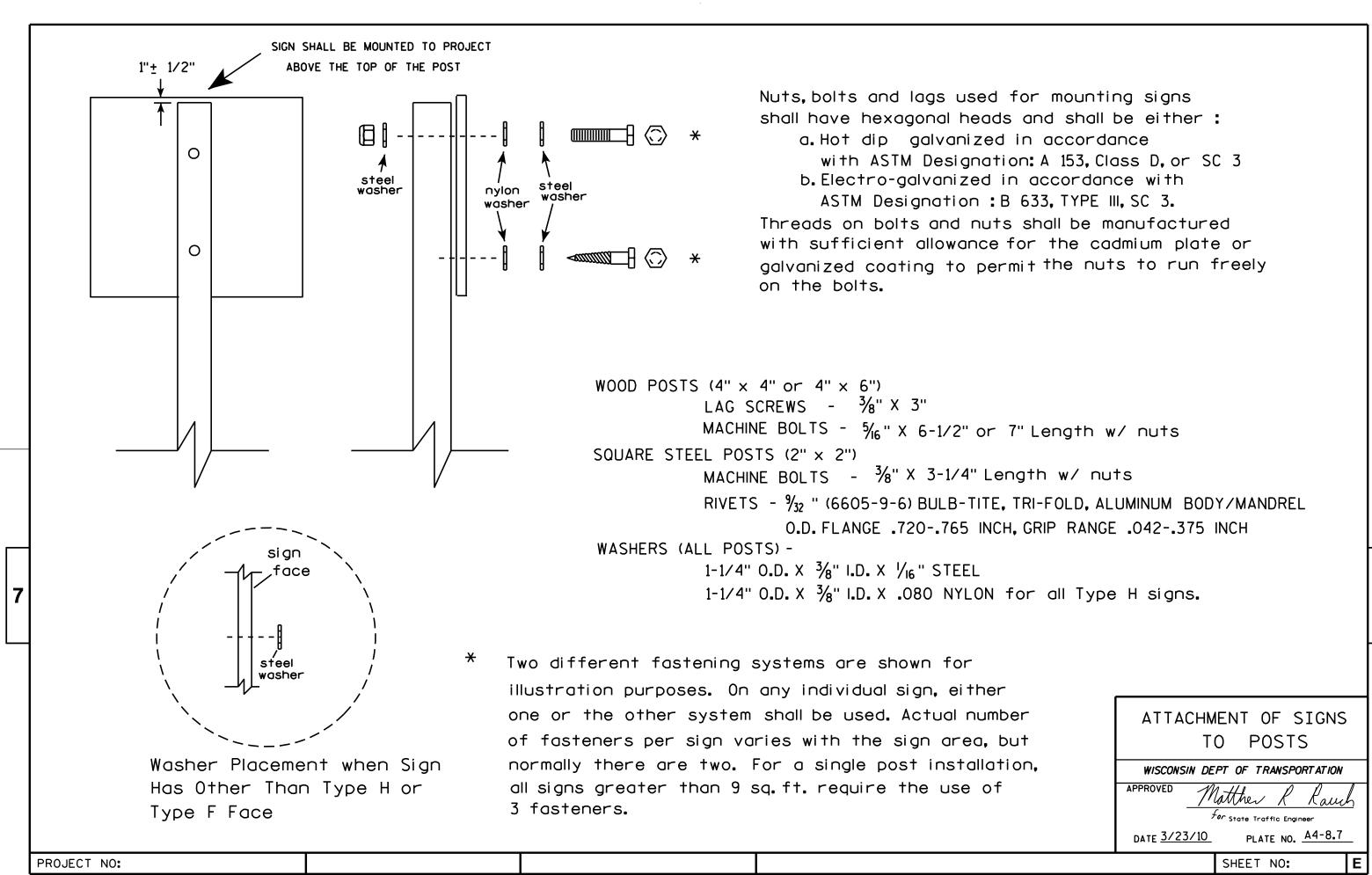
PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15





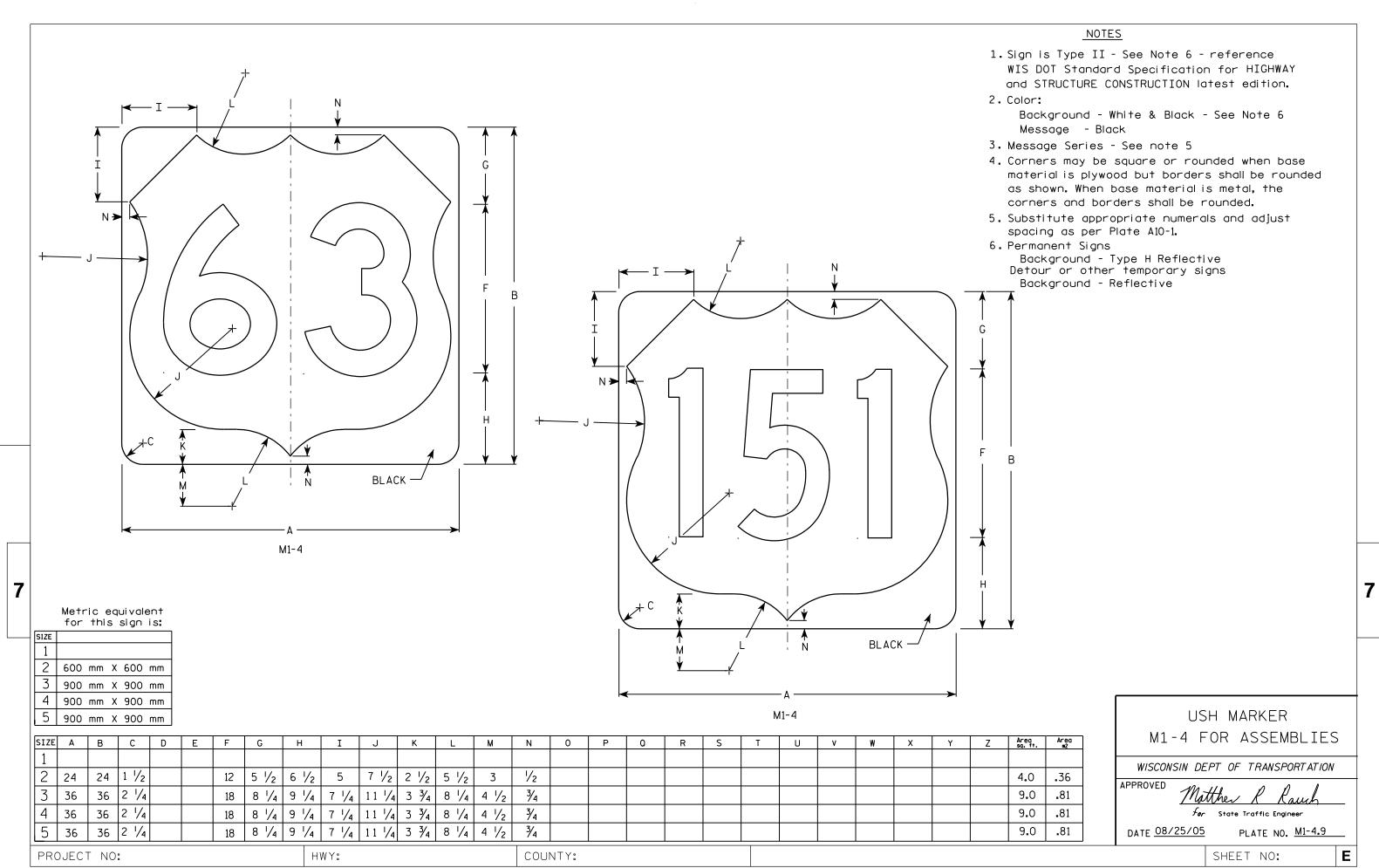
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer





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

NOTES

- 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 BLACK
Metric equivalent for this sign is:	>

HWY:

SIZE 600 mm X 600 mm 900 mm X 900 mm 900 mm X 900 mm 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	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												ļ
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 ½	1	1 %	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	12 %	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	12 5/8	17 1/8	1 1/2	2 1/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	. 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M16.DGN

PLOT DATE: 13-OCT-2005 14:55

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE : 6.715871:1.000000

WISDOT/CADDS SHEET 42

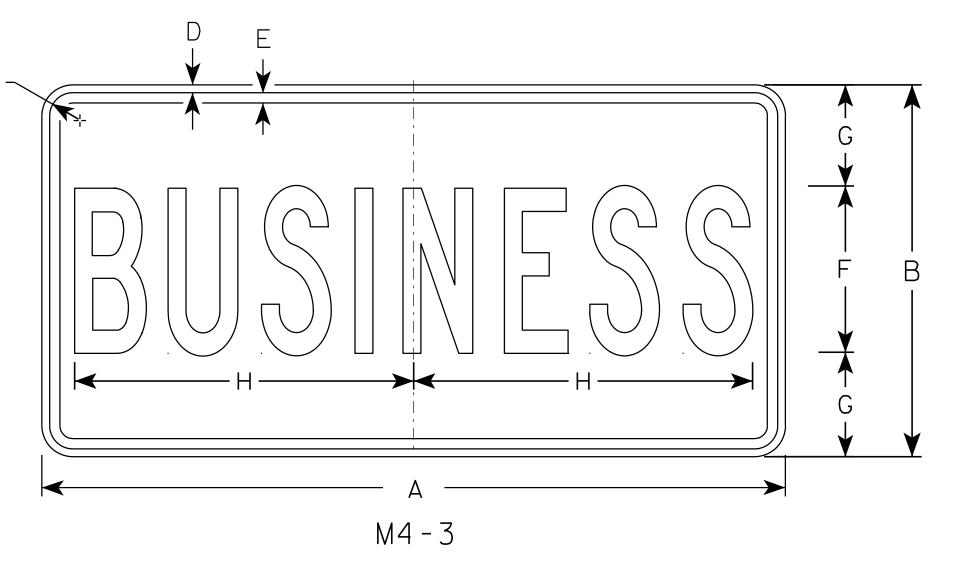


- Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White - See Note 5 Message - Black

- 3. Message 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.
- 5. Permanent Signs

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



SIZE A B C D E F G H I J K L M N O P O R S T U V W X Y Z 1																											
	SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Y	Z	Areo sq. ft
	1																										
3 36 18 1 ½ 3% ½ 8 5 16 ¾ 4 1	/	24	12	1 1/8	3/8	3/8	5	3 1/2	9 %																		2.0
4	3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																		4.5
	4																										
5	5																										

COUNTY:

STANDARD SIGN M4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

VED Matther & Lauch

For State Traffic Engineer

DATE 11/10/10

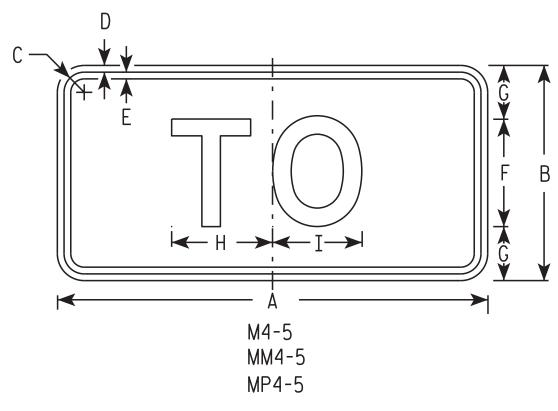
PLATE NO. M4-3.5

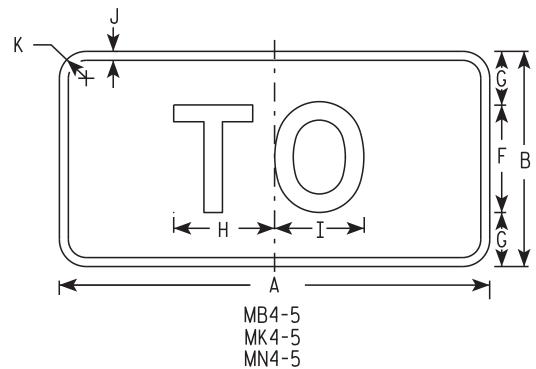
SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :





HWY:

NOTES

- 1. Sign is Type II Type H
- 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

Message - Black

MB4-5 Background - Blue

Message - White

MK4-5 Background - Green

Message - White

MM4-5 Background - White

Message - Green

MN4-5 Background - Brown

Message - White

MP4-5 Background - White

Message - Blue

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areo sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 %	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 3/8	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 %	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 %	1/2	1 1/2																4.5

COUNTY:

STANDARD SIGN

M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauh

DATE 10/15/15

5 PLATE NO. M4-5.8
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplote\M45.DGN

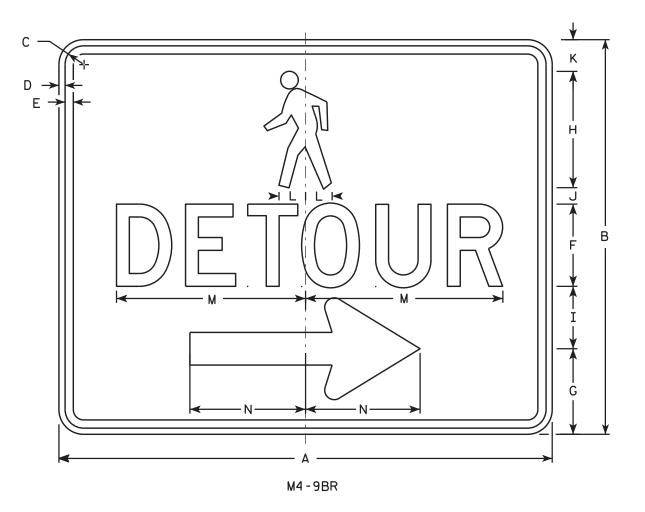
PROJECT NO:

PLOT DATE : 15-OCT-2015 13:06

PLOT BY: \$8...plotuser...\$8 PLOT NAME:

PLOT SCALE: 8.528262:1.000000

WISDOT/CADDS SHEET 42

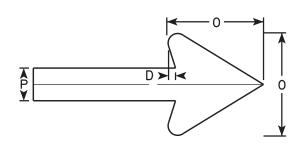


NOTES

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

Background - Orange Message - Black

- 3. Message Series 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. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

																							г г	1			l Area
SIZE	Α	В	C	D	E	F	G	Η	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 1/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

COUNTY:

STANDARD SIGN M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

For State Traffic Engineer

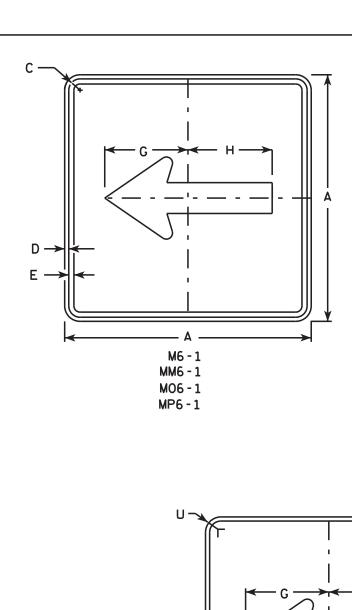
DATE 9/30/13

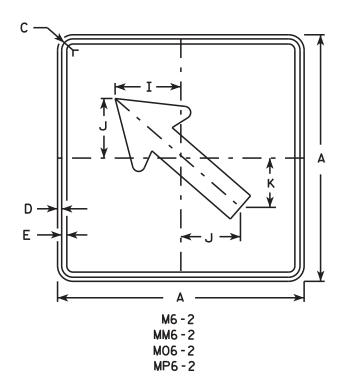
SHEET NO:

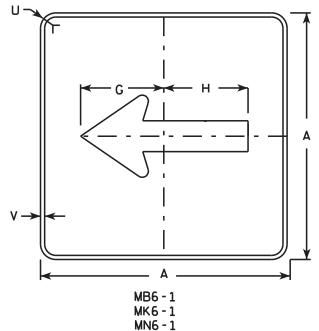
HWY:

PROJECT NO:

PLOT BY: mscj9h

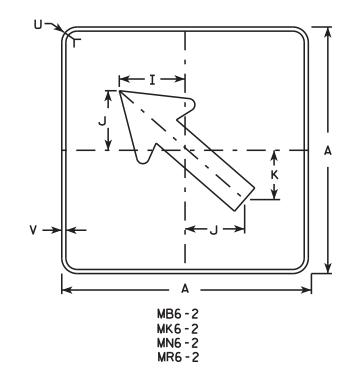






MR6-1

HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 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

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

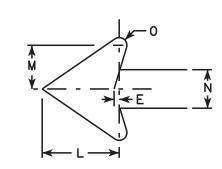
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
4	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
5	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

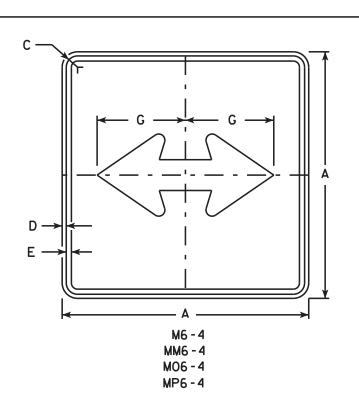
Matther & Rauh

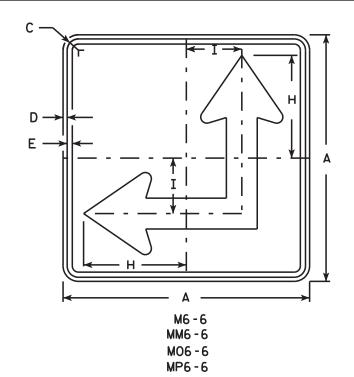
for State Traffic Engineer

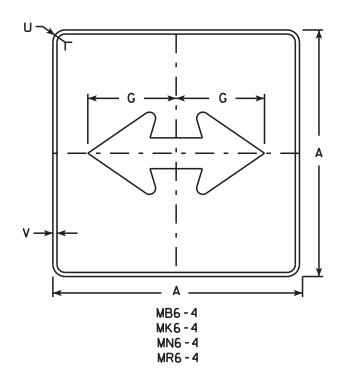
DATE 10/15/15

15 PLATE NO. M6-1.15
SHEET NO:

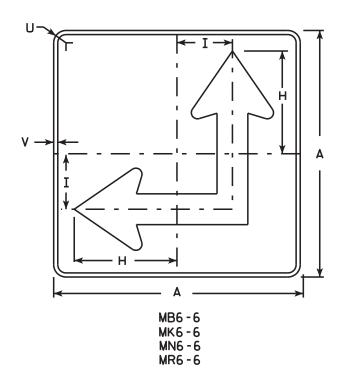
PROJECT NO:







HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 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 Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

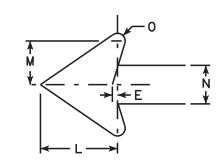
and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areo sq. ft,
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 ¾	12 1/2	6 ¾			7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 ¾			7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
5	30		1 3/8	1/2	5/8		10 ¾	12 1/2	6 ¾			7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25

COUNTY:

STANDARD SIGN M6-4 & M6-6 **SERIES**

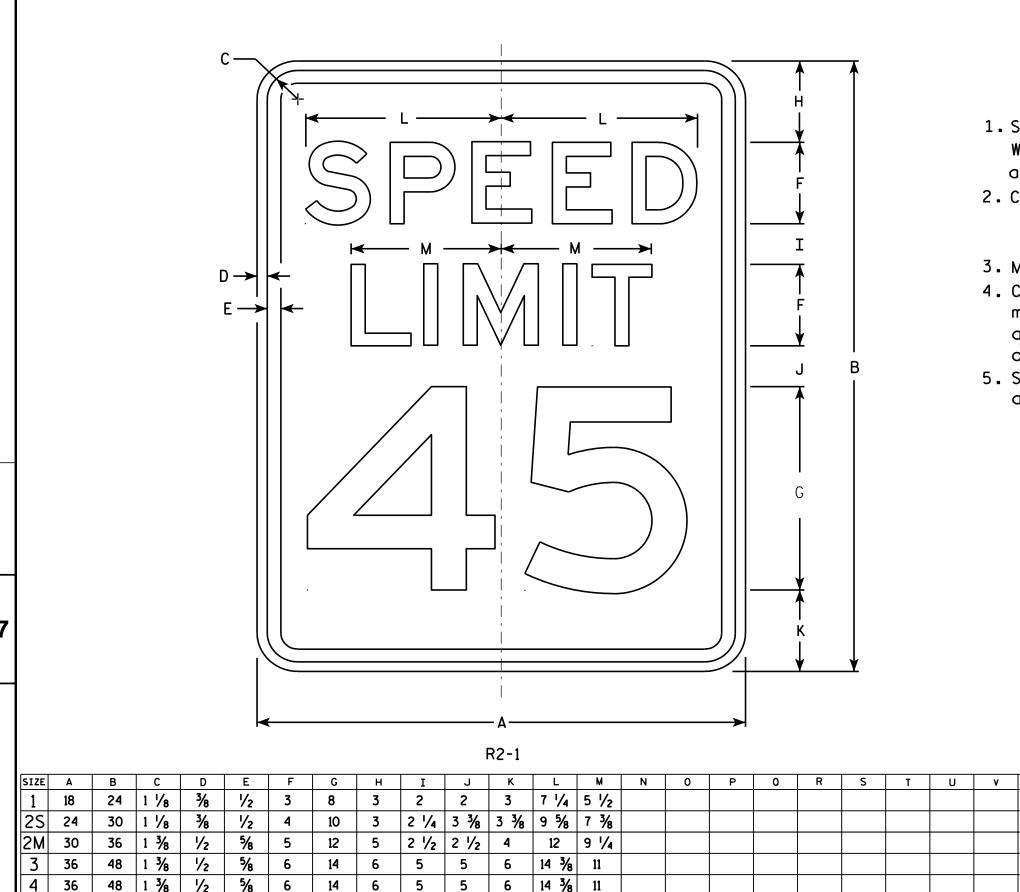
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 SHEET NO:

PROJECT NO:



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

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.
- 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 PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

60

5

48

PROJECT NO:

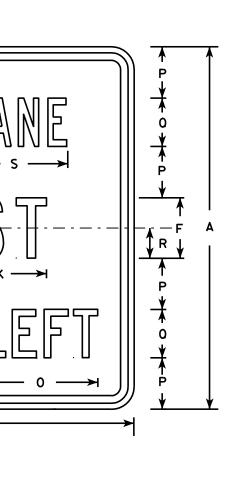
PLOT NAME :

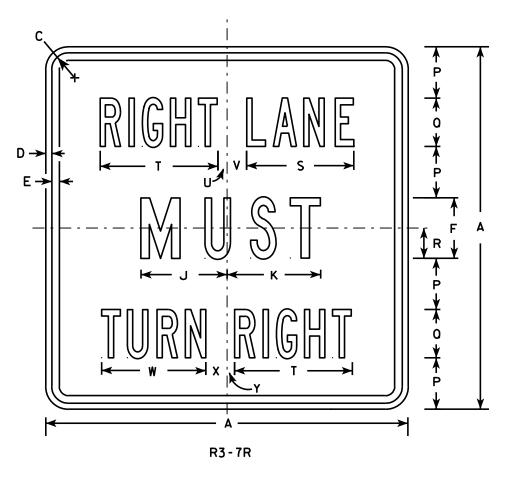
NOTES

- 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 Line 1 is Series B. Line 2 is Series C. Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
- 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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	w	X	Y	Z	Areo sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
25	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 %	2	1 1/8	8 3/4	9	13 ½	3 %	1 1/2	12 1/2	5	5	3	10 %	12	7∕8	2 1/4	10 %	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 ½	11 1/2	11 1/8	17 3/4	3 %	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 1/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

COUNTY:

STANDARD SIGN R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 3/18/2011

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R37.DGN

PROJECT NO:

R3-7L

HWY:

PLOT DATE: 18-MAR-2011 09:43

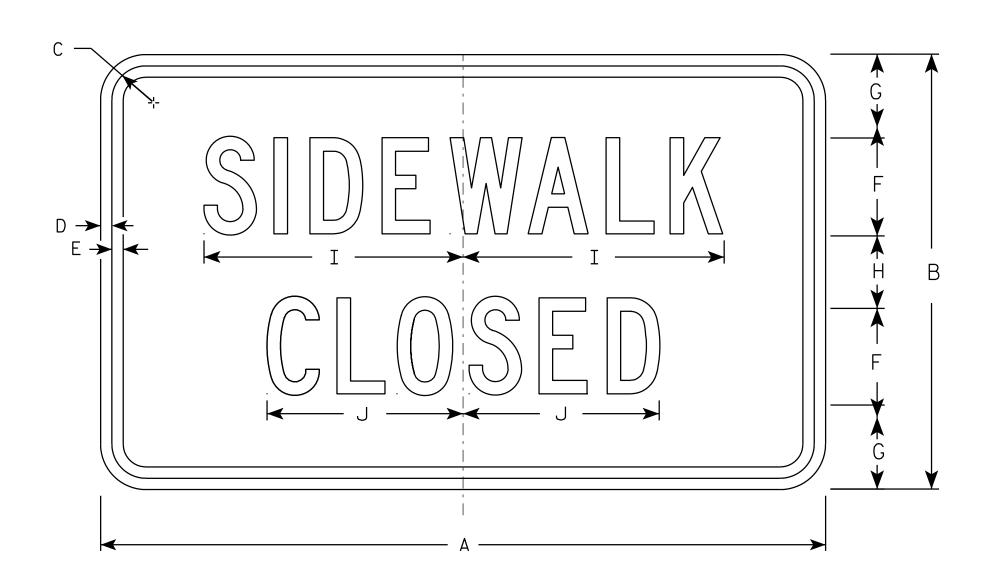
PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 7.945391:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. R3-7.3



R9-9

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 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.

SIZE A В Ε 0 S 2S 1 3/4 3 10 3/4 8 1/8 1/2 3 1/2 30 18 1/2 4 3.75 2M 1 3/4 10 3/4 8 1/8 30 3 1/2 3 3.75 3 4 5

COUNTY:

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 4/1/2011

PLATE NO. R9-9.5

SHEET NO:

PROJECT NO:

HWY:

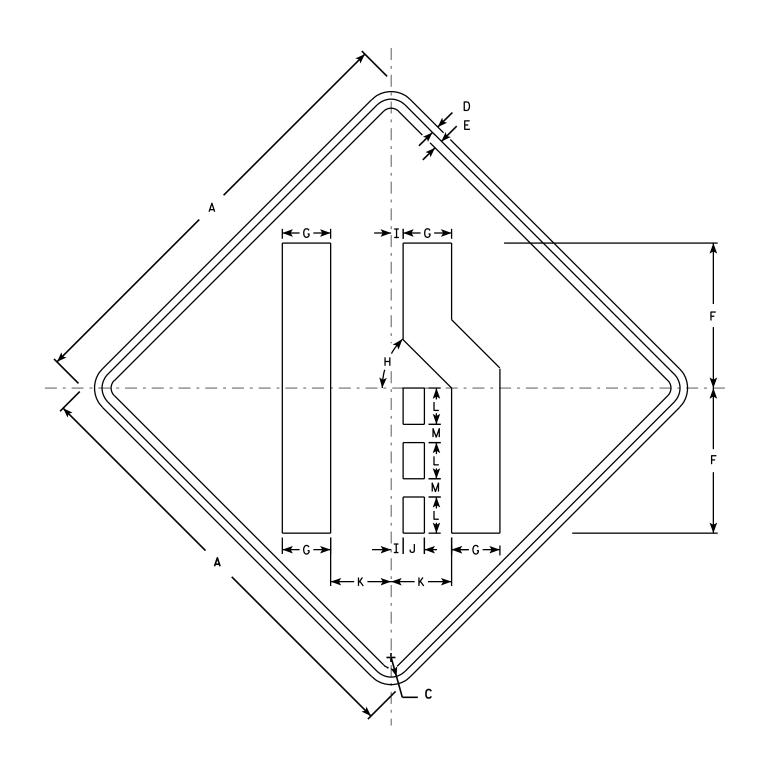
PLOT NAME :

NOTES

- 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

Z	Y	Х	W	٧	U	T	S	R	0	Р	0	N	M	L	K	J	I	Н	G	F	E	D	С	В	Α	SIZE
													1 1/4	2 1/2	4 1/4	1 1/2	1 / ₈	45°	3 %	10	5/8	1/2	1 3/8		30	1
	1												1 1/2	3	5	1 3/4	1	45°	4	12	3/4	5/8	1 %		36	25
	1												1 1/2	3	5	1 3/4	1	45°	4	12	3/4	5/8	1 %		36	2M
9													1 1/2	3	5	1 3/4	1	45°	4	12	3/4	5/8	1 1/8		36	3
1													2	4	6 ¾	2 3/8	1 1/4	45°	5	16	1	3/4	2 1/4		48	4
	1												2	4	6 3/4	2 3/8	1 1/4	45°	5 3/8	16	1	3/4	2 1/4		48	5
=	=												2	4	6 3/4	2 3/8	1 1/4	45°	5 3/8	16	1	3 /4	2 1/4	NO:	48 JECT	

STANDARD SIGN W4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/12/13

PLATE NO. W4-2.14 SHEET NO:

For State Traffic Engineer

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W42.DGN

PLOT DATE: 12-MAR-2013 11:09

PLOT BY: mscsja

C/L MAIN STREET-

57'-6"

48'-0" BETWEEN GUTTERS

DESIGN DATA CONCRETE OVERLAY (B) LONGITUDINAL CONSTRUCTION JOINT IN OVERLAY. 24'-0" 24'-0" 8'-0" 1'-6" LIVE LOAD: © SEE SPECIFICATIONS FOR THE USE OF TRANSVERSE DESIGN RATING = HS20 INVENTORY RATING = HS19 7'-0" CONSTRUCTION JOINTS AND POURING SEQUENCE FOR CONCRETE OVERLAYS OPERATING RATING = HS42 CONC. OVERLAY 11/2" MIN OVERLAY FROM PREPARED SURFACE, MAINTAIN EXISTING CROSS SLOPE WISCONSIN STANDARD PERMIT VEHICLE LOAD = 190 KIPS DFD = REPLACE FLOOR DRAIN GRATE TYPE D, WEST SIDE. <u>WEST</u> EAST SIDE (4 REQUIRED) AS APPROVED BY THE ENGINEER. SIDE ULTIMATE DESIGN STRESSES: SEE SHEET 8 FOR DETAILS. - GUTTER GUTTER --EXIST 7" SLAB CONCRETE MASONRY f'c = 4,000 psi EFD = REPLACE FLOOR DRAIN GRATE TYPE E, EAST SIDE. HIGH STRENGTH BAR STEEL REINFORCEMENT CROWN-CONDUIT 0.015'/FT 0.015'/FT fy = 60,000 psiGRADE 60 (4 REQUIRED) AS APPROVED BY THE ENGINEER. SEE SHEET 9 FOR DETAILS. © CONCRETE GIRDER REPAIR AT ENDS OF GIRDERS AT SOUTH ABUTMENT AT GENERAL LOCATIONS SHOWN. - TELE DUCTS SEE SHEET 2 FOR "GENERAL NOTES" AND "QUANTITIES". -REMOVE DECK TO INCLUDED IN ITEM "CONCRETE SURFACE REPAIR". -EXISTING 70" CHIPPEWA FALLS SCHOOL "WATERMAIN SOUND CONCRETE PRESTRESSED DISTRICT FIBER OPTIC ②CLEANING AND PAINTING OF ALL THE EXPANSION BEARINGS AT THE ABUTMENTS (16 TOTAL) IS A PART OF THIS GIRDER, TYP CONTRACT. SEE NOTES ON SHEET 2. -1SF - SPALL BOTTOM OF GIRDER(F) ·SEE NOTE(Z) 1SF - SPALL BOTTOM OF GIRDER F −1SF - SPALL EDGE OF GIRDER(F) -1SF - SPALL EDGE OF GIRDER F 8 SPA @ $6'-4\frac{1}{2}'' = 51'-0"$ 3'-6" CROSS SECTION A-A THRU RDWY - LOOKING NORTH B-9-99 -END OF END OF DECK DECK 788'-11" CONCRETE OVERLAY END OF DECK TO END OF DECK (INCLUDES PAVING BLOCK) 131'-0" 131'-0" 131'-0" 130'-41/2" 130'-41/2' SPAN 1 SPAN 2 SPAN 3 SPAN 4 SPAN 5 SPAN 6 DETAIL B, SHEET DETAIL A, SHEET 2 CHIPPEWA RIVER Α--> ⊢FD Ū — FD ⑩ ←FD® -GUTTER LINE −crown® 7+00 8+00 4 (C) FDE $A \rightarrow$ | C/L PIER 3 | STA 10+00.00 |C/L PIER 2 |STA 8+69.00 C/L PIER 5 STA 12+62.00 END OF DECKI JC/L PIER 1 ISTA 7+38.00 C/L PIER 4 STA 6+05.54 APPROACH SLAB & SIDEWALK APPROACH SLAB & SIDEWALK PROTECT MH AND UTILITY -PROTECT 2" DIA TEL CONDUIT PIER 1 PIER 2 PIER 3 PIER 4 PIER 5 N ABUT S ABUT PLAN NO. DATE REVISION BY B - 9 - 99JEFFREY A JEFFREY A DE-(6-SPAN - 70" PRESTRESSED CONCRETE GIRDER BRIDGE) SEH NOTE: STATIONING MAY VARY BASED ON EXACT LOCATION OF BRIDGE PROPOSED ALIGNMENT SHORT ELLIOTT HENDRICKSON INC. ■☐ APPROACH SLAB DETAILED IN ROADWAY PLANS. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SDR 09/30/15 ACCEPTED William C. CHIEF STRUCTURES DESIGN ENGINEER DATE TRAFFIC DATA LIST OF DRAWINGS B-9-99 STRUCTURE **BENCHMARK** ADT (2018) CONCRETE OVERLAY = 7700 CONCRETE OVERLAY CONTINUED ADT (2038) = 9000 MAIN STREET OVER CHIPPEWA RIVER DECK REPAIR DHV = 13 LOCATION DESCRIPTION ELEV END BLOCK SECTIONS SONAL = 58/42 % COUNTY TOWN/CITY/VILLAGE-CHIPPEWA FALLS EXPANSION DEVICE CHIPPEWA 5+07.37, 105.1'L7 832.55 = 4.9 % COVER PLATE DETAILS DESIGN SPEC. REHABILITATION N/A DESIGN SPEED = 25 MPH FLOOR DRAIN GRATE DETAILS (TYPE D) FLOOR DRAIN GRATE DETAILS (TYPE E) 14+14.65, 43.0'LT ALUMINUM DISK 835.068 DESIGNED DESIGN DESIGN DRAWN DLF PLANS CK'D. JAJ SHEET 1 OF 8 CONCRETE SEE ROADWAY DRAWINGS FOR STATIONING AND PROFILE GRADE ELEVATIONS SEH CONTACT: GREG WEYANDT, PE, 715.720.6266 OVERLAY

