

RHI
PROJECT ID: 9532-02-71
WITH: 1053-10-63, 6524-02-60

COUNTY: SHAWANO

SEP 2013

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plot
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 96

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREVENTATIVE MAINTENANCE PROJECT

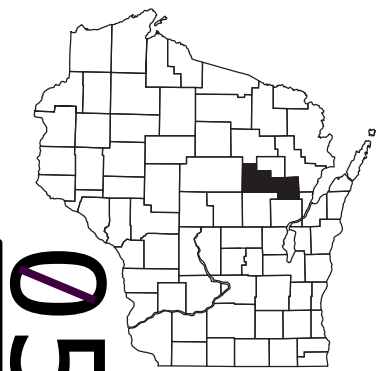
ANGELICA-SHAWANO SHAWANO-GREEN BAY ANGELICA-PULASKI
CTH S TO STH 29 STH 160 WB RAMPS TO EB RAMP STH 29 TO HIGHVIEW ROAD
STH 55 STH 29 STH 160
SHAWANO COUNTY SHAWANO COUNTY SHAWANO COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6524-02-60		
1053-10-63		
9532-02-71		

STATE PROJECT NUMBER
6524-02-60

STATE PROJECT NUMBER
1053-10-63

STATE PROJECT NUMBER
9532-02-71



DESIGN DESIGNATION	STA 15+00 - STA 155+00	STA 155+00 - STA 169+00
A.A.D.T. 2015	= 3000	3000
A.A.D.T. 2035	= 4000	4000
D.H.V.	= 15.4	15.4
D.D.	= 62/38	62/38
T.	= 19.0%	19.0%
DESIGN SPEED	= 60 MPH	45 MPH
ESALS	= 1,051,200	1,051,200

CONVENTIONAL SYMBOLS

- PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS
- MARSH AREA
- WOODED OR SHRUB AREA

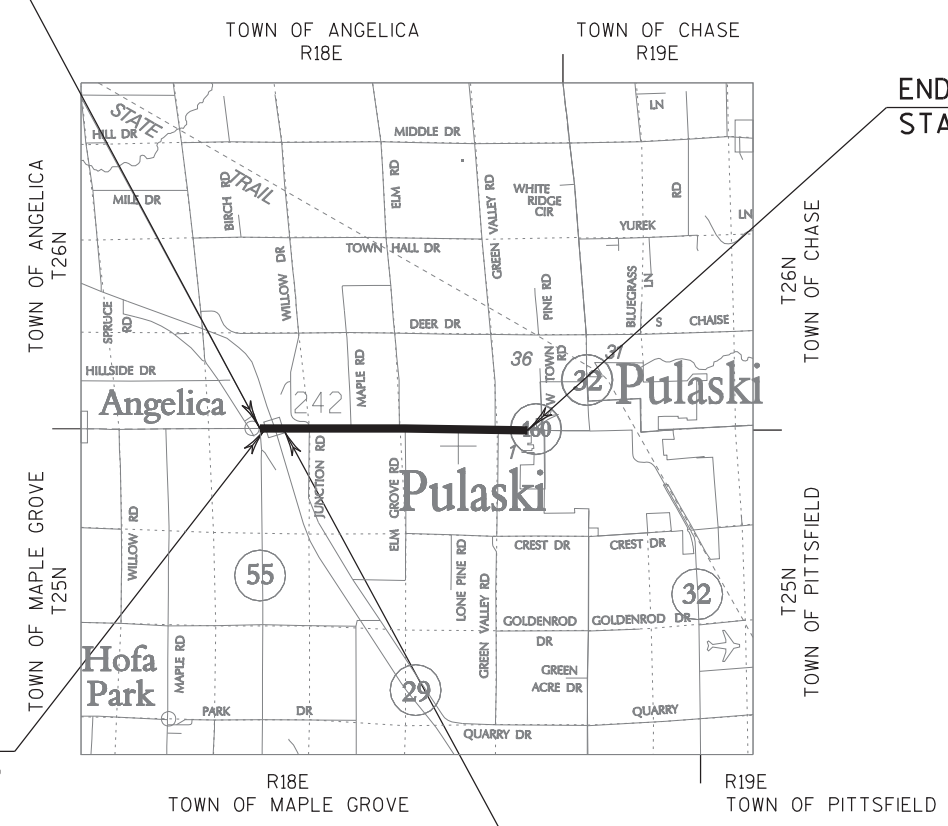
- UTILITIES
- ELECTRIC
- FIBER OPTIC
- GAS
- SANITARY SEWER
- STORM SEWER
- TELEPHONE
- WATER
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

BEGIN PROJECT 6524-02-60
STA. 12+00
X = 936952
Y = 232636

END PROJECT 6524-02-60
BEGIN PROJECT 1053-10-63
STA. 20+90

END PROJECT 1053-10-63
BEGIN PROJECT 9532-02-71
STA. 27+45

END PROJECT 9532-02-71
STA. 164+38

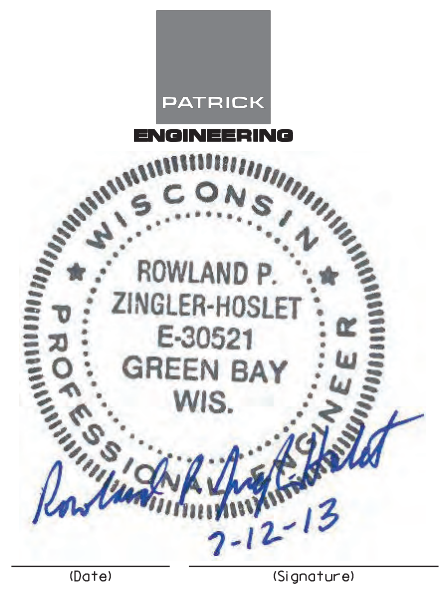


LAYOUT
SCALE 0 1 MI.

NET LENGTH OF CENTERLINE 6524-02-60 = 0.169 MI.
NET LENGTH OF CENTERLINE 1053-10-63 = 0.124 MI.
NET LENGTH OF CENTERLINE 9532-02-71 = 2.593 MI.
TOTAL NET LENGTH OF CENTERLINE = 2.886 MI.

-COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SHAWANO COUNTY.

ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	
Designer	PATRICK ENGINEERING INC.
Project Manager	PATRICK ENGINEERING INC.
Regional Examiner	CHERYL SIMON
Regional Supervisor	ANNA WISNER
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 7/12/13
(Signature)

UTILITIES

DAN SANDE
WE ENERGIES - ELECTRICITY
333 W EVERETT ST, A299
MILWAUKEE, WI 53203
(414) 221-2336
DAN.SANDE@WE-ENERGIES.COM

DAN SANDE
WE ENERGIES - GAS/PETROLEUM
333 W EVERETT ST, A299
MILWAUKEE, WI 53203
(414) 221-2336
DAN.SANDE@WE-ENERGIES.COM

LAWRENCE HUBER
ANR PIPELINE COMPANY - GAS/PETROLEUM
W3925 PIPELINE LN
EDEN, WI 53019
(920) 477-2235
LAWRENCE.HUBER@TRANSCANADA.COM

DENNIS BAER
NSIGHT-PULASKI
(NE TELE CO. LLC & NET CABLE, INC.)
122 ST AUGUSTIE ST
P.O. BOX 860
PULASKI, WI 54162-0860
(920) 822-8895
DENNIS.BAER@NSIGHT.COM

OTHER CONTACTS

JAMES DOPERALSKI
WISCONSIN DEPT. OF NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313

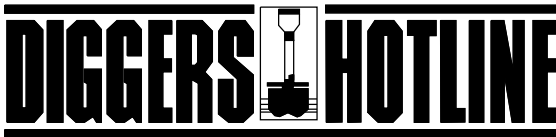
GENERAL NOTES

1.

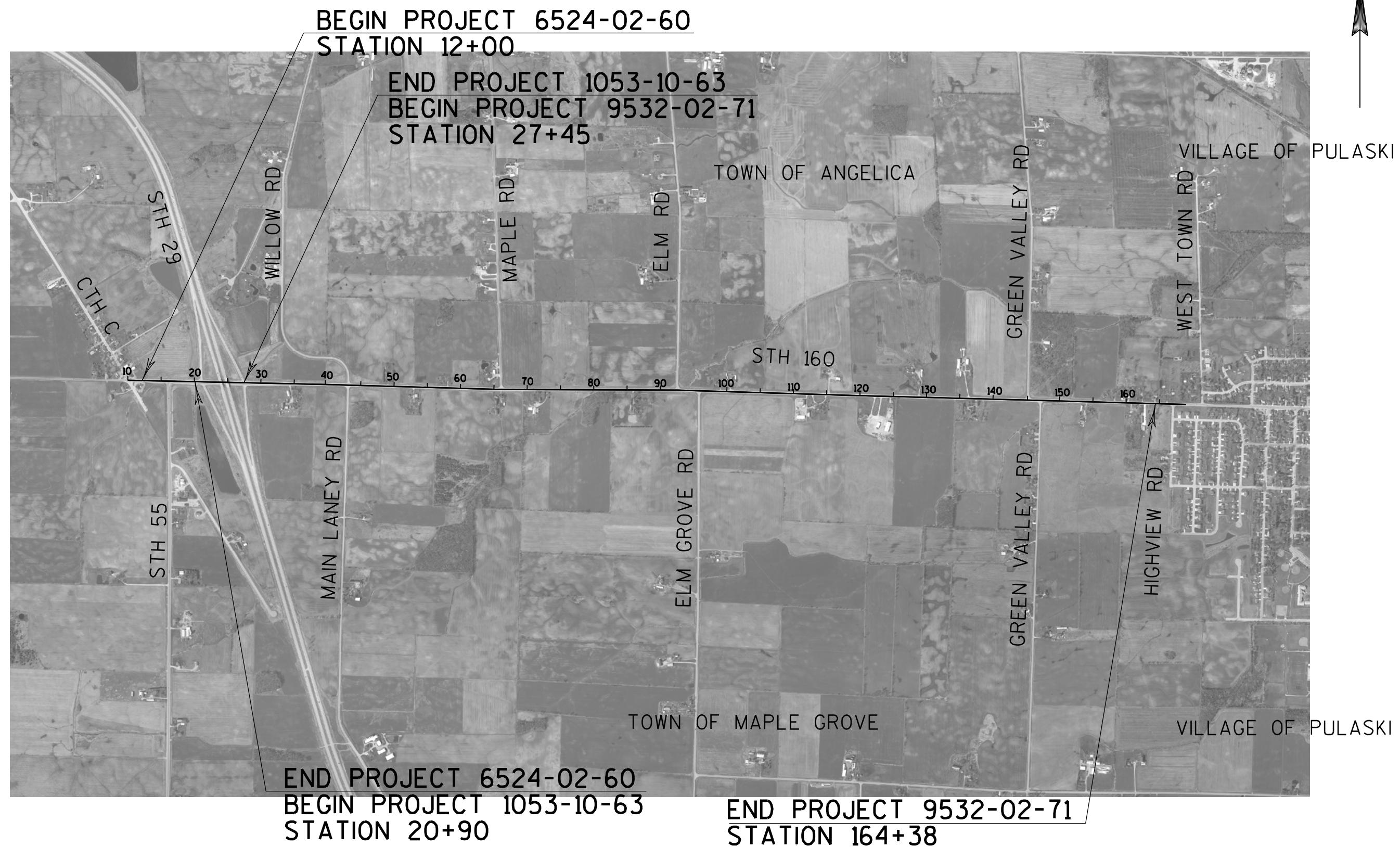
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES NECESSARY TO AVIOD DAMAGE.
2.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITES PRIOR TO THE START OF WORK.
3.

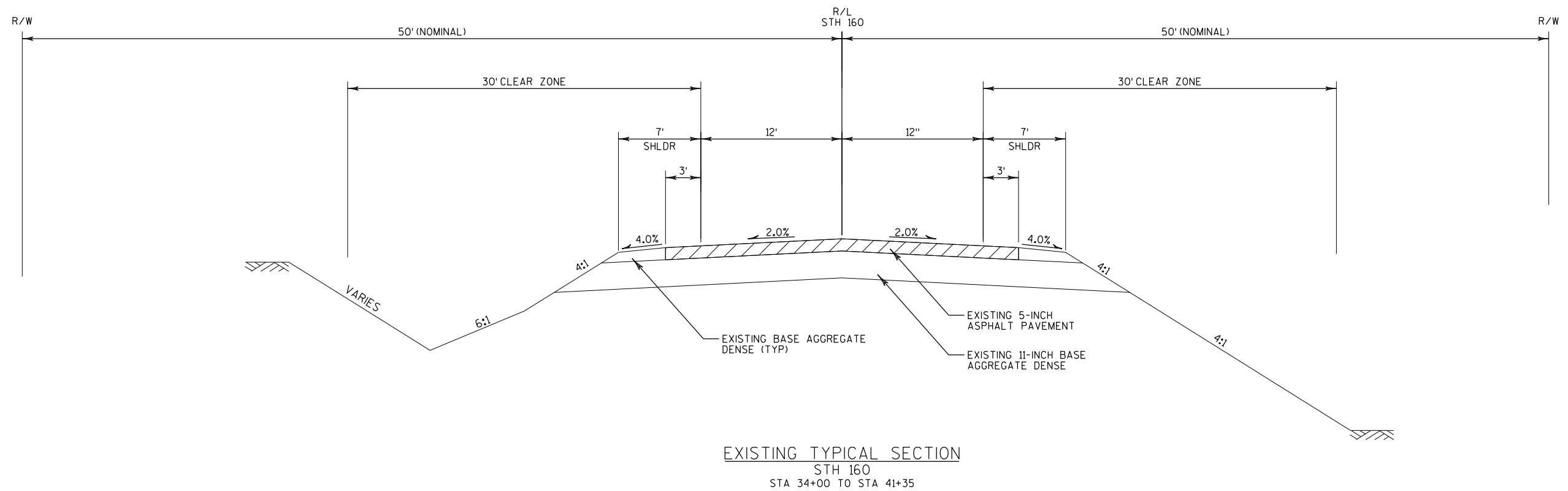
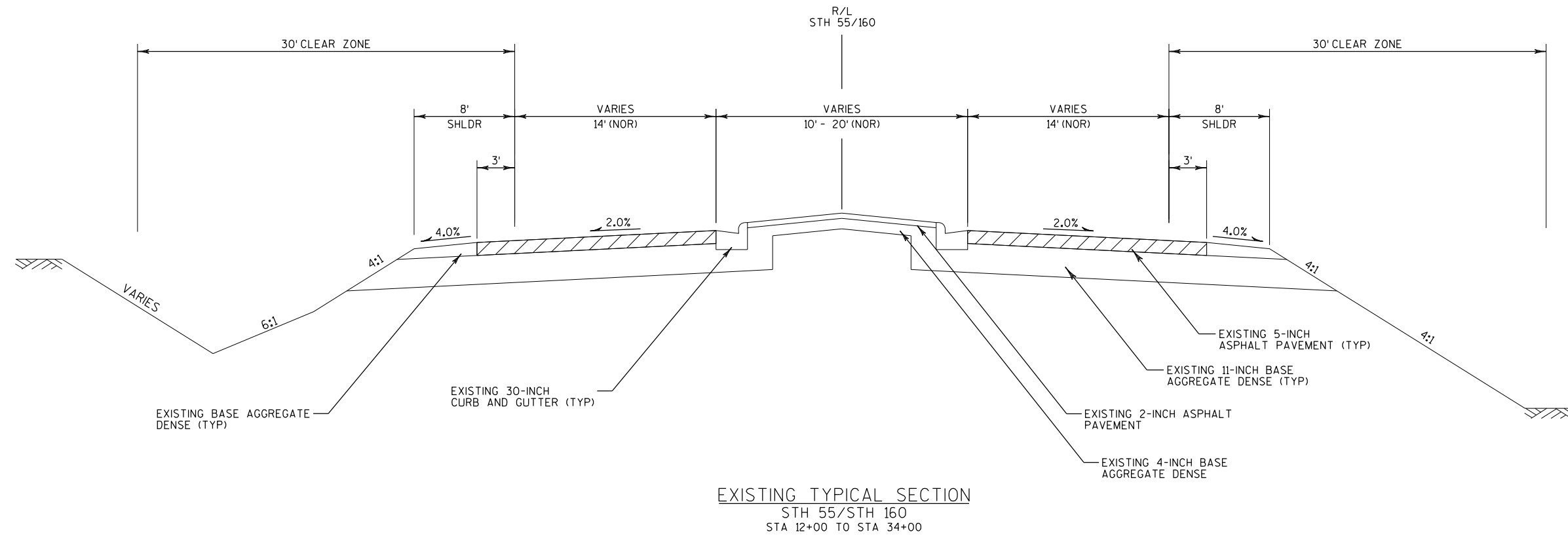
WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE AND HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OF THICKNESS OF THE COURSES SHOWN ON THE PLAN IS APPROXIMATE AND ITS ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIALS AS DIRECTED BY THE ENGINEER.



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Hearing Impaired TDD (800) 542-2289
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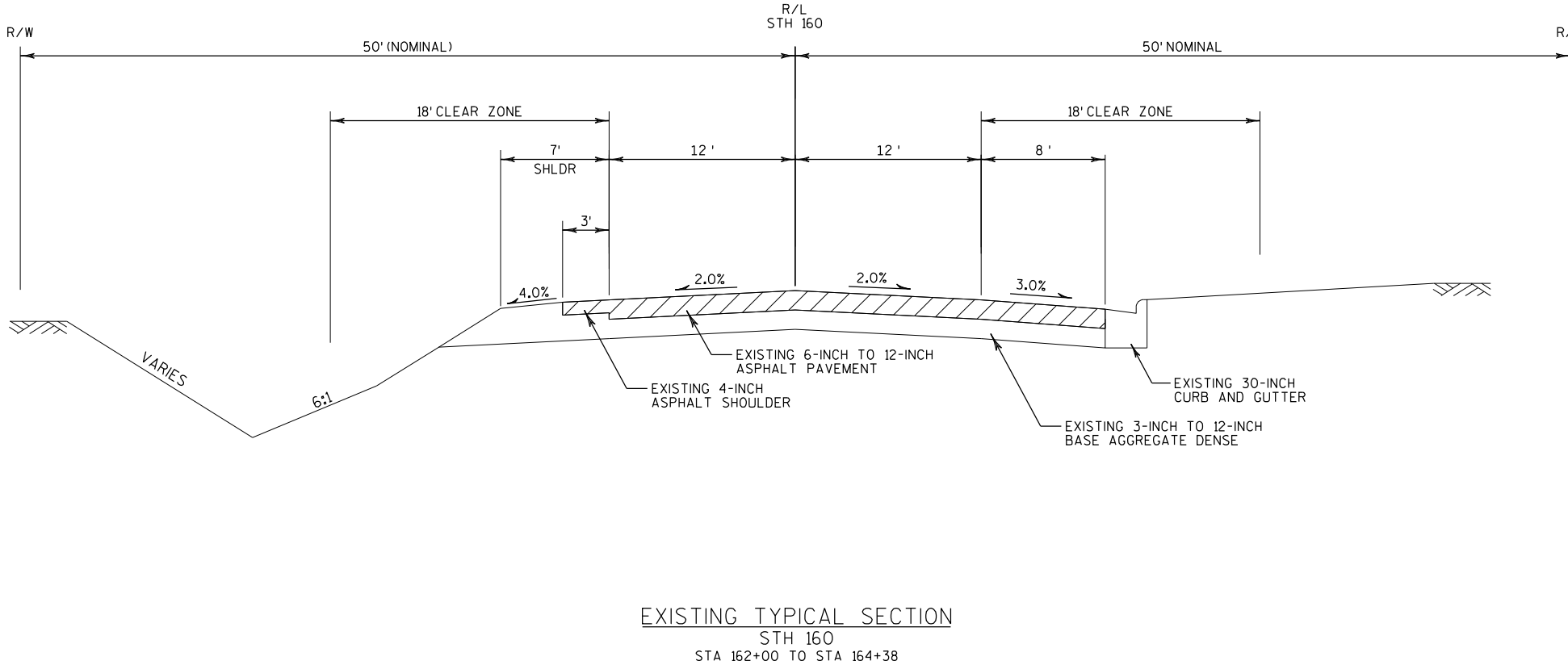
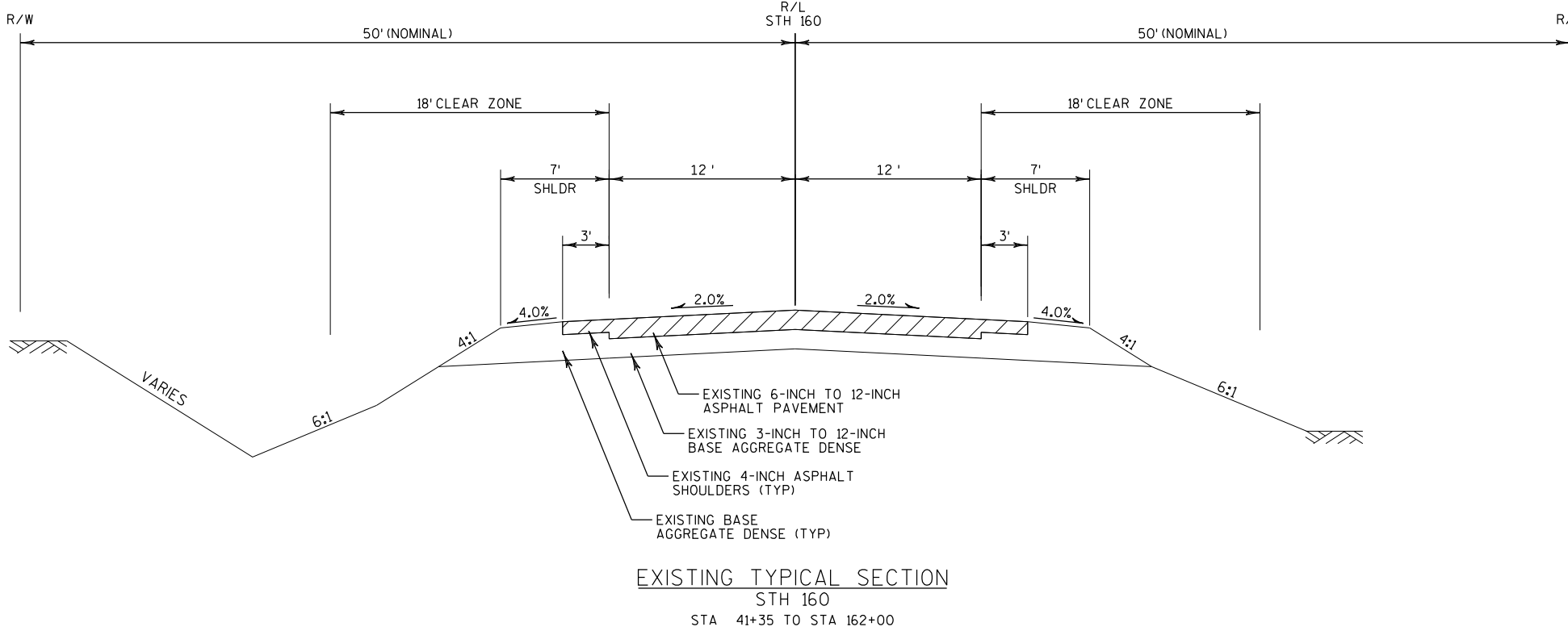


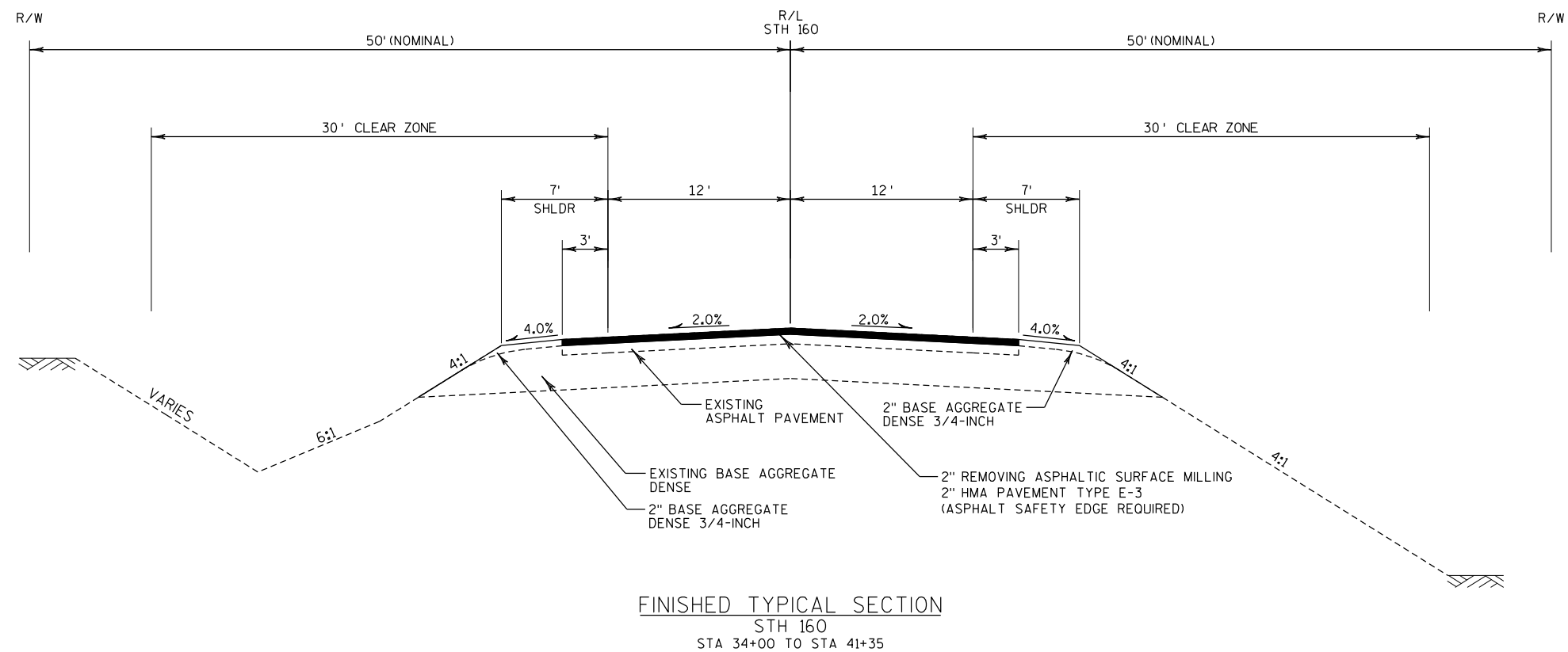
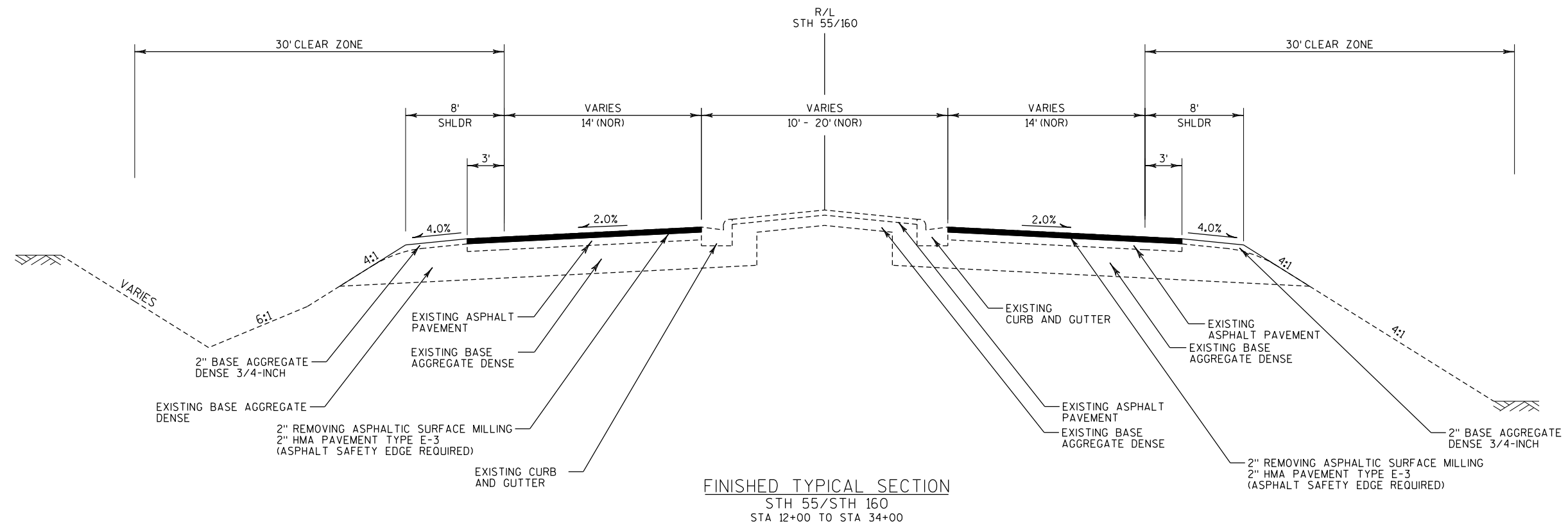
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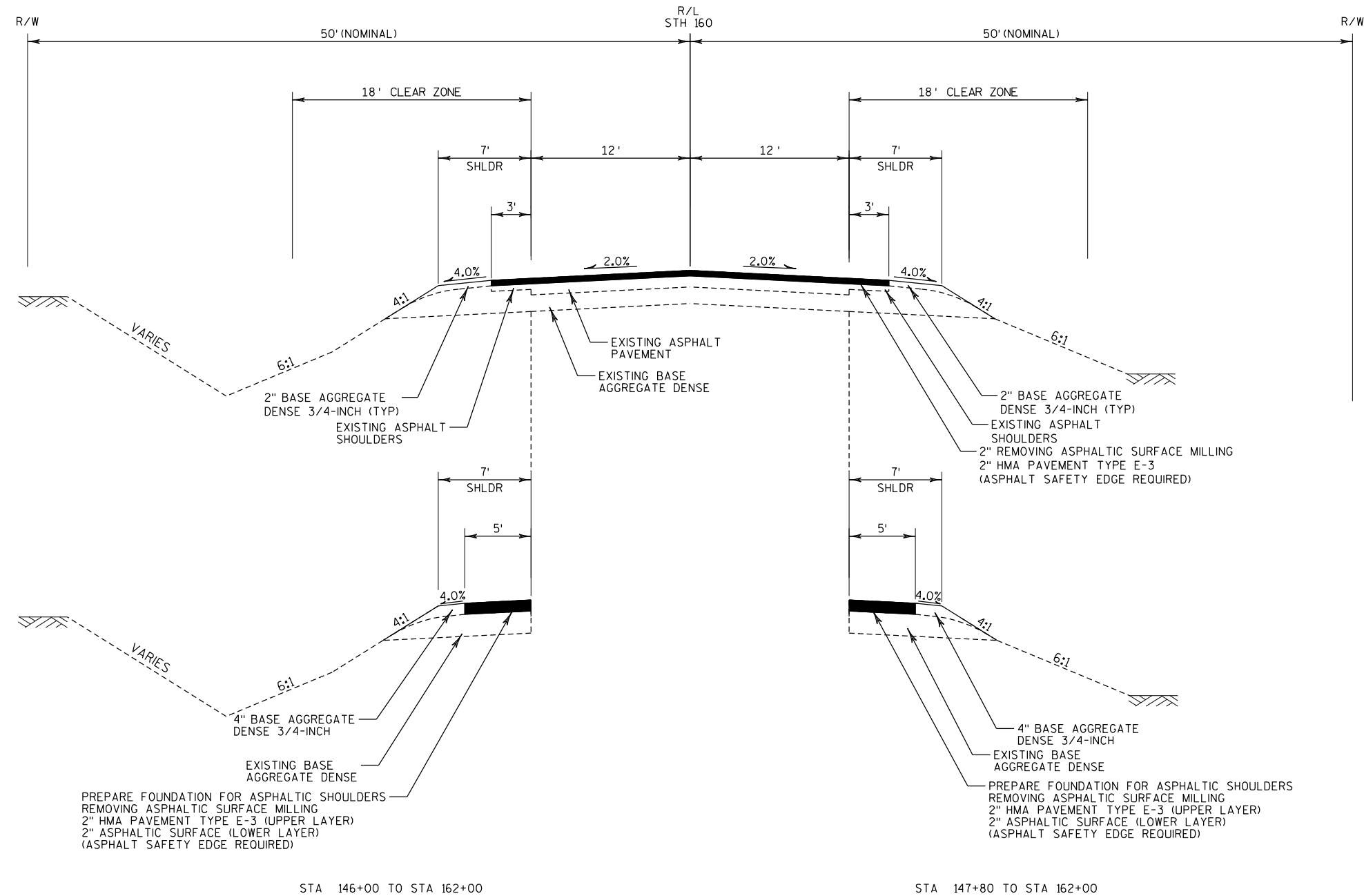


