WIS MAY 2014

Section No. 2 Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities Right of Way Plat

Standard Detail Drawings Sign Plates

TOTAL SHEETS = 126

STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details

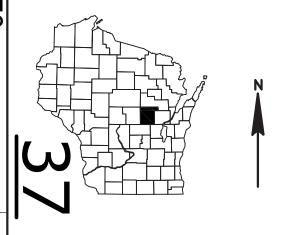
PLAN OF PROPOSED IMPROVEMENT

C WAUPACA, WEST FULTON STREET

STH 54 & COUNTY RD QQ INTERSECTION

STH 54 WAUPACA

STATE PROJECT NUMBER 6991-01-70

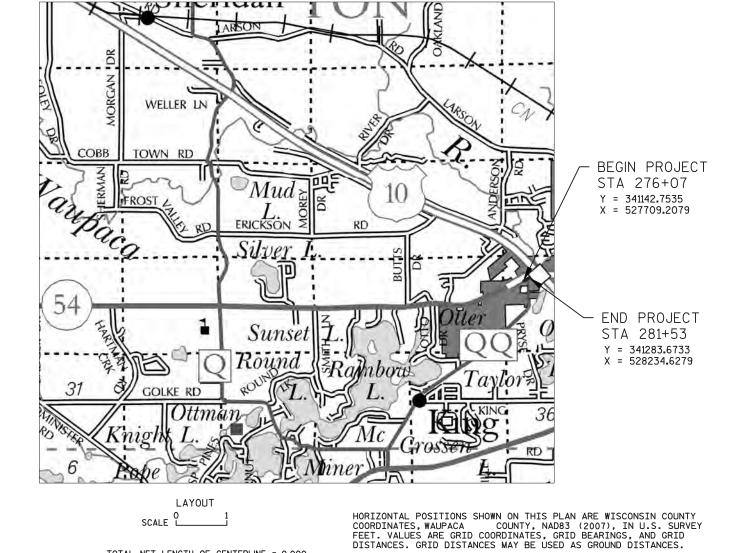


DESIGN DESIGNATION

A.A.D.T. 2012 = 4100 A.A.D.T. 2009 = 4000 D.H.V. = 10.8 = 62/38 = 13.5% DESIGN SPEED = 60 MPH = 547,500

CONVENTIONAL SYMBOLS

PLAN **PROFILE** GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE __ ROCK_ MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE MARSH AREA UTILITY PEDESTAL POWER POLE TELEPHONE POLE WOODED OR SHRUB AREA Ø



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2014201

STATE PROJECT

6991-01-70

PREPARED BY NC REGION Surveyor ERIN CHRISTIANSON CHERYL SIMON MICHAEL KRETSCHMER

APPROVED FOR THE DEPARTMENT

TOTAL NET LENGTH OF CENTERLINE = 0.000

2 |

2

GENERAL NOTES

PAVEMENT REMOVAL WILL BE TO THE NEAREST JOINT OR A SAWED EDGE WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

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 CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

UTILITIES

CHARTER COMMUNICATION
RUDI RUDIGER
5024 HEFFRON STREET
STEVENS POINT, WI 54481
PHONE: (715) 302-1550
CELL: (715) 302-1550

CITY OF WAUPACA - SEWER & WATER

111 S MAIN STREET WAUPACA, WI 54981 PHONE: (715) 258-4420 CELL: (715) 496-3080

JOHN EDLEBECK

WE ENERGIES - GAS/PETROLEUM

BILL GARSKI 1921 8TH STREET SOUTH WISCONSIN RAPIDS, WI 54494

PHONE: (715) 421-7259 CELL: (715) 421-9882 WISCONSIN BELL, INC. d/b/a AT&T WISCONSIN

CHUCK BARTELT
70 EAST DIVISION STREET
FOND DU LAC, WI 54935
PHONE: (920) 410-5104
CELL: (920) 410-5104

WISCONSIN PUBLIC SERVICE CORPORATION

STEVE HARVEY 2001 PLOVER ROAD PLOVER, WI 54467 PHONE: (715) 345-7527 CELL: (715) 451-5115

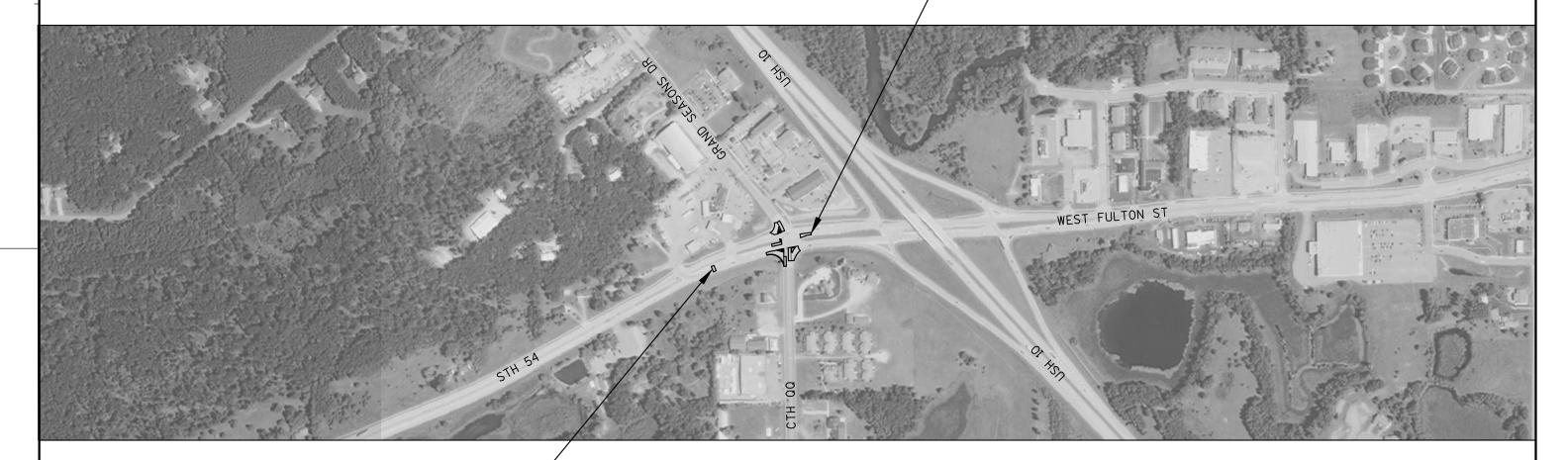


PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA GENERAL NOTES SHEET: **E**

FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\020101 gn.ppt PLOT NAME : 020101 gn.ppt PLOT SCALE : 1:1



END PROJECT STATION 281+53



BEGIN PROJECT STATION 276+07

PROJECT NO:6991-01-70

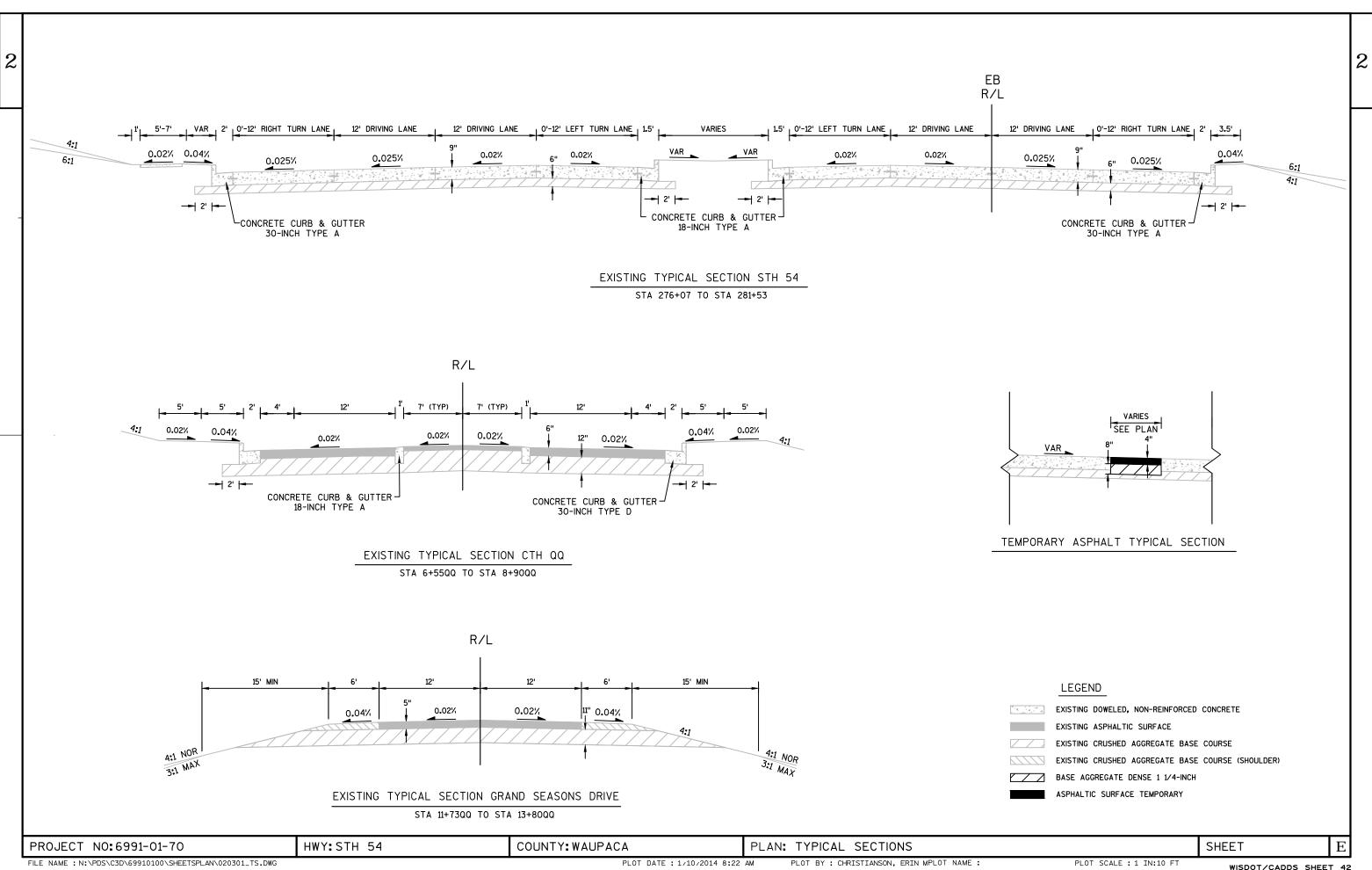
HWY:STH 54

COUNTY: WAUPACA

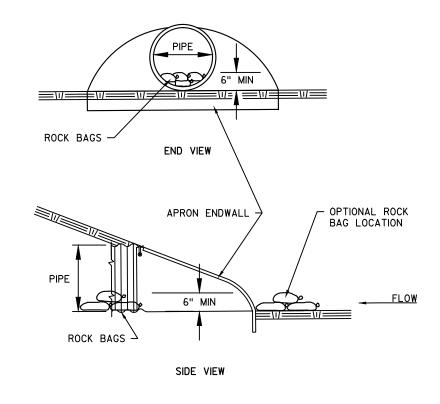
PROJECT OVERVIEW

SHEET

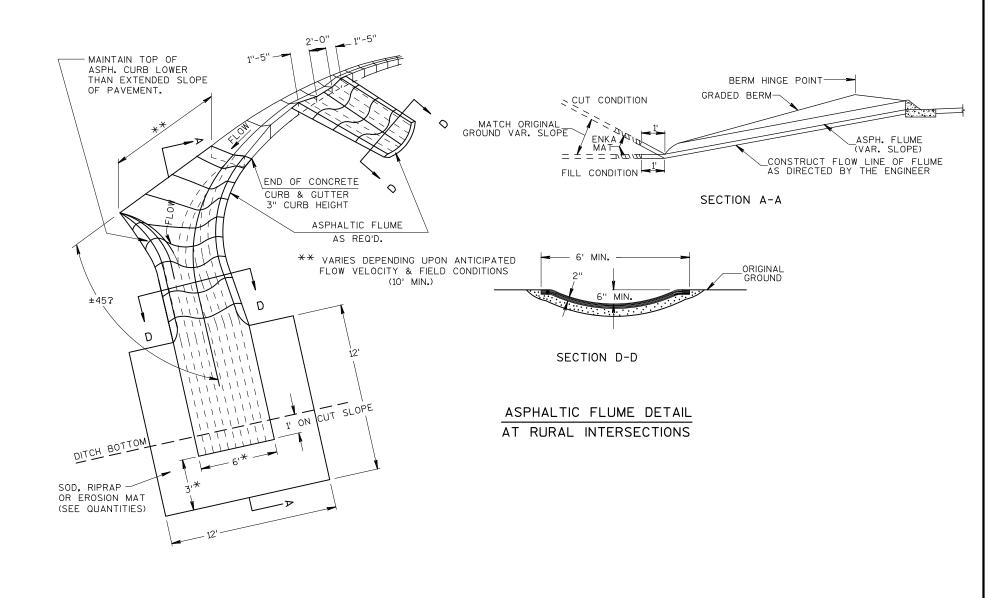
PLOT SCALE : 1 IN:500 FT





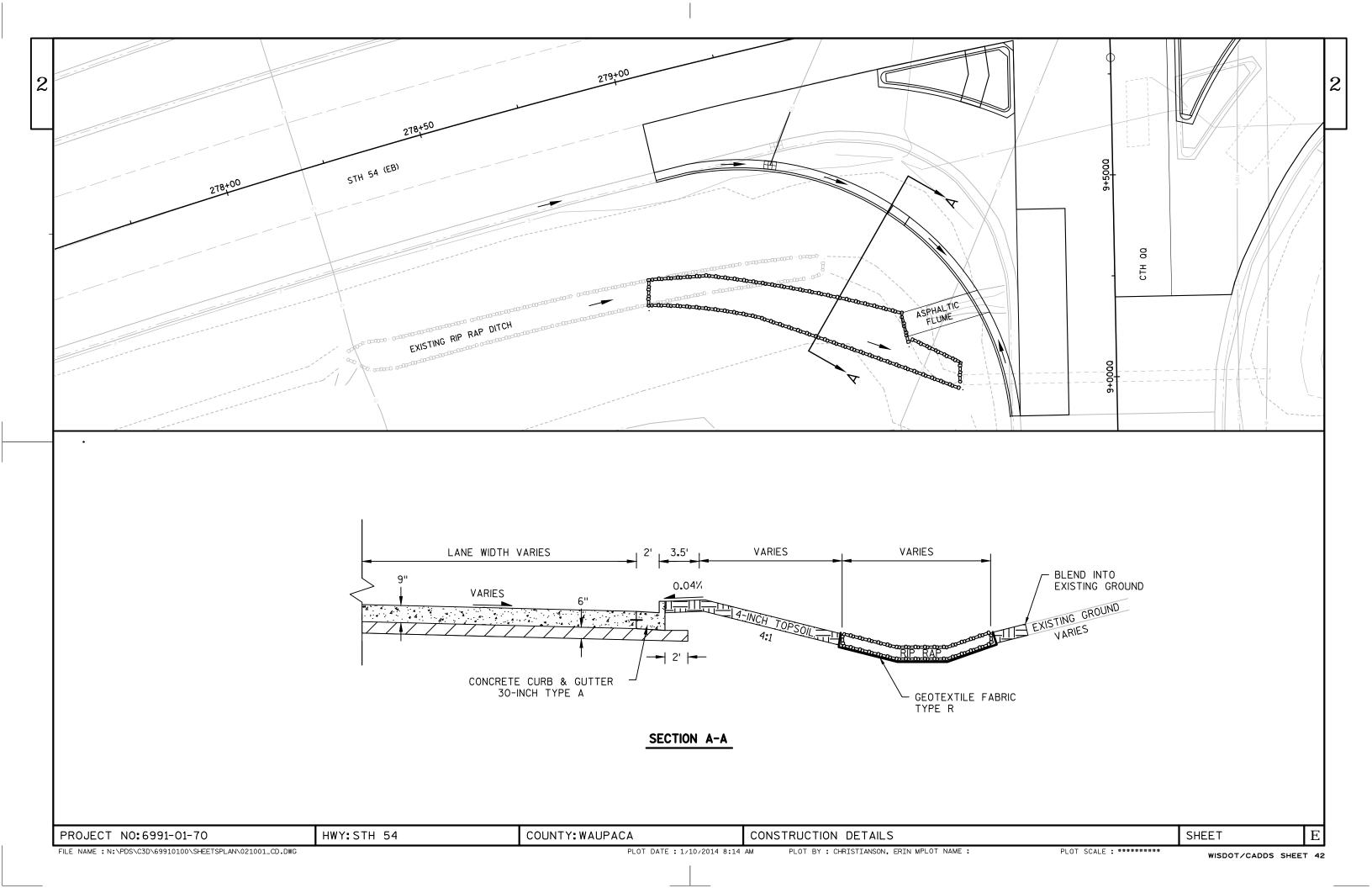


CULVERT PIPE CHECK
(INSTALL ON INLET END ONLY)

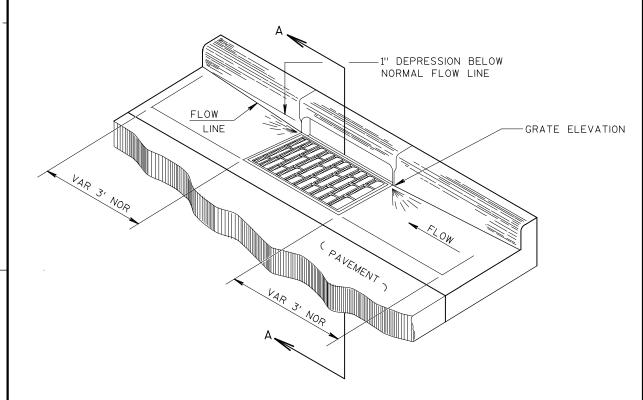


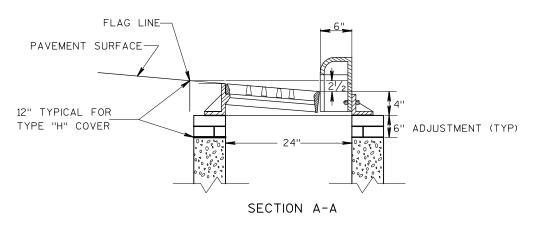
PROJECT NO:6991-01-70 HWY:STH 54 COUNTY:WAUPACA CONSTRUCTION DETAILS SHEET E

FILE NAME: N:\PDS\C3D\69910100\SHEETSPLAN\021001_CD.DWG PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: 42









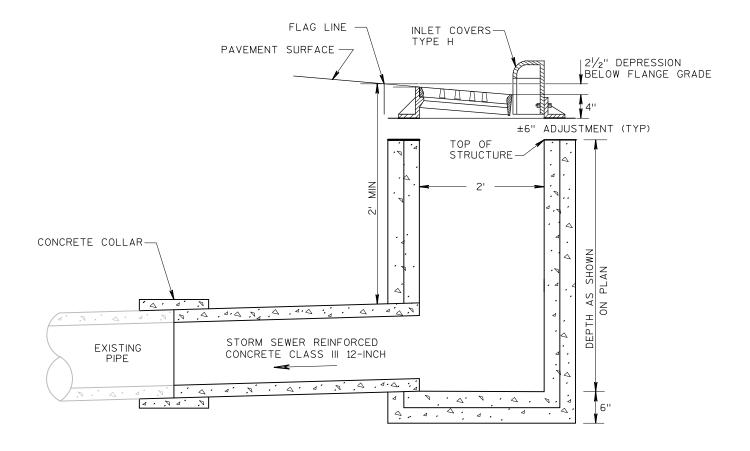
DETAIL OF CURB AND GUTTER AT INLETS (TYPE 3-H INLET SHOWN)

		LOCATION	INLET,				TOP OF						DISCHARGE F	PIPE		
LABEL	STATION	(CENTER OF STRUCTURE)	MANHOLE, OR CATCH BASIN	TYPE	FLAG ELEV	RIM/GRATE ELEV *	STRUCT ELEV (TSE)	INVERT ELEV	DEPTH \$	то	SIZE (IN)	PAY LENGTH C-C (FT)	INSTALL LENGTH (FT)	SLOPE (FT/FT)	OUTFALL ELEV (EOP)	OUTFALL OFFSET (EOP)
I-01	279+33	29.2 RT	INLET	2x 3-FT-H	894.92	894.71	893.87	890.43	3.60	EXIST	12	14.0	13.0	0.0075	890.32	18.0 RT

* = GRATE ELEVATION SHOWN IS 1" LOWER THAN NORMAL GUTTER FLOWLINE ELEVATION RIM/GRATE ELEV = FLAG ELEV - 0.211

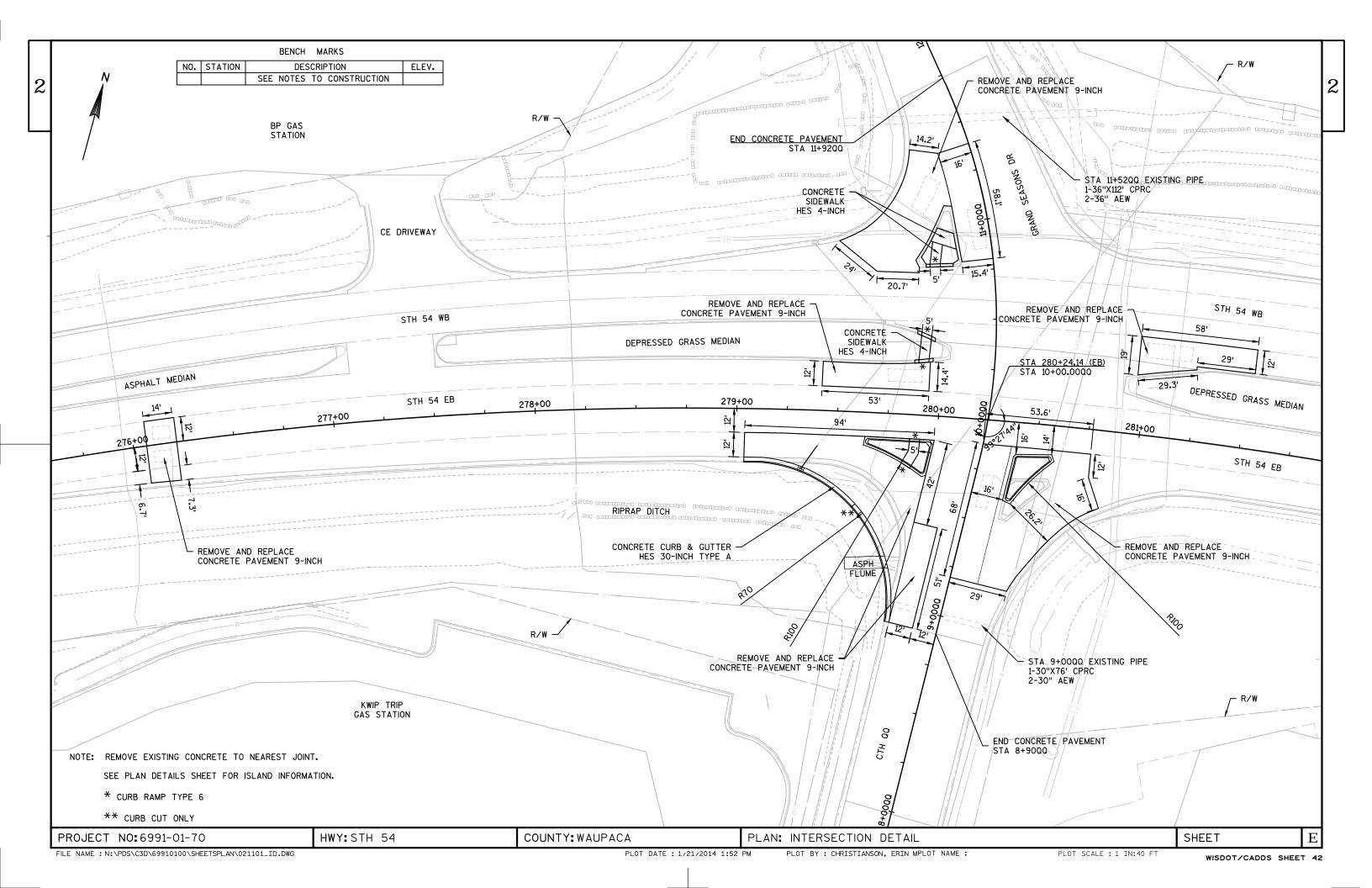
TSE = RIM GRATE ELEV - 4" CASTING - 6" ADJUSTMENT

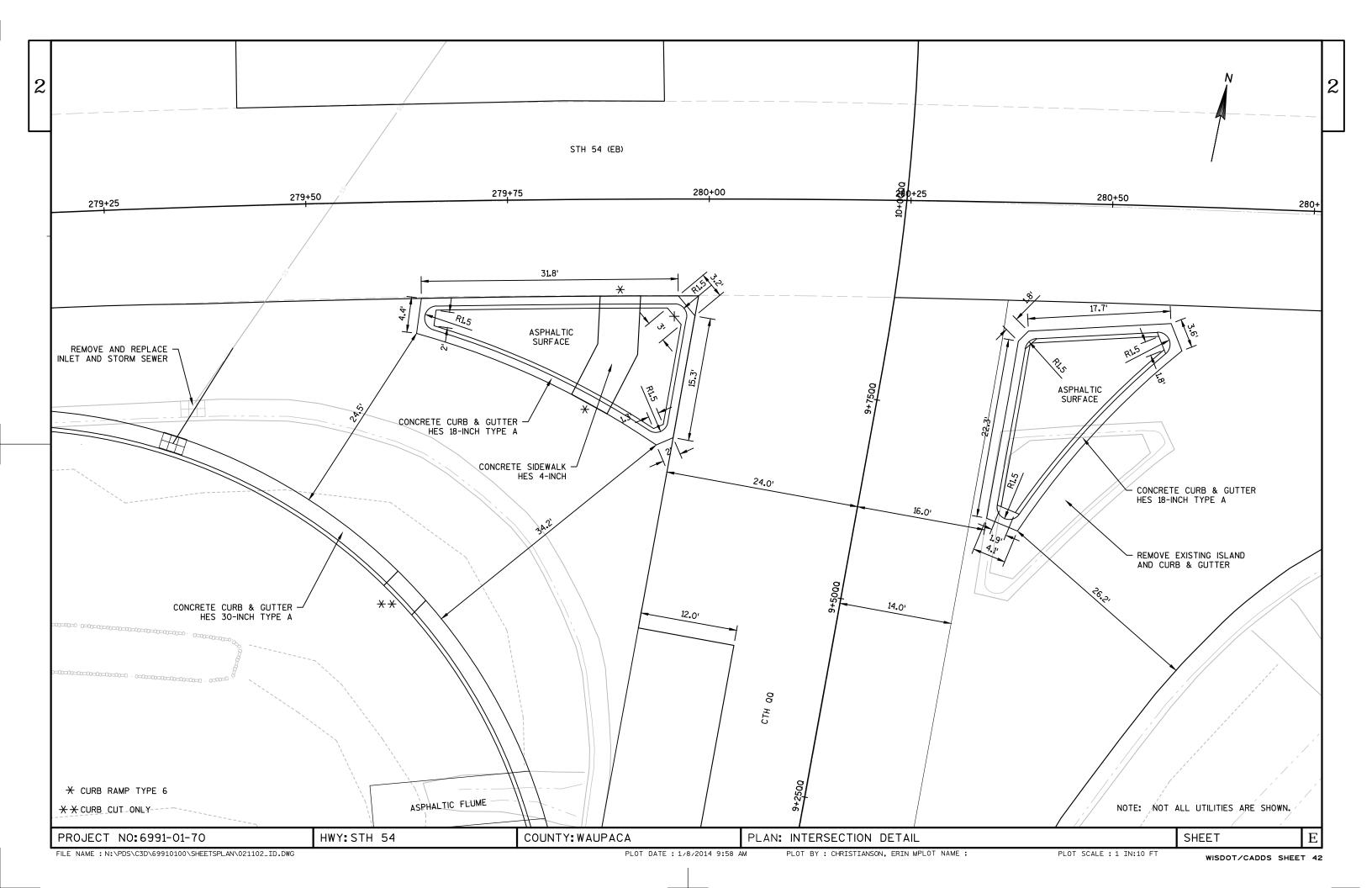
DEPTH = TOP OF STRUCTURE ELEV - OUTLET ELEV + PIPE THICKNESS \$ = DEPTH DOESN'T INCLUDE 6" ADJUSTMENT ALLOWANCE BELOW CASTING

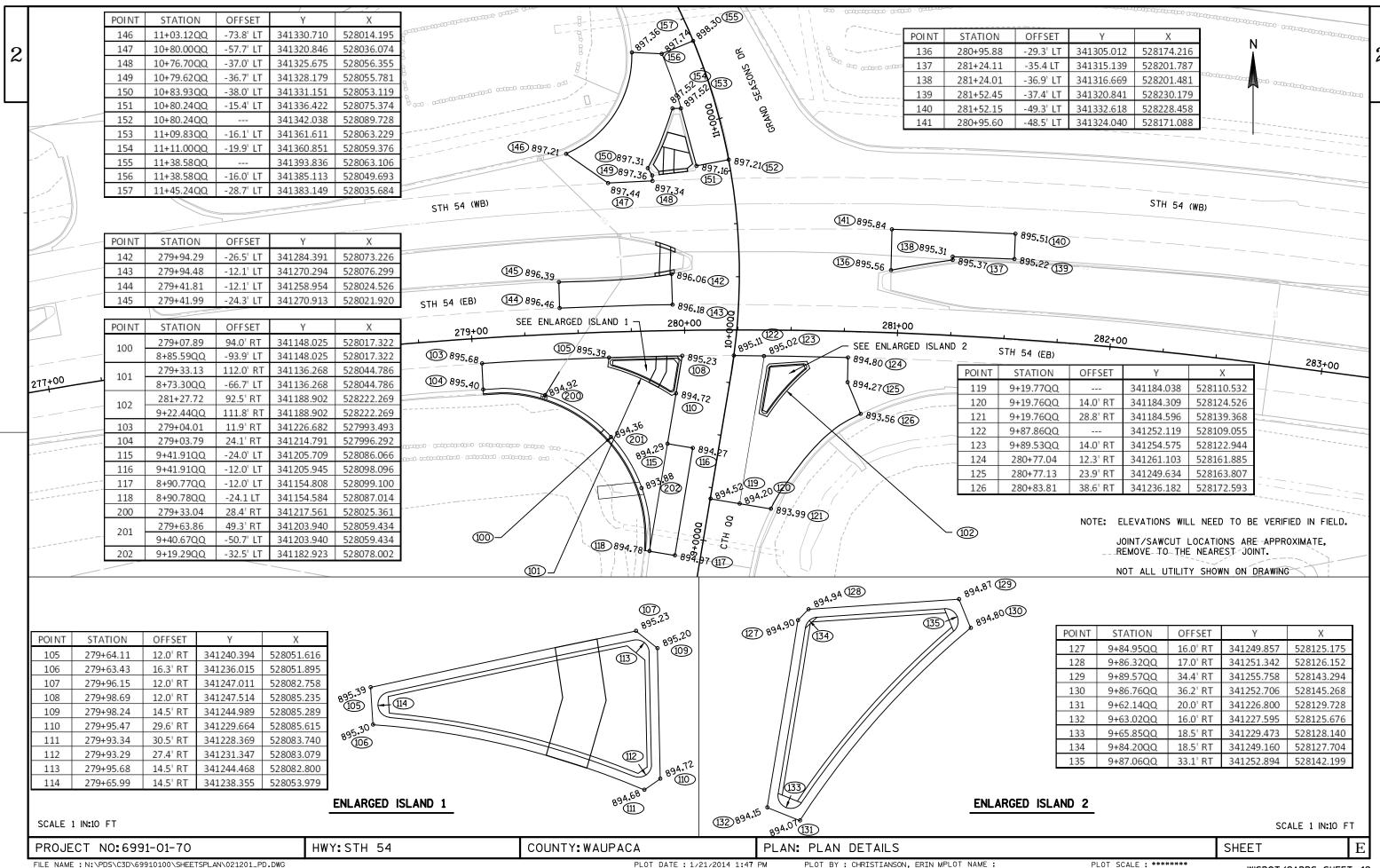


INLET 2X3-FT STATION 279+33

PROJECT NO:6991-01-70 HWY:STH 54 COUNTY: WAUPACA CONSTRUCTION DETAILS SHEET



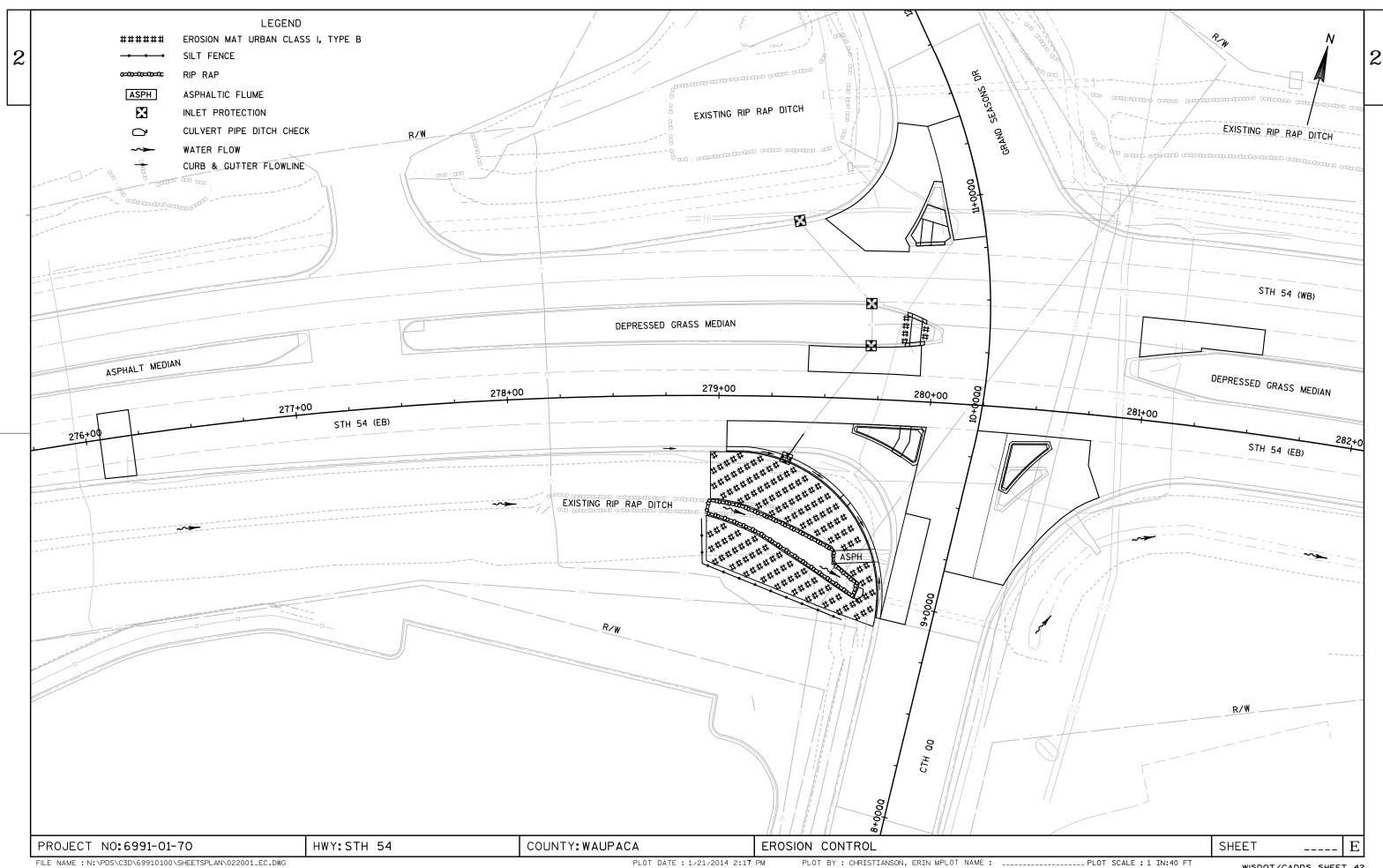


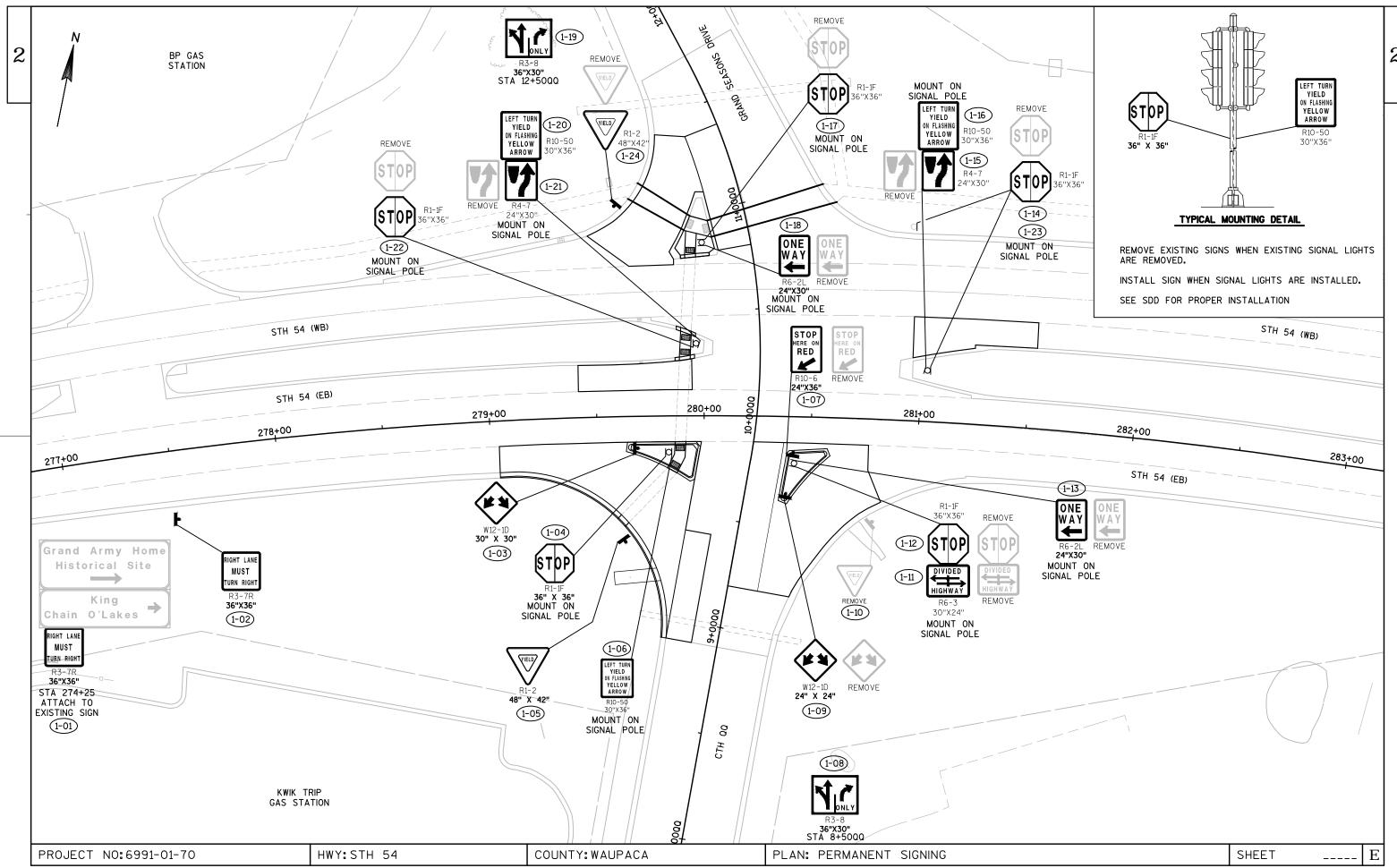


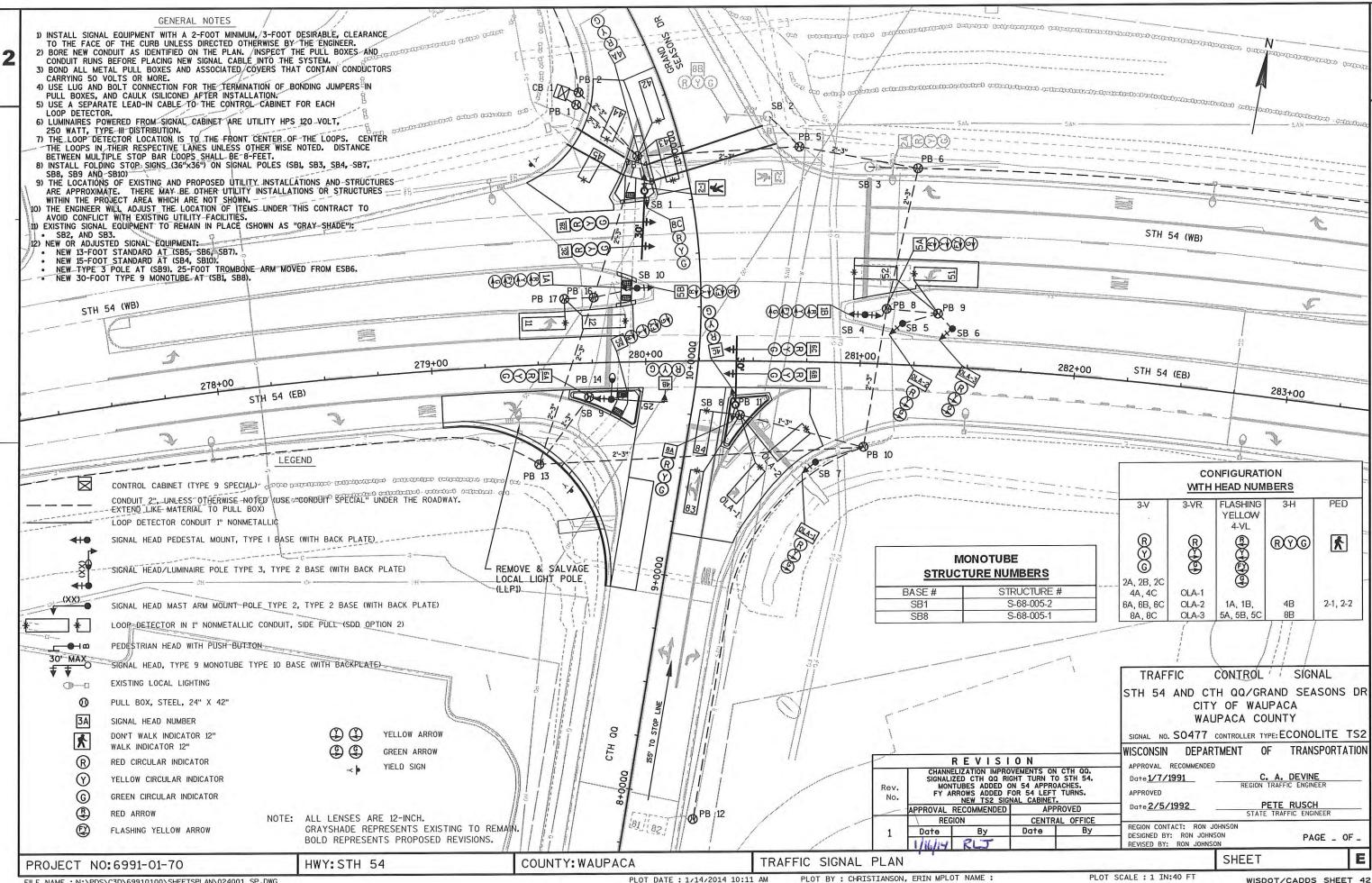
FILE NAME : N:\PDS\C3D\69910100\SHEETSPLAN\021201_PD.DWG

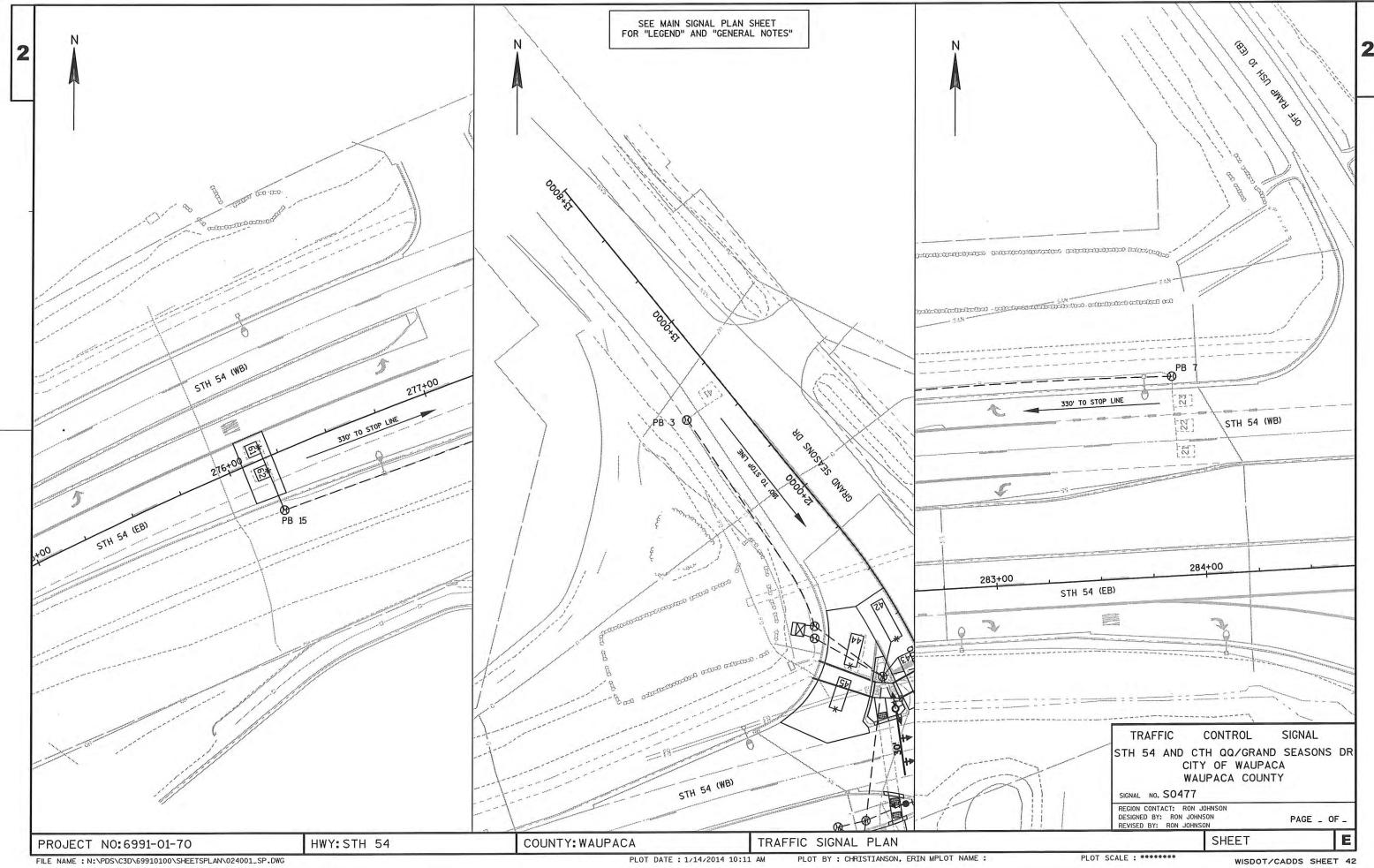
PLOT DATE: 1/21/2014 1:47 PM

PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:









	DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
F	DETECTOR #(S)	61	11	21	23	51	41	42	*44	81	83	OLA-1					
	CALLS & EXTENDS	X	X	X	X	Х		Х	X		Х	Х					
A S H	CALLS ONLY												111	1 = 1			
Н	EXTENDS ONLY			2 - 7			Х			X			4				
_	PHASE CALLED	6	1	2	2	5		4	4		8	8					
R	PHASE EXTENDED	6	1	2	2	5	4	4	4	8	8	8					
	DISCONNECT PHASE							1 == 1									
R	CALLING DELAY								Х			X					
-	EXTENSION STRETCH						X			X							
R	SIZE	6x6	6×20	6×6	6x6	6×20	6x6	6×20	6×15	6×6	6×20	6×20					
	NUMBER OF TURNS	4	3	4	4	3	3	3	3	4	3	3					
R	DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
R	DETECTOR #(S)	62	12	22		52		43	*45	82	84	OLA-2					
	CALLS & EXTENDS	Х	X	X		X		X	X		X	Х				4 15 1	
R R R -	CALLS ONLY								112 -41							1 - 1	
*	EXTENDS ONLY									X						4 31	
	PHASE CALLED	6	1	2		5		4	4		8	8				1	
	PHASE EXTENDED	6	1	2		5		4	4	8	8	8				1_71	
	DISCONNECT PHASE													- E	1 :	1	
	CALLING DELAY							X	X		X	X					
	EXTENSION STRETCH									X							
	SIZE	6×6	6x20	6x6		6x20		6x20	6×15	6×6	6x20	6×20					
	NUMBER OF TURNS	4	3	4		3		3	3	4	3	3					

^{*} DETECTORS INSTALLED FOR FUTURE USE (44,45).

TYPE OF INTERCONNECT COMMUNIC	ATION	
NONE	X	-
TBC	113	TYPE OF
CLOSED LOOP TWISTED PAIR*		NONE
CLOSED LOOP FIBER OPTIC*	100	RAILROAD
RADIO		EMERGENCY '
*LOCATION OF MASTER	-7.7	3M
CONTROLLER NO: S-		TOMAR
SIGNAL SYSTEM #: SS	- 22	HARDWIRE
TYPE OF LIGHTING		OTHER
THE OF EIGHTHAS		LIFT BRIDGE

BY OTHER AGENCY

IN TRAFFIC SIGNAL CABINET

IN SEPARATE DOT LIGHTING CABINET

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIET DDIDGE	

SPECIAL OVERLAPS

		PROTECTED	PERMISSIVE
0.L.	"E"	1	2
0.L.	"F"		
0.L.	"G"	5	6
0.L.	"H"		

OVERLAPS

0.L.	"A"	=	5.8
0.L.	"B"	=	NONE
0.L.	"C"	=	NONE
0.L.	"D"	=	NONE

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHAS
1		6	
2	X	6	MIN
3			
4		8	
5		2	
6	Χ	2	MIN
7	1.27		
8		4	

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

Ø1

R/W XX

RRR

RRR

RRR - Y R

RRR

DW DW DW

R/W XX

RRR

RRR

RRR

GYR

RRR

- Y R

DW DW DW

VOLA

05

CLEAR TO

CLEAR TO

RING 1

02

Ø3 04

05

06

Ø1

02

Ø3

04

05

06 07

08

Q2P

HEAD NUMBERS 1A,1B

2A,2B,2C

4A,4B,4C

5A.5B.5C

6A,6B,6C

8A,8B,8C

1A,1B 5A,5B,5C

2-1,2-2

RING 2

HEAD **NUMBERS**

1A,1B

2A,2B,2C

4A,4B,4C

5A,5B,5C

6A,6B,6C

8A,8B,8C

1A,1B

5A.5B.5C

2-1,2-2

OLA OLA-1, OLA-2, OLA-3

OLA OLA-1,OLA-2,OLA-3

WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

FY = FLASHING YELLOW

BARRIER	?	CHART 1	
ART 1)	PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
	1	5 OR 6, OLA, OLG	2, 4, 8
	2	5 OR 6, OLA, OLE, OLG	1, 4, 8
	3		
	4	8, OLA	1,2,5,6,0LE,0LG
	5	1 OR 2, OLA, OLE	4, 6, 8
	6	1 OR 2, OLE, OLG	4, 5, 8, OLA
	7		
	8	4, OLA	1,2,5,6,0LE,0LG

GENERAL NOTES:

QUEUE DETECTOR

- 1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- 2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
- 3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

TRAFFIC CONTROL SIGNAL STH 54 & CTH QQ/GRAND SEASONS DR CITY OF WAUPACA, WAUPACA COUNTY

SIGNAL NO. SO477

CONTROLLER TYPE: ECONOLITE TS2

SHEET

DATE ----

PAGE NO. -

PROJECT NO:6991-01-70

HWY: STH 54

SEQUENCE OF OPERATION

CLEAR TO

R/W XX

G Y R

RRR

RRR

FY Y R

RRR

* DW DW

R/W XX

RRR

YR

RR

RR

RRR

FY Y R

DW DW DW

G

R

06

CLEAR TO

NOT **USED**

Ø3

NOT **USED**

07

R/W XX

CLEAR TO

R/W XX

CLEAR TO

04

R/W XX

RR

RRR

RRR

RRR

RRR

DW DWDW

R/W

R

R RR

GYR

GYR

RRR

RRR

DW DW DW

1

|||OLA

Ø8

**

RR

CLEAR TO

CLEAR TO

COUNTY: WAUPACA

SEQUENCE OF OPERATIONS

PLOT SCALE : 1 IN:40 FT

PROJECT ID: 6991-01-70 INTERSECTION: STH 54@CTH QQ, S#0477
 Signal Wire Color Coding
 BLK - black
 RED - red

 WHT - white
 BLU - blue
 GRN - green ORG - orange

		AWG 14 # OF						SI	GNAL INDICATI	ION WIRE COLC	R			PED	
CB1 TO	O JUMPER	COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<green></green>	FLASHING YELLOW	D/WALK	WALK	BUTTON	OTHE
SB1		19	2B	2	REDWHT	BLK/RED	GRNWHT								
			2C	2	REDWHT	BLK/RED	GRNAWHT								
			4A	4	RED/BLK	ORG/BLK	GRN/BLK								
			8C	8	RED	ORG	GRN							1 7.5.1	
			2-1	PED 2								BLK	BLU	WHT/BLK	
SB2		7	8B	8	RED	ORG	GRN								
			2-2	PED 2								BLK	BLU	WHT/BLK	
SB3		5	2A	2	RED	ORG	GRN								
SB4		12	1B	OLE				RED	ORG	GRN	BLU				
			5A	OLG				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB5		5	OLA-2	OLA	RED				ORG	GRN					
SB6		5	OLA-3	OLA	RED				ORG	GRN					
SB7		5	OLA-1	OLA	RED				ORG	GRN	7	1			
SB8		12	4C	4	RED/BLK	ORG/BLK	GRN/BLK								
			6B	6	REDWHT	BLK/RED	GRNWHT								
			6C	6	REDWHT	BLK/RED	GRNWHT								
			8A	8	RED	ORG	GRN								
SB9		19	4B	4	RED	ORG	GRN								
			5C	OLG				REDWHT	BLK/RED	BRNWHT	BLU/BLK				
			6A	6	RED/BLK	ORG/BLK	GRN/BLK								
SB10		12	1A	OLE				RED	ORG	GRN	BLU				
			5B	OLG				RED/BLK	OGR/BLK	GRN/BLK	BLU/BLK				

Equipment grounding conductor 10 AWG Green XLP						
From	То					
CB1	SB1					
SB1	SB2					
SB2	SB3					
SB3	SB4					
SB4	SB5					
SB5	SB6					
SB6	SB7					
SB7	SB8					
SB8	SB9					
SB9	SB10					
SB10	CB1					

Pull Box Bonding Jumper 10 AWG Green XLP						
From	То					
CB1	PB1					
CB1	PB2					
SB1	PB4					
SB2	PB5					
SB3	PB6					
SB4	PB8					
SB5	PB9					
SB7	PB10					
SB8	PB11					
SB9	PB13					
SB9	PB14					
SB10	PB16					

From	То
CB1	SB9

Preen	y Vehicle option
From	То
100	

TRAFFIC CONTROL SIGNAL STH 54 & CTH QQ/GRAND SEASONS DR CITY OF WAUPACA, WAUPACA COUNTY SIGNAL NO. SO477

CONTROLLER TYPE: ECONOLITE TS2

DATE ----

PAGE NO. -

PROJECT NO:6991-01-70

HWY: STH 54

COUNTY: WAUPACA

CABLE ROUTING CHART

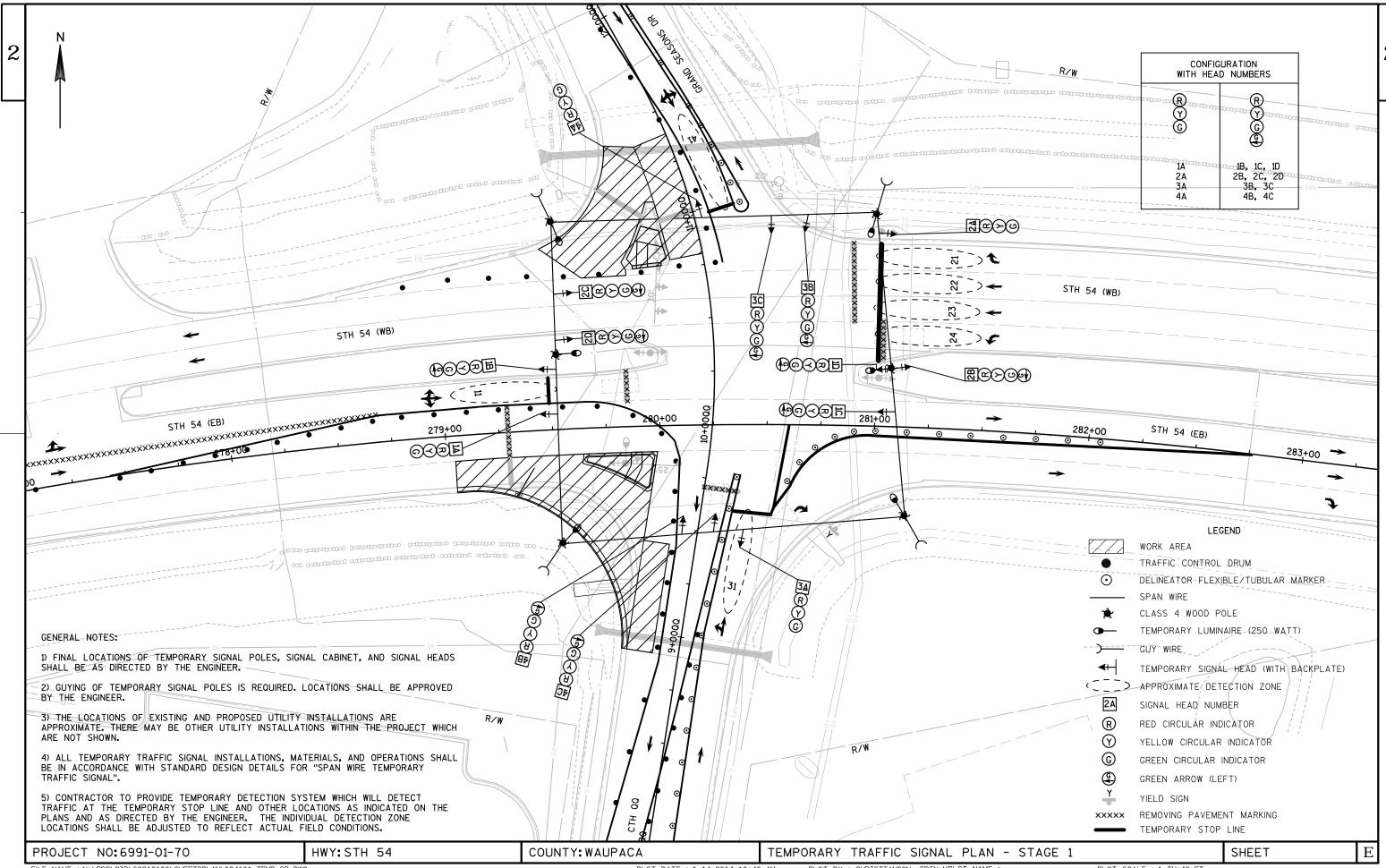
SHEET

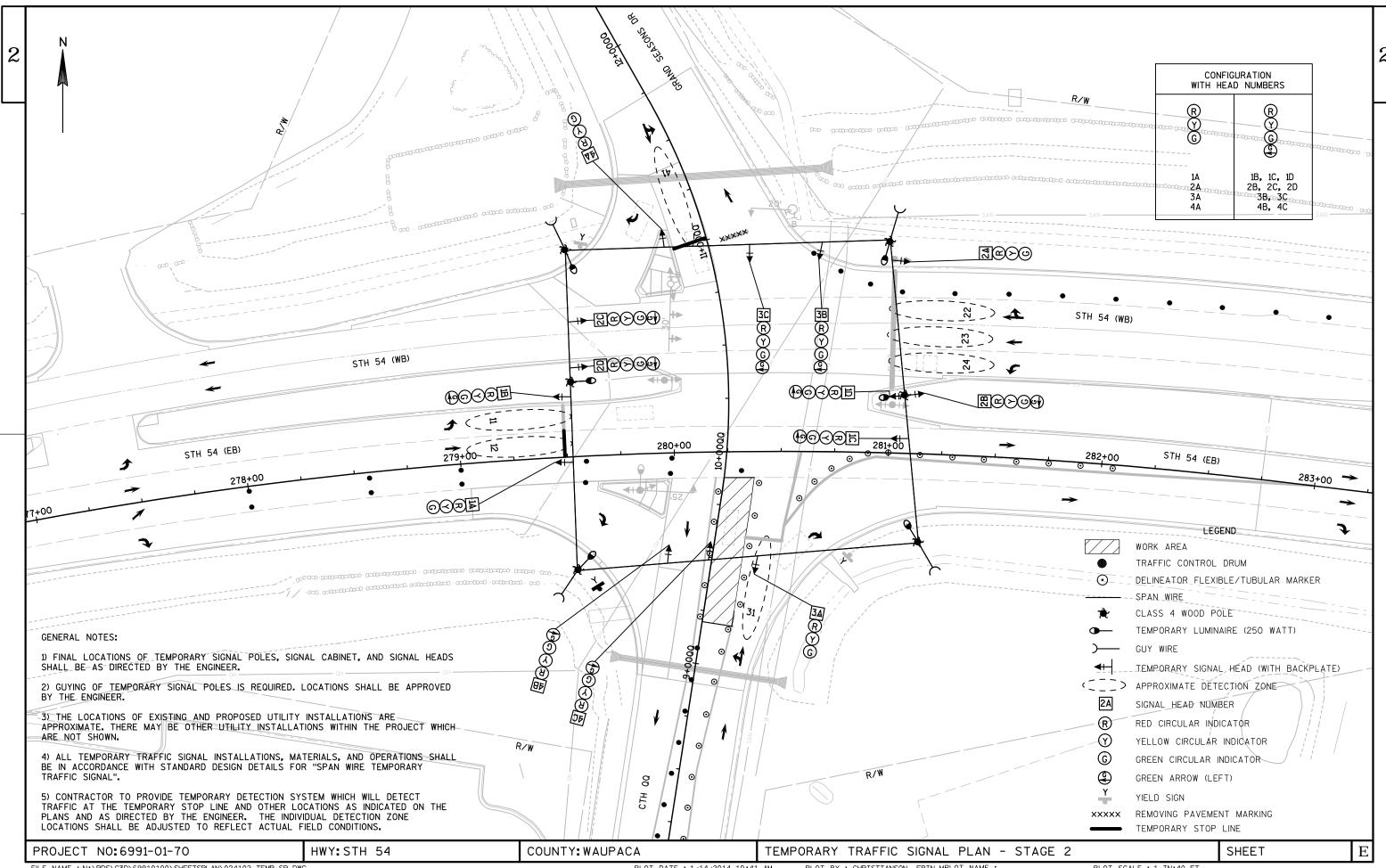
^{*}Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications

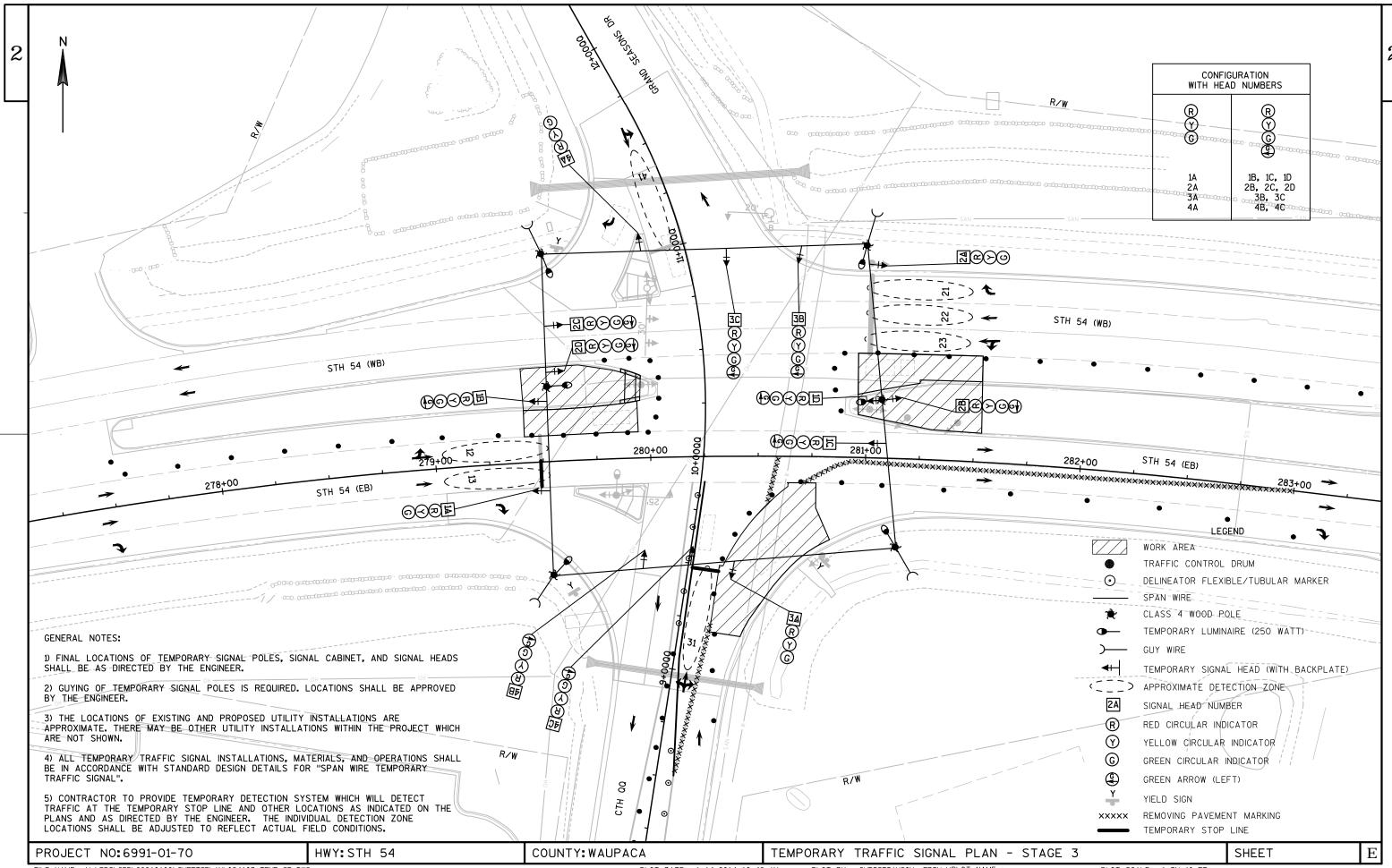
^{*}Ensure the grounded conductor in the feeder cable and the pole cables are both 12" longer than the ungrounded conductors.

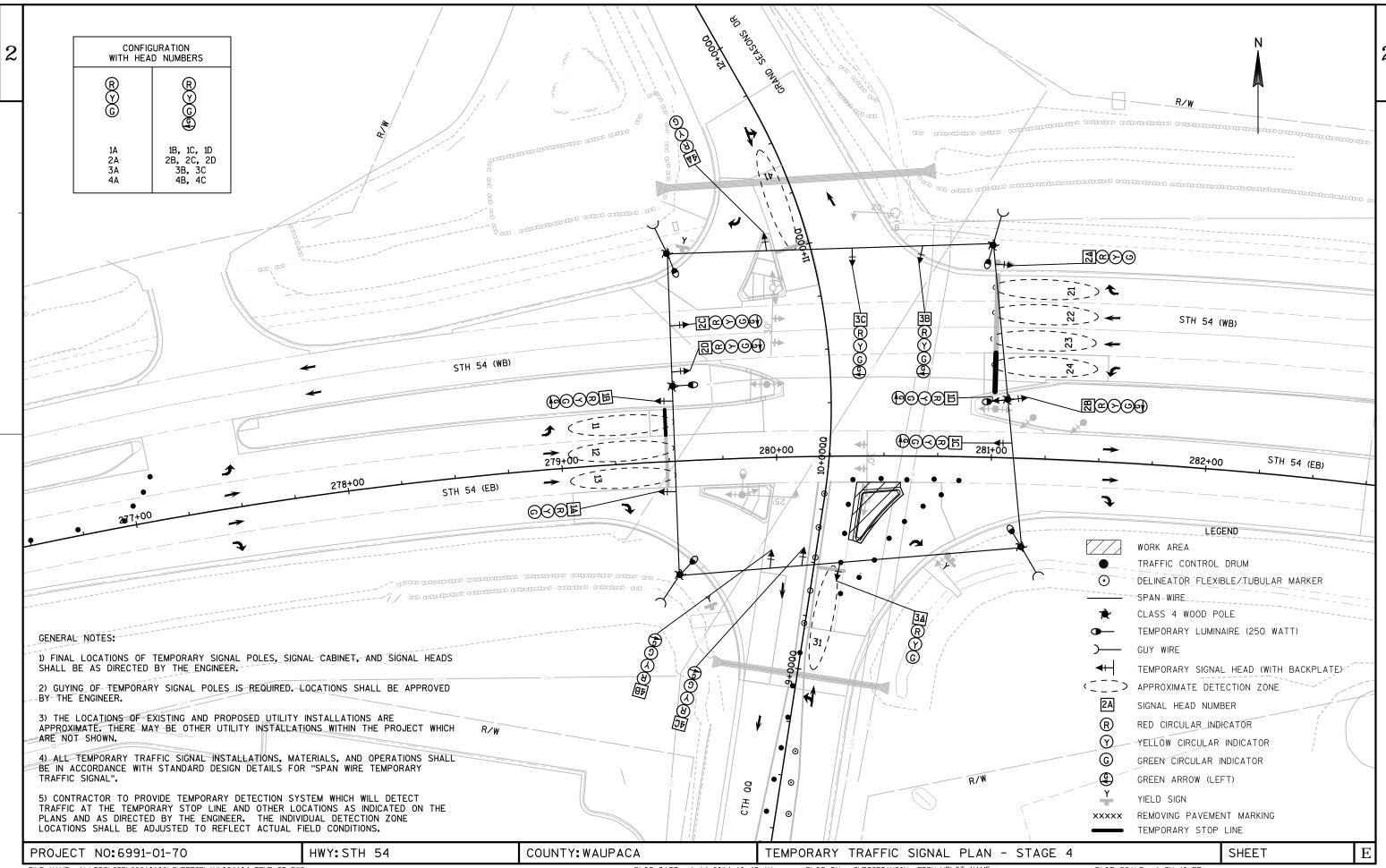
^{*}At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded

[&]quot;Other" column may include shadow box sign









SEQUENCE OF OPERATION

02

CLEAR TO



 $R/W \mid X \mid X$

R R R

R R R

R R R

G G Y R

Ø1

 $R/W \mid X \mid X$

RRR

R R R

RRR

HEAD NUMBERS 1A, 1B, 1C, 1D

2A, 2B, 2C, 2D

3A, 3B, 3C

4A, 4B, 4C

HEAD NUMBERS

Ø2

ØЗ

Ø6

Ø7

Ø4P

Ø6P

Ø1 Ø2 Ø3

Ø5 Ø6 Ø7 Ø8

Ø4P

|Ø6P

RING 2 04

RING 1 Ø5

CLEAR TO

		ĺ
Ø3		Ø4

1			Ø	3				<u>Ø</u> 4						
			CL	EAR TO						CL	.EAF	₹	ТО	
l	R/W	X	*					R/W	**					
1														
	R	R	R					R	R	R				
l	R	R	R					R	R	R				
1	<u>G</u> G	Υ	R					R	R	R				
	R	R	R					Ģ G	Υ	R				
1														

		DETEC	TOR OPE	RATION						
TECTOR JMBER	AMPLIFIER CHANNEL NUMBER	CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	PHAS NUMB
11				Х		1				1
12				Х		1				2
13				Х		1				3
21				Х		2				4
22				Х		2				5
23				Х		2				6
24				X		2				7
31		X			3	3				8
41		Х			4	4				
										اما

DETECTOR LOGIC

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MIN	Х
2			MIN	Х
3	Х			Х
4	Χ			Х
5				
6				
7				
8				

OVERLAPS

0.L. "A" = NONE O.L. "B" = NONE O.L. "C" = NONE O.L. "D" = NONE

	NC US				N(US	DT ED		
	Ø	5			Ø	16		
	CL	.EAR	ТО		CL	.EAR	TO	
R/W	**			R/W	**			

				NC JS	DT ED)					NO US)		\
	1				Ø	8									
	1			CL	EAF	₹	ТО				CL	EAI	7	ТО	
	i	R/W	*-	X					R/W	X	*				
ı			1 1			l		l							

R/W	X	X			R/W	*	*			
										!
										l

TYPE OF INTERCONNECT COMMUNICATION	ATION
NONE	Х
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER	
CONTROLLER NO: S	
SIGNAL SYSTEM #: SS	

TYPE OF PRE-EMPT	
NONE	х
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	×
IN SEPARATE DOT LIGHTING CABINET	

BARRIER

CHART 1

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	NONE	2, 3, 4
2	NONE	1, 3, 4
3	NONE	1, 2, 4
4	NONE	1, 2, 3
5		
6		
7		
8	·	

GENERAL NOTES:

- 1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- 2. TEMPORARY CABINET SHALL BE SET UP TO ACCOMMODATE THE TEMPORARY DETECTION ZONES AS PLANNED FOR DURING THE VARIOUS STAGES. ADJUST THE ACTIVE DETECTORS ACCORDINGLY BASED ON THE PARTICULAR STAGE AND OPEN/CLOSED LANES.

TEMPORARY SIGNAL STH 54 & CTH QQ/GRAND SEASONS DR CITY OF WAUPACA WAUPACA COUNTY

SIGNAL NO. N/A CONTROLLER TYPE: TEMP

DATE ----PAGE NO. -ÐF

PROJECT NO:6991-01-70

HWY:STH 54

COUNTY: WAUPACA

SEQUENCE OF OPERATIONS - STAGES 1/2/3/4 PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:

SHEET

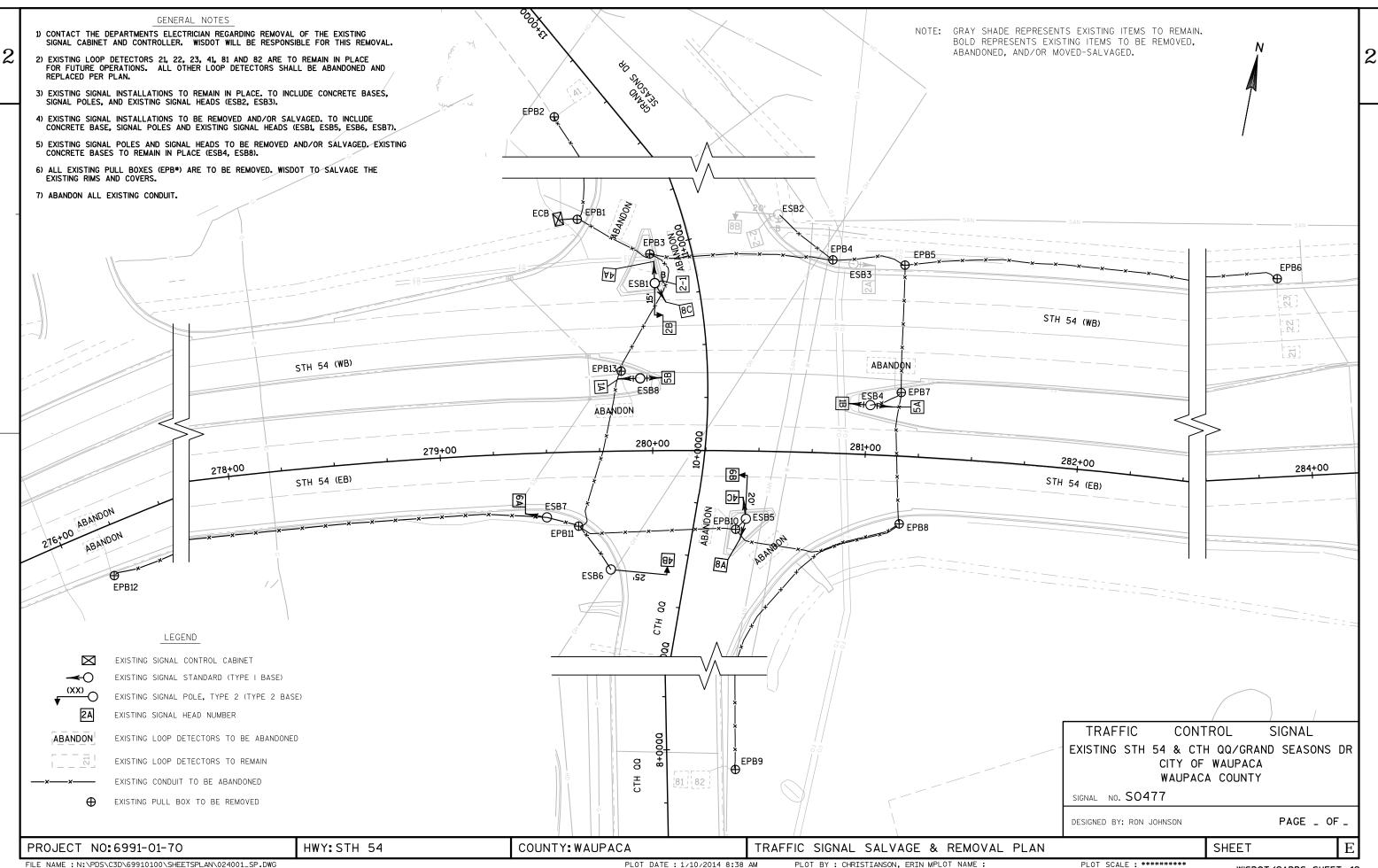
2

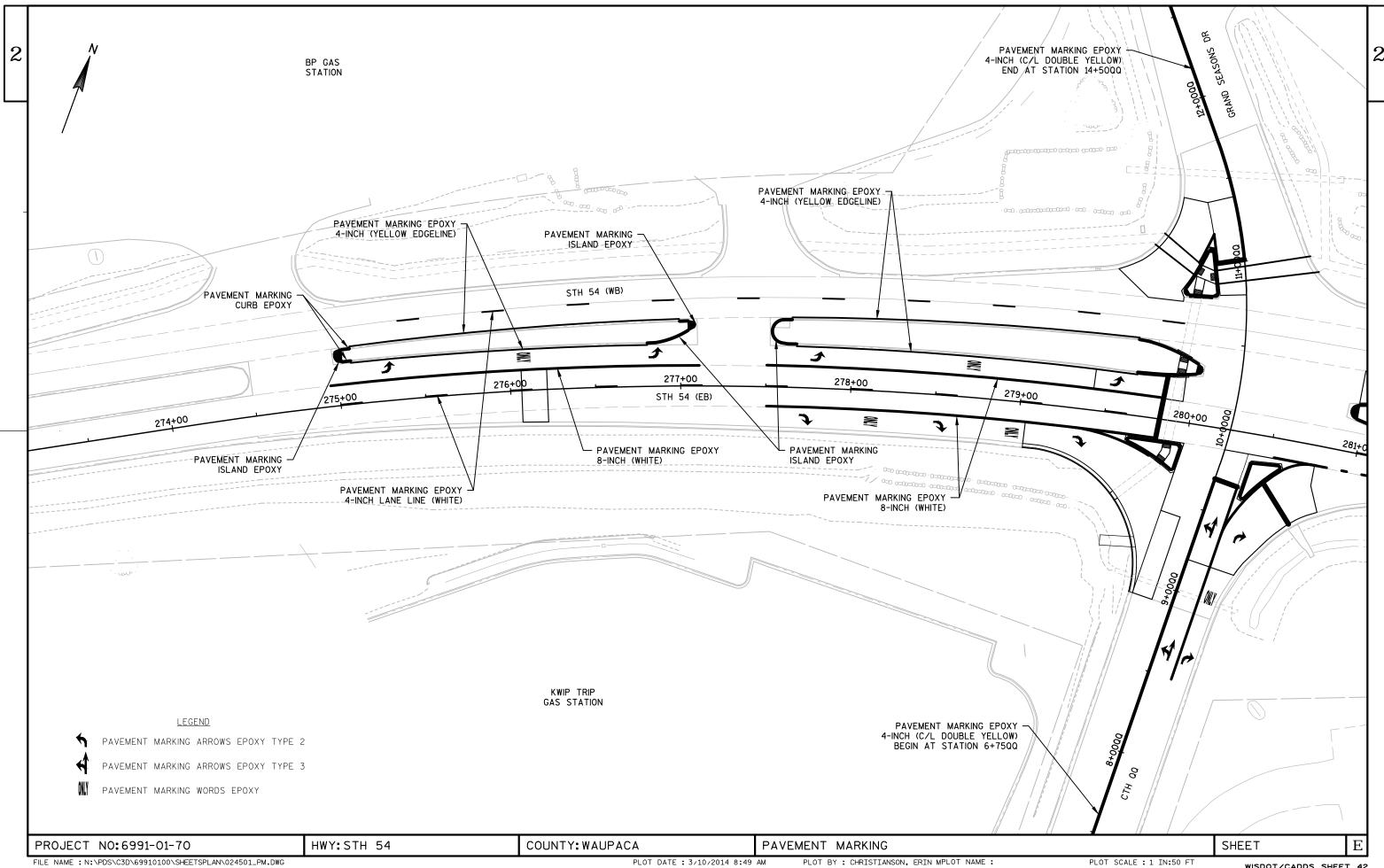
2

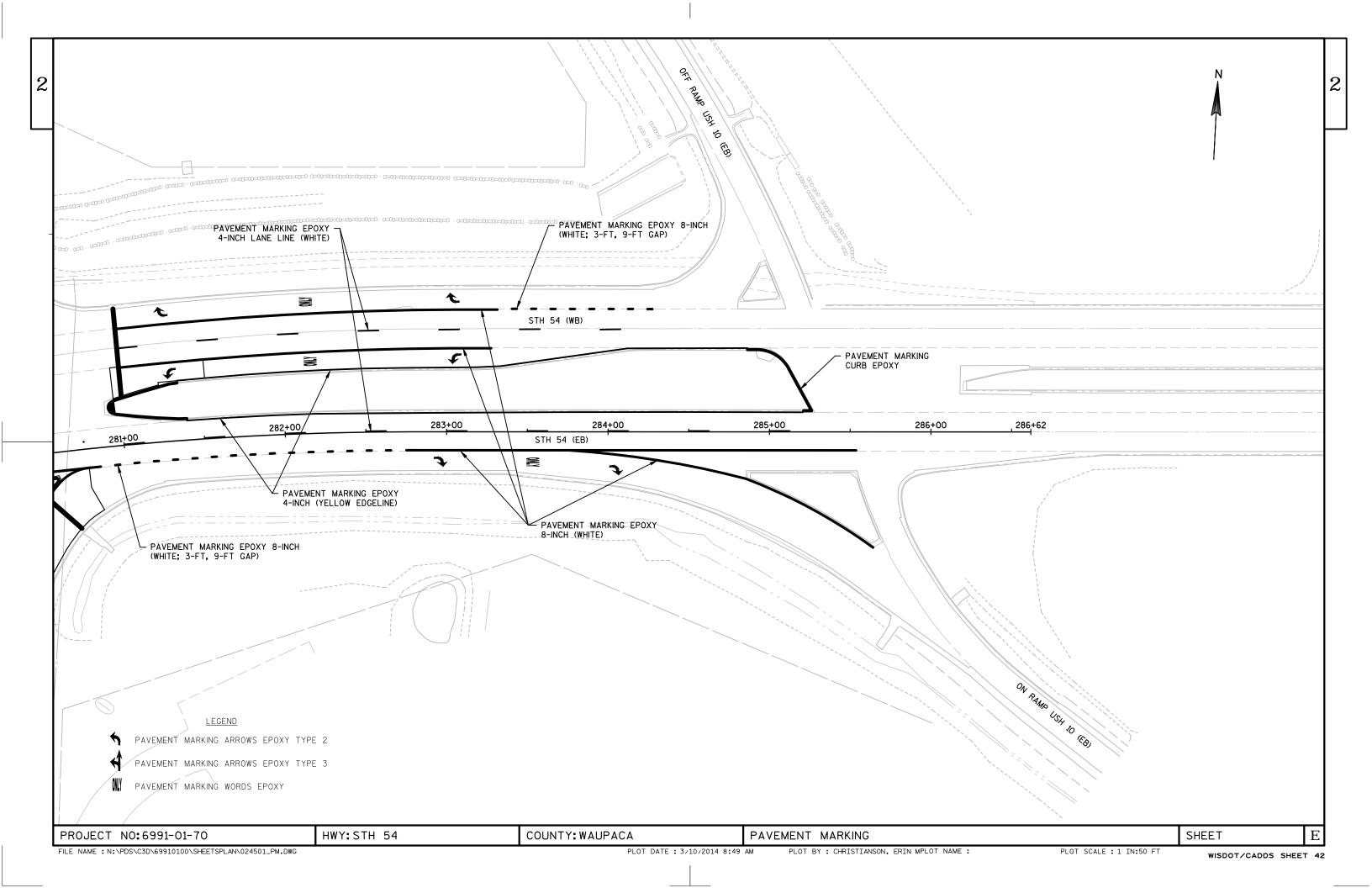
ACTUATED TIMING (STH 54 & CTH QQ Temp Signal, Stages 1 - 4)

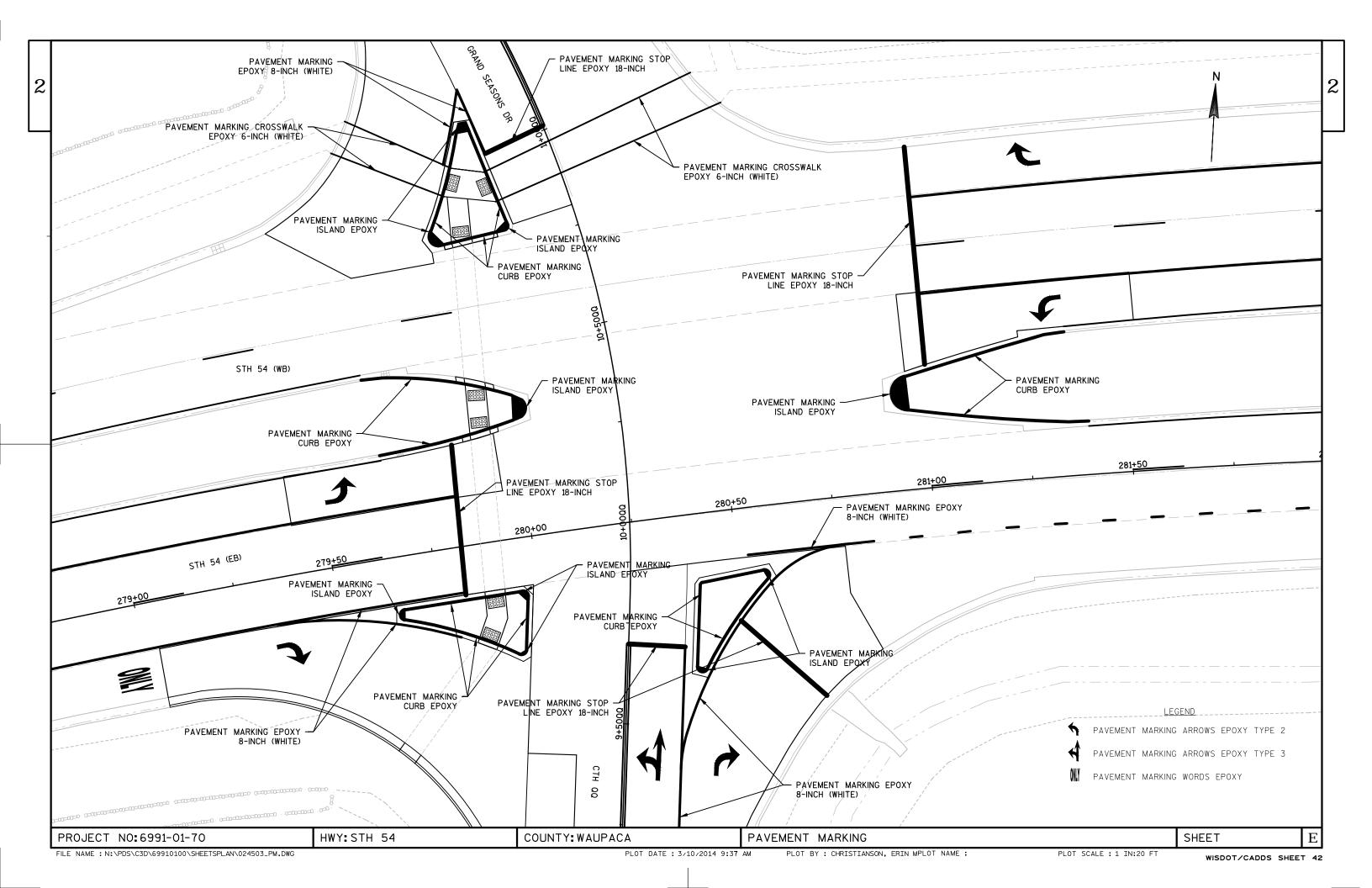
	PHASE	1	2	3	4	5	6	7	8
Min Green		15	15	10	10				
Passage		4.0	4.0	3.0	3.0				
Max 1		30	30	25	20				
Max 2									
Yellow		4.5	4.5	3.0	3.0				
Red		2.0	2.0	4.5	3.5				
TBR		10	10	8	6				
TTR		10	10	8	6				
Min Gap		2.0	2.0	2.0	2.0				

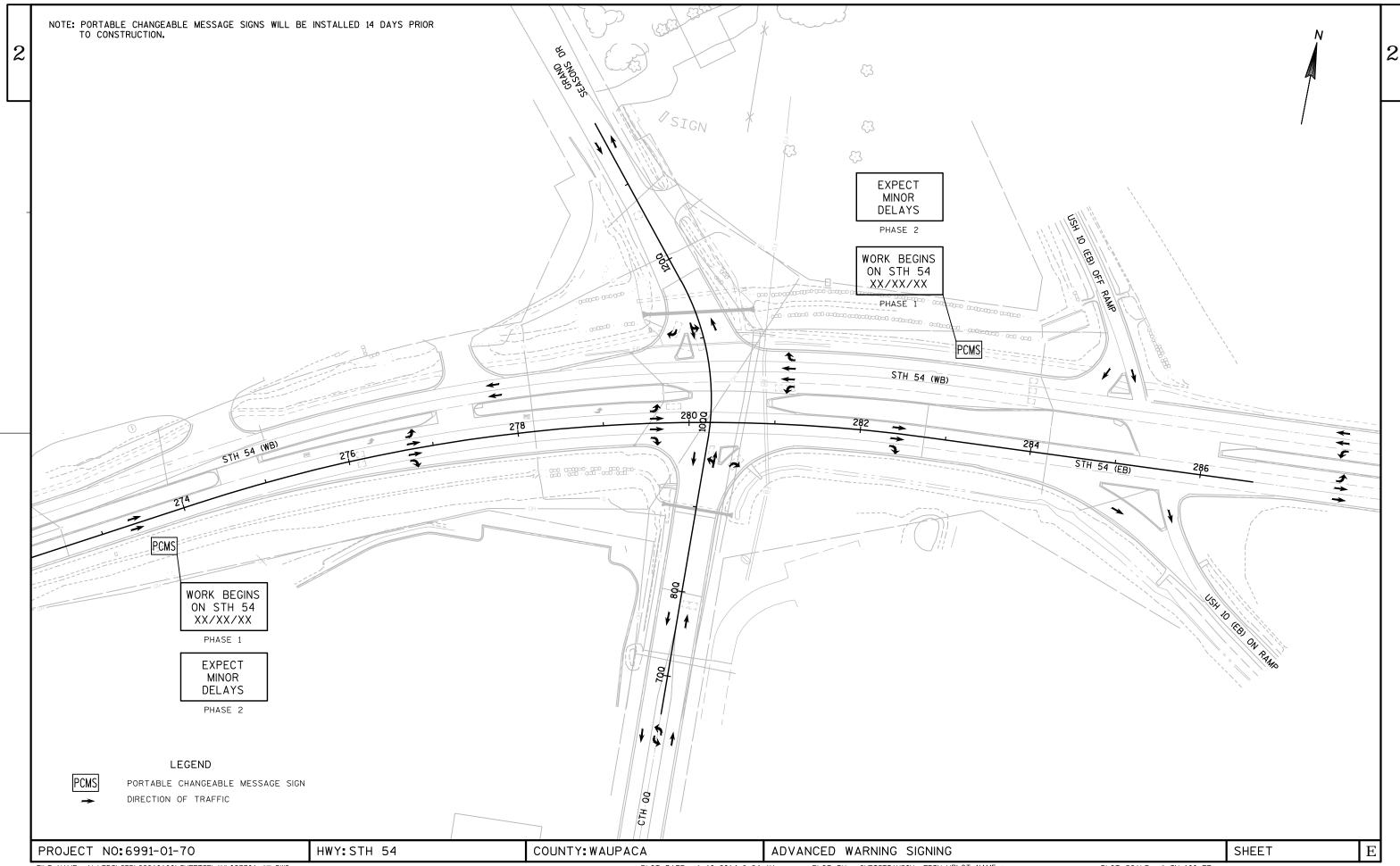
PROJECT NO:6991-01-70 HWY:STH 54 COUNTY:WAUPACA TEMPORARY SIGNAL TIMING - STH 54 & CTH QQ/GRAND SEASONS SHEET F





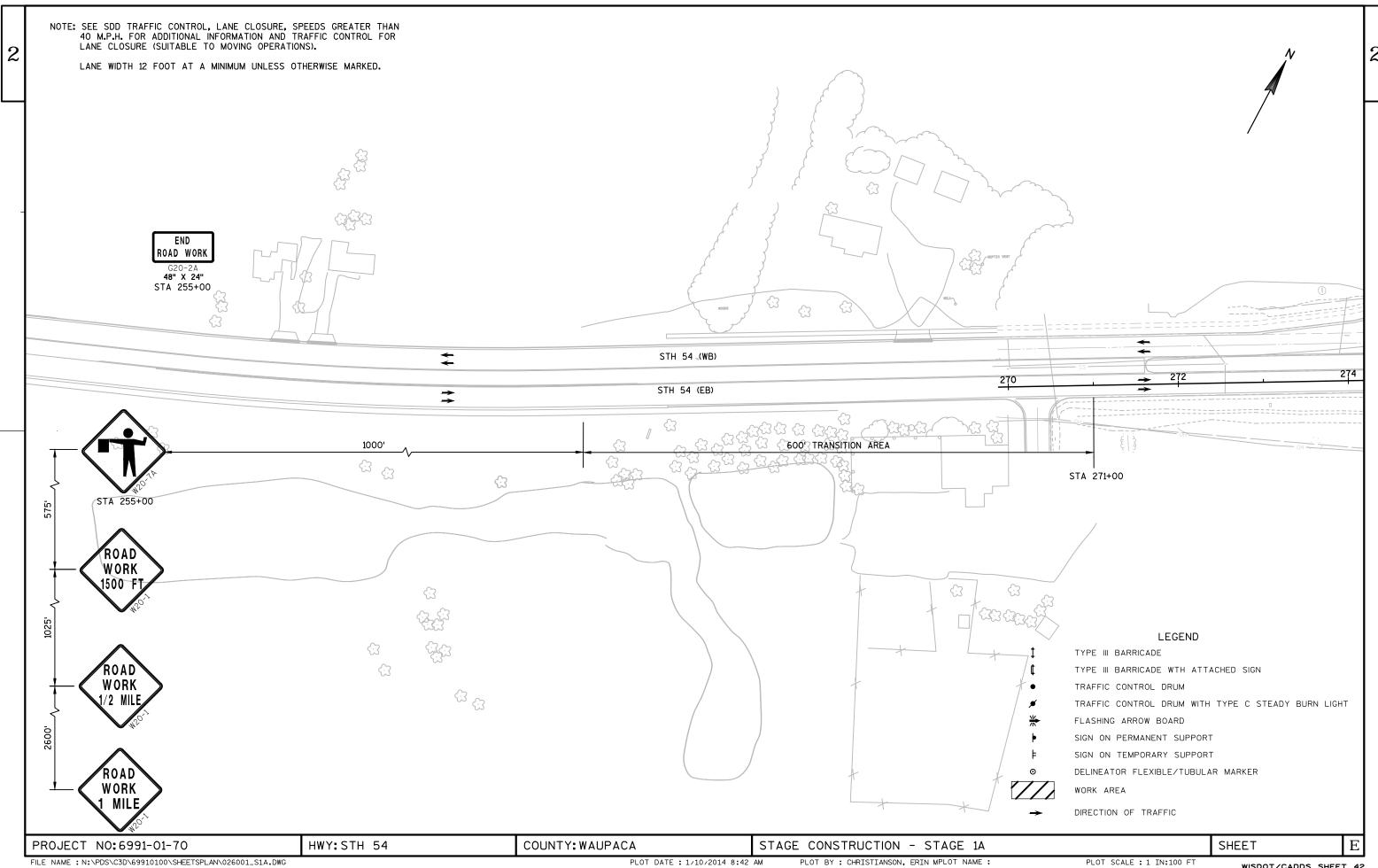


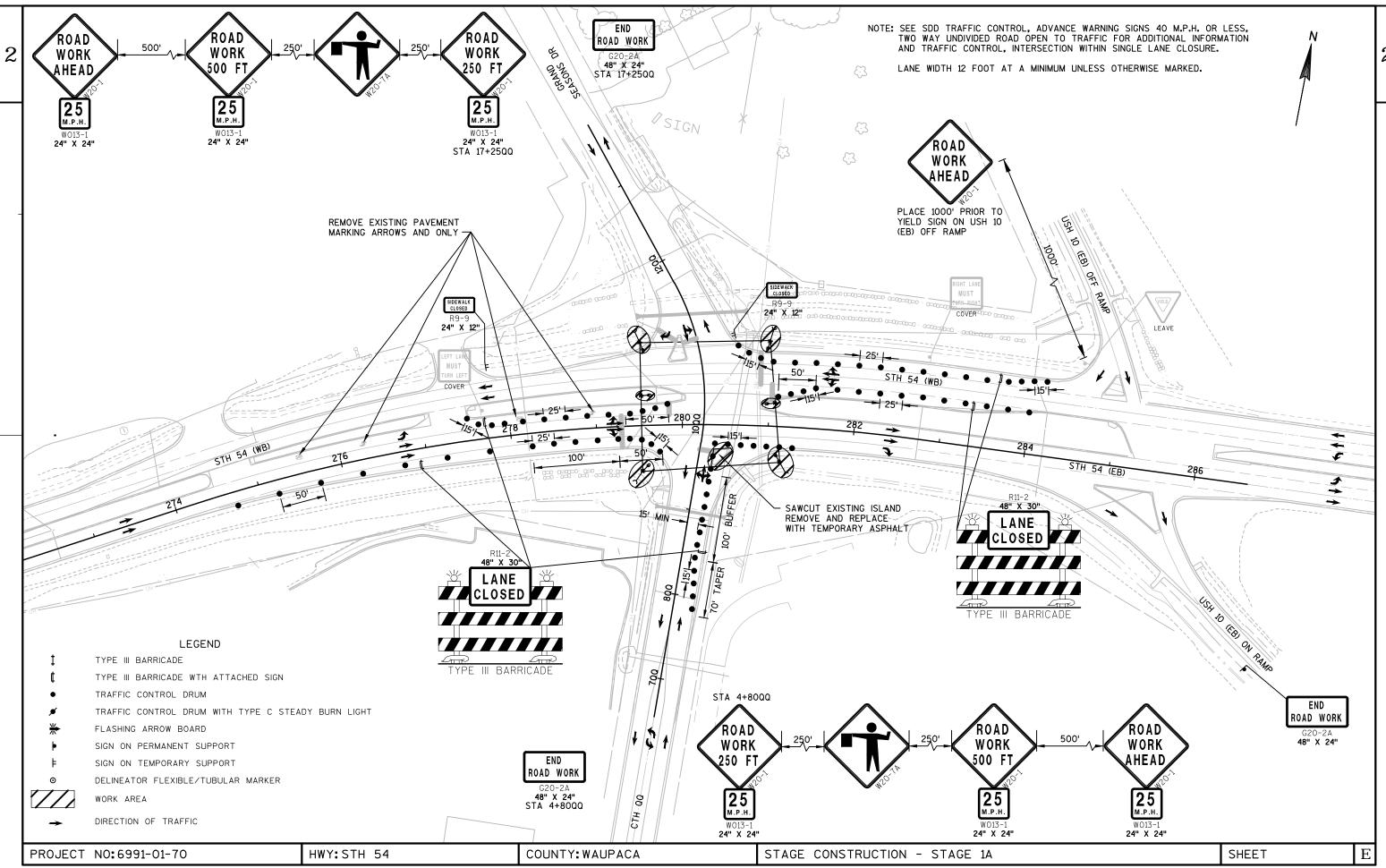


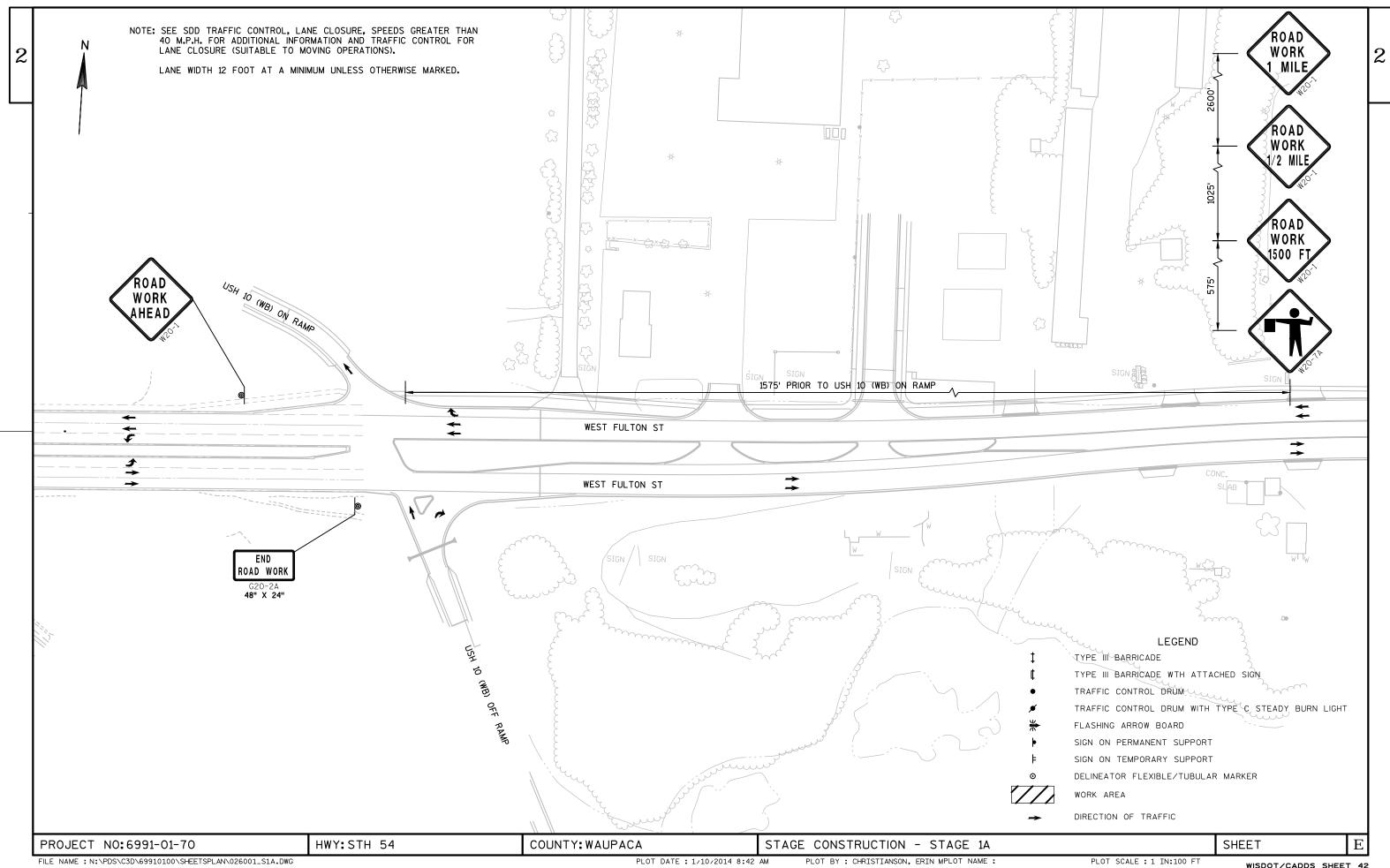


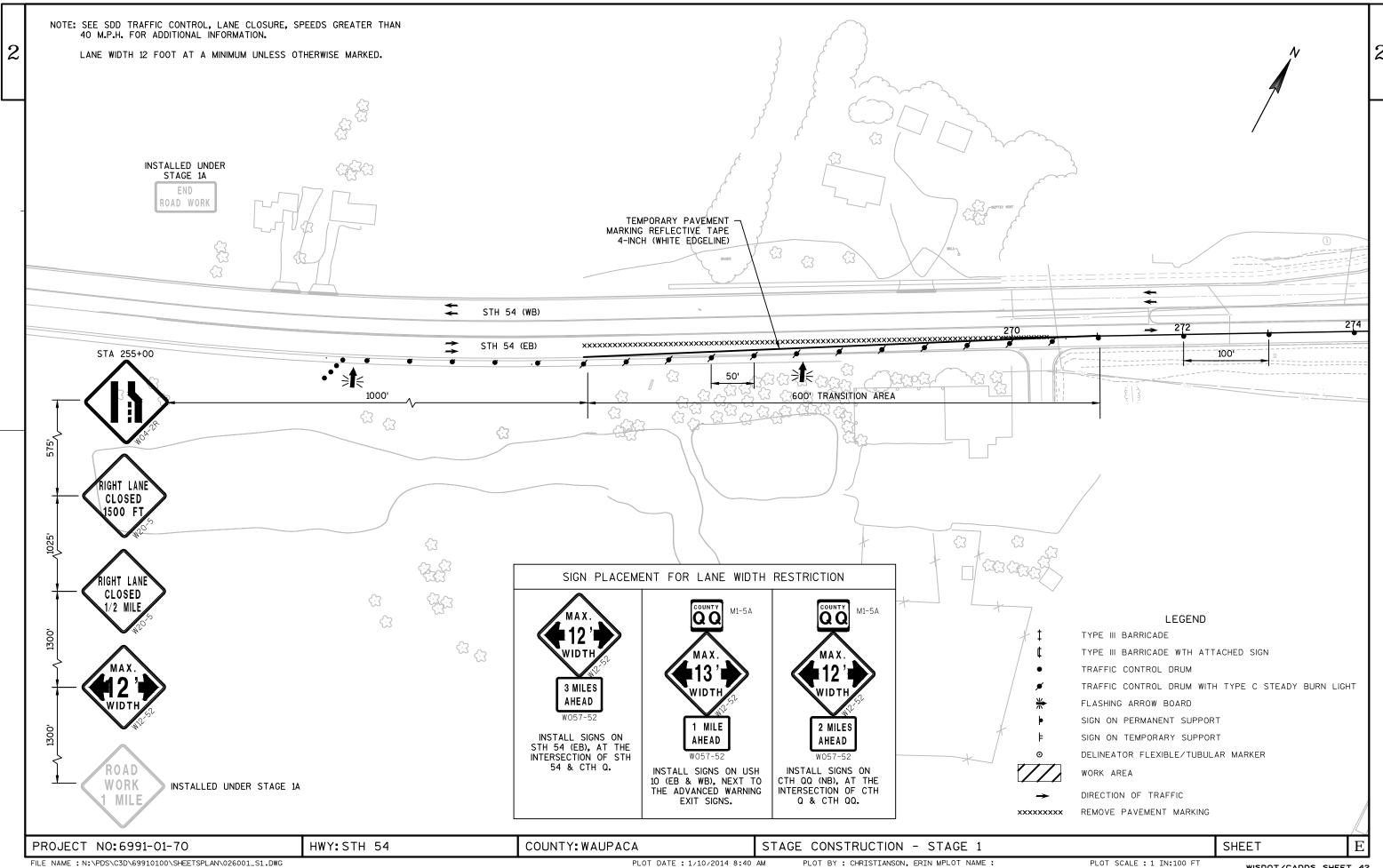
FILE NAME: N:\PDS\C3D\69910100\SHEETSPLAN\023301_AW.DWG

PLOT DATE: 1/10/2014 8:24 AM
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:
WISDOT/CADDS SHEET 42



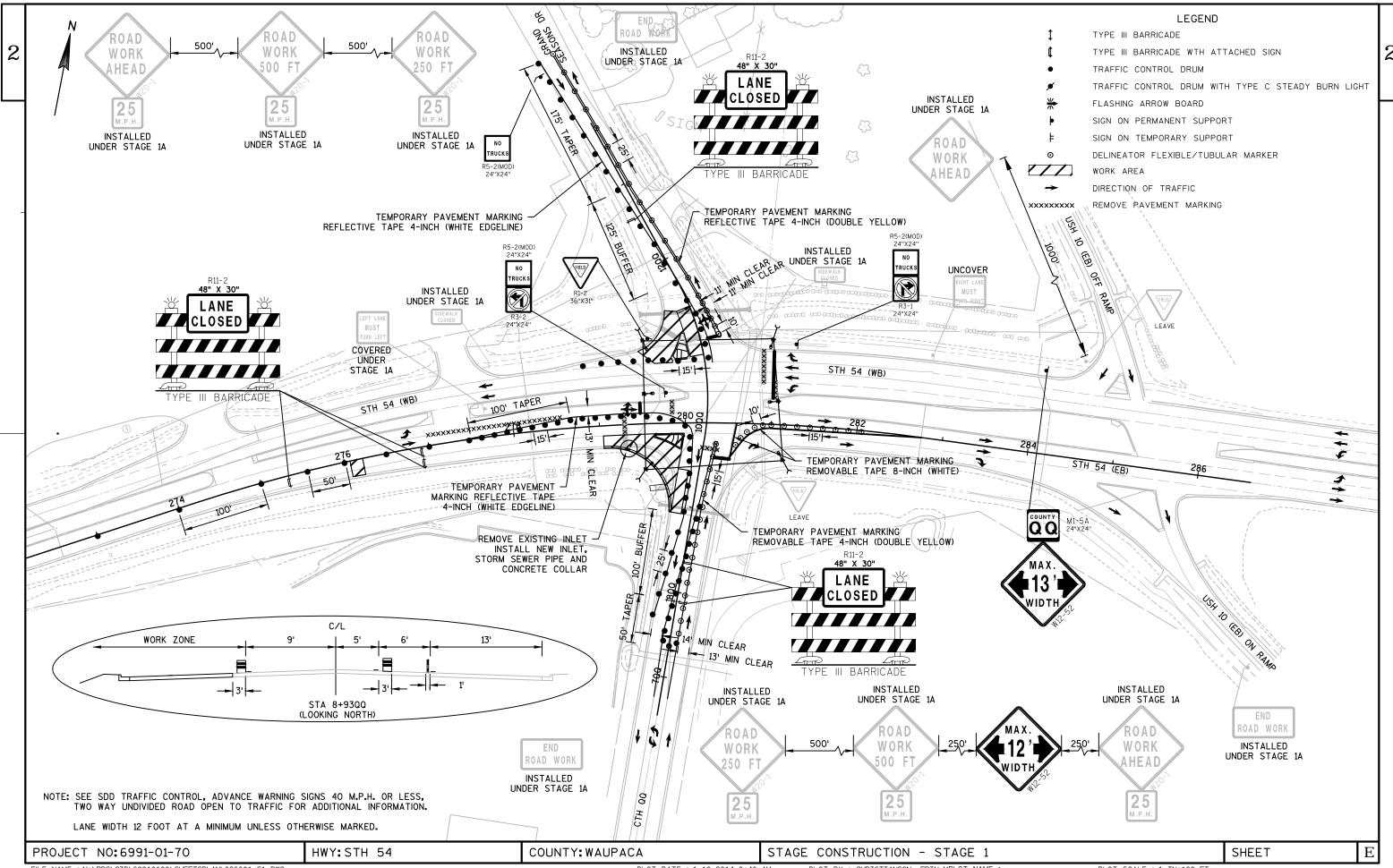




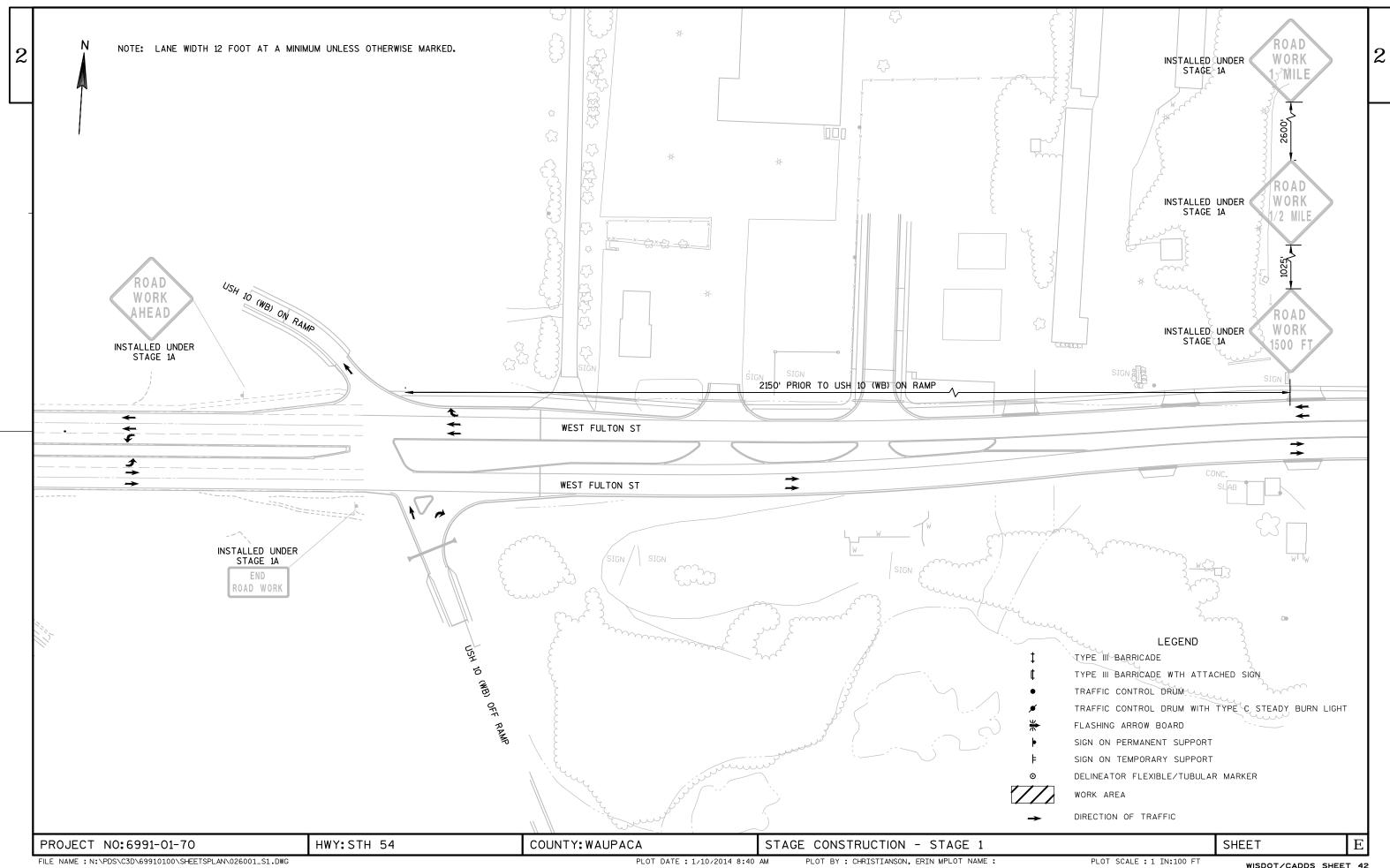


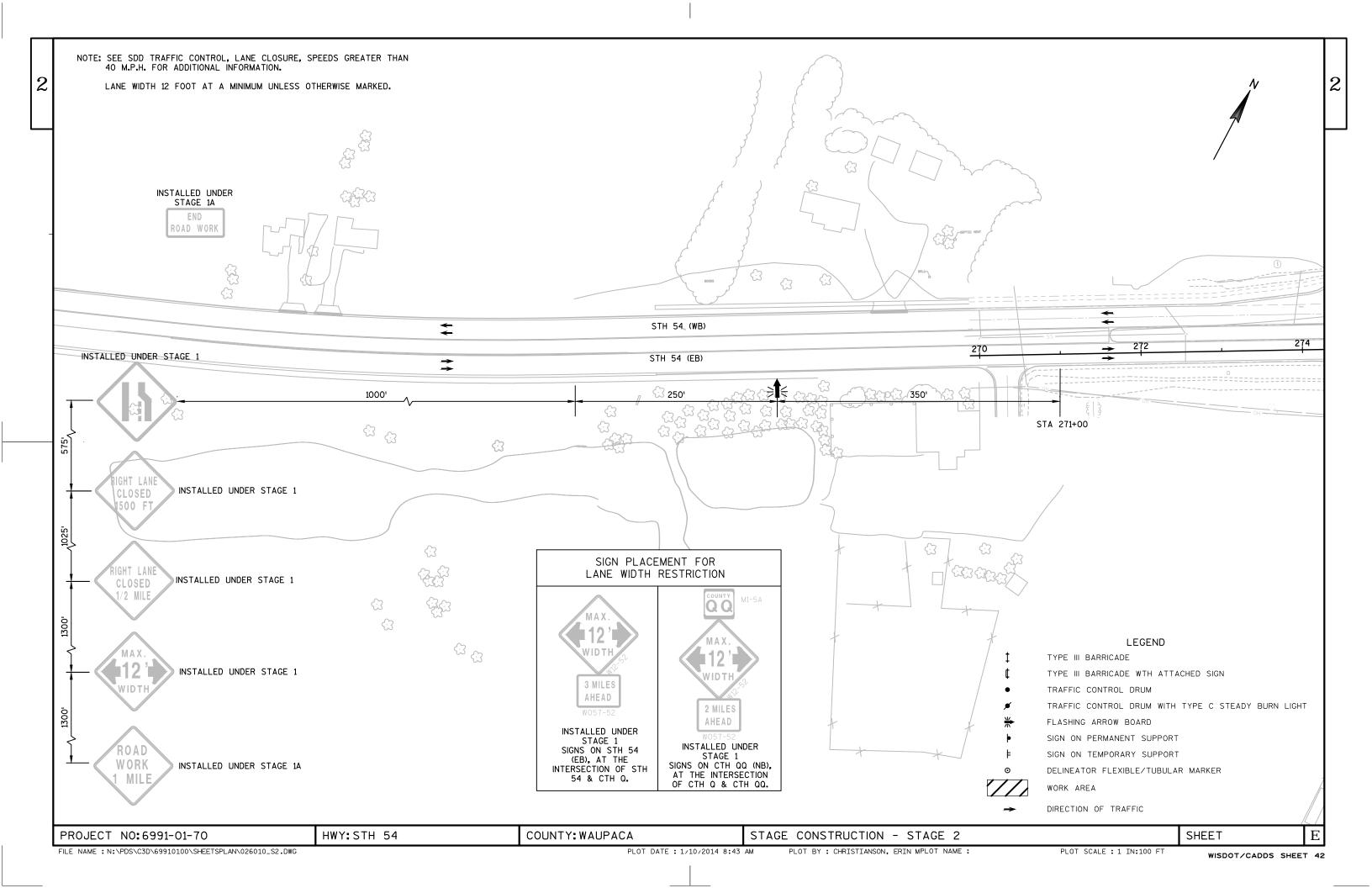
FILE NAME : N:\PDS\C3D\69910100\SHEETSPLAN\026001_S1.DWG

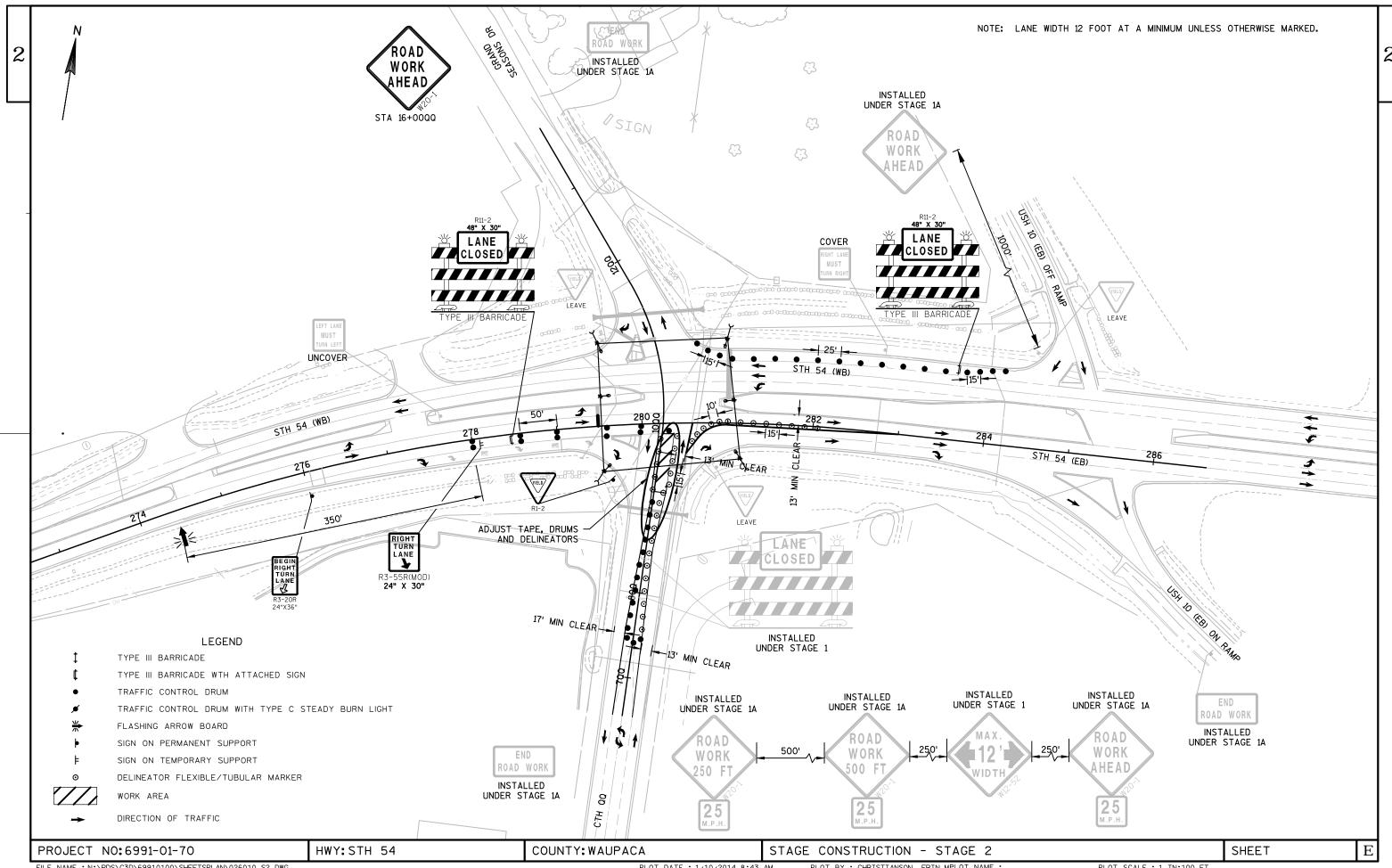
PLOT SCALE : 1 IN:100 FT

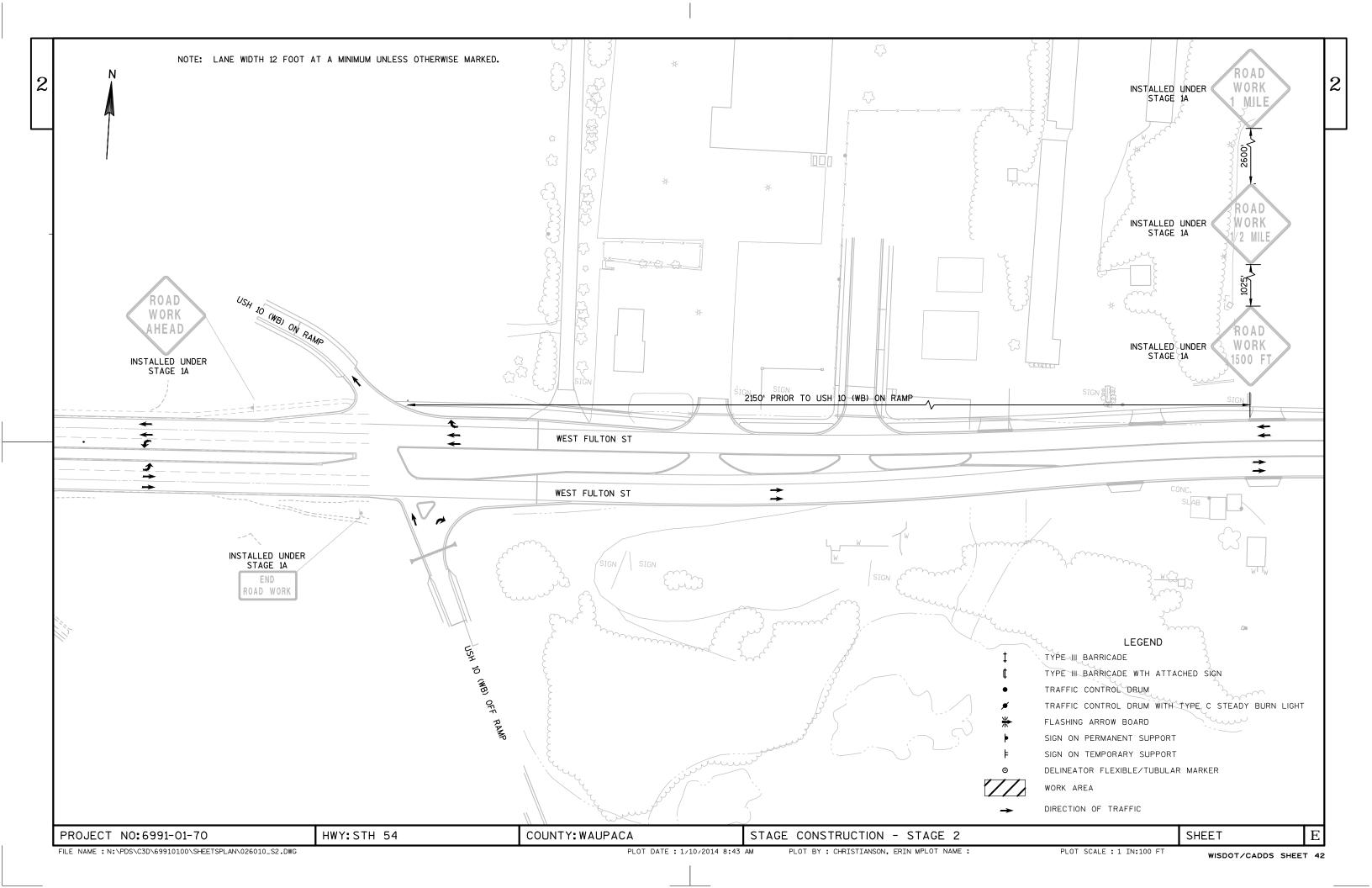


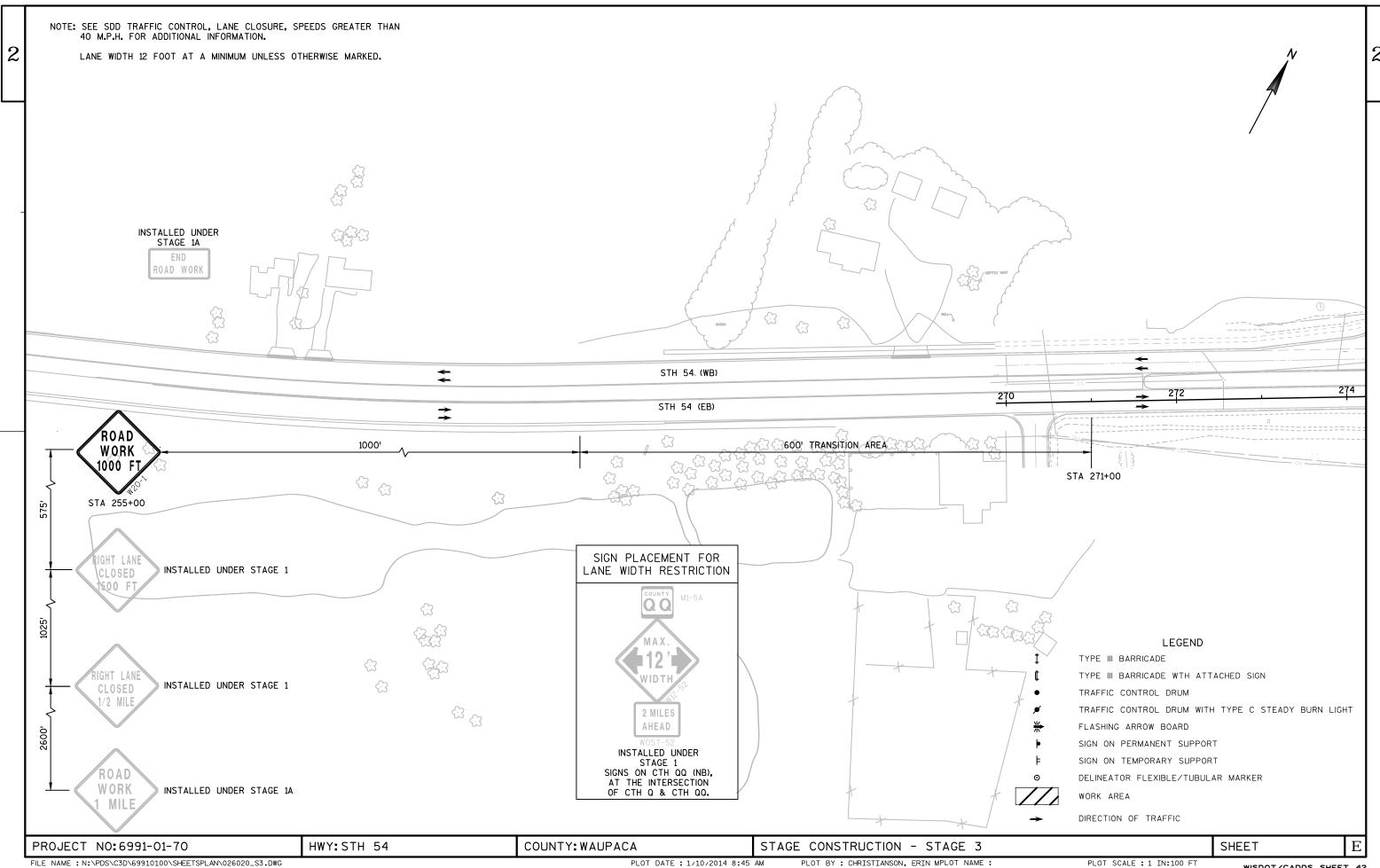
FILE NAME: N:\PDS\C3D\69910100\SHEETSPLAN\026001_S1.DWG PLOT DATE: 1/10/2014 8:40 AM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42

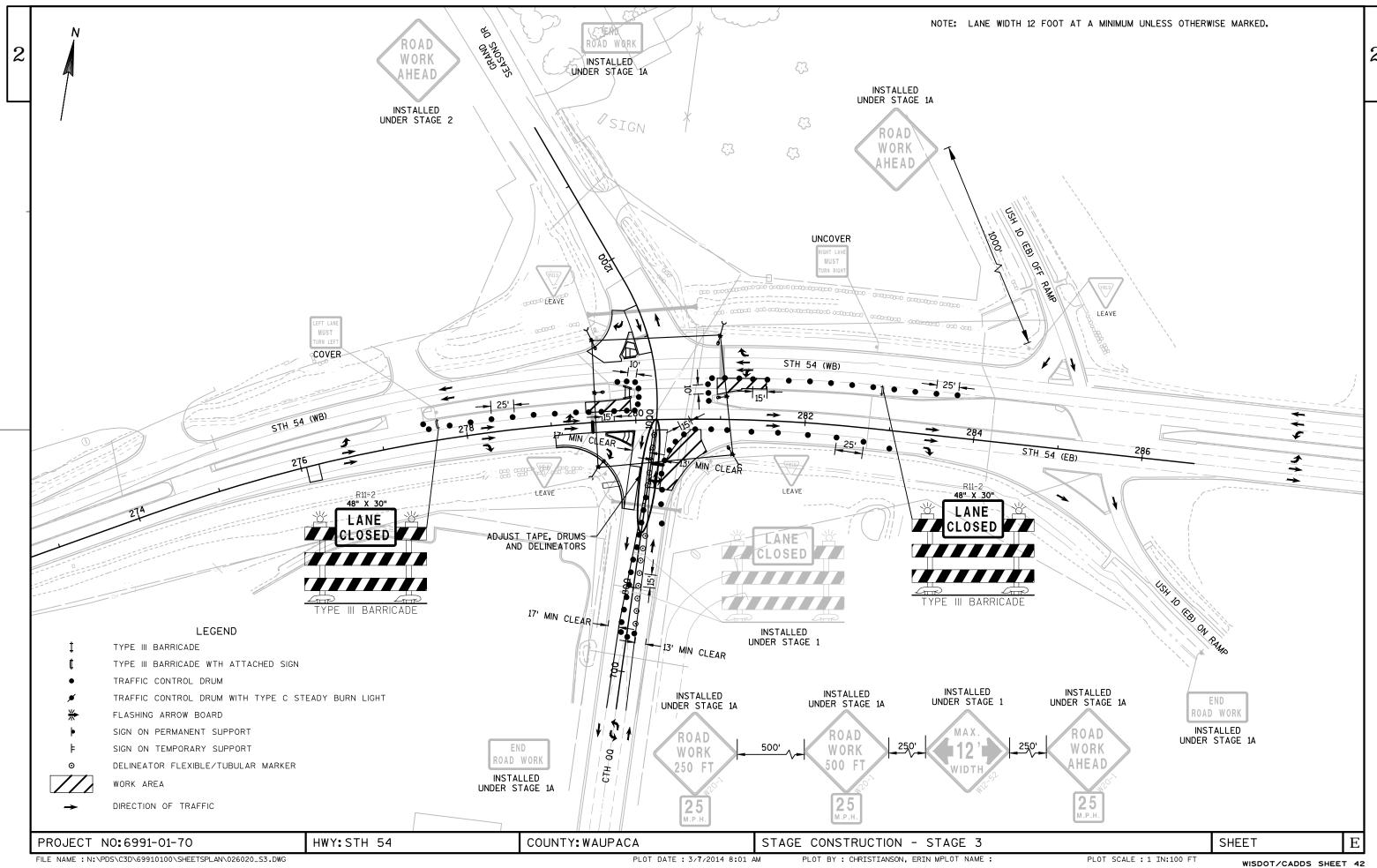


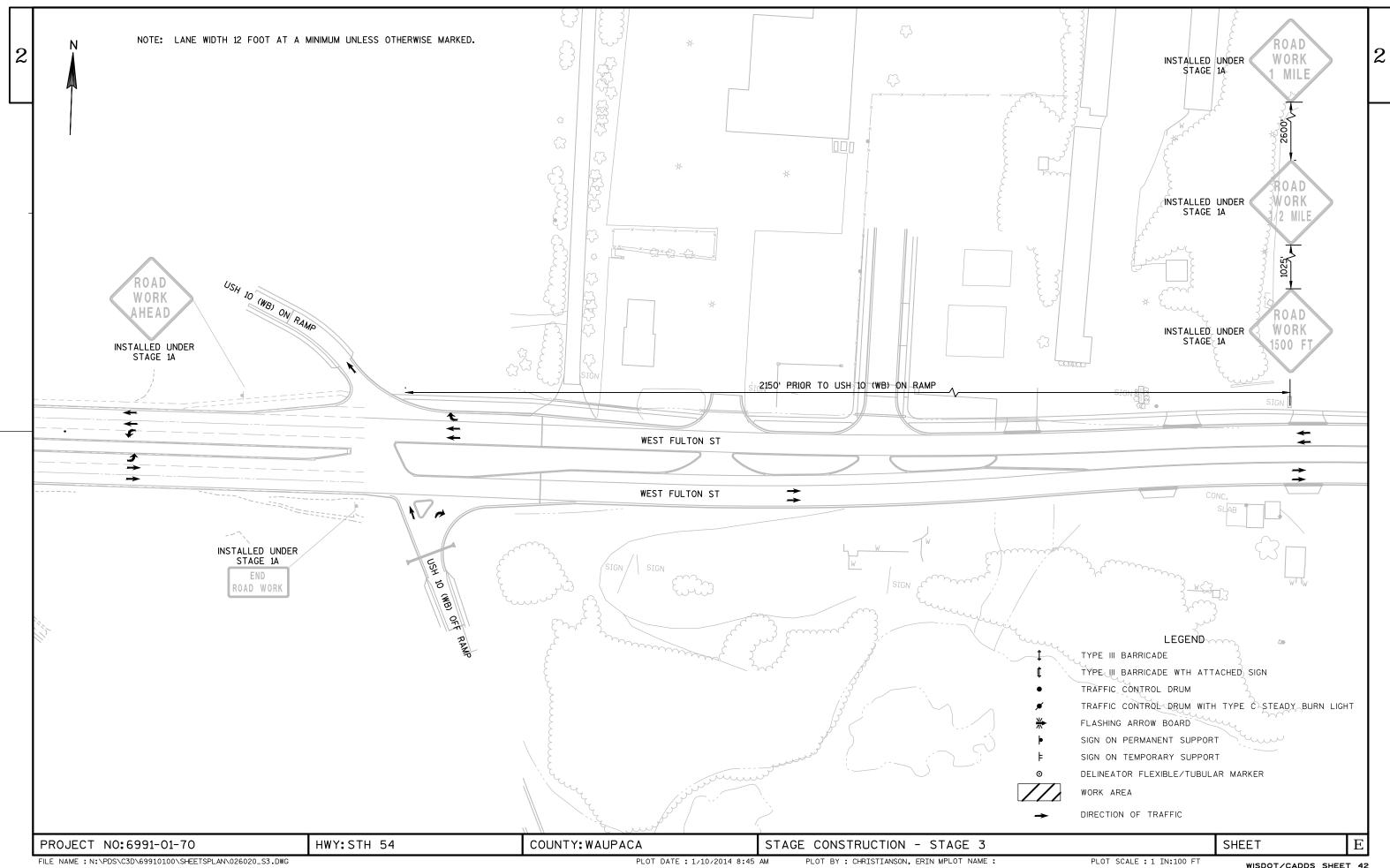


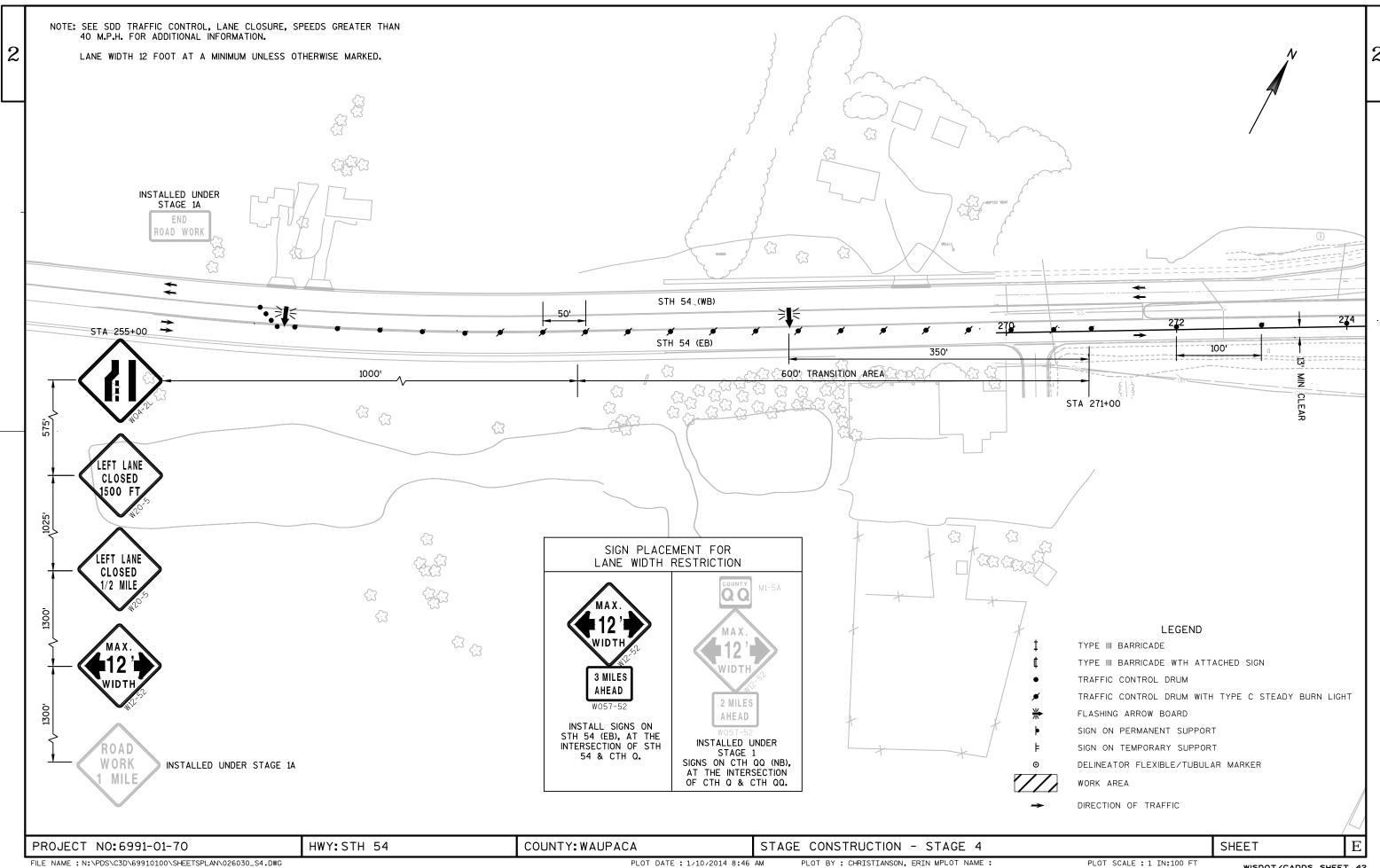


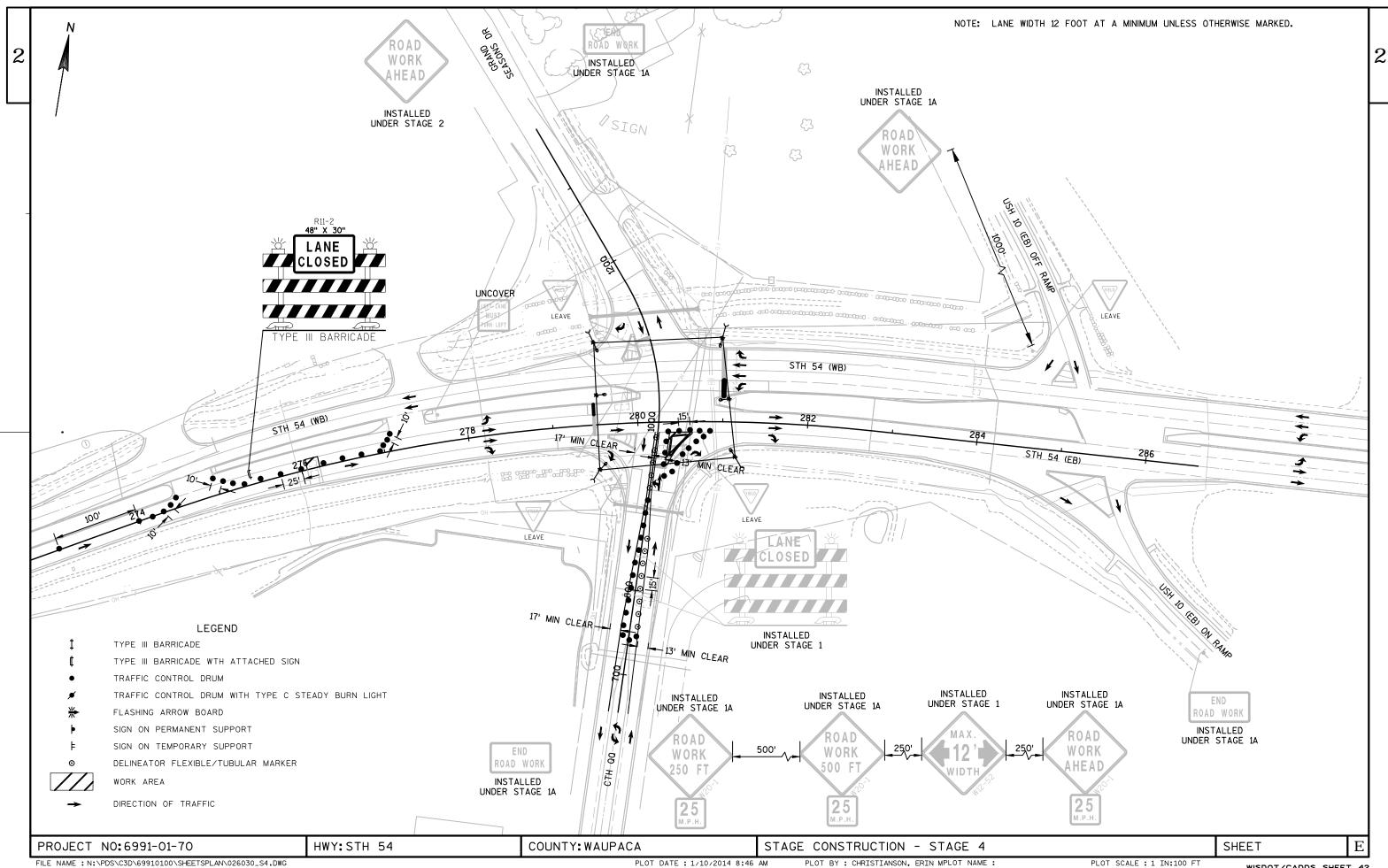


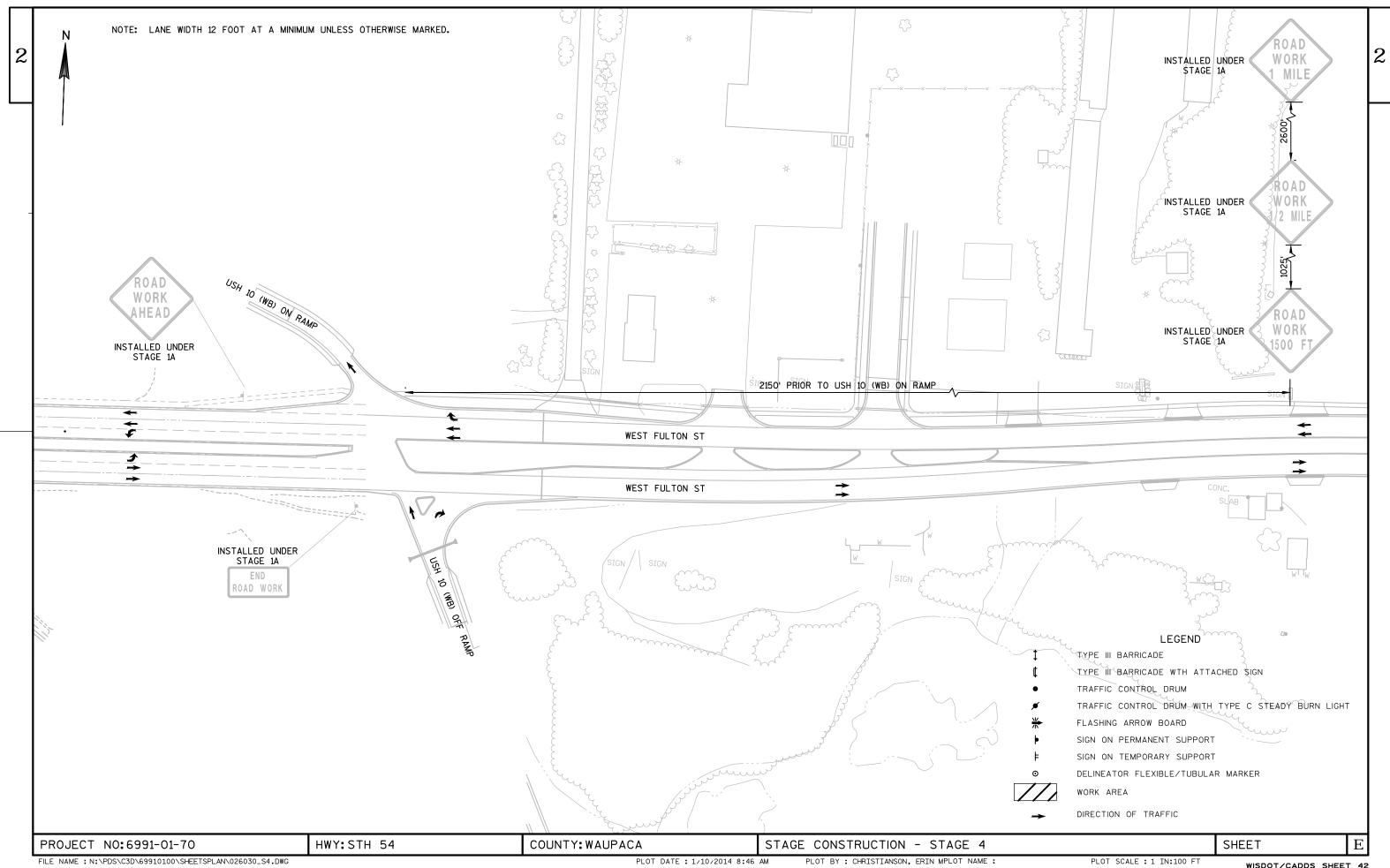


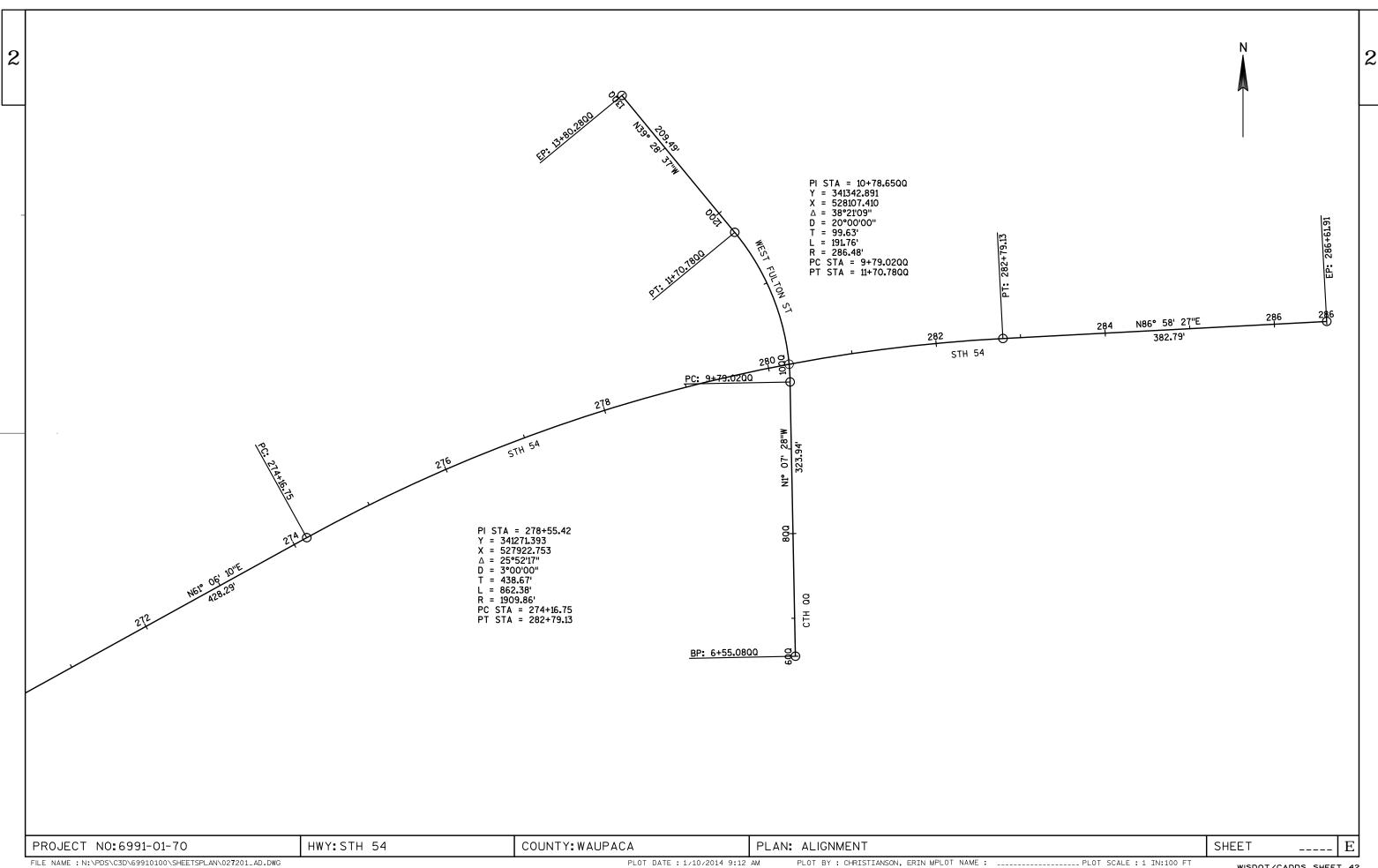












DATE 1	2MAR14	EST	IMAT	E O F Q U A N	
LI NE NUMBER	LTEM	ITEM DESCRIPTION	UNI T	TOTAL	6991-01-70 QUANTI TY
0010	204. 0100	REMOVING PAVEMENT	SY	1, 163. 000	1, 163. 000
0020	204. 0110	REMOVING ASPHALTIC SURFACE	SY	70. 000	70. 000
0030	204. 0150	REMOVING CURB & GUTTER	LF	110. 000	110. 000
0040	204. 0195	REMOVING CONCRETE BASES	EACH	6.000	6.000
0050	204. 0220	REMOVING INLETS	EACH	1. 000	1. 000
	204 0245	DEMOVENCE CTORM CEWED (CLZE) 01 12 INCH		10,000	10,000
0060	204. 0245	REMOVING STORM SEWER (SIZE) 01. 12-INCH	LF LS	10.000	10. 000 1. 000
0070	205. 9015. 3	GRADING SHAPING & FINISHING INTERSECTION (LOCATION) 01. STH 54 &	LS	1. 000	1.000
		CTH QQ/GRAND SEASON DR			
0800	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000
0000	2.0.0.00	6991-01-70	27.07.		
0090	305.0125	BASE AGGREGATE DENSE 1 1/4-INCH	CY	134.000	134.000
0100	415. 1090	CONCRETE PAVEMENT HES 9-INCH	SY	1, 169. 000	1, 169. 000
0110	416. 0610	DRILLED TIE BARS	EACH	389. 000	389. 000
0120	416. 0620	DRI LLED DOWEL BARS	EACH	225. 000	225. 000
0130	465. 0105	ASPHALTI C SURFACE	TON	6. 000	6. 000
0140	465. 0125	ASPHALTIC SURFACE TEMPORARY	TON	8. 000	8.000
0150	465. 0315	ASPHALTIC FLUMES	SY	12. 000	12. 000
0160	520. 8000	CONCRETE COLLARS FOR PIPE	EACH	1. 000	1. 000
0160	602. 0505	CURB RAMP DETECTABLE WARNING FIELD	SF	56. 000	56. 000
0170	002.0000	YELLOW	JI	30.000	30.000
0180	606. 0100	RI PRAP LI GHT	CY	35. 000	35. 000
0190	608. 0312	STORM SEWER PIPE REINFORCED CONCRETE	LF	14. 000	14. 000
5.70	555. 551 <u>E</u>	CLASS III 12-INCH		7 1. 000	. 1. 000
0200	611. 0624	INLET COVERS TYPE H	EACH	1. 000	1. 000
0210	411 2220	INIETS 2V2 ET	EACH	1 000	1 000
0210	611. 3230	INLETS 2X3-FT	EACH	1.000	1.000
0220	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 6991-01-70	EACH	1. 000	1. 000
0230	619. 1000	MOBILIZATION	EACH	1. 000	1. 000
0230	628. 1504	SILT FENCE	LF	110. 000	110. 000
0250	628. 1520	SILT FENCE MAINTENANCE	LF	110.000	110.000
0260	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	2. 000	2. 000
0270	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1. 000	1.000
0280	628. 2008	EROSION MAT URBAN CLASS I TYPE B	SY	450.000	450.000
0290	628. 7015	INLET PROTECTION TYPE C	EACH	4. 000	4. 000
0300	628. 7555	CULVERT PIPE CHECKS	EACH	5. 000	5. 000
0210	424 0412	DOSTS WOOD AVAINGU V 12 FT	EACH.	2 000	2 000
0310	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	2.000	2.000
0320	634. 0616	POSTS WOOD 4X6-INCH X 16-FT SIGNS TYPE II REFLECTIVE H	EACH SF	6. 000 100, 500	6. 000 100, 500
0330 0340	637. 2210 637. 2215	SIGNS TYPE IT REFLECTIVE H SIGNS TYPE IT REFLECTIVE H FOLDING	SF SF	100. 500 44. 760	100. 500 44. 760
0340	637. 2215	SIGNS TYPE IT REFLECTIVE H FOLDING SIGNS TYPE IT REFLECTIVE F	SF SF	10. 250	10. 250
5550	037.2230	STORE THE TENEDLE OF THE	51	10. 230	10. 230
0360	638. 2602	REMOVING SIGNS TYPE II	EACH	13. 000	13. 000
0370	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	3. 000	3. 000
0380	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000
0390	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 6991-01-70	EACH	1. 000	1. 000
0400	643. 0300	TRAFFIC CONTROL DRUMS	DAY	2, 699. 000	2, 699. 000
0410	643. 0410	TRAFFIC CONTROL BARRICADES TYPE II	DAY	33.000	33.000
0420	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	181. 000	181. 000
0430	643. 0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	EACH	60. 000	60. 000
04.0		POSTS	E401:	/ 0 000	10.000
0440	643. 0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	EACH	60. 000	60. 000
0.450	442 0705	BASES TRACELC CONTROL WARNING LIGHTS TYPE A	DAV	70.000	70.000
	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	70. 000	70. 000
0450					
		TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	494 000	494 000
0450 0460 0470	643. 0715 643. 0800	TRAFFIC CONTROL WARNING LIGHTS TYPE C TRAFFIC CONTROL ARROW BOARDS	DAY DAY	494. 000 84. 000	494. 000 84. 000

DATE 12	2MAR14	E S T	IMAT	E O F Q U A N	TITIES
LI NE NUMBER	LTEM	ITEM DESCRIPTION	UNI T	TOTAL	6991-01-70 QUANTI TY
0480	643. 0900	TRAFFIC CONTROL SIGNS	DAY	1, 990. 000	1, 990. 000
0490	643. 0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	4.000	4.000
0500	643. 1050	TRAFFIC CONTROL SIGNS PCMS	DAY 	28. 000	28. 000
0510	645. 0130	GEOTEXTILE FABRIC TYPE R	SY	120.000	120.000
0520 0530	646. 0106 646. 0126	PAVEMENT MARKING EPOXY 4-INCH PAVEMENT MARKING EPOXY 8-INCH	LF LF	3, 387. 000 1, 995. 000	3, 387. 000 1, 995. 000
0540	646. 0600	REMOVING PAVEMENT MARKINGS	LF	2, 565. 000	2, 565. 000
0550	647. 0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	15. 000	15. 000
0560	647. 0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	2. 000	2. 000
0570	647. 0356	PAVEMENT MARKING WORDS EPOXY	EACH	8. 000	8. 000
0580 0590	647. 0456 647. 0566	PAVEMENT MARKING CURB EPOXY PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF LF	494. 000 149. 000	494. 000 149. 000
0600	647. 0606	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	EACH	12. 000	12. 000
0610	647 0766	DAVEMENT MADVING CDOSSWALV EDOVY & INCL	I F	177 000	177 000
0610 0620	647. 0766 647. 0955	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH REMOVING PAVEMENT MARKINGS ARROWS	LF EACH	177. 000 4. 000	177. 000 4. 000
0630	647. 0965	REMOVING PAVEMENT MARKINGS WORDS	EACH	4.000	4. 000
0640	649. 0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	3, 225. 000	3, 225. 000
0650	649. 0801	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH	LF	1, 316. 000	1, 316. 000
0660	649. 1200	TEMPORARY PAVEMENT MARKING STOP LINE	LF	41. 000	41. 000
3000	317. 1200	REMOVABLE TAPE 18-I NCH		71.000	. 1. 000
0670	650. 4000	CONSTRUCTION STAKING STORM SEWER	EACH	1.000	1.000
0680 0690	650. 4500 650. 5000	CONSTRUCTION STAKING SUBGRADE CONSTRUCTION STAKING BASE	LF LF	187. 000 187. 000	187. 000 187. 000
0700	650. 5500 650. 5500	CONSTRUCTION STAKING BASE CONSTRUCTION STAKING CURB GUTTER AND	LF LF	217. 000	217. 000
		CURB & GUTTER			
0710	650. 8500	CONSTRUCTION STAKING ELECTRICAL	LS	1. 000	1.000
0720	650. 9910	INSTALLATIONS (PROJECT) 01. 6991-01-70 CONSTRUCTION STAKING SUPPLEMENTAL	LS	1. 000	1. 000
0720	000. 7710	CONTROL (PROJECT) 01. 6991-01-70	LJ	1.000	1.000
0730	652. 0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40	LF	814. 000	814. 000
0740	652. 0235	2-INCH CONDUIT RIGID NONMETALLIC SCHEDULE 40	LF	603.000	603. 000
		3-I NCH			
0750	652. 0615	CONDUIT SPECIAL 3-INCH	LF	1, 004. 000	1, 004. 000
0760	652. 0800	CONDUIT LOOP DETECTOR	LF	904.000	904.000
0770	653. 0140	PULL BOXES STEEL 24X42-INCH	EACH	17. 000	17. 000
0780	653. 0905	REMOVING PULL BOXES	EACH	13. 000	13.000
0790 0800	654. 0101 654. 0102	CONCRETE BASES TYPE 1 CONCRETE BASES TYPE 2	EACH EACH	3. 000 1. 000	3. 000 1. 000
0810 0820	654. 0110 654. 0217	CONCRETE BASES TYPE 10 CONCRETE CONTROL CABINET BASES TYPE 9	EACH EACH	2. 000 1. 000	2. 000 1. 000
0020	054. 0217	SPECIAL	LACT	1.000	1.000
0830	655. 0230	CABLE TRAFFIC SIGNAL 5-14 AWG	LF	1, 345. 000	1, 345. 000
0840 0850	655. 0240 655. 0260	CABLE TRAFFIC SIGNAL 7-14 AWG CABLE TRAFFIC SIGNAL 12-14 AWG	LF LF	757. 000 1, 220. 000	757. 000 1, 220. 000
0860	655. 0280	CABLE TRAFFIC SIGNAL 19-14 AWG	LF	80.000	80.000
0870 0880	655. 0305 655. 0515	CABLE TYPE UF 2-12 AWG GROUNDED ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	LF LF	285. 000 1, 690. 000	285. 000 1, 690. 000
0890	655. 0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	123. 000	123. 000
0900	655. 0700	LOOP DETECTOR LEAD IN CABLE	LF	5, 760. 000	5, 760. 000
0910	655. 0800	LOOP DETECTOR WIRE	LF	3, 645. 000	3, 645. 000
0920	657. 1345	INSTALL POLES TYPE 9	EACH	2.000	2. 000
0930	657. 1530	INSTALL MONOTUBE ARMS 30-FT	EACH	2. 000	2. 000

DATE 12	MAR14	E S T	I M A T	E O F Q U A N	FITIES 6991-01-70
	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0940	661. 0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 01. STH 54 & CTH OQ/GRAND SEASONS DR	LS	1. 000	1. 000
0950	690. 0150	SAWING ASPHALT	LF	57. 000	57. 000
0960	690. 0250	SAWING CONCRETE	LF	1, 404. 000	1, 404. 000
0970	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5. OO/HR	HRS	1, 200. 000	1, 200. 000
0980	ASP. 1T0G	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	1, 200. 000	1, 200. 000
0990	SPV. 0060	SPECIAL 01. CONTRACTOR PROVIDED HIGH-STRENGTH BOLT ASSEMBLIES FOR MONOTUBE ARMS 30-FT	EACH	2. 000	2. 000
1000	SPV. 0090	SPECIAL 01. CONCRETE CURB & GUTTER HES 18-INCH TYPE A	LF	206. 000	206. 000
1010	SPV. 0090	SPECIAL 02. CONCRETE CURB & GUTTER HES 30-INCH TYPE A	LF	125. 000	125. 000
1020	SPV. 0105	SPECIAL 01. REMOVE AND SALVAGE TRAFFIC SIGNALS (STH 54 & CTH QQ/GRAND SEASONS DR)	LS	1.000	1. 000
1030	SPV. 0105	SPECIAL 02. TRANSPORT AND INSTALL DEPARTMENT FURNISHED TRAFFIC SIGNAL AND LIGHTING	LS	1. 000	1. 000
1040	SPV. 0105	SPECIAL 03. REMOVE AND SALVAGE LOCAL LIGHT POLE (STA 279+40, 30 FT RT)	LS	1. 000	1. 000
1050	SPV. 0105	SPECIAL 04. TRANSPORT DEPARTMENT FURNISHED TRAFFIC SIGNAL MONOTUBE MATERIALS	LS	1. 000	1. 000
1060	SPV. 0105	SPECIAL 05. TEMPORARY VEHICLE DETECTION (STH 54 & CTH QQ/GRAND SEASONS DR)	LS	1. 000	1. 000
1070	SPV. 0165	SPECIAL 01. CONCRETE SIDEWALK HES 4-INCH	SF	336.000	336. 000

REMOVING PAVEMENT

		WIDTH	204.0100	
STATION - STATION	LOCATION	FEET	SY	REMARKS
STAGE 1				
276+07 - 276+22	STH 54 (EB) RT	19	32	
279+04 - 8+90QQ	CTH QQ (LT)	VARIES	301	
10+70QQ - 11+00QQ	CTH QQ (LT)	VARIES	9	SIDEWALK
10+80QQ - 11+39QQ	CTH QQ (LT)	VARIES	282	
	STAGE	1 TOTAL	624	
STAGE 2				
9+20QQ - 9+88QQ	CTH QQ (RT)	VARIES	107	
	STAGE	2 TOTAL	107	
STAGE 3				
9+20QQ - 9+88QQ	CTH QQ (RT)	VARIES	207	
279+42 - 279+94	STH 54 (EB)	VARIES	74	
280+96 - 281+52	STH 54 (WB)	VARIES	90	

STAGE 4

276+07 - 276+22 STH 54 (EB) LT 12

STAGE 3 TOTAL 371

STAGE 4 TOTAL 61

GRAND TOTAL 1163

REMOVING ASPHALTIC SURFACE

		204.0110	
STATION - STATION	LOCATION	SY	REMARKS
STAGE 1A			
9+5 <mark>4QQ - 9+79</mark> QQ	CTH QQ (RT)	20	EXISTING ISLAND
	STAGE 1A TOTA	L 20	
STAGE 1			
10+70QQ - 11+00QQ	CTH QQ (LT)	17	EXISTING ISLAND
	STAGE 1 TOTAL	_ 17	
STAGE 3			
9+54QQ - 9+77QQ	CTH QQ (RT)	20	TEMP ASPHALT
	STAGE 3 TOTAL	_ 20	
STAGE 4			
9+54QQ - 9+77QQ	CTH QQ (RT)	13	TEMP ASPHALT
	STAGE 4 TOTAL	_ 13	=
			_
	GRAND TOTAL	- 70	-

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
STAGE 1A			
9+54QQ - 9+74QQ	CTH QQ (RT)	76	
STA	GE 1A TOTAL	76	=
STAGE 1			
10+79QQ	CTH QQ (LT)	14	ISLAND
STA	GE 1A TOTAL	14	=
STAGE 3			
279+87 - 279+96	STH 54 (EB)	20	MEDIAN
ST	AGE 3 TOTAL	20	=
G	RAND TOTAL	110	=

REMOVING INLETS

STATION	LOCATION	204.0220 FACH
STAGE 1		
279+35	STH 54 (EB) RT	1
	TOTAL	1

REMOVING STORM SEWER

		204.0245 12-INCH
STATION	LOCATION	LF
STAGE 1 279+33	STH 54 (EB) RT	10
	TOTAL	10

BASE AGGREGATE DENSE

		305.0120 1 1/4-INCH
STATION - STATION	LOCATION	TON
STAGE 1A		
9+5 4QQ - 9+79 QQ	CTH QQ (RT)	1
S	TAGE 1A TOTAL	1
STAGE 1		
276+07 - 276+22	STH 54 (EB) RT	2
279+04 - 8+90QQ	CTH QQ (LT)	77
10+80QQ - 11+39QQ	CTH QQ (LT)	16
	STAGE 1 TOTAL	95
STAGE 2		
9+27QQ - 9+88QQ	CTH QQ (RT)	6
	STAGE 2 TOTAL	6
STAGE 3		
9+20QQ - 9+88QQ	CTH QQ (RT)	12
279+42 - 279+94	STH 54 (EB)	5
280+96 - 281+52	STH 54 (WB)	5
	STAGE 3 TOTAL	22
STAGE 4		
9+51QQ - 9+92QQ	CTH QQ (RT)	9
276+07 - 276+22	STH 54 (EB) LT	1
	STAGE 4 TOTAL	10
	,	
	GRAND TOTAL	134

GRADING, SHAPING AND FINISHING INTERSECTION

	*		*	*	*	*	205.9015.S	
	COMMON	*	EXPANDED	SALVAGED	SEEDING	TYPE B	STH 54 & CTH QQ/	
	EXCAVATION	FILL	FILL	TOPSOIL	NO. 40	FERTILIZER	GRAND SEASONS DR	
LOCATION	CY	CY	CY	SY	LB	CWT	LS	REMARKS
STAGE 1								_
STH 54/CTH QQ	25	175	228	450	8	0.5	1	MEDIAN AND INTERSECTION
TOTALS	25	175	228	450	8	1	1	•

* FOR INFORMATION ONLY. EXPANSION FACTOR = 1.3

PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 1 SHEET: **E**

FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt

PLOT DATE : 3/10/2014 8:29 AM

PLOT BY ·

PLOT NAME : 030201_mq.ppt

PLOT SCALE : 1:1

Ε

SHEET:

CONCRETE PAVEMENT HES 9-INCH

415.1090 STATION - STATION LOCATION SY STAGE 1 276+07 - 276+22 32 STH 54 (EB) RT 337 279+04 - 8+90QQ CTH QQ (LT) 10+80QQ - 11+39QQ CTH QQ (LT) 282 STAGE 1 TOTAL 651 STAGE 2 9+20QQ - 9+88QQ CTH QQ (RT) 107 STAGE 2 TOTAL 107 STAGE 3 9+20QQ - 9+88QQ CTH QQ (RT) 207 279+42 - 279+94 STH 54 (EB) 74 280+96 - 281+52 STH 54 (WB) 90 STAGE 3 TOTAL 371 STAGE 4 9+51QQ - 9+92QQ CTH QQ (RT) 276+07 - 276+22 STH 54 (EB) LT 20 STAGE 4 TOTAL 40 GRAND TOTAL 1169

DRILLED TIE BARS & DOWEL BARS

STATION - STATION	LOCATION	416.0610 TIE BARS EACH	416.0620 DOWEL BARS EACH
	LOCATION	EACH	EAGH
<u>STAGE 1</u> 276+07 - 276+22	CTU 54 (ED) DT	10	28
	STH 54 (EB) RT	. •	
279+04 - 8+90QQ	CTH QQ (LT)	73	24
10+80QQ - 11+39QC	CTH QQ (LT)	69	65
	STAGE 1 TOTALS	152	117
STAGE 2			
9+20QQ - 9+88QQ	CTH QQ (RT)	52	20
	STAGE 2 TOTALS	52	20
STAGE 3			
9+20QQ - 9+88QQ	CTH QQ (RT)	39	30
279+42 - 279+94	STH 54 (EB)	50	18
280+96 - 281+52	STH 54 (WB)	45	22
	STAGE 3 TOTALS	134	70
STAGE 4			
9+51QQ - 9+92QQ	CTH QQ (RT)	41	2
276+07 - 276+22	STH 54 (EB) LT	10	16
	STAGE 4 TOTALS		18
	5	J.	.3
	GRAND TOTALS	389	225

ASPHALTIC SURFACE

465.0105 STATION - STATION LOCATION TON REMARKS STAGE 1 279+64 - 279+98 STH 54 (EB) RT 2 **ISLAND** 10+79QQ - 10+93QQ CTH QQ (LT) **ISLAND** STAGE 1 TOTAL 3 STAGE 4 9+51QQ - 9+92QQ CTH CC (RT) 3 ISLAND STAGE 4 TOTAL 3

GRAND TOTAL 6

MOBILIZATION EROSION CONTROL

628.1910 628.1905 EMERGENCY LOCATION EACH EACH PROJECT LIMITS 2 1 TOTALS 2

STORM SEWER & CROSS DRAINS

608.0312 611.0624 520.8000 SSPRC INLET 611.3230 CONCRETE CLASS III COVERS INLETS COLLARS 12-INCH TYPE H 2x3-FT FOR PIPE **STATION** LOCATION EACH EACH EACH STAGE 1 279+33 STH 54 (EB) RT 14 1 TOTALS 14

ASPHALTIC SURFACE TEMPORARY

465.0125 STATION - STATION LOCATION TON STAGE 1A 9+54QQ - 9+79QQ CTH QQ (RT) TOTAL 8

ASPHALTIC FLUMES

465.0315 STATION LOCATION SY STAGE 1 9+20QQ CTH QQ (LT) 12 TOTAL 12

CONCRETE CURB & GUTTER AND SIDEWALK

		SPV.0090.01 CONCRETE CURB & GUTTER			602.0505 CURB RAMP DETECTABLE
		HES 18-INCH	HES 30-INCH	SIDEWALK	WARNING
		TYPE A	TYPE A	HES 4-INCH	FIELD YELLOW
STATION - STATION	LOCATION	LF	LF	SF	SF
STAGE 1					
279+04 - 8+90QQ	CTH QQ (LT)		125		
279+64 - 279+98	STH 54 (EB) RT	92		56	16
10+70QQ - 11+00QQ	CTH QQ (LT)	14		226	24
	STAGE 1 TOTALS	106	125	282	40
STAGE 3					
279+87 - 279+96	STH 54 (EB) MEDIAN	20		54	16
	STAGE 3 TOTALS	20	0	54	16
STAGE 4					
9+62QQ - 9+90QQ	CTH QQ (RT)	80			
	STAGE 4 TOTALS	80	0	0	0
	GRAND TOTALS	206	125	336	56

HWY: STH 54 PROJECT NO: 6991-01-70 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 2 FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt

PLOT DATE : 3/10/2014 8:29 AM

PLOT NAME : 030201 mq.ppt

PLOT SCALE: 1:1

		628.7015 TYPE C	
STATION	LOCATION	EACH	
STAGE 1			
279+32	STH 54 (EB) RT	1	

279+35 STH 54 (WB) LT 1 279+71 STH 54 (WB) LT

INLET PROTECTION

TOTAL

3

Е

RIPRAP & GEOTEXTILE FABRIC

			645.0130 TYPE R
STATION - STATION	LOCATION	CY	SY
278+95 - 279+70	STH 54 (EB) DITCH	35	120
	TOTALS	35	120

628.1504 628.1520 SILT FENCE SILT FENCE MAINTENANCE STATION - STATION LOCATION LF LF 278+90 - 279+62 STH 54 (EB) RT 95 95 UNDISTRIBUTED PROJECT LIMITS 15 TOTALS 110 110

SILT FENCE

SIGN LISTING

					Oic	IN LIGHTING	<u> </u>				
										638.3000	
				POSTS	WOOD	SIGNS REI	FLECTIVE H	637.2230	638.2602	REMOVING	
				4" >	X 6"		637.2215	SIGNS	REMOVING	SMALL	
				634.0612	634.0616	637.2210	TYPE II	TYPE II	SIGNS	SIGN	
SIGN	SIGN			12-FT	16-FT	TYPE II	FOLDING	REFLECT. F	TYPE II	SUPPORTS	
NO.	CODE	MESSAGE	SIZE	EACH	EACH	SF	SF	SF	EACH	EACH	REMARKS
1-01	R3-7R	RIGHT LANE MUST TURN RIGHT	36" x 36"			9.00					STA 274+25 EB; ATTACH TO EXISTING SIGN
1-02	R3-7R	RIGHT LANE MUST TURN RIGHT	36" x 36"		1	9.00					STA 277+50 EB
1-03	W12-1D	DOUBLE DIAGONAL ARROW	30" x 30"	1				6.25			ISLAND
1-04	R1-1F	STOP	36" x 36"				7.46				ISLAND; MOUNT ON SIGNAL POLE
1-05	R1-2	YIELD	48" x 42"		1	7.00					
1-06	R10-52	LEFT TURN YIELD ON FLASHING YELLOW ARROW	30" x 36"			7.50					ISLAND; MOUNT ON SIGNAL POLE
1-07	R10-6	STOP HERE ON RED (W/ARROW)	24" x 36"		1	6.00			1	1	ISLAND
1-08	R3-8	LEFT LANE TURN/THRU & RIGHT TURN ONLY	36" x 30"		1	7.50					STA 8+50QQ
1-09	W12-1D	DOUBLE DIAGONAL ARROW	24" x 24"	1				4.00	1	1	ISLAND
1-10	R1-2	YIELD							1	1	
1-11	R6-3	DIVIDED HIGHWAY	30" x 24"			5.00			1		ISLAND; MOUNT ON SIGNAL POLE
1-12	R1-1F	STOP	36" x 36"				7.46		1		ISLAND; MOUNT ON SIGNAL POLE
1-13	R6-2L	ONE WAY	24" x 30"			5.00			1		ISLAND; MOUNT ON SIGNAL POLE
1-14	R1-1F	STOP	36" x 36"				7.46		1		MEDIAN; MOUNT ON SIGNAL POLE
1-15	R4-7	KEEP RIGHT SYMBOL	24" x 30"			5.00			1		MEDIAN; MOUNT ON SIGNAL POLE
1-16	R10-52	LEFT TURN YIELD ON FLASHING YELLOW ARROW	30" x 36"			7.50					MEDIAN; MOUNT ON SIGNAL POLE
1-17	R1-1F	STOP	36" x 36"				7.46		1		ISLAND; MOUNT ON SIGNAL POLE
1-18	R6-2L	ONE WAY	24" x 30"			5.00			1		ISLAND; MOUNT ON SIGNAL POLE
1-19	R3-8	LEFT LANE TURN/THRU & RIGHT TURN ONLY	36" x 30"		1	7.50					STA 12+50QQ
1-20	R10-52	LEFT TURN YIELD ON FLASHING YELLOW ARROW	30" x 36"			7.50					MEDIAN; MOUNT ON SIGNAL POLE
1-21	R4-7	KEEP RIGHT SYMBOL	24" x 30"			5.00			1		MEDIAN; MOUNT ON SIGNAL POLE
1-22	R1-1F	STOP	36" x 36"				7.46		1		MEDIAN; MOUNT ON SIGNAL POLE
1-23	R1-1F	STOP	36" x 36"				7.46		1		MOUNT ON SIGNAL POLE
1-24	R1-2	YIELD	48" x 42"		1	7.00					
			TOTALS	2	6	100.50	44.76	10.25	13	3	=

HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 3 SHEET: PROJECT NO: 6991-01-70

EROSION MAT URBAN CLASS I

279+79 - 280+04 STH 54 (EB) MEDIAN

LOCATION

STH 54 (EB) DITCH

PROJECT LIMITS

STATION - STATION

278+95 - 279+80

UNDISTRIBUTED

628.2008 TYPE B

SY

380

20

50

TOTAL 450

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
9+00QQ	CTH QQ (LT)	5
	TOTAL	5

TRAFFIC CONTROL DRUMS

			643.0300
LOCATION	NUMBER	DAYS	DAY
STAGE 1A			
STH 54 (EB)	30	2	60
STH 54 (WB)	32	2	64
CTH QQ	20	2	40
5	STAGE 1A	TOTAL	164
STAGE 1			
STH 54 (EB)	48	14	672
CTH QQ	26	14	364
GRAND SEASONS DR	26	14	364
	STAGE 1	TOTAL	1400
STAGE 2			
STH 54 (EB)	15	3	45
STH 54 (WB)	18	3	54
CTH QQ	14	3	42
	STAGE 2	TOTAL	141
STAGE 3			
STH 54 (EB)	28	7	196
STH 54 (WB)	17	7	119
CTH QQ	23	7	161
	STAGE 3	TOTAL	476
STAGE 4			
STH 54 (EB)	45	7	315
CTH QQ	29	7	203
	STAGE 4	TOTAL	518
	GRAND '	TOTAL	2699

TRAFFIC CONTROL BARRICADES

643.0410 643.0420

				TYPE II	TYPE III
STATION	LOCATION	NUMBER	DAYS	DAY	DAY
STAGE 1A					
277+00	STH 54 (EB)	2	2		1
277+75	STH 54 (EB)	2	2		1
278+00	STH 54 (WB)	1	2	1	
280+50	STH 54 (WB)	1	2	1	
283+50	STH 54 (WB)	2	2		1
283+75	STH 54 (WB)	2	2		1
8+50QQ	CTH QQ (RT)	2	2		1
		STAGE 1A T	OTALS	2	5
STAGE 1					
275+50	STH 54 (EB)	1	14		14
277+00	STH 54 (EB)	2	14		28
278+00	STH 54 (WB)	1	14	14	
280+50	STH 54 (WB)	1	14	14	
7+75QQ	CTH QQ	2	14		28
8+25QQ	CTH QQ	1	14		14
12+50QQ	GRAND SEASONS D	R 1	14		14
		STAGE 1 T	OTALS	28	98
STAGE 2					
278+00	STH 54 (EB)	1	3	3	
278+50	STH 54 (EB)	1	3		3
283+50	STH 54 (WB)	1	3		3
7+75QQ	CTH QQ	2	3		6
8+25QQ	CTH QQ	1	3		3
		STAGE 2 T	OTALS	3	15
STAGE 3					
277+75	STH 54 (EB)	1	7		7
283+00	STH 54 (WB)	1	7		7
7+75QQ	CTH QQ	2	7		14
8+25QQ	CTH QQ	1	7		7
		STAGE 3 T	OTALS	0	35
STAGE 4					
275+50	STH 54 (EB)	1	7		7
7+75QQ	CTH QQ	2	7		14
8+25QQ	CTH QQ	1	7		7
STAGE 4 TOTALS					28
		GRAND T	OTALS	33	181

TRAFFIC CONTROL WARNING LIGHTS

STAGE 1A 277+00 STH 54 (EB) 2 2 4 277+75 STH 54 (EB) 2 2 4 278+00 STH 54 (WB) 2 2 4 280+50 STH 54 (WB) 2 2 4 283+50 STH 54 (WB) 2 2 4 283+75 STH 54 (WB) 2 2 4 8+50QQ CTH QQ (RT) 2 2 4 DRUMS STH 54 (EB) 12 2 4 DRUMS STH 54 (EB) 12 2 4 275+50 STH 54 (EB) 2 14 28 277+00 STH 54 (WB) 2 14 28 278+00 STH 54 (WB) 2 14 28 7+75QQ CTH QQ 4 14 56 8+25QQ CTH QQ 2 14 28 278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2	STATION	LOCATION	NUMBER	DAYS	643.0705 TYPE A DAY	643.0715 TYPE C DAY	
277+75 STH 54 (EB) 2 2 4 4 278+00 STH 54 (WB) 2 2 4 280+50 STH 54 (WB) 2 2 4 4 280+50 STH 54 (WB) 2 2 4 4 283+50 STH 54 (WB) 2 2 4 283+75 STH 54 (WB) 2 2 4 8+50QQ CTH QQ (RT) 2 2 4 DRUMS STH 54 (EB) 12 2 24 STAGE 1 275+50 STH 54 (EB) 4 14 28 277+00 STH 54 (WB) 2 14 28 56 278+00 STH 54 (WB) 2 14 28 56 278+00 STH 54 (WB) 2 14 28 7+75QQ CTH QQ 4 14 28 12+50QQ AND SEASONS 2 14 28 12+50QQ AND SEASONS 2 14 28 STAGE 1 TOTALS STAGE 2 278+00 STH 54 (EB) 2 3 6 28 283+50 STH 54 (EB) 2 3 6 STAGE 2 278+00 STH 54 (EB) 2 3 6 STAGE 2 278+00 STH 54 (WB) 2 3 6 STAGE 2 278+00 STH 54 (EB) 2 3 6 STAGE 2 278+00 STH 54 (EB) 2 3 6 STAGE 2 278+50 STH 54 (EB) 2 3 6 STAGE 2 TOTALS STAGE 3 277+75 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 14 DRUMS STH 54 (EB) 2 7 14 DRUMS STH 54 (EB) 2 7 14 DRUMS STH 54 (EB) 14 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 7 14 98 97-1000000000000000000000000000000000000							
278+00 STH 54 (WB) 2 2 4 280+50 STH 54 (WB) 2 2 4 283+50 STH 54 (WB) 2 2 4 283+75 STH 54 (WB) 2 2 8+50QQ CTH QQ (RT) 2 DRUMS STH 54 (EB) 12 2 24 STAGE 1A TOTALS 8 44 STAGE 1 275+50 STH 54 (EB) 2 14 28 277+00 STH 54 (EB) 4 14 28 277+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 28 278+00 STH 54 (WB) 2 14 28 278+00 STH 54 (WB) 2 14 28 278+50Q CTH QQ 4 14 28 12+50QQ 'AND SEASONS 2 14 28 12+50QQ 'AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 7+75QQ CTH QQ 4 3 6 STAGE 2 278+50 STH 54 (WB) 2 3 6 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 283+00 STH 54 (WB) 2 7 14 283+00 STH 54 (WB) 2 7 14 285+00 STH 54 (277+00	• •				4	
280+50 STH 54 (WB) 2 2 4 283+50 STH 54 (WB) 2 2 8+50QQ CTH QQ (RT) 2 2 9 24 8+50QQ CTH QQ (RT) 2 2 9 24 STAGE 1 275+50 STH 54 (EB) 12 2 277+00 STH 54 (EB) 4 14 28 277+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 28 281-50QQ CTH QQ 4 14 28 12+50QQ CTH QQ 2 14 28 STAGE 1 TOTALS STAGE 2 278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 283+50 STH 54 (WB) 2 3 6 278+5Q CTH QQ 4 3 28+25QQ CTH QQ 2 3 6 STAGE 2 TOTALS STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 7+75QQ CTH QQ 2 7 14 7+75	277+75	, ,				4	
283+50 STH 54 (WB) 2 2 2 4 283+75 STH 54 (WB) 2 2 2 4 8+50QQ CTH QQ (RT) 2 2 2 4 DRUMS STH 54 (EB) 12 2 24 STAGE 1 275+50 STH 54 (EB) 2 14 28 277+00 STH 54 (EB) 4 14 56 278+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 3 3 28 STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 28 STAGE 1 TOTALS 56 196 STAGE 2 3 6 6 28 STAGE 2 TOTALS 6 30 STAGE 3 STAGE 2 TOTALS 6 30 STAGE 3 STAGE 2 TOTALS 6 30 STAGE 4 275+50 STH 54 (EB) 2 7 14 28 3+00 STH 54 (WB) 2 7 14 28 3+00 STH 54 (WB) 2 7 14 3 3 12 3 3 6 3 3 3 3	278+00	` ,			4		
283+75 STH 54 (WB) 2 2 4 8+50QQ CTH QQ (RT) 2 2 4 DRUMS STH 54 (EB) 12 2 24 STAGE 1 275+50 STH 54 (EB) 2 14 28 277+00 STH 54 (EB) 4 14 56 278+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 56 8+25QQ CTH QQ 2 14 28 12+50QQ AND SEASONS 2 14 28 STAGE 2 TOTALS 56 196 STAGE 1 TOTALS 56 196 STAGE 2 TOTALS 6 3 6 278+50 STH 54 (EB) 2 3 6 38+25QQ CTH QQ	280+50	STH 54 (WB)			4		
8+50QQ CTH QQ (RT) 2 2 4 STAGE 1A TOTALS STAGE 1 STAGE 1 STAGE 1 STAGE 1 STAGE 1 2	283+50	` ,				4	
DRUMS STH 54 (ÈB) 12 2 ———————————————————————————————————	283+75	` ,				4	
STAGE 1A TOTALS 8 44 STAGE 1 275+50 STH 54 (EB) 2 14 28 277+00 STH 54 (EB) 4 14 56 278+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 28 7+75QQ CTH QQ 4 14 56 8+25QQ CTH QQ 2 14 28 12+50QQ 'AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 278+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 6 8+25QQ CTH QQ 2 7 14 7+75QQ CTH QQ 2 7 14							
STAGE 1 275+50 STH 54 (EB) 2 14 28 277+00 STH 54 (EB) 4 14 56 278+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 28 7+75QQ CTH QQ 4 14 56 8+25QQ CTH QQ 2 14 28 12+50QQ 'AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 2 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 12 8+25QQ CTH QQ 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28	DRUMS	STH 54 (EB)				24	
275+50 STH 54 (EB) 2 14 28 277+00 STH 54 (EB) 4 14 56 278+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 28 7+75QQ CTH QQ 4 14 56 8+25QQ CTH QQ 2 14 28 12+50QQ 'AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 1 TOTALS 56 196 STAGE 1 TOTALS 56 196 STAGE 2 TOTALS 6 278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54			STAGE 1	A TOTALS	8	44	
277+00 STH 54 (EB) 4 14 56 278+00 STH 54 (WB) 2 14 28 280+50 STH 54 (WB) 2 14 28 7+75QQ CTH QQ 4 14 56 8+25QQ CTH QQ 2 14 28 12+50QQ AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 2 2 3 6 278+50 STH 54 (EB) 2 3 6 278+50 STH 54 (WB) 2 3 6 283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 6 STAGE 2 TOTALS 6 30 STAGE 3 STH 54 (WB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 7+75QQ CTH QQ 4 <td< td=""><td>STAGE 1</td><td></td><td></td><td></td><td></td><td></td></td<>	STAGE 1						
278+00 STH 54 (WB) 2 14 28 — 280+50 STH 54 (WB) 2 14 28 — 7+75QQ CTH QQ 4 14 — 56 8+25QQ CTH QQ 2 14 — 28 12+50QQ AND SEASONS 2 14 — 28 STAGE 1 TOTALS 56 196 STAGE 2 278+50 STH 54 (EB) 2 3 6 — 278+50 STH 54 (EB) 2 3 — 6 283+50 STH 54 (WB) 2 3 — 6 7+75QQ CTH QQ 4 3 — 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 — 14 283+00 STH 54 (WB) 2 7 — 14 7+75QQ CTH QQ 4 7 — 28 8+25QQ CTH QQ 2 7 —	275+50		2	14		28	
280+50 STH 54 (WB) 2 14 28 7+75QQ CTH QQ 4 14 56 8+25QQ CTH QQ 2 14 28 12+50QQ 'AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (WB) 2 3 6 283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 12 8+25QQ CTH QQ 2 3 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 STAGE 4 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 STAGE 4 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 STAGE 4 TOTALS 0 70 STAGE 4 TOTALS 0 70 STAGE 4 TOTALS 0 154	277+00		4	14		56	
7+75QQ CTH QQ 4 14 56 8+25QQ CTH QQ 2 14 28 12+50QQ AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 6 STAGE 2 TOTALS 6 30 STAGE 3 TOTALS 0 70 STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+	278+00	STH 54 (WB)		14	28		
8+25QQ CTH QQ 2 14 28 12+50QQ 'AND SEASONS 2 14 28 STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4	280+50	, ,	2	14	28		
12+50QQ 'AND SEASONS 2 14 — 28 STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 — 278+50 STH 54 (EB) 2 3 — 6 283+50 STH 54 (WB) 2 3 — 6 7+75QQ CTH QQ 4 3 — 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 — 14 283+00 STH 54 (WB) 2 7 — 14 7+75QQ CTH QQ 4 7 — 28 8+25QQ CTH QQ 2 7 — 14 STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 — 14 7+75QQ CTH QQ 4 7 — 28 8+25QQ CTH QQ 4 7 — 28 8+25QQ CTH QQ 2 7 — 14 7+75QQ — 14 7	7+75QQ	CTH QQ		14		56	
STAGE 1 TOTALS 56 196 STAGE 2 278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 6 7+75QQ CTH QQ 4 3 12 8+25QQ CTH QQ 2 3 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154				14		28	
STAGE 2 278+00 STH 54 (EB) 2 3 6 — 278+50 STH 54 (EB) 2 3 — 6 283+50 STH 54 (WB) 2 3 — 6 7+75QQ CTH QQ 4 3 — 12 8+25QQ CTH QQ 2 3 — 6 STAGE 3 277+75 STH 54 (EB) 2 7 — 14 283+00 STH 54 (WB) 2 7 — 14 7+75QQ CTH QQ 4 7 — 28 8+25QQ CTH QQ 2 7 — 14 7+75QQ CTH QQ 4 7 — 28 8+25QQ CTH QQ 4 7 — 28 8+25QQ CTH QQ 2 7 — 14 7+75QQ CTH QQ 2 7 — 14 7+75QQ CTH QQ 2 7 — 14 7+75QQ CTH QQ 2	12+50QQ	AND SEASONS				28	
278+00 STH 54 (EB) 2 3 6 278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 6 8+25QQ CTH QQ 2 3 6 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 <td c<="" td=""><td></td><td></td><td>STAGE</td><td>1 TOTALS</td><td>56</td><td>196</td></td>	<td></td> <td></td> <td>STAGE</td> <td>1 TOTALS</td> <td>56</td> <td>196</td>			STAGE	1 TOTALS	56	196
278+50 STH 54 (EB) 2 3 6 283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 12 8+25QQ CTH QQ 2 3 6 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154							
283+50 STH 54 (WB) 2 3 6 7+75QQ CTH QQ 4 3 12 8+25QQ CTH QQ 2 3 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 14 STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154		, ,		3	6		
7+75QQ CTH QQ 4 3 12 8+25QQ CTH QQ 2 3 6 STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154		, ,					
8+25QQ CTH QQ 2 3 6 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154		` ,					
STAGE 2 TOTALS 6 30 STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154							
STAGE 3 277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154	8+25QQ	CTH QQ		_			
277+75 STH 54 (EB) 2 7 14 283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154			STAGE	2 TOTALS	6	30	
283+00 STH 54 (WB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154							
7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 STAGE 3 TOTALS 0 70 STAGE 3 TOTALS 0 70 STAGE 4 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154		• • •					
8+25QQ CTH QQ 2 7 14 STAGE 4 2 7 14 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154		` ,					
STAGE 3 TOTALS 0 70 STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154							
STAGE 4 275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154	8+25QQ	CTH QQ					
275+50 STH 54 (EB) 2 7 14 7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154			STAGE	3 TOTALS	0	70	
7+75QQ CTH QQ 4 7 28 8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154							
8+25QQ CTH QQ 2 7 14 DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154		` ,					
DRUMS STH 54 (EB) 14 7 98 STAGE 4 TOTALS 0 154							
STAGE 4 TOTALS 0 154							
	DRUMS	STH 54 (EB)					
GRAND TOTALS 70 494			STAGE	4 TOTALS	0	154	
GRAND TOTALS 70 494							
			GRAN	DIOTALS	70	494	

PLOT SCALE: 1:1

PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 4 SHEET: **E**

FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt PLOT NAME : 030201 mq.ppt

TRAFFIC CONTROL SIGNS

LOCATION CODE DESCRIPTION NUMBER DAYS DAY	LOCATION	SIGN	DECODIDATION	SIGN	DAVC	643.0900
STH 54 (EB) W20-1 ROAD WORK 1 MILE 1 2 2 2 W20-1 ROAD WORK 1/2 MILE 1 2 2 2 W20-1 ROAD WORK 1500 FT 1 2 2 2 W20-7A FLAGGER 1 2 2 2 END ROAD WORK 1500 FT 1 2 2 2 END ROAD WORK 1 2 2 2 END ROAD WORK 1 2 2 2 2 2 2 2 2 2		CODE	DESCRIPTION	NUMBER	DATS	DAT
W20-1		W20-1	ROAD WORK 1 MILE	1	2	2
W20-1	3 111 34 (LB)					
W20-7A				-		
R11-2				-		
STH 54 (WB) W20-1				· ·		
STH 54 (WB) W20-1						
W20-1		G20-2A	END ROAD WORK	1		2
W20-1	STH 54 (WB)	W20-1	ROAD WORK 1 MII F	1	2	2
W20-1	(1.2)					
W20-7A						
R11-2				-		
W20-1				•		
CTH QQ						
R9-9 SIDEWALK CLOSED 2 2 4				-		
CTH QQ						
W013-1		113-3	SIDEWALK GLOSED			
W013-1	CTH OO	W20-1	ROAD WORK AHEAD	1	2	2
W20-1	5 44					
W20-7A						
W20-1 ROAD WORK 250 FT 1 2 2 2 2 2 2 2 2 2				-		
G20-2A				•		
R11-2 LANE CLOSED 1 2 2				-		
GRAND SEASONS DR W20-1 ROAD WORK AHEAD 1 2 2 W013-1 25 M.P.H. 3 2 6 W20-1 ROAD WORK 500 FT 1 2 2 W20-7A FLAGGER 1 2 2 W20-1 ROAD WORK 250 FT 1 2 2 G20-2A END ROAD WORK 1 2 2 USH 10 (EB) OFF RAMP W20-1 ROAD WORK AHEAD 1 2 2 USH 10 (EB) ON RAMP G20-2A END ROAD WORK 1 2 2 STAGE 1A TOTAL 715 STAGE 1 STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28				-		
W013-1		1(11-2	LANE CLOSED	· · · · · · · · · · · · · · · · · · ·		2
W013-1	GRAND SEASONS DR	W20-1	ROAD WORK AHEAD	1	2	2
W20-1	OT WILD GET GOING BIT					
W20-7A						
W20-1 ROAD WORK 250 FT 1 2 2 G20-2A END ROAD WORK 1 2 2 USH 10 (EB) OFF RAMP W20-1 ROAD WORK AHEAD 1 2 2 USH 10 (EB) ON RAMP G20-2A END ROAD WORK 1 2 2 STAGE 1A TOTAL 715 STAGE 1 TOTAL 715 STAGE 1 TOTAL TOTAL TOTAL TOTAL TOTAL STAGE 1 W12-52 MAX 12' WIDTH 1 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28				•		
G20-2A END ROAD WORK 1 2 2						
USH 10 (EB) OFF RAMP W20-1 ROAD WORK AHEAD 1 2 2 USH 10 (EB) ON RAMP G20-2A END ROAD WORK 1 2 2 STAGE 1A TOTAL 715 STAGE 1 STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28				-		
USH 10 (EB) ON RAMP G20-2A END ROAD WORK 1 2 2 STAGE 1A TOTAL 715 STAGE 1 STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28		OZO Z/ (END NORD WORK	<u>'</u>		
USH 10 (EB) ON RAMP G20-2A END ROAD WORK 1 2 2 STAGE 1A TOTAL 715 STAGE 1 STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28	USH 10 (EB) OFF RAMP	W20-1	ROAD WORK AHEAD	1	2	2
STAGE 1A TOTAL 715 STAGE 1 TOTAL 715 STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28						
STAGE 1 STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28	USH 10 (EB) ON RAMP	G20-2A	END ROAD WORK	1	2	2
STAGE 1 STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28	<u> </u>					
STH 54 (EB) & CTH Q W12-52 MAX 12' WIDTH 1 14 14 W057-52 3 MILES AHEAD 1 14 14 14	STAGE 1			STAGE 1A	TOTAL	715
W057-52 3 MILES AHEAD 1 14 14 USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28		W12-52	MAX 12' WIDTH	1	14	14
USH 10 (EB & WB) M1-5A COUNTY QQ 2 14 28 W12-52 MAX 13' WIDTH 2 14 28	[] [] [[] [] [] [] [] [] [] [-		
W12-52 MAX 13' WIDTH 2 14 28	<u> </u>	V V U U I - U Z	3 MILLS ATTLAD	· · · · · · · · · · · · · · · · · · ·	- 17	דו
W12-52 MAX 13' WIDTH 2 14 28	USH 10 (FR & WR)	M1-5A	COUNTY OO	2	14	28
77007 02 1 WILL / (11L/10) 2 17 20						

LOCATION	SIGN CODE	DESCRIPTION	SIGN NUMBER	DAYS	643.0900 DAY
STAGE 1 (CONT)					
CTH Q & CTH QQ	M1-5A		1	14	14
	W12-52	MAX 12' WIDTH	1	14	14
	W057-52	2 MILES AHEAD	1	14	14
STH 54 (EB)	W20-1		•		14
	W12-52		-		14
	W20-5		-		14
	W20-5		1		14
	W04-2R		1		14
	R11-2	LANE CLOSED	3	14	42
	R5-2(MOD)	NO TRUCKS	1	14	14
	R3-2	NO LEFT TURN	1	14	14
	G20-2A	END ROAD WORK	1	14	14
STH 54 (WB)	W20-1		1		14
STH 54 (WB)	W20-1		1	14	14
	W20-1	ROAD WORK 1500 FT	1	14	14
	W20-1	ROAD WORK AHEAD	1	14	14
	M1-5A	COUNTY QQ	1	14	14
	W12-52	MAX 13' WIDTH	1	14	14
	R5-2(MOD)	NO TRUCKS	1	14	14
	R3-2		1	14	14
	R9-9		2		28
	G20-2A	END ROAD WORK	_ 1	14	14
CTH QQ	W20-1	ROAD WORK AHEAD	1 14 1 14 1 14 2 14 1 14 1 14 3 14 1 14	14	
	W013-1	25 M.P.H.	3	14	42
	W12-52	MAX 12' WIDTH	1	14	14
	W20-1	ROAD WORK 500 FT	1	14	14
	W20-1	ROAD WORK 250 FT	NUMBER DAYS 1 14 1 14 1 14 1 14 1 14 1 14 1 14 1	14	14
	G20-2A	END ROAD WORK	1	14	14
	R11-2	DESCRIPTION NUMBER DAYS A COUNTY QQ 1 144 52 MAX 12' WIDTH 1 14 -52 2 MILES AHEAD 1 14 -1 ROAD WORK 1 MILE 1 14 -5 RIGHT LANE CLOSED 1/2 MILE 1 14 -5 RIGHT LANE CLOSED 1500 FT 1 14 -2 RIGHT LANE CLOSED 1500 FT 1 14 -2 LANE CLOSED 3 1 14 -2 LANE CLOSED 3 1 14 -2 LANE CLOSED 3 1 14 -2 NO LEFT TURN 1 14 -1 ROAD WORK 1 MILE 1 1 14 -1 ROAD WORK 1/2 MILE 1 1 14 -1 ROAD WORK AHEAD 1 1 14 -2 NO LEFT TURN 1 1 14 -3 SIDEWALK CLOSED 2 14 -4 ROAD WORK AHEAD 1 14 -1 ROAD WORK AHEAD 1 1 14 -1 ROAD WORK AHEAD 1 1 14 -1 ROAD WORK SOO FT 1 1 14 -1 ROAD WORK SOO FT 1 1 14 -1 ROAD WORK 250 FT 1 1 14 -1 ROAD WORK 250 FT 1 1 14 -1 ROAD WORK 500 FT 1 1 14 -1 ROAD WOR	28		
GRAND SEASONS DR	W20-1	ROAD WORK AHEAD	1	14	14
	W013-1	25 M.P.H.	3	14	42
	W20-1	ROAD WORK 500 FT	1	14	14
	W20-1	ROAD WORK 250 FT	1	14	14
	R5-2(MOD)	NO TRUCKS	1	14	14
	R11-2		1		14
	G20-2A		1		14
HOLL 40 (ED) OFF D. 1.1.	14/00 1	DOAD WORK (11717)		4.4	
USH 10 (EB) OFF RAMP	W20-1	ROAD WORK AHEAD	1	14	14
USH 10 (EB) ON RAMP	G20-2A	END DOAD WORK			14

STAGE 1 TOTAL 756

CONT ON NEXT PAGE

HWY: STH 54 COUNTY: WAUPACA PROJECT NO: 6991-01-70 MISCELLANEOUS QUANTITIES - 5 SHEET: PLOT SCALE : 1:1

FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt PLOT DATE : 3/10/2014 8:29 AM PLOT NAME : 030201_mq.ppt

TRAFFIC CONTROL SIGNS

	SIGN		SIGN		643.0900
LOCATION	CODE	DESCRIPTION	NUMBER	DAYS	DAY
STAGE 2					
STH 54 (EB) & CTH Q	W12-52	MAX 12' WIDTH	1	3	3
	W057-52	3 MILES AHEAD	1	3	3
071.0000711.00	144.54	001111777			
CTH Q & CTH QQ	M1-5A	COUNTY QQ	1	3	3
	W12-52	MAX 12' WIDTH	1	3	3
	W057-52	2 MILES AHEAD	1	3	3
STH 54 (EB)	W20-1	ROAD WORK 1 MILE	1	3	3
3111 34 (LB)	W12-52	MAX 12' WIDTH	1	3	3
	W20-5	RIGHT LANE CLOSED 1/2 MILE	1	3	3
	W20-5	RIGHT LANE CLOSED 1/2 IMILE	1	3	3
	R3-20R	BEGIN RIGHT TURN LANE	1	3	3
	R3-55R(MOD)	RIGHT TURN LANE	1	3	3
	W04-2R	RIGHT LANE ENDS	1	3	3
	G20-2A	END ROAD WORK	1	3	3
	OZU-ZA	END ROAD WORK	<u>'</u>		<u> </u>
STH 54 (WB)	W20-1	ROAD WORK 1 MILE	1	3	3
0.1101 (112)	W20-1	ROAD WORK 1/2 MILE	1	3	3
	W20-1	ROAD WORK 1500 FT	1	3	3
	W20-1	ROAD WORK AHEAD	1	3	3
	R11-2	LANE CLOSED	1	3	3
	G20-2A	END ROAD WORK	1	3	3
			<u> </u>		
CTH QQ	W20-1	ROAD WORK AHEAD	1	3	3
	W013-1	25 M.P.H.	3	3	9
	W12-52	MAX 12' WIDTH	1	3	3
	W20-1	ROAD WORK 500 FT	1	3	3
	W20-1	ROAD WORK 250 FT	1	3	3
	G20-2A	END ROAD WORK	1	3	3
	R11-2	LANE CLOSED	2	3	6
•					
GRAND SEASONS DR	W20-1	ROAD WORK AHEAD	1	3	3
	G20-2A	END ROAD WORK	1	3	3
USH 10 (EB) OFF RAMP	W20-1	ROAD WORK AHEAD	1	3	3
LIGHT TO THE STATE OF THE STATE					
USH 10 (EB) ON RAMP	G20-2A	END ROAD WORK	1	3	3
			STACE	TOTAL	
STAGE 3			STAGE 2	IUIAL	99
CTH Q & CTH QQ	M1-5A	COUNTY QQ	1	7	7
	W12-52	MAX 12' WIDTH	1	7 7	7
	W057-52	2 MILES AHEAD	1	7	7
	VV 031-02	Z WILLO AI ILAD	1		ı

	SIGN		SIGN		643.0900
LOCATION	CODE	DESCRIPTION	NUMBER	DAYS	DAY
STAGE 3 (CONT)					
STH 54 (EB)	W20-1	ROAD WORK 1 MILE	1	7	7
	W20-5	RIGHT LANE CLOSED 1/2 MILE	1	7	7
	W20-5	RIGHT LANE CLOSED 1500 FT	1	7	7
	W20-1	ROAD WORK 1000 FT	1	7	7
	R11-2	LANE CLOSED	1	7	7
	G20-2A	END ROAD WORK	1	7	7
STH 54 (WB)	W20-1	ROAD WORK 1 MILE	1	7	7
31H 54 (WB)	W20-1	ROAD WORK 1 MILE ROAD WORK 1/2 MILE	-	7	
			1	=	7
	W20-1	ROAD WORK 1500 FT	1	7	7
	W20-1	ROAD WORK AHEAD	1	7	7
	R11-2	LANE CLOSED	1	7	7
	G20-2A	END ROAD WORK	1	7	7
CTH QQ	W20-1	ROAD WORK AHEAD	1	7	7
	W013-1	25 M.P.H.	3	7	, 21
	W12-52		3 1	7	
	W 12-52 W 20-1	MAX 12' WIDTH	-	-	7
		ROAD WORK 500 FT	1	7	7
	W20-1	ROAD WORK 250 FT	1	7	7
	G20-2A	END ROAD WORK	1	7	7
	R11-2	LANE CLOSED	2	7	14
GRAND SEASONS DR	W20-1	ROAD WORK AHEAD	1	7	7
	G20-2A	END ROAD WORK	1	7	7
USH 10 (EB) OFF RAMP	W20-1	ROAD WORK AHEAD	1	7	7
USH 10 (EB) ON RAMP	G20-2A	END ROAD WORK	1	7	7
			STAGE 3	TOTAL	203
STAGE 4 STH 54 (EB) & CTH Q	W12-52	MAX 12' WIDTH	1	7	7
011104 (EB) & 0111 Q	W057-52	3 MILES AHEAD	1	7	7
	W007 02	O WILLO / WILLAND		•	•
CTH Q & CTH QQ	M1-5A	COUNTY QQ	1	7	7
	W12-52	MAX 12' WIDTH	1	7	7
	W057-52	2 MILES AHEAD	1	7	7
STH 54 (EB)	W20-1	ROAD WORK 1 MILE	1	7	7
311134 (EB)					
	W12-52	MAX 12' WIDTH	1	7	7
	W20-5	LEFT LANE CLOSED 1/2 MILE	1	7	7
	W20-5	LEFT LANE CLOSED 1500 FT	1	7	7
	W04-2L	LEFT LANE ENDS	1	7	7
	W04-2L R11-2	LEFT LANE ENDS LANE CLOSED END ROAD WORK	1 1	7 7	7 7

CONT ON NEXT PAGE

HWY: STH 54 COUNTY: WAUPACA PROJECT NO: 6991-01-70 MISCELLANEOUS QUANTITIES - 6 SHEET:

FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt

PLOT DATE : 3/10/2014 8:29 AM

PLOT BY : PLOT NAME : 030201_mq.ppt

PLOT SCALE : 1:1

	SIGN		SIGN		643.0900
LOCATION	CODE	DESCRIPTION	NUMBER	DAYS	DAY
STAGE 4 (CONT)					
STH 54 (WB)	W20-1	ROAD WORK 1 MILE	1	7	7
	W20-1	ROAD WORK 1/2 MILE	1	7	7
	W20-1	ROAD WORK 1500 FT	1	7	7
	W20-1	ROAD WORK AHEAD	1	7	7
	G20-2A	END ROAD WORK	1	7	7
OTIL OO	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
CTH QQ	W20-1	ROAD WORK AHEAD	1	7	7
	W013-1	25 M.P.H.	3	7	21
	W12-52	MAX 12' WIDTH	1	7	7
	W20-1	ROAD WORK 500 FT	1	7	7
	W20-1	ROAD WORK 250 FT	1	7	7
	G20-2A	END ROAD WORK	1	7	7
	R11-2	LANE CLOSED	2	7	14
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		4	7	7
GRAND SEASONS DR	W20-1	ROAD WORK AHEAD	1	· ·	·
	G20-2A	END ROAD WORK	1	7	7
USH 10 (EB) OFF RAMP	W20-1	ROAD WORK AHEAD	1	7	7
USH 10 (EB) ON RAMP	G20-2A	END ROAD WORK	1	7	7

STAGE 4 TOTAL 217 GRAND TOTAL 1990

TRAFFIC CONTROL COVERING SIGNS

	COVERING SIGNS TYPE II						
·		NUMBER	NUMBER				
STAGE	EACH	OF CYCLES	OF SIGNS				
STAGE 1A	2	1	2				
STAGE 2	1	1	1				
STAGE 3	1	1	1				
;							
TOTAL	4						

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER

OTATION OTATION	LOCATION	POSTS	643.0600 BASES
STATION - STATION	LOCATION	EACH	EACH
STAGE 1			
280+50 - 282+05	STH 54 (EB)	13	13
7+50QQ - 9+80QQ	CTH QQ	16	16
10+90QQ - 14+75QQ	GRAND SEASONS DR	19	19
	STAGE 1 TOTALS	48	48
STAGE 2			
7+50QQ - 9+80QQ	CTH QQ	12	12
	STAGE 2 TOTALS	12	12
	GRAND TOTALS	60	60

TRAFFIC CONTROL ARROW BOARDS

LOCATION	NUMBER	DAYS	643.0800 DAY
LOCATION	NOMBLIX	DATO	ואט
STAGE 1			
STH 54 (EB)	2	14	28
	STAGE	1 TOTAL	28
STAGE 2			
STH 54 (EB)	2	14	28
	STAGE	2 TOTAL	28
STAGE 4			
STH 54 (EB)	2	14	28
	STAGE	4 TOTAL	28
	GRANI	D TOTAL	84

TRAFFIC CONTROL SIGNS PCMS

283+25	STH 54 (WB)	1	14 TOTAL	14 28	•
	STH 54 (EB)	1	14	14	
STATION	LOCATION	NUMBER	DAYS	643.1050 DAY	

NOTE: INSTALL 14 DAYS PRIOR TO CONSTRUCTION.

PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 7 SHEET:

FILE NAME : N:\pds\design_id\6991-01-00_STH_54\Quantities\030201_mq.ppt

PLOT DATE : 3/10/2014 8:29 AM

PLOT BY : PLOT NAME : 030201_mq.ppt

SUMMARY OF STATE FURNISHED MATERIALS - (FOR INFORMATION ONLY) TRAFFIC SIGNALS & INTERSECTION LIGHTING, STH 54 & CTH QQ/GRAND SEASONS DR

QUANTITY		
EACH	DESCRIPTION	
_		
1	TRAFFIC SIGNAL CONTROLLER AND CABINET	(WISDOT INSTALLED)
1	ELECTRIC SERVICE METER BREAKER PEDESTAL	(WISDOT INSTALLED)
5	PEDESTRAL BASES	
1	TRANSFORMER BASES, BREAKAWAY, 11 1/2-INCH BOLT CIR	CLE
1	POLES TYPE 3	
2	TYPE 9 MONOTUBE, 30-FOOT ARM	
3	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FT	
2	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15-FT	
1	TROMBONE ARM, 25-FT (ARM ON SITE, CONTRACTOR TO RE	MOVE, MOVE AND REINSTALL)
1	LUMINAIRE ARM, SINGLE MEMBER, 4-INCH CLAMP, 8-FT	
1	LUMINAIRE, UTILITY HPS, 250 WATT	
12	TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL	
5	TRAFFIC SIGNAL FACES, 4-12 INCH VERTICAL	
1	TRAFFIC SIGNAL FACES, 3-12 INCH HORIZONTAL	
1	PEDESTRIAN SIGNAL FACES, 16-INCH	
13	BACKPLATES, SIGNAL FACES, 3-SECTION 12-INCH	
5	BACKPLATES, SIGNAL FACES, 4-SECTION 12-INCH	
15	LED MODULES, 12-INCH, RED BALL	
12	LED MODULES, 12-INCH, YELLOW BALL	
12	LED MODULES, 12-INCH, GREEN BALL	
5	LED MODULES, 12-INCH, RED ARROW	
13	LED MODULES, 12-INCH, YELLOW ARROW	
8	LED MODULES, 12-INCH, GREEN ARROW	
1	LED MODULES, PEDESTRIAN COUNTDOWN TIMER 16-INCH	
1	PEDESTRIAN PUSH BUTTONS	
1	TRAFFIC SIGNAL MOUNTING HARDWARE	

PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 8 SHEET: **E**

FROM

CB

CB

PB1

PB2

PB2

PB4

PB4

PB4

PB5

PB5

PB6

PB6

PB6

PB8

PB8

PB8

PB9

PB9

PB10

PB10

PB10

PB10

PB11

PB13

PB13

PB13

PB14

PB16

PB16

TO

PB1

PB2

PB4

PB3

PB4

PB5

SB1

PB16

PB6

SB2

PB7

PB8

SB3

PB9

PB10

SB4

SB5

SB6

PB11

PB12

PB13

SB7

SB8

PB14

PB15

PB16

SB9

PB17

SB10

TOTALS

REMOVE AND SALVAGE LOCAL LIGHT POLE

BASE SPV.0105.03 NO STATION LOCATION EACH LLP1 279+40 30 FT (RT)

TOTAL

REMOVING CONCRETE BASES

BASE		204.0195							
NO	STATION	LOCATION	EACH	REMARKS					
ESB1	280+02	77' LT	1	TYPE 2					
ESB5	280+39	31' RT	1	TYPE 2					
ESB6	279+77	56' RT	1	TYPE 2					
ESB7	279+44	30' RT	1	TYPE 1					
ECB	279+65	114' LT	1	TYPE 9					
LLP1	279+40	30' RT	1	LOCAL LIGHT POLE					

TOTAL 6

PULL BOXES

PULL BOX NO	STATION	LOCATION	653.0140 PULL BOXES STEEL 24" X 42" EACH
PB1	279+69	120'LT	1
PB2	279+72	125'LT	1
PB3	279+46	234'LT	1
PB4	279+99	95'LT	1
PB5	280+70	99'LT	1
PB6	281+24	90'LT	1
PB7	283+87	94'LT	1
PB8	281+12	25'LT	1
PB9	281+35	24'LT	1
PB10	281+02	39'RT	1
PB11	280+43	25'RT	1
PB12	280+19	212'RT	1
PB13	279+48	45'RT	1
PB14	279+72	11'45	1
PB15	276+17	27'RT	1
PB16	279+76	30'LT	1
PB17	279+62	30'LT	1
		TOTAL	17

LOOP DETECTOR INSTALLATION

LOOP NUMBER	STATION	LOCATION	SIZE FT x FT	NUMBER OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LEAD-IN CABLE LF	655.0800 DETECTOR WIRE LF
11	279+63	19' LT	6x20	3	60	130	205
12	279+90	19' LT	6x20	3	64	130	230
21	283+90	61' LT	6x6			450	
22	283+90	73' LT	6x6			450	
23	283+90	85' LT	6x6			450	
41	279+56	232' LT	6x6			130	
42	280+08	111' LT	6x20	3	69	50	260
43	280+14	83' LT	6x20	3	64	50	230
44	279+83	103' LT	6x15	3	55	50	205
45	279+72	85' LT	6x15	3	57	50	220
51	281+24	42' LT	6x20	3	71	270	275
52	280+97	42' LT	6x20	3	72	270	280
61	276+17	6' LT	6x20	4	53	420	330
62	276+17	6' RT	6x20	4	41	420	235
81	279+96	210' RT	6x6			520	
82	280+05	212' RT	6x6			520	
83	280+24	51' RT	6x20	3	83	350	345
84	280+26	23' RT	6x20	3	65	350	235
OLA-1	280+53	50' RT	6x20	3	76	350	305
OLA-2	280+74	31' RT	6x20	3	74	350	290
				TOTALS	904	5760	3645

REMOVING PULL BOXES

				653.0905
	PULL			REMOVING
	BOX			PULL BOXES
	NO	STATION	LOCATION	EACH
	EPB1	279+68	110'LT	1
	EPB2	12F+93	20'LT	1
	EPB3	280+01	91'LT	1
•	EPB4	280+82	92'LT	1
	EPB5	281+14	90'LT	1
	EPB6	284+16	94'LT	1
•	EPB7	281+14	24'LT	1
	EPB8	281+14	34'RT	1
	EPB9	7QQ+93	20'RT	1
•	EPB10	280+19	36'RT	1
	EPB11	279+57	33'RT	1
	EPB12	276+15	29'RT	1
•	EPB13	279+85	19'LT	1

TOTAL

SHEET:

HWY: STH 54 COUNTY: WAUPACA PROJECT NO: 6991-01-70 **MISCELLANEOUS QUANTITIES - 9**

PLOT NAME : 030201 mq.ppt PLOT DATE : 3/10/2014 8:29 AM

FILE NAME: N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt

CONDUIT

652.0235

RIGID NONMETALLIC NONMETALLIC 652.0615

3-INCH

LF

12

10

20

20

28

17

70

114

20

16

23

24

28

10

17

10

15

48

24

5

18

10

14

21

603

3-INCH

LF

54

60

124

68

118

102

45

256

31

146

1004

SCHEDULE 40 SCHEDULE 40 SPECIAL

652.0225

RIGID

2-INCH

LF

117

272

200

225

814

PLOT SCALE: 1:1

		<u>C</u>	ONCRETE	BASES													
	BASE	LOGATION	BASES TYPE 1	654.0102 BASES TYPE 2	654.0217 CONTROL CABINET BASES TYPE 9 SPECIAL	654.0110 BASES TYPE 10	DEMARKO			CABLE T	RAFFIC SI	GNAL.		GRO	EQUIPN Unding C	MENT ONDUCTORS 655.0515 ELECTRICAL WIRE TRAFFIC	
3	CB1 SB1	LOCATION NW QUADRANT GRAND SEASONS DR RT ISLANI	<u>EACH</u> D	EACH 	1 	<u></u> 1	REMARKS	- FROM			7-14 AWG	655.0260 12-14 AWG		FROM	TO	SIGNALS 10 AWG GREEN LF	
	SB2 SB3 SB4 SB5 SB6	NE QUADRANT NE QUADRANT STH 54 EAST MEDIAN STH 54 EAST MEDIAN STH 54 EAST MEDIAN	 1 1	 	 	 	EXIST REMAIN EXIST REMAIN EXIST REMAIN	CB SB1 SB1 SB1	SB1 HEAD 2B HEAD 2C HEAD 4A		LF 41 41 19	LF 	80 	CB SB1 SB2 SB3	SB1 SB2 SB3 SB4	80 130 120 120	
	SB7 SB8 SB9 SB10	SE QUADRANT CTH QQ RT ISLAND STH 54 RT ISLAND STH 54 WEST MEDIAN	1 	 1 	 	 1 	EXIST REMAIN	SB1 SB1 CB SB2	HEAD 8C PED 2-1 SB2 HEAD 8B	 	19 14 170 45	 	 	SB4 SB5 SB6 SB7 SB8	SB5 SB6 SB7 SB8 SB9	70 40 150 80 250	
		TOTAL ELECT	RICAL WIR			2		SB2 CB SB3 CB SB4	SB3		14 19 23	 315 	 	SB9 SB10 CB CB SB1	SB10 CB PB1 PB2 PB4	160 160 20 20 30	
			CA TYF 2-12	ABLE EL PE UF 2 AWG L	655.0610 LECTRICAL WIRE LIGHTING 12 AWG			SB4 CB SB5 CB SB6	HEAD 5A SB5 OLA-2 SB6 OLA-3	355 345	23 23 23	 		SB2 SB3 SB4 SB5	PB5 PB6 PB8 PB9	30 35 20 30	
		FROM TO CB SE SB9 LUMIN	O 39 2	285 	LF 123	•		CB SB7 CB SB8	SB7 OLA-1 SB8 HEAD 4C		 23 19	 460 	 	SB7 SB8 SB9 SB9 SB10	PB10 PB11 PB13 PB14 PB16	35 15 45 20 30	
				285	123	=		SB8 SB* SB8 CB	HEAD 6C		41 41 19 	 285	 		TOTAL	1690	
		657.1345 657.	1530 HI	OLES SPV.0060.0 CONTRACTO PROVIDED GH-STRENO LT ASSEME	OR TF D DE GTH F	PV.0105.04 RANSPORT PARTMEN FUNISHED FFIC SIGN	T T	SB9 SB9 SB9 CB SB10	HEAD4B HEAD 5C	 	50 23 21 23 23	 160 	 			AFFIC SIGNALS ONS (LOCATION)	
		SIGNAL POLES MONO BASE TYPE 9 ARMS	OTUBE FO	OR MONOTO ARMS 30-F EACH 1	UBE M	IONOTUBE IATERIALS LS			TOTALS	1345	757	1220	80	STH 54 & CTH	LOCATION QQ/GRAND	661.0200 LS SEASONS DR 1	_
		SB8 1	2	2		1	_									TOTAL 1	=

PROJECT NO: 6991-01-70

FILE NAME: N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt

HWY: STH 54

PLOT DATE : 3/10/2014 8:29 AM

COUNTY: WAUPACA

MISCELLANEOUS QUANTITIES - 10

PLOT NAME : 030201 mq.ppt

SHEET:

PLOT SCALE: 1:1

SPV.0105.02 TRANSPORT

TRANSPORT AND INSTALL DEPARTMENT FURNISHED TRAFFIC SIGNAL AND LIGHTING

		TRANSFORMER		TRAFFIC	TRAFFIC					
		BASE		SIGNAL	SIGNAL		LUMINAIRE ARMS			
		BREAKAWAY		STANDARD	STANDARD	TROMBONE	SINGLE MEMBER	LUMINAIRE	PEDESTRIAN	
SIGNAL	PEDESTAL	11 1/2-INCH	POLES	ALUMINUM	ALUMINUM	ARMS	4-INCH CLAMP	UTILITY HPS	PUSH	
BASE	BASES	BOLT CIRCLE	TYPE 3	13-FOOT	15-FOOT	25-FOOT	8-FOOT	250-WATT	BUTTONS	
NUMBER	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	REMARKS
<u> </u>										
SB1									1	
SB4	1				1					
SB5	1			1						
SB6	1			1						
SB7	1			1						
SB9		1	1			1	1	1		25-FT TROMBONE ARM ONSITE, MOVE FROM ESB 6
SB10	1				1					
TOTALS	5	1	1	3	2	1	1	1	1	-

					BVCKE	PLATES								AND INSTALL DEPARTMENT
			SIGNAL FA	\CE		L FACE	LED MODULES 12-INCH PEDESTRIAN						FURNISHED	
SIGNAL		VERT		HORIZONTAL		4-SECTION	RED	YELLOW			YELLOW	GREEN	_	TRAFFIC SIGNAL
BASE	HEAD	3-12 INCH		3-12 INCH	12-INCH	12-INCH	BALL	BALL	BALL	ARROW		ARROW	16-INCH	AND LIGHTING
NUMBER	NUMBER	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LS
SB1	2-1												1	1
SB1	2B	1			1		1	1	1					
SB1	2C	1			1		1	1	1					
SB1	4A	1			1		1	1	1					
SB1	8C	1			1		1	1	1					
SB4	1B		1			1				1	2	1		
SB4	5A		1			1				1	2	1		
SB5	OLA-2	1			1		1				1	1		
SB6	OLA-3	1			1		1				1	1		
SB7	OLA-1	1			1		1				1	1		
SB8	4C	1			1		1	1	1					
SB8	6B	1			1		1	1	1					
SB8	6C	1			1		1	1	1					
SB8	8A	1			1		1	1	1					
SB9	4B			1	1		1	1	1					
SB9	5C		1			1				1	2	1		
SB9	6A	1			1		1	1	1					
SB10	1A		1			1				1	2	1		
SB10	5B		1			1				1	2	1		
	TOTALS	12	5	1	13	5	13	10	10	5	13	8	1	1

NOTE: THESE TABLES ARE FOR INFORMATION PURPOSES ONLY (WISDOT SUPPLIED, CONTRACTOR INSTALLED)

PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 11 SHEET:

PAVEMENT MARKING EPOXY

STATION - STATION	LOCATION	4-INCH	.0106 4-INCH (YELLOW) LF		ARR 647.0166 TYPE 2 EACH				647.0566 STOP LINE 18-INCH WHITE LF	647.0606 ISLAND YELLOW EACH	647.0766 CROSSWALK 6-INCH WHITE LF	REMARKS
												_
265+00 - 270+40	STH 54 (EB)	125										
274+95 - 277+10	STH 54 (EB)		370	215				40		2		
275+00 - 279+80	STH 54 (EB)	125										LANE LINE DASHED
277+50 - 280+00	STH 54 (EB)		405	510				177		4		
279+82	STH 54 (EB)								37			
280+85 - 282+75	STH 54 (EB)			45								3-FT, 9-FT GAP
280+90 - 285+15	STH 54 (EB)	112.5	737					151		1		LANE LINE DASHED
282+75 - 285+50	STH 54 (EB)			481								
275+40 - 279+90	STH 54 (WB)	125										LANE LINE DASHED
281+00 - 284+15	STH 54 (WB)	87.5										LANE LINE DASHED
281+00 - 283+35	STH 54 (WB)			468								_
281+02	STH 54 (WB)								54			
283+40 - 284+30	STH 54 (WB)			24								3-FT, 9-FT GAP
6+75QQ - 9+75QQ	CTH QQ		600									NO PASSING
8+50QQ - 9+90QQ	CTH QQ			216				64		2		
9+70QQ	CTH QQ								42			
10+80QQ - 11+30QQ	GRAND SEASONS DR							62		3	177	
11+00QQ - 14+50QQ	GRAND SEASONS DR		700									NO PASSING
11+00QQ - 11+20QQ	GRAND SEASONS DR			36								
11+00QQ	GRAND SEASONS DR								16			
STH 54 (EB)	LT TURN LANE				4		2					
STH 54 (EB)	RT TURN LANES				5		3					
STH 54 (WB)	LT TURN LANE				2		1					
STH 54 (WB)	RT TURN LANE				2		1					
CTH QQ					2	2	1					
	SUB TOTALS	575	2812	1995	15	2	8	494	149	12	177	•
	GRAND TOTALS	3	387	1995	15	2	8	494	149	12	177	•

SAWING CONCRETE

	(690.0250	
STATION - STATION	LOCATION	LF	REMARKS
STAGE 1A			
9+54QQ - 9+79QQ	CTH QQ (RT)	76	ISLAND
S ⁻	TAGE 1A TOTAL	76	-
STAGE 1			
276+07 - 276+22	STH 54 (EB) RT	68	
279+04 - 8+90QQ	CTH QQ (LT)	228	
10+80QQ - 11+39QQ	,	278	
10+70QQ - 11+00QQ	CTH QQ (LT)	62	ISLAND
10+79QQ	CTH QQ (LT)	12	=
	STAGE 1 TOTAL	648	_
STAGE 2			
9+20QQ - 9+88QQ	CTH QQ (RT)	166	=
;	STAGE 2 TOTAL	166	
STAGE 3			
9+20QQ - 9+93QQ	CTH QQ (RT)	141	
279+42 - 279+94	STH 54 (EB)	133	
280+96 - 281+52	STH 54 (WB)	149	
279+87 - 279+96	STH 54 (EB)	18	MEDIAN
;	STAGE 3 TOTAL	441	_
STAGE 4			
9+87QQ - 9+92QQ	CTH QQ (RT)	34	
276+07 - 276+22	STH 54 (EB) LT	39	=
;	STAGE 4 TOTAL	73	_
	_		=
	GRAND TOTAL	1404	

PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 12 SHEET: E

FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt PLOT NAME : 030201 mq.ppt PLOT SCALE : 1:1

REMOVING PAVEMENT MARKING

647.0955 647.0965 646.0600 ARROWS WORDS STATION - STATION LOCATION LF **EACH** EACH REMARKS STAGE 1A STH 54 (EB) LT TURN LANE STH 54 (WB) RT TURN LANE STAGE 1A TOTALS STAGE 1 265+00 - 270+40 STH 54 (EB) 540 277+00 - 278+60 STH 54 (EB) 160 STH 54 (EB) 125 STOP LINE 279+30 279+85 STH 54 (EB) 70 STOP LINE 180 280+90 STH 54 (WB) STOP LINE 281+05 STH 54 (WB) 90 STOP LINE 6+75QQ - 9+75QQ CTH QQ 600 9+70QQ CTH QQ 100 STOP LINE 11+00QQ - 14+50QQ GRAND SEASONS DR 700 STAGE 1 TOTALS 2565 STAGE 3 STH 54 (WB) LT TURN LANE STAGE 3 TOTALS GRAND TOTALS 2565

NOTE: REMOVING 18-INCH PAVEMENT MARKING, PAY AS 4-INCH (X5).

TEMPORARY PAVEMENT MARKING TAPE

				649.1200	
		649.0100	649.0801	REMOVABLE	
		REFLECTIVE	REMOVABLE	STOP LINE	
		4-INCH	8-INCH	18-INCH	
STATION - STATION	LOCATION	LF	LF	LF	REMARKS
STAGE 1					
265+00 - 270+40	STH 54 (EB)	540	540		WHITE EDGELINE
277+50 - 7+70QQ	STH 54 (EB)	500	500		WHITE EDGELINE
279+50	STH 54 (EB)			12	
280+50 - 282+75	STH 54 (EB)		276		WHITE
6+75QQ - 9+75QQ	CTH QQ	600			DOUBLE YELLOW C/L
9+70QQ	CTH QQ			17	
10+75QQ - 14+50QQ	GRAND SEASONS DR	375			WHITE EDGELINE
10+90QQ	GRAND SEASONS DR			12	
11+00QQ - 14+50QQ	GRAND SEASONS DR	700			DOUBLE YELLOW C/L
	STAGE 1 TOTALS	2715	1316	41	-
STAGE 2					
8+00QQ - 9+90QQ	CTH QQ	380			DOUBLE YELLOW C/L
	STAGE 2 TOTALS	380	0	0	
STAGE 3					
8+60QQ - 9+90QQ	CTH QQ	130			YELLOW C/L
	STAGE 3 TOTALS	130	0	0	
	GRAND TOTALS	3225	1316	41	•

SAWING ASPHALT

		690.0150	
STATION - STATION	LOCATION	LF	REMARKS
STAGE 1			
10+79QQ - 10+93QQ	CTH QQ (LT)	31	ISLAND
;	STAGE 1 TOTAL	31	=
STAGE 3			
9+54QQ - 9+77QQ	CTH QQ (RT)	26	TEMP ASPH
;	STAGE 3 TOTAL	26	=
			_
	GRAND TOTAL	57	

CONSTRUCTION STAKING

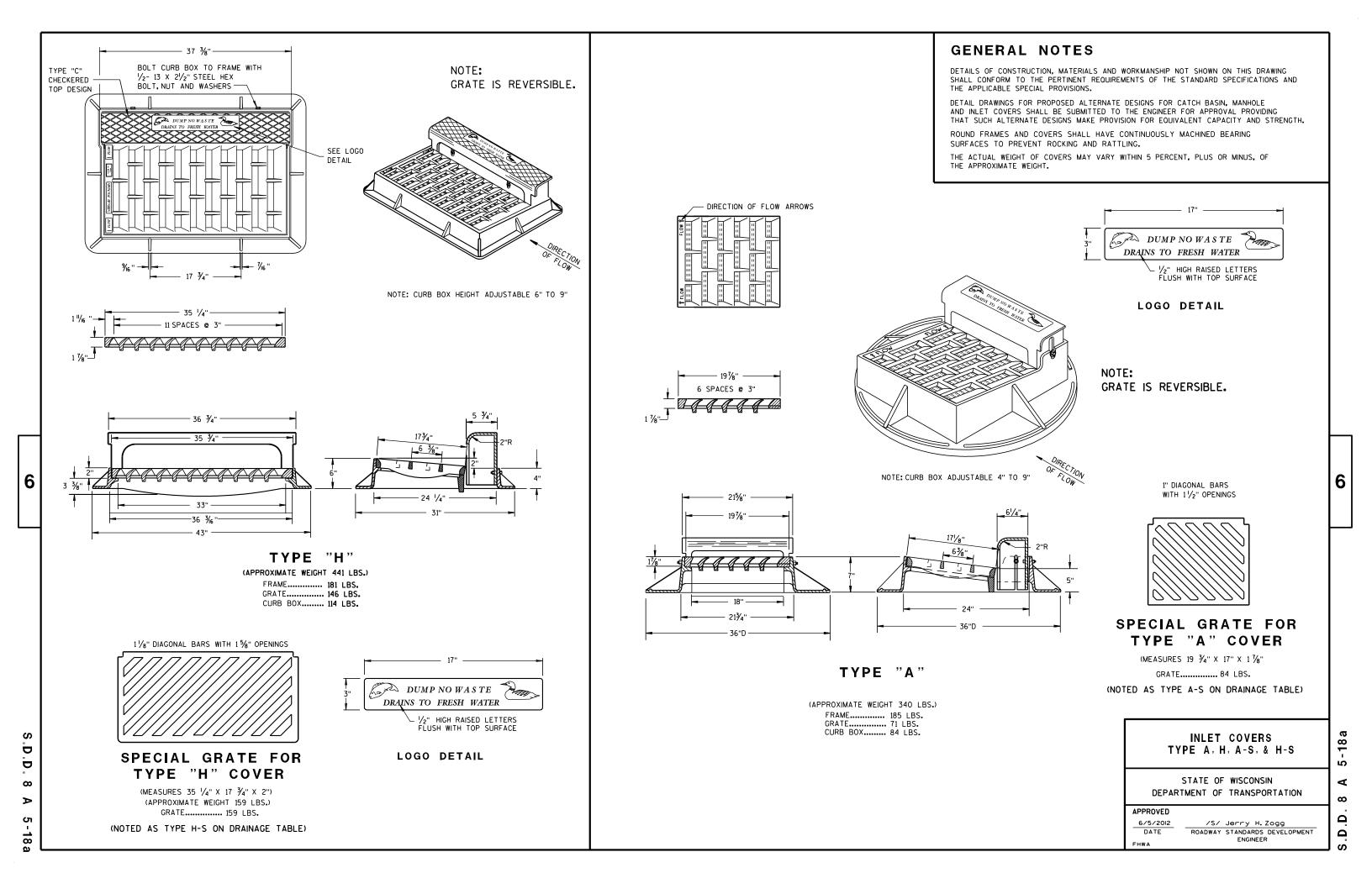
STATION - STATION	LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB & GUTTER LF	650.8500 ELECTRICAL INSTALLATIONS LS	650.9910 SUPPLEMENTAL CONTROL LS
STAGE 1							
279+04 - 8+90QQ	CTH QQ (LT)	1	187	187	125	1	1
279+64 - 279+98	STH 54 (EB) RT				92		
ST	AGE 1 TOTALS	1	187	187	217	1	1
	:						
G	RAND TOTALS	1	187	187	217	1	1

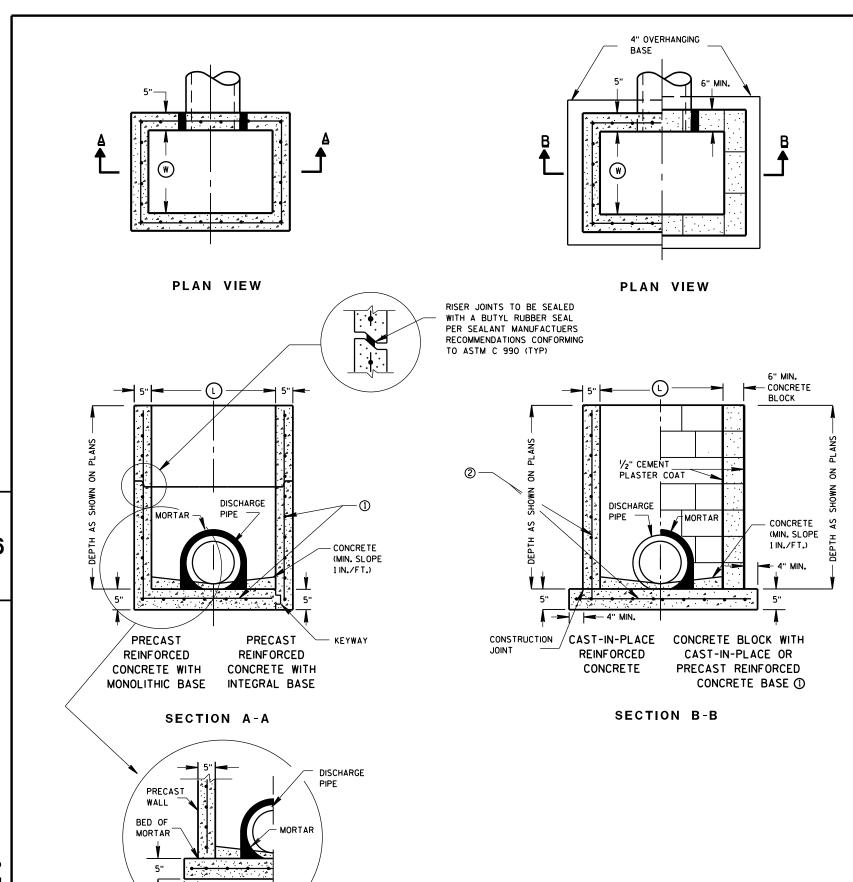
PROJECT NO: 6991-01-70 HWY: STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES - 13 SHEET: **E**

FILE NAME : N:\pds\design id\6991-01-00 STH 54\Quantities\030201 mq.ppt PLOT NAME : 030201 mq.ppt PLOT SCALE : 1:1

Standard Detail Drawing List

08A05-18A	INLET COVERS TYPE A, H, A-S, & H-S
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-07	CONDUI T
09B04-10	PULL BOX
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C03-03	TRANSFORMER/PEDESTAL BASES
09006-06	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-04	CONCRETE BASE TYPE 10
09C13-02	CONCRETE BASE TYPE 10 & TYPE 13 EXTENSION
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-02	SIGNAL OR LIGHTING CONTROL CABINET
09E01-12B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-12G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-04	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E08-03	TYPE 9 POLE 15' -30' MONOTUBE ARM
09E08-04E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09F15-03B	
09G01-03A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
13C01-16	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-02A	CONCRETE PAVEMENT JOINTING
13C18-02B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-02C	CONCRETE PAVEMENT JOINT TIES
13C18-02D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-01 15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D12-03 15D21-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P. H. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
10021-02	TRAILIG CONTROL, INTERSECTION WITHIN STINGLE LANE CLUSURE





GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

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

- 4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
- 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
- OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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

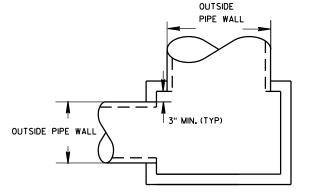
- 1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

	INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	s	т	v	WM
		WIDTH (W) (FT)	LENGTH (L) (FT)									
	2X2-FT	2	2	X	х				Х		х	
ſ	2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
[2X3-FT	2	3					Х				
	2.5X3-FT	2.5	3				Х					

PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER					
INLET SIZE	WIDTH (IN)	LENGTH (IN)				
2X2-FT	12	12				
2X2.5-FT	12	18				
2X3-FT	12	24				
2.5X3-FT	18	24				



DETAIL "A"

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 6/5/2012 DATE

FHWA

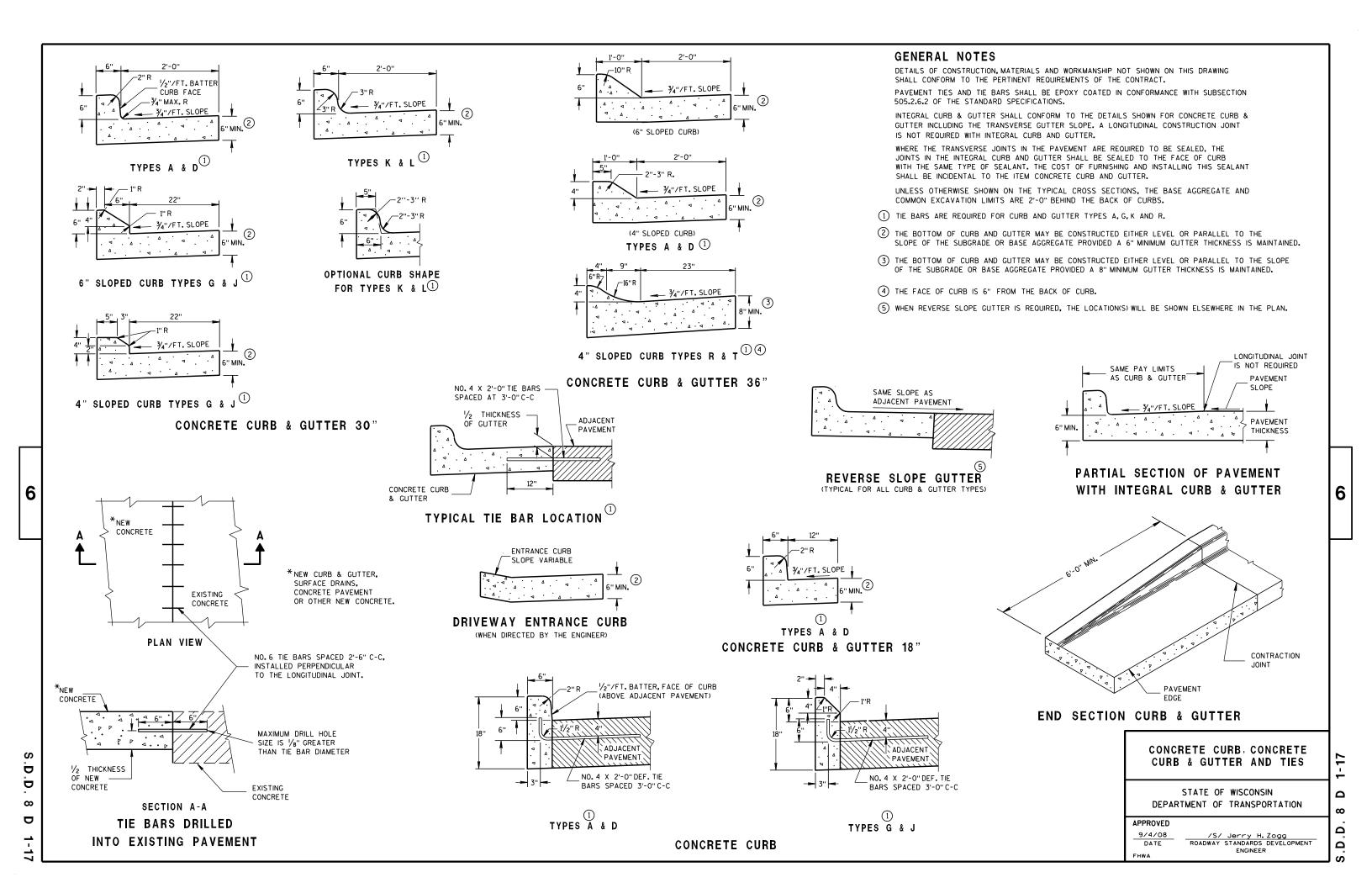
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

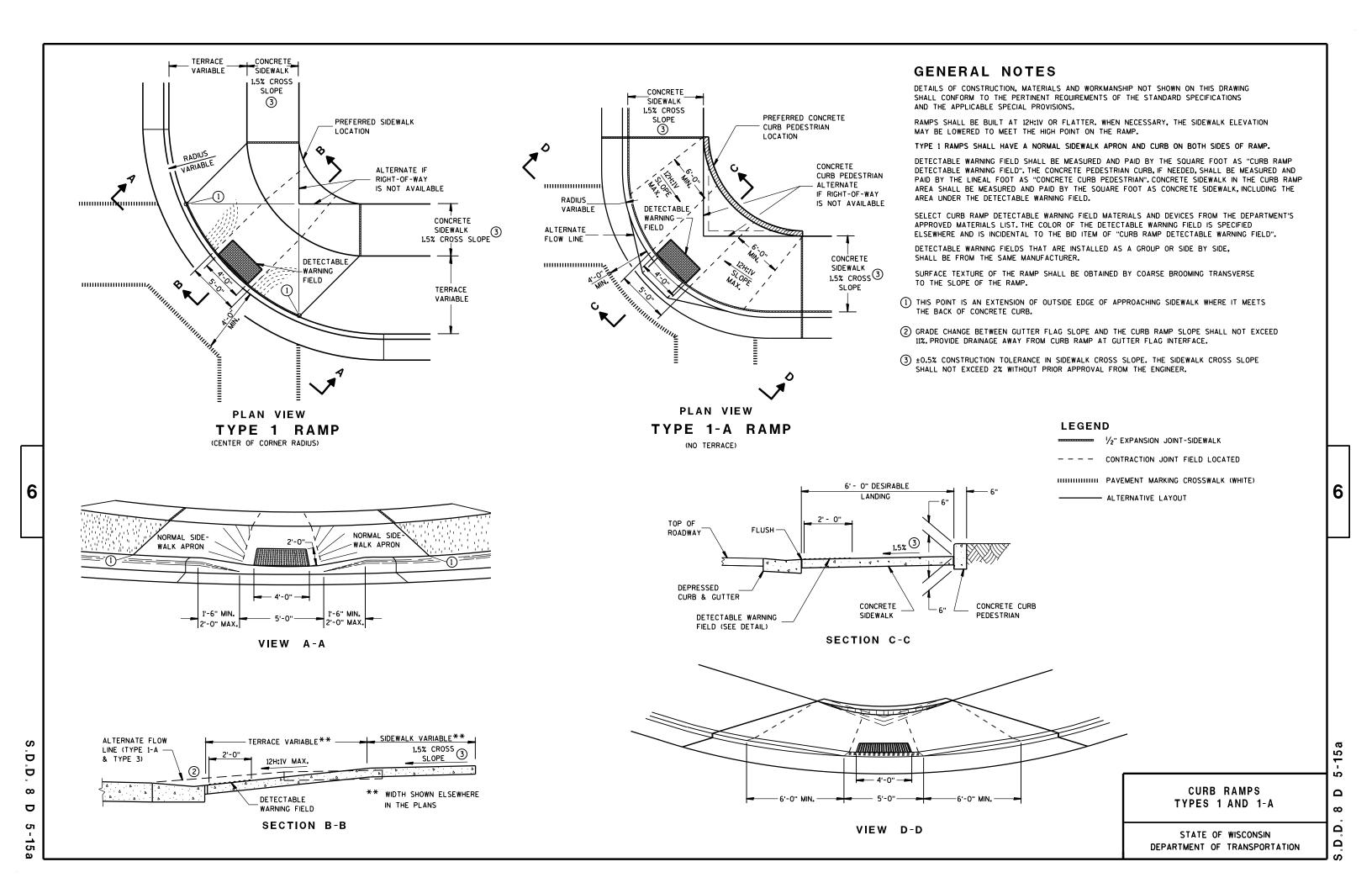
ENGINEER

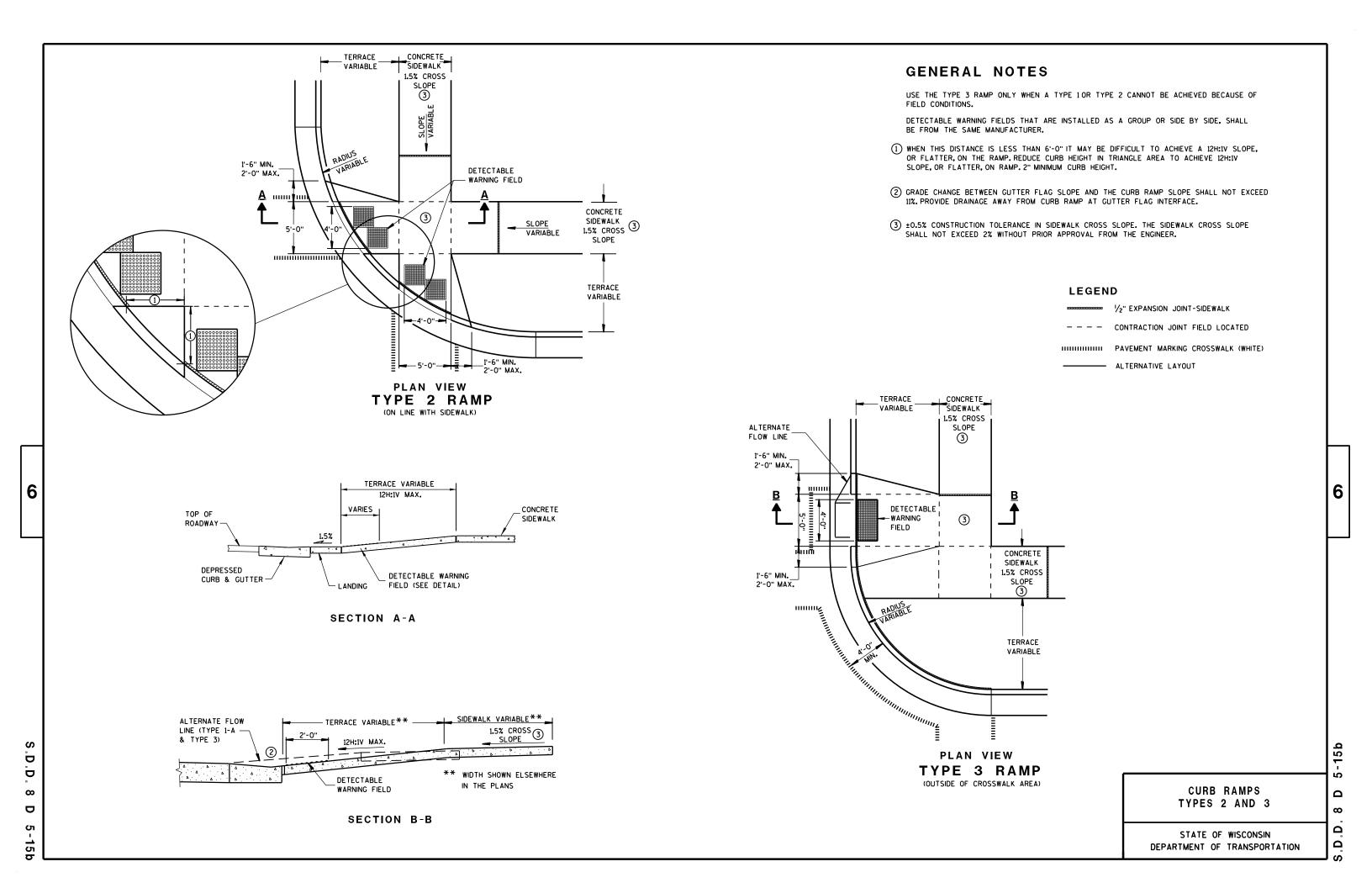
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

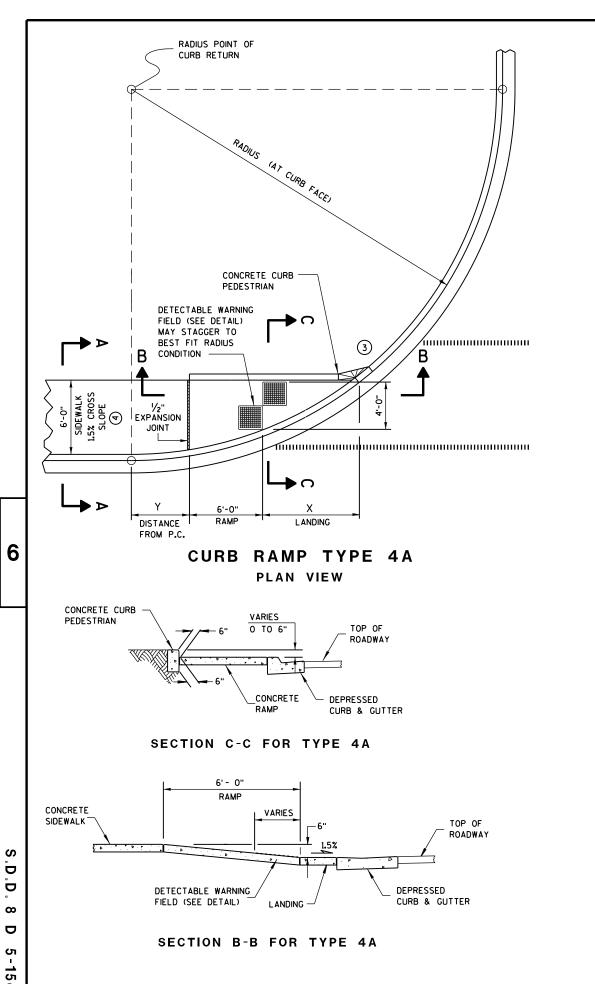
SEPARATE PRECAST REINFORCED

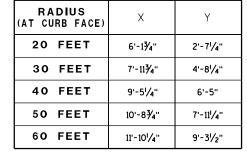
CONCRETE BASE OPTION











GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE.

4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS

SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

ISOMETRIC VIEW FOR TYPE 4A

ISOMETRIC VIEW FOR TYPE 4A1

₩ 1/2" EXPANSION JOINT-SIDEWALK

HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

CONTRACTION JOINT FIELD LOCATED

CURB RAMPS

TYPES 4A AND 4A1

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

LEGEND

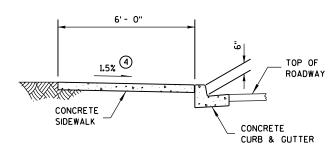
OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

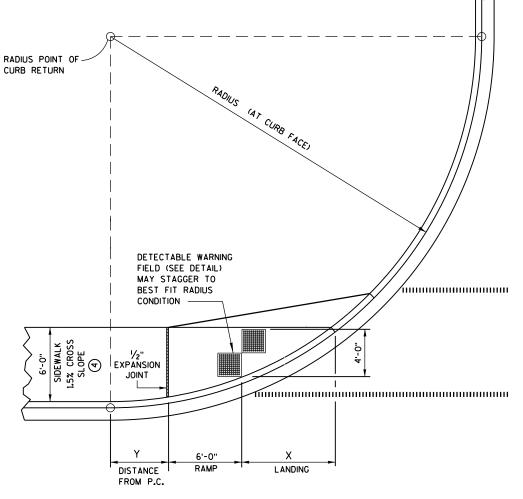
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

SHALL BE FROM THE SAME MANUFACTURER.

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

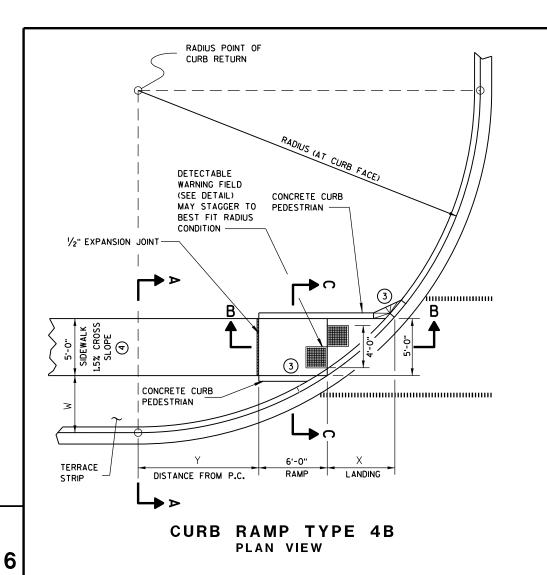


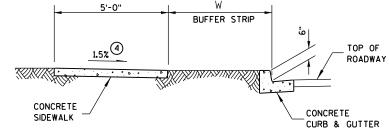
CURB RAMP TYPE 4A1
PLAN VIEW

15c

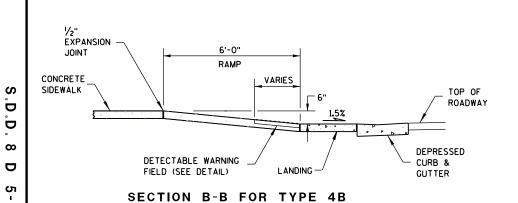
6

D.D. 8 D 5





SECTION A-A FOR TYPE 4B



LEGEND

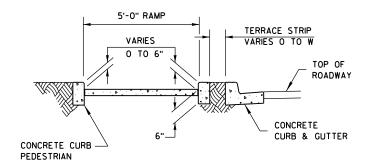
/2" EXPANSION JOINT-SIDEWALK

---- CONTRACTION JOINT FIELD LOCATED

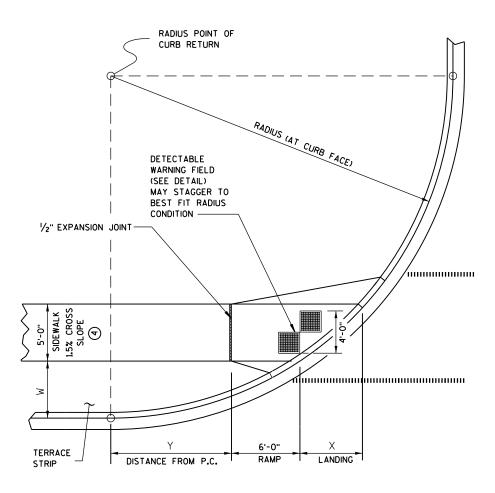
HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS	W = 3' - Ø"		W = 4' - 0"		W =	5′ - 0"	W =	6′ - Ø"	W = 7' - 0"	
(AT CURB FACE)	X	Y	X	Υ	X	Y	X	Y	X	Y
20 FEET	5'-51/2"	4'-61/2"	4'-81/2"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-31/2"	3'-11/2"	9'-21/2"
30 FEET	7'-3¾"	7'-1"	6'-51/2"	8'-11'/2"	5'-91/4"	10'-7"	5'-21/2"	12'-0"	4'-8¾"	13'-3'/4"
40 FEET	8'-91/2"	9'-21/2"	7'-10"	11'-5'/4"	7'-1"	13'-41/2"	6'-5¾"	15'-¾"	5'-111/2"	16'-7'/4"
50 FEET	10'-¾"	11'-3⁄4''	9'-1/4"	13'-7'/4"	8'-21/2"	15'-91/2"	7'-61/2"	17'-9"	6'-11¾"	19'-6'/4"
60 FEET	11'-21/2"	12'-8¾"	10'-¾"	15'-61/2"	9'-21/4"	17'-11¾"	8'-5¾"	20'-1¾"	7'-101/2"	22'-11/2"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B



CURB RAMP TYPE 4B1
PLAN VIEW

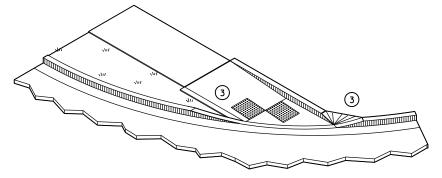
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

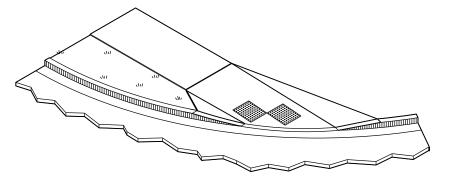
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- (3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4B

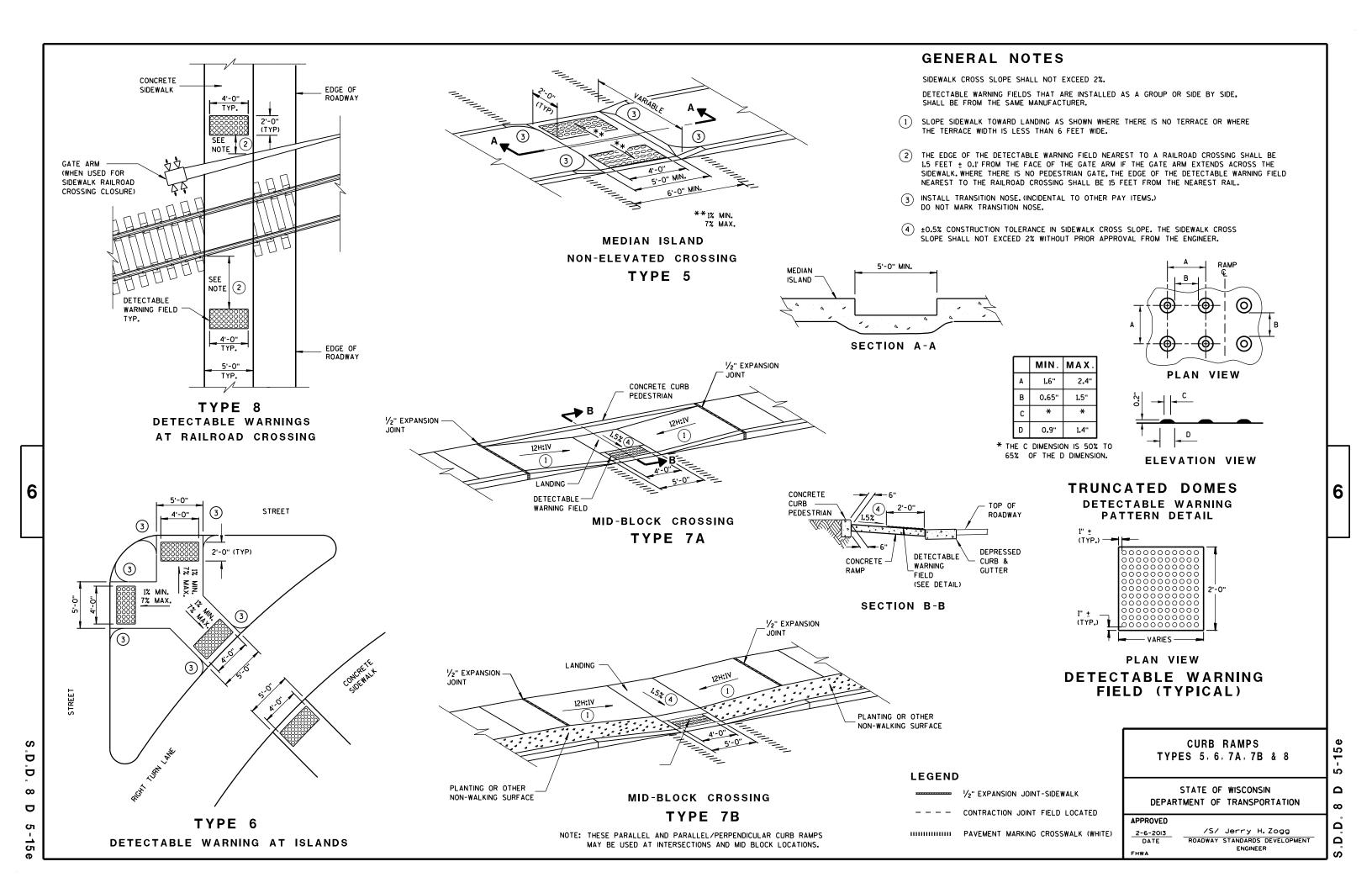


ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS Type 4B and 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

D.D. 8 D 5-15d



TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

တ ∞





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

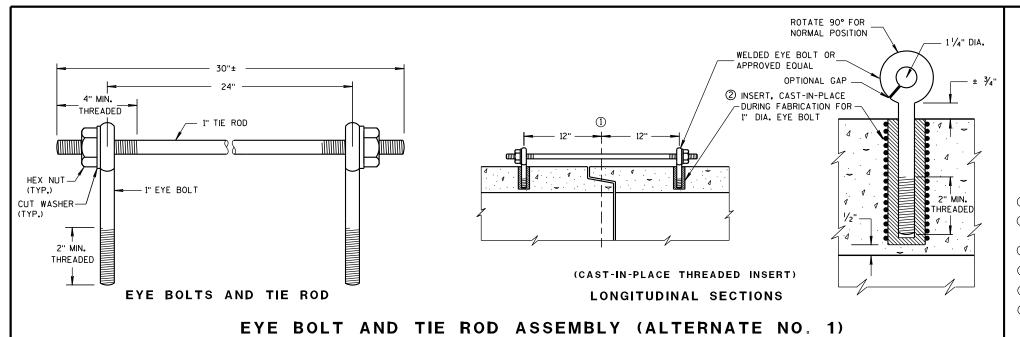
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

0

ш

 ∞



GENERAL NOTES

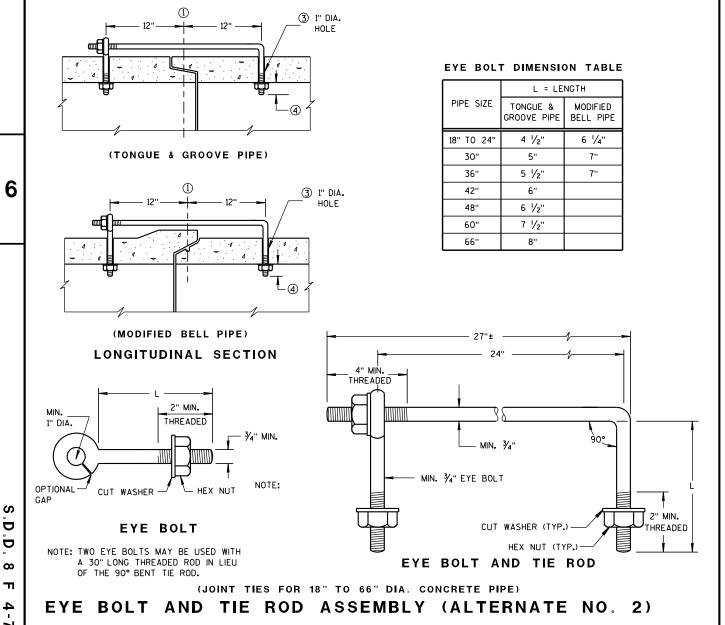
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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

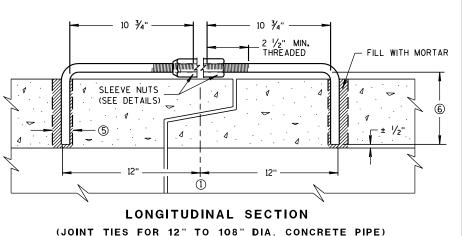
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

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

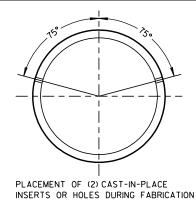


D

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

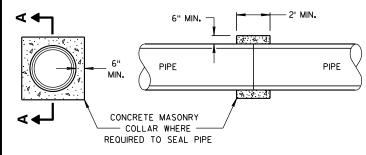


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

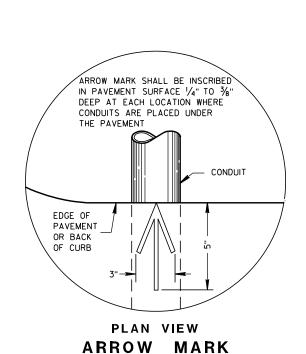
 ∞

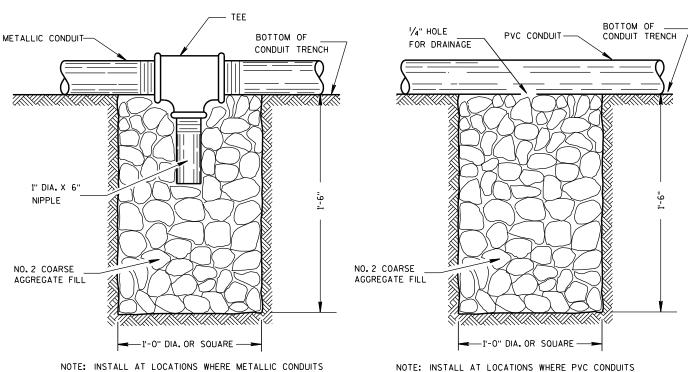
Ω



6

Ω





DRAIN SUMP FOR METALLIC CONDUIT

CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

ARROW MARK INSCRIBED IN PAVEMENT SURFACE OVER ← OF CONDUIT (BOTH ENDS) NORMAL EDGE ÒF PAVEMENT PAVEMENT **PAVEMENT** OR BACK OF CURB BASE COURSE BACKFILL SLOPE 1/8"/FT. EITHER DIRECTION *DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES CONDUIT, PITCH TO DRAIN WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652,2,2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

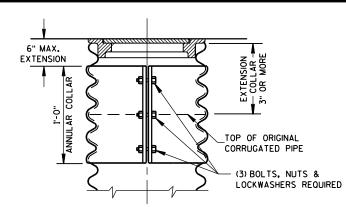
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Balu Ananthanarayanan 10/23/03 STATE ELECTRICAL ENGINEER FOR HWYS

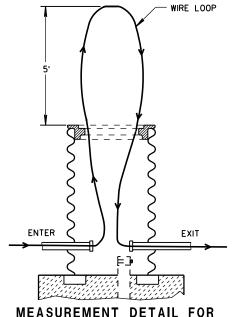
Ö

- * THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.
- NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL



CORRUGATED PIPE EXTENDER

HEAVY DUTY FRAME -

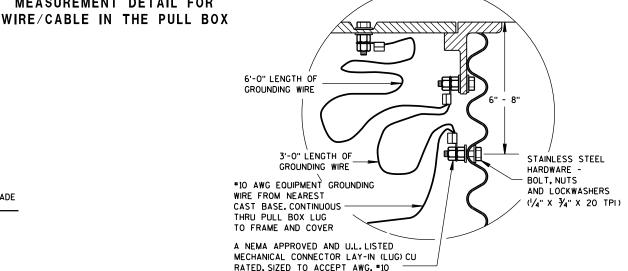


ALTERNATE COVER (LOCKING)

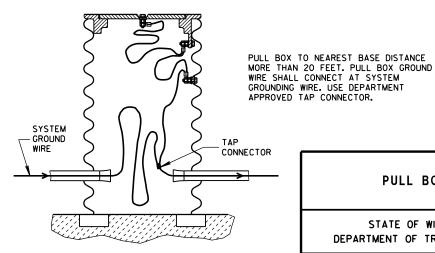
SECTION

воттом

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND

LOCATION IN STEEL PULL BOXES

TO #4 COPPER STRANDED WIRE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

FHWA

2-7-2013 /S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER

PULL BOX

TO THE PULL BOX BID PRICE.

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED. SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

S.D.D. 9B2. "CONDUIT". APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

AND COVER ELECTRIC WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE FINAL GRADE ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED CUT OPENINGS AS REQUIRED IN THE FIELD 6" MIN. ALL CONDUIT PITCHED (TYP.) TO DRAIN TO PULL BOXES 4 TO 8 BRICKS **EQUALLY SPACED** 2" DRAIN DUCT TO DITCH OR SEWER NO. 2 COARSE WHEN SPECIFIED AGGREGATE 2" PVC PIPE CAP ON BOTH ENDS (SEE SECTION 501 WITH 7,8 1/4" HOLES DRILLED OF THE STANDARD IN EACH END. SPECIFICATIONS) INSTALL END BELLS (U.L. LISTED FOR ELECTRICAL USE) ON ALL NONMETALLIC CONDUIT BEFORE INSTALLATION OF WIRE AND/OR CABLE.

PULL BOX

b D 9 ₩

6

 $\mathbf{\omega}$

0

Ω

CONDUIT WITHIN

6" DIA.

ANCHOR RODS SHALL BE

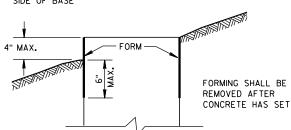
ORIENTED PARALLEL TO

D

Ō

ဖ

C



QUANTITY	CONCRE	CONCRETE BASE TYP			
REQUIREMENTS	1	2	5		
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40		
LBS. OF HOOP BAR STEEL	NONE	23	16		
LBS. OF VERTICAL BAR STEEL	NONE	60	18		

FORMING DETAIL

1'-8"

-CONDUIT

123/4" BOLT

CIRCLE

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

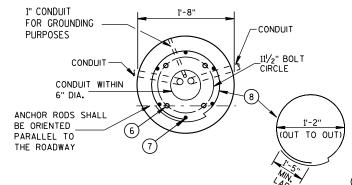
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

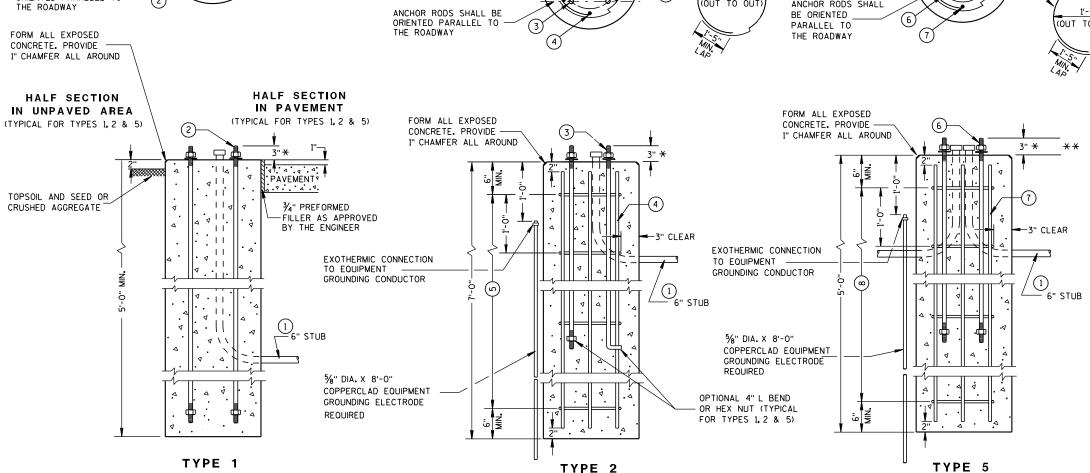
MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

1" CONDUIT FOR GROUNDING -CONDUIT PURPOSES 111/2" BOLT CIRCLE CONDUIT WITHIN 6" DIA. THE ROADWAY





CONCRETE BASES

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USFD.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1FOOT OR LESS.

A NO. 4 AWG. STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED. THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH, THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- 1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES, THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
- (2) (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (3) (4) 1" DIA. X 5'-0" ANCHOR RODS.
- (4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.
- (5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.
- (6) (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

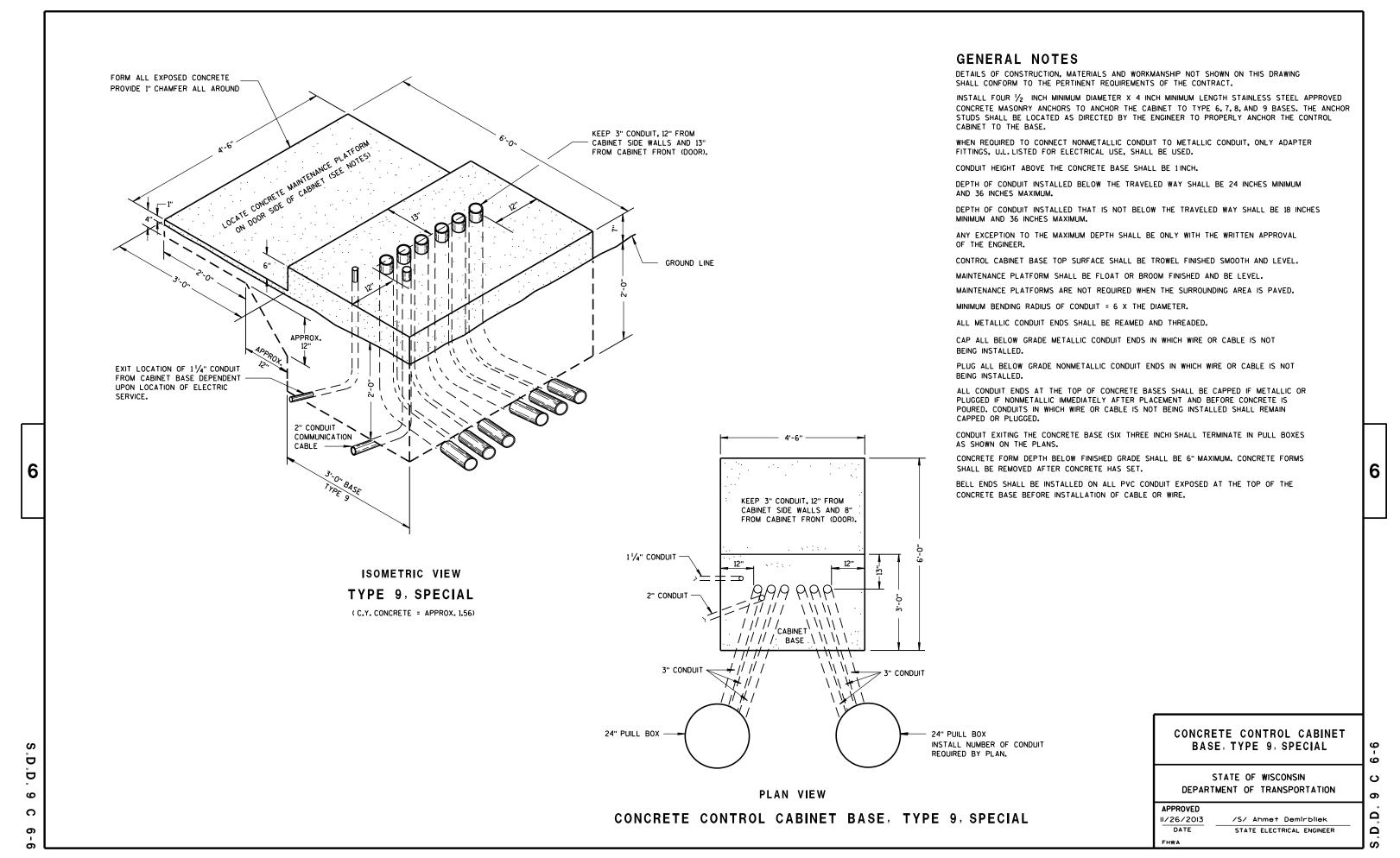
APPROVED 3/3/10 /S/ Joanna L. Bush

STATE ELECTRICAL ENGINEER FOR HWYS

C 6 Ω Ω

^{*} ANY ANCHOR ROD PROJECTION SHORTER THAN 23/4" OR LONGER THAN 31/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

 $^{^{\}star\star}$ for nonbreakaway installations, 4 $^{\prime}\!\!/_2$ " * anchor rod projection with the USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.



BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L.LISTED FOR ELECTRICAL USE. SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL. THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

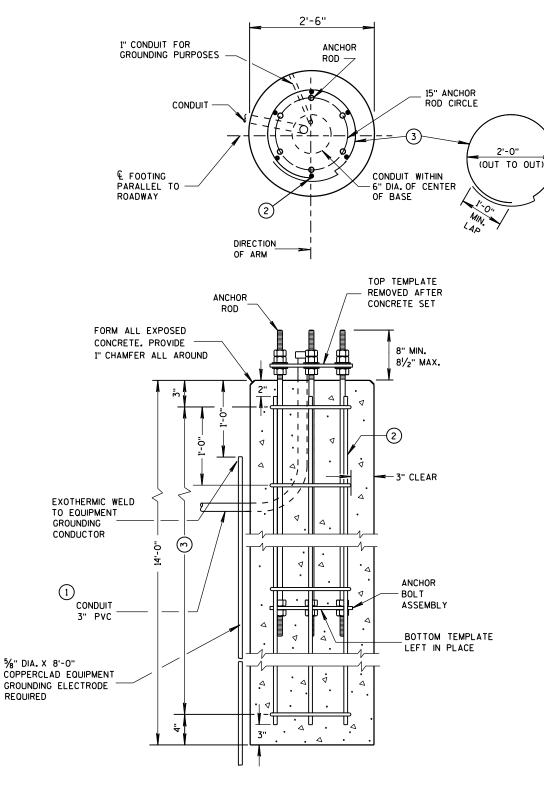
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

- 1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
- (2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.
- (3) (15) NO. 4 X 7'-4" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

CONCRETE MASONRY	fc=3,500 p	s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000	p.s.i.
ANCHOR RODS, AASHTO M314 GRADE 55	fy=55,000	p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000	p.s.i.



CONCRETE BASE TYPE 10 (FOR TYPE 9 & 10 POLES)

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

€ FOOTING PARALLEL TO-1/2" THICK TEMPLATES ROADWAY 11/2" ANCHOR RODS DIRECTION TOP AND BOTTOM TEMPLATES TOP TEMPLATE REMOVED AFTER CONCRETE SET 8" MIN 81/2" MAX. TOP OF CONCRETE THREAD TOP 81/2" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 51/2" FOR 2 NUTS PER ANCHOR ROD. HOT-DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR RODS (AASHTO M111) AND HOT-DIP NUTS AND WASHERS (AASHTO M232). USE ZINC COATED NUTS MANUFACTURED WITH (6) - 1¹/₂" X 50" SUFFICIENT ALLOWANCE TO ALLOW NUTS ANCHOR RODS TO RUN FREELY ON THE THREADS. BOTTOM TEMPLATE LEFT IN PLACE THREAD BOTTOM OF ANCHOR ROD 51/2" ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10

ANCHOR ASSEMBLY

NO MORE THAN 4" BELOW

GRADE ON THE LOWER

SIDE OF BASE

4" MAX.

ANCHOR ROD CIRCLE

DIAMETER = 15"

OUANTITY REQUIREMENTS

APPROX. CUBIC
YARDS OF CONCRETE

2.5

YARDS OF CONCRETE 2.5

LBS. OF HOOP
BAR STEEL 69

LBS. OF VERTICAL
BAR STEEL 122

CONCRETE BASE TYPE 10

TROWEL FINISH

OF CONCRETE

2" MAX.-

- FORM

4" MAX.

FORMING DETAIL

AND LEVEL TOP

FORMING SHALL BE REMOVED AFTER

CONCRETE HAS SET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ပ

တ

Ω

Ω

APPROVED
11-26-2013 /S.

FHWA

DATE STATE ELECTRICAL ENGINEER

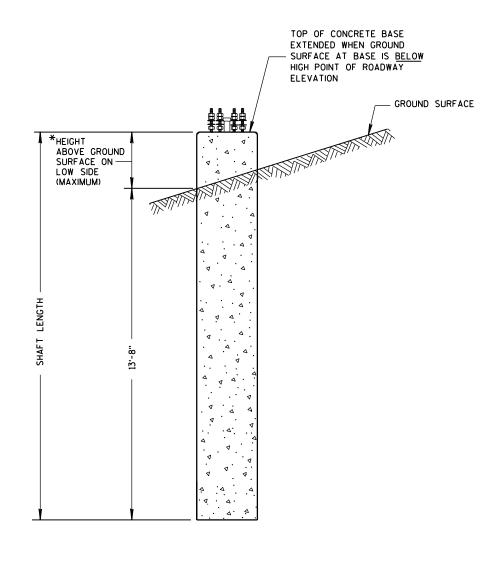
REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 10 CONCRETE BASE

HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF *6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS.OF HOOP BAR STEEL	LBS. OF VERTICAL BAR STEEL
>0" TO 6"	10"	14'-6"	14'-1"	16	2.6	78	127
>6" TO 1'-0"	1'-4"	15'-0"	14'-7"	16	2.7	78	131
>1'-0" TO 1'-6"	1'-10"	15'-6"	15'-1"	17	2.8	83	136
>1'-6" TO 2'-0"	2'-4"	16'-0"	15'-7"	17	2.9	83	141

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 13 CONCRETE BASE

HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF *6 VERTICAL REINF.	NO.OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF H.S. BAR STEEL
>0" TO 6"	10"	15'-0"	14'-7"	16	6.5	447
>6" TO 1'-0"	1'-4"	15'-6"	15'-1"	16	6.6	454
>1'-0" TO 1'-6"	1'-10"	16'-0"	15'-7"	17	6.8	469
>1'-6" TO 2'-0"	2'-4"	16'-6"	16'-1"	17	7.0	476

TOP OF CONCRETE BASE EXTENDED WHEN GROUND SURFACE AT BASE IS BELOW



CONCRETE BASE TYPE 10 (EXTENDED)

6

D D

9

13

HIGH POINT OF ROADWAY ELEVATION GROUND SURFACE *HEIGHT ABOVE GROUND SURFACE ON-LOW SIDE (MAXIMUM) 1'-9" MIN. & & FOOTING TYPE 10 & TYPE 13 EXTENSION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

CONCRETE BASE

6

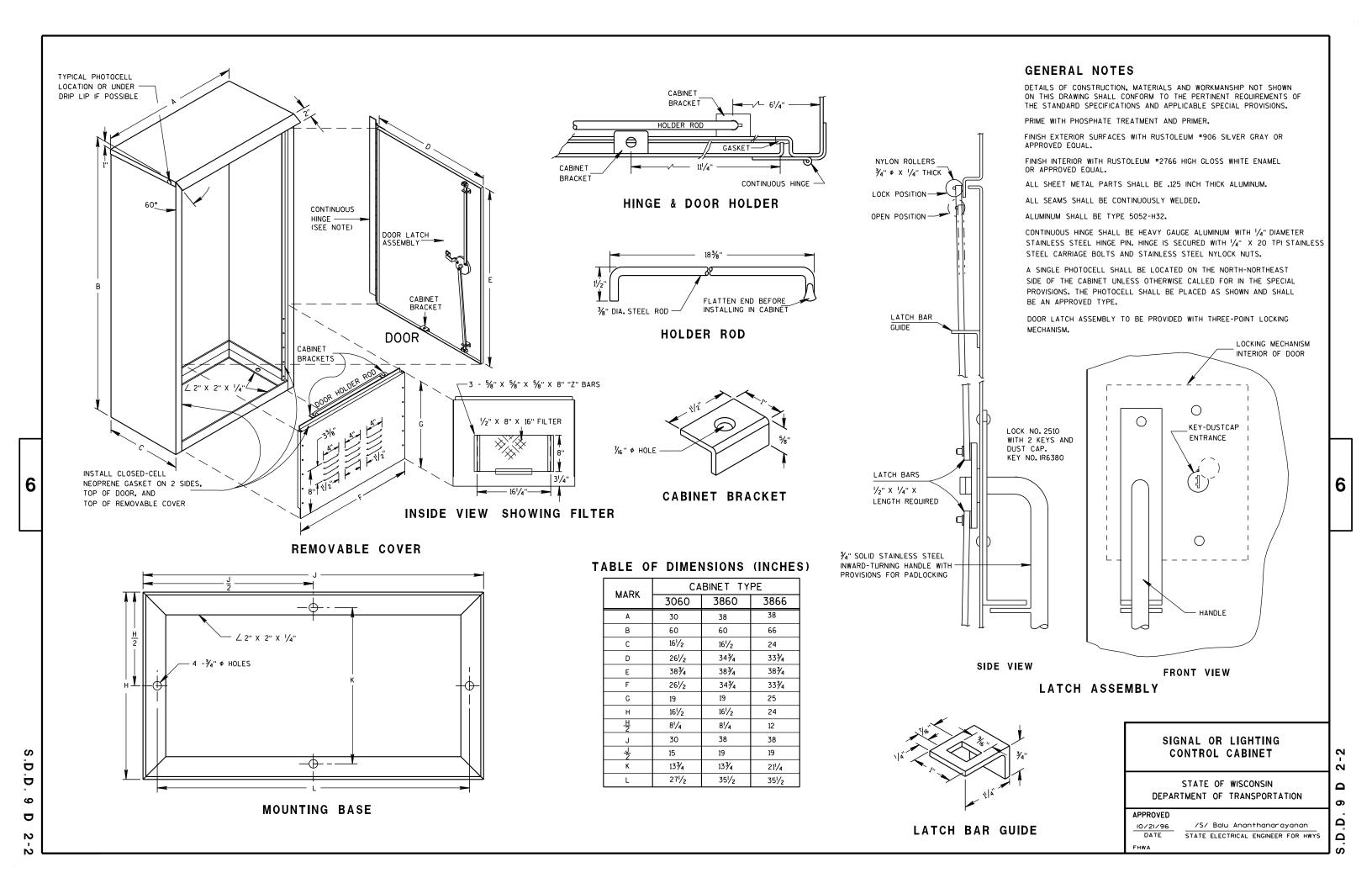
ပ

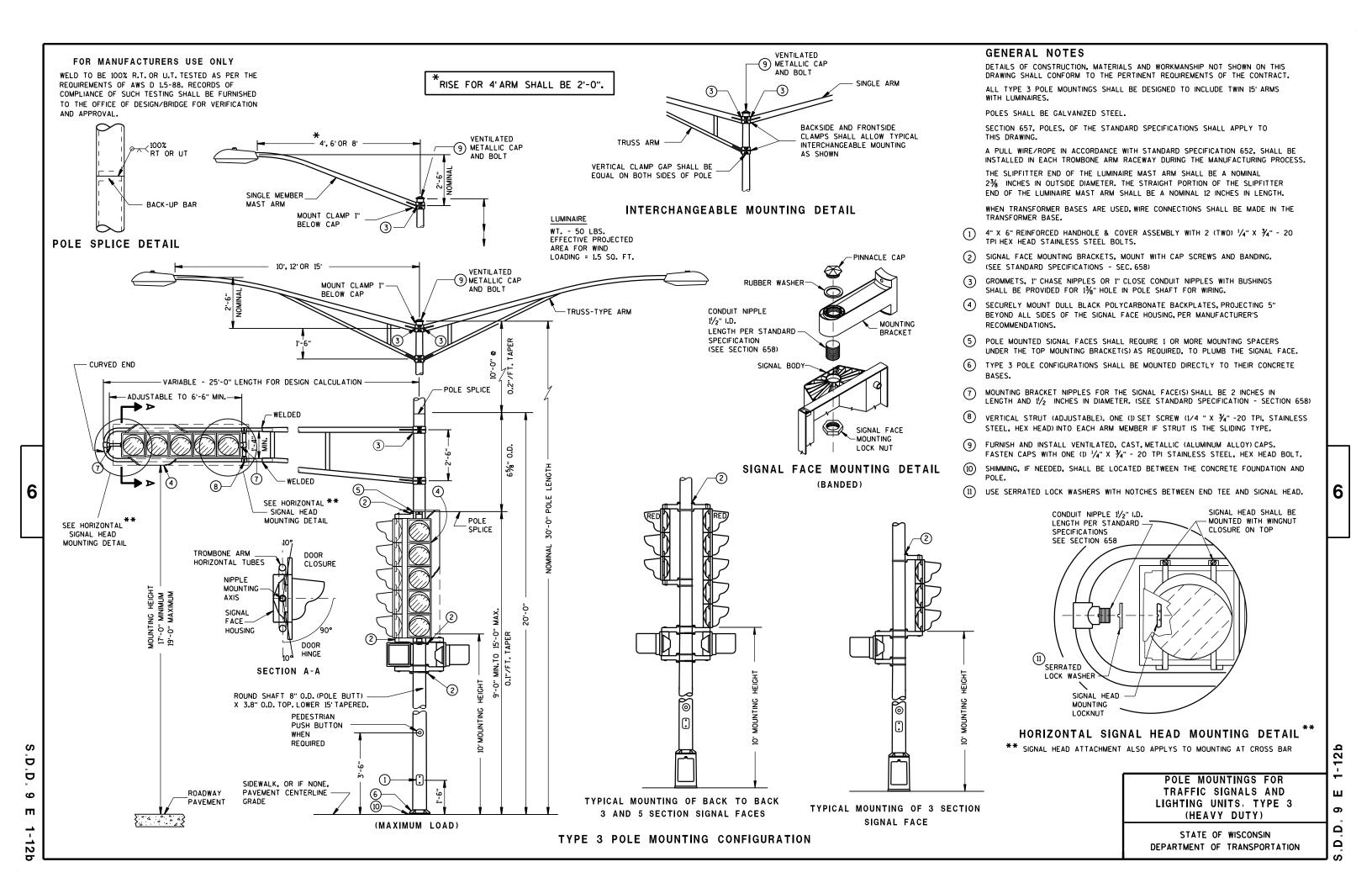
တ

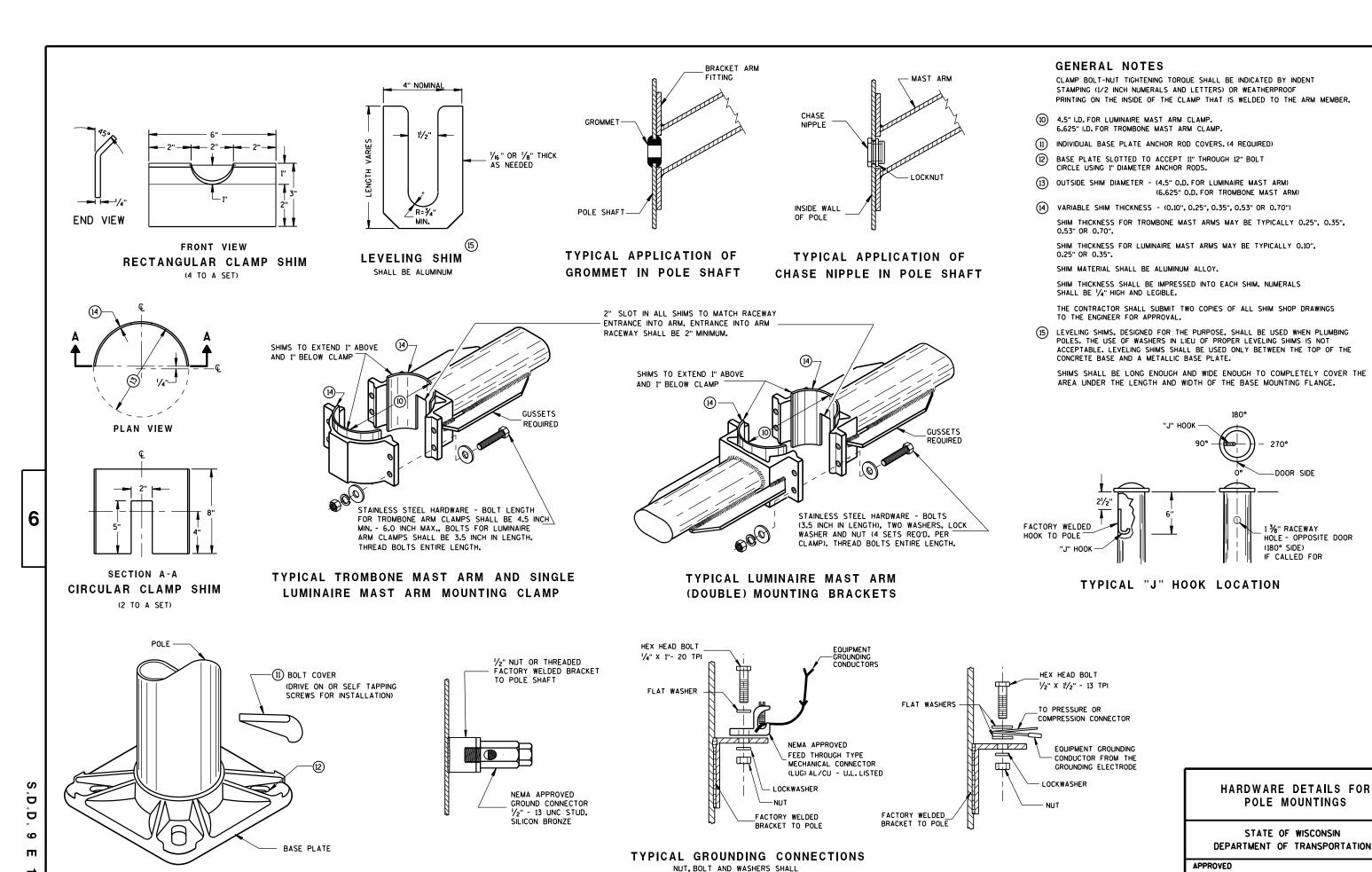
Ω

APPROVED 11-26-2013 /S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER FHWA

CONCRETE BASE TYPE 13 (EXTENDED)







BE STAINLESS STEEL

BASE PLATE

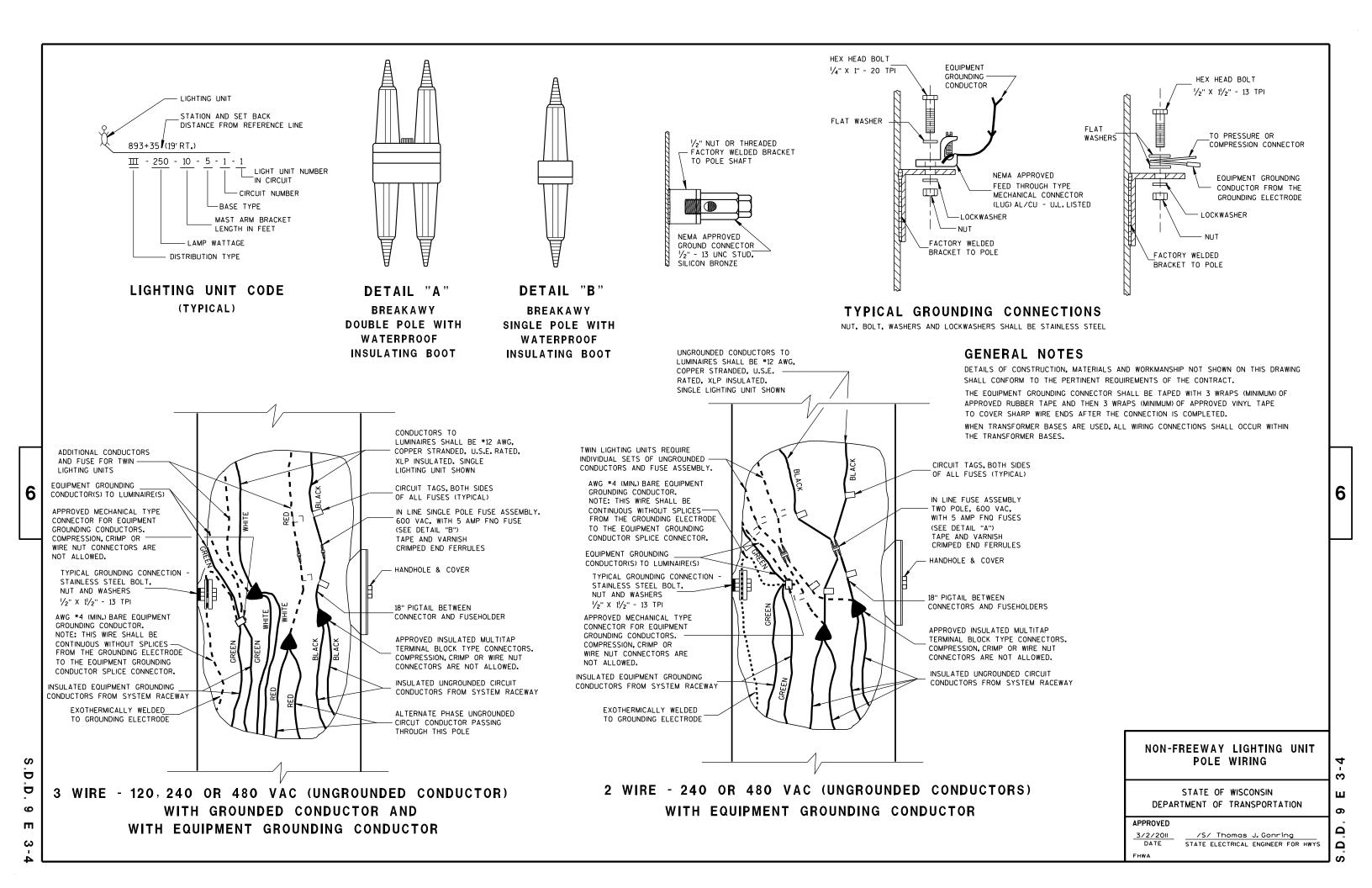
S.D.D. 9 E 1-12g

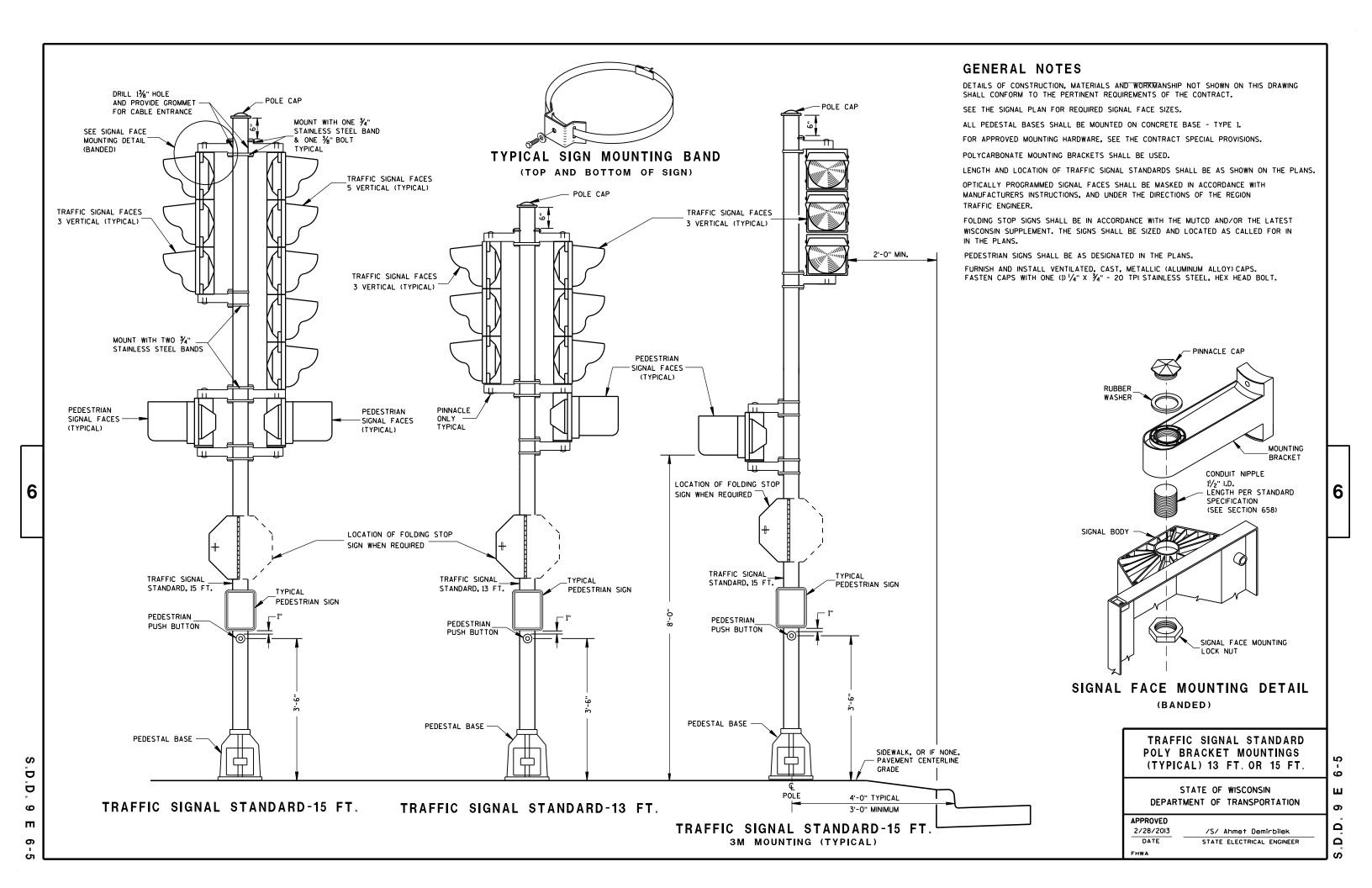
STATE ELECTRICAL ENGINEER

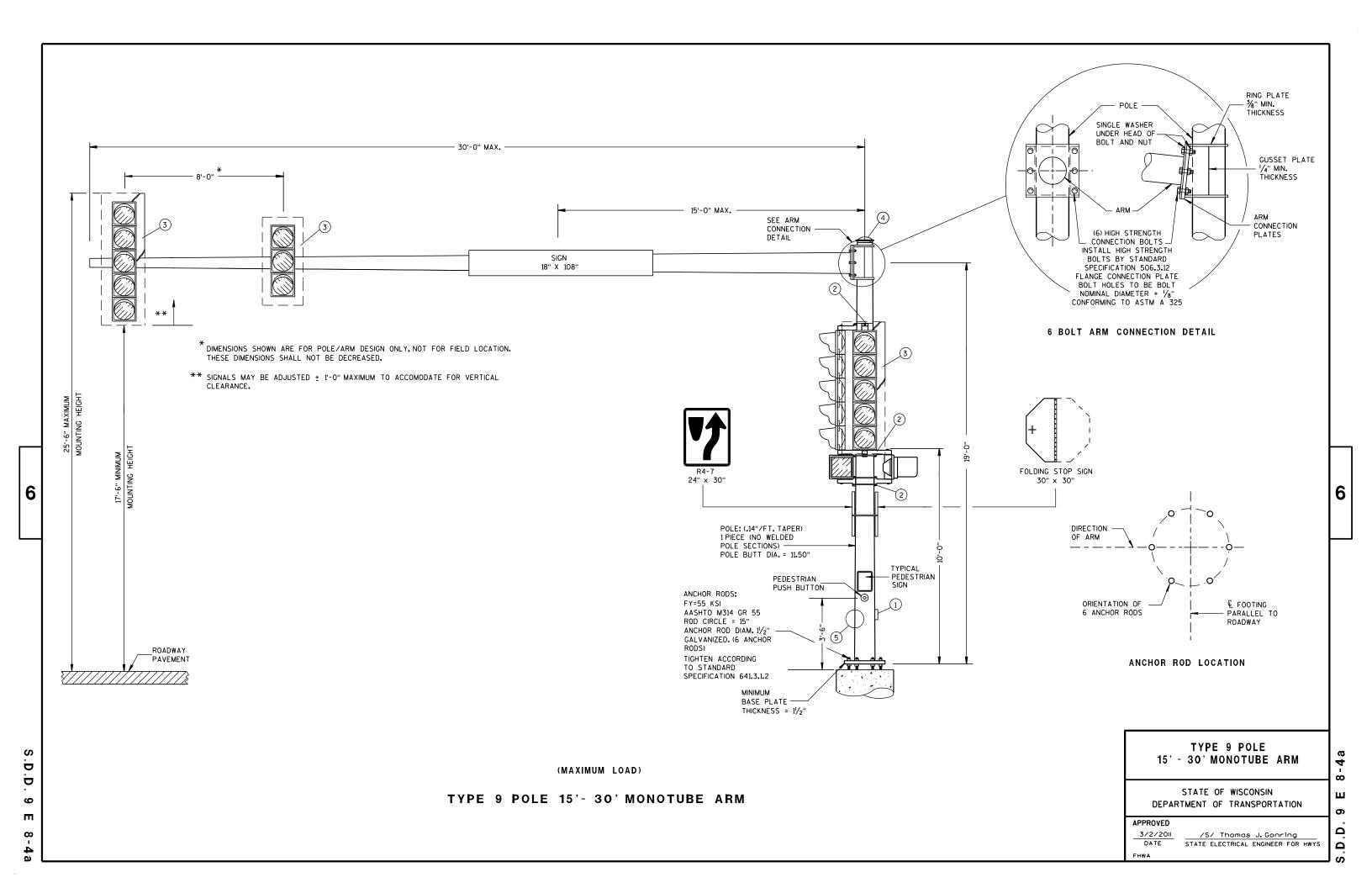
2/7/2013

DATE

FHWA







POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % + RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES, PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE LATEST AASHTO AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY I FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH 34" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL $\frac{1}{2}$ " HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING, THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

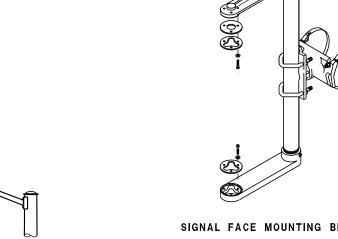
SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

- (1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO 1/4" X 3/4" 20 TPI STAINLESS STEEL HEX HEAD BOLTS.
- (2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).
- 3 SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.
- (4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.
- (5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM) PROVIDE HOLE IN BRACKET FOR 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.
- (6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.
- (7) INSTALL DEPARTMENT PROVIDED STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS

MOUNTING HEIGHT SHALL BE 5'-O" ABOVE THE CURB OR SHOULDER .ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.



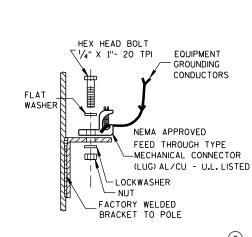
5'-0"

STRUCTURAL IDENTIFICATION

PLAQUE PLACEMENT

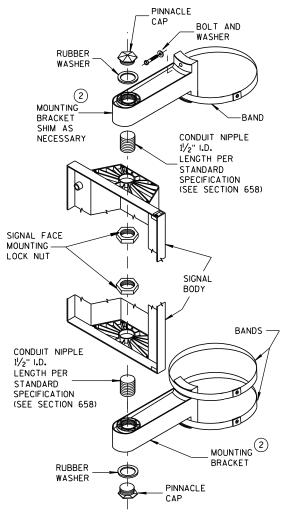
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANUFACTURER'S RECOMMENDATION)

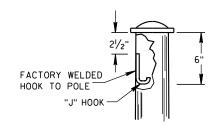


TYPICAL GROUNDING CONNECTIONS

NUT. BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



"J" HOOK WIRE SUPPORT

GENERAL NOTES AND HARDWARE **DETAILS FOR TYPE 9, 10, 12 & 13** POLES WITH MONOTUBE ARMS

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

3/2/2011 /S/ Thomas J. Gonring STATE ELECTRICAL ENGINEER FOR HWYS

 ∞

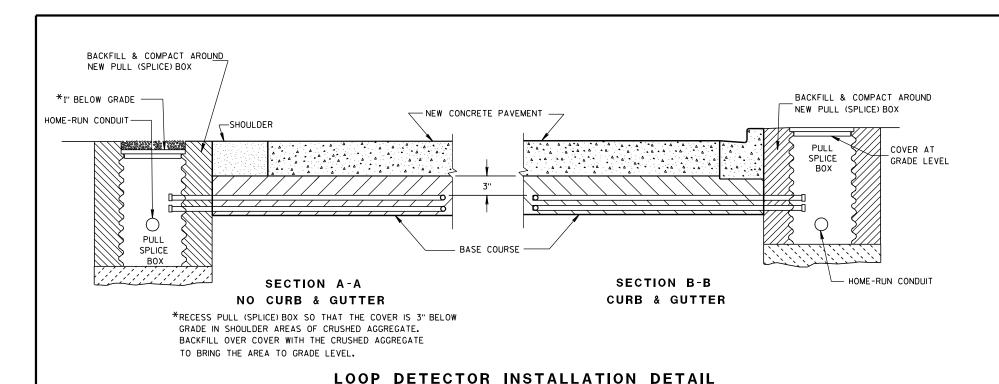
ш

တ

6

Ω Δ





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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT *12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

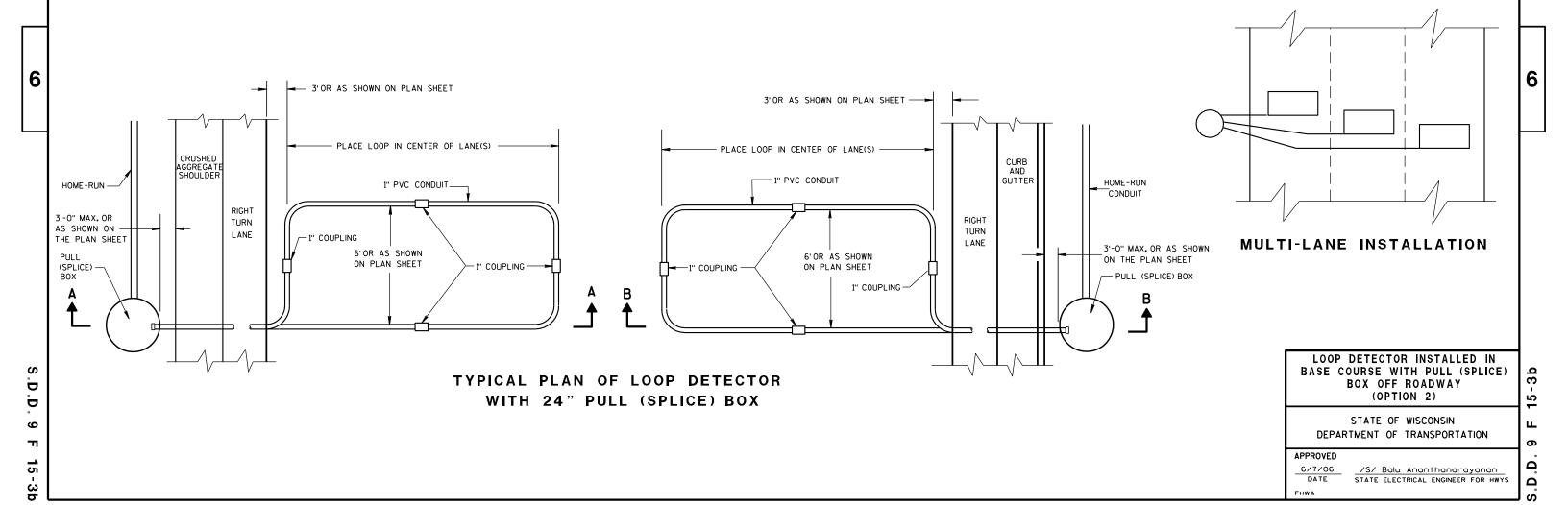
THE #12 AWG.LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

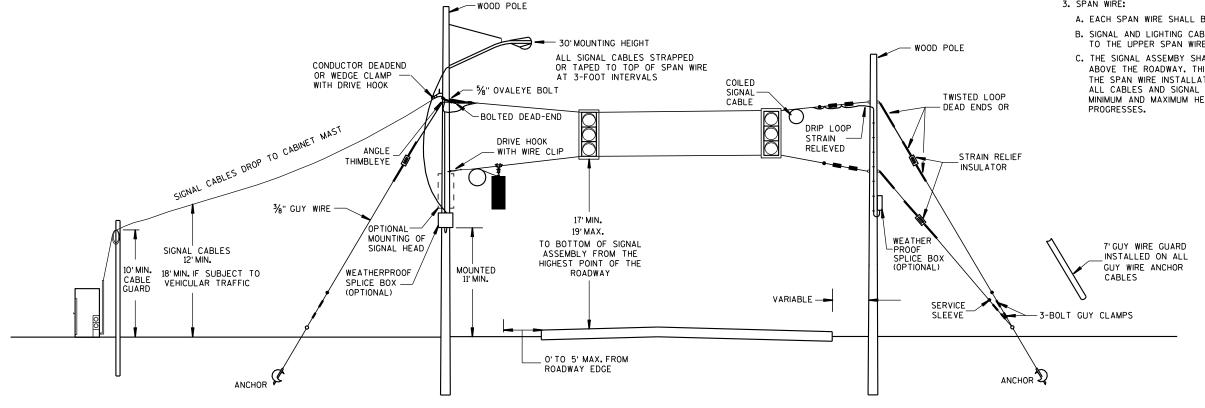
PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



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

- 1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
- 2. SIGNAL FACES:
- A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
- B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
- C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
- D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
- A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
- B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
- C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE, MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK



SPAN WIRE TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

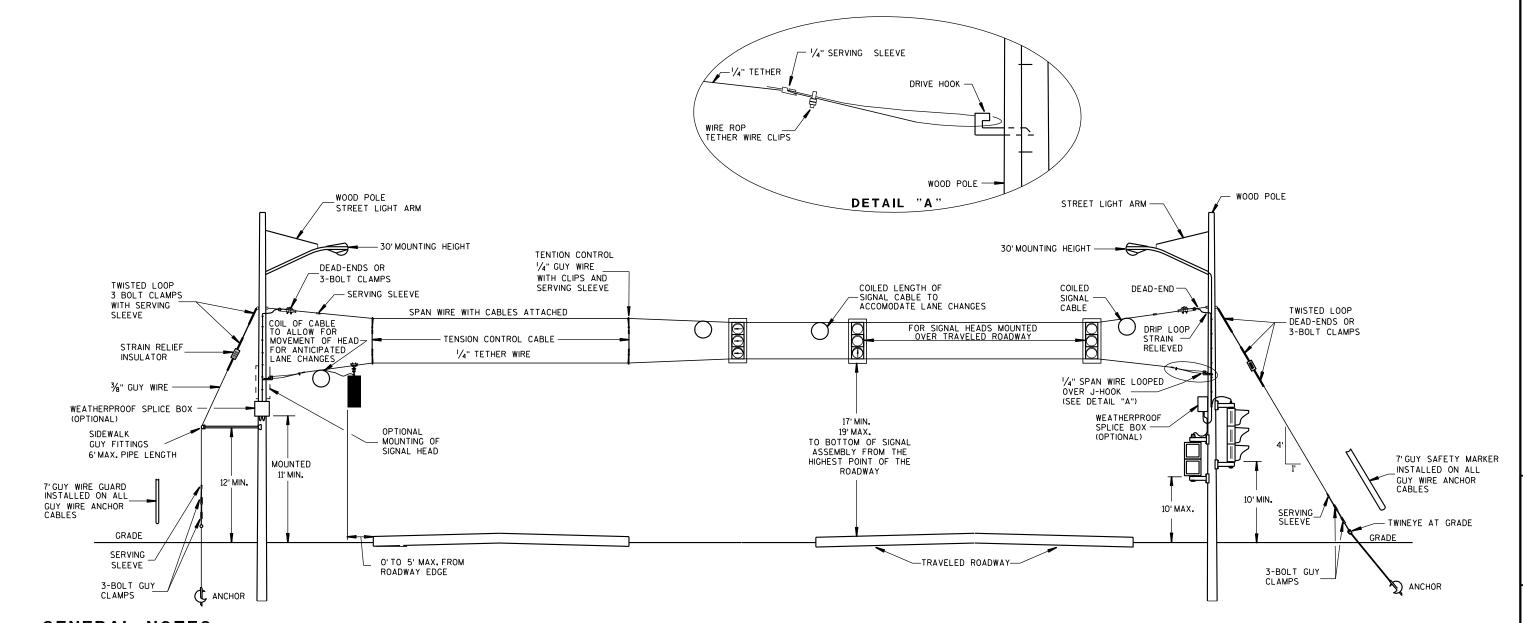
7-14-08 /S/ Balu Ananthanarayanan STATE ELECTRICAL ENGINEER FOR HWYS DATE

b 9 Ω

6

6 Ω

G



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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:

6

 \Box

ဖ

Ω

- A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
- B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
- C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
- D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
- E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
- 3. SPAN WIRE:
- A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
- B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
- C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE, MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE TEMPORARY SIGNALS

4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	¥	5'
30'	\mathbf{x}	6'
35'	TV.	7'
40'	IV.	8'
45'	IV.	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

6

3 b

G

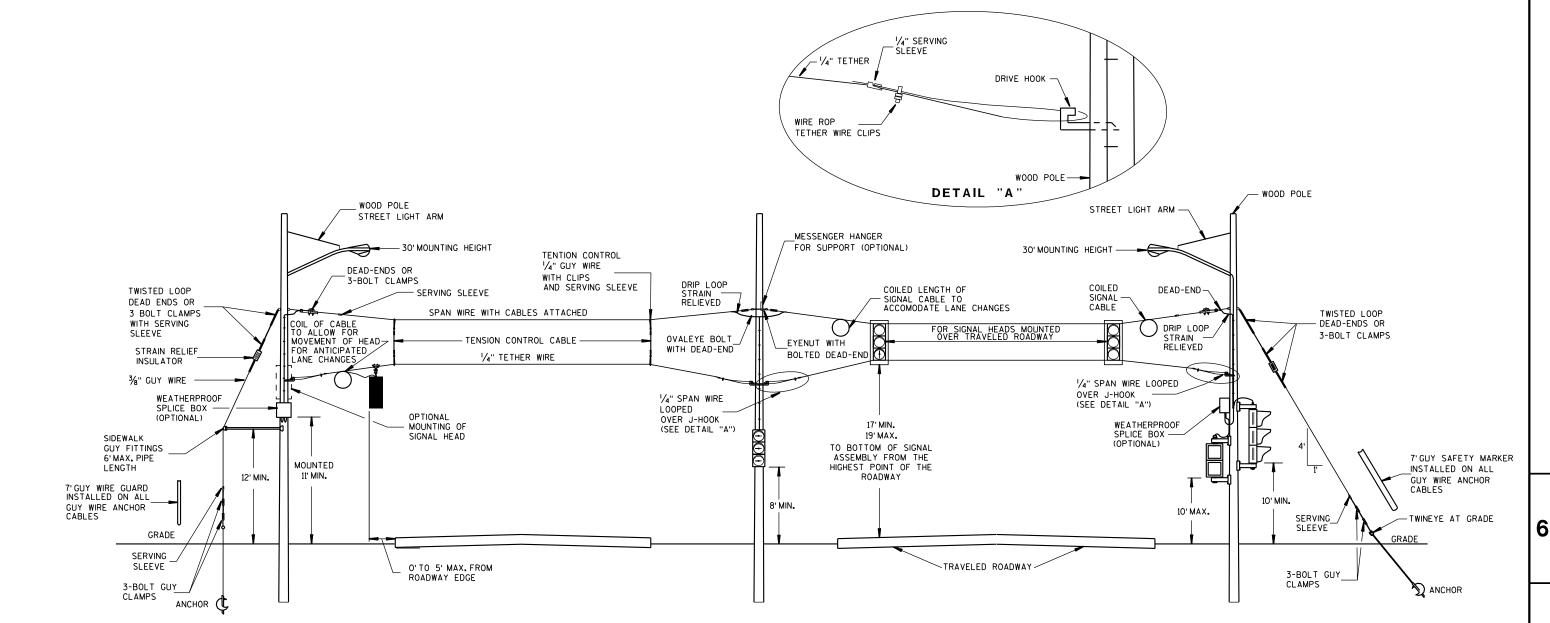
6

Ω

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE
STATE ELECTRICAL ENGINEER FOR HWYS



SPAN WIRE TEMPORARY SIGNALS

4 LANE ROADWAYS

GENERAL NOTES

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

- 1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
- A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
- B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
- C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
- D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY, IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
- E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:

- A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
- B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
- C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	¥	5'
30'	$\mathbf{\Sigma}$	6'
35'	$\mathbf{I}\!\mathbf{X}$	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

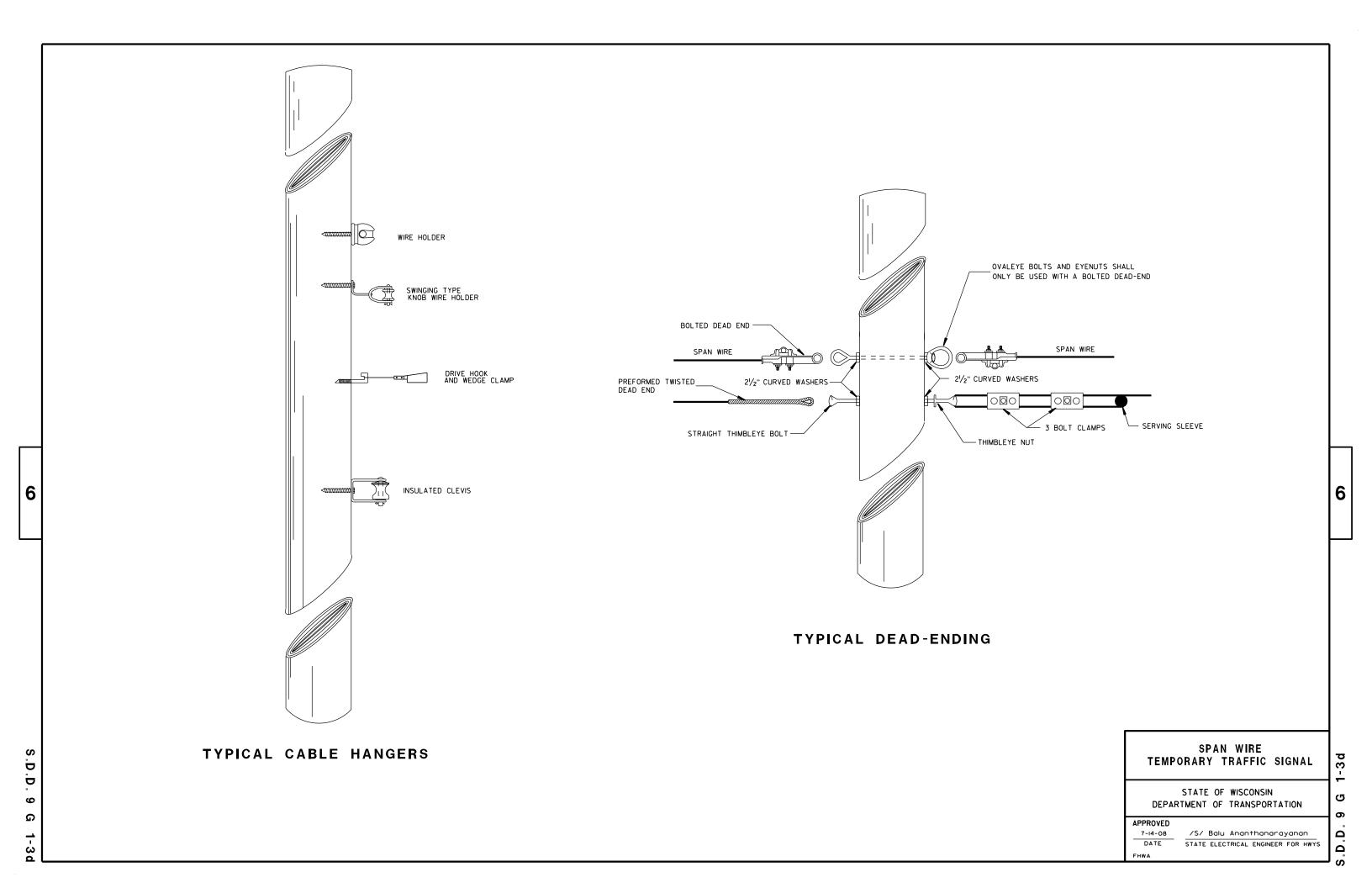
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION G

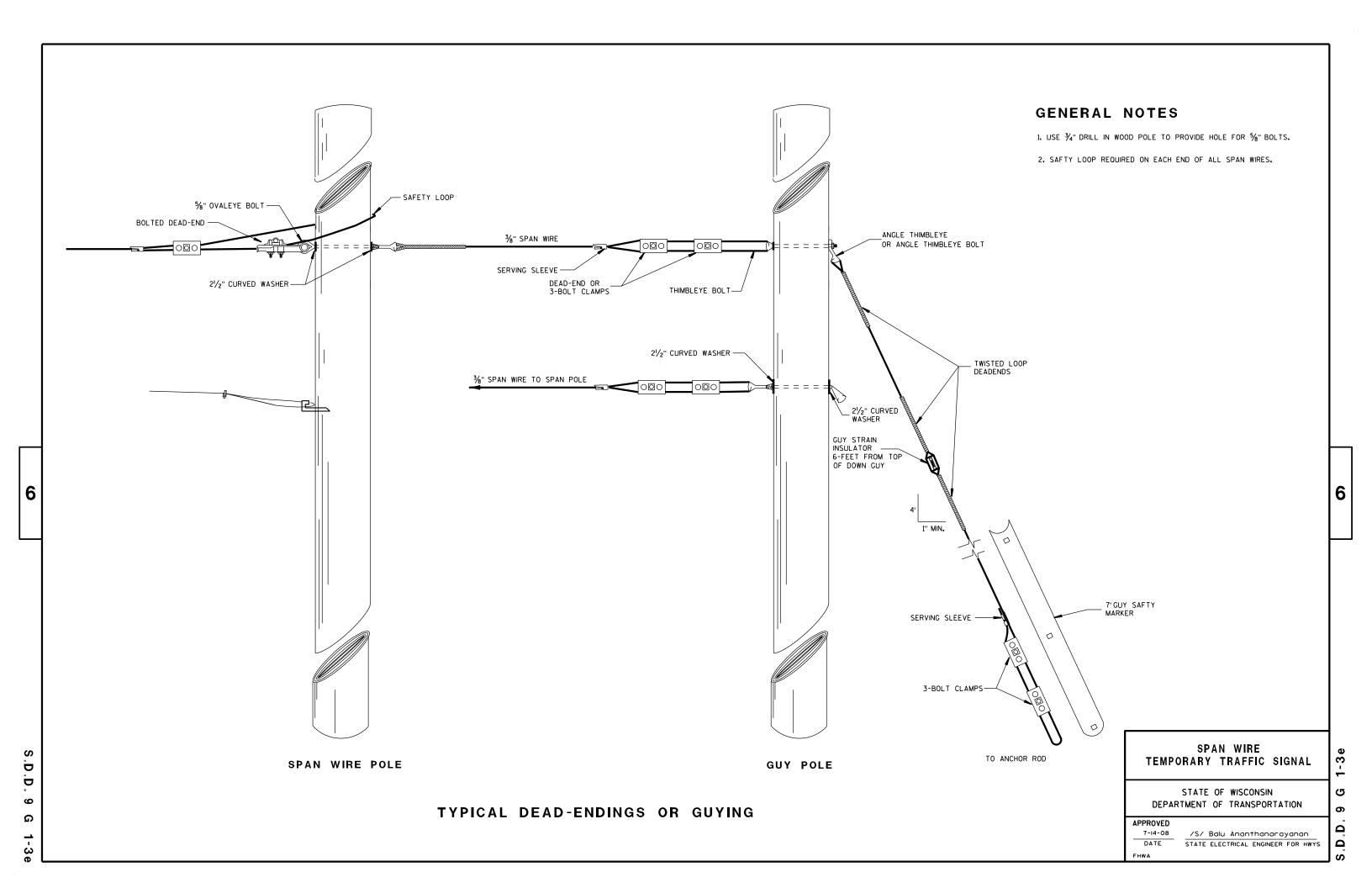
6 Ω

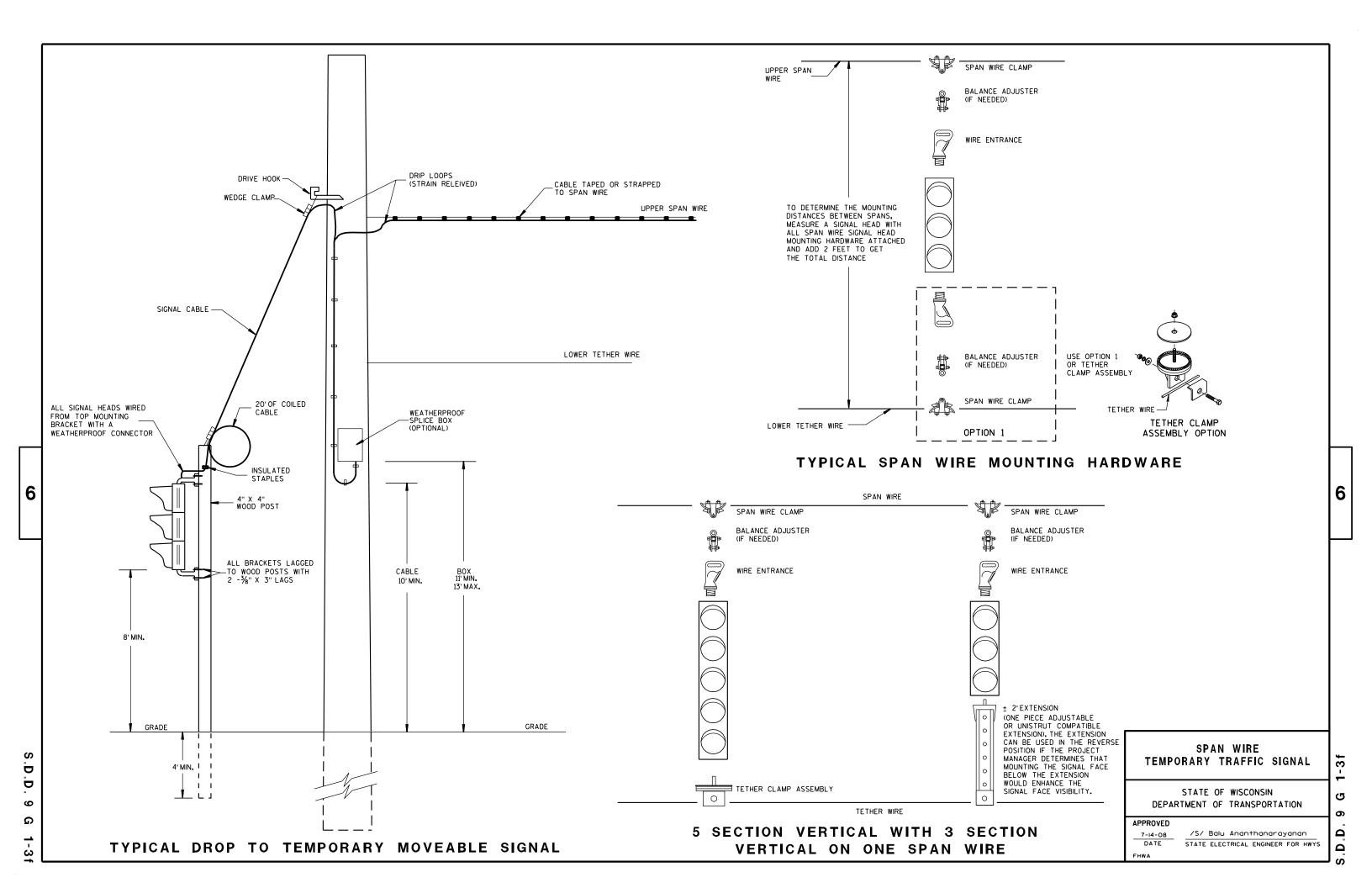
Δ

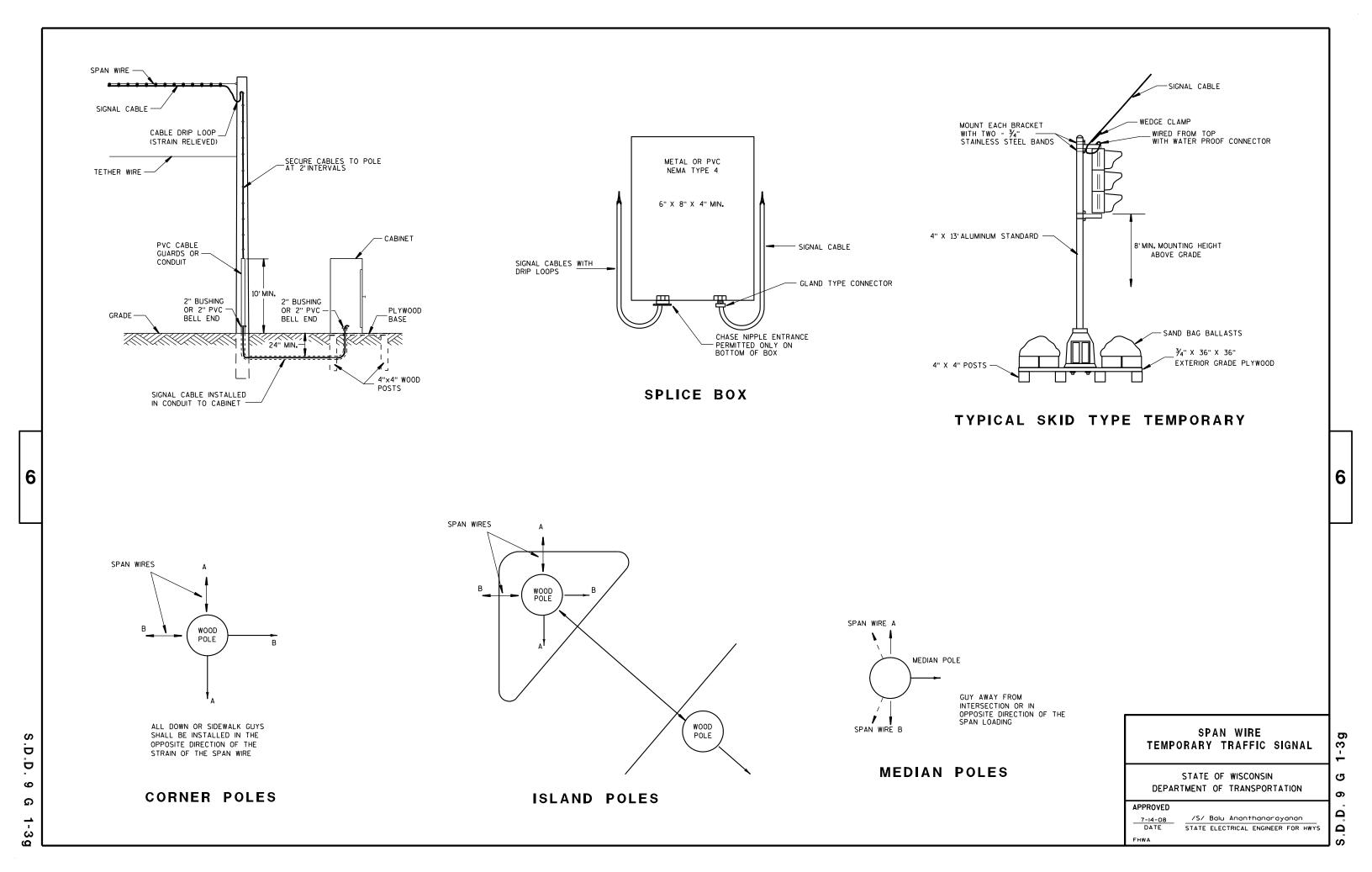
APPROVED	
7-14-08	/S/ Balu Ananthanarayanan
DATE	STATE ELECTRICAL ENGINEER FOR HWYS

Ō D









SEE DETAIL "A" PAVEMENT SURFACE

SAWED JOINT

GENERAL NOTES

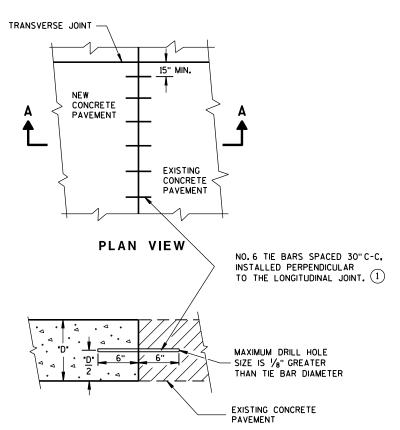
DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

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

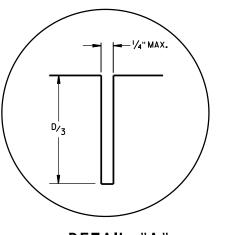
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

1 ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

CONSTRUCTION JOINT



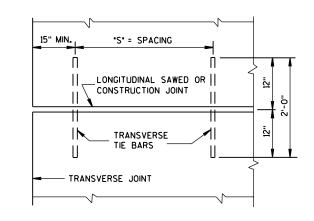
SECTION A-A LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"

TIE BAR TABLE

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



PLAN VIEW SHOWING LOCATION OF TIE BARS

CONCRET	E PAVEI	MENT	
LONGITUDINAL	JOINTS	AND	TIES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013 DATE /S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER FHWA

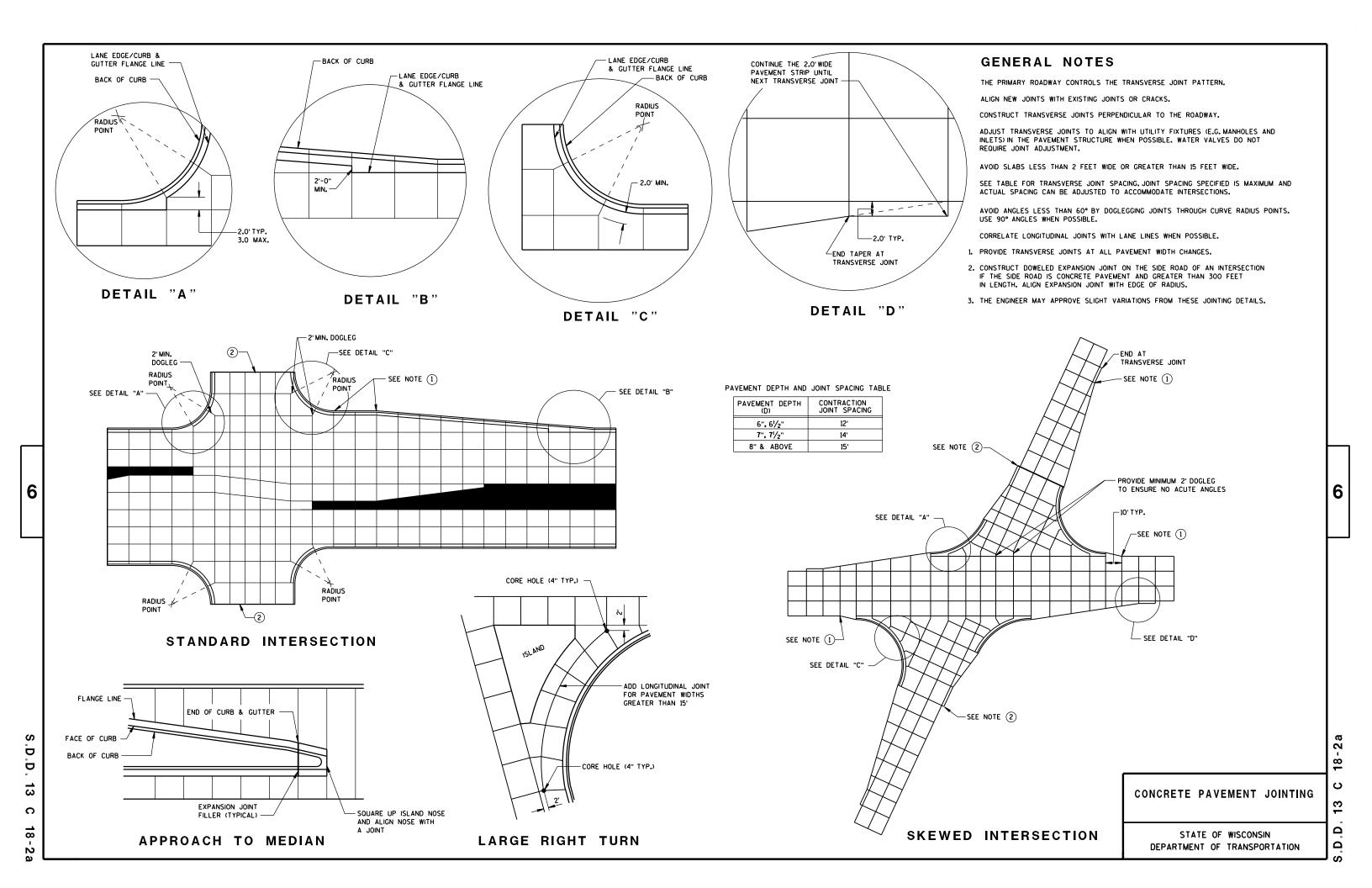
6

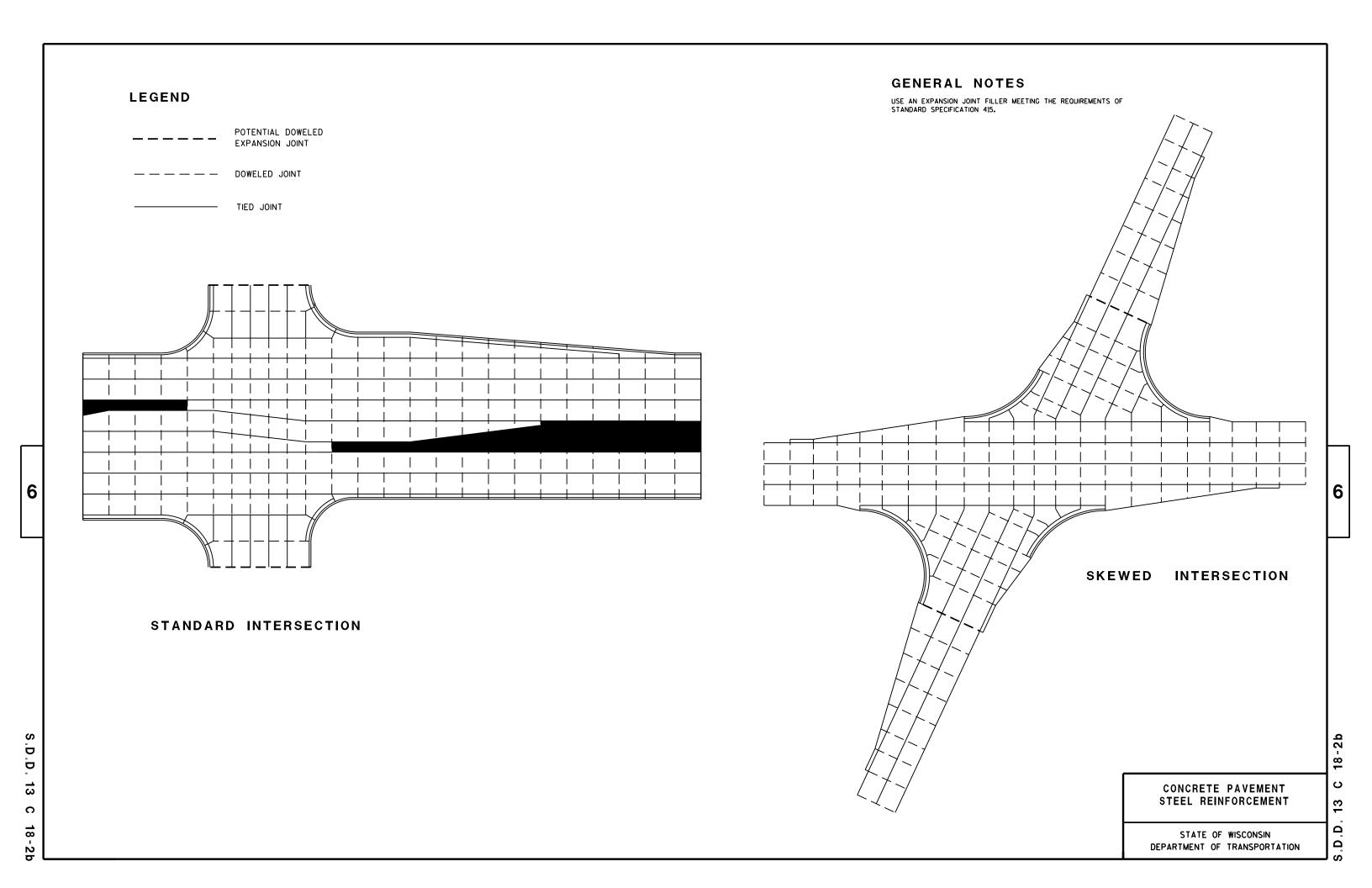
6

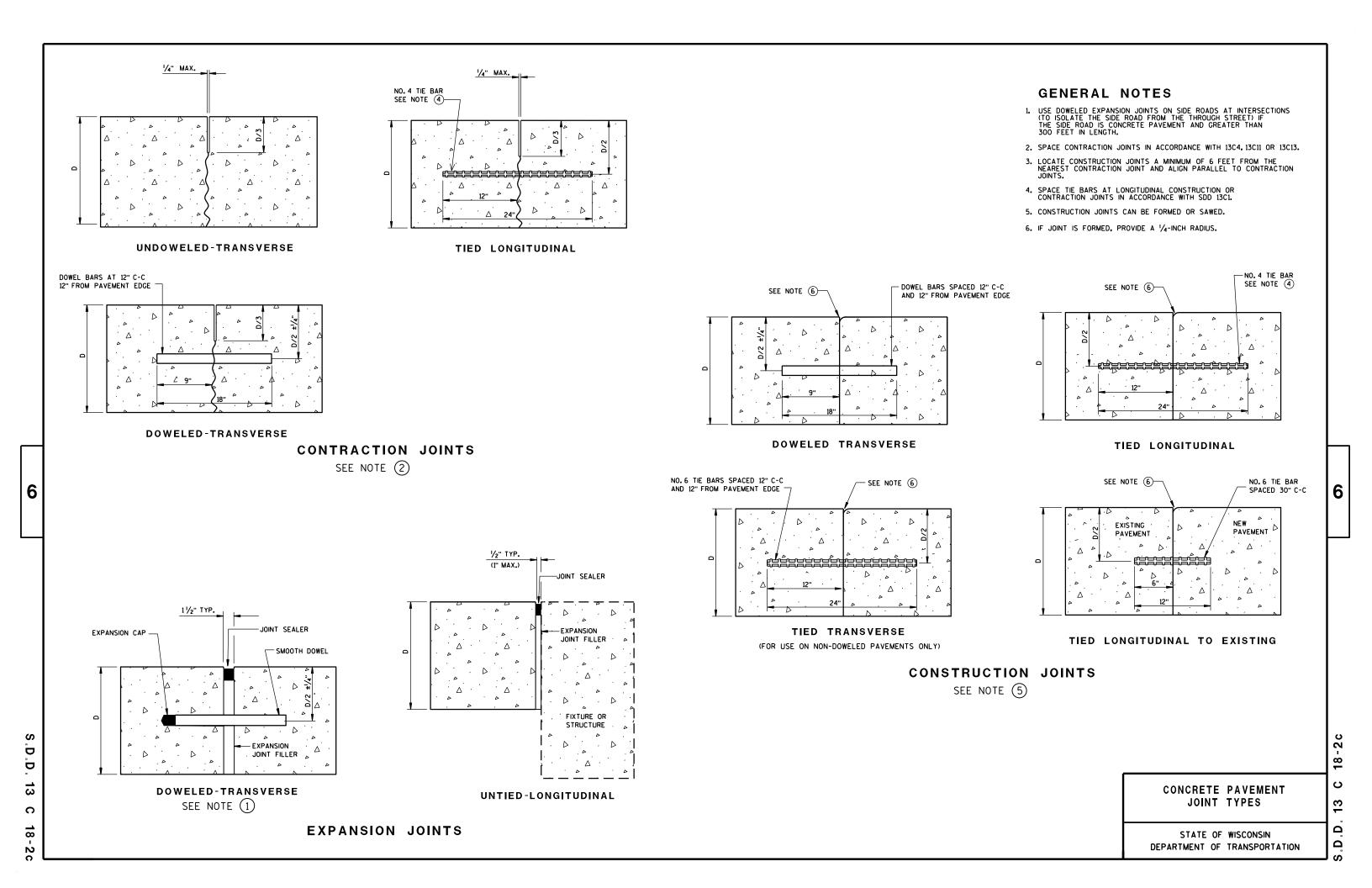
D D 13 C

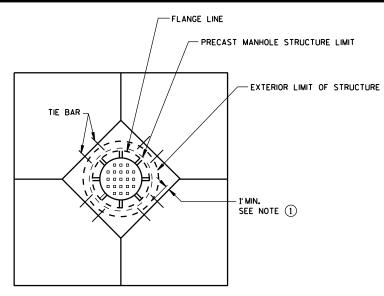
۵

ပ

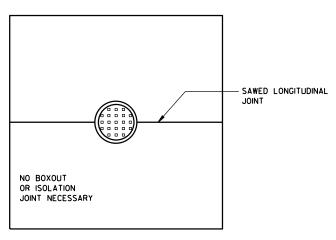




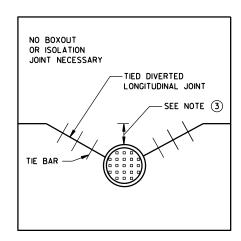




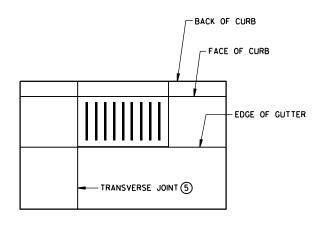
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



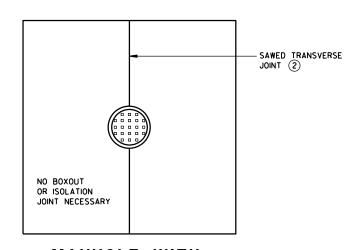
MANHOLE WITH LONGITUDINAL JOINT



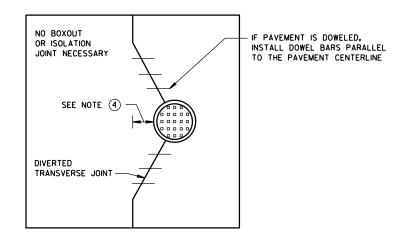
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

- ① USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT
JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

، [

6

<u>∞</u>

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

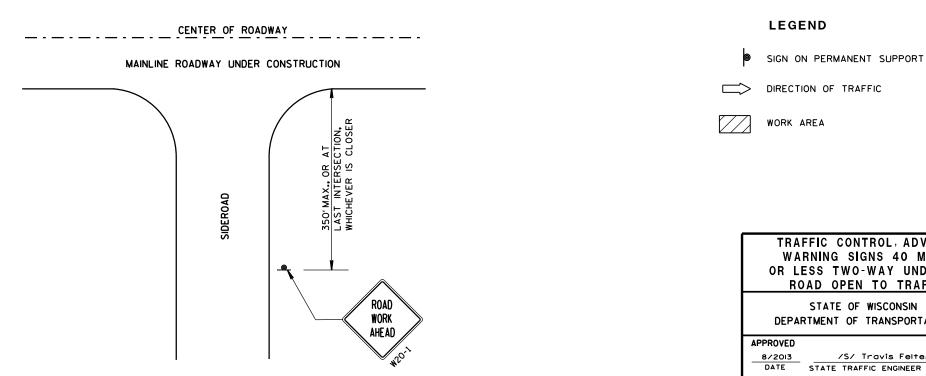
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48"

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

6

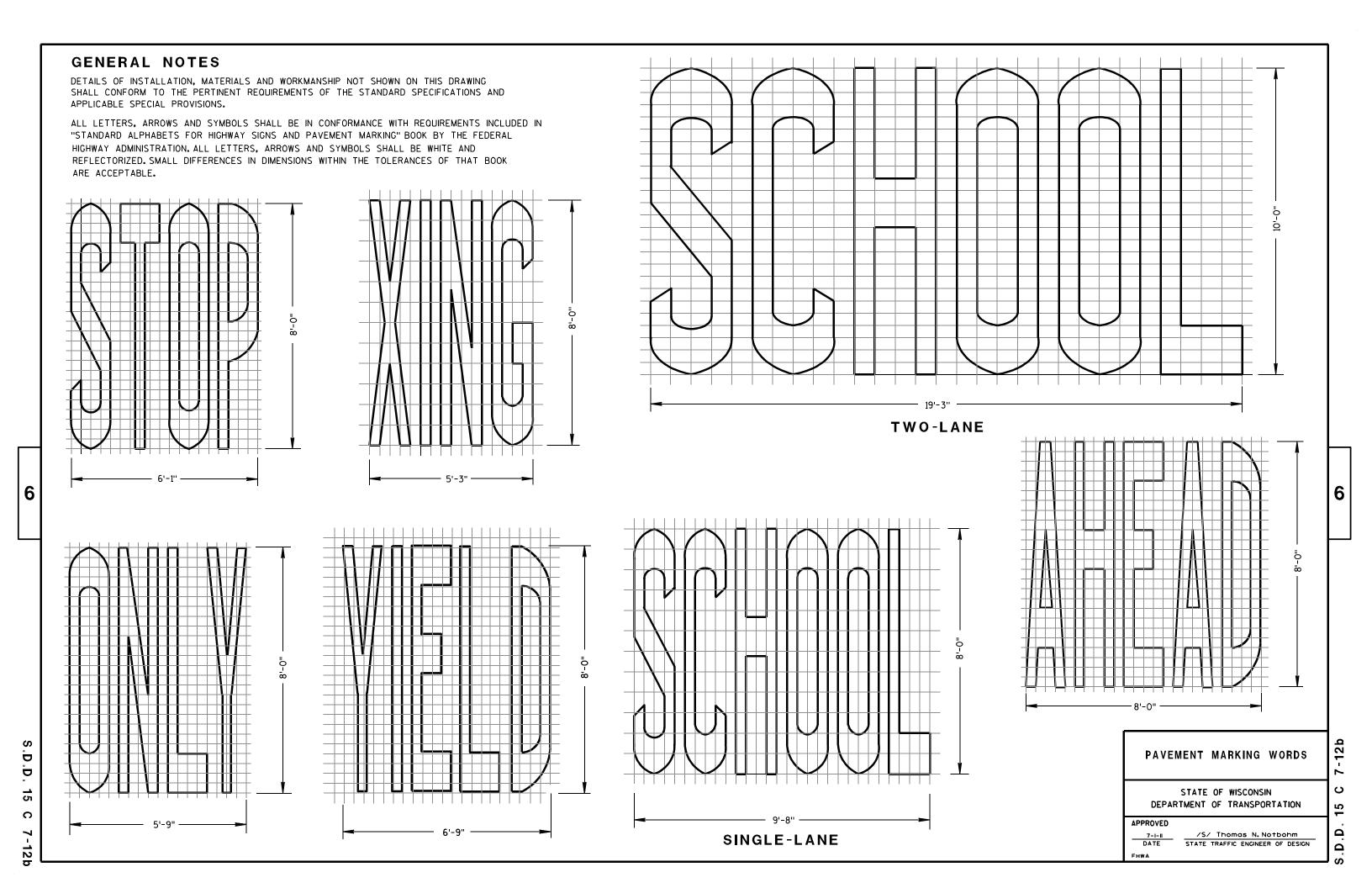
2

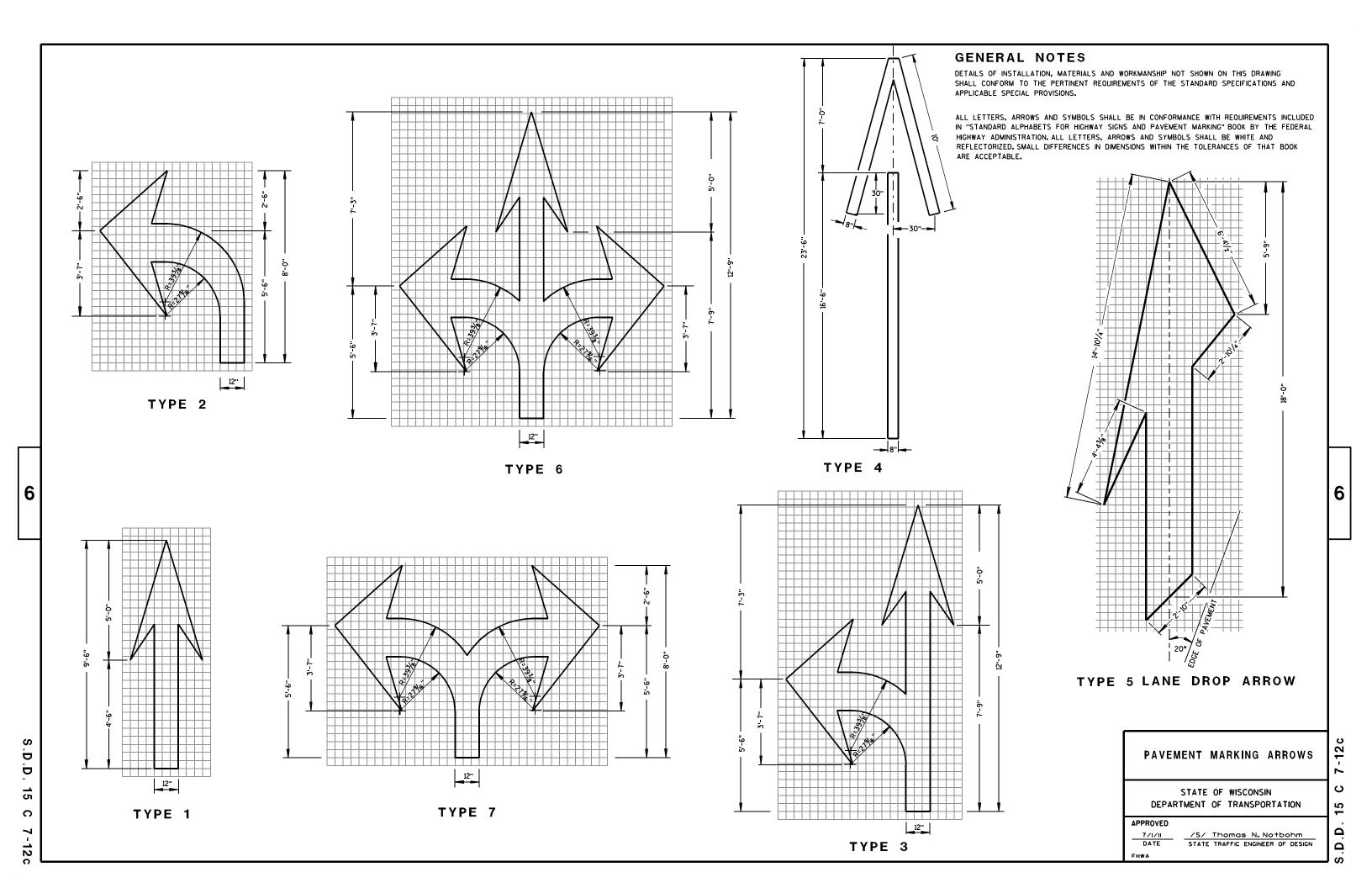
Ω

Ω

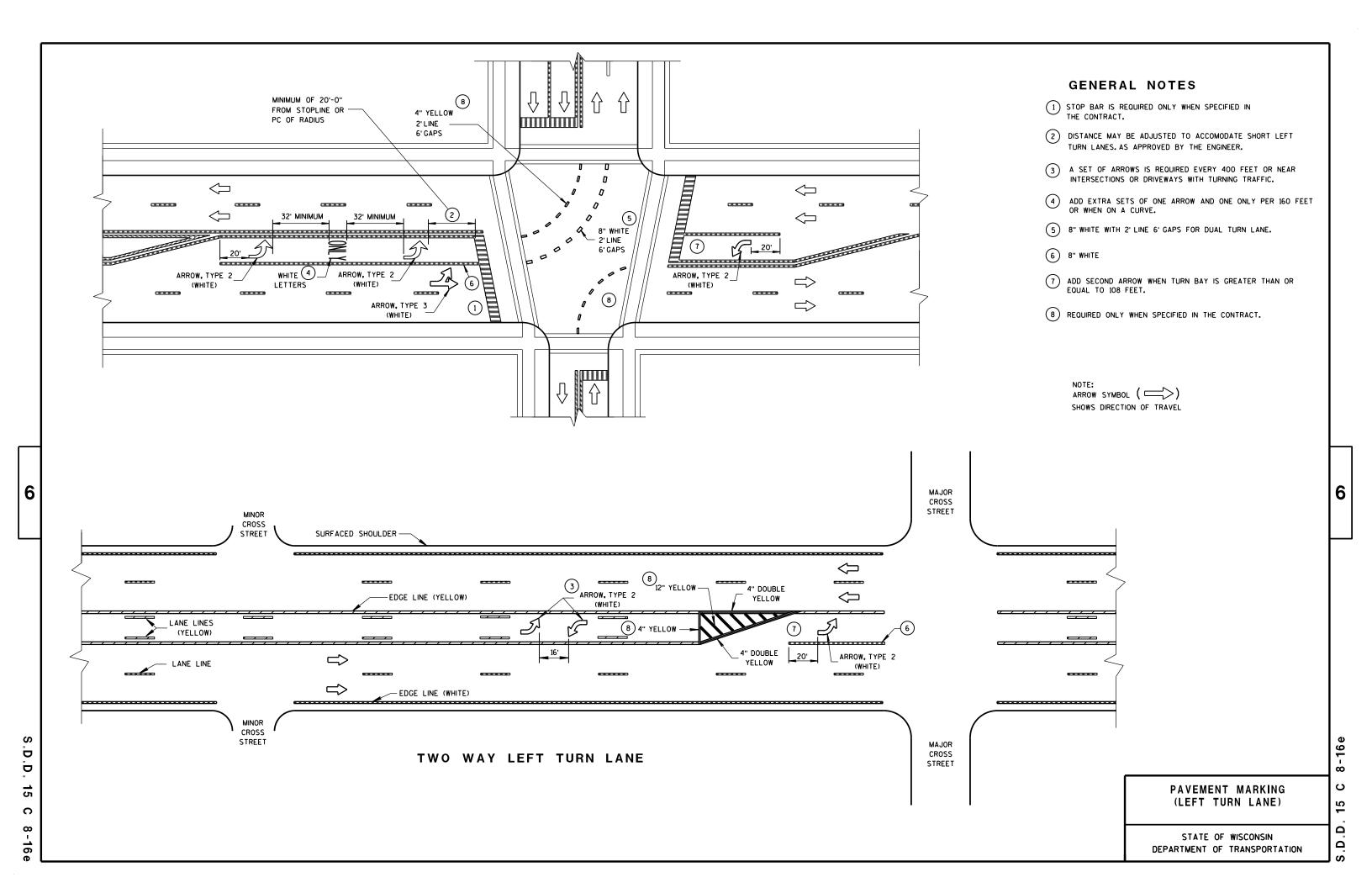
6

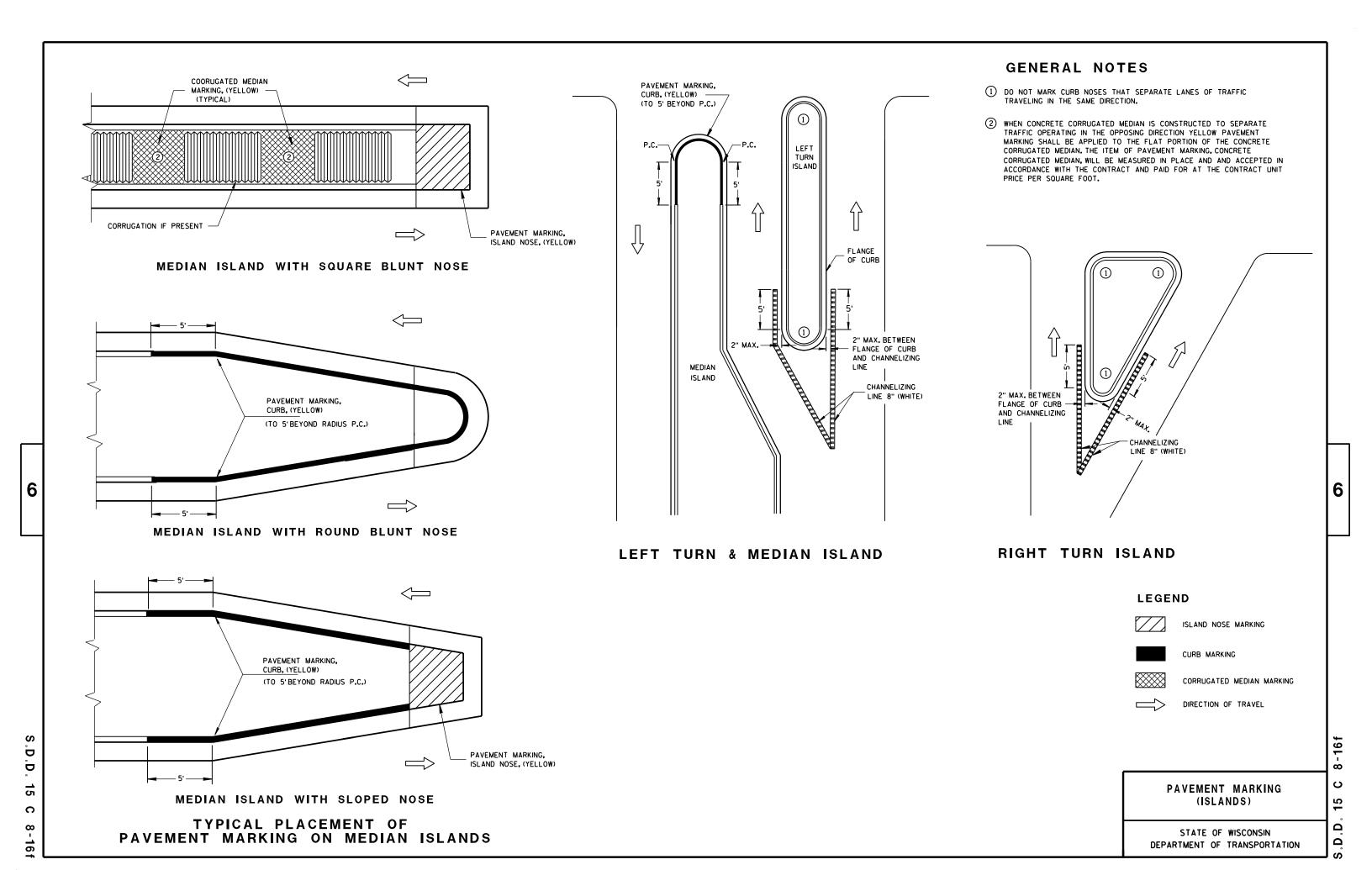
D Ö 15 C

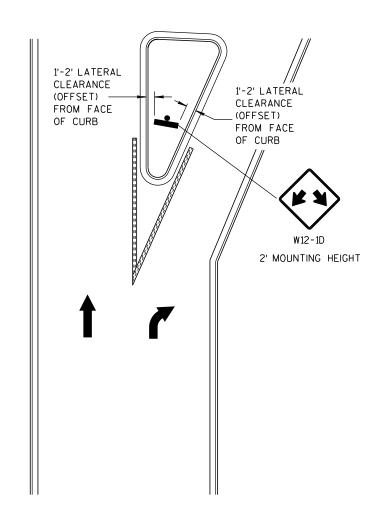




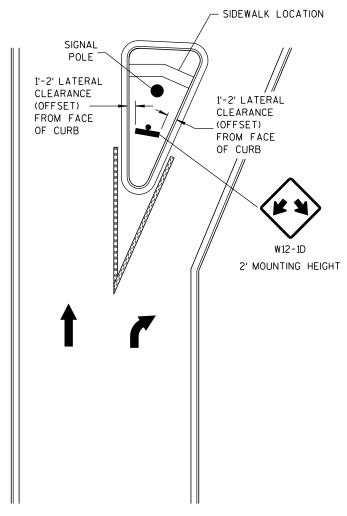




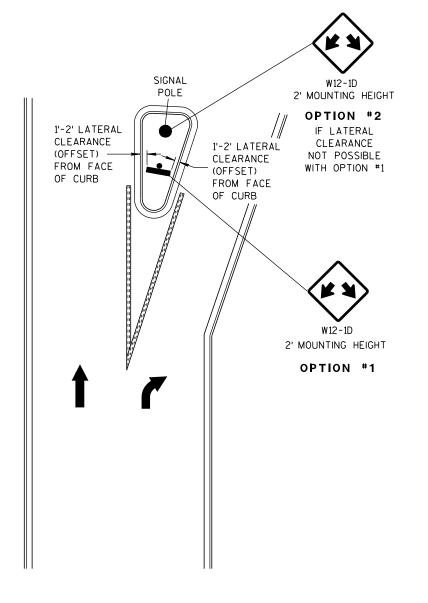




LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT

27

ပ

Ω

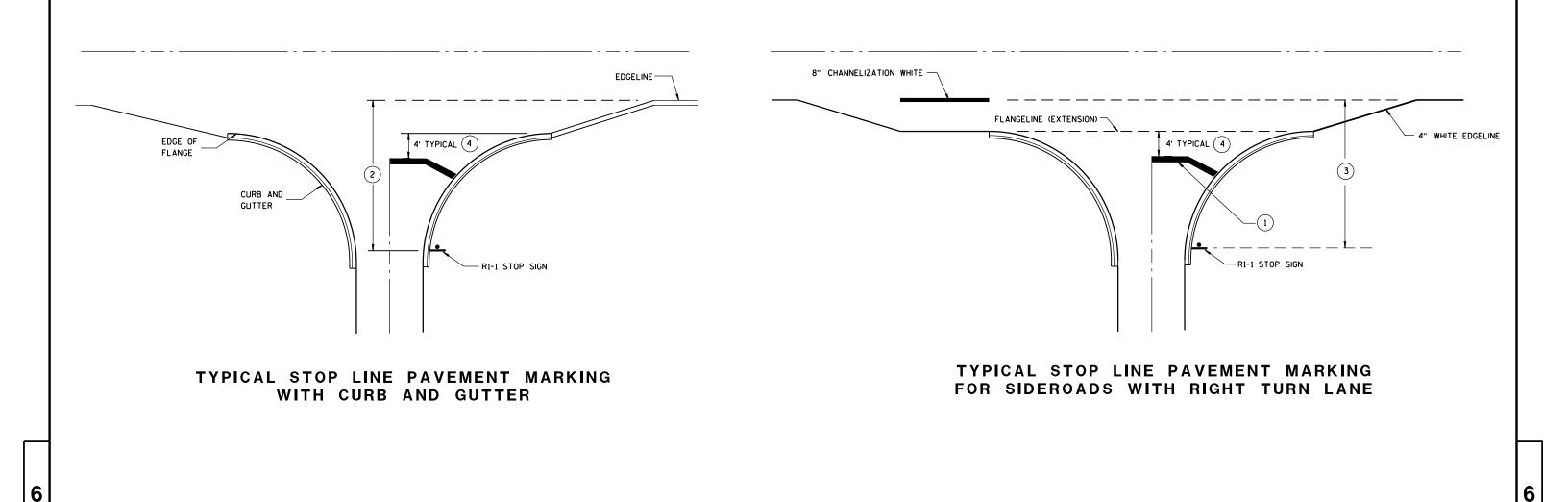
Ω

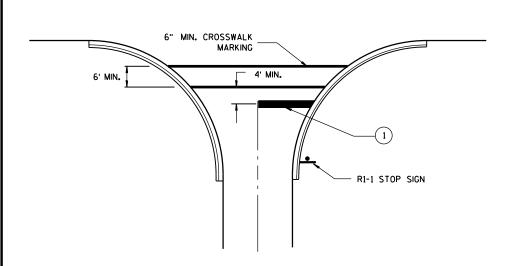
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

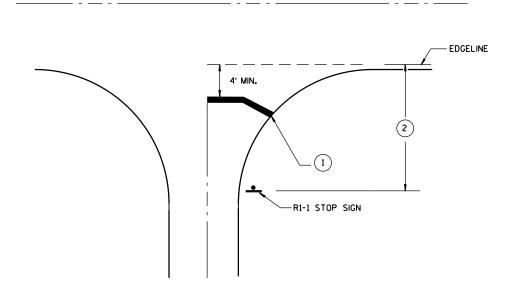
/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN 10-22-08

Ū b C





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.

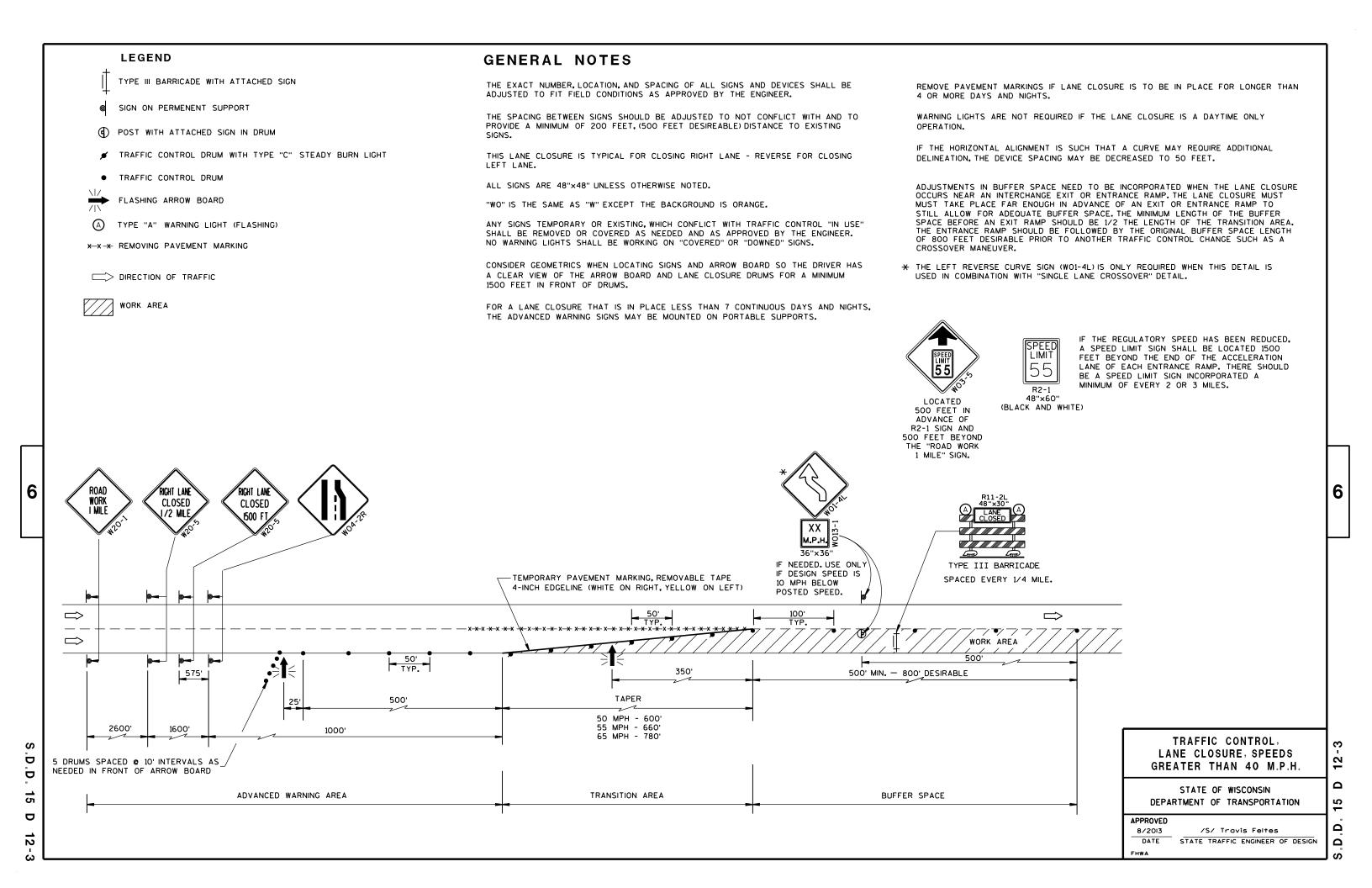
STOP LINE AND CROSSWALK PAVEMENT MARKING

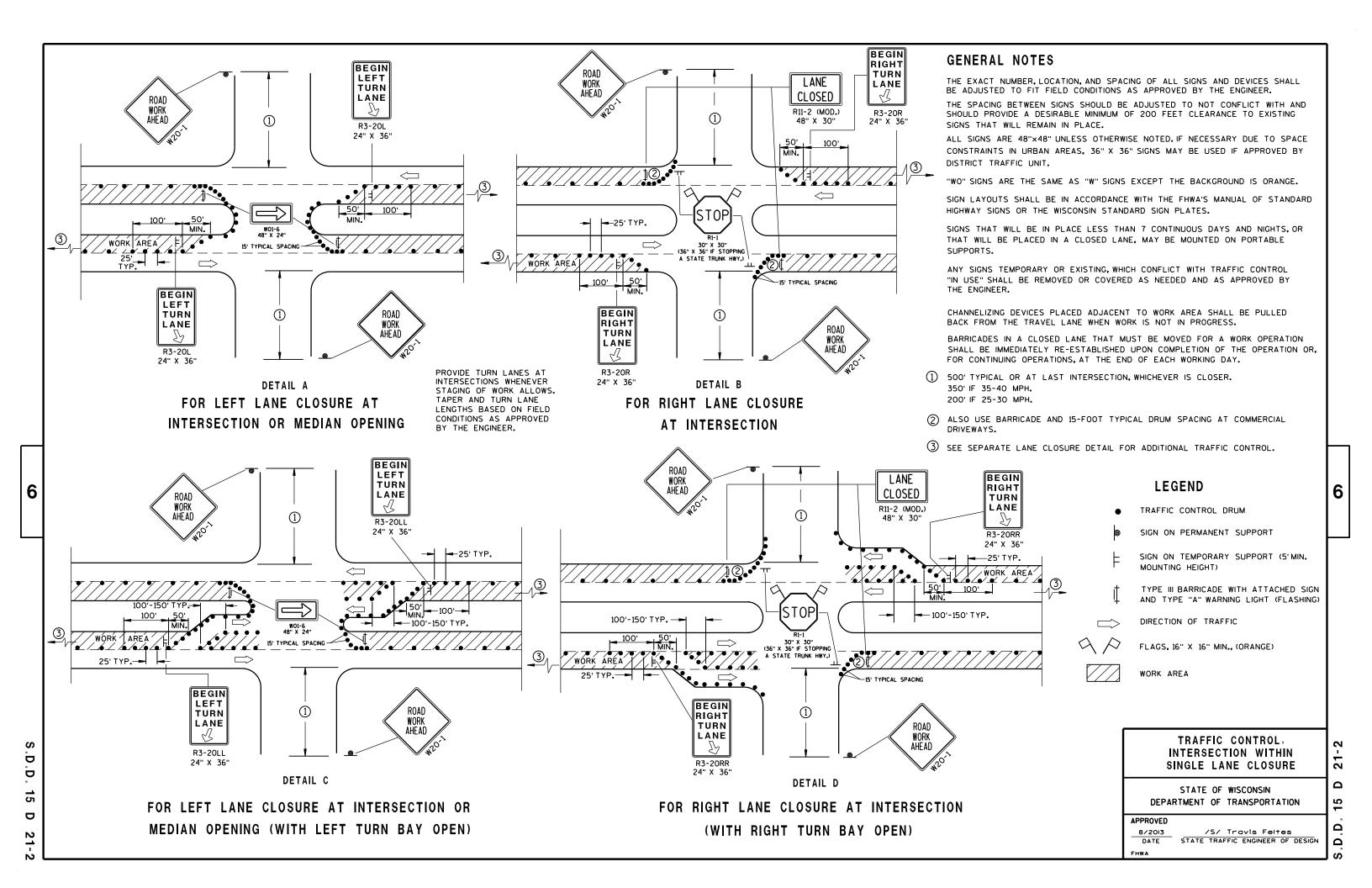
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

.D.D. 15 C 33-1

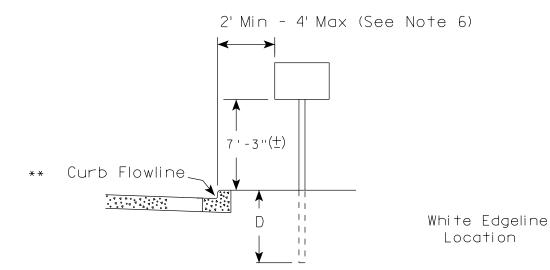
S.D.D.



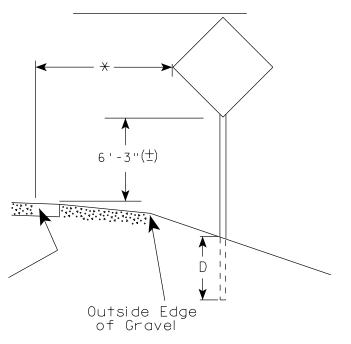




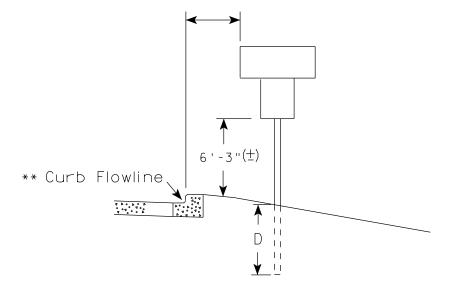
urban area



RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet, 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" (\pm) .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (\pm) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauh
For State Traffic Engineer

DATE 9/30/13

SHEET NO:

COUNTY:

JN I Y:

PLOT DATE: 30-SEP-2013 13:25

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:



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

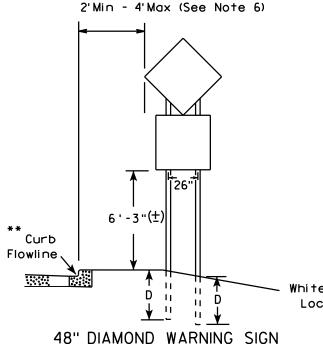
PLOT SCALE: 13.659812:1.000000

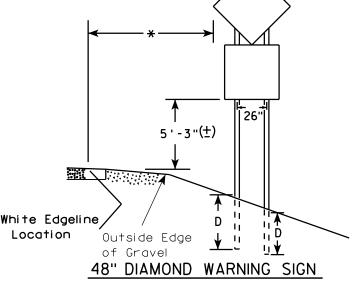
APPROVED

GENERAL NOTES

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

URBAN AREA RURAL AREA (See Note 3) 2' Min - 4' Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ****\ Flowline D 700 M White Edgeline D 11 White Edgeline, Location Outside Edae Location Outside Edge of Gravel





COUNTY:

of Gravel

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

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

HWY:

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

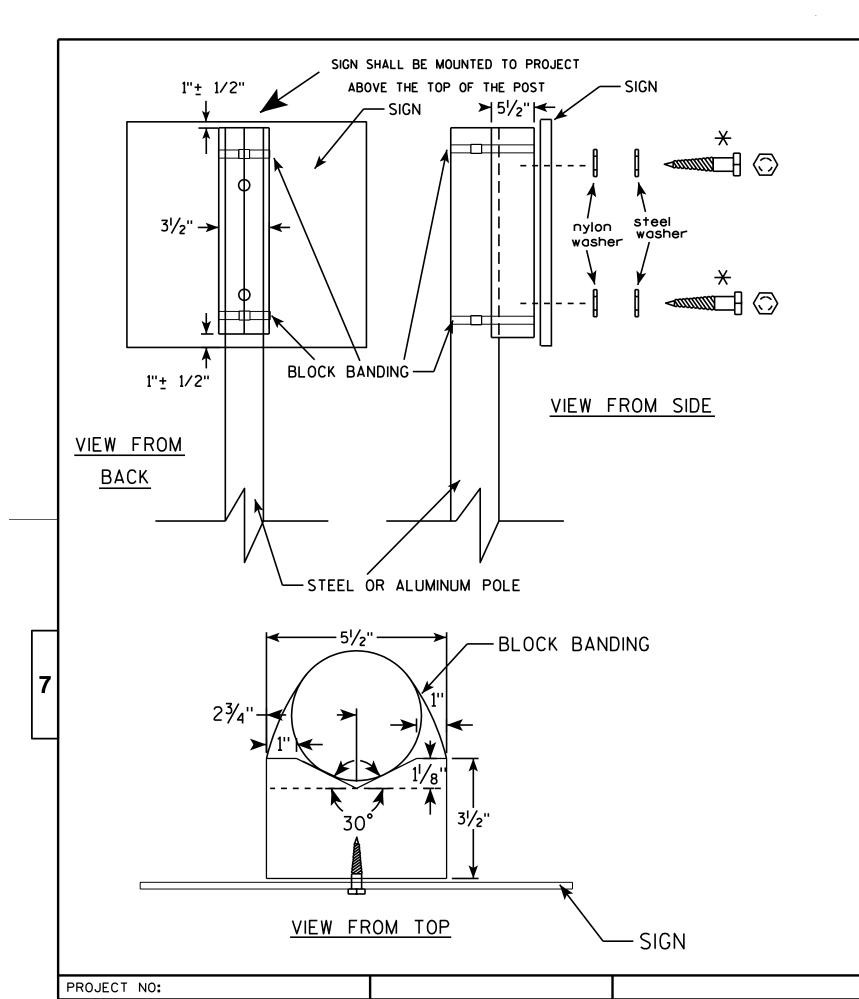
APPROVED Matther For State Traffic Engineer

PLATE NO. A4-4.12 DATE 9/30/13

SHEET NO: PLOT BY: mscj9h

PROJECT NO:





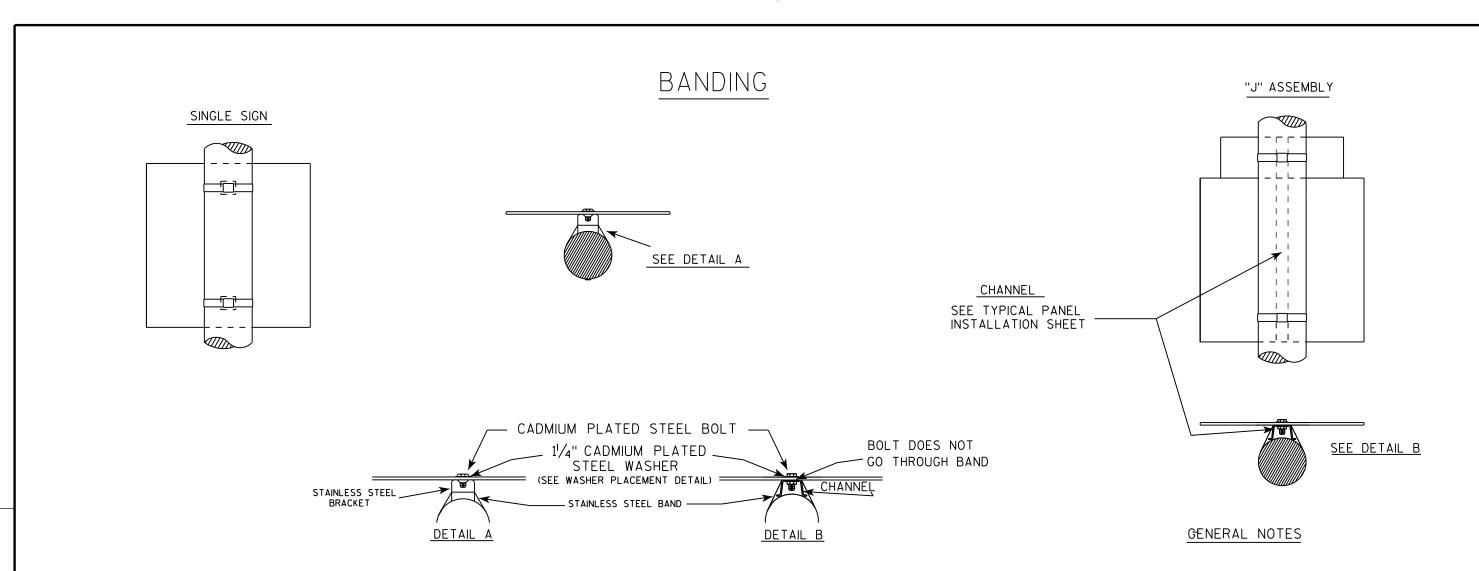
GENERAL NOTES

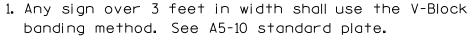
- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. 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, or
 - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
 - c. 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 11/4" O.D. X 3/8" I.D. X 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

X LAG BOLTS SHALL BE 3/8" X 21/2"

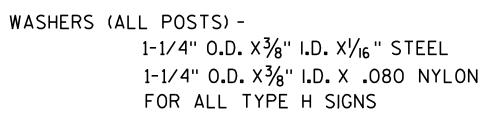
BLOCK BANDING DETAIL (V-BLOCK OPTION) WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 7/12/07 PLATE NO. <u>A5-10.1</u>

SHEET NO:





- 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.



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer DATE 8/16/13 PLATE NO. A5-9.3

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

WASHER PLACEMENT

HWY:

steel

washer

nylon

washer

PLOT DATE: 16-AUG-2013 13:27

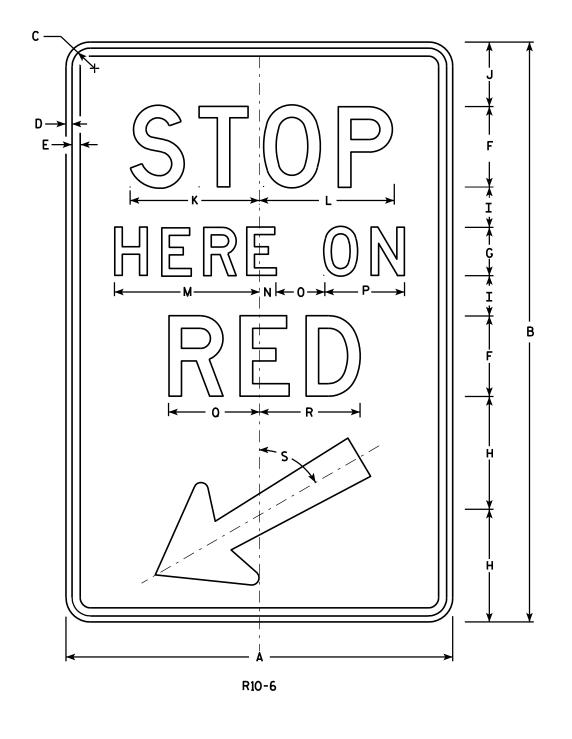
COUNTY:

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLOT BY: mscsja

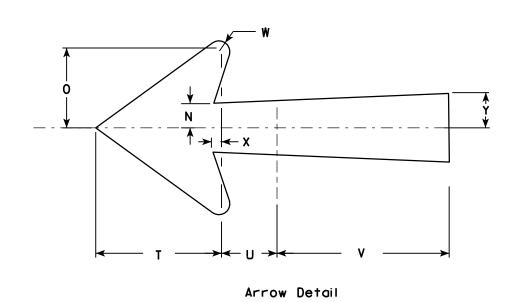
PLOT NAME :



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

Background - White Message - Black

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



SIZE	Α	В	С	D	Ε	F	G	Н	I	٦	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											
			The second second																					•			

COUNTY:

STANDARD SIGN R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

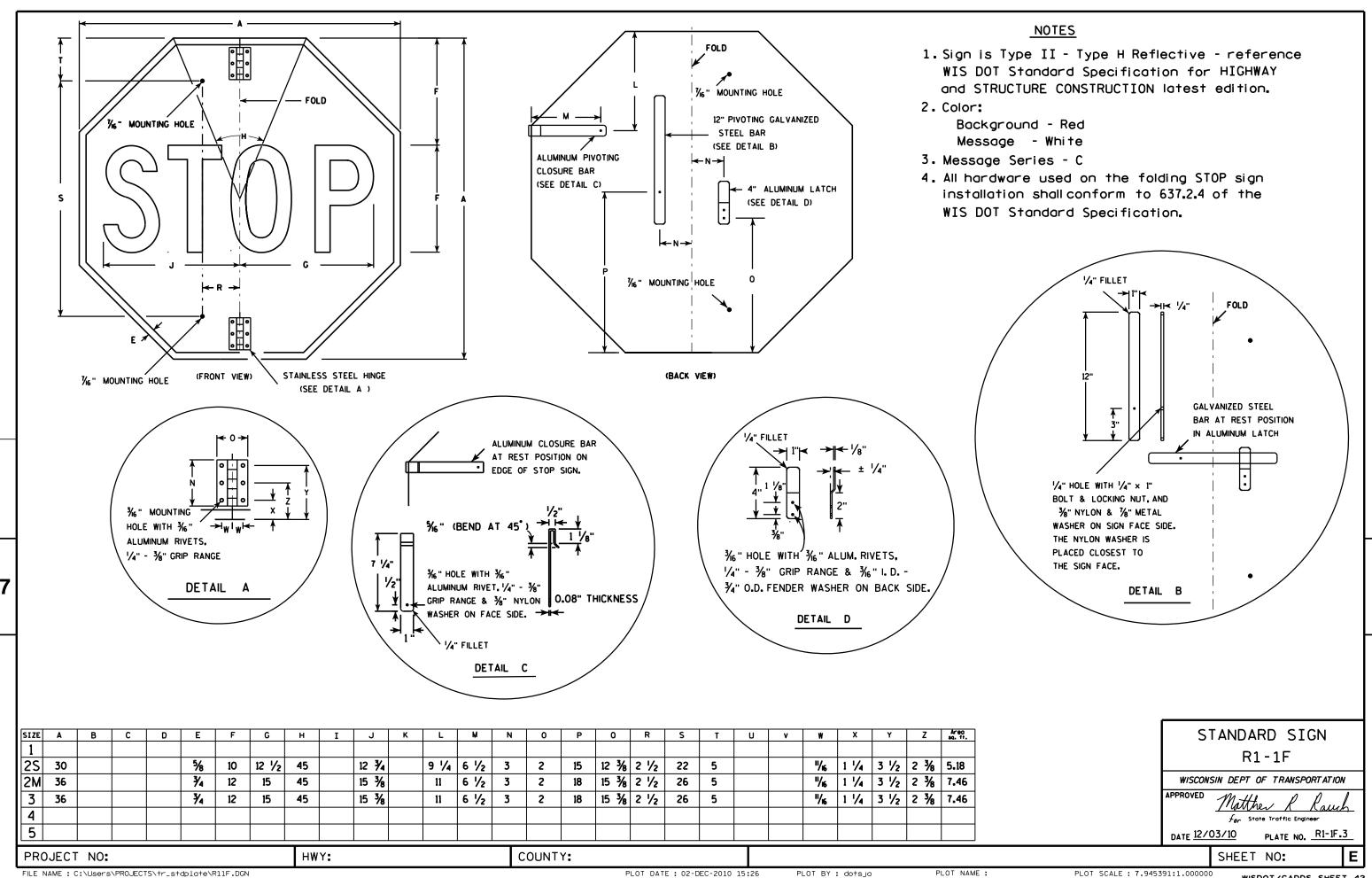
SHEET NO:

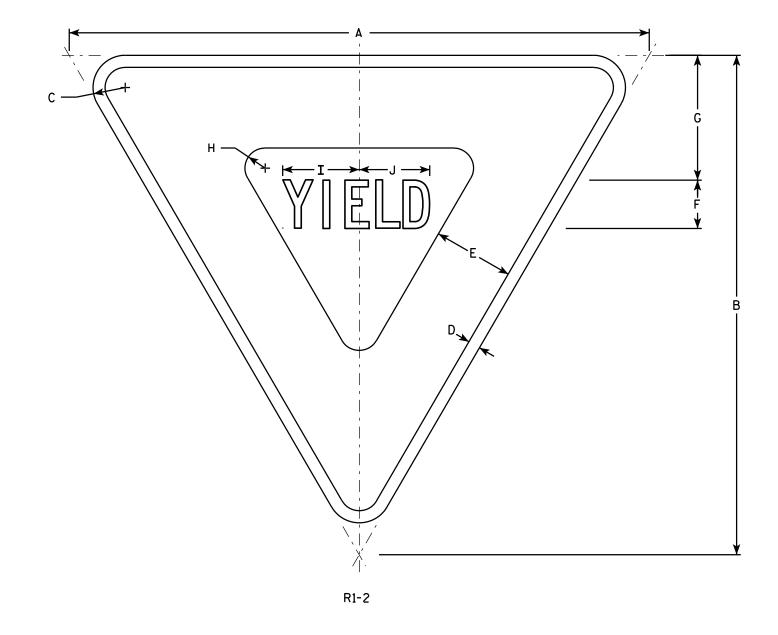
DATE 4/5/11

HWY:

PROJECT NO:

PLOT NAME :





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

Background - White Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. The border strip and word message are reflectorized red.

SIZE A 1 1/2 2 1/2 6 3/8 3 % 5⁄8 30 26 4 4 2.71 7 3/4 1 1/4 4 3/4 4 3/8 36 31 ₹4 3.88 9 3/4 48 42 6 1/4 5 1/8 7.00 2 3 9 3/4 7.00 48 42 3 6 2 6 1/4 5 1/8 9 3/4 4 48 42 3 2 6 1/4 5 1/8 7.00 5 60 52 3 1 1/2 8 13 2 1/2 7 7/8 7 1/4 10.83 6 4 3/4 24 1 1/2 % 3 1/4 3 1.75 21 3 % 2 1/2 1 1/2 5∕8 2 3/8 2 1/4 18 15 1/2 0.97

COUNTY:

STANDARD SIGN R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe

 $f_{\it or}$ State Traffic Engineer

DATE 11/02/10

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R12.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-NOV-2010 10:38

PLOT BY: dotsja

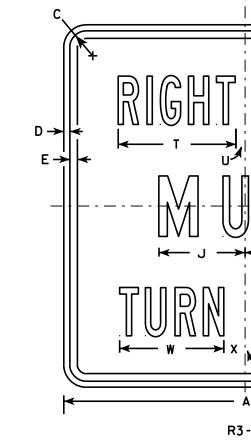
PLOT NAME :

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 - Black

- 3. Message Series Line 1 is Series B. Line 2 is Series C. Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-7R

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	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 1/8	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
3	36		1 %	5/8	3/4	6	9 %	2	1 1/8	8 3/4	9	13 1/2	3 %	1 1/2	12 1/2	5	5	3	10 %	12	%	2 1/4	10 %	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 ½	2 3/8	1 1/2	11 1/2	11 1/8	17 3/4	3 %	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 1/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

COUNTY:

STANDARD SIGN R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Y YUMMEN K KAU For State Traffic Engineer

PLATE NO. R3-7.3 DATE 3/18/2011

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr_stdplate\R37.DGN

R3-7L

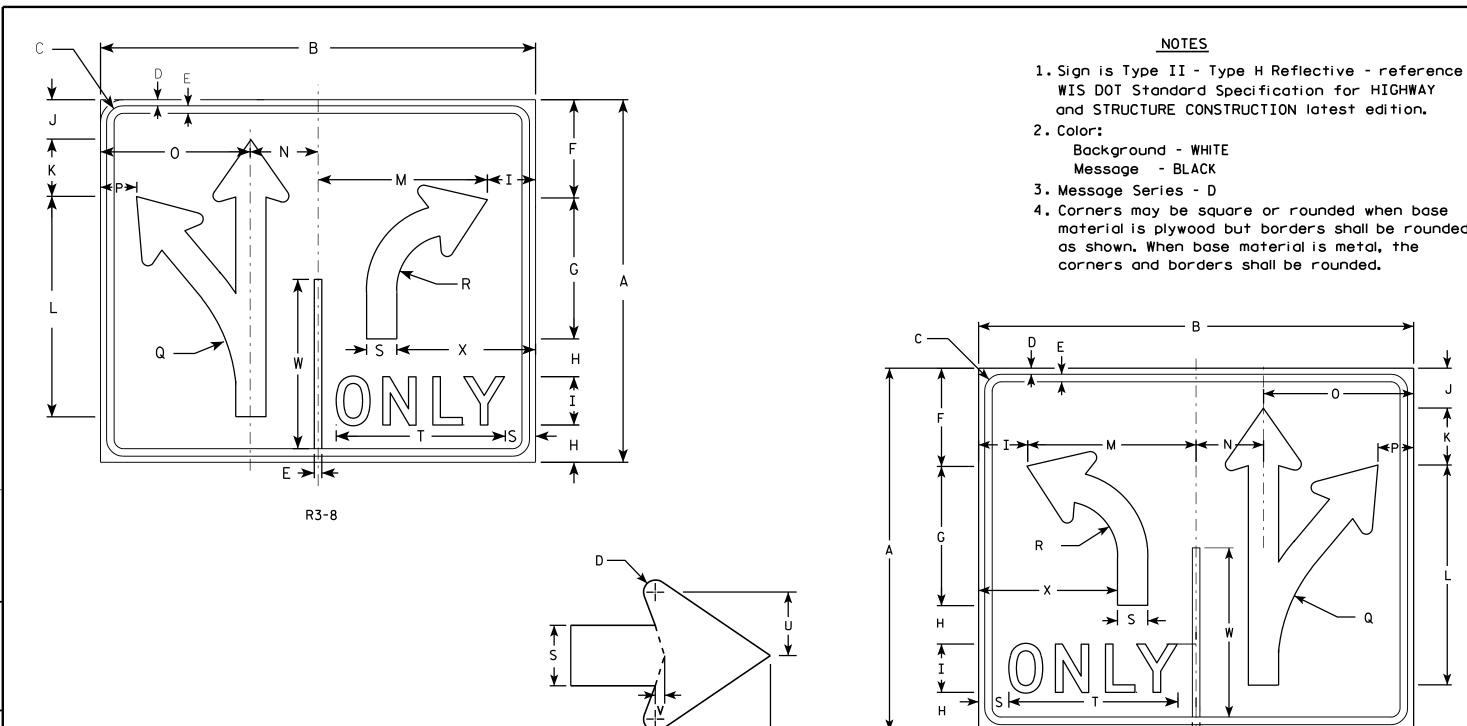
HWY:

PLOT DATE: 18-MAR-2011 09:43

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 7.945391:1.000000



and STRUCTURE CONSTRUCTION latest edition. 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.

E ≯ | | ←

R3-8A

Area sq. ft.

7.5

7.5

18.0

18.0

STANDARD SIGN R3-8 & R3-8A WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R38.DGN

1/2

1/2

3/4

5₈ | 8 1/₈ | 11 5/₈ | 3 1/₈ |

5/8 | 8 1/8 | 11 5/8 | 3 1/8 |

13 1/4 18 1/2 5 1/8 6

13 1/4 18 1/2 5 1/8 6

HWY:

3 1/4 4 3/4 18 1/4

3 1/4 4 3/4 18 1/4

4

36 | 1 ³/₈

36 1 ³/₈

54 2 1/4

54 2 1/4

2S

2M

3

4

5

30

30

48

48

PROJECT NO:

PLOT DATE: 18-MAR-2011 10:28

13 1/4 4 1/2 2 1/2

13 1/4 4 1/2 2 1/2

14 2 3/8

14 2 5/8

PLOT BY: mscsja

3/8

3/8

ARROW DETAIL

3

5 1/4 | 7 1/8 | 29 1/8 | 21 | 8 3/8 | 18 5/8 | 4 3/8 | 21 1/8 | 7 1/4 | 3 3/4 | 20 5/8 | 4

5 1/4 7 1/8 29 1/8 21 8 3/8 18 5/8 4 3/8 21 7/4 3 3/4 20 5/8

5 % 12 %

5 % 12 %

14

14

COUNTY:

PLOT NAME :

11 1/2

11 1/2

14

14

5/8 | 22 3/8 | 17 1/4 |

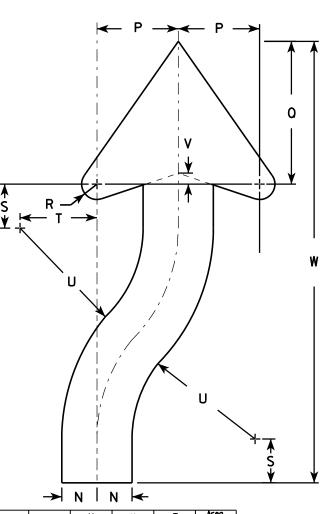
5/8 22 3/8 17 1/4

PLOT SCALE: 7.945391:1.000000

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

Background - White Message - Black

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



PLOT NAME :

ARROW DETAIL

																							\rightarrow	N I	N 		
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areo sq. ft
1	18	24	1 1/8	3∕8	1/2	3 %	4 3/4	5 ½	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 %	3 1/4	6 3/4	1/2	20 ¾				3.0
2S	24	30	1 1/8	3∕8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2	30	4 %	8 1/8	1 /8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 %	8 1/8	7∕8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 ¾				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 ½	1	40 ¾				12.0
5	48	60	2 1/4	₹4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 %	5	8 3/4	18	1 1/4	50 1/4				20.0

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

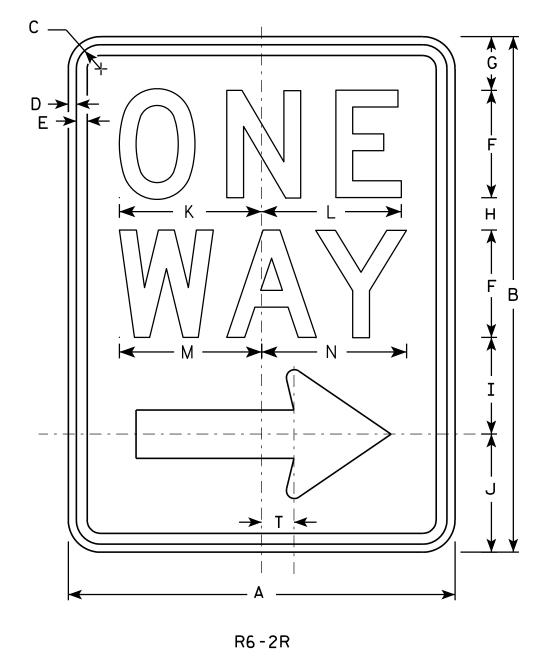
DATE 3/25/2011 PLATE NO. R4-7.8

SHEET NO:

PROJECT NO:

D→

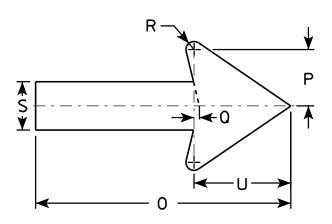
HWY:



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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R6-2L same as R6-2R except arrow points to the left.



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

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8

SHEET NO:

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

HWY:

PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT NAME :

PLOT BY: ditjph

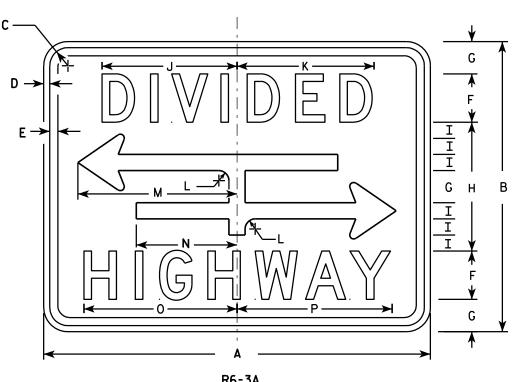
PLOT SCALE: 4.469282:1.000000

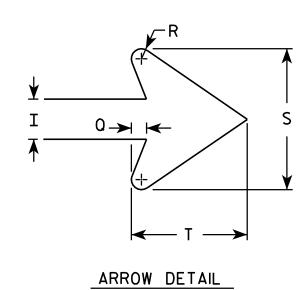
<u>NOTES</u>

- 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.





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	24	18	11/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 %	6 1/4	9 1/2	9 %	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	11/8	3/8	1/2	4	2 %	10 ¾	1 3/8	10 1/2	10 %	7 /8	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
2M	30	24	11/8	3/8	1/2	4	2 %	10 ¾	1 3/8	10 1/2	10 %	7 ⁄8	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
3																											
4																											
5																											
					•										•												

STANDARD SIGN R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE 3/31/2011

PLATE NO. R6-3.5 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R63.DGN

PROJECT NO:

R6-3

PLOT DATE: 31-MAR-2011 09:08

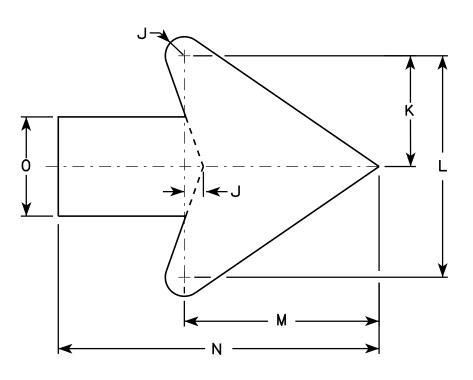
PLOT BY: mscsja

5.959043:1.000000

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

Background - Yellow Message - Black

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



Arrow Detail

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

COUNTY:

W12-1D

STANDARD SIGN W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Fer State Traffic Engineer

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

SHEET NO:

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

HWY:

PROJECT NO:

PLOT DATE: 13-MAR-2013 13:26

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 4.713802:1.000000



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov