UTILITIES

COMMUNICATIONS

CELECT COMMUNICATIONS LLC PO BOX 189 SPRING VALLEY, WI 54767-0189 PH: (715) 778-6121 ATTENTION: MIKE DEMARCE

EMAIL: mdemarce@celectcom.com

ELECTRIC

320 HELLER RD MENOMONIE, WI 54751-1364 PH: (715) 232-7412 ATTENTION: MEGAN BOIDIG EMAIL: megan.m.boldia@xceleneray.com

TRANSMISSION 8701 MONTICELLO LANE MAPLE GROVE, MN 55369-4550 PH: (615) 955-1089 ATTENTION: CHARLES DIENGER EMAIL: charles.g.dienger@xcelenergy.com

COPY ALL CORRESPONDENCE TO: XCFI ENERGY 1414 WEST HAMILTON AVENUE EAU CLAIRE, WI 54702-0008 PH: (715) 737-2482 ATTENTION: DAWN SCHULTZ EMAIL: dawn.schultz@xcelenergy.com

NATURAL GAS

WE ENERGIES 104 WEST SOUTH STREET RICE LAKE, WI 54868-2418 PH: (715) 221-4578 ATTENTION: LEWIS KNAPP EMAIL: lewis,knapp@we-energies.com WE ENERGIES EMERGENCY CONTACT

TELEPHONE

CENTURYLINK 20 SOUTH WILSON AVENUE RICE LAKE, WI 54868-2248 PH: (715) 234-5528 ATTENTION: MONTY PARKER EMAIL: monty.parker@centurytel.com

SANITARY & WATER

PH: (800) 261-5325

VILLAGE OF ELMWOOD PO BOX 26 ELMWOOD, WI 54740-0026 PH: (715) 639-2400 ATTENTION: JAMIE REITZ EMAIL: villelm@celectcom.net

WEST WISCONSIN TELECOM COOPERATIVE

5808 OLD MILL PLAZA PH: (715) 231-0504 ATTN: BRAD SCHMIDTKNECHT EMAIL: brads@wwt.coop

Dial **B** or (800) 242-8511

* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

CONTACTS

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS INC. 310 EAST JACKSON STREET WISCONSIN RAPIDS, WI 54494 ATTN: PATRICK ECKELBERG, P.E. PH: (715) 424-2424 FAX: (715) 424-2421 E-MAIL: patrick.eckelberg@jewellassoc.com

WDNR LIASON:

STATE OF WISCONSIN DEPT. OF NATURAL RESOURCES 1300 CLAIREMONT AVENUE PO BOX 4001 EAU CLAIRE, WI 54702-4001 PH: (715) 839-1609 ATTN: CHRIS WILLGER E-MAIL: christopherj.willger@wisconsin.gov

WISDOT NW REGION

STATE OF WISCONSIN DEPT. OF TRANSPORTATION 718 W CLAIREMONT AVE. EAU CLAIRE, WI 54701-5108 PH: (715) 836-3902 ATTN: WENDY MAVES, P.F. E-MAIL: wendy.maves@dot.wi.gov

ORDER OF DETAIL SHHETS

GENERAL NOTES PROJECT OVERVIEW
TYPICAL SECTIONS PERMANENT SIGNING PAVEMENT MARKING TRAFFIC CONTROL ALIGNMENT CONTROL POINT TIES

LIST OF STANDARD ABBREVIATIONS

Roadway ABUT Abutmen⁻ RDWY SALV Salvaged AC IRS Iron Rod Set SAN S AGG Aggregate Sanitary Sewe Joint SEC Section AΗ Ahead JCT Junction SHLDR Shoulder Anale LHE Left-Hand Forward SHR Shrinkage ASPH Asphaltic Length of Curve SW Sidewalk AVG Average LIN FT Linear Foot Average Daily Traffic South ADT or LF SB Southbound BK Back Long Chord of Curve SQ BF Back Face Square SF or SQ FT Square Feet ВМ Bench Mark MB Mailbox SY or SQ YD STD Square Yard BR Bridge ML or M/L Match Line Standard North SDD CLRNC CL or C/L Standard Detail Drawinas Clearance Center Line NC Normal Crown STH State Trunk Highways North Grid Coordinate CC CTH Center to Center STA Station Northbound County Trunk Highway SS SG Storm Sewer OD PLE Outside Diameter CR Creek Subgrade Permanent Limited CR Crushed Fasement SE Superelevation CY or CU SL or S/L YD Cubic Yard Survey Line CP Point of Curvature Culvert Pipe S۷ Septic Vent Curb and Gutter C & G Point of Intersection Tangent PRC Point of Reverse TEL TEMP Degree of Curve Telephone DHV Curvature Design Hour Volume Temporary Point of Tangency DIA Diameter Temporary Interest POC Point On Curve Fast TLE Temporary Limited POT Point on Tangent East Grid Coordinate Easèment PVC. Polyvinyl Chloride Eastbound PCC ELEC Portland Cement TC Top Of Curb Electric (al) Concrete Pound EL or ELEV ESALS Elevation T or TN LB PSI Equivalent Single Axle Pounds Per Square Inch TRANS Transition Loads Excavation Below TL or T/L Transit Line Private Entrance **EBS** Trucks (percent of) Radius Subgrade Face to Face TYP Railroad Tvoical FF FE Ranae UNCL Unclassified Field Entrance RL or R/L Reference Line UG Underground Cable Reference Point USH United States Highway Finished Grade **RCCP** Reinforced Concrete VAR Flow Line FL or F/L Variable Culvert Pipe Velocity or Design Speed FTG Footina REQD Required VERT Vertica GN HT Grid North RES Residence or Residential VC Vertical Curve Heiaht RW Retaining Wall VOL Volume CWT Hundredweigh RT Riaht WM Water Main HYD Hydrant Right-Hand Forward WV Water Valve R/W Right-of-Way West ID Inside Diameter WB Westbound INV Invert RD Road YD Yard

GENERAL NOTES

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

www.DiggersHotline.com

COORDINATES AND BEARINGS ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM PIERCE COUNTY (ENGLISH) NAD 1983 WITH 2011 ADJUSTMENT (NAD83(2011)). ALL PLAN DISTANCES ARE GROUND LENGTH.

CURVE DATA IS BASED ON THE ARC DEFINITION.

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.

ALL RADII DIMENSIONS ON THE PLAN FOR CURB & GUTTER ARE TO THE FLANGE OF THE CURB & GUTTER, UNLESS OTHERWISE NOTED ON THE PLANS.

CURB & GUTTER GRADES ARE GIVEN ON THE FLANGE LINE, UNLESS INDICATED OTHERWISE. CURB & GUTTER JOINT SPACING SHALL MATCH THE ABUTTING PAVEMENT JOINTS (WHERE APPLICABLE) UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADII POINTS IN THE CURB & GUTTER.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

FILL EXPANSION OF EARTHWORK IS VARIABLE AND IS ESTIMATED AT 25%.

ALL NEW CONCRETE PIPE SHALL HAVE JOINT TIES INSTALLED ON THE LAST TWO PIPE-TO-PIPE JOINTS AND AT THE PIPE-TO-ENDWALL JOINT AT BOTH THE INLET AND DISCHARGE ENDS. THE NUMBER OF TIES REQUIRED IS LISTED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES ARE A NON BID ITEM: THE COST SHALL BE INCLUDED IN THE PRICE PER LINEAR FOOT OF PIPE

CROSS DRAIN PIPE INVERT ELEVATIONS, LENGTHS AND LOCATIONS AS SHOWN ON THE PLANS AND CROSS SECTIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE MATERIAL SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. EROSION CONTROL ITEMS ON THE PLAN ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS AND DIMENSIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER IN THE FIELD DEEMS THE DEVICES NO LONGER NECESSARY.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN AND MISCELLANEOUS QUANTITY SHEET OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE FERTILIZED (TYPE B), MULCHED, SEEDED (SEEDING MIXTURE NO. 20) AND TEMPORARY SEEDED AS DIRECTED BY THE ENGINEER IN THE FIELD.

RURAL PAVEMENT STRUCTURE

3 3/4-INCH HMA PAVEMENT TYPE E-3 SPECIAL SHALL BE PAVED WITH 1 3/4-INCH LOWER LAYER AND A 2-INCH UPPER LAYER. THE NOMINAL SIZE OF THE AGGREGATE USED FOR BOTH LAYERS

URBAN PAVEMENT STRUCTURE

3 1/2-INCH HMA PAVEMENT TYPE E-3 SPECIAL SHALL BE PAVED WITH 1 1/2-INCH LEVELING LAYER AND A 2-INCH UPPER LAYER. THE NOMINAL SIZE OF THE AGGREGATE USED FOR BOTH LAYERS

2-INCH HMA PAVEMENT TYPE E-3 SPECIAL SHALL BE PAVED WITH A SINGLE 2-INCH LAYER. THE NOMINAL SIZE OF THE AGGREGATE USED SHALL BE 12.5 MM.

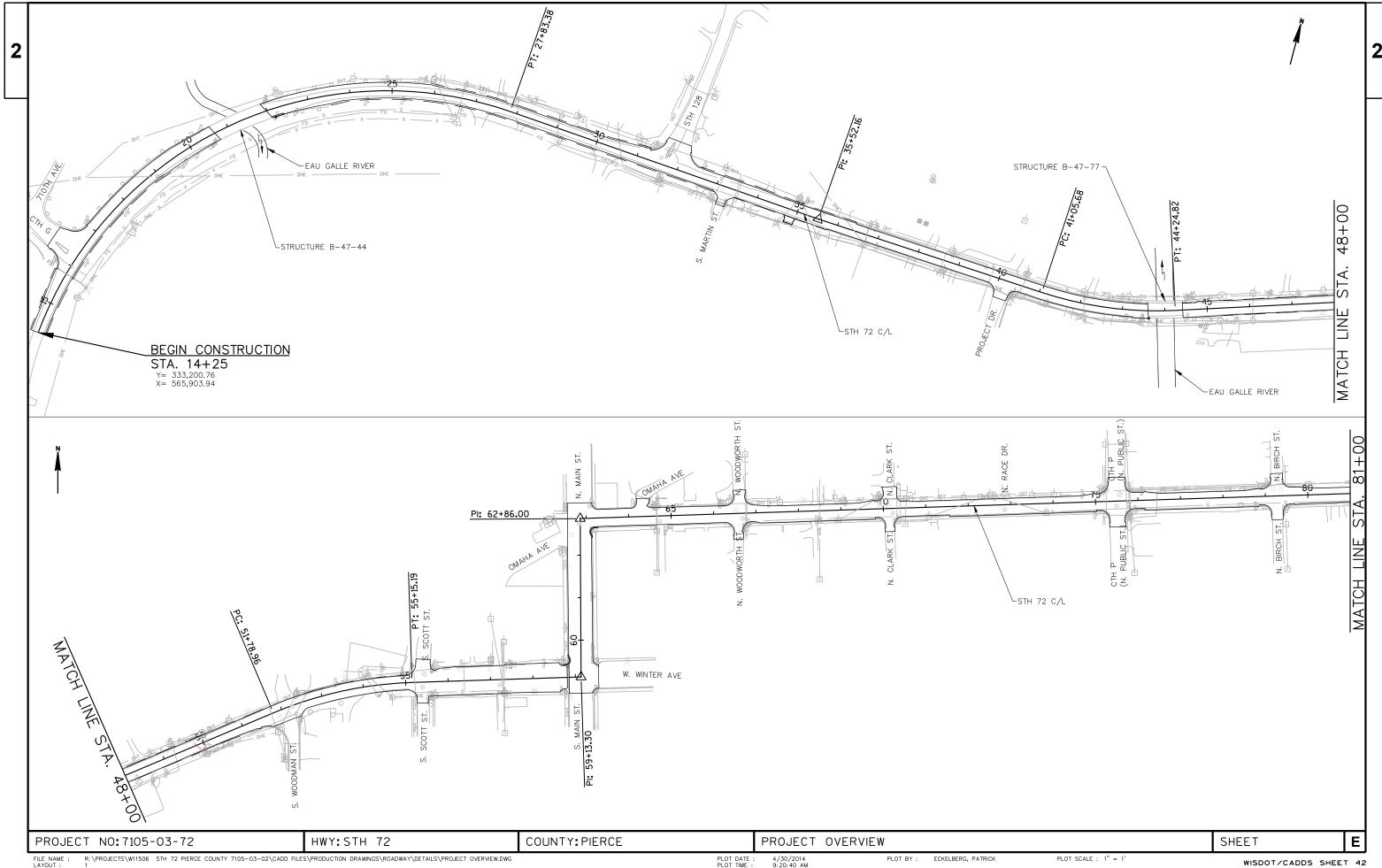
HMA PAVEMENT TYPE E-3 SPECIAL QUANTITIES WERE CALCULATED BASED ON A DENSITY OF 115 LBS/SY/IN

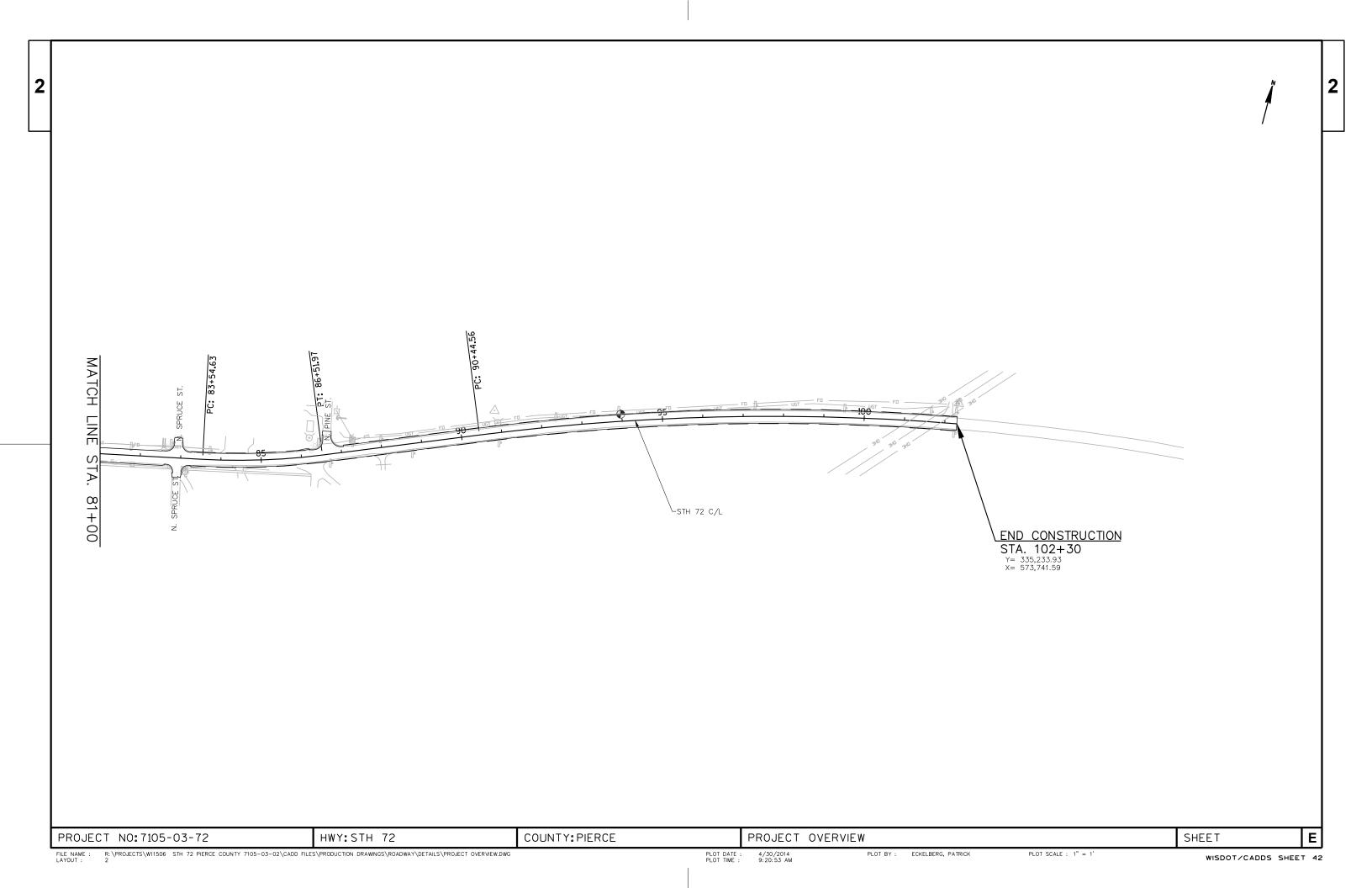
REMOVAL OF ASPHALTIC SURFACE WHERE AN ABUTTING ASPHALTIC SURFACE IT TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

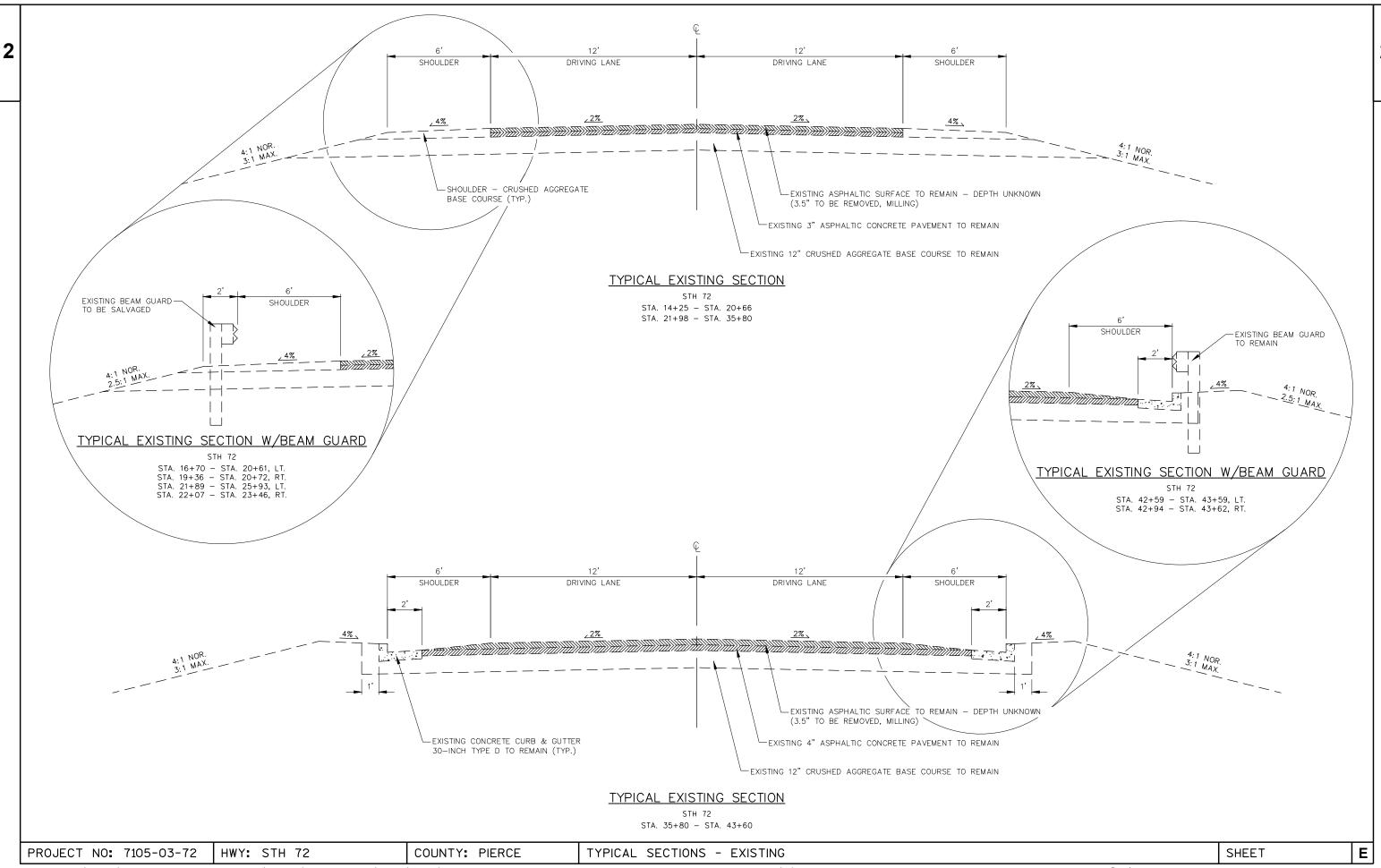
	HYDROLOGIC SOIL GROUP											
		P	4		E	3		С		D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)				LOPE (PERC	RANGE ENT)	SLOPE RANGE (PERCENT)		
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT												
ASPHALT	ASPHALT .7095											
CONCRETE	CONCRETE .8095											
BRICK	BRICK .7080											
	DRIVES, WALKS .7585											
ROOFS	ROOFS .7595											
GRAVEL ROAD	GRAVEL ROADS, SHOULDERS .4060											

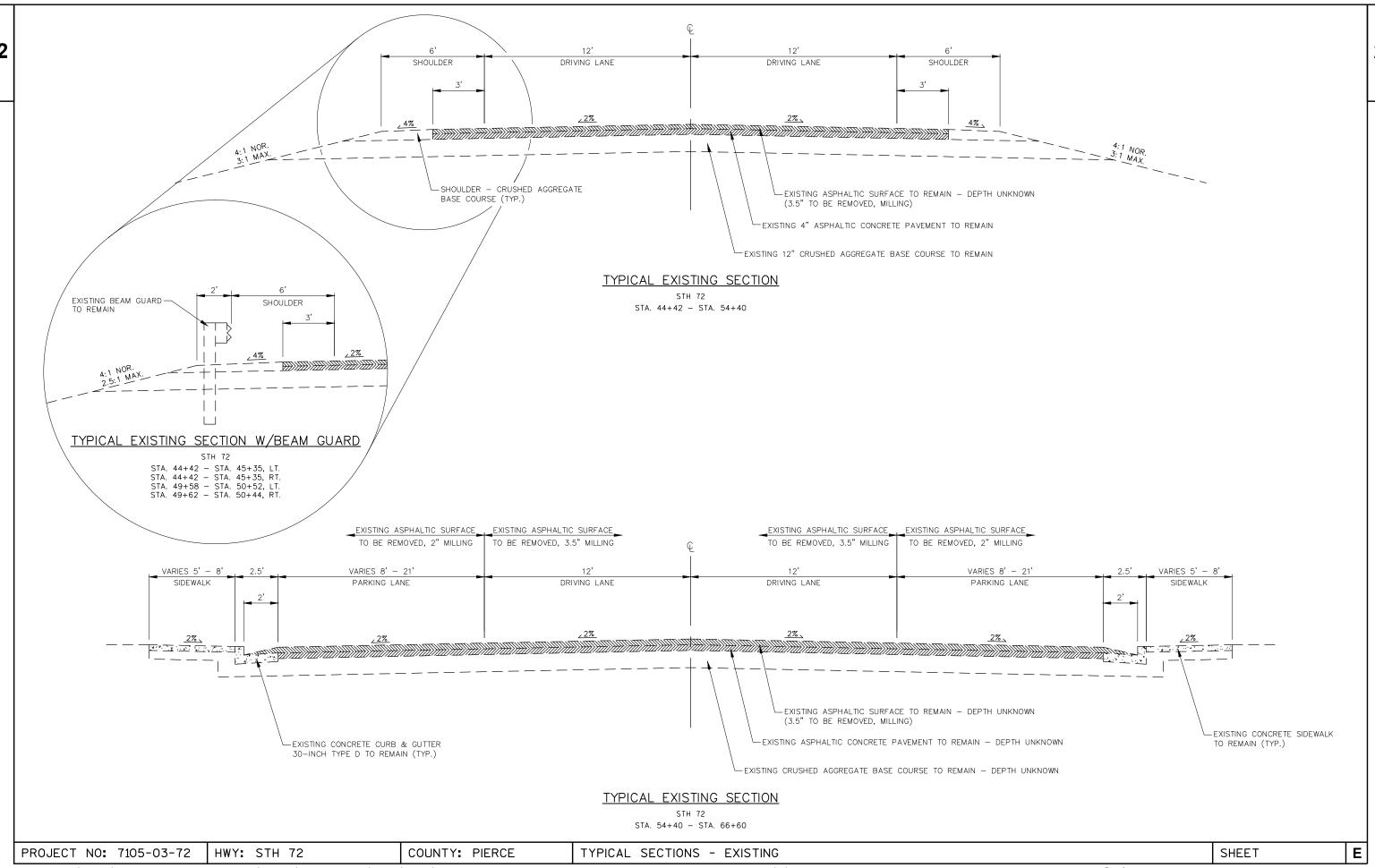
TOTAL PROJECT AREA = 13.34 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 8.05 ACRES

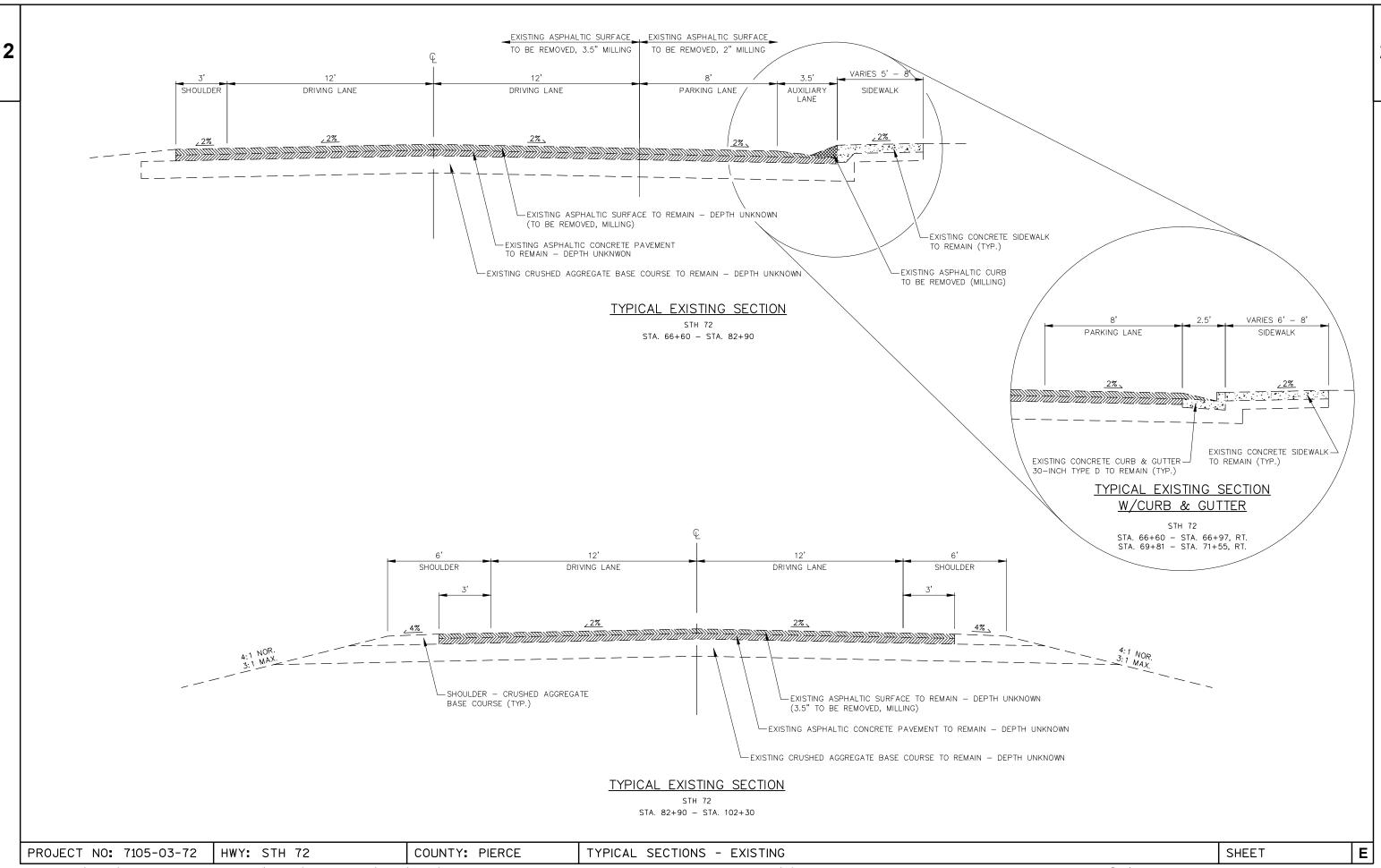
Ε PROJECT NO: 7105-03-72 HWY: STH 72 COUNTY: PIERCE GENERAL NOTES SHEET

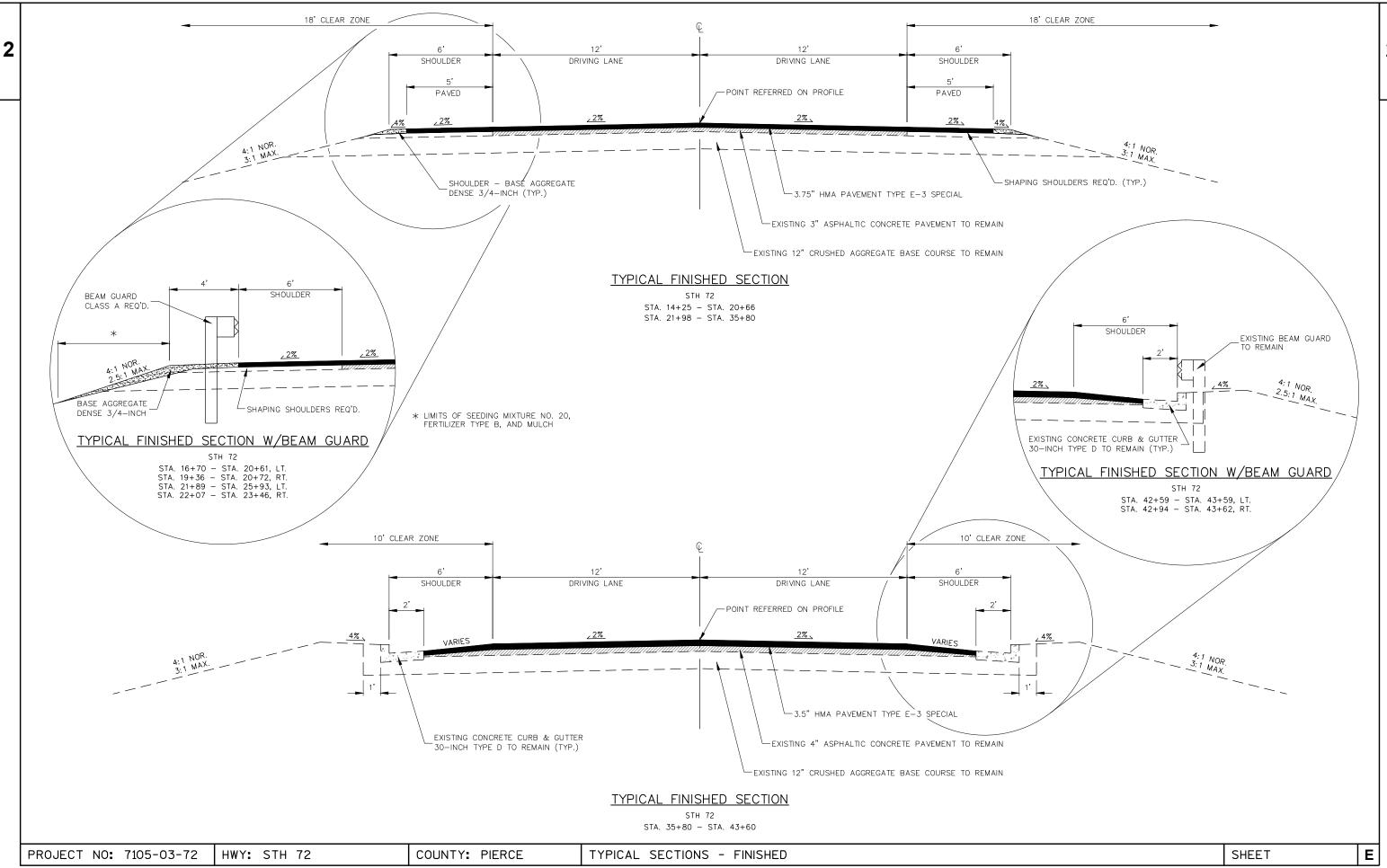


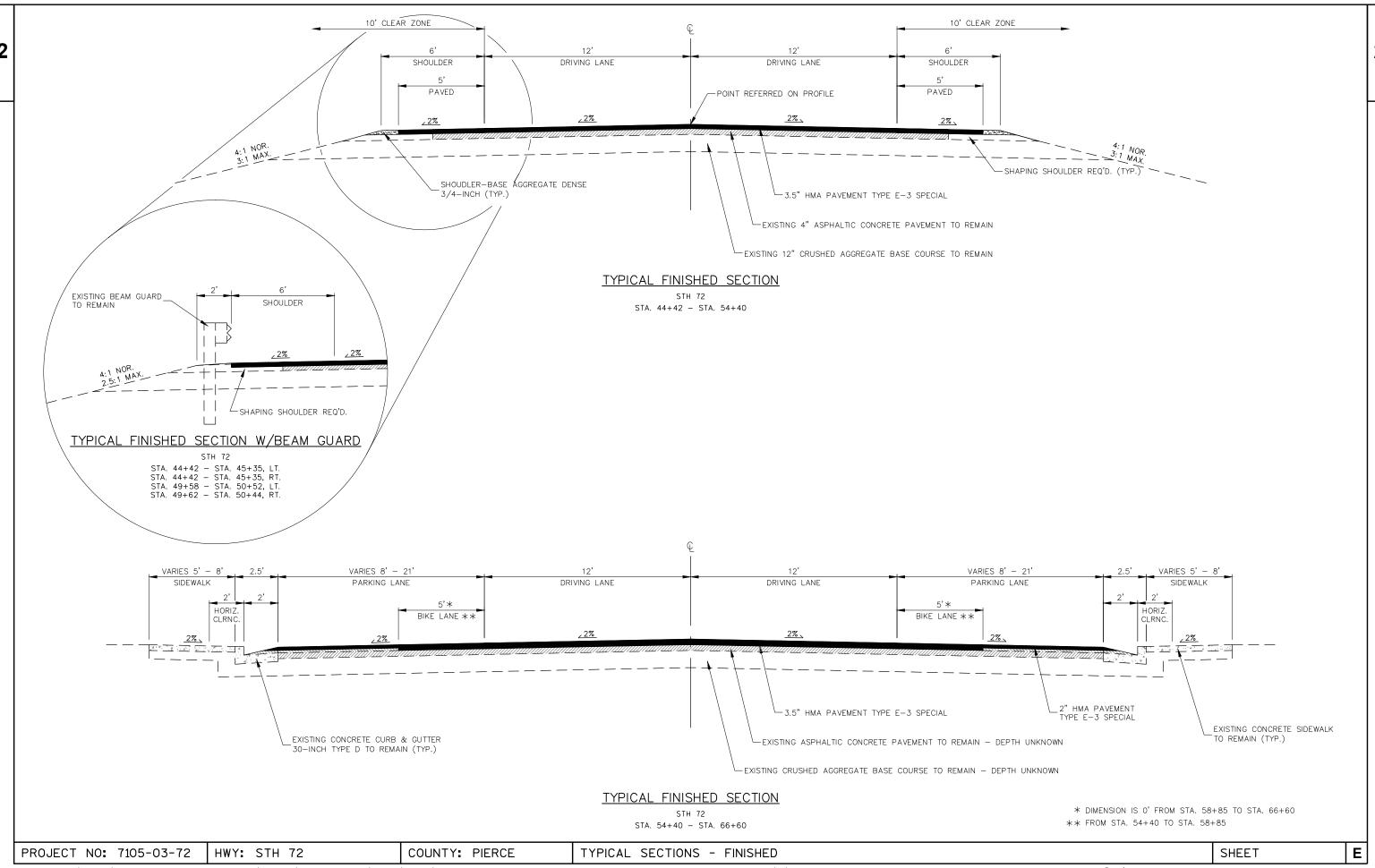


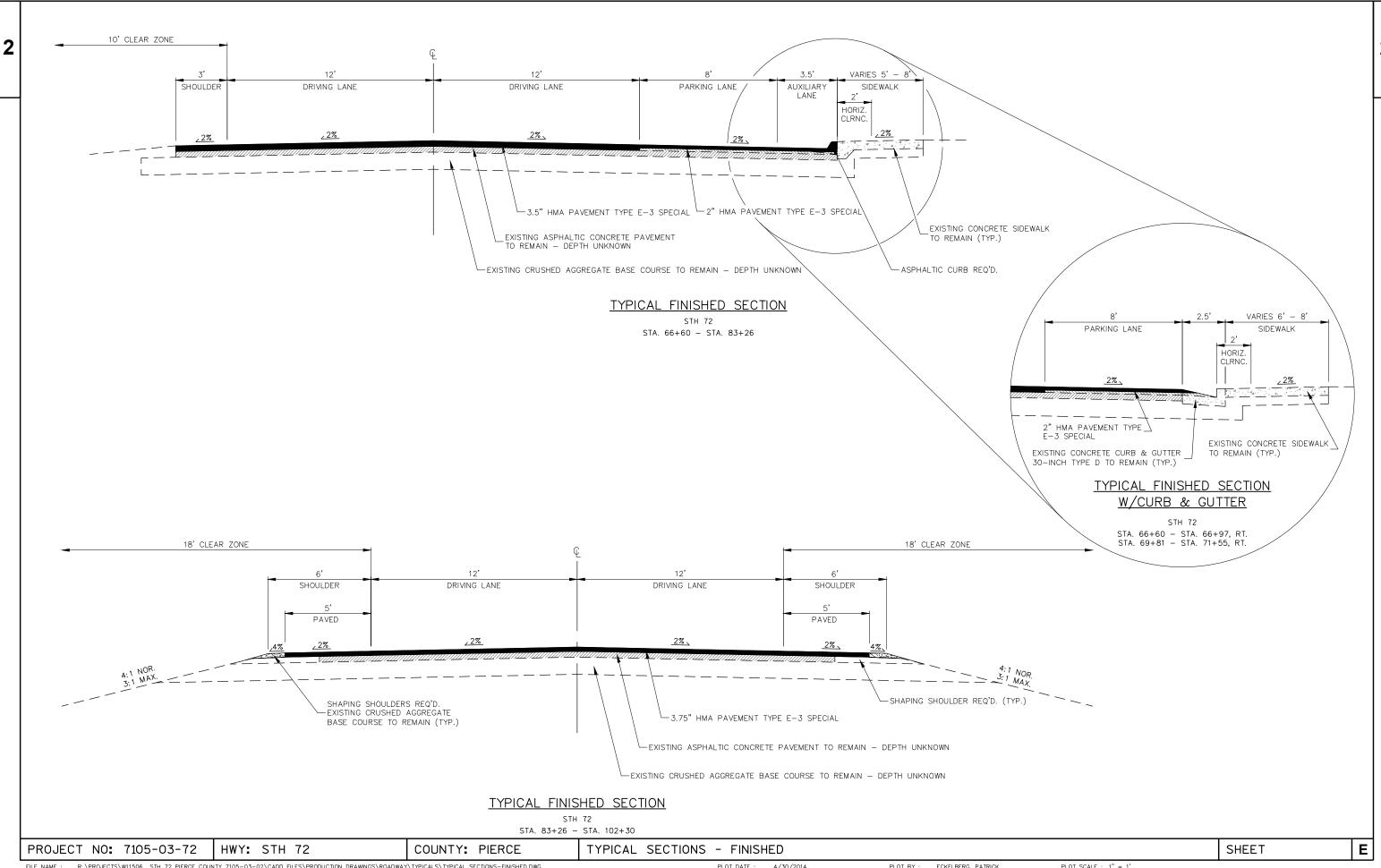












STH 72 SAWING ASPHALT REQ'D. 75' DESIRED - 3.5" ASPHALTIC 50' MIN. PAVEMENT MILLING EXISTING ASPHALT EXISTING ASPHALT 3.75" HMA PAVEMENT TYPE E-3 SPECIAL EXISTING BASE PAID FOR AS REMOVING ASPHALTIC PAVEMENT MILLING PAID FOR AS REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAILS OF TRANSVERSE JOINT NOTE: REQUIRED AT BEGIN AND END OF PAVING LOCATIONS STA. 14+25 - STA. 15+00 STA. 101+55 - STA. 102+30 STH 72 C/L — VARIES - MATCH POINT AT RADII DRIVING SHOULDER 3.5" ASPHALTIC -LANE OF SIDEROAD SAWING ASPHALT REQ'D. PAVEMENT MILLING

BUTT JOINT DETAILS OF HMA PAVEMENT AT SIDEROADS

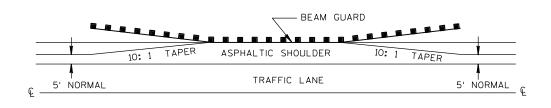
EXISTING ASPHALT

PAID FOR AS REMOVING ASPHALTIC SURFACE BUTT JOINTS

3.5" OR 3.75" HMA PAVEMENT

PROJECT NO: 7105-03-72

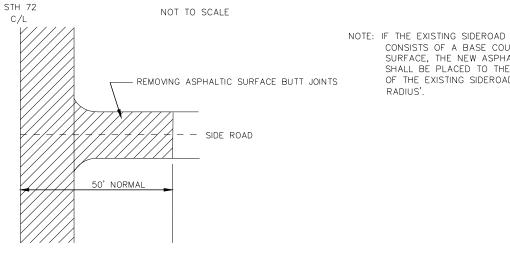
TYPE E-3 SPECIAL



DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

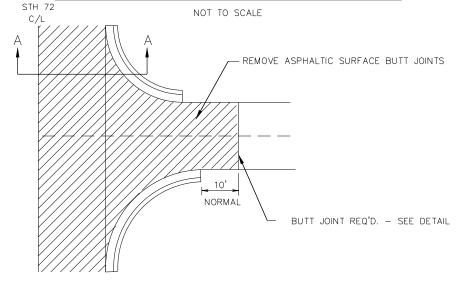
HWY: STH 72

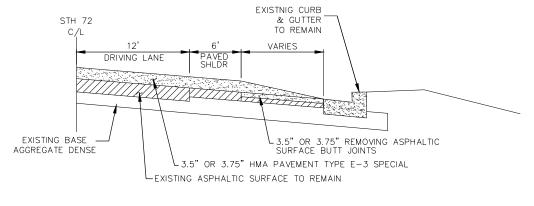
SIDE ROAD DETAIL - NO CURB & GUTTER



CONSISTS OF A BASE COURSE SURFACE, THE NEW ASPHALT SHALL BE PLACED TO THE ENDS OF THE EXISTING SIDEROAD RADIUS'.

SIDEROAD DETAIL - CURB & GUTTER TO REMAIN





SECTION A-A

COUNTY: PIERCE

EXISTING ASPHALT

EXISTING BASE

PAID FOR AS REMOVING ASPHALTIC SURFACE MILLING

CONSTRUCTION DETAILS

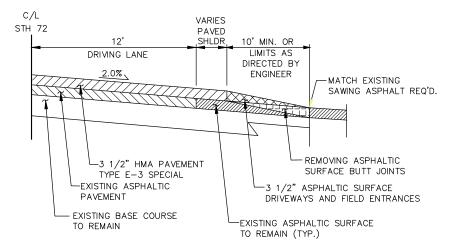
PLOT SCALE : 1'-0" = 1'-0"

SHEET

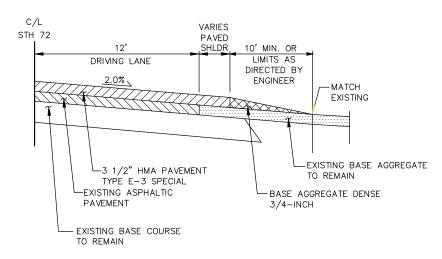
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2

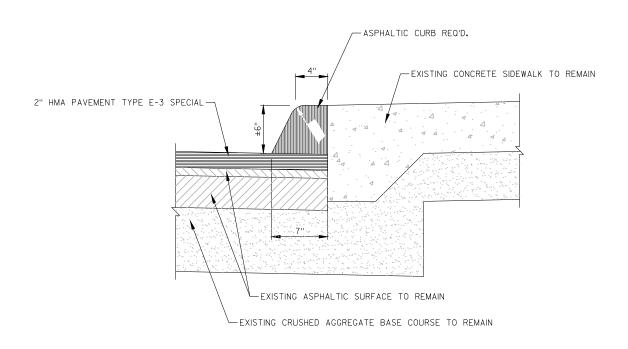
2



TYPICAL ASPHALT DRIVEWAY PROFILE

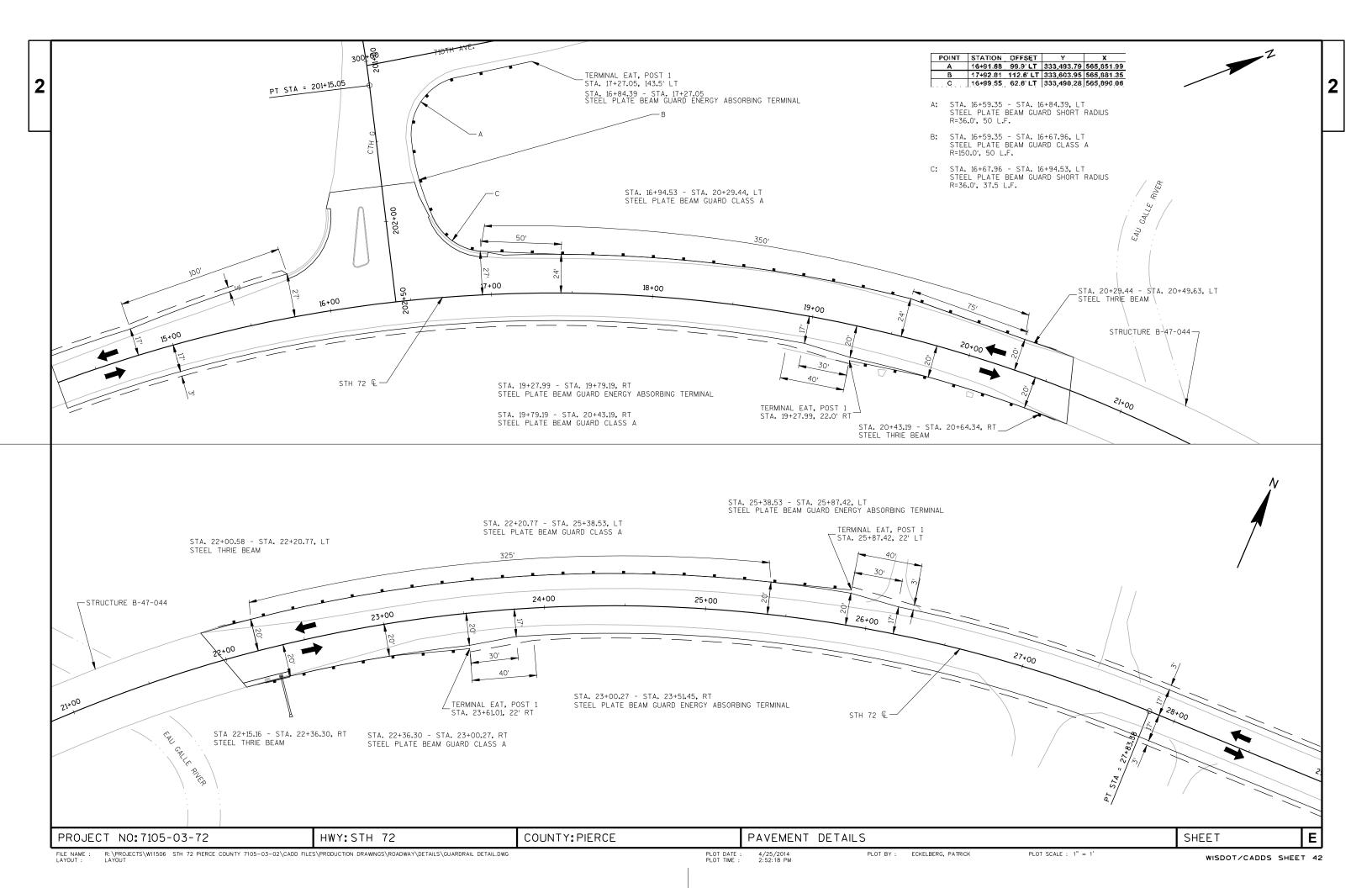


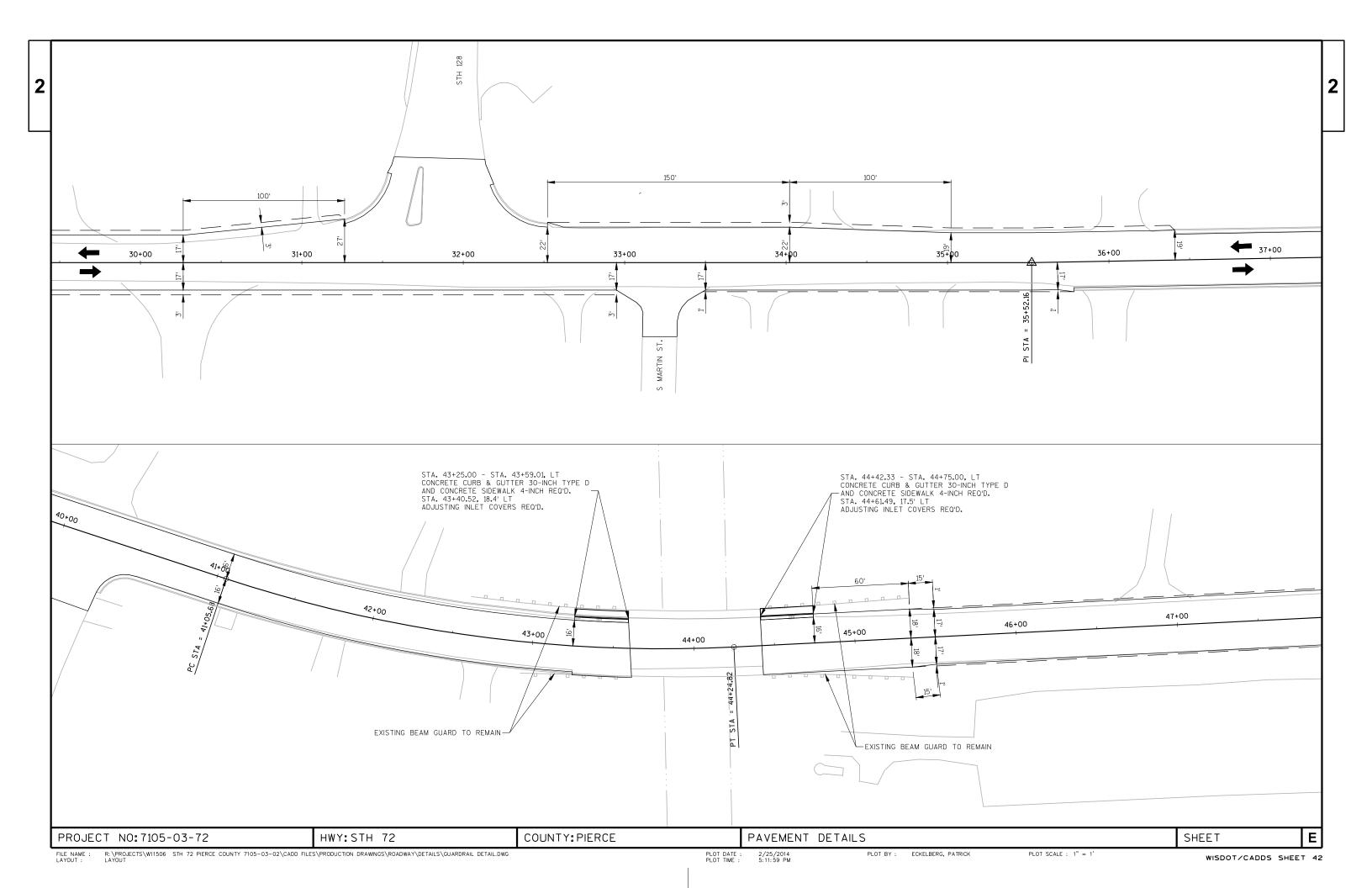
TYPICAL BASE AGGREGATE DENSE DRIVEWAY PROFILE

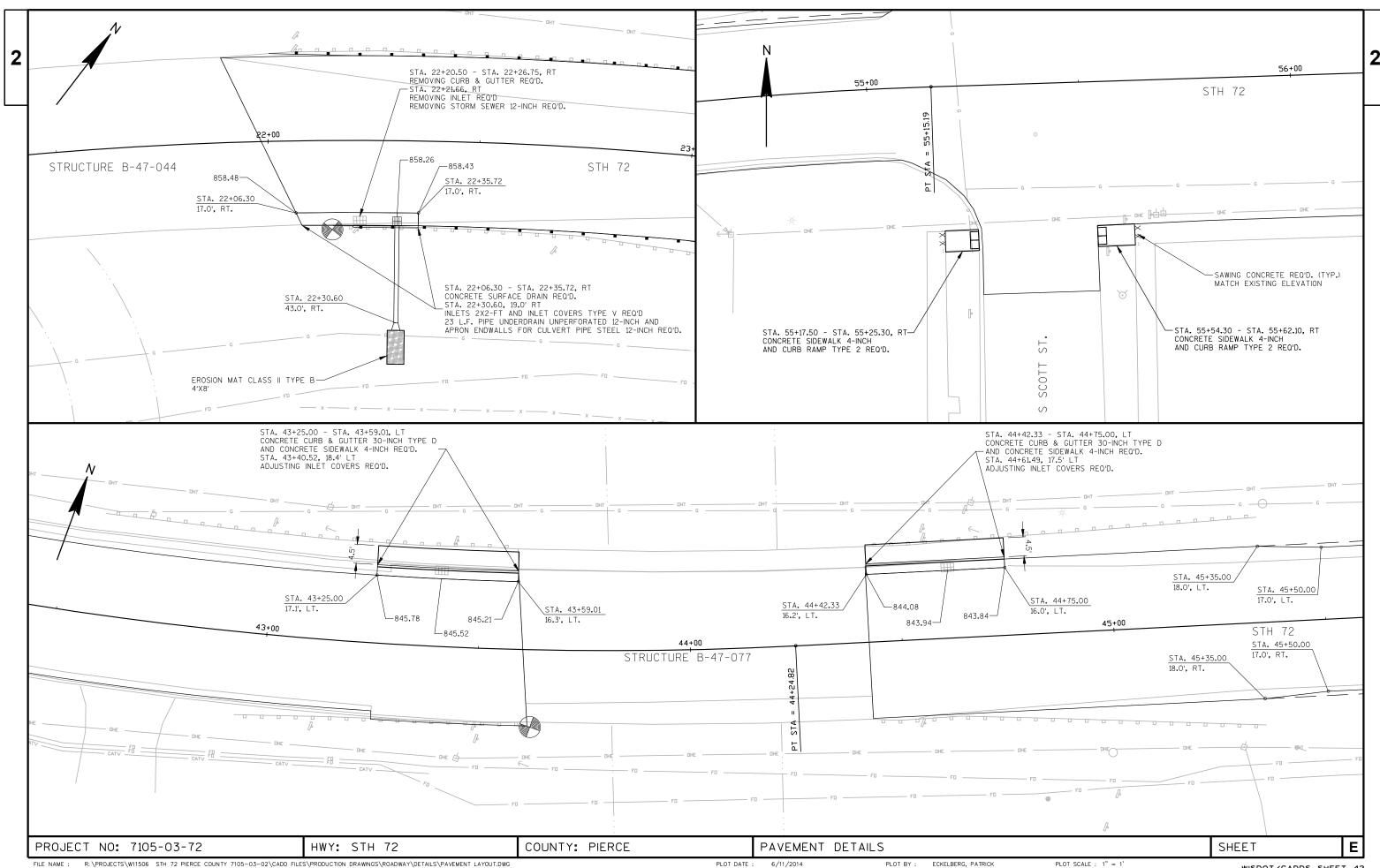


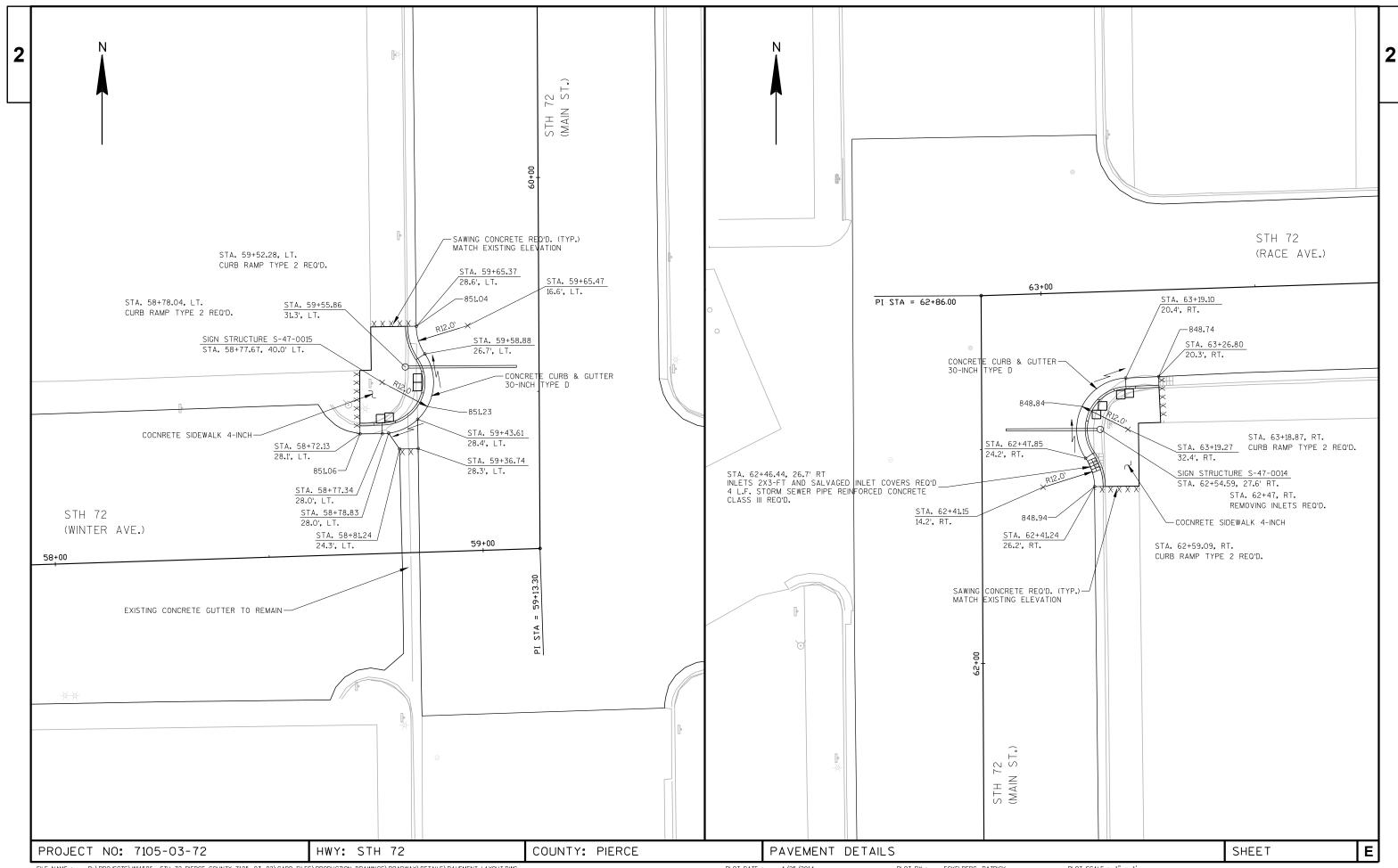
ASPHALTIC CURB DETAIL

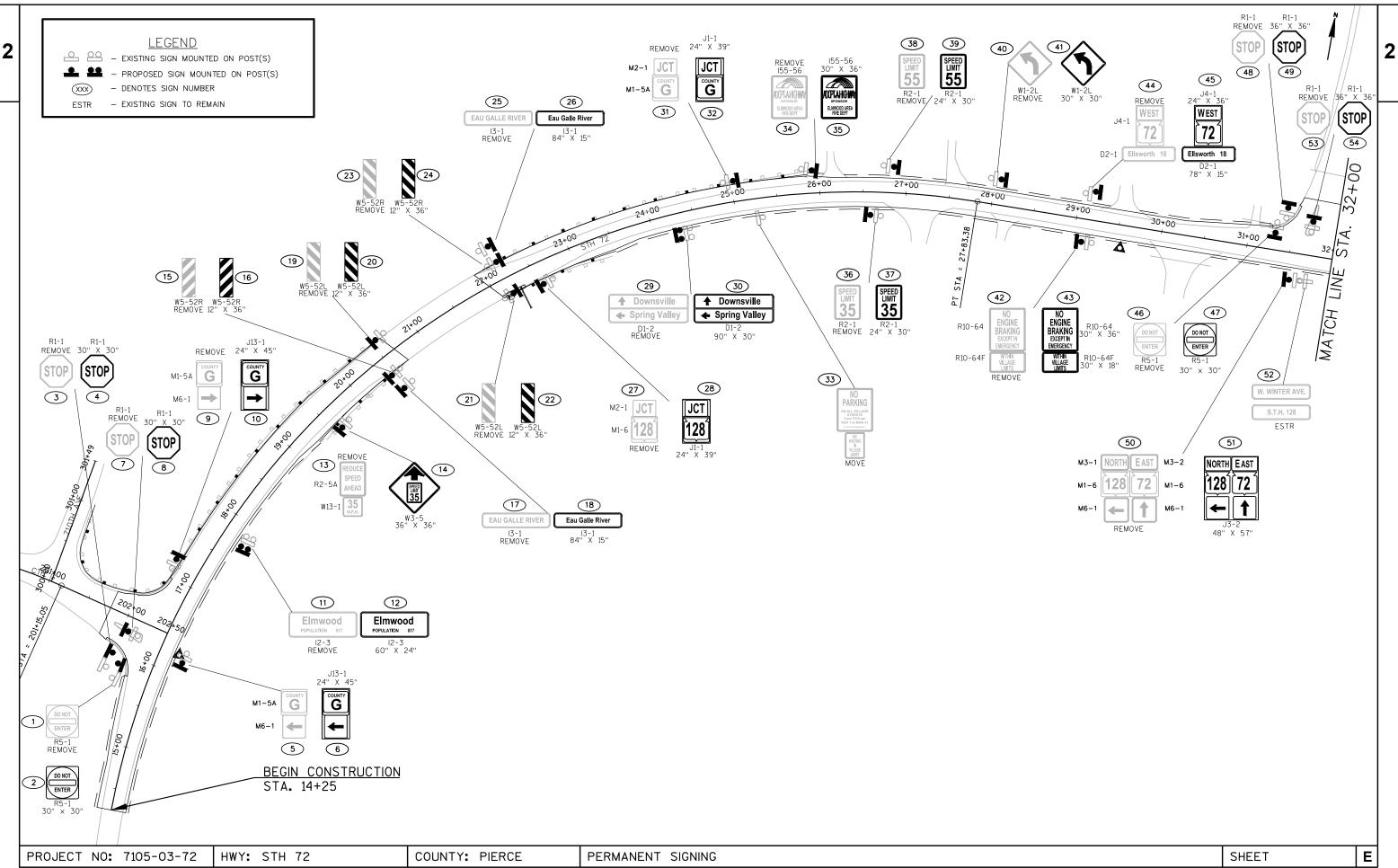
PROJECT NO: 7105-03-72 HWY: STH 72 COUNTY: PIERCE CONSTRUCTION DETAILS

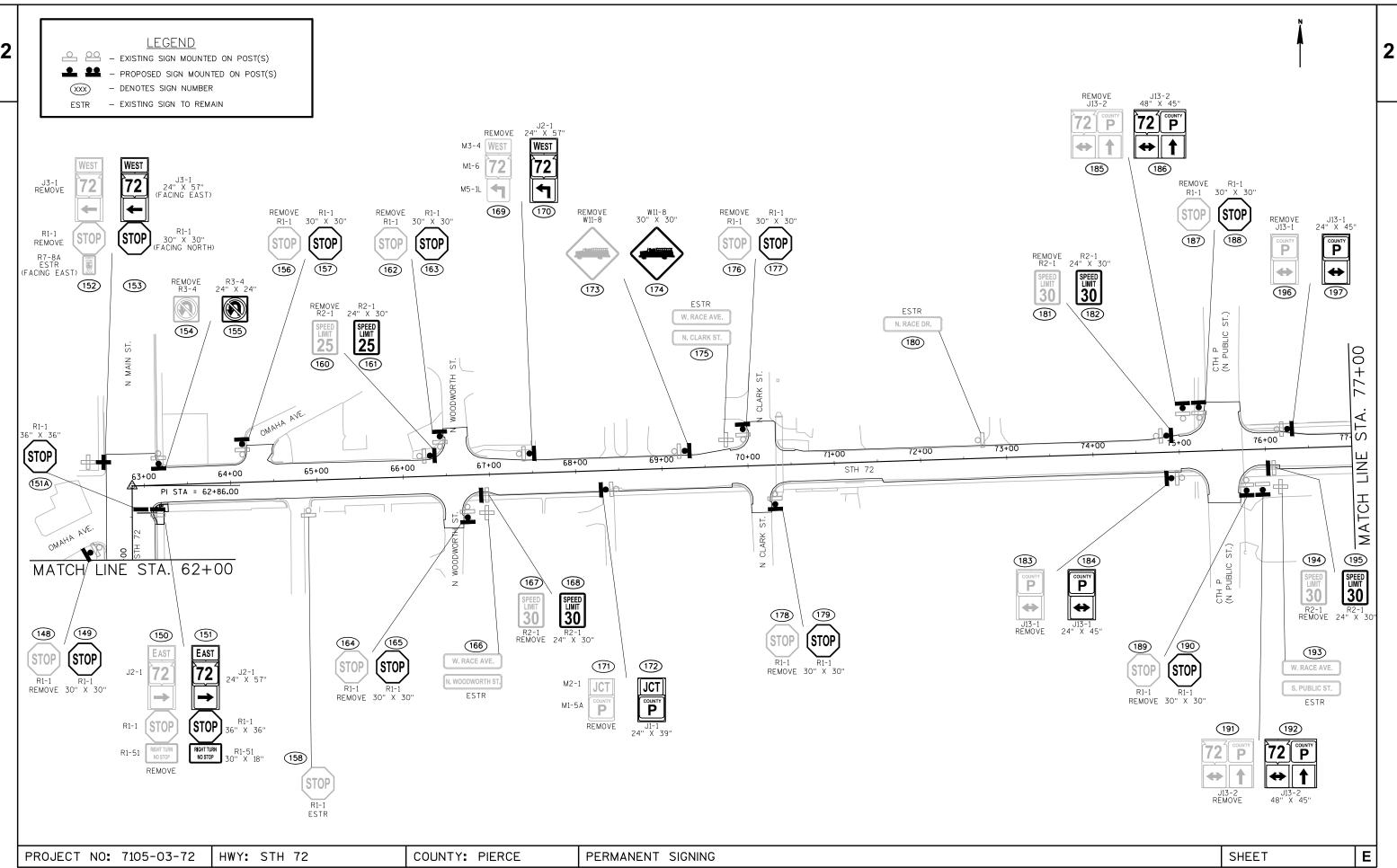












2

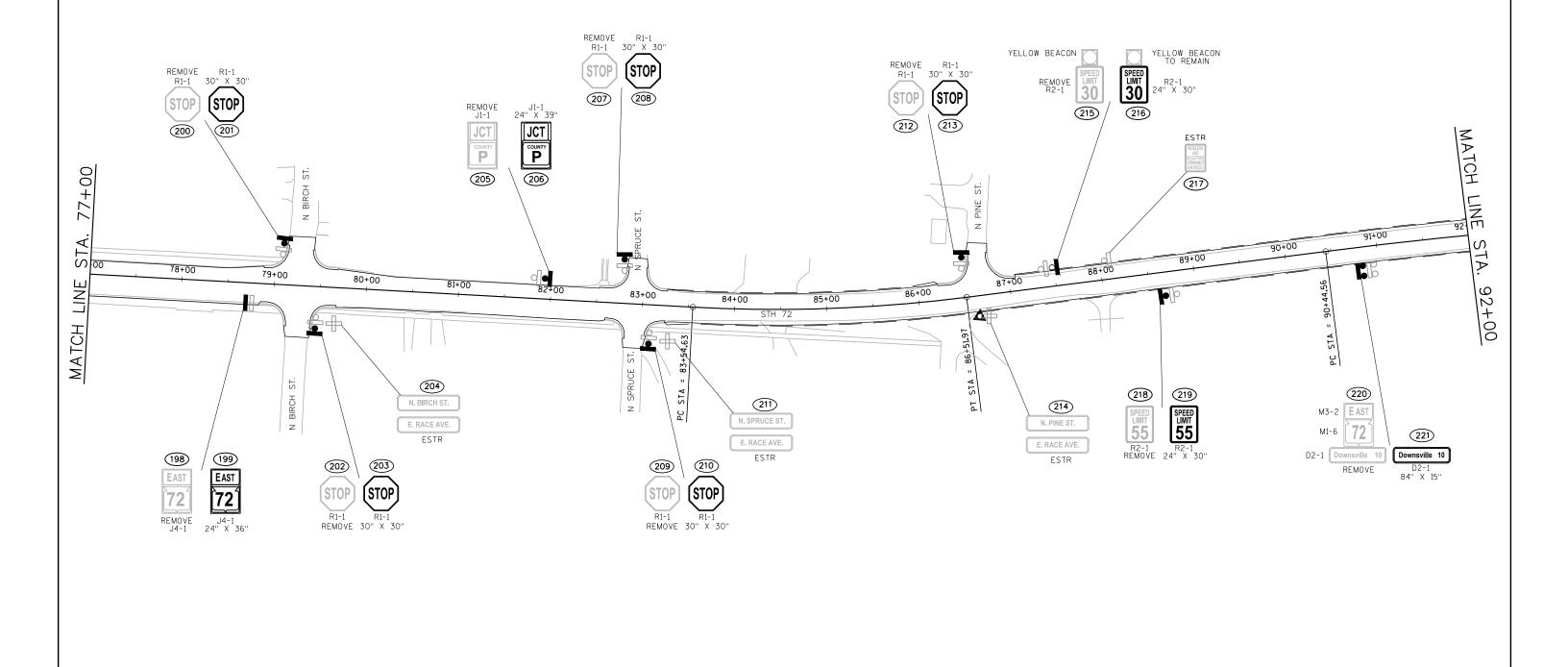
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)

- PROPOSED SIGN MOUNTED ON POST(S)

- DENOTES SIGN NUMBER

ESTR - EXISTING SIGN TO REMAIN



COUNTY: PIERCE

HWY: STH 72

PROJECT NO: 7105-03-72

PERMANENT SIGNING

SHEET

Ε

2

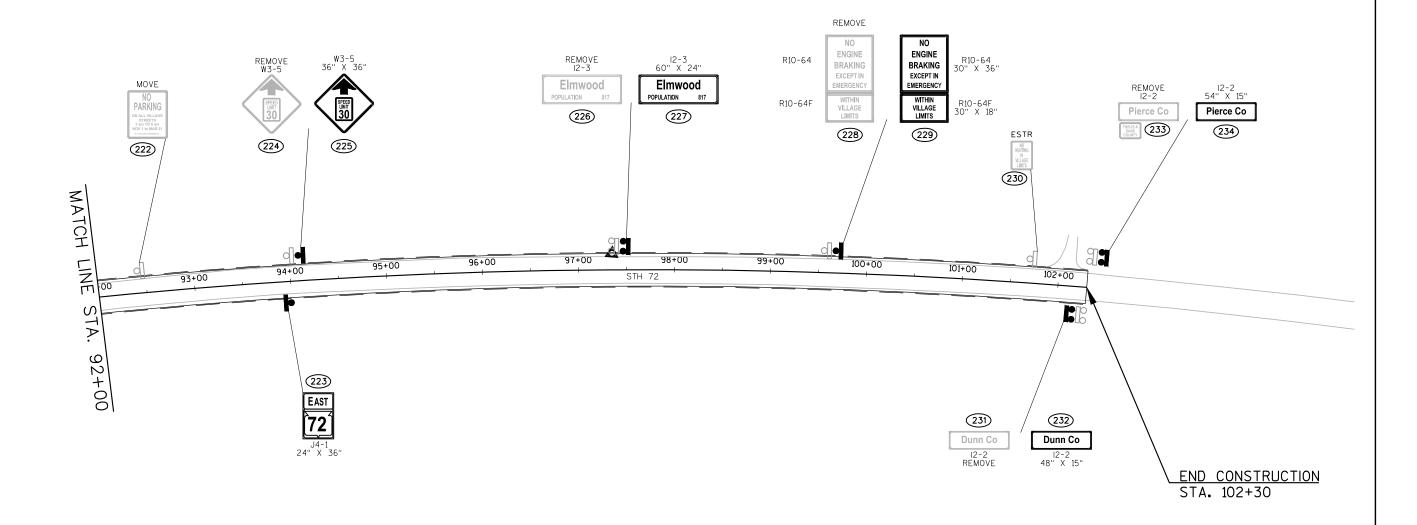
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

- DENOTES SIGN NUMBER

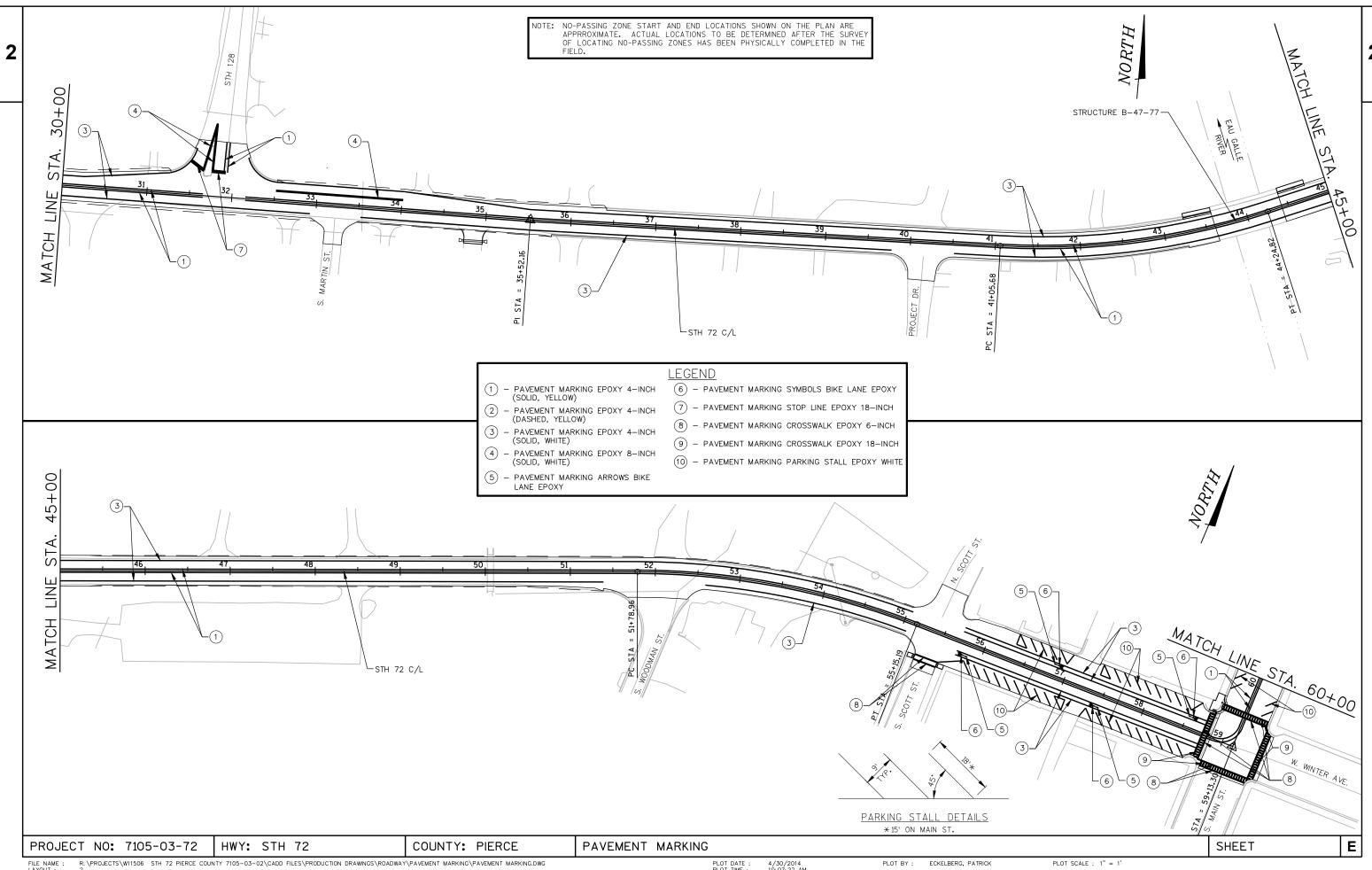
ESTR - EXISTING SIGN TO REMAIN

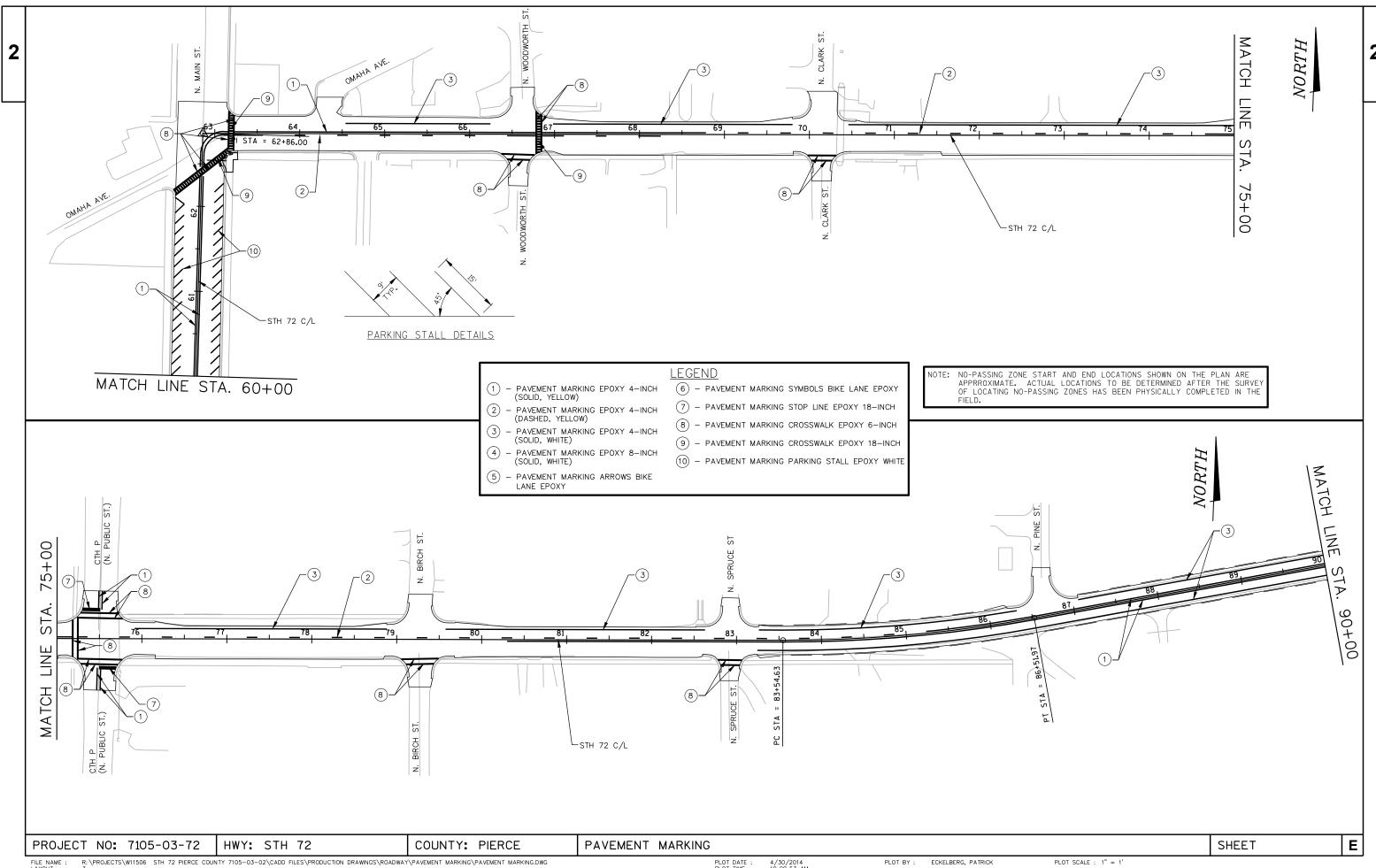


PROJECT NO: 7105-03-72 HWY: STH 72 COUNTY: PIERCE PERMANENT SIGNING SHEET **E**

GENERAL NOTES 1) DRAWINGS NOT SCALE. 2) DESIGN NEW OVERHEAD SIGN SUPPORTS AND ANCHOR BOLT ASSEMBLY FOR OVERHEAD SIGN SUPPORT ACCORDING TO THE LATEST EDITION OF, AND SUPPLEMENTAL TO THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION." 3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS. TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT". SIZE THE ANCHOR BOLT/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE PIER SIGN SUPPORT SHOWN IN THE STRUCTURE PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION. 5) PROVIDE DIESIGN CALCULATIONS. SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION, BLANKS, IF USED, SHALL BE OF THE SAME SIZE AND LOCATION AS PERMANENT SIGNS. (151A) 36" X 36" 36" X 36' EAST (151) 72 J2-1 24" X 57" 138 R1-1 36" X 36" 36" X 36" RIGHT TURN RIGHT TURN 30" X 18" NO STOP NO STOP 2.0% 2.0% 2.0% 2.0% -PROPOSED GROUND -PROPOSED GROUND REFERENCE LINE HIGH POINT-REFERENCE LINE HIGH POINT-ELEVATION = 851.58 ± 0.1 ELEVATION = 849.36 ± 0.1 ELEVATION = 851.55 ± 0.1 ELEVATION = 849.66 ± 0.1 ELEVATION = 851.52 -ELEVATION = 849.25 -24-INCH DIAMETER -24-INCH DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE CANTILEVER OVERHEAD SIGN SUPPORT BASE OVERHEAD SIGN SUPPORT DETAIL OVERHEAD SIGN SUPPORT DETAIL S-47-0014 STA. 62+54.59, 27.6' RT SE QUADRANT MAIN ST AND RACE AVE S-47-0015 STA. 59+55.86, 31.3' LT NW QUADRANT WINTER AVE AND MAIN ST PROJECT NO: 7105-03-72 OVERHEAD SIGN DETAILS - LAYOUT SHEET Ε HWY: STH 72 COUNTY: PIERCE R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\PERMANENT SIGNING\OVERHEAD SIGN DETAILS.DWG 4/25/2014 8: 25: 50 AM PLOT BY : ECKELBERG, PATRICK PLOT SCALE : 1" = 1'

NOTE: NO-PASSING ZONE START AND END LOCATIONS SHOWN ON THE PLAN ARE APPRROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED AFTER THE SURVEY OF LOCATING NO-PASSING ZONES HAS BEEN PHYSICALLY COMPLETED IN THE FIELD. <u>LEGEND</u> 1 - PAVEMENT MARKING EPOXY 4-INCH (SOLID, YELLOW) (6) - PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY 7 - PAVEMENT MARKING STOP LINE EPOXY 18-INCH 2 - PAVEMENT MARKING EPOXY 4-INCH (DASHED, YELLOW) (8) - PAVEMENT MARKING CROSSWALK EPOXY 6-INCH 3 - PAVEMENT MARKING EPOXY 4-INCH (SOLID, WHITE) 9 - PAVEMENT MARKING CROSSWALK EPOXY 18-INCH 4 - PAVEMENT MARKING EPOXY 8-INCH (10) - PAVEMENT MARKING PARKING STALL EPOXY WHITE (SOLID, WHITE) 5 - PAVEMENT MARKING ARROWS BIKE LANE EPOXY -STRUCTURE B-47-44 STH 72 C/L BEGIN PROJECT STA. 14+25 Ε PROJECT NO: 7105-03-72 COUNTY: PIERCE PAVEMENT MARKING SHEET HWY: STH 72



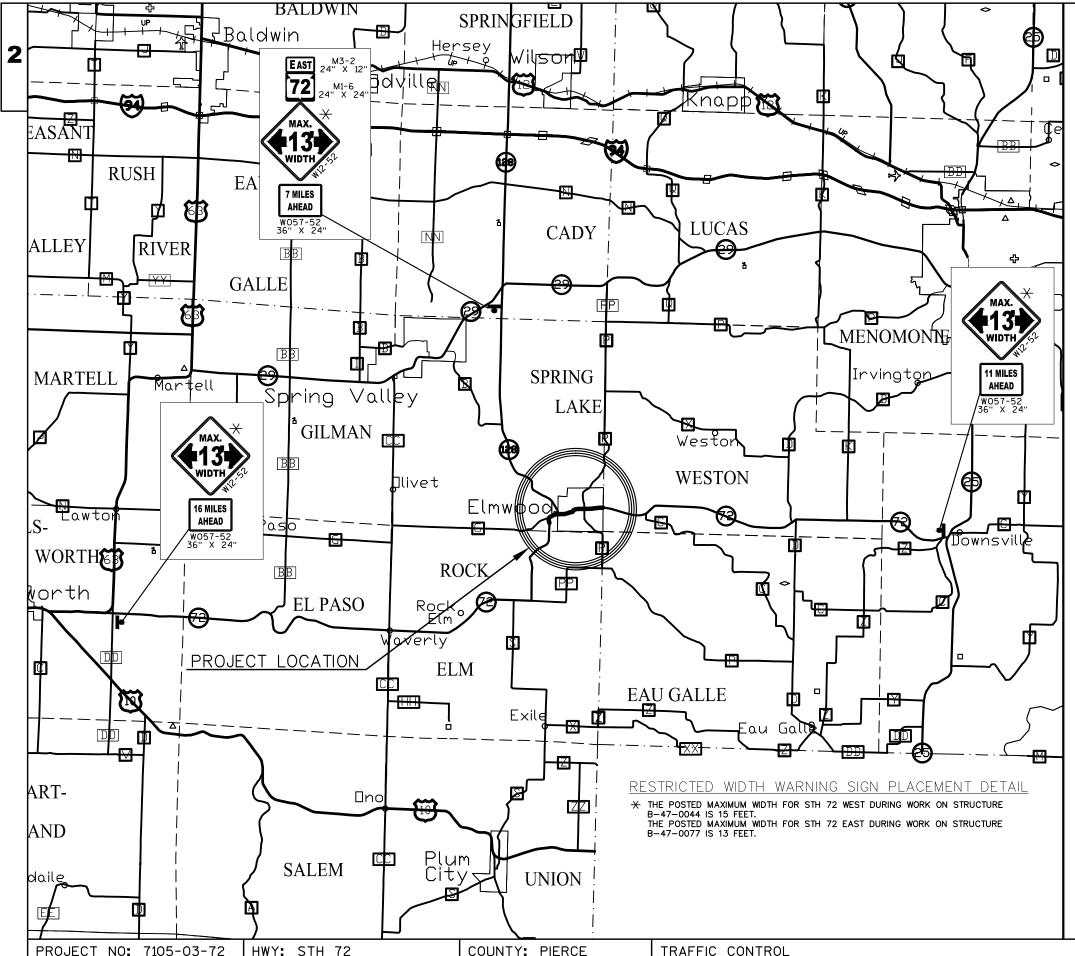


LEGEND NOTE: NO-PASSING ZONE START AND END LOCATIONS SHOWN ON THE PLAN ARE APPRROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED AFTER THE SURVEY OF LOCATING NO-PASSING ZONES HAS BEEN PHYSICALLY COMPLETED IN THE FIELD. 1 - PAVEMENT MARKING EPOXY 4-INCH (SOLID, YELLOW) 6 - PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY NORTH 7 - PAVEMENT MARKING STOP LINE EPOXY 18-INCH - PAVEMENT MARKING EPOXY 4-INCH (DASHED, YELLOW) 8 - PAVEMENT MARKING CROSSWALK EPOXY 6-INCH - PAVEMENT MARKING EPOXY 4-INCH (SOLID, WHITE) 9 - PAVEMENT MARKING CROSSWALK EPOXY 18-INCH - PAVEMENT MARKING EPOXY 8-INCH (10) - PAVEMENT MARKING PARKING STALL EPOXY WHITE (SOLID, WHITE) 5 - PAVEMENT MARKING ARROWS BIKE LANE EPOXY END PROJECT STA. 102+30 MATCH STH 72 C/L JA. 90+00 Ε PROJECT NO: 7105-03-72 HWY: STH 72 COUNTY: PIERCE PAVEMENT MARKING SHEET

FILE NAME: R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\PAVEMENT MARKING\PAVEMENT MARKING.DWG

PLOT DATE : 4/25/2014 PLOT TIME : 3:34:22 PM PLOT BY : ECKELBERG, PATRICK





GENERAL NOTES FOR TRAFFIC CONTROL

STH 72 WILL REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION

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

ALL SIGNS INAPPRORIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.

ALL "W" AND "WO" SIGNS SHALL BE 48" x 48" UNLESS OTHERWISE NOTED.

ALL ROADS AND STREETS WITHIN THE WORK ZONES SHALL BE KEPT ACCESSIBLE FOR EMERGENCY VEHICLES, RESIDENTS AND BUSINESSES.

ANY STOP SIGNS WHICH ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

LAYOUT IS NOT TO SCALE.

ALL SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND MAINTAIN ACCESS TO ALL PROPERTY ABUTTING THE ROADWAY CONSTRUCTION WORK THROUGHOUT THE LIFE OF THE PROJECT.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, LIGHTS, TEMPORARY MARKINGS, FLAGGERS, AND SUCH OTHER SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200' CLEARANCE TO EXISTING SIGNS.

DURING NIGHT SHUTDOWN, ONE LANE IN EACH DIRECTION MUST REMAIN OPEN. (ON A HARD SURFACE, OR BASE AGGREGATE DENSE).

DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS AND DEVICES USED TO DELINEATE A PATH SHALL BE EQUIPPED WITH TYPE "C" (STEADY BURN) LIGHTS.

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

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHODS OR SEQUENCES OF OPERATION.

ROAD MACHINERY, FLAGGERS AHEAD, ETC. SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED AT NIGHTS, ON WEEKENDS OR WHEN THE ACTIVITY DOES NOT EXIST.

ADDITIONAL DRUMS OR TYPE III BARRICADES MAY BE REQUIRED ADJACENT TO DROP-OFFS, OPEN TRENCHES, OR PROTRUSIONS (INCLUDING MANHOLE COVERS AND WATER VALVES). COST TO BE INCLUDED WITH OPERATION WHICH CREATES THE HAZARD.

SHEET

E

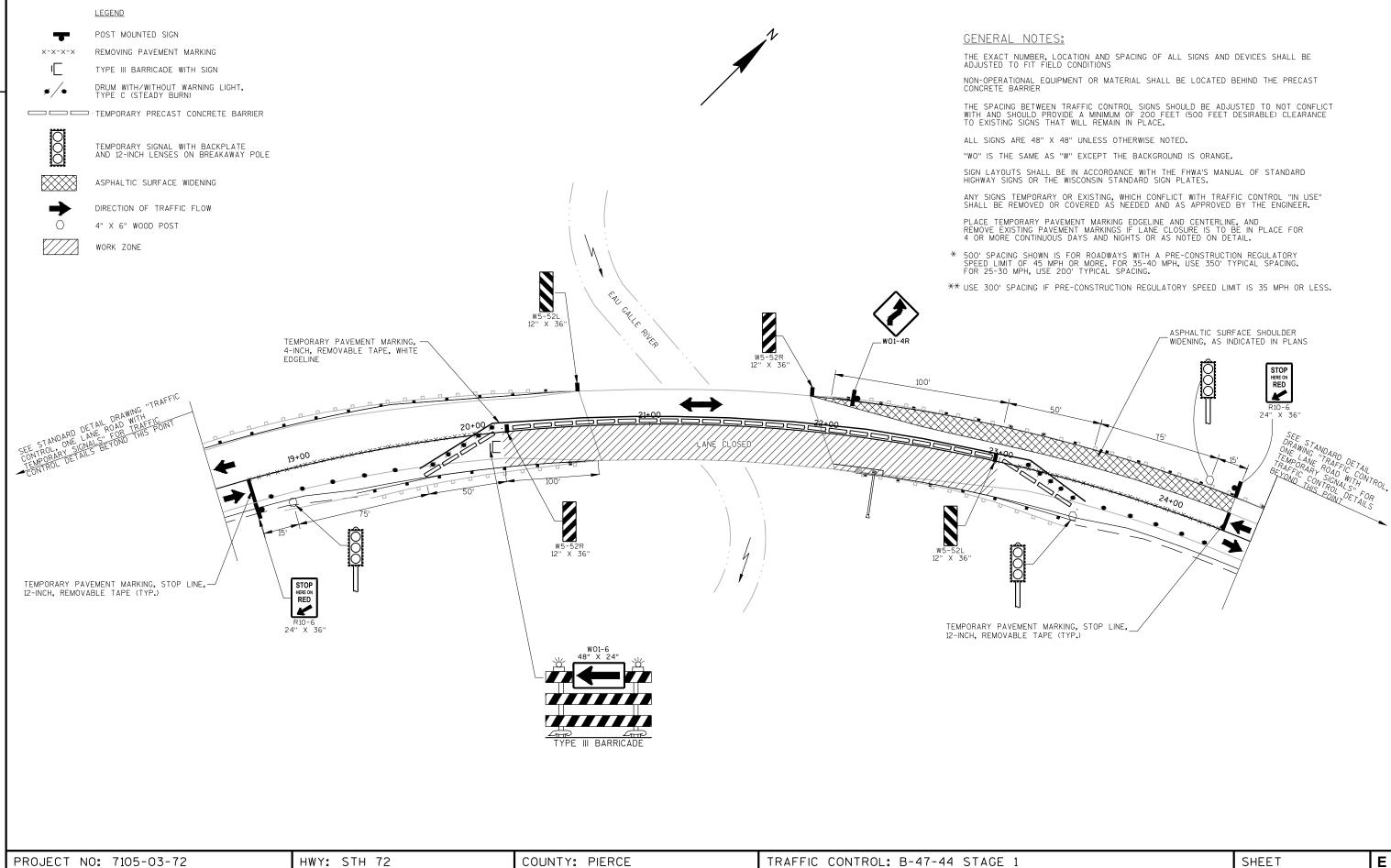
PLOT SCALE : 1" = 1"

R:\PROJECTS\WI1506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\TRAFFIC CONTROL\TRAFFIC CONTROL.DWG

PLOT DATE :

PLOT BY: ECKELBERG, PATRICK

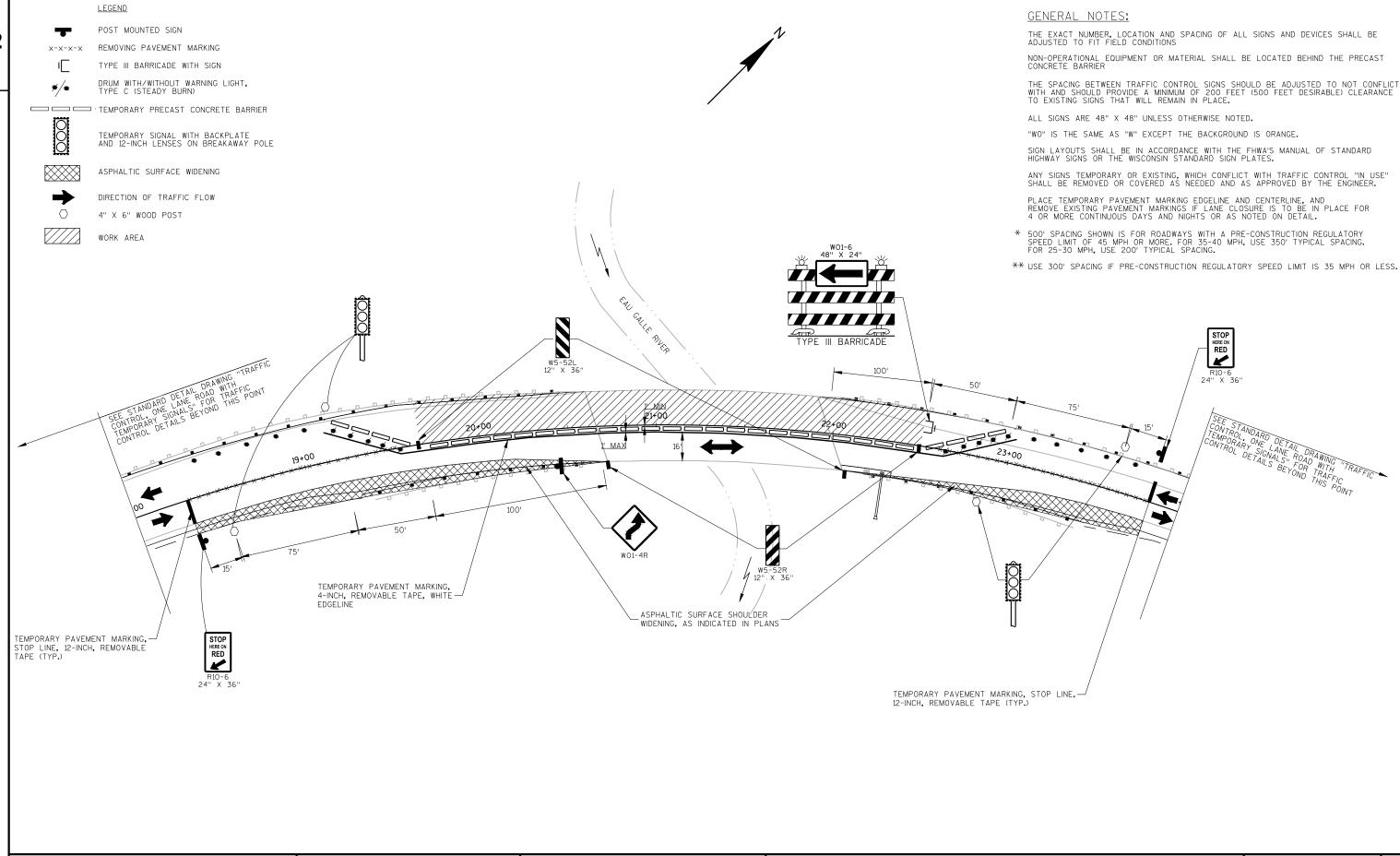




FILE NAME: R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\TRAFFIC CONTROL\TRAFFIC CONTROL TYPICALS.DWG

PLOT DATE: 4/30/2014 PLOT TIME: 10:19:31 AM PLOT BY: ECKELBERG, PATRICK





HWY: STH 72

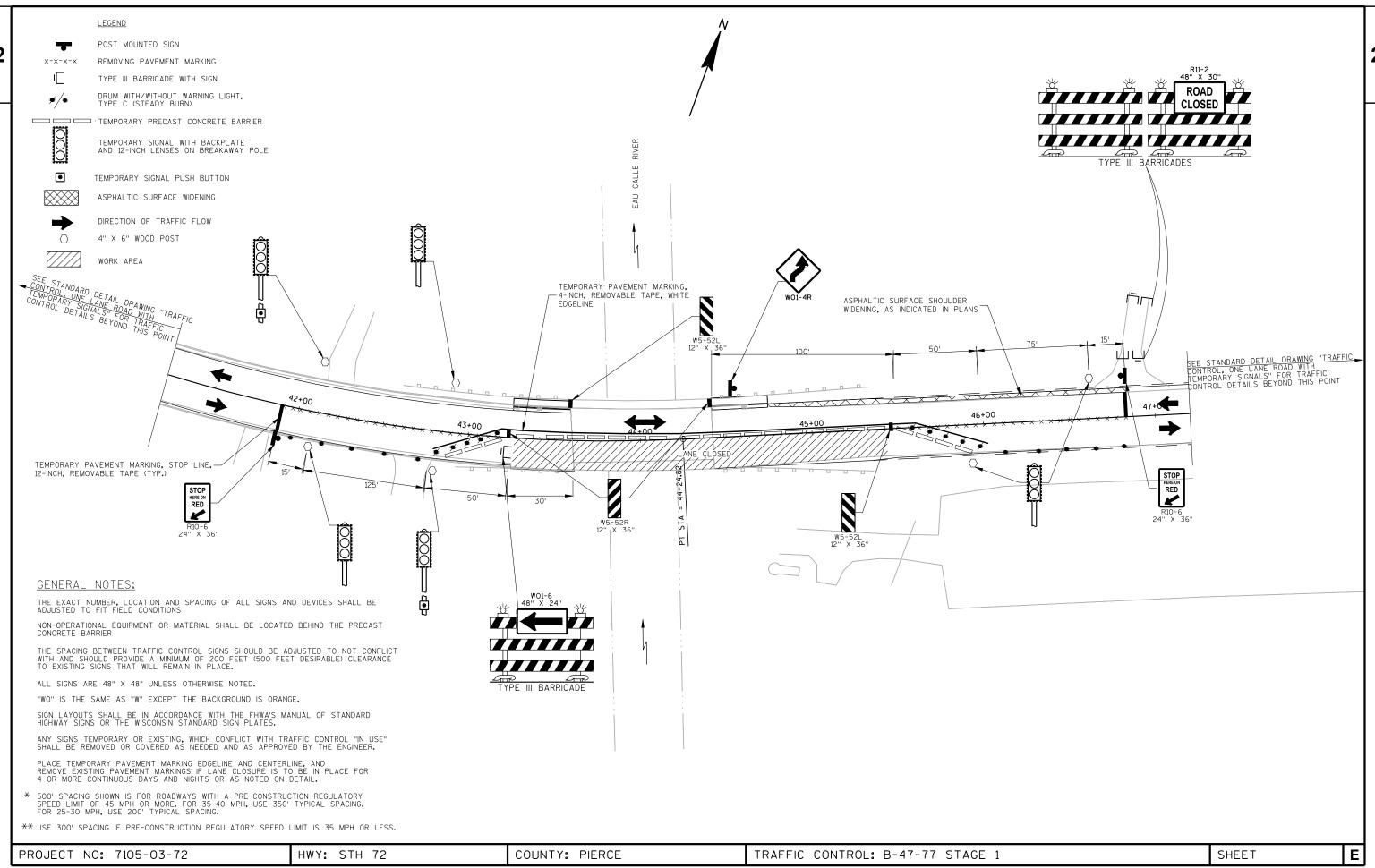
PROJECT NO: 7105-03-72

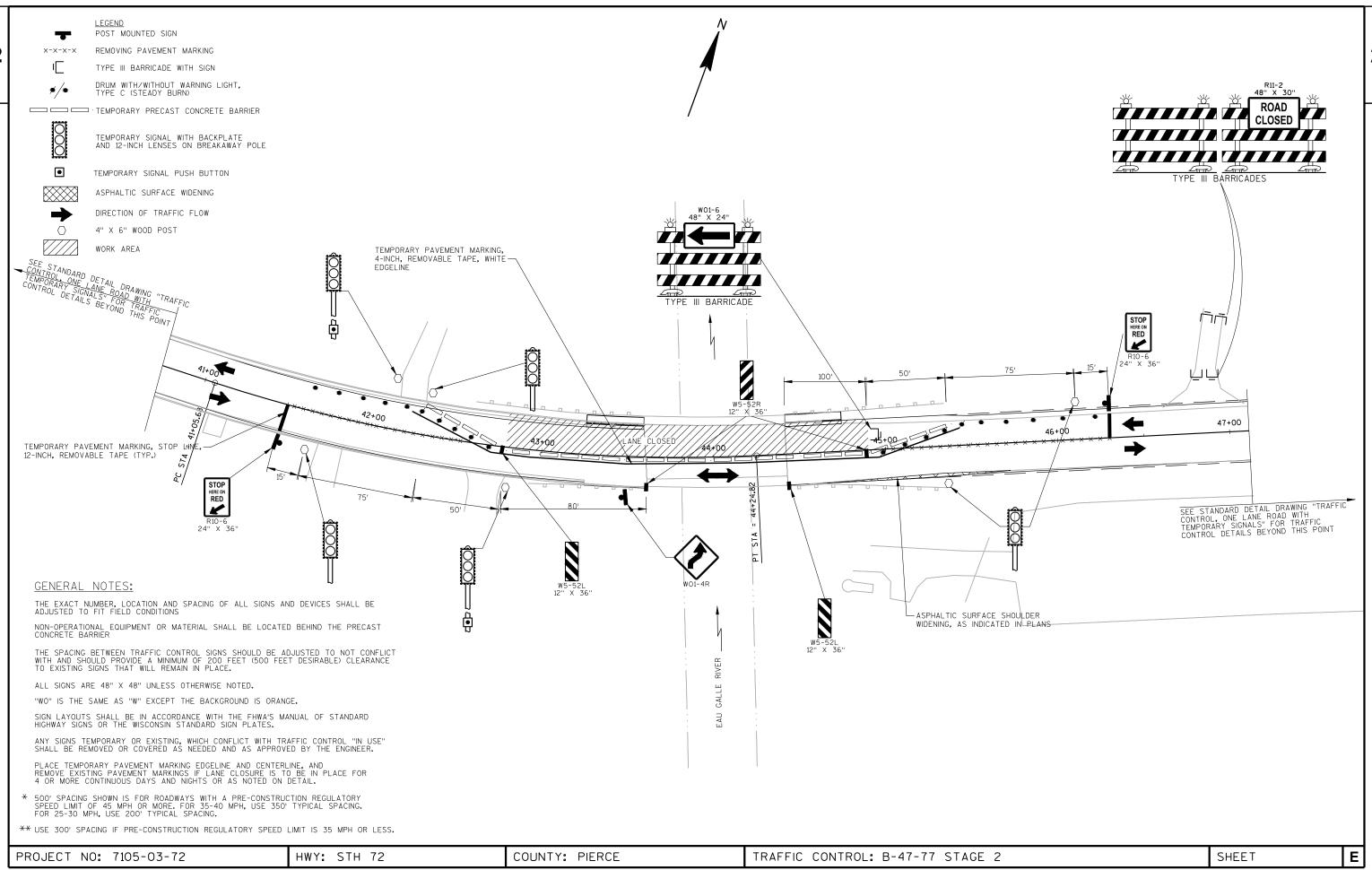
COUNTY: PIERCE

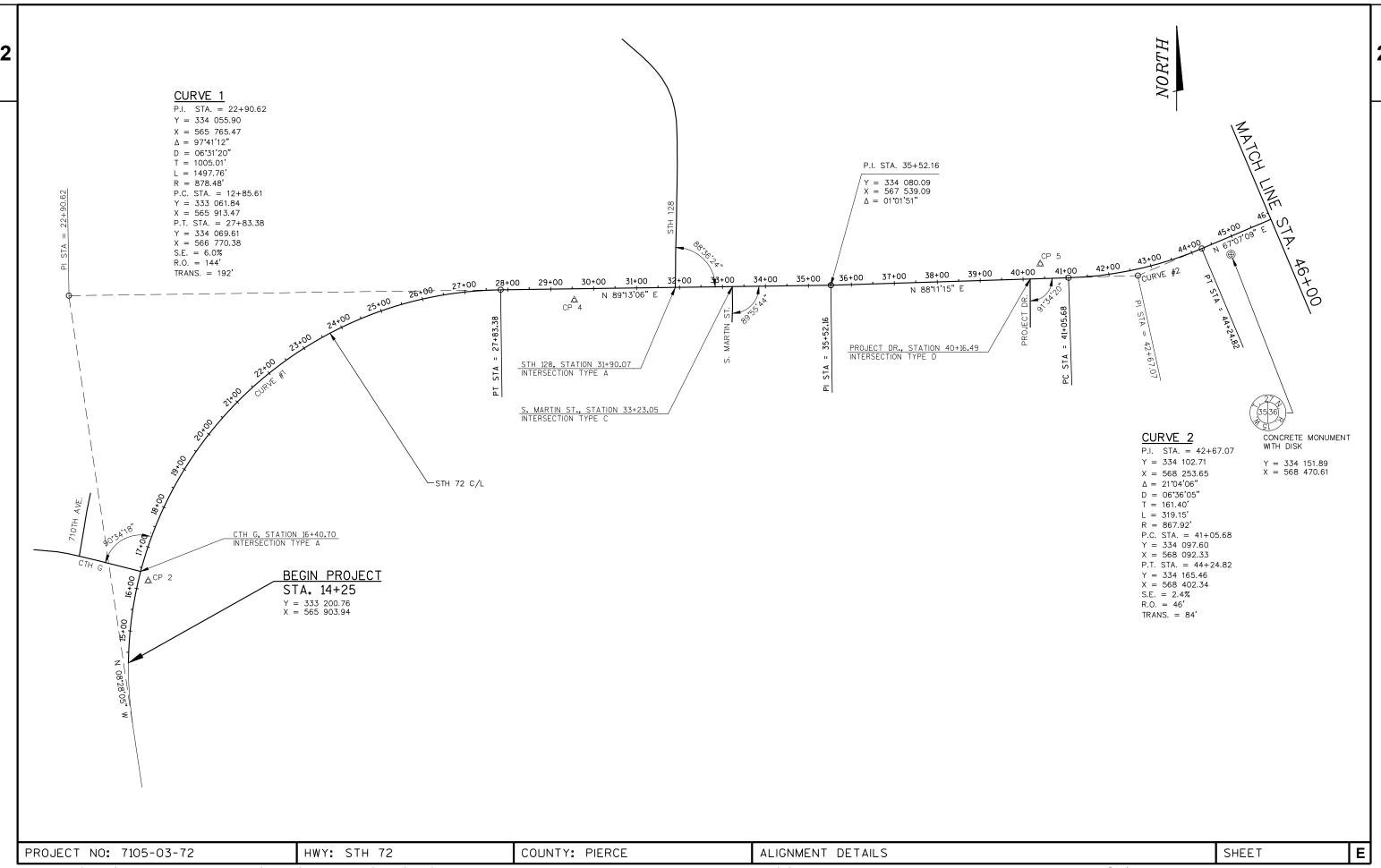
TRAFFIC CONTROL: B-47-44 STAGE 2

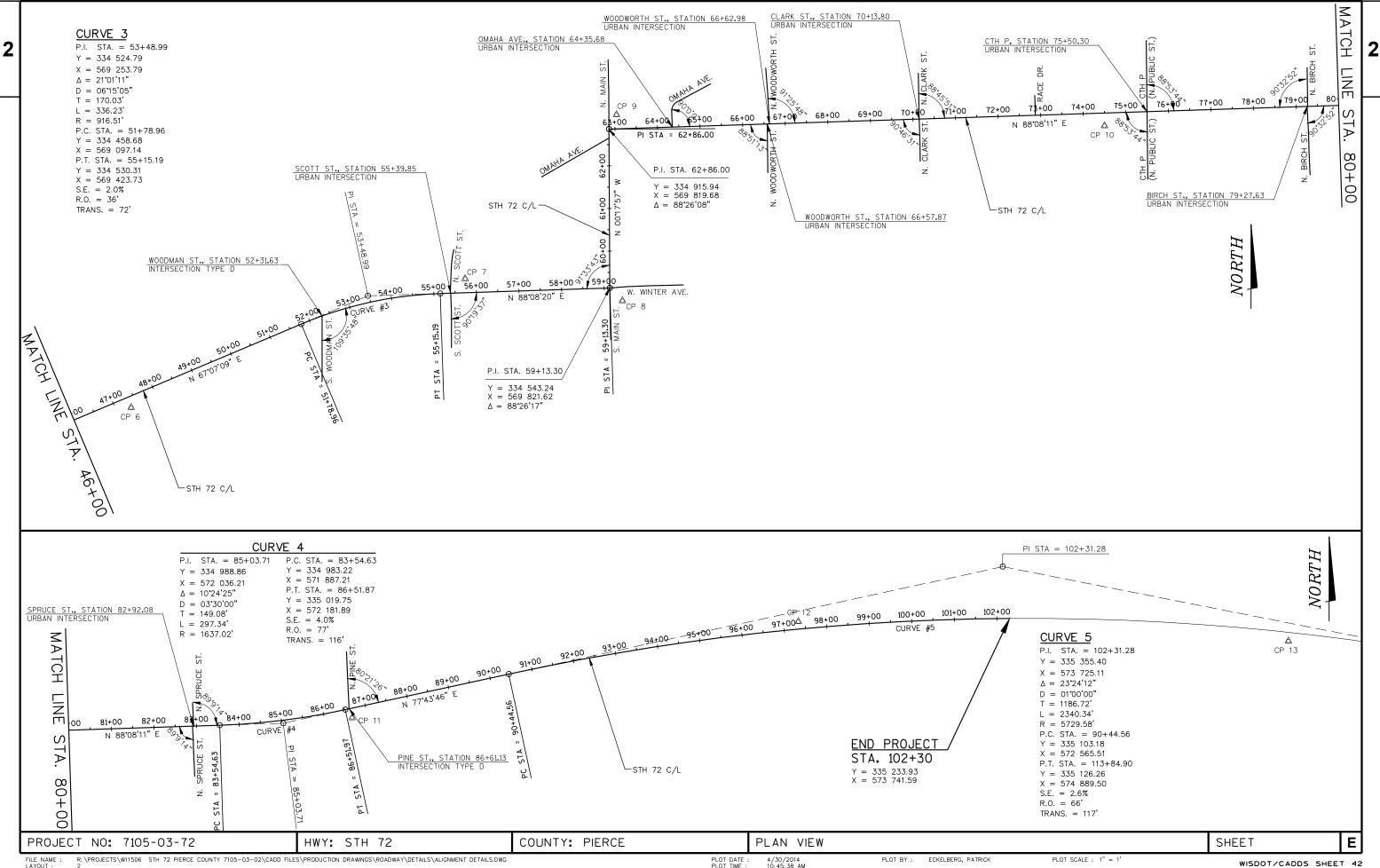
SHEET

Ε









													STATION	LEFT	RIGHT	COMMENT	STATION	LEFT
٦ I		ST	H 72			Si	TH 72			S'	TH 72		14+25.00	6.00%>	6.00%>	BEGIN PROJECT - MATCH EXISTING	51+18.96	2.00% <-
ZI		<u> </u>									11114		14+50.00	6.00% ->	6.00% ->	SECULT NOTES : MINITED TO THE SECULT	51+50.00	0.28% <
_	CTATION	ν	Х	REMARKS	STATION	v	V	REMARKS	STATION	Y		REMARKS						
	STATION	•				Y	X	REMARKS		<u> </u>	X	REMARKS	15+00.00	6.00%>	6.00%>		51+54.96	0.00% -
			565 913.47 565 911.46	P.C. STATION	49+00.00 49+50.00	334 350.22	568 840.13	_	87+00.00 87+50.00	335 029.95 335 040.58	572 228.82 572 277.68		15+50.00	6.00%>	6.00%>		51+78.96	1.33%>
		33 125.82	565 906.32		50+00.00	334 369.66 334 389.10	568 886.20 568 932.26		88+00.00	335 040.56			16+00.00	6.00%>	6.00%>		51+90.96	2.00% ->
—			565 904.02		50+50.00	334 408.54	568 978.33		88+50.00	335 051.21	572 375.39		16+50.00	6.00% ->	6.00% ->		52+00.00	2.00%>
				BEGIN PROJECT		334 427.98	569 024.39	_	89+00.00	335 072.46	572 424.25		17+00.00	6.00%>	6.00%>		52+50.00	2.00%>
			565 904.57	BEGIN FROJECT	51+50.00	334 447.42	569 070.46		89+50.00	335 083.09	572 473.11							2.00% ->
		33 275.63	565 907.95			334 458.68		P.C. STATION	90+00.00	335 093.71	572 521.96	-	17+50.00	6.00%>	6.00%>		53+00.00	
			565 914.17			334 466.64	569 116.62	1.0.01A11011	90+44.56	335 103.18		P.C. STATION	18+00.00	6.00%>	6.00%>		53+50.00	2.00%>
			565 923.20		52+50.00	334 483.74	569 163.60		90+50.00	335 104.34	572 570.82	F.C. STATION	18+50.00	6.00% ->	6.00% ->		54+00.00	2.00% ->
			565 935.01			334 498.25	569 211.44		91+00.00	335 114.70	572 619.74		19+00.00	6.00%>	6.00%>		54+50.00	2.00%>
		33 470.81	565 949.57		53+50.00	334 510.14	569 260.00		91+50.00	335 124.64			19+50.00	6.00% ->	6.00%>		55+00.00	2.00% ->
		33 517.73	565 966.82		54+00.00	334 519.35	569 309.13		92+00.00	335 134.15	572 717.83	_	20+00.00	6.00%>	6.00%>		55+03.19	2.00%>
			565 986.72		54+50.00	334 525.88	569 358.70		92+50.00	335 143.24			20+50.00		6.00% ->		55+15.19	1.33%>
	18+50.00 33		566 009.19		55+00.00	334 529.69	569 408.55		93+00.00	335 151.89	572 816.24			6.00% ->				
		33 651.56	566 034.17		55+15.19	334 530.31		P.T. STATION	93+50.00	335 160.11	572 865.56		21+00.00	6.00%>	6.00%>		55+39.19	0.00% –
	19+50.00 33	33 693.38	566 061.57		55+50.00	334 531.44	569 458.52		94+00.00	335 167.91	572 914.95		21+50.00	6.00%>	6.00%>		55+50.00	0.60% <
	20+00.00 33	33 733.57	566 091.30		56+00.00	334 533.07	569 508.49		94+50.00	335 175.27	572 964.40		22+00.00	6.00%>	6.00%>		55+75.19	2.00% <
		33 772.00	566 123.27		56+50.00	334 534.69	569 558.46		95+00.00	335 182.20	573 013.92		22+50.00	6.00% ->	6.00% ->			
	20+66.16 33	33 784.02	566 134.07	END OF DECK	57+00.00	334 536.31	569 608.44		95+50.00	335 188.69	573 063.49		23+00.00	6.00%>	6.00%>			
		33 808.55	566 157.38		57+50.00	334 537.94	569 658.41		96+00.00	335 194.76	573 113.13		23+50.00	6.00% ->	6.00%>			
- 1			566 193.51		58+00.00	334 539.56	569 708.39		96+50.00	335 200.39	573 162.81						82+64.30	2.00% <
- 1			566 230.49	END OF DECK	** ****	334 541.18	569 758.36		97+00.00	335 205.59	573 212.54		24+00.00	6.00%>	6.00%>			
- 1		33 875.55	566 231.54			334 542.81	569 808.33		97+50.00	335 210.35	573 262.31		24+50.00	6.00% ->	6.00% ->		83+00.00	2.00% <-
- 1		33 905.77	566 271.37		59+13.30	334 543.24	569 821.62	P.I. STATION	98+00.00	335 214.68	573 312.12		25+00.00	6.00%>	6.00%>		83+03.30	2.00% <
- 1			566 312.84			334 579.94	569 821.43		98+50.00	335 218.57			25+50.00	6.00%>	6.00%>		83+41.80	2.00% <
J			566 355.84		60+00.00	334 629.94	569 821.17		99+00.00	335 222.03	573 411.85		26+00.00	6.00%>	6.00%>		83+50.00	2.43% <
- 1		33 982.21	566 400.22		60+50.00	334 679.94	569 820.91		99+50.00	335 225.05	573 461.76		26+50.00	6.00%>	6.00%>		83+54.63	2.67% <-
- 1			566 445.83		61+00.00 61+50.00	334 729.94 334 779.94	569 820.65	 	100+00.00	335 227.64	573 511.69						83+80.30	4.00% <-
		34 020.50	566 492.54			334 779.94	569 820.39		100+50.00	335 229.79	573 561.64 573 611.61	-	27+00.00	6.00% ->	6.00% ->			
		34 035.64 34 048.05	566 540.18 566 588.61		62+50.00	334 879.94	569 820.13 569 819.86		101+50.00	335 231.51 335 232.79	573 661.60		27+35.38	6.00%>		END FULL SUPER	84+00.00	4.00% <
		34 057.69	566 637.67		62+86.00	334 915.94	569 819.68	P.I. STATION	102+00.00	335 232.79	573 711.59		27+50.00	5.39% ->	5.39% ->		84+50.00	4.00% <-
			566 687.19		63+00.00	334 916.40	569 833.67	13.017411011	102+30.00			END PROJECT	27+83.38	4.00%>	4.00%>	P.T. STATION	85+00.00	4.00% <
		34 068.52	566 737.02		63+50.00	334 918.02	569 883.64		102+50.00		573 761.59	END I NOOCOT	28+00.00	3.31% ->	3.31%>		85+50.00	4.00% <
		34 069.61	566 770.38	P.T. STATION	64+00.00	334 919.65	569 933.61		103+00.00	335 234.01	573 811.59		28+31.38	2.00%>	2.00%>	BC.	86+00.00	4.00% <
		34 069.83	566 787.00		64+50.00	334 921.27	569 983.59		103+50.00	335 233.54	573 861.59		28+50.00	1.22% ->	2.00% ->		86+26.20	4.00% <-
			566 837.00			334 922 90	570 033.56		104+00.00	335 232.64	573 911.58						86+50.00	2.76% <-
	29+00.00 33	34 071.20	566 886.99		65+50.00	334 924.53	570 083.53		104+50.00	335 231.30	573 961.56		28+79.38	0.00%	2.00%>			
	29+50.00 33	34 071.88	566 936.99		66+00.00	334 926.15	570 133.51		105+00.00	335 229.53	574 011.53		29+00.00	0.86% <-	2.00%>		86+51.87	2.67% <
			566 986.98			334 927.78	570 183.48		105+50.00	335 227.32	574 061.48		29+27.38	2.00% <	2.00%>	BEGIN NORMAL CROWN - END SUPER	86+64.70	2.00% <-
			567 036.98		67+00.00	334 929.40	570 233.46		106+00.00	335 224.67							87+00.00	2.00% <
			567 086.97		67+50.00	334 931.03	570 283.43		106+50.00	335 221.59	574 161.31				CURV	E2	87+03.20	2.00% <-
			567 136.97		68+00.00	334 932.66	570 333.40		107+00.00	335 218.07	574 211.19						87+42.20	2.00% <
			567 186.97			334 934.28	570 383.38		107+50.00	335 214.12	574 261.03		40+37.01	2.00% <	2 00% ~>	END NORMAL CROWN - BEGIN SUPER		•
			567 236.96		69+00.00	334 935.91	570 433.35		108+00.00		574 310.84		40+50.00	2.00% <	1.32% ->	ZIVE ITO INMAE ONO THE PEON OF EN		
			567 286.96		69+50.00	334 937.54	570 483.32		108+50.00		574 360.61							
		34 077.34	567 336.95		70+00.00	334 939.16 334 940.79	570 533.30		109+00.00	335 199.65	574 410.33		40+75.01	2.00% <	0.00%			
			567 386.95 567 436.94		70+50.00 71+00.00	334 940.79	570 583.27 570 633.24	_	110+00.00		574 460.00 574 509.63		41+00.00	2.00% <	1.30% <		89+49.56	2.00% <
			567 486.94		71+50.00	334 944.04	570 683.22	 	110+50.00	335 181.29	574 559.20		41+05.68	2.00% <	1.60% <	P.C. STATION	89+50.00	1.98% <
		34 080.06	567 536.93		72+00.00	334 945.67	570 733.19		111+00.00	335 174.30	574 608.71		41+13.35	2.00% <	2.00% <	RC	90+00.00	0.02% <-
- 1		34 080.09	567 539.09	P.I. STATION	72+50.00	334 947.29	570 783.16		111+50.00	335 166.88	574 658.15		41+21.01	2.40% <	2.40% <	BEGIN FULL SUPER	90+00.56	0.00%
			567 586.91		73+00.00	334 948.92	570 833.14		112+00.00		574 707.53		41+50.00	2.40% <	2.40% <		90+44.56	1.73% ->
- 1			567 636.88			334 950.54			112+50.00	335 150.75	574 756.84		42+00.00	2.40% <	2.40% <		90+50.00	1.95% ->
- 1			567 686.86		74+00.00	334 952.17	570 933.08		113+00.00	335 142.04	574 806.08		42+50.00		2.40% <-		90+51.33	2.00%>
ı	37+50.00 33				74+50.00	334 953.80	570 983.06			335 132.89				2.40% <-			90+66.56	2.60% ->
- 1			567 786.81			334 955.42			113+84.90	335 126.26	574 889.50	P.T. STATION	43+00.00	2.40% <	2.40% <			
ı			567 836.78			334 957.05							43+50.00	2.40% <-	2.40% <		91+00.00	2.60%>
- 1			567 886.76			334 958.67							44+00.00	2.40% <	2.40% <		91+50.00	2.60% ->
1			567 936.73			334 960.30							44+09.49	2.40% <	2.40% <	END FULL SUPER	92+00.00	2.60%>
Į			567 986.71			334 961.93							44+17.15	2.00% <	2.00% <	RC	92+50.00	2.60%>
- 1			568 036.68			334 963.55		 					44+24.82	2.00% <		P.T. STATION	93+00.00	2.60% ->
ı			568 086.66 568 092.33	P.C. STATION		334 965.18 334 966.80							44+50.00	2.00% <	0.29% <		93+50.00	2.60%>
				P.C. STATION		334 966.80		-									94+00.00	2.60% ->
ı			568 136.58 568 186.26			334 966.43		 					44+55.49	2.00% <	0.00%-		94+50.00	2.60%>
			568 235.54			334 971.68		-					44+93.49	2.00% <	2.00%>	BEGIN NORMAL CROWN - END SUPER		
			568 284.25			334 973.31											95+00.00	2.60% ->
			568 332.24			334 974.93											95+50.00	2.60%>
- 1			568 341.09	END OF SLAB		334 976.56											96+00.00	2.60%>
	44+00.00 33	34 156.14	568 379.34		82+00.00	334 978.19	571 732.66										96+50.00	2.60% ->
- 1			568 402.34	P.T. STATION		334 979.81											97+00.00	2.60%>
	44+42.22 33	34 172.38	568 418.30	END OF SLAB	83+00.00	334 981.44	571 832.61										97+50.00	2.60% ->
- 1			568 425.54			334 983.06											98+00.00	2.60%>
ı			568 471.61					P.C. STATION										
			568 517.67			334 985.32											98+50.00	2.60% ->
ı			568 563.74			334 989.09											99+00.00	2.60%>
			568 609.80			334 994.38											99+50.00	2.60%>
J			568 655.87			335 001.19											100+00.00	2.60% ->
- 1			568 701.93			335 009.51											100+50.00	2.60%>
J	48+00.00 33					335 019.33											101+00.00	2.60% ->
- 1	48+50.00 33	34 330.78	568 794.07	l	86+51.97	335 019.75	572 181.89	P.T. STATION									101+50.00	2.60%>
- 1																		
Į																	102+00.00	2.60% ->
1																	102+30.00	2.60%>
													1					

STATION	LEFT	RIGHT	COMMENT
51+18.96	2.00% <	2.00% ->	END NORMAL CROWN - BEGIN SUPER
51+50.00	0.28% <	2.00%>	
51+54.96	0.00% -	2.00% ->	
51+78.96	1.33%>	2.00%>	P.C. STATION
51+90.96	2.00% ->	2.00% ->	BEGIN FULL SUPER - RC
52+00.00	2.00%>	2.00%>	
52+50.00	2.00%>	2.00%>	
53+00.00	2.00% ->	2.00% ->	
53+50.00	2.00%>	2.00%>	
54+00.00	2.00% ->	2.00% ->	
54+50.00	2.00%>	2.00%>	
55+00.00	2.00% ->	2.00% ->	
55+03.19	2.00%>	2.00%>	END FULL SUPER - RC
55+15.19	1.33%>	2.00%>	P.T. STATION
55+39.19	0.00% -	2.00% ->	
55+50.00	0.60% <	2.00%>	
55+75.19	2.00% <	2.00% ->	BEGIN NORMAL CROWN - END SUPER

CURVE 3

CURVE 4

82+64.30	2.00% <	2.00%>	END NORMAL CROWN - BEGIN SUPER
83+00.00	2.00% <-	0.17% ->	
83+03.30	2.00% <	0.00%	
83+41.80	2.00% <	2.00% <	RC
83+50.00	2.43% <	2.43% <	
83+54.63	2.67% <	2.67% <	P.C. STATION
83+80.30	4.00% <	4.00% <	BEGIN FULL SUPER
84+00.00	4.00% <	4.00% <	
84+50.00	4.00% <	4.00% <	
85+00.00	4.00% <	4.00% <	
85+50.00	4.00% <	4.00% <	
86+00.00	4.00% <	4.00% <	
86+26.20	4.00% <	4.00% <	END FULL SUPER
86+50.00	2.76% <	2.76% <	
86+51.87	2.67% <	2.67% <	P.T. STATION
86+64.70	2.00% <-	2.00% <	RC
87+00.00	2.00% <	0.17% <	
87+03.20	2.00% <-	0.00%-	
87+42.20	2.00% <	2.00%>	BEGIN NORMAL CROWN - END SUPER

CURVE 5

89+49.56	2.00% <	2.00% ->	END NORMAL CROWN - BEGIN SUPER
89+50.00	1.98% <	2.00%>	
90+00.00	0.02% <-	2.00% ->	
90+00.56	0.00%	2.00%>	
90+44.56	1.73% ->	2.00% ->	P.C. STATION
90+50.00	1.95% ->	2.00% ->	
90+51.33	2.00%>	2.00%>	RC
90+66.56	2.60% ->	2.60% ->	BEGIN FULL SUPER
91+00.00	2.60%>	2.60%>	
91+50.00	2.60% ->	2.60% ->	
92+00.00	2.60%>	2.60%>	
92+50.00	2.60%>	2.60%>	
93+00.00	2.60% ->	2.60% ->	
93+50.00	2.60%>	2.60%>	
94+00.00	2.60% ->	2.60% ->	
94+50.00	2.60%>	2.60%>	
95+00.00	2.60% ->	2.60% ->	
95+50.00	2.60%>	2.60%>	
96+00.00	2.60%>	2.60%>	
96+50.00	2.60% ->	2.60% ->	
97+00.00	2.60%>	2.60%>	
97+50.00	2.60% ->	2.60% ->	
98+00.00	2.60%>	2.60%>	
98+50.00	2.60% ->	2.60% ->	
99+00.00	2.60%>	2.60%>	
99+50.00	2.60%>	2.60%>	
100+00.00	2.60% ->	2.60% ->	
100+50.00	2.60%>	2.60%>	
101+00.00	2.60% ->	2.60% ->	
101+50.00	2.60%>	2.60%>	
102+00.00	2.60% ->	2.60% ->	
102+30.00	2.60%>	2.60%>	END PROJECT - MATCH EXISTING

FILE NAME: R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\DETAILS\ALIGNMENT DETAILS.DWG

HWY: STH 72

COUNTY: PIERCE

ALIGNMENT DETAILS

CURVE 1

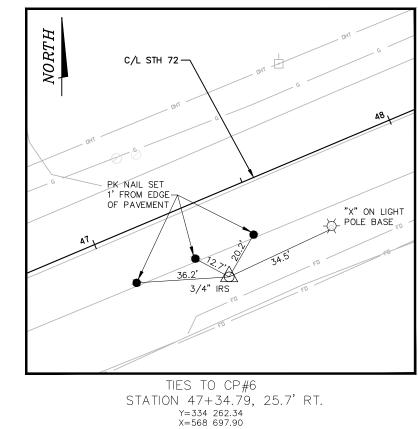
PLOT BY: ECKELBERG, PATRICK

SHEET

E

PLOT SCALE : 1" = 1'

PROJECT NO: 7105-03-72



PK NAIL SET 1' FROM EDGE-OF PAVEMENT

NO

CTH G

PROJECT NO: 7105-03-72

COUNTY: PIERCE

HWY: STH 72

CONTROL POINT TIES

SHEET

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DATE 16	JUN14	E S	TIMAT	E O F Q U A N	
LI NE NUMBER		ITEM DESCRIPTION	UNI T	TOTAL	7105-03-72 QUANTI TY
0010 0020	204. 0115 204. 0120	REMOVING ASPHALTIC SURFACE BUTT JOINTS REMOVING ASPHALTIC SURFACE MILLING	SY SY	5, 375. 000 31, 930. 000	5, 375. 000 31, 930. 000
0030	204.0150	REMOVING CURB & GUTTER	LF	140.000	140. 000
0040	204. 0220	REMOVING INLETS	EACH	2.000	2.000
0050	204. 0245	REMOVING STORM SEWER (SIZE) 01. 12-INCH	LF	22. 000	22. 000
0060	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1.000
0070	305. 0110	7105-03-72 BASE AGGREGATE DENSE 3/4-INCH	TON	780. 000	780. 000
0800	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	50.000	50.000
0090	305. 0500	SHAPING SHOULDERS DRILLED TIE BARS	STA	100.000	100.000
0100	416. 0610	DRILLED HE DARS	EACH	11. 000	11. 000
0110	416. 1010	CONCRETE SURFACE DRAINS	CY	2. 100	2. 100
0120 0130	440. 4410. S 455. 0605	S INCENTIVE IRI RIDE TACK COAT	DOL GAL	6, 670. 000 1, 930. 000	6, 670. 000 1, 930. 000
0140	465. 0105	ASPHALTIC SURFACE	TON	700.000	700. 000
0150	465. 0110	ASPHALTIC SURFACE PATCHING	TON	35. 000	35.000
0160	465. 0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD	TON	55. 000	55. 000
		ENTRANCES			
0170	465. 0310	ASPHALTIC CURB	LF SV	1, 160. 000	1, 160. 000
0180 0190	502. 3200 502. 3210. 9	PROTECTIVE SURFACE TREATMENT S PIGMENTED PROTECTIVE SURFACE TREATMENT	SY SY	917. 000 194. 000	917. 000 194. 000
0200	509. 0301	PREPARATION DECKS TYPE 1	SY	130. 000	130. 000
0210	509. 0302	PREPARATION DECKS TYPE 2	SY	50.000	50. 000
0220	509.0500	CLEANING DECKS	SY	917. 000	917. 000
0230	509. 1200	CURB REPAIR	LF	37. 000	37.000
0240 0250	509. 1500 509. 2500	CONCRETE SURFACE REPAIR CONCRETE MASONRY OVERLAY DECKS	SF CY	4. 000 68. 000	4. 000 68. 000
0260 0270		S CLEANING PARAPETS S REMOVING AND RESETTING TUBULAR RAILING	LF LS	518. 000 1. 000	518. 000 1. 000
0270	J 13. 9000. 3	(STRUCTURE) 02. B-47-077	LJ	1.000	1.000
0280	520. 0124	CULVERT PIPE CLASS III 24-INCH	LF	26. 000	26. 000
0290 0300	520. 1024 520. 7000	APRON ENDWALLS FOR CULVERT PIPE 24-INCH CLEANING CULVERT PIPES	EACH EACH	2. 000 6. 000	2. 000 6. 000
				U. 000	<u> </u>
0310	521. 1012	APRON ENDWALLS FOR CULVERT PIPE STEEL	EACH	1. 000	1. 000
0320	601. 0411	12-INCH CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	138. 000	138. 000
0330	602.0405	CONCRETE SIDEWALK 4-INCH	SF	900.000	900.000
0340	602. 0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	48. 000	48. 000
0350	603. 8000	CONCRETE BARRIER TEMPORARY PRECAST	LF	800.000	800.000
		DELI VERED			
0360	603. 8125	CONCRETE BARRIER TEMPORARY PRECAST	LF	1, 550. 000	1, 550. 000
		INSTALLED		·	,
0370	608. 0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	4. 000	4. 000
0380	611. 0654	INLET COVERS TYPE V	EACH	1. 000	1. 000
0390	611. 3220	INLETS 2X2-FT	EACH	1. 000	1.000
0400	611. 3230	INLETS 2X3-FT	EACH	1. 000	1. 000
0410	611. 8110	ADJUSTING MANHOLE COVERS	EACH	17. 000	17. 000
0420	611. 8115	ADJUSTING INLET COVERS	EACH	2.000	2.000
0430 0440	611. 9710 612. 0212	SALVAGED INLET COVERS PIPE UNDERDRAIN UNPERFORATED 12-INCH	EACH LF	1. 000 23. 000	1. 000 23. 000
0440	614. 0010	BARRIER SYSTEM GRADING SHAPING FINISHING		5. 000	5. 000
0460	414 0150	ANCHOD ASSEMBLIES FOR STEEL DLATE DEAT	EACH	4 000	4 000
0460	614. 0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4. 000	4. 000

DATE 16	JUN14	E S T	IMATE	OF QUAN	T I T I E S 7105-03-72	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0470	614. 0200	STEEL THRIE BEAM STRUCTURE APPROACH	LF	84.000	84.000	
0480	614. 0305	STEEL PLATE BEAM GUARD CLASS A	LF	850. 000	850. 000	
0490	614. 0345	STEEL PLATE BEAM GUARD SHORT RADIUS	LF	87. 500	87. 500	
0500	614. 0370	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	EACH	4. 000	4. 000	
0510	614. 0920	SALVAGED RAIL	LF	1, 200. 000	1, 200. 000	
0520	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 7105-03-72	EACH	1. 000	1. 000	
0530	619. 1000	MOBILIZATION	EACH	1. 000	1. 000	
0540	628. 1504	SILT FENCE MAINTENANCE	LF LF	550.000	550.000	
0550	628. 1520	SILT FENCE MAINTENANCE		1, 100. 000 	1, 100. 000 	
0560	628. 2023	EROSION MAT CLASS II TYPE B	SY	5. 000	5. 000	
0570 0580	633. 5200 634. 0614	MARKERS CULVERT END POSTS WOOD 4X6-INCH X 14-FT	EACH EACH	5. 000 31. 000	5. 000 31. 000	
0590	634. 0616	POSTS WOOD 4X6-INCH X 14-IT	EACH	68. 000	68. 000	
0600	634. 0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	7. 000	7. 000	
0610	637. 2210	SIGNS TYPE II REFLECTIVE H	SF	666. 660	666. 660	
0620	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	127. 500	127. 500	
0630	638. 2102	MOVING SIGNS TYPE II	EACH	2.000	2.000	
0640 0650	638. 2602 638. 3000	REMOVING SIGNS TYPE II REMOVING SMALL SIGN SUPPORTS	EACH EACH	119. 000 100. 000	119. 000 100. 000	
0660 0670	638. 4000 641. 8100	MOVING SMALL SIGN SUPPORTS OVERHEAD SIGN SUPPORT (STRUCTURE) 01.	EACH LS	2. 000 1. 000	2. 000 1. 000	
0070	041.0100	S-47-0014	L3	1.000	1.000	
0680	641. 8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 02. S-47-0015	LS	1. 000	1. 000	
0690	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1.000	
0700	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 7105-03-72	EACH	1. 000	1. 000	
0710	643. 0300	TRAFFIC CONTROL DRUMS	DAY	1, 680. 000	1, 680. 000	
0720	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	244. 000	244. 000	
0730 0740	643. 0705 643. 0715	TRAFFIC CONTROL WARNING LIGHTS TYPE A TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY DAY	408. 000 840. 000	408. 000 840. 000	
0740	643. 0900	TRAFFIC CONTROL WARNING LIGHTS TIPE C	DAY	3, 858. 000	3, 858. 000	
0760 0770	646. 0106 646. 0126	PAVEMENT MARKING EPOXY 4-INCH PAVEMENT MARKING EPOXY 8-INCH	LF LF	28, 770. 000 570. 000	28, 770. 000 570. 000	
0770	647. 0206	PAVEMENT MARKING EFOXT 8-INCTI PAVEMENT MARKING ARROWS BIKE LANE EPOXY	EACH	4. 000	4. 000	
0790	647. 0306	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY		4. 000	4. 000	
0800	647. 0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	77. 000	77. 000	
0810	647. 0656	PAVEMENT MARKING PARKING STALL EPOXY	LF	1, 345. 000	1, 345. 000	
0820	647. 0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	1, 390. 000	1, 390. 000	
0830 0840	647. 0786 648. 0100	PAVEMENT MARKING CROSSWALK EPOXY 18-INCH LOCATING NO-PASSING ZONES	LF MI	800. 000 1. 670	800. 000 1. 670	
0850	649. 0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	28, 595. 000	28, 595. 000	
0860	649. 0400	TEMPORARY PAVEMENT MARKING REMOVABLE	LF	1, 550. 000	1, 550. 000	
0870	649. 1000	TAPE 4-INCH TEMPORARY PAVEMENT MARKING STOP LINE	LF	124. 000	124. 000	
		REMOVABLE TAPE 12-INCH				
0880	650. 4000	CONSTRUCTION STAKING STORM SEWER	EACH	3.000	3.000	
0890	650. 5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	138. 000	138. 000	
0900	650. 8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	8, 805. 000	8, 805. 000	
0910	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 7105-03-72	LS	1.000	1. 000	
		CONTINUE (FROJECT) OT. /100-03-72				

DATE 16	JUN14	F S 1	IMAT	EOFQUAN	TITIES
LINE		2 0 .	/	2 3 . 2 0 // 11	7105-03-72
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0920	661. 0100	TEMPORARY TRAFFIC SIGNALS FOR BRIDGES	LS	1. 000	1.000
		(STRUCTURE) 01. B-47-044			
0930	661. 0100	TEMPORARY TRAFFIC SIGNALS FOR BRIDGES	LS	1. 000	1. 000
		(STRUCTURE) 02. B-47-077			
0940	690. 0150	SAWING ASPHALT	LF	1, 125. 000	1, 125. 000
0950	690. 0250	SAWI NG CONCRETE	LF	65. 000	65. 000
	100 1701	ON THE LOD TRAINING APPRENTICE AT AS		1 000 000	4 000 000
0960	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5.	HRS	1, 200. 000	1, 200. 000
0070	ACD 1TOC	OO/HR	LIDC	200,000	200 000
0970	ASP. 1TOG	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR		300.000	300.000
0980	SPV. 0060	SPECIAL O1. AJUSTING WATER VALVE BOXES	EACH	18. 000	18. 000
0990	SPV. 0090	SPECIAL O1. CLEANING DITCHES	LF	710. 000	710. 000
1000	SPV. 0090	SPECIAL 02. CONCRETE CURB & GUTTER CURE	LF	138. 000	138. 000
		AND SEAL TREATMENT			
1010	SPV. 0105	SPECIAL 01. PREPARATION OF FOUNDATION	LS	1. 000	1. 000
1010	31 1.0103	FOR ASPHALTIC PAVING SPECIAL	LJ	1.000	1.000
1020	SPV. 0165	SPECIAL 01. CONCRETE SIDEWALK CURE AND	SF	900, 000	900, 000
.020	0 0.00	SEAL TREATMENT	0.	7001000	, , , , , , , , , , , , , , , , , , , ,
1030	SPV. 0170	SPECIAL O1. REHEATING HMA PAVEMENT	STA	88. 000	88.000
		LONGITUDINAL JOINTS SPECIAL			
1040	SPV. 0195	SPECIAL 01. HMA PAVEMENT TYPE E-3	TON	8, 120. 000	8, 120. 000
		SPECIAL			

		JTT JOINTS	REMOVIN	IG STORM SEV	VER			1,012. 7,22	TENIS AINE	- IIV CATEGOR	- 0010 01	1101	ED OTHERWISE
STATION - STATION	LOCATION	204.0115 SY		204.0220	204.0245				ASPHALT	TITEMS			
14+25 - 15+00	\$TH 72	200		REMOVING	REMOVING STROM SEWER				AGFTIAL	TILMO			
58+63 - 58+81	\$TH 72	116		INLETS	12-INCH				455.0605	SPV.0195.01	465.0105	465.0110	465.0120
58+85 - 59+53	STH 72	442	STATION LOCATIO		(LF)				433.0003	HMA PAVEMENT	400.0100	ASPHALTIC	ASPHALTIC SURFA
62+09 - 63+29	STH 72	414	22+22 STH 72,1		22				TACK	TYPE E-3	ASPHALTIC	SURFACE	DRIVEWAYS AND
101+55 - 102+30	STH 72	250	62+47 \$TH 72,1	RT 1	_				COAT	SPECIAL	SURFACE	PATCHING	FIELD ENTRANCE
15+78 - 16+99	CTH G	360				CATEGORY	STATION - STATION	LOCATION	(GAL)	(TON)	(TON)	(TON)	(TON)
31+26 - 32+52	STH 128	383	TOTAL	LS = 2	22	0010	14+25 - 20+66	STH 72	144	624	_	_	_
32+93 - 33+53	S MARTIN ST	103				0010	21+98 - 35+78	STH 72	284	1226	-	-	-
39+78 - 40+52	PROJECT DR	128	BASE ACCRE	GATE DENSE	R/A.INCH	0010	35+78 - 43+60	STH 72	140	607	-	-	-
51+39 - 52+59	WOODMAN ST	143	BAGE AGGNE	OATE DENOE	J. -11 (O 11	0010 0010	44+42 - 55+05 55+05 - 58+81	\$TH 72 \$TH 72	204 74	879 297	_	_	-
55+04 - 55+70	SCOTT ST (NORTH)	173			305.0110	00.0	00.00-00.01	011112		23.			
55+08 - 55+53	SCOTT ST (NORTH)	109	STATION - STATION	LOCATION	TON	0010	58+85 - 82+90	STH 72	422	1715		-	-
64+06 - 64+62	OMAHA AVE	127	14+25 - 15+78	STH 72, LT	12	0010	82+90 - 102+30	STH 72	364	1570	_	-	_
66+24 - 67+43	WOODWORTH ST (NORTH)	186	14+25 - 19+18	STH 72, RT	39	0010	15+78 - 16+99	CTH G	18	74	_	_	-
66+27 - 66+97	WOODWORTH ST (SOUTH)	180	16+60 - 20+45	STH 72, LT	138	0010	31+26 - 32+52	STH 128	16	67		-	-
			19+18 - 20+59	STH 72, RT	34	0010	32+93 - 33+53	S MARTIN ST	6	22		-	
69+41 - 70+55	CLARK ST (NORTH)	155	22+05 - 25+84	\$TH 72, LT	92	0040	20.70 40.50	BBQ :507 BB		00			
69+81 - 70+48	CLARK ST (SOUTH)	157	80.00 50.57	OT11-70 GT	2.4	0010 0010	39+78 - 40+52 51+39 - 52+59	PROJECT DR WOODMAN ST	ь 0	26 2 9		-	
72+71 - 73+04	RACE DR	31	22+20 - 23+61 23+61 - 33+22	\$TH 72, RT \$TH 72, RT	34 75	0010	51+39 - 52+59 55+04 - 55+70	SCOTT ST (NORTH)	o g	29 35		<u>-</u>	
74+65 - 76+52	CTH P (NORTH)	257	23+61 - 33+22 25+84 - 30+26	STH 72, KT STH 72, LT	75 34	0010	55+08 - 55+53	SCOTT ST (NORTH)	6	22	_	_	
75+02 - 76+16	CTH P (SOUTH)	282	30+26 - 3 6+ 41	STH 72, LT STH 72, LT	38	0010	64+06 - 64+62	OMAHA AVE	6	26			- -
78+50 - 80+31	BIRCH ST (NORTH)	182	33+22 - 35+78	STH 72, RT	10				_				
78+86 - 79+68	BIRCH ST (SOUTH)	197	1	- · · · · - , · · ·		0010	66+24 - 67+43	WOODWORTH ST (NORTH)	10	37	-	-	-
82+52 - 83+36	SPRUCE ST (NORTH)	103	45+35 - 55+04	STH 72, LT	38	0010	66+27 - 66+97	WOODWORTH ST (SOUTH)	10	36			
82+60 - 83+25	SPRUCE ST (SOUTH)	122	45+35 - 51+39	STH 72, RT	23	0010	69+41 - 70+55	CLARK ST (NORTH)	8	31	-	-	-
86+22 - 87+07	PINE ST	153	83+25 - 102+30	STH 72, RT	74	0010	69+81 - 70+48	CLARK ST (SOUTH)	8	32	_	_	_
			83+26 - 102+30	STH 72, LT	71	0010	72+71 - 73+04	RACE DR	2	6	-	-	-
27+20	STH 72, RT (C.E.)	63	26+11	STH 72, LT (P.E.)	1	0040	74+65 - 76+52	OTH B (MORTH)	40	52			
28+17	STH 72, RT (P.E.)	37	20.64	STU 70 DT/D E 1	0	0010 0010	75+02 - 76+16	CTH P (NORTH) CTH P (SOUTH)	12 14	52 57	-	-	-
29+53	STH 72, LT (P.E.)	59	32+64 33+80	STH 72, RT (P.E.) STH 72, RT (P.E.)	2 2	0010	78+50 - 80+31	BIRCH ST (NORTH)	10	37	_	_	_
30+27	\$TH 72, RT (C.E.)	104	46+84	STH 72, LT (C.E.)	3	0010	78+86 - 79+68	BIRCH ST (SOUTH)	10	40	-	-	-
31+05	STH 72, LT (P.E.)	13	48+42	STH 72, LT (C.E.)	3	0010	82+52 - 83+36	SPRUCE ST (NORTH)	6	22	_	_	_
34+25	STH 72, LT (P.E.)	25	48+43	STH 72, RT (C.E.)	4			,	_				
34+86	STH 72, RT (P.E.)	40		, , , ,		0010	82+60 - 83+25	SPRUCE ST (SOUTH)	6	26		-	
36+08	STH 72, LT (P.E.)	26	52+15	STH 72, LT (P.E.)	4	0010	86+22 - 87+07	PINE ST	6	27			-
68+41	STH 72, LT (ALLEY)	21	70+87	STH 72, LT (P.E.)	3	0010	18+25 - 20+70	STH 72, RT	_	_	24	_	_
68+73	STH 72, LT (C.E.)	34	71+22	STH 72, LT (P.E.)	3	0010	21+95 - 24+40	STH 72, LT	-	-	29	-	-
			84+40	STH 72, LT (P.E.)	6	0010	22+28 - 24+40	STH 72, RT		-	21	-	-
	TOTAL =	5375	84+46	STH 72, RT (P.E.)	2	2040	44.53 40.05	67H 20 DT			-		
			86+29	\$TH 72, RT (P.E.)	6	0010 0010	44+53 - 46+85 44+75 - 46+85	\$TH 72, RT STH 72, LT	-	- -	5 9	<u>-</u>	- -
REMOVING ASI	PHALTIC SURFACE	MILLING	87+96	\$TH 72, RT (P.E.)	3	0010	27+20	STH 72, RT (C.E.)		-			12
			102+08	\$TH 72, LT (C.E.)	3	0010	28+17	STH 72, RT (P.E.)	_	_	_	_	2
		204.0120		UNDISTRIBUTED	23	0010	29+53	STH 72, LT (P.E.)	_	_	_	_	5
TEGORY STATION	I-STATION LOCATION	SY						• • •					
0010 14+25	5 - 20+66 STH 72	2312		TOTAL =	780	0010	30+27	STH 72, RT (C.E.)	-	-		-	15
	3 - 35+80 STH 72	4333	<u> </u>			0010	31+05	\$TH 72, LT (P.E.)	-	-	-	-	1
	- 43+60 STH 72	2773	BASE AGGREG	ATE DENGE 1	4/AJNOH	0010	34+25	STH 72, LT (P.E.)				-	3
	7 - 55 + 40 STH 72	3660	DAGE AGGINEG	ALL DENSE	1/4-111011	0010	34+86	STH 72, RT (P.E.)	-	-		-	3
0010 55+40) - 66+60 STH 72	3937			205 0440	0010	36+08	STH 72, LT (P.E.)	_	_	_	_	3
0010 66+60) - 82+90 STH 72	5613	STATION - STATION	LOCATION	305.0110 TON	0010	68+41	STH 72, LT (ALLEY)	_	-	_	_	A
	- 102+30 STH 72	6467	22+06 - 22+34	STH 72, RT	5	0010	68+73	STH 72, LT (C.E.)					6
02.00	- 102.00		43+25 - 43+59	\$TH 72, LT	9	0010	-	UNDISTRIBUTED	47	143	612	35	1
	CATEGORY TOTAL	= 29095	44+42 - 44+75	\$TH 72, LT	9								
			55+18 - 55+25	STH 72, RT	2			CATEGORY TOTALS =	1855	7765	700	35	55
			55+54 - 55+ 6 2	STH 72, RT	2								
	0 - 66+60 STH 72	1965											
0060 66+60)-82+90 STH 72	870	58+72 - 59+65	\$TH 72, LT	10	0060	55+05 - 58+81	STH 72	27	126	-	-	-
	0475000470741		62+41 - 63+27	\$TH 72, RT	10	0060 0060	58+85 - 82+90	STH 72 UNDISTRIBUTED	43	200 9		-	-
	CATEGORY TOTAL	= 2835	-	UNDISTRIBUTED	3	0000	-	GNDISTRIBUTED					
	PROJECT TOTAL	= 31930		TOTAL =	50			CATEGORY TOTALS =	75	335	0	0	0
REMOVI	ING CURB & GUTTE	R	OLIABII.	10 0110111 055	····	1		PROJECT TOTALS =	1930	8100	700	35	55
		4.0120	SHAPIN	NG SHOULDER			THE IMPROPERTY.			50 500 W00IA I ANS	0.00 GUU L BESTUL	000410 4410	
STATION - STATIC		LF		1.00471011	305.0500	NOTES:		AMOUNT OF ASPHALTIC SURFA EVELING TO ACHIEVE PROPER		ED FOR MISCIALLANE	OOS FULL BEPTH	REPAIR AND	
22+06.30 - 22+26.		20	STATION - STATION		STA	1	. ON HEDGING AND LE	TELITO TO ROTHLY L PROPER	J. GOOD BLOFE.				
		34	14+25 - 20+66	STH 72, LT & RT	13		THE UNDISTRIBUTED	AMOUNT OF ASPHALTIC SURFA	CE PATCHING I	S TO BE USED TO MAK	E MINOR REPAIRS	S (FILLING POT H	OLES
43+25.00 - 43+59.					212						C ministry of the contra		
43+25.00 - 43+59. 44+42.33 - 44+63. 58+72.13 - 59+65.	.72 STH 72, LT	21 30	21+98 - 35+80 44+42 - 54+40	STH 72, LT & RT STH 72, LT & RT	28 20			TS) AND TO CONSTRUCT TEMP				· (cc	

HWY: STH 72

TOTAL =

PROJECT NO: 7105-03-72

TOTAL =

COUNTY: PIERCE

100

MISCELLANEOUS QUANTITIES

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CONCRETE SURFACE DRAINS NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE. 416.1010 **CONCRETE CURB & GUTTER** STATION - STATION LOCATION CY 22+07.65 - 20+30.88 STH 72, RT 2.1 30-INCH TYPE D ADJUSTING STRUCTURE COVERS TOTAL = 2.1 601.0411 SPV.0060.01 611.8110 611.8115 STATION - STATION LOCATION l F ADJUSTING ADJUSTING ADJUSTING. 43+25.00 - 43+59.01 STH 72, LT 33 MANHOLE INLET WATER VALVE **DRILLED TIE BARS** 44+42.33 - 44+75.00 STH 72, LT 33 COVERS COVERS BOXE\$ 58+72.13 - 59+65.37 35 STH 72, LT CATEGORY STATION LOCATION (EACH) (EACH) (EACH) 62+41.24 - 63+26.80 STH 72, RT 37 416.0610 STH 72, 21.5' RT 0010 52+28 STATION - STATION LOCATION __EACH 0010 63+07 STH 72, 28.2" LT TOTAL = 138 22+08 - 22+20 STH 72, RT 0010 43+41 STH 72, 19.0° LT 0010 44+61 STH 72, 17.7' LT TOTAL = 11 CATEGORY TOTALS = 2 2 0 **CONCRETE SIDEWALK 4-INCH** ASPHALTIC CURB 0060 STH 72. 14.4" LT 31+56 STH 72, 14.3' LT 0060 33+16 602.0405 465.0310 35+59 STH 72, 14.0' LT 0060 STATION - STATION LOCATION \$F STATION - STATION LOCATION CATEGORY LF STH 72, 15.8' LT 0060 39+63 STH 72, LT 43+25.00 - 43+59.01 149 0060 66+97 - 68+26 \$TH 72, RT 129 0060 42+09 STH 72, 12.9' LT 0060 68+57 - 69+81 STH 72, RT 44+42.33 - 44+75.00 STH 72, LT 149 124 71+56 - 75+02 STH 72, RT 55+17.50 - 55+25.30 STH 72, RT 39 0060 347 0060 51+89 STH 72, 12.5' RT 0060 76+16 - 78+84 STH 72, RT 268 0060 52+12 STH 72, 15.4° RT 55+54.30 - 55+62.10 STH 72, RT 39 0060 79+68 - 82+60 STH 72, RT 292 0060 52+25 STH 72, 2.1' RT 59+40.30 - 59+65.37 \$TH 72, LT 258 0060 55+39 STH 72, 12.0° RT 62+41.24 - 62+66.87 \$TH 72, RT 266 TOTAL = 1160 0060 55+42 STH 72, 20.2" LT TOTAL = 900 0060 55+45 STH 72, 18,2" LT **CULVERT PIPE CLASS III &** 0060 56+28 STH 72, 28.0" LT 0060 56+99 STH 72, 25.1 LT APROND ENDWALLS FOR CULVERT PIPE 0060 57+22 STH 72, 12.6' RT 0060 57+33 STH 72, 24.0° LT 520.0124 520.1024 **CURB RAMP DETECTABLE** C.P. A.E.W. 0060 62+48 STH 72, 21.4' LT 24-INCH 24-INCH WARNING FIELD YELLOW 0060 62+74 STH 72, 2.6' LT STATION LOCATION EACH 64+73 STH 72, 12,2' RT 0060 STH 72, RT (P.E.) 34+85 26 602.0505 \$TH 72, 9.2" LT 66+53 0060 STATION LOCATION 0060 66+68 STH 72, 12.2' RT TOTALS = 26 2 55+25.30 STH 72, RT 0060 68+32 STH 72, 12.0' RT 55+54.30 STH 72, RT STEEL THICKNESS = 0.064 INCHES 0060 69+92 STH 72, 11.4' LT 58+78.03 STH 72, LT ALUMINUM THICKNESS = 0.075 INCHES 0060 70+11 STH 72, 9.0' LT 59+52.28 STH 72, LT 0060 70+22 STH 72, 11.6' RT \$TH 72, 11.7' RT 62+59.09 STH 72, RT 0060 72+86 63+18.86 STH 72, RT CLEANING CULVERT PIPES 0060 75+16 STH 72, 18,3° LT TOTAL = 48 0060 75+49 STH 72, 11.3' RT 520.7000 0060 75+57 STH 72, 14.7' LT STATION LOCATION EACH 0060 75+85 STH 72, 17.3' LT 30+24 STH 72, RT (P.E.) 0060 79+19 STH 72, 16.5' LT 31+05 STH 72, LT (P.E.) 32+64 STH 72, RT (P.E.) 0060 79+38 \$TH 72, 15.0" LT **EROSION MAT CLASS II TYPE B** 86+26 STH 72, 13.1' LT 0060 33+22 MARTIN ST 86+64 0060 STH 72, 45,8° LT 33+54 STH 72 628.2023 STH 72, RT (P.E.) 33+80 CATEGORY TOTALS = 15 18 STATION LOCATION (SY) 22+31 STH 72, RT TOTAL = 6 PROJECT TOTALS = 17 2 18 UNDISTRIBUTED TOTAL = STORM SEWER *612.0212* 608.0312 521.1012 611.0654 611.3220 611.3230 611,9710 STORM SEWER PIPE APRON ENDWALLS MARKERS CULVERT END PIPE REINFORCED INLET SALVAGED UNDERDRAIN FOR CHI VERT PIPE INLETS INLETS STRUCTURE CONCRETE COVERS INLET UNPERFORATED STEEL GRATE T.O.S. 633 5200 CLASS III 12-INCH TYPE V 2X2-FT 2X3-FT COVERS 12-INCH 12-INCH **ELEVATION** ELEVATION DEPTH STATION STATION OFFSET LOCATION (EACH) (EACH) (EACH) (EACH) (LF) (EACH) (FT) (FT) (FT) LOCATION EACH 22+30.60 19.0' RT 23 858.26 857.34 2.00 22+30 STH 72, RT STH 72 62+46.44 26.7' RT 31+58 STH 72, LT (STH 128) STH 72 848.92 847.97 1.50 32+18 STH 72, LT (STH 128) TOTALS = 23 STH 72, LT & RT TOTAL = * TWO (2) 22.5° ELBOWS REQUIRED, INCIDENTAL TO BID ITEM "PIPE UNDERDRAIN UNPERFORATED 12-INCH". Ε PROJECT NO: 7105-03-72 HWY: STH 72 COUNTY: PIERCE MISCELLANEOUS QUANTITIES SHEET

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PERMANENT SIGNING

			9/91	SIGN SIZE		637.2210 SIGNS TYPE II REFLECTIVE	REFLECTIVE	634.0614 POSTS WOOD	634.0616 POSTS WOOD	634.0618 POSTS WOOD	
SIGN NUMBER	STATION	LOCATION	SIGN CODE	WXH (IN)	SIGN MESSAGE	H (SF)	F (\$F)	4X6-INCH X 14-FT (EACH)	4X6-INCH X 16-FT (EACH)	4X6-INCH X 18-FT (EACH)	COMMENT
1	15+75	STH 72, LT	R5-1		DO NOT ENTER	(317)		(EACH)	(EACH)	(EXCII)	COMMICIAL
2	15+75	STH 72, LT	R5-1	30 X 30	DO NOT ENTER	6.25	 	_	1	_	
3	15+75	STH 72, LT	R1-1	-	STOP	-		-		-	
4	15+75	STH 72, LT	R1-1	30 X 30	STOP	5.18			1		
5	16+10	STH 72, RT	M1-5A, M6-1	-	COUNTY G, 4	-	_	_		_	
		- · · · · -, · · · ·			,						
6	16+10	STH 72, RT	J13-1	24 X 45	COUNTY G, ∢	7.50	_	_	1	_	
7	16+24	CTH G, ISLAND	R1-1		STOP				-		
8	16+24	CTH G, ISLAND	R1-1	30 X 30	STOP	5.18		1	-	-	
9	17+25	STH 72, LT	M1-5A, M6-1		COUNTY G, →		••	-	-		
10	17+25	\$TH 72, LT	J13- 1	24 X 45	COUNTY G,	7.50		-	1	-	
11	17+66	\$TH 72, RT	12-3		ELMWOOD POPULATION 817			-	-	-	
12	17+66	STH 72, RT	12-3	60 X 24	ELMWOOD POPULATION 817	10.00		1	1	-	
13	19+52 19+52	STH 72, RT	R2-5A, W13-1 W3-5		REDUCE SPEED AHEAD, 35 MPH	-	0.00	-	1	-	
14 15	20+39	STH 72, RT STH 72, RT	W5-52R	36 X 36	SPEED LIMIT 35 AHEAD BRIDGE HASH MARKS		9.00	-	1	-	
15	20739	31H 72, KI	VV3-52R	_	BRIDGE HASR WARRS	_	_	_	_	_	
16	20+39	STH 72, RT	W5-52R	12 X 36	BRIDGE HASH MARKS	_	3.00	1	_	_	
17	20+39	STH 72, RT	13-1	-	EAU GALLE RIVER	-		-	-	-	
18	20+39	STH 72, RT	13-1	84 X 15	EAU GALLE RIVER	8.75		1	1	-	
19	20+61	STH 72, LT	W5-52L		BRIDGE HASH MARKS			-	-	-	
20	20+61	STH 72, LT	W5-52L	12 X 36	BRIDGE HASH MARKS		3.00	1	-	-	
21	22+02	STH 72, RT	W5-52R	40 24 00	BRIDGE HASH MARKS	-		-	-	-	
22	22+02	STH 72, RT	W5-52R	12 X 36	BRIDGE HASH MARKS	-	3.00	1	-	-	
23 24	22+24 22+24	STH 72, LT STH 72, LT	W5-52L W5-52L	12 X 36	BRIDGE HASH MARKS BRIDGE HASH MARKS	-	3.00	1	-		
24 25	22+24	STH 72, LT	13-1	12 / 30	EAU GALLE RIVER	_	3.00	<u>'</u>	_	_	
2.0	22,24	511772, 21	13-1	_	EAD GALLE RIVER	_	_	_	_	_	
26	22+24	STH 72, LT	13-1	84 X 15	EAU GALLE RIVER	8.75		1	1	-	
27	22+50	STH 72, RT	M2-1, M1-6		JCT, 128	-			-		
28	22+50	STH 72, RT	J1-1	24 X 39	JCT, 128	6.50		-	1		
29	24+24	STH 72, RT	D1-2	_	† DOWNSVILLE, < SPRING VALLEY	_	_	_	_	_	
30	24+24	STH 72, RT	D1-2	90 X 30	↑ DOWNSVILLE, < SPRING VALLEY	18.75	_	1	1	-	
31	25+08	STH 72, LT	M2-1, M1-5A		JCT, COUNTY G						
32	25+08	STH 72, LT	J1-1	24 X 39	JCT, COUNTY G	6.50		_	1		
33	25+25	STH 72, RT	——————————————————————————————————————	247.05	NO PARKING, NO HUNTING IN VILLAGE LIMITS			-	<u>.</u>	-	
34	25+96	STH 72, LT	155-56		ADOPT-A-HIGHWAY, ELMWOOD AREA FIRE DEPT			_	_	-	
35	25+96	STH 72, LT	155-56	30 X 36	ADOPT-A-HIGHWAY, ELMWOOD AREA FIRE DEPT	7.50		_	1	_	
		-, -			, ,						
36	26+54	STH 72, RT	R2-1		SPEED LIMIT 35				-		
37	26+54	STH 72, RT	R2-1	24 X 30	SPEED LIMIT 35	5.00		-	1		
38	26+90	STH 72, LT	R2-1		SPEED LIMIT 55						
39	26+90	STH 72, LT	R2-1	24 X 30	SPEED LIMIT 55	5.00	_	_	1	-	
40	28+13	STH 72, LT	W1-2L	_	ROAD CURVES LEFT	_	_	-	-	_	
41	28+13	STH 72, LT	W1-2L	30 X 30	ROAD CURVES LEFT	-	6.25		1	-	
42	29+04	STH 72, RT	R10-64, R10-64F		NO ENGINE BRAKING, WITHIN VILLAGE LIMITS		7.20		<u>.</u>		
43	29+04	\$TH 72, RT	R10-64	30 X 36	NO ENGINE BRAKING EXCEPT IN EMERGENCY	7.50		_	1	_	
43	29+04	\$TH 72, RT	R10-64F	30 X 18	WITHIN VILLAGE LIMITS	3.75		_	_	_	
44	29+23	STH 72, LT	J4-1, D2-1		WEST, 72; ELLSWORTH 18	-		-	-	-	
45	29+23	STH 72, LT	J4-1	24 X 36	WEST, 72	6.00			-		
45	29+23	STH 72, LT	D2-2	78 X 15	ELLSWORTH 18	8.13		-	1	1	
46 47	31+30	STH 72, LT STH 72, LT	R5-1 R5-1	- 30 X 30	DO NOT ENTER DO NOT ENTER	6.25	_	_ 1	_	_	
47 48	31+30 31+41	STH 128, LT	R5-1 R1-1	30 X 30	STOP	6.25	_	, _	_		
-10	VIT!	57.1. ILV, E7	** (=1	_	5.5.	_	_	_	_	_	
49	31+41	STH 128, LT	R1-1	36 X 36	STOP	7.46		-	1		
50	31+50	STH 72, RT	M3-1, M1-6, M6-1; M3-2, M1-6, M6-1		NORTH, 128, · ; EAST, 72, ↑						
51	31+50	\$TH 72, RT	J3-2	48 X 57	NORTH, 128, ←; EA\$T, 72, ↑	19.00		-	-	1	
52 53	31+73 31+71	\$TH 72, RT	- R1-1		W. WINTER AVE., STH 128 STOP	-		-	-	-	EXISTING SIGN TO REMAIN
33	9141.1	STH 128, ISLAND	r 1-1		310P						
					SUBTOTALS #1 =	166.45	27.25	10	18	2	

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

SIGN			SIGN	SIGN SIZE W X H		637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	634.0614 POSTS WOOD 4X6-INCH X 14-FT	634.0616 POSTS WOOD 4X6-INCH X 16-FT	634.0618 POSTS WOOD 4X6-INCH X 18-FT	
NUMBER	STATION	LOCATION	CODE	(IN)	SIGN MESSAGE	(SF)	(\$F)	(EACH)	(EACH)	(EACH)	COMMENT
54	31+71	STH 128, ISLAND	R1-1	36 X 36	STOP	7.46			1	_	
55	32+23	STH 128, RT	W1-3L, W13-1		ROAD CURVES AHEAD, 30 MPH			_	-	_	
56	32+23	STH 128, RT	W1-3L	36 X 36	ROAD CURVES AHEAD	-	9.00		-	1	
56	32+23	STH 128, RT	W13-1	24 X 24	30 MPH	-	4.00		-		
57	32+79	STH 72, LT	M3-4, M1-6, M6-1; M3-1, M1-6, M6-1	-	WEST, 72, ↑; NORTH, 128, →	_	_	_	_	_	
58	32+79	STH 72, LT	J3-2	48 X 57	WEST, 72, ↑; NORTH, 128,	19.00	_	_	_	1	
59	32+79	STH 72, RT	M3-2, M1-6	70701	EAST, 72					, 	
60	32+79	STH 72, RT	J4-1	24 X 36	EAST, 72	6.00			-	1	
61	33+00	STH 72, RT	W14-1	-	DEAD END	-			-	-	
62	33+00	\$TH 72, RT	W14-1	30 X 30	DEAD END	6.25		-	1	-	
69	22.20	6TU 70 DT	D4.4		8700						
63	33+39	\$TH 72, RT	R1-1	 20 V 20	\$TOP	 40		1	-	-	
64 65	33+39 33+58	STH 72, RT	R1-1	30 X 30	STOP	5.18	 	1 	-	-	EXISTING SIGN TO REMAIN
66	35+35	STH 72, RT STH 72, LT	 R2-1		W. WINTER AVE., S. MARTIN ST. SPEED LIMIT 35			-	-	-	EXISTING SIGN TO REMAIN
67	35+35	STH 72, LT	R2-1	24 X 30	SPEED LIMIT 35	5.00		1	_	-	
37	30700	J11112, 21	174 1	247700	OF EED EMIT GO	0.00		,			
68	37+09	STH 72, LT	D1-2	_	† ELLSWORTH, SPRING VALLEY >	_	_	_	_	_	
69	37+09	STH 72, LT	D1-2	90 X 30	† ELLSWORTH, SPRING VALLEY	18.75			2		
70	36+89	STH 72, RT	R2-1	-	SPEED LIMIT 35	-			-	-	
71	36+89	STH 72, RT	R2-1	24 X 30	SPEED LIMIT 35	5.00			1	-	
72	39+00	STH 72, LT	M2-1, M1-6		JCT, 128			-	-	-	
73	39+00	STH 72, LT	J1-1	24 X 39	JCT, 128	a en			4		
74	40+42	PROJECT DR, RT	R1-1	24 A 39 	STOP	6.50		-		-	
75	40+42	PROJECT DR, RT	R1-1	30 X 30	STOP	5.18		-	1	-	
76	40+63	STH 72, RT	——————————————————————————————————————	-	W. WINTER AVE., PRO-JECT DR.	-	_	_	<u>'</u>	_	EXISTING SIGN TO REMAIN
77	41+11	STH 72, RT	S1-1, S16-9P	_	SCHOOL ZONE, AHEAD	_	_	_	_	_	EXISTING GIGHT TO REMAIN
		- · · · · - , · · ·			,						
78	41+11	STH 72, RT	\$1-1	36 X 36	SCHOOL ZONE	-	6.75	-	1	-	
78	41+11	STH 72, RT	S16-9P	30 X 18	AHEAD		3.75				
79	43+18	STH 72, LT	R2-1	-	SPEED LIMIT 35	-			-		
80	43+18	STH 72, LT	R2-1	24 X 30	SPEED LIMIT 35	5.00	_	-	1	-	
81	42+95	STH 72, RT	R2-1	-	SPEED LIMIT 25	_	_	-	_	-	
82	42+95	STH 72, RT	R2-1	24 X 30	SPEED LIMIT 25	5.00	**	-	1		
83	43+20	STH 72, RT	13-1	24700	EAU GALLE RIVER	J.00			<u>.</u>	_	
84	43+20	STH 72, RT	I3-1	84 X 15	EAU GALLE RIVER	8.75		2	-		
85	43+32	\$TH 72, LT	W5-52L		BRIDGE HASH MARKS			<u>-</u>	_	_	
86	43+32	STH 72, LT	W5-52L	12 X 36	BRIDGE HASH MARKS		3.00	1	-	-	
87	43+33	STH 72, RT	W5-52R		BRIDGE HASH MARKS	-		-	-		
88	43+33	STH 72, RT	W5-52R	12 X 36	BRIDGE HASH MARKS	-	3.00	1	-	-	
89	44+74	STH 72, LT	W5-52R	40400	BRIDGE HASH MARKS	-			-	-	
90 91	44+74 44+72	STH 72, LT	W5-52R W5-52L	12 X 36	BRIDGE HASH MARKS BRIDGE HASH MARKS	_	3.00 —	_	1	_	
91	44772	STH 72, RT	VV5-52C	_	BRIDGE HASH WARKS	_	_	_	_	_	
92	44+72	STH 72, RT	W5-52L	12 X 36	BRIDGE HASH MARKS	-	3.00		1	-	
93	44+94	STH 72, LT	13-1	-	EAU GALLE RIVER	-	**	-	-	-	
94	44+94	STH 72, LT	I3-1	84 X 15	EAU GALLE RIVER	8.75		1	1	_	
95	45+53	STH 72, RT	\$4-51		SCHOOL SPEED LIMIT 15			-	-	-	
96	45+53	\$TH 72, RT	\$4-51	24 X 48	SCHOOL SPEED LIMIT 15	8.00		-	1	-	
A.7	46.70	CTU TO LT	B0.4		OBEED LIMIT OF						
97 98	46+70	STH 72, LT	R2-1	24 X 30	SPEED LIMIT 25	5.00		-		-	
98 9 9	46+70 48+09	STH 72, LT STH 72, RT	R2-1 S1-1, S16-7L	24 X 30 -	SPEED LIMIT 25 SCHOOL ZONE. ✓	5.00		-	,		
100	48+09	STH 72, RT	S1-1, S10-7L S1-1	36 X 36	SCHOOL ZONE	_	6.75	_	1	_	
100	48+09	STH 72, RT	\$16-7L	30 X 18	/	_	3.75	_	-	_	
		-,		· -							
101	48+94	STH 72, LT	\$1-1, \$16-7L		SCHOOL ZONE,						
102	48+94	STH 72, LT	\$1-1	36 X 36	SCHOOL ZONE	-	6.75	-	1	-	
102	48+94	\$TH 72, LT	\$16-7L	30 X 18	***********		3.75	-	-	-	
103	49+80	\$TH 72, RT	R2-1		SPEED LIMIT 25	 - 00		_	-	-	
104	49+80	\$TH 72, RT	R2-1	24 X 30	SPEED LIMIT 25	5.00		1			
					SUBTOTALS #2 =	129.82	56.50	8	17	3	

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO: 7105-03-72 COUNTY: PIERCE Ε HWY: STH 72 MISCELLANEOUS QUANTITIES SHEET

PERMANENT SIGNING - CONTINUED

637.2210 637.2230

634.0616

634.0614

634.0618

Same							SIGNS TYPE II	SIGNS TYPE II	034.0014	634.0010	634.0016	
	SIGN			SIGN							POSTS WOOD 4X6-INCH X 18-FT	
SS-16		STATION	LOCATION			SIGN MESSAGE		(\$F)				COMMENT
180 20-31 MODERNAY, FILT 33-2-0 WARRESTON STORMAN STOR												
504 5117_LT					30 X 30		5.18		1	_	_	
19 64-96 STITZ, LT 54-51	107	52+56	STH 72, RT		-	W. WINTER AVE., S. WOODMAN ST.	-					EXISTING SIGN TO REMAIN
1-10	108	52+65	STH 72, LT	R2-1		SPEED LIMIT 25	-			-		
111 54-50 STT-2, LT 54-51 24.64 School, September 1, 11 54-50 Strong	109	52+65	STH 72, LT	R2-1	24 X 30	SPEED LIMIT 25	5.00	_	_	-	-	MOUNTED ON EXISTING POLE
112	110	53+59	STH 72, LT	S4-51	_	SCHOOL SPEED LIMIT 15	_	_	_	_	_	
181 56:43 STITZLIT 51-1 30:38 SCHOOL ZONE - 0.75 -	111	53+59	STH 72, LT	\$4-51	24 X 48	SCHOOL SPEED LIMIT 16	8.00			1		
151 5940 SOUTS, LT REAL	112	55+03	STH 72, LT	\$1-1, \$16-9P	-	SCHOOL ZONE, AHEAD			-	-		
Section	113	55+03	STH 72, LT	S1-1	36 X 36	SCHOOL ZONE		6.75		1		
1-15 25-49 SCOTTST_LIT	113	55+03	\$TH 72, LT	\$16-9P	30 X 18	AHEAD		3.75	-	-	-	
Second S	114	55+19	SCOTT ST, LT	R1-1		STOP			_	_	_	
116 55-66 SOUTIELRT FI-1	115	55+19		R1-1	30 X 30	STOP	5.18	**	1	-		
19					-		-		-			EXISTING SIGN TO REMAIN
The color of the			•								-	
170	118	55+56	SCOTT ST, RT	R1-2	30 X 30	STOP	5.18	_	_	1	_	
121 55-92 STH72_LT					_		-	_	_	-	_	EXISTING SIGN TO REMAIN
122 S5-78 STH72, RT									-	-	-	
124 S5-786 STH72, RT					24 X 24		4.00	**	1	-	-	MOUNT ON LIGHT POLE
144 5746										-	-	
126 5740	123	55+78	\$TH 72, RT	J2-1	24 X 57	EAST, 72, ™	9.50		_	-	1	
126 574-69 5111 24 24 35							-			-		EXISTING SIGN TO REMAIN
126 58-51 STH-72, LT				-					-			
190				J4-1	24 X 36		6.00			1	-	
129 58+53 STH 72, RT								_	_	_	_	EXISTING SIGN TO REMAIN
190 58-981 STH 72, RT M9-4, M1-6, M6-1 MEST, 72, MOUNT ON LIGHT POLE	128	58+53	S1H 72, KI	J3-1	_	EAS1, 72, 7	_	_	_	_	_	
131 58-961 STH72, RT					24 X 57		9.50			-	1	
132 59+13 STH 72, RT R1-1										-	-	
133 59+13 STH 72, RT R1-1 30 X 30 STOP 5.18 - 1											-	MOUNT ON LIGHT POLE
134 59+13 STH 72, RT								_ _		- -	- -	
135									·			
186 59+46 STH72, RT R1-1 30 x 30 STOP 5.18									-	-		EXISTING SIGN TO REMAIN
137 5948 S1H72, LT R1-1, R1-51 - STOP, RIGHT TURN NO STOP											-	
138 59+59 STH72, LT										_	_	
138A 594-59 STH 72, LT R1-1 38 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT 139 594-46 STH 72, RT W3-1 36 X 36 STOP AHEAD			•	•						-	_	MOUNT ON OVERHEAD SUPPORT POST
138A 594-59 STH 72, LT R1-1 38 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT 139 594-46 STH 72, RT W3-1 36 X 36 STOP AHEAD	138	50450	STH 72 LT	D1.51	90 ¥ 18	DIGHT TURNING STOR	2 75					MOUNT ON OVERHEAD SUBBORT BOST
139 59446 STH 72, RT W3-1 - STOP AHEAD										_		
140 59-46 STH 72, RT W3-1 38 X 36 STOP AHEAD - 9.00 MOUNT ON LIGHT POLE 141 60-04 STH 72, LT R2-1 - SPEED LIMIT 25										-	<u>-</u>	MICCITI ON CVERNIERE CONTORT
141 60+04 STH 72, LT R2-1 - SPEED LIMIT 25									_	_	_	MOUNT ON LIGHT POLE
143 59-75 STH-72, RT RESERVED PARKING							_		-	-	-	
143 59-75 STH-72, RT RESERVED PARKING	440	60404	CTLL 70 I T	D0.4	94 9 90	COCCO I MAIT OF	6.00					
144 60+92 STH 72, RT R2-1										-		EXISTING SIGN TO PEMAIN
145 60+92 STH 72, RT R2-1 24 X 30 SPEED LIMIT 25 5.00 MOUNT ON LIGHT POLE 146 61+88 STH 72, LT W3-1 - STOP AHEAD - 9.00 MOUNT ON LIGHT POLE 147 61+88 STH 72, LT R1-1 - STOP MOUNT ON LIGHT POLE 148 62+08 STH 72, LT R1-1 30 X 30 STOP MOUNT ON LIGHT POLE 149 62+08 STH 72, LT R1-1 30 X 30 STOP						•			- "	_	_	EXISTING SIGN TO REMAIN
146 61+88 STH 72, LT W3-1 - STOP AHEAD							5.00		_	_	_	MOUNT ON LIGHT POLE
148 62+08 STH 72, LT R1-1 30 X30 STOP 5.18									-	-	-	
148 62+08 STH 72, LT R1-1 30 X30 STOP 5.18	147	64199	STH 72 LT	W3.4	38 Y 36	STOP AHEAD		9.00				MOUNT ON LIGHT POLE
149 62+08 STH 72, LT R1-1 30 X 30 STOP 5.18 1 1 - 150 62+46 STH 72, RT J2-1, R1-51 - EAST, 72, \(\circ \) STOP, RIGHT TURN NO STOP MOUNT ON OVERHEAD SUPPORT POOR STOP MOUNT ON OVERHEAD SUPPORT POOR STOP STOP STOP STH 72, RT R1-1 36 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT POOR STOP STOP STOP STOP STOP STOP STOP STOP										-	-	MODINI ON EIGHT FOEE
150 62+46 STH 72, RT J2-1, R1-1, R1-51 — EAST, 72, ·; STOP; RIGHT TURN NO STOP — — — — — — — — — — — — MOUNT ON OVERHEAD SUPPORT PORT 151 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 — — — — — — MOUNT ON OVERHEAD SUPPORT PORT 151 62+55 STH 72, RT R1-51 30 X 18 RIGHT TURN NO STOP 3.75 — — — — MOUNT ON OVERHEAD SUPPORT PORT 151 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 — — — MOUNT ON OVERHEAD SUPPORT PORT 151 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 — — — — MOUNT ON OVERHEAD SUPPORT PORT 152 62+86 STH 72, LT J3-1, R1-1, R7-8A WEST, 72, ·; STOP; RESERVED PARKING — — — — — — MOUNT ON OVERHEAD SUPPORT 153 62+86 STH 72, LT J3-1 24 X 57 WEST, 72, ·; STOP; RESERVED PARKING — — — — — — MOUNT ON LIGHT POLE								_	_		_	
151 62+55 STH 72, RT J2-1 24 X 57 EAST, 72, · 9.50 MOUNT ON OVERHEAD SUPPORT POLE 151 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT POLE 151 62+55 STH 72, RT R1-51 30 X 18 RIGHT TURN NO STOP 3.75 MOUNT ON OVERHEAD SUPPORT POLE 151 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT POLE 152 62+86 STH 72, LT J3-1, R1-1, R7-8A - WEST, 72, \(\circ\); STOP; RESERVED PARKING MOUNT ON OVERHEAD SUPPORT 153 62+86 STH 72, LT J3-1 24 X 57 WEST, 72, \(\circ\); STOP; RESERVED PARKING MOUNT ON LIGHT POLE								_	_	_	_	
151 62+55 STH 72, RT R1-51 30 X 18 RIGHT TURN NO STOP 3.75 MOUNT ON OVERHEAD SUPPORT PORT 1514 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT PORT 152 62+86 STH 72, LT J3-1, R1-1, R7-8A WEST, 72, \(\circ\) STOP; RESERVED PARKING R7-8A TO REMAIN 153 62+86 STH 72, LT J3-1 24 X 57 WEST, 72, \(\circ\) WEST, 72, \(\circ\) WEST, 72, \(\circ\) 9.50 MOUNT ON LIGHT POLE					24 X 57	EAST, 72, →	9.50	_	-	_	-	MOUNT ON OVERHEAD SUPPORT POST
151 62+55 STH 72, RT R1-51 30 X 18 RIGHT TURN NO STOP 3.75 MOUNT ON OVERHEAD SUPPORT PORT 1514 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT PORT 152 62+86 STH 72, LT J3-1, R1-1, R7-8A WEST, 72, \(\circ\) STOP; RESERVED PARKING R7-8A TO REMAIN 153 62+86 STH 72, LT J3-1 24 X 57 WEST, 72, \(\circ\) WEST, 72, \(\circ\) WEST, 72, \(\circ\) 9.50 MOUNT ON LIGHT POLE	151	62+55	STH 72. RT	R1-1	36 X 36	STOP	7.46					MOUNT ON OVERHEAD SUPPORT POST
151A 62+55 STH 72, RT R1-1 36 X 36 STOP 7.46 MOUNT ON OVERHEAD SUPPORT 152 62+86 STH 72, LT J3-1, R1-1, R7-8A WEST, 72, <; STOP; RESERVED PARKING R7-8A TO REMAIN 153 62+86 STH 72, LT J3-1 24 X 57 WEST, 72, < 9.50 MOUNT ON LIGHT POLE										-		MOUNT ON OVERHEAD SUPPORT POST
152 62+86 STH 72, LT J3-1, R1-1, R7-8A WEST, 72, <; STOP; RESERVED PARKING R7-8A TO REMAIN 153 62+86 STH 72, LT J3-1 24 X 57 WEST, 72, < 9.50 MOUNT ON LIGHT POLE									_	_	_	
153 62+86 STH 72, LT J3-1 24 X 57 WEST, 72,									-	_	_	
SUBTOTALS #3 = 148.92 28.50 5 6 2					24 X 57		9.50	-				MOUNT ON LIGHT POLE
						SUBTOTALS #3 =	148.92	28.50	5	6	2	

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

PERMANENT SIGNING - CONTINUED

				SIGN SIZE		637.2210 SIGNS TYPE II REFLECTIVE	637.2230 SIGNS TYPE II REFLECTIVE	634.0614 POSTS WOOD	634.0616 POSTS WOOD	634.0618 POSTS WOOD	
SIGN			SIGN	WXH		н	F	4X6-INCH X 14-FT	4X6-INCH X 16-FT	4X6-INCH X 18-FT	
NUMBER	STATION	LOCATION	CODE	(IN)	SIGN MESSAGE	(\$F)	(\$F)	(EACH)	(EACH)	(EACH)	COMMENT
153	62+86	\$TH 72, LT	R1-1	30 X 30	\$TOP	5.18		-	-	-	MOUNT ON LIGHT POLE
154	63+17	\$TH 72, LT	R3-4		NO U-TURNS		-	-	-	-	
155	63+17	STH 72, LT	R3-4	24 X 24	NO U-TURNS	4.00	••	1	-	-	
156	64+15	OMAHA AVE, LT	R1-1		STOP			-			
157	64+15	OMAHA AVE, LT	R1-1	30 X 30	STOP	5.18	_	_	1	_	
158	64+90	STH 72, RT	R1-1	_	STOP	_	_	_	_	_	EXISTING SIGN TO REMAIN
160	66+37	STH 72, LT	R2-1		SPEED LIMIT 25				-		
161	66+37	STH 72, LT	R2-1	24 X 30	SPEED LIMIT 25	5.00			1		
162	66+44	WOODWORTH ST, LT	R1-1		STOP				-		
163	66+44	WOODWORTH ST, LT	R1-1	30 X 30	\$TOP	5.18		_	1	_	
164	66+74	WOODWORTH ST, RT	R1-1		\$TOP			-	-	-	
165	66+74	WOODWORTH ST, RT	R1-1	30 X 30	STOP	5.18		-	1	-	
1 6 6	66+95	WOODWORTH ST, RT	-	-	W. RACE AVE./N. WOODWORTH ST.	-		-	-	-	EXISTING SIGN TO REMAIN
167	66+90	STH 72, RT	R2-1		SPEED LIMIT 30			-	-	-	
168	66+90	STH 72, RT	R2-1	24 X 30	SPEED LIMIT 30	5.00	_	_	-	_	MOUNT ON LIGHT POLE
169	67+53	STH 72, LT	M3-4, M1-6, M5-1L	_	WEST, 72,◀	_					
170	67+53	STH 72, LT	из-4, мп-е, мв-тс J2-1	24 X 57	West, 72, ¶ West, 72, ¶	9.50	_	_	-	_	
170	68+29	STH 72, CT	M2-1, M1-5A		JCT COUNTY P			-	!	-	
172	68+29	STH 72, RT	J1-1	24 X 39	JCT COUNTY P	6.50	-	1	-	-	
173	69+33	STH 72, LT	W11-8		FIRE TRUCK CROSSING	0.00 		<u>.</u>	-	-	
	00.00	z, z.	77								
174	69+33	STH 72, LT	W11-8	30 X 30	FIRE TRUCK CROSSING	_	6.25	-	1		
175	69+75	STH 72, LT	_		W. RACE AVE. / N. CLARK ST.	-			-		EXISTING SIGN TO REMAIN
176	69+95	CLARK ST, LT	R1-1		STOP						
177	69+96	CLARK ST, LT	R1-1	30 X 30	STOP	5.18	_	-	1	-	
178	70+30	CLARK ST, RT	R1-1	-	STOP	_	_	-	_	-	
				****					_		
179	70+30	CLARK ST, RT	R1-1	30 X 30	STOP	5.18		-	1	-	
180	73+72	STH 72, LT		-	N. RACE, DR.			-	-	-	EXISTING SIGN TO REMAIN
181	74+92	STH 72, LT	R2-1		SPEED LIMIT 30			-	-	-	
182 183	74+92 74+84	STH 72, LT	R2-1 J13-1	24 X 30	SPEED LIMIT 30 COUNTY P	5.00	_	1	_	_	
103	14784	STH 72, RT	J13-1	-	COUNTYPA	_	_	-	_	-	
184	74+84	STH 72, RT	J13-1	24 X 45	COUNTY P ↔	7.50		-	1		
185	75+06	CTH P, LT	J13-2	-	72, ⇔; COUNTY P, ↑				-		
186	75+06	CTH P, LT	J13-2	48 X 45	72, ⇔; COUNTY P, ↑	15.00			1		
187	75+24	CTH P, LT	R1-1		STOP			_	_	_	
188	75+24	CTH P, LT	R1-1	30 X 30	STOP	5.18		_	1	_	
189	75+76	CTH P, RT	R1-1	-	STOP	-		-	-		
190	75+76	CTH P, RT	R1-1	30 X 30	STOP	5.18		1	-		
191	75+95	CTH P, RT	J13-2		72, ↔; COUNTY P, †		••			-	
192	75+95	CTHP, RT	J13-2	48 X 45	72, ↔; COUNTY P,↑	15.00	_	-	1	-	EVICTING CION TO DESCRIP
193	76+16	CTH P, RT	_	_	W. RACE AVE. / S. PUBLIC ST.	_	_	_	_	_	EXISTING SIGN TO REMAIN
194	76+03	STH 72, RT	R2-1	-	SPEED LIMIT 30			_	_		
195	76+03	STH 72, RT	R2-1	24 X 30	SPEED LIMIT 30	5.00	-	-	-	-	MOUNT ON LIGHT POLE
196	76+31	STH 72, LT	J13-1		COUNTY P . >	J.00		- -	_	_	
197	76+31	STH 72, LT	J13-1	24 X 45	COUNTY P	7.50		_	1	_	
198	78+70	STH 72, RT	J4-1	-	EAST, 72			_	<u>-</u>	_	
		•			•						
199	78+70	STH 72, RT	J4-1	24 X 36	EAST, 72	6.00			-		MOUNT ON LIGHT POLE
200	79+08	BIRCH ST, LT	R1-1		STOP				-		
201	79+08	BIRCH ST, LT	R1-1	30 X 30	STOP	5.18	-	-	1	-	
202	79+47	BIRCH ST, RT	R1-1	-	STOP	-	_	_	-	-	
203	7 9+ 47	BIRCH ST, RT	R1-1	30 X 30	STOP	5.18	-	_	1	-	
204	79+67	STH 72, RT	-	_	N. BIRCH ST. / E. RACE AVE.			_	_	_	EXISTING SIGN TO REMAIN
205	81+99	STH 72, KT	 J1-1		JCT, COUNTY P			-	-	-	EMOTING SIGN TO REMAIN
206	81+99	\$TH 72, LT	J1-1	24 X 39	JCT, COUNTY P	6.50		_	1	_	
207	82+78	SPRUCE ST, LT	R1-1		STOP			_	<u>:</u>	_	
208	82+78	SPRUCE ST, LT	R1-1	30 X 30	STOP	5.18		_	1	_	
		,									
					SUBTOTALS #4 =	= 154.48	6.25	4	17	0	

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

SHEET PROJECT NO: 7105-03-72 COUNTY: PIERCE MISCELLANEOUS QUANTITIES Ε HWY: STH 72

PERMANENT SIGNING - CONTINUED

sign	024		SIGN	SIGN SIZE WX H		REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE	634.0614 POSTS WOOD 4X6-INCH X 14-FT	634.0616 POSTS WOOD 4X6-INCH X 16-FT	634.0618 POSTS WOOD 4X6-INCH X 18-FT	
NUMBER	STATION	LOCATION	CODE	(IN)	SIGN MESSAGE	(SF)	(SF)	(EACH)	(EACH)	(EACH)	COMMENT
209	83+08	SPRUCE ST, RT	R1-1	_	STOP	-	_	_	_	_	
210	83+08	SPRUCE ST, RT	R1-1	30 X 30	STOP	5.18		-	1	-	5W67W16 616W76 65W1W
211	83+29	STH 72, RT	_ -	-	N. SPRUCE ST. / E. RACE AVE.	-		-	-	-	EXISTING SIGN TO REMAIN
212	86+50	PINE ST, LT	R1-1		\$TOP			-	-	-	
213	86+50	PINE ST, LT	R1-1	30 X 30	STOP	5.18	-	-	1	-	
214	86+74	STH 72, RT	_	_	N. PINE ST. / E. RACE AVE.	_	_	_	_	_	EXISTING SIGN TO REMAIN
215	87+54	STH 72, LT	R2-1	-	SPEED LIMIT 30	_	_	_	_	_	EXISTING YELLOW BEACON TO REMAIN
216	87+54	STH 72, LT	R2-1	24 X 30	SPEED LIMIT 30	5.00		-	-	-	MOUNT ON EXISTING POLE
217	88+11	STH 72, LT	-	-	PEDDLERS AND SOLICITORS ORDINANCE				-		EXISTING SIGN TO REMAIN
218	88+61	\$TH 72, RT	R2-1		SPEED LIMIT 55			-	-	-	
219	88+61	STH 72, RT	R2-1	24 X 30	SPEED LIMIT 55	5.00			1		
220	90+77	STH 72, RT	M3-2, M1-6, D2-1		EAST, 72; DOWNSVILLE 10	-	_	_	_	_	
221	90+77	STH 72, RT	D2-1	84 X 15	DOWNSVILLE 10	8.75		1	1		
222	92+47	STH 72, LT		- V	NO PARKING	-		-	, 	_	
223	93+94	STH 72, RT	 J4-1	24 X 36	EAST, 72	6.00		-	1		
					·						
224	94+14	STH 72, LT	W3-5	-	SPEED LIMIT 30 AHEAD	-			-	-	
225	94+14	STH 72, LT	W3-5	36 X 36	SPEED LIMIT 30 AHEAD	-	9.00	-	1		
226	97+52	\$TH 72, LT	12-3		ELMWOOD POPULATION 817			-	_	_	
227	97+52	\$TH 72, LT	12-3	60 X 24	ELMWOOD POPULATION 817	10.00		1	1	_	
228	99+73	STH 72, LT	R10-64, R10-64F	-	NO ENGINE BRAKING, WITHIN VILLAGE LIMITS			-	-	-	
229	99+73	STH 72, LT	R10-64	30 X 36	NO ENGINE BRAKING EXCEPT IN EMERGENCY	7.50	_	_	1	_	
229	99+73	STH 72, LT	R10-64F	30 X 18	WITHIN VILLAGE LIMITS	3.75			-	-	
230	101+75	STH 72, LT		-	NO HUNTING IN VILLAGE LIMITS	-			-	-	EXISTING SIGN TO REMAIN
231	102+11	\$TH 72, RT	12-2		DUNN CO			_	_	_	
232	102+11	\$TH 72, RT	12-2	48 X 15	DUNN CO	5.00		1	1	-	
233	102+49	STH 72, LT	12-2	_	PIERCE CO / THIS IS A DARE COUNTY	_			_		
234	102+49	STH 72, LT	12-2	54 X 15	PIERCE CO	5.63	_	1	1	_	
254	102+45	31H 72, L1	12-2	54 K 15	FIEROE GO						
					SUBTOTALS #5 =	66.99	9.00	4	10	0	
					SUBTOTALS #1 =	165.45	27.25	10	18	2	
					SUBTOTALS #2 =	129.82	56.50	8	17	3	
					SUBTOTALS #3 =	148.92	28.50	5	6	2	
					SUBTOTALS #4 =	154.48	6.25	4	17	0	
					TOTALS =	666.66	127.50	31	68	7	
						1	127100			•	
		BARRIER SYSTE	EM GRADING SHAPIN	NG FINISHIN	IG				G	UARDRAIL	
				FOR INFORMATI	ION ONLY				6-	14.0200 61	4.0305 614.0345 614.0370
			EVOLUATION		SEEDING					STEEL	STEEL PLATE STEEL PLATE

					FOR INFO	<u>RMATION ONLY</u>		
STATION - STATION	LOCATION	614.0010 (EACH)	EXCAVATION COMMON (CY)	FILL (CY)	TOPSOIL (SY)	MULCHING (SY)	FERTILIZER TYPE B (CWT)	SEEDING MIXTURE NO. 20 (LB)
16+96 - 17+41	STH 72, LT (710TH AVE)	1	6	50	150	230	0.1	7
18+05 - 19+79	\$TH 72, RT	1	27	215	460	580	0.4	20
22+00 - 22+35	\$TH 72, RT	1	0	75	150	200	0.1	6
23+00 - 24+71	STH 72, RT	1	16	25	85	210	0.1	6
25+38 - 27+05	STH 72, LT	1	0	150	295	470	0.3	13
	TOTALS =	5	49	515	1140	1690	1	52

SALVAGED RAIL

		614.0920
STATION - STATION	LOCATION	LF
16+60 - 20+49	STH 72, LT	550
19+36 - 20+64	STH 72, RT	125
22+05 - 25+93	STH 72, LT	400
22+16 - 23+46	STH 72, RT	125
	TOTAL =	1200

HWY: STH 72

		THRIE BEAM STRUCTURE APPROACH	STEEL PLATE BEAM GUARD CLASS A	BEAM GUARD SHORT RADIUS	BEAM GUARD ENERGY ABSORBING TERMINAL
STATION - STATION	LOCATION	(LF)	(LF)	(LF)	(EACH)
16+84.39 - 17+27.05	STH 72, LT (710TH AVE)		_	_	1
16+59.35 - 16+94.53	STH 72, LT (CTH G)		50	87.5	_
16+94.53 - 20+29.44	STH 72, LT		350	_	_
20+29.44 - 20+49.63	STH 72, LT	21	_	-	_
19+27.99 - 19+79.19	STH 72, RT		_	_	1
19+79.19 - 20+43.19	STH 72, RT		62.5		
20+43.19 - 22+64.34	STH 72, RT	21		-	
22+00.58 - 22+20.77	STH 72, LT	21			
22+20.77 - 25+38.53	STH 72, LT		325		
25+38.53 - 25+87.42	STH 72, LT			-	1
22+15.16 - 22+36.30	STH 72, RT	21			
22+36.30 - 23+00.27	STH 72, RT		62.5		
23+00.27 - 23+51.45	STH 72, RT				1
	TOTALS =	84	850	87.5	4

FILE NAME: R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\DETAILS\MISCELLANEOUS QUANTITIES.DWG LAYOUT: WODEL

PROJECT NO: 7105-03-72

COUNTY: PIERCE

PLOT BY : ECKELBERG, PATRICK

MISCELLANEOUS QUANTITIES

PLOT SCALE: 0.500000

WISDOT/CADDS SHEET 43

Ε

SHEET

			PERMANENT SIG	SNING - C	ONTINUE	ED				PERMANENT SIG	SNING - C	ONTINUE	ĒD				PERMANENT SI	GNING - (CONTINU	ED	
	SIGN	OTATION.	LOGATION	638.2102 MOVING SIGNS TYPE II	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	638.4000 MOVING SMALL SIGN SUPPORTS	SIGN	CTATION	LOCATION	638.2102 MOVING SIGNS TYPE II	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	638.4000 MOVING SMALL SIGN SUPPORTS	SIGN	STATION	LOCATION	638.2102 MOVING SIGNS TYPE II	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	SMALL SIG
	UMBER 1	<u>\$TATION</u> 15+75	STH 72, LT	(EACH)	(EACH) 1	(EACH) 1	(EACH)	NUMBER 54	31+71	STH 128, ISLAND	(EACH)	(EACH) 2	(EACH) 1	(EACH)	105	52+31 52+34	WOODMAN ST, RT	(EACH)	<u>(EACH)</u> 1	<u>(EACH)</u> 1	(EACH) -
	2 3	15+75 15+75	STH 72, LT STH 72, LT	-	1	1		55 56	32+23 32+23	STH 128, RT STH 128, RT	-		1 	-	106 107	52+31 52+56	WOODMAN ST, RT STH 72, RT	 	-	-	-
	4 5	15+75 16+10	STH 72, LT STH 72, RT		1	1		56 57	32+23 32+79	STH 128, RT STH 72, LT	-	1	1	- -	108 109	52+65 52+65	STH 72, LT STH 72, LT	 	1 -	_	_
	6	16+10	STH 72, RT	_	_	_	_	58	32+79	STH 72, LT	_	_	_	-	110	53+59	STH 72, LT		1	1	_
	7 8	16+24 16+24	CTH G, ISLAND CTH G, ISLAND	-	1	1	-	59 60	32+7 9 32+79	STH 72, RT STH 72, RT	_	1 -	1 -	_	111 112	53+59 55+03	STH 72, LT STH 72, LT	 	_ 2	_ 1	_
	9	17+25	STH 72, LT	-	1	1	-	61 62	33+00 33+00	STH 72, RT STH 72, RT	_	1	_	- -	113 113	55+03 55+03	STH 72, LT STH 72, LT		-	-	-
i	10	17+25	\$TH 72, LT	-	-	-	-			·	-						•	-	-	- -	_
	11 12	17+6 6 17+6 6	STH 72, RT STH 72, RT		1	2		63 64	33+39 33+39	STH 72, RT STH 72, RT	-	1	1	-	114 115	55+19 55+19	SCOTT ST, LT SCOTT ST, LT	 	1 -	1 -	_
	13	19+52	STH 72, RT	-	2	1	-	65 66	33+58 35+35	STH 72, RT STH 72, LT	-	 1		-	116 117	55+23	SCOTT ST, LT		_	-	-
	14 15	19+52 20+39	STH 72, RT STH 72, RT	_	1	_ 1	_	67	35+35	STH 72, LT	-		_	-	118	55+56 55+56	SCOTT ST, RT SCOTT ST, RT	-	-	-	_
	16	20+39	STH 72, RT	-		-		68	37+09	STH 72, LT		1	1	-	119	55+63	STH 72, RT		_	_	_
	17 18	20+39 20+39	STH 72, RT STH 72, RT	-	1	1	-	69 70	37+09 36+89	STH 72, LT STH 72, RT		 1	_ 1	-	120 121	55+82 55+82	STH 72, LT STH 72, LT	 	1 _	1_	_
	19	20+39	STH 72, KT STH 72, LT	_	1	1	_	71	36+89	STH 72, RT	-	<u>.</u>	<u>.</u>		122	55+78	STH 72, RT		1	1	_
	20	20+61	STH 72, LT	-	-	-	-	72	39+00	STH 72, LT	-	1	1	-	123	55+78	STH 72, RT		-	-	-
	21	22+02	STH 72, RT	-	1	1	-	73 74	39+00 40+42	STH 72, LT PROJECT DR, RT	-	 1	 1		124 125	57+05 57+69	STH 72, LT STH 72, LT		-	-	-
	22 23	22+02 22+24	STH 72, RT STH 72, LT	_	1	1	_	75	40+42	PROJECT DR, RT	-	<u>.</u>	-	-	126	57+69	STH 72, LT		<u>-</u>	-	_
	24 25	22+24 22+24	STH 72, LT STH 72, LT	_	- 1	- 1	_	76 77	40+63 41+11	STH 72, RT STH 72, RT	_	_ 2	_ 1	_	127 128	58+31 58+53	STH 72, LT STH 72, RT		_ 1	_ 1	-
			-		•			78	41+11	STH 72, RT	_	_	_	_	129	58+53	STH 72, RT	_	_	_	_
	26 27	22+24 22+50	STH 72, LT STH 72, RT	-	1	1	-	78	41+11	STH 72, RT	-		-	-	130	58+81	STH 72, RT	-	1	-	-
	28	22+50 24+24	STH 72, RT	-	_	_	-	79 80	43+18 43+18	\$TH 72, LT \$TH 72, LT	 	1	1	-	131 132	58+81 59+13	STH 72, RT STH 72, RT	-	 1	1	-
	29 30	24+24	STH 72, RT STH 72, RT	-	-	2 -	-	81	42+95	STH 72, RT	-	1	1		133	59+13	STH 72, RT	-	<u>.</u>	<u>-</u>	-
	31	25+08	STH 72, LT		1	1		82	42+95	\$TH 72, RT		-			134	59+13	STH 72, RT	-	-	-	
	32 33	25+08	\$TH 72, LT	-	-	-	-	83 84	43+20 43+20	STH 72, RT STH 72, RT		1 -	1 —	- -	135 136	59+46 59+46	STH 72, RT STH 72, RT	-	1	1	-
	34	25+25 25+96	STH 72, RT STH 72, LT	-	1	1	-	85 86	43+32	STH 72, LT	-	1	1	-	137	59+48	STH 72, LT		2	1	
	35	25+9 6	STH 72, LT			-	-		43+32	STH 72, LT	_	_	_	_	138	59+59	STH 72, LT	-	-	-	-
	36	26+54	STH 72, RT	-	1	1	-	87 88	43+33 43+33	STH 72, RT STH 72, RT	_	1 -	1 -	_	138 138A	59+59 59+59	STH 72, LT STH 72, LT	-		-	
	37 38	26+54 26+90	STH 72, RT STH 72, LT	_	_ 1	_ 1	_	89	44+74	STH 72, LT	-	1	1	-	139	59+46	STH 72, RT		1	-	-
	39 40	26+90 28+13	STH 72, LT STH 72, LT		1	 1		90 91	44+74 44+72	STH 72, LT STH 72, RT	-	1	1	-	140 141	59+46 60+04	STH 72, RT STH 72, LT	_	1	1	-
					·	•		92	44+72	STH 72, RT	_		<u></u>		142	60+04	STH 72, LT				
	41 42	28+13 29+04	STH 72, LT STH 72, RT	_	2	_ 1	=	93 94	44+94 44+94	STH 72, LT	-	1	1	-	143	59+75	STH 72, RT	-	-	-	
	43 43	29+04 29+04	STH 72, RT STH 72, RT	-	-	-	-	95	45+53	STH 72, LT STH 72, RT	-	1	1	-	144 145	60+92 60+92	STH 72, RT STH 72, RT	_	1 	_	_
	44	29+23	STH 72, LT		2	1		96	45+53	STH 72, RT			-	-	146	61+88	STH 72, LT	-	1	1	-
	45	29+23	STH 72, LT	_	_	_	_	97 98	46+70 46+70	STH 72, LT	-	1	1	-	147	61+88	STH 72, LT	-			
	45 46	29+23 31+30	STH 72, LT STH 72, LT	_	-	- 1	-	99	46+70 48+09	STH 72, LT STH 72, RT		2	1	-	148 149	62+08 62+08	STH 72, LT STH 72, LT	-	1	1 	-
	47	31+30	STH 72, LT	-		-		100 100	48+09 48+09	STH 72, RT STH 72, RT	-				150 151	62+46 62+55	STH 72, RT	<u></u>	3	<u></u>	-
	48	31+41	STH 128, LT	-	1	1	-										STH 72, RT	-	-	-	-
	49 50	31+41	STH 128, LT	-	-	-	-	101 102	48+94 48+94	STH 72, LT STH 72, LT		2 -	1 -	- -	151 151	62+55 62+55	STH 72, RT STH 72, RT	-	-	<u>.</u>	
	50 51	31+50 31+50	STH 72, RT STH 72, RT	_	T 	1 	_	102 103	48+94 49+80	STH 72, LT STH 72, RT	_	_ •	<u>-</u>	_ _	151A	62+55	STH 72, RT	-		-	-
	52 53	31+73 31+71	STH 72, RT STH 128, ISLAND	-	- 1	 1	-	103	49+80	STH 72, RT					152 153	62+86 62+86	STH 72, LT STH 72, LT		2		
		• • • • • • • • • • • • • • • • • • • •	SUBTOTALS #1 =		29	28	1			SUBTOTALS#2 =	0	28	23	0			SUBTOTALS #3 =	0	26	14	0
				-			_														
								NOTE: A		S ARE IN CATEG	ORY 0010										
F	PROJE	CT NO:	7105-03-72		HWY:	STH 72			COUNT	r: PIERCE		MISCEI	LANEOUS	QUANTIT	IES				SHE	ET	
FI	LE NAME :	R: \PROJECTS\	W11506 STH 72 PIERCE COUNTY 71	05-03-02\CADD	FILES\PRODUCTION	DRAWINGS\ROADWAY	\DFTAILS\MISCELL	ANFOUS QUANTIT	IFS DWG		PLOT D	ATE: 4/29/20 ME: 9:22:10	14	DLOT BY .	ECKELBERG	DATRICK	PLOT SCALE : 0.50000	10	•		DS SHEET

PERMANENT SIGNING - CONTINUED

SIGN			638.2102 MOVING SIGNS TYPE II	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	638.4000 MOVING SMALL SIGN SUPPORTS
<u>NUMBER</u> 153	5TATION 62+86	LOCATION	(EACH)	(EACH)	(EACH)	(EACH)
154	63+17	STH 72, LT STH 72, LT	_	1	1	
155	63+17	STH 72, LT	_	<u>.</u>	<u>.</u>	
156	64+15	OMAHA AVE, LT	_	1	1	
157	64+15	OMAHA AVE, LT	_		_	
158	64+90	STH 72, RT	-		-	
160	66+37	STH 72, LT	-	1	1	
161	66+37	STH 72, LT	-		-	
162	66+44	WOODWORTH ST, LT	-	1	1	
163	66+44	WOODWORTH ST, LT	-		-	
164	66+74	WOODWORTH ST, RT	_	1	1	
165	66+74	WOODWORTH ST, RT	_	<u> </u>	<u>-</u>	<u></u>
166	66+96	WOODWORTH ST, RT	_		_	
167	66+90	STH 72, RT	-	1	-	
168	66+90	STH 72, RT				
169	67+53	STH 72, LT		1	1	
170	67+53	\$TH 72, LT	-	-		••
171 172	68+29 68+29	STH 72, RT STH 72, RT		1	1	
173	69+33	STH 72, KT	-	1	1	
175	05.00	311172,21		•	'	
174	69+33	STH 72, LT		-		
175	69+75	STH 72, LT				
176	69+96	CLARK ST, LT	-	1	1	
177	69+96	CLARK ST, LT		-		
178	70+30	CLARK ST, RT	-	1	1	••
179	70+30	CLARK ST, RT	-	-		
180 181	73+72 74+92	STH 72, LT STH 72, LT	-	1	1	
182	74+92	STH 72, LT		<u>.</u>	-	
183	74+84	STH 72, RT		1	1	••
184	74+84	STH 72, RT		-		
185	75+06	CTH P, LT	-	1	1	
186	75+06	CTH P, LT		-		
187	75+24	CTH P, LT	-	1	1	
188	75+24	CTH P, LT	-	-	-	••
189	75+76	CTH P, RT	_	1	1	_
190	75+76	CTH P, RT	_	<u>.</u>	_	_
191	75+95	CTHP, RT	_	1	_	_
192	75+95	CTH P, RT	_	_	_	_
193	76+16	CTH P, RT	_	_	_	_
4.0.						
194	76+03	STH 72, RT	_	1	1	_
195	76+03	STH 72, RT	_	_	_	-
196 197	76+31 76+31	STH 72, LT STH 72, LT	_	1	1	_
198	78+70	STH 72, RT	_	1	_	_
100	10-10	07112,71		,		
199	78+70	STH 72, RT	_	_	_	_
200	79+08	BIRCH ST, LT	_	1	1	_
201	79+08	BIRCH ST, LT	_	_	_	_
202	79+47	BIRCH ST, RT	_	1	1	_
203	79+47	BIRCH ST, RT	_	_	_	_
004	70.07	CTU 70 CT				
204 205	79+67	STH 72, RT	_	_ 1	_ 1	_
205	81+99 81+99	STH 72, LT STH 72, LT	_	_	_	_
207	82+78	SPRUCE ST, LT	_	1	1	_
208	82+78	SPRUCE ST, LT	_	_	_	_
		•				
		SUBTOTALS #4 =	0	24	21	0

PERMANENT SIGNING - CONTINUED

SIGN NUMBER	STATION	LOCATION	638.2102 MOVING SIGNS TYPE II (EACH)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	638.4000 MOVING SMALL SIG SUPPORTS (EACH)
209	83+08	SPRUCE ST, RT		1	1 (EACH)	(EACH)
210	83+08	SPRUCE ST, RT	-	-		**
211	83+29	STH 72, RT				
212	86+50	PINE ST, LT	_	1	1	
213	86+50	PINE ST, LT	-	-	-	
214	86+74	\$TH 72, RT	_		_	
215	87+54	\$TH 72, LT	_	1	1	
216	87+54	STH 72, LT		-		
217	88+11	STH 72, LT	-	-		
218	88+61	STH 72, RT	-	1	1	••
219	88+61	STH 72, RT	-		_	
220	90+77	STH 72, RT	_	2	2	_
221	90+77	STH 72, RT	_	_	_	_
222	92+47	STH 72, LT	1	_	_	1
223	93+94	STH 72, RT	-	_	_	-
224	94+14	STH 72, LT		1	1	
225	94+14	STH 72, LT	-		-	
226	97+52	STH 72, LT	-	1	2	
227	97+52	STH 72, LT	-	-		
228	99+73	STH 72, LT	_	1	1	
229	99+73	STH 72, LT	_	_	-	_
229	99+73	STH 72, LT	_	_	_	_
230	101+75	STH 72, LT	_	_	_	_
231	102+11	STH 72, RT	_	1	2	_
232	102+11	STH 72, RT			-	
233	102+49	STH 72, LT	-	2	2	
234	102+49	STH 72, LT				
		SUBTOTALS #5 =	1	12	14	1
		SUBTOTALS #1 =	1	29	28	1
		SUBTOTALS #2 =	0	28	23	0
		SUBTOTALS #3 =	0	26	14	0
		SUBTOTALS #4 =	0	24	21	0
		TOTALS =	2	119	100	2

OVERHEAD SIGN SUPPORT

			STRUCTURE	641.8100
CATEGORY	STATION	LOCATION	NUMBER	LS
0040	62+54.60	STH 72, 27.6' RT	01. S-47-0014	1
0050	59+55.85	STH 72, 31.3' LT	02. S-47-0015	1

PLOT SCALE: 0.500000

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

FILE NAME: R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\DETAILS\MISCELLANEOUS QUANTITIES.DWG MODEL

HWY: STH 72

COUNTY: PIERCE

MISCELLANEOUS QUANTITIES

SHEET

WISDOT/CADDS SHEET 43

Ε

PLOT BY: ECKELBERG, PATRICK

PROJECT NO: 7105-03-72

TRAFFIC CONTROL - GENERAL

		643.0100 TRAFFIC CONTROL	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	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	643.0900 TRAFFIC CONTROL SIGNS	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	649.1000 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH	
STATION - STATION	LOCATION	(EACH)	(LF)	(LF)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(LF)	(LF)	REMARKS
-	PROJECT 7105-03-72	1	-	-	-	**	-			••	-	
_	STH 72, RT	-	_	_	-		_		130		_	(1) W20-1, AHEAD
4+25	STH 72, RT	_	_	_	_		_		46		_	(1) W20-1, 1000 FT
9+25	STH 72, RT	_	_	_	_		_		46		_	(1) W20-1, 500 FT
9+25	STH 72, LT	_	_	_	-		_		130		-	(1) G20-2A
107+30	STH 72, RT	-	-	-		**	-		46			(1) G20-2A
107+30	STH 72, LT	-		-		**	-		46			(1) W20-1, 500 FT
112+30	STH 72, LT	-	-	-	-		-		46		-	(1) W20-1, 1000 FT
122+30	STH 72, LT	_	-	-	-		-		46		-	(1) W20-1, AHEAD
-	CTH G	-				**			90			(1) W20-1, AHEAD
_	STH 128	_		_	_		_		46		_	(1) W20-1, AHEAD
_	MARTIN ST	_		_	_		_		46	-	_	(1) W20-1, AHEAD
_	PROJECT DR	_		_	_		_		46		_	(1) W20-1, AHEAD
_	WOODMANST	-			_				46		_	(1) W20-1, AHEAD
_ 	SCOTT ST (SOUTH)			<u> </u>	_				46			(1) W20-1, AHEAD
-	3001131 (3001H)	-	-	-	-	••	-		40		-	(1) W20-1, AREAD
	SCOTT ST (NORTH)	_		-		**	-		46		-	(1) W20-1, AHEAD
	MAIN ST (SOUTH)	-				**			46			(1) W20-1, AHEAD
	WINTER AVE	_		-		**	-		46			(1) W20-1, AHEAD
_	OMAHA AVE (WEST)			_	_		_		46		_	(1) W20-1, AHEAD
-	MAIN ST (NORTH)			-	-		-		46		-	(1) W20-1, AHEAD
	OMAHA AVE (EAST)	-							46			(1) W20-1, AHEAD
-	WOODWORTH ST (SOUTH)	-	••	-	-		-	-	46	-	-	(1) W20-1, AHEAD (1) W20-1, AHEAD
-			-	-	-		-		46 46		-	
-	WOODWORTH ST (NORTH)	-	-	-	-	••	-				-	(1) W20-1, AHEAD
-	CLARK ST (SOUTH)	-	-	-	-		-		46		-	(1) W20-1, AHEAD
-	CLARK ST (NORTH)	-	-	-	-	**	-	••	46		•	(1) W20-1, AHEAD
-	CTH P (SOUTH)	_		-	-		-		46		-	(1) W20-1, AHEAD
_	CTH P (NORTH)	_	_	-	_		_		46		_	(1) W20-1, AHEAD
_	BIRCH ST (SOUTH)	_	_	_	_		_		46		_	(1) W20-1, AHEAD
_	BIRCH ST (NORTH)	_	_	_	_		_		46		_	(1) W20-1, AHEAD
_	SPRUCE ST (SOUTH)	_	_	-	_		_		46		_	(1) W20-1, AHEAD
	SPRUSE ST MOSTIC								40			(4) 14(0) 4 41(545)
-	SPRUCE ST (NORTH)	-	-	-	-		-		46		-	(1) W20-1, AHEAD
-	PINE ST								46			(1) W20-1, AHEAD
	SUBTOTALS #1 =	1	0	0	0	0	0	0	1638	0	0	

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

COUNTY: PIERCE SHEET PROJECT NO: 7105-03-72 HWY: STH 72 MISCELLANEOUS QUANTITIES Ε PLOT SCALE: 0.500000

TRAFFIC CONTROL - STRUCTURE B-47-44 - STAGE 1

STATION - STATION	LOCATION	643.0100 TRAFFIC CONTROL (EACH)	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED (LF)	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED (LF)	643.0300 TRAFFIC CONTROL DRUMS (DAYS)	643.0420 TRAFFIC CONTROL BARRICADES TYPE III (DAYS)	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A (DAYS)	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C (DAYS)	TRAFFIC CONTROL SIGNS (DAYS)	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (LF)	649.1000 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (LF)	REMARKS
	STH 72 & USH 63				-		-		46	-	-	(1 EA.) W12-52, 15'; W057-52, 16 MILES
	STH 72 & STH 25	-				-	-	-	46		-	(1 EA.) W12-52, 15'; W057-52, 7 MILES
_	\$TH 128 & \$TH 29	_	_	_	_	_	_	_	46	_	_	(1 EA.) W12-52, 15'; W057-52, 11 MILES
3+25	\$TH 72, RT	_	_	_	_	_	_	_	23	_	_	(1) W12-52, 15'
8+25	STH 72, RT	-	-	-	-	-	-	-	23	-	-	(1) W20-4, AHEAD
13+25	STH 72, LT & RT	_	_	_	_	_	_	_	46	_	_	(2) WO3-3
13+25	STH 72, LT	-							23		-	(1) G20-2A
18+25	STH 72, RT	-				-	-		23		15	(1) R10-6
18+25 - 19+65	\$TH 72, RT	_	_	_	230	_	_	115	_	_	_	
19+15 - 23+50	\$TH 72, RT	-	435	435	-	-	-	-	-	435	-	
19+60	STH 72, RT					23	46		23			(1) WO1-6
19+65	STH 72, RT	_	_	_	_	_	_	_	23	_	_	(1) W5-52R
20+60	STH 72, LT	_	_	_	_	_	_	_	23	_	_	(1) W5-52L
21+90	STH 72, LT			-	-	-	-		23			(1) W5-52R
22+10	STH 72, LT	-	-	-	-	-	-	-	23	-	-	(1) WO1-4R
23+00	\$TH 72, RT	_	_	_	_	_	_	_	23	_	_	(1) W5-52L
23+00 - 24+40	STH 72, RT	-		-	230	-	-	115		_		
24+40	STH 72, LT	_	_	_	_	_	_	_	23	_	15	(1) R10-6
27+90	STH 72, RT	_	_	_	_	_	_	_	23	_	_	(1) G20-2A
27+90	STH 72, LT & RT	-	-	-	-	-	-	-	46	-	-	(2) WO3-3
31+40	STH 72, LT	_	_	_	_	_	_	_	23	_	_	(1) W20-4, AHEAD
34+90	STH 72, LT	-	_	-	_	-	-	-	23	_	_	(1) W12-52, 15'
38+40	STH 72, LT								23			(1) W20-1, AHEAD
	SUBTOTALS #2 =	0	435	435	460	23	46	230	575	435	30	

TRAFFIC CONTROL - STRUCTURE B-47-44 - STAGE 2

		643.0100 TRAFFIC CONTROL	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	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	643.0900 TRAFFIC CONTROL SIGNS	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	649.1000 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH	
STATION - STATION	LOCATION	(EACH)	(LF)	(LF)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(LF)	(LF)	REMARKS
_	STH 72 & USH 63	-	_	-	_	_	_	_	42	_	_	(1 EA.) W12-52, 13'; WO57-52, 16 MILES
_	STH 72 & STH 25	_	_	_	_	_	-	_	42	_	_	(1 EA.) W12-52, 13'; WO57-52, 7 MILES
-	STH 128 & STH 29				-	-			42	-	-	(1 EA.) W12-52, 13'; WO57-52, 11 MILES
3+25	STH 72, RT				-	-			21			(1) W12-52, 15'
8+25	\$TH 72, RT	-	-	-	-	-	-	-	21	-	-	(1) W20-4, AHEAD
13+25	STH 72, LT & RT				-	_			42	_		(2) WO3-3
13+25	STH 72, LT	_	_	_	_	_	_	_	21	_	_	(1) G20-2A
18+25	STH 72, RT	_	_	_	_	_	_	_	21	_	15	(1) R10-6
18+25 - 19+65	STH 72, LT	-			210	-		105		-		(• • • • • • • • • • • • • • • • • • •
19+15 - 23+50	STH 72, LT	-		435					-	435		
19+65	STH 72, LT	_	_	_	_	_	_	_	21	_	_	(1) W5-52L
20+50	STH 72, RT				-	_			21			(1) WO1-4R
20+71	STH 72, RT				-	_			21			(1) W5-52R
22+08	STH 72, RT	_	_	_	_	_	_	_	21	_	_	(1) W5-52L
23+00	STH 72, LT	-	_	_	_	_	_	_	21	_	_	(1) W5-52R
23+00 - 24+40	STH 72, LT	_	_	_	210	_	_	105	_	_	_	
23+05	\$TH 72, LT	_	_	_	_	21	42	_	21	_	_	(1) WO1-6
24+40	STH 72, LT				-	_			21	-	15	(1) R10-6
27+90	STH 72, RT								21		-	(1) G20-2A
27+90	STH 72, LT & RT	_	_	_	_	_	_	_	42	_	_	(2) WO3-3
31+40	STH 72, LT	-					-		21			(1) W20-4, AHEAD
34+90	STH 72, LT	-		-	-	-		-	21	-		(1) W12-52, 15'
38+40	STH 72, LT								21			(1) W20-1, AHEAD
	SUBTOTALS #3 =	0	0	435	420	21	42	210	525	435	30	

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

TRAFFIC CONTROL - STRUCTURE B-47-77 - STAGE 1

		643.0100 TRAFFIC CONTROL	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	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	643.0900 TRAFFIC CONTROL SIGNS	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	649.1000 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH	
STATION - STATION	LOCATION	(EACH)	(LF)	(LF)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(LF)	(LF)	REMARKS
-	STH 72 & USH 63	-	-	-	-	-	-	-	40	-	_	(1 EA.) W12-52, 13'; W057-52, 16 MILES
_	STH 72 & STH 25	-	-	_	_	-	_	-	40	_	_	(1 EA.) W12-52, 13'; W057-52, 7 MILE\$
	STH 128 & STH 29			-				-	40	-		(1 EA.) W12-52, 13'; W057-52, 11 MILES
27+90	STH 72, RT	_	_	_	_	_	_	_	20	_	_	(1) W20-1, AHEAD
31+40	STH 72, RT	-	-	_	-	_	-	-	20	-	_	(1) W12-52, 13°
34+90	STH 72, RT	-	-	-	_	-	-	-	20	_	-	(1) W20-4, AHEAD
38+40	STH 72, LT	_		_	_	_	_	_	20	_	<u>-</u>	(1) G20-2A
38+40	STH 72, LT & RT	-		_ -			-	-	40	_	_ 	(2) WO3-3
41+40	STH 72, RT	-		<u>.</u>	_			-	20		16	(1) R10-6
41+40 - 43+30	STH 72, RT	_		_	200	_	_	100	_		-	(1) 10-0
41.40-45.30	31.172, 14.				200			100				
42+80 - 45+95	STH 72, RT		315	315		-				315		
43+25	STH 72, RT	_	_	_	_	20	40	_	20	_	_	(1) WO1-6
43+30	STH 72, RT			-		-		-	20			(1) W5-52R
43+60	STH 72, LT			-	-	-		-	20	-		(1) W5-52L
44+45	STH 72, LT	-	-	-	-	-	-	-	20	-	-	(1) W5-52R
44+50	STH 72, LT								20			(1) WO1-4R
44+45	STH 72, RT	_	_	_	_	_	_	_	20	_	_	(1) W5-52L
44+45 - 46+85	STH 72, RT			_	200	_	_	100	_		_	(1) 110-522
46+85	STH 72, LT	_	_						20	-	16	(1) R10-6
46+85	STH 72, LT (C.E.)	_	-	-	-	80	120	_	40	-	-	(1) R10-0 (1) R11-2
40+03	31H 72, C1 (O.E.)	_	-	-	-	00	120	_	40	_	_	(1) K11-2
49+85	STH 72, RT								20			(1) G20-2A
49+85	STH 72, LT & RT	_	_	_	_	_	_	_	40	_	_	(2) WO3-3
51+85	STH 72, LT	_	_	_	_	_	_	_	20	_	_	(1) W20-4, AHEAD
53+85	STH 72, LT	-		-	-			-	20	-	-	(1) W12-52, 13'
55+85	\$TH 72, LT								20			(1) W20-1, AHEAD
	SUBTOTAL #4 =	0	315	315	400	100	160	200	560	315	32	

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

TRAFFIC CONTROL - STRUCTURE B-47-77 - STAGE 2

STATION - STATION	LOCATION STH 72 & USH 63	TRAFFIC CONTROL (EACH)	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED (LF)	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED (LF)	643.0300 TRAFFIC CONTROL DRUMS (DAYS)	643.0420 TRAFFIC CONTROL BARRICADES TYPE III (DAYS)	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A (DAYS)	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C (DAYS)	TRAFFIC CONTROL SIGNS (DAYS)	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (LF)	649.1000 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (LF)	REMARKS (1 EA.) W12-52, 13'; W057-52, 16 MILES
	STH 72 & STH 25			-	-	-	-	-	40	-	-	(1 EA.) W12-52, 13'; W057-52, 7 MILES
 	STH 128 & STH 29	-		-	-		-	-	40	-	-	(1 EA.) W12-52, 13'; W057-52, 11 MILES
27+90	STH 72, RT	-	-	-	-	-	-	-	20	-	-	(1) W20-1, AHEAD
34+40	STH 72, RT	-	-	-	-	-	-	-	20	-	-	(1) W12-52, 13°
34+90 38+40 38+40 41+40	STH 72, RT STH 72, LT STH 72, LT & RT STH 72, RT	 	 	 	- - -	- - -	 	- - -	20 20 40 20	- - -	 - - 16	(1) W20-4, AHEAD (1) G20-2A (2) WO3-3 (1) R10-6
41+40 - 42+80	STH 72, LT	_	_	_	200	_	_	100	_	_	_	(1)
42+30 - 45+95	STH 72, LT	<u></u>	50	365	-			-		365	-	
42+80	STH 72, LT								20	-		(1) W5-52L
43+55	STH 72, RT			-					20			(1) WO1-4R
43+60	STH 72, RT	_	_	_	_	_	_	_	20	_	_	(1) W5-52R
44+45	STH 72, RT	_	_	_	_	_	_	_	20	_	_	(1) W5-52L
45+45	STH 72, LT	-		-	-	_	-	-	20	_		(1) W5-52R
45+45 - 46+85	STH 72, LT	-	-	-	200		-	100	-	-		
45+50	STH 72, LT	-	-	-	-	20	40	-	20	-		(1) WO1-6
46+85	STH 72, LT	-	-	-	-	-	-	-	20	-	16	(1) R10-6
46+85	STH 72, LT (C.E.)	-	-	-	-	80	120	-	40	-	-	(2) R11-2
49+85	STH 72, RT								20	-	-	(1) G20-2A
49+85	STH 72, LT & RT	-	-	-	-	-	-	-	40	-	-	(2) WO3-3
51+85	STH 72, LT	-		-	-	-	-	-	20	-	-	(1) W20-4, AHEAD
53+85	STH 72, LT	_	_	_	_	_	_	_	20	_	_	(1) W12-52, 13'
55+85	STH 72, LT								20			(1) W20-1, AHEAD
	SUBTOTAL #5 =	0	50	365	400	100	160	200	560	365	32	
	SUBTOTAL #1 =	1	0	0	0	0	0	0	1638	0	0	
	SUBTOTAL #2 =	Đ	435	435	460	23	46	230	575	435	30	
	SUBTOTAL #3 =	0	0	435	420	21	42	210	525	435	30	
	SUBTOTAL #4 =	0	315	315	400	100	160	200	560	315	32	
	TOTAL =	1	800	1550	1680	244	408	840	3858	1550	124	

TEMPORARY PAVEMENT MARKING 4-INCH

		649	.0100
		YEL	LOW
		SOLID	DASHED
STATION - STATION	LOCATION	LF	(LF)
14+25 - 31+66	STH 72, C/L	6964	
32+16 - 58+74	STH 72, C/L	10633	
59+55 - 62+33	STH 72, C/L	1108	_
63+22 - 66+78	STH 72, C/L	712	178
66+84 - 68+25	STH 72, C/L	282	70
68+25 - 75+19	STH 72, C/L		348
75+25 - 80+30	STH 72, C/L	_	252
80+30 - 85+35	STH 72, C/L	1010	252
85+35 - 102+30	STH 72, C/L	6786	
	SUBTOTALS =	27495	1100
	TOTAL =	28	595

NOTE: SAME DAY TEMPORARY PAVEMENT MARKINGS FOR CENTERLIN AND NO-PASSING BARRIER LINES USED ON MILLED AND INTERMEDIAT PAVEMENT LAYERS

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO: 7105-03-72 HWY: STH 72 COUNTY: PIERCE MISCELLANEOUS QUANTITIES

FILE NAME: R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\ROADWAY\DETAILS\MISCELLANEOUS QUANTITIES.DWG

PLOT DATE : 4/29/2 PLOT TIME : 9:23:3 PLOT BY: ECKELBERG, PATRICK

PLOT SCALE: 0.500000

SHEET

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PAVEMENT MARKING

			646.0106 /EMENT MARK EPOXY 4-INCH		646.0126 PAVEMENT MARKING EPOXY 8-INCH	647.0206 PAVEMENT MARKING BIKE LANE EPOXY	647.0306 PAVEMENT MARKING BIKE LANE EPOXY	647.0566 PAVEMENT MARKING STOP LINE EPOXY	647.0656 PAVEMENT MARKING STALL	647.0766 PAVEMENT MARKING CROSSWALK EPOXY	647.0786 PAVEMENT MARKING CROSSWALK EPOXY
STATION-STATION	LOCATION	SOLID YELLOW (LF)	DASHED YELLOW (LF)	SOLID WHITE (LF)	SOLID WHITE (LF)	ARROWS WHITE (EACH)	SYMBOLS WHITE (EACH)	18-INCH WHITE (LF)	EPOXY WHITE (LF)	6-INCH WHITE (LF)	18-INCH WHITE (LF)
14+25 - 15+77	STH 72, LT		\ <u>-</u> -	156		(EAOH)			/=+/		
14+25 - 32+93	STH 72, RT	_	_	1849	_	_	_	_	_	_	_
14+25 - 31+66	STH 72, C/L	3482	_	_	_	_	_	_	_	_	_
16+24	CTH G, LT	_	_	_	109	_	_	_	_	_	_
16+39	CTH G, C/L	84	-		-	-	-	-	-	-	
16+99 - 18+99	\$TH 72, LT	_	_	_	200		-	-	_	_	_
16+99 - 31+56	STH 72, LT	_	_	1493	-		-	-	-	-	_
31+57	STH 128, LT							19			
31+66	STH 128, LT		-		111	-	-			-	
31+83	STH 128, LT	-	-	-	-	-	-	16	-	-	-
31+91	STH 128, C/L	72	_		_	_	_	_	_	-	_
32+16 - 55+06	STH 72, LT		-	2301	-	-	-	-	-	-	-
32+16 - 58+74	STH 72, C/L	5316	-	-	-	-				-	
32+50 - 34+00	STH 72, LT	-	-		150	-	-	-	-	-	-
33+53 - 39+78	\$TH 72, RT	-	-	626	-		-	-	-	-	-
40.50 54.00	STILZO BY			4000							
40+52 - 51+39	STH 72, RT	-	-	1092	-	-	-	-	-	-	-
52+60 - 55+06	STH 72, RT		-	243		-			-		-
55+40 55+53 - 58+13	S. SCOTT ST. STH 72, RT	_	_	_	_	_	_	_	430	55 _	_
56+33 - 58+13	STH 72, KT	_	_	_	_	_	_	_	331	_	_
30+33 - 34+13	311172, 21	_	_	_	_	_	_	_	331	_	_
59+59 - 62+28	STH 72, RT	_	_		_	_	_	_	300	_	_
59+75 - 62+09	\$TH 72, LT	_	_	_	<u> </u>		<u>"</u>	<u>-</u>	284	<u>-</u>	_
55+70 - 58+74	\$TH 72, LT	_	_	608	<u> </u>		_	_	_	_	_
55+70 - 58+74	STH 72, RT	-	-	608	-		-	-	-		-
55+76	STH 72, RT			-			1				
55.75	• · · · · · · · · · · · · · · · · · · ·						·				
55+82	STH 72, RT	_	_	_	_	1	_	_	_	_	_
56+85	STH 72, LT	_	_	_	_	1	_	_	_	_	_
56+91	STH 72, LT	-	-	-	-	-	1			-	-
57+42	STH 72, RT					-	1		-	-	
57+48	\$TH 72, RT	_	_	_	-	1	_	-	_	_	_
58+55	\$TH 72, LT	-	-	-	_	1	-	-	-	-	-
58+61	STH 72, LT	-	-		-	-	1	-	-	-	
58+74	STH 72					-			-	55	
58+74 - 58+80	STH 72	_	-	_		_	-	_	_	-	114
58+80	STH 72	_	_	_	_	_	_	_	_	60	_
59+13	S MAIN ST	-	-	-	-	-	-			120	117
59+13	W WINTER AVE	-	-	-	-	-	-			117	117
59+49	\$TH 72	-	-	_	_		_	-	-	58	-
59+49 - 59+55	\$TH 72	-	-	-	-		_	-	-	-	114
5 9+ 55	STH 72	-	-	-	-	-	•	-	-	57	-
59+55 - 62+33	STH 72, C/L	554									
62+37	STH 72, C/C STH 72	554	-	-	-					73	-
62+37 - 62+45	STH 72	_	_	_	_	_	_	_	_	-	160
62+45	STH 72	_	_	_	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	80	100
63+16	STH 72		_	_			"	"	"	44	<u>-</u>
03710	311172		-	-	-	-				44	-
63+16 - 63+22	STH 72	_	_	_	_		_	_	_	_	86
63+22	STH 72	_	_	_	_		_	_	_	42	_
63+22 - 66+78	STH 72, C/L	356	89						-		-
64+54 - 66+24	STH 72, LT	_	-	171							-
66+57	S. WOODWORTH ST.	_	_	_	_	_	_	_	_	66	_
66+78	STH 72	_	_	_	_	_	_	_	_	50	_
66+78 - 66+84	STH 72		-		-	-				-	92
66+84	STH 72				-					43	-
66+84 - 68+25	STH 72, C/L	141	35	_	_		_	-	_	_	_
66+98 - 69+80	\$TH 72, LT			282			<u> </u>				
	SUBTOTALS #1 =	10005	124	9429	570	4	4	35	1345	920	800

NOTE: ALL ITEMS ARE IN CATEGORY 0010 UNLESS NOTED OTHERWISE.

PAVEMENT MARKING - CONTINUED

ı				646.0106		646.0126	647.0206	647.0306	647.0566	647.0656	647.0766	647.0786
╝				EMENT MARK		PAVEMENT MARKING						
7				EPOXY 4-INCH		EPOXY 8-INCH	BIKE LANE EPÖXY	BIKE LANE EPOXY	STOP LINE EPOXY	STALL	CROSSWALK EPOXY	CROSSWALK EPOXY
ı			SOLID	DASHED	SOLID	SOLID	ARROW\$	SYMBOLS	18-INCH	EPÓXY	6-INCH	18-INCH
ı			YELLOW	YELLOW	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
ı	STATION-STATION	LOCATION	(LF)	(LF)	(LF)	(LF)	(EACH)	(EACH)	(LF)	(LF)	(LF)	(LF)
	68+25 - 75+19	STH 72, C/L	_	174	_	_		_	_	_	_	_
'	70+15	S. CLARK ST.			-	-		-			58	-
ı	70+46 - 75+00	STH 72, LT			455	-		-	-		-	-
ı	75+19	\$TH 72	-	-	-	_		_	_	-	44	_
ı	75+25	\$TH 72	-	-	-	_		_	_	-	48	_
4												
ı	75+25 - 80+30	STH 72, C/L		126		-		-				-
ı	75+50	CTH P (NORTH)	44	_	_	_		_	21	_	96	_
ı	75+50	CTH P (SOUTH)	53	_	_	_		_	21	_	96	_
ı	75+91 - 78+88	STH 72, LT			297	-		-	-		-	-
ı	79+28	S. BIRCH ST.	-	-	-	-		-	-	-	77	-
ı												
ı	79+57 - 82+63	\$TH 72, LT	-	-	305	-		_	_	-	-	-
ı	80+30 - 85+35	STH 72, C/L	505	126		-		-				-
ı	82 +9 2	S. SPRUCE ST.	-		-	-		-	-	-	51	-
ı	83+25 - 102+30	STH 72, RT	_	_	1903	_		_	_	_	_	_
ı	83+26 - 86+33	STH 72, RT	-	_	305	_		_	_	_	_	_
ı												
ı	85+35 - 102+30	STH 72, C/L	3393	-	-	-	**	-	-		-	-
ı	87+07 - 102+30	\$TH 72, LT			1526							
ı		SUBTOTALS #2 =	3995	426	4791	O	D	0	42	0	470	0
ı		305101AC3#2-	3333	420	4751	ŭ	ŭ	v	72	ŭ	470	ŭ
ı		SUBTOTALS #1 =	10005	124	9429	570	4	4	35	1345	920	800
		TOTALS =		28770		570	4	4	77	1345	1390	800

LOCATING NO-PASSING ZONES

		668.0100
STATION - STATION	LOCATION	MI
14+25 - 102+30	STH 72	1.67
	TOTAL -	4.67

SILT FENCE

		628.1504	628.152 SILT FENCE
		SILTFENCE	MAINTENANCE
STATION - STATION	LOCATION	(LF)	(LF)
16+95 - 17+65	STH 35, LT (710TH AVE)	85	170
18+90 - 19+75	STH 35, RT	80	160
21+95 - 22+55	STH 35, RT	70	140
22+75 - 23+75	STH 35, RT	110	220
25+05 - 26+05	STH 35, LT	110	220
	UNDISTRIBUTED	95	190
	TOTALS =	550	1100

TEMPORARY TRAFFIC SIGNALS FOR BRIDGES 01. B-47-044

	661.0100
LOCATION	LS
STH 72	1

SIGNAL SEQUENCE						
STRUCTURE B-47-044						
INVERAL	EB	WB	SECONDS	PERCENT		
1	G	R	12	20		
2	Y	R	4	7		
3	R	R	14	23		
4	R	G	12	20		
5	R	Y	4	7		
6	R	R	14	23		
CYCLE LENGTH = 60 SECONDS						
	1 2 3 4 5 6	STRUC EB 1	STRUCTURE B-47-0 INVERAL	STRUCTURE B-47-044		

TEMPORARY TRAFFIC SIGNALS FOR BRIDGES 02. B-47-077

	661.0100
LOCATION	LS
STH 72	1

SIGNAL SEQUENCE							
	STRUCTURE B-47-077						
			NORTH	SOUTH			
INVERAL	EB	₩B	DRIVEWAY	DRIVEWAY	SECONDS	PERCENT	
1	G	R	R	R	16	15	
2	Y	R	R	R	4	4	
3	R	R	R	R	16	15	
4	R	G	R	R	16	15	
5	R	Υ	R	R	4	4	
6	R	R	R	R	16	15	
7	R	R	G	R	5	5	
8	R	R	Υ	R	2	2	
9	R	R	R	R	12	11	
10	R	R	R	G	5	5	
11	R	R	R	Y	2	2	
12	R	R	R	R	12	11	

CYCLE LENGTH = MINIMUM 72 SECONDS, MAXIMUM 110 SECONDS

CONSTRUCTION STAKING

STATION - STATION	LOCATION	650.4000 STORM SEWER (EACH)	650.5500 CURB GUTTER AND CURB & GUTTER (LF)	650.8000 RESURFACING REFERENCE (LF)	650.9910 SUPPLEMENTAL CONTROL (LS)
14+25 - 102+30	STH 72	_		8805	1
22+30.60	STH 72, RT	2			-
43+25.00 - 43+59.01	STH 72, LT	_	33	_	-
44+42.33 - 44+75.00	\$TH 72, LT	-	33	-	-
58+72.13 - 59+65.37	STH 72, LT	_	35	_	_
62+41.24 - 63+26.80	STH 72, RT	-	37	-	-
62+46.44	STH 72, RT	1			
		3	138	8805	1

PROJECT NO: 7105-03-72

HWY: STH 72

COUNTY: PIERCE

MISCELLANEOUS QUANTITIES

SHEET

PLOT SCALE: 0.500000

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PLOT BY: ECKELBERG, PATRICK

WISDOT/CADDS SHEET 43

SAWING ASPHALT & SAWING CONCRETE

STATION	LOCATION	690.0150 SAWING ASPHALT (LF)	690.0250 SAWING CONCRETE
14+25	STH 72	24	(LF)
16+41	STH 72, LT (CTH G)	53	_
26+11	STH 72, LT (P.E.)	12	
27+17	STH 72, RT (C.E.)	33	_
27+47	STH 72, KT (O.E.)	17	•
27747	31H 72, LT (F.E.)	.,	-
28+14	\$TH 72, RT (P.E.)	12	_
29+49	STH 72, LT (P.E.)	18	
30+24	STH 72, RT (C.E.)	45	
31+05	STH 72, LT (P.E.)	9	_
31+90	STH 72, LT (STH 128)	56	_
22.02	CTU TO DT MANDEW OT	0.4	
33+23	\$TH 72, RT (MARTIN \$T)	21	-
34+85	\$TH 72, RT (P.E.)	10	-
36+10	STH 72, LT (P.E.)	14	-
40+16	STH 72, RT (PROJECT DR)	31	-
43+25	STH 72, LT	_	3
44+75	STH 72, LT	-	3
52+32	STH 72, RT (WOODMAN ST)	70	-
55+18	\$TH 72, RT	_	5
55+40	STH 72, LT (SCOTT ST)	34	_
55+40	STH 72, RT (SCOTT ST)	27	
			_
55+62	STH 72, RT	_	5
58+72	STH 72, LT	_	15
58+83	STH 72, LT	-	4
59+13	\$TH 72, RT (MAIN \$T)	57	-
59+13	STH 72, RT (WINTER AVE)	55	-
59+65	STH 72, LT	_	10
62+41	STH 72, RT	_	10
62+86	STH 72, LT (OMAHA AVE)	90	_
62+86	STH 72, LT (MAIN ST)	57	-
63+27	STH 72, RT	-	10
	*		
64+36	STH 72, LT (OMAHA AVE)	31	-
66+58	STH 72, RT (WOODWORTH ST)	22	-
66+63	STH 72, LT (WOODWORTH ST)	28	
70+14	STH 72, LT (CLARK ST)	55	_
70+14	STH 72, RT (CLARK ST)	23	-
75+50	STH 72, LT (CTH P)	40	_
75+50	STH 72, RT (CTH P)	37	_
72+28	STH 72, LT (BIRCH ST)	28	
72+28	STH 72, RT (BIRCH ST)	26	
82+92	STH 72, LT (SPRUCE ST)	20	_
82+92	STH 72, RT (SPRUCE ST)	21	-
86+61	STH 72, LT (PINE ST)	21	-
102+30	\$TH 72	28	
	TOTALS =	1125	65

CLEANING DITCHES

			FOR INFORMATION ONLY			
STATION - STATION	LOCATION	SPV.0090.01 (LF)	TOPSOIL (\$Y)	MULCHING (SY)	FERTILIZER TYPE B (CWT)	SEEDING MIXTURE NO. 40 (LB)
30+60 - 35+60	STH 72, RT	400	450	450	0.3	8
31+16 - 31+58	STH 72, LT	80	90	90	0.1	2
32+18 - 34+15	STH 72, LT	230	260	260	0.2	5
	TOTALS =	710	800	800	0.6	15

CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT

		SPV.0090.02
STATION - STATION	LOCATION	<u>LF</u>
43+25.00 - 43+59.01	STH 72, LT	33
44+42.33 - 44+75.00	\$TH 72, LT	33
58+72.13 - 59+65.37	STH 72, LT	35
62+41.24 - 63+26.80	STH 72, RT	37
	TOTAL ≃	138

PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING SPECIAL

	SPV.0105.01
LOCATION	LS
PROJECT 7105-03-72	1

CONCRETE SIDEWALK **CURE AND SEAL TREATMENT**

	SPV.0165.01
LOCATION	\$F
STH 72, LT	149
STH 72, LT	149
\$TH 72, RT	39
STH 72, RT	39
STH 72, LT	258
STH 72, RT	266
TOTAL =	900
	STH 72, LT STH 72, LT STH 72, RT STH 72, RT STH 72, LT STH 72, RT

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS SPECIAL

		364.0170.01
STATION - STATION	LOCATION	(STA)
14+25 - 102+30	STH 72	88
	TOTAL ≃	88

PROJECT NO: 7105-03-72 HWY: STH 72 COUNTY: PIERCE MISCELLANEOUS QUANTITIES

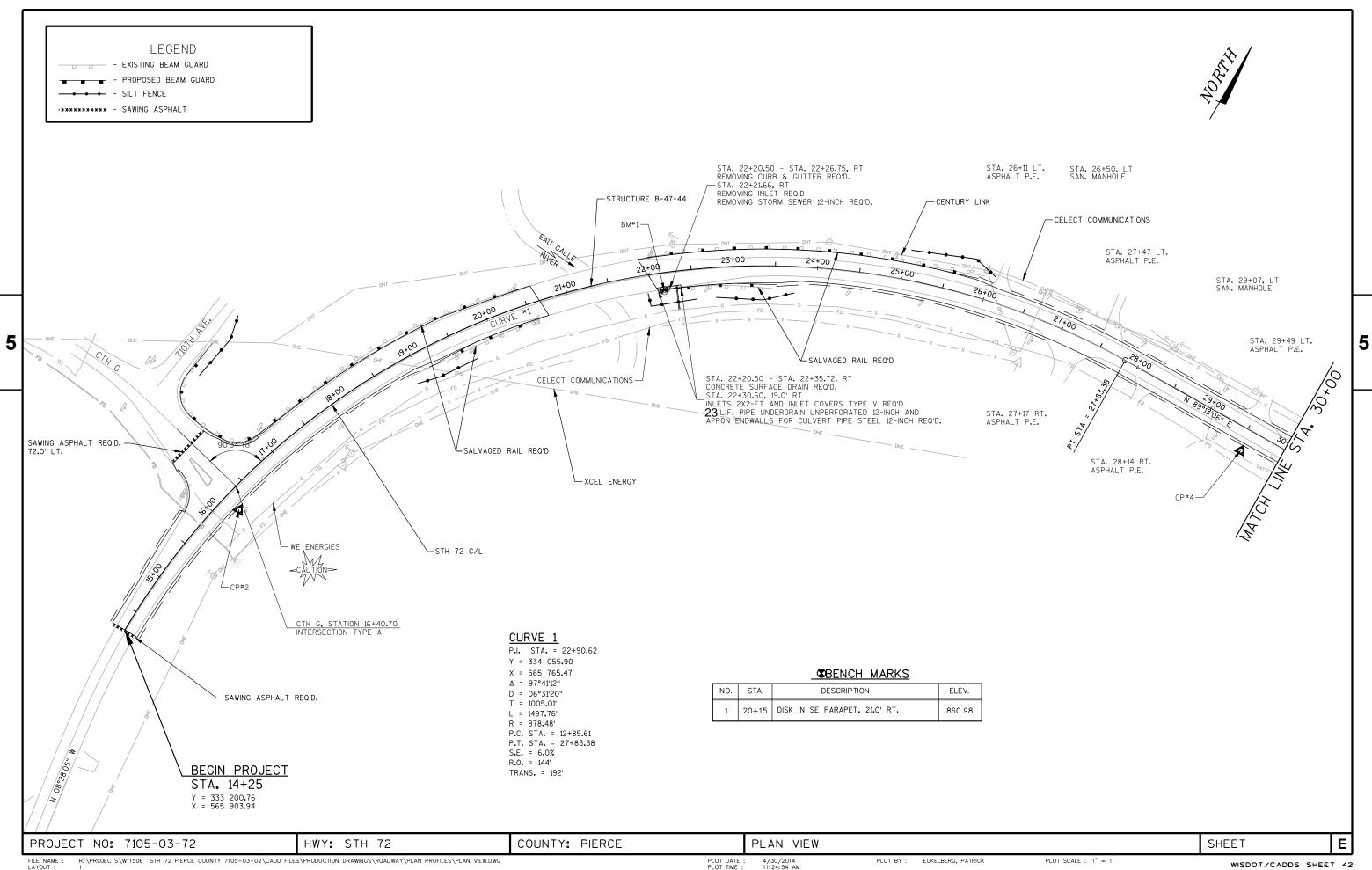
PLOT BY : ECKELBERG, PATRICK

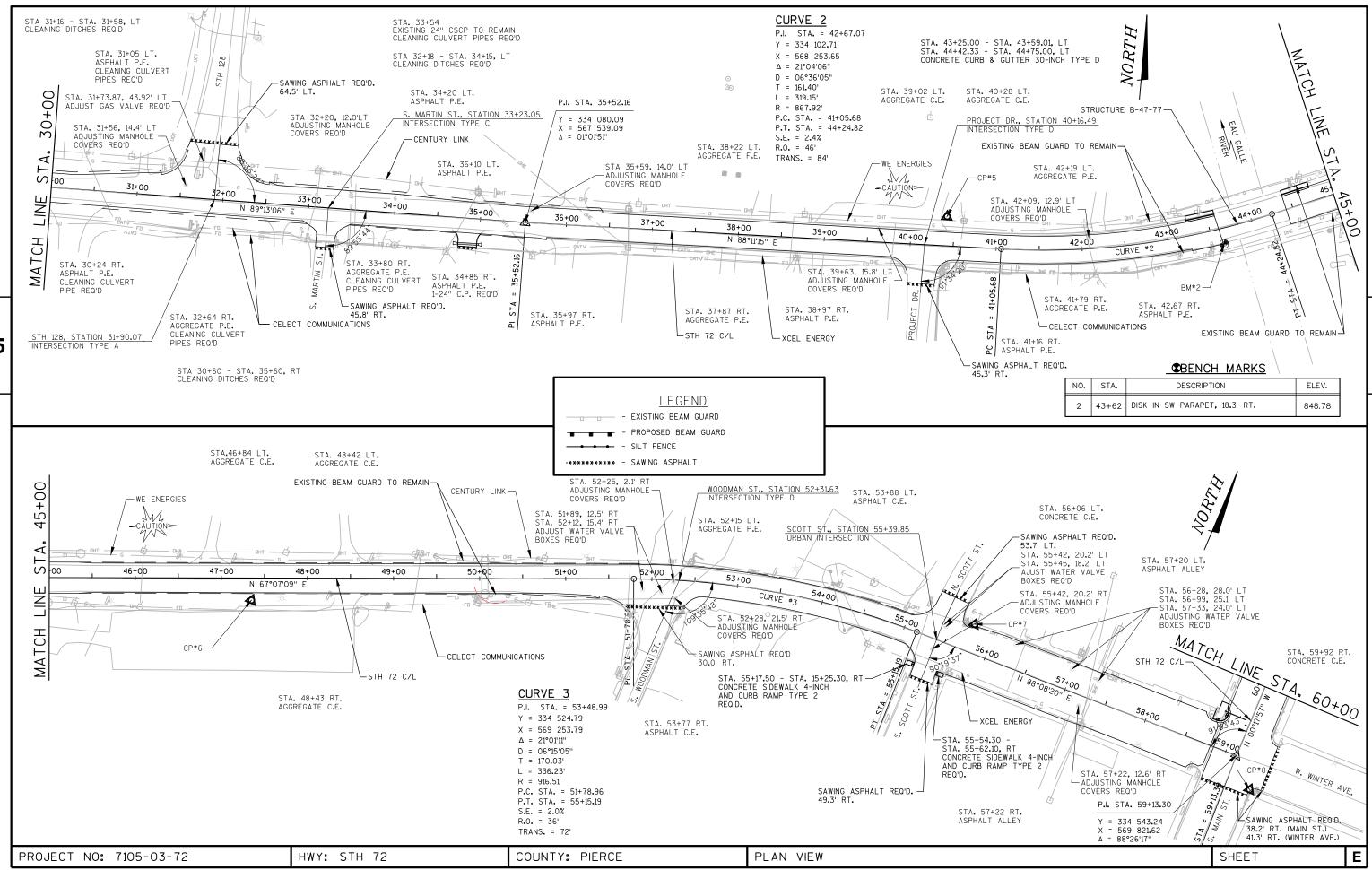
PLOT SCALE: 0.500000

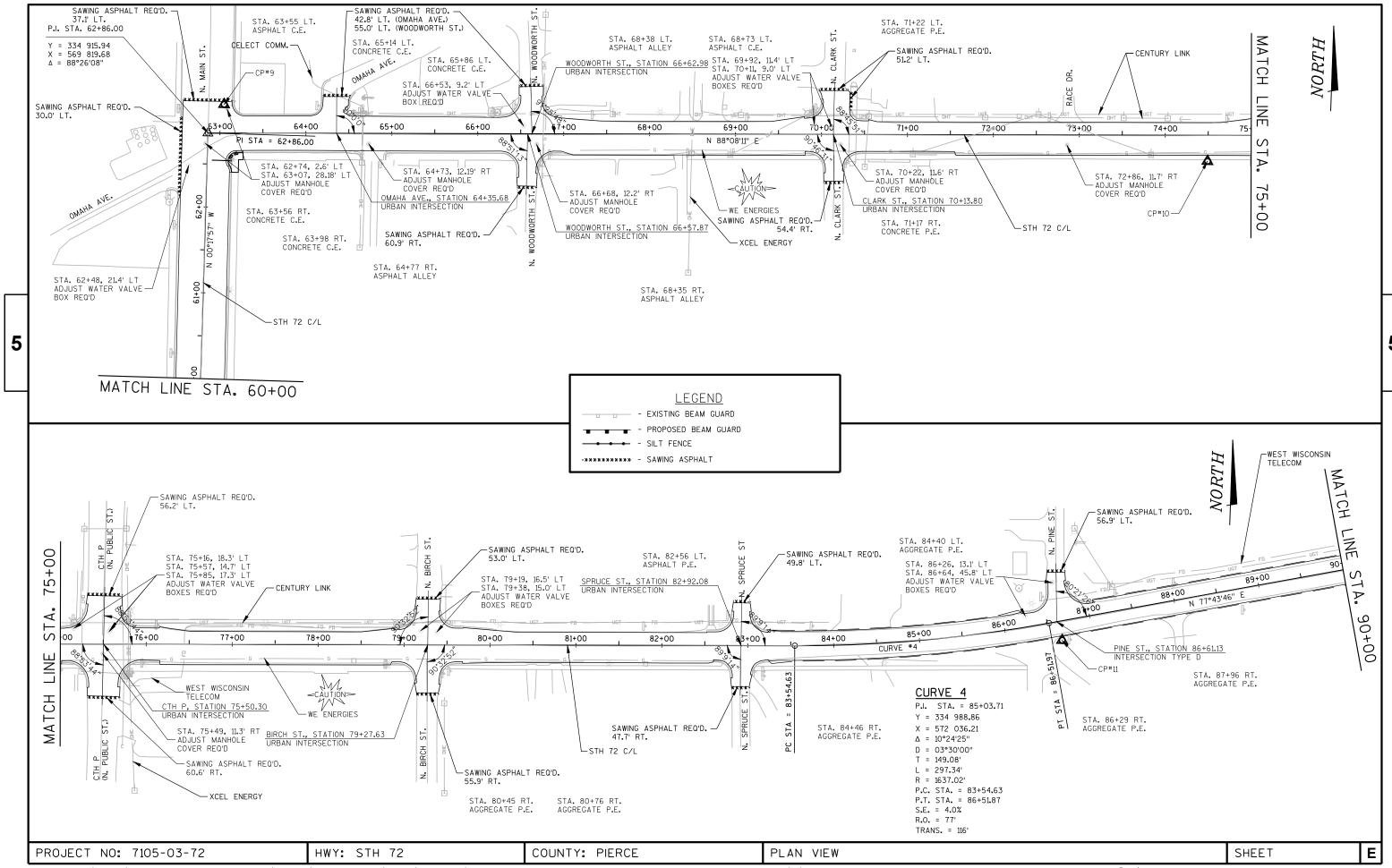
WISDOT/CADDS SHEET 43

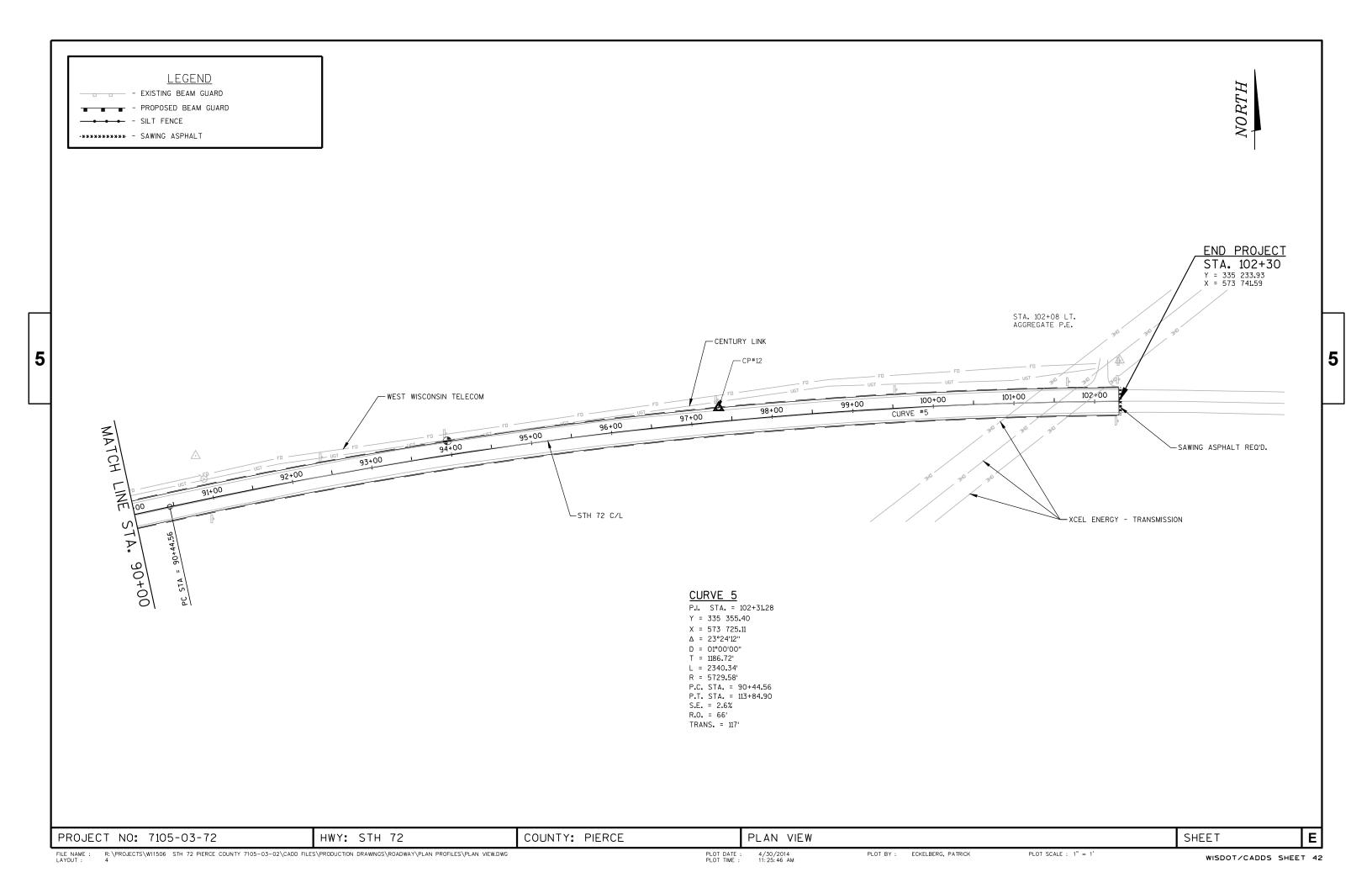
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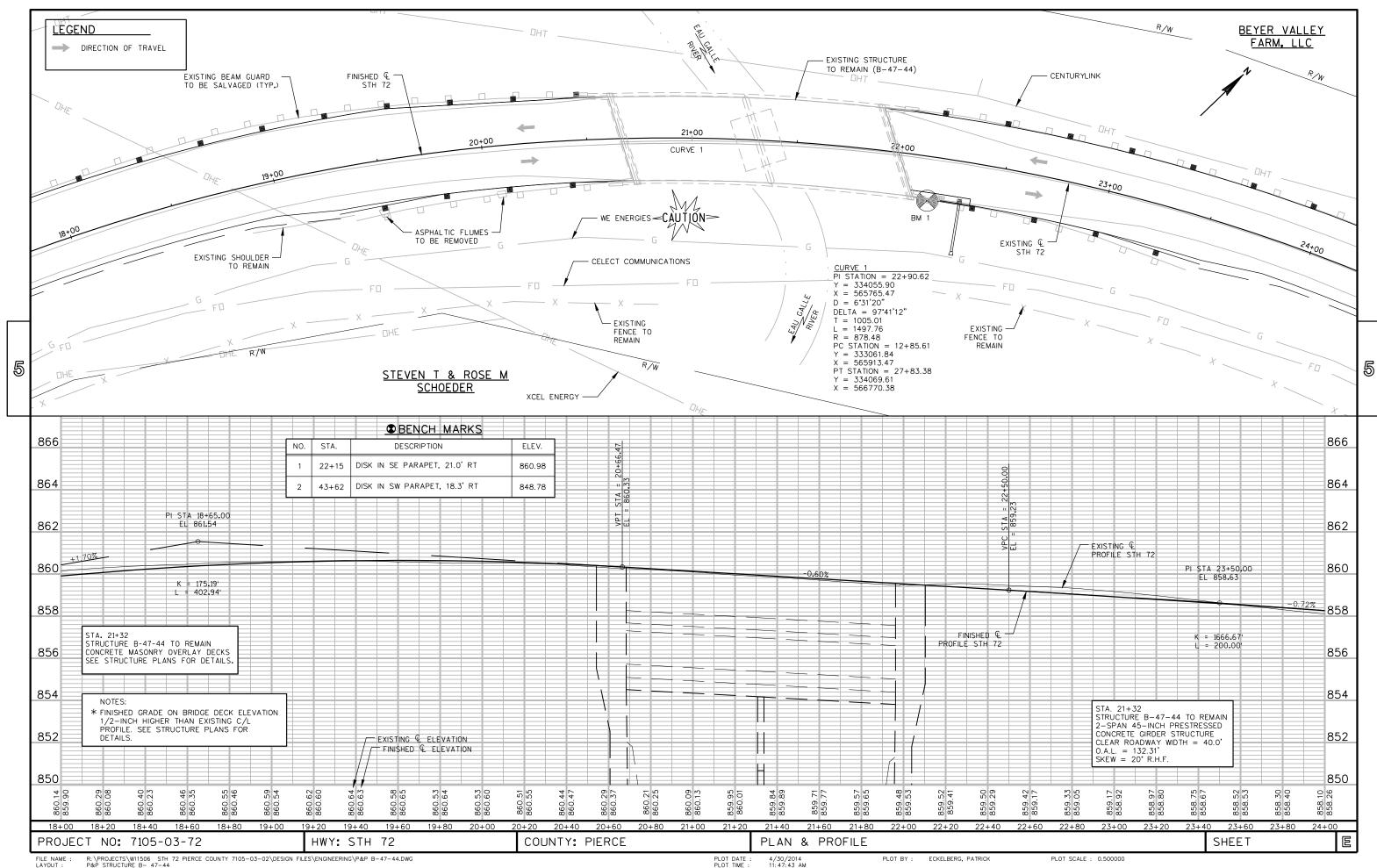
SHEET

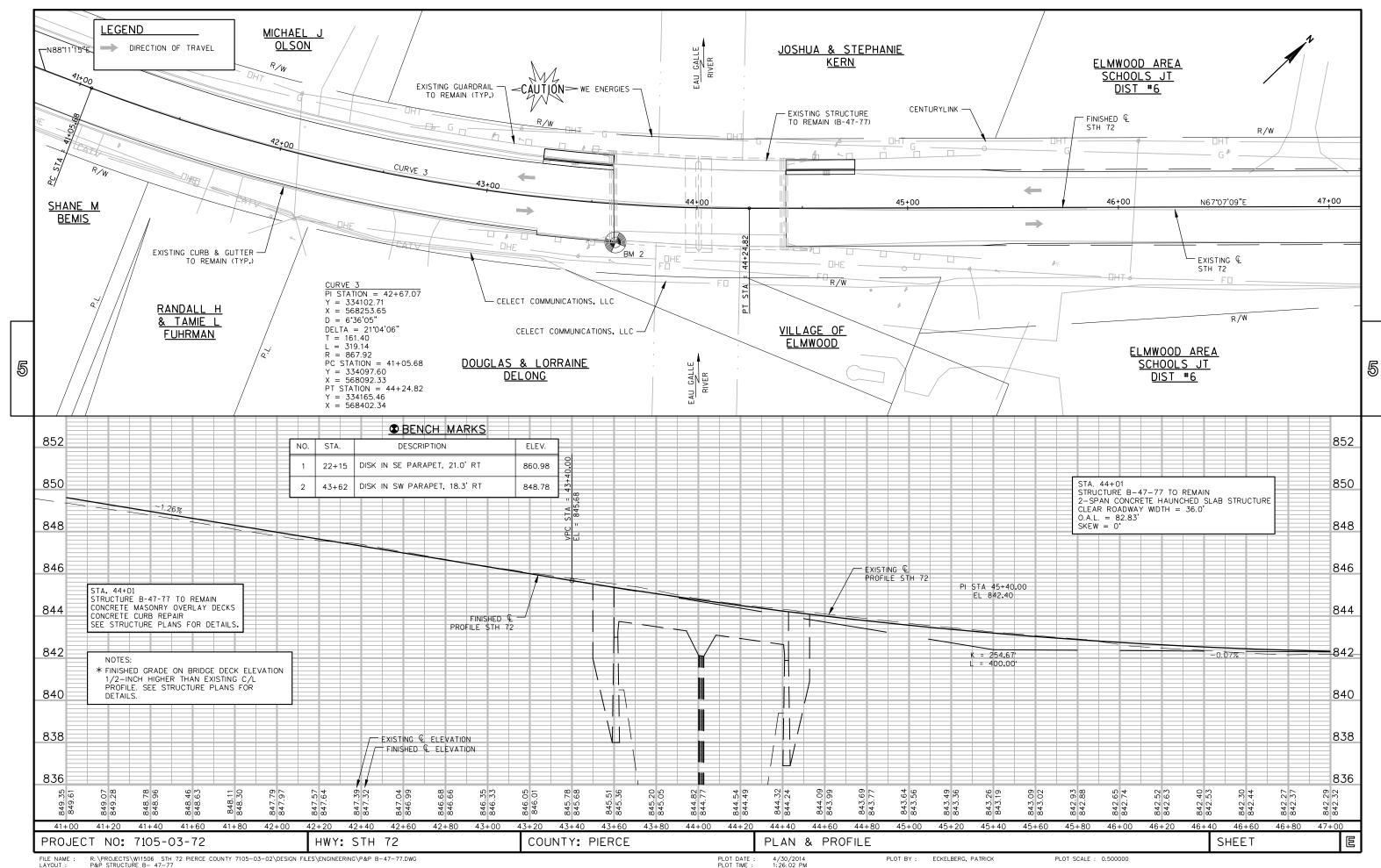








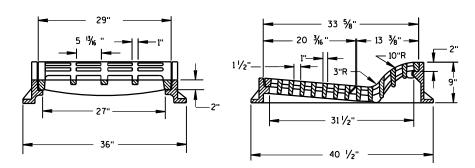




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Standard Detail Drawing List

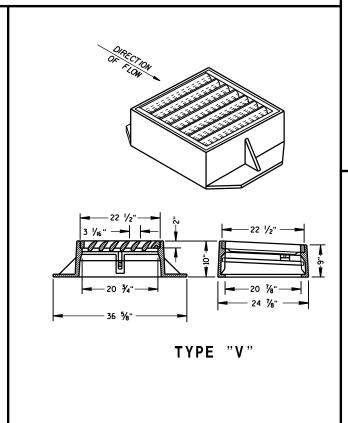
```
08A05-19C
               INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C07-01
                INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-17
                CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D03-06
                CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
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
08F01-11
                APRON ENDWALLS FOR CULVERT PIPE
08F04-07
                JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09G02-03A
                BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03B
               BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03C
                BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A04-03
                STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
14B07-13A
                CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B
                CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C
                CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D
                CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
               CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E
14B07-13F
               CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G
               CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H
14B15-07A
                CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
               STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
               STEEL PLATE BEAM GUARD, CLASS A INSTALLATION & ELEMENTS
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B15-07B
14B15-07C
14B18-06A
14B20-11A
                STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11B
                STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B20-11C
                STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO VERTICAL FACED PARAPETS
14B20-11D
                STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS
14B20-11E
                STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
               STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPE "M"
14B20-11F
                STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B20-11G
               STEEL THRIE BEAM STRUCTURE APPROACH, SINGLE SLOPE ATTACHMENT
14B20-11H
14B24-07A
                STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07B
                STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07C
                STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B27-01A
                STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B
                STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C
                STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B29-01
                SAFETY EDGE
15A03-02A
                FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B
                FLEXIBLE MARKER POST FOR CULVERT END
15C03-02
                BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-02
               TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-02
                TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-07
                SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A
                PAVEMENT MARKING (MAINLINE)
15C08-16B
                PAVEMENT MARKING (INTERSECTIONS)
15C08-16F
                PAVEMENT MARKING (ISLANDS)
15C12-04
                TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
                MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-02A
15C22-02
                24" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C29-03A
               BICYCLE LANE MARKING
15C29-03C
                URBAN BICYCLE LANE MARKING
15C29-03E
                PAVEMENT MARKING FOR BIKE LANES
15C33-01
                STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02
                TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-01
                TRAFFIC CONTROL, SIDEWALK CLOSURE
15D33-03
                TRAFFIC CONTROL. ONE LANE ROAD WITH TEMPORARY SIGNALS
```



TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

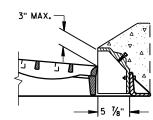
25 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 25 ½" 23 ½" 25 ½" 25 ½" 26 ½" 27 ½" 28 ½" 28 ½" 29 ½" 20 ½"



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.

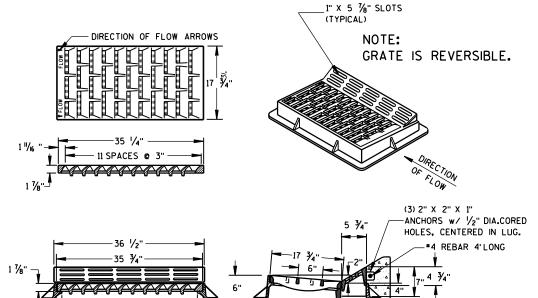
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

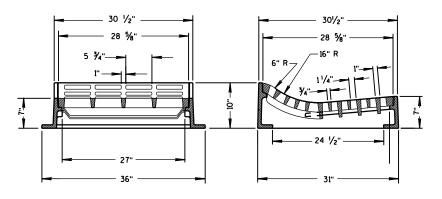
NOIE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE



TYPE "HM"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



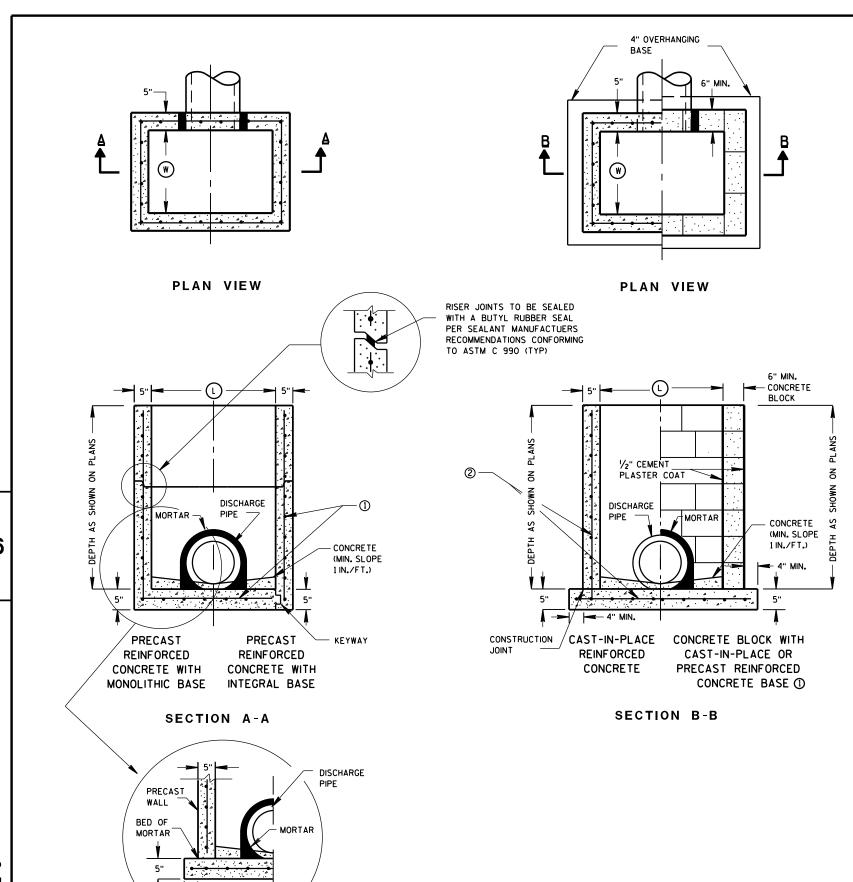
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

II/27/2013
DATE / /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

A 5-19

D.D. 8



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.

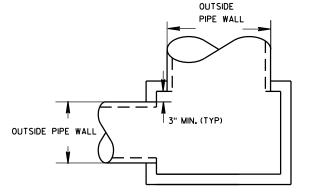
- 1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

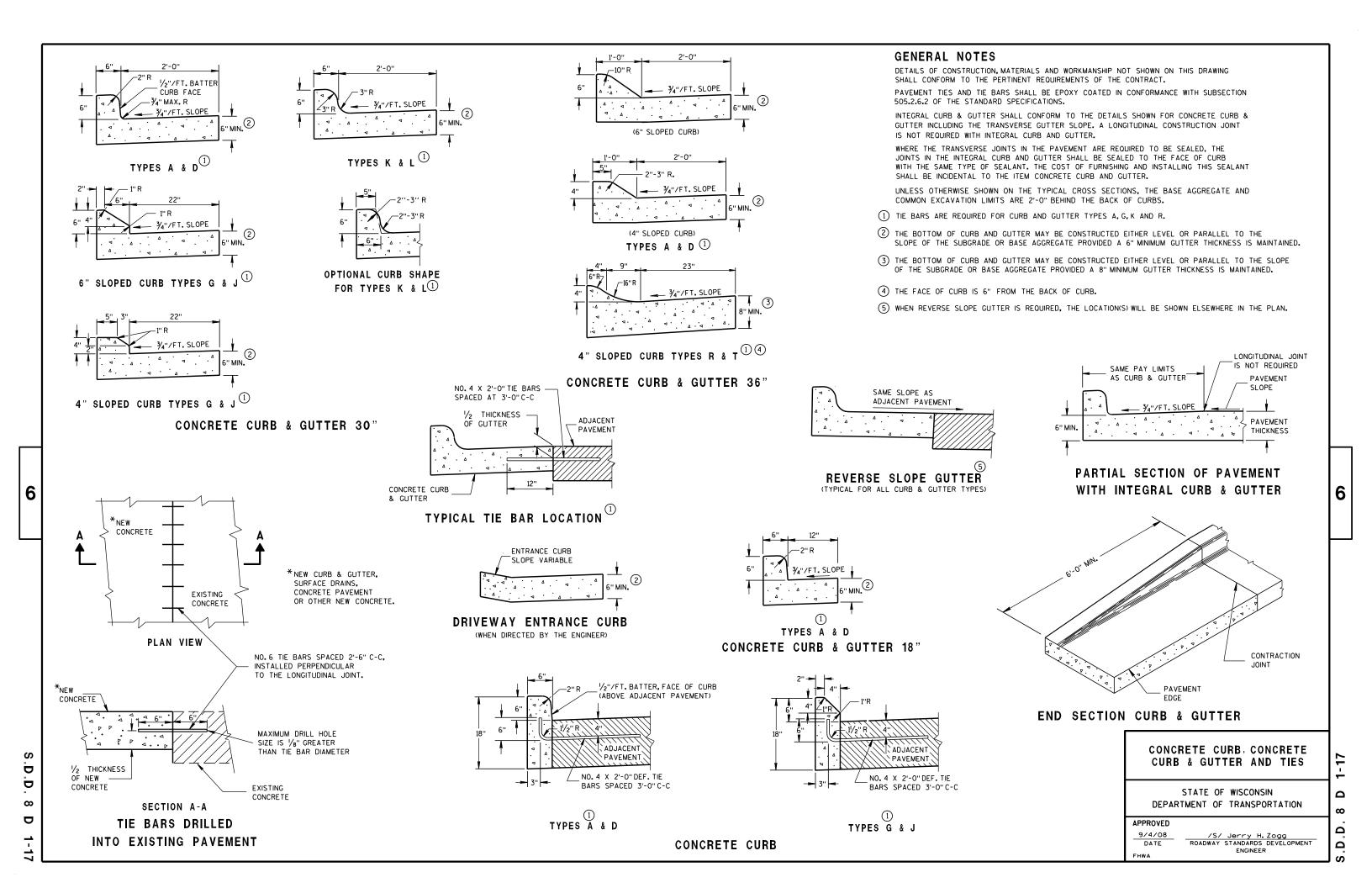
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

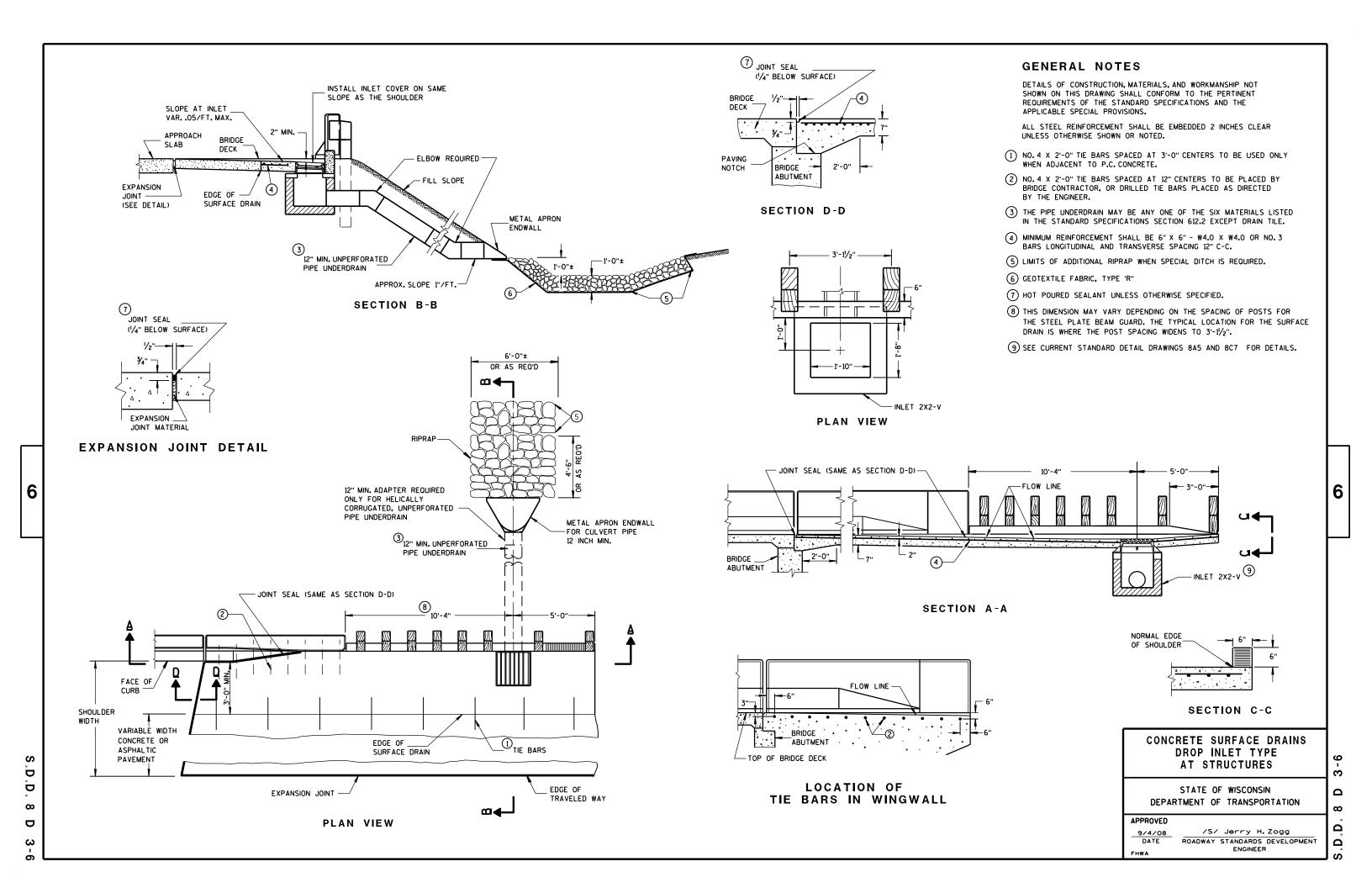
ENGINEER

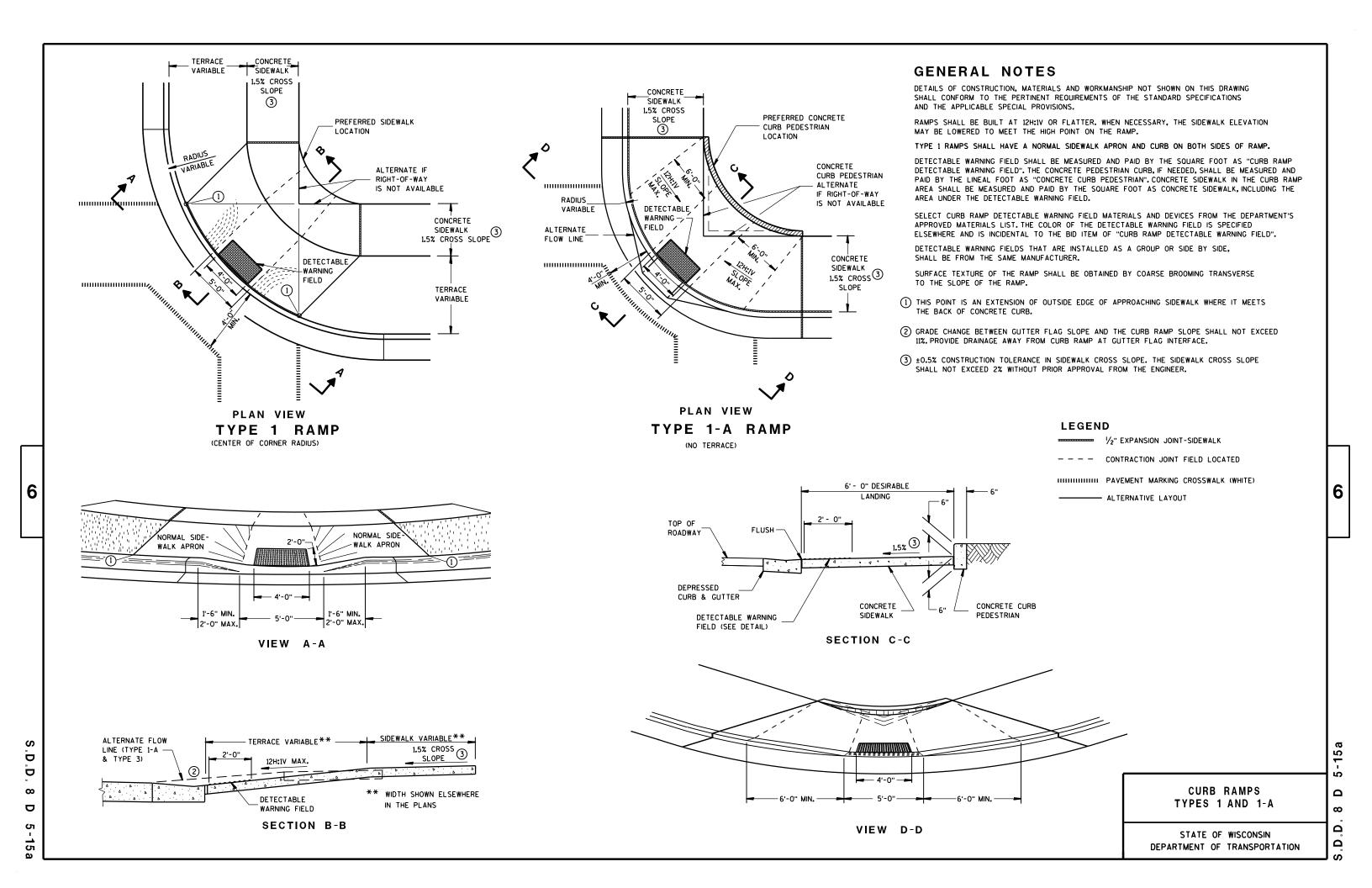
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

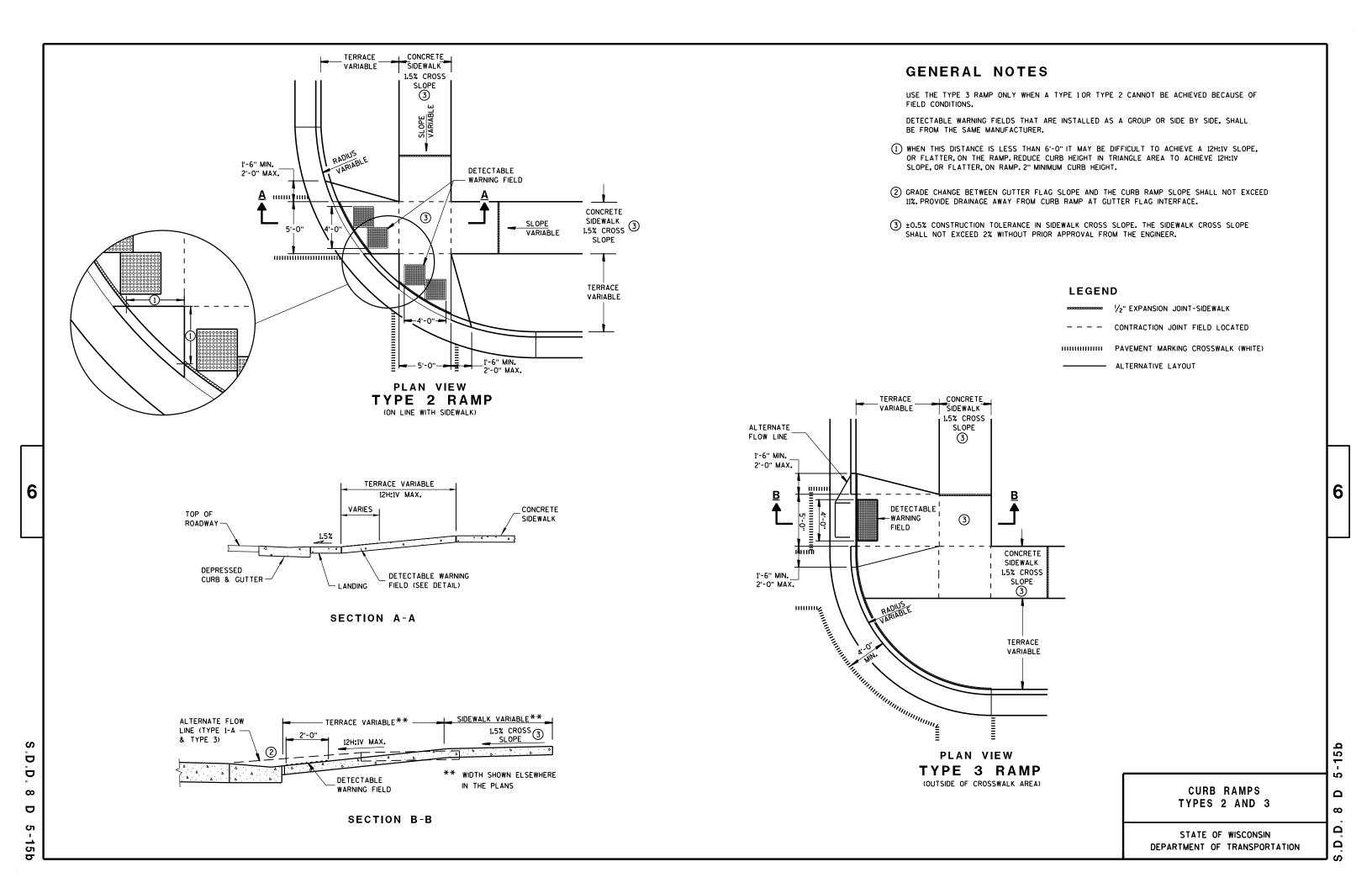
SEPARATE PRECAST REINFORCED

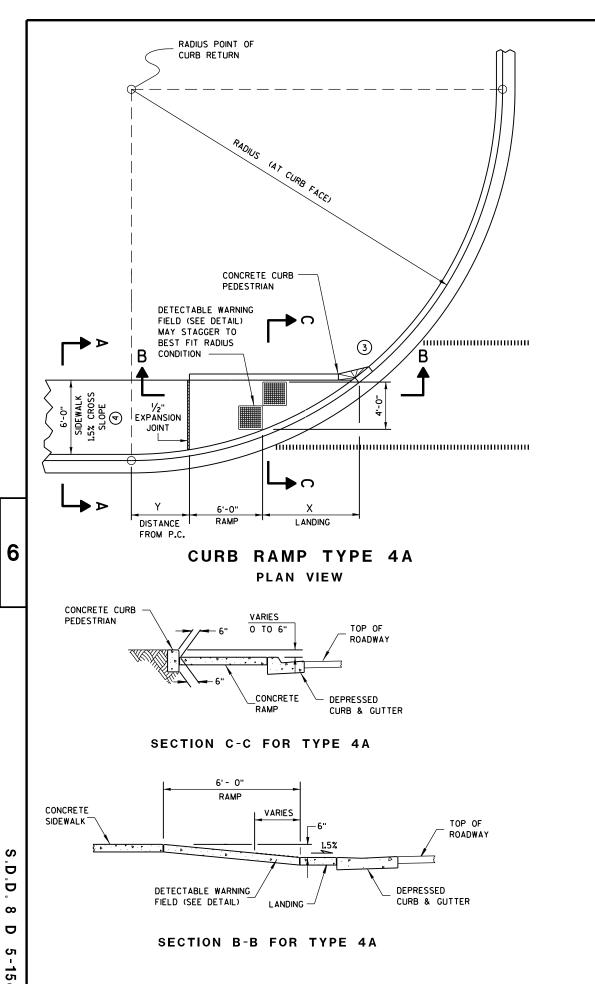
CONCRETE BASE OPTION

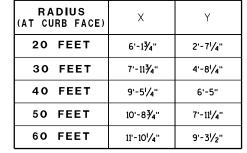












GENERAL NOTES

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

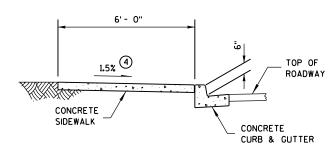
OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

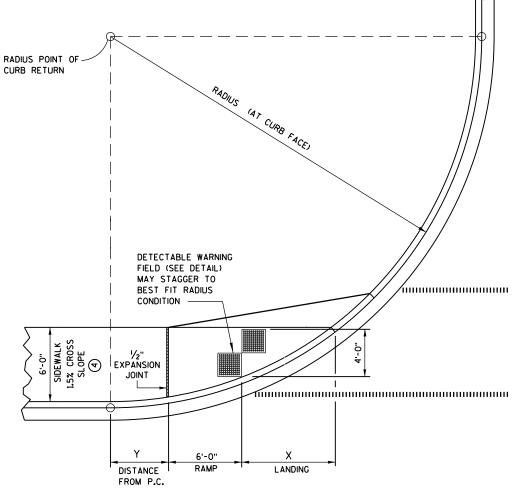
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

SHALL BE FROM THE SAME MANUFACTURER.

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

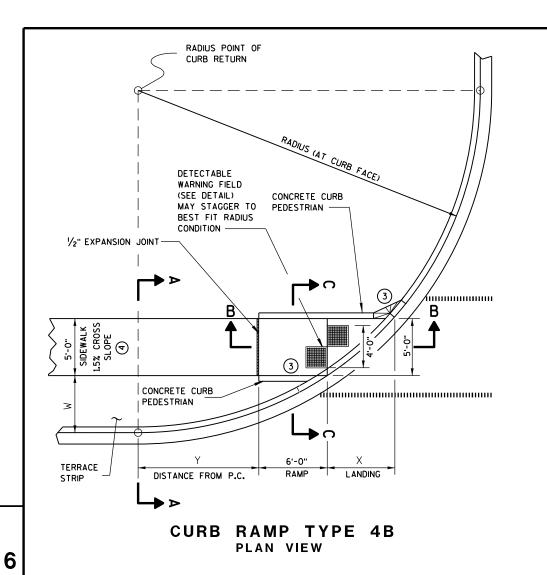


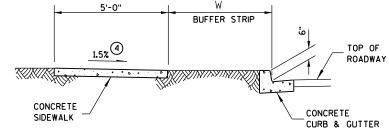
CURB RAMP TYPE 4A1
PLAN VIEW

15c

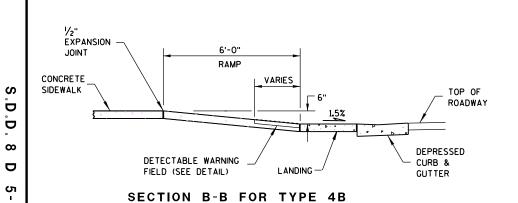
6

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SECTION A-A FOR TYPE 4B



LEGEND

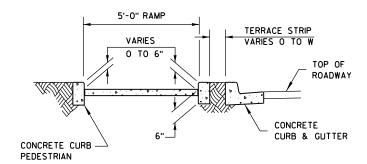
/2" EXPANSION JOINT-SIDEWALK

---- CONTRACTION JOINT FIELD LOCATED

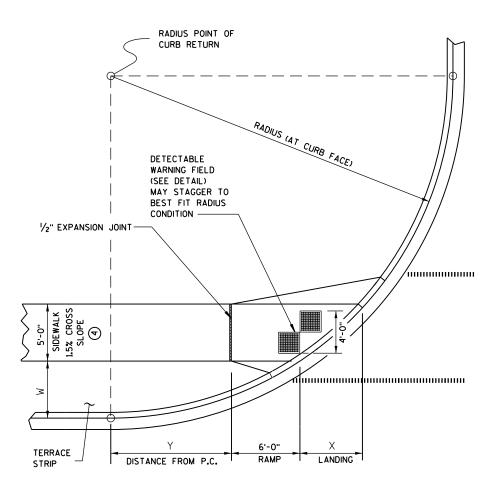
HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

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

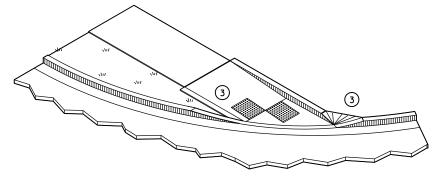
GENERAL NOTES

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

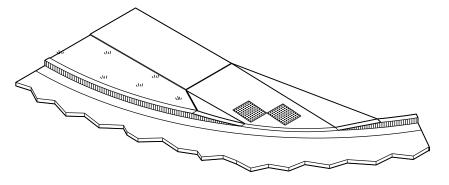
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

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



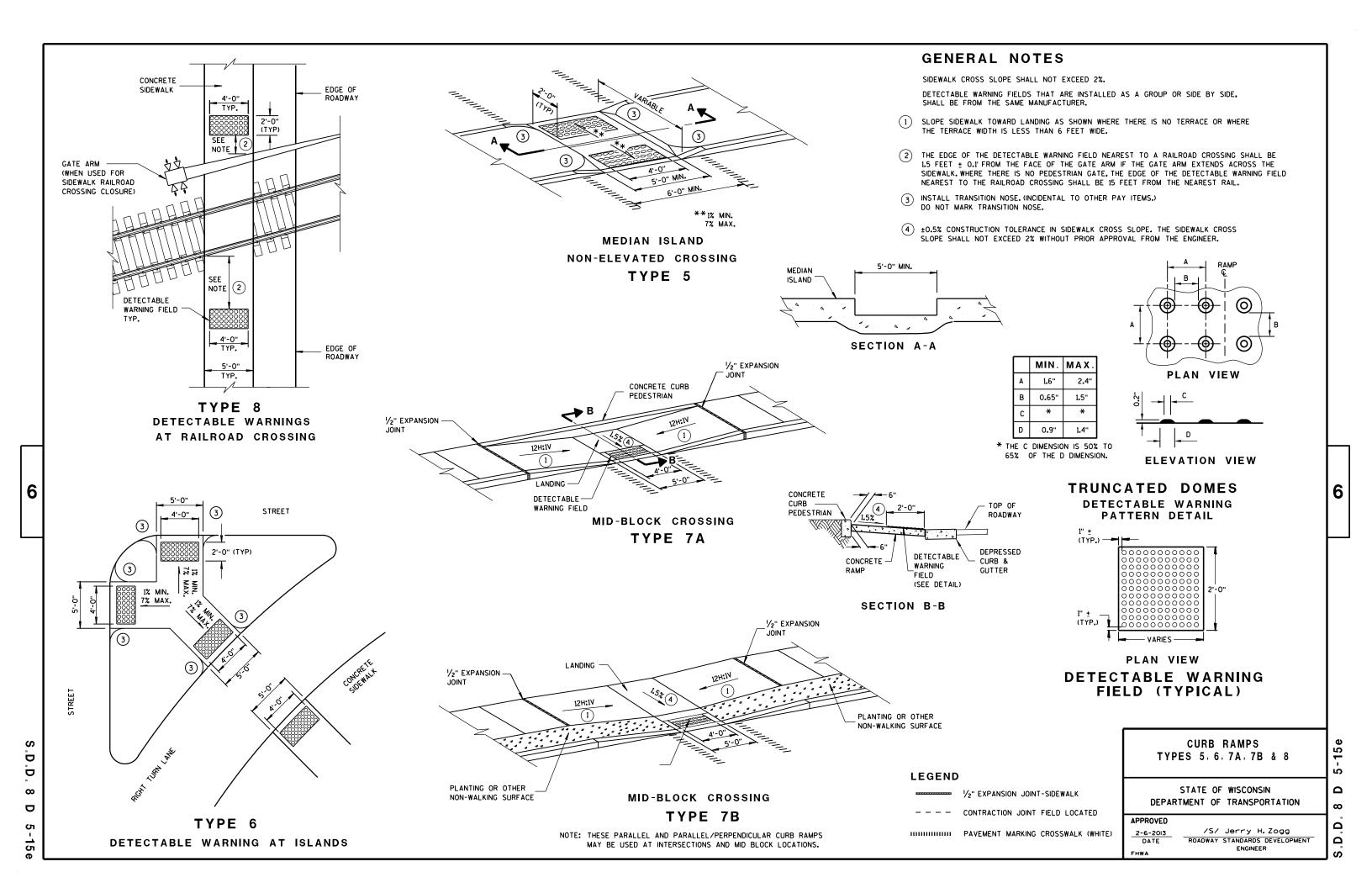
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS Type 4B and 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

D.D. 8 D 5-15d

6



TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- 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

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	METAL APRON ENDWALLS										
PIPE	MIN. 1	THICK.			DIMENS	SIONS (II	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Li	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½+o 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	2½+o 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	. 075	10	13	6	41	18	371/4	48	$2\frac{1}{2}$ to 1	1Pc.
30	.079	. 075	12	16	8	51	18	521/4	60	$2\frac{1}{2}$ to 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	$2\frac{1}{2}$ to 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87	_		114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×		18	45	12	87	_	_	138	1/2+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_		150	11/2+0 1	3 Pc.

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS							
PIPE			DIM	ENSIONS	(Inches)			APPROX.
DIA.	Т	A	В	С	D	E	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	* ** 33 ¹ / ₄ -35	* 98 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

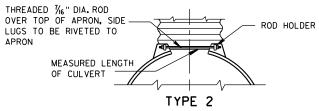
END SECTION CONNECTOR STRAP LUG

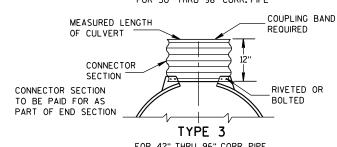
1" WIDE, 12 GA. (0.109"

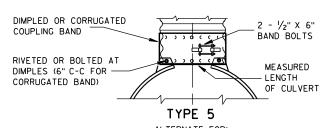
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





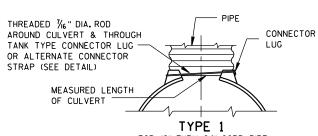


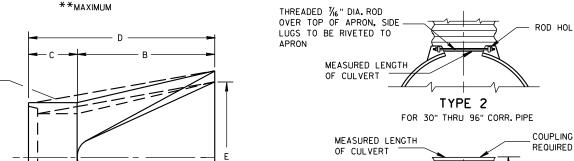
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

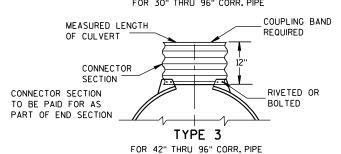
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

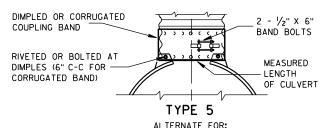
CONNECTION DETAILS 1, 2 OR 5.

ALTERNATE FOR TYPE 1 CONNECTION







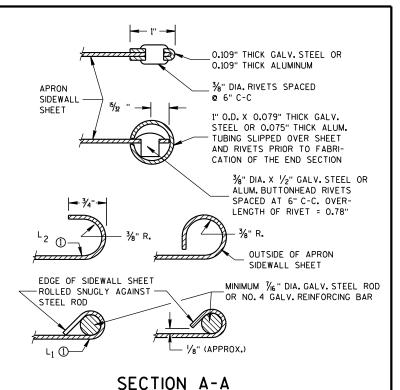


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

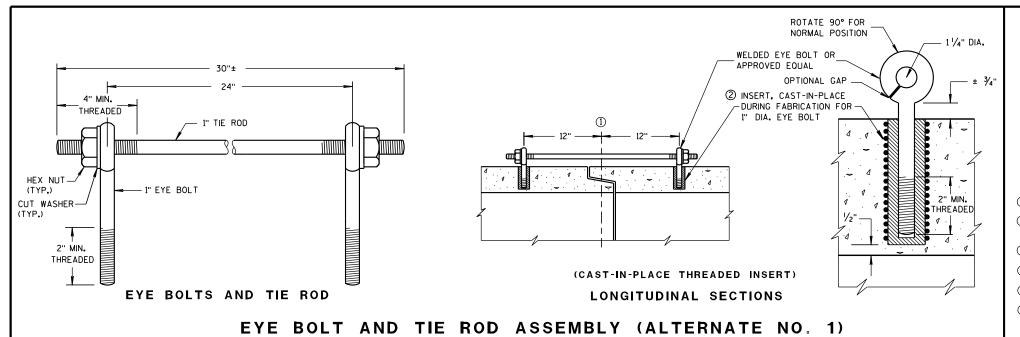
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING



GENERAL NOTES

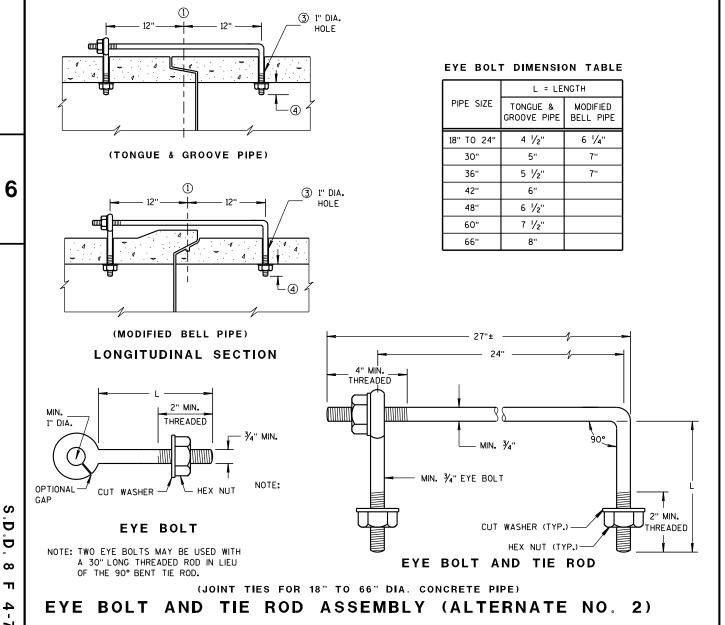
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

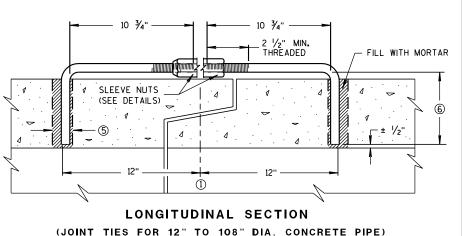
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (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.

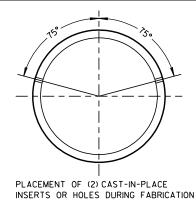


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ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

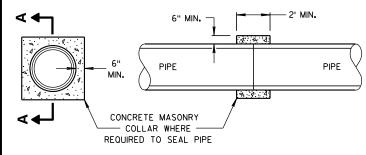


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

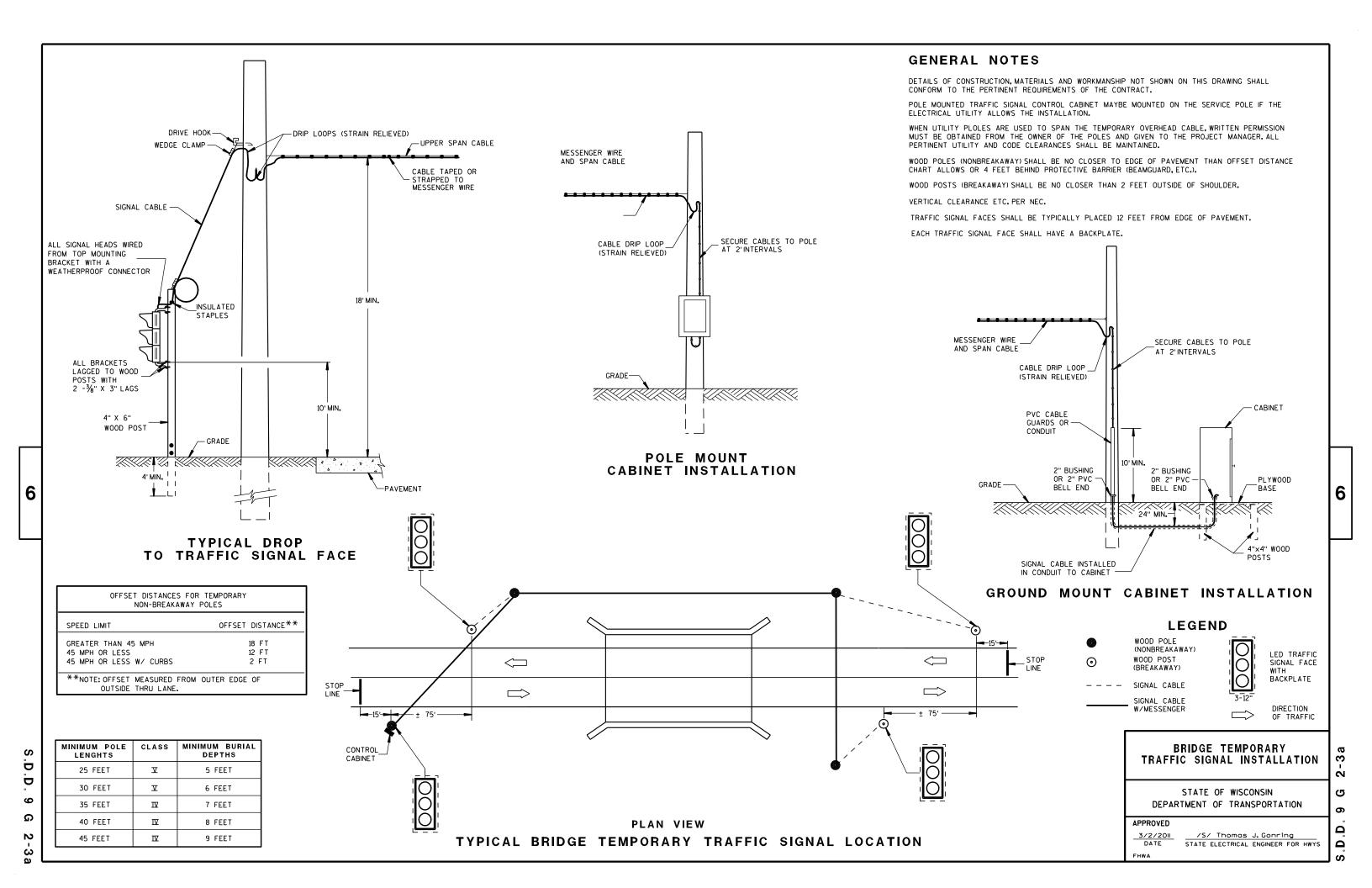
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

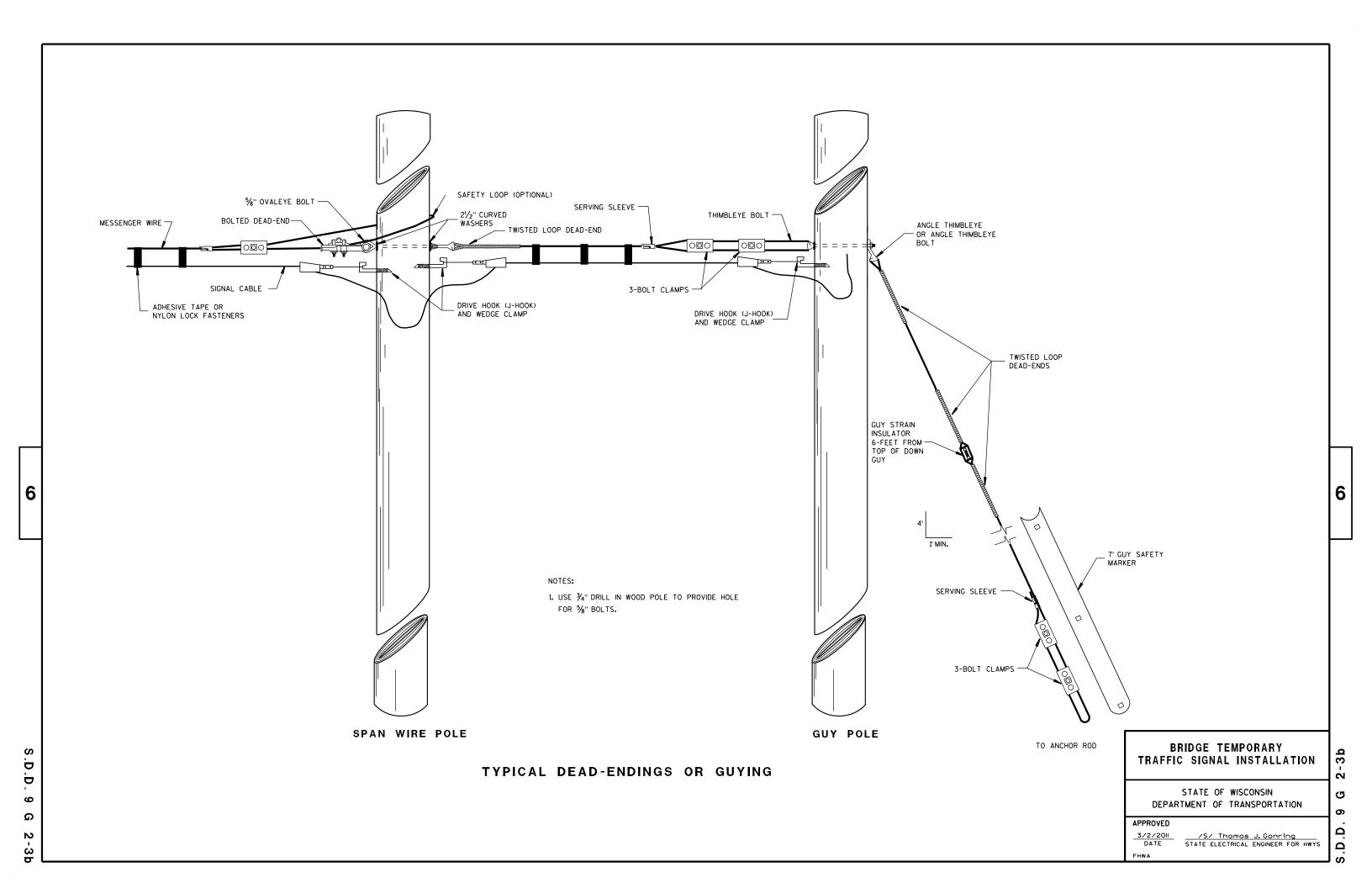
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

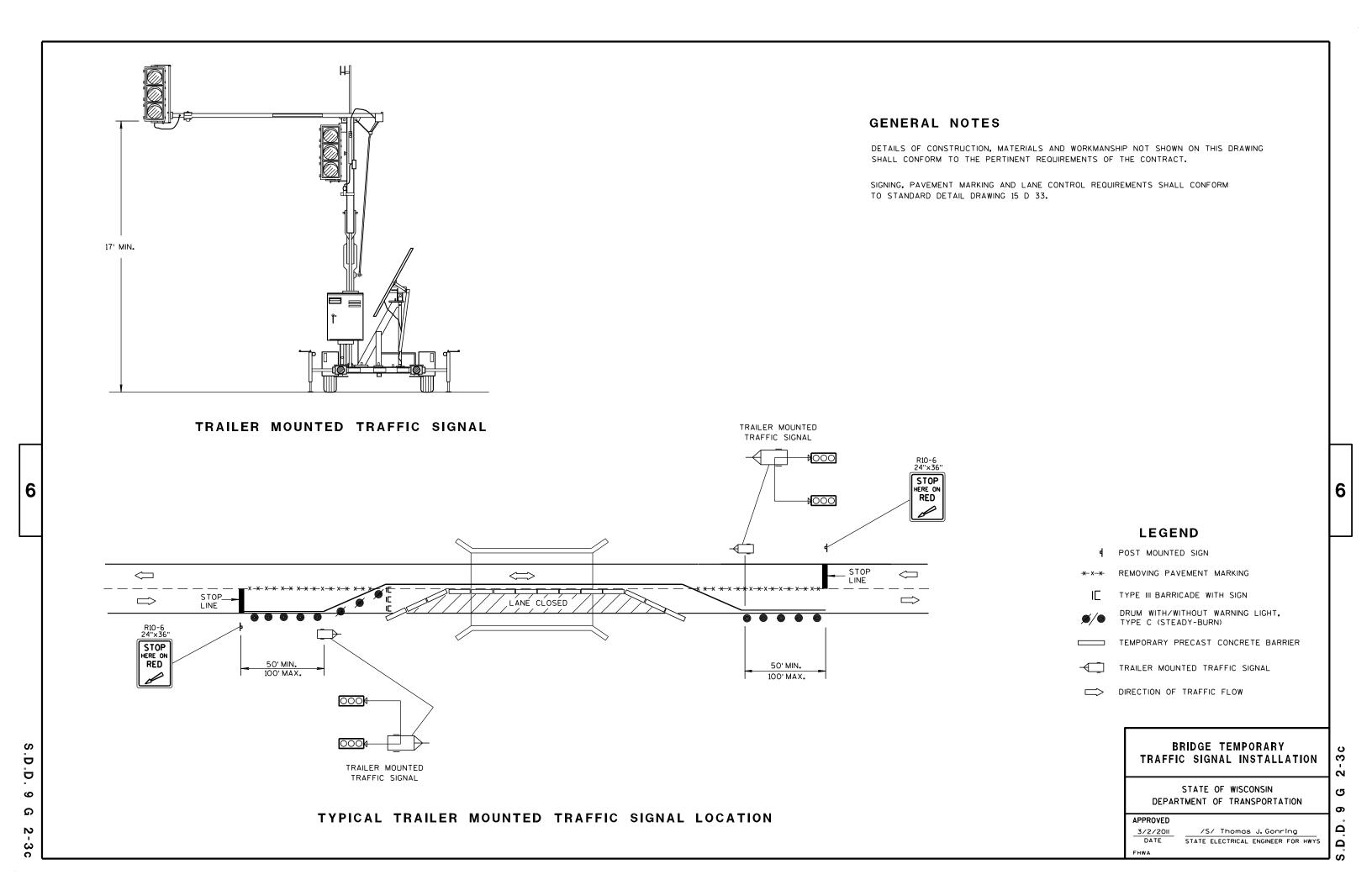
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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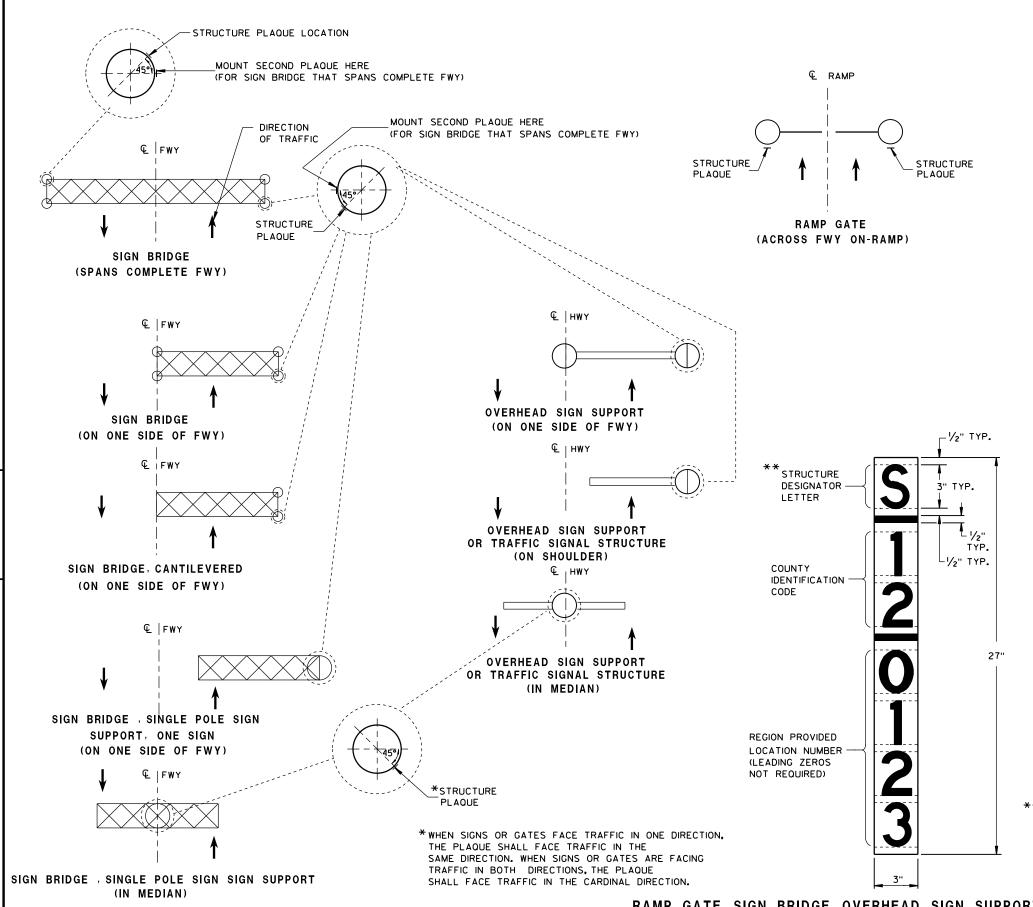








3.D.D. 12 A 4-3



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LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD

SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

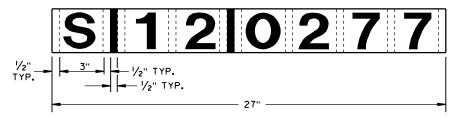
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

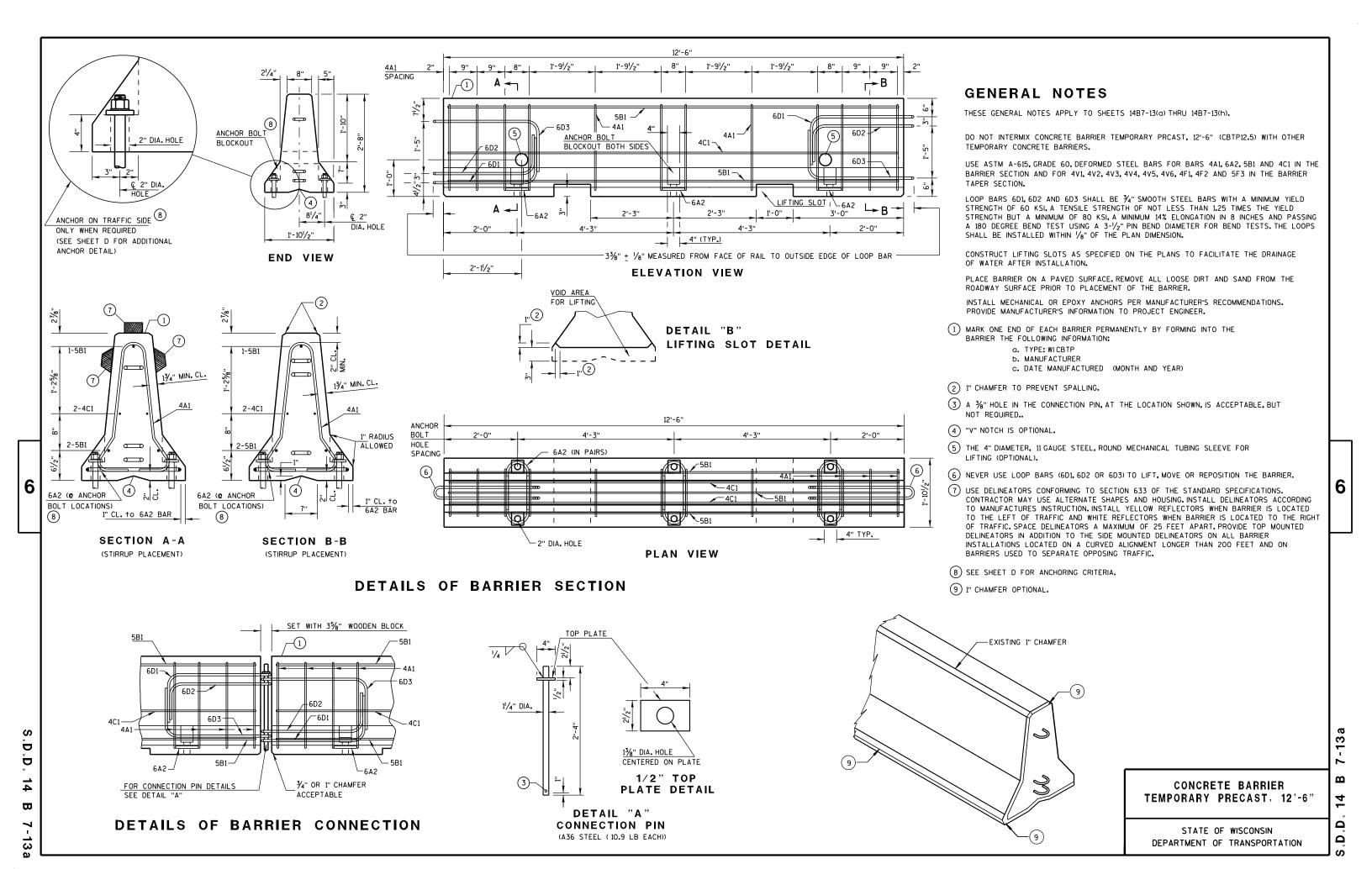
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

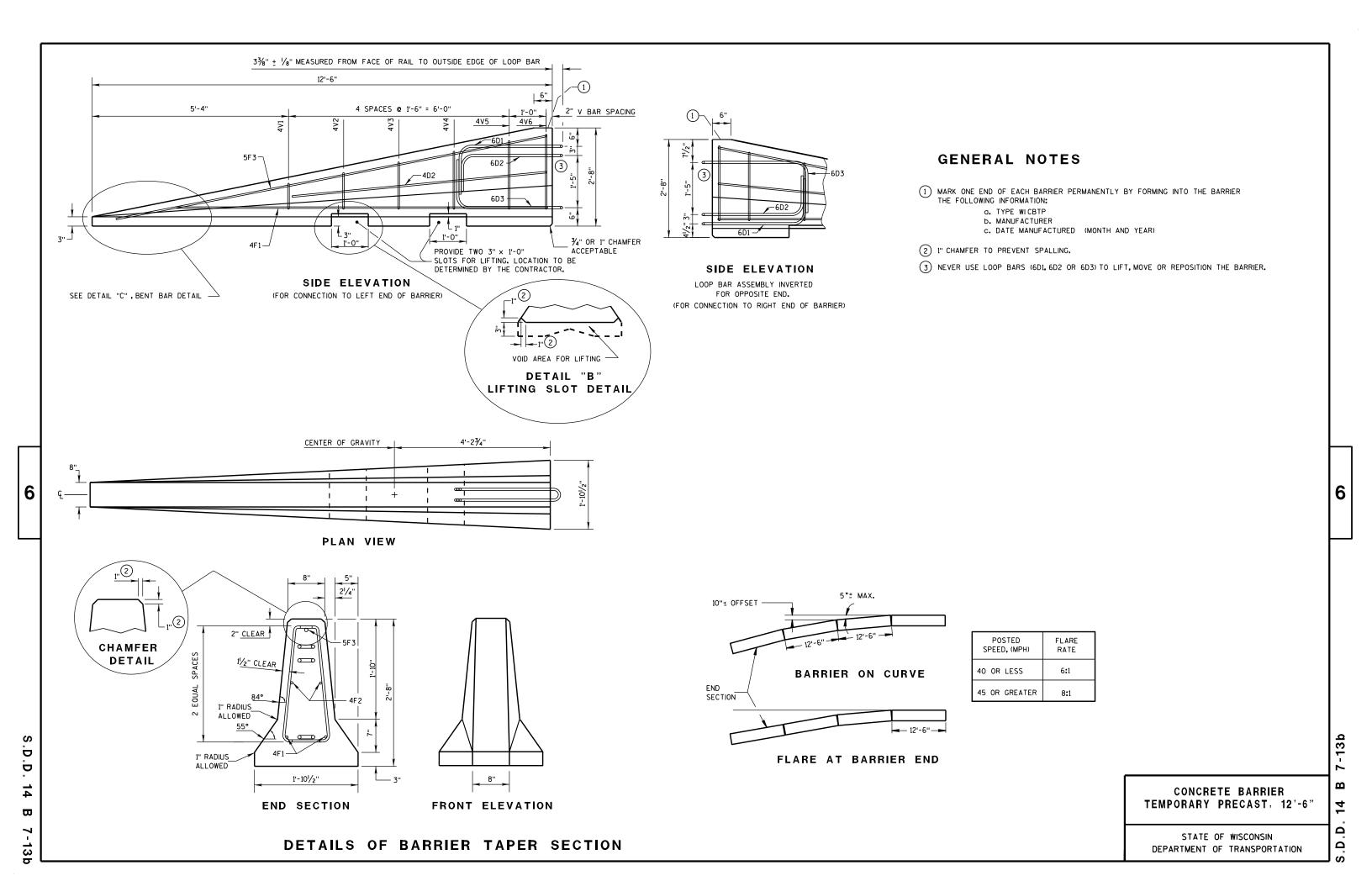
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

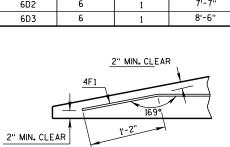
DATE STATE TRAFFIC ENGINEER OF DESIGN

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED



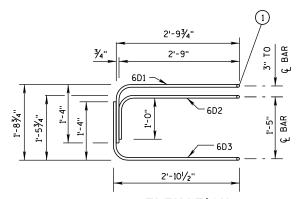


BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4V1	4	2	1'-11"			
4V2	4	2	2'-2"			
4V3	4	2	2'-6"			
4V4	4	2	2'-9"			
4V5	4	2	3'-2"			
4V6	4	2	3'-4"			
4F1	4	2	12'-0"			
4F2	4	2	7'-6"			
5F3	5	1	11'-9''			
L	LOOP ASSEMBLY					
6D1	6	1	8'-5"			
6D2	6	1	7'-7''			
6D3	6	1	8'-6"			

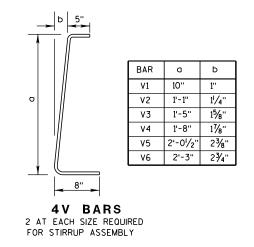


DETAIL "C"

BENT BAR DETAIL





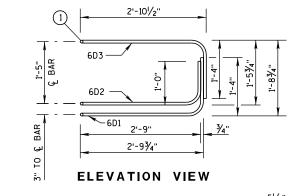


TAPER BARRIER SECTION

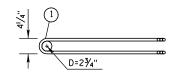
BARRIER SECTION

BILL OF MATERIALS (PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

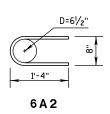


1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

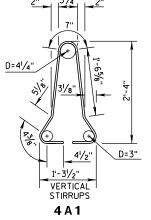


PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)



GENERAL NOTES



BARRIER SECTION

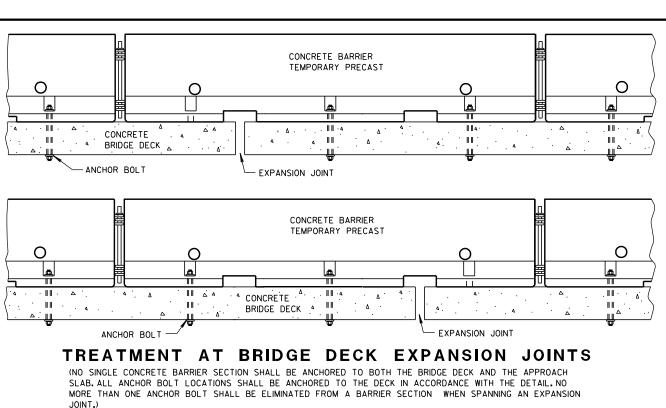
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

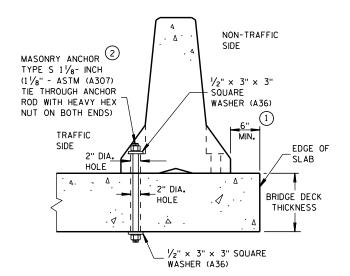
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

CONCRETE BARRIER TEMPORARY PRECAST MASONRY ANCHOR TYPE S 1 1/8- INCH . 🗸 $(1\frac{1}{8}" - ASTM (A307)$ ADHESIVE BONDED ANCHOR NON-TRAFFIC WITH HEAVY HEX NUT SIDE AND 1/2" X 3" X 3" SQUARE WASHER (A36)) TRAFFIC SIDE **EMBEDMENT** ablaBRIDGE DECK, APPROACH SLAB OR CONCRETE PAVEMENT

REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

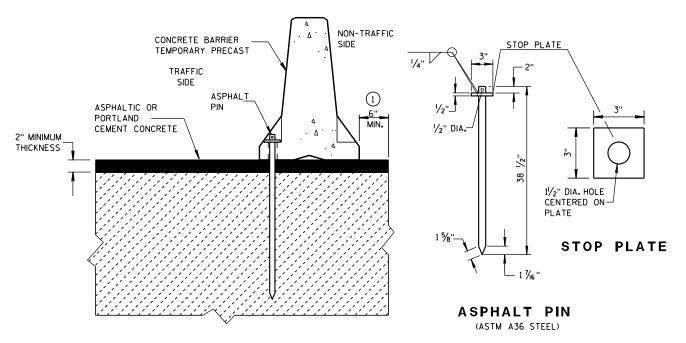
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF: THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

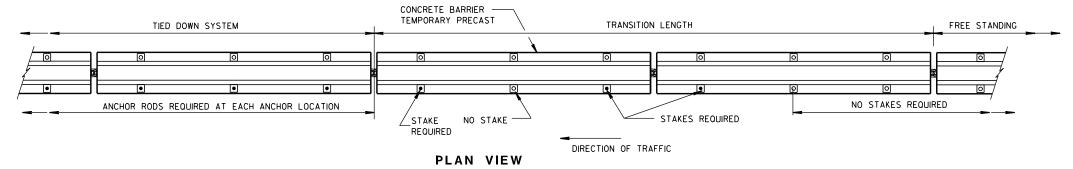
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/a-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CON-CRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

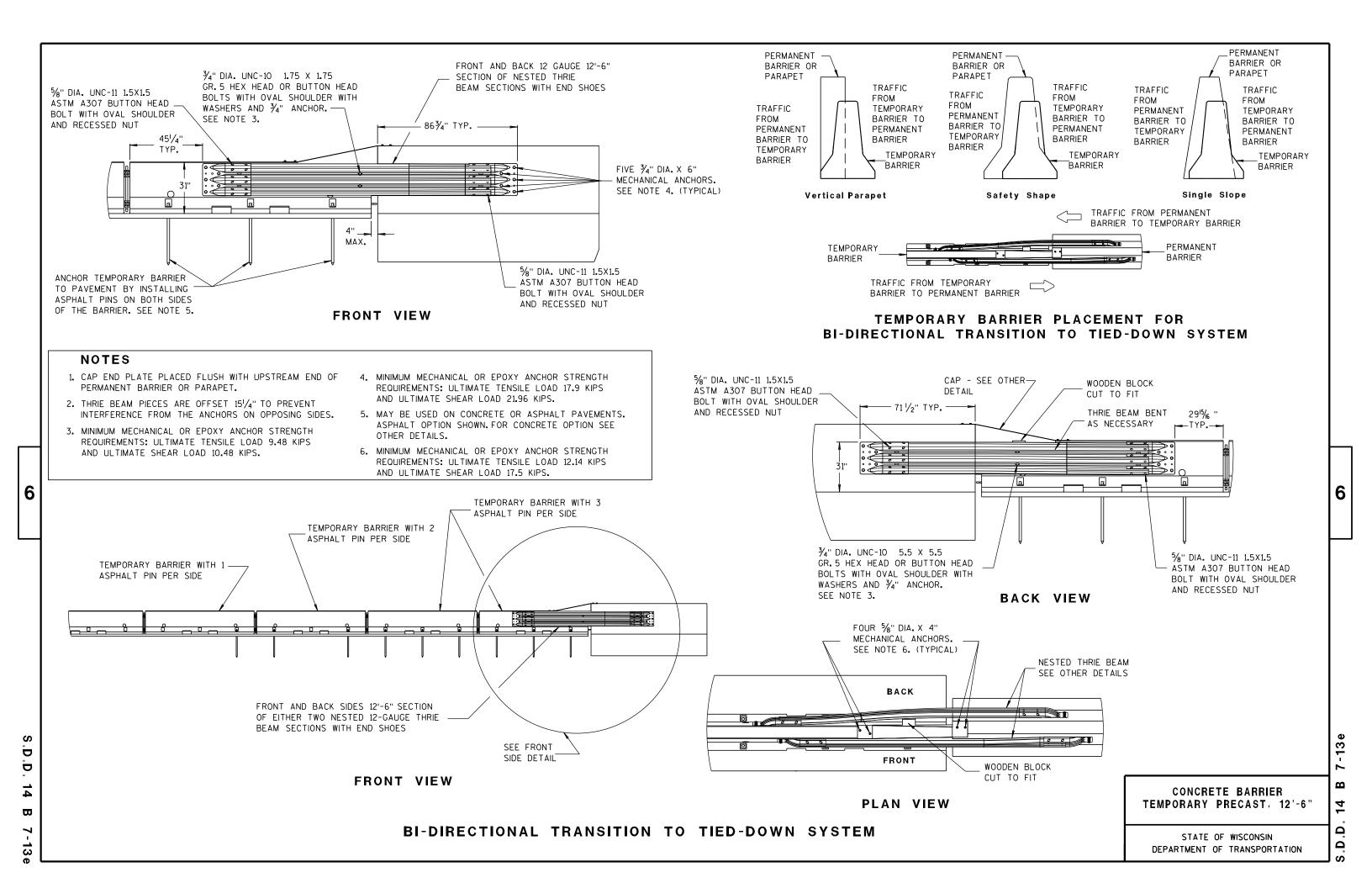
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

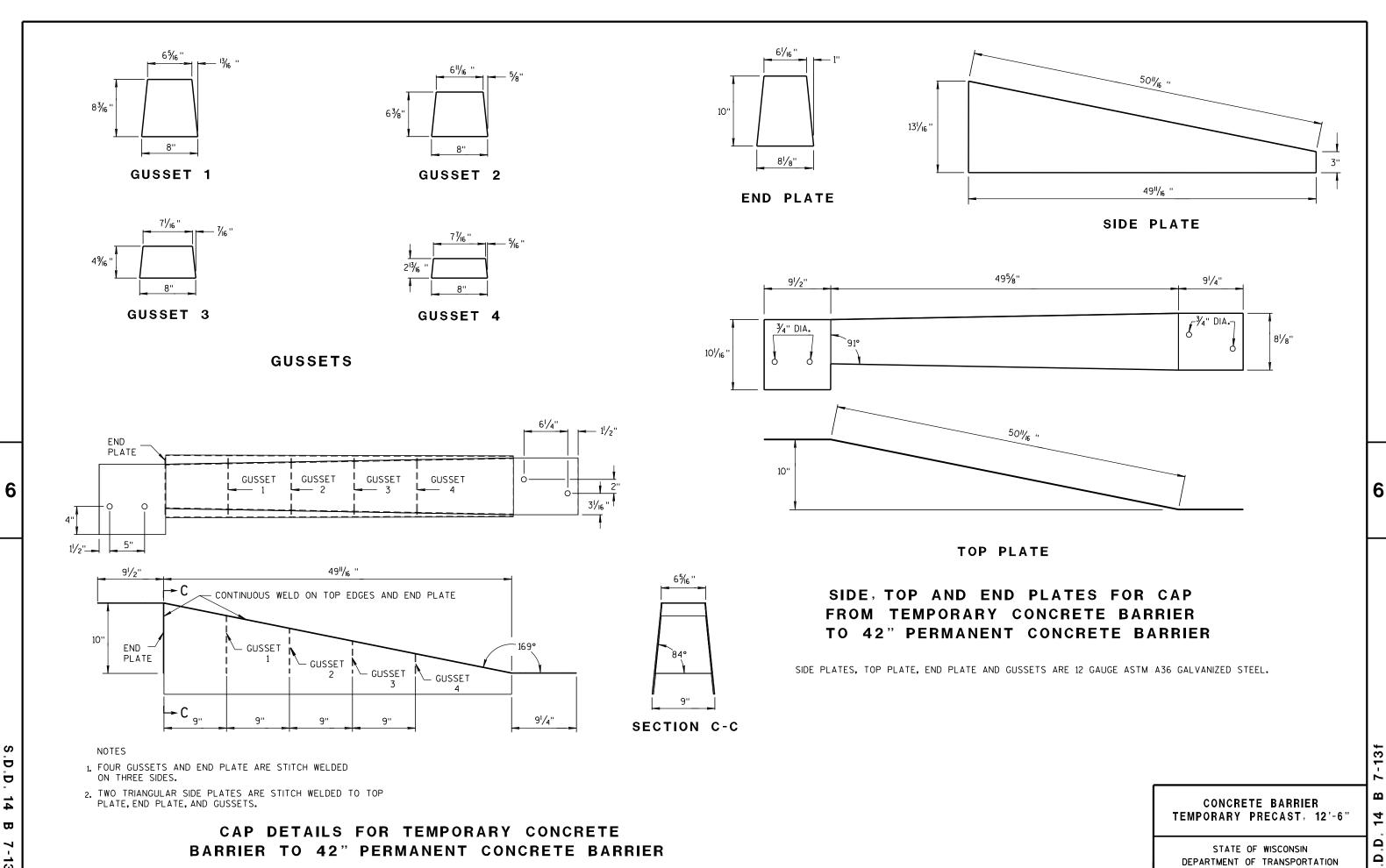
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6'

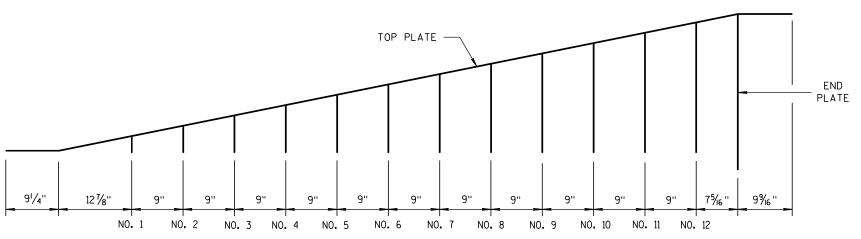
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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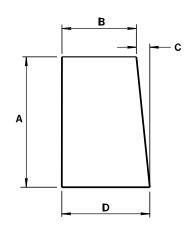






GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

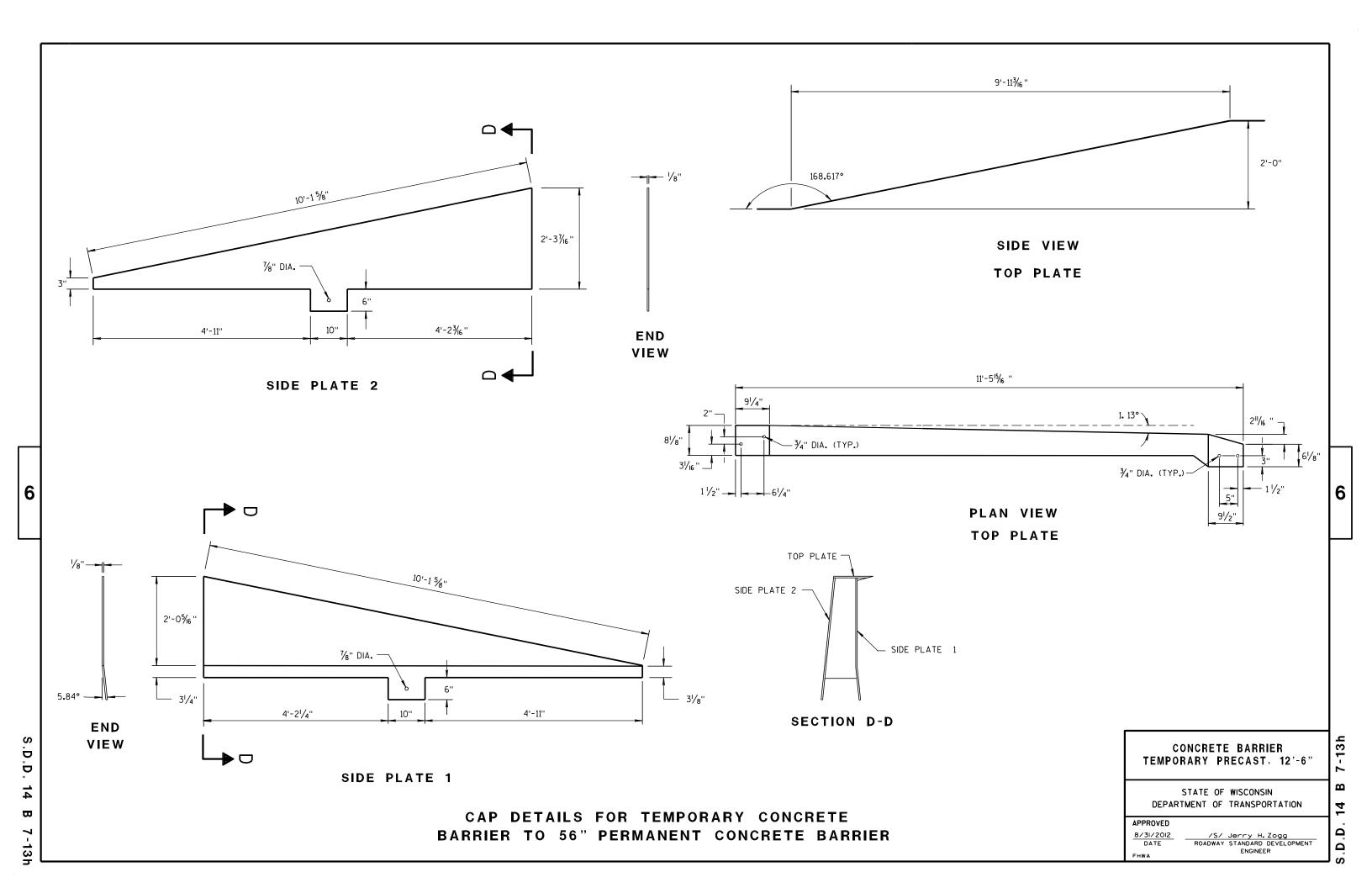
GUSSET DIMENSIONS						
GUSSET NO.	Α	В	С	D		
1	2 1/8"	73/4"	1/4"	8		
2	4"/16 "	7%6"	1/2"	8		
3	61/2"	73/8"	11/16 ''	81/16 "		
4	85/6"	7¾ ₆ "	7/8"	81/16"		
5	101/8"	7''	1 1/16 "	8½ ₆ "		
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16 "		
7	13¾"	65⁄8''	1 7/6"	81/16"		
8	15% "	67∕ ₁₆ ''	1 % "	8½ ₆ "		
9	173/8"	6 ¹ /4"	1 13/16 "	81/16"		
10	193/6"	6½ ₆ "	1 15/16 ''	81/16"		
11	21"	57/8"	23/6"	81/16"		
12	2213/16 "	511/16 "	25/6"	81/16"		

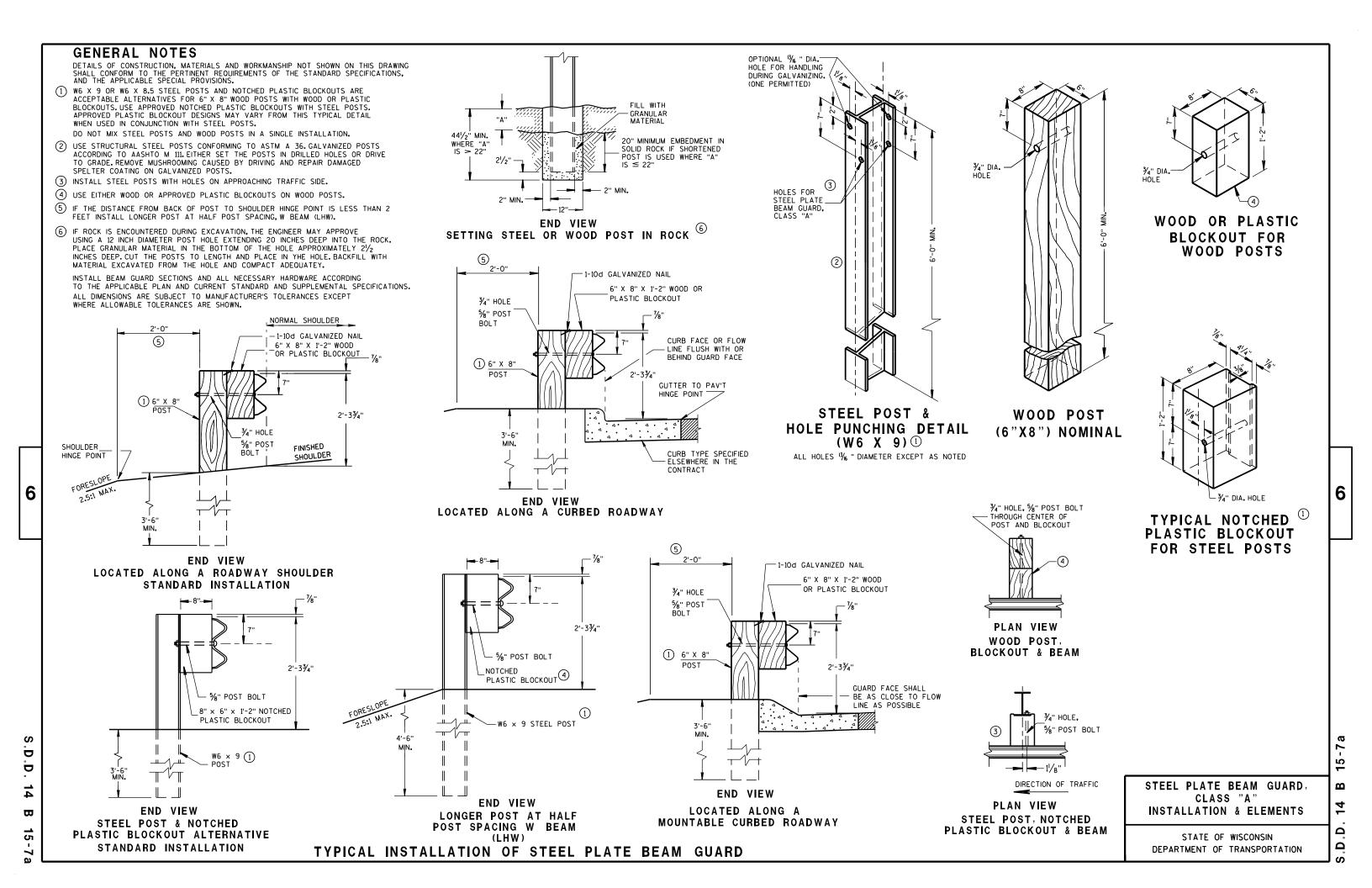
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

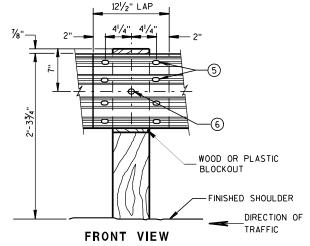




POST SPACING STANDARD INSTALLATION

SYMMETRICAL TABOUT € ∕-12 GAGE

SECTION THRU W BEAM



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

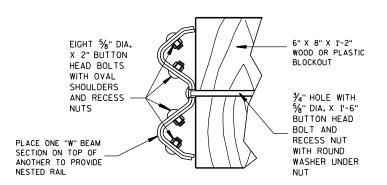
GENERAL NOTES

- 1 PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
- 2 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- 3 REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- 4 PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (5) 8 % " ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 6 $\frac{1}{8}$ " ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.

121/2" LAP $\frac{3}{4}$ " × $2\frac{1}{2}$ " POST BOLT SLOT . Ç POST BOLT SLOT " × 1 1/8" NOTCHED SPLICE BOLT SLOT PLASTIC -BLCKOUT DIRECTION OF TRAFFIC

FRONT VIEW BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

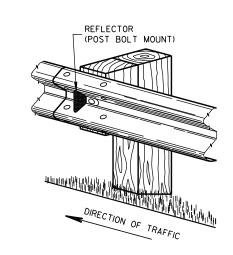
	-	12'-6" OF		-	1
		EFFECTIVE LEN	NGTH OF BEAM		
	3'-1 ¹ / ₂ " C-C	3'-1 ^l / ₂ " C-C	3'-1 ¹ / ₂ " C-C	3'-1 <mark>/</mark> 2" C-C	
İ	POST SPACING	POST SPACING	POST SPACING	POST SPACING	
			•	•	
	-	+ +			2'-3¾''
				NICATION DIDECTION	
	FINIS SHOL	HED/ JLDER		DIRECTION TRAFFIC	N OF
				marrie	

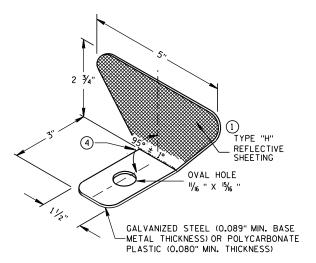
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

REFLECTOR SPACING

			0	
	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY	< 200'	50' C-C	1	3
TRAFFIC	> 200'	100, C-C	1	
TWO WAY	< 200'	25' C-C	1(3)	6
TRAFFIC	> 200'	50' C-C	1 🔍	
TWO WAY	< 200'	50' C-C	2(4)	3
TRAFFIC	> 200'	100' C-C	2 4	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

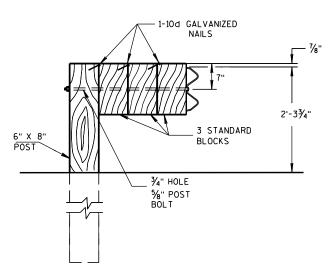
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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- 1-10d GALVANIZED NAILS



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

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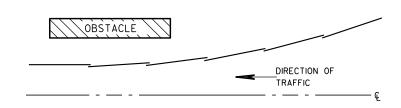
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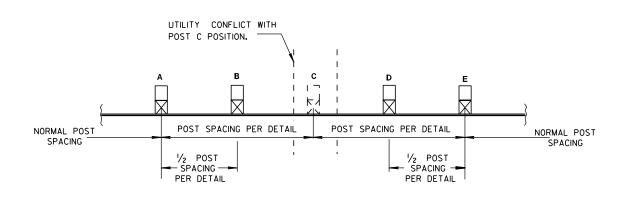
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DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

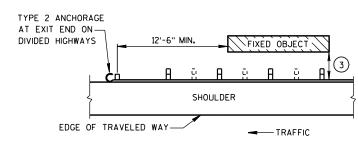
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5/23/II
DATE
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14

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BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES **EXIT END - ONE WAY TRAFFIC**

GENERAL NOTES

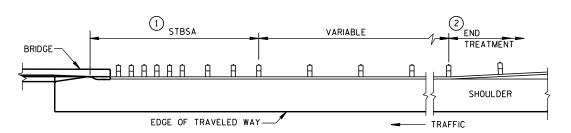
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

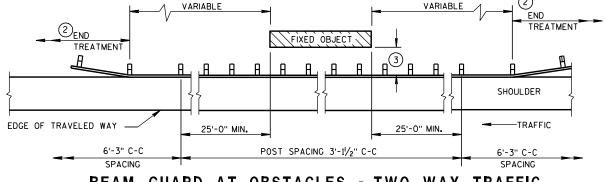
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"



BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")

END TP 1 STBSA VARIABLE TREATMENT BEGIN FLARE END FLARE → EDGE OF FINISHED SHOULDER BRIDGE->SHOULDER **─** TRAFFIC EDGE OF TRAVELED WAY -FLARE RATE PER TABLE 1 AT RIGHT (FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES)

BEAM GUARD AT NARROW BRIDGES (FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1 FLARE RATES FOR BEAM **GUARD AT NARROW BRIDGES**

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A' AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWΔ	ENGINEER

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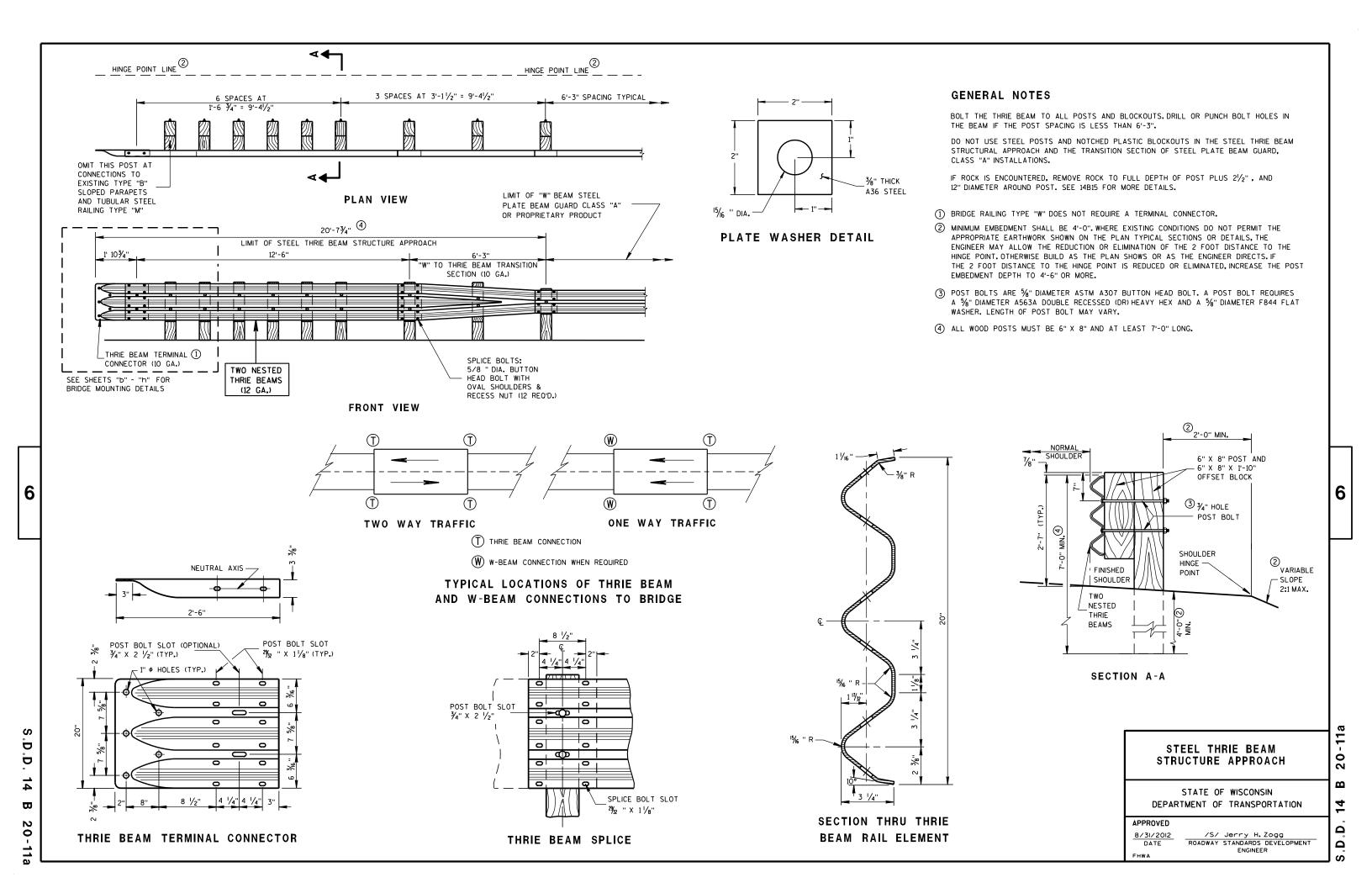
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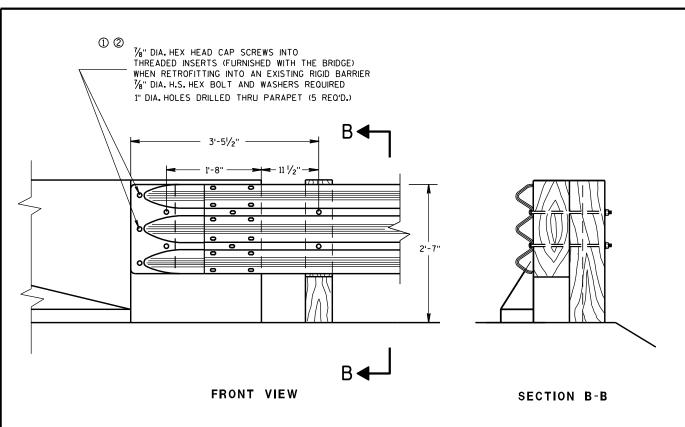
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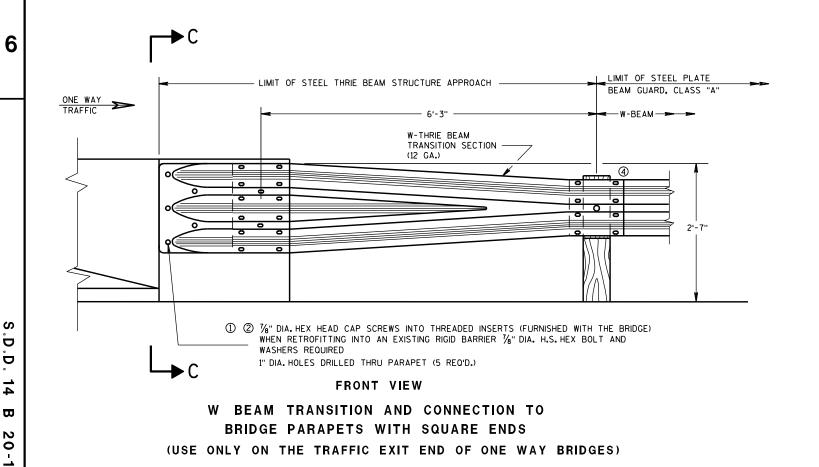
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THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



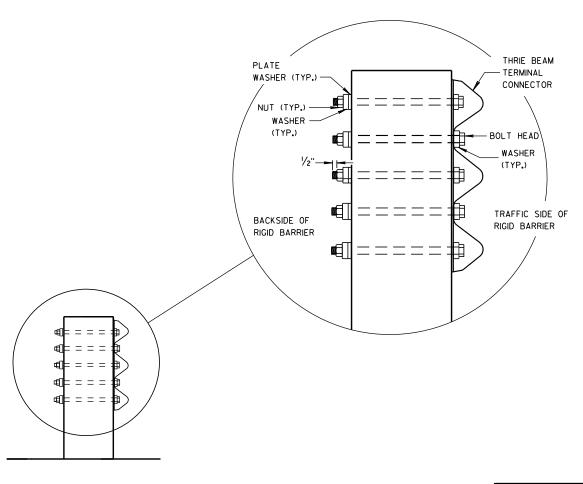
GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

- ① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- ② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X $\frac{5}{8}$ " THICK AND ONE PLATE WASHER REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- 3 THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 $\frac{1}{2}$ ".
- 4 W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.



SECTION C-C

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 ROADWAY STANDARDS DEVELOPMENT ENGINEER

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BOLTS. NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

- ① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- ② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH, ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

THRIE BEAM TERMINAL

CONNECTOR

BOLT HEAD

(TYP.)

WASHER

TRAFFIC SIDE OF

1 2 78" DIA. HEX HEAD CAP SCREWS INTO

Δ"

1'-6"

RIGID BARRIER

- 3 THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (4) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.
- (5) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

> PLATE WASHER (TYP.

> > NUT (TYP.)

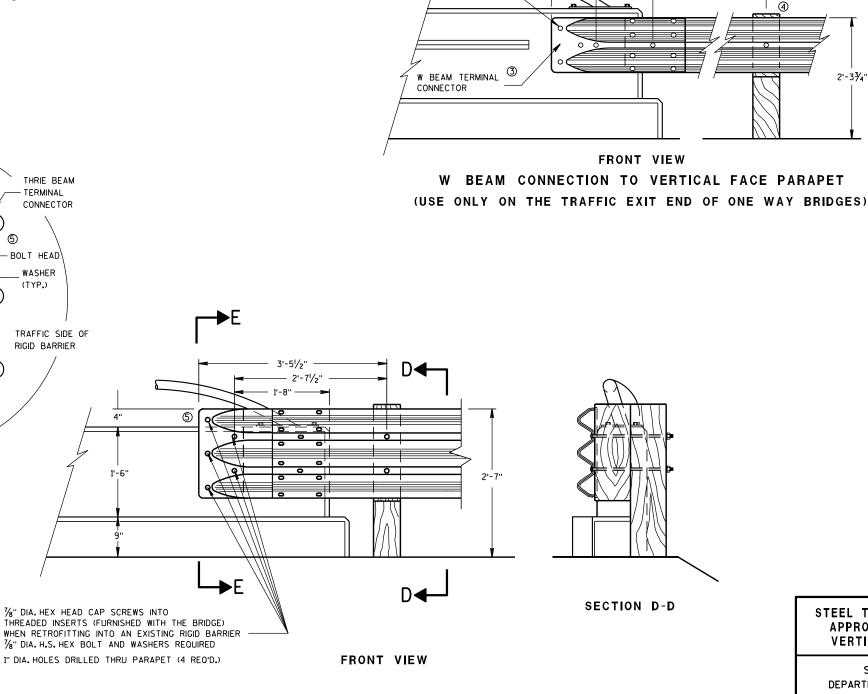
(TYP.)

BACKSIDE OF

RIGID BARRIER

WASHER

1/2".



① ② 7/8" DIA. HEX HEAD CAP SCREWS INTO

(4 REO'D.)

1" DIA. HOLES DRILLED THRU PARAPET

THREADED INSERTS (FURNISHED WITH THE BRIDGE)

1/8" DIA. H.S. HEX BOLT AND WASHERS REQUIRED

WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO VERTICAL FACED PARAPETS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/31/2012 /S/ Jerry H. Zogg

LIMIT OF STEEL PLATE

BEAM GUARD, CLASS "A"

ONE WAY
TRAFFIC

2'-33/4"

5'-0 1/4" —

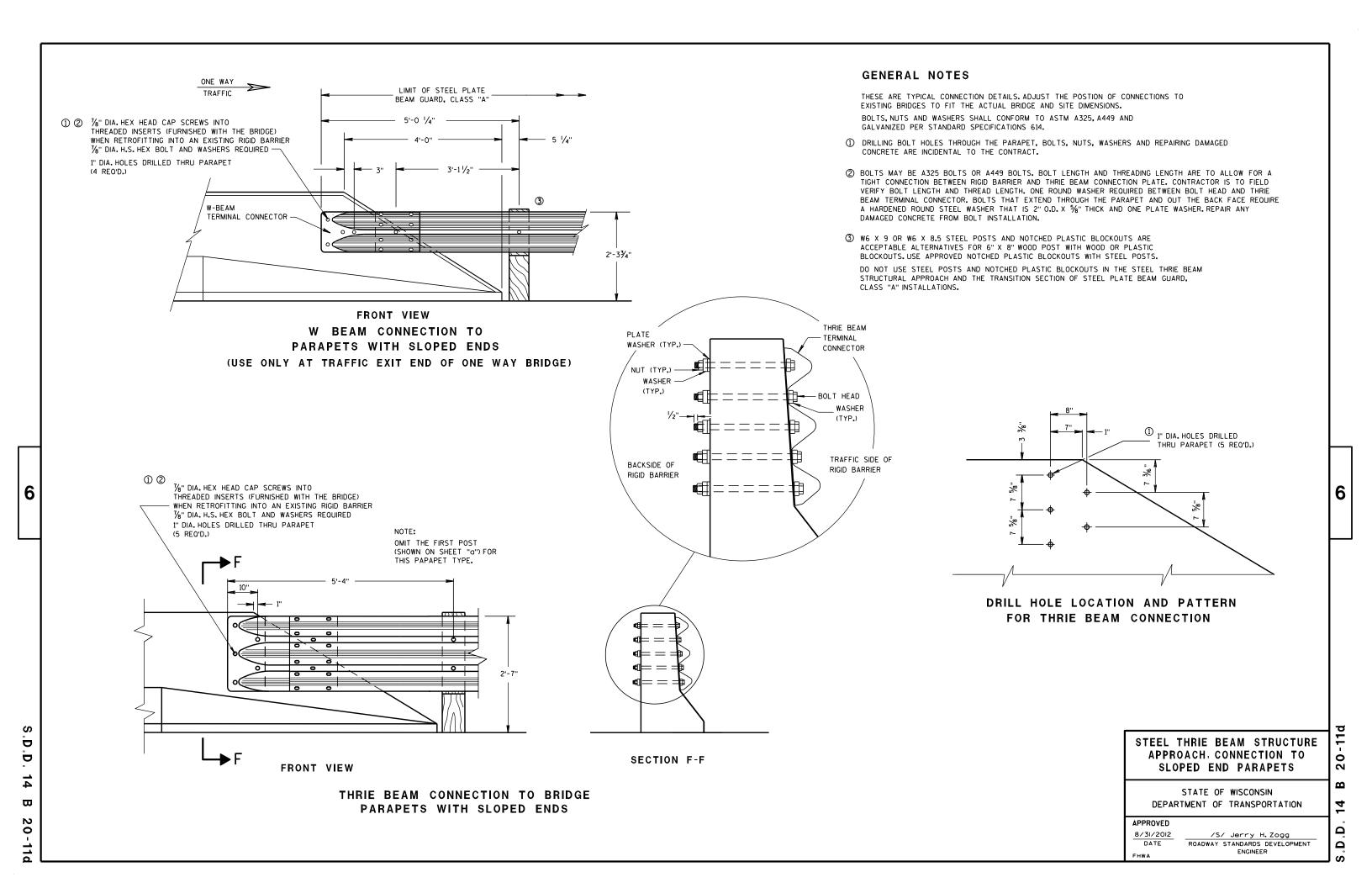
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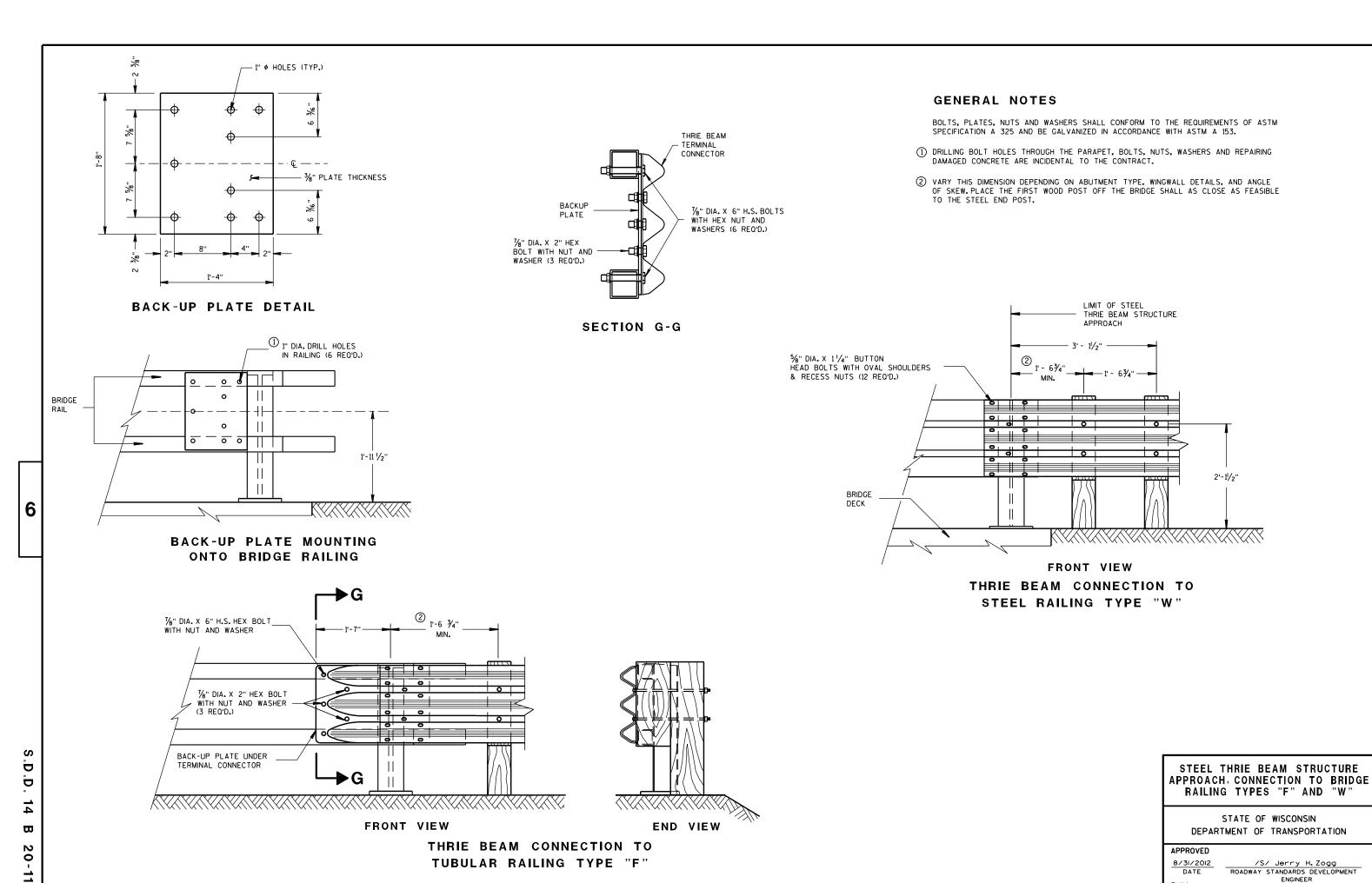
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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SECTION E-E

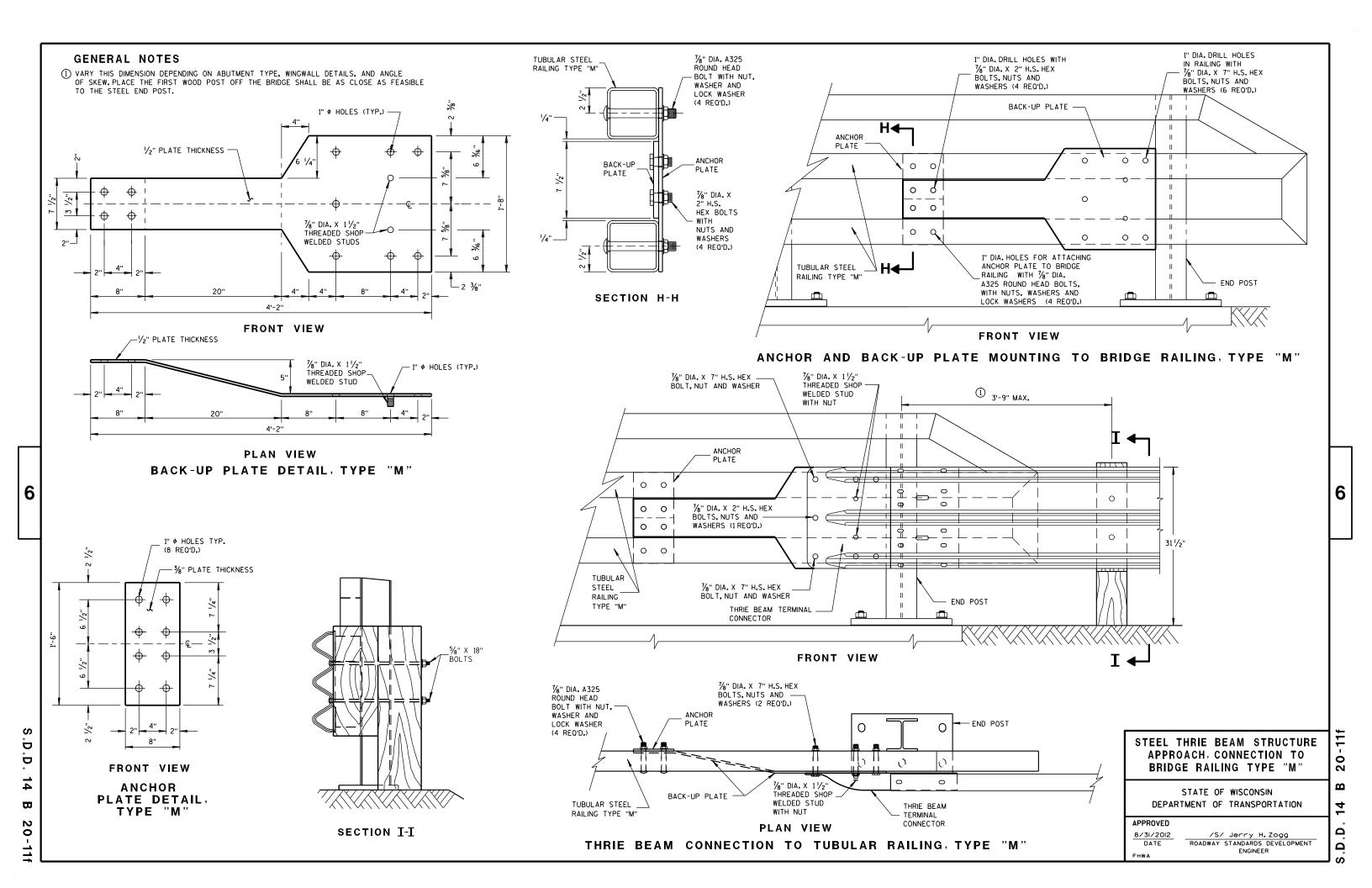
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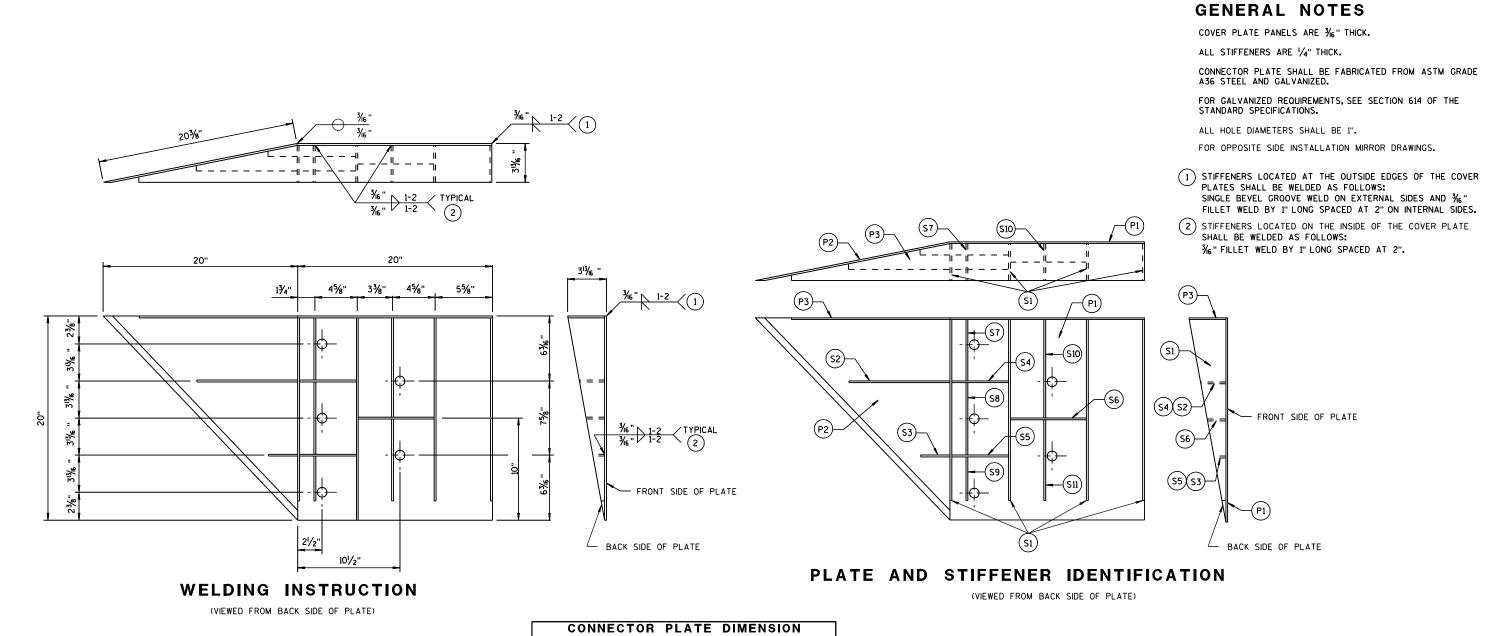




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ENGINEER





CONNECTOR PLATE DIMENSION (PER ASSEMBLY)				
PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1	в₫	20" × 20"	3/6 "
P2	1	B₽Ĉ	20" × 20" × 28 % 6"	3/6 "
Р3	1	B _ CD	39" × 35/8" × 20" × 195/6"	3∕16 "
S1	4	BA	18 1/16 " × 3 5/8" × 18 3/4"	1/4"
S2	1	B C D	10 ¹ / ₄ " × 2 ¹ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"
S3	1	B₽D	3" × 1½6" × 3½" × ½"	1/4"
S4	1	вЁ	61/8" × 21/6"	1/4"
S5	1	вД	61/8" × 11/16"	1/4"
S6	1	в≜	7¾" × 1¾"	1/4"
S7	1	₽	2%6" × 6" × 3%" × 5%"	1/4"
S8	1	A DC	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C B	61/16" × 63/16" × 13/32"	1/4"
S10	1	₩	11/8" × 91/8" × 35/8" × 911/16 "	1/4"
S11	1	C A	8½" × 8¾" × 1⅓6 "	1/4"

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STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL 6

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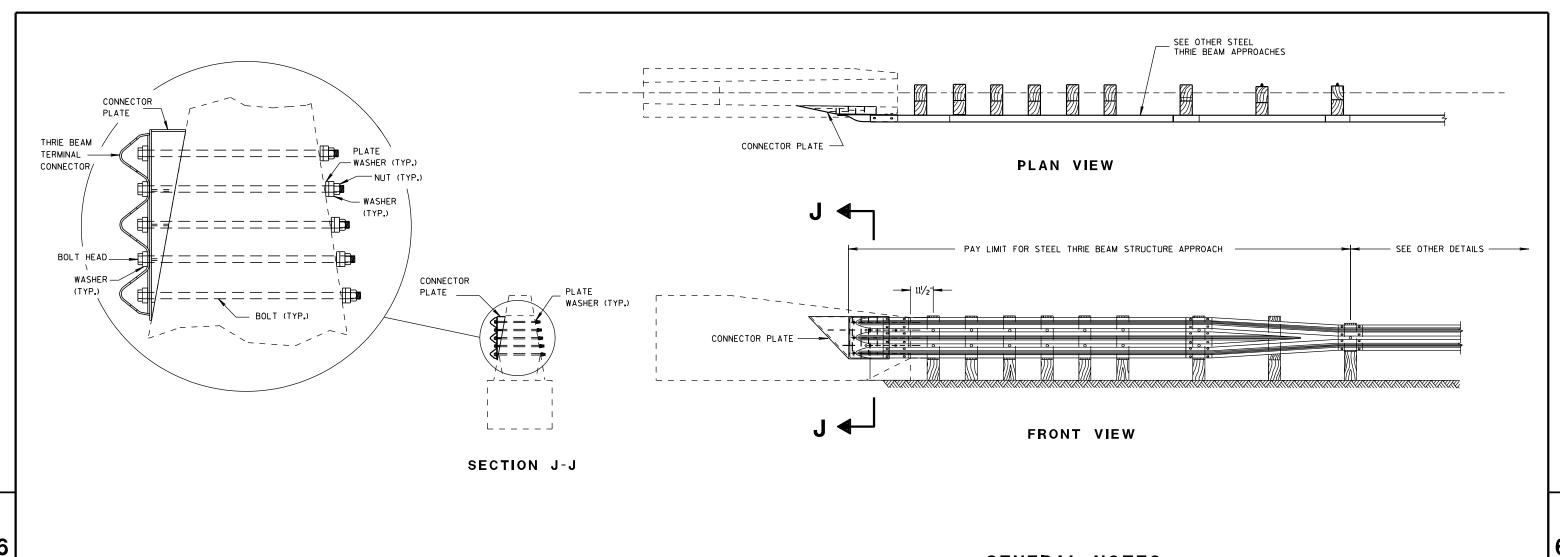
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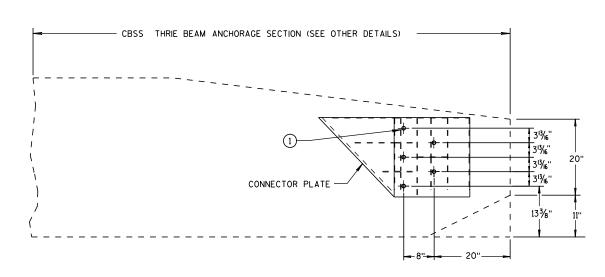
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/31/2012

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER





GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 614.

CONNECTOR PLATE, DRILLING HOLES THROUGH PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

1 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

CONNECTOR PLATE LOCATION

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, SINGLE SLOPE ATTACHMENT

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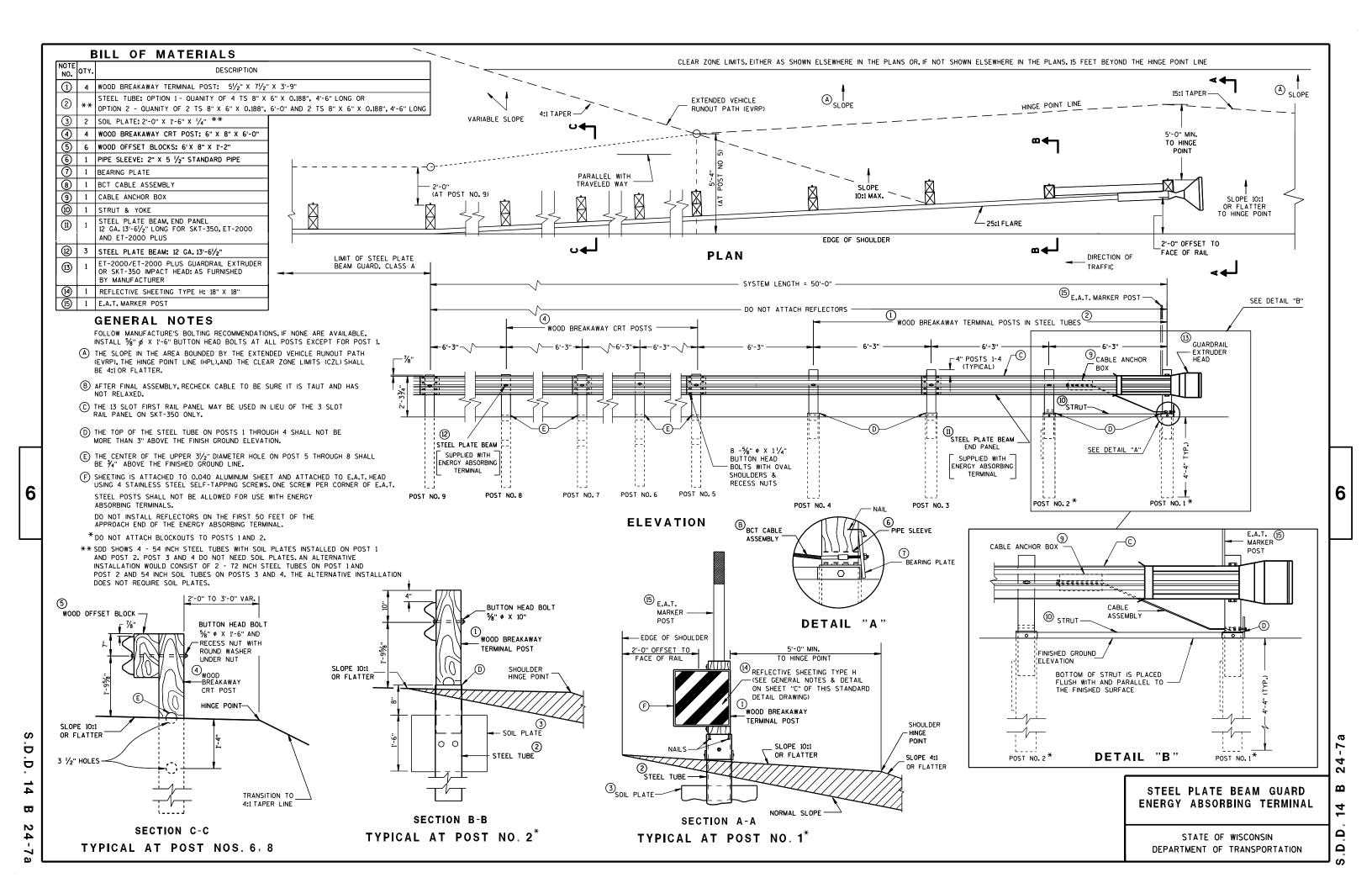
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 /S/ Jerry H. Zogg

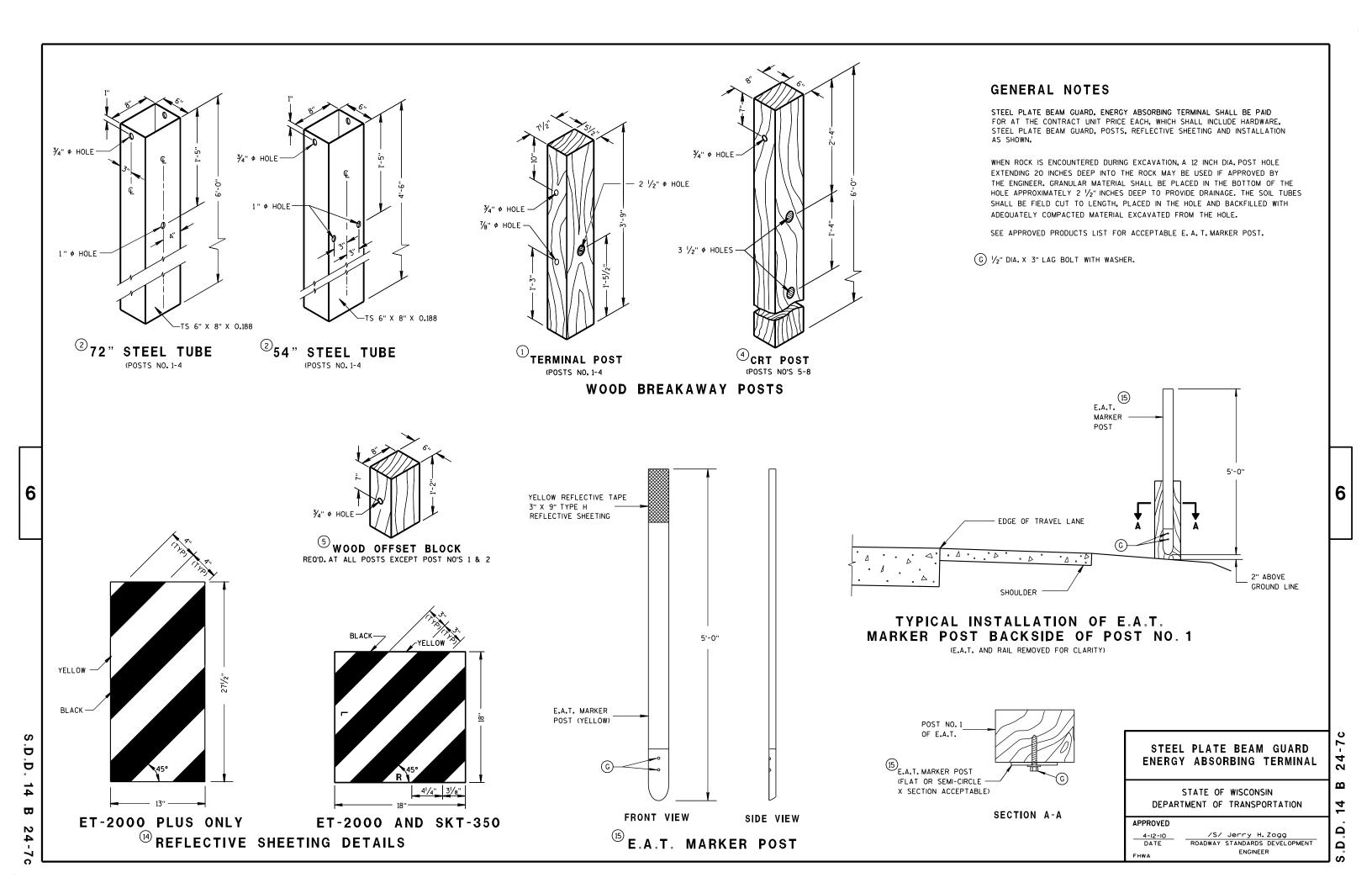
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D.D. 14 B 20-11h



STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

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GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2. UNLESS NOTED OTHERWISE.

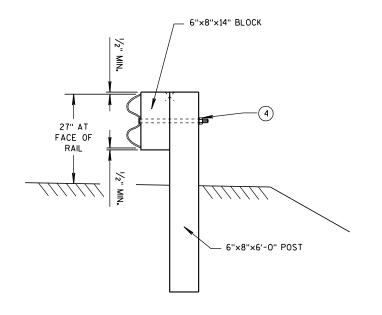
SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

- (1) ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.
- 2) RADIUS FROM 8' 36'. SEE PLAN.
- 3 HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.
- (4) %" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	* NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH × WIDTH)
8'	5	1 at 12.5'	25' × 15'
16'	7	1 a† 25'	30' × 15'
24'	9	1 at 25' and 1 at 12 . 5'	40' × 20'
32'	11	2 at 25'	50' × 20'

* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



SECTION B-B (BEAM GUARD POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

DEPARTMENT OF TRANSPORTATION

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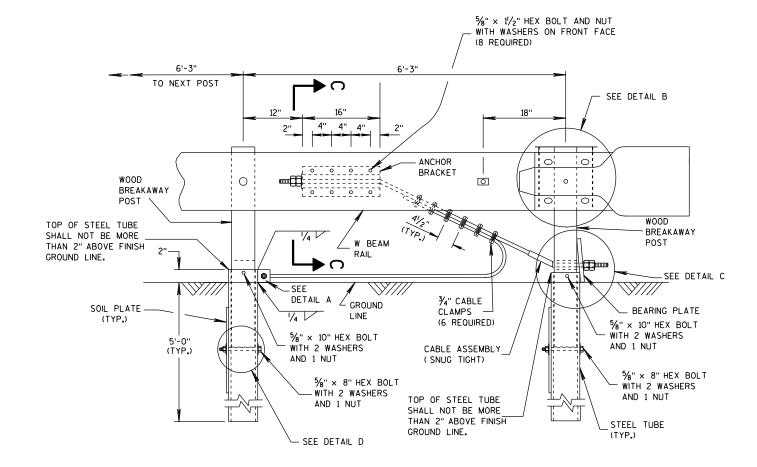
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STATE OF WISCONSIN

¾" DIA. X 9'-O" CABLE WITH ONE SWAGED END

30" DIAMETER 12 GAGE TERMINAL SECTION (ADJUST TO FIT)



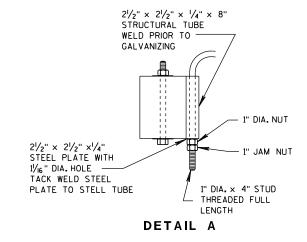
ELEVATION VIEW

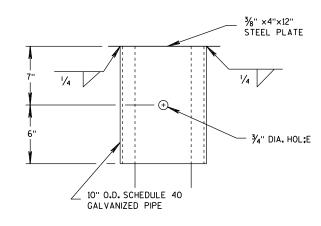
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

GENERAL NOTES

ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A 5%" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED 3/4" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.





DETAIL B (BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

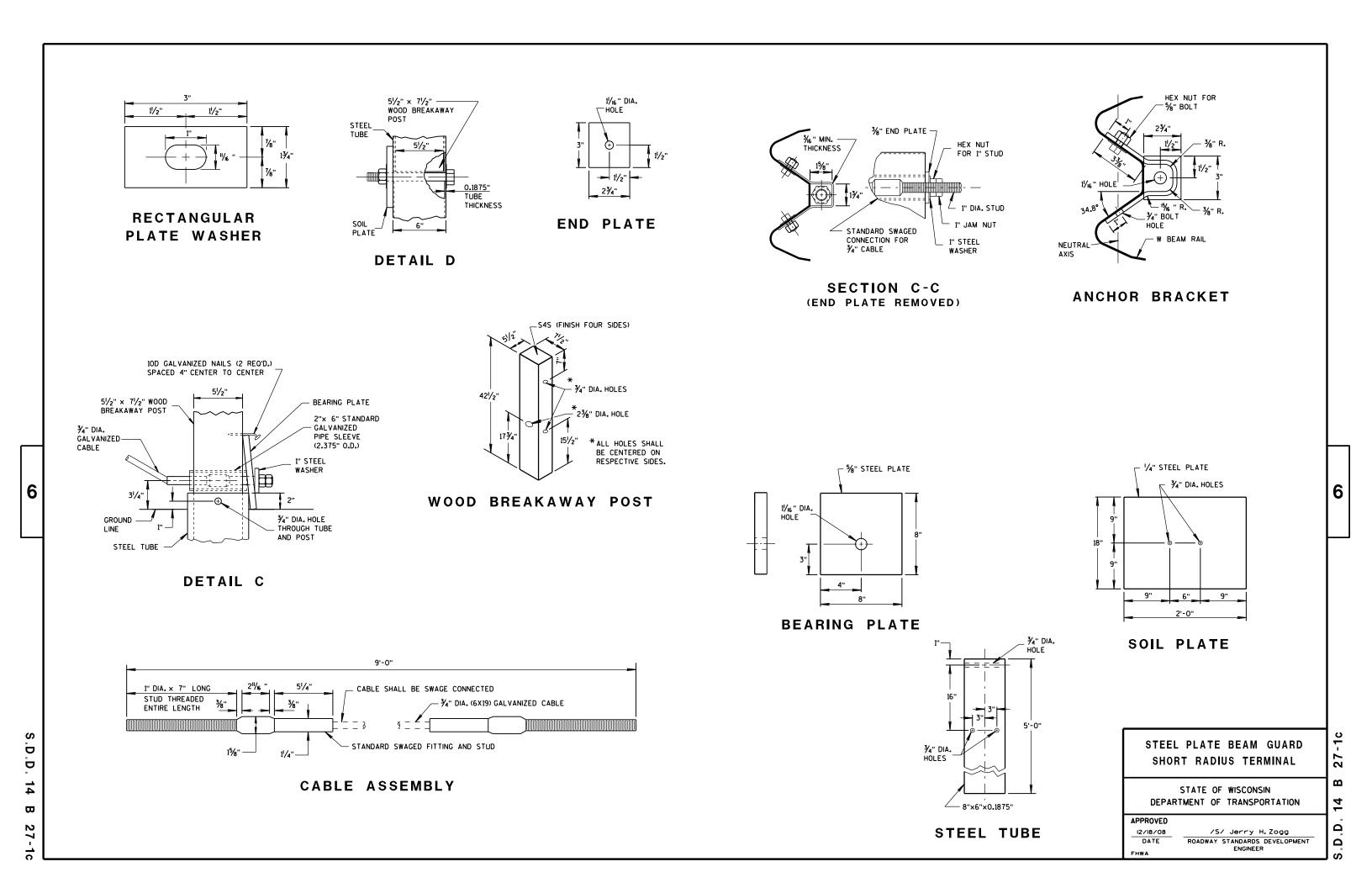
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

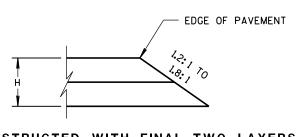
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

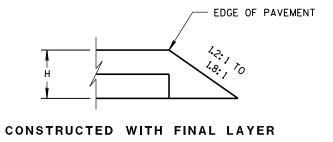
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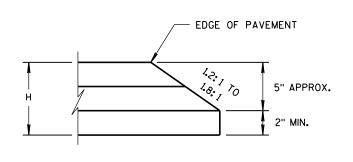


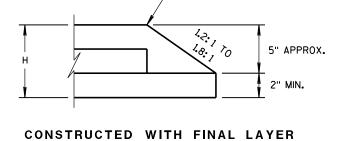


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





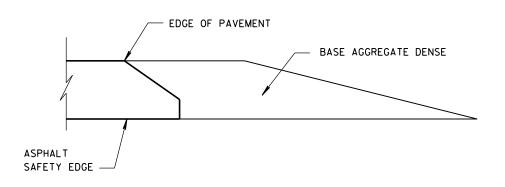
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER





GENERAL NOTES

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

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

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

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.

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

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
RI1-2 SHALL BE 48" X 30".
RI1-4 AND RI1-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

//// w

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 C 3-2

6

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

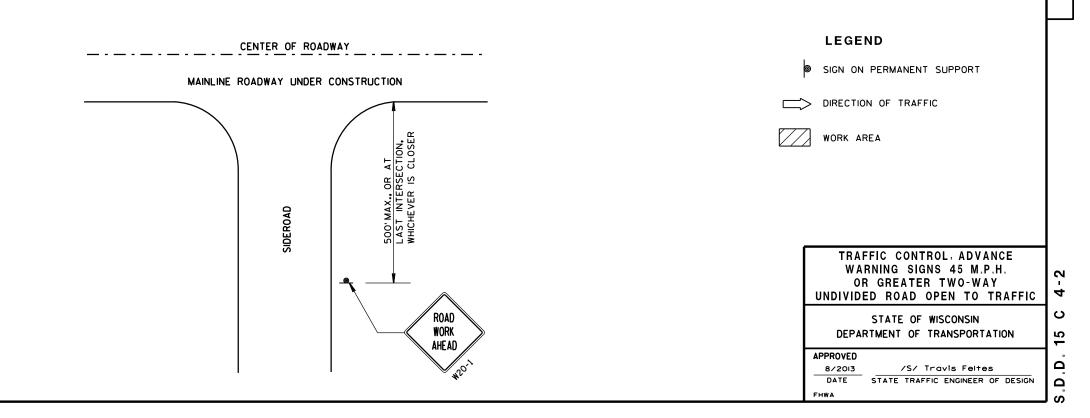
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" 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 W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



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GENERAL NOTES

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

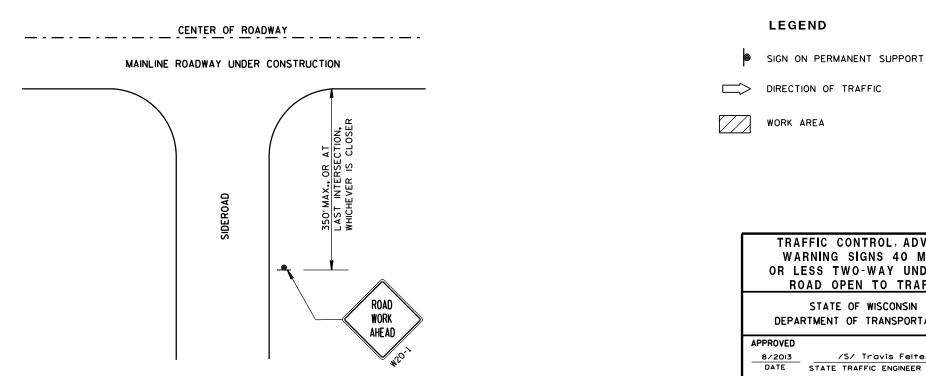
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

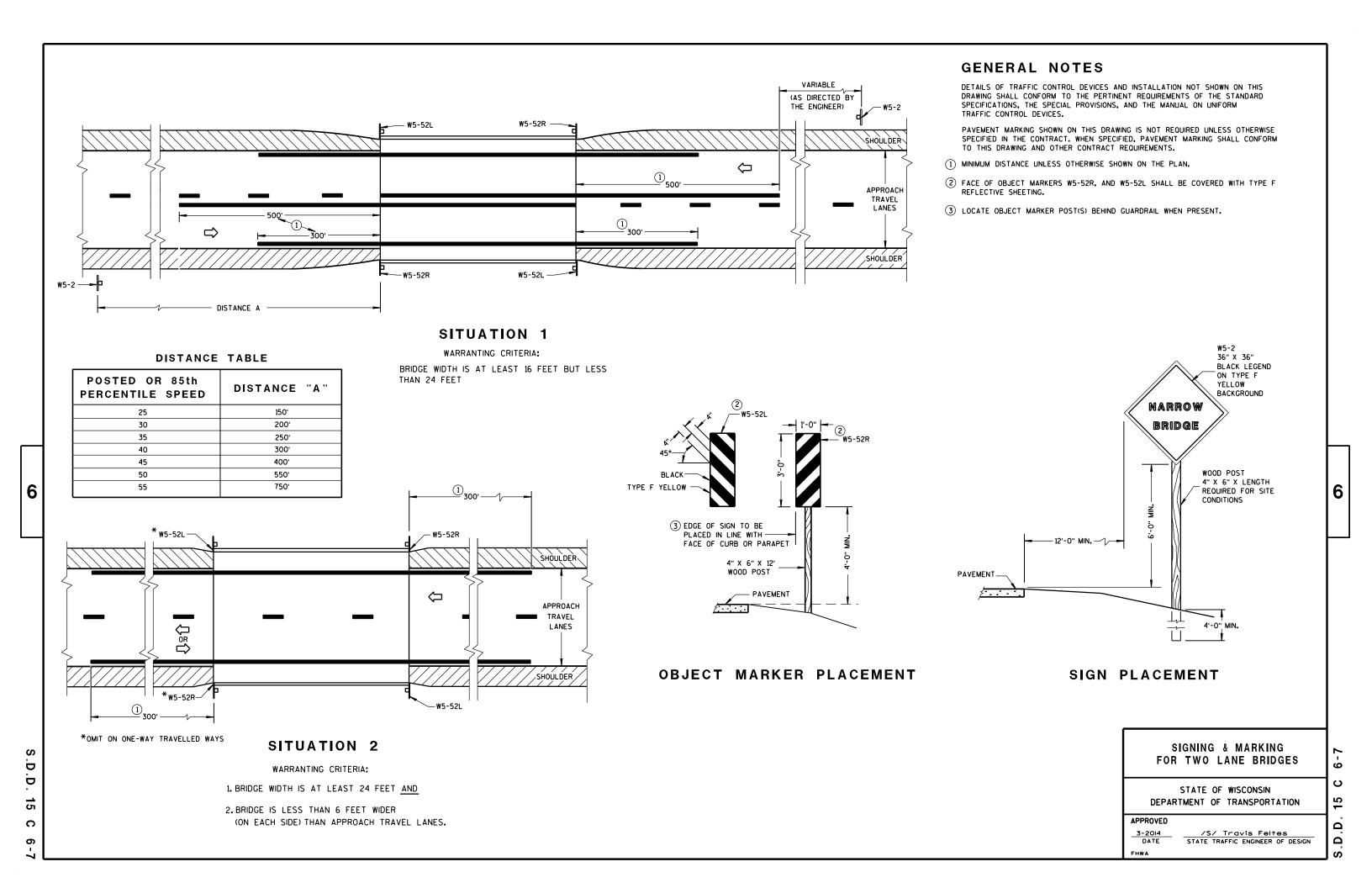
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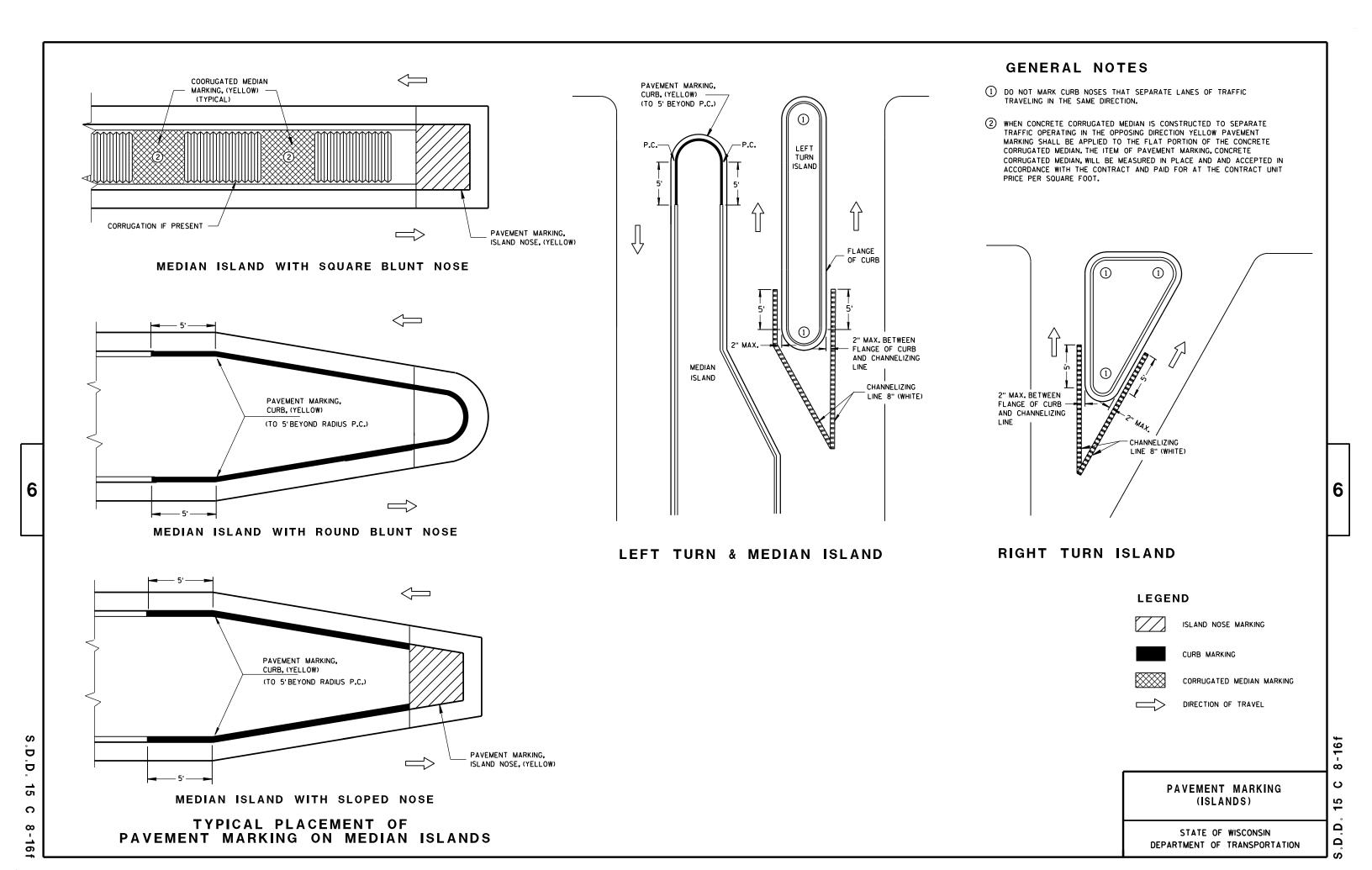
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D Ö 15 C

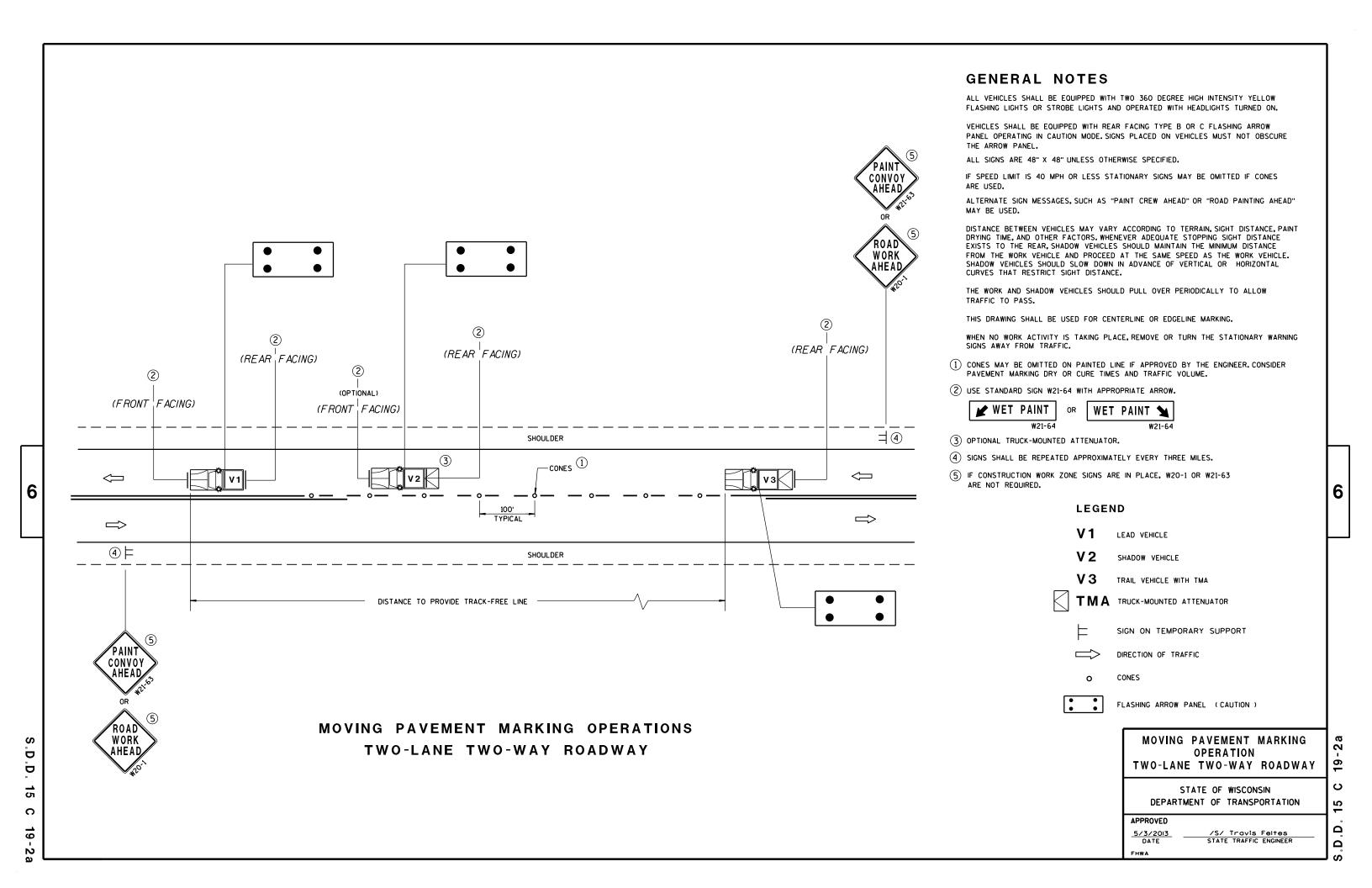












BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

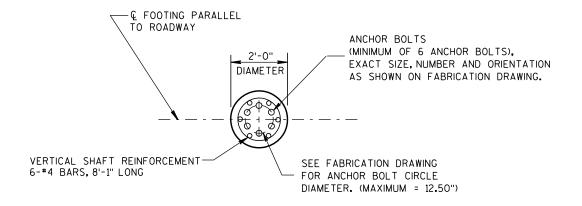
THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

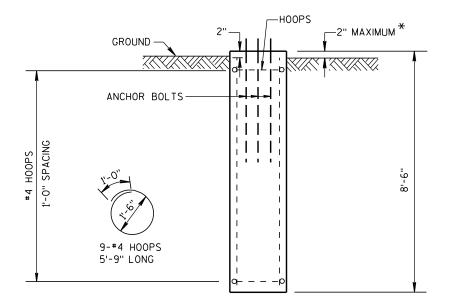
ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



PLAN VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.



ELEVATION VIEW

CONCRETE - 1.0 C.Y. PER FOOTING
H.S. REINFORCEMENT - 67 LBS. PER FOOTING

24" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

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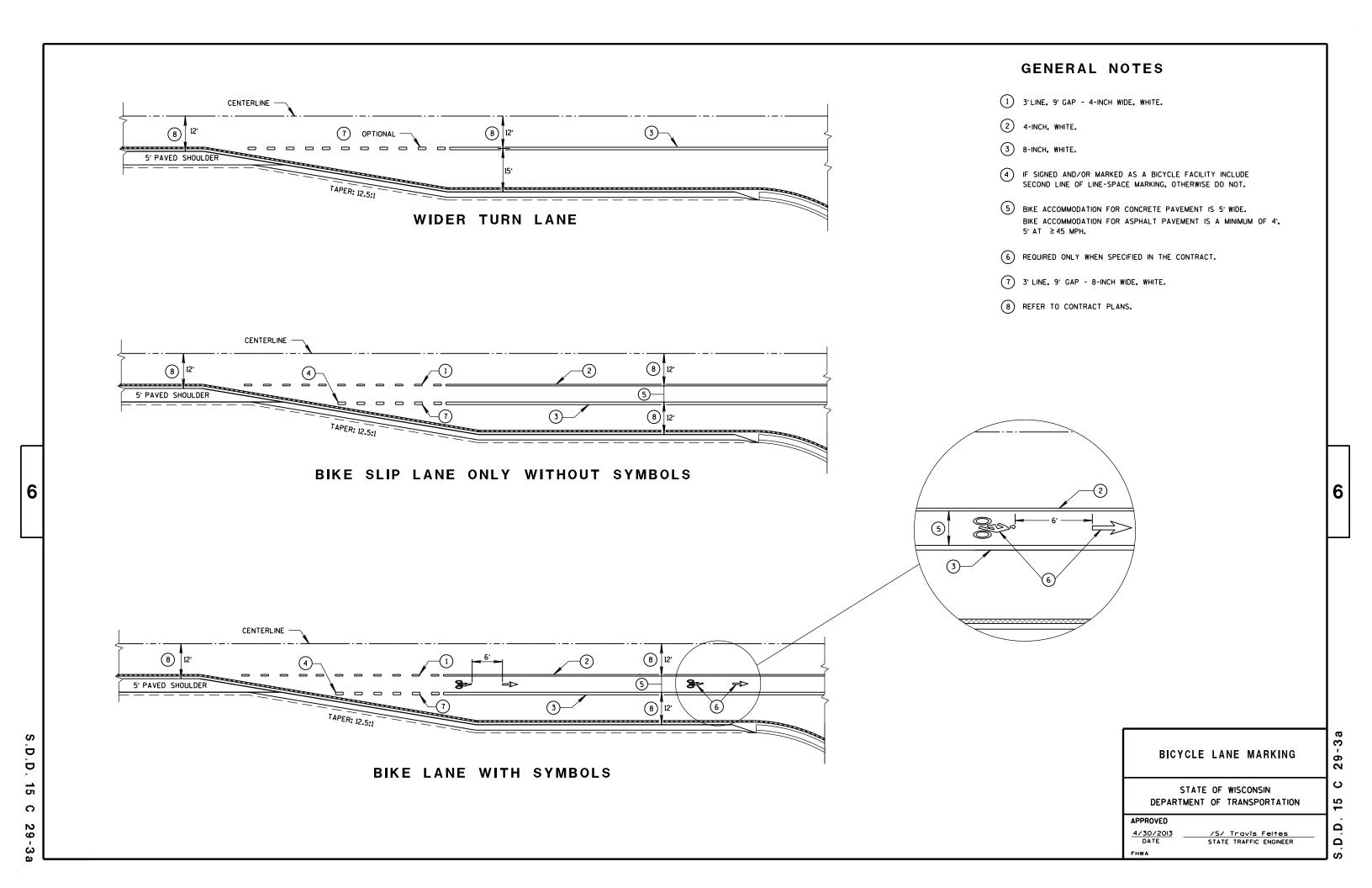
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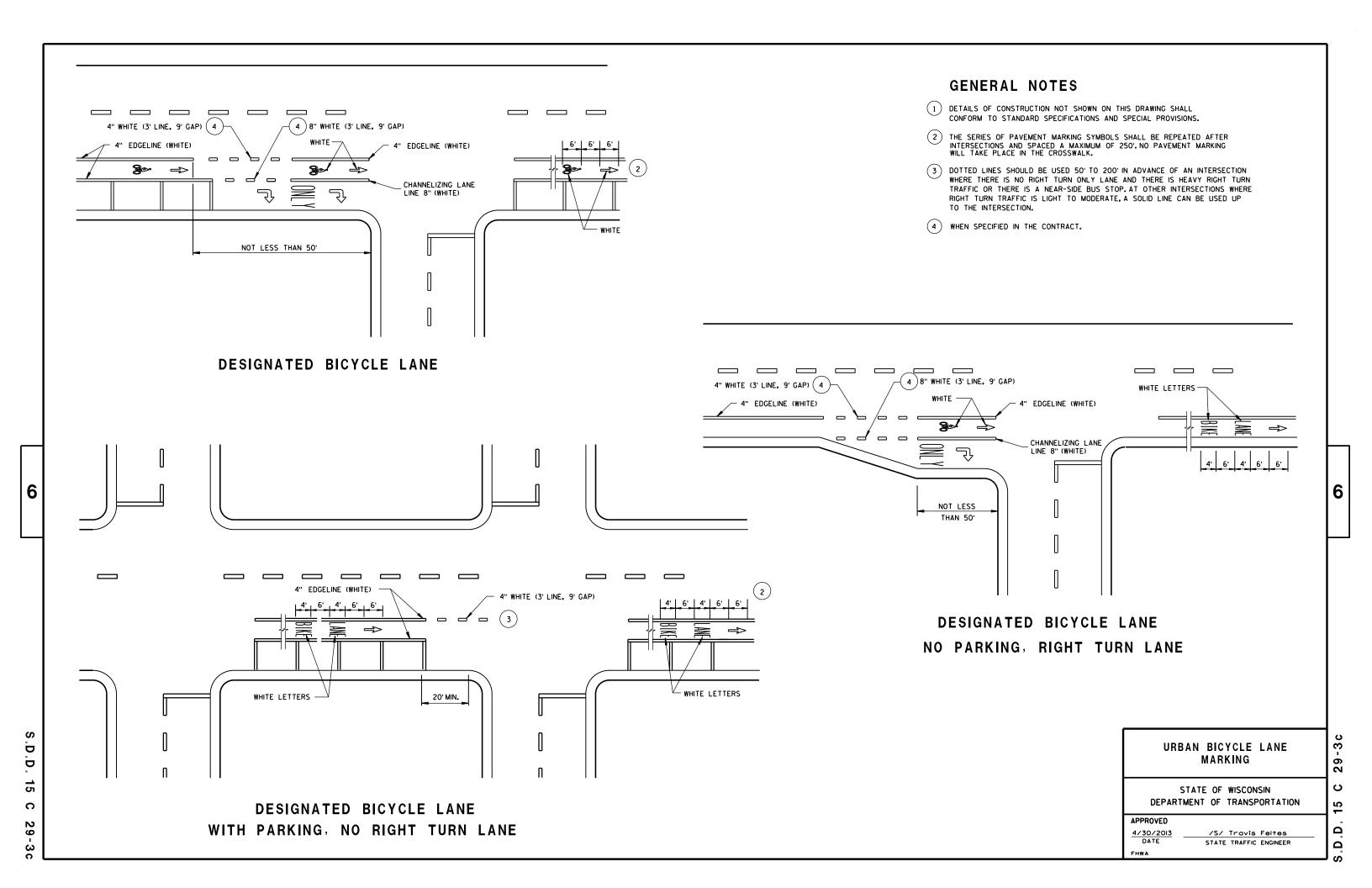
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

A-17-09
DATE

A-17-09
STATE TRAFFIC ENGINEER OF DESIGN

6

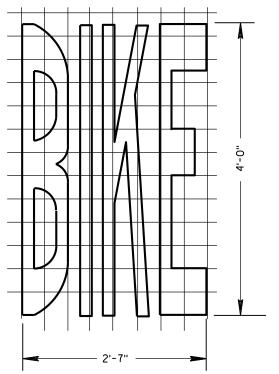




GENERAL NOTES

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.



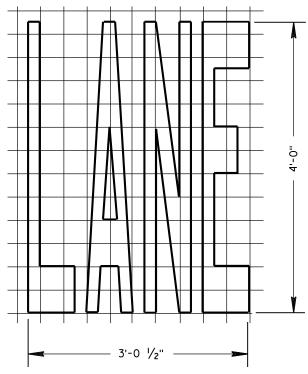
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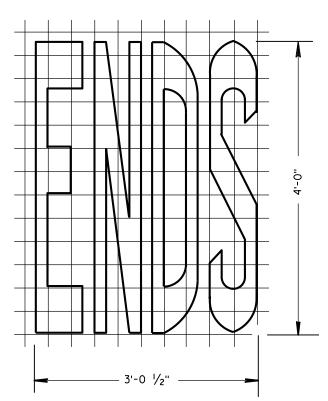
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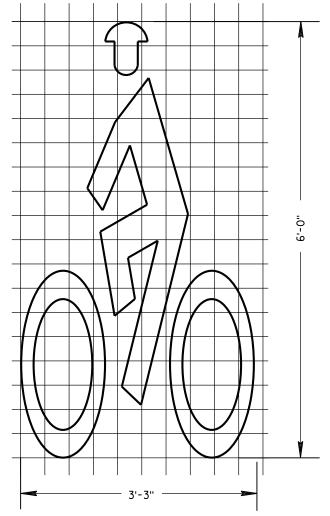
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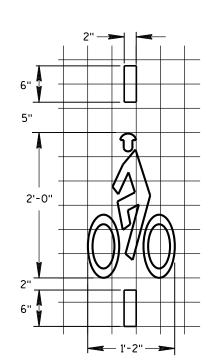




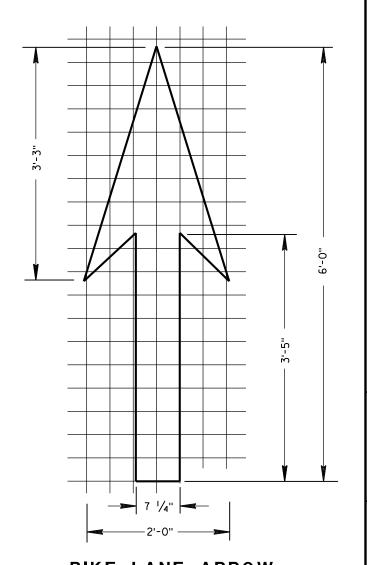
BIKE LANE WORDS



BIKE LANE SYMBOL



BICYCLE DETECTOR PAVEMENT MARKING



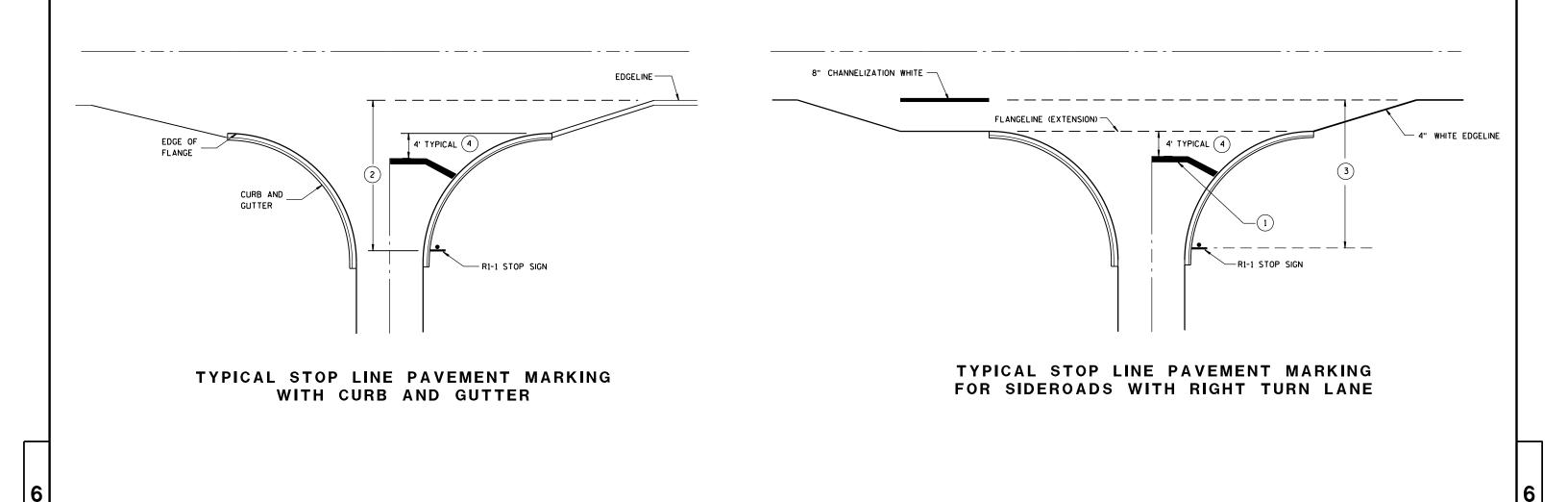
BIKE LANE ARROW

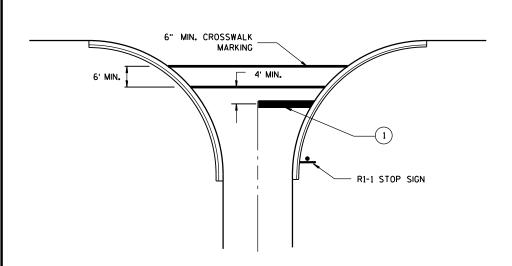
PAVEMENT	MARKING	FOR	
BIKE	LANES		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

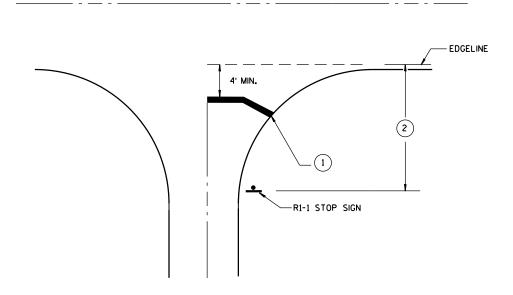
APPROVED	
4-30-2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER

S.D.D. 15 C 2





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

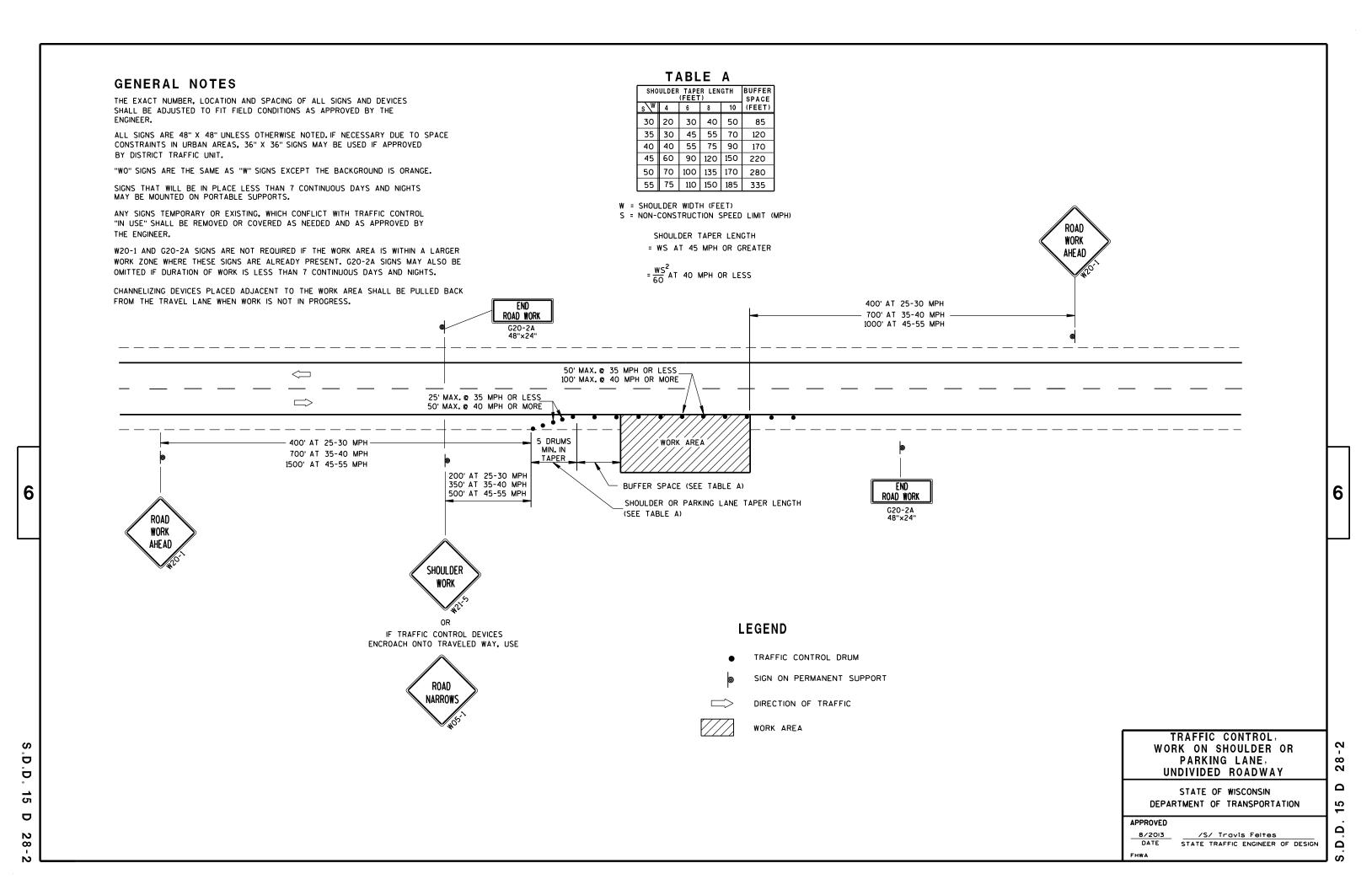
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

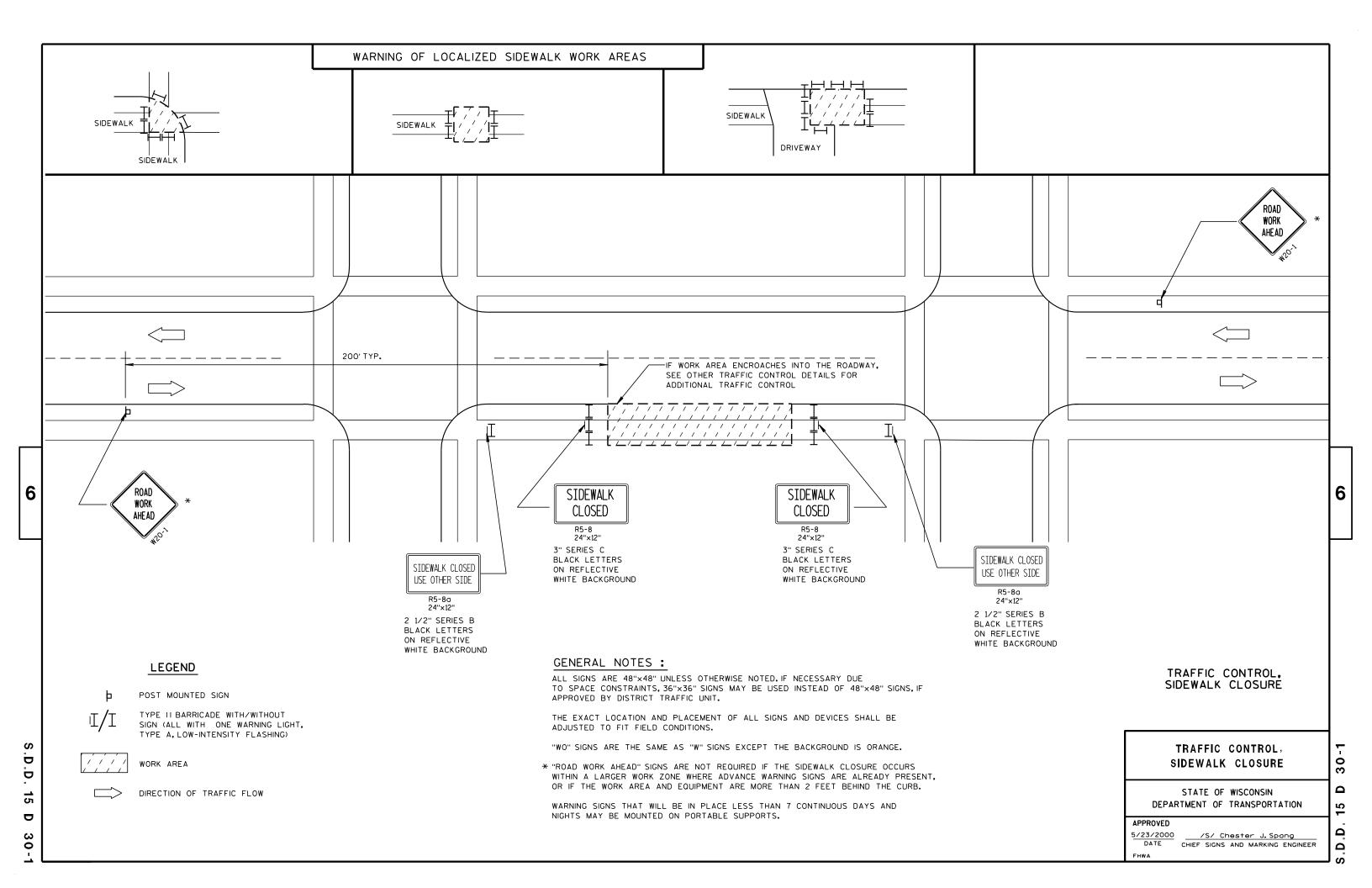
APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

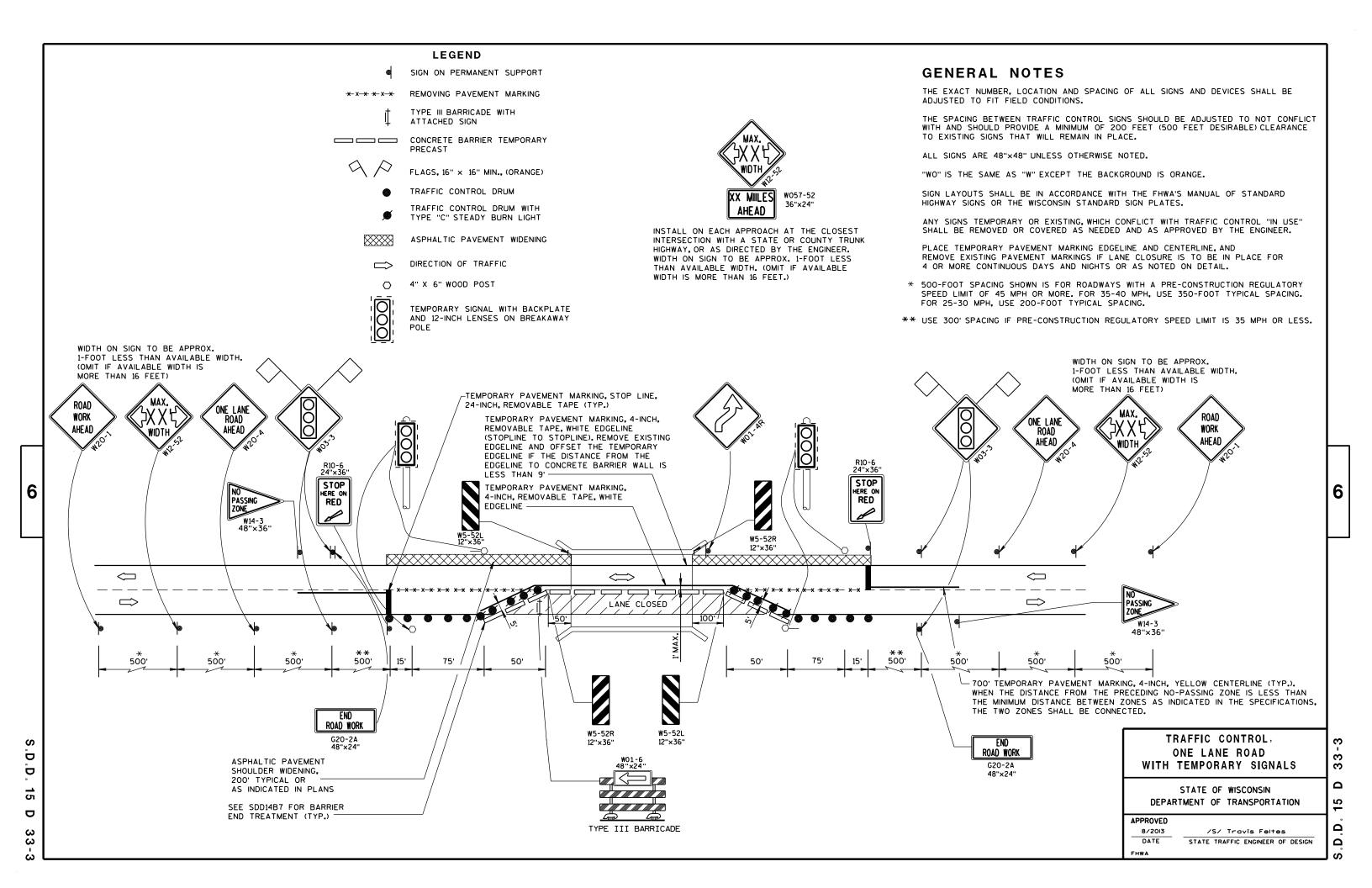
.D.D. 15 C 33-1

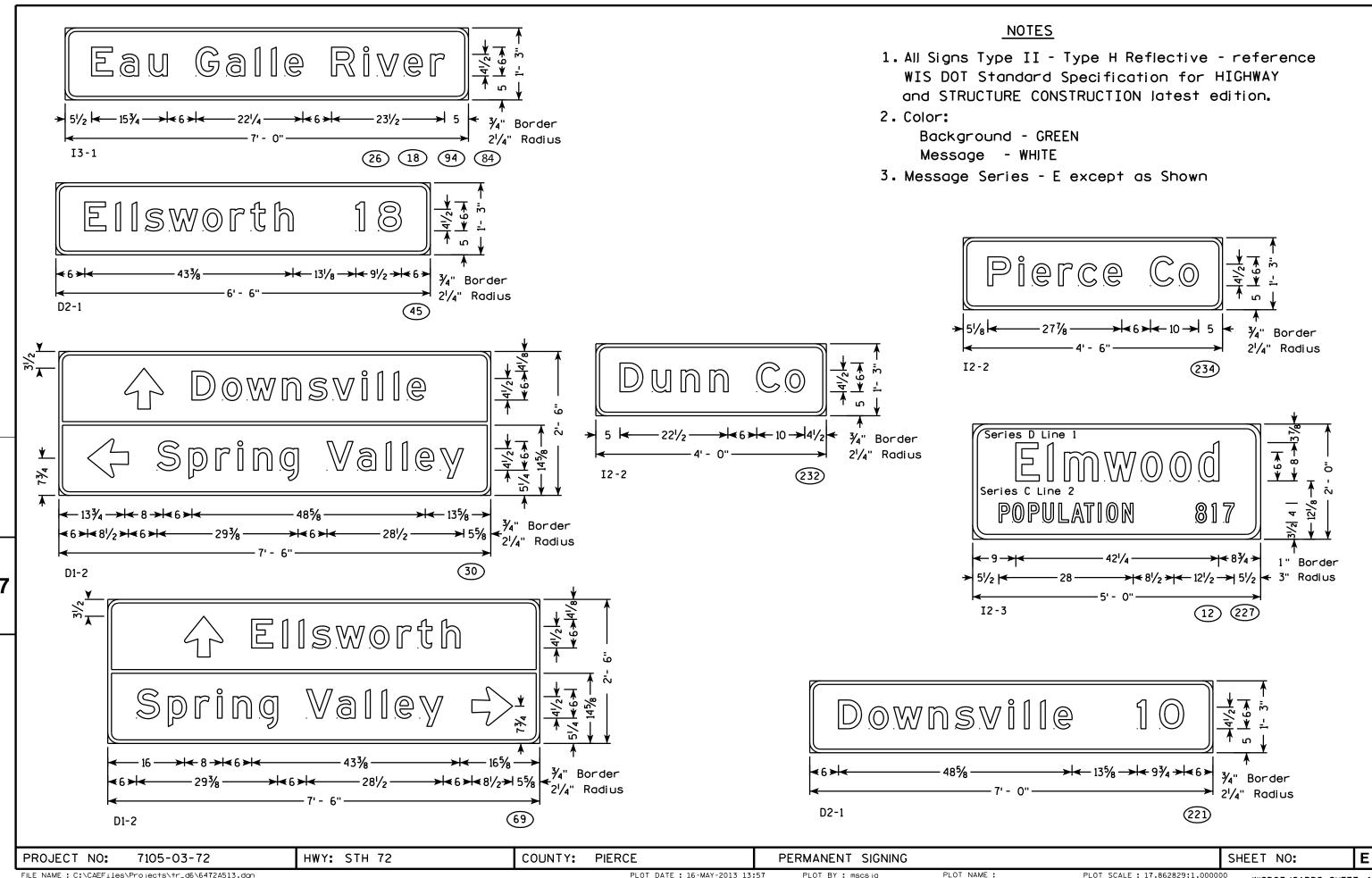
S.D.D.

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FILE NAME : C:\CAEFiles\Projects\tr_d6\6472A513.dgn

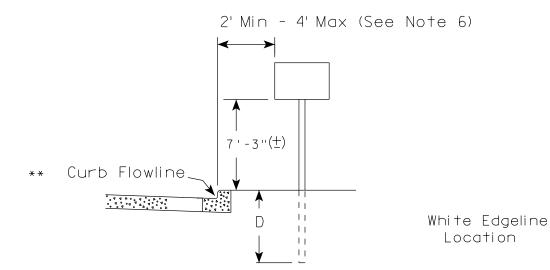
PLOT BY: mscsja

PLOT SCALE: 17.862829:1.000000

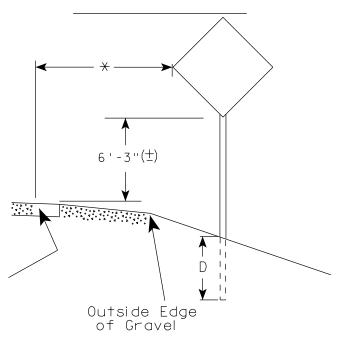
WISDOT/CADDS SHEET 42



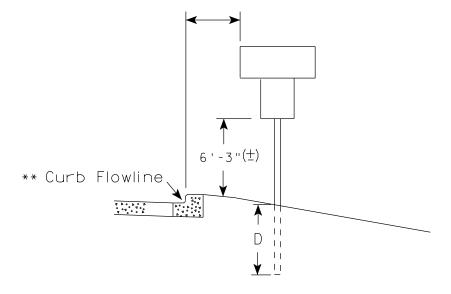
urban area



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

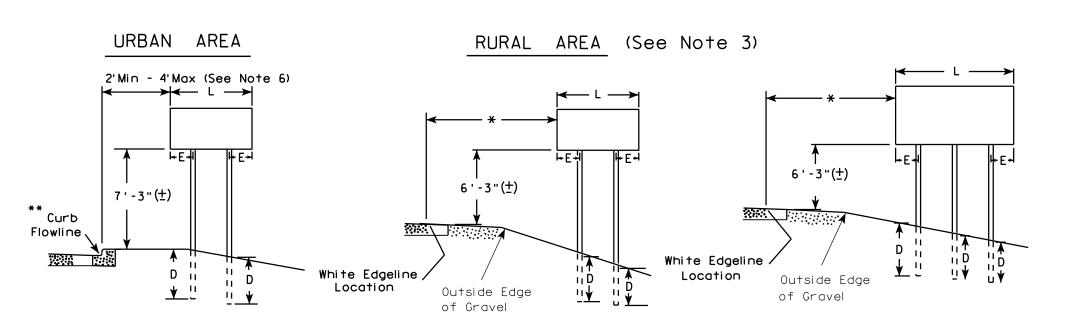
APPROVED

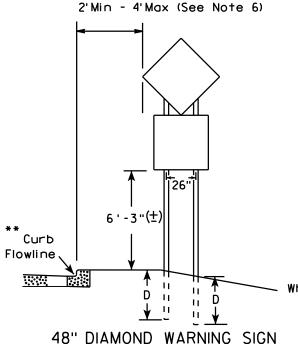
WISDOT/CADDS SHEET 42

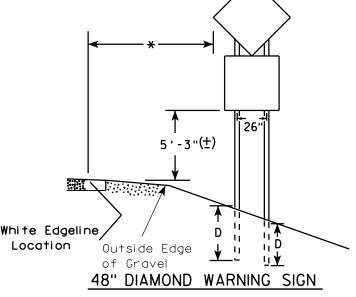
GENERAL NOTES

- 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 less than 20 S.F. in area.

APPROVED







COUNTY:

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

* *

PROJECT NO:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIF	
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

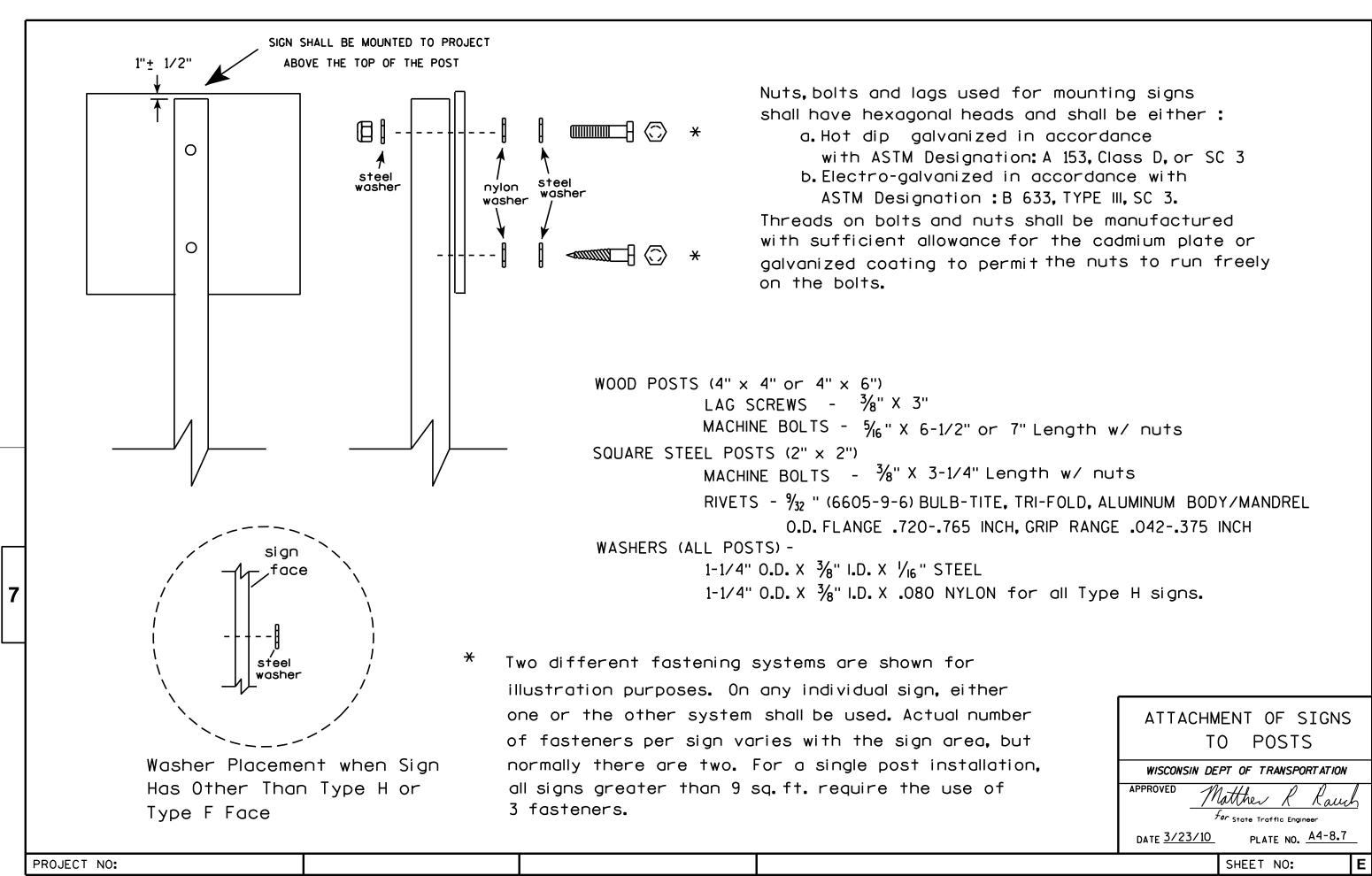
WISCONSIN DEPT OF TRANSPORTATION

Matther For State Traffic Engineer

PLATE NO. A4-4.13 DATE 4/29/14

PLOT BY: mscsja PLOT SCALE: 107.021305:1.000000

SHEET NO:



E → SPONSOR A F Y G Z F Z A F X A

HWY:

Background Colors of Symbol*

₽ 4

* VARIES

White Black Green Orange

 * $\!\!\!/_4$ " Black Border between each color of rainbow and border of rainbow

I 2 36 | 1 1/2 | 1/2 5/8 3 1/2 2 7/8 | 2 1/8 | 11 1/4 | 11 1/8 | 9 3/8 | 1 1/4 3/4 12 % 7 1/2 30 7.5 3 4 5

COUNTY:

NOTES

- 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 (See Note 6)
- 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. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

> STANDARD SIGN I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556.DGN

PROJECT NO:

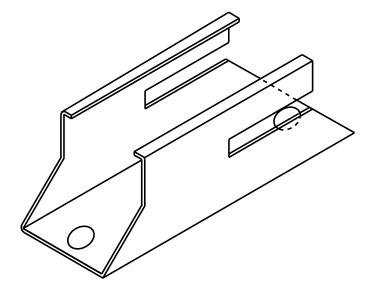
PLOT DATE: 27-APR-2011 10:05

PLOT BY: mscj9h

PLOT NAME :

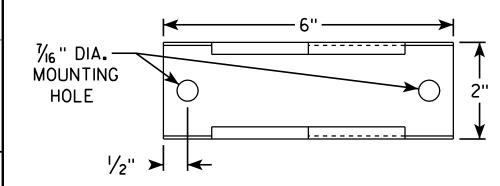
PLOT SCALE: 7.945391:1.000000

ISOMETRIC VIEW

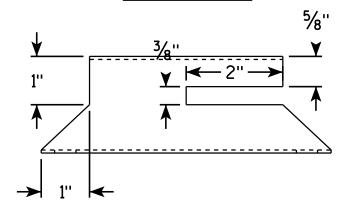


TOP VIEW

HWY:



SIDE VIEW

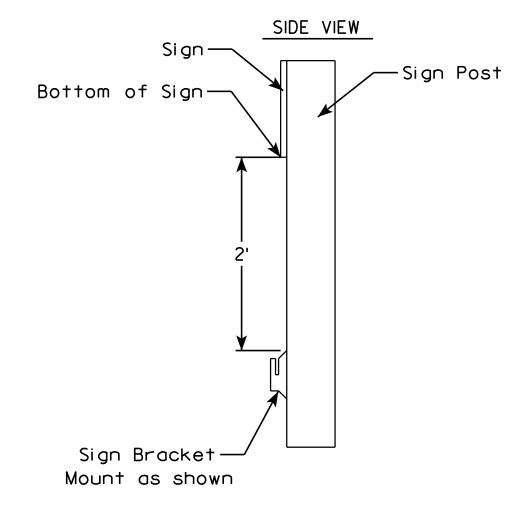


END VIEW **←** 2" →

COUNTY:

NOTES

- 1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
- 2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
- 3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
- 4. Shall have rounded edges with at least $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION APPROVED

SHEET NO:

for State Traffic Engineer DATE 2/5/10 PLATE NO. 155-56B.1

PLOT NAME :

PLOT SCALE: 1.986348:1.000000

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556B.DGN

PROJECT NO:

PLOT DATE: 01-MAR-2010 15:34

PLOT BY : ditjph

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

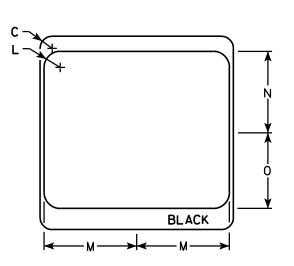
Background - White & Black - See Note 7 Message - Black

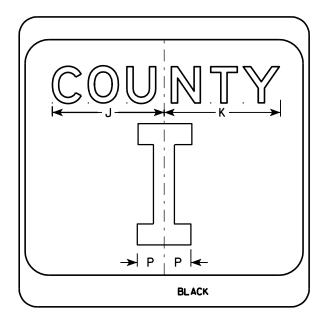
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

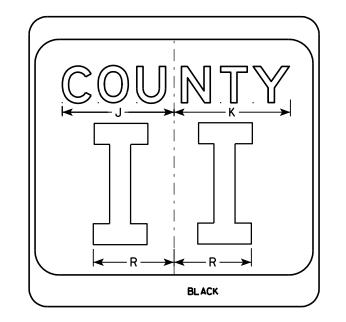
 Message Series D for 2 letters unless
 message is too big then Series C.

 Message Series C for 3 letters unless
 message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
DDO	IECT	NO.					111	/V.					COUN	TV.													
FRU	JECT	NO.					HV	V I .						I I .					I								

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED

Matthew Rauch

Forstate Traffic Engineer

NATE 9/27/11 PLATE NO. M1-5A.8

DATE 9/27/11

SHEET NO:

BLACK

M1-5A

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 Message - Black

- 3. Message Series See note 5
- 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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs
 Background Type H Reflective
 Detour or temporary Signs
 Background Reflective

BLACK	↑ G → ↑ F → → ↑ → → → → → → → → → →
Metric equivalent for this sign is:	

HWY:

900 mm X 900 mm

5 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	. 81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
ט ן	26		2 /4			10	0 74	J /4	12 78	3 78	12 78	11 /8	1 /2	² /8	10 /8	33		<u> </u>										9.0

COUNTY:

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

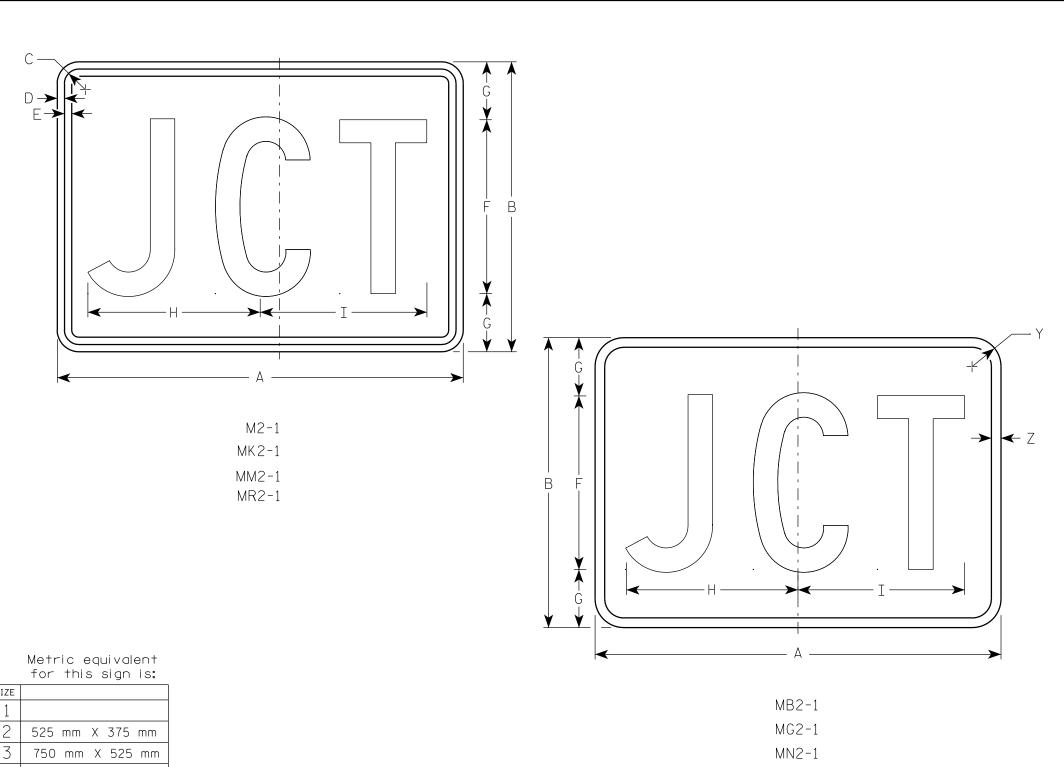
APPROVED

The state Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

PLOT NAME :



- 1. Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 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. M2-1 Background White Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
 - MB2-1 Background Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - MG2-1 Background Green Message - White - Type H Reflective
 - MK2-1 Background Green Message - White - Type H Reflective
 - MM2-1 Background White Type H Reflective Message - Green
 - MN2-1 Background Brown Message - White - Type H Reflective
 - MR2-1 Background Brown Message - Yellow - Type H Reflective

750 mm X 525 mm 750 mm X 525 mm

PROJECT NO:

SIZE	Ξ.	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.	Area m2
1																													
2	2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 %																1 1/2	1/2	2.20	0.20
3	3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20
4	-	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20
5	-	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20

COUNTY:

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

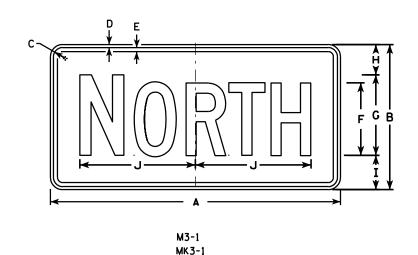
DATE 3/16/10

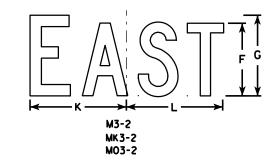
PLATE NO. M2-1.10 SHEET NO:

WISDOT/CADDS SHEET 42

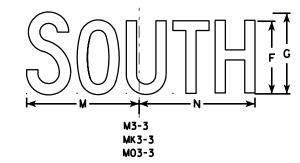
PLOT NAME : PLOT DATE: 16-MAR-2010 09:49 PLOT SCALE: 4.965868:1.000000 PLOT BY: dotsja

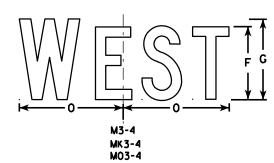
HWY:



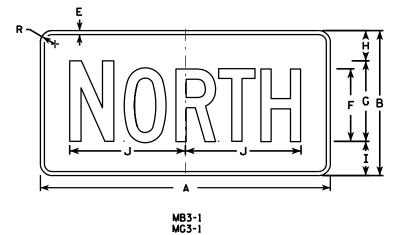


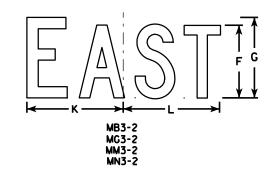
MO3-1





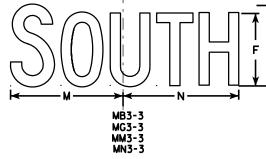
HWY:

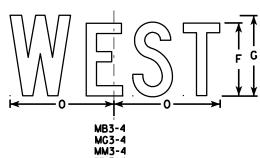




MM3-1

MN3-1





<u>NOTES</u>

- 1. All Signs Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 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. M3-1 thru M3-4 Background White Type H Reflective (Detour or temporary signs Reflective) Message Black
 - MB3-1 thru MB3-4 Background Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
 - MG3-1 thru MG3-4 Background Green

 Message White Type H Reflective
 - MK3-1 thru MK3-4 Background Green

 Message White Type H Reflective
 - MM3-1 thru MM3-4 Background White Type H Reflective Message Green
 - MN3-1 thru MN3-4 Background Brown
 Message White Type H Reflective
 - M03-1 thru M03-4 Background Orange Reflective Message Black
- 6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	כ	٧	W	X	Y	Z	Areo sq. ft.
1																											
2	24	12	1 1/8	3/8	3⁄8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 ¾			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

SHEET NO: E

PROJECT NO:

PLOT NAME :

- Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M5-1 and M5-2 Background White Type H Reflective Message Black
 - MB5-1 and MB5-2 Background Blue

 Message White Type H Reflective
 - MG5-1 and MG5-2 Background Green

 Message White Type H Reflective
 - MK5-1 and MK5-2 Background Green
 - Message White Type H Reflective
 - MM5-1 and MM5-2 Background White Type H Reflective Message Green
- MN5-1 and MN5-2 Background Brown

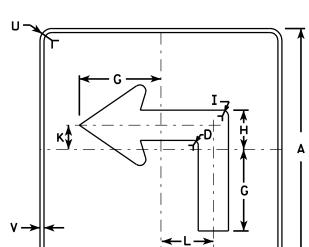
Message - White - Type H Reflective

- M05-1 and M05-2 Background Orange Type F Reflective Message Black
- MP5-1 and MP5-2 Background White Type H Reflective Message Blue
- MR5-1 and MR5-2 Background Brown
 - Message Yellow Type H Reflective
- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

c —	
D → E →	
Į.	←
·	M5-2L
	MK5-2L

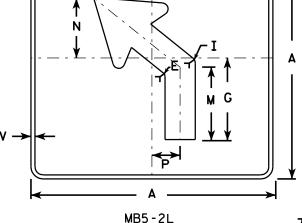
MK5-1L MM5-1L MO5-1L MP5-1L MR5-1L

M5-1L



MB5-1L MG5-1L MN5-1L

HWY:



MG5-2L

MN5-2L

MM5-2L

M05-2L

MP5-2L

MR5-2L

T A S

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areo sq. ft
1																											
2	21		1 1/8	3%	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 %	5 1/4	5	2 1/2		1/2	2 %	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7 /8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7 /8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 1/8	½		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

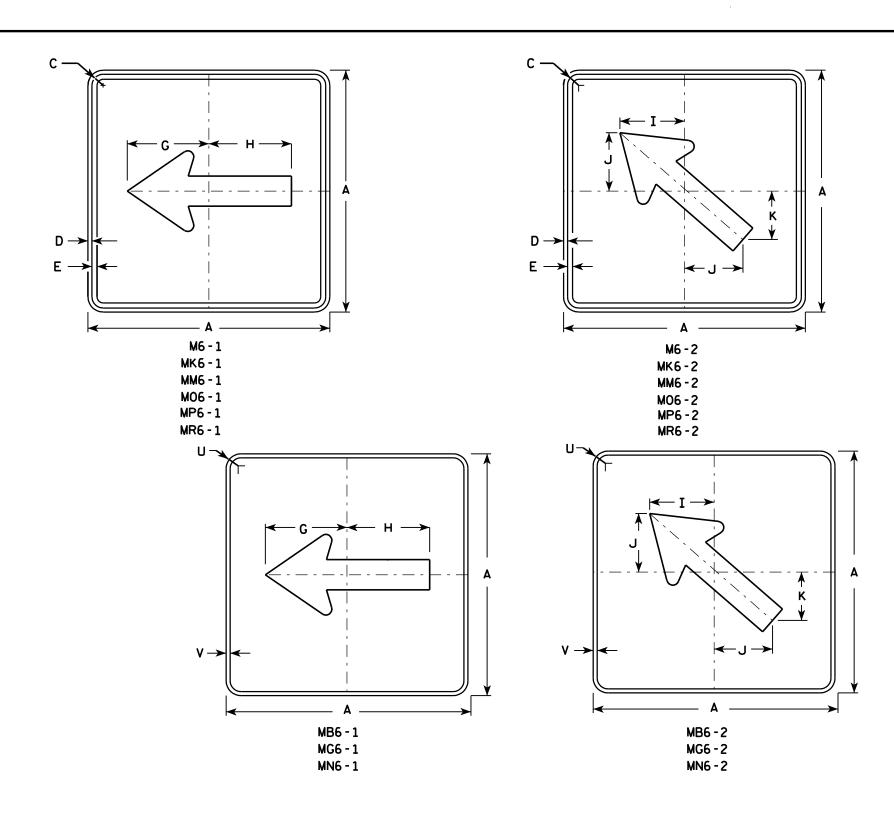
APPROVED

For State Traffic Engineer
DATE 7/29/13 PLATE NO. M5-1.12

SHEET NO:

PROJECT NO:

PLOT NAME :



- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

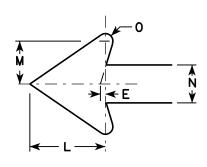
Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White Type H Reflective Message Black
 - MB6-1 and MB6-2 Background Blue Message - White - Type H Reflective
 - MG6-1 and MG6-2 Background Green
 Message White Type H Reflective
 - MK6-1 and MK6-2 Background Green

 Message White Type H Reflective
 - MM6-1 and MM6-2 Background White Type H Reflective Message Green
 - MN6-1 and MN6-2 Background Brown

 Message White Type H Reflective
 - M06-1 and M06-2 Background Orange Type F Reflective Message - Black
 - MP6-1 and MP6-2 Background White Type H Reflective Message Blue
 - MR6-1 and MR6-2 Background Brown

 Message Yellow Type H Reflective



PLOT NAME :

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

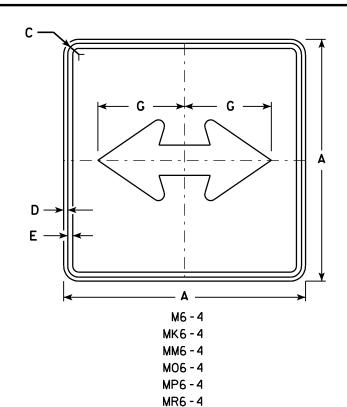
Matther R Rauch

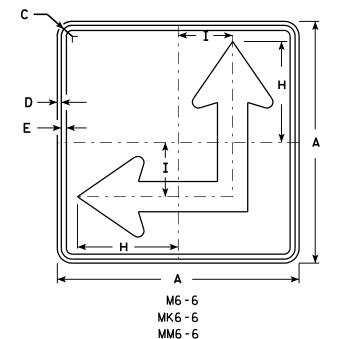
DATE 7/29/13 PLATE NO. M6-1.13

SHEET NO:

HWY:

PROJECT NO:

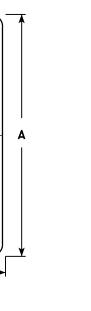




MO6-6

MP6-6

MR6-6

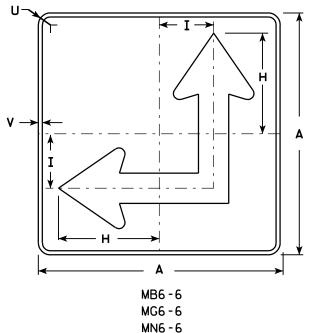


MB6 - 4

MG6 - 4

MN6 - 4

HWY:



NOTES

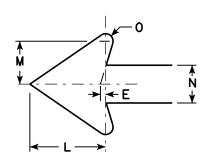
- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Type H Reflective Message Black
 - MB6-4 and MB6-6 Background Blue
 - Message White Type H Reflective
 - MG6-4 and MG6-6 Background Green
 - Message White Type H Reflective
 - MK6-4 and MK6-6 Background Green

 Message White Type H Reflective
 - MM6-4 and MM6-6 Background White Type H Reflective
 - Message Green
 - MN6-4 and MN6-6 Background Brown
 - Message White Type H Reflective M06-4 and M06-6 Background Orange Type F Reflective
 - Message Black
 - MP6-4 and MP6-6 Background White Type H Reflective
 - Message Blue
 - MR6-4 and MR6-6 Background Brown

 Message Yellow Type H Reflective
- 5. M6-6R same as M6-6L except arrow points ahead and right.



PLOT NAME :

SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	С	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	₹4						1 %	1/2					6.25
4	30		1 3/8	1/2	5%		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	₹4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

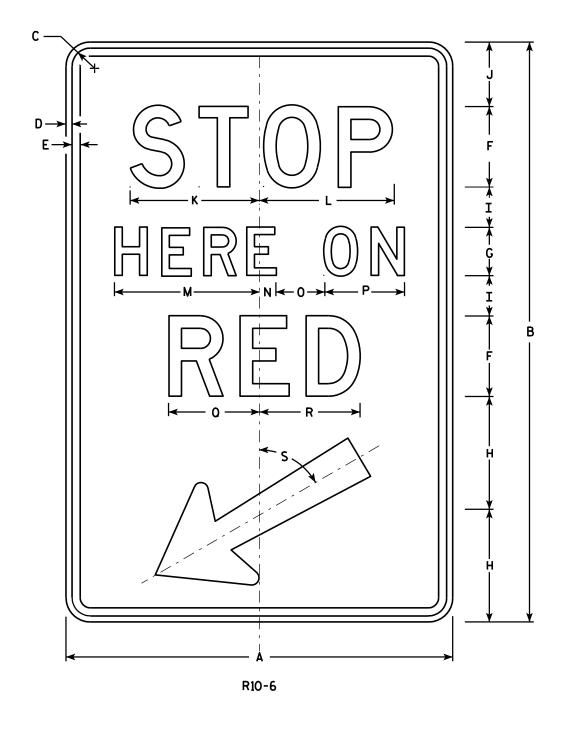
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 7/29/13 PLATE NO. M6-4.8

SHEET NO:

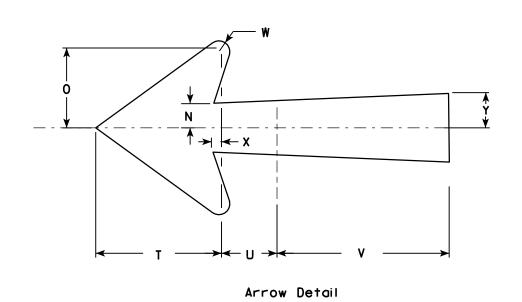
PROJECT NO:



- 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	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	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						·																					

COUNTY:

STANDARD SIGN R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

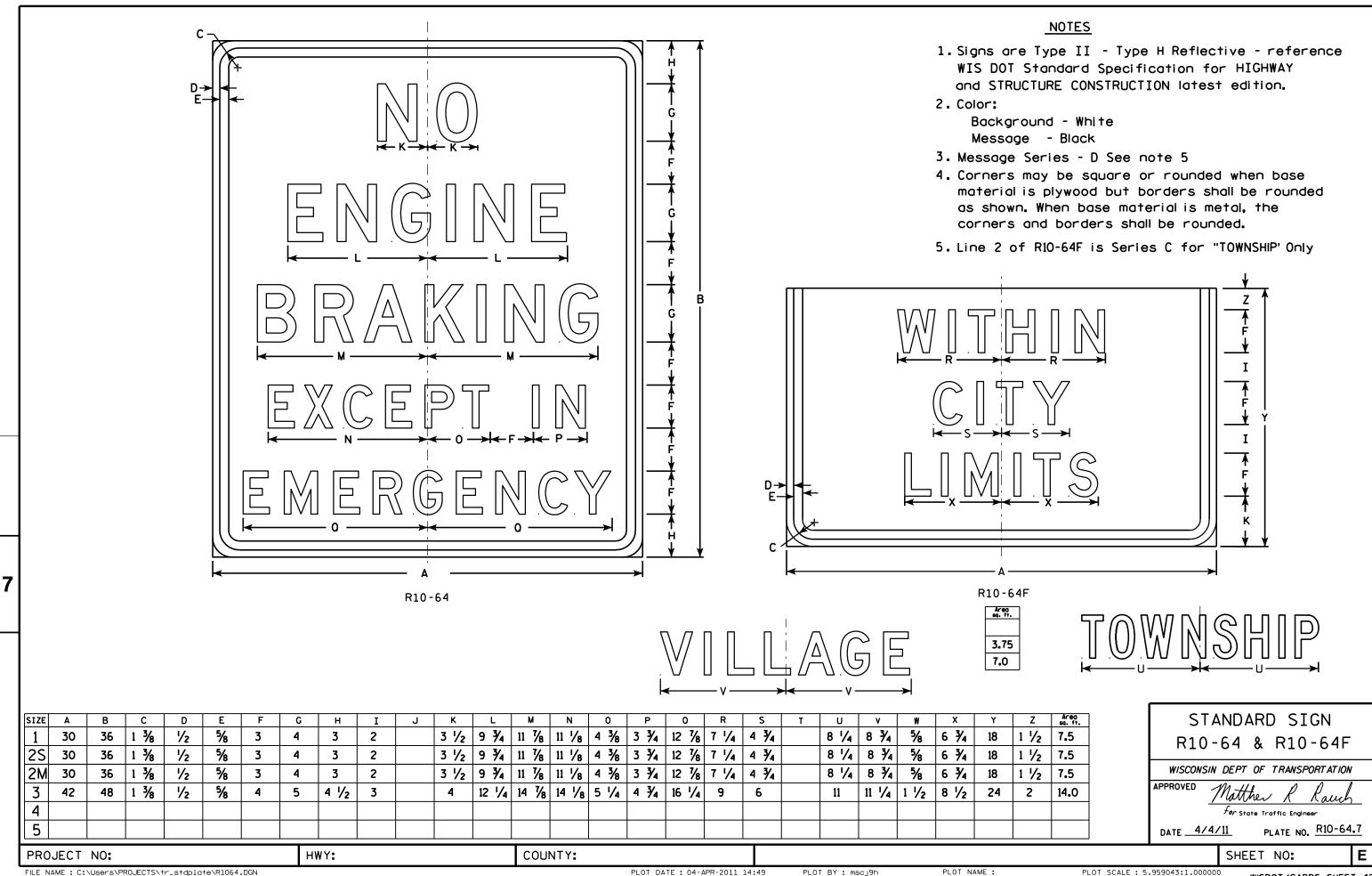
SHEET NO:

DATE 4/5/11

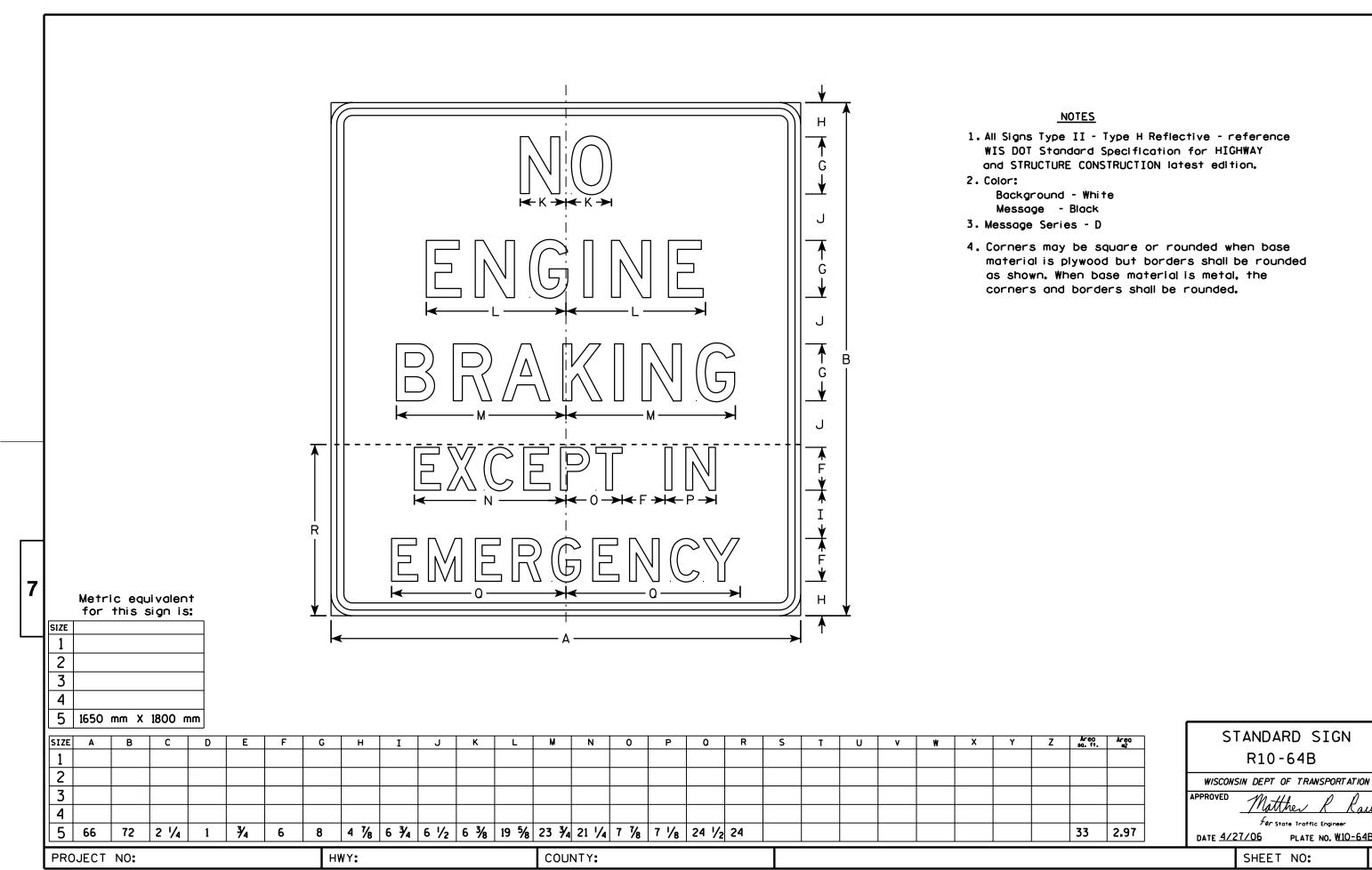
HWY:

PROJECT NO:

PLOT NAME :



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R1064.DGN



FILE NAME : C:\Users\Projects\tr_stdplate\R1064B.dgn

PLOT DATE: 27-APR-2006 15:39

PLOT BY : DITJPH

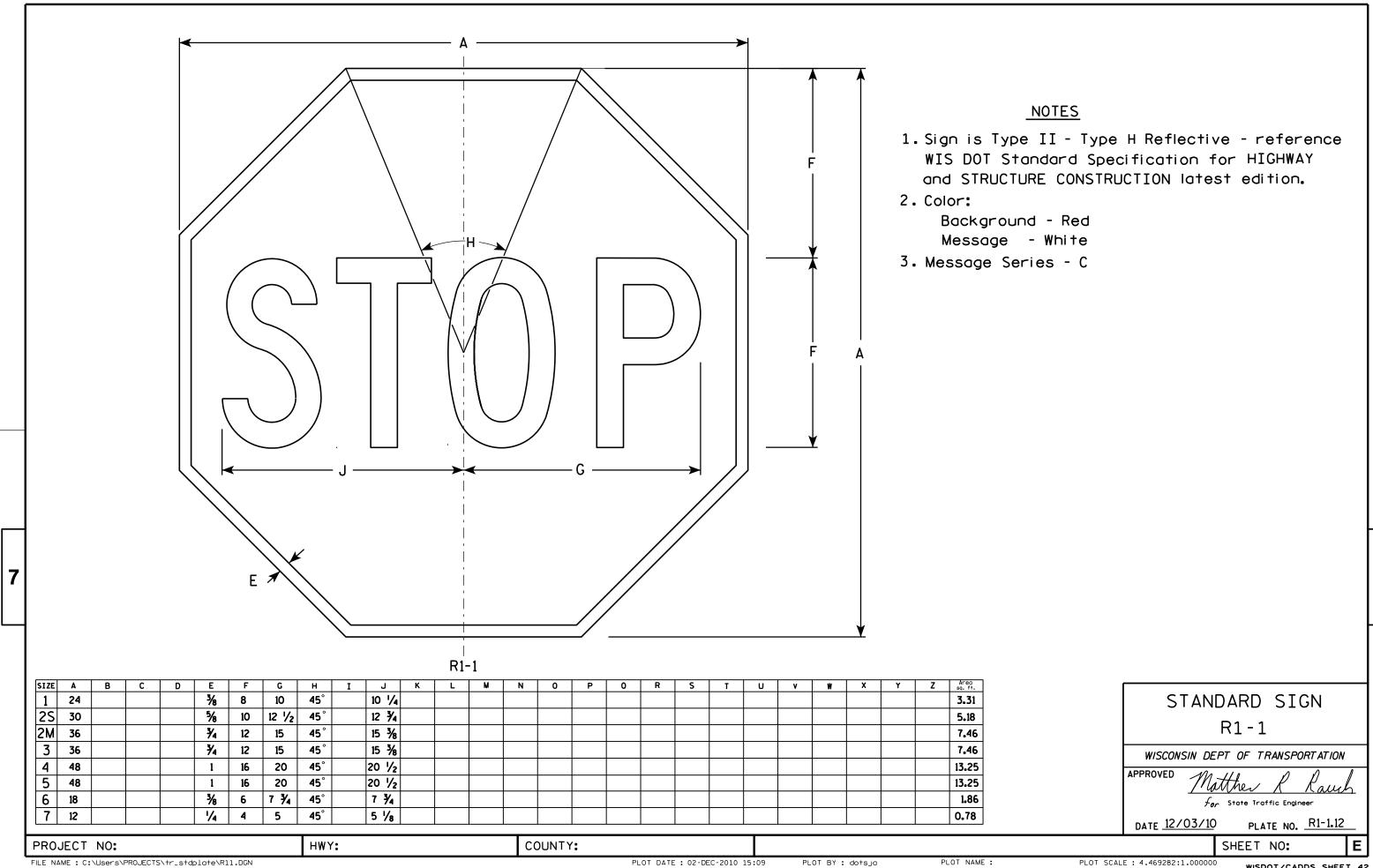
PLOT NAME :

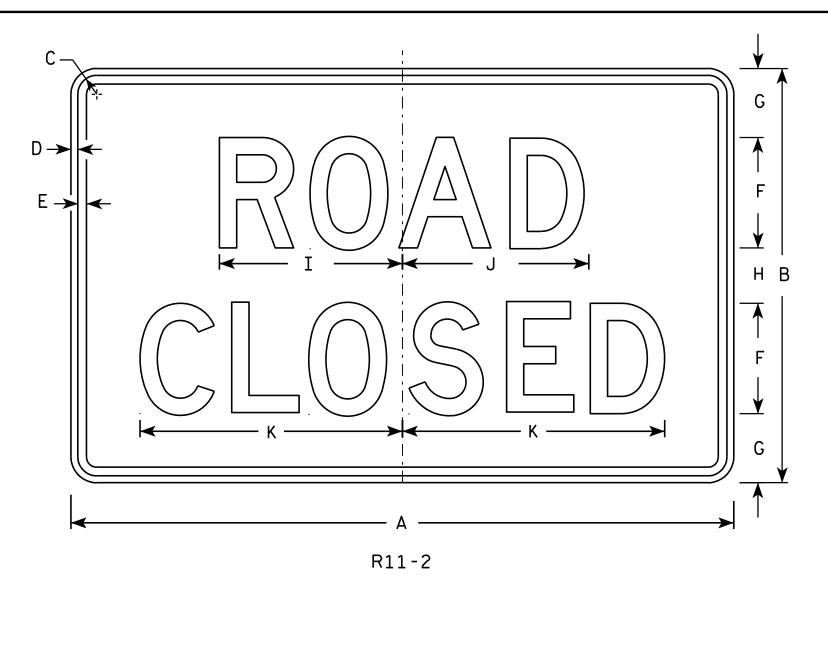
PLOT SCALE: 11.992500:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. W10-64B.1

For State Traffic Engineer



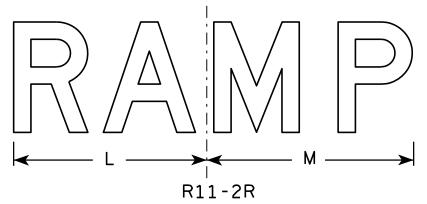


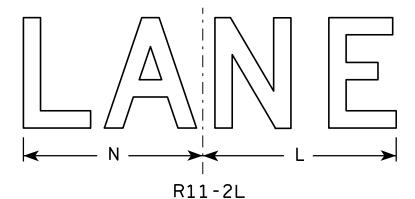
<u>NOTES</u>

- 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.
- 5. Modify the message as required.





SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
PRO	DJECT	NO:						HWY:					С	OUNTY	':												

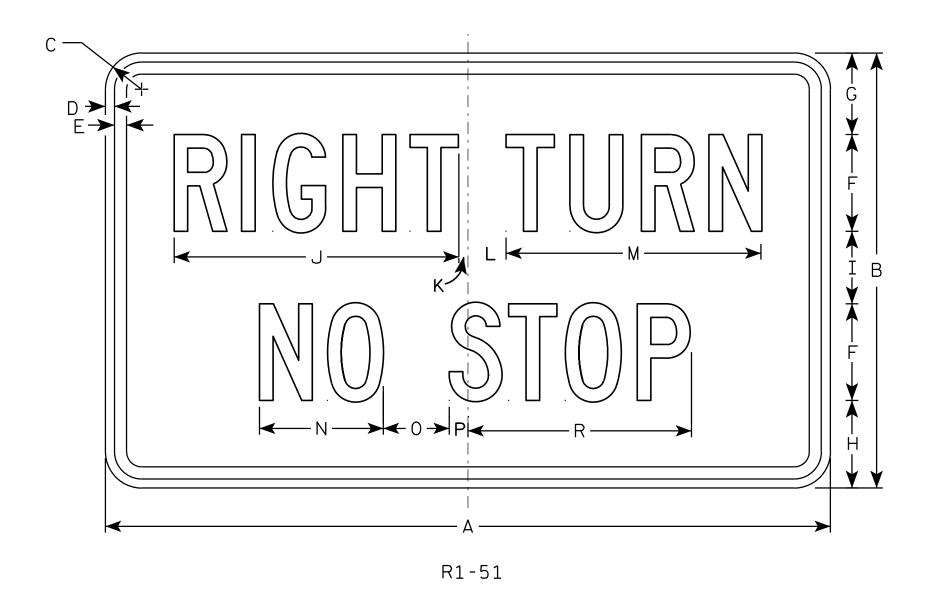
STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

PLOT BY: mscj9h



- 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 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.

25 1 1/8 3 3/8 3 5/8 11 3/4 3/8 1 % 10 1/2 5 1/8 2 3/4 30 3/8 1/2 3/4 9 1/4 3.75 1 3/8 5/8 18 3/4 16 3/4 8 2M 48 24 1/2 14 % 8.00 3 5

STANDARD SIGN

R1-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer DATE 10/13/11 PLATE NO. R1-51.8

SHEET NO:

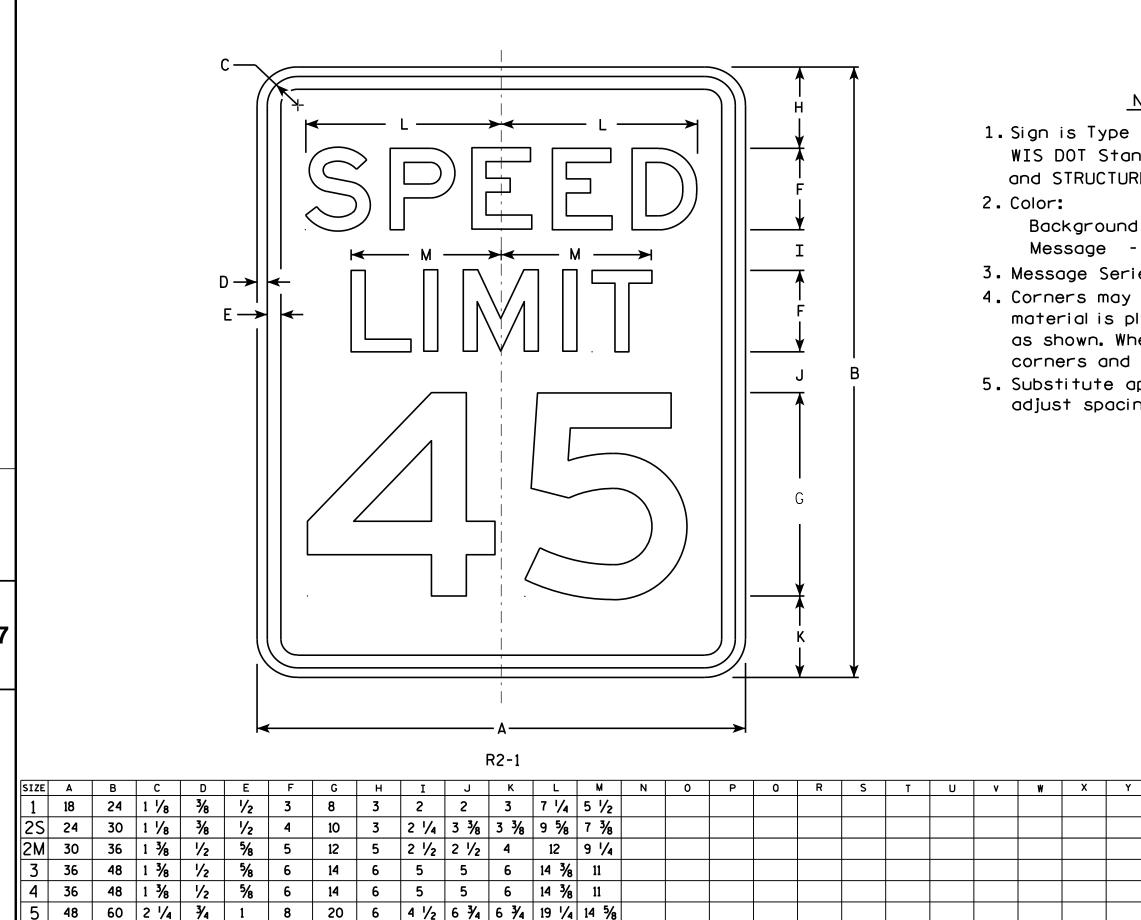
HWY:

COUNTY:

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

PROJECT NO:



COUNTY:

NOTES

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

Background - White Message - Black

- 3. Message Series E
- 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. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raus

For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

PROJECT NO:

HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

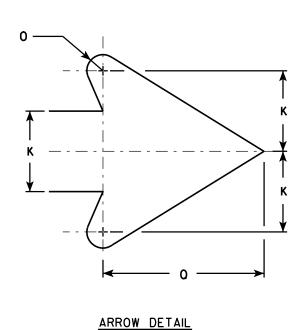
PLOT SCALE: 4.717577:1.000000

<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 - See note 4

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



G H A	

SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	l v	w	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 %	5/8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
3	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 5/8										9.0
4	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 5/8										9.0
5	36		1 %	5∕8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0

COUNTY:

R3-4

STANDARD SIGN R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

8/10 PLATE NO. R3-4.11

DATE12/08/10

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R34.DGN

PROJECT NO:

HWY:

PLOT DATE: 08-DEC-2010 15:34

PLOT NAME :

PLOT BY: dotsja

PLOT SCALE: 5.959043:1.000000

<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 - See detail Message - White - Type H Reflective

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

Whi te Red White R5-1

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2S	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
3	36		2 1/4		6	5	7 1/2	2 ½	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 %	14 1/2	23 ½	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

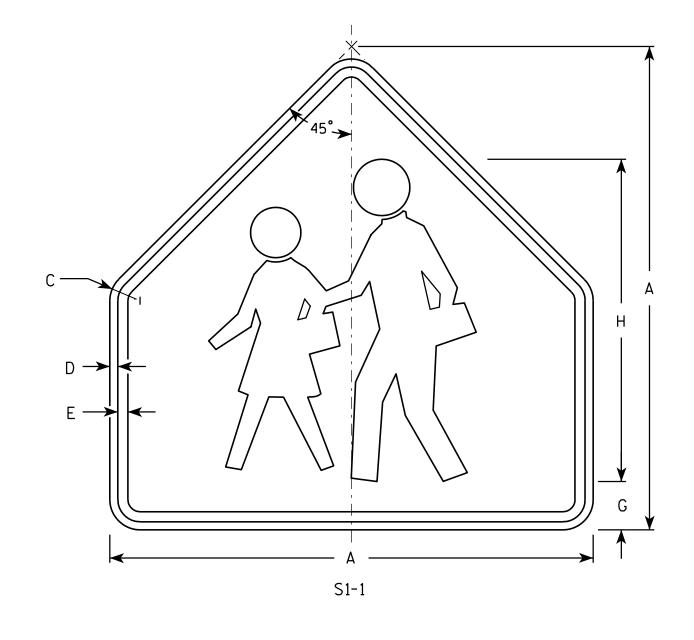
DATE 12/17/10 PLATE NO. R5-1.15

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :



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

Background - Yellow-Green 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.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Areg sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 %	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	₹4	1		4 3/4	32																			12
5																											

COUNTY:

STANDARD SIGN S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Ter State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S11.DGN

PROJECT NO:

HWY:

PLOT DATE: 26-MAY-2010 16:12

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 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-Green 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.
- 4. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

E-	
	B
	Y
✓ H	
S16-7L	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	٥	R	S	Т	U	٧	w	X	Y	Z	Areo sq. ft.
1	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
25	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30 °	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

COUNTY:

STANDARD SIGN S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch

For State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

SHEET NO:

FILE NAME: C:\CAEFiles\Projects\tr_stdplate\S167.dgn

HWY:

PROJECT NO:

PLOT DATE: 19-AUG-2013 14:55

PLOT BY: mscj9h

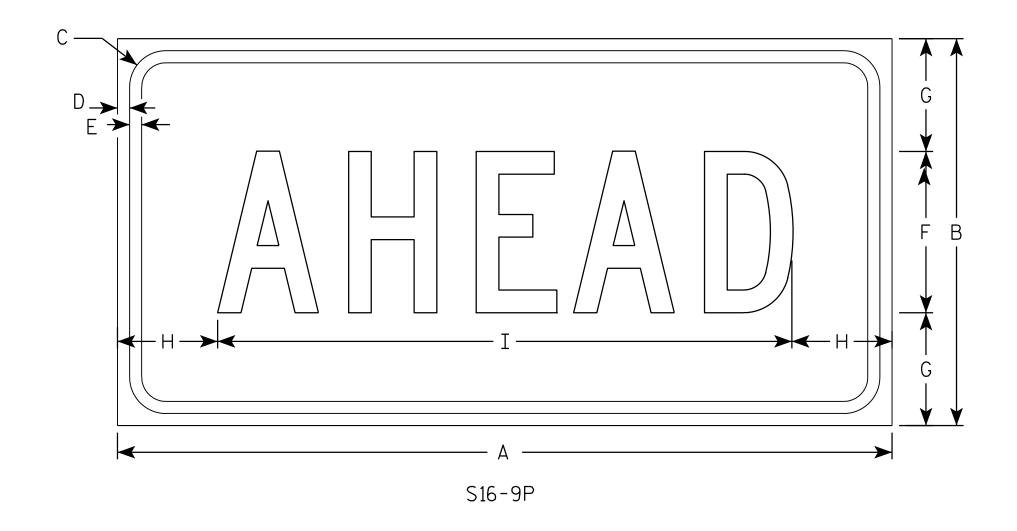
PLOT NAME :

PLOT SCALE: 3.969517:1.000000

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

Background - Yellow-Green Message - Black

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



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
25	30	18	1 1/8	3∕8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

COUNTY:

STANDARD SIGN S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

/ED

Matthew Rauch

For State Traffic Engineer

DATE 7/22/13

PLATE NO. S16-9P.1

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :

- 1. Sign is Type II reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
- 2. Color:

Background - See note 5 Message - Black

- 3. Message Series See note 6
- 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. Top panel (SCHOOL) background Yellow Green -Type F Reflective. Lower panel background - White -Type H Reflective.
- 6. From top to bottom: Lines 1, 5, 6 & 7 are series D Lines 2,3 & 4 are series E
- 7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE					
1					
2	600	mm	X	1200	mm
3	900	mm	X	1800	mm
4					
5					

PROJECT NO:

С D Ε 2 1 3/8 1 1/4 | 3 3/4 | 9 1/8 | 10 1/4 | 9 5/8 | 7 1/8 | 7 5/8 | 3 1/2 | 3 3/8 | 6 5/8 | 6 3/8 | 9 1/4 | 9 3/8 24 1/2 5/8 8.00 0.72 48 3 36 2 1/4 ₹4 5 1/2 15 1/4 14 1/2 11 1/4 11 1/2 5 1/2 5 3/4 14 1/8 18.00 1.62 72 15 4 5

STANDARD SIGN S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Racel DATE 4/26/10 PLATE NO. 54-51.9

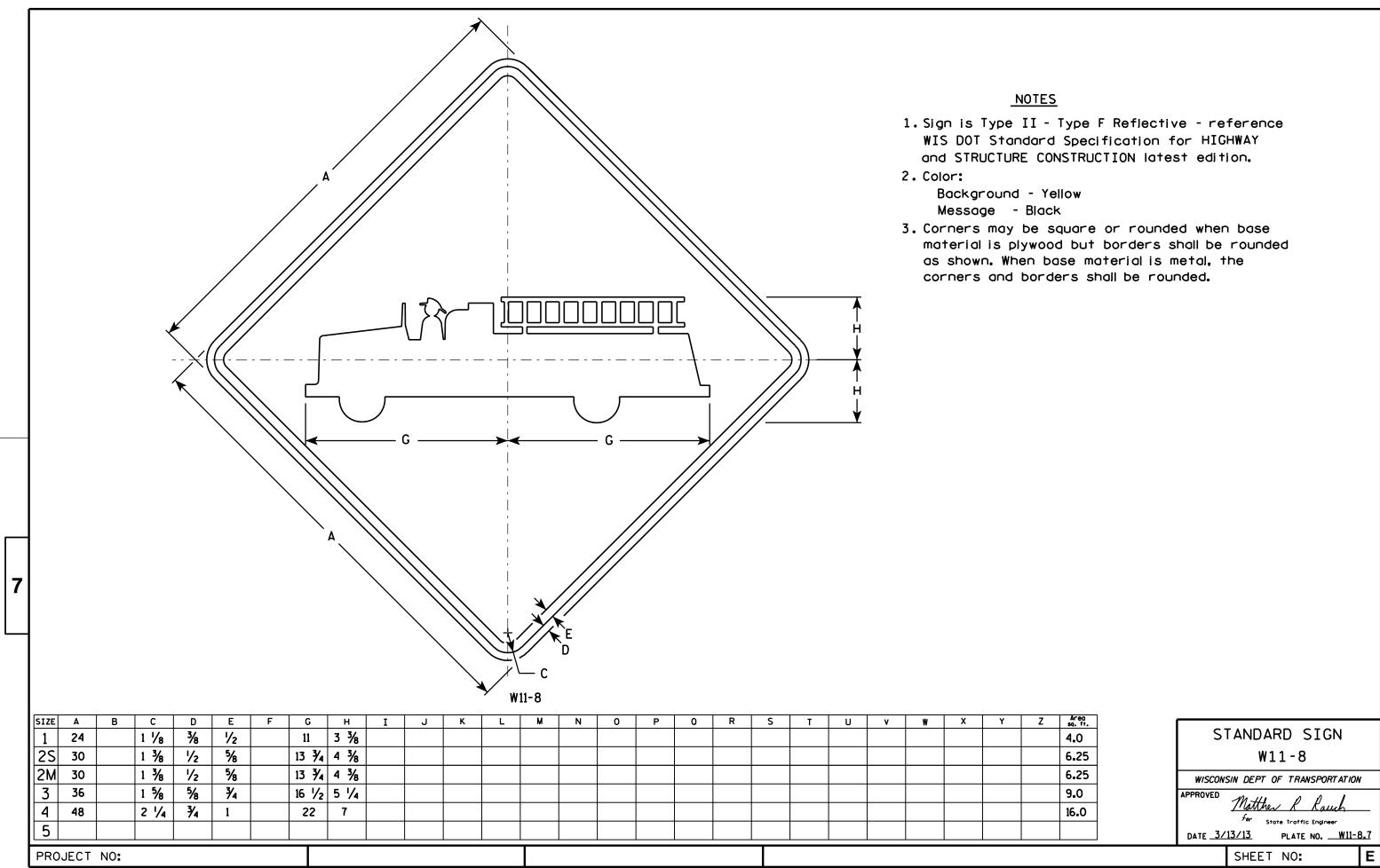
SHEET NO:

HWY:

COUNTY:

PLOT NAME :

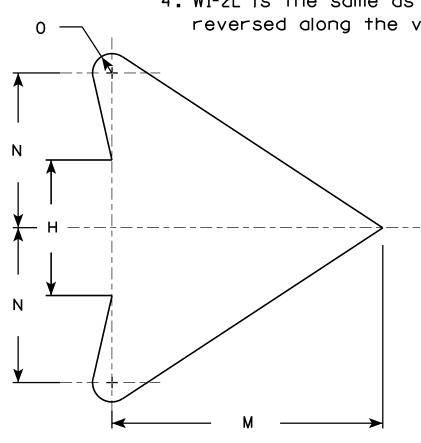
PLOT SCALE: 7.945391:1.000000



- 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.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW	DETAIL

								W:	1-2R															<u> </u>	<u>-</u>		
SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	v	W	x	Y	Z	Areo sq. ft.
1	24		1 1/8	3⁄8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 1/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	₹4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

DATE <u>5/15/12</u>

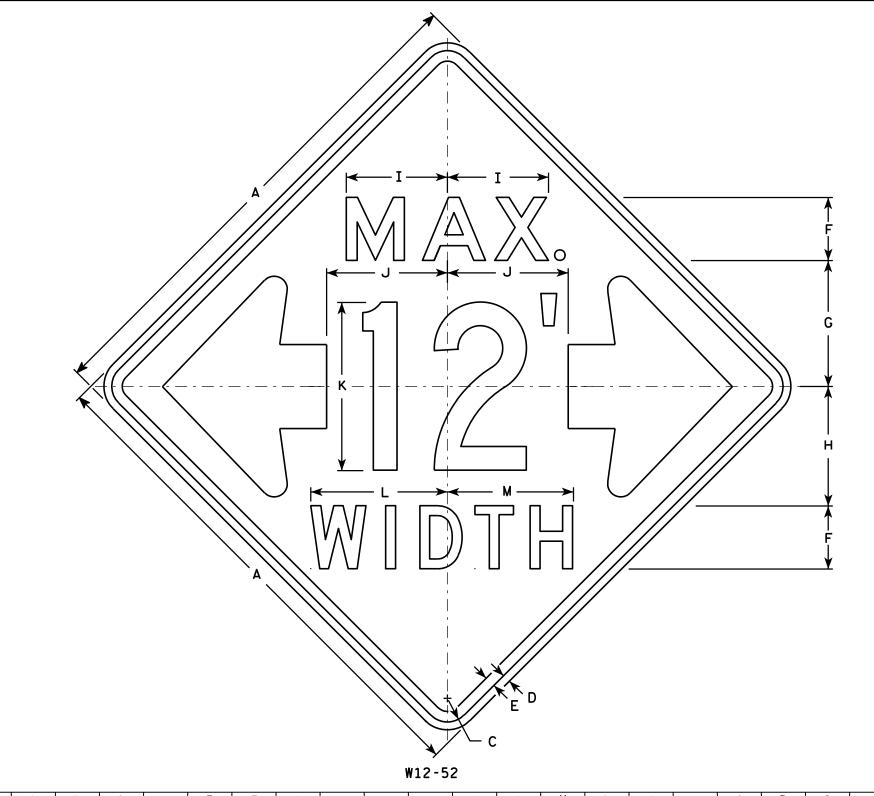
PLATE NO. W1-2.10

SHEET NO:

PROJECT NO:

← H →

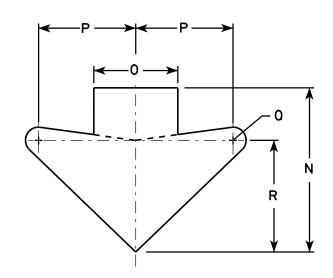
HWY:



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

Background - Orange Message - Black

- 3. Message Series See note 5
- 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 top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN

PROJECT NO:

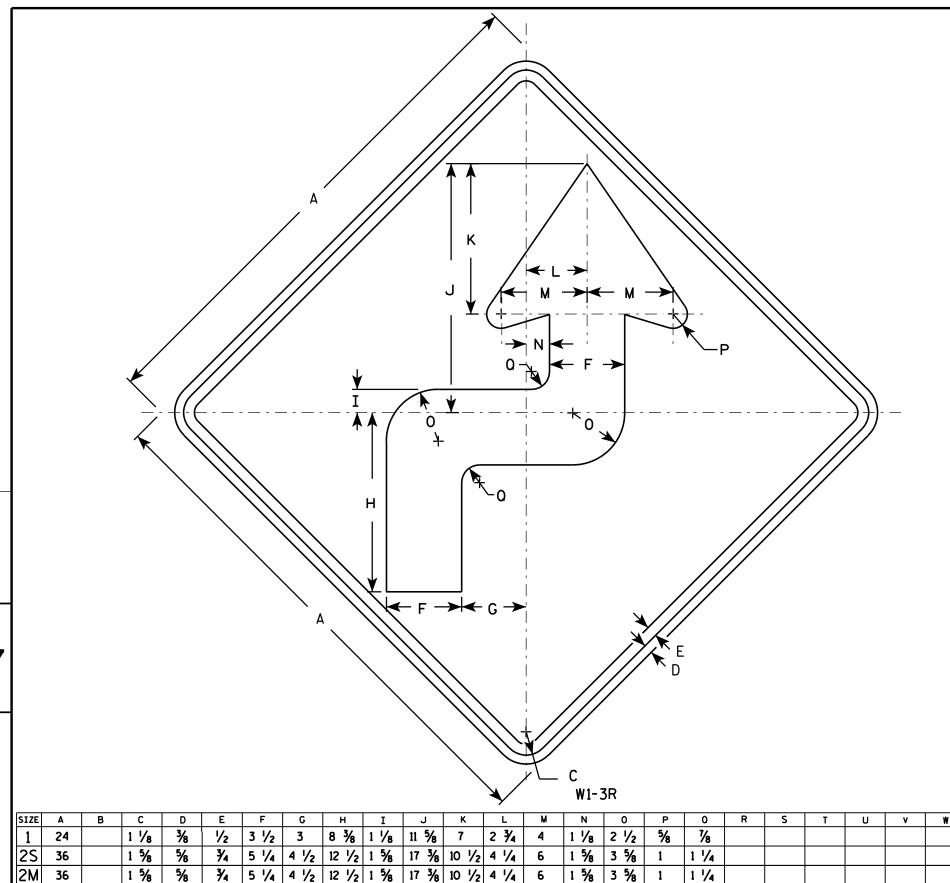
HWY:

PLOT DATE: 16-MAR-2011 14:45

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.137199:1.000000



<u>NOTES</u>

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-3L is the same as W1-3R except the arrow is reversed along the vertical centerline.

4.0 9.0 9.0 3/4 5 1/4 4 1/2 12 1/2 1 3/8 17 3/8 10 1/2 4 1/4 3 36 1 1/8 1 % 3 % | 9.0 4 36 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 6 1 % 3 % 9.0 1 1/8 5 48 2 1/4 3/4 16 5/8 2 1/4 23 1/4 14 5 5/8 8 | 2 1/8 | 4 7/8 | 1 1/4 | 1 5/8

COUNTY:

STANDARD SIGN W1-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raw

For State Traffic Engineer

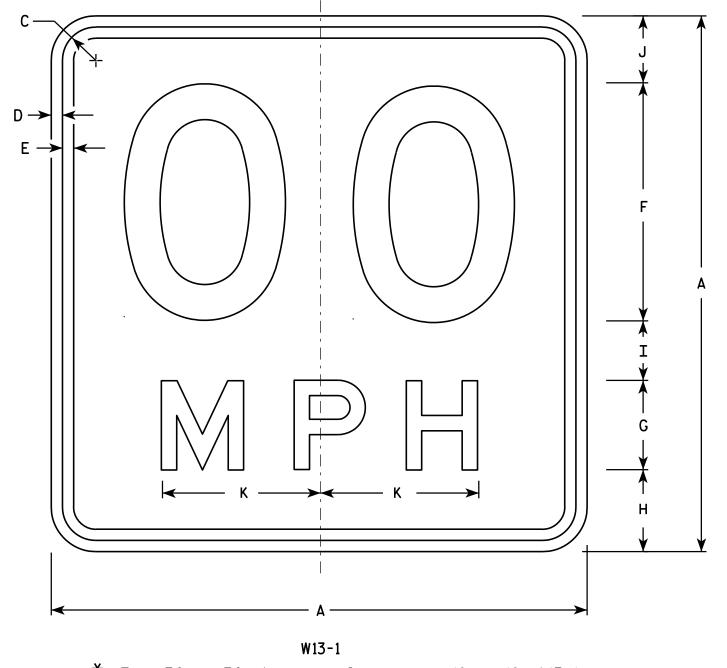
DATE 5/17/12 PLATE NO. W1-3.8

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :



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

Background - Yellow Message - Black

- 3. Message Series See Note 6
- 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. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

* For 30" \times 30" Warning Signs, use 18" \times 18" W13-1 signs. For 36" \times 36" Warning Signs, use 24" \times 24" W13-1 signs.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 %	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew N

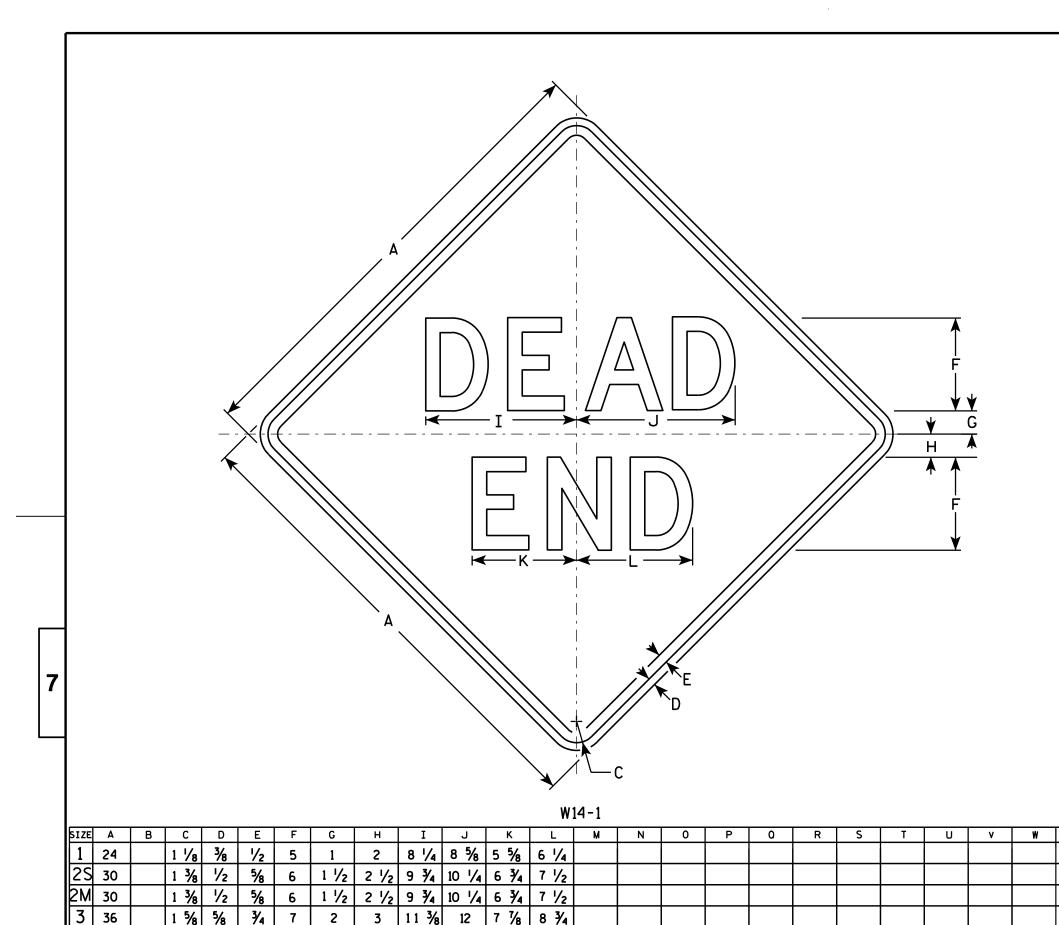
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

SHEET NO:

PLOT BY: mscsja

PLOT NAME :



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

Background - Yellow Message - Black

3. Message Series - D

Z

PLOT NAME :

4.0

6.25

6.25

9.0

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.

WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

W14-1

APPROVED

Matther R Rauch

PLATE NO. W14-1.7 DATE 3/13/13

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W141.DGN

HWY:

PROJECT NO:

PLOT DATE: 13-MAR-2013 13:30

COUNTY:

PLOT BY: mscj9h

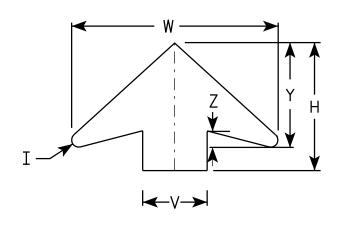
PLOT SCALE: 6.202372:1.000000

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

 Background YELLOW*

 Message BLACK
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3∕8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 ¾	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	%	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	1 / ₈	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 5/29/12 PLATE NO. W3-5.5

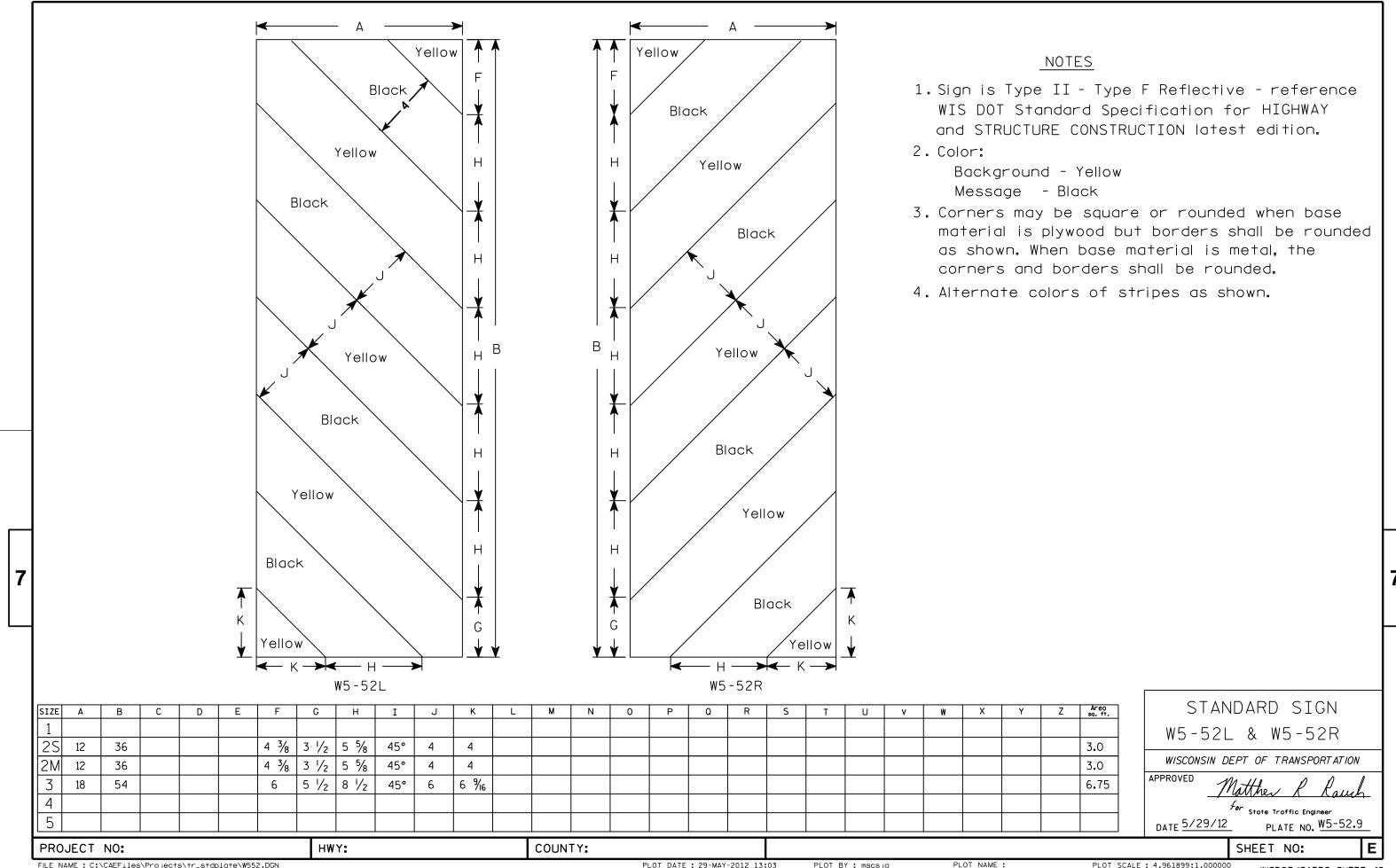
SHEET NO:

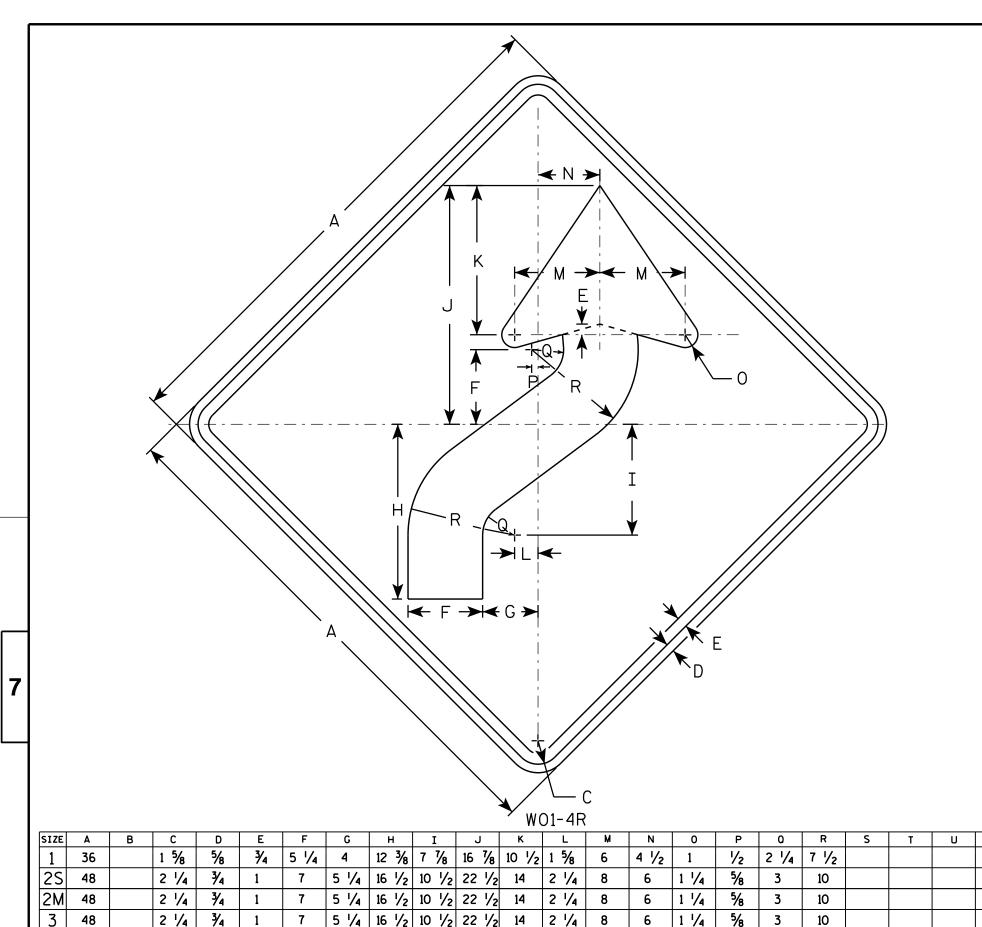
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W35.DGN

PROJECT NO:

PLOT DATE: 29-MAY-2012 10:52

PLOT BY: mscsja





5 1/4 16 1/2 10 1/2 22 1/2 14

5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

2 1/4

NOTES

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

Background - Orange 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.
- 4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

9.0 16.0 16.0 16.0 16.0 STANDARD SIGN W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN

48

48

PROJECT NO:

2 1/4 3/4

2 1/4 | 3/4

PLOT DATE : 28-FEB-2014 11:35

10

1 1/4

1 1/4

COUNTY:

5/8

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

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

Background - Orange 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.

	G
	_ ¥ B
W01-6	₩

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areg sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN

HWY:

PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000

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

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

W057-52

* See note 5

SIZE	Α	В		С	D	E	F	G	Н	I	J	К	L	M	N	0	Ρ	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
1	36	24	4 1	1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	13													6.0
2S	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
2M	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
3	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
4	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	30	5 1	3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/20/13

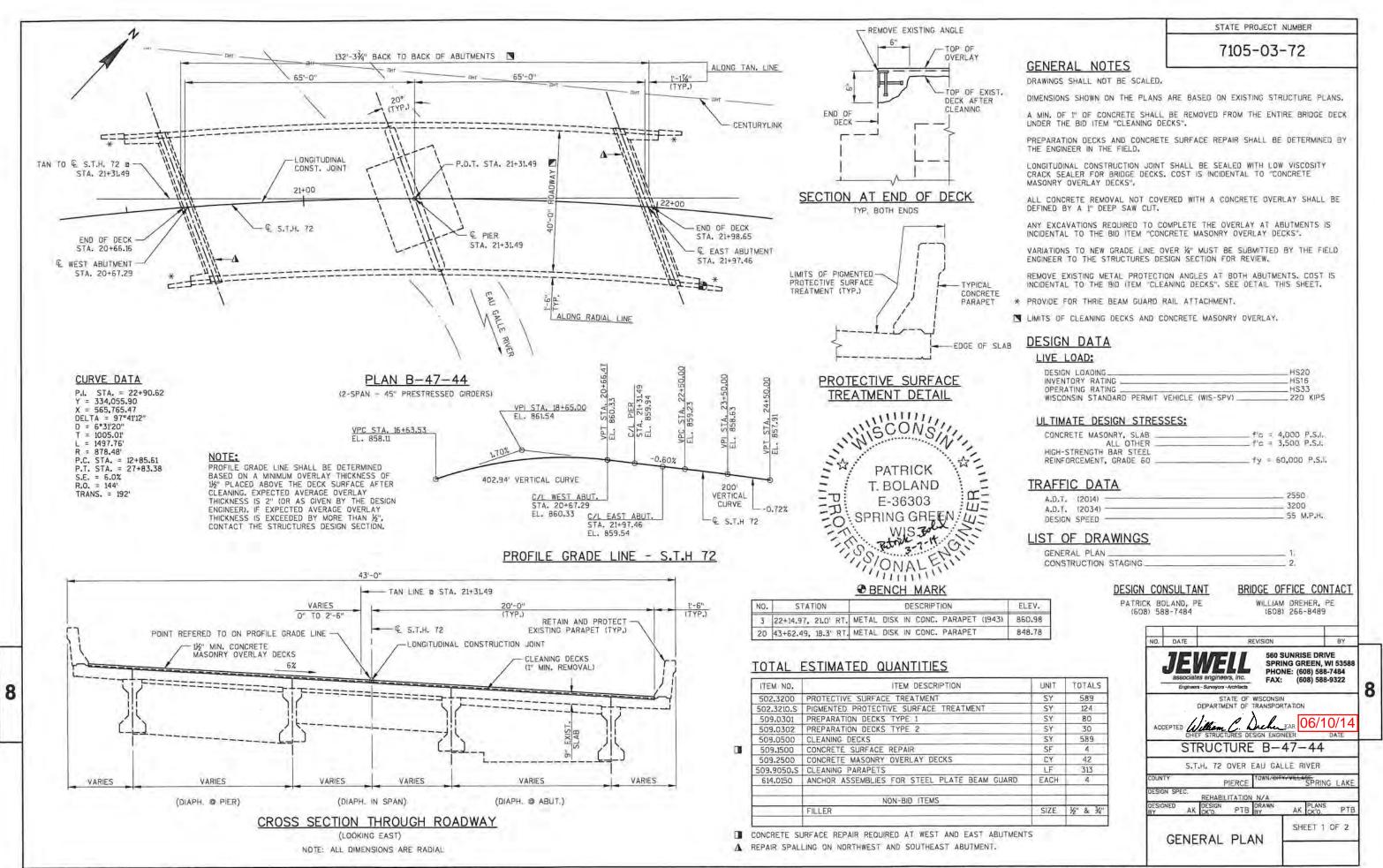
SHEET NO:

HWY:

PROJECT NO:

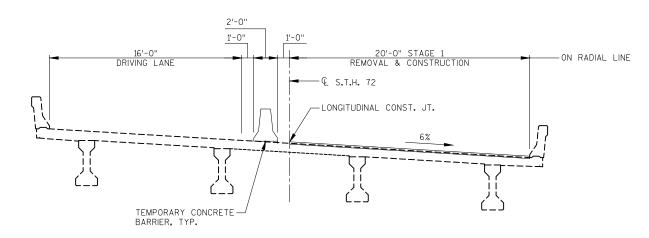
PLOT BY: mscj9h

PLATE NO. W057-52.1

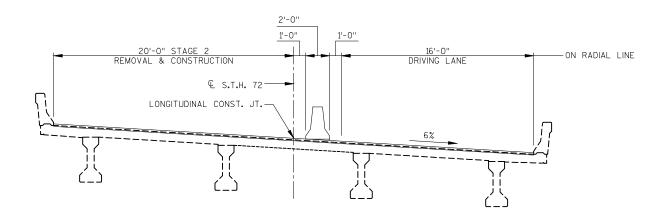


STATE PROJECT NUMBER

7105-03-72



STAGE 1 - CROSS SECTION THRU ROADWAY (LOOKING NORTHEAST)



STAGE 2 - CROSS SECTION THRU ROADWAY (LOOKING NORTHEAST)

NO. DATE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-47-44

8

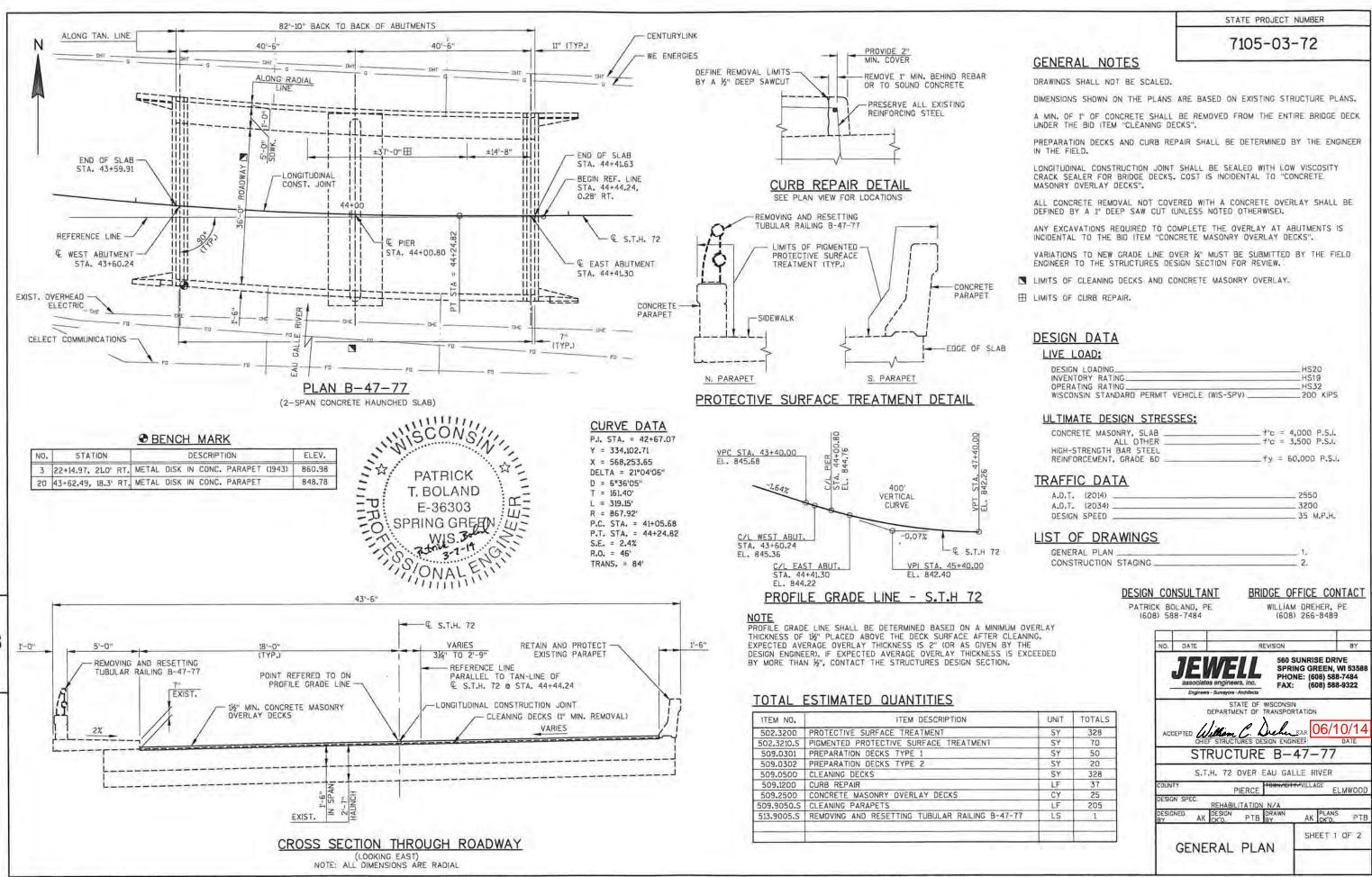
SHEET 2 OF 2 CONSTRUCTION STAGING

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3/3/2014 11: 37: 05 AM

PLOT BY: BOLAND, PATRICK

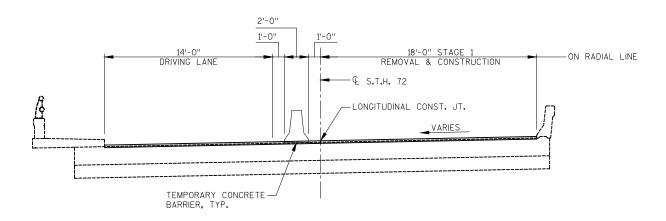
8



8

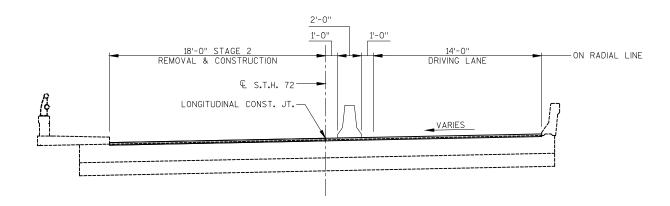
STATE PROJECT NUMBER

7105-03-72



STAGE 1 - CROSS SECTION THRU ROADWAY

(LOOKING NORTHEAST)



STAGE 2 - CROSS SECTION THRU ROADWAY

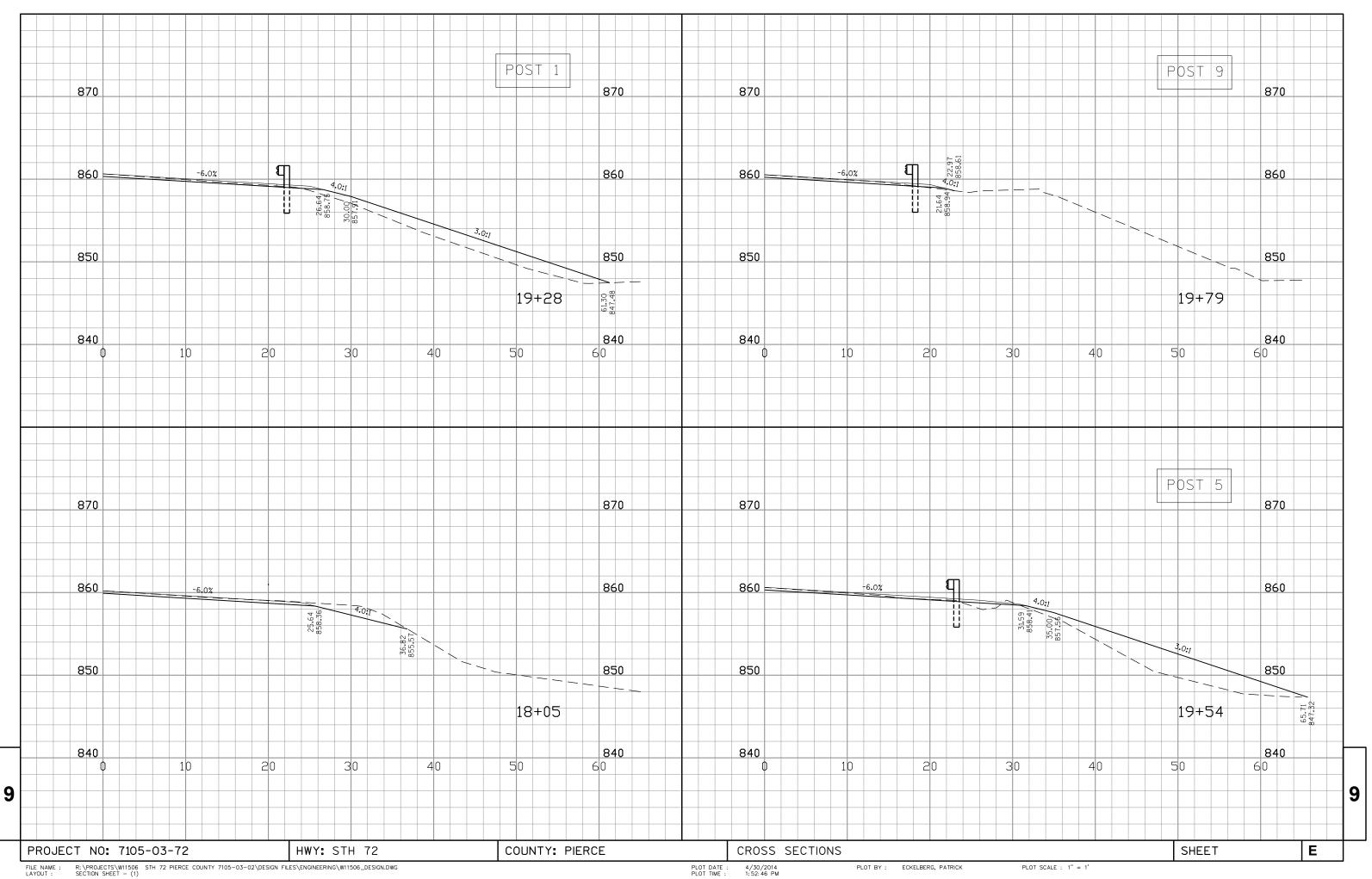
(LOOKING NORTHEAST)

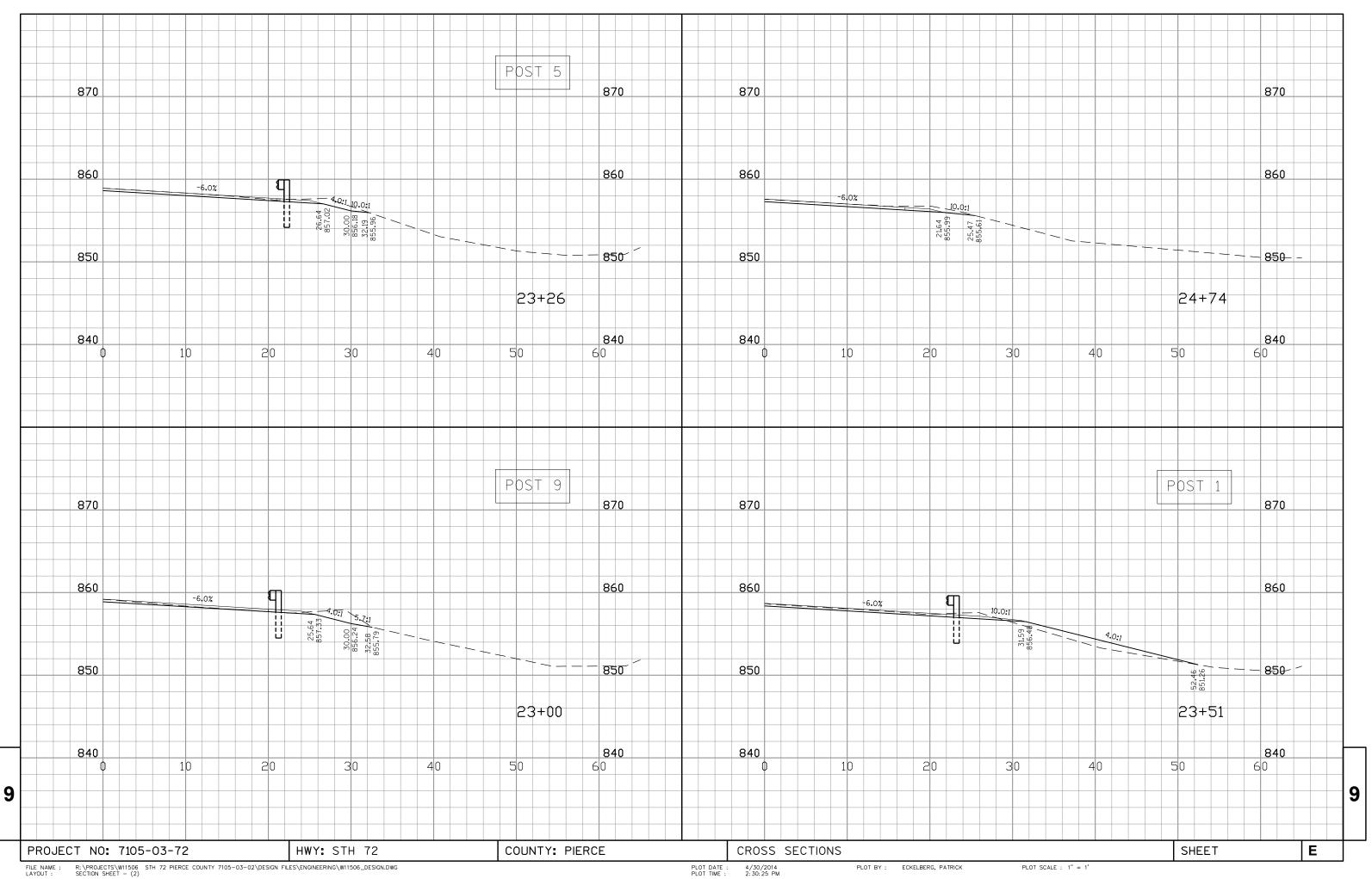
NO. DATE REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-47-77 SHEET 2 OF 2 CONSTRUCTION STAGING

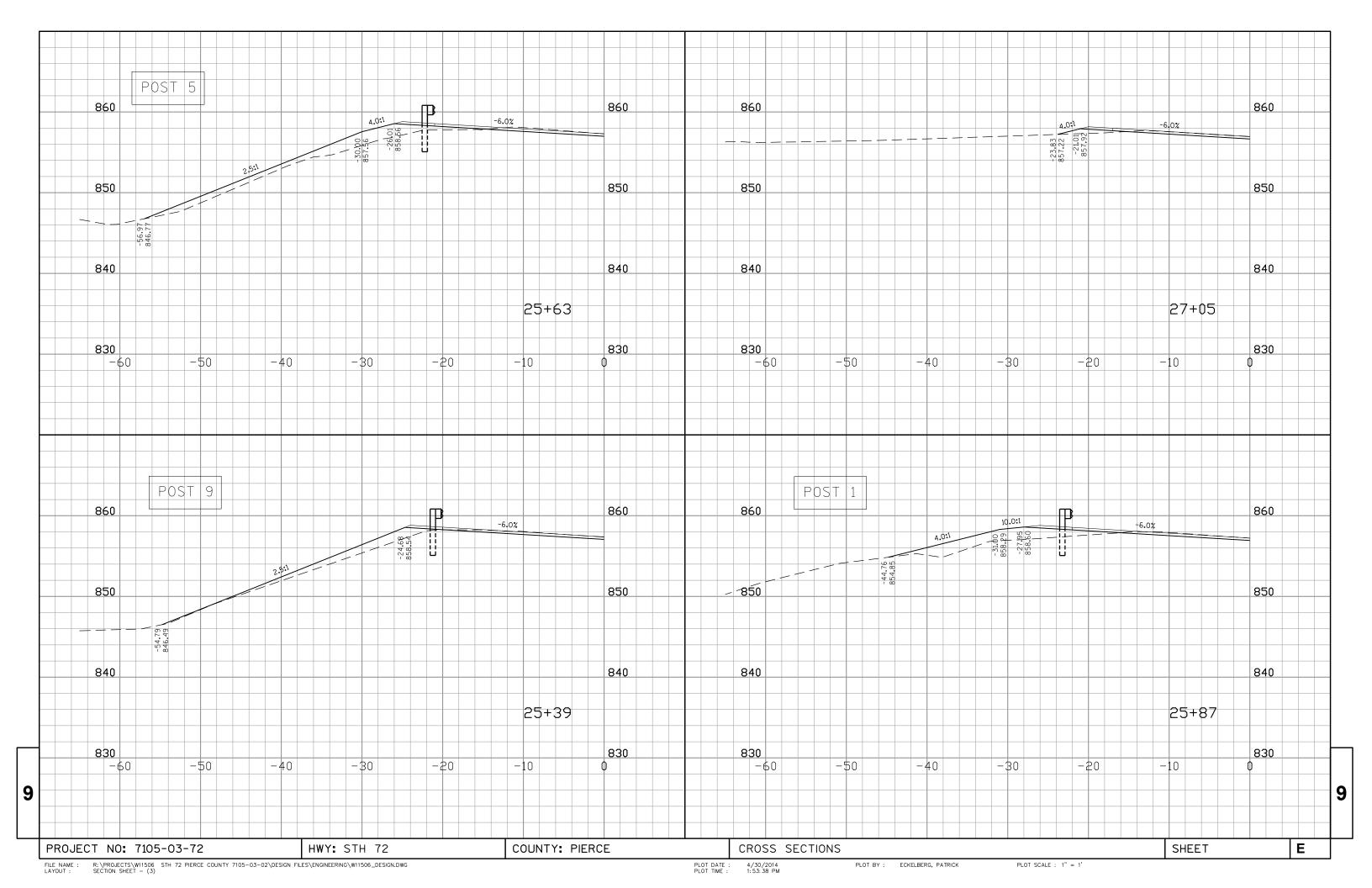
8

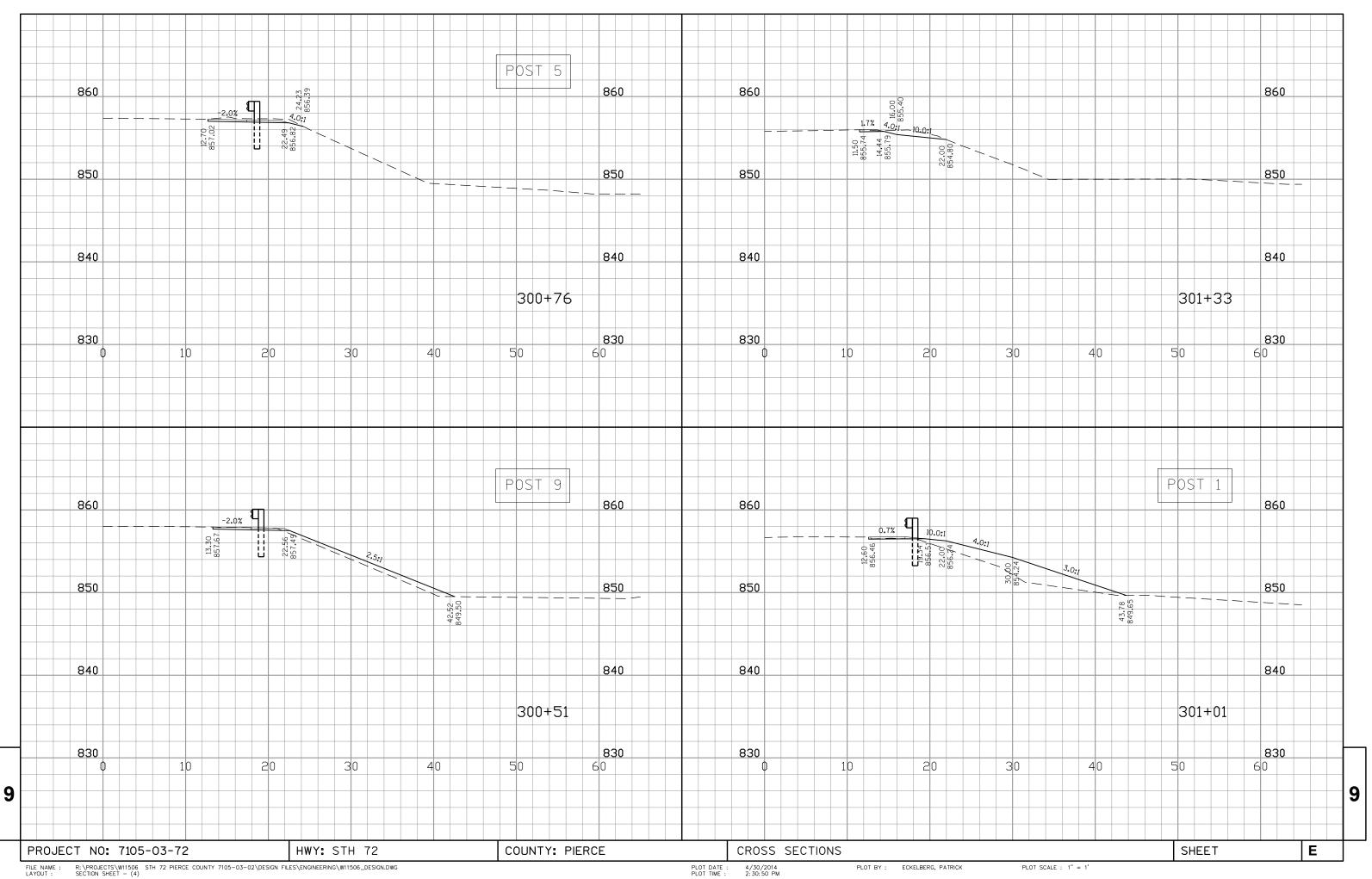
R:\PROJECTS\W11506 STH 72 PIERCE COUNTY 7105-03-02\CADD FILES\PRODUCTION DRAWINGS\STRUCTURE\FINALS\W11506_B-47-77_02_STAGE.DWG LAYOUT PLOT BY: BOLAND, PATRICK PLOT SCALE : 1'-0" = 1'-0"

8











Wisconsin Department of Transportation

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