

SE REGION STATE HIGHWAY MAINTENANCE CONTACTS

PAUL AMBROSE
MAINTENANCE PROGRAM ENGINEER
WISDOT SE REGION
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 548-6730

RACINE COUNTY

GAIL LANTZ
AREA MAINTENANCE COORDINATOR
WISDOT SE REGION
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (414) 750-0994

WALWORTH COUNTY
DENNIS SCHMUNCK
AREA MAINTENANCE COORDINATOR
WISDOT SE REGION
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (414) 750-1563

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS

DNR CONTACTS

RACINE COUNTY
KRISTINA BETZOLD
DNR SOUTHEAST REGION HQ
2300 DR. MARTIN LUTER KING JR. DR
MILWAUKEE, WI 53212
PHONE; (414) 263-8517
kristina.betzold@wisconsin.gov

WALWORTH COUNTY
CRAIG WEBSTER
141 NW BARSTOW ST. RM:180
WAUKESHA, WI 53188
PHONE: (262) 574-2141
craig.webster@wisconsin.gov

OTHER CONTACTS
DOUGLAS CAIN
WISDOT PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 548-5603

DAVID CAVERSON SPANN & ASSOCIATES, LLC W175 N11086 STONEWOOD DRIVE, SUITE B GERMANTOWN, WI 53022 PHONE: (414) 779-1419

GENERAL NOTES

NO UTILITY FACILITIES ARE IDENTIFIED IN THE PLAN. CONTRACTOR IS RESPONSIBLE TO CONFIRM THIS.

IDENTIFY ALL UTILITIES IN THE AREA BY CONTACTING DIGGERS HOTLINE.

NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

QUANTITY FOR ROUTE AND SEAL IS ESTIMATED AT 3 LF PER 1 LB OF MATERIAL.

QUANTITY FOR CRACK SEALING IS ESTIMATED AT 4 LF PER 1 LB OF MATERIAL.

EPOXY PAVEMENT MARKINGS WILL BE CONTINUOUS WITHIN THE PROJECT LIMITS.

ROUTE, CRACK AND SEAL MODIFIED LOCATIONS ARE APPROXIMATE AND WILL BE DERTERMINED BY THE ENGINEER IN THE FIELD.

ROUTE, CRACK AND SEAL MODIFIED AREA INCLUDES MAINLINE TRAVEL LANES, SHOULDERS, TURN LANES, AUXILLARY LANES AND TAPER SECTIONS.

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

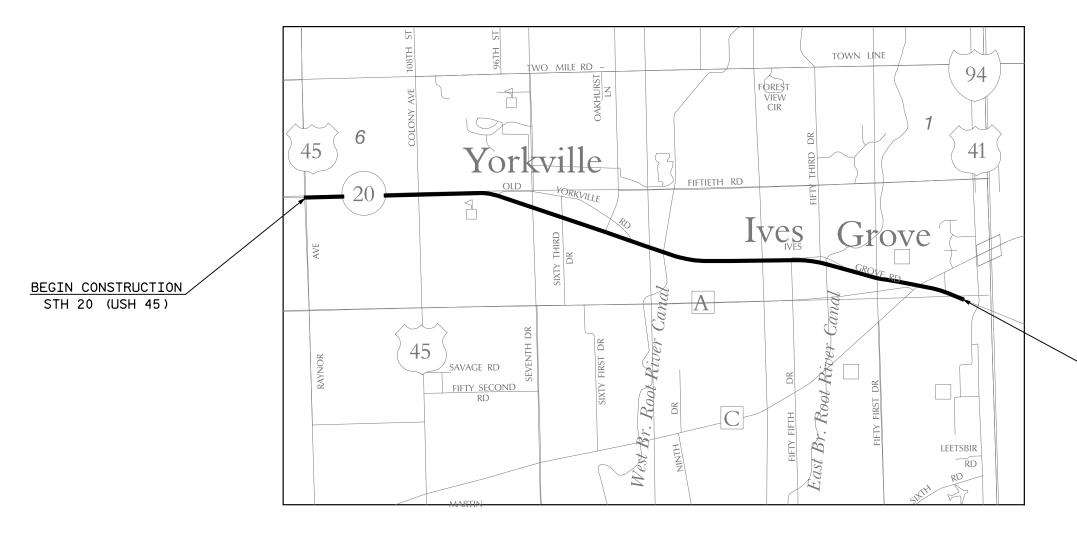
A RUMBLE STRIP RUNS ALONG THE MAJORITY OF THE USH 12 CENTERLINE WITHIN THE PROJECT LIMITS. REPAIR WITH CRACK SEALING ONLY ON THE RUMBLE STRIP. IN AREAS WHERE THERE IS NO RUMBLE STRIP, REPAIR WITH ROUTE AND SEAL WHERE APPROPRIATE.



PROJECT NO: 4890-00-73

PLOT BY : dcaverson

STH 20 RACINE COUNTY



END CONSTRUCTION STH 20 (2500' EAST OF CTH C) (AT PAVEMENT SECTION CHANGE)

4-LANE SECTION: DO NOT SEAL AREAS WHERE CRACKING IS EXTENSIVE TO AVOID LARGE PATCHES OF SEALANT ONLY.

UTILIZE SDD 15C12-5 TRAFFIC CONTROL, FOR LANE CLOSURES (SUITABLE FOR MOVING OPERATIONS)

UTILIZE SDD 15D12-6A TRAFFIC CONTROL, LANE CLOSURE

UTILIZE SDD 15D37-2 TRAFFIC CONTROL, 2-LANE ROUNDABOUT

NET MILES - 5.98



PROJECT NO: 4890-00-73 HWY: VARIOUS HIGHWAYS

COUNTY: WALWORTH

PROJECT OVERVIEW/TRAFFIC CONTROL

SHEET

FILE NAME: E:\Projects\DOT\DOT_SE\4890-00-73_Route and Seal\4890-00-73\DGN_Files\Plansheets\020201_po.dgn

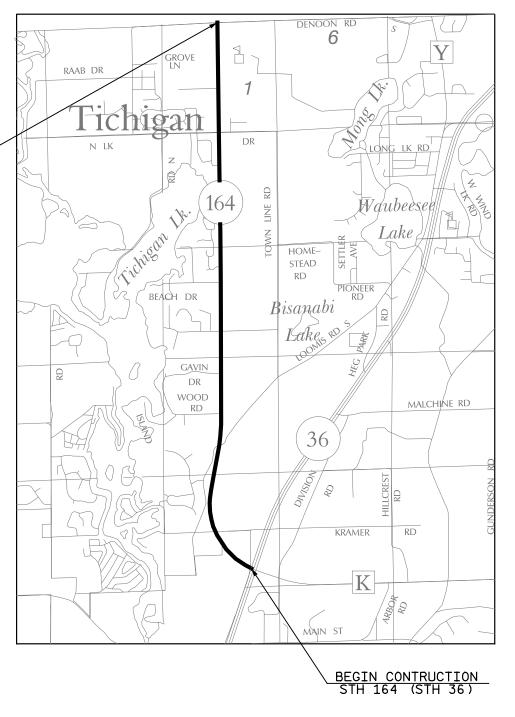
PLOT DATE: 1/31/2017

PLOT BY: dcaverson

PLOT SCALE : -

STH 164 RACINE COUNTY

END CONSTRUCTION
STH 164 (975' N. OF WAUKESHA COUNTY LINE)
(AT PAVEMENT CHANGE)



UTILIZE SDD 15C12-5 TRAFFIC CONTROL, FOR LANE CLOSURES (SUITABLE FOR MOVING

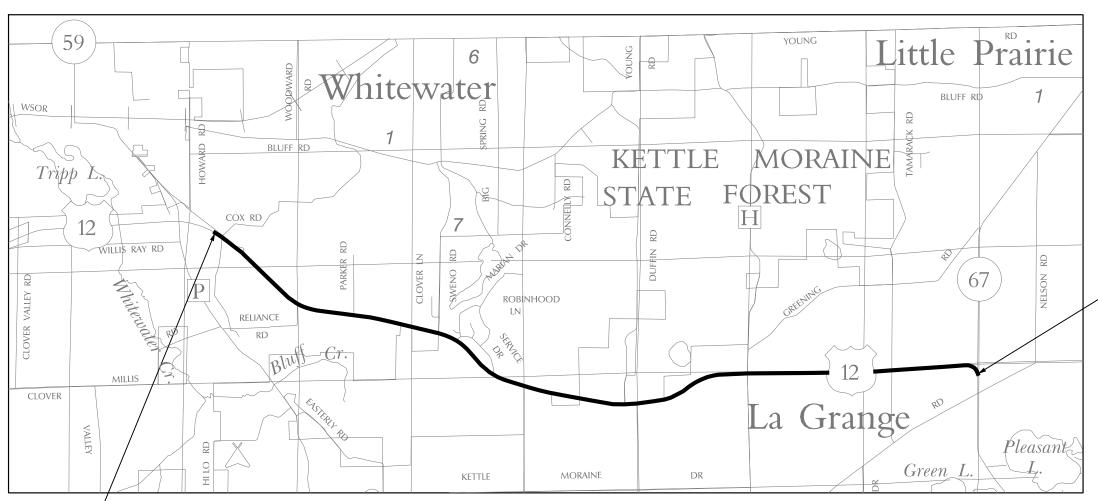
NET MILES - 5.08



WISDOT/CADDS SHEET 42

Ε PROJECT NO: 4890-00-73 HWY: VARIOUS HIGHWAYS COUNTY: RACINE PROJECT OVERVIEW/TRAFFIC CONTROL SHEET PLOT DATE: 1/31/2017 PLOT BY: dcaverson PLOT SCALE: -

USH 12 WALWORTH COUNTY



END CONSTRUCTION
USH 12 (STH 67)
(AT BEGINNING OF GORE)

BEGIN CONSTRUCTION
USH 12 (200' WEST OF COX ROAD)
(AT PAVEMENT CHANGE)

NOTES: UTILIZE SDD 15C12-5 TRAFFIC CONTROL, FOR LANE CLOSURES (SUITABLE FOR MOVING OPERATIONS)

NET MILES - 6.98



PROJECT NO: 4890-00-73 HWY: VARIOUS HIGHWAYS

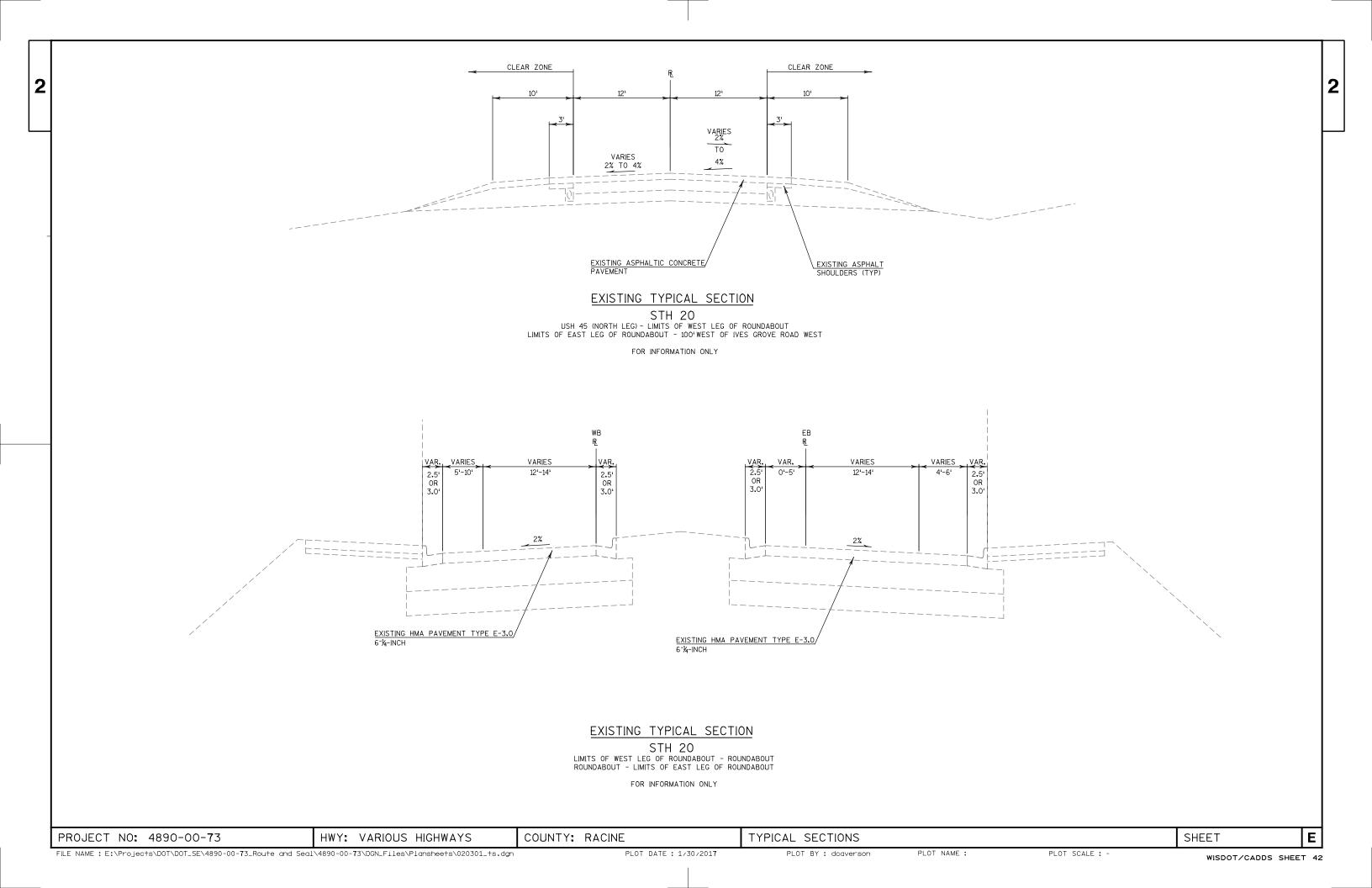
COUNTY: RACINE

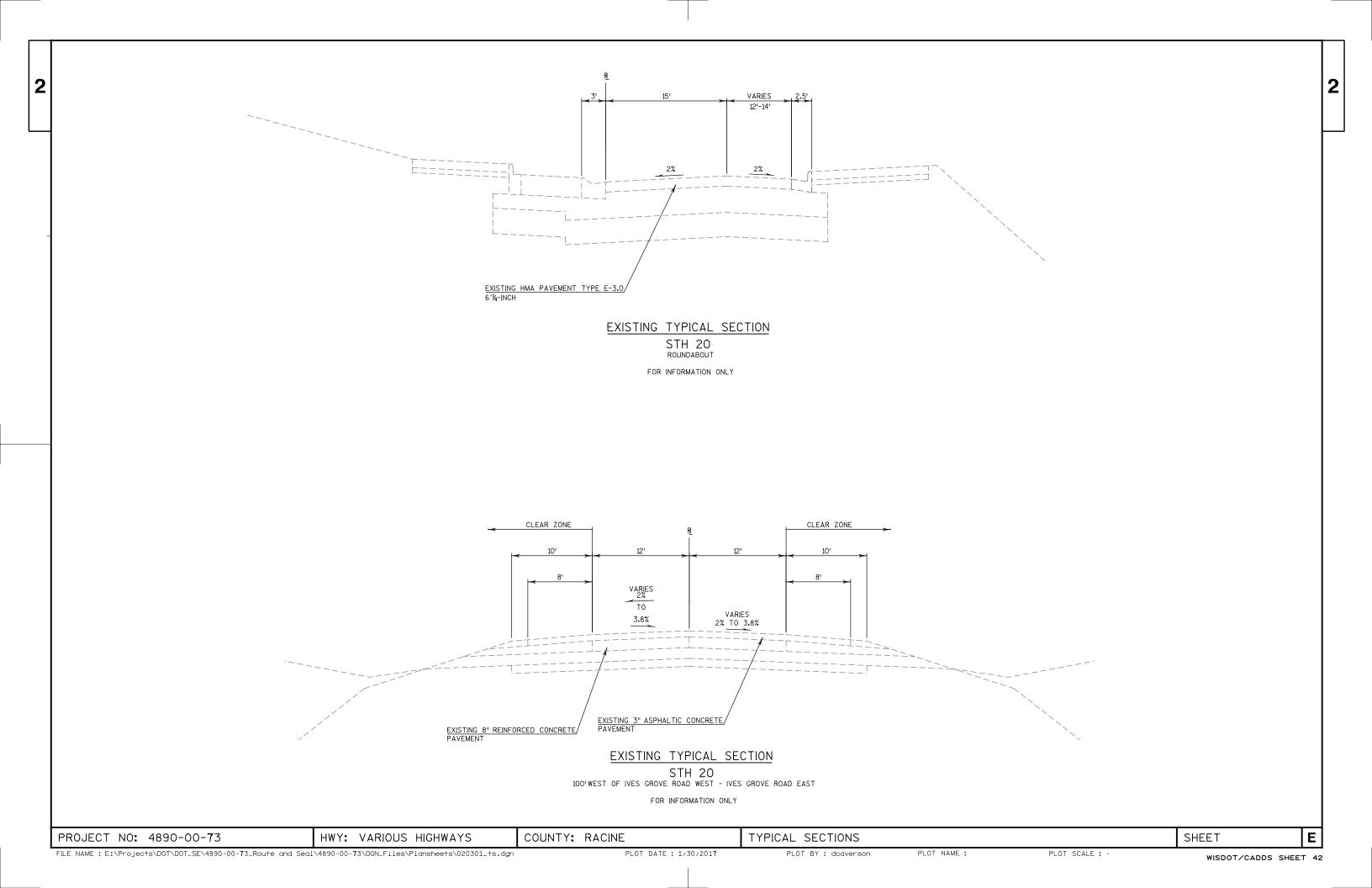
PROJECT OVERVIEW/TRAFFIC CONTROL

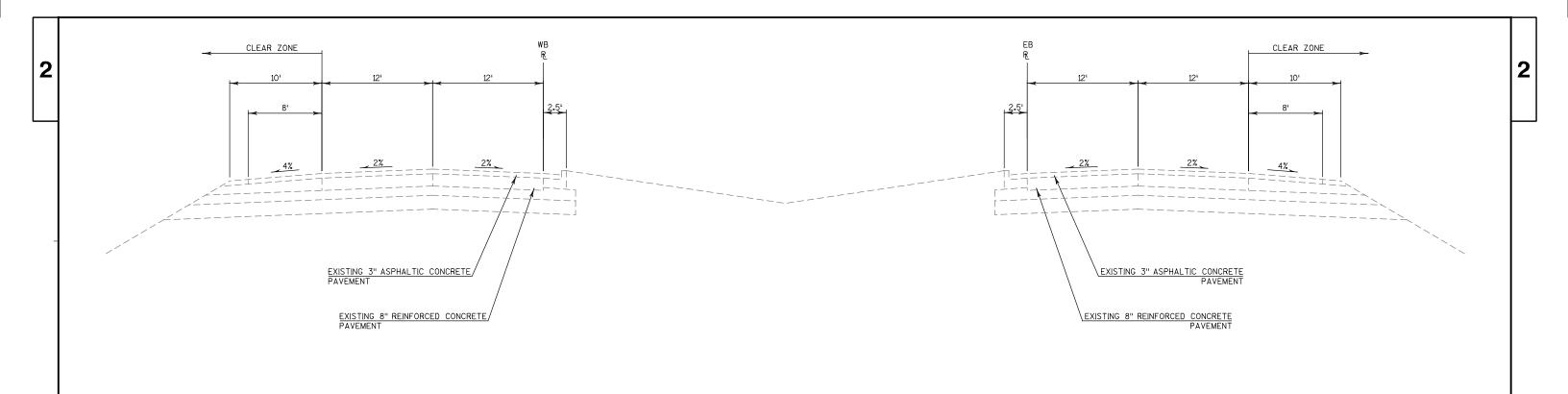
SHEET

JIILL

WISDOT/CADDS SHEET 42





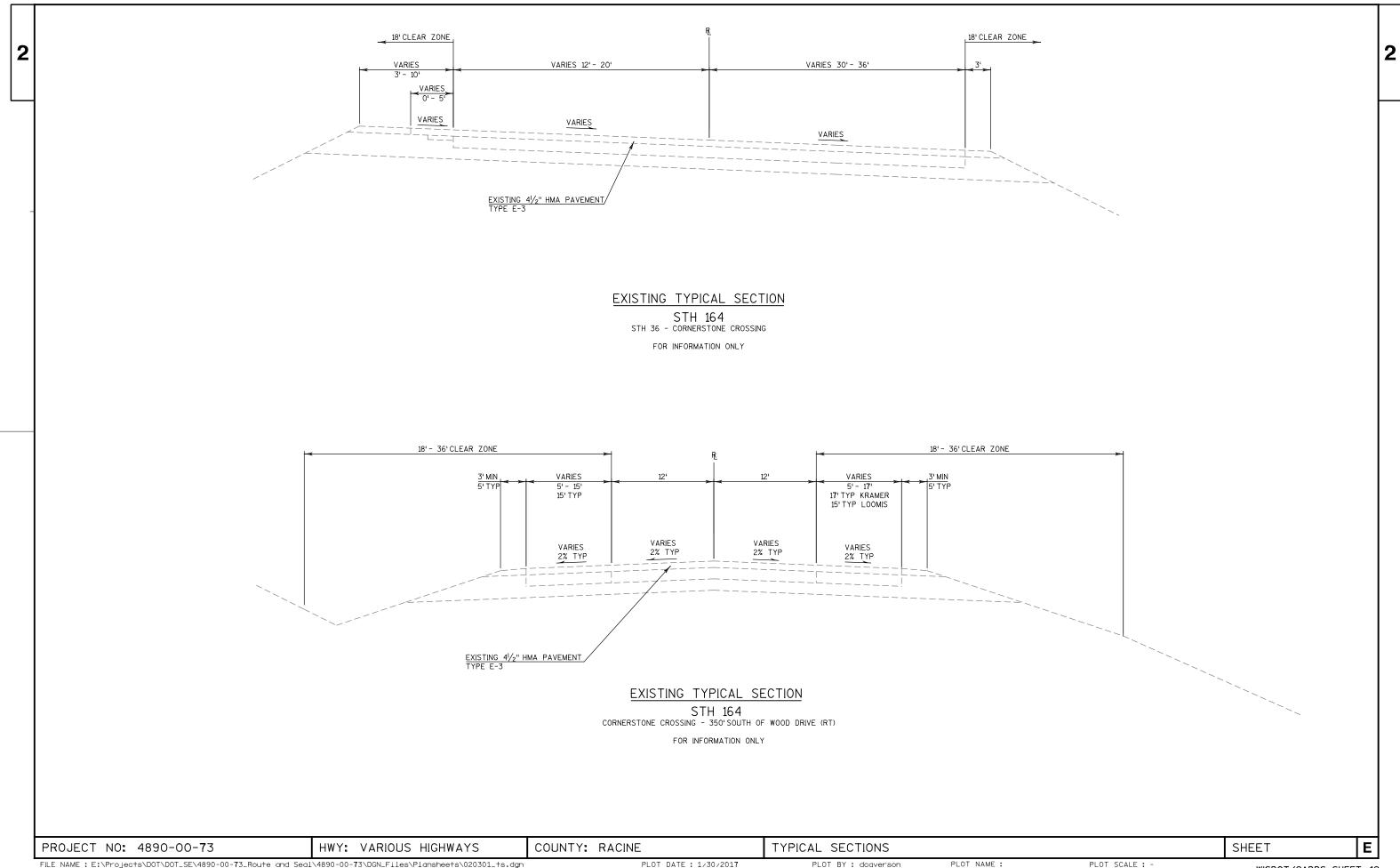


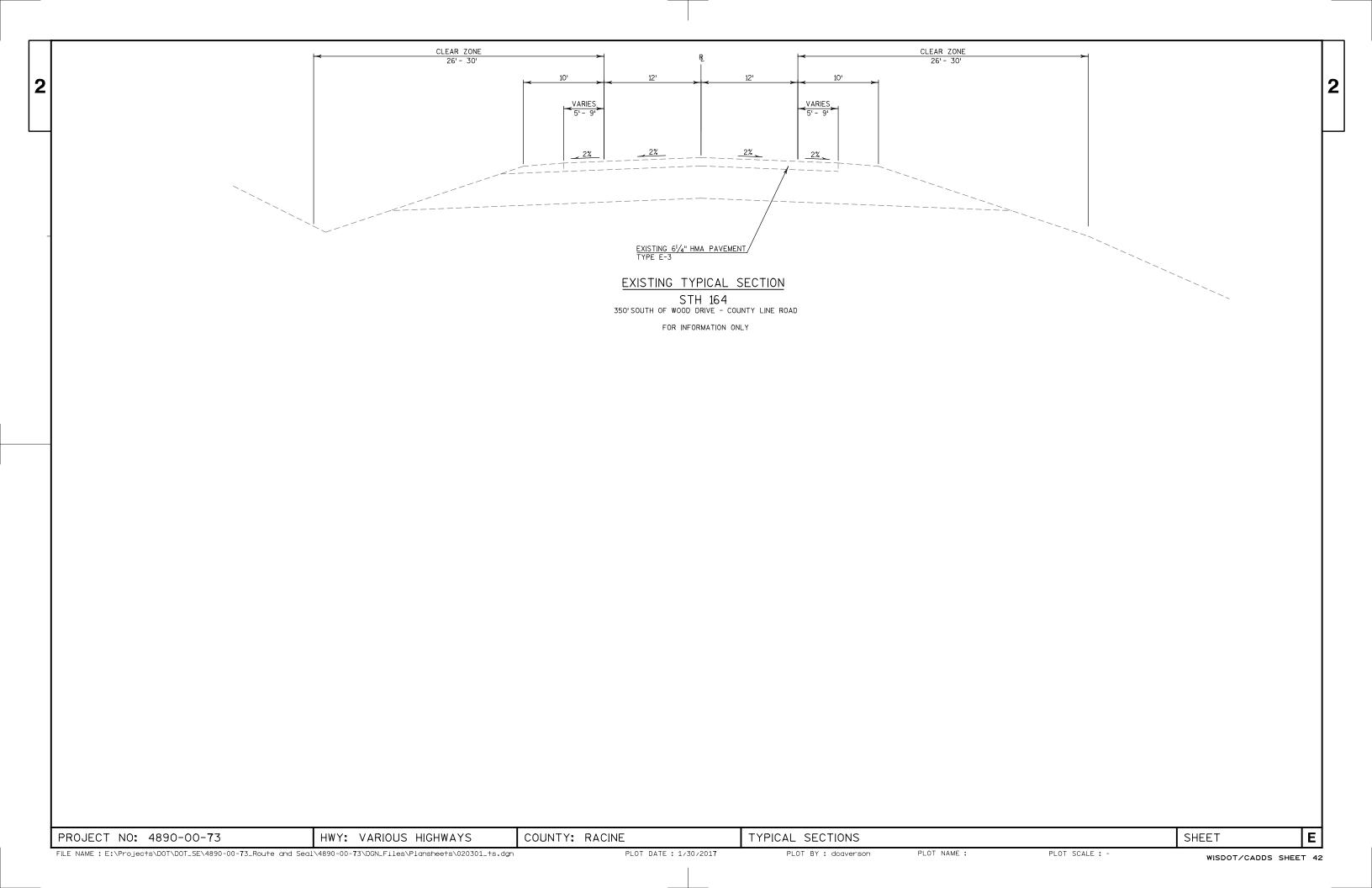
EXISTING TYPICAL SECTION

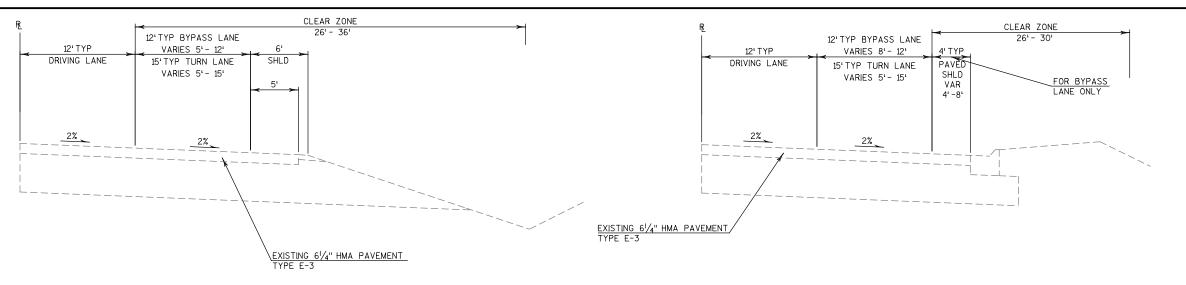
STH 20 IVES GROVE ROAD EAST - 2500'EAST OF CTH C

FOR INFORMATION ONLY

PROJECT NO: 4890-00-73 TYPICAL SECTIONS SHEET E HWY: VARIOUS HIGHWAYS COUNTY: RACINE FILE NAME: E:\Projects\DOT\DOT_SE\4890-00-73_Route and Seal\4890-00-73\DCN_Files\Plansheets\020301_ts.dgn PLOT DATE: 1/30/2017 PLOT BY: dcaverson PLOT NAME : PLOT SCALE : -WISDOT/CADDS SHEET 42







EXISTING TYPICAL SECTION - RURAL TURN/BYPASS LANE

STH 164

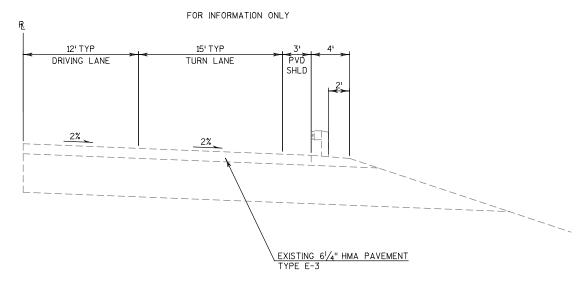
(LEFT IS MIRROR IMAGE OF RIGHT) 400'SOUTH OF WOOD DRIVE - 400'NORTH OF WOOD DRIVE (RT) WOOD DRIVE - 475'NORTH OF WOOD DRIVE (LT) WOOD DRIVE - 475'NORTH OF WOOD DRIVE (LT)
350'SOUTH OF GAWIN DRIVE - 450'NORTH OF GAWIN DRIVE (RT)
GAWIN DRIVE - 100'NORTH OF GAWIN DRIVE (LT)
600'SOUTH OF EAST BAY DRIVE - EAST BAY DRIVE (RT)
EAST BAY DRIVE - 500'NORTH OF EAST BAY DRIVE (LT)
400'SOUTH OF BEACH DRIVE - 1150'NORTH OF BEACH DRIVE (RT) BEACH DRIVE - 400'NORTH OF BEACH DRIVE (LT) SANDY LANE - 400'NORHT OF SANDY LANE (LT) 375'SOUTH OF DORIE LANE - 425'NORTH OF DORIE LANE (RT)

DORIE LANE - 500'NORTH OF DORIE LANE (RT)

450'SOUTH OF GREENHAVEN TERRACE - GREENHAVEN TERRACE (RT)

GREENHAVEN TERRACE - 400'NORTH OF GREENHAVEN TERRACE (LT)

450'NORTH OF GREENHAVEN TERRACE - 560'NORTH OF GREENHAVEN TERRACE (RT) 600' SOUTH OF NORTH LAKE DRIVE - LAKE DRIVE (RT) NORTH LAKE DRIVE - 400'NORTH OF NORTH LAKE DRIVE (RT) 375'SOUTH OF JENSON PARKWAY - 425'NORHT OF JENSON PARKWAY (RT) JENSON PARKWAY - 400'NORTH OF JENSON PARKWAY (LT) 500'SOUTH OF COUNTY LINE ROAD - COUNTY LINE ROAD (RT)



EXISTING TYPICAL SECTION - RURAL RIGHT TURN LANE WITH BEAM GUARD

STH 164

350'SOUTH OF COUNTY LINE ROAD - 100'SOUTH OF COUNTY LINE ROAD

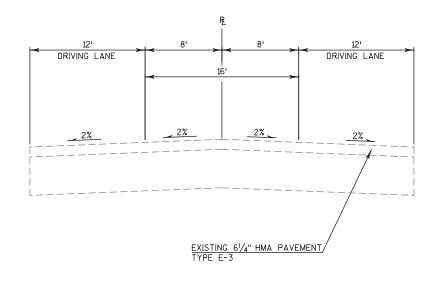
FOR INFORMATION ONLY

EXISTING TYPICAL SECTION - URBAN TURN/BYPASS LANE

STH 164

(LEFT IS MIRROR IMAGE OF RIGHT) DORIE LANE - 400'NORTH OF DORIE LANE (LT)
GREENHAVEN TERRACE - 450'NORTH OF GREENHAVEN TERRACE (RT)
GREENHAVEN TERRACE - 400'NORTH OF GREENHAVEN TERRACE (LT) 175' SOUTH OF NORTH LAKE DRIVE - NORTH LAKE DRIVE (RT)

FOR INFORMATION ONLY



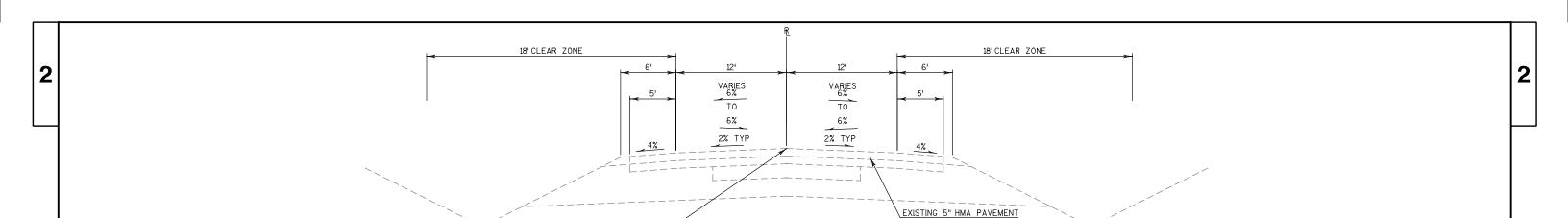
MEDIAN LEFT TURN LANE

STH 164

600'SOUTH OF NORTH LAKE DRIVE - 650'NORTH OF NORTH LAKE DRIVE

FOR INFORMATION ONLY

TYPICAL SECTIONS SHEET Ε PROJECT NO: 4890-00-73 HWY: VARIOUS HIGHWAYS COUNTY: RACINE PLOT NAME :



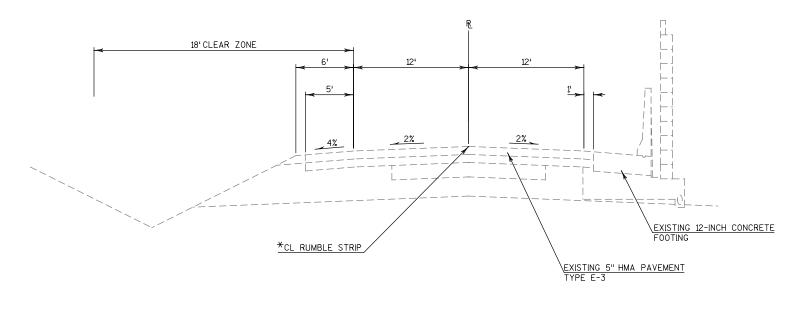
EXISTING TYPICAL SECTION

USH 12

*CL RUMBLE STRIP

200 WEST OF COX ROAD - 400 WEST OF RELIANCE ROAD 630 EAST OF RELIANCE ROAD - 325 WEST OF PARKER ROAD 350 EAST OF PARKER ROAD - 175 WEST OF SWENO ROAD 175'EAST OF SWENO ROAD - 320'WEST OF CTH O
460'EAST OF CTH O - 350'WEST OF DUFFIN ROAD
375'EAST OF DUFFIN ROAD - 275'WEST OF JACKSON ROAD 320'EAST OF JACKSON ROAD - 350'WEST OF JACKSON ROAD - 350'WEST OF CTH H 550'EAST OF CTH H - 510'WEST OF TAMARACK ROAD 20'WEST OF TAMARACK ROAD - 1300'WEST OF STH 67

FOR INFORMATION ONLY



EXISTING TYPICAL SECTION

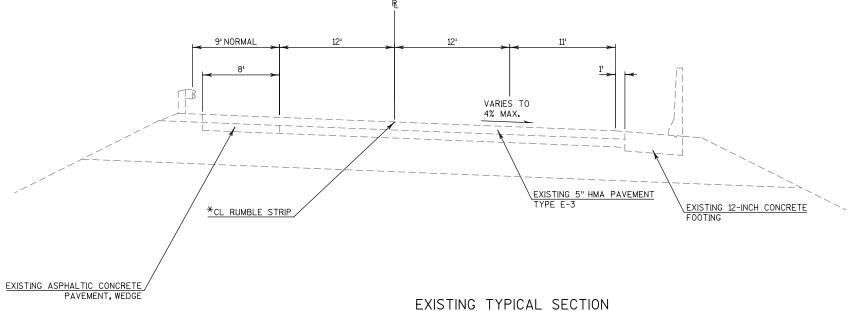
USH 12 510' WEST OF TAMARACK ROAD - 20' WEST OF TAMARACK ROAD (AT ROUND PRAIRIE CEMETARY)

FOR INFORMATION ONLY

THERE IS A RUMBLE STRIP THAT RUNS ALONG THE MAJORITY OF THE USH 12 CENTERLINE WITHIN THE PROJECT LIMITS. REPAIR WITH CRACK SEALING ONLY ON THE RUMBLE STRIP, IN AREAS WHERE THERE IS NO RUMBLE STRIP, REPAIR WITH ROUTE AND SEAL WHERE APPROPRIATE.

COUNTY: WALWORTH TYPICAL SECTIONS Ε PROJECT NO: 4890-00-73 HWY: VARIOUS HIGHWAYS SHEET FILE NAME: E:\Projects\DOT\DOT\SE\4890-00-73_Route and Seal\4890-00-73\DGN_Files\Plansheets\020301_ts.dgn PLOT DATE: 1/30/2017 PLOT NAME : PLOT SCALE : -





USH 12

WITH TRUCK CLIMING LANE AND BEAMGUARD
1050'EAST OF SWENO ROAD - 1915'EAST OF SWENO ROAD

FOR INFORMATION ONLY

*NOTE:
THERE IS A RUMBLE STRIP THAT RUNS ALONG THE MAJORITY
OF THE USH 12 CENTERLINE WITHIN THE PROJECT LIMITS,
REPAIR WITH CRACK SEALING ONLY ON THE RUMBLE STRIP, IN
AREAS WHERE THERE IS NO RUMBLE STRIP, REPAIR WITH ROUTE
AND SEAL WHERE APPROPRIATE.

SHEET

PROJECT NO: 4890-00-73 HWY: VARIOUS HIGHWAYS

PLOT DATE: 1/30/2017

COUNTY: WALWORTH

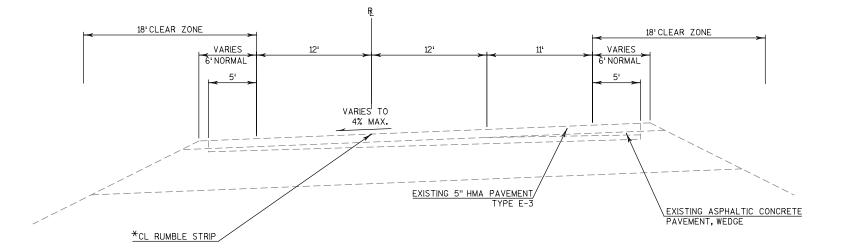
PLOT BY: dcaverson

PLOT NAME :

TYPICAL SECTIONS

PLOT SCALE : -

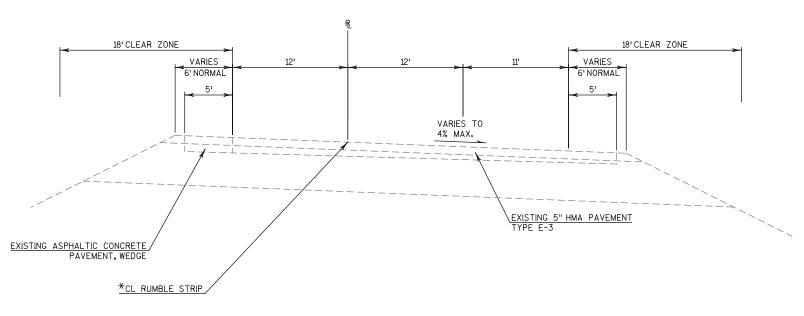
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

USH 12 WITH TRUCK CLIMBING LANE
1915'EAST OF SWENO ROAD - 850'WEST OF CTH O

FOR INFORMATION ONLY



EXISTING TYPICAL SECTION

USH 12

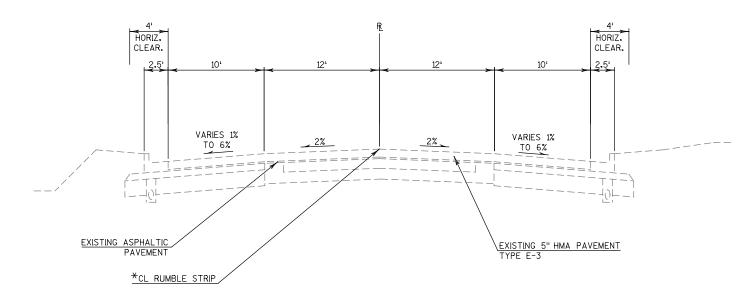
WITH TRUCK CLIMBING LANE 175' WEST OF SWENO ROAD - 1050 EAST OF SWENO ROAD

FOR INFORMATION ONLY

THERE IS A RUMBLE STRIP THAT RUNS ALONG THE MAJORITY OF THE USH 12 CENTERLINE WITHIN THE PROJECT LIMITS, REPAIR WITH CRACK SEALING ONLY ON THE RUMBLE STRIP, IN AREAS WHERE THERE IS NO RUMBLE STRIP, REPAIR WITH ROUTE AND SEAL WHERE APPROPRIATE.

COUNTY: WALWORTH TYPICAL SECTIONS Ε PROJECT NO: 4890-00-73 HWY: VARIOUS HIGHWAYS SHEET PLOT DATE: 1/30/2017 PLOT BY: dcaverson

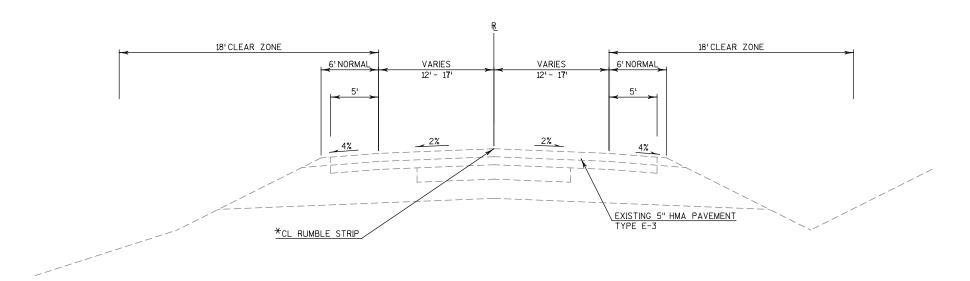




EXISTING TYPICAL SECTION

USH 12
200'WEST OF CTH H - CTH H (LT)
350'WEST OF CTH H - 550'EAST OF CTH H (RT)

FOR INFORMATION ONLY



EXISTING TYPICAL SECTION

USH 12

1300' WEST OF STH 67 - 920' WEST OF STH 67 275' WEST OF STH 67 - STH 67

FOR INFORMATION ONLY

TYPICAL SECTIONS

*NOTE:

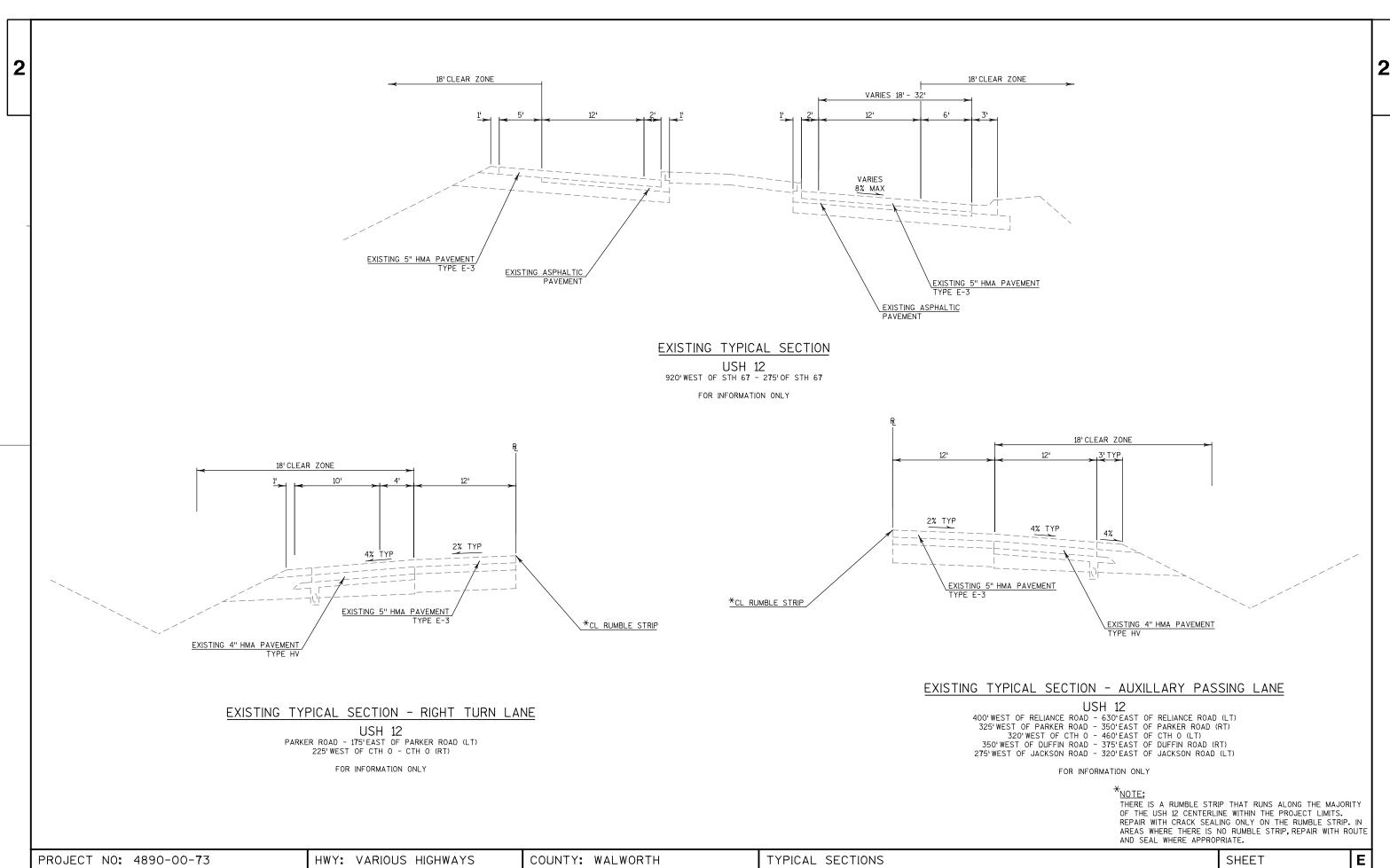
THERE IS A RUMBLE STRIP THAT RUNS ALONG THE MAJORITY INCRE IS A NUMBLE SIMP THAT RUNS ALONG THE MAJORITY OF THE USH 12 CENTERLINE WITHIN THE PROJECT LIMITS. REPAIR WITH CRACK SEALING ONLY ON THE RUMBLE STRIP, IN AREAS WHERE THERE IS NO RUMBLE STRIP, REPAIR WITH ROUTE AND SEAL WHERE APPROPRIATE.

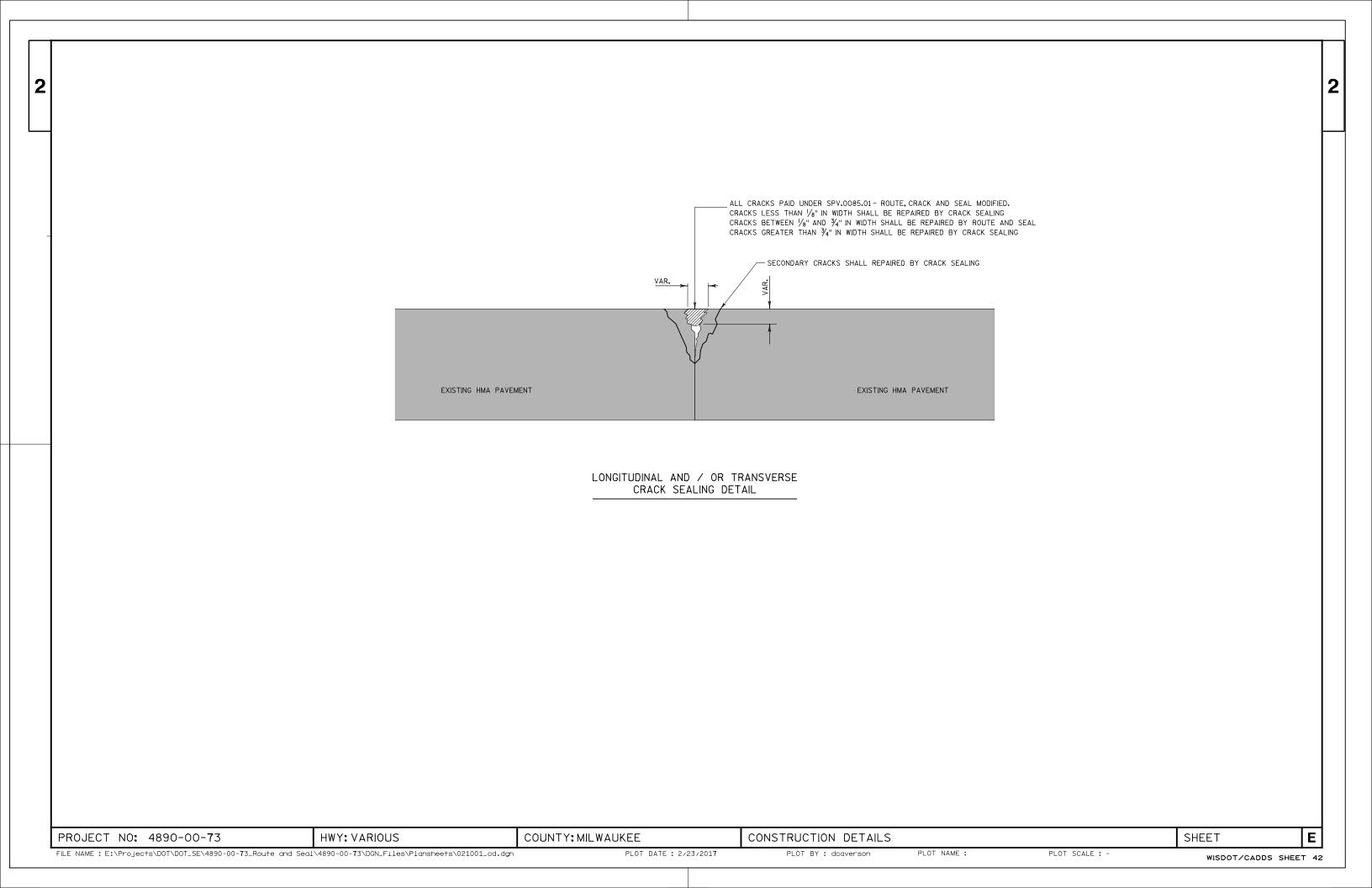
HWY: VARIOUS HIGHWAYS PROJECT NO: 4890-00-73

COUNTY: WALWORTH

PLOT NAME : PLOT BY: dcaverson

SHEET





Estimate Of Quantities

Page	1
------	---

Line	Item	Item Description	Unit	Total	Qty
0010	213.0100	Finishing Roadway (project) 04. 4890-00-73	EACH	1.000	1.000
0020	619.1000	Mobilization	EACH	1.000	1.000
0030	624.0100	Water	MGAL	30.000	30.000
0040	643.0100	Traffic Control (project) 01. 4890-00-73	EACH	1.000	1.000
0050	643.0300	Traffic Control Drums	DAY	628.000	628.000
0060	643.0420	Traffic Control Barricades Type III	DAY	35.000	35.000
0070	643.0705	Traffic Control Warning Lights Type A	DAY	45.000	45.000
0800	643.0715	Traffic Control Warning Lights Type C	DAY	98.000	98.000
0090	643.0800	Traffic Control Arrow Boards	DAY	15.000	15.000
0100	643.0900	Traffic Control Signs	DAY	738.000	738.000
0110	643.1050	Traffic Control Signs PCMS	DAY	58.000	58.000
0120	646.0106	Pavement Marking Epoxy 4-Inch	LF	141,054.000	141,054.000
0130	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	78,908.000	78,908.000
0140	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	3,115.000	3,115.000
0150	SPV.0085	Special 01. Route, Crack and Seal Modified	LB	134,428.000	134,428.000

4890-00-73

SHEET NO:

LIMIT		ШМІТ	HIGHWAY	, NUMBER OF LANES	ROUTE AND SEAL LENGTH (LF)	SPV.0085.01 ROUTE, CRACK AND SEAL MODIFIED (LB) ANTICIPATED ROUTE AND SEAL	CRACK SEALING LENGTH (LF)	SPV.0085.01 ROUTE, CRACK AND SEAL MODIFIED (LB) ANTICIPATED CRACK SEALING	624.0100 WATER (MGAL)
LICH AT N. LEC		DAD M/FCT LINAITC	CTU 20	2	7.076	2.456	F 227	4 725	
USH 45 N. LEG RAB WEST LIMITS	-	RAB WEST LIMITS	STH 20	2	7,976	3,456	5,337	1,735	
	-	RAB EAST LIMITS	STH 20	2	2,020	875	1,713	557	
RAB EAST LIMITS	-	OLD YORKVILLE ROAD WEST		2	8,380	3,631	1,350	439	
OLD YORKVILLE ROAD WEST	-	63RD DRIVE	STH 20	2	5,040	2,184	480	156	
63RD DRIVE	-	CTH U	STH 20	2	3,340	1,447	630	205	
CTH U	-	OLD YORKVILLE ROAD EAST	STH 20	2	1,990	862	360	117	
OLD YORKVILLE ROAD EAST	-	IVES GROVE ROAD WEST	STH 20	2	27,450	11,895	16,890	5,489	
IVES GROVE ROAD WEST	-	2500' EAST OF CTH C	STH 20	4	39,624	17,170	14,443	4,694	
		-TOTAL	STH 20			41,522		13,391	
		BUTED	STH 20			10,381		4,017	10
STH	20 T	OTAL	STH 20			51,903		17,408	
STH 36	_	KRAMER DRIVE	STH 164	2 W/TURN LANES	2,802	1,214	372	121	
KRAMER DRIVE	-	S. LOOMIS ROAD	STH 164	2	4,315	1,870	170	55	
S. LOOMIS ROAD	_	EAST RIVER BAY DR.	STH 164	2	5,707	2,473	238	77	
EAST RIVER BAY DR.	_	SANDY LANE	STH 164	2	3,132	1,357	238	77	
SANDY LANE	_	DORIE LANE	STH 164	2	2,237	969	170	55	
DORIE LANE	_	GREENHAVEN TERRACE	STH 164	2	2,714	1,176	272	88	
GREENHAVEN TERRACE	_	SOUTH OF N. LAKE DRIVE	STH 164	2	1,510	654	238	77	
SOUTH OF N. LAKE DRIVE	_	NORTH OF N. LAKE DRIVE		2 W/TURN LANES	412	179	362	118	
NORTH OF N. LAKE DRIVE	_	JENSON PKWY	STH 164	2	2,052	889	136	44	
JENSON PKWY	_	675' N. OF COUNTY LINE DR.		2	3,308	1,433	272	88	
	4 SUE	B-TOTAL	STH 164	<u>=</u>	0,000	12,215		802	
		BUTED	STH 164			3,054		241	10
		OTAL	STH 164			15,269		1,043	
200' WEST OF COX RD.	-	RELIANCE ROAD	USH 12	2	0	0	11,744	3,817	
RELIANCE ROAD	-	PARKER ROAD	USH 12	2	0	0	7,966	2,589	
PARKER ROAD	-	SWENO ROAD	USH 12	2	0	0	12,114	3,937	
SWENO ROAD	-	CTH O	USH 12	2	528	229	14,780	4,804	
CTH O	-	JACKSON ROAD	USH 12	2	1,584	686	14,986	4,870	
JACKSON ROAD	-	CTH H	USH 12	2	2,112	915	12,470	4,053	
СТН Н	-	TAMARACK ROAD	USH 12	2	2,112	915	18,500	6,013	
TAMARACK ROAD	-	START OF 2 LN ROAD	USH 12	2	0	0	10,406	3,382	
START OF 2 LN ROAD	-	STH 67	USH 12	2	0	0	4,426	1,438	
		-TOTAL	USH 12			2,746		34,902	
		BUTED	USH 12			686		10,471	10
USH	12 T	OTAL	USH 12			3,432		45,373	
TOTALS					130,345	70,604	151,063	63,824	30
TOTAL ROUTE, CRACK AND SI	AL				•		134,428	•	
		/ARIOUS		SE REGION W	'IDE	MISCELL		QUANTITIES	•

PROJECT NUMBER: 4890-00-73

TRAFFIC CONTROL

					LANES BEING	PROJECT LENGTH	APPROX.	643.0300 TRAFFIC CONTROL DRUMS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	TRAFFIC	643.0900 TRAFFIC CONTROL SIGNS	TRAFFIC
LIMIT		LIMIT	HIGHWAY	OPERATIONS	CLOSED	(LF)	DAYS CLOSED	(DAYS)	(DAY)	(DAY)	(DAY)	(DAY)	(DAY)	(DAY)
USH 45 N. LEG RAB WEST LIMITS	-	RAB WEST LIMITS RAB EAST LIMITS	STH 20 STH 20	FLAGGING OPERATIONS 2-LANE ROUNDABOUT	- 1		2 2	 154	 4	 	 	 	26 56	4 4
RAB EAST LIMITS	-	IVES GROVE ROAD WEST	STH 20	FLAGGING OPERATIONS	-	31,574	4						88	8
IVES GROVE ROAD WEST	-	2500' EAST OF CTH C	STH 20 EB	LANE CLOSURE	1		3	174	12	18	39	6	39	6
IVES GROVE ROAD WEST	-	2500' EAST OF CTH C	STH 20 WB	LANE CLOSURE	1		3	174	12	18	39	6	39	6
STH 36	-	675' N. OF COUNTY LINE DR.	STH 164	FLAGGING OPERATIONS	-	26,822	3						126	6
200' WEST OF COX RD.	-	STH 67	USH 12	FLAGGING OPERATIONS	-	36,854	6						216	12
SUB-TOTAL							23	502	28	36	78	12	590	46
UNDISTRIBUTED							6	126	7	9	20	3	148	12
TOTALS				_			29	628	35	45	98	15	738	58

PROJECT NUMBER: 4890-00-73

3

PAVEMENT MARKING

				646.0106	646.0106	646.2304.S	646.2304.S	646.2304.S	646.2308.S
				PAVEMENT MARKING	PAVEMENT MARKING	PAVEMENT MARKING	PAVEMENT MARKING	PAVEMENT MARKING	PAVEMENT MARKING
				EPOXY 4-INCH	EPOXY 4-INCH	GROOVED WET REFLECTIVE	GROOVED WET REFLECTIVE	GROOVED WET REFLECTIVE	GROOVED WET REFLECTIVE
			NUMBER	(SOLID YELLOW)	(DASHED YELLOW)	EPOXY	EPOXY	EPOXY	EPOXY
LIMIT	LIMIT	HIGHWAY	Y OF			4-INCH	4-INCH	4-INCH	8-INCH
			LANES			(SOLID WHITE)	(DASHED WHITE - 12.5' LINE)	(DASHED WHITE - 3' LINE)	(SOLID WHITE)
_				LF	LF	LF	LF	LF	LF
USH 45 N. LEG	- IVES GROVE ROAD WEST	STH 20	2	20,588	4,345	49,973	442	74	1,122
VES GROVE ROAD WEST	- 2500' EAST OF CTH C	STH 20	4	9,415		10,100	2,537	-	1,370
STH 36	- 675' N. OF COUNTY LINE DR	. STH 164	2	27,039	4,759				
200' WEST OF COX RD.	- STH 67	USH 12	2	41,311	5,386				
SUB-TOTAL				98,353	14,490	60,073	2,979	74	2,492
UNDISTRIBUTED				24,588	3,623	15,018	745	19	623
TOTALS				143	1,054		78,908		3,115

PROJECT NUMBER: 4890-00-73 HWY: VARIOUS COUNTY: SE REGION WIDE MISCELLANEOUS QUANTITIES SHEET NO: E

Standard Detail Drawing List

15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-17A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C08-17C	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-06	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15C35-01B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-01C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D37-02	TRAFFIC CONTROL 2-LANE ROUNDAROUT

6

GENERAL NOTES

6

Ö

D

15

C

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

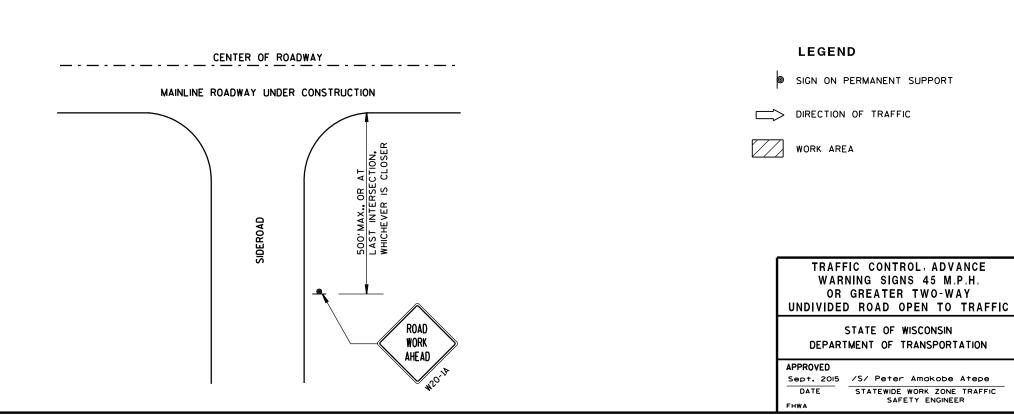
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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.

- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



6

4

SAFETY ENGINEER

GENERAL NOTES

6

S

D

D

15

C

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

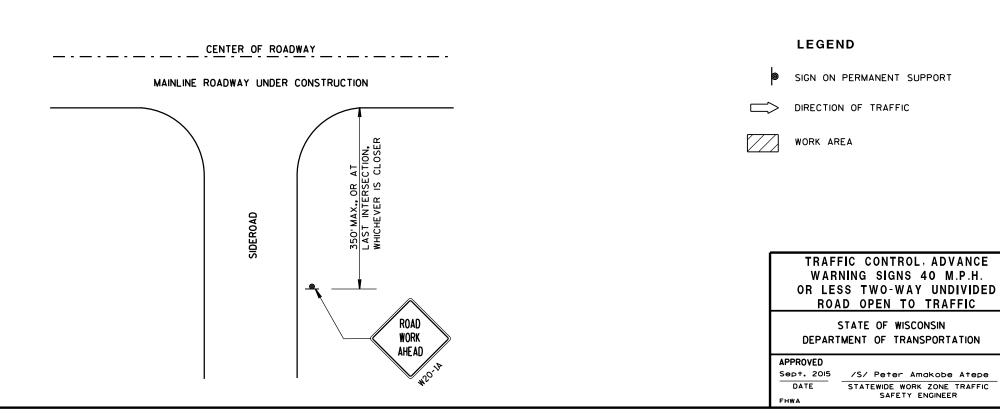
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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.

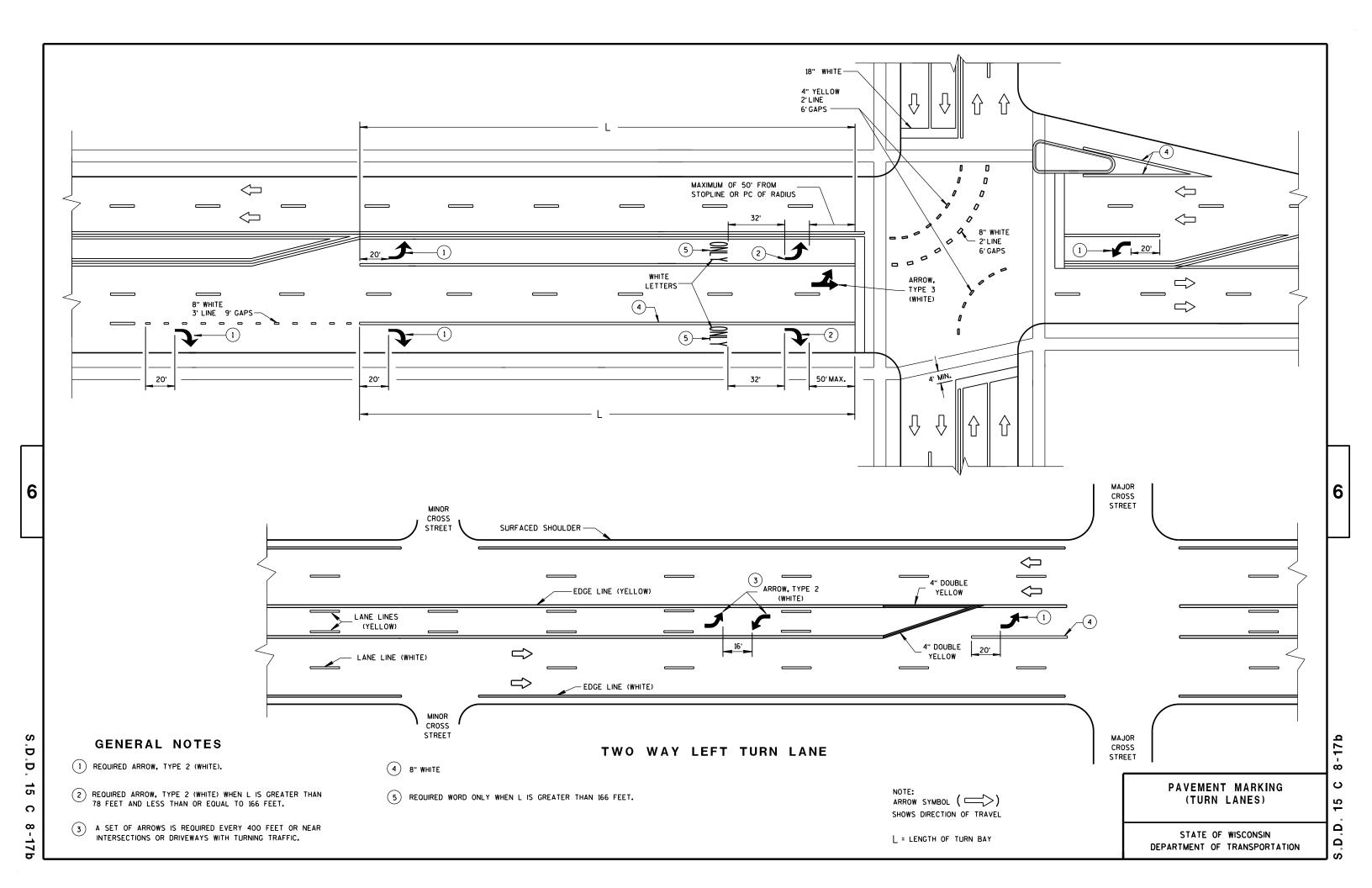


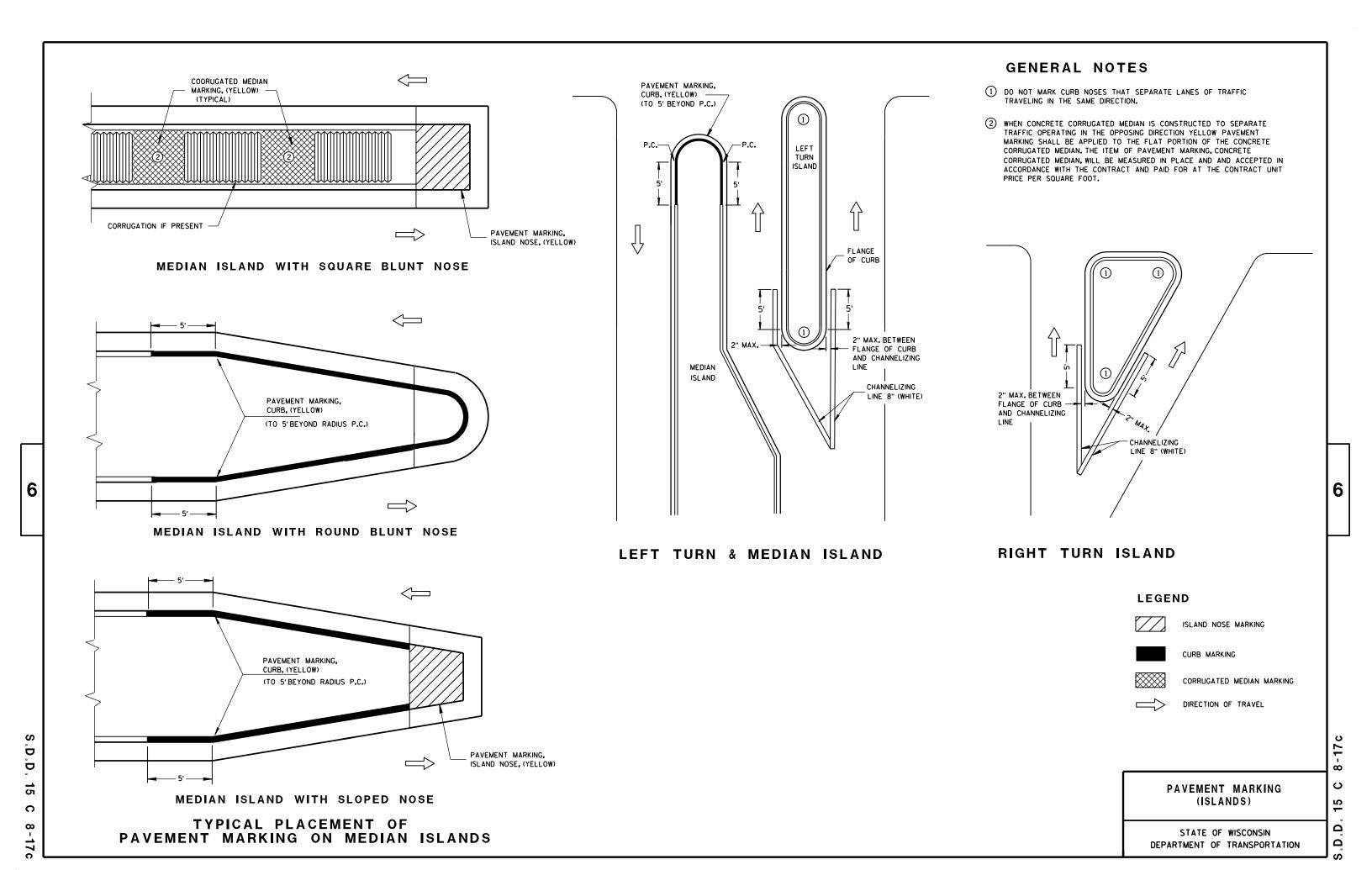
6

5-

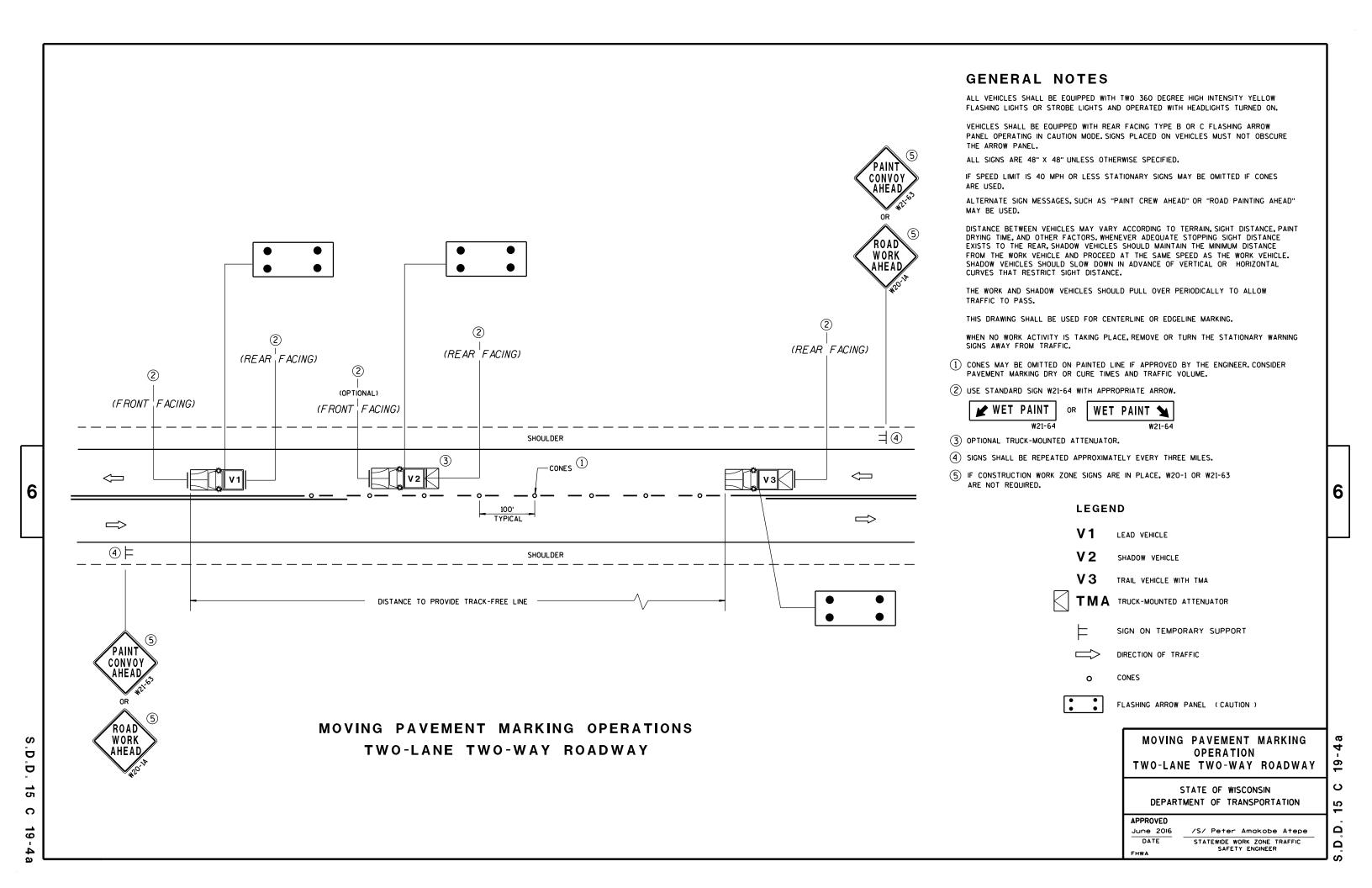
Ω

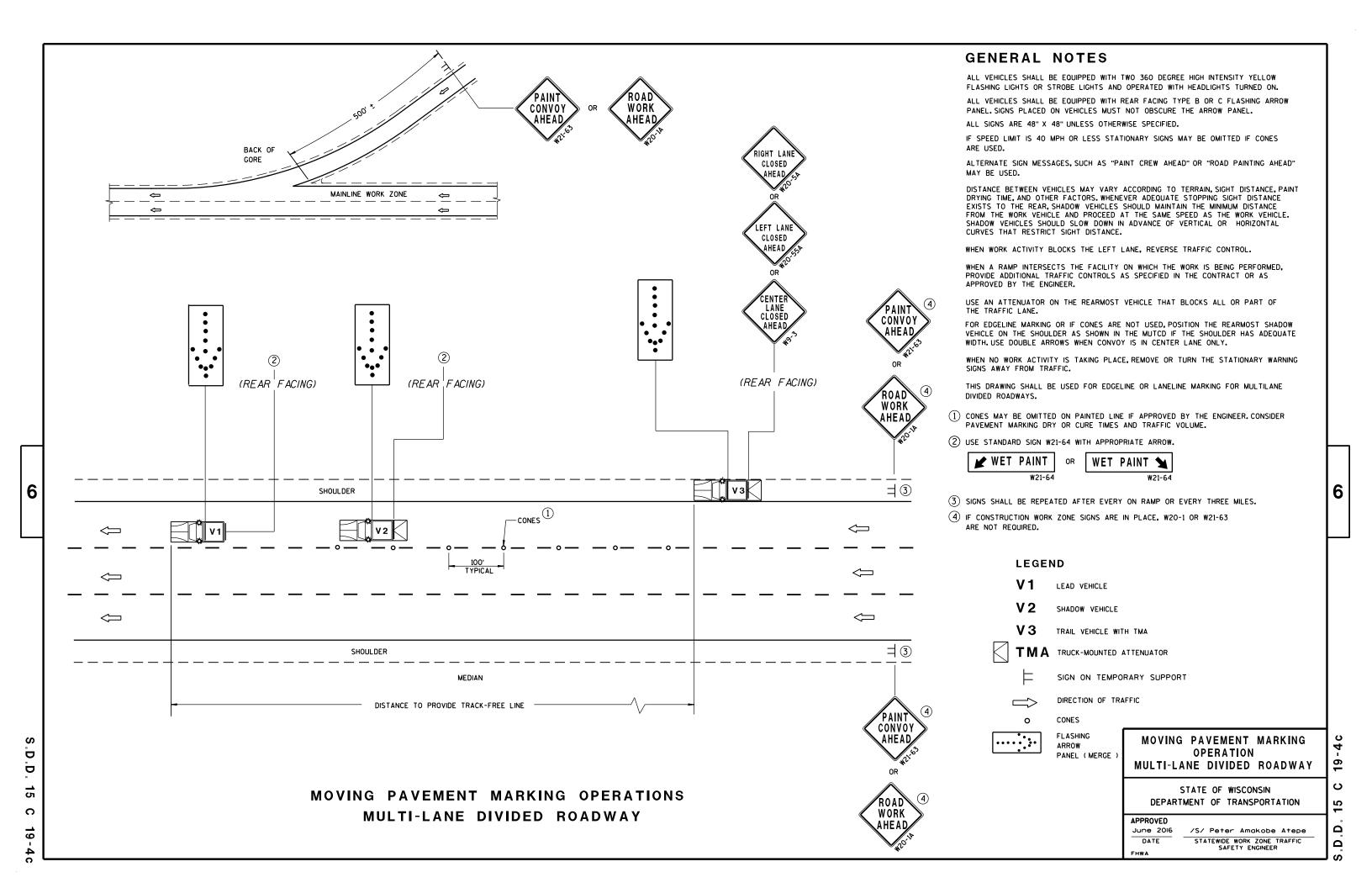


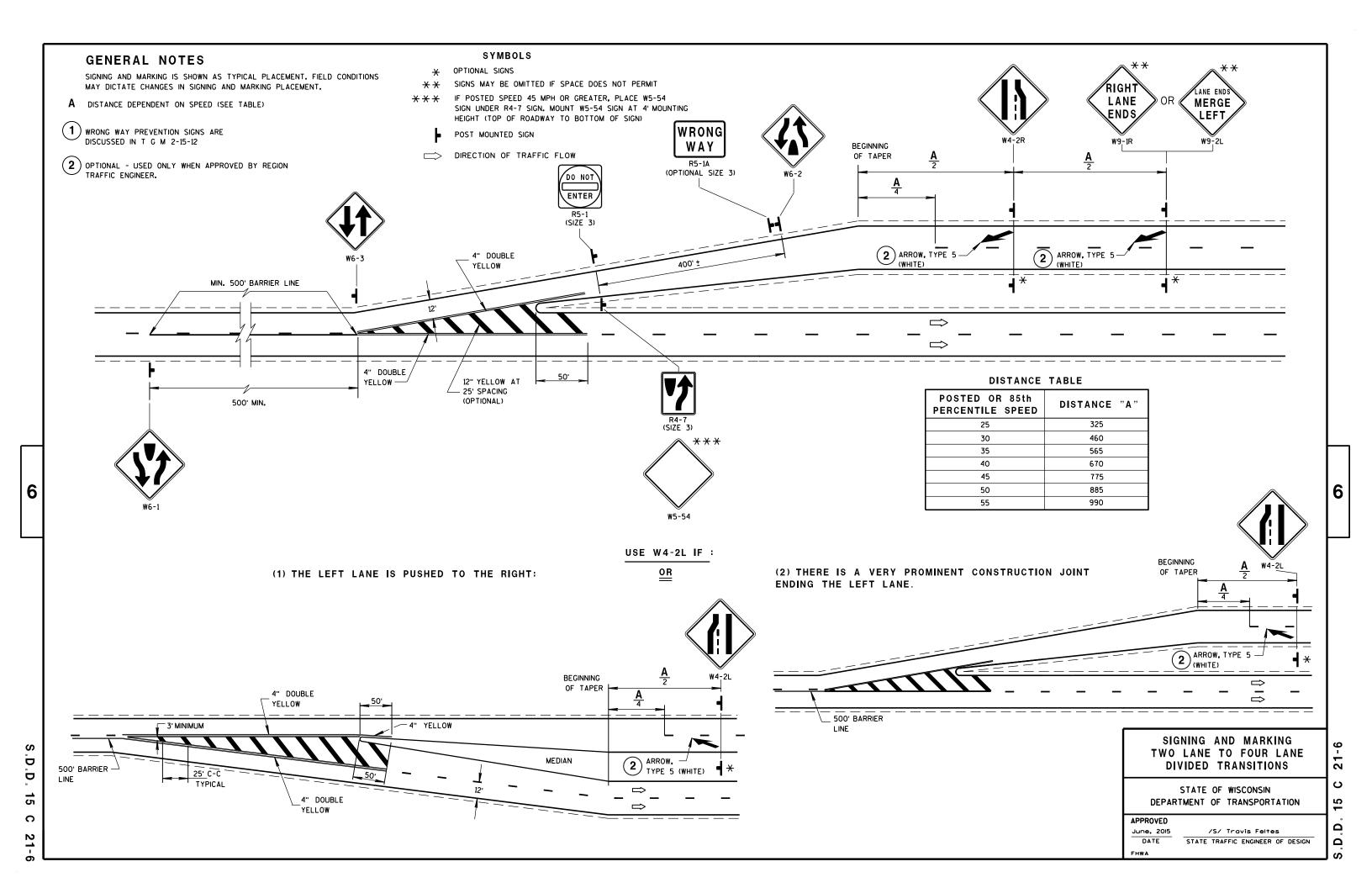












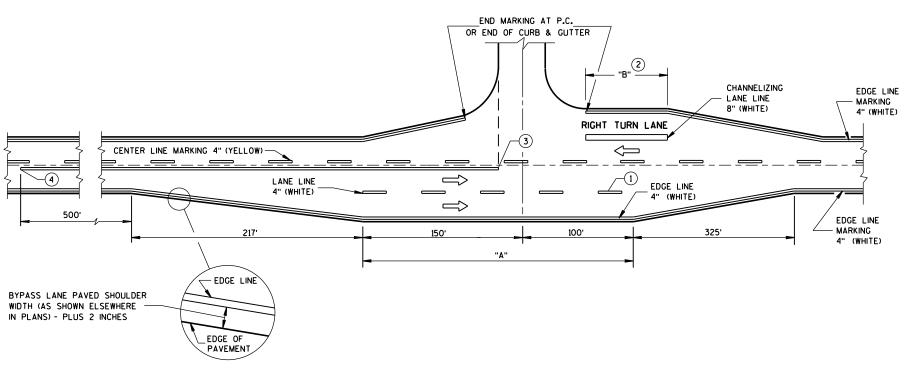
MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

- 1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- 2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- (3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- (4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (>>) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

6

D Ö

15

C

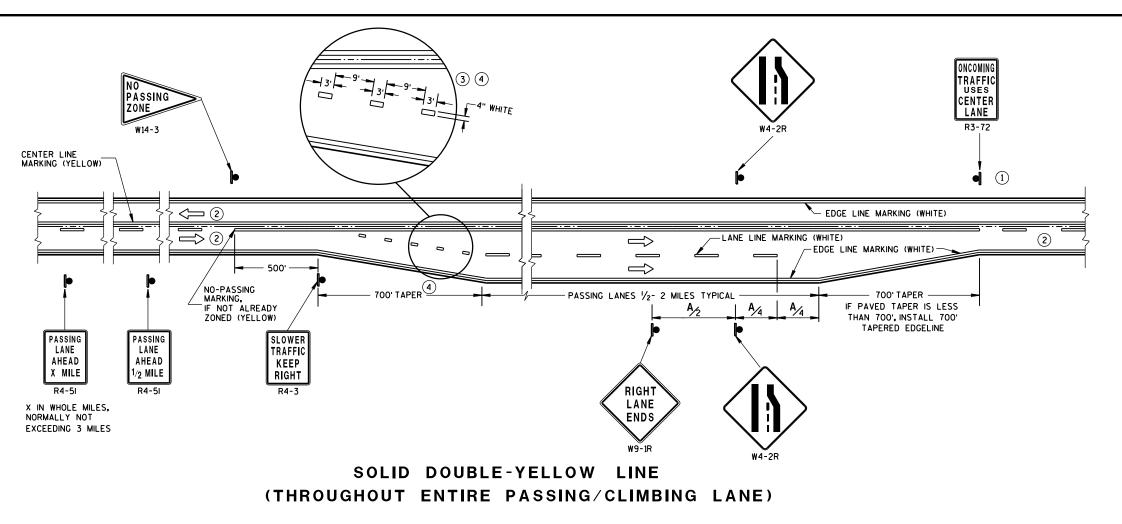
35-1a

ပ 15 Ω

5-1a

က

Ω



6

Ö

D

15

C

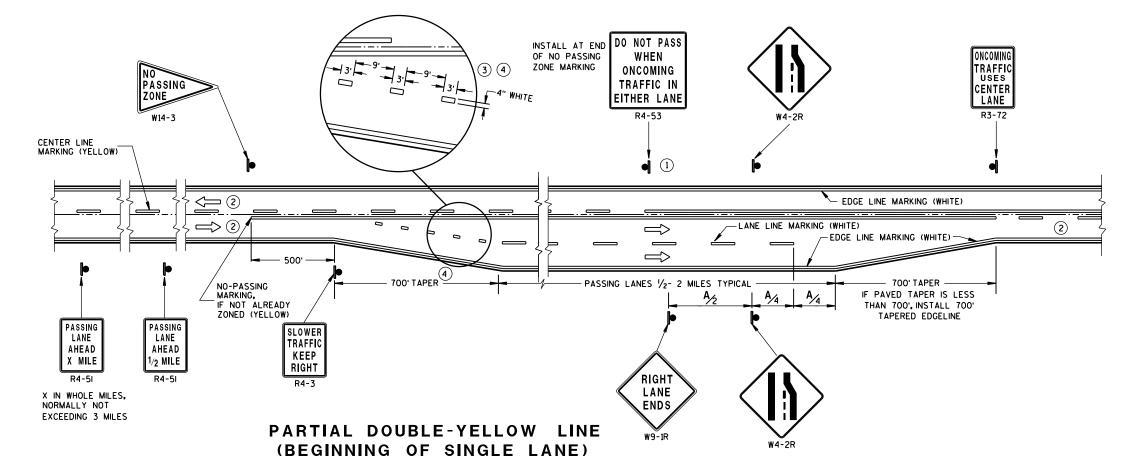
GENERAL NOTES

- $\bigcirc{1}$ Sign shall be repeated at 1 mile increments or at the discretion of the regional traffic engineer.
- (2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (>>) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



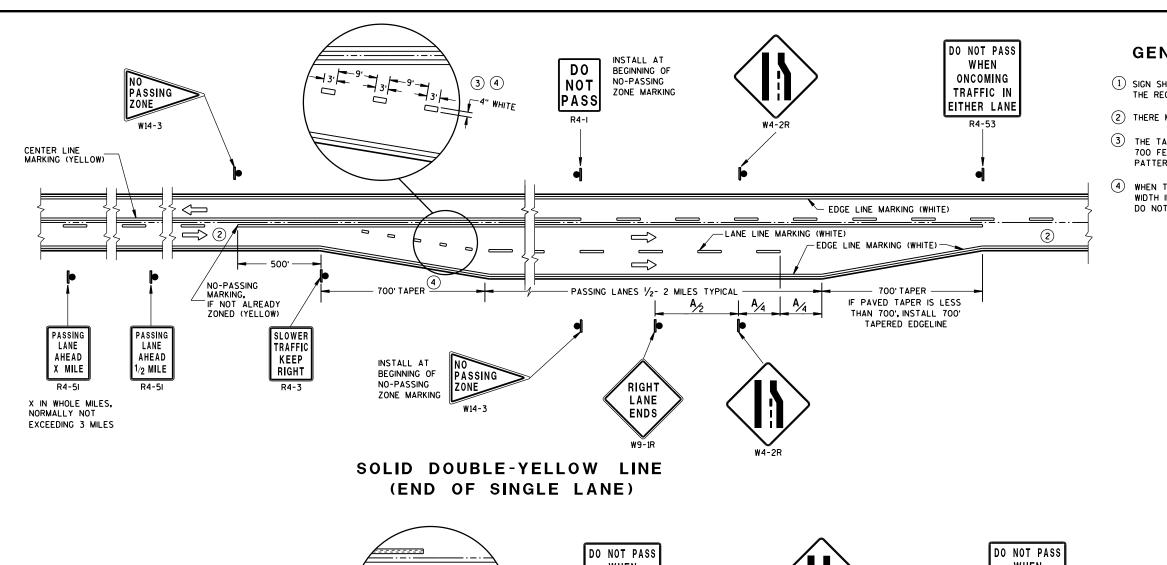
PAVEMENT MARKING & SIGNING
(CLIMBING LANE &
PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

35-1b

.D.D. 15 C 3



6

D

Ö

15

C

35

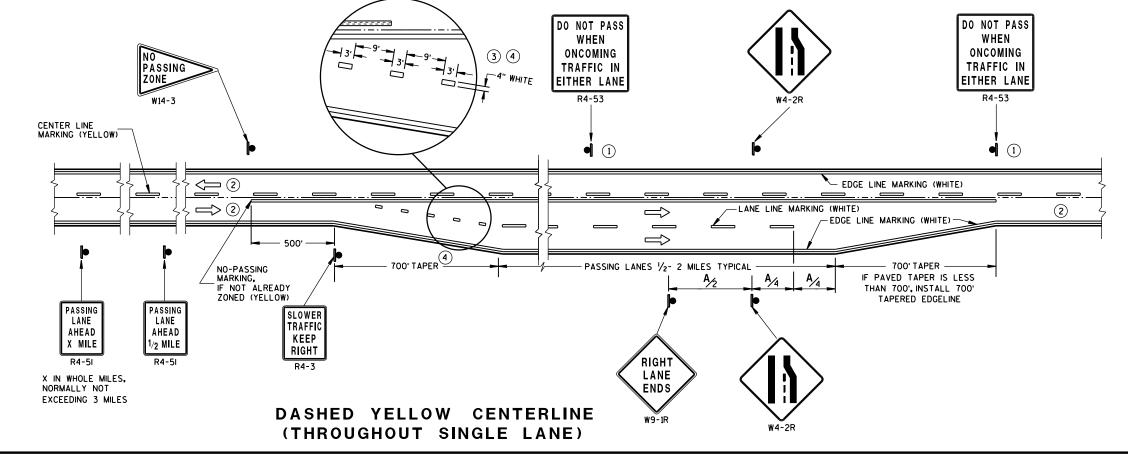
GENERAL NOTES

- 1 SIGN SHALL BE REPEATED AT ONE MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- (2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



PAVEMENT MARKING & SIGNING
(CLIMBING LANE &
PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2016

DATE

STATE SIGNING AND MARKING ENGINEER

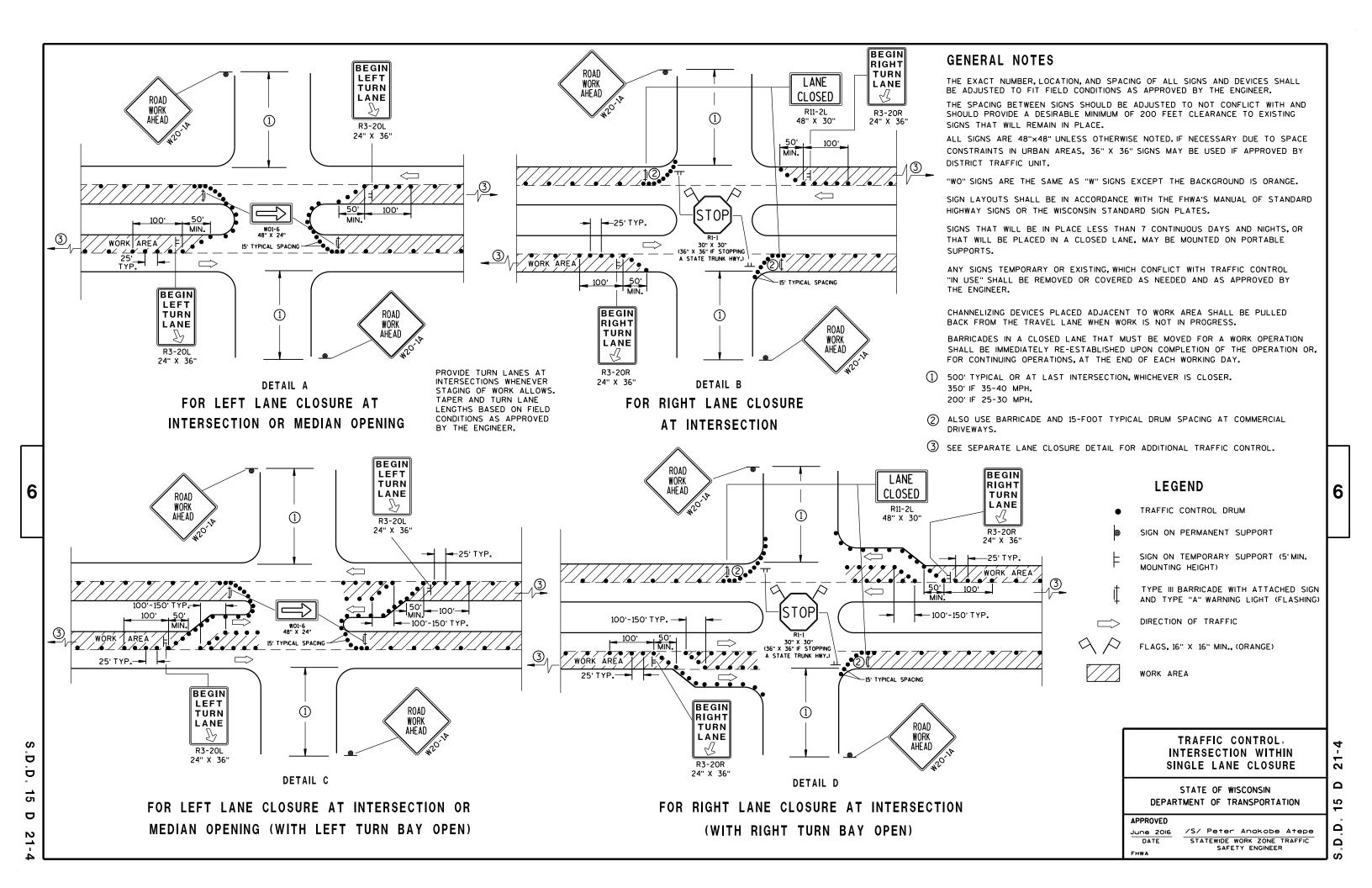
ا ا

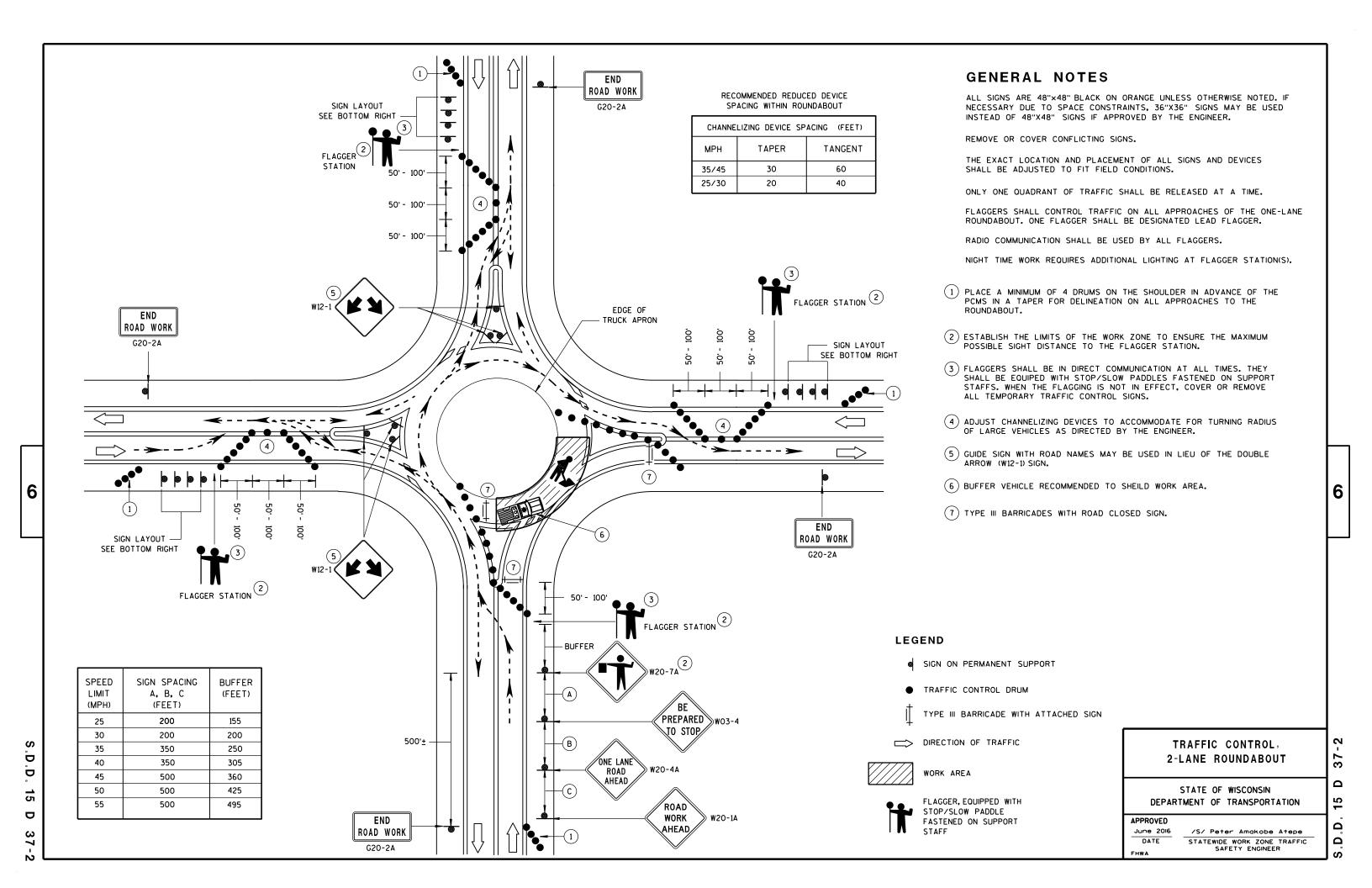
5

က

6

GENERAL NOTES LEGEND THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. SIGN ON PERMENENT SUPPORT IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING DELINEATION. THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. LEFT LANE. TRAFFIC CONTROL DRUM ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST FLASHING ARROW BOARD "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" TYPE "A" WARNING LIGHT (FLASHING) THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS. * X -X REMOVING PAVEMENT MARKING CROSSOVER MANEUVER. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS * THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL. DIRECTION OF TRAFFIC 1500 FEET IN FRONT OF DRUMS. FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. 6 6 WORK CLOSED CLOSED I MILE 1500 F XX м.Р.н 36"×36" IF NEEDED. USE ONLY TYPE III BARRICADE IF DESIGN SPEED IS TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE SPACED EVERY 1/4 MILE. 10 MPH BELOW 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) POSTED SPEED. 100' \Rightarrow \Rightarrow \Longrightarrow WORK AREA 50' L/2 500' MIN. - 800' DESIRABLE 575 L. TAPER 500 50 MPH - 600' 55 MPH - 660' 2600' 1600' 1000' 60 MPH - 720' TRAFFIC CONTROL, 9 65 MPH - 780' D 70 MPH - 840' LANE CLOSURE 5 DRUMS SPACED @ 10' INTERVALS AS 2 Ö NEEDED IN FRONT OF ARROW BOARD 15 Ω STATE OF WISCONSIN ADVANCED WARNING AREA TRANSITION AREA BUFFER SPACE DEPARTMENT OF TRANSPORTATION D **APPROVED** /S/ Peter Amakobe Atepe 2 March 2016 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER Ω 6 FHWA







Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov