WKE

PROJECT WITH: ID: 1090-34-70

## COUNTY:

# WAUKESHA

#### MAY 2015

#### ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Detai
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities

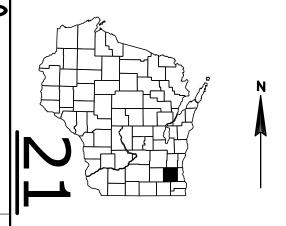
Section No. 4 Right of Way Plat Section No. 5 Plan and Profile

Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates

Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 32



#### DESIGN DESIGNATION 1-43

A.A.D.T.	2012	=	56,580
A.A.D.T.		=	
D.H.V.		=	
D.D.		=	
T.		=	
DESIGN S	PEED	=	
FSALS		_	

#### CONVENTIONAL SYMBOLS

CORPORATE LIMITS	///
	7//
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	$\sqcup$
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	- ~
REFERENCE LINE	•
EXISTING CULVERT	4
PROPOSED CULVERT	
(Box or Pipe)	١.

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

	PROFILE
/////	GRADE LINE
	ORIGINAL GROUND
	MARSH OR ROCK PROFILE
	(To be noted as suc
	SPECIAL DITCH
	GRADE ELEVATION
_	
	CULVERT (Profile View)
<u></u>	UTILITIES

GRADE ELEVATION
CULVERT (Profile View)
UTILITIES
ELECTRIC
FIBER OPTIC
GAS
SANITARY SEWER
STORM SEWER
TELEPHONE
WATER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

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#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

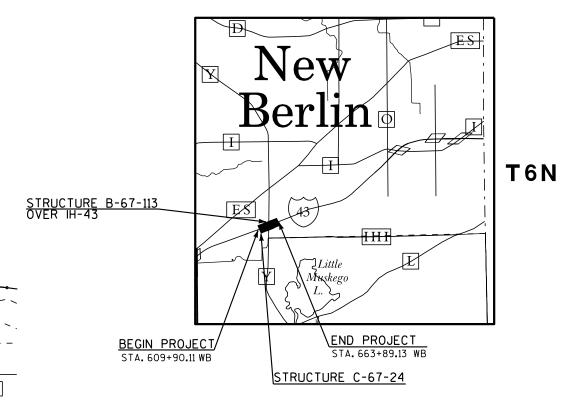
IH-43

ROUND-ABOUTS & APP AT CTH Y

#### HIGH FRICTION SURFACE TREATMENT 143 **WAUKESHA COUNTY**

1090-34-70

#### R<sub>2</sub>0E



LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 1.023 MI.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

1

PROJECT

WISC 2015286

STATE PROJECT

1090-34-70

PREPARED BY WISDOT Surveyor PRIYA MITRA JOHN KANZENBACH RICHARD HERRICK BENEDICT ERUCHALU C.O. Examiner

#### 4

#### **SE REGION STATE HIGHWAY MAINTAINENCE CONTACTS:**

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WAUKESHA,WI 53188
PHONE: (262)548-6730

#### WAUKESHA COUNTY

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#### **OTHER CONTACTS:**

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#### **GENERAL NOTES**

NO UTILITY FACILITIES ARE IDENTIFIED IN THE PLAN.

IDENTIFY ALL UTILITIES IN THE AREA BY CONTACTING DIGGERS HOTLINE.

THE CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVISOULSY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTISDE THE NORMAL CONSTRUCTION LIMITS.

PAVEMENT MARKINGS TO BE DETERMINED BY THE FIELD ENGINEER

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

#### **EROSION CONTROL GENERAL NOTES**

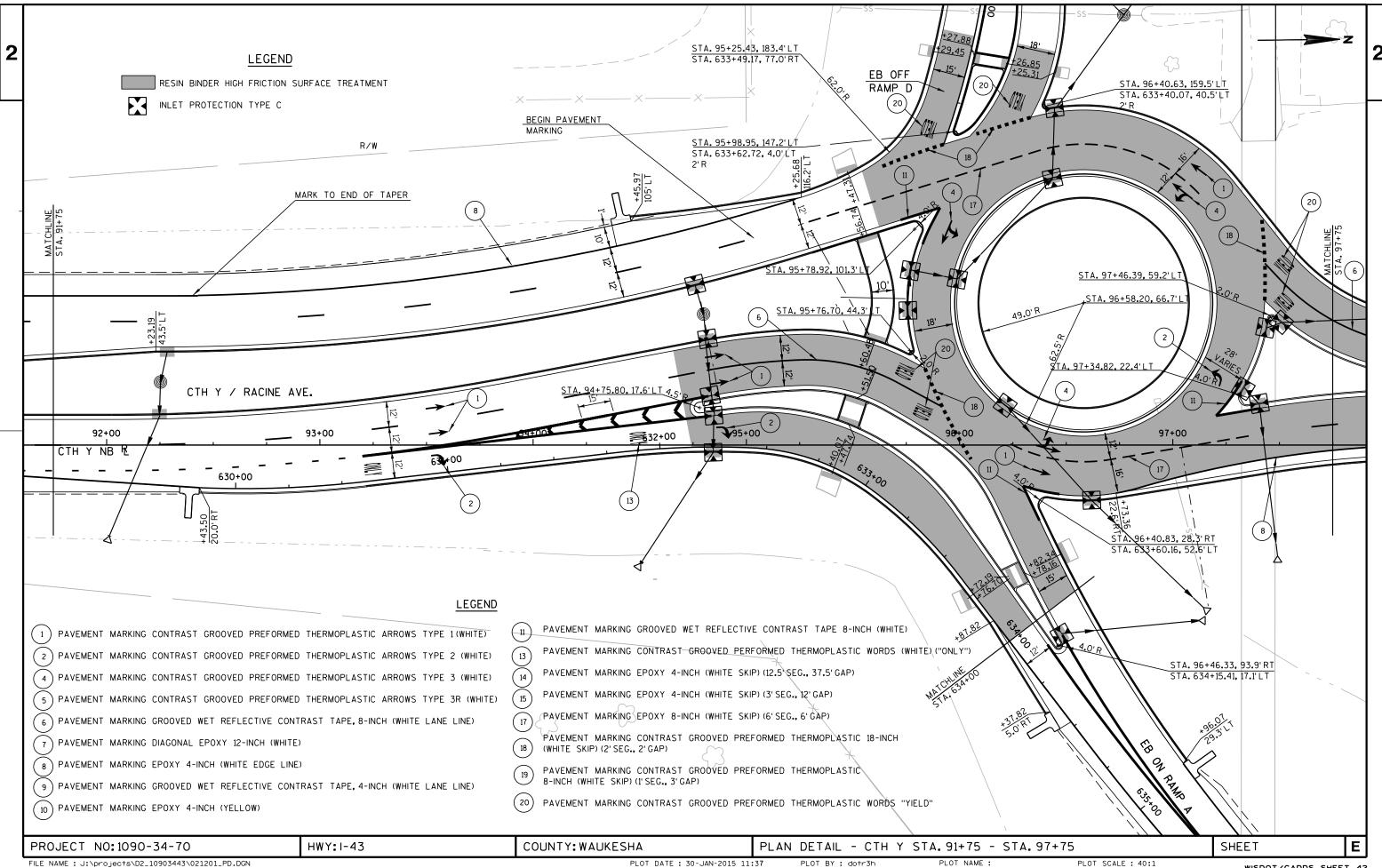
EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

WHEN PERFORMING ROADWAY CLEANING OPERATIONS, THE CONTRACTOR SHALL USE EQUIPMENT HAVING VACUUM OR WATER SPRAY MECHANISM TO ELIMINATE THE DISPERSION OF DUST. IF VACUUM EQUIPMENT IS EMPLOYED, IT SHALL HAVE SUITABLE SELF-PARTICULATE COLLECTORS TO PREVENT DISCHARGE FROM THE COLLECTION BIN INTO THE ATMOSPHERE.

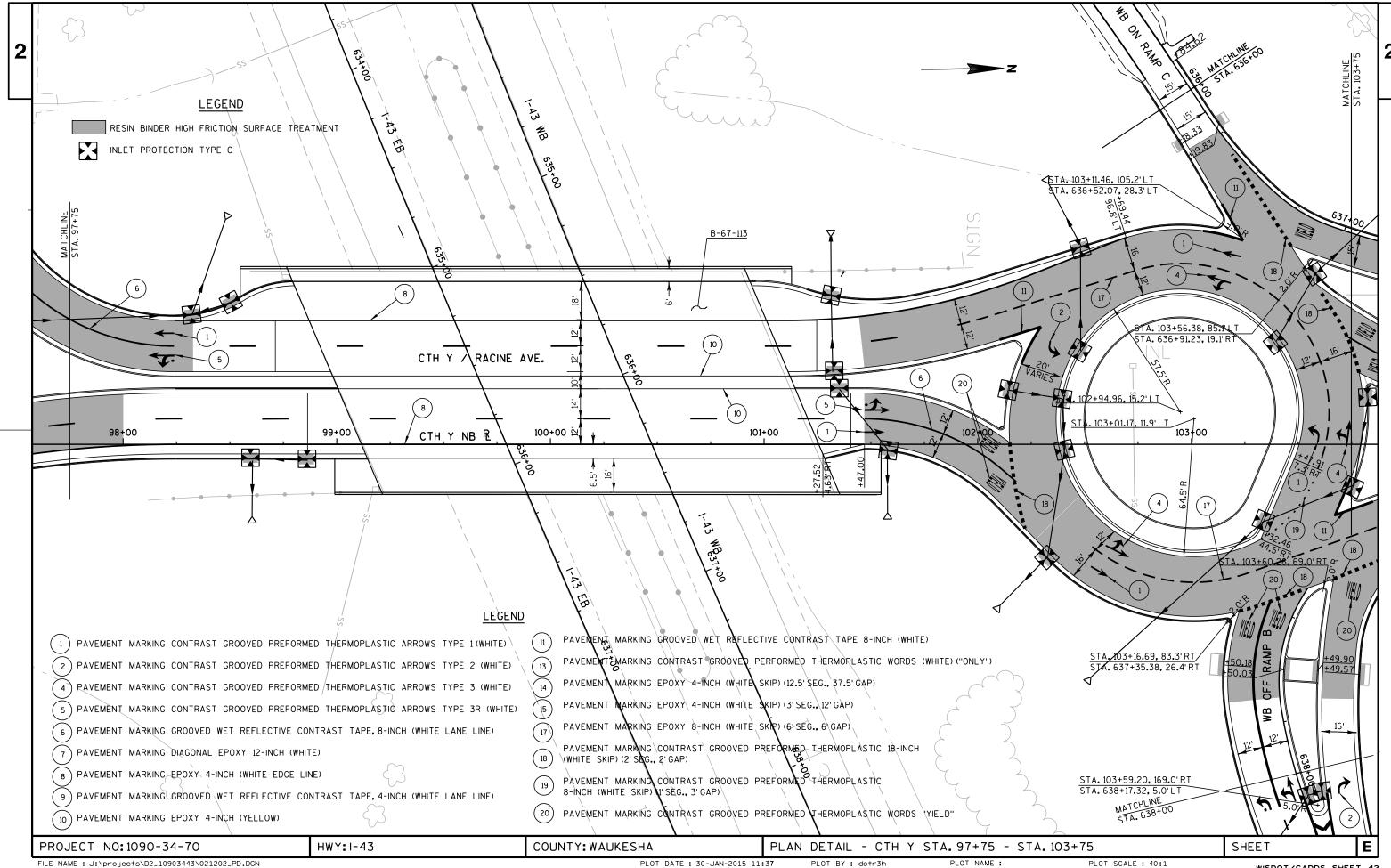


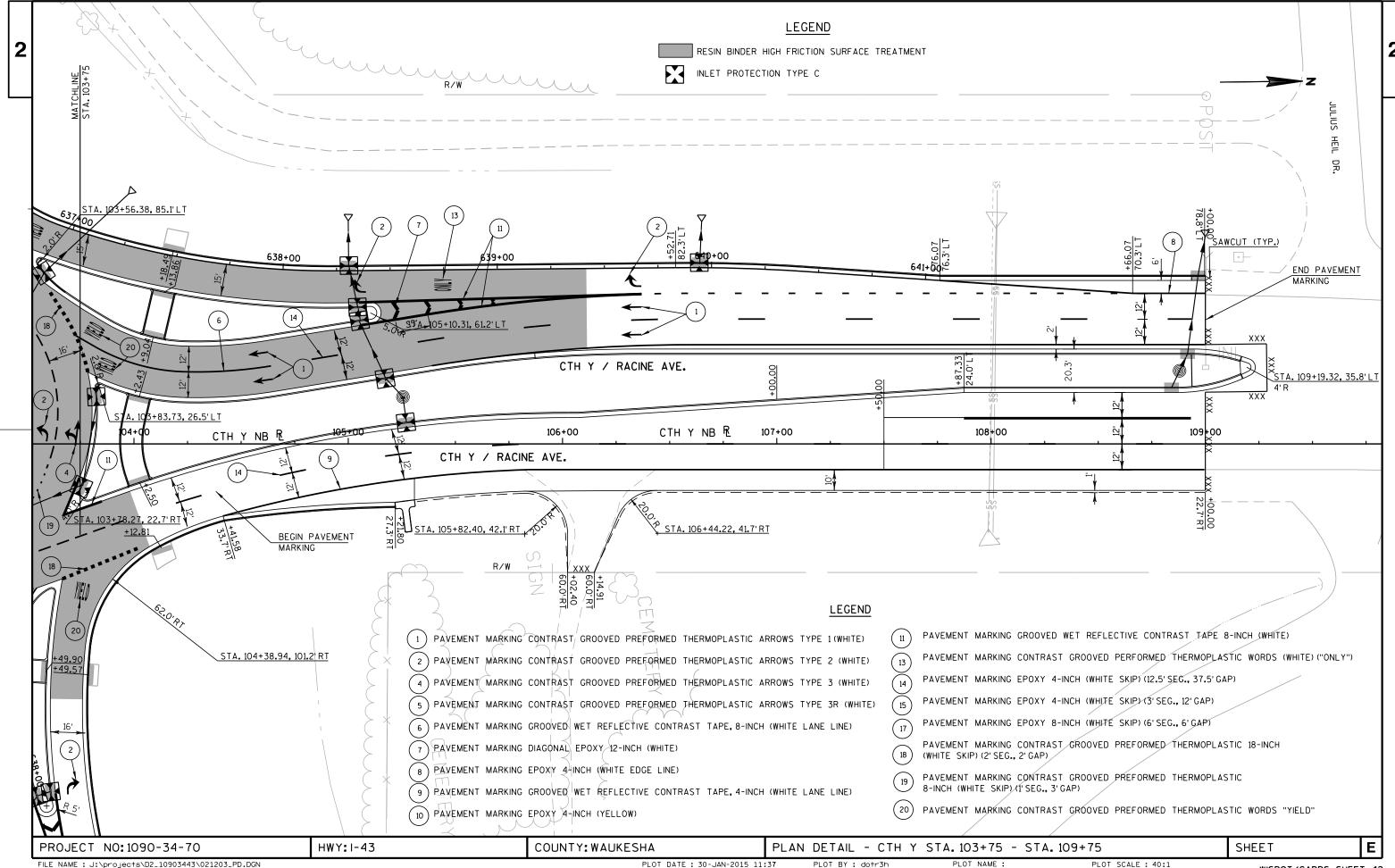
PROJECT NO: 1090-34-70 HWY: IH-43 COUNTY: WAUKESHA COUNTY GENERAL NOTES SHEET: E

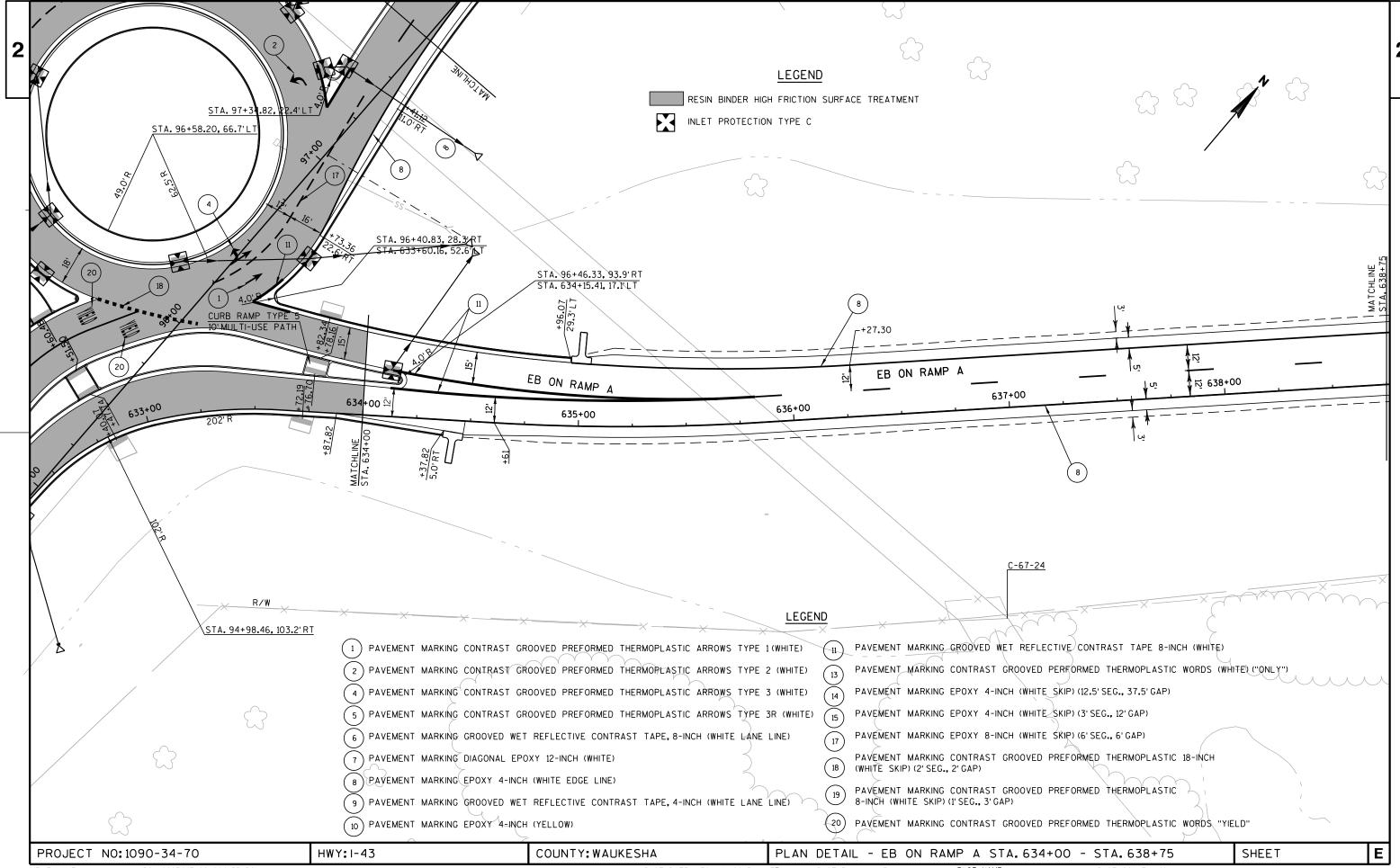
FILE NAME : \_\_\_\_\_\_ PLOT DATE : \_\_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1

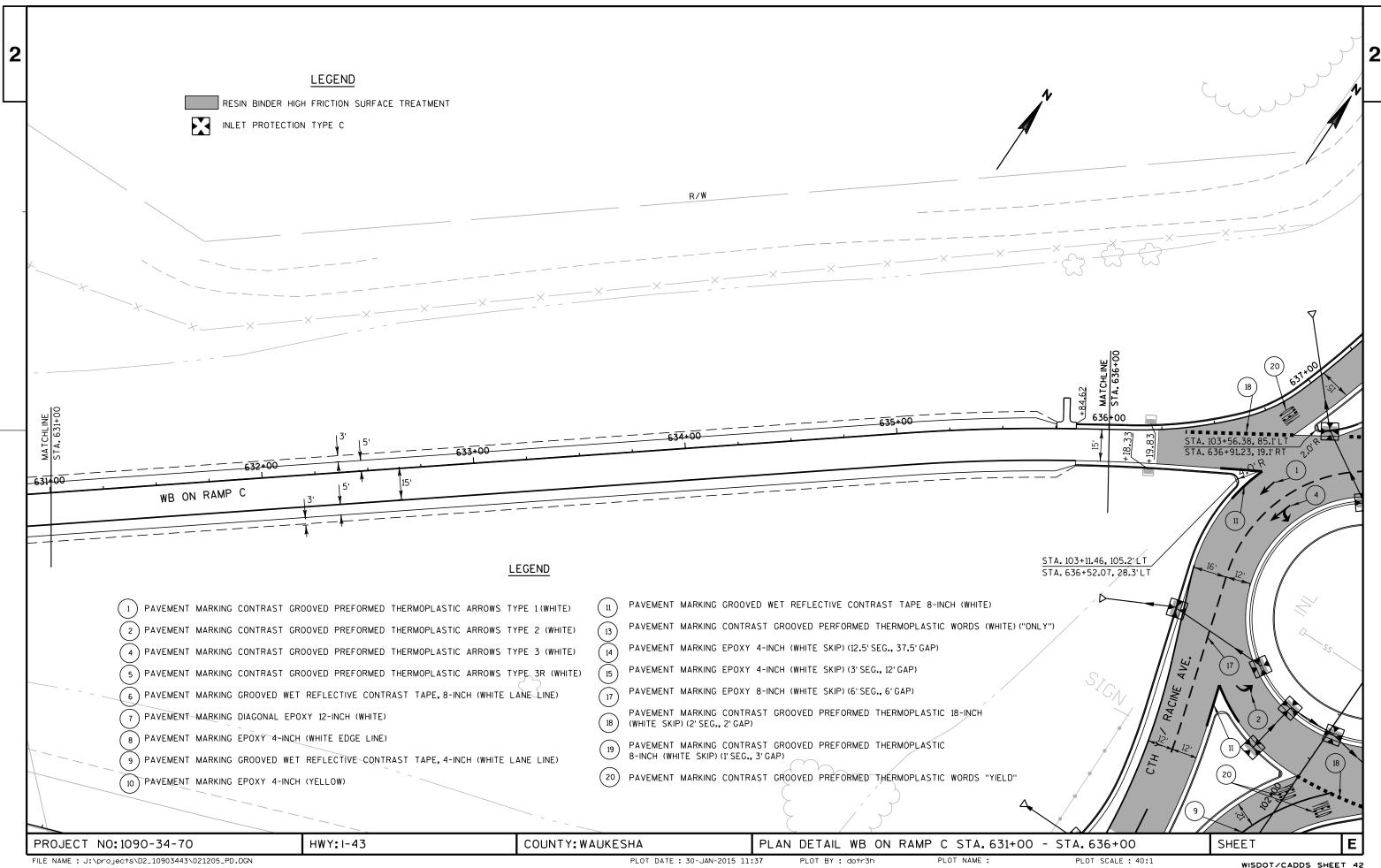


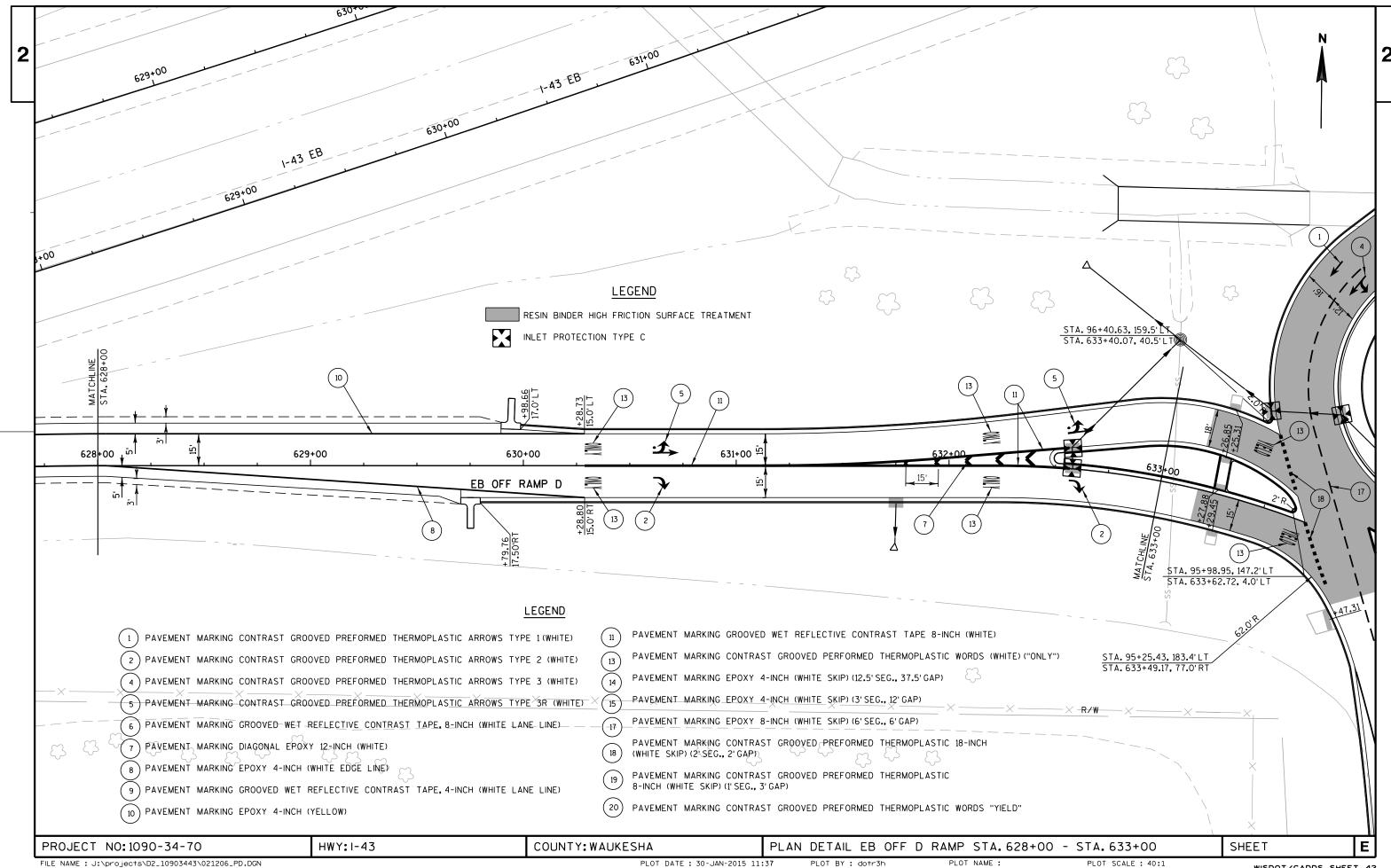
WISDOT/CADDS SHEET 42



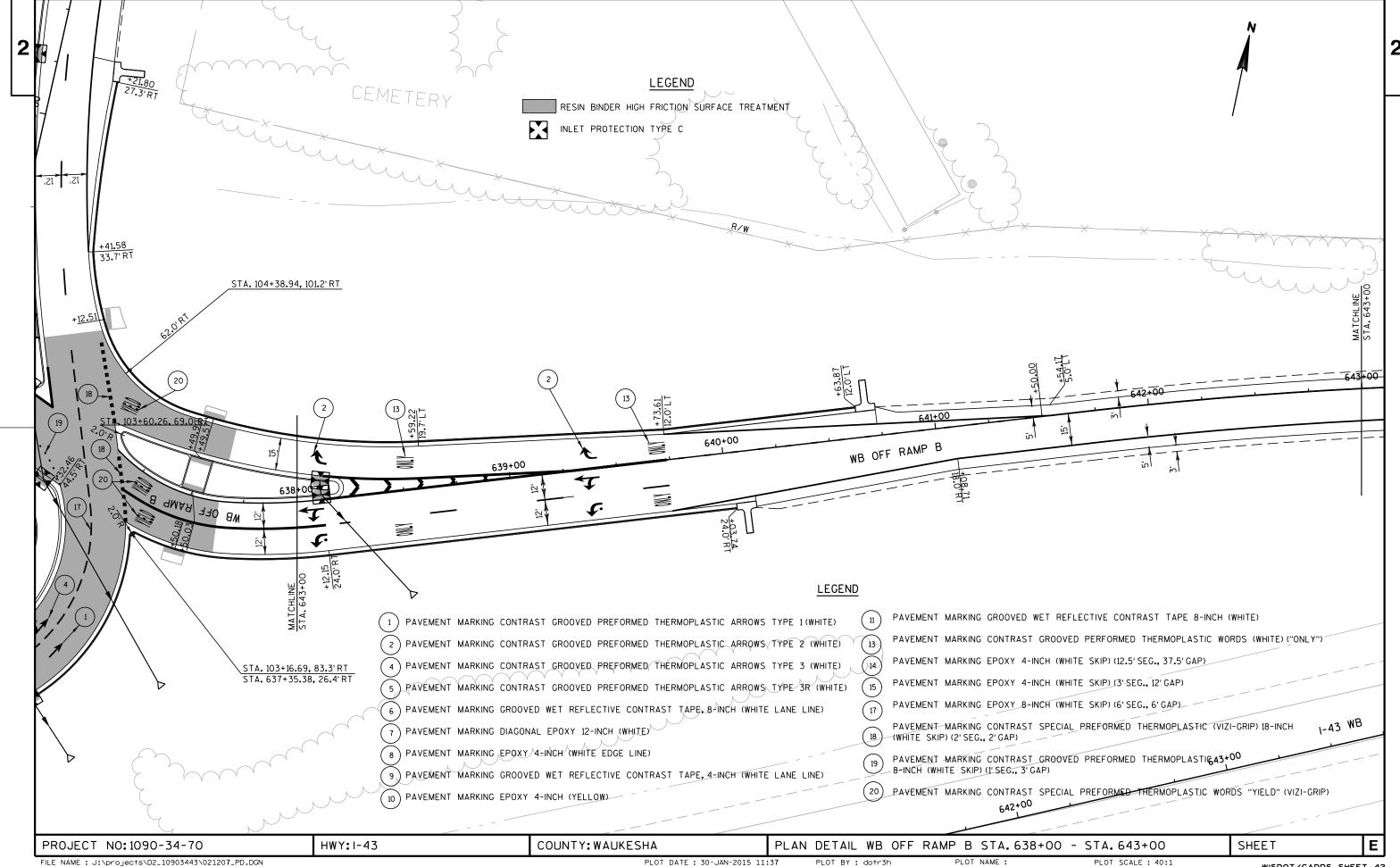




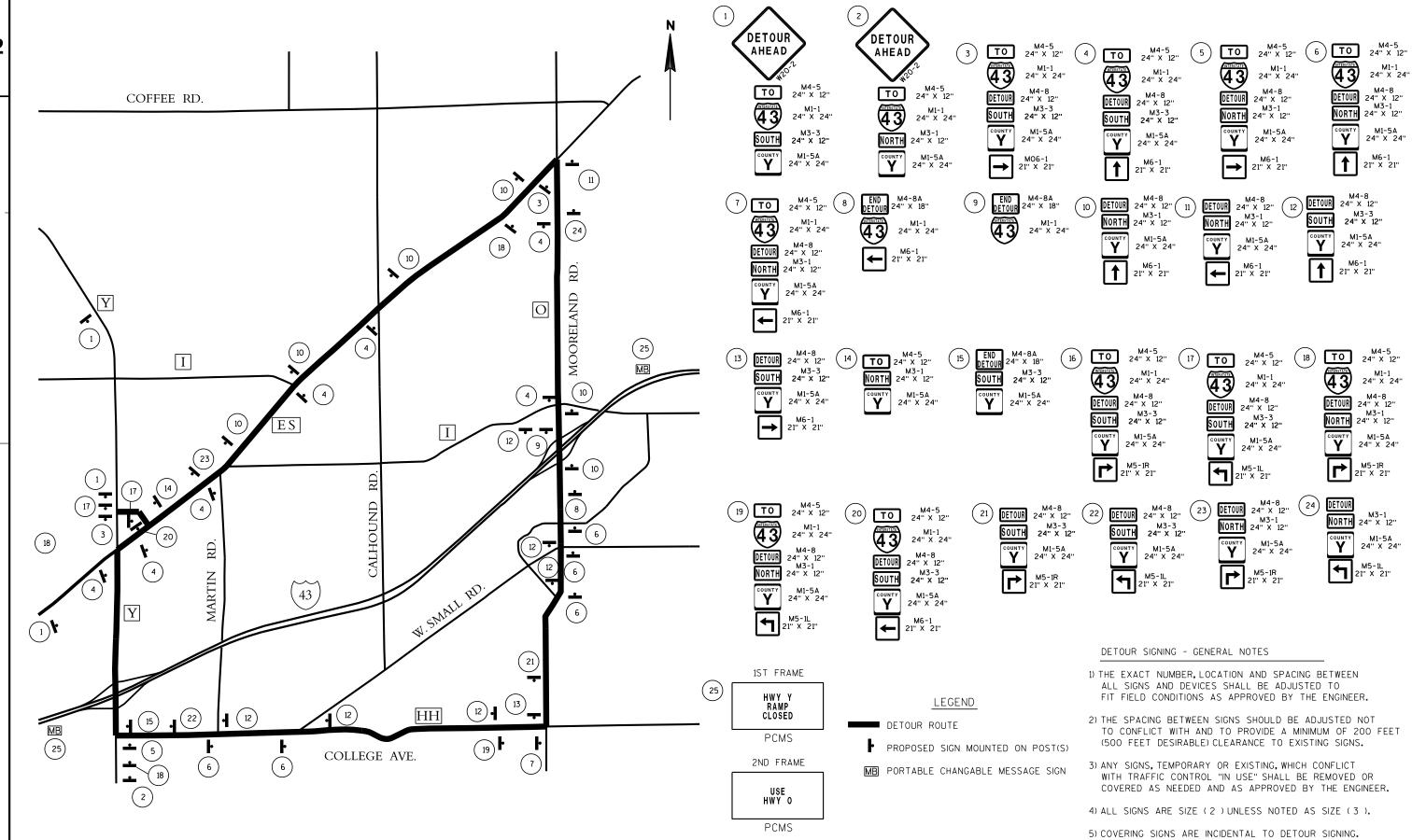




WISDOT/CADDS SHEET 42







HWY: IH-43

PROJECT NO: 1090-34-70

COUNTY: WAUKESHA

DETOUR ROUTE

SHEET

DATE 23	MAR15	EST	IMAT	E OF QUAN	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1090-34-70 QUANTI TY
0010	213. 0100	Finishing Roadway (project) 01.	EACH	1. 000	1. 000
55.5	_ / 0. 0 . 00	1090-34-70		550	555
0020	619. 1000	Mobilization	EACH	1.000	1.000
0030	628. 1905	Mobilizations Erosion Control	EACH	1. 000	1.000
0040	628. 1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0050	628. 7015	Inlet Protection Type C	EACH	50.000	50.000
00/0	(42,0100	Tag 661 a Comband (complete) 01 1000 04 70	EAGU.	1 000	1 000
0060	643. 0100	Traffic Control (project) 01. 1090-34-70	EACH	1.000	1.000
0070 0080	643. 0300 643. 0420	Traffic Control Drums	DAY DAY	750. 000 140. 000	750. 000 140. 000
0080	643. 0420	Traffic Control Barricades Type III Traffic Control Warning Lights Type A	DAY	170. 000	170. 000
0100	643. 0900	Traffic Control Signs	DAY	280. 000	280. 000
0100	043. 0900	Traffic Control Signs	DAT	260.000	260.000
0110	643. 1050	Traffic Control Signs PCMS	DAY	36.000	36. 000
0120	643. 2000	Traffic Control Detour (project) 01.	EACH	1. 000	1. 000
, . <del></del>		1090-34-70			
0130	643. 3000	Traffic Control Detour Signs	DAY	296.000	296.000
0140	646. 0106	Pavement Marking Epoxy 4-Inch	LF	3, 910. 000	3, 910. 000
0150	646. 0841. S	Pavement Marking Grooved Wet Reflective	LF	460.000	460. 000
		Contrast Tape 4-Inch			
0160	646. U843. S	Pavement Marking Grooved Wet Reflective	LF	1, 615. 000	1, 615. 000
0170	647. 0726	Contrast Tape 8-Inch Pavement Marking Diagonal Epoxy 12-Inch	LF	4E 000	6F 000
0170	647. 0726 649. 0100	Temporary Pavement Marking 4-Inch	LF	65. 000 3, 910. 000	65. 000 3, 910. 000
0180	649. 0100 649. 0701		LF	3, 910. 000 1, 615. 000	3, 910. 000 1, 615. 000
0200	649. 0701 649. 1700	Temporary Pavement Marking 8-Inch Temporary Pavement Marking Arrows	EACH	35. 000	35. 000
0200	047. 1700	remporary ravement warking arrows	CACH	35.000	აა. <del>0</del> 00
0210	649. 1900	Temporary Pavement Marking Words	EACH	22. 000	22. 000
0220	SPV. 0060	Special 01. Pavement Marking Contrast	EACH	14. 000	14. 000
		Grooved Preformed Thermoplastic Arrows		230	220
		Type 1			
0230	SPV. 0060	Special O2. Pavement Marking Contrast	EACH	11. 000	11. 000
		Grooved Preformed Thermoplastic Arrows			
		Type 2			
0240	SPV. 0060	Special 03. Pavement Marking Contrast	EACH	6. 000	6.000
		Grooved Preformed Thermoplastic Arrows			
		Type 3			
0250	SPV. 0060	Special 04. Pavement Marking Contrast	EACH	4. 000	4. 000
		Grooved Preformed Thermoplastic Arrows			
		Type 3R			
0260	SPV. 0060	Special O5. Pavement Marking Contrast	EACH	22. 000	22. 000
0200	3F V. 0000	Grooved Preformed Thermoplastic Words	LACIT	22.000	22.000
0270	SPV. 0090	Special O1. Pavement Marking Contrast	LF	45. 000	45. 000
0270	31 V. 3070	Grooved Preformed Thermoplists 8-Inch		43.000	43.000
0280	SPV. 0090	Special 02. Pavement Marking Contrast	LF	395. 000	395.000
0200		Preformed Thermoplstc 18-Inch Yield Line		0,0.000	0,0.000
0290	SPV. 0180	Special O1. Resin Binder High Friction	SY	6, 495. 000	6, 495. 000
		Surface Treatment		,	,

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SHEET:

#### TRAFFIC CONTROL

ROADWAY	643.0100 TRAFFIC CONTROL (10903470) (EACH)	643.0300 TRAFFIC CONTROL DRUMS (DAY)	643.0420 TRAFFIC CONTROL BARRICADES TYPE III (DAY)	CONTROL	643.2000 TRAFFIC CONTROL DETOUR (10903470)(EACH)	TEMPORARY	649.0701 TEMPORARY PAVEMENT MARKING 8-INCH (LF)	649.1700 TEMPORARY B PAVEMENT MARKING ARROWS (EACH)	649.1900 TEMPORARY PAVEMENT MARKING WORDS (EACH)
IH 43 RAMPS	1	750	40	40		915	640	6	6
CTH Y			100	130	1	2995	975	29	16
TOTAL	1	750	140	170	1	3910	1615	35	22

#### PERMANENT PAVEMENT MARKING

			646.0	646.0106 PAVEMENT MARKING EPOXY 4-INCH		-INCH	646.0841.S PAVEMENT MARKING GROOVED WET	646.0843.S PAVEMENT MARKING GROOVED WET	647.0726 PAVEMENT	
					(WHITE) (12.5'	(WHITE) (6'				
			(YELLOW)		SEG., 37.5'GAP)	SEG., 6'GAP)	REFLECTIVE CONTRAST TAPE 4-INCH (WHITE)	REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)	MARKING DIAGONAL	
ROADWAY	STATION	STATION	(LF)	(WHITE) (LF)	(LF)	(LF)	(LF)	(LF)	EPOXY 12-IN (LF)	
CTH Y										
	92+00	HFST		305			<del></del>			
	HFST S	RAB S		140		320	<del></del>	300		
	RAB S	HFST N	625	645			<del></del>			
	HFST N	RAB N		135		400	<del></del>	675	30	
	RAB N	End		125	300		460			
IH 43 RAMPS										
EB ON RAMP A	633+50	638+75		465				315		
WB OFF RAMP B	638+00	643+00								
WB ON RAMP C	631+00	636+00								
EB OFF RAMP D	628+00	633+00	225	225			-	325	35	
SUBTOTAL			850	2040	300	720	460	1615	65	
TOTAL		-	3910				460	1615	65	

					<u>PI</u>	<u>ERMANENT PAVEMENT MARKIN</u>	<u>G</u>			
					_		SPV.0060.05 PAVEMENT			
			SPV.0060.01 PAVEMENT	SPV.0060.02 PAVEMENT	SPV.0060.03 PAVEMENT	SPV.0060.04 PAVEMENT	MARKING CONTRAST	SPV.0060.05 PAVEMENT	SPV.0090.01 PAVEMENT MARKING	SPV.0090.02 PAVEMENT MARKING
			MARKING CONTRAST	MARKING CONTRAST	MARKING CONTRAST	MARKING CONTRAST GROOVED	GROOVED PREFORMED	MARKING CONTRAST GROOVED	CONTRAST GROOVED	CONTRAST GROOVED PREFORMED
			GROOVED THERMOPLASTIC	GROOVED THERMOPLASTIC	GROOVED THERMOPLASTIC	THERMOPLASTIC ARROWS	THERMOPLASTIC WORDS	PREFORMED THERMOPLASTIC	PREFORMED THERMOPLASTIC 8-	THERMOPLASTIC YEILD LINE18-
ROADWAY	STATION	STATION	ARROWS TYPE 1 (EACH)	ARROWS TYPE 2 (EACH)	ARROWS TYPE 3 (EACH)	TYPE 3R (EACH)	(EACH)	WORDS ONLY (EACH)	INCH (WHITE) (1' SEG., 3' GAP) (LF)	INCH (WHITE) (2' SEG., 2'GAP) (LF)
CTH Y										
	92+00	HFST	2	1				1		
	HFST S	RAB S	5	2	3	1	6			155
	RAB S	HFST N								
	HFST N	RAB N	7	4	3	1	8	1	45	240
	RAB N	End								-
IH 43 RAMPS										
EB ON RAMP A	633+50	638+75								
WB OFF RAMP B	638+00	643+00		2				2		
WB ON RAMP C	631+00	636+00								
EB OFF RAMP D	628+00	633+00		2		2		4	<del></del>	
									<b></b>	
SUB TOTAL			14	11	6	4	14	8	45	395
TOTAL			14	11	6	4			45	395
								22		

MISCELLANEOUS QUANTITIES

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1

COUNTY: WAUKESHA

PROJECT NO: 1090-34-70

HWY: I – 43

TRAFFIC CONTROL	
	•

ROADWAY	SIGN CODE	QUANTITY	SIGN SIZE (IN)	643.0900 TRAFFIC CONTROL SIGNS (DAY)	643.3000 TRAFFIC CONTROL DETOUR SIGNS (DAYS)	643.1050 TRAFFIC CONTROL SIGNS PCMS (DAYS)
IH 43 Ramps	1, 1, 1, 1, 1, 1, 1, 1, 1, 1					
	G20-2A	4	48X24	32		<b></b>
	R11-2R	4	48X30	32	<b></b>	
	R11-51	2	48X48	16		
	W20-1	4	48X48	32		
	W20-3(MOD)	4	48X48	32	48	
	W20-3(MOD)	4	48X48	32		
	PCMS	2		<b></b> .		36
CTHY						
	M1-5A	13	24X24		104	
	M3-1	7	24X12		56	
	M3-3	6	24X13		48	**
	M4-8	11	24X12		88	
	R11-2	2	48X48	16		m ==
	R11-2B	2	48X48	16		
	R11-3	1	60X30	8		
	R11-4	2	60X30	16		
	W20-2	2	48X48	16		<del></del>
	W20-3	4	48X48	32		
TOTAL		68		280	296	36

#### **MISCELLANEOUS**

ROADWAY	213.0100 FINISHING ROADWAY (EACH)	619.1000 MOBILIZATION (EACH)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)	628.7015 INLET PROTECTION TYPE C (EACH)
PROJECT (1090-34-70)	1	1	1	1	50
TOTAL	1	1	1	1	50

RESIN BINDER HIGH FRICTION SURFACE TREATMENT			
ROADWAY	STATION	STATION	SPV.0180 RESIN BINDER HIGH FRICTION SURFACE TREATMENT (SY)
CTH Y		•	
	SOUTH		2992
	NORTH		3503
TOTAL			6495

E MISCELLANEOUS QUANTITIES SHEET: COUNTY: WAUKESHA HWY: I – 43 PROJECT NO: 1090-34-70 PLOT NAME : \_\_\_

PLOT DATE : \_\_\_

PLOT SCALE : 1:1

#### Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C20-01	YI ELD MARKI NG
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-01D	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15D12-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D16-02	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-02	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-02	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-02	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-02	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE

6





INLET PROTECTION, TYPE A

#### **GENERAL NOTES**

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

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

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

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



#### INLET PROTECTION, TYPE C (WITH CURB BOX)

#### **INSTALLATION NOTES**

#### TYPE B & C

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

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

#### TYPE D

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

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

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

#### INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

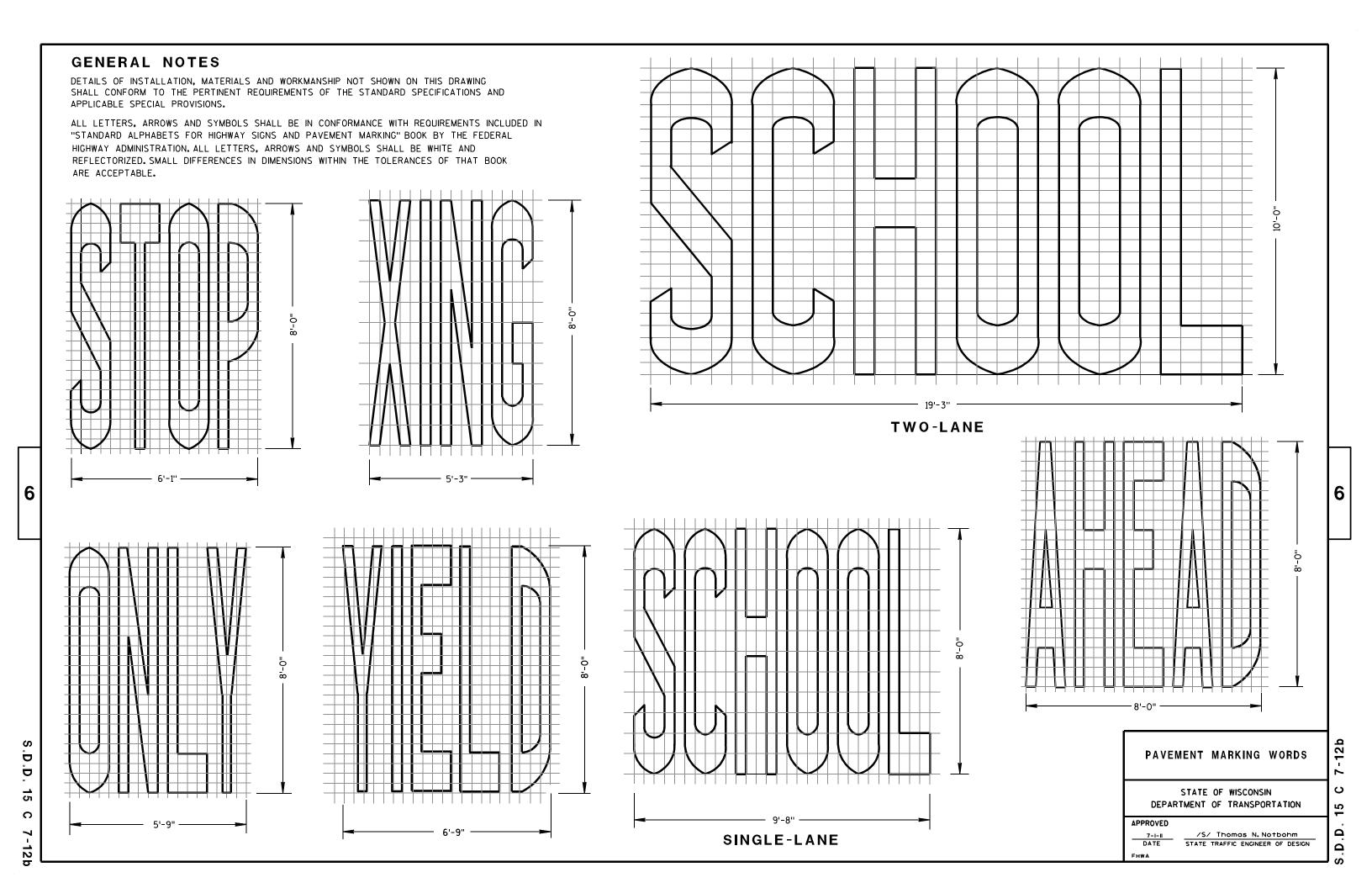
10/16/02

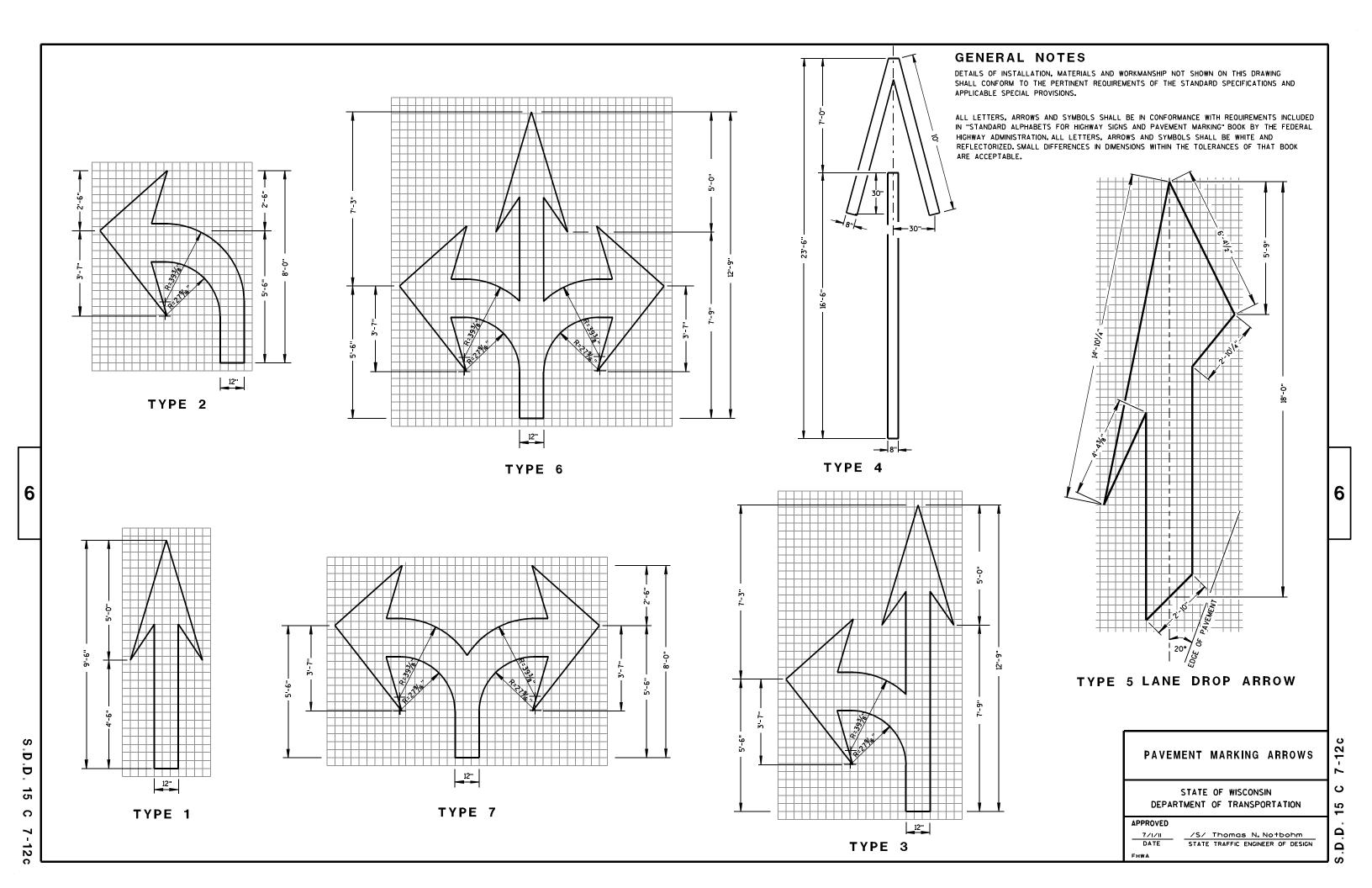
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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TYPE 2R

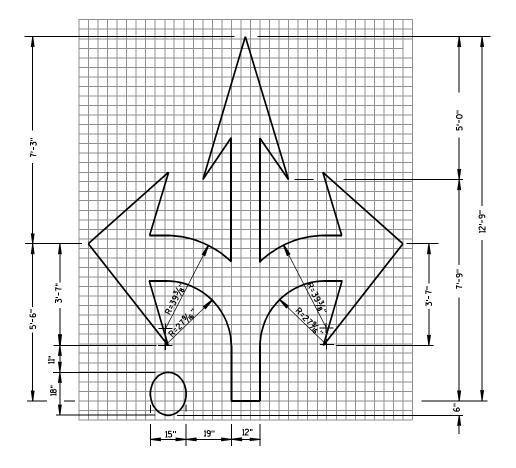
# 15" 19" 12"

#### TYPE 7R

#### **GENERAL NOTES**

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

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



TYPE 6R

ROUNDABOUT ARROWS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

7/I/II DATE /S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

6

15

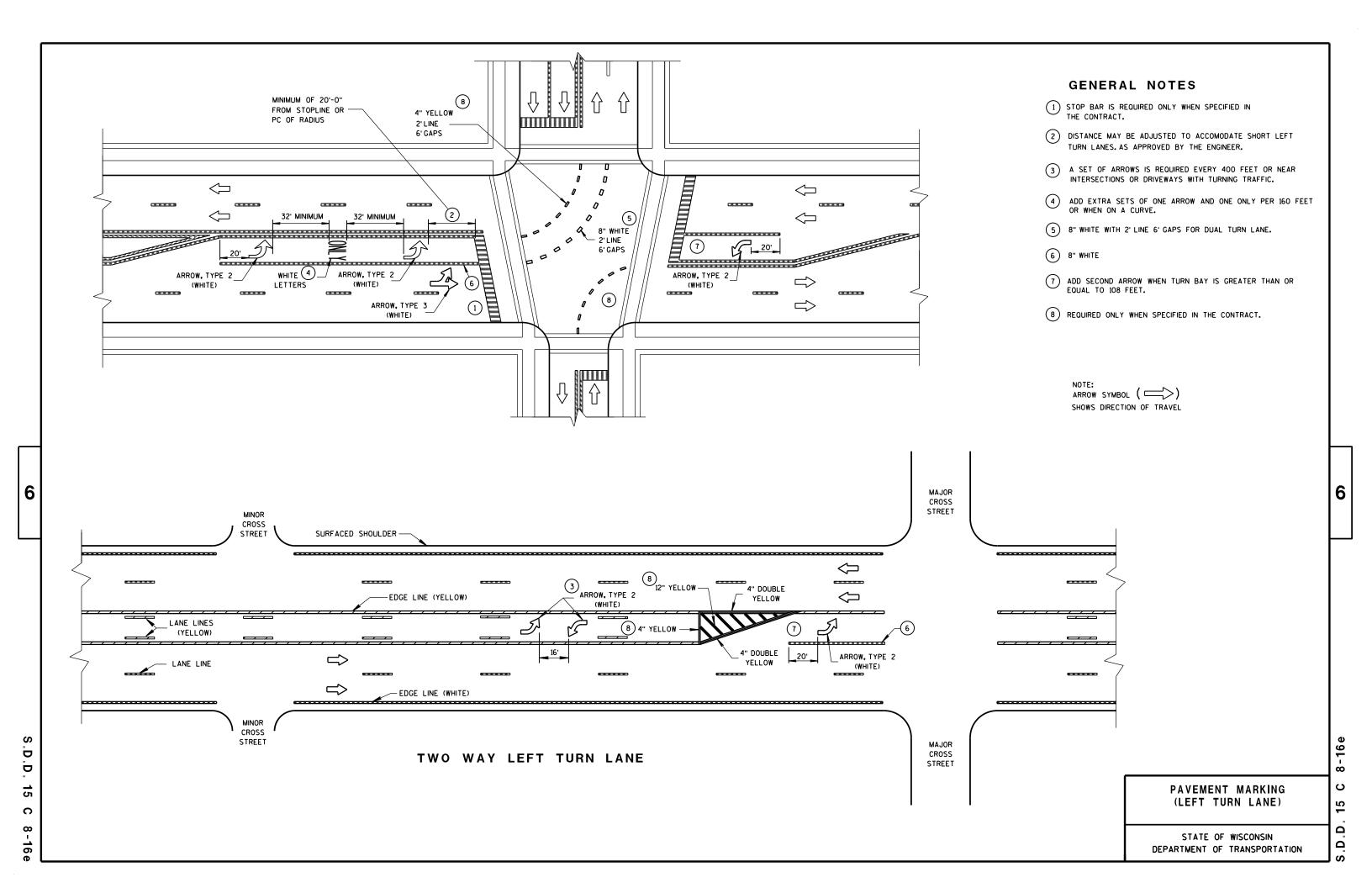
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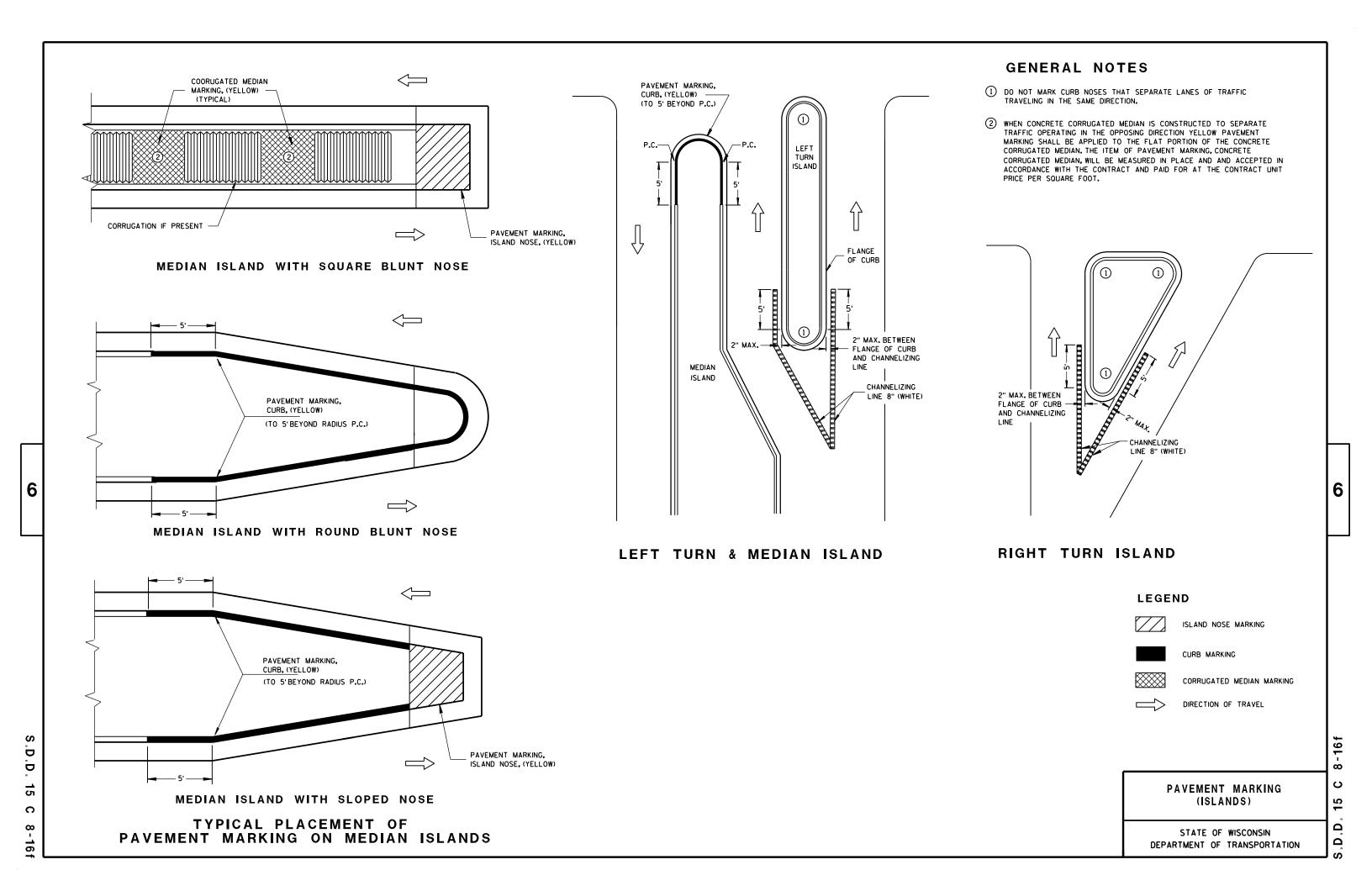
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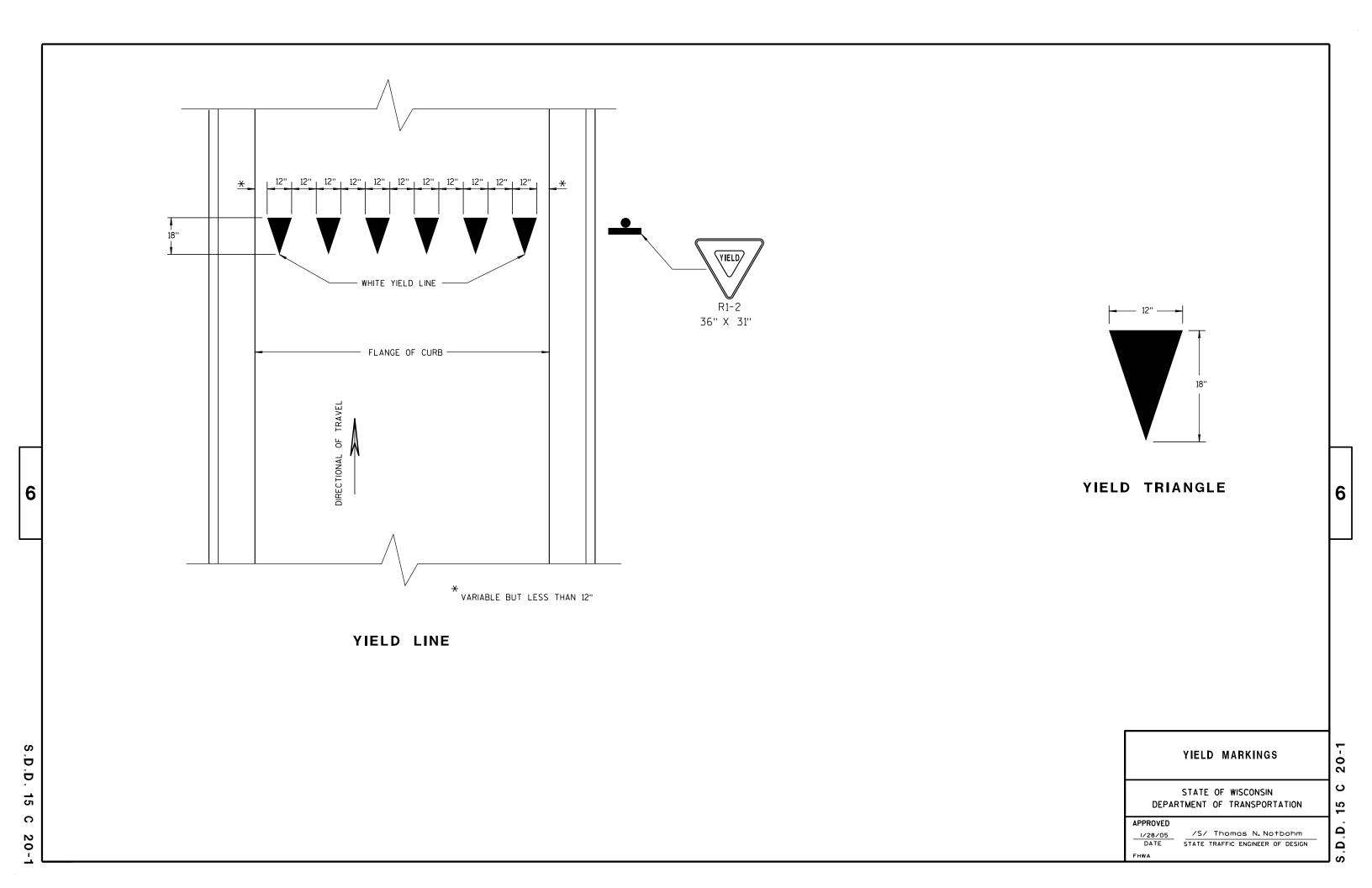
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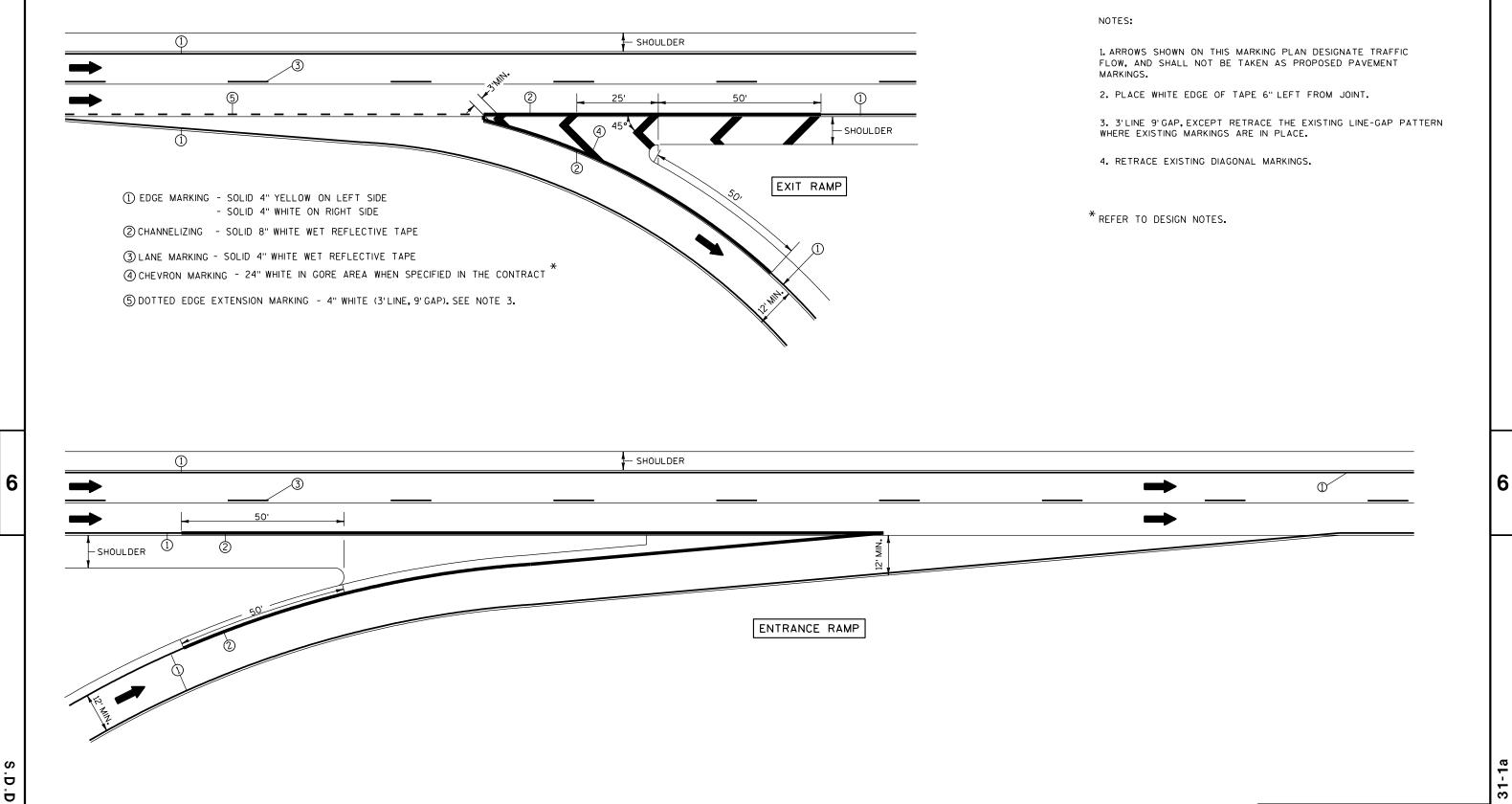










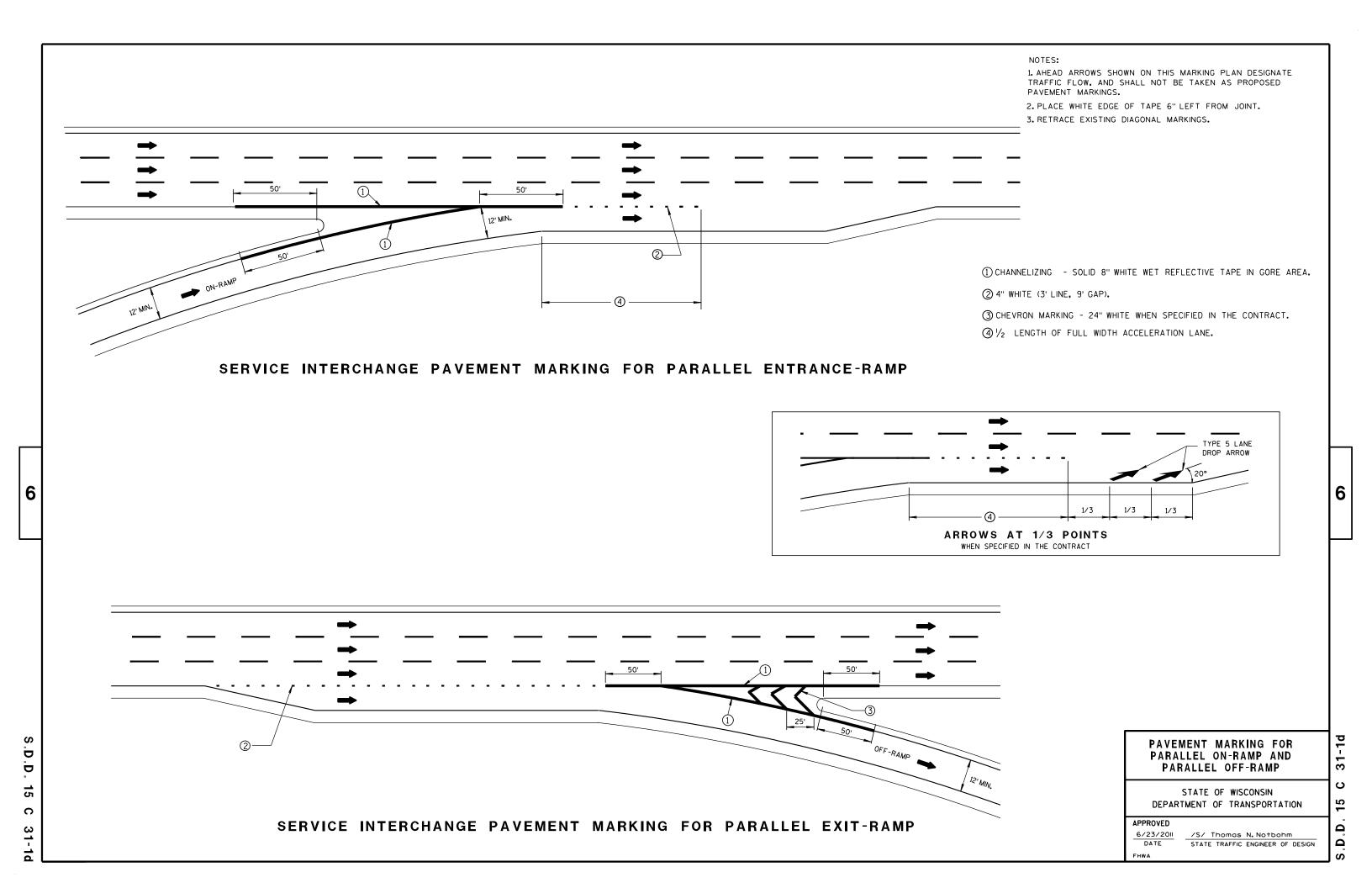


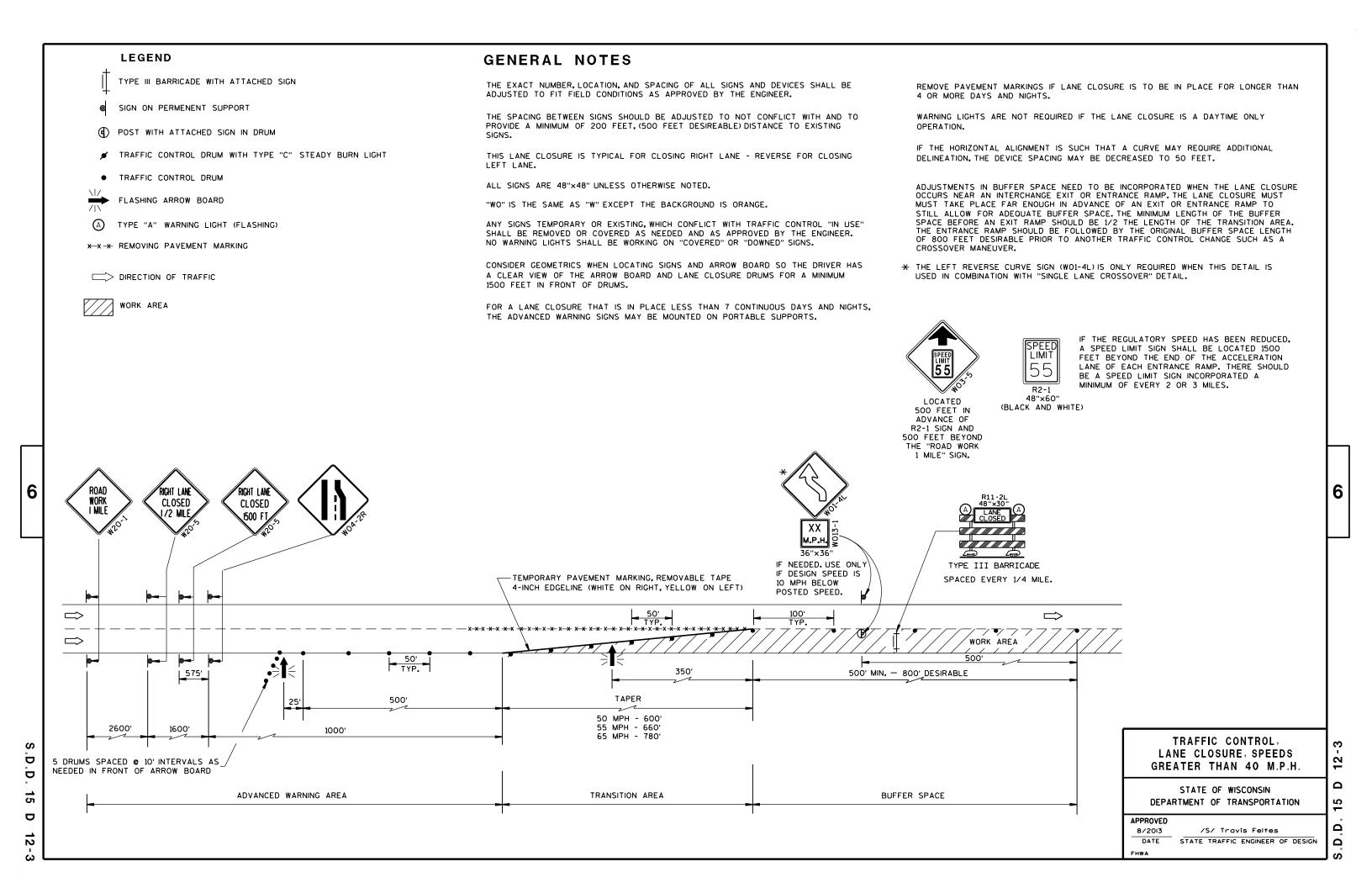
C

3.D.D. 15 C 31-1a

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (RAMPS AND GORES)





#### LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

SIGN ON PERMANENT SUPPORT

(△) TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

16

#### **GENERAL NOTES**

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

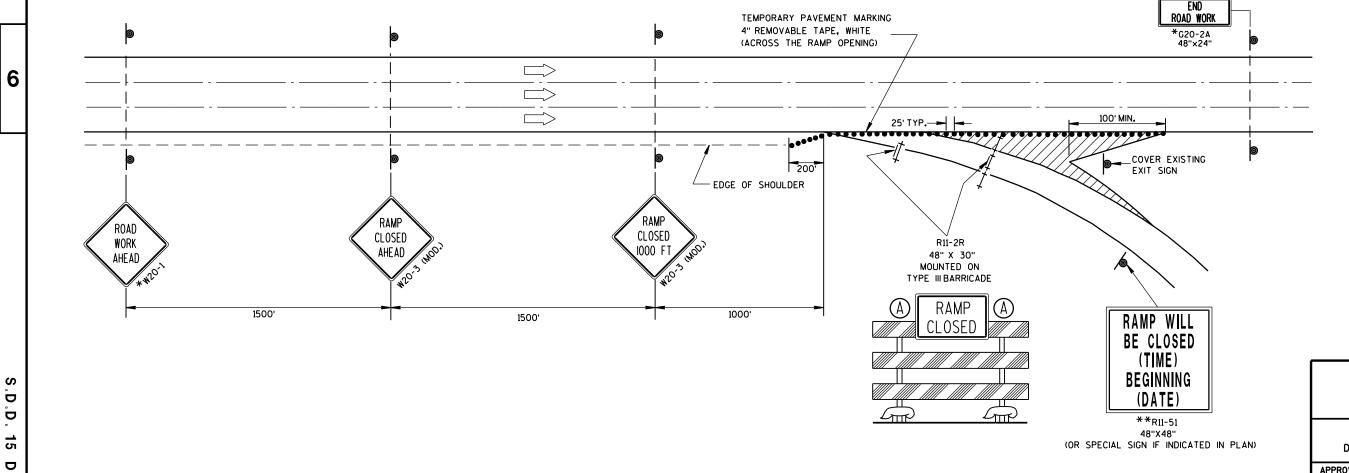
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

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

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

\*\* PLACE "RAMP WILL BE CLOSED" SIGN 10 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/2013

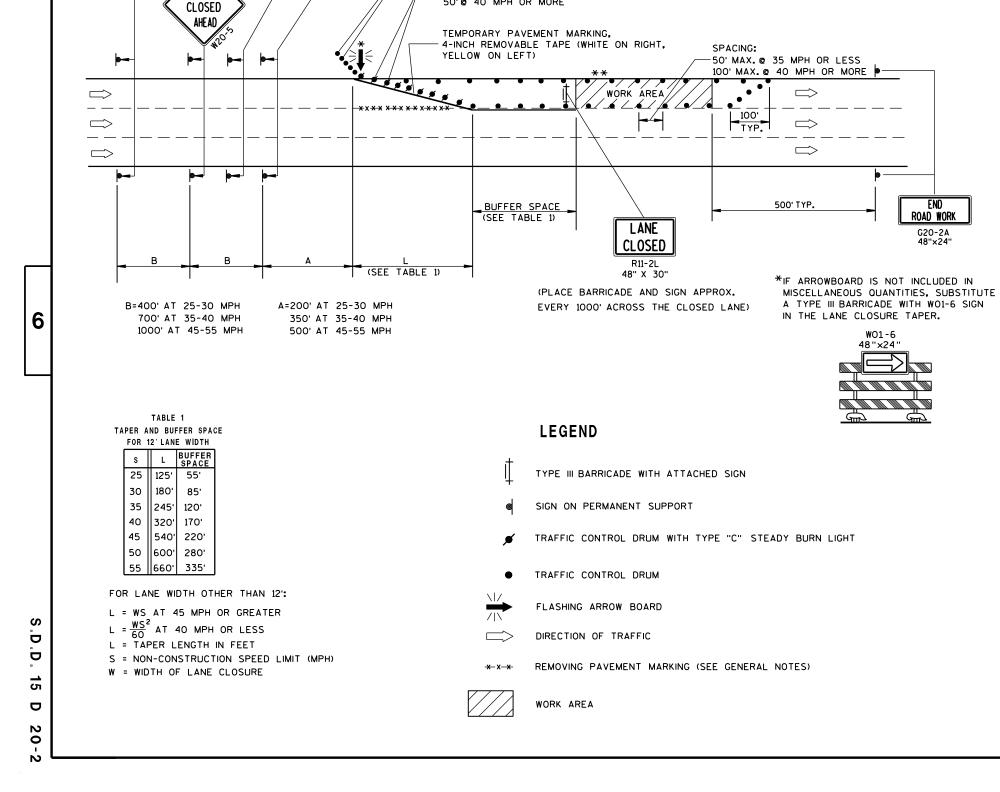
B/2013

DATE

STATE TRAFFIC ENGINEER OF DESIGN
FHWA

D.D. 15 D 16





(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

25' @ 35 MPH OR LESS 50' @ 40 MPH OR MORE

SPACING:

ROAD WORK

NEXT\_\_\_MILES

G20-1

60" X 24"

AHEAD

#### **GENERAL NOTES**

\*\*THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

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

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

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

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

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

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

W2O-1, G2O-1 AND G2O-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

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

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

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

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

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

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

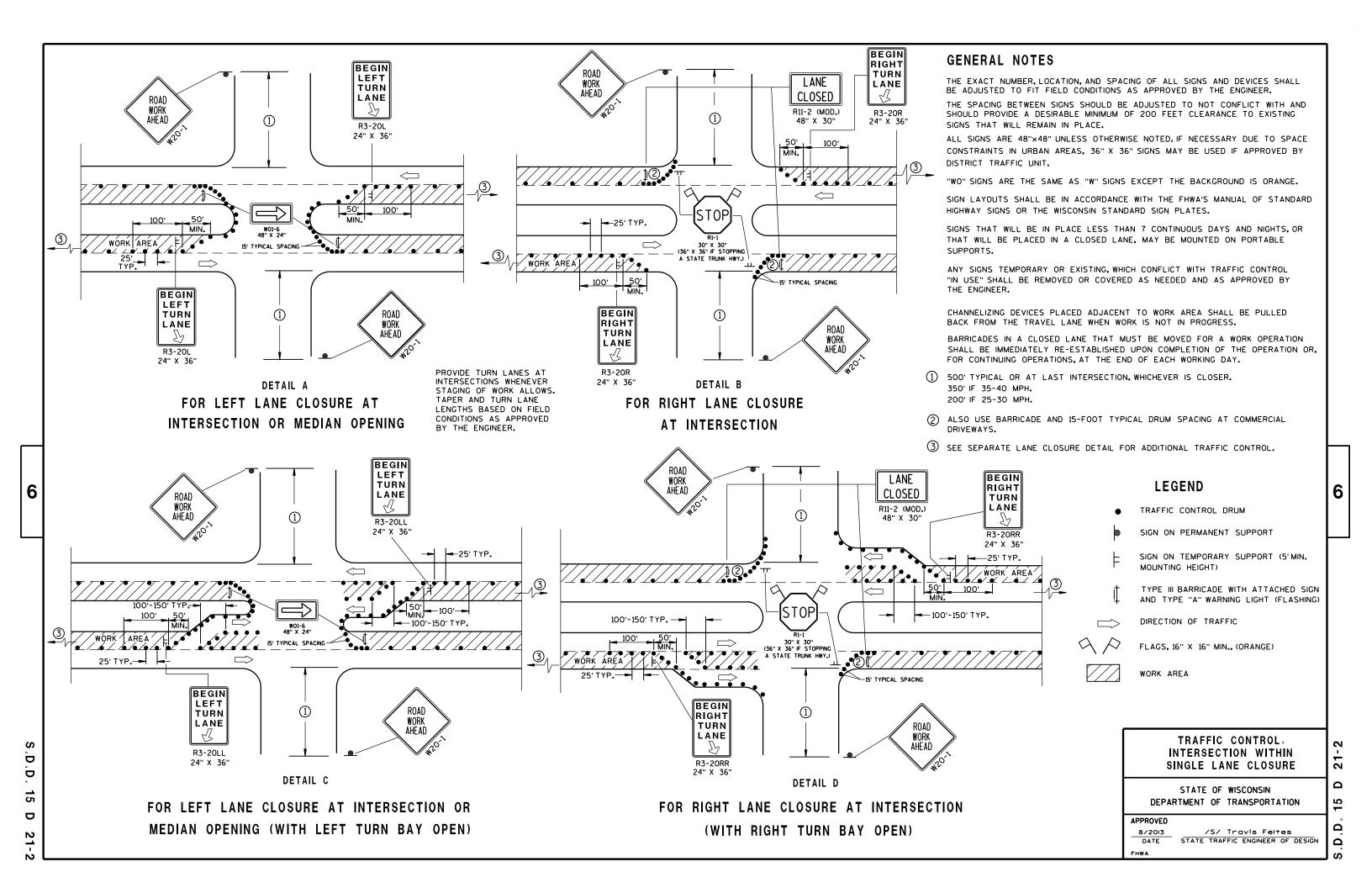
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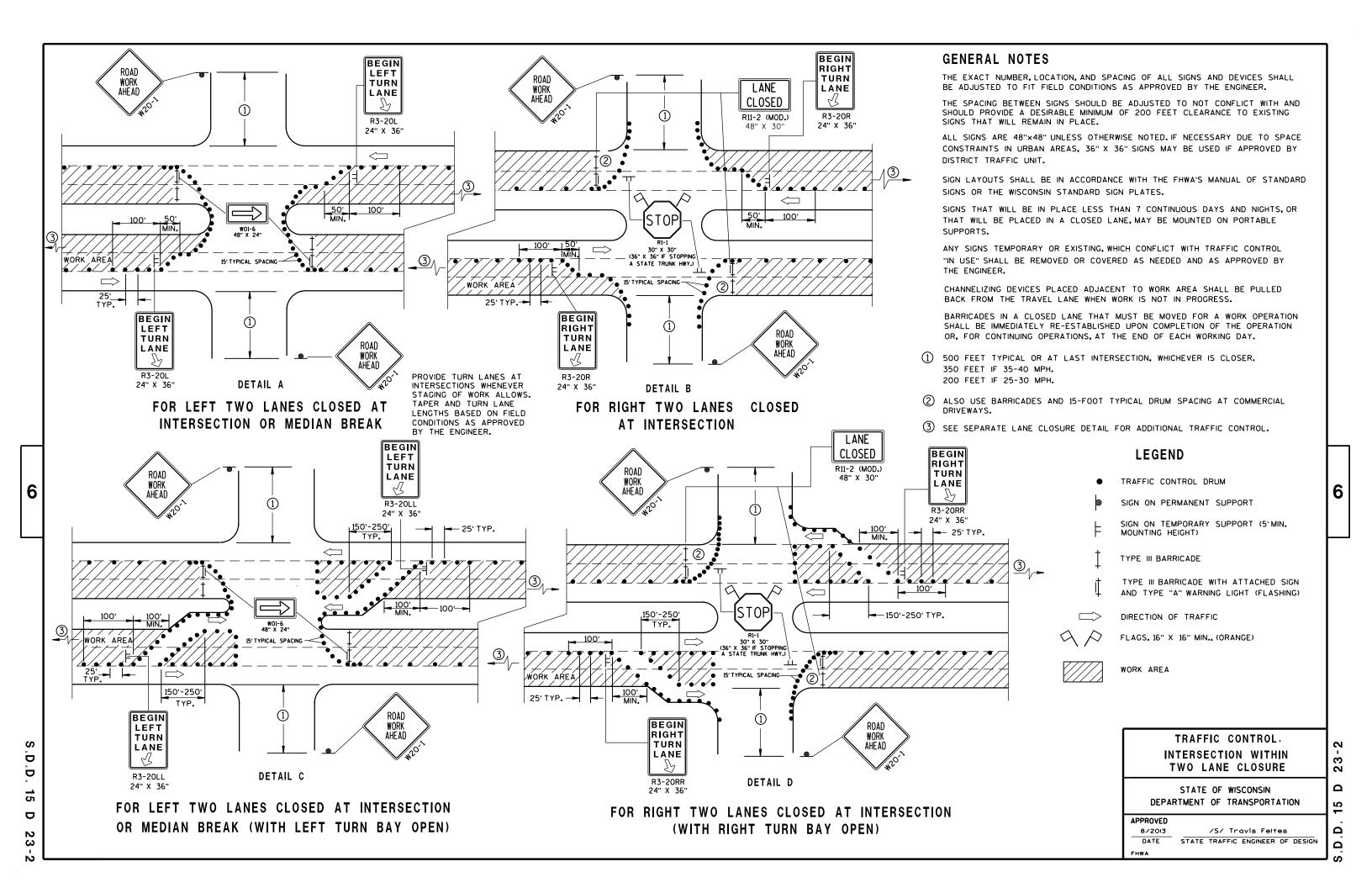
APPROVED

8/2013 /S/ Travis Feites

DATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 D 2







### Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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