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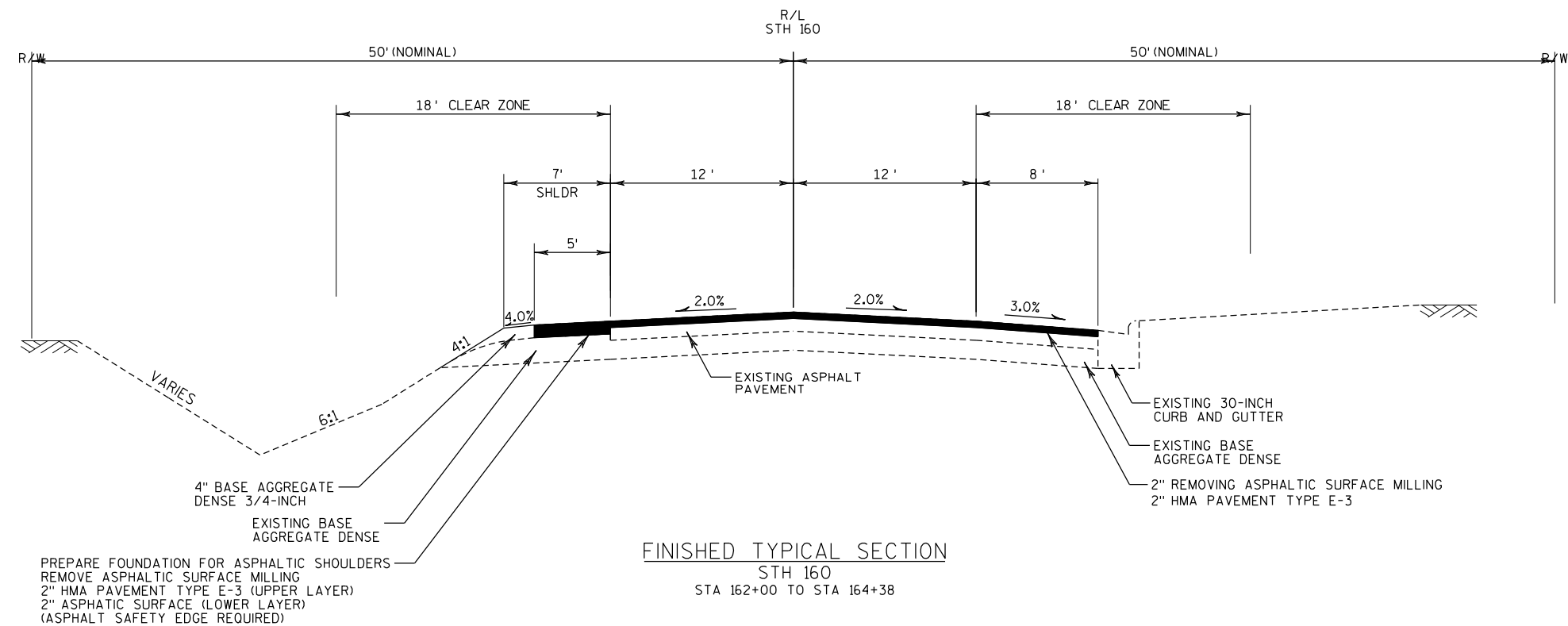
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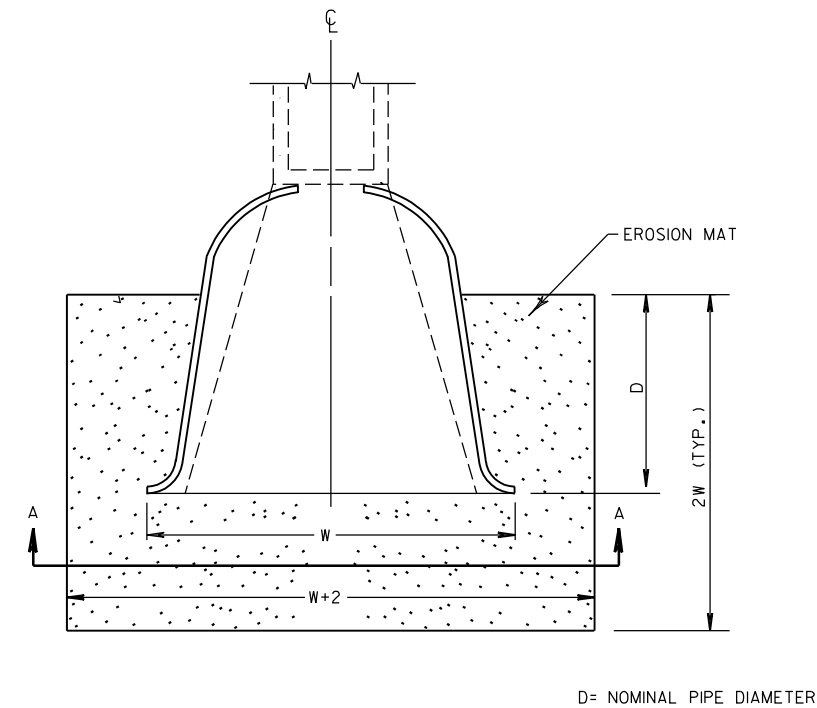
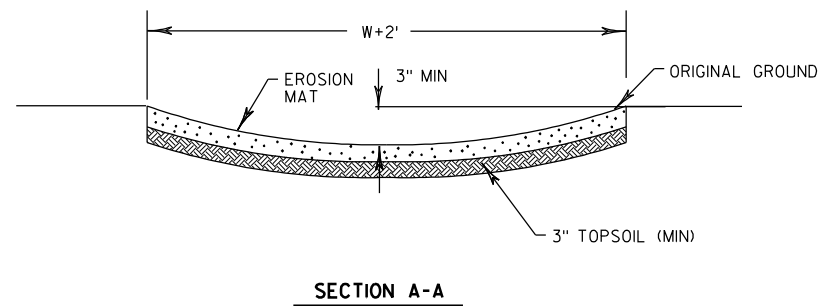
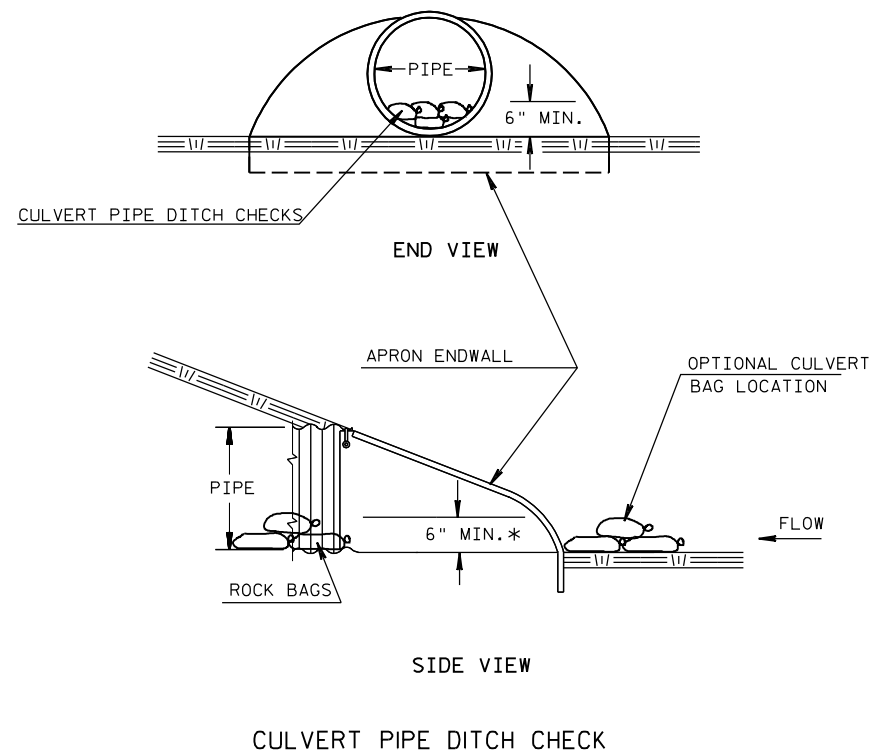




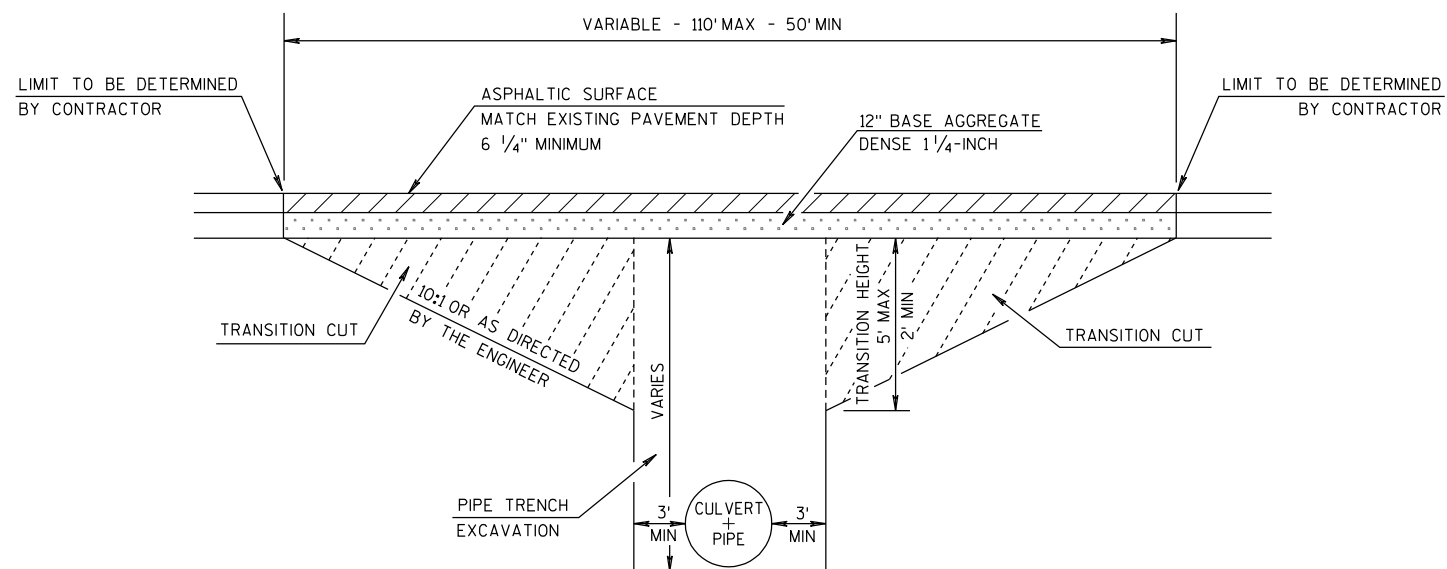


FINISHED TYPICAL SECTION
STH 160
STA 41+35 TO STA 162+00





EROSION MAT AT OUTFALLS



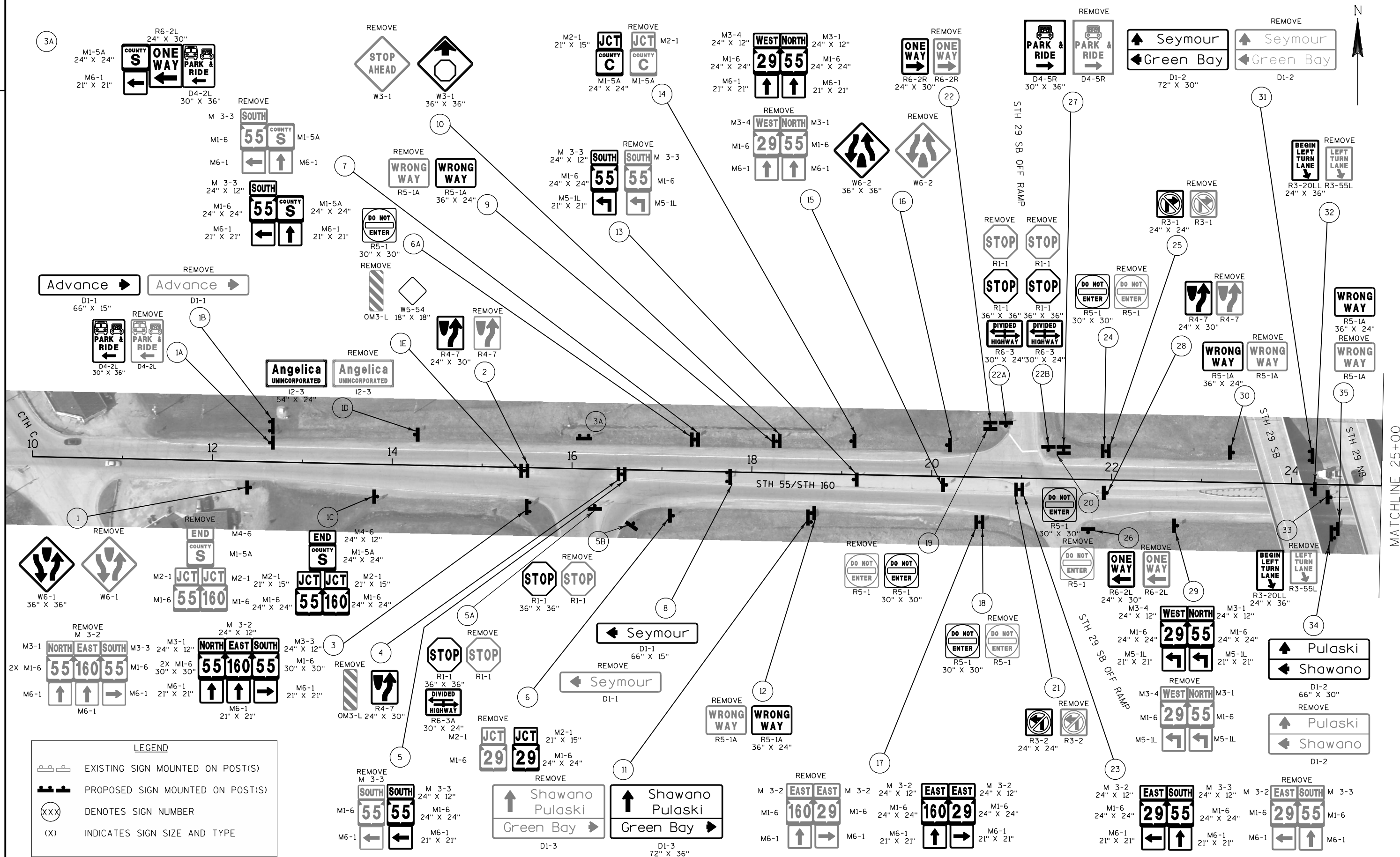
NOTE: MATERIAL REMOVED IN THE TRANSITION CUT AND PIPE TRENCH EXCAVATIONS TO BE REUSED AS BACKFILL UNLESS DETERMINED TO BE UNUSABLE BY THE ENGINEER IN WHICH CASE GRANULAR BACKFILL WILL BE USED.

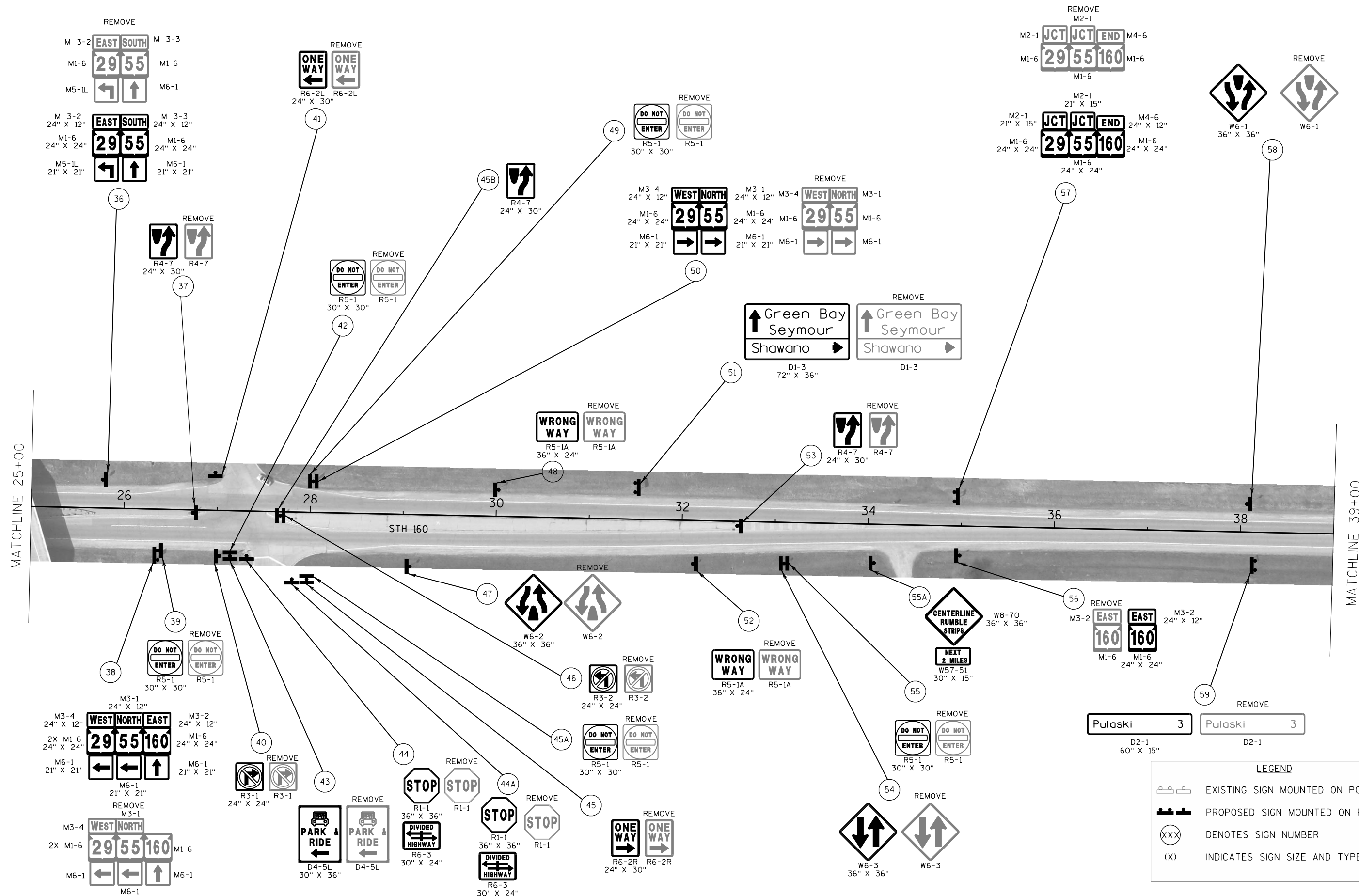
PIPE TRENCH EXCAVATION, EXCLUDING TRANSITION CUT IS CONSIDERED INCIDENTAL TO PIPE INSTALLATION. TRANSITION CUT WILL BE PAID FOR AS COMMON EXCAVATION.

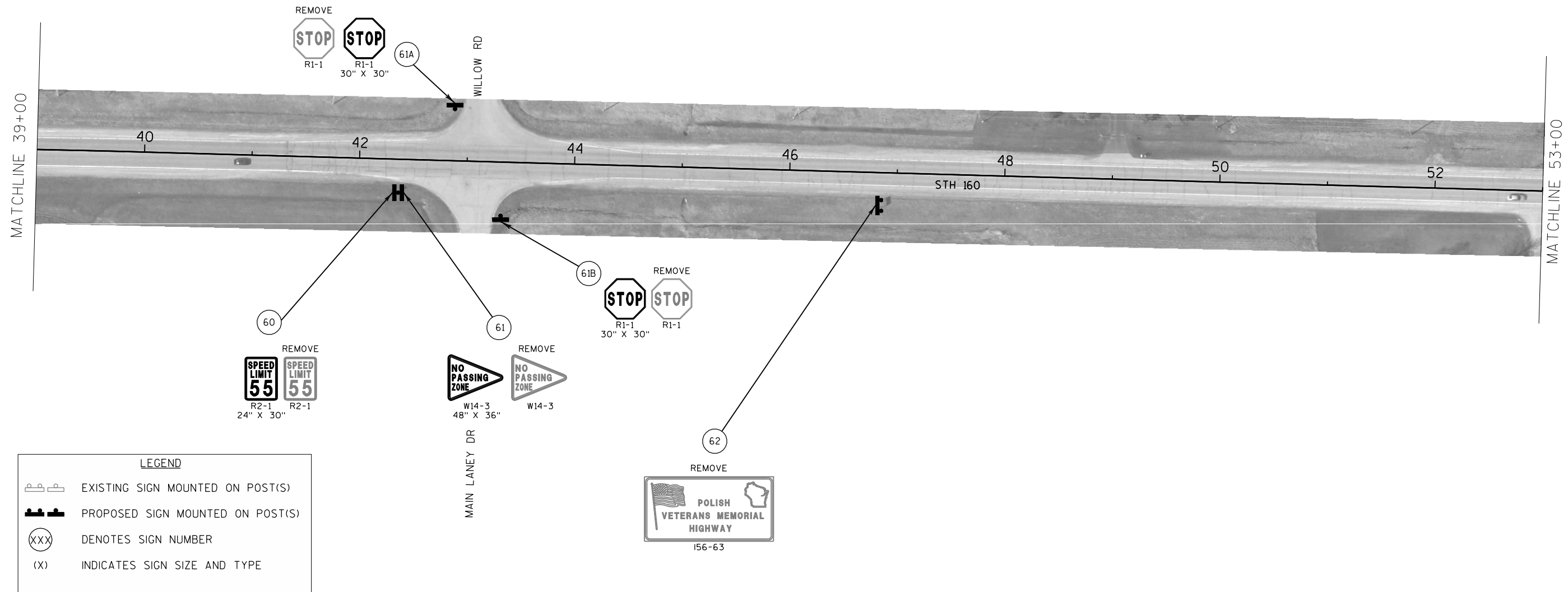
TRANSITION CUT WILL BE 36' WIDE, 18' EACH SIDE OF CENTERLINE.

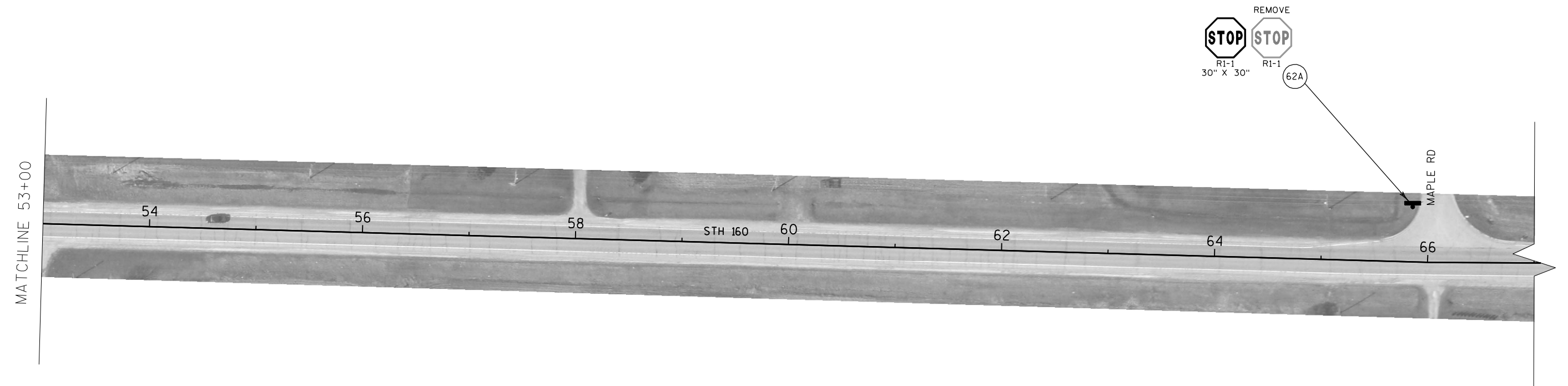
COMPLETE PIPE REPLACEMENT THROUGH ASPHALTIC SURFACE PRIOR TO OVERLAYING EXISTING ASPHALT.

CULVERT PIPE TRANSITION
TO BE COMPLETED AT ALL CULVERT PIPE REPLACEMENT LOCATIONS



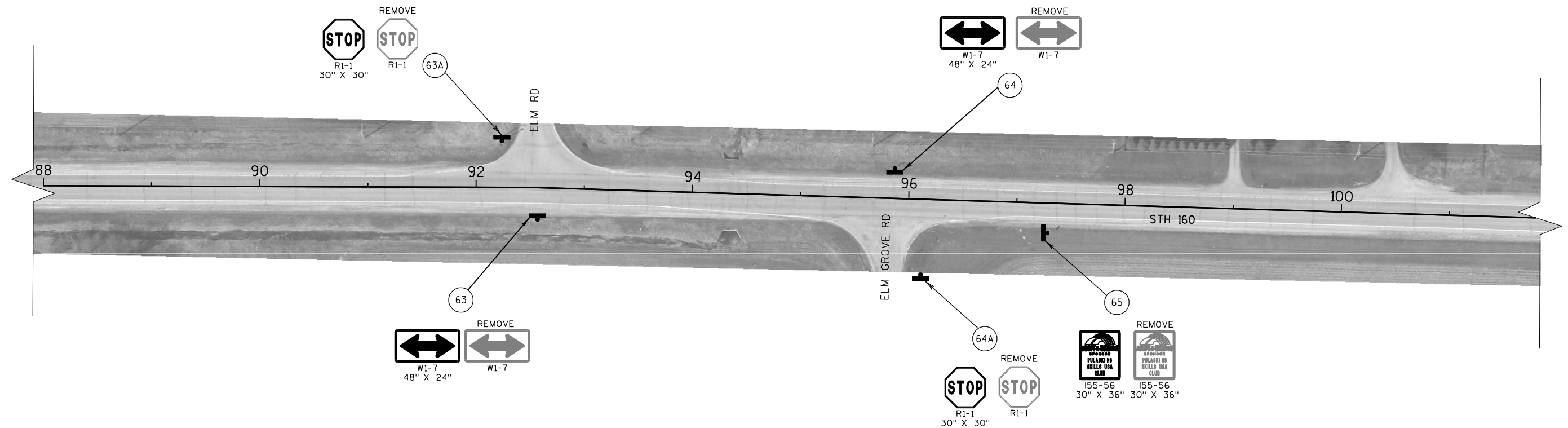






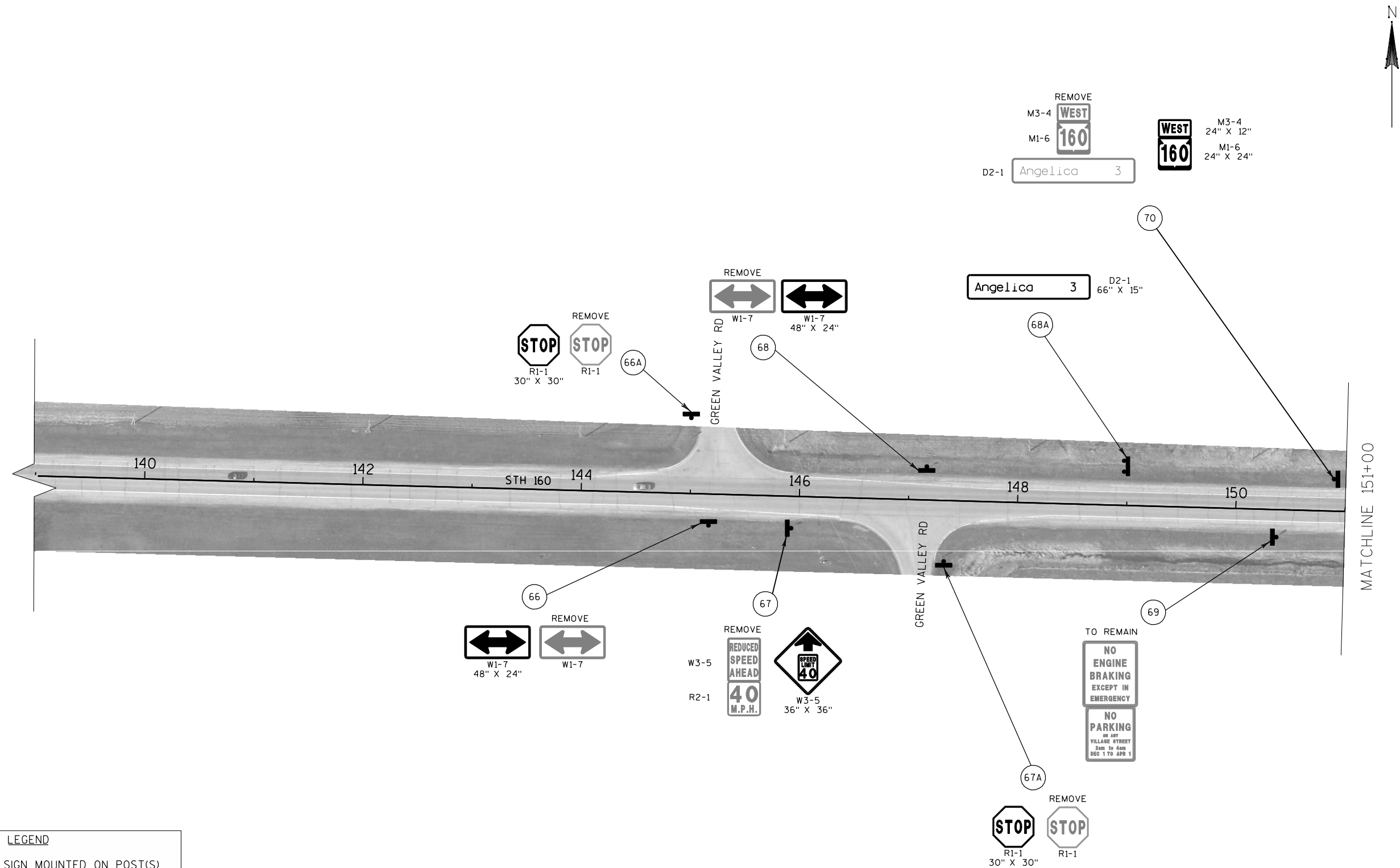
LEGEND

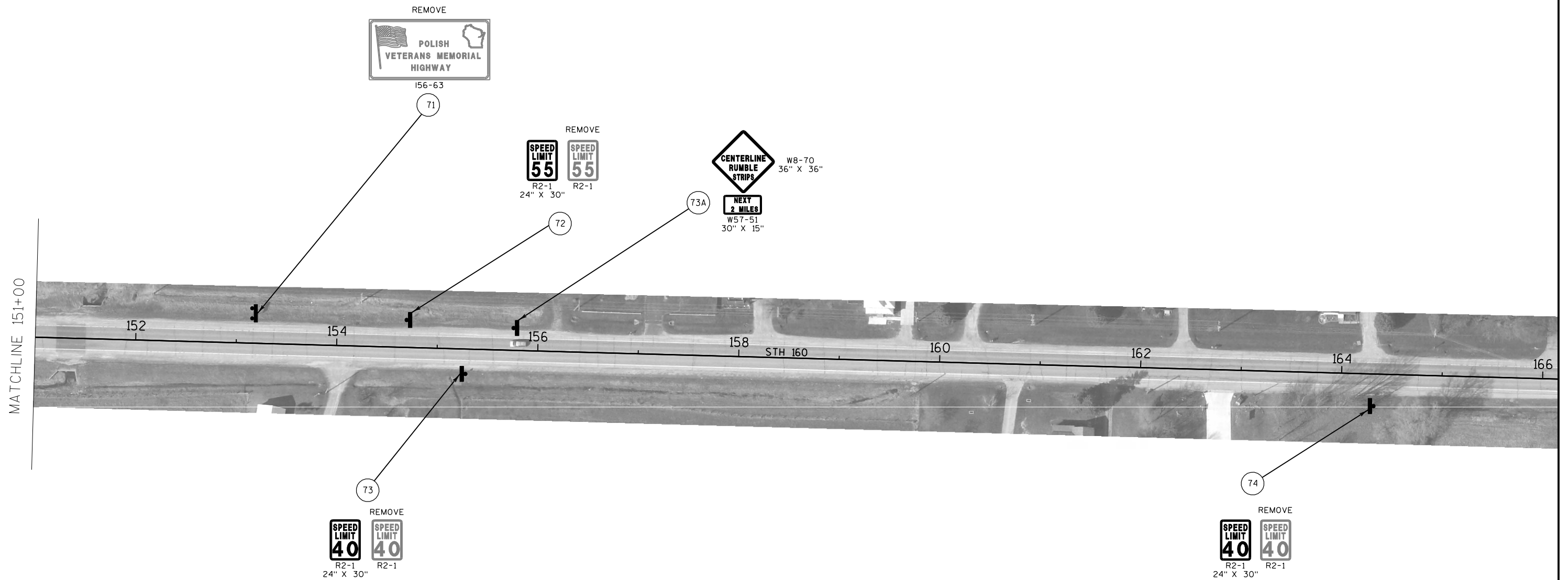
-  EXISTING SIGN MOUNTED ON POST(S)
-  PROPOSED SIGN MOUNTED ON POST(S)
-  DENOTES SIGN NUMBER
-  INDICATES SIGN SIZE AND TYPE



LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  PROPOSED SIGN MOUNTED ON POST(S)
-  DENOTES SIGN NUMBER
-  INDICATES SIGN SIZE AND TYPE





LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  PROPOSED SIGN MOUNTED ON POST(S)
-  DENOTES SIGN NUMBER
-  INDICATES SIGN SIZE AND TYPE

PROJECT NO: 9532-02-71

HWY: STH 160

COUNTY: SHAWANO

PERMANENT SIGNING

SHEET

16

E



MATCHLINE 25+00

MATCHLINE 39+00

**LEGEND**

- (X) EXISTING PAVEMENT MARKING
- (R) REMOVING PAVEMENT MARKING
- (1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (2) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (3) PAVEMENT MARKING EPOXY 4-INCH (YELLOW), (12.5' LINE, 37.5' SKIP)
- (4) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (5) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (6) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- (7) PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
- (8) PAVEMENT MARKING ARROWS EPOXY
- (9) PAVEMENT MARKING WORDS EPOXY
- (10) PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY

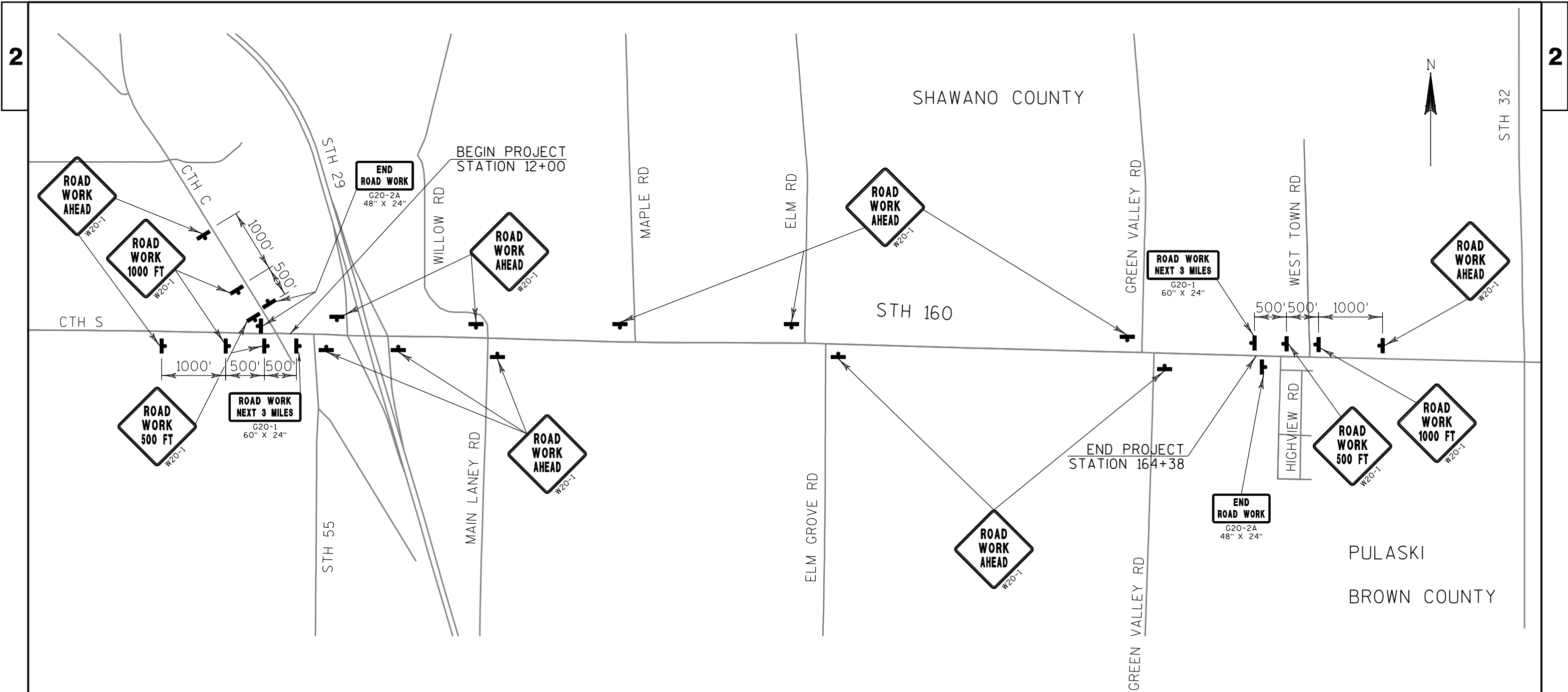
MATCHLINE 39+00



STA 53+00 TO STA 164+38
SEE SDD FOR PAVEMENT MARKING

LEGEND

- (X) EXISTING PAVEMENT MARKING
- (R) REMOVING PAVEMENT MARKING
- (1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (2) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (3) PAVEMENT MARKING EPOXY 4-INCH (YELLOW), (12.5' LINE, 37.5' SKIP)
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- (9) PAVEMENT MARKING WORDS EPOXY
- (10) PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY



TRAFFIC CONTROL NOTES

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

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

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

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

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

WORK WITHIN A WORK ZONE SHALL BE COMPLETED IN ONE DAY AND LANE CLOSURE/TRANSITIONS SHALL BE REMOVED AT THE END OF THE DAY.

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

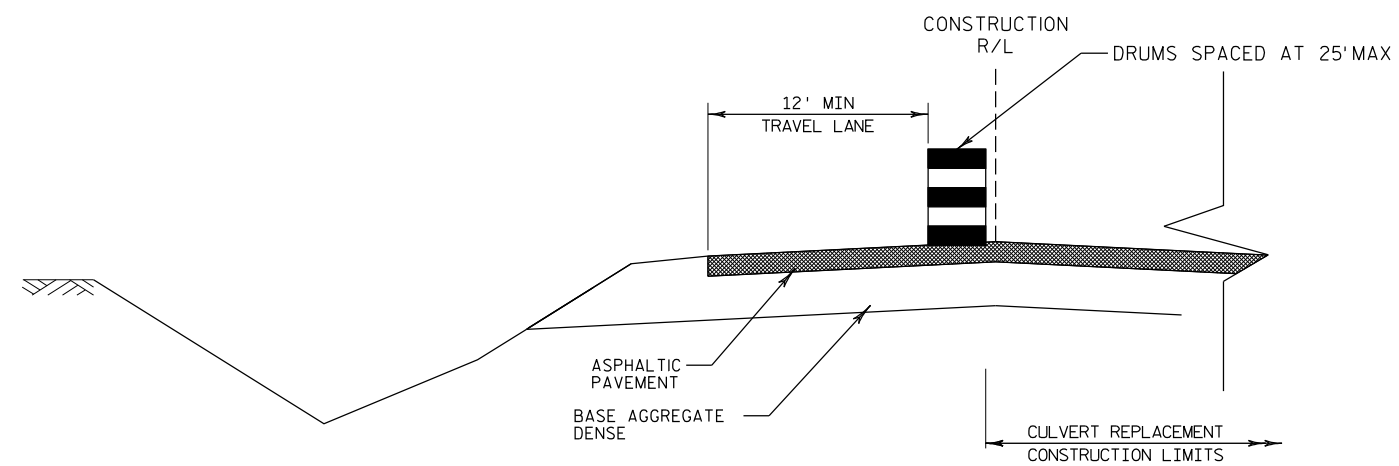
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

SEE S.D.D. 15C4-1 "TRAFFIC CONTROL ADVANCE WARNING SIGNS 45M.P.H. OR GREATER" FOR TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL. ON ONLY ONE SIDE OF AN INTERSECTING ROAD AT A TIME.

WORK ON SHOULDERS SHALL BE IN ACCORDANCE WITH S.D.D. 15 D28-1, "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY."

LEGEND

POST MOUNTED SIGN



TYPICAL FOR CULVERT REPLACEMENTS
NOTE: SEE S.D.D. 15C12-3, "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE
FOR MOVING OPERATIONS)" FOR SIGNING AND FLAGGER NEEDS

3

30JUL13		E S T I M A T E O F Q U A N T I T I E S					
LINE					1053-10-63	6524-02-60	9532-02-71
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY	QUANTITY	QUANTITY
0010	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	4.000			4.000
0020	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	55,480.000	2,970.000	3,880.000	48,630.000
0030	205.0100	EXCAVATION COMMON	CY	500.000			500.000
0040	209.0100	BACKFILL GRANULAR	CY	200.000			200.000
0050	211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 01. 1053-10-63	LS	1.000	1.000		
0060	211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 02. 6524-02-60	LS	1.000		1.000	
0070	211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 03. 9532-02-71	LS	1.000			1.000
0080	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	35.000			35.000
0090	213.0100	FINISHING ROADWAY (PROJECT) 01. 1053-10-63	EACH	1.000	1.000		
0100	213.0100	FINISHING ROADWAY (PROJECT) 02. 6524-02-60	EACH	1.000		1.000	
0110	213.0100	FINISHING ROADWAY (PROJECT) 03. 9532-02-71	EACH	1.000			1.000
0120	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	2,570.000	150.000	170.000	2,250.000
0130	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	1,000.000			1,000.000
0140	305.0500	SHAPING SHOULDERS	STA	312.000	15.000	17.000	280.000
0150	440.4410.S	INCENTIVE IRI RIDE	DOL	11,550.000	577.500	577.500	10,395.000
0160	455.0105	ASPHALTIC MATERIAL PG58-28	TON	370.000	22.000	23.000	325.000
0170	455.0605	TACK COAT	GAL	1,436.000	90.000	90.000	1,256.000
0180	460.1103	HMA PAVEMENT TYPE E-3	TON	6,190.000	370.000	390.000	5,430.000
0190	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	3,970.000	240.000	250.000	3,480.000
0200	465.0105	ASPHALTIC SURFACE	TON	220.000	5.000	5.000	210.000
0210	465.0475.S	ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL	LF	9,579.000			9,579.000
0220	520.0124	CULVERT PIPE CLASS III 24-INCH	LF	140.000			140.000
0230	520.0136	CULVERT PIPE CLASS III 36-INCH	LF	120.000			120.000
0240	520.1024	APRON ENDWALLS FOR CULVERT PIPE 24-INCH	EACH	4.000			4.000
0250	520.1036	APRON ENDWALLS FOR CULVERT PIPE 36-INCH	EACH	4.000			4.000
0260	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 1053-10-63	EACH	1.000	1.000		
0270	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 02. 6524-02-60	EACH	1.000		1.000	
0280	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 03. 9532-02-71	EACH	1.000			1.000
0290	619.1000	MOBILIZATION	EACH	1.000	0.050	0.050	0.900
0300	628.1504	SILT FENCE	LF	150.000			150.000
0310	628.1520	SILT FENCE MAINTENANCE	LF	150.000			150.000
0320	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	1.000			1.000
0330	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000			1.000
0340	628.2002	EROSION MAT CLASS I TYPE A	SY	320.000			320.000
0350	628.2004	EROSION MAT CLASS I TYPE B	SY	75.000			75.000
0360	628.7015	INLET PROTECTION TYPE C	EACH	8.000	2.000	2.000	4.000
0370	628.7555	CULVERT PIPE CHECKS	EACH	15.000			15.000
0380	629.0210	FERTILIZER TYPE B	CWT	0.400			0.400
0390	630.0130	SEEDING MIXTURE NO. 30	LB	10.000			10.000
0400	633.5200	MARKERS CULVERT END	EACH	12.000			12.000
0410	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	4.000		4.000	
0420	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	25.000	4.000	5.000	16.000
0430	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	40.000	13.000	11.000	16.000
0440	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	9.000	2.000	3.000	4.000
0450	634.0620	POSTS WOOD 4X6-INCH X 20-FT	EACH	19.000	5.000	12.000	2.000

3

3

DATE 30JUL13		E S T I M A T E O F Q U A N T I T I E S					
LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1053-10-63 QUANTITY	6524-02-60 QUANTITY	9532-02-71 QUANTITY
0460	634.0622	POSTS WOOD 4X6-INCH X 22-FT	EACH	2.000	2.000		
0470	637.0202	SIGNS REFLECTIVE TYPE II	SF	887.440	219.610	370.610	297.220
0480	638.2602	REMOVING SIGNS TYPE II	EACH	171.000	45.000	74.000	52.000
0490	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	109.000	28.000	37.000	44.000
0500	642.5001	FIELD OFFICE TYPE B	EACH	1.000	0.330	0.330	0.340
0510	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1053-10-63	EACH	1.000	1.000		
0520	643.0100	TRAFFIC CONTROL (PROJECT) 02. 6524-02-60	EACH	1.000		1.000	
0530	643.0100	TRAFFIC CONTROL (PROJECT) 03. 9532-02-71	EACH	1.000			1.000
0540	643.0300	TRAFFIC CONTROL DRUMS	DAY	200.000			200.000
0550	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	200.000			200.000
0560	643.0900	TRAFFIC CONTROL SIGNS	DAY	1,960.000	120.000	720.000	1,120.000
0570	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	36,586.000	2,202.000	2,560.000	31,824.000
0580	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	194.000	194.000		
0590	646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	LF	1,005.000		1,005.000	
0600	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	2.000	2.000		
0610	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	2.000	2.000		
0620	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	20.000		20.000	
0630	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	7.000	2.000	3.000	2.000
0640	647.0856	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY	SF	2,470.000		1,045.000	1,425.000
0650	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	3,078.000		1,005.000	2,073.000
0660	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	4.000			4.000
0670	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	15,238.000	655.000	890.000	13,693.000
0680	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1053-10-63	LS	1.000	1.000		
0690	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02. 6524-02-60	LS	1.000		1.000	
0700	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 03. 9532-02-71	LS	1.000			1.000
0710	690.0150	SAWING ASPHALT	LF	520.000		35.000	485.000

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REMOVING ITEMS

				204.0120
				REMOVING ASPHALTIC SURFACE MILLING
PROJECT ID	STATION	TO	STATION	SY
6524-02-60	12+00	-	15+67	1660
	15+67	-	20+90	2220
	PROJECT TOTAL			3880
1053-10-63	20+90	-	27+45	2970
	PROJECT TOTAL			2970
9532-02-71	27+45	-	34+81	2480
	34+81	-	41+39	2193
	41+39	-	44+89	1914
	44+89	-	64+89	6667
	64+89		67+89	1373
	67+89	-	90+89	7667
	90+89	-	94+39	1651
	94+39	-	97+89	1560
	97+89	-	143+89	15335
	143+89	-	146+00	1124
	146+00	-	147+80	1007
	147+80	-	162+00	4733
	162+00	-	164+38	926
	PROJECT TOTAL			48630
	TOTAL			55480

PAVEMENT ITEMS

				211.0100	211.0400	305.0110	305.0120	305.0500	455.0105	455.0605	460.1103	465.0105	465.0475.S				
				PREPARE FOUNDATION FOR ASPHALTIC PAVING	PREPARE FOUNDATION FOR ASPHALTIC SHOULDER	BASE AGGREGATE DENSE 3/4-INCH TON	BASE AGGREGATE DENSE 1 1/4-INCH TON	SHAPING SHOULDER STA	ASPHALTIC MATERIAL PG58-28 TON	TACK COAT GAL	HMA PAVEMENT TYPE E-3 TON	ASPHALTIC SURFACE TON	ASPHALTIC CENTER LINE RUMBLE STRIP LF				
PROJECT ID	STATION	TO	STATION	LS	STA	TON	TON	STA	TON	GAL	TON	TON	LF	REMARKS			
6524-02-60	12+00	-	15+67	-	-	77	-	8	11	43	190	-	-	FOR MINOR REPAIR			
	15+67	-	20+90	-	-	109	-	9	12	47	200	-	-				
	UNDISTRIBUTED			-	-	-	-	-	-	-	-	5	-				
	PROJECT TOTAL			1	0	187	0	17	23	90	390	5	-				
1053-10-63	20+90		27+45	-	-	134	-	15	22	90	370	5	-	FOR MINOR REPAIR			
	PROJECT TOTAL			1	0	134	0	15	22	90	370	5	-				
9532-02-71	27+45	-	34+00	-	-	136	-	13	16	62	273	-	-	FOR MINOR REPAIR			
	34+00	-	34+81	-	-	14	-	2	-	-	-	-	-				
	34+81		41+35	-	-	111	-	14	15	55	240	-	613				
	41+35		44+89	-	-	73	-	8	13	48	212	-	-				
	44+89		64+89	-	-	415	-	40	44	169	733	-	1892				
		45+07		-	-	-	250	-	-	4	-	40	-				
		63+42		-	-	-	250	-	-	4	-	40	-				
	64+89		67+89	-	-	49	-	6	9	35	151	-	-				
	67+89		90+89	-	-	379	-	46	51	192	843	-	2248				
	90+89		94+39	-	-	58	-	8	11	41	182	-	-				
	94+39		97+89	-	-	58	-	8	10	40	172	-	-				
	97+89		143+89	-	-	760	-	92	101	383	1688	-	4238				
		137+06		-	-	-	250	-	-	4	-	40	-				
	143+89		146+00	-	-	35	-	6	7	30	124	-	-				
	146+00		147+80	-	2	23	-	4	7	26	115	-	-				
	147+80	-	162+00	-	30	128	-	30	35	134	590	-	588				
		155+04		-	-	-	250	-	-	4	-	40	-				
	162+00	-	164+38	-	3	11	-	3	6	25	108	-	-				
	UNDISTRIBUTED				-	-	-	-	-	-	-	-	50		-	FOR MINOR REPAIR	
	PROJECT TOTAL				1	35	2250	1000	280	325	1256	5430	210		9579		
TOTAL				N/A	35	2571	1000	312	370	1436	6190	220	9579				

CROSS CULVERT ITEMS

PROJECT ID	STATION	203.0100	205.0100	209.0100	520.1024	520.1036		520.0124	520.0136	633.5200
		REMOVING			APRON ENDWALLS	APRON ENDWALLS		CULVERT PIPE	CULVERT PIPE	MARKERS
		SMALL	EXCAVATION	BACKFILL	FOR CULVERT	FOR CULVERT		CLASS III	CLASS III	CULVERT
		PIPE	COMMON	GRANULAR	PIPE	PIPE	CULVERT PIPE	24-INCH	36-INCH	END
		CULVERTS			24-INCH	36-INCH	MINIMUM			
		EACH	CY	CY	EACH	EACH	THICKNESS*	LF	LF	EACH
9532-02-71	15+06	-	-	-	-	-	-	-	-	2
	45+07	1	125	50	-	2	0.079	-	64	2
	63+42	1	125	50	2	-	0.064	70	-	2
	102+83	-	-	-	-	-	-	-	-	2
	137+06	1	125	50	-	2	0.079	-	56	2
	155+04	1	125	50	2	-	0.064	70	-	2
	PROJECT TOTAL	4	500	200	4	4		140	120	12
	TOTAL	4	500	200	4	4		140	120	12

* FOR INFORMATION ONLY

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EROSION CONTROL ITEMS

		628.1504	628.1520	628.1905	628.1910	628.2004	628.7015	628.7555
		SILT FENCE	SILT FENCE MAINTENANCE	MOBILIZATIONS EROSION CONTROL	MOBILIZATIONS EMERGENCY EROSION CONTROL	EROSION MAT CLASS I TYPE B	INLET PROTECTION TYPE C	CULVERT PIPE CHECKS
PROJECT ID	STATION	LF	LF	EACH	EACH	SY	EACH	EACH
6524-02-60	UNDISTRIBUTED	-	-	-	-	-	2	-
	Project Total	-	-	-	-	-	2	-
1053-10-63	UNDISTRIBUTED	-	-	-	-	-	2	-
	Project Total	-	-	-	-	-	2	-
9532-02-71	45+07	30	30	-	-	20	-	3
	63+42	30	30	-	-	10	-	2
	137+06	30	30	-	-	20	-	3
	155+04	30	30	-	-	10	-	2
	UNDISTRIBUTED	30	30	1	1	15	4	5
	Project Total	150	150	1	1	75	4	15
Total		150	150	1	1	75	8	15

LANDSCAPING ITEMS

		628.2002	629.0210	630.0130
		EROSION MAT CLASS I TYPE A	FERTILIZER TYPE B	SEEDING MIXTURE 30
PROJECT ID	STATION	SY	CWT	LB
9532-02-71	45+07	80	.10	2
	63+42	80	.10	2
	137+06	80	.10	2
	155+04	80	.10	2
	UNDISTRIBUTED	-	-	2
PROJECT TOTAL		320	0.40	10
TOTAL		320	0.40	10

STAKING ITEMS

			650.6000	650.8000	
			CONSTRUCTION STAKING PIPE CULVERTS	CONSTRUCTION STAKING RESURFACING REFERENCE	
PROJECT ID	STATION	TO	STATION	EACH	LF
6524-02-60	12+00	-	20+90	-	890
	PROJECT TOTAL			0	890
1053-10-63	20+90	-	27+45	-	655
	PROJECT TOTAL			0	655
9532-02-71	27+45	-	164+38	4	13693
	PROJECT TOTAL			4	13693
TOTAL			4	15238	

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SIGN ITEMS

PROJECT ID	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE WxH	634.0612	634.0614	634.0616	634.0618	634.0620	634.0622	637.0202	638.2602	638.3000	REMARKS
					POSTS WOOD 4X6-INCH X12-FT EACH	POSTS WOOD 4X6-INCH X14-FT EACH	POSTS WOOD 4X6-INCH X16-FT EACH	POSTS WOOD 4X6-INCH X18-FT EACH	POSTS WOOD 4X6-INCH X20-FT EACH	POSTS WOOD 4X6-INCH X22-FT EACH	SIGNS RELFECTIVE TYPE II SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
6524-02-60														
	1	W6-1	-	21"x21"	-	1	-	-	-	-	3.06	1	1	-
	1A	D4-2L	PARK & RIDE	30"x36"	-	-	1	-	-	-	7.50	1	1	-
	1B	D1-1	ADVANCE	66"x15"	2	-	-	-	-	-	6.88	1	2	-
	1C	M4-6	END	24"x12"	-	-	-	-	1	-	2.00	1	1	-
		M1-5A	S	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M2-1	JCT	21"x15"	-	-	-	-	-	-	2.19	1	-	-
		M2-1	JCT	21"x15"	-	-	-	-	-	-	2.19	1	-	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M1-6	160	24"x24"	-	-	-	-	-	-	4.00	1	-	-
	1D	I2-3	ANGELICA	54"x24"	-	-	1	-	-	-	9.00	1	1	-
	1E	W5-54	-	18"X18"	-	-	-	-	-	-	2.25	1	-	ON POST WITH SIGN 2
	2	R4-7	-	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	3	M1-6	160	24"x24"	-	-	-	-	2	-	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-1	NORTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-2	EAST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-3	SOUTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	3A	M1-5A	S	24"x24"	-	2	-	-	-	-	4.00	-	2	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	-	-	-
		R6-2L	ONE WAY	24"x30"	-	-	-	-	-	-	5.00	-	-	-
		D4-2L	PARK & RIDE	30"x36"	-	-	-	-	-	-	7.50	-	-	-
	4	R4-7	-	24"x30"	-	-	-	-	-	-	5.00	1	-	ON POST WITH SIGN 5
	5	M1-6	55	24"x24"	-	-	-	-	1	-	4.00	1	1	-
		M3-3	SOUTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	5A	R1-1	STOP	36"x36"	-	-	1	-	-	-	7.46	1	1	-
		R6-3A	DIVIDED HIGHWAY	30"x24"	-	-	-	-	-	-	5.00	-	-	-
	5B	R1-1	STOP	36"x36"	-	-	1	-	-	-	7.46	1	1	-
	6	M2-1	JCT	21"x15"	-	-	1	-	-	-	2.19	1	1	-
		M1-6	29	24"x24"	-	-	-	-	-	-	4.00	1	-	-
	6A	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	-	-	ON POST WITH SIGN 7

SHEET 1 OF 6

PROJECT NO: 6524-02-60

HWY: STH 55/STH 160

COUNTY: SHAWANO

MISCELLANEOUS QUANTITIES

SHEET

E

SIGN ITEMS

PROJECT ID	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE WxH	634.0612	634.0614	634.0616	634.0618	634.0620	634.0622	637.0202	638.2602	638.3000	REMARKS
					POSTS WOOD 4X6-INCH X12-FT EACH	POSTS WOOD 4X6-INCH X14-FT EACH	POSTS WOOD 4X6-INCH X16-FT EACH	POSTS WOOD 4X6-INCH X18-FT EACH	POSTS WOOD 4X6-INCH X20-FT EACH	POSTS WOOD 4X6-INCH X22-FT EACH	SIGNS RELFECTIVE TYPE II SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
6524-02-60	7	M1-5A	S	24"x24"	-	-	1	-	1	-	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-3	SOUTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	8	D1-1	SEYMOUR	66"x15"	2	-	-	-	-	-	6.88	1	2	-
	9	R5-1A	WRONG WAY	36"x24"	-	1	-	-	-	-	8.75	1	1	-
	10	W3-1	-	36"x36"	-	-	-	-	-	-	9.00	1	-	ON POST WITH SIGN 9
	11	D1-3	SHAWANO PULASKI GREEN BAY	72"x36"	-	-	2	-	-	-	18.00	1	2	-
	12	R5-1A	WRONG WAY	36"x24"	-	-	-	-	-	-	8.75	1	-	ON POST WITH SIGN 11
	13	M1-6	55	24"x24"	-	-	-	-	1	-	4.00	1	1	-
		M3-3	SOUTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M5-1L	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	14	M1-5A	C	24"x24"	-	-	-	1	-	-	4.00	1	1	-
		M2-1	JCT	21"x15"	-	-	-	-	-	-	2.19	1	-	-
	15	M1-6	29	24"x24"	-	-	-	-	2	-	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-1	NORTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-4	WEST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	16	W6-2	-	36"x36"	-	1	-	-	-	-	9.00	1	1	-
	17	M1-6	160	24"x24"	-	-	-	-	2	-	4.00	1	2	-
		M1-6	29	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-2	EAST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-2	EAST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	18	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	1	-	ON POST WITH SIGN 17
	19	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	1	-	ON POST WITH SIGN 22
	20	R5-1	DO NOT ENTER	30"x30"	-	-	1	-	-	-	6.25	1	1	-
	21	R3-2	-	24"x24"	-	-	-	-	-	-	4.00	1	-	ON POST WITH SIGN 23
	22	R6-2R	ONE WAY	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	22A	R1-1	STOP	36"x36"	-	-	-	1	-	-	7.46	1	1	-
		R6-3	DIVIDED HIGHWAY	30"x24"	-	-	-	-	-	-	5.00	-	-	-

SHEET 2 OF 6

SIGN ITEMS

PROJECT ID	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE WxH	634.0612	634.0614	634.0616	634.0618	634.0620	634.0622	637.0202	638.2602	638.3000	REMARKS
					POSTS WOOD 4X6-INCH X12-FT EACH	POSTS WOOD 4X6-INCH X14-FT EACH	POSTS WOOD 4X6-INCH X16-FT EACH	POSTS WOOD 4X6-INCH X18-FT EACH	POSTS WOOD 4X6-INCH X20-FT EACH	POSTS WOOD 4X6-INCH X22-FT EACH	SIGNS RELLECTIVE TYPE II SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
6524-02-60	23	M1-6	29	24"x24"	-	-	-	-	2	-	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-2	EAST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-3	SOUTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
				UNDISTRIBUTED	-	-	-	-	-	-	-	4	2	
			PROJECT TOTAL		4	5	11	3	12	0	370.61	74	37	
1053-10-63	24	R5-1	DO NOT ENTER	30"x30"	-	1	-	-	-	-	6.25	1	1	-
	25	R3-1	-	24"x24"	-	-	-	-	-	-	4.00	1	-	ON POST WITH SIGN 24
	26	R6-2L	ONE WAY	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	27	D4-5R	PARK & RIDE	30"x36"	-	-	1	-	-	-	7.50	1	1	ON POST WITH SIGN 20
	28	R4-7	-	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	29	M1-6	29	24"x24"	-	-	-	-	-	2	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-1	NORTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-4	WEST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M5-1L	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M5-1L	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	30	R5-1A	WRONG WAY	36"x24"	-	1	-	-	-	-	8.75	1	1	-
	31	D1-2	SEYMOUR GREEN BAY	90"x36"	-	-	2	-	-	-	22.50	1	2	-
	32	R3-20LL	BEGIN LEFT TURN LANE	24"x36"	-	-	1	-	-	-	6.00	1	1	-
	33	R3-20LL	BEGIN LEFT TURN LANE	24"x36"	-	-	1	-	-	-	6.00	1	1	-
	34	D1-2	PULASKI SHAWANO	90"x36"	-	-	2	-	-	-	22.50	1	2	-

SIGN ITEMS

PROJECT ID	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE WxH	634.0612	634.0614	634.0616	634.0618	634.0620	634.0622	637.0202	638.2602	638.3000	REMARKS
					POSTS WOOD 4X6-INCH X12-FT EACH	POSTS WOOD 4X6-INCH X14-FT EACH	POSTS WOOD 4X6-INCH X16-FT EACH	POSTS WOOD 4X6-INCH X18-FT EACH	POSTS WOOD 4X6-INCH X20-FT EACH	POSTS WOOD 4X6-INCH X22-FT EACH	SIGNS RELFECTIVE TYPE II SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
1053-10-63	35	R5-1A	WRONG WAY	36"x24"	-	1	-	-	-	-	8.75	1	-	ON POST WITH SIGN 34
	36	M1-6	29	24"x24"	-	-	-	-	2	-	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-2	EAST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-3	SOUTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M5-1L	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	37	R4-7	-	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	38	M1-6	29	24"x24"	-	-	-	-	3	-	4.00	1	3	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M1-6	160	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-1	NORTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-2	EAST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-4	WEST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	39	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	1	1	ON POST WITH SIGN 38
	40	R3-1	-	24"x24"	-	1	-	-	-	-	4.00	1	1	-
	41	R6-2L	ONE WAY	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	42	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	1	-	ON POST WITH SIGN 43
	43	D4-5L	PARK & RIDE	30"x36"	-	-	1	-	-	-	7.50	1	1	-
	44	R1-1	STOP	36"x36"	-	-	-	1	-	-	7.46	1	1	-
		R6-3	DIVIDED HIGHWAY	30"x24"	-	-	-	-	-	-	5.00	-	-	-
	44A	R1-1	STOP	36"x36"	-	-	-	1	-	-	7.46	1	1	-
		R6-3	DIVIDED HIGHWAY	30"x24"	-	-	-	-	-	-	5.00	-	-	-
	45	R6-2R	ONE WAY	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	45A	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	1	-	ON POST WITH SIGN 45
UNDISTRIBUTED					-	-	-	-	-	-	-	3	2	
PROJECT TOTAL					0	4	13	2	5	2	219.61	45	28	

SIGN ITEMS														
PROJECT ID	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE WxH	634.0612	634.0614	634.0616	634.0618	634.0620	634.0622	637.0202	638.2602	638.3000	REMARKS
					POSTS WOOD 4X6-INCH X12-FT EACH	POSTS WOOD 4X6-INCH X14-FT EACH	POSTS WOOD 4X6-INCH X16-FT EACH	POSTS WOOD 4X6-INCH X18-FT EACH	POSTS WOOD 4X6-INCH X20-FT EACH	POSTS WOOD 4X6-INCH X22-FT EACH	SIGNS RELLECTIVE TYPE II SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
9532-02-71														
	45B	R4-7	-	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	46	R3-2	-	24"x24"	-	-	-	-	-	-	4.00	1	-	ON POST WITH SIGN 45B
	47	W6-2	-	36"x36"	-	1	-	-	-	-	9.00	1	1	-
	48	R5-1A	WRONG WAY	36"x24"	-	1	-	-	-	-	8.75	1	1	-
	49	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	1	1	ON POST WITH SIGN 50
	50	M1-6	29	24"x24"	-	-	-	-	2	-	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M3-1	NORTH	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M3-4	WEST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
		M6-1	-	21"x21"	-	-	-	-	-	-	3.06	1	-	-
	51	D1-3	GREEN BAY SEYMOUR SHAWANO	72"x36"	-	-	2	-	-	-	18.00	1	2	-
	52	R5-1A	WRONG WAY	36"x24"	-	1	-	-	-	-	8.75	1	1	-
	53	R4-7	-	24"x30"	-	-	1	-	-	-	5.00	1	1	-
	54	W6-3	-	36"x36"	-	1	-	-	-	-	9.00	1	1	-
	55	R5-1	DO NOT ENTER	30"x30"	-	-	-	-	-	-	6.25	1	-	ON POST WITH SIGN 54
	55A	W8-70	CENTERLINE RUMBLE STRIPS	36"x36"	-	1	-	-	-	-	9.00	-	-	-
		W57-51	NEXT 2 MILES	30"x15"	-	-	-	-	-	-	3.13	-	-	-
	56	M1-6	160	24"x24"	-	-	1	-	-	-	4.00	1	1	-
		M3-2	EAST	24"x12"	-	-	-	-	-	-	2.00	1	-	-
	57	M1-6	29	24"x24"	-	-	-	2	-	-	4.00	1	2	-
		M1-6	55	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M1-6	160	24"x24"	-	-	-	-	-	-	4.00	1	-	-
		M2-1	JCT	21"x15"	-	-	-	-	-	-	2.19	1	-	-
		M2-1	JCT	21"x15"	-	-	-	-	-	-	2.19	1	-	-
		M4-6	END	24"x12"	-	-	-	-	-	-	2.00	1	-	-
	58	W6-1	-	36"x36"	-	1	-	-	-	-	9.00	1	1	-
	59	D2-1	PULASKI 3	60"x15"	-	2	-	-	-	-	7.50	1	2	-
	60	R2-1	SPEED LIMIT 55	24"x30"	-	-	-	-	-	-	5.00	1	-	-
	61	W14-3	NO PASSING ZONE	64"x48"	-	-	1	-	-	-	21.33	1	1	ON POST WITH SIGN 60

SIGN ITEMS

PROJECT ID	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE WxH	634.0612	634.0614	634.0616	634.0618	634.0620	634.0622	637.0202	638.2602	638.3000	REMARKS	
					POSTS WOOD 4X6-INCH X12-FT EACH	POSTS WOOD 4X6-INCH X14-FT EACH	POSTS WOOD 4X6-INCH X16-FT EACH	POSTS WOOD 4X6-INCH X18-FT EACH	POSTS WOOD 4X6-INCH X20-FT EACH	POSTS WOOD 4X6-INCH X22-FT EACH	SIGNS RELFEKTIVE TYPE II SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH		
9532-02-71	61A	R1-1	STOP	30"x30"	-	-	1	-	-	-	5.18	1	1	-	
	61B	R1-1	STOP	30"x30"	-	-	1	-	-	-	5.18	1	1	-	
	62	-	-	-	-	-	-	-	-	-	-	1	2	-	
	62A	R1-1	STOP	30"x30"	-	-	1	-	-	-	5.18	1	1	-	
	63	W1-7	-	48"x24"	-	1	-	-	-	-	8.00	1	1	-	
	63A	R1-1	STOP	30"x30"	-	-	1	-	-	-	5.18	1	1	-	
	64	W1-7	-	48"x24"	-	1	-	-	-	-	8.00	1	1	-	
	64A	R1-1	STOP	30"x30"	-	-	1	-	-	-	5.18	1	1	-	
	65	I55-56	ADOPT A HIGHWAY PULASKI HS SKILLS USA CLUB	30"x36"	-	1	-	-	-	-	7.50	1	1	-	
	66	W1-7	-	48"x24"	-	2	-	-	-	-	8.00	1	2	-	
	66A	R1-1	STOP	30"x30"	-	-	1	-	-	-	5.18	1	1	-	
	67	W3-5	SPEED LIMIT 40	36"x36"	-	1	-	-	-	-	9.00	2	1	-	
	67A	R1-1	STOP	30"x30"	-	-	1	-	-	-	5.18	1	1	-	
	68	W1-7	-	48"x24"	-	2	-	-	-	-	8.00	1	2	-	
	68A	D2-1	ANGELICA 3	66"x15"	-	-	-	-	-	-	6.88	1	-	-	
	69	R10-64	NO ENGINE BRAKING EXCEPT IN EMERGENCY	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN IN PLACE	
			NO PARKING ON ANY VILLAGE STREET 2AM - 4AM DEC 1 TO APR 1	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN IN PLACE	
	70	M1-6	160	24"x24"	-	-	-	2	-	-	4.00	1	2	-	
		M3-4	WEST	24"x12"	-	-	-	-	-	-	2.00	1	-	-	
	71	-	-	-	-	-	-	-	-	-	-	1	2	-	
	72	R2-1	SPEED LIMIT 55	24"x30"	-	-	1	-	-	-	5.00	1	1	-	
	73	R2-1	SPEED LIMIT 40	24"x30"	-	-	1	-	-	-	5.00	1	1	-	
	73A	W8-70	CENTERLINE RUMBLE STRIPS	36"x36"	-	-	1	-	-	-	9.00	-	-	-	
		W57-51	NEXT 2 MILES	30"x15"	-	-	-	-	-	-	3.13	-	-	-	
	74	R2-1	SPEED LIMIT 40	24"x30"	-	-	1	-	-	-	5.00	1	1	-	
	UNDISTRIBUTED					-	-	-	-	-	-	-	3	3	
	PROJECT TOTAL					0	16	16	4	2	0	297.22	52	44	
	TOTAL					4	25	40	9	19	2	860.85	171	109	

TRAFFIC CONTROL ITEMS

				643.0300	643.0705		643.0900			
					TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL WARNING LIGHTS TYPE A	TRAFFIC CONTROL SIGNS			
PROJECT ID	STATION	TO	STATION	CALENDAR DAYS	DAY	EACH*	DAY	EACH*	DAY	EACH*
6524-02-60	12+00	-	20+90	60	-	-	-	-	600	10
	UNDISTRIBUTED				-		-		120	
	PROJECT TOTAL				-		-		720	
1053-10-63	20+90	-	27+45	60	-	-	-	-	120	2
	PROJECT TOTAL				-		-		120	
9532-02-71	CULVERT REPLACEMENTS			5	150	30	150	30	-	-
	PAVING OPERATIONS			20	-	-	-	-	160	8
	NO PASSING ZONE SIGNING			6	-	-	-	-	36	6
	NO CENTER STRIPE SIGNING			6	-	-	-	-	24	4
	27+46	-	164+39	60	-	-	-	-	720	12
	UNDISTRIBUTED				50		50		180	
	PROJECT TOTAL				200		200		1120	
TOTAL					200		200		1960	

* FOR INFORMATION ONLY

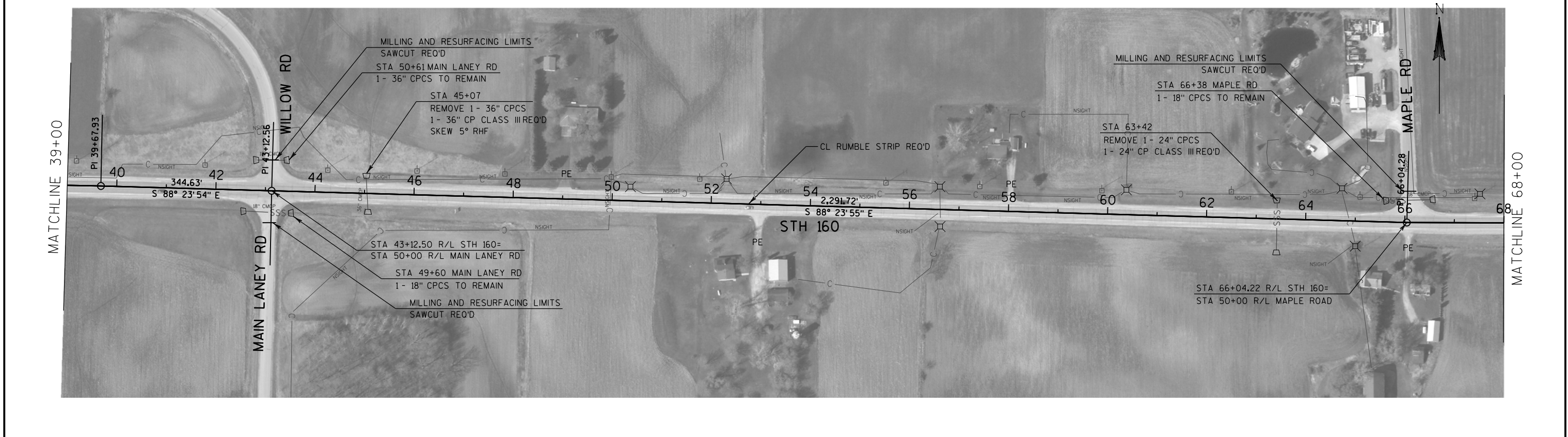
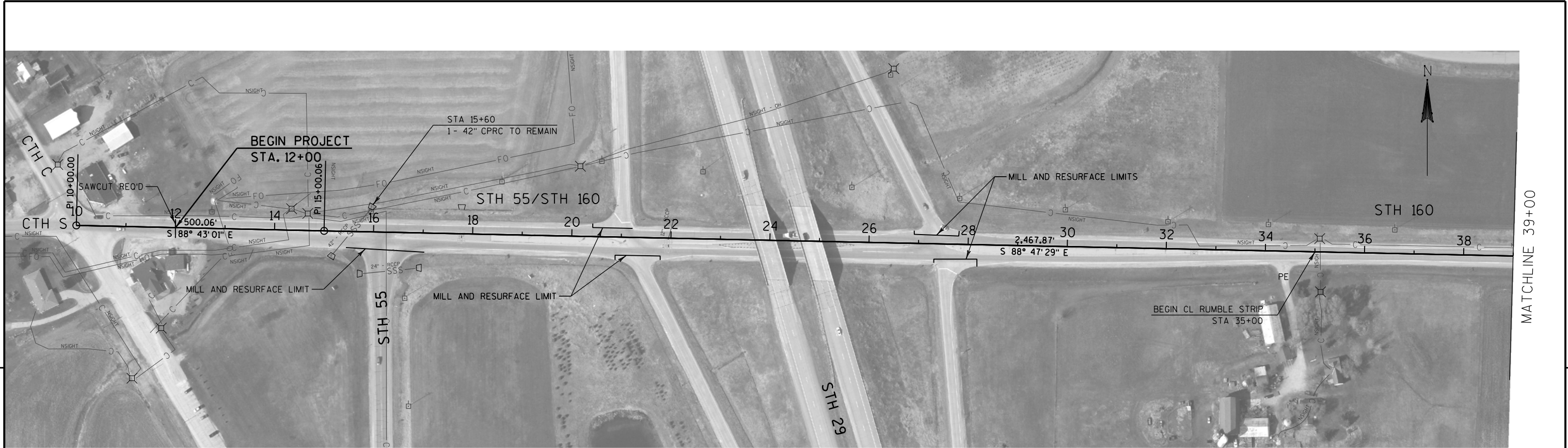
SAWCUT ITEMS

		690.015
		SAWING ASPHALT
PROJECT ID	STATION	LF
6524-02-60	12+00	35
	PROJECT TOTAL	35
1053-10-63	20+90	-
	PROJECT TOTAL	-
9532-02-71	MAIN LANEY RD	30
	WILLOW RD	30
	45+07	60
	63+42	60
	MAPLE RD	30
	ELM RD	30
	ELM GROVE RD	30
	137+06	60
	GREEN VALLEY RD	60
	155+04	60
	164+38	35
	PROJECT TOTAL	485
	TOTAL	520

PAVEMENT MARKING ITEMS

				646.0106	646.0106	646.0106	646.0126	646.0406	647.0356	647.0566	647.0606	647.0856	649.0100	649.0100
				PAVEMENT MARKING EPOXY 4-INCH	PAVEMENT MARKING EPOXY 4-INCH	PAVEMENT MARKING EPOXY 37.5' SKIP 12.5' DASH	PAVEMENT MARKING EPOXY 8-INCH	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	PAVEMENT MARKING WORDS EPOXY	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	PAVEMENT MARKING ISLAND NOSE EPOXY	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY	TEMPORARY PAVEMENT MARKING 4-INCH 46' SKIP 4' DASH*	TEMPORARY PAVEMENT MARKING 4-INCH*
PROJECT ID	STATION	TO	STATION	LF WHITE	LF YELLOW	LF YELLOW	LF WHITE	LF YELLOW	EACH WHITE	LF WHITE	EACH YELLOW	SF YELLOW	LF YELLOW	LF YELLOW
6524-02-60	10+63	-	15+88	880	-	-	-	1,005	-	-	1	1,045	-	1,005
	15+88	-	21+38	857	823	-	-	-	-	20	2	-	-	-
	PROJECT TOTAL			1,737	823	-	-	1,005	-	20	3	1,045	-	1,005
1053-10-63	21+16	-	27+41	1,235	967	-	194	-	2	-	2	-	-	-
	PROJECT TOTAL			1,235	967	-	194	-	2	-	2	-	-	-
9532-02-71	27+38	-	43+71	3,030	2,195	200	-	-	-	-	2	1,425	128	-
	43+71	-	66+80	4,491	-	580	-	-	-	-	-	-	371	-
	66+80	-	93+21	5,204	-	665	-	-	-	-	-	-	425	-
	93+21	-	145+97	10,150	-	1,333	-	-	-	-	-	-	853	-
	145+97	-	164+38	3,514	-	462	-	-	-	-	-	-	296	-
	PROJECT TOTAL			26,389	2,195	3,240	-	-	-	-	2	1,425	2,073	-
	SUBTOTAL			29,361	3,985	3,240	194	1,005	2	20	7	2,470	2,073	1,005
TOTAL				36,586			194	1,005	2	20	7	2,470	3,079	

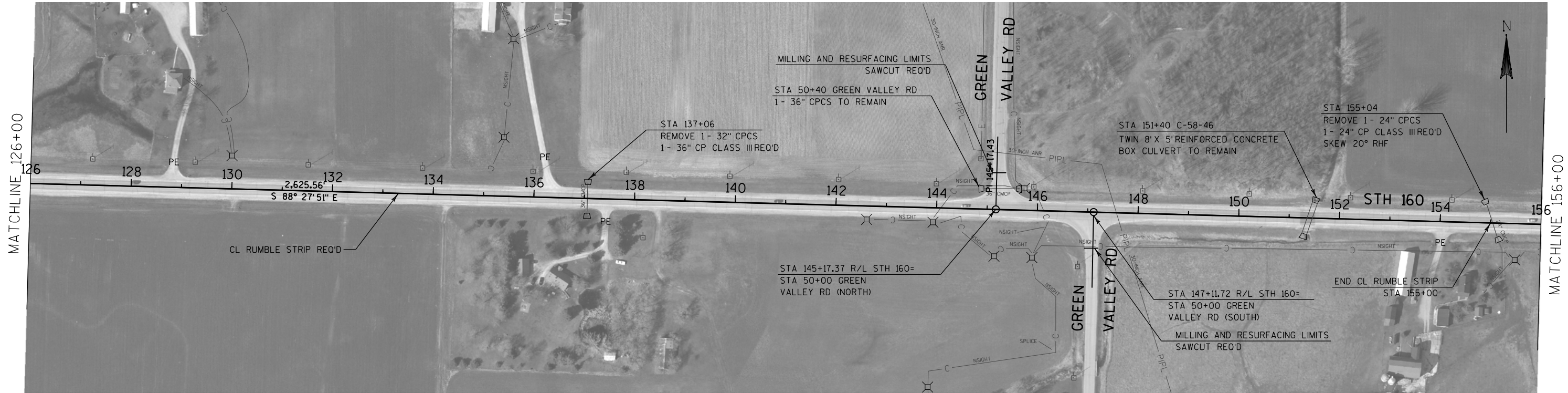
* QUANTITY FOR TWO PAVEMENT LAYERS





MATCHLINE 97+00



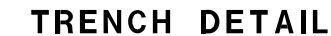


Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C19-01A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-01	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



- 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 1½" X 1½" 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.

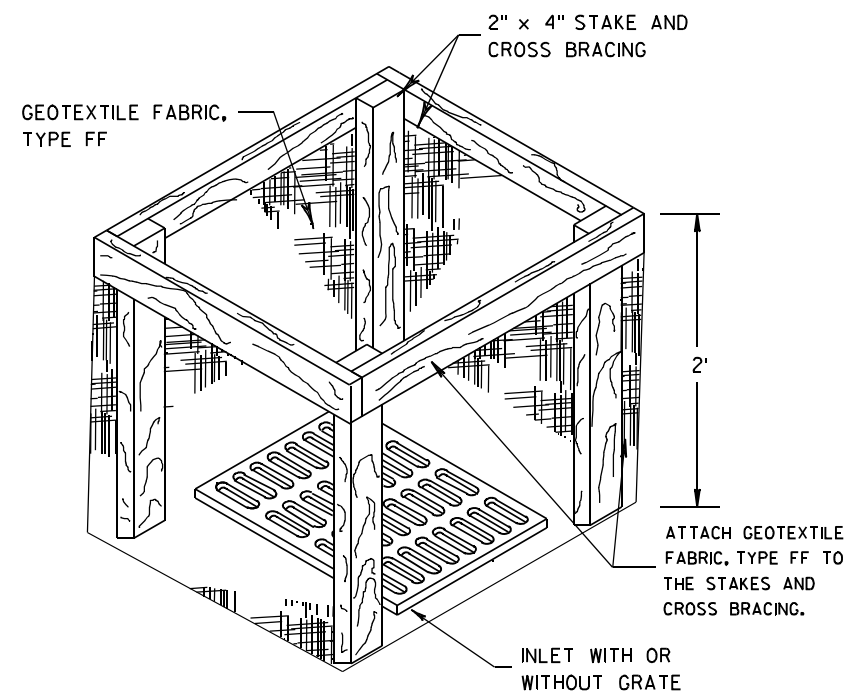
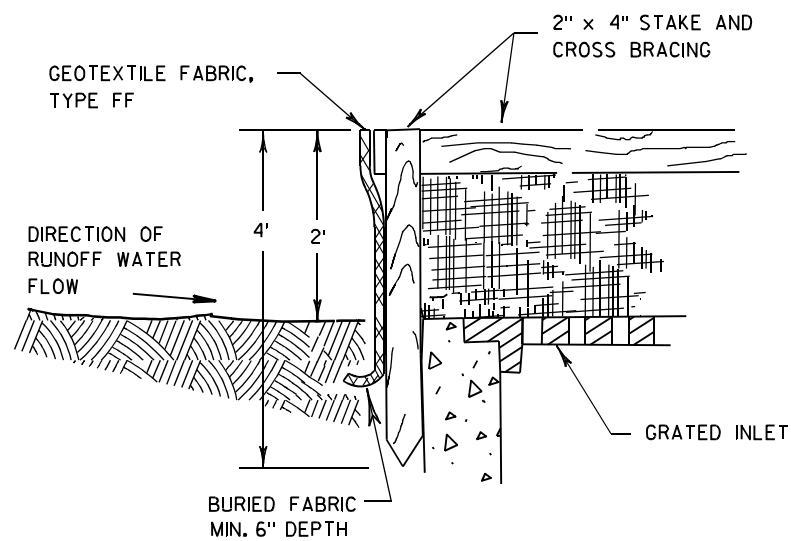


SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05
DATE _____ /S/ Beth Cannata _____
CHIEF ROADWAY DEVELOPMENT 39 INCHES

FHWA



INLET PROTECTION, TYPE A

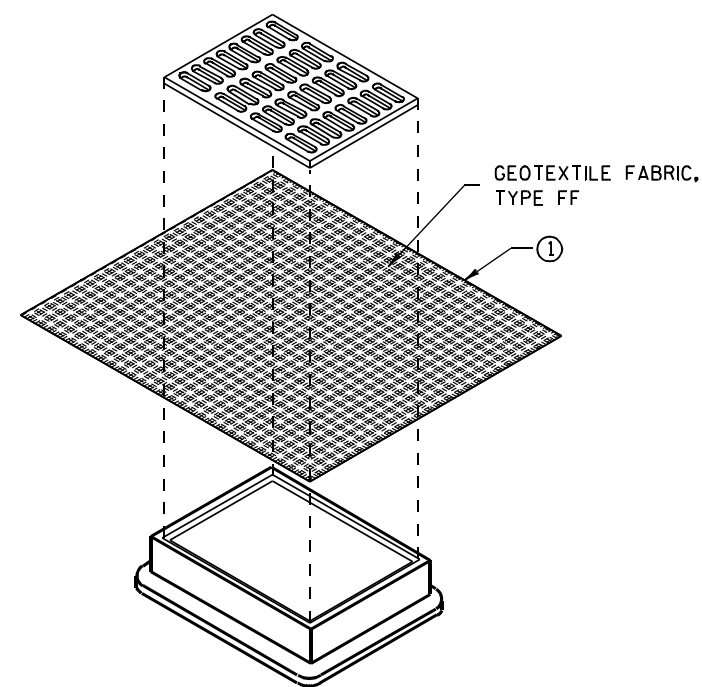
GENERAL NOTES

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

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

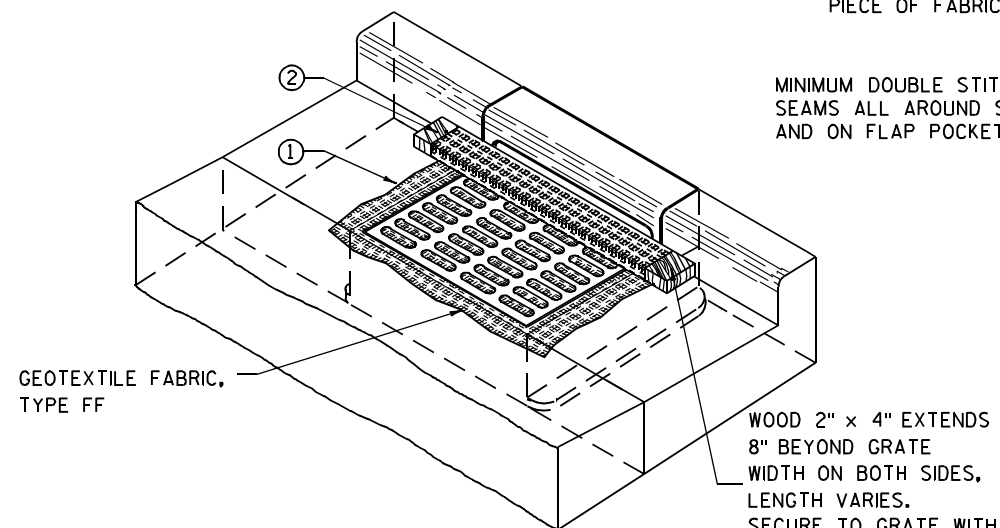
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

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



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

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

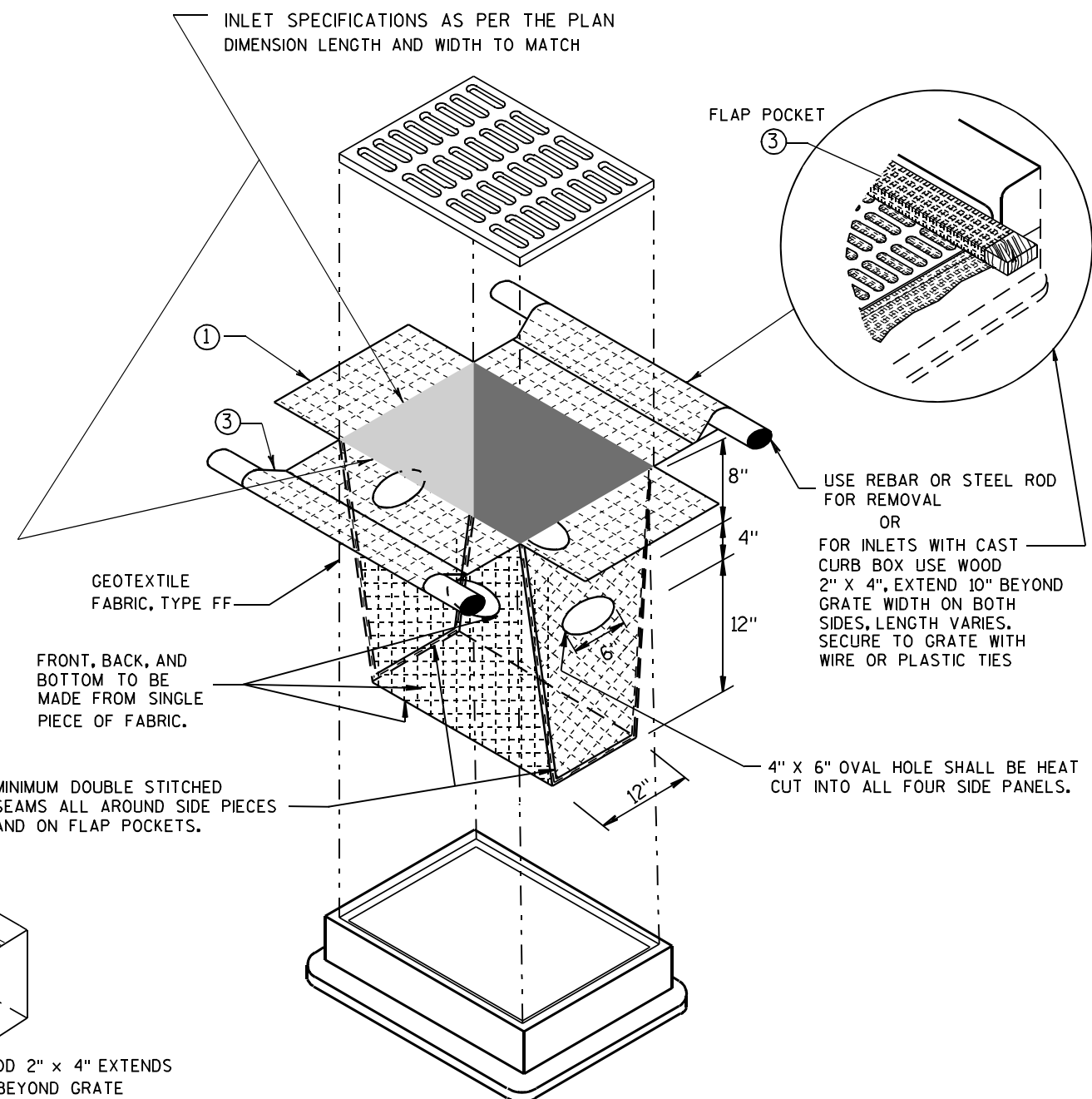
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

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

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

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



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

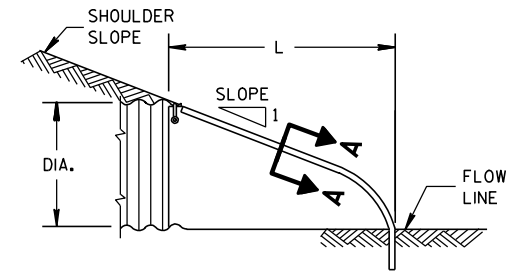
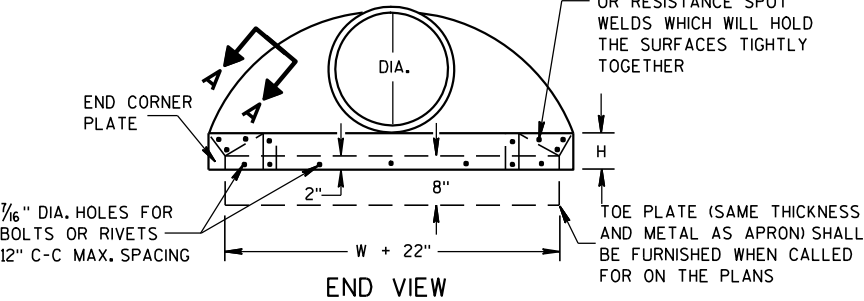
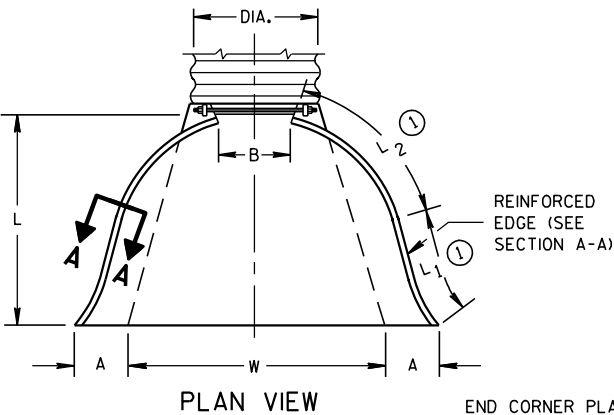
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Connolly
DATE 40
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER

METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

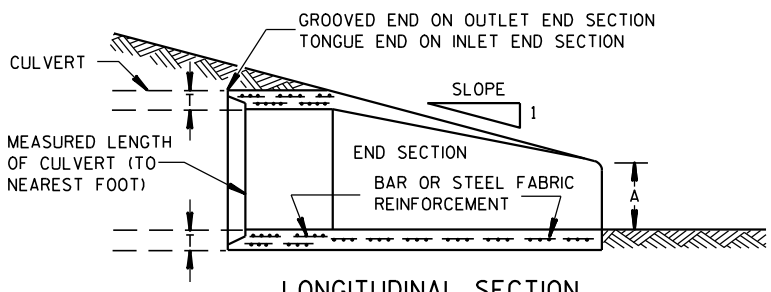
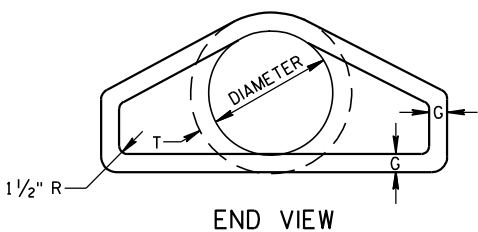
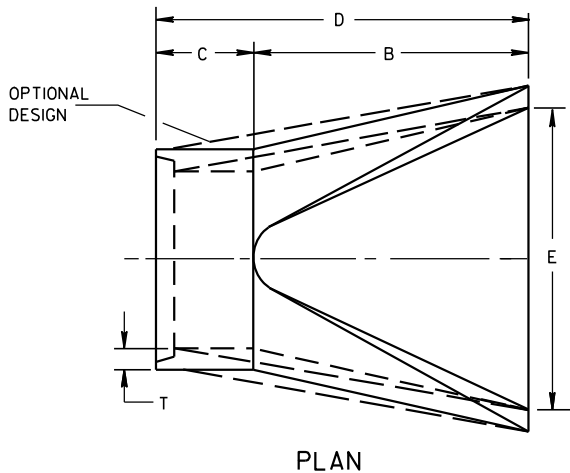
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



SIDE ELEVATION
METAL ENDWALLS

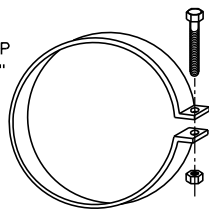
REINFORCED CONCRETE APRON ENDWALLS											
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE			
	T	A	B	C	D	E	G				
12	2	4	24	48 1/8	72 1/8	24	2	3 to 1			
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1			
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1			
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1			
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1			
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1			
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1			
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1			
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1			
48	5	24	72	26	98	84	5	3 to 1			
54	5 1/2	27	65	33 1/4	98 1/4	90	5 1/2	2 1/2 to 1			
60	6	30-35	60	39	99	96	5	2 to 1			
66	6 1/2	24-30	72-78	21-27	99	102	5 1/2	2 to 1			
72	7	24-36	78	21	99	108	6	2 to 1			
78	7 1/2	24-36	78	21	99	114	6 1/2	2 to 1			
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1			
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1			

* MINIMUM
** MAXIMUM

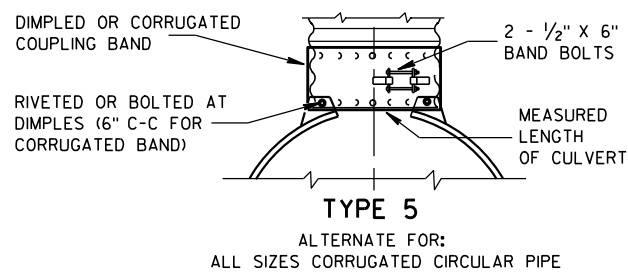
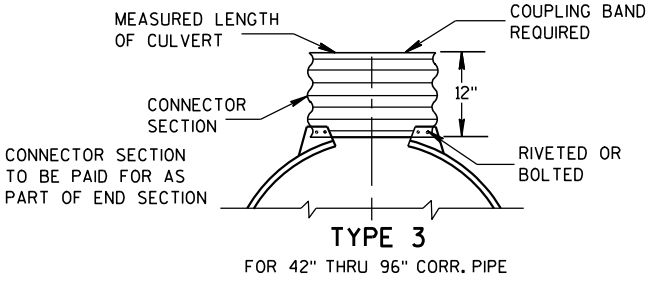