LEGEND

WISDOT BRIDGE OFFICE CONTACT: BILL DREHER, PE, 608.266.8489

ANOT USED

STATE PROJECT NUMBER

8996-00-97

DRAWING SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL AND THE 1993 REHABILITATION STRUCTURE PLANS.

SEE ROADWAY DRAWINGS FOR EXISTING AND PROPOSED UTILITY LOCATIONS BEYOND BRIDGE.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1-INCH DEEP SAWCUT.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF $1\frac{1}{2}$ " CLEAR.

EXISTING FLOOR DRAINS TO REMAIN IN PLACE. REMOVE TOP OF DECK IN DRAIN AREA AS DIRECTED BY THE FIELD ENGINEER TO ALLOW PLACING THE FULL DEPTH 11/2" CONCRETE OVERLAY.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-9-99".

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

‡ EXISTING BARS ARE LIKELY TO BE CORRODED AND/OR DAMAGED DURING CONCRETE REMOVAL. PRESERVE AND INCORPORATE AS MUCH REBAR AS PRACTICAL.

UNDER THE BID ITEM "MASONRY ANCHORS TYPE L NO.5 BARS", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE ENGINEERS.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICHNESS OF $1\frac{1}{2}$ " PLACED ABOVE THE DECK SURFACE AFTER CLEANING, EXPECTED AVERAGE OVERLAY THICKNESS IS 2" (OR AS GIVEN BY THE ENGINEER). IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEDED BY MORE THAN $\frac{1}{2}$ ", CONTACT THE STRUCTURES DESIGN SECTION.

VARIATIONS TO THE NEW GRADE LINE OVER $^{1}\!/_{4}$ " MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN

A MINIMUM OF 1" OF CONCRETE SHALL BE ROMOVE FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM " CLEANING DECKS".

ANY EXCAVATION TO COMPLETE THE OVERLAY OR THE PAVING BLOCK AT THE ABUTMENTS IS INCIDENTAL TO BID ITEM, "CONCRETE MASONRY OVERLAY DECKS". SEE ROADWAY DRAWINGS FOR ADDITIONAL NOTES, QUANTITIES AND DETAILS.

CLEAN ALL LOOSE MATERIAL ON THE DECK PRIOR TO OVERLAY PLACEMENT USING HIGH PRESSURE WATER OR AIR, ENSURING ALL FREE-STANDING WATER IS REMOVED PRIOR TO OVERLAY PLACEMENT, NEAT CEMENT IS REQUIRED PER 509.3.9.2 OF THE STANDARD

OPTIONAL TRANSVERSE CONST JOINTS SUBJECT TO THE APPROVAL OF THE STRUCTURES DESIGN SECTION. MULTIPLE POURS AND SEQUENCE OF POURS FOR A GIVEN STAGE MUST BE APPROVED BY THE STRUCTURES DESIGN SECTION.

PREPARATION DECKS AND FULL-DEPTH DECK REPAIR SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE ENGINEER SHALL INSPECT THE UNDERSIDE OF THE DECK AFTER DECK PREP PRIOR TO PLACEMENT OF OVERLAY, FOR AREAS OF FULL-DEPTH DECK REPAIR IF REQUIRED.

TOTAL ESTIMATED QUANTITIES - B-9-99

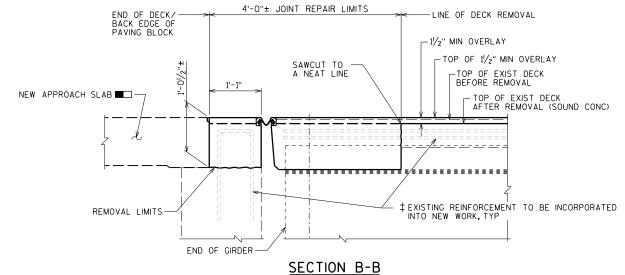
	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	203 . 0225 . S	DEBRIS CONTAINMENT B-9-99	LS	1
8	502 . 0717 . S	CRACK SEALING EPOXY	LF	3000
	502.3100	EXPANSION DEVICE B-9-99	LS	1
2	502.3200	PROTECTIVE SURFACE TREATMENT	SY	4210
	502.5005	MASONRY ANCHORS TYPE L NO.5 BARS	EACH	108
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,600
3	506.0105	STRUCTURAL STEEL CARBON	LB	550
	509.0301	PREPARATION DECKS TYPE 1	SY	70
	509.0302	PREPARATION DECKS TYPE 2	SY	60
	509.0500	CLEANING DECKS	SY	4170
	509.1000	JOINT REPAIR	SY	50
	509.1200	CURB REPAIR	LF	20
6	509.1500	CONCRETE SURFACE REPAIR	SF	10
	509.2000	FULL-DEPTH DECK REPAIR	SY	300
1	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	184
4	514.0900	ADJUSTING FLOOR DRAINS	EACH	8
(5)	SPV.0060.01	CLEANING AND PAINTING BEARINGS	EACH	18

NOTE: SEE SHEET 4 FOR SECTION C-C & D-D. APPROACH SLAB DETAILED IN ROADWAY PLANS.

GUTTER

-SAWCUT (SDWK)

COVER PLATE



C-⊳

DETAIL A

SOUTH END

C-⊳

BACK EDGE OF PAVING BLOCK

7" PAVING

1'-1" PAVING

BLOCK

6+00

SEE ROADWAY

DRAWINGS

APPROACH SLAB

END OF DECK

1/2" EXP MAT

APPROACH SLAB

PROTECT 2" DIA

1/2" EXP MAT'L AROUND MH

TEL CONDUIT

1/2" EXP MAT'L

D-D

4'-0" LIMITS OF JOINT REPAIR

N_GUTTER

-COVER PLATE

— SAWCUT

EXP DEVICE (TYP)

QUANTITY NOTES:

- (1) ITEM IS FOR DECK OVERLAY CONCRETE AND INCLUDES THE OVERHANG ON THE PAVING BLOCK AND JOINT REPAIR, AND ALL CONCRETE IN THE AREAS REMOVED AND REPLACED AT THE TYPE 1 & 2 DECK REPAIR AS RÉQUIRED. SAWCUTS FOR THESE AREAS DEFINED BY A 1-INCH DEEP SAWCUT TO A NEAT LINE.
- 2) INCLUDES THE ENTIRE TOP OF DECK AND PAVING BLOCK ON THE BRIDGE.
- (3) ITEM IS FOR FLOOR DRAIN GRATES.
- 4) ITEM IS FOR THE REPAIR OF EXISTING FLOOR DRAIN FRAME INCLUDING REMOVING GRATE, CLEANING RAISING FRAME TOP AND GRATE SUPPORT BARS AND, INSTALLING NEW GRATE.
- (5) ITEM IS FOR CLEANING AND PAINTING EXPANSION BEARINGS AT ABUTMENTS.
- (6) REPAIR OF GIRDER ENDS AT LOCATIONS IDENTIFIED AND DIRECTED BY ENGINEER IN THE FIELD.
- (7) QUANTITY IS FOR ESTIMATING PURPOSES ONLY. COORDINATE FINAL LENGTH WITH ENGINEER IN THE FIELD. TOTAL LENGTH NOT TO EXCEED PLAN QUANTITY WITHOUT APPROVAL OF THE ENGINEER, SEE GENERAL NOTES.

NO.	DATE	F	REVISION				Е	ΙΥ				
	[STATE DEPARTMENT (OF WISC OF TRAN			ION						
	STRUCTURE B-9-99 DRAWN DLF PLANS CKD. JAJ											
				DLF	F		JA	J				
	_	ONCRET	_		SHE	ET 2	OF	8				
		OVERLAY ONTINUE										

C-⊳

BACK EDGE OF PAVING BLOCK

7" PAVING

APPROACH SLAB

-END OF DECK

14+00 /-- C/L MAIN STREET

-CLEANING AND PAINTING OF THE EXPANSION BEARINGS AT THE ABUTMENTS (18 TOTAL) IS A PART OF THIS CONTRACT. SEE NOTES THIS SHEET.

PROTECT 2" DIA TEL CONDUIT

LEDGE

1'-1" PAVING

BLOCK

SEE ROADWAY

DRAWINGS

−1/2" EXP MAT'L

D- ▶

4'-0" LIMITS OF JOINT REPAIR

COVER PLATE-

SAWCUT

- BEAM C/L

SAWCUT (SDWK)

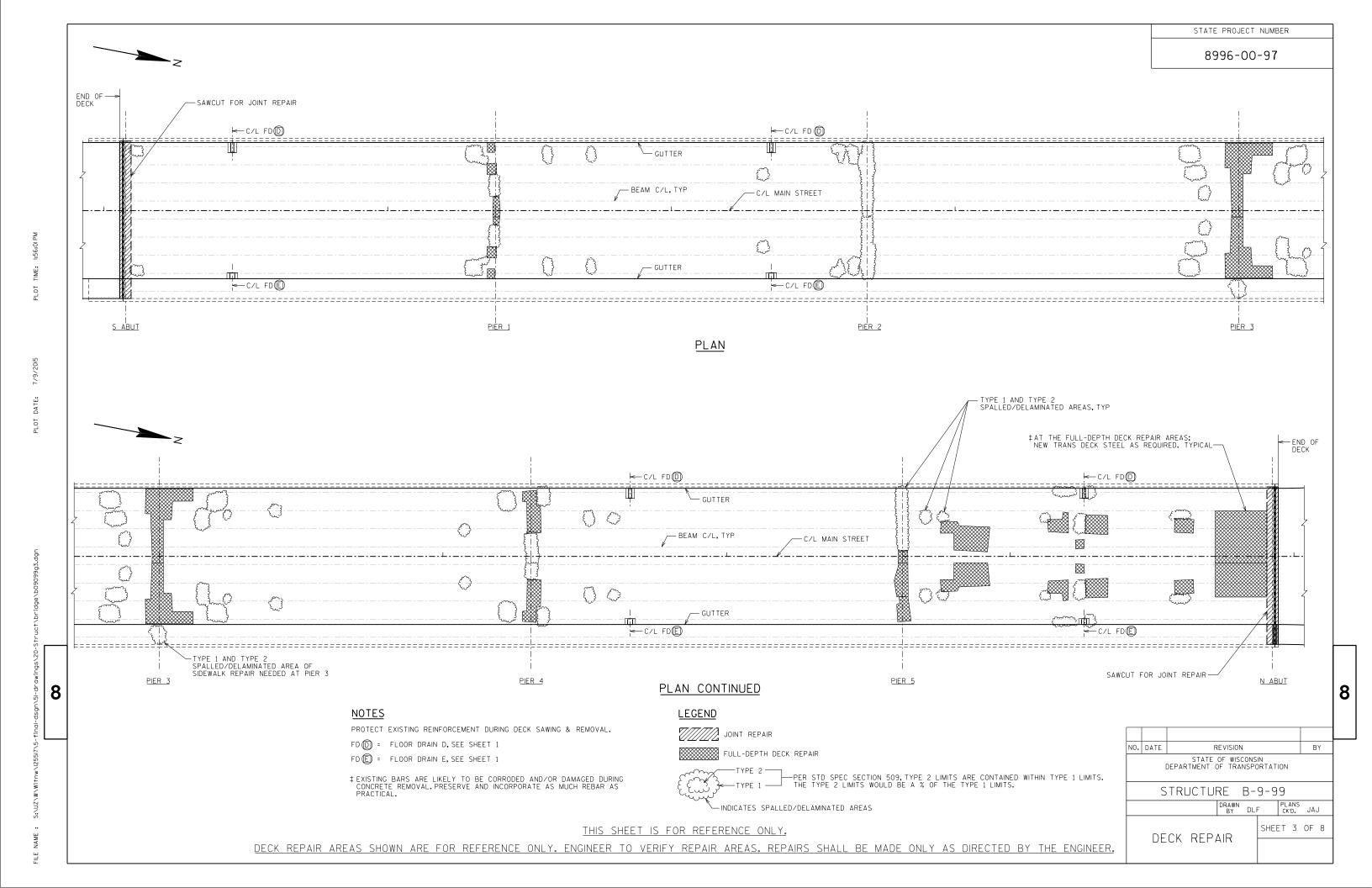
COVER PLATE-

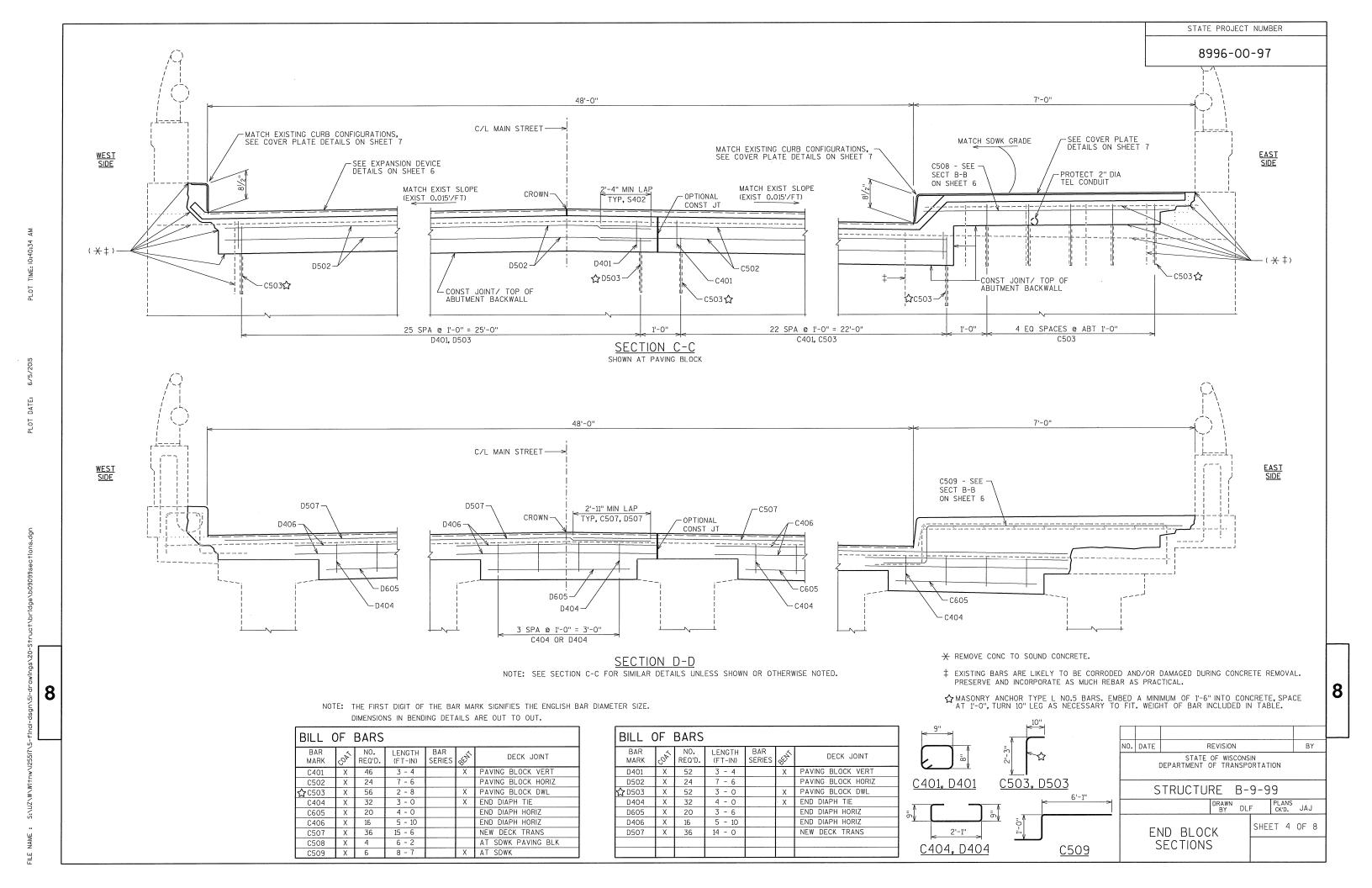
DETAIL B

NORTH END

1/2" EXP MAT'L

C.₽ D-₽

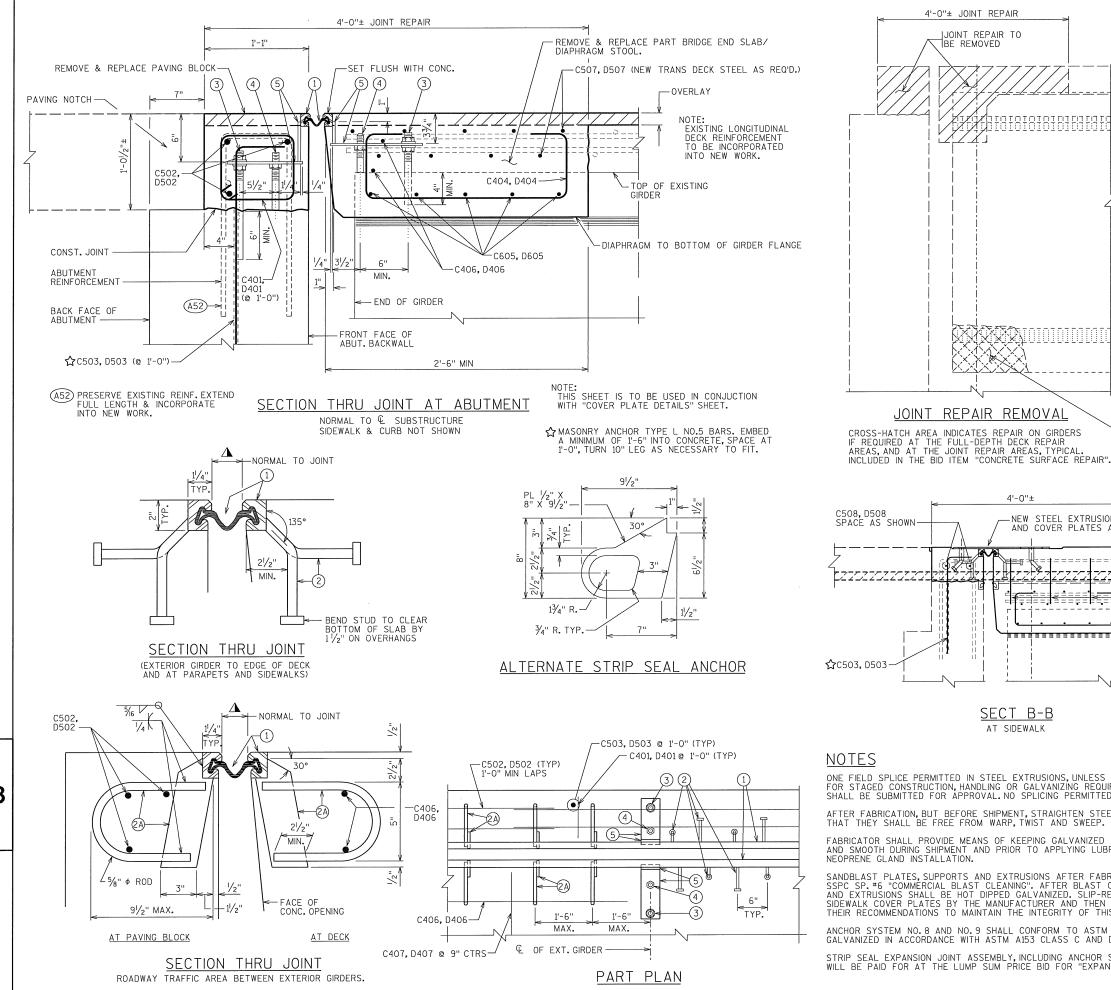


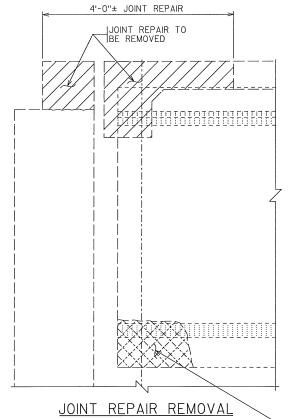












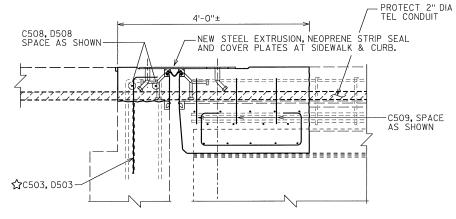
LEGEND

- (1) NEOPRENE STRIP SEAL (5" INCH) AND STEEL EXTRUSIONS.
- (2) STUDS % " ϕ X $6\,\%$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

STATE PROJECT NUMBER

8996-00-97

- $1\!\!/_2$ " THICK ANCHOR PLATE WITH $5\!\!/_8$ " ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO.1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- $\fill \ensuremath{\mathfrak{J}}\fill \fill \fill$
- (4) 3/4" THREADED ROD WITH NUT. TACK WELD NUT TO NO.5.
- (5) FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 11/2" \$\phi\$ HOLE FOR NO. 3 & 1" \$\phi\$ HOLE FOR NO. 3 \$\phi\$ HOLE FOR N FOR NO. 4.
- (6) (VACANT)
- $\frac{7}{4}$ " X 1 $\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
- (8) ¾" ♥ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- (9) 3/4" \$\phi X 21/4" GALVANIZED THREADED COUPLING.
- 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- (1) SIDEWALK & CURB COVER PLATE 3/8" X 2'-0" X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK OR CURB WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.



SECT B-B AT SIDEWALK

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

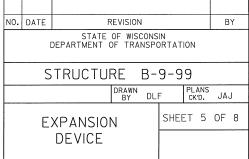
ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

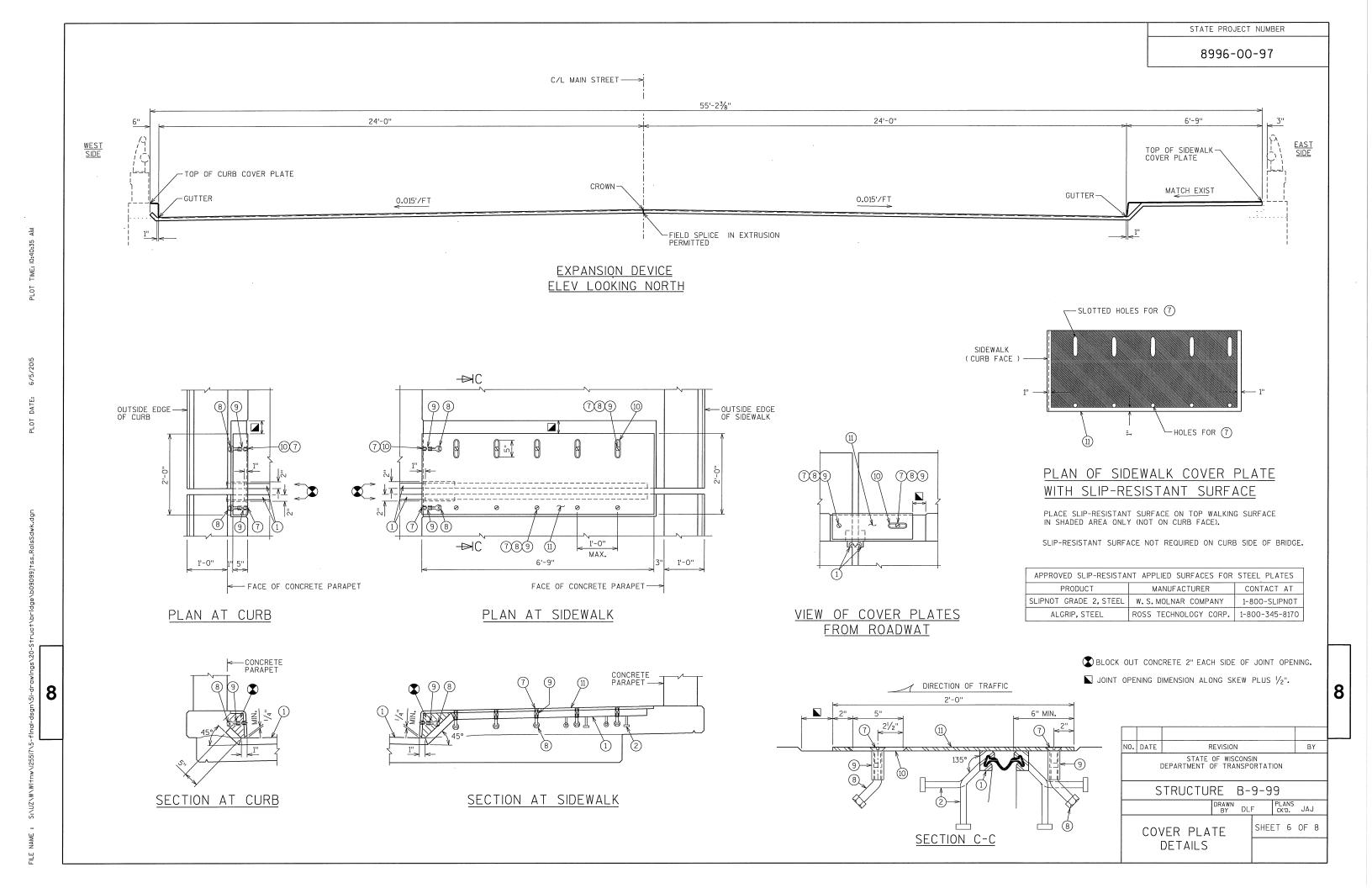
STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-9-99".

▲ TEMPERATURE TABLE

JOINT OPENING (NORMAL TO JT.)
11/2"
13/4"
21/8"
23/8"
25/8"
21/8"
31/4"
31/2"
3¾"

A SMALL JOINT OPENING DUE TO A HIGH TEMPERATURE AT TIME OF CONSTRUCTION MAY REQUIRE NEOPRENE STRIP SEAL INSTALLATION INTO STEEL EXTRUSIONS PRIOR TO SETTING THE EXPANSION JOINT.

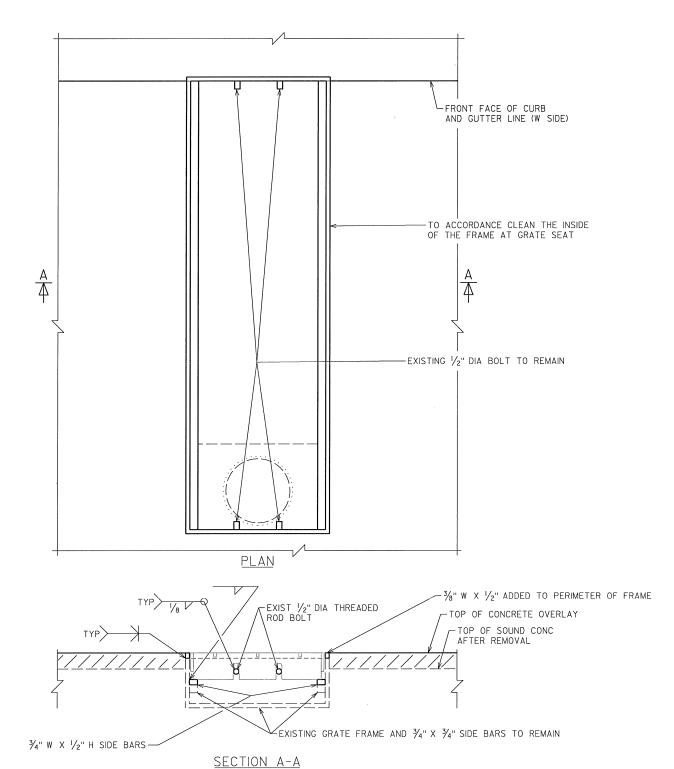




2 SPA @ 4" CTRS 1/2" X 1/4" or 0.083 SQ IN MIN. -BAR 1¾" X 1/4" WELD TO 21/2" X 3/6" 1'-01/2" ** _BAR 21/2" X 3/6" % " SLOTTED HOLES FOR 1/2" DIA BOLTS

GRATE DETAIL

** GRATE DIMENSIONS ARE BASED ON THE ORIGINAL AND 1993 REHABILITAION STRUCTURE PLANS. THESE NEW GRATES ARE INTENDED TO REPLACE EXISTING GRATES IN LIKE KIND. VERIFY GRATE & FRAME DIMENSIONS.



EXISTING FLOOR DRAIN TYPE D

NOTES

ALL GRATE MATERIAL SHALL BE ASTM A36 STEEL.

GRATE SHALL BE HOT DIP GALVANIZED.

WELDS SHALL CONFORM TO SECTION 506.3.19.2/3 OF THE STD. SPECS.

THE CONTRACTOR MAY PROPOSE AN ALTERNATE GRATE. THE DETAILS SHALL BE SUBMITTED AND SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR AND FABRICATOR SHALL TAKE STEPS TO PREVENT DAMAGE, WARPING AND TWISTING OF THE GRATE IN SHIPPING.

ΝΟ.	DATE	REVISION				BY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-9-99									
DRAWN BY DLF CK'D.						JAJ			
FLOOR DRAIN GRATE DETAILS (TYPE D)					ET 7	0F 8	3		

8

STATE PROJECT NUMBER

8996-00-97

CROSS BAR

1/2" X 1/4" OF

O.083 SO IN MIN.

BAR 2" X 1/4" WELD

TO 21/2" X 1/6"

TOP

BAR 21/2" X 1/6"

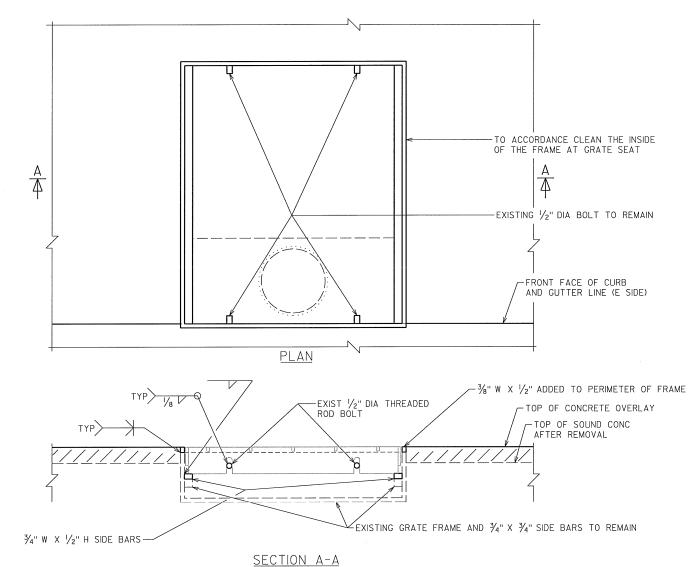
GRATE DETAIL

(TYPE E)

4 SPA @ 4" CTRS

** GRATE DIMENSIONS ARE BASED ON THE ORIGINAL AND 1993 REHABILITAION STRUCTURE PLANS. THESE NEW GRATES ARE INTENDED TO REPLACE EXISTING GRATES IN LIKE KIND. VERIFY GRATE & FRAME DIMENSIONS.

(4) NEW



EXISTING FLOOR DRAIN TYPE E

NOTES

ALL GRATE MATERIAL SHALL BE ASTM A36 STEEL.

GRATE SHALL BE HOT DIP GALVANIZED.

WELDS SHALL CONFORM TO SECTION 506.3.19.2/3 OF THE STD. SPECS.

THE CONTRACTOR MAY PROPOSE AN ALTERNATE GRATE. THE DETAILS SHALL BE SUBMITTED AND SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR AND FABRICATOR SHALL TAKE STEPS TO PREVENT DAMAGE, WARPING AND TWISTING OF THE GRATE IN SHIPPING.

NO.	DATE	F	BY						
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-9-99									
			DRAWN BY DI	_F	PLANS CK'D.	JAJ			
	GRA	OOR DRA TE DETA TYPE E)	SHE	ET 8	OF 8				



Wisconsin Department of Transportation

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