FEDERAL PROJECT JULY 2015 SUP STATE PROJECT STATE OF WISCONSIN PROJECT ORDER OF SHEETS CONTRACT 1198-00-62 Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. 2 Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities ₫ PLAN OF PROPOSED IMPROVEMENT Section No. 4 Right of Way Plat Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings **SOLON SPRINGS - SUPERIOR** Section No. 8 Structure Plans 9 Section No. 9 Computer Earthwork Data **KENT ROAD TO USH 2 (NB & SB)** 8-00-62 Section No. 9 Cross Sections **USH 53** TOTAL SHEETS = 22 **DOUGLAS** STATE PROJECT NUMBER 1198-00-62 END PROJECT 1198-00-62 385+64.8 EXCEPTION TO NET CENTERLINE LENGTH STA 322+28.8 - STA 323+99.5 B-16-34 RD SET DESIGN DESIGNATION EXCEPTION TO NET CENTERLINE LENGTH A.A.D.T. 2009 = 7300 STA 253+64.8 - STA 254+96.7 A.A.D.T. 2029 = 8950 B-16-31 = 1245 D-H-V-= 63/37 = 16.2 DESIGN SPEED = 70 MPH **ESALS** = 1200850 CONVENTIONAL SYMBOLS PLAN PROFILE MIDDLE BEGIN PROJECT 1198-00-62 1////// GRADE LINE LONDEEN A CORPORATE LIMITS ORIGINAL GROUND 100+00 PROPERTY LINE G MARSH OR ROCK PROFILE LOT LINE (To be noted as such) RD. LIMITED HIGHWAY EASEMENT SPECIAL DITCH T-48-N  $\bigcirc$ STATE OF WISCONSIN EXISTING RIGHT OF WAY T-47-N GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION SLOPE INTERCEPT CULVERT (Profile View) CARLSON SAN RD LAMBER PREPARED BY UTILITIES REFERENCE LINE THOMAS ARMSTRONG Surveyor ELECTRIC NICHOLAS PITSCH EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT DANIEL OJIBWAY (Box or Pipe) SANITARY SEWER ANDREW STENSLAND COMBUSTIBLE FLUIDS LAYOUT STORM SEWER SCALE L 1 MILE TELEPHONE APPROVED FOR THE DEPARTMENT MARSH AREA ALL COORDINATES ARE BASED ON AN ASSUMED LOCAL COORDINATE SYSTEM. DATE: 4/23/15 UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 5.410 MI (Signature) POWER POLE ₫ WOODED OR SHRUB AREA TELEPHONE POLE Ø Ε FILE NAME: N:\PDS\DESIGN\PROJECTS\11980033\_USH53\_KENT-USH2\DESIGN\C3D\11980033\SHEETSOTHER\010101\_TI.DWG PLOT BY : PITSCH, NICHOLAS J PLOT NAME : PLOT DATE: 2/26/2015 8:45 AM WISDOT/CADDS SHEET 10 2

#### LIST OF STANDARD ABBREVIATIONS

**ABUTMENT** ABUT. AGGREGATE AGG. AHFAD AH. APPROXIMATE APPROX. APRON ENDWALL A.E.W. **ASPHALTIC** ASPH. AVERAGE DAILY TRAFFIC A.D.T. AZ. BK. BEG. AZIMUTH BACK BEGIN BENCH MARK B.M. CENTER LINE CONCRETE CONSTRUCTION CONST. COUNTY CO. C.T.H. X-SEC. COUNTY TRUNK HIGHWAY CROSS SECTION CR. CFS C.Y., CU. YD. CRUSHED CUBIC FEET/SECOND CUBIC YARD CULV. C.P. D.O.T. CULVERT CULVERT PIPE DEPARTMENT OF TRANSPORTATION DESIGN HOUR VOLUME D.H.V. DIAMETER DIA. DIRECTIONAL DISTRIBUTION DISCHARGE EACH DISCH. OR DIS. ELECT. EL. OR ELEV. ELECTRIC ELEVATION **EMBANKMENT** EMB. E.B.S. EXCAVATION BELOW SUBGRADE EXISTING FFRTILIZE FIELD ENTRANCE FINISHED FH: F.L. GA. HORIZ. FLOW LINE GAUGE HORIZONTAL CWT. HUNDREDWEIGHT INL. INLET LT. LEFT LEFT-HAND FORWARD L.H.F. LINEAR LIN. LIN. FT. LINEAR FOOT L.S. MAX. LUMP SUM MAXIMUM MI. MII F MISCELLANEOUS MISC. NORTH EAST N.F. NORTH WEST PAV'T PAVEMENT POINT OF CURVATURE
POINT OF INTERSECTION
POINT OF TANGENCY P.O.T. POINT ON TANGENT LB. POLIND PRIVATE ENTRANCE PROJ. PROJECT RANGE REQ'D REQUIRED RIGHT RIGHT-HAND FORWARD R.H.F. R/W RIGHT OF WAY RD. ROAD SHRINKAGE STANDARD STANDARD DETAIL DRAWINGS S.T.H. STA. STATE TRUNK HIGHWAY STATION STRUCTURAL PLATE PIPE ARCH STRUCTURE S.P.P.A. STRUCT. SURFACE TELEPHONE SURF. TOWN TRUCKS (PERCENT OF) UNCL. UNCLASSIFIED VELOCITY OR DESIGN SPEED

VERTICAL CURVE

#### GENERAL NOTES

THE ENGINEER WILL DETERMINE ANY DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN.

REMOVAL OF ANY SURVEY MARKER REQUIRES APPROVAL OF THE ENGINEER.

THERE ARE UTILITIES FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

NO TREES OR SCHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.



#### <u>UTILITIES</u>

Alan Nickell CenturyLink - Communication Line P.O. 369 Minong, Wi 54859 (715) 378-2131 alan.nickell@centurylink.com

James Dahlberg
Dahlberg Light And Power Company - Electricity
9221 E Main
P.O. Box 300
Solon Spring, WI 54873-0300
(715) 378-2205

Carlos Ramos Merit Network, Inc. - Communication Line Suite 200 1000 Oakbrook Dr. Ann Arbor, MI 48104 (734) 527-5767 cramosjr@merit.edu

Jeff Telker Northern Natural Gas Company - Gas/Petroleum 1995 Northern Natural Gas Rd Carlton, MN 55718 (402) 530-3466 Jeff.Telker@nngco.com

Wayne Cretton
Packerland Broadband - Communication Line
105 Kent St
P.O. Box 190
Iron Mountain, MI 49801
(906) 282-3768
wayne.cretton@plbb.us

Mike Adams
Wisconsin DOT RWIS Program - Communication Tower
Rm 501
P.O. Box 7986
Madison, WI 53707-7986
(608) 266-5004
Michael.Adams@dot.wi.gov

#### WISCONSIN DNR - LIASON

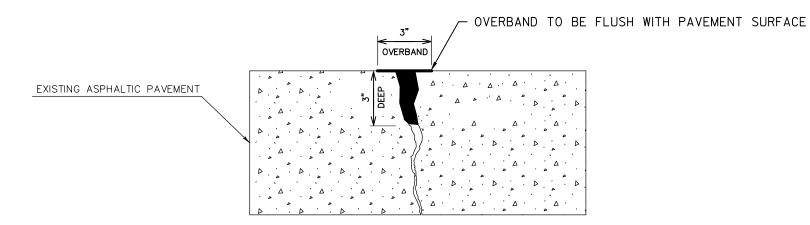
DNR - NORTHERN REGION 810 W. MAPLE ST. SPOONER, WI 54801 PHONE: 715-635-4002 ATTN: AMY CRONK

WISCONSIN DOT - DESIGN

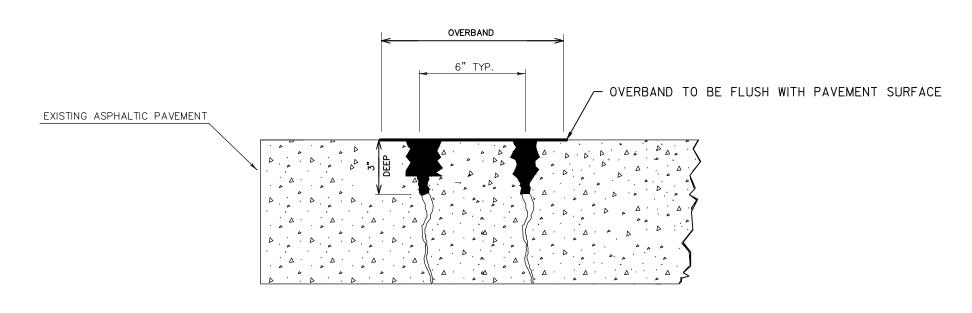
BRENDAN DIRKES DOT - NORTHWEST REGION 1701 N 4TH ST. SUPERIOR, WI 54880 PHONE: 715-395-3026 ATTN: NICHOLAS PITSCH

PROJECT NO:1198-00-62 HWY:USH 53 COUNTY:DOUGLAS GENERAL NOTES SHEET

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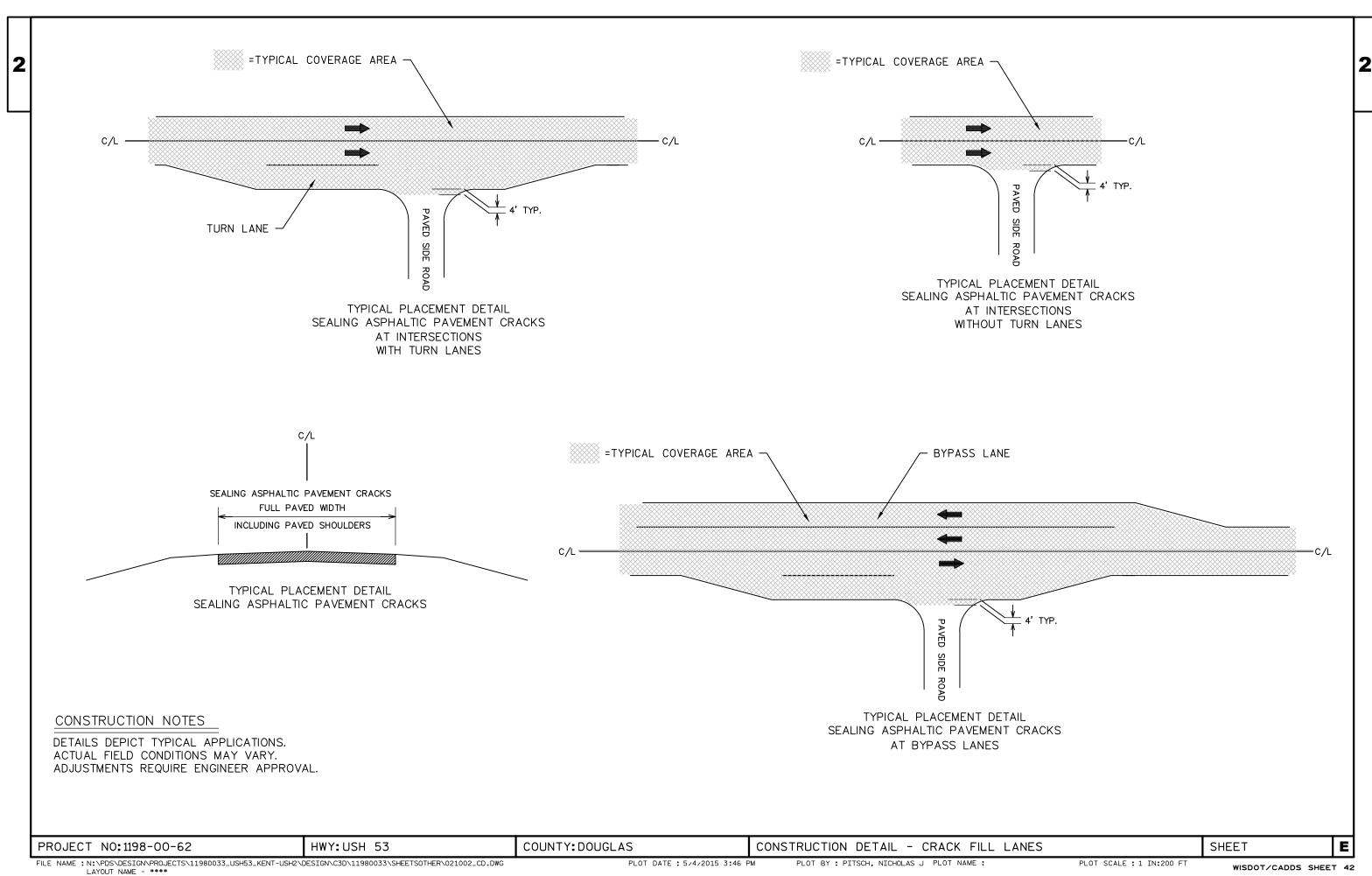
### SEALING ASPHALTIC PAVEMENT CRACKS



### SEALING ASPHALTIC PAVEMENT CRACKS

IF TWO CRACKS ARE LESS THAN 6 INCHES APART, CLEAN AND FILL THEM SO THE OVERBAND WILL COVER BOTH CRACKS.

PROJECT NO:1198-00-62 HWY:USH 53 COUNTY:DOUGLAS CONSTRUCTION DETAIL - CRACK FILL SHEET **E** 



DATE 06	MAY15	E S	TIMAT	E O F Q U A I	NTITIES
LINE					1198-00-62
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	213. 0100	Finishing Roadway (project) 01. 1198-00-62	EACH	1. 000	1. 000
0020	619. 1000	Mobilization	EACH	1.000	1.000
0030	643. 0100	Traffic Control (project) 01.1198-00-62	EACH	1.000	1.000
0040	643. 0300	Traffic Control Drums	DAY	3, 650, 000	3, 650. 000
0050	643. 0420	Traffic Control Barricades Type III	DAY	220. 000	220. 000
0060	643. 0715	Traffic Control Warning Lights Type C	DAY	260. 000	260. 000
0070	643.0800	Traffic Control Arrow Boards	DAY	20.000	20.000
0800	643.0900	Traffic Control Signs	DAY	310.000	310.000
0090	643. 1050	Traffic Control Signs PCMS	DAY	20.000	20.000
0100	646. 0106	Pavement Marking Epoxy 4-Inch	LF	137, 130. 000	137, 130. 000
0110	646. 0126	Pavement Marking Epoxy 8-Inch	LF	1, 560. 000	1, 560. 000
0120	646.0600	Removing Pavement Markings	LF	3, 140. 000	3, 140. 000
0130	647. 0803	Pavement Marking Aerial Enforcement Bars Epoxy 24-Inch	LF	48. 000	48. 000
0140	649. 0100	Temporary Pavement Marking 4-Inch	LF	1, 412. 000	1, 412. 000
0150	649. 0701	Temporary Pavement Marking 8-Inch	LF	300.000	300.000
0160	SPV. 0045	Special O1. Special Truck Mounted Attenuator	DAY	10.000	10.000
0170	SPV. 0125	Special 01. Sealing Asphaltic Cracks	MI	10. 820	10. 820

SHEET:

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<u> </u>	C CONTROL DRUMS				TRAFFI C	C CONTROL ARROW BOARDS		
	$\epsilon$	643. 0300		•			643. 0800	
ATEGORY STATI ON TO STATI ON	LOCATI ON	DAY RE	EMARKS	CATEGORY STATI ON TO	STATI ON	LOCATI ON	DAY	REMARKS
0010 100+00 - 385+64.8 SOL	LON SPRINGS - SUPERIOR	3, 650		0010 100+00 -	385+64. 8	SOLON SPRINGS - SUPERIOR	20	
	TOTAL 0010	3, 650				TOTAL 0010	20	
TRAFFI C CONTRO	ROL BARRICADES TYPE III				TRA	AFFIC CONTROL SIGNS		
	6	43. 0420					643. 0900	
ATEGORY STATION TO STATION	LOCATI ON	DAY REM	MARKS	CATEGORY STATION TO	STATI ON	LOCATI ON	DAY	REMARKS
0010 100+00 - 385+64.8 S0L0	LON SPRINGS - SUPERIOR	220		0010 100+00 -	385+64. 8	SOLON SPRINGS - SUPERIOR	310	
	TOTAL 0010	220				TOTAL 0010	310	=
TRAFFI C CONTRO	OL WARNING LIGHTS TYPE C				<u>REMOV</u>	/ING PAVEMENT MARKINGS		
		643. 0715 DAY RF	EMARKS	CATEGORY STATI ON TO			646. 0600 LF	REMARKS
TATEGORY STATI ON TO STATI ON			EMARKS	CATEGORY STATI ON TO 0010 100+00 -	STATI ON		LF	REMARKS
ATEGORY STATI ON TO STATI ON	LOCATI ON	DAY RE	EMARKS		STATI ON	LOCATI ON	LF	REMARKS
ATEGORY   STATI ON   TO   STATI ON    0010	LOCATION  DLON SPRINGS - SUPERIOR	DAY RE	EMARKS		385+64. 8	LOCATI ON  SOLON SPRINGS - SUPERI OR	LF 3140 3140	REMARKS
ATEGORY   STATI ON   TO   STATI ON    0010	LOCATION  LOCATION  DLON SPRINGS - SUPERIOR  TOTAL 0010	DAY RE			385+64. 8	LOCATION  SOLON SPRINGS - SUPERIOR  TOTAL 0010	LF 3140 3140	REMARKS  . 0126
ATEGORY   STATI ON   TO   STATI ON    0010	LOCATION  LOCATION  DLON SPRINGS - SUPERIOR  TOTAL 0010	DAY RE 260 260			385+64. 8	LOCATION  SOLON SPRINGS - SUPERIOR  TOTAL 0010  VEMENT MARKING EPOXY 8-IN	LF 3140 3140  NCH 646	=
ATEGORY   STATI ON   TO   STATI ON    0010	LOCATION  DLON SPRINGS - SUPERIOR  TOTAL 0010  NT MARKING EPOXY 4-INCH	DAY RE 260 260  646. 010	06 REMARKS 0 WHI TE	0010 100+00 -	PA STATI ON	LOCATION  SOLON SPRINGS - SUPERIOR  TOTAL 0010  VEMENT MARKING EPOXY 8-IN	LF 3140 3140  NCH 646	. 0126 LF REM
PAVEMENT  O010 100+00 - 385+64. 8 SOI  PAVEMENT  ATEGORY STATI ON TO STATI ON   0010 100+00 - 385+64. 8 SOI	LOCATION  DLON SPRINGS - SUPERIOR  TOTAL 0010  TOTAL 0010  LOCATION	DAY RE 260  260  646. 010  LF  NB) 40, 000 28, 565	06 REMARKS 0 WHI TE 5 YELLOW 0 WHI TE	O010 100+00 -  CATEGORY STATI ON TO	PA  STATI ON  385+64. 8  STATI ON  385+64. 8	LOCATION  SOLON SPRINGS - SUPERIOR  TOTAL 0010  VEMENT MARKING EPOXY 8-IN	LF 3140 3140 NCH 646  OR (NB)	. 0126 REM

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MISCELLANEOUS QUANTITIES

COUNTY: DOUGLAS

HWY: USH 53

PROJECT NO: 1198-00-62

647. 0803 CATEGORY STATION TO STATION REMARKS LOCATI ON LF 0010 100+00 - 385+64.8 SOLON SPRINGS - SUPERIOR (NB) 24 100+00 - 385+64. 8 SOLON SPRINGS - SUPERIOR (SB) 24 0010

PAVEMENT MARKING AERIAL ENFORCEMENT BARS EPOXY 24-INCH

TOTAL 0010

SPECIAL TRUCK MOUNTED ATTENUATOR SPV. 0045. 01 CATEGORY STATION TO STATION LOCATI ON REMARKS DAY 0010 100+00 - 385+64. 8 SOLON SPRINGS - SUPERIOR 10 TOTAL 0010 10

TEMPORARY PAVEMENT MARKING 4-INCH 649. 0100 CATEGORY STATION TO STATION LOCATI ON REMARKS 0010 100+00 - 385+64. 8 SOLON SPRINGS - SUPERIOR 1412 WHI TE TOTAL 0010 1412

SPECIAL SEALING ASPHALTIC CRACKS SPV. 0125. 01 CATEGORY STATION TO STATION LOCATI ON REMARKS MI 0010 100+00 - 385+64.8 SOLON SPRINGS - SUPERIOR 5.41 NB 100+00 - 385+64. 8 SOLON SPRINGS - SUPERIOR SB TOTAL 0010 10. 82

TEMPORARY PAVEMENT MARKING 8-INCH 649.0701 CATEGORY STATION TO STATION REMARKS LOCATI ON LF 100+00 - 385+64. 8 SOLON SPRINGS - SUPERIOR 300 WHITE TOTAL 0010 300

TRAFFIC CONTROL SIGNS PCMS 643. 1050 CATEGORY STATION TO STATION LOCATI ON REMARKS DAY 0010 100+00 - 385+64. 8 SOLON SPRINGS - SUPERIOR 20 TOTAL 0010 20

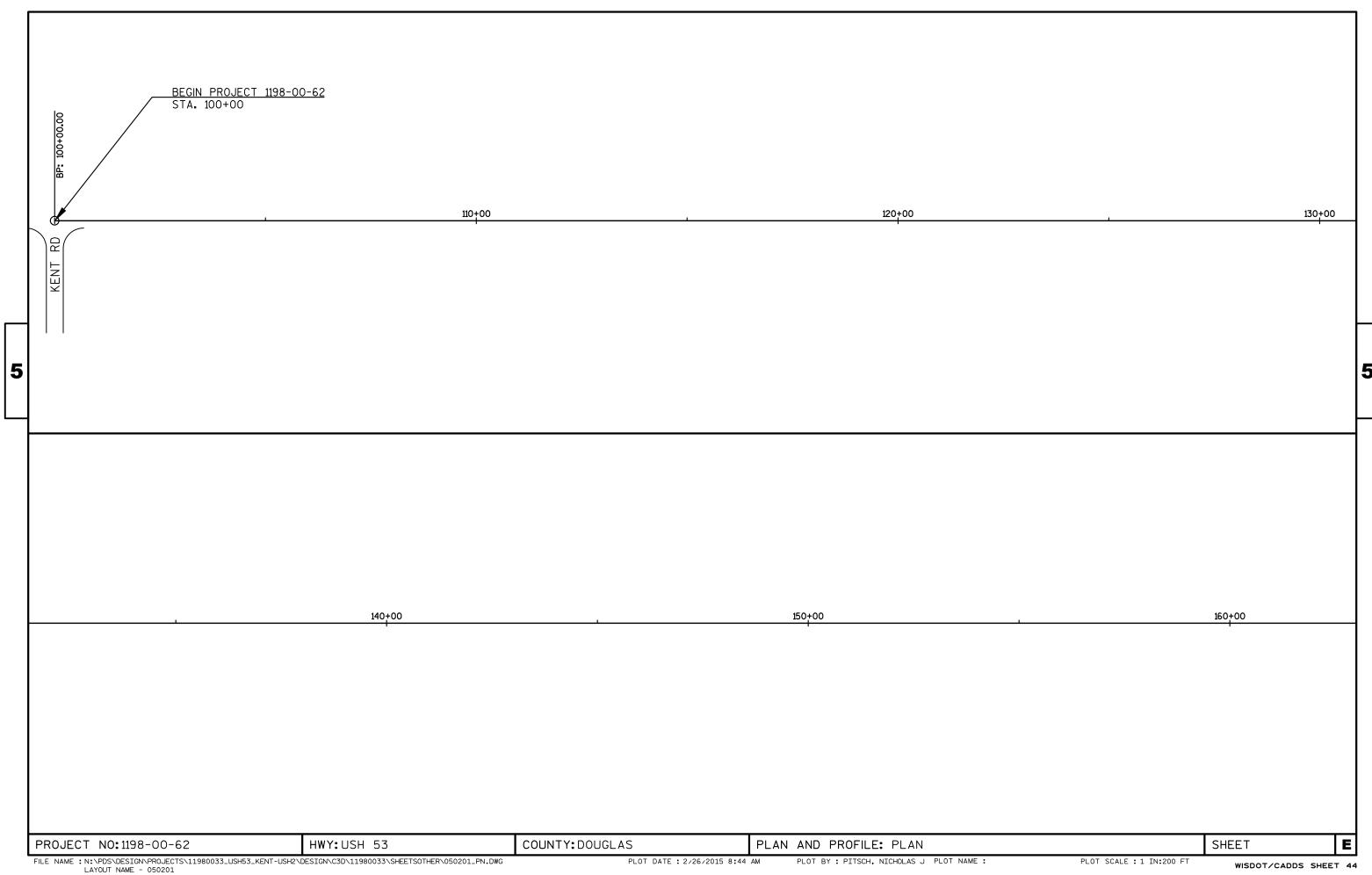
HWY: USH 53 Ε COUNTY: DOUGLAS MISCELLANEOUS QUANTITIES SHEET: PROJECT NO: 1198-00-62

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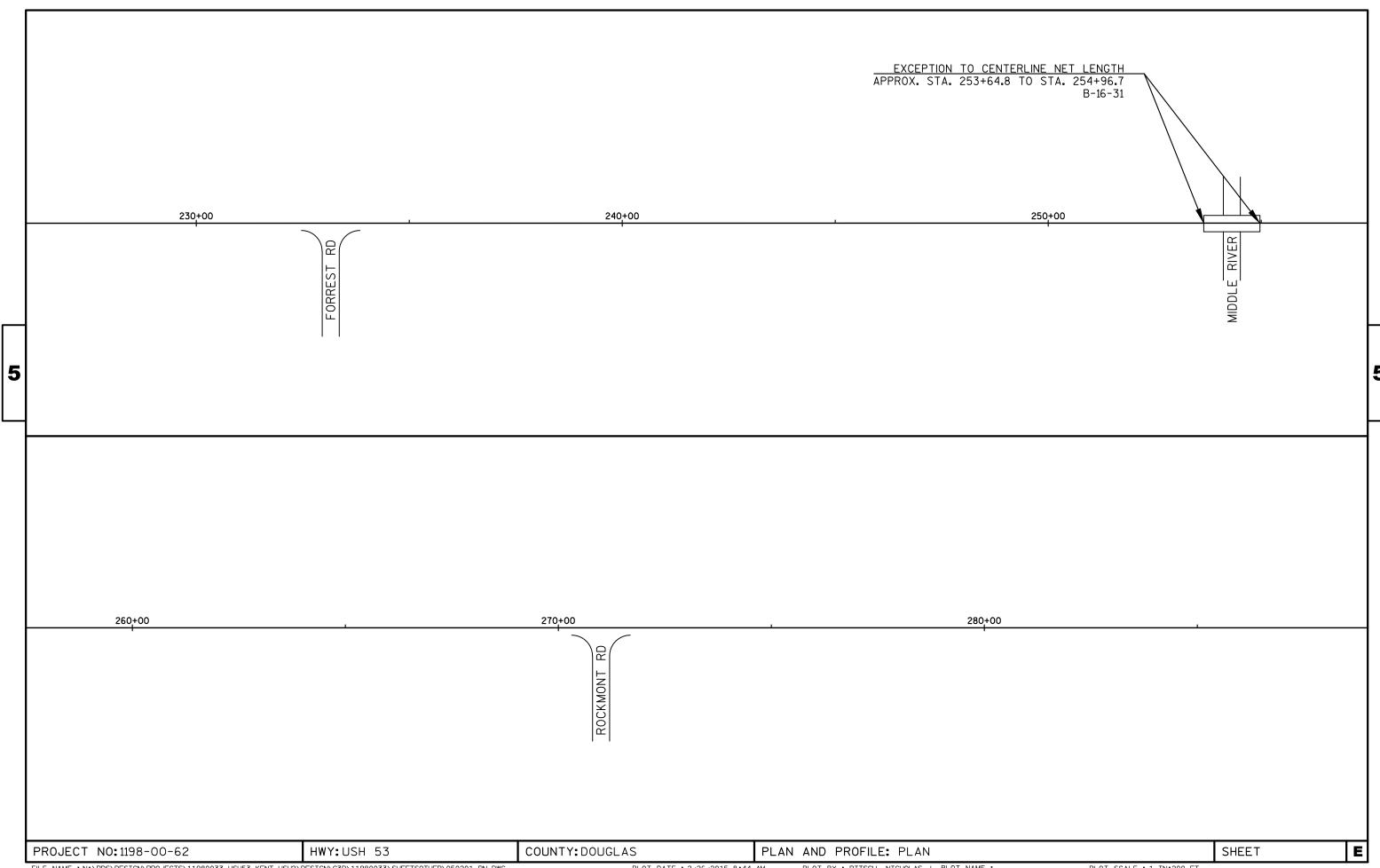
WHI TE

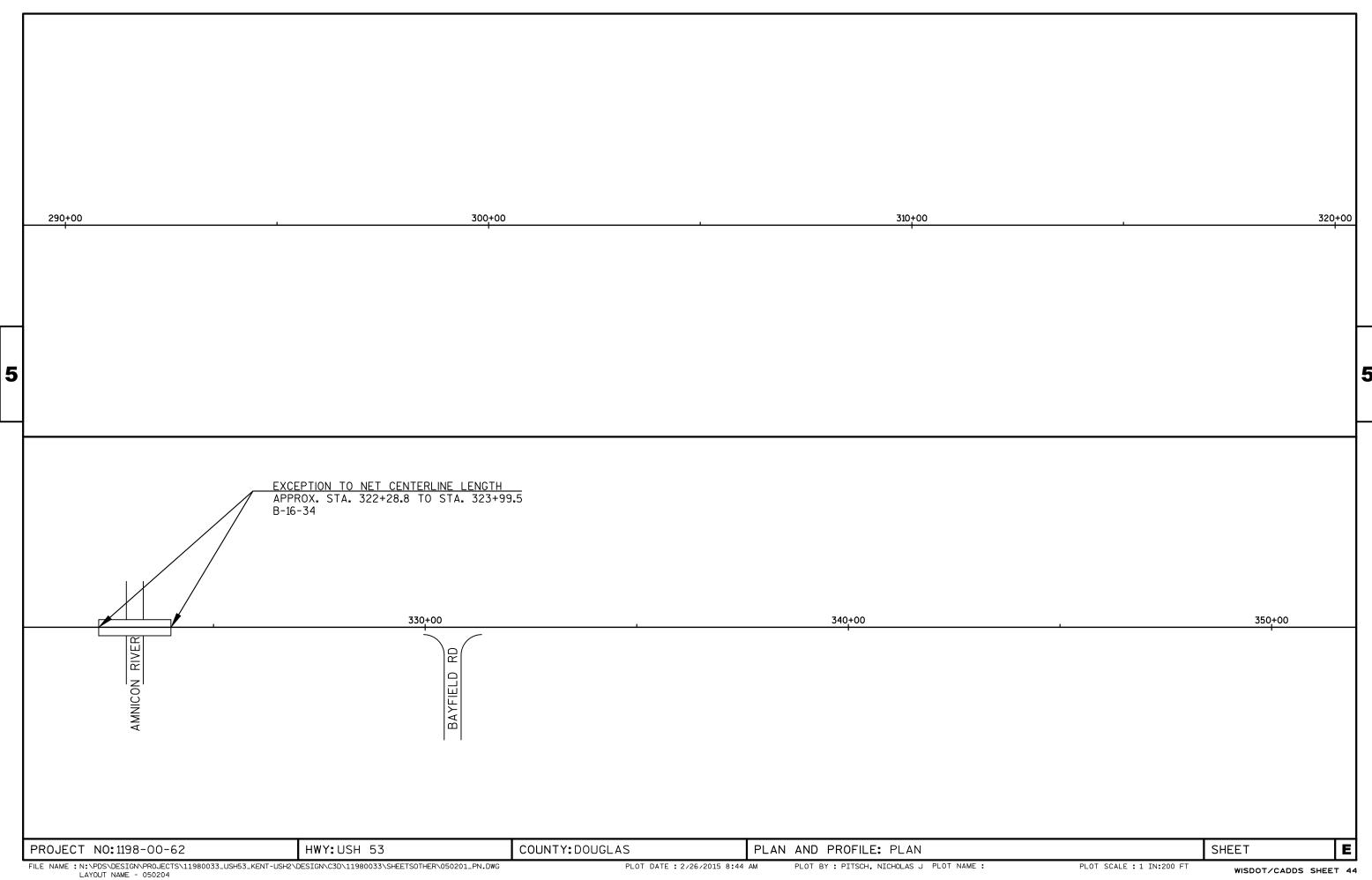
WHI TE

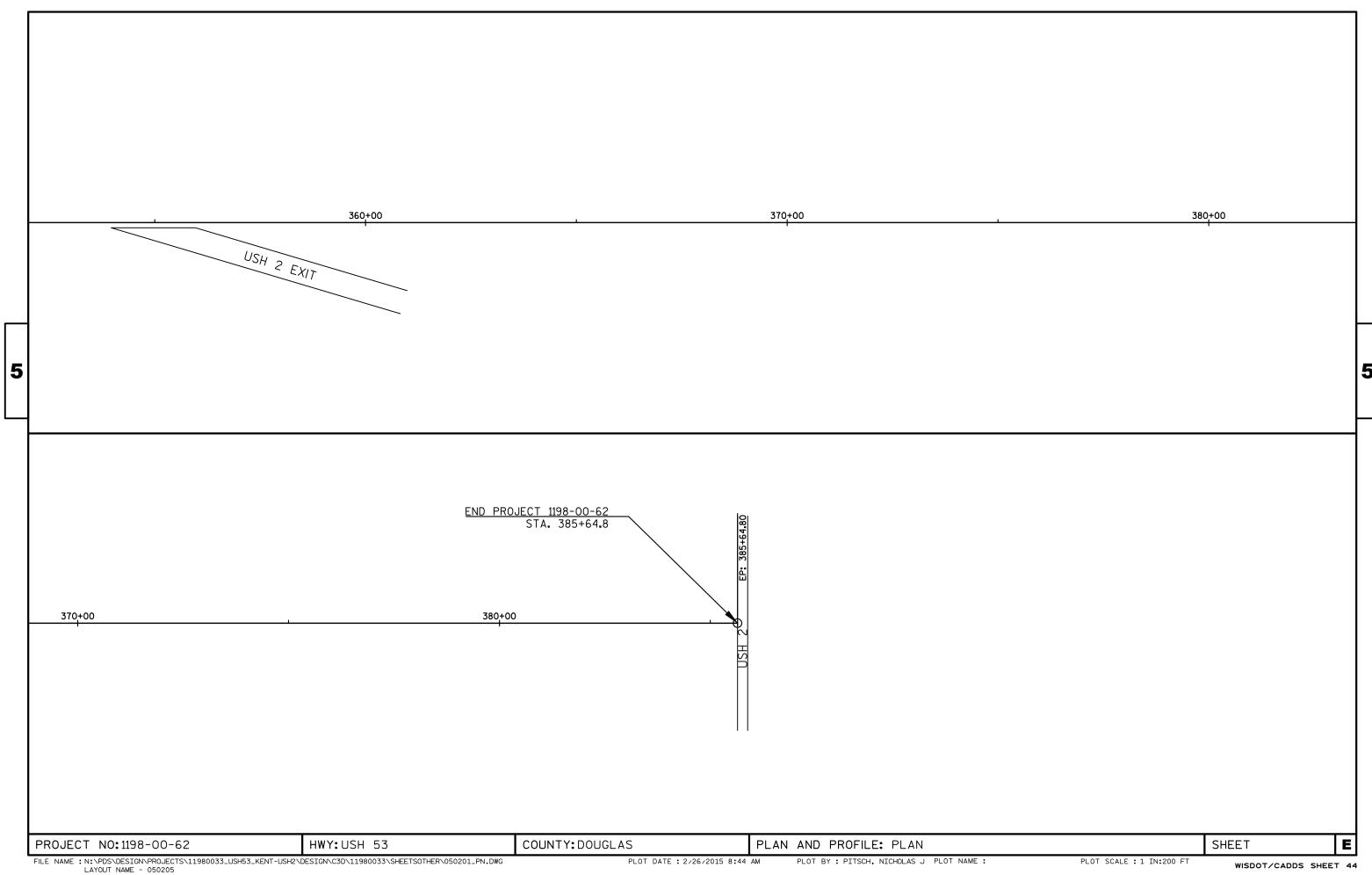
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## Standard Detail Drawing List

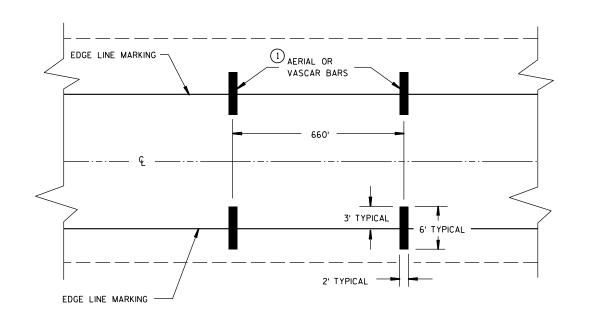
I5C08-16A	PAVEMENT MARKING (MAINLINE)
I5C14-01	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
I5C19-02C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
I5C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
I5D12-04	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
I5D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D22-02	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

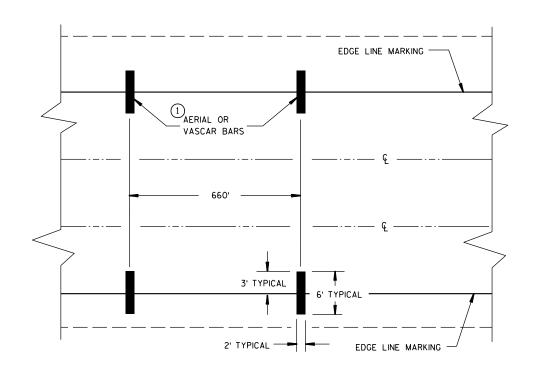
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1) NUMBER OF VASCAR OR AERIAL BARS SHALL BE A MINIMUM OF 2 OR A MAXIMUM OF 5 AT 660' SPACING.

A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.





TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC

TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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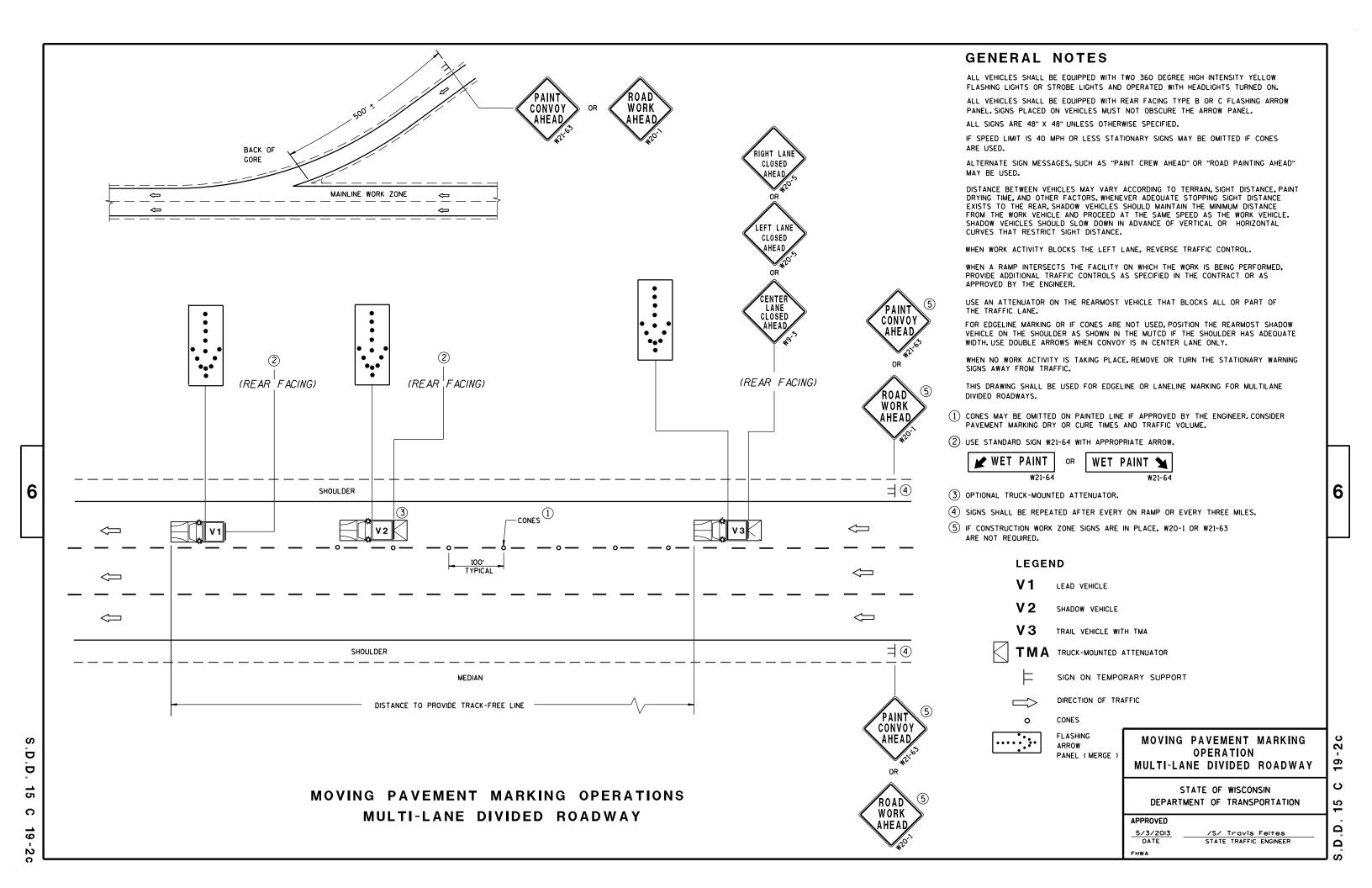
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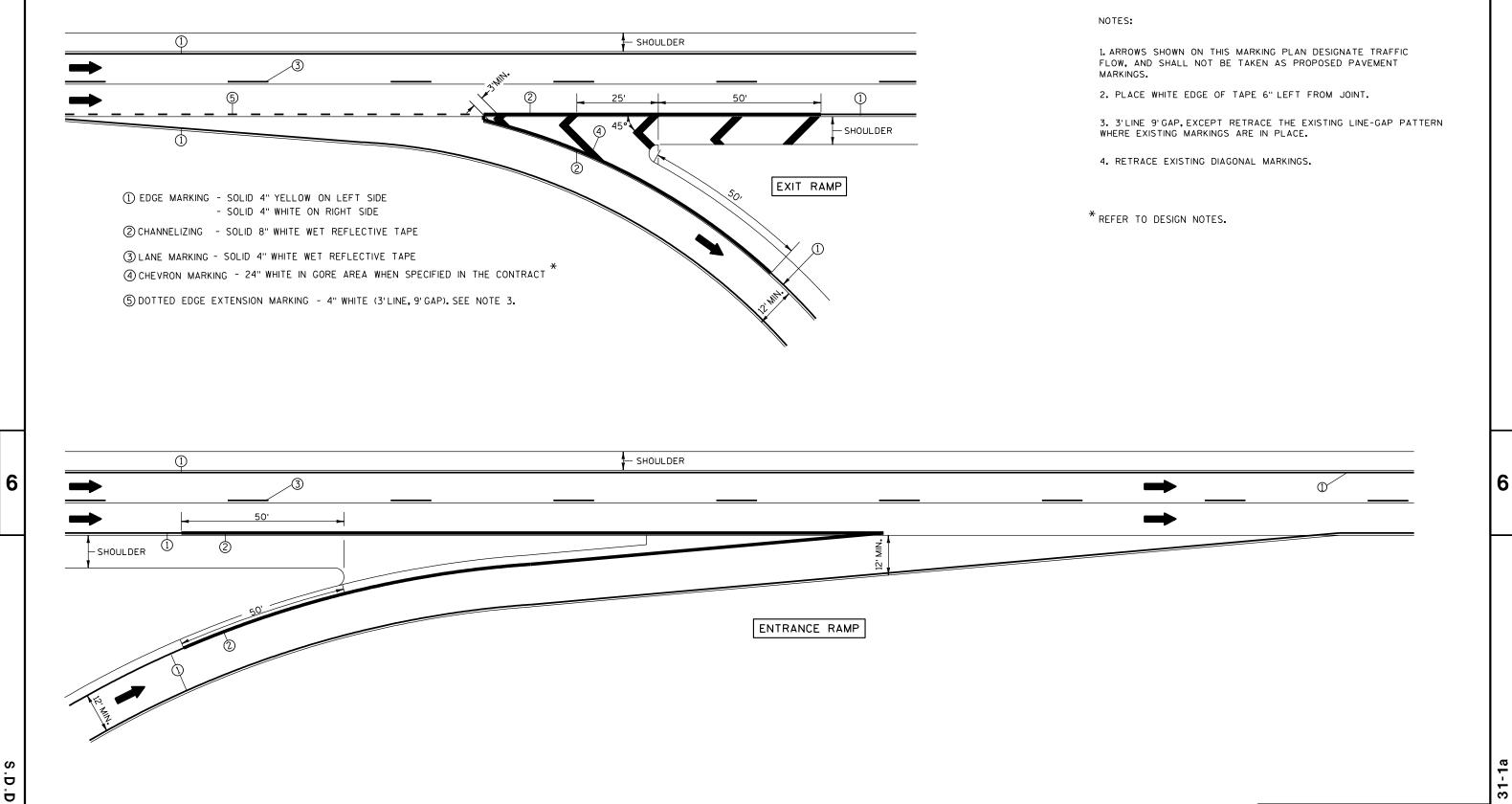
4/23/01 /S/ Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER

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S.D.D. 15 C 14-1

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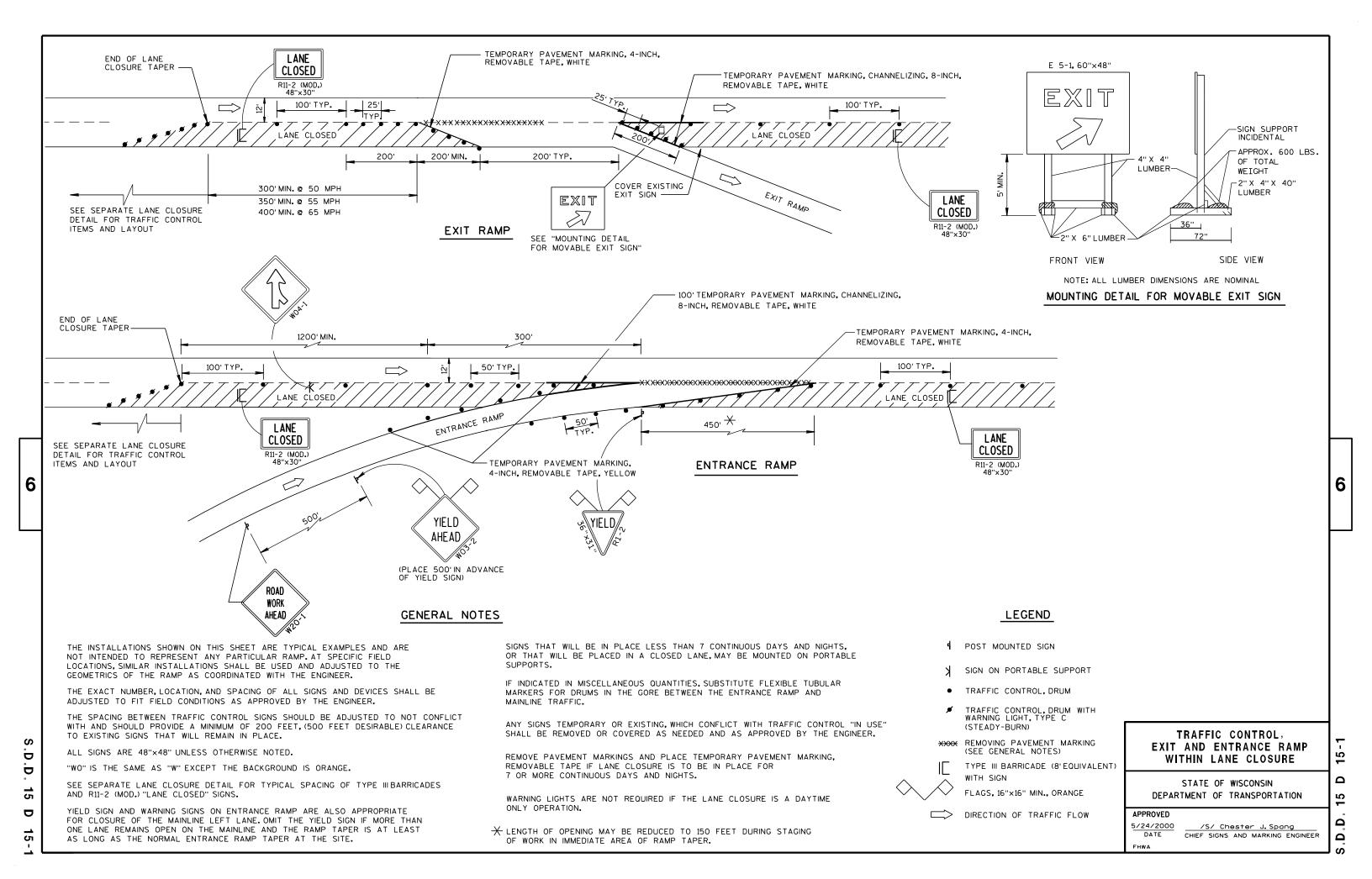
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3.D.D. 15 C 31-1a

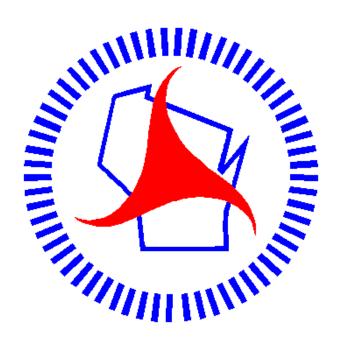
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (RAMPS AND GORES)

#### **GENERAL NOTES LEGEND** THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING OPERATION. SIGN ON PERMENENT SUPPORT SIGNS. 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 SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A 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. \*\* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A 65 MPH RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN. ĹĬŇĬŤ 55 R2-1 48"×60" (BLACK 6 6 ROAD RIGHT LANE 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' $\Rightarrow$ $\Rightarrow$ WORK AREA 50' TYP. 500' | 500' 350' 500' MIN. - 800' DESIRABLE 575 MIN. MIN. TAPER 500 55 MPH - 660' 2600' 1600' 1000' S TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION D 5 DRUMS SPACED @ 10' INTERVALS AS 2 NEEDED IN FRONT OF ARROW BOARD D Δ STATE OF WISCONSIN 15 ADVANCED WARNING AREA TRANSITION AREA **BUFFER SPACE** DEPARTMENT OF TRANSPORTATION O APPROVED Δ 3-2014 /S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN Ω N



Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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