DEC 2015 ORDER OF SHEETS		CTATE OF WICCONOIN		STATE PROJ
STATE OF STATE OF		STATE OF WISCONSIN		8996-00-98
Section No. 1 Title Section No. 2 Typical Sections and Details	DEDADT	MENT OF TRANSPOR	TATION	0330-00-30
(Includes Erosion Control Plans)	DEPARI	MENT OF TRANSPOR	IAIION	
Section No. 3 Estimate of Quantities				
Section No. 3 Miscellaneous Quantities		PLAN OF PROPOSED IMPROVEMENT	L.	
Section No. 4 Right of Way Plat Section No. 5 Plan and Profile				
Section No. 5 Plan and Profile Section No. 5 Standard Detail Drawings	CHIDDE	EWA FALLS SPRI	NC STDEET	
Section No. 7 Sign Plates	COMPE	WA FALLS SPAI	NG SINEE!	
Section No. 8 Structure Plans		DUNCAN CREEK BRIDGE P090711		
Section No. 9 Computer Earthwork Data		100 0=0		
Section No. 9 Cross Sections		LOC STR		
TOTAL SHEETS = 46	2)	CHIPDEWA COUNTY		
CHIPPEWA		CHIPPEWA COUNTY		
COUNTY				
ma /	1	STATE PROJECT NUMBER		
		8996-00-98		
2				
Harry A		STRUCTURE P-9-711		
N				
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		The state of the s	8	
BEC	IN PROJECT		日 第2	
PROJECT LOCATION STA	. 9+30.32	SY EN CONTRACTOR CONTRACTOR	£.	
	129468.78	TO YOU X PARTY OF THE PARTY OF	PUMPHIJUSE See See See See See See See See See See	
The state of the s	172061.02		NST	
DESIGN DESIGNATION	1	8 8 8 8 8	AMST	
A.D.T. (2016) = 510 A.D.T. (2036) = 620	and and	Man Charles Con	V	
D.H.V. = 50	2	North No.	END PROJECT	
0. = 0/100		5 5 5	STA. 10+75	
T. = 3.3% DESIGN SPEED = 30 MPH	2	() () () () () () () () () ()	Y • 129562.72 X • 172171.06	
ESALS = N/A		N. C.	X	
CONVENTIONAL SYMBOLS	200	RIVER CHIPPEWA RIVER		
PLAN	6	COURT COURT		
CORPORATE LIMITS ////// PROFILE	~ (2)	THIPPE!	/	
PROPERTY LINE PL + 58.1 GRADE LINE		Ch.	A	
LOT LINE ORIGINAL GROUND MARSH OR ROCK P	ROFILE - ROCK	PA PS CHIPP	Jacob .	//
LIMITED HIGHWAY EASEMENT L (To be noted a	s such)			
PROPOSED OR NEW R/W LINE	_ LABEL			
SLOPE INTERCEPT GRADE ELEVATION	95.	CHE		
	V(ew) DE	DR 7 5 400 D		
REFERENCE LINE EXISTING CULVERT 1= UTILITIES	, , , , , , , , , , , , , , , , , , ,	DIV. 7 0 300 1 2 4 PM		
PROPOSED CULVERT OVERHEAD	—— он ——			
(Box or Pipe) ELECTRIC	E			
COMBUSTIBLE FLUIDS CAUTION FIBER OPTIC	FO			
GAS SANITARY STATE	c	LAYOUT 0 500 FT.		
SANITARY SEWER STORM SEWER	— SAN —	SCALE TO THE SCALE		
HIGH VOLTAGE CAUTION TELEPHONE				
WATER	w	TOTAL NET LENGTH OF CENTERLINE = 0.010 MI.	COORDINATES ON THIS PLAN ARE REF	ERENCED TO
MARSH AREA UTILITY PEDESTAL	×		THE WISCONSIN STATE PLANE COORDINATE SY: SCALED FROM U.S.G.S. TOPOGRAP	STEM, CENTRAL ZONE.
POWER POLE	<u> </u>		STANLEY QUAD, FOR IDENTIFICATION	ON ONLY.
WOODED OR SHRUB AREA TELEPHONE POLE	Ø			

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 8996-00-98

ACCEPTED FOR

Chippewa Falls

Director of Public Works

ORIGINAL PLANS PREPARED BY

ASSOCIATES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com

WISCONS, CHRISTOPHER B. MCMAHON

7/6/15 STATE OF WISCONSIN

CONTRACTOR OF THE PARTY OF THE

DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor

AYRES ASSOCIATES INC AYRES ASSOCIATES INC

C.O. Examiner

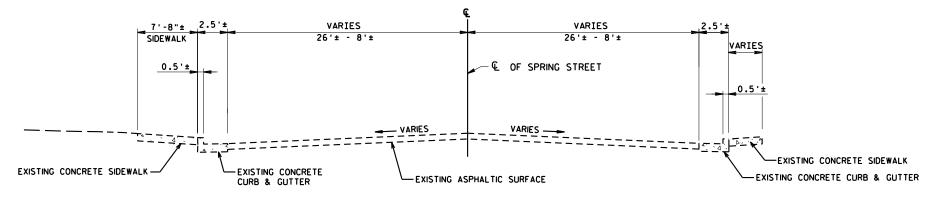
APPROVED FOR THE DEPARTMENT

KNIGHT E/A. INC.

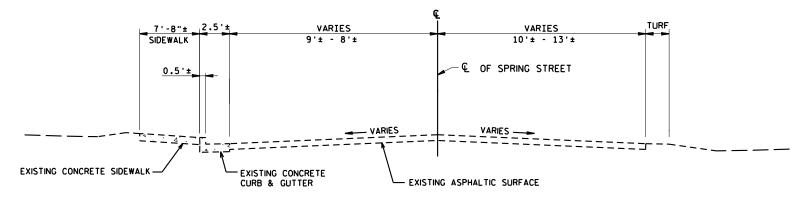
cs581

E





(WEST APPROACH)



EXISTING TYPICAL SECTION
(EAST APPROACH)

PROJECT NO: 8996-00-98 HWY: SPRING STREET COUNTY: CHIPPEWA TYPICAL SECTIONS SHEET E

GENERAL NOTES

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

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

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

UTILITIES

CITY OF CHIPPEWA FALLS 30 W. CENTRAL STREET CHIPPEWA FALLS. WI 54729 ATTN: RICHARD RUBENZER 715-726-2701 rrubenzer@chippewafalls-wi.gov

XCEL ENERGY 1414 WEST HAMILTON AVE. EAU CLAIRE. WI 54702-0008 ATTN: DAWN SCHULTZ 715-737-2482 dawn.schultz@xcelenergy.com

AT&T 304 SOUTH DEWEY STREET EAU CLAIRE, WI 54701 ATTN: RICK PODOLAK 715-839-5565 rp4514@att.com

ABBREVIATIONS

MON

NORM

OAL

PC PD

PΙ

PΚ

PLE

РΤ

RT

R/W

STA

TLF

VAR

WL

SY

REO'D

SHLDR

SQUARE FEET

SQUARE YARD

SHOULDER

STATION

VARIES

WELL

* * DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS **ACRES** CHIS CHISELED CENTERLINE COR CORNER CWT COUNT CUBIC YARD CY EL ELEVATION GAL GALLON HOUSE ΙP IRON PIPE Fill or (800)242-8511 LB POUND LF LS LINEAR FEET LUMP SUM LT MAX LEFT www.DiggersHotline.com MAXIMUM MIN

MINIMUM MONUMENT NORMAL OVERALL LENGTH POINT OF CURVATURE PEDESTAL POINT OF INTERSECTION PARKER-KALON PROPERTY LINE PERMANENT LIMITED EASEMENT POWER POLE POINT OF TANGENCY RADIUS REQUIRED RIGHT RIGHT-OF-WAY

TEMPORARY LIMITED EASEMENT

BRIDGE

DESIGNER AYRES ASSOCIATES 3433 OAKWOOD HILLS PARKWAY EAU CLAIRE, WI 54701 ATTN: CHRIS McMAHON 715-834-3161 mcmahonc@AyresAssociates.com

WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONTACT:

1300 W. CLAIREMONT AVE. EAU CLAIRE, WI. 54702 715-839-1609 christopherj.willger@wisconsin.gov

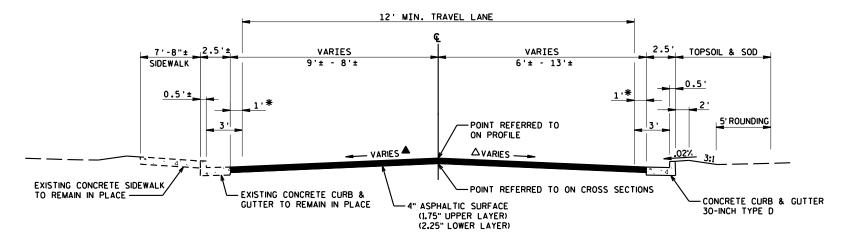
12' MIN. TRAVEL LANE 7'-8"± 2.5' SIDEWALK VARIES VARIES 26'± - 8'± 26'± - 6'± VARIES 2.5'± 0.5 POINT REFERRED TO - MATCH INTO EXISTING SIDEWALK ON PROFILE — VARIES 📤 △VARIES — CONCRETE SIDEWALK, 4-INCH CONCRETE SIDEWALK POINT REFERRED TO ON CROSS SECTIONS CONCRETE CURB & GUTTER 4-INCH CONCRETE CURB & GUTTER ASPHALTIC SURFACE 30-INCH TYPE D (1.75" UPPER LAYER) 30-INCH TYPE D (2.25" LOWER LAYER)

FINISHED TYPICAL SECTION

(WEST APPROACH)

* URBAN PAVED SHOULDER

▲ 0.4% - 2.4% (x̄ = 1.8%) \triangle 2.2% - 3.7% (\bar{x} = 3.2%)



FINISHED TYPICAL SECTION

(EAST APPROACH)

*** URBAN PAVED SHOULDER**

 \triangle 0.2% - 2.0% (\bar{x} = 1.2%)

 \triangle 0.6% - 1.4% (\bar{x} = 1.0%)

CHRIS WILLGER

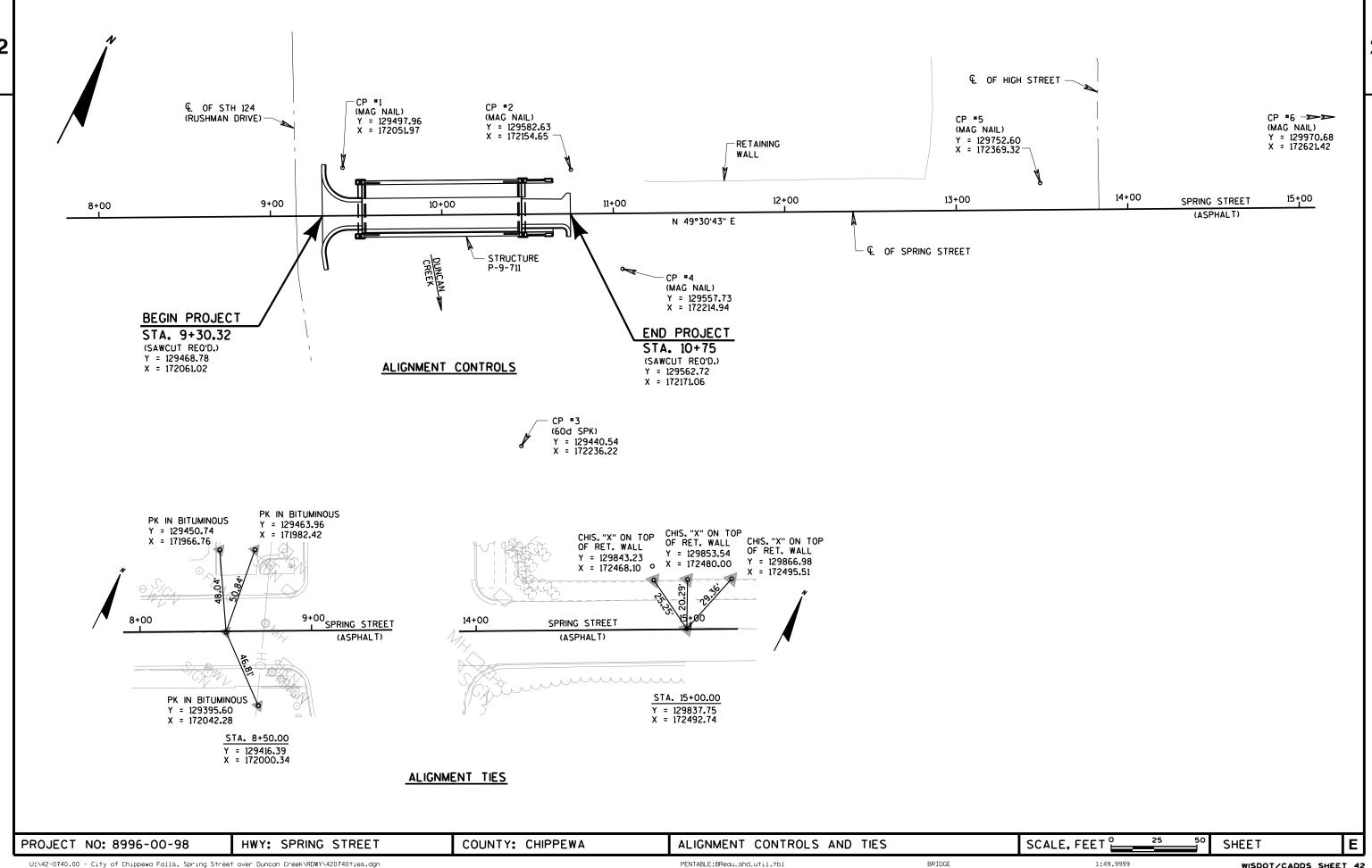
PROJECT NO: 8996-00-98

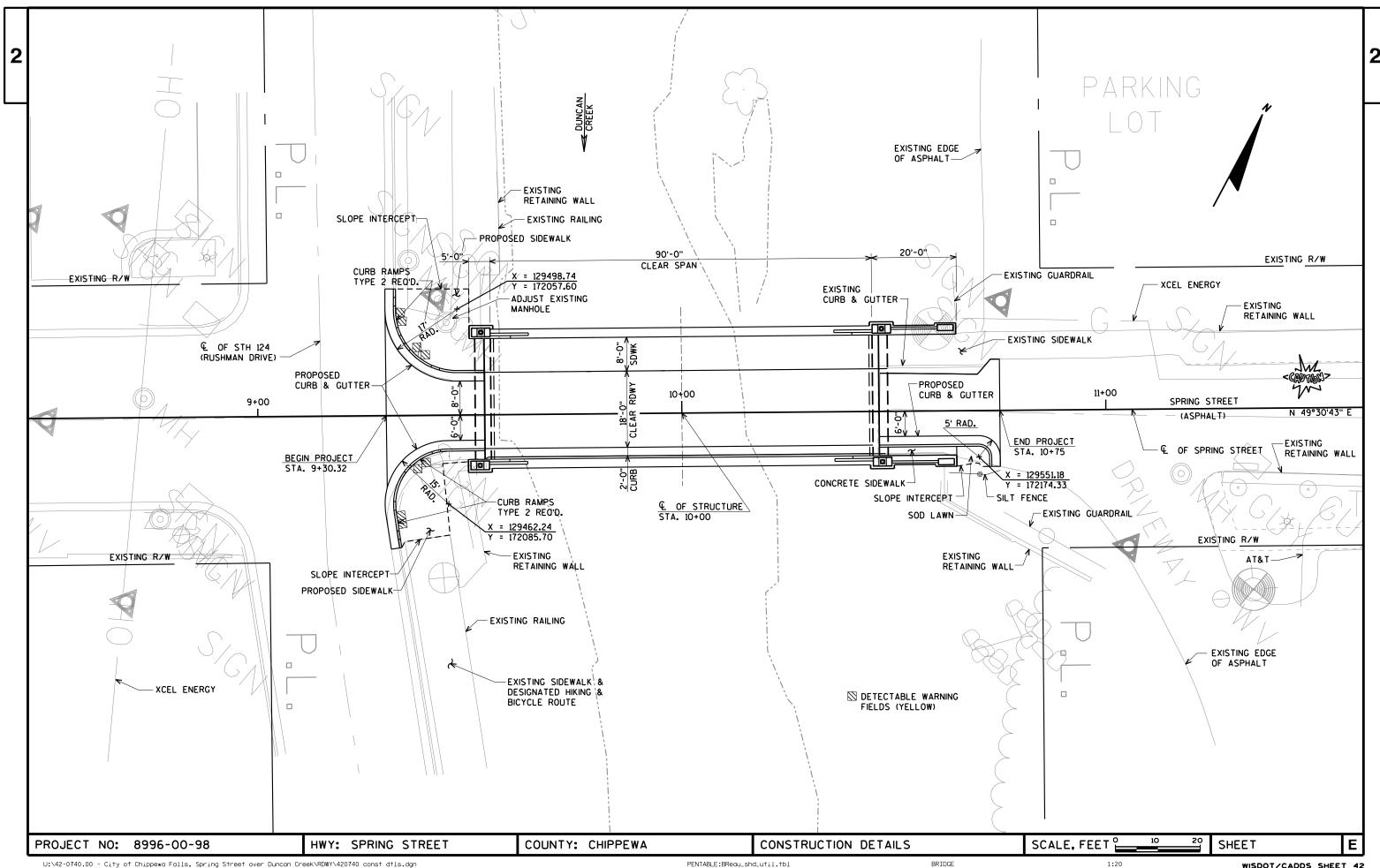
HWY: SPRING STREET

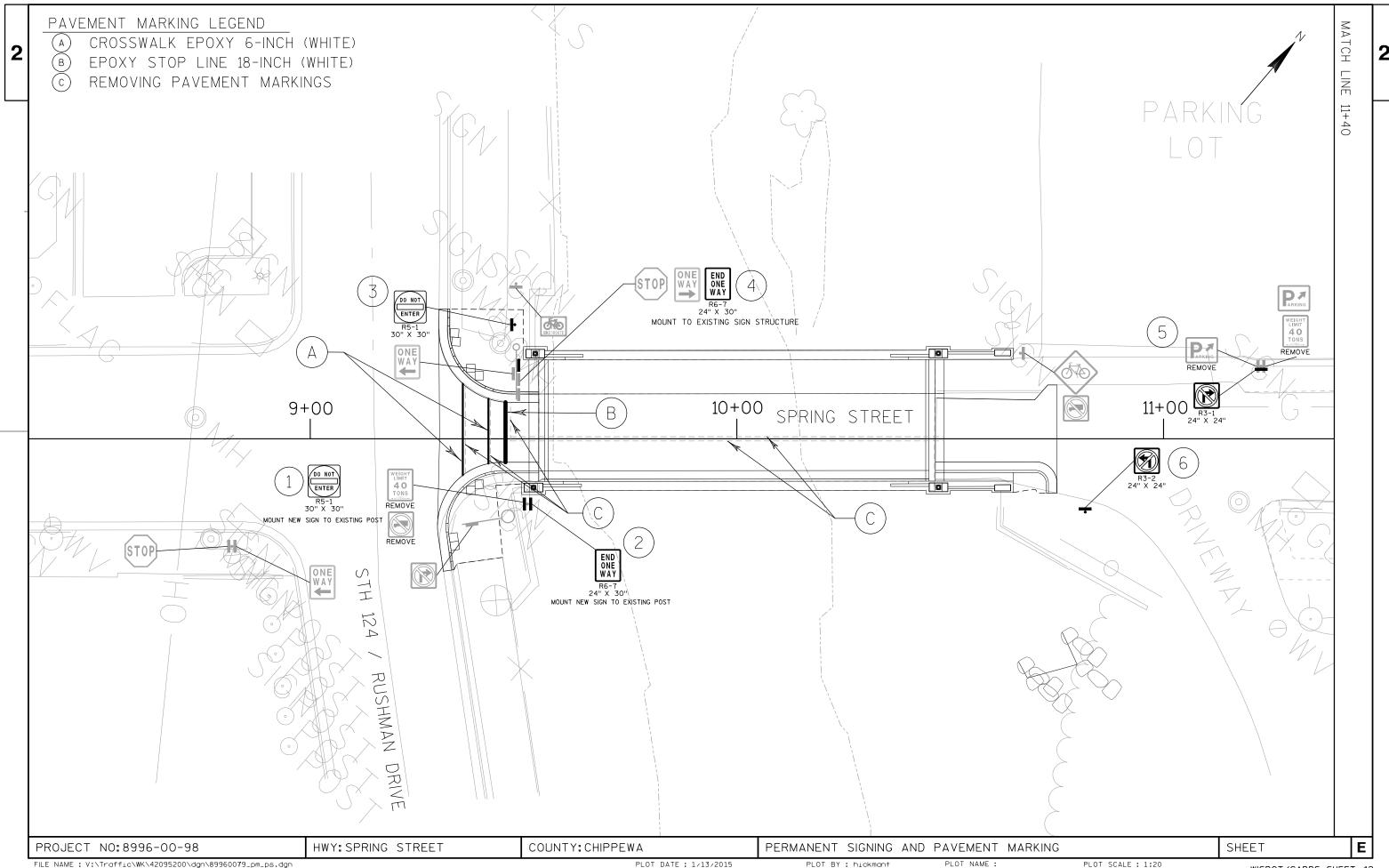
COUNTY: CHIPPEWA

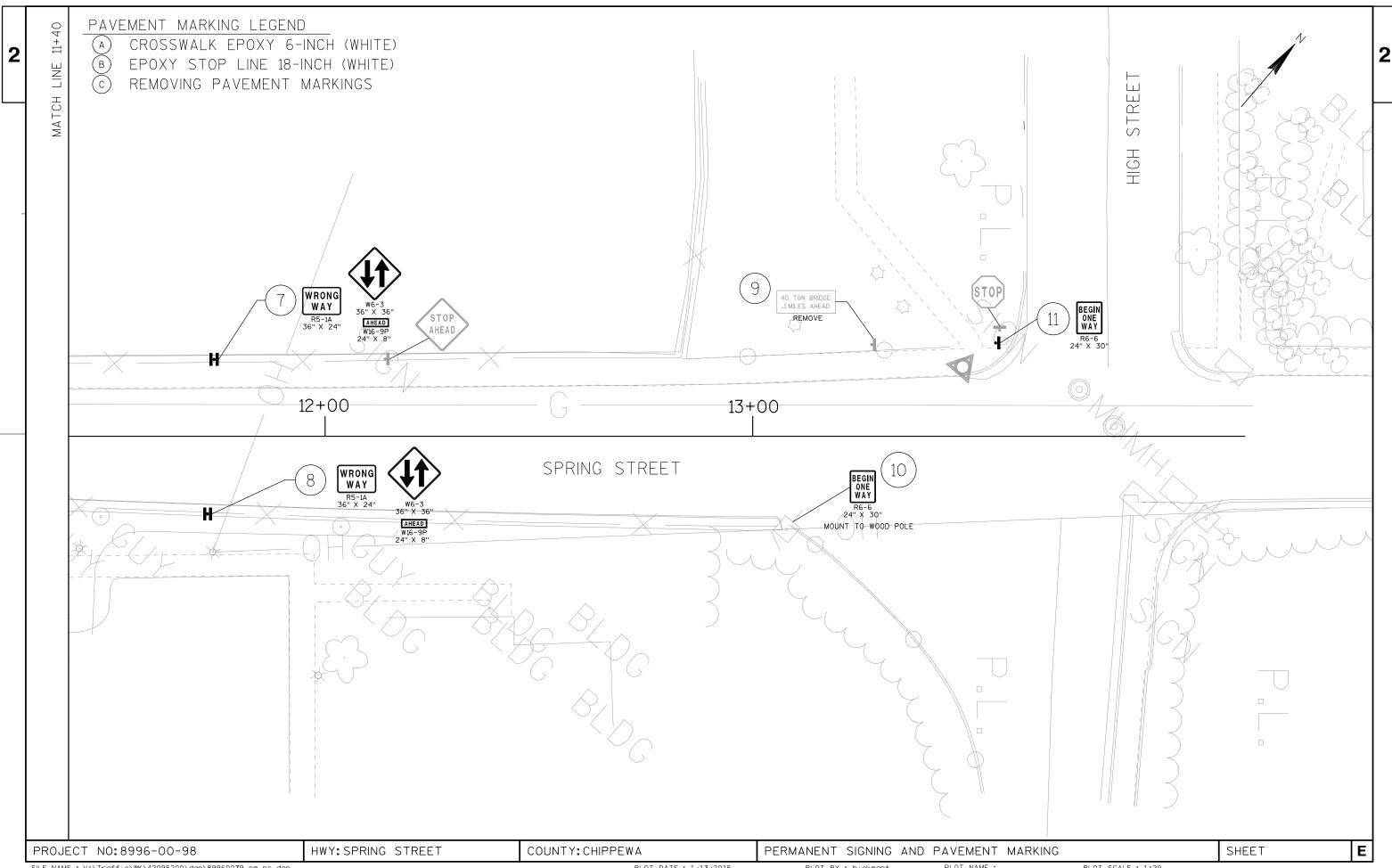
TYPICAL SECTIONS

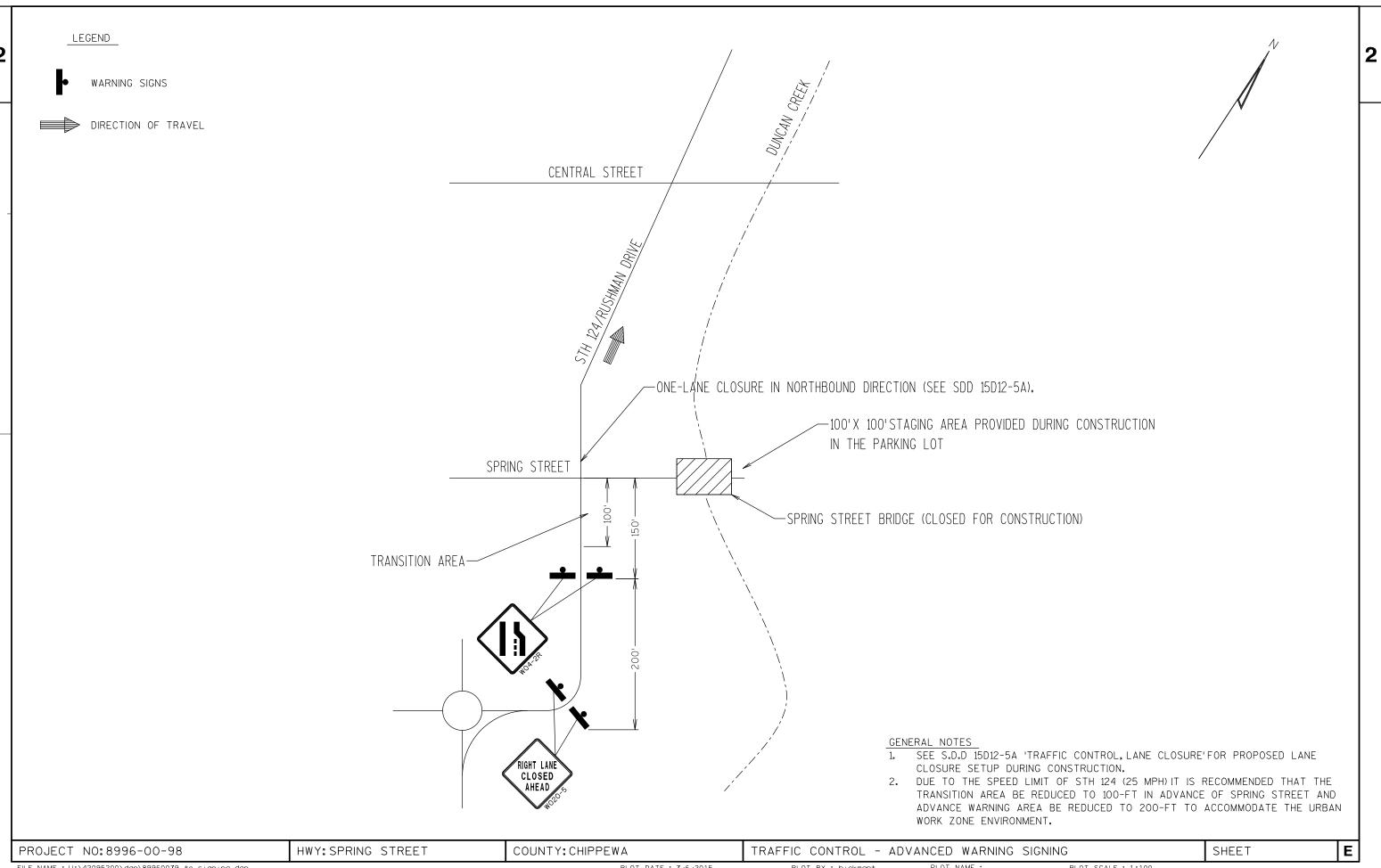
SHEET











DATE 05	50CT15	E S T	ГІМАТ	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	8996-00-98 QUANTI TY
0010	204. 0110	Removing Asphaltic Surface	SY	125. 000	125. 000
0020	204. 0150	Removing Curb & Gutter	LF	78. 000	78. 000
0030	204. 0155	Removing Concrete Sidewalk	SY	55.000	55. 000
0040	211. 0100	Prepare Foundation for Asphaltic Paving (project) 01. 8996-00-98	LS	1. 000	1. 000
0050	213. 0100	Finishing Roadway (project) 01. 8996-00-98	EACH	1.000	1. 000
0060	455. 0605	Tack Coat	GAL	8. 000	8. 000
0070	465. 0105	Asphaltic Surface	TON	25. 000	25. 000
0080	502. 0100	Concrete Masonry Bridges	CY	5. 000	5. 000
0090	502. 3200	Protective Surface Treatment	SY	275.000	275. 000
0100	502. 5002	Masonry Anchors Type L No. 4 Bars	EACH	224. 000	224. 000
0110	505. 0600	Bar Steel Reinforcement HS Coated Structures	LB	450. 000	450. 000
0120	509. 0301	Preparation Decks Type 1	SY	3.000	3.000
0130	509. 0302	Preparation Decks Type 2	SY	3.000	3. 000
0140	509. 2000	Full-Depth Deck Repair	SY	1.000	1. 000
0150	509. 2500	Concrete Masonry Overlay Decks	CY	15. 000	15. 000
0160	509. 9005. 5	S Removing Concrete Masonry Deck Overlay (structure) 01. P-09-0711	SY	210. 000	210. 000
0170	517. 1010. \$	S Concrete Staining (structure) 01. P-09-0711	SF	6, 700. 000	6, 700. 000
0180	601. 0411	Concrete Curb & Gutter 30-Inch Type D	LF	115.000	115. 000
0190	602. 0405	Concrete Sidewalk 4-Inch	SF	590.000	590. 000
0200	602. 0505	Curb Ramp Detectable Warning Field Yellow	SF	32. 000	32. 000
0210	611. 8110	Adjusting Manhole Covers	EACH	1. 000	1. 000
0220	619. 1000	Mobilization	EACH	1.000	1.000
0230	625. 0105	Topsoi I	CY	1. 000	1. 000
0240 0250	628. 1504 628. 1520	Silt Fence Silt Fence Maintenance	LF LF	20. 000 20. 000	20. 000 20. 000
0260	628. 1905	Mobilizations Erosion Control	EACH	1. 000	1. 000
0270	628. 1910	Mobilizations Emergency Erosion Control	EACH	1.000	1. 000
0280	631. 1000	Sod Lawn Posts Wood 4x6 Inch V 14 FT	SY	5.000	5. 000
0290 0300	634. 0614 634. 0812	Posts Wood 4x6-Inch X 14-FT Posts Tubular Steel 2x2-Inch X 12-FT	EACH EACH	2. 000 1. 000	2. 000 1. 000
0310	634. 0818	Posts Tubular Steel 2x2-Inch X 18-FT	EACH	2.000	2. 000
0320	637. 2220	Signs Type II Reflective SH	SF	73. 170	73. 170
0330 0340	638. 2602 642. 5001	Removing Signs Type II Field Office Type B	EACH EACH	5. 000 1. 000	5. 000 1. 000
0350	643. 0100	Traffic Control (project) 01. 8996-00-98		1. 000	1. 000
0240	646 0600	Pomoving Payament Markings		247 000	247 000
0360 0370	646. 0600 647. 0566	Removing Pavement Markings Pavement Marking Stop Line Epoxy 18-Inch	LF I F	247. 000 15. 000	247. 000 15. 000
0370	647. 0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	45. 000	45. 000
0390	650. 5000	Construction Staking Base	LF	52. 000	52. 000
0400	650. 5500	Construction Staking Curb Gutter and Curb & Gutter	LF	115. 000	115. 000
0410	650. 9910	Construction Staking Supplemental Control (project) 01. 8996-00-98	LS	1.000	1. 000
0420	650. 9920	Construction Staking Slope Stakes	LF	9. 000	9. 000
0430	690. 0150	Sawi ng Asphal t	LF	77. 000	77. 000
0440	690. 0250	Sawing Concrete	LF	45. 000	45. 000
0450	715. 0502	Incentive Strength Concrete Structures	DOL	500.000	500.000
0460	SPV. 0165	Special 01. Fiber Wrap Reinforcing	SF	2, 600. 000	2, 600. 000

DATE 050	CT15		ESTIMATE	OFQUAN	TITIES
LINE					8996-00-98
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0470	SPV. 0165	Special 02. Concrete Surface Repair	SF	1, 100. 000	1, 100. 000
		Special .			

204.0110	REMOVING	ASPHALTIC	SURFACE	(CATEGORY	0010)

STATION TO STATION	LOCATION	SY	
Sta. 9+30.32 to Sta. 9+53.50 Sta. 10+46.50 to Sta. 10+75	Mainline Mainline	60 65	
TOTAL		125	

204.0150 REMOVING CURB & GUTTER (CATEGORY 0010)

STATI	ON TO ST	[TAT	ION	LOCATION	LF
	9+30.32 9+30.32			RT LT	40 38
ТОТАТ.					78

204.0155 REMOVING CONCRETE SIDEWALK (CATEGORY 0010)

STATION TO STATION	LOCATION	SY	
Sta. 9+30.32 to Sta. 9+45	RT	20	
Sta. 9+30.32 to Sta. 9+53.50	LT	35	
TOTAL		55	

211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING (CATEGORY 0010)

LOCATION	LS
	_
PROJECT 8996-00-98	1

213.0100 FINISH ROADWAY (CATEGORY 0010)

LOCATION	EACH
	_
PROJECT 8996-00-98	1

455.0605 TACK COAT (CATEGORY 0010)

STATION TO STATION	LOCATION	GAL
Sta. 9+30.32 to Sta. 9+53.50 Sta. 10+46.50 to Sta. 10+75	Mainline Mainline	4 4
TOTAL		8

465.0105 ASPHALTIC SURFACE (CATEGORY 0010)

STATION TO STATION	LOCATION	TON
Sta. 9+30.32 to Sta. 9+53.50 Sta. 10+46.50 to Sta. 10+75	Mainline Mainline	12.5 12.5
TOTAL		25

601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D (CATEGORY 0010)

STATION TO STATION	LOCATION	LF
Sta. 9+30.32 to Sta. 9+53.50 Sta. 9+30.32 to Sta. 9+53.50 Sta. 10+46.50 to Sta. 10+75	RT LT RT	43 38 34
TOTAL		115

602.0405 CONCRETE SIDEWALK 4-INCH (CATEGORY 0010)

STATION TO STATION	LOCATION	SF
Sta. 9+30.32 to Sta. 9+53.50 Sta. 9+30.32 to Sta. 9+53.50 Sta. 10+46.50 to Sta. 10+65	RT LT RT	235 315 40
TOTAL		590

602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW (CATEGORY 0010)

STATION TO STATION	LOCATION	SF
Sta. 9+33	25' RT	8
Sta. 9+33	23' LT	8
Sta. 9+39	10' RT	8
Sta. 9+39	13' LT	8
TOTAL		32

611.8110 ADJUSTING MANHOLE COVER (CATEGORY 0010)

STATION	LOCATION	EACH
Sta. 9+45	22' LT	1

619.1000 MOBILIZATION

LOCATION	EACH
PROJECT 8996-00-98 (CATEGORY 0010) PROJECT 8996-00-98 (CATEGORY 0020)	0.1
TOTAL	1

625.0105 TOPSOIL (CATEGORY 0010)

STATION TO STATION	LOCATION	CY
Sta. 10+65 to Sta. 10+72.50 Undistributed	RT	0.8
TOTALS		1

SILT FENCE (CATEGORY 0010)

STATION TO STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
Sta. 10+63 to Sta. 10+75 Undistributed	RT	15 5	15 5
TOTALS		20	20

MOBILIZATIONS EROSION CONTROL & EMERGENCY EROSION CONTROL (CATEGORY 0010)

	628.1905	628.1910
	MOBILIZATIONS	MOBILIZATIONS EMERGENCY
	EROSION CONTROL	EROSION CONTROL
LOCATION	EACH	EACH
PROJECT 8996-00-98	1	1

631.1000 SOD LAWN (CATEGORY 0010)

STATION TO STATION	LOCATION	SY
Sta. 10+65 to Sta. 10+72.50 Undistributed	RT	4
TOTALS		5

642.5001 FIELD OFFICE TYPE B (CATEGORY 0010)

642.5001 FIELD OFFICE TYPE 1	B (CATEGORY 0010)	643.0100 TRAFFIC CONTRO	OL (CATEGORY 0010)
LOCATION	EACH	LOCATION	EACH
PROJECT 8996-00-98	1	PROJECT 8996-00-98	1

CONSTRUCTION STAKING

CATEGORY	LOCATION	650.5000 BASE LF	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.9910 SUPPLEMENTARY CONTROL LS	650.9920 SLOPE STAKES LF
0010	Sta. 9+30.32 to Sta. 10+75	52	115	1	9
0020	P-09-0711				

690.0150 SAWING ASPHALT (CATEGORY 0010)

STATION	LOCATION	LF
Sta. 9+30.32 Sta. 10+75	Mainline Mainline	52 25
TOTAL		77

690.0250 SAWING CONCRETE (CATEGORY 0010)

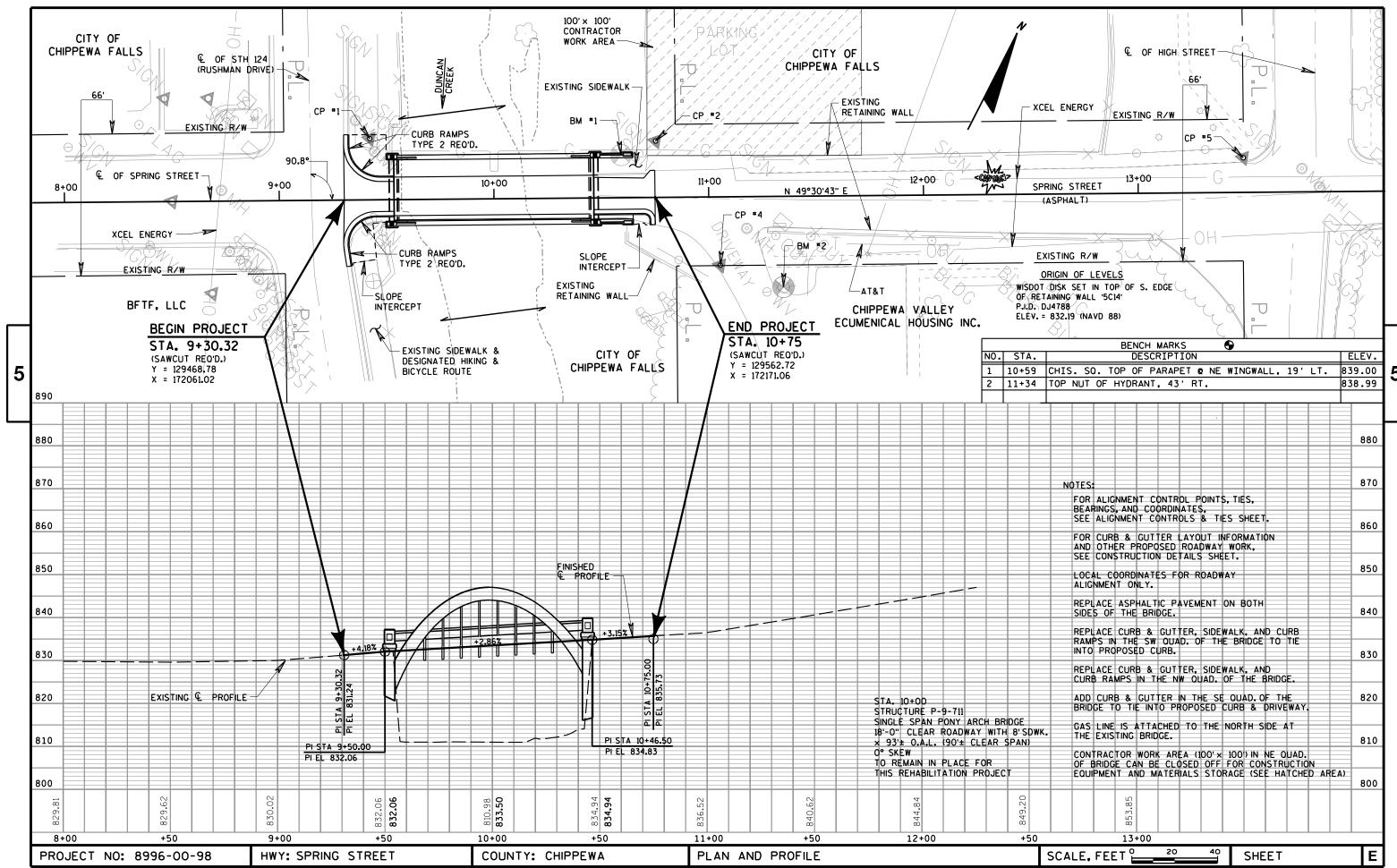
STAT	ION TO ST	TATION	LOCATION	LF
	9+30.32 9+30.32		RT LT	19 26
TOTAI				45

3

	PAVEMENT N	IARKING	
	646.0600	647.0566	647.0766
	REMOVING	STOP LINE EPOXY	CROSSWALK
	PAVEMENT	18-INCH	EPOXY 6-INCH
	MARKINGS	(WHITE)	(WHITE)
LOCATION	LF	LF	LF
STA. 9+00 TO STA. 14+00	247	15	45

				F	PERMANENT SI	IGNING			
				637.2220	634.0614	634.0812	634.0818	638.2602	
					POSTS WOOD	POSTS TUBULAR	POSTS TUBULAR	REMOVING	
				SIGNS TYPE II	4X6-INCH	STEEL 2X2-INCH	STEEL 2X2-INCH	SIGNS	
				REFLECTIVE SH	X 14-FT	X 12-FT	X 18-FT	TYPE II	
SIGN NO.	SIGN CODE*	WIDTH (IN)	HEIGHT (IN)	SF	EACH	EACH	EACH	EACH	NOTES
1	R5-1	30	30	6.25				2	MOUNT TO EXISTING SIGN POLE
2	R6-7	24	30	5.00					MOUNT TO EXISTING SIGN POLE W/ SIGN NO
3	R5-1	30	30	6.25	1				
4	R6-7	24	30	5.00					MOUNT TO SIGN STRUCTURE
5	R3-1	24	24	4.00				2	
6	R3-2	24	24	4.00		1			
7	R5-1A	36	24	6.00			1		
	W6-3	36	36	9.00					MOUNT W/ SIGN NO. 7
	W16-9P	24	8	1.33					MOUNT W/ SIGN NO. 7
8	R5-1A	36	24	6.00			1		
	W6-3	36	36	9.00					MOUNT W/ SIGN NO. 8
	W16-9P	24	8	1.33					MOUNT W/ SIGN NO. 8
9								1	
10	R6-6	24	30	5.00					MOUNT TO WOOD POLE
11	R6-6	24	30	5.00	1				
				73.17	2	1	2	5	

^{*}ALL SIGNS ARE SIGN SIZE 2S

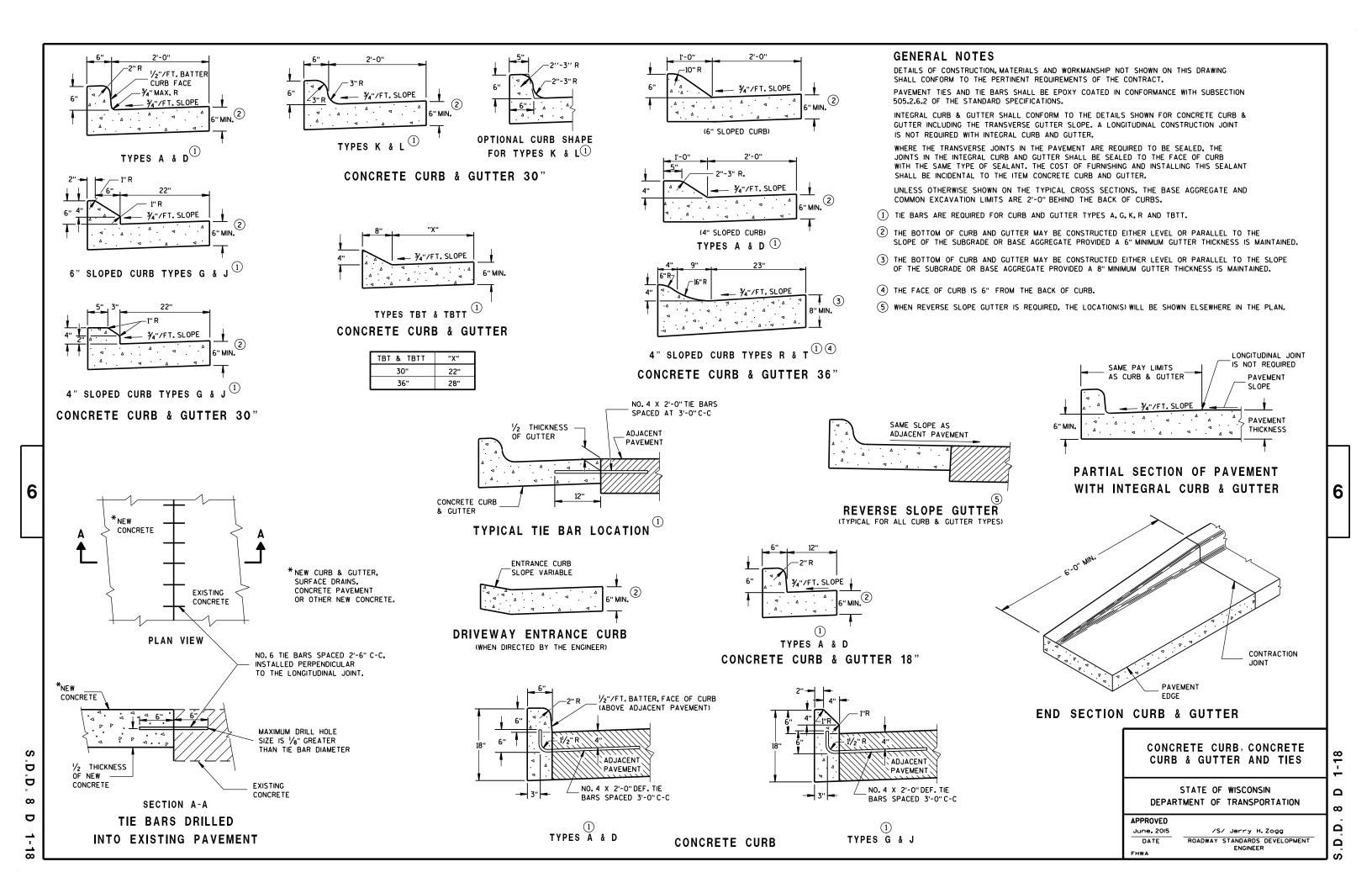


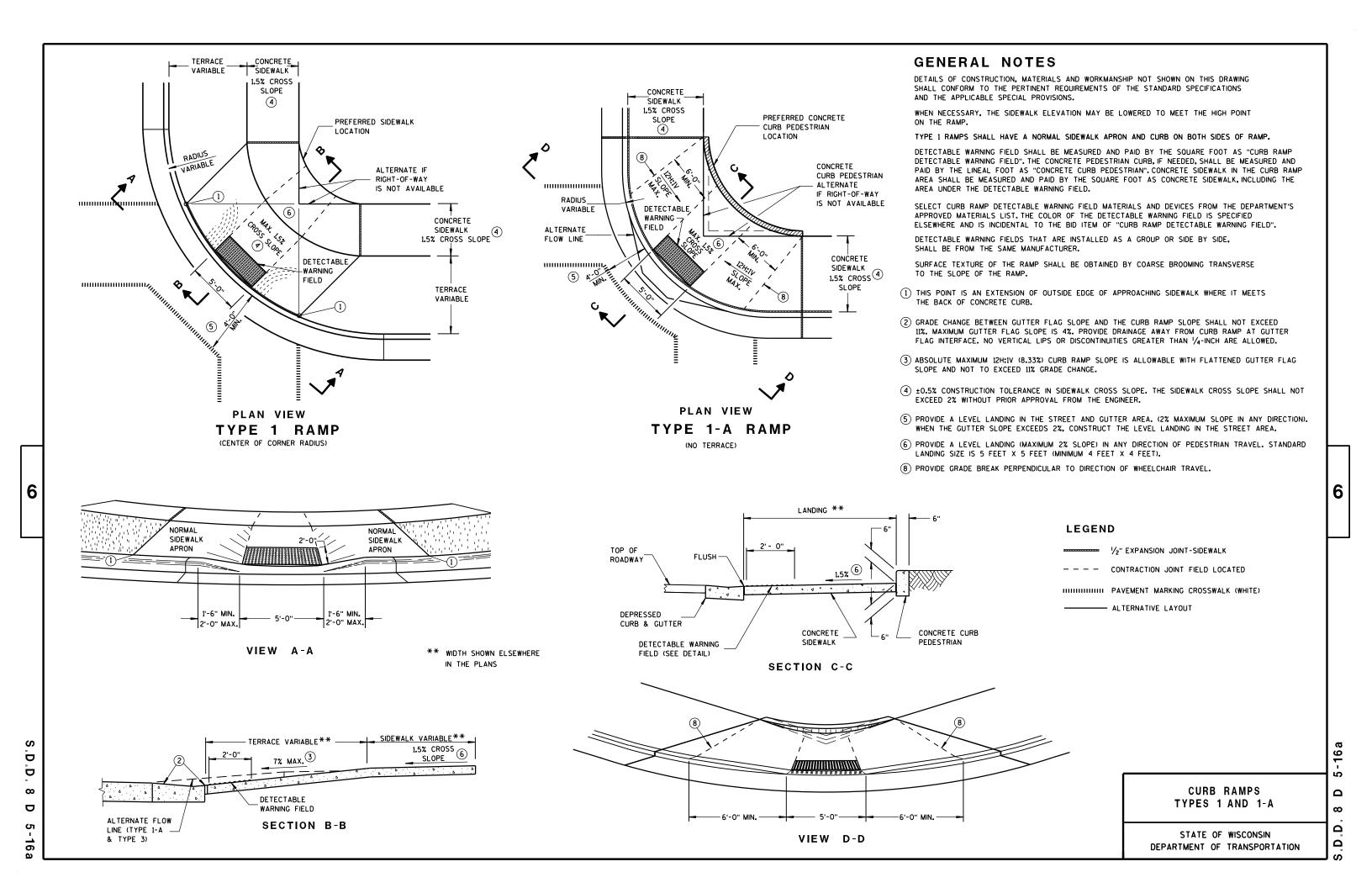
BRIDGE

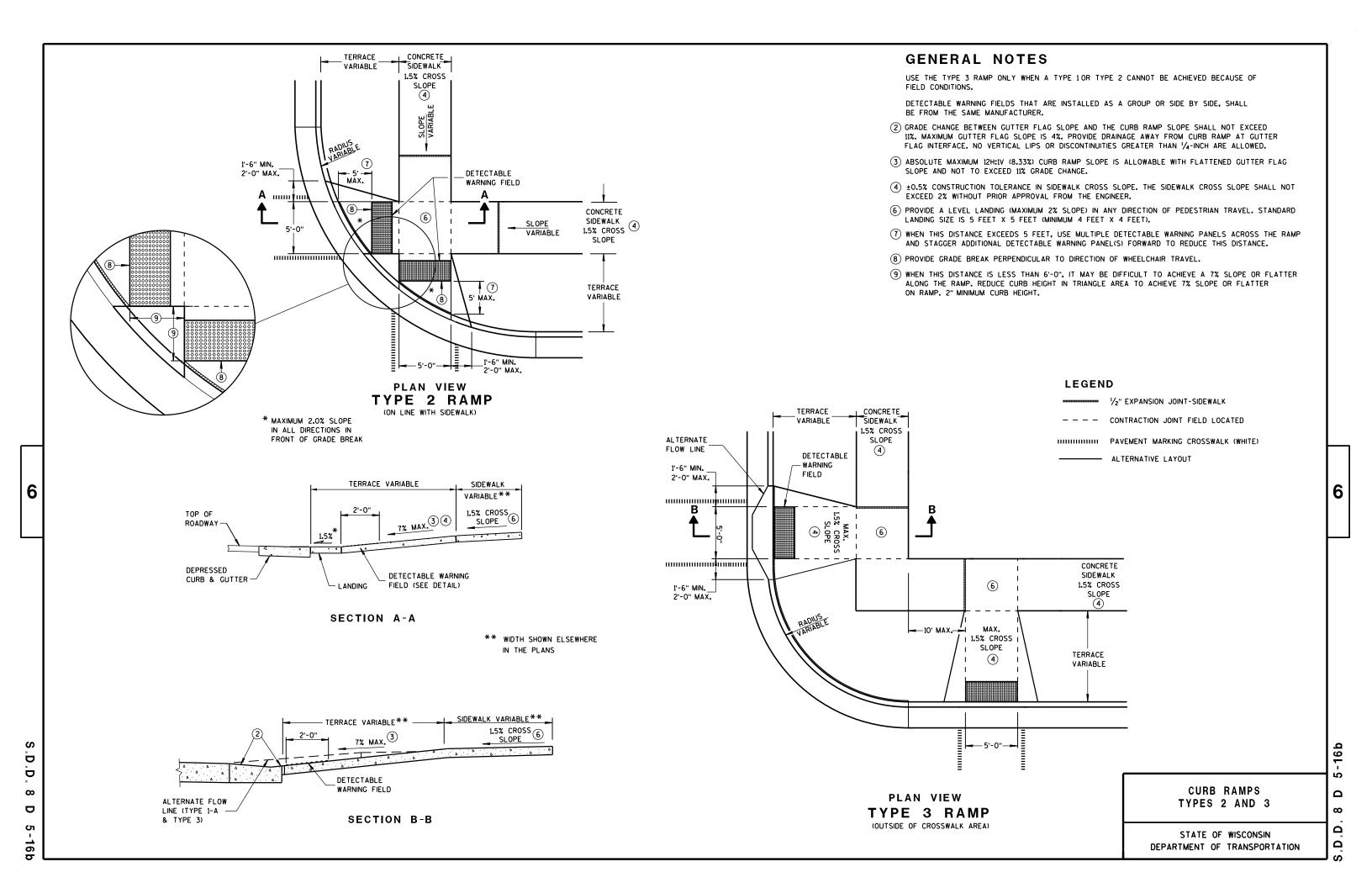
Standard Detail Drawing List

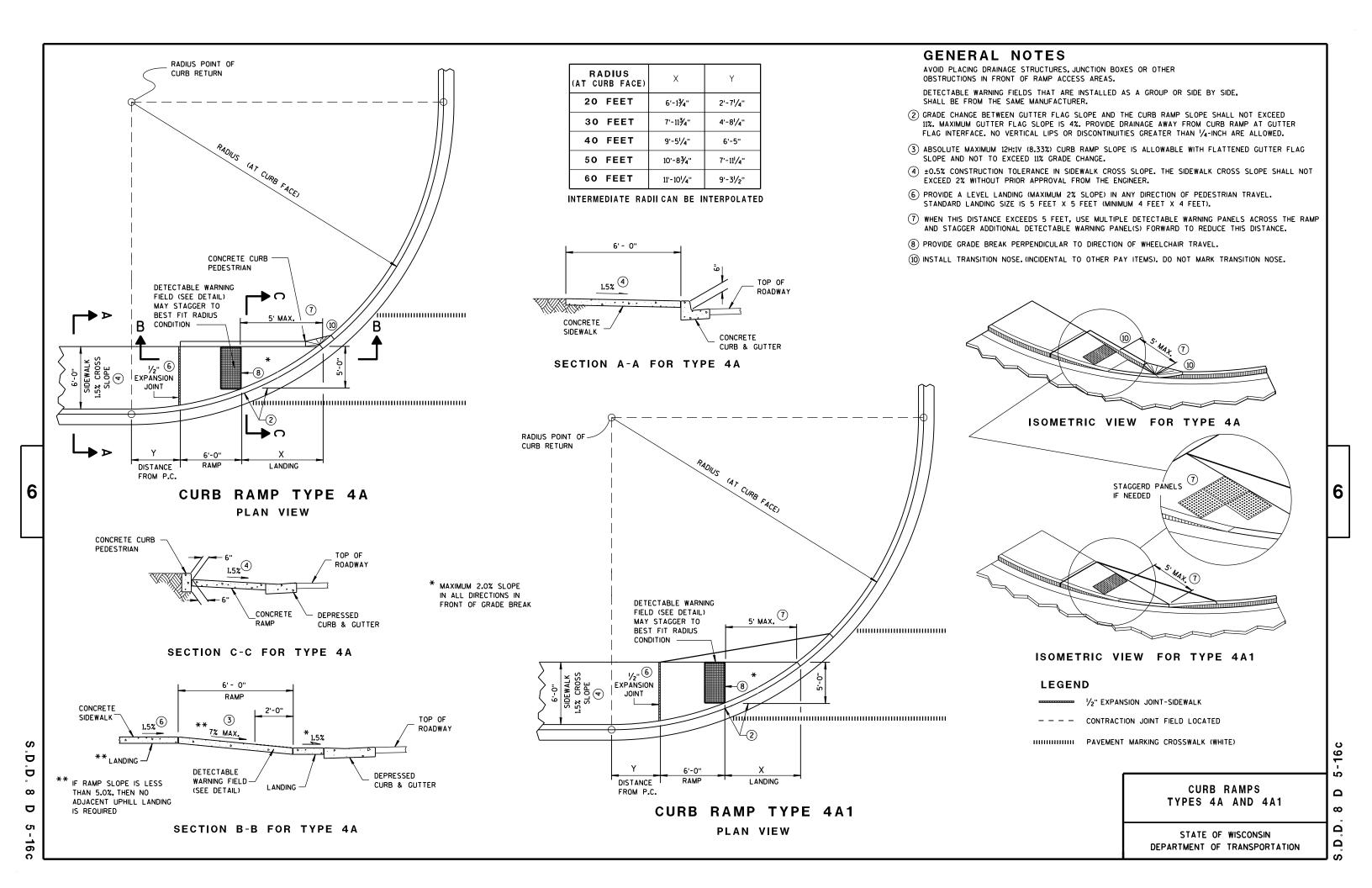
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E09-06	SILT FENCE
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-05A	TRAFFIC CONTROL, LANE CLOSURE

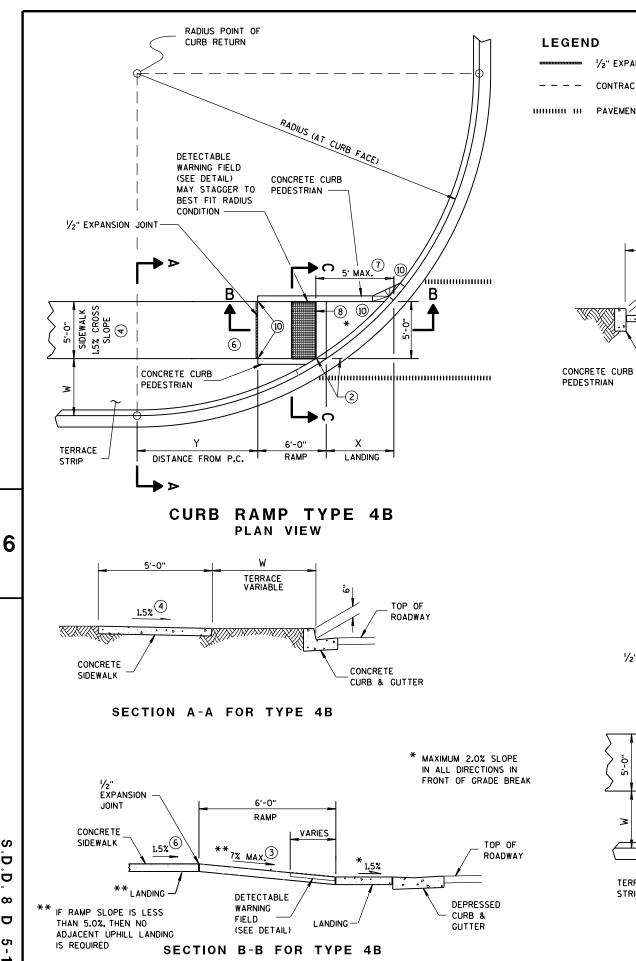
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D

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D

16 d

W = 5' - 0" 7' - Ø" 3' - Ø" W = 4' - Ø" W = 6' - 0" RADIUS LEGEND AT CURB FACE ■ ½" EXPANSION JOINT-SIDEWALK 20 FEET 4'-81/2" 3'-7" 3'-11/2" 4'-61/2" 4'-1" 7'-23/4" 8'-31/2" 9'-21/2" 5'-51/2" 6'-0" CONTRACTION JOINT FIELD LOCATED 30 FEET 6'-51/2" 5'-91/4" 5'-21/2" 4'-8¾" 7'-31/4' 8'-11'/2" 10'-7" 12'-0" 13'-31/4" HIHHHH HI PAVEMENT MARKING CROSSWALK (WHITE) 40 FEET 8'-91/2" 9'-21/2" 11'-5'/4" 13'-41/2" 15'-3/4" 16'-71/4" 50 FEET 7'-61/2" 6'-11¾" 19'-6'/4" 11'-3/4" 15'-91/2"

10'-¾"

GENERAL NOTES

12'-8¾"

11'-2'/2"

60 FEET

TOP OF

ROADWAY

TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

5'-0" RAMP

VARIES

0 TO 6"

1.5%

SECTION C-C FOR TYPE 4B

INTERMEDIATE RADII CAN BE INTERPOLATED

7'-101/2"

22'-11/2"

20'-1¾"

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

17'-113⁄4"

8'-5¾"

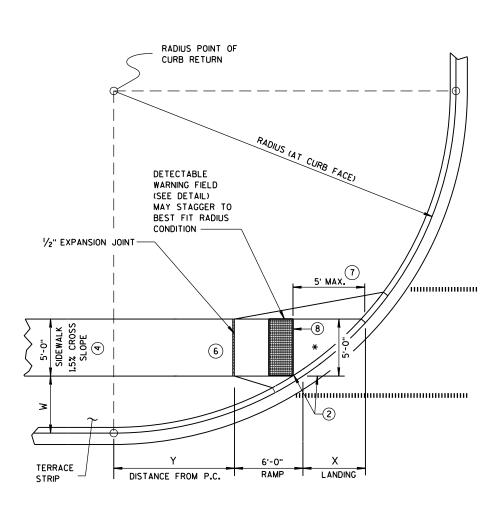
(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

9'-21/4"

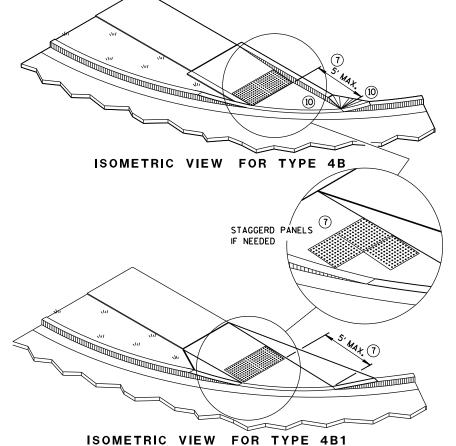
- (3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- 4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE, THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 6 PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

15'-61/2"

- (7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.
- (8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (I) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1 PLAN VIEW

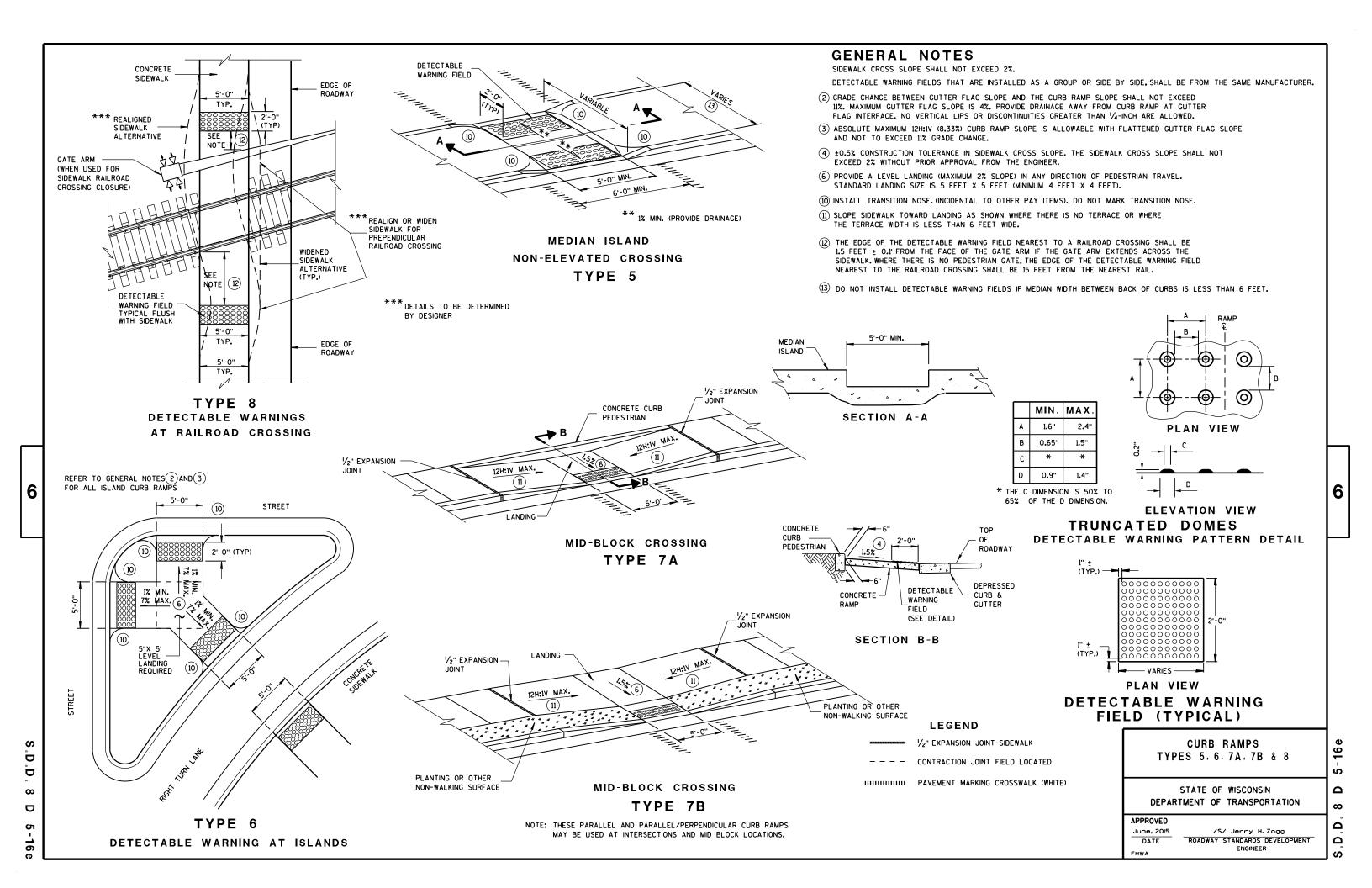


CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- \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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

6

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D.D. 8 E 9



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

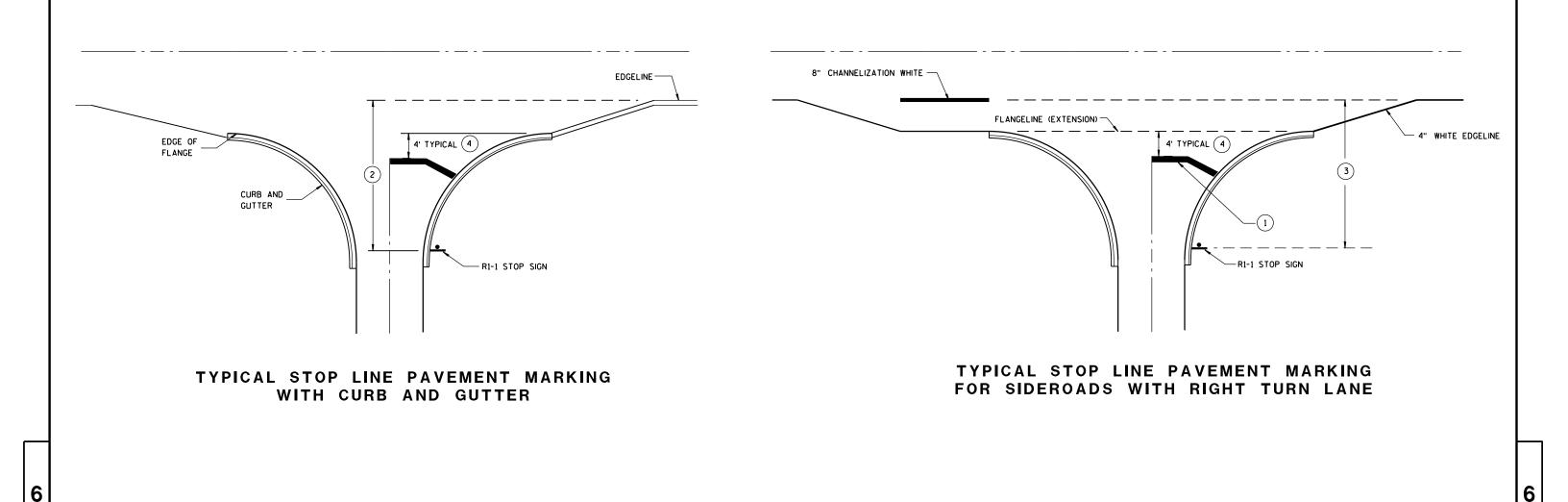
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

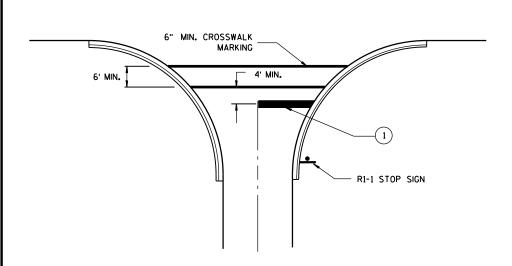
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

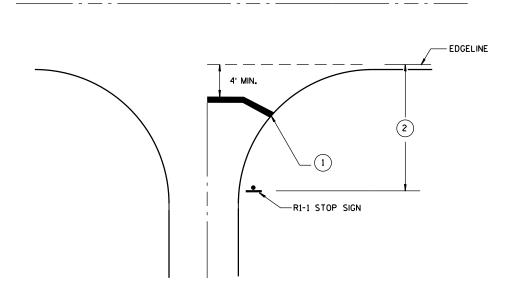
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TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- 2 IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

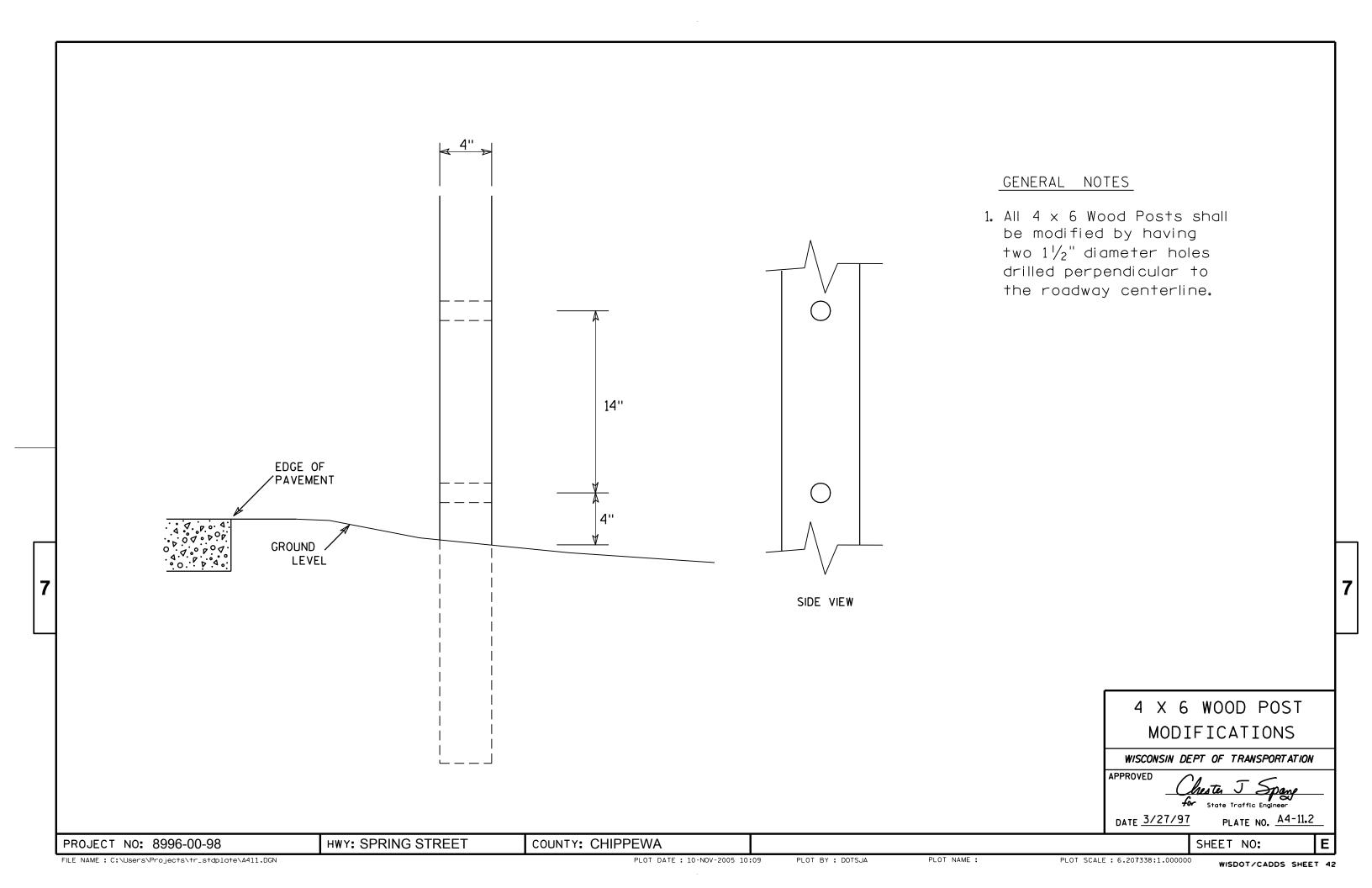
APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

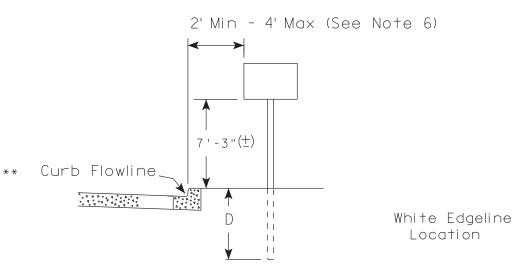
S.D.D.

33

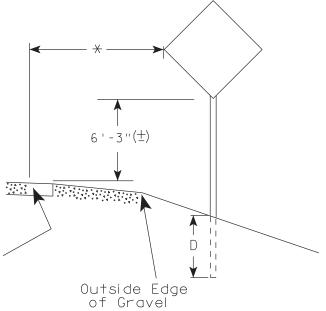
GENERAL NOTES LEGEND THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING OPERATION. SIGN ON PERMENENT SUPPORT IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. LEFT LANE. TRAFFIC CONTROL DRUM ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST FLASHING ARROW BOARD "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" TYPE "A" WARNING LIGHT (FLASHING) THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS. * X -X REMOVING PAVEMENT MARKING CROSSOVER MANEUVER. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS * THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL. DIRECTION OF TRAFFIC 1500 FEET IN FRONT OF DRUMS. FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. 6 6 WORK CLOSED CLOSED I MILE 1500 F XX м.Р.н 36"×36' IF NEEDED. USE ONLY TYPE III BARRICADE IF DESIGN SPEED IS TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE SPACED EVERY 1/4 MILE. 10 MPH BELOW 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) POSTED SPEED. 100' \Rightarrow \Rightarrow \Rightarrow WORK AREA 50' 350' 500' MIN. - 800' DESIRABLE 575 TAPER 500 50 MPH - 600' 55 MPH - 660' 2600' 1600' 1000' 65 MPH - 780' TRAFFIC CONTROL, 2 D LANE CLOSURE 5 DRUMS SPACED @ 10' INTERVALS AS 2 Ö NEEDED IN FRONT OF ARROW BOARD 15 Δ STATE OF WISCONSIN ADVANCED WARNING AREA TRANSITION AREA **BUFFER SPACE** DEPARTMENT OF TRANSPORTATION D **APPROVED** /S/ Travis Feltes N Feb. 2015 STATE TRAFFIC ENGINEER OF DESIGN Ω FHWA



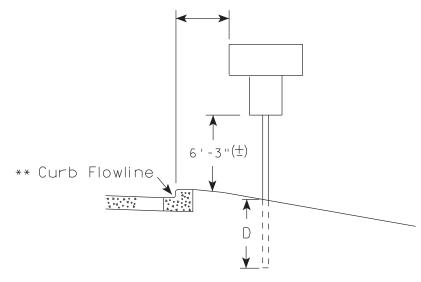
URBAN AREA



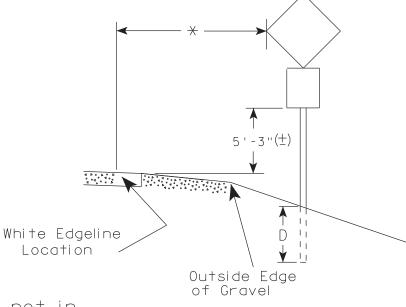
RURAL ARFA (See Note 2)



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



measured from the flow line.



** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

- 1. Signs wider than 4 feet, 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" (+) or 6'-3" (+) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3''(+).
- 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 stop signs (R1-1F) shall be mounted at a height of 5'-3" (+) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of $2'-3''(\pm)$. The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

For State Traffic Engineer

DATE <u>9/3</u>0/13

PLATE NO. A4-3.18

PROJECT NO: 8996-00-98

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

HWY: SPRING STREET

COUNTY: CHIPPEWA

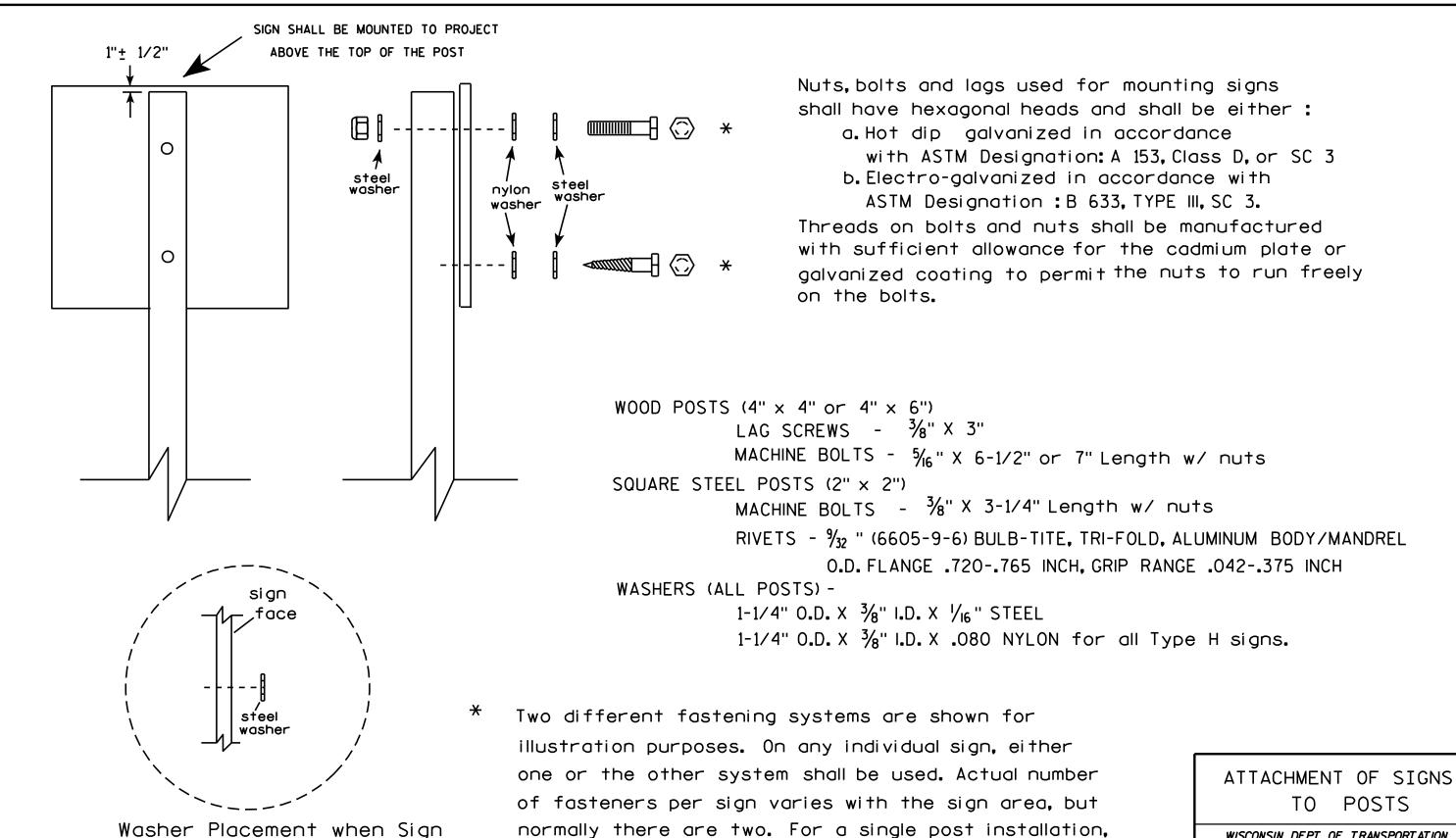
PLOT NAME :

WISDOT/CADDS SHEET 42

PLOT DATE: 30-SEP-2013 13:25

PLOT BY: mscj9h

PLOT SCALE: 99.237937:1.000000



normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

WISCONSIN DEPT OF TRANSPORTATION

Matther For State Traffic Engineer

SHEET NO:

DATE 3/23/10

PLATE NO. 44-8.7

PROJECT NO: 8996-00-98

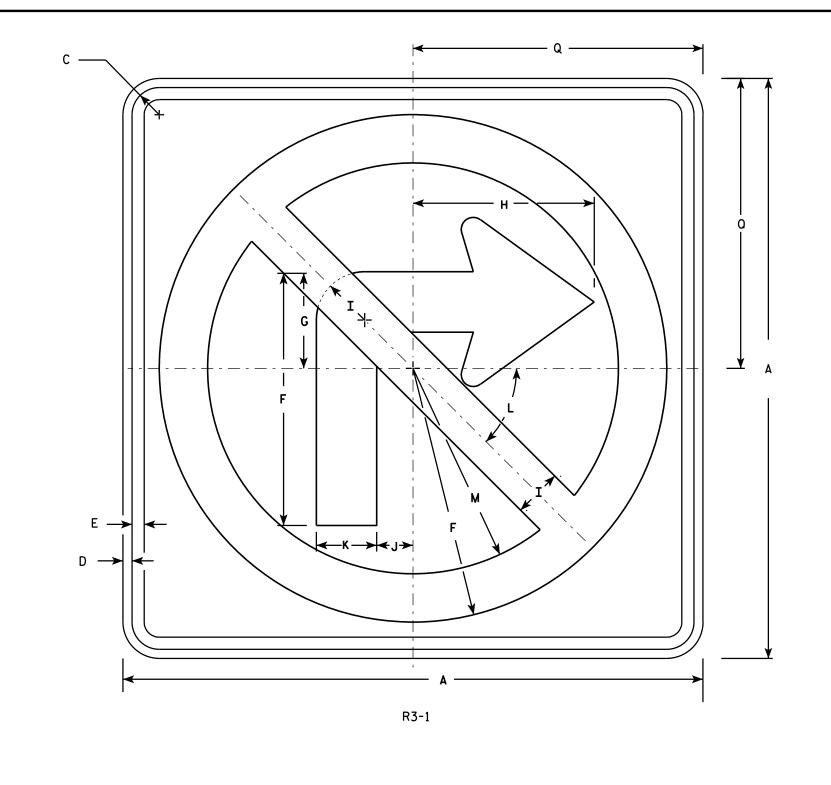
HWY: SPRING STREET

Has Other Than Type H or

Type F Face

COUNTY: CHIPPEWA

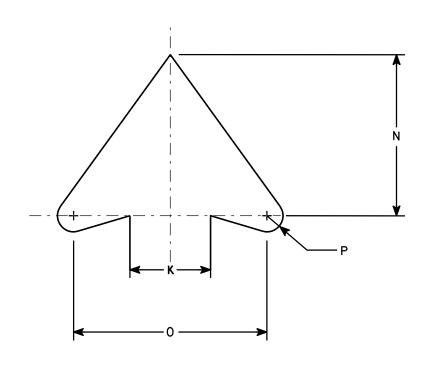
PLOT DATE: 23-MAR-2010 10:15 PLOT BY: ditjph



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

Background - White Message - See note 4

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



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 ½	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45 °	8 1/2	5	6	1/2	12										4.0
2M	36		1 1/8	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 1/8	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 1/8	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0
PR0	JECT	NO:	8996-0	00-98			1	HWY: SF	PRIN	G STR	EET		СО	UNTY:	CHIF	PEWA	۸										

STANDARD SIGN R3-1

WISCONSIN DEPT OF TRANSPORTATION

DATE 12/08/10 PLATE NO. R3-1.5

SHEET NO:

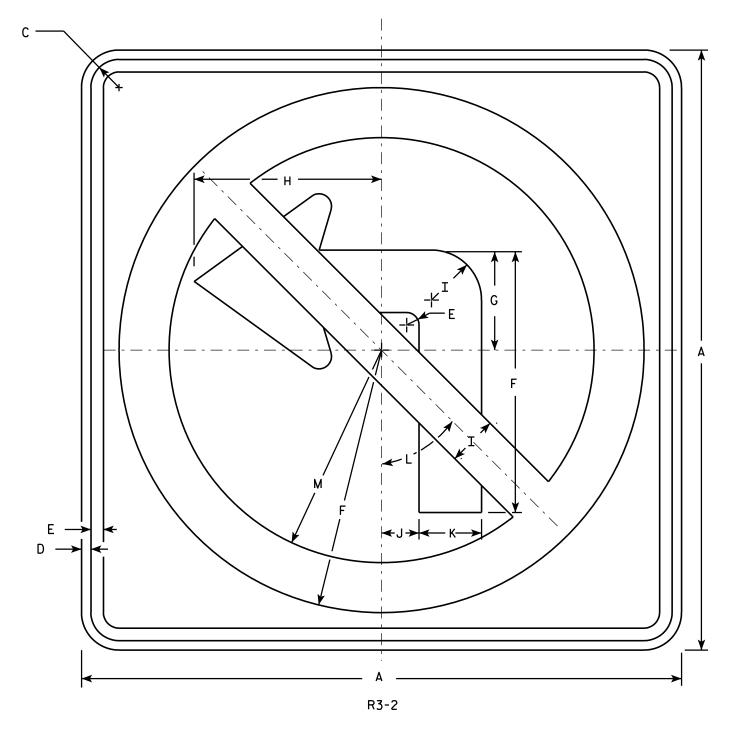
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R31.DGN

PLOT DATE: 08-DEC-2010 13:23

PLOT NAME :

PLOT BY: dotsja

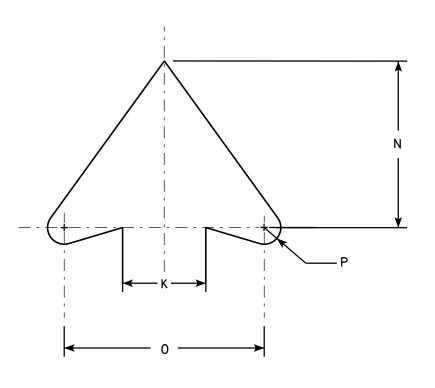
PLOT SCALE: 5.959043:1.000000



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

Background - White Message - See note 4

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



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Are
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.

COUNTY: CHIPPEWA

HWY: SPRING STREET

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer PLATE NO. R3-2.10

DATE 12/08/10

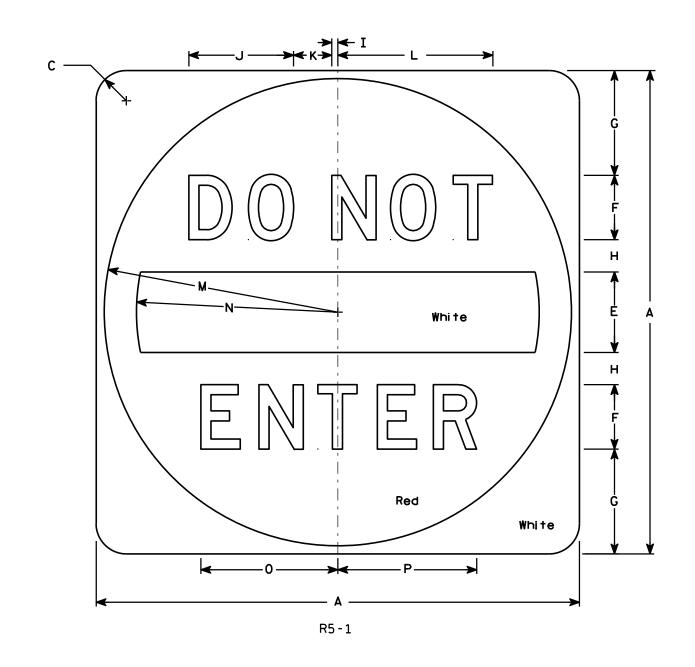
SHEET NO:

PROJECT NO: 8996-00-98

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

Background - See detail Message - White - Type H Reflective

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



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	Ν	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 %	14 1/2	23 ½	20	12 3/4	12 1/8											16.0
PRO	JECT	NO:	8996-0	0-98			нм	VY: SF	PRING	STRE	ET		COUN	TY: C	HIPP	EWA											

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

TE 12/17/10 PLATE NO. _R5-1.15

DATE 12/17/10

SHEET NO:

PROJECT NO: 8996-00-98

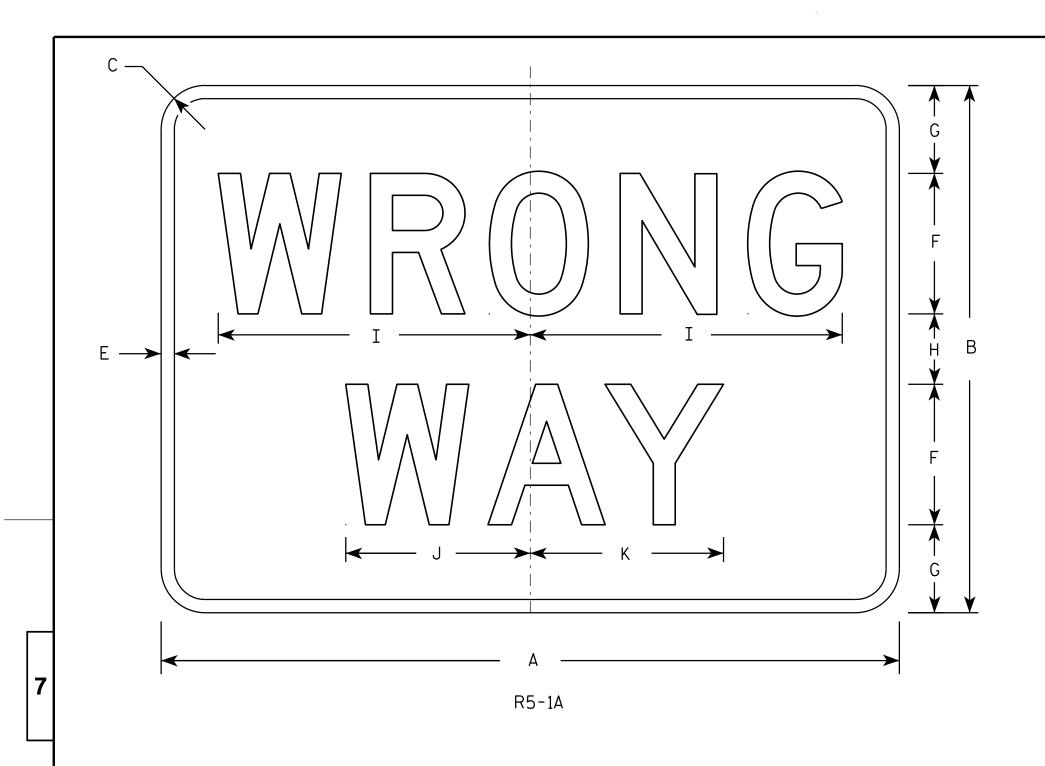
FILE NAME: C:\Users\PROJECTS\tr_stdplate\R51.DGN

PLOT DATE: 17-DEC-2010 12:11

PLOT BY : dotsja

PLOT NAME :

PLOT SCALE: 5.959043:1.000000



HWY: SPRING STREET

NOTES

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

Background - Red Message - White

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

SIZ	E	Α	В	С	D	Ε	F	G	H	I	J	K	L	M	N	0	Р	0	R	S	T	J	v	W	Х	Y	Z	Area sq. ft.
1		30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 %																3.75
25	<u>; </u>	36	24	2		5/8	6	4 1/2	3	13 1/4	7 1/8	8 1/4																6.00
21	1	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3		42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4		42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5		42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11													·			8.75

COUNTY: CHIPPEWA

STANDARD SIGN R5-1A

WISCONSIN DEPT OF TRANSPORTATION

Matther R Raud
For State Traffic Engineer PLATE NO. R5-1A.2 DATE 12/17/10

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R51A.DGN

PROJECT NO: 8996-00-98

PLOT DATE: 17-DEC-2010 12:42

PLOT NAME :

PLOT BY: dotsja

PLOT SCALE: 5.462457:1.000000



<u>NOTES</u>

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

Background - White Message - Black

- 3. Message Series D except Line 1 is 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.

2S 30 1 1/8 3/8 3 1/2 2 1/2 9 1/8 8 1/8 8 1/2 24 1/2 6 2M 1 3/8 1/2 3 1/4 2 3/4 12 1/4 10 1/2 11 1/2 30 36 3 36 1 3/8 1/2 5/8 5 1/4 3 1/4 15 1/4 12 3/4 13 3/8 48 4 1 3/8 1/2 5 1/4 3 1/4 15 1/4 12 3/4 13 3/8 36 48 5

COUNTY: CHIPPEWA

HWY: SPRING STREET

STANDARD SIGN R6-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 11/2/10

11/2/10 PLATE NO. R6-6.1

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R66.dgn

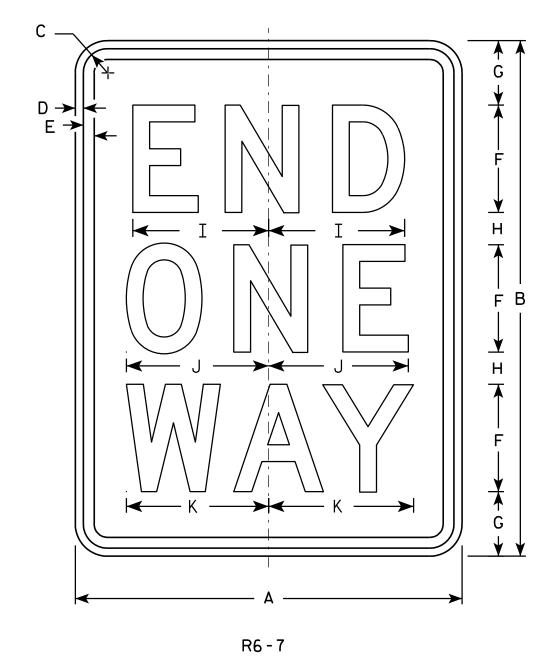
PROJECT NO: 8996-00-98

PLOT DATE: 02-NOV-2010 14:36

PLOT NAME :

PLOT BY: ditjph

PLOT SCALE: 4.469282:1.000000



- 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.

2S 3/8 3 1/2 2 1/2 8 8 1/8 8 1/2 24 30 | 1 1/8 1/2 6 2M 36 1 ³/₈ 1/2 3 1/4 2 3/4 10 1/8 10 1/2 11 1/2 30 3 1 3/8 5 1/4 3 1/4 12 5/8 12 3/4 13 3/8 5/8 36 1/2 10 48 4 48 | 1 3/8 1/2 5 1/4 3 1/4 | 12 3/8 | 12 3/4 | 13 3/8 36 5 HWY: SPRING STREET

COUNTY: CHIPPEWA

STANDARD SIGN R6 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-7.1

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R67.dgn

PROJECT NO: 8996-00-98

PLOT DATE: 02-NOV-2010 14:37

PLOT NAME :

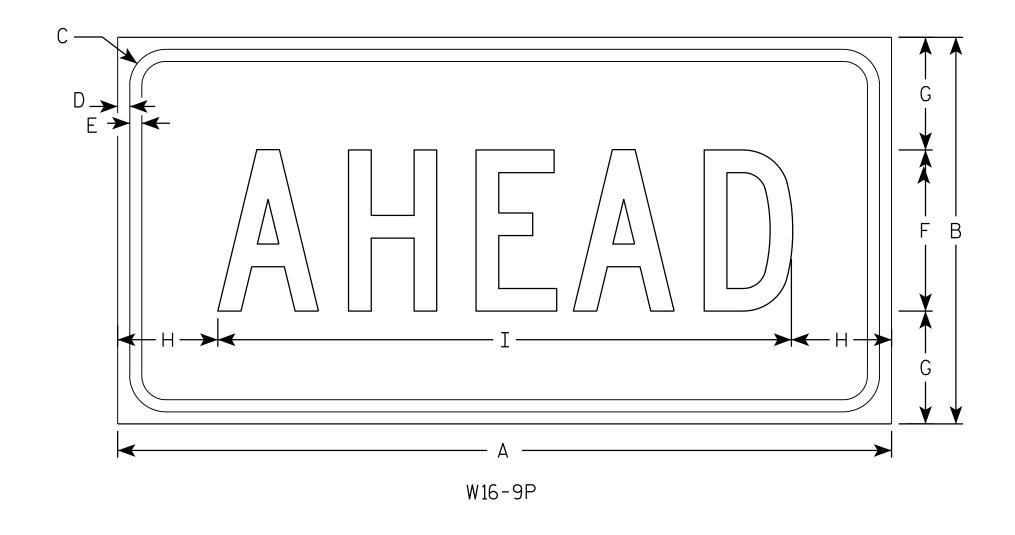
PLOT BY: ditjph

PLOT SCALE: 4.469282:1.000000

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

Background - Yellow Message - Black

- 3. 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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Areg sq. ft.
1																											
2S	24	12	1 1/8	3%	3%	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 ¾																		8.0
5																											
PR0.	ECT	CCT NO: 8996-00-98												Y: CI	HIPPE	WA											

STANDARD SIGN W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 12/28/10

PLATE NO. W16-9P.6

SHEET NO:

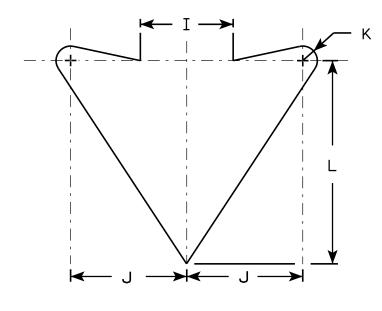
PLOT NAME :

<u>NOTES</u>

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

Background - Yellow Message - Black

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



ARROW DETAIL

PLOT NAME :

Z Area	Y	X	W	٧	U	T	S	R	0	Р	0	N	М	L	K	J	I	H	G	F	E	D	С	В	Α	SIZE
6.25													5 %	8 3/4	5/8	5	4	3 %	1	10 1/2	5/8	1/2	1 3/8		30	1
9.0													6 3/4	10 1/2	3/4	6	5	4 1/4	1	12	3/4	5/8	1 5/8		36	2S
9.0													6 3/4	10 1/2	3/4	6	5	4 1/4	1	12	3/4	5/8	1 5/8		36	2M
																										3
16.0													9	14	1	8	6	6	1	15 1/2	1	3/4	2 1/4		48	4
16.0													9	14	1	8	6	6	1	15 1/2	1	3/4	2 1/4		48	5
<u>_</u>											HIPPI		<u> </u>		1	_		6 WY: SP	1	15 1/2	1	, .	8996-0			

W6-3

STANDARD SIGN W6 - 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

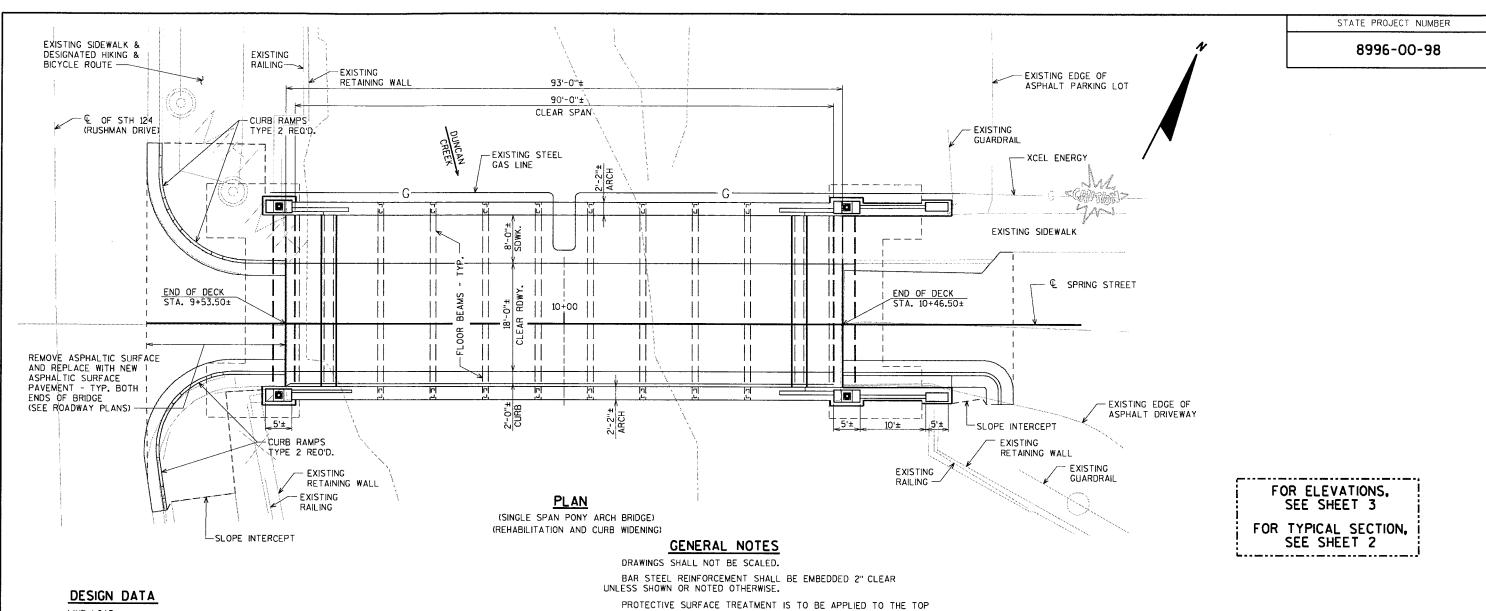
DATE <u>03/12/13</u> PLATE NO. W6-3.10 SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN

PLOT DATE: 12-MAR-2013 14:11

PLOT BY: mscsja

PLOT SCALE: 6.202372:1.000000



LIVE LOAD: DESIGN LOADING: HS-20 INVENTORY RATING: HS-11 OPERATING RATING: HS-18 LOAD POSTING: 40 TONS

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY - $_{-f_{c}^{\prime}} = 4.000 \text{ p.s.i.}$ HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)____ $_{f_y} = 60,000 \text{ p.s.i.}$

TRAFFIC DATA:

DATE: DATE: DATE:

CHECKED BY: BACK CHECKED E CDRRECTED BY:

8

A.D.T. = 510 (2016) A.D.T. = 620 (2036) R.D.S. = 25 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID NUMBER	BID ITEMS	AMOU	NT
502.0100	CONCRETE MASONRY BRIDGES	5	CY
502.5002	MASONRY ANCHORS TYPE L NO. 4 BARS	224	EACH
502.3200	PROTECTIVE SURFACE TREATMENT	275	SY
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	450	LB
509.0301	PREPARATION DECKS TYPE 1	3	SY
509.0302	PREPARATION DECKS TYPE 2	3	SY
509.2000	FULL-DEPTH DECK REPAIR	1	SY
509.2500	CONCRETE MASONRY OVERLAY DECKS	15	CY
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY P-09-0711	210	SY
517.1010.S	CONCRETE STAINING P-09-0711	6,700	SF
SPV.0165.01	FIBER WRAP REINFORCING	2,600	SF
SPV.0165.02	CONCRETE SURFACE REPAIR SPECIAL	1,100	SF

OF THE DECK, CURB FACES, TOP OF CURB, AND TOP OF SIDEWALK.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1"

THE EXISTING CONCRETE OVERLAY, ESTIMATED TO BE 2-INCHES THICK, SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY P-09-0711".

THE NEW PROFILE GRADE LINE SHALL MATCH THE EXISTING PROFILE. THE TOP OF EXISTING DECK ELEVATIONS SHALL BE DETERMINED FROM A FIELD SURVEY AT LOCATIONS DEEMED NECESSARY FOR RE-ESTABLISHING THE PROFILE. THE OVERLAY THICKNESS SHALL MATCH THE THICKNESS OF THE EXISTING OVERLAY THAT IS REMOVED IN ORDER TO MAINTAIN ACCURATE RATINGS.

ALL EXISTING CONCRETE WILL BE STAINED WHITE, FEDERAL STANDARD COLOR NUMBER 37886 (WHITE) EXCEPT SIDEWALK, UNDERSIDE OF DECK, AND WHERE FIBER WRAP REINFORCING IS APPLIED.

FIBER WRAP REINFORCING SHALL BE APPLIED TO THE CONCRETE STRUCTURAL ELEMENTS OF THE EXISTING STRUCTURE AS SHOWN IN THESE PLANS AND IN ACCORDANCE WITH THE "FIBER WRAP REINFORCING" SPECIAL PROVISION. THE CONCRETE STRUCTURAL ELEMENTS INCLUDE THE ARCHES AND HANGERS. THE FIBER WRAP REINFORCING WILL BE PAINTED WHITE USING ACRYLIC PAINT, FEDERAL STANDARD COLOR 37886 (WHITE).

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENT IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY, DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR" AND "CONCRETE SURFACE REPAIR" OUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION AND DETERMINATION OF ALL REPAIR LOCATIONS WITH THE ENGINEER, DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

CRACKS AND JOINTS IN THE OVERLAY SHALL BE SEALED WITH A LOW-VISCOCITY CRACK SEALER (SEE STANDARD SPEC. SECTION 502.2.11 CRACK SEALER. COST IS INCLUDED IN THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

MATERIALS, EQUIPMENT, ETC. SHALL NOT BE STOCKPILED/STORED ON THE BRIDGE DECK WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

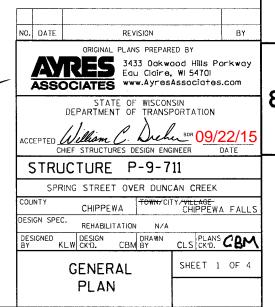
LIST OF DRAWINGS

- GENERAL PLAN
- 2. TYPICAL SECTION & DETAILS
- 3. CONCRETE SURFACE REPAIR DETAILS 4. STRUCTURE STAINING & FIBER WRAP DETAILS

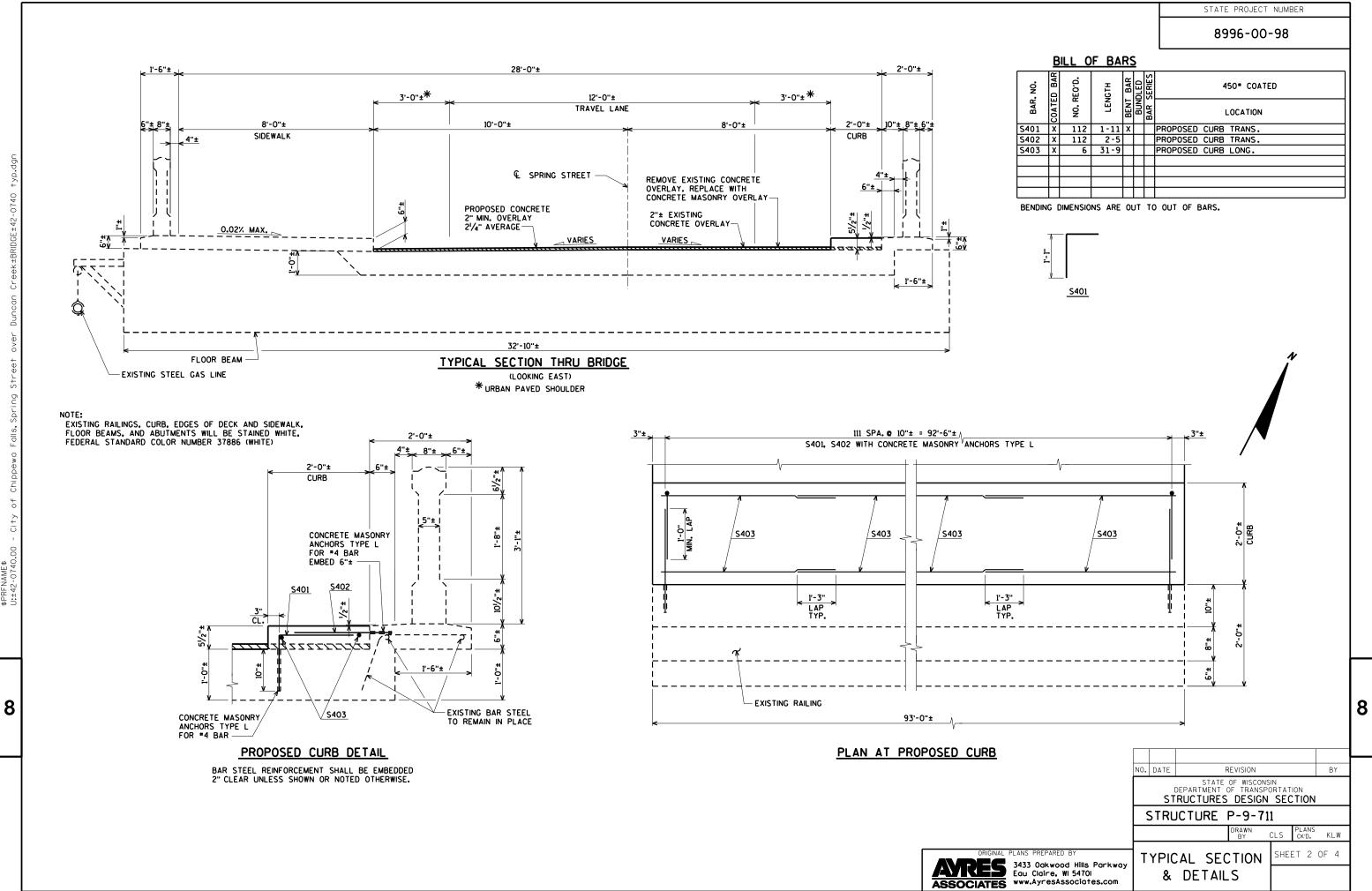
BURNESS CONS "IGCONS" CHRISTOPHER B. McMAHON SONAL ENG ONAL PROPERTY 7/16/15

> BRIDGE OFFICE CONTACT: WILLIAM DREHER (608)-266-8489

CONSULTANT CONTACT: CHRIS MCMAHON (715)-834-3161



7/16/2015



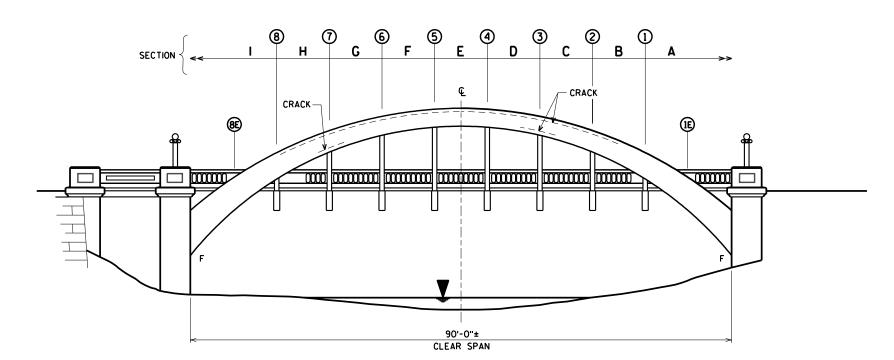
ICRETI		

SECTION	CONCRETE ELEMENT	DESCRIPTION	SF
Α	VERTICALS IN RAILING	4 VERTICALS NEEDING REPAIR	4
1	HANGER	NO CRACKS	0
1-8	FLOOR BEAM	ENDS ARE DISTRESSED WITH SPALLS AND CRACKS	60
8E	FLOOR BEAM	NO CRACKS	0
В	VERTICALS IN RAILING	3 VERTICALS NEEDING REPAIR	3
2	HANGER	CRACKED INSIDE AND OUTSIDE FACES	10
в-н	ARCH	CRACKED ALONG INSIDE FACE TOP	70
C	VERTICALS IN RAILING	NO CRACKS	0
3	HANGER	CRACKED ON INSIDE FACE TOP	5
C-D	ARCH	CRACKED ON INSIDE FACE BOTTOM	5
C-D	SIDEWALK	SPALLED ON INSIDE FACE	5
D	VERTICALS IN RAILING	NO CRACKS	0
4	HANGER	CRACKED INSIDE FACE	10
D-E	SIDEWALK	SPALLED ON INSIDE FACE	1
E	VERTICALS IN RAILING	2 VERTICALS NEEDING REPAIR	1
5	HANGER	CRACKED ON OUTSIDE FACE TOP	5
F	VERTICALS IN RAILING	3 VERTICALS NEEDING REPAIR	3
6	HANGER	NO CRACKS	0
G	VERTICALS IN RAILING	3 VERTICALS NEEDING REPAIR	3
7	HANGER	CRACKED INSIDE AND OUTSIDE FACES	10
G-H	ARCH	CRACKED ON INSIDE FACE BOTTOM	5
Н	ARCH	CRACKED ON TOP	10
H	VERTICALS IN RAILING	3 VERTICALS NEEDING REPAIR, SPALLED TOP INSIDE FACE	- 5
8	HANGER	NO CRACKS	0
1	VERTICALS IN RAILING	NO CRACKS	0
1	SIDEWALK	CRACKED ON EAST END WITH SPALL ON INSIDE FACE	10
8E	FLOOR BEAM	SPALLED ON BOTH SIDES WITH EXPOSED REBAR	5
1	ARCH	CRACKED ON INSIDE FACE BOTTOM UNDER DECK	5
		SUBTOTAL	235

		SOUTH SIDE CONCRETE SURFACE REPAIR	
SECTION	CONCRETE ELEMENT	DESCRIPTION	SF
Α	VERTICALS IN RAILING	2 VERTICALS NEEDING REPAIR	1
A	RAILING END BLOCK	CRACKED AND SPALLED ALL AROUND	20
A	ARCH	TOP DETERIORATED EXPOSED LATICE STEEL	5
A	ARCH	CRACKED ON INSIDE FACE BOTTOM UNDER DECK	5
1E	FLOOR BEAM	SPALLED ON SIDE WITH EXPOSED REBAR	5
1	HANGER	NO CRACKS	0
1-8	FLOOR BEAM	ENDS ARE DISTRESSED WITH SPALLS AND CRACKS	80
8	VERTICALS IN RAILING	2 VERTICALS NEEDING REPAIR	1
2	HANGER	20% CRACKED	10
c	VERTICALS IN RAILING	1 VERTICALS NEEDING REPAIR	1
3	HANGER	CRACKED ON OUTSIDE FACE BOTH SIDES	20
D	VERTICALS IN RAILING	2 VERTICALS NEEDING REPAIR	1
D	ARCH	CRACKED ON TOP	10
4	HANGER	CRACKED ON BOTTOM	5
D-E	ARCH	CRACKED ON INSIDE FACE TOP	10
E	VERTICALS IN RAILING	2 VERTICALS NEEDING REPAIR	1
5	HANGER	CRACKED ON BOTTOM AND CRACKED MID HEIGHT ON INSIDE FACE	15
E-F	ARCH	CRACKED ON INSIDE FACE BOTTOM	15
F	VERTICALS IN RAILING	NO CRACKS	0
6	HANGER	CRACKED INSIDE FACE ONE CORNER	10
G	VERTICALS IN RAILING	4 VERTICALS NEEDING REPAIR	4
G	ARCH	SPALLS ON BOTTOM AND CRACKED ON INSIDE FACE TOP	10
7	HANGER	CRACKED AND SPALLED ON INSIDE AND OUTSIDE FACES	10
H	VERTICALS IN RAILING	2 VERTICALS NEEDING REPAIR	2
H	RAIUNG	SPALL INSIDE FACE AT ARCH, CRACK/SPALL INSIDE FACE BOTTOM AT ARCH	5
8	HANGER	NO CRACKS	0
did .	CURB	SPALLED TOP OF CURB	1
1	VERTICALS IN RAILING	2 VERTICALS NEEDING REPAIR	2
8E	FLOOR BEAM	NO CRACKS	0
- 0	CURB	DETERIORATED CONCRETE AT WINGWALL	1
	RAILING END BLOCK	BOTTOM OF RAILING SPALLED OFF AT END	5
- U	ARCH	TOP OF ARCH SPALLED	10
1	ARCH	CRACK ON INSIDE FACE BOTTOM UNDER DECK EXPOSED REBAR	5
		SUBTOTAL	270

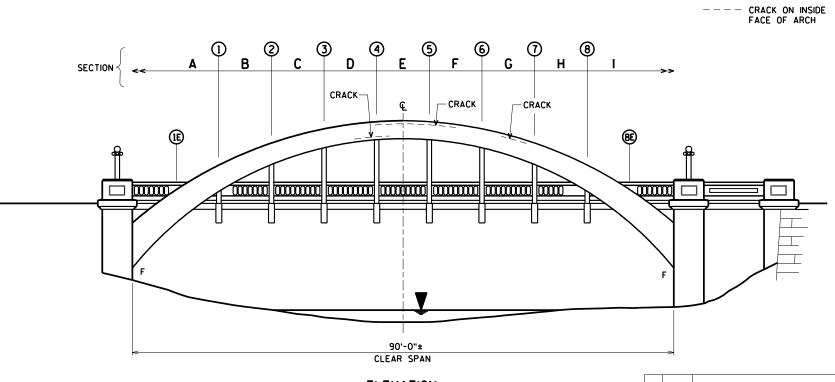
UNDERSIDE CONCRETE SURFACE REPAIR			
SECTION	CONCRETE ELEMENT	DESCRIPTION	SF
B-H	DECK	DISTRESSED CONCRETE BETWEEN FLOOR BEAMS ON SOUTH SIDE EDGE	75
н	DECK	HOLE THROUGH BOTTOM OF DECK WITH EXPOSED REBAR & SPALLS	5
1	ABUTMENT	SPALLING AND DELAMINATED CONCRETE	10
2	FLOOR BEAM	SPALL ON BOTTOM OF FLOOR BEAM	5
		SUBTOTAL	95

UNDISTRIBUTED	500	
TOTAL	1100	



ELEVATION

NORTH SIDE LOOKING SOUTH AT OUTSIDE FACE



ELEVATION SOUTH SIDE LOOKING NORTH AT OUTSIDE FACE

EXPOSED STEEL WILL BE CLEANED AND PAINTED PRIOR TO PLACING THE CONCRETE FOR CONCRETE SURFACE REPAIR. EXPOSED STEEL AREAS ARE TO BE PHOTOGRAPHED AND LOCATION LABELED BY THE ENGINEER. SEE SPECIAL PROVISION "CONCRETE SURFACE REPAIR SPECIAL, SPV.0165.02".

NOTE:

ORIGINAL PLANS PREPARED BY

3433 Oakwood Hills Parkway
Equ Claire, WI 54701
www.AyresAssociates.com

REP

NO. DATE REVISION BY

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

STRUCTURES DESIGN SECTION

SHEET 3 OF 4

8

LEGEND

CRACK ON OUTSIDE FACE OF ARCH

STATE PROJECT NUMBER

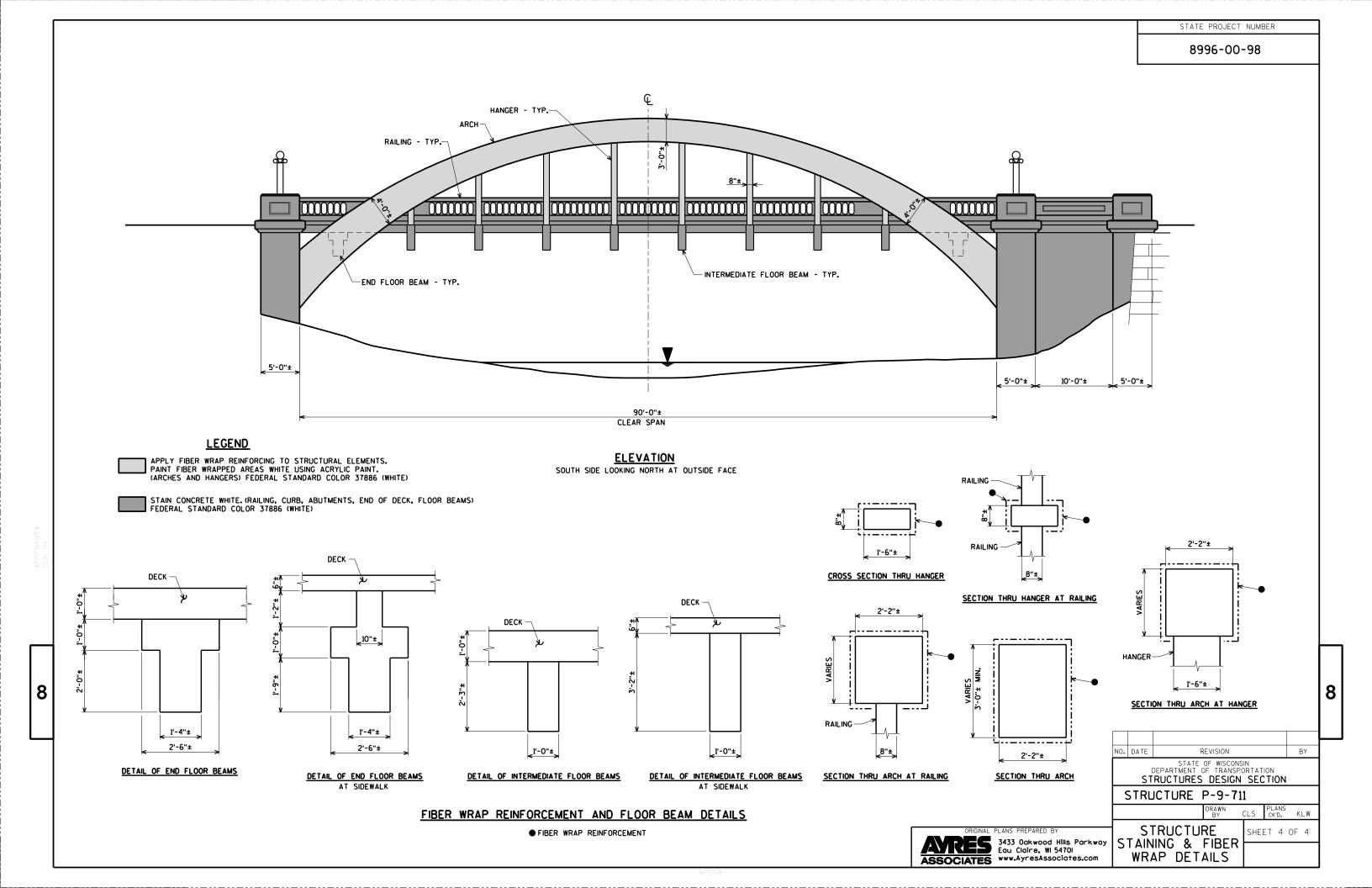
8996-00-98

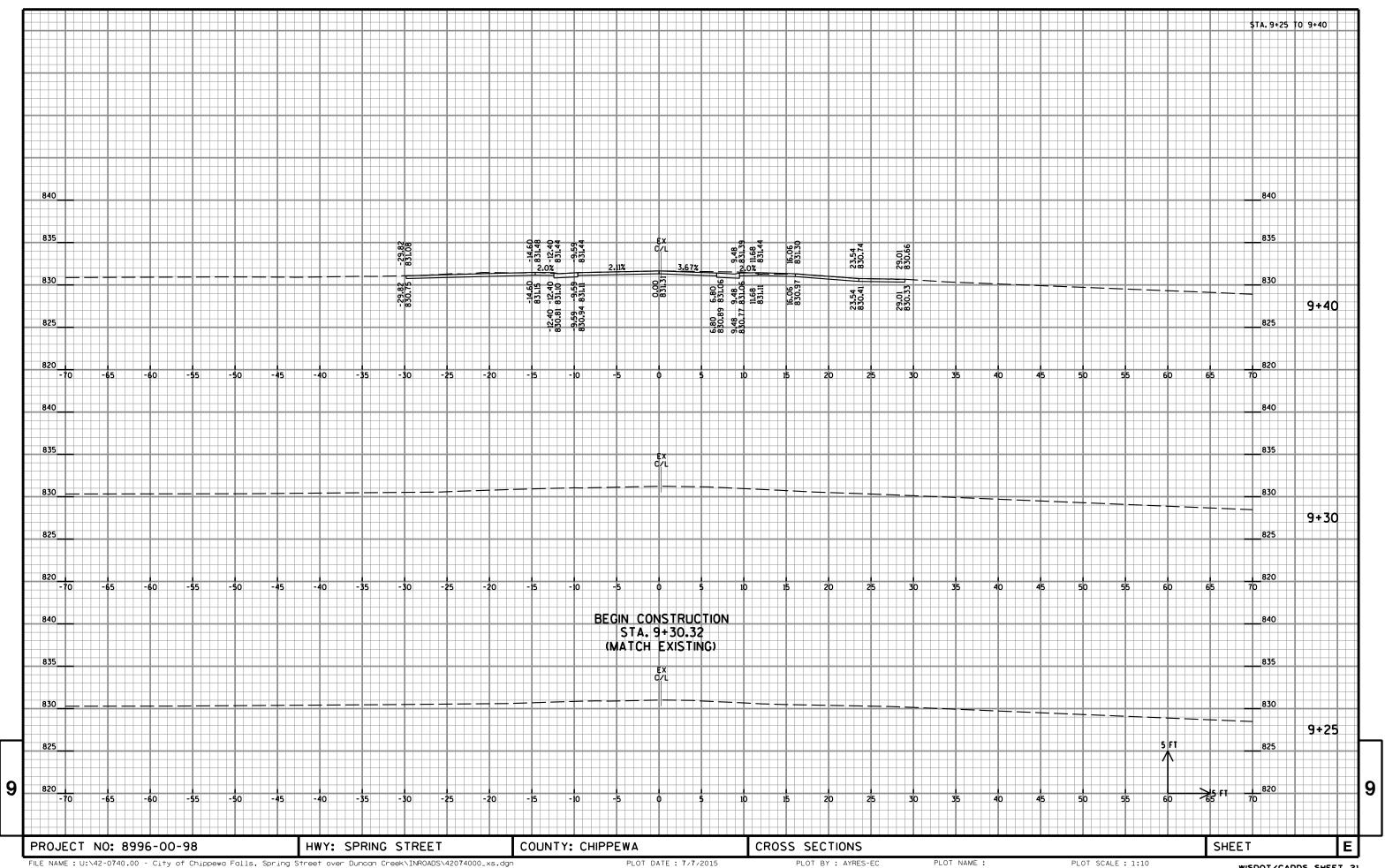
STRUCTURE P-9-711

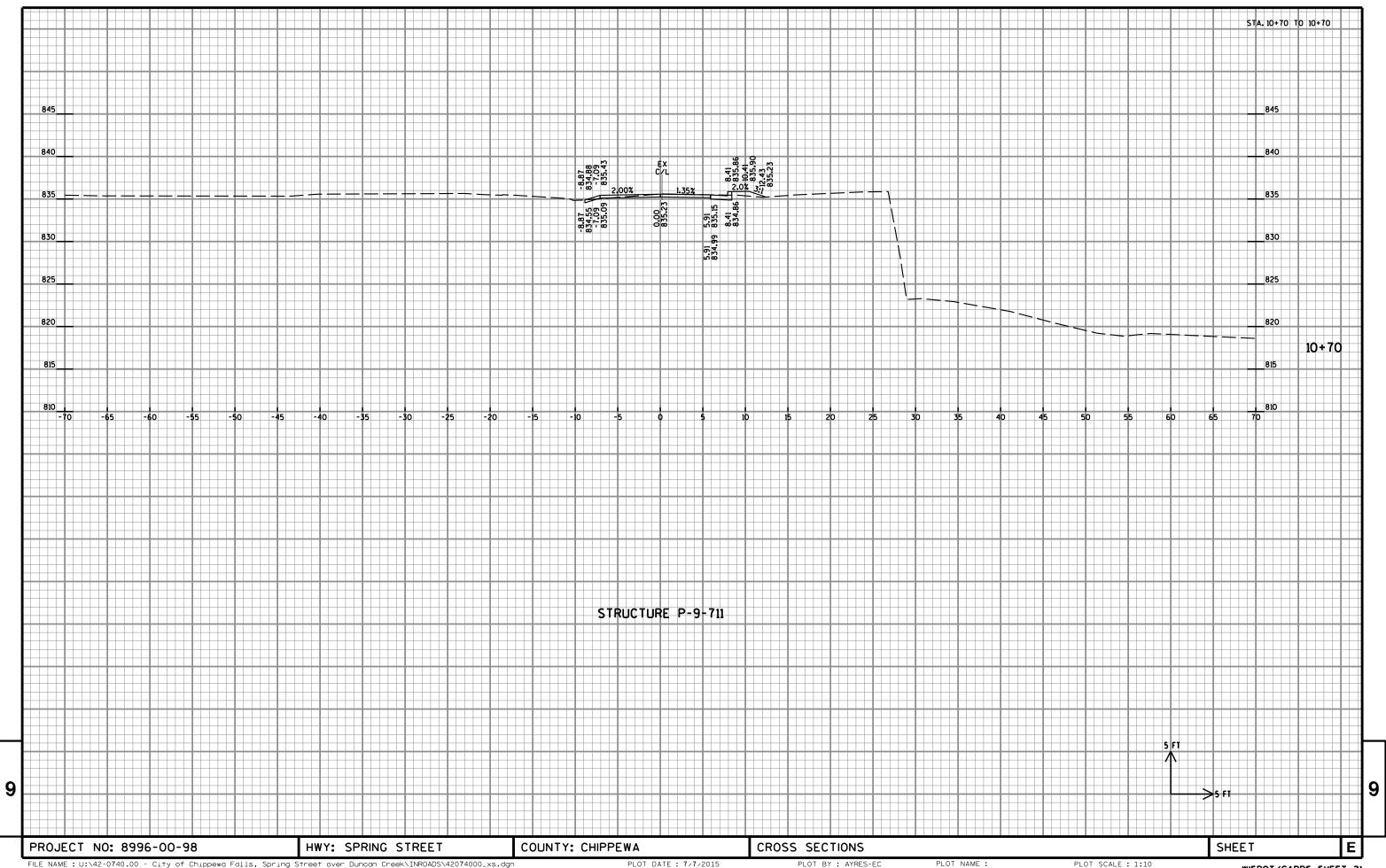
| DRAWN | CLS | PLANS | KLW |

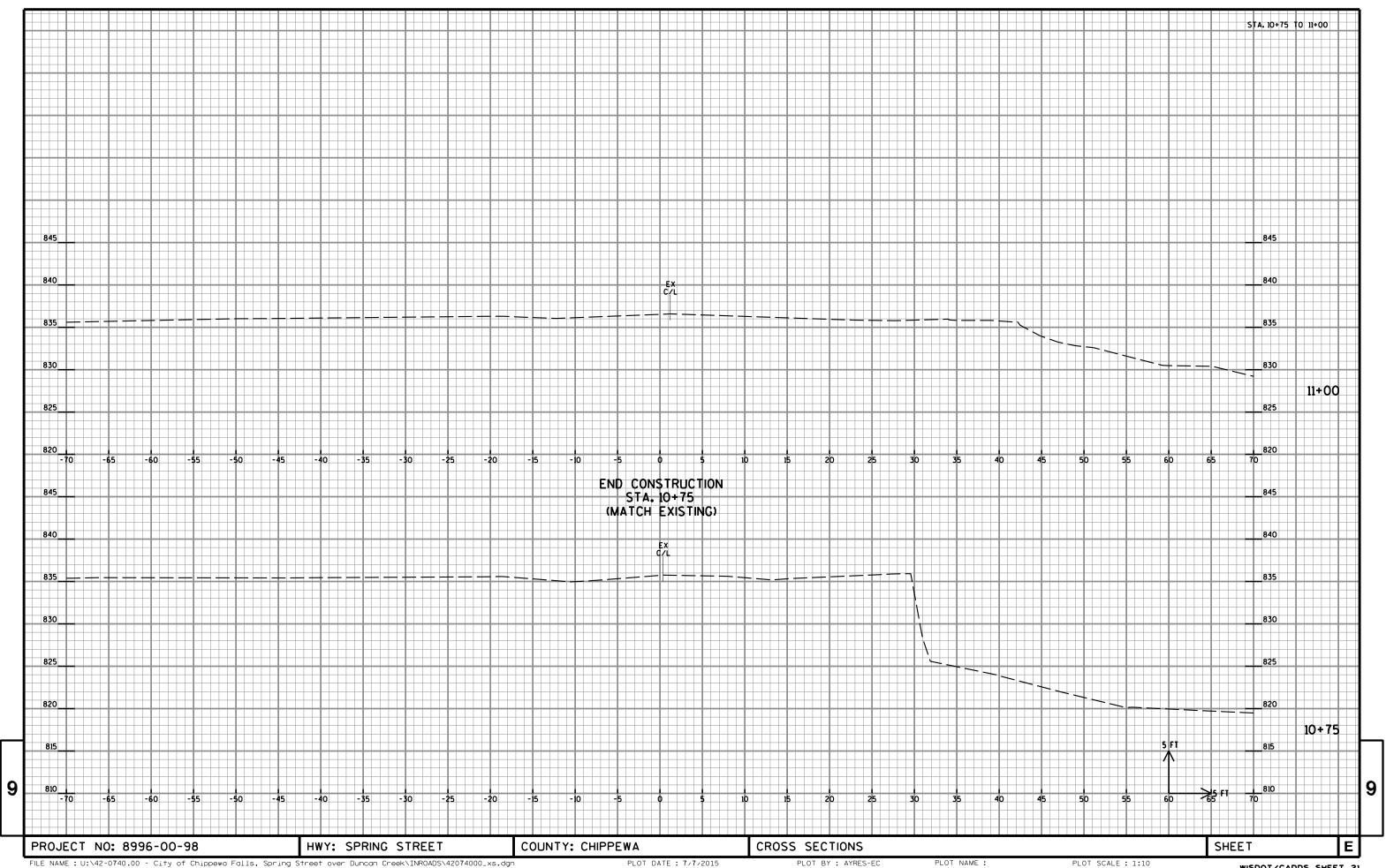
CONCRETE SURFACE REPAIR DETAILS

7/7/2015









Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov