### March 09, 2021

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 Farthwork Data-
Section No.	9	Cross Sections-

TOTAL SHEETS =

**STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION** 

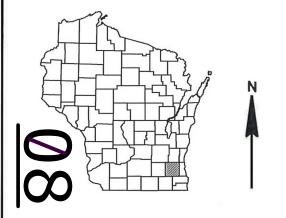
PLAN OF PROPOSED IMPROVEMENT

### **PRAIRIE AVENUE**

**BRIDGE OVER FOX RIVER B-67-0177** 

LOCAL STREET **WAUKESHA COUNTY** 

> STATE PROJECT NUMBER 2718-20-70



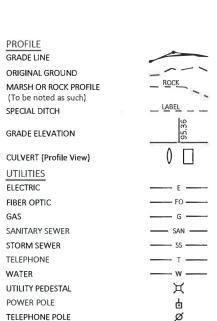
#### DESIGN DESIGNATION

A.A.D.T.	2018	=	9,800	
A.A.D.T.		=	N/A	
D.H.V.		=	1,143	
D.D.		=	59/41	
T.		=	N/A	
<b>DESIGN SPEED</b>		=	30 MPH	
ESALS		=	N/A	

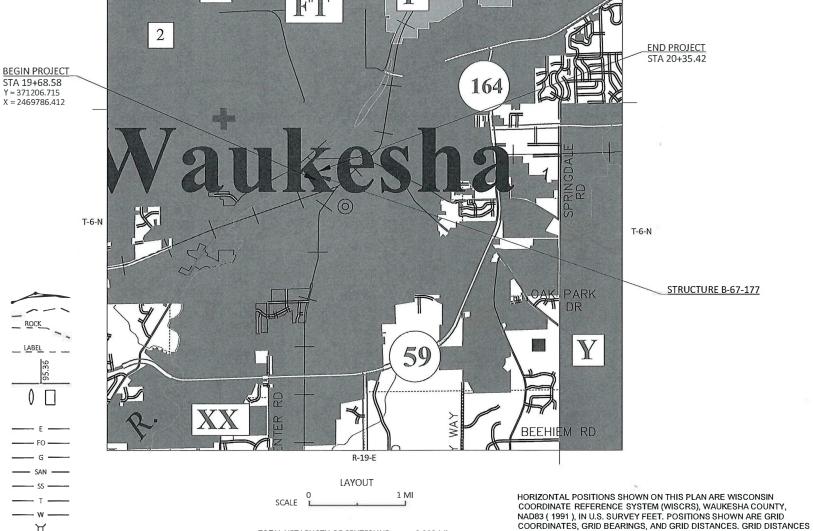
#### CONVENTIONAL SYMBOLS

CONVENTIONAL STIVIDOES
PLAN
CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE
SLOPE INTERCEPT
REFERENCE LINE
EXISTING CULVERT
PROPOSED CULVERT (Box or Pipe)
COMBUSTIBLE FLUIDS
MARSH AREA

WOODED OR SHRUB AREA



STA 19+68.58 Y = 371206.715 X = 2469786.412



FEDERAL PROJECT STATE PROJECT CONTRACT 2718-20-70

ACCEPTED FOR

CITY OF WAUKESHA



ORIGINAL PLANS PREPARED BY





STATE OF WISCONSIN

### **DEPARTMENT OF TRANSPORTATION**

PREPARED BY JEFF BOHEN

APPROVED FOR THE DEPARTMENT Kathleen Kramer

Date: 2021.01.04 15:12:52 -06'00'

TOTAL NET LENGTH OF CENTERLINE = 0.020 MI

ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED

TO NAVD 88 (1991). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

#### **GENERAL NOTES**

- 1. THE CITY OF WAUKESHA IS RECONSTRUCTING PRAIRIE AVENUE BETWEEN PHILIP DRIVE AND ST. PAUL AVENUE UNDER WISDOT PROJECT ID 1009-49-44 CONCURRENTLY WITH THIS PROJECT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE CITY OF WAUKESHA
- 2. THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- 3. RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES UNLESS OTHERWISE NOTED IN THE PLANS.
- 4. ADJUST TRAFFIC CONTROL DEVICE LOCATIONS TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 5. EROSION CONTROL ITEMS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS TO FIT FIELD CONDITIONS.
- 6. WATERWAYS AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.



#### PROJECT CONTACTS

WISCONSIN DNR CRAIG WEBSTER 141 NW BARSTOW STREET, ROOM 180 WAUKESHA, WI 53188 PHONE: (262) 574-2141 EMAIL: CRAIG.WEBSTER@WI.GOV

CITY OF WAUKESHA - ENGINEERING DIVISION CRAIG AUSEN 130 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 524-3589 CAUSEN@WAUKESHA-WI.GOV

#### **UTILITY CONTACTS**

WATER - WAUKESHA WATER UTILITY CHRISTOPHER WALTER PO BOX 1648 WAUKESHA, WI 53187 PHONE: (262) 521-5272

EMAIL: CWALTER@WAUKESHA-WATER.COM

STORM WATER/SANITARY SEWER - CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS CHRISTOPHER LANGEMAK 130 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 524-3598 CLANGEMAK@WAUKESHA-WI.GOV

LIGHTING - CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS JEFF HERNKE 130 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 524-3592

EMAIL: JHERNKE@WAUKESHA-WI.GOV

TELEPHONE - AT&T WISCONSIN TOM CROWLEY 2005 PEWAUKEE ROAD

WAUKESHA, WI 53188 PHONE: (262) 896-7427 TC1657@ATT.COM

FIBER OPTIC - CHARTER **NEAL LONG** 

1320 NORTH MARTIN LUTHER KIND JR DRIVE

MILWAUKEE, WI 53212 PHONE: (414) 277-4271

EMAIL: NEAL.LONG@CHARTER.COM

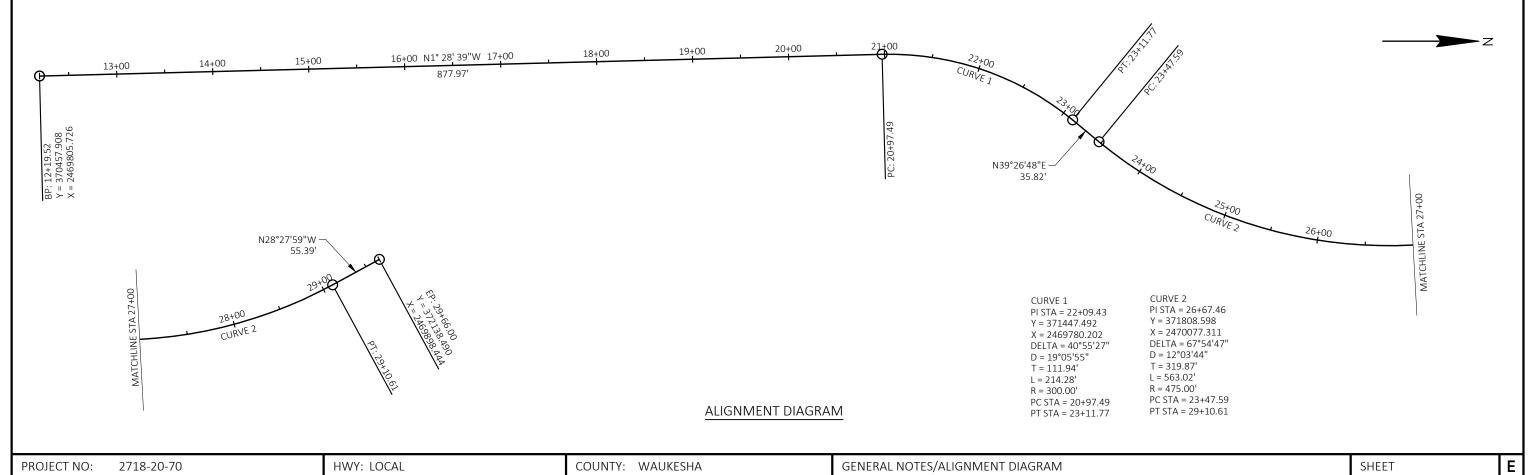
ELECTRICITY - WE ENERGIES **BRYAN STOEHR** 333 WEST EVERETT STREET, A279 MILWAUKEE, WI 53203 PHONE: (414) 944-5516 EMAIL: BRYAN.STOEHR@WE-ENERGIES.COM

GAS - WE ENERGIES JACOB SPENCER 333 WEST EVERETT STREET, A279 MILWAUKEE, WI 53203 PHONE: (414) 944-5516

EMAIL: BRYAN.STOEHR@WE-ENERGIES.COM

**ORDER OF SECTION 2 SHEETS** 

GENERAL NOTES/ALIGNMENT DIAGRAM PROJECT OVERVIEW CONTRUCTION DETAILS **EROSION CONTROL** TRAFFIC CONTROL



C:\PWWORKING\AECOM DS20 NA 2019\SARAH.ERICSON@AECOM.COM\DMS25630\020101 GN.DWG LAYOUT NAME - Plan 1 IN 100 FT

FILE NAME

PLOT BY:

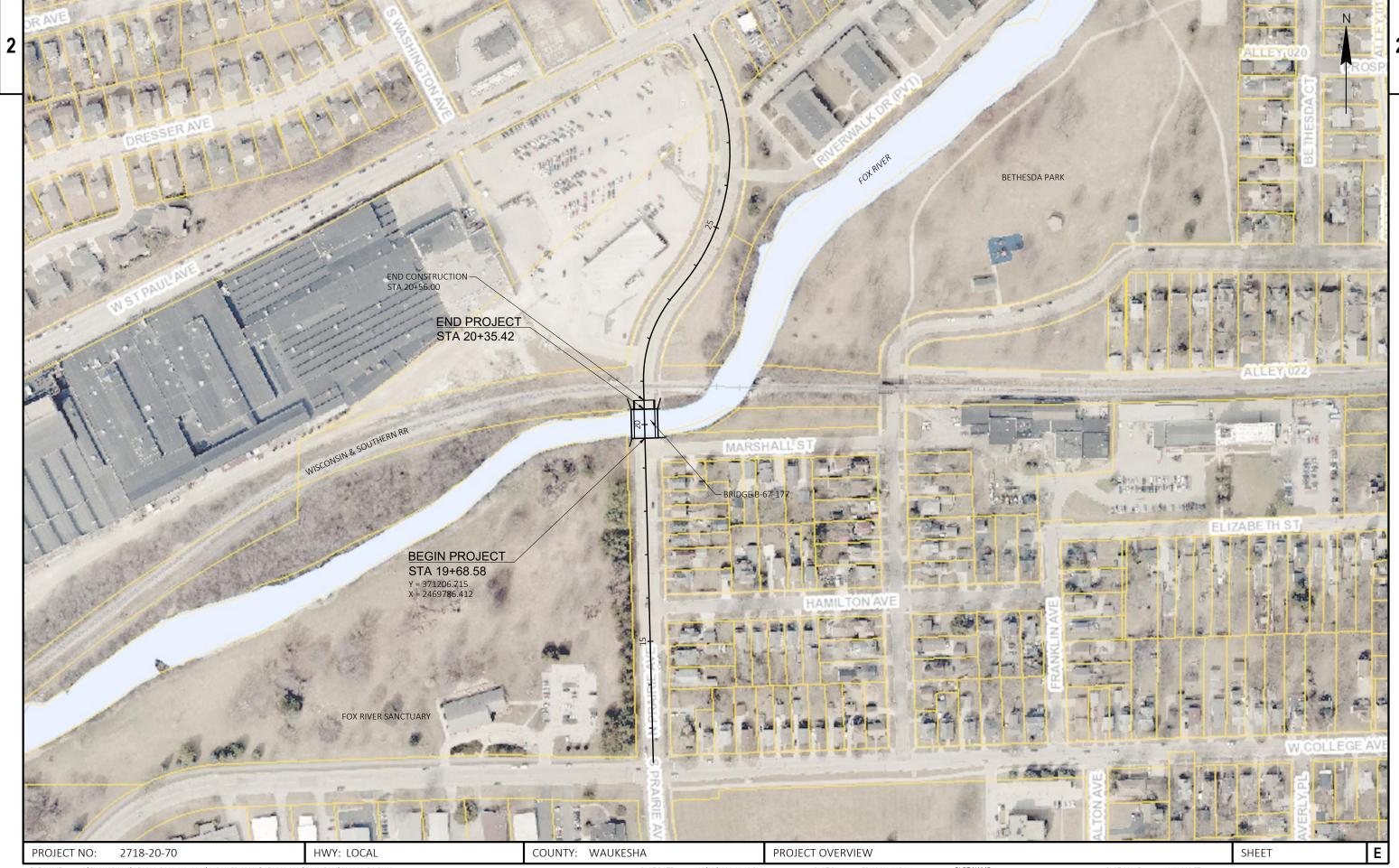
ERICSON, SARAH

PLOT NAME

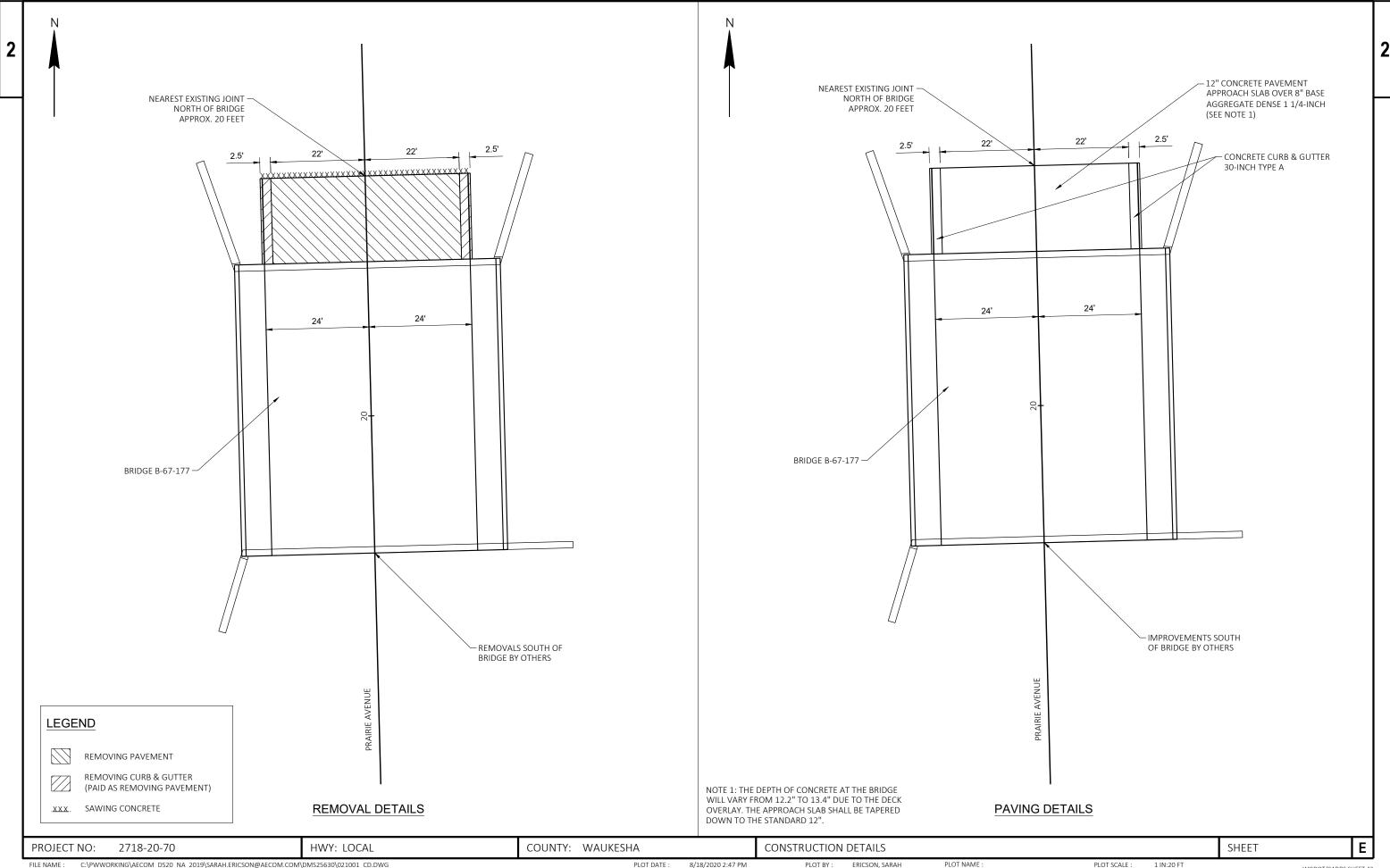
PLOT SCALE :

1 IN:100 FT

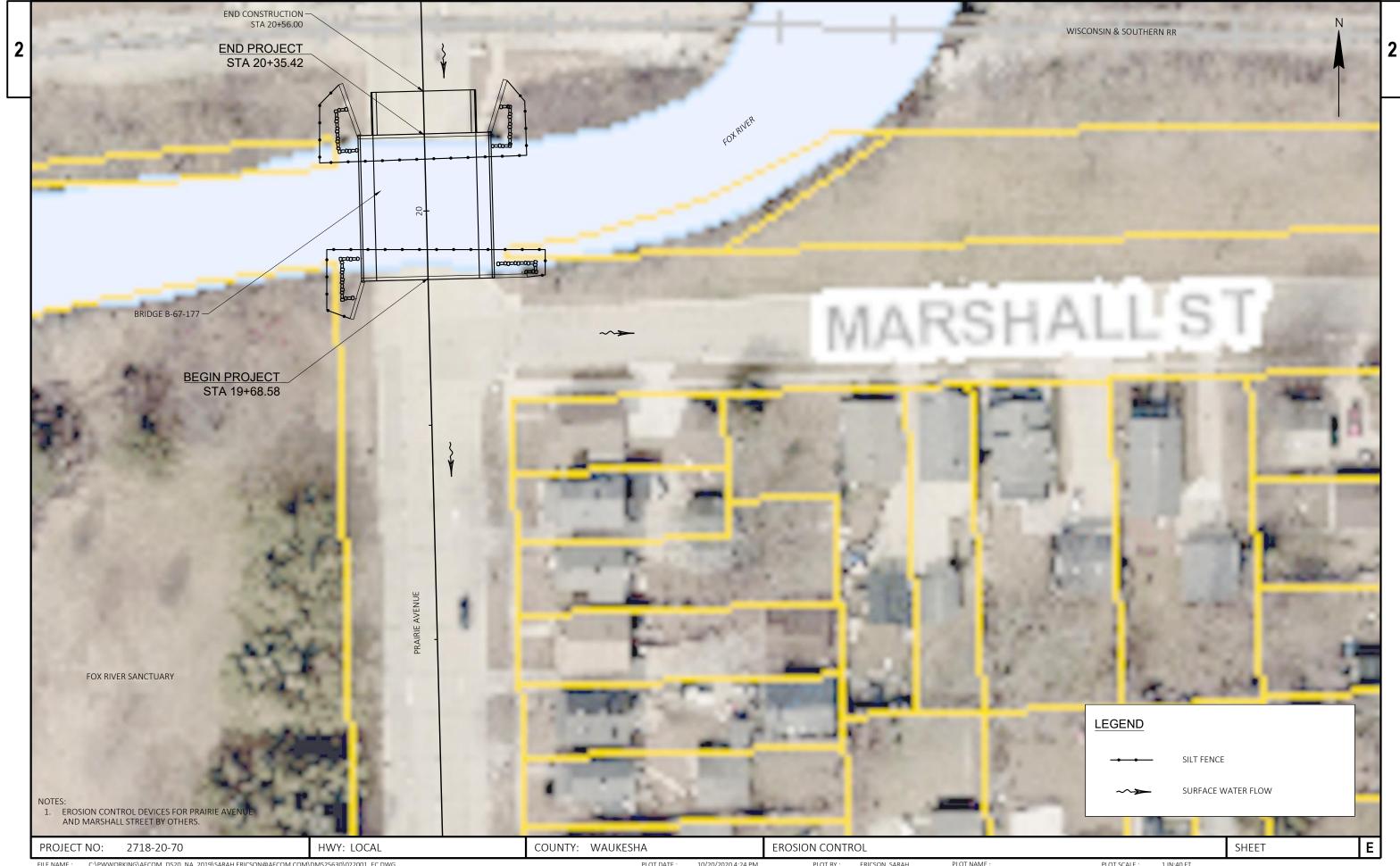
WISDOT/CADDS SHEET 42

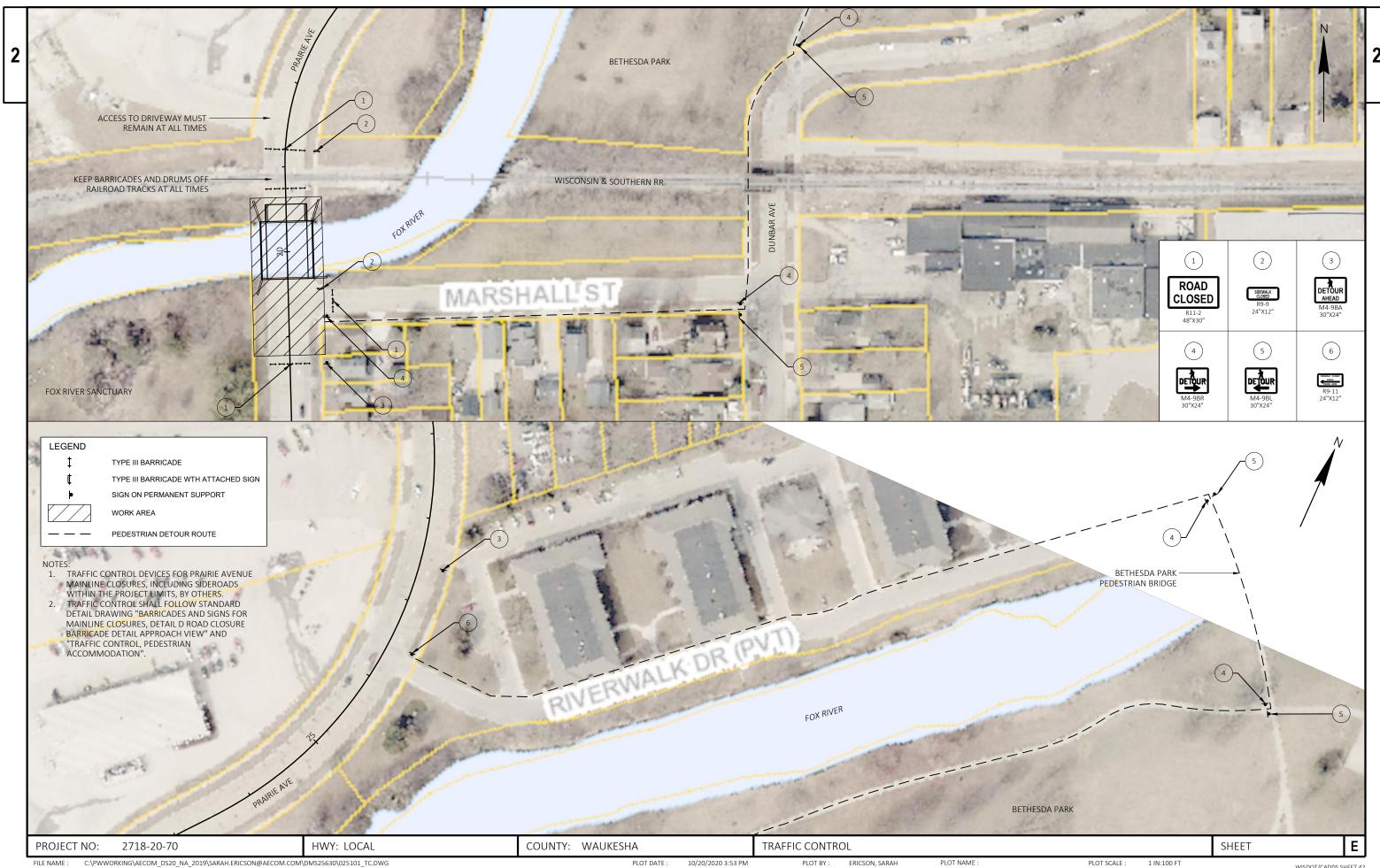


FILE NAME: C\\\PWWORKING\\Geom\_DS20\_NA\_2019\\SARAH.ERICSON@AECOM.COM\\DMS25630\\020201\_PO.DWG PLOT DATE: 10/20/2020 12:13 PM PLOT BY: ERICSON, SARAH PLOT NAME: PLOT NAME: PLOT NAME: 1 in:200 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - Plan 1 in 100 FT



C:\PWWORKING\AECOM\_DS20\_NA\_2019\SARAH.ERICSON@AECOM.COM\DMS25630\021001\_CD.DWG PLOT DATE: 8/18/2020 2:47 PM PLOT BY: ERICSON, SARAH PLOT NAME : PLOT SCALE : 1 IN:20 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - Plan 1 IN 100 FT





LAYOUT NAME - Plan 1 IN 100 FT

WISDOT/CADDS SHEET 42

					27 18-20-70
Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Concrete Pavement	SY	109.000	109.000
0004	205.0100	Excavation Common	CY	25.000	25.000
0006	213.0100	Finishing Roadway (project) 01. 2718-20-70	EACH	1.000	1.000
8000	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	52.000	52.000
0010	415.0410	Concrete Pavement Approach Slab	SY	98.000	98.000
0012	502.3200	Protective Surface Treatment	SY	356.000	356.000
0014	502.3215.S	Protective Surface Treatment Reseal	SY	97.000	97.000
0016	509.0301	Preparation Decks Type 1	SY	57.000	57.000
0018	509.0302	Preparation Decks Type 2	SY	14.000	14.000
0020	509.0500	Cleaning Decks	SY	356.000	356.000
0022	509.1200	Curb Repair	LF	53.000	53.000
0024	509.1500	Concrete Surface Repair	SF	20.000	20.000
0026	509.2000	Full-Depth Deck Repair	SY	2.000	2.000
0028	509.2500	Concrete Masonry Overlay Decks	CY	31.000	31.000
0030	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	40.000	40.000
0032	606.0300	Riprap Heavy	CY	48.000	48.000
0034	619.1000	Mobilization	EACH	1.000	1.000
0036	628.1504	Silt Fence	LF	370.000	370.000
0038	628.1520	Silt Fence Maintenance	LF	370.000	370.000
0040	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0042	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0044	628.7010	Inlet Protection Type B	EACH	1.000	1.000
0046	628.7015	Inlet Protection Type C	EACH	1.000	1.000
0048	643.0300	Traffic Control Drums	DAY	440.000	440.000
0050	643.0420	Traffic Control Barricades Type III	DAY	880.000	880.000
0052	643.0705	Traffic Control Warning Lights Type A	DAY	1,100.000	1,100.000
0054	643.0900	Traffic Control Signs	DAY	748.000	748.000
0056	643.5000	Traffic Control	EACH	1.000	1.000
0058	645.0120	Geotextile Type HR	SY	72.000	72.000
0060	650.9910	Construction Staking Supplemental Control (project) 01. 2718-20-70		1.000	1.000
0062	690.0250	Sawing Concrete	LF	49.000	49.000
0064	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0066	SPV.0060	Special 01. Adjusting Sanitary Manhole Covers	EACH	1.000	1.000

#### **APPROACH WORK**

							CAT 0030
	204.0100	205.0100	305.0120	415.0410	601.0409	690.0250	SPV.0060.01
	REMOVING	EXCAVATION	BASE AGGREGATE	CONCRETE PAVEMENT	CONCRETE CURB &	SAWING	ADJUSTING SANITARY
	<b>PAVEMENT</b>	COMMON	DENSE 1 1/4-INCH	APPROACH SLAB	GUTTER 30-INCH TYPE A	CONCRETE	MANHOLE COVERS
LOCATION	SY	CY	TON	SY	LF	LF	EACH
NORTH OF BRIDGE	109	25	52	98	40	49	1
TOTALS	109	25	52	98	40	49	1

	628.1504	628.1520	628.1905		628.7010	628.7015								
			MOBILIZATION	MOBILIZATION EMERGENCY	INLET	INLET								
		SILT FENCE	EROSION	EROSION	PROTECTION	PROTECTION								
	SILT FENCE	MAINTENANCE	CONTROL	CONTROL	TYPE B	TYPE C								
LOCATION	LF	LF	EACH	EACH	EACH	EACH								
PROJECT 2718-20-70	336	336	2	1	-	-								
UNDISTRIBUTED	34	34	-	-	1	1								
TOTALS	370	370	2	1	1	1								

#### TRAFFIC CONTROL

		643.0	0300	643.0	0420	643.	0705	643.	643.5000	
		TRAFFIC C	TRAFFIC CONTROL		TRAFFIC CONTROL		CONTROL	TRAFFIC CONTROL		TRAFFIC
		DRU	IMS	BARRICAD	ES TYPE III	WARNING LI	GHTS TYPE A	SIG	CONTROL	
LOCATION	DAYS	EACH (1)	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH
PRAIRIE AVENUE (SOUTH OF BRIDGE)	44	-	-	9	396	12	528	3	132	-
PRAIRIE AVENUE (NORTH OF BRIDGE)	44	-	-	11	484	13	572	2	88	-
PEDESTRIAN DETOUR	44	-	-	-	-	-	-	12	528	-
PROJECT 2718-20-70	44	10	440	-	-	-	-	-	-	1
TOTALS			440		880		1,100		748	1

NOTES:

(1) UNDISTRIBUTED QUANTITY

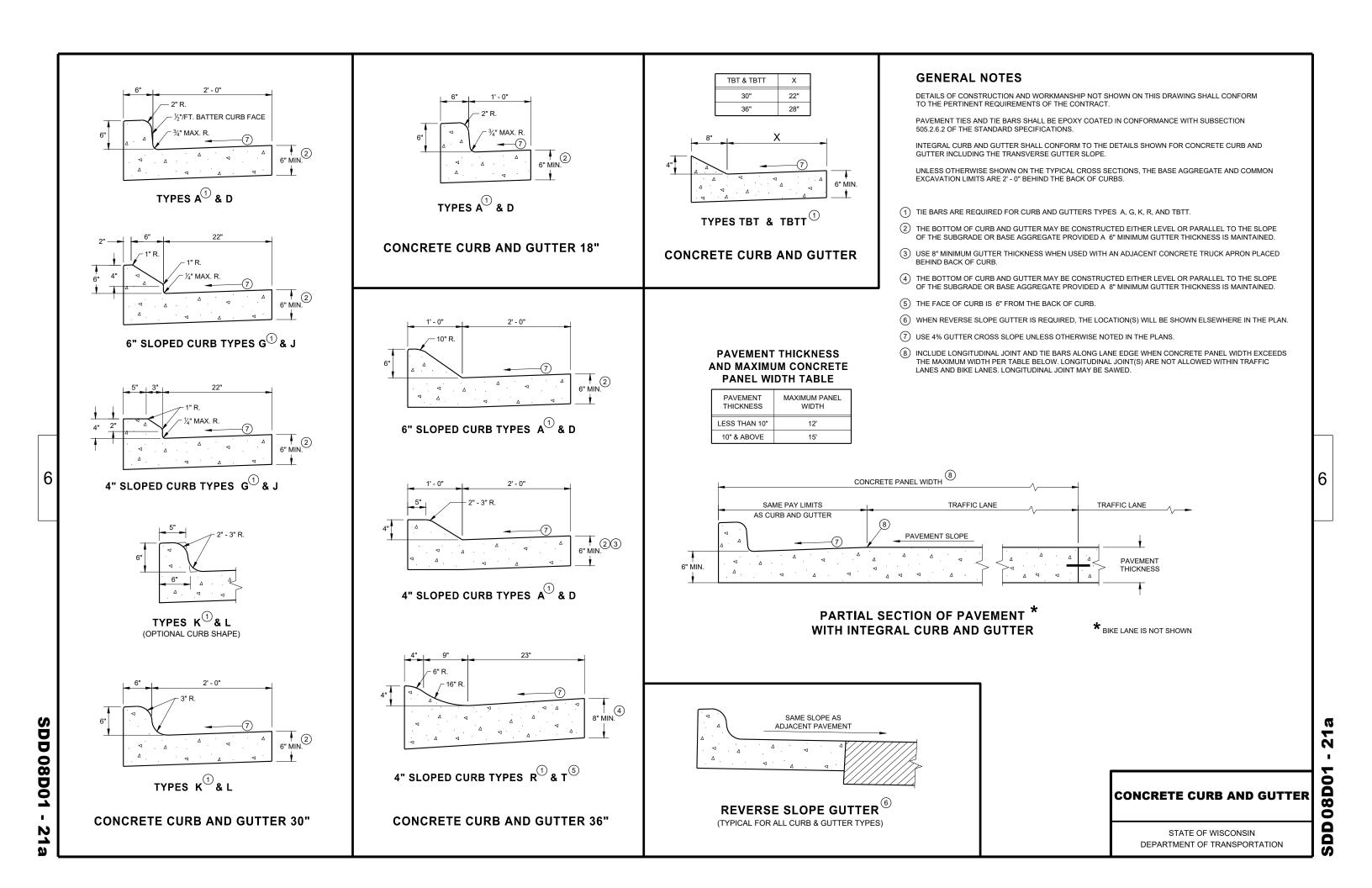
UNLESS OTHERWISE NOTED ALL ITEMS IN CATEGORY 0010

PROJECT NO: 2718-20-70 HWY: LOCAL COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET NO: E

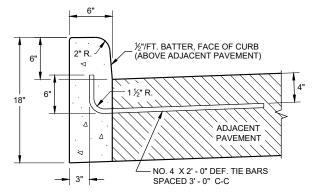
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### Standard Detail Drawing List

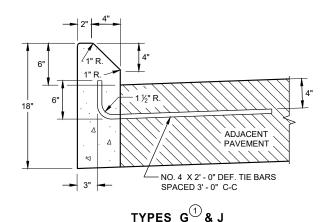
08D01-21A	CONCRETE CURB & GUTTER
08D01-21B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES



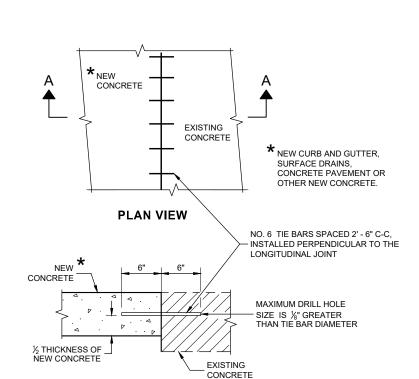
#### **DETAIL OF CURB AND GUTTER AT INLETS** (TYPICAL H INLET COVER SHOWN)



TYPES A D



**CONCRETE CURB** 



DEPRESS BELOW NORMAL - FLOWLINE TO MATCH GRATE ELEVATION

GRATE ELEVATION AS SHOWN ON STORM SEVER DETAILS

CURB AND GUTTER

SECTION A - A

**TIE BARS DRILLED** INTO EXISTING PAVEMENT

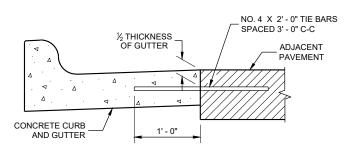
#### **GENERAL NOTES**

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

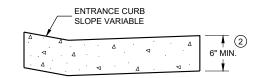
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 9 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION  $^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\scriptsize{1}}}}}}$ 



DRIVEWAY ENTRANCE CURB® (WHEN DIRECTED BY THE ENGINEER)

#### **CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER February 2020 DATE

N **08DO**, 

### TYPICAL APPLICATION OF SILT FENCE

6

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# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### GENERAL NOTES

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

- $\bigcirc$  HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6





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

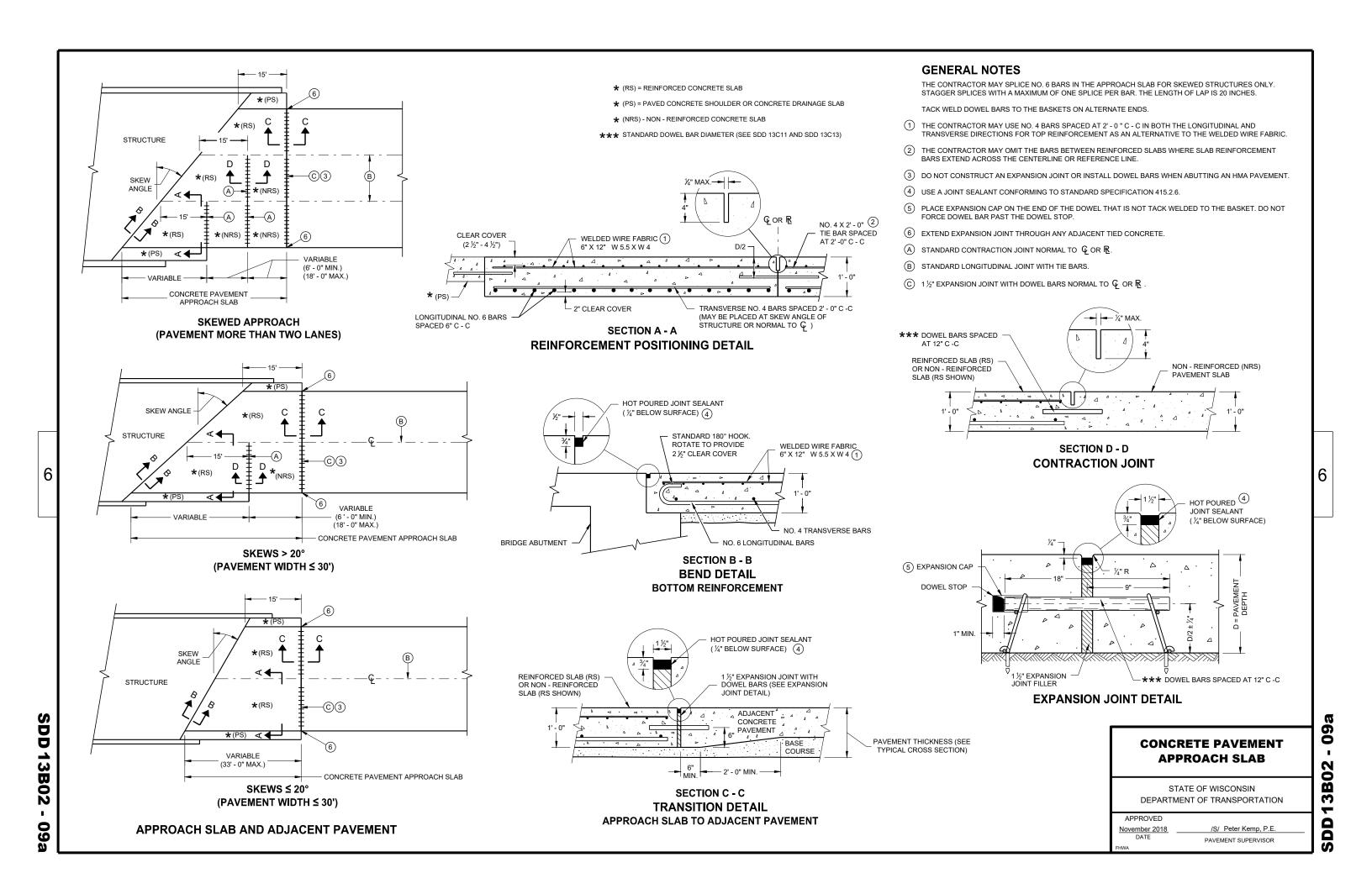
10/16/02

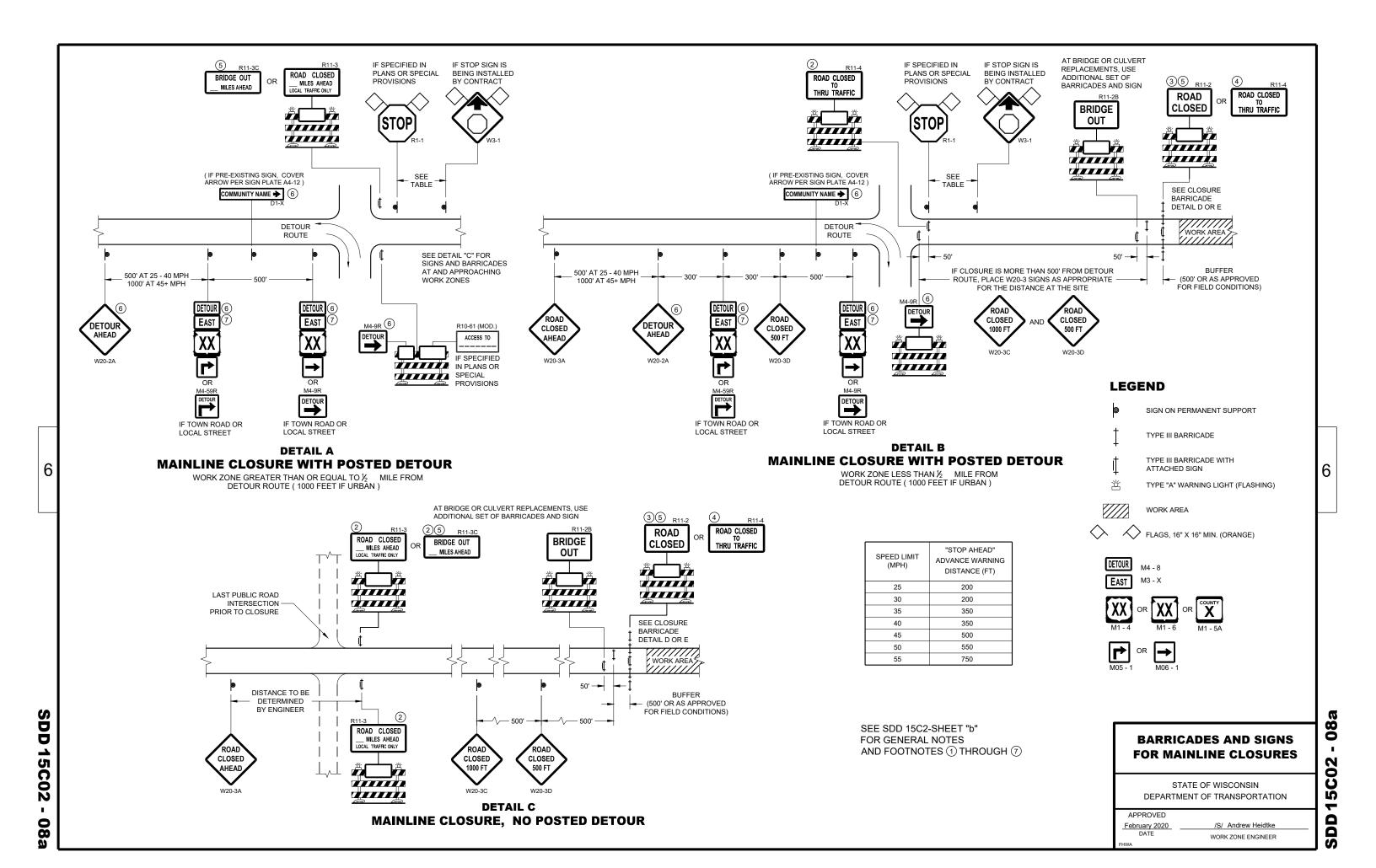
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

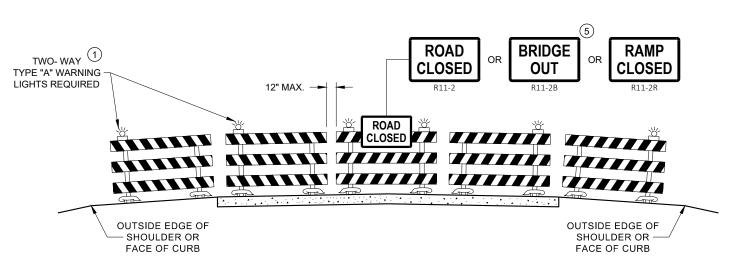
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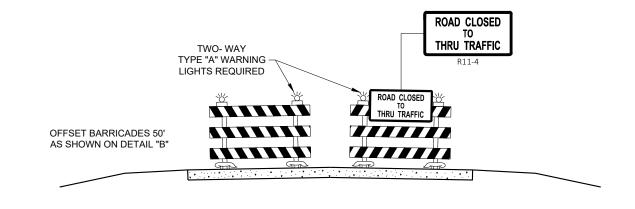
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#### **DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW**



#### **DETAIL E** LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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

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

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

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

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 THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

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"

- 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 AN 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 ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE 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
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### **BARRICADES AND SIGNS** FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

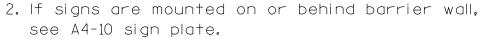
APPROVED

February 2020 DATE

WORK ZONE ENGINEER

Ŋ 

0



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" ( $\pm$ ).

- 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 signs mounted on traffic signal poles is  $5'-3''(\frac{+}{2})$ .
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.

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

\*\* Curb Flowline

D
White Edgeline Location

\*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

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

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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. \_A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

APPROVED



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. J-Assemblies are considered to be one sign for mounting height.
- 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'' ( $\pm$ ) 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.

## POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

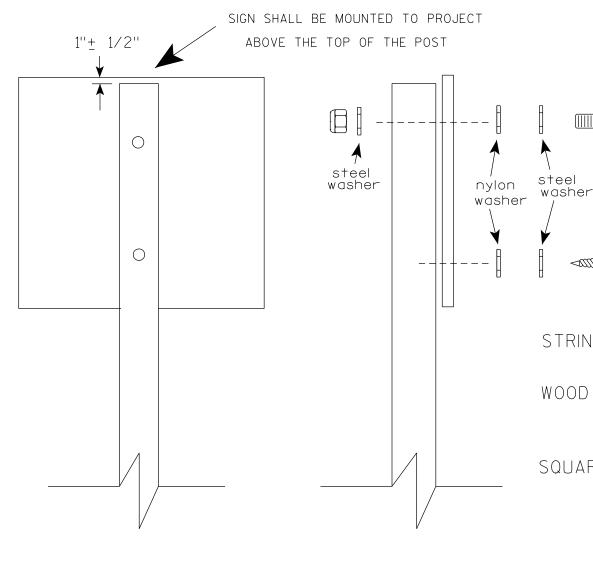
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4" \times 6")$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS -  $\frac{1}{32}$  " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN



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

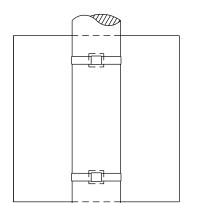
DATE 2/05/15

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

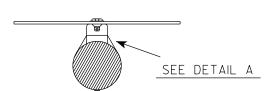
For State Traffic Engineer

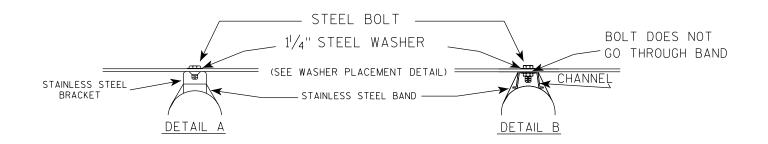


### BANDING

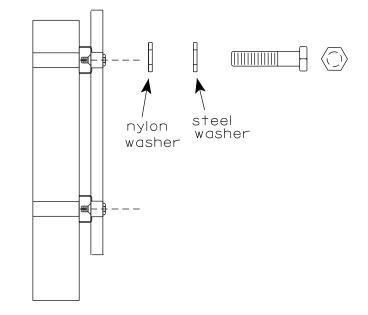


SINGLE SIGN





### WASHER PLACEMENT



HWY:

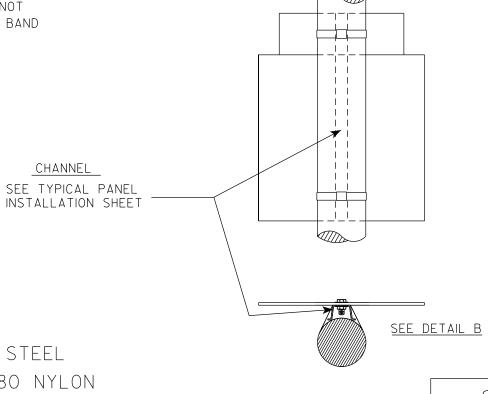
WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

#### GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

#### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

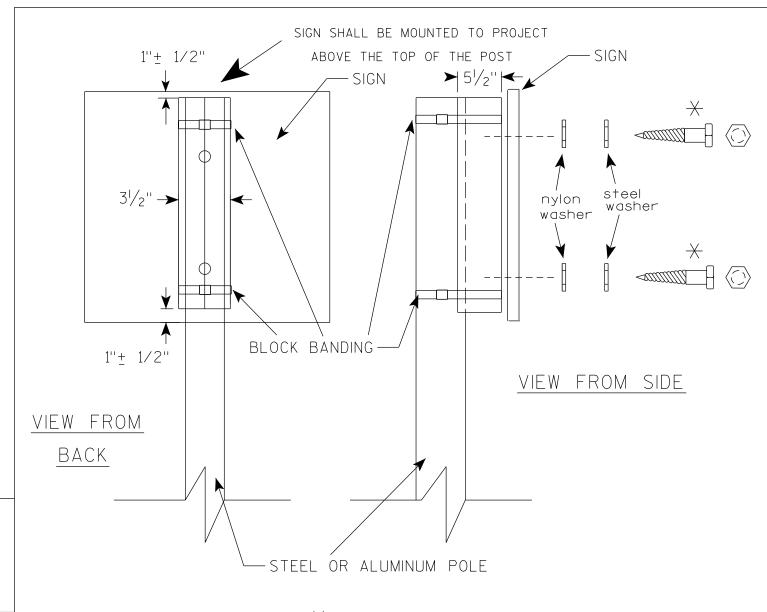
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

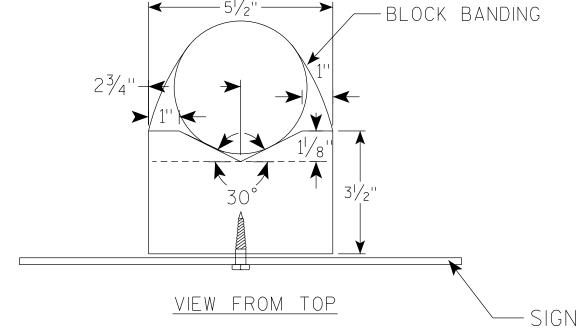
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





### GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

  SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 $\rightarrow$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $2\frac{1}{2}$ "

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. \_A5-10.2

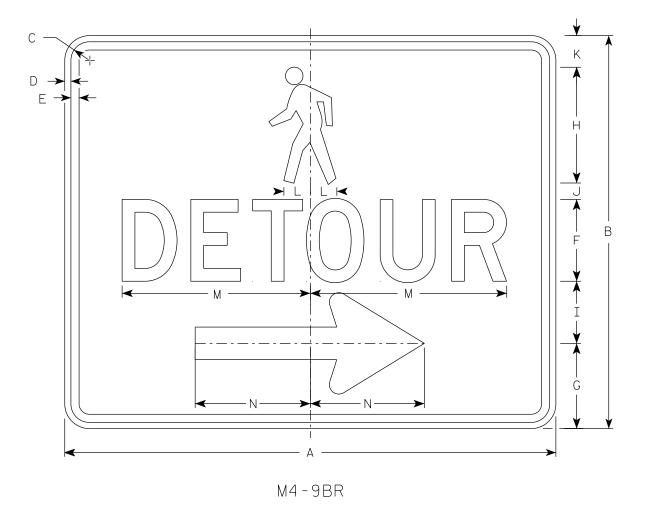
PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

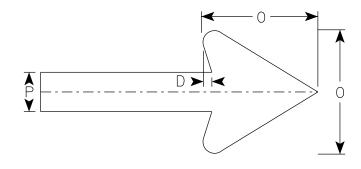
WISDOT/CADDS SHEET 42



- 1. Sign is Type II-Type F Reflective
- 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

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	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 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

STANDARD SIGN M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer DATE <u>7/1/19</u>

SHEET NO:

PLATE NO. M4-9B.2

HWY:

PROJECT NO:

COUNTY:

PLOT DATE: 1-JUL 2019 1:57

PLOT BY: mscj9h

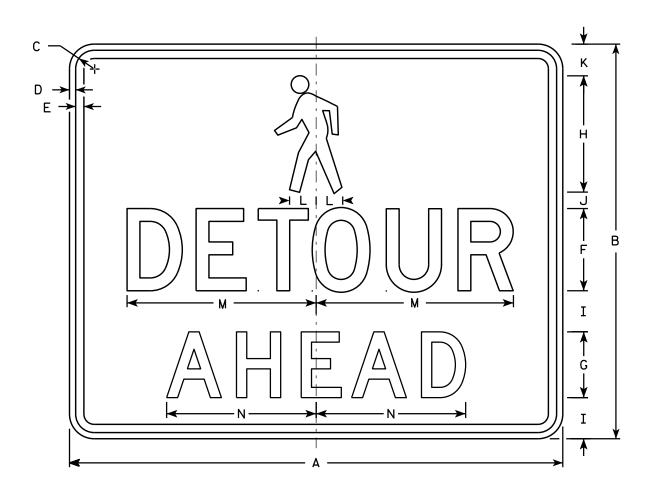
PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective
- 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.



M4-9BA

HWY:

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areo sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7 1/8	2 1/2	1	1 1/8	1 5/8	11 3/4	9 1/8													5.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN M4-9BA

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Fac. State Traffic Engineer

DATE 3/24/16 PLATE NO. M4-9BA.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\M49BA.dgn

PROJECT NO:

PLOT DATE: 24-MAR-2016 14:57

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.837526:1.000000

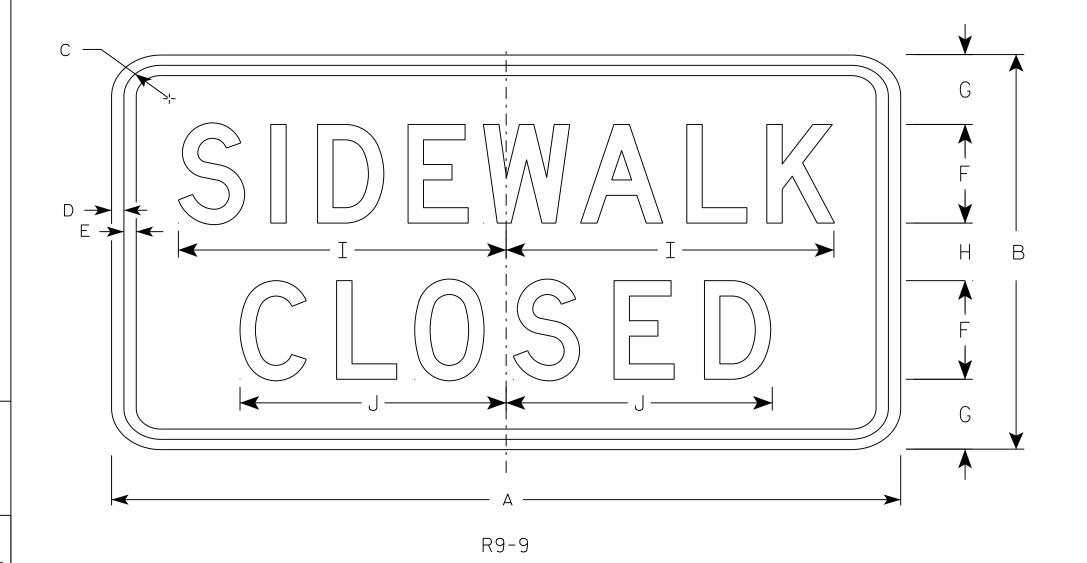
WISDOT/CADDS SHEET 42

NAME: PLOT SCALE: 5

- 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.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



SIZE A 2S 24 1 3/4 1/2 2 1/8 1 3/4 10 1/2 12 3 8 1/8 2.0 24 1 3/4 1/2 2 1/8 1 3/4 8 1/8 12 10 2.0 1 3/4 3 1/2 30 18 1/2 1/2 3 | 12 1/2 | 10 1/4 3.75

COUNTY:

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Marther R Ray

DATE <u>8/11/16</u>

SHEET NO: R9-9.6

Ε

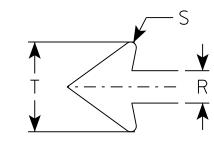
HWY:

PROJECT NO:

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C except Size 1 is 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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



R9-11

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	O	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 %	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 %	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 1/8	6 1/8		1 1/4	1/4	3 %							3.125
4																											
5																											

COUNTY:

STANDARD SIGN R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For 3

PLATE NO. R9-11.3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R911.DGN

HWY:

PROJECT NO:

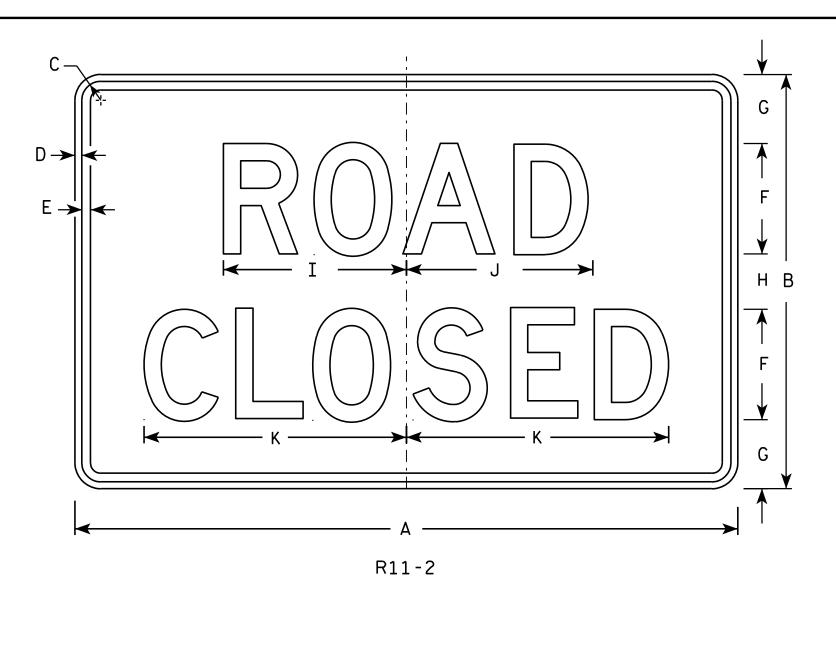
 $D \rightarrow$ 

PLOT DATE: 01-DEC-2016 11:45

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

PLOT SCALE: 5.927195:1.000000

WISDOT/CADDS SHEET 42

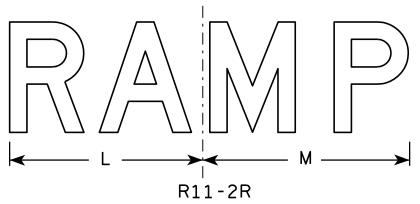


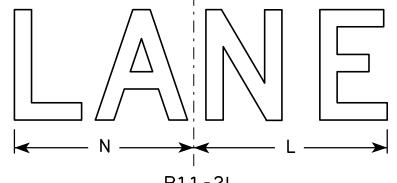
### <u>NOTES</u>

- 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 - 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. Modify the message as required.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	E	F	G	Н	I	C	K	L	M	N	0	Р	0	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	<b>I</b>	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

HWY:

PROJECT NO:

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-32 OPERATING RATING: HS-53 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES: CONCRETE MASONRY OVERLAY DECKS f'c = 4,000 P.S.I.

#### TRAFFIC DATA

PRAIRIE AVE: A.D.T. = 9,800 (2018)

#### NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE SURFACE OF THE SIDEWALKS AND CURBS UNDER THE BID ITEM "PROTECTIVE SURFACE TREATMENT RESEAL."

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

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE AND ACCOUNTING FOR VARIATION IN THE EXISTING DECK CROSS SLOPE.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION, FULL-DEPTH DECK REPAIRS AND CURB REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

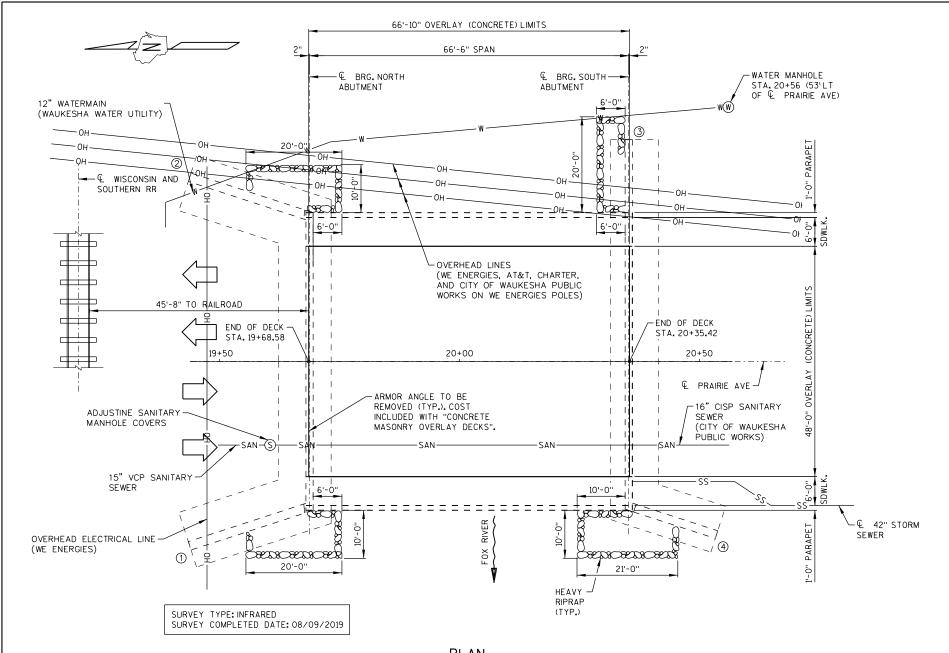
ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON MINIMUM OVERLAY THICKNESS OF 11/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS GIVEN IN THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

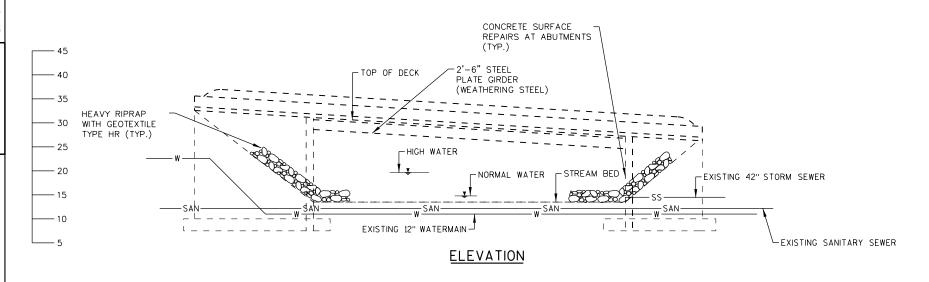
THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR CONSIDERED ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES.

#### LIST OF DRAWINGS

- CONCRETE OVERLAY
- CROSS SECTION AND QUANTITIES
- INFRARED SCAN DATA



PLAN (CONCRETE OVERLAY - SINGLE SPAN, STEEL DECK GIRDER BRIDGE)



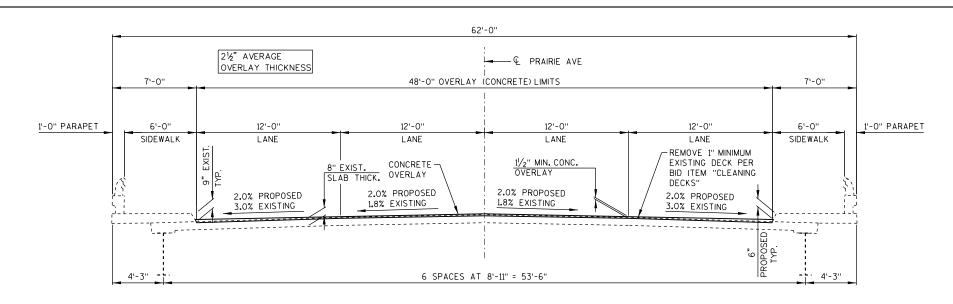


BUREAU OF STRUCTURES CONTACT: AARON BONK 608-261-0261 CONSULTANT CONTACT: MICHAEL ARNOLD 414-831-4179



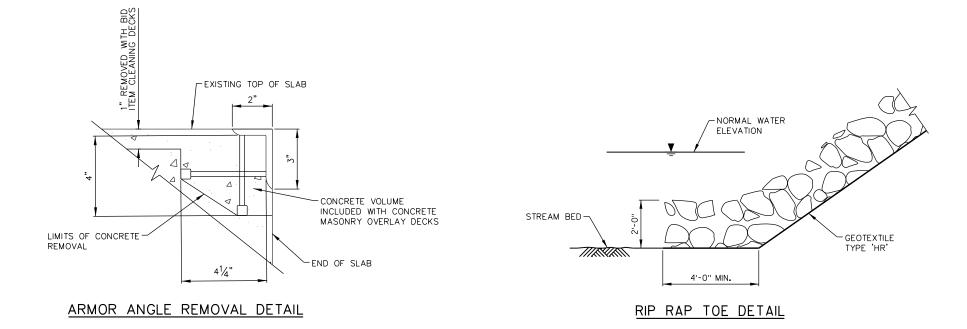


TOTAL ESTIMATED QUANTITIES											
BID ITEM NUMBER	BID ITEM	UNIT	TOTALS								
502.3200	PROTECTIVE SURFACE TREATMENT	SY	356								
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	97								
509.0301	PREPARATION DECKS TYPE 1	SY	57								
509.0302	PREPARATION DECKS TYPE 2	SY	14								
509.0500	CLEANING DECKS	SY	356								
509.1200	CURB REPAIR	LF	53								
509.1500	CONCRETE SURFACE REPAIR	SF	20								
509.2000	FULL-DEPTH DECK REPAIR	SY	2								
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	31								
606.0300	RIPRAP HEAVY	CY	48								
645.0120	GEOTEXTILE TYPE HR	SY	<b>7</b> 2								



#### CROSS SECTION THRU ROADWAY

LOOKING SOUTH



8

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8

68'-0" BACK TO BACK OF ABUTMENTS

#### PROPOSED REHABILITATION AREAS

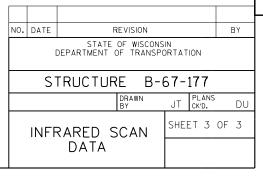
PLAN

0' 5' 10' 20'

SURFACE TYPE: CONCRETE - NO OVERLAY INFRARED INSPECTION DATE: 8/9/19 INFRARED INSPECTION PERFORMED BY AECOM

#### STRUCTURE NO. B-67-177

REHABILITATION AREA SUMMARY		ROAI	DWAY	SIDEV	VALKS		LEGI	END	
ITEM	UNIT	QUANT.	%	QUANT.	%			DELAMINATION	
TOTAL AREA	yd <sup>2</sup>	356.2		89.1		DECK PREPARATION AREA		SPALL	
SHADE/DEBRIS	yd <sup>2</sup>	0		0				DEBOND	
PREPARATION, DECKS, TYPE 1	yd <sup>2</sup>	35.6	10.0	21.8	24.5	CLIADE (DEDDIC		ASPHALT PATCH	
PREPARATION, DECKS, TYPE 2	yd <sup>2</sup>	8.9	2.5	5.5	6.2	SHADE/DEBRIS	V4/11		
FULL DEPTH DECK REPAIR	yd <sup>2</sup>	1.0	0.3	1.0	1,1			CONCRETE PATCH	



Notes



# Wisconsin Department of Transportation

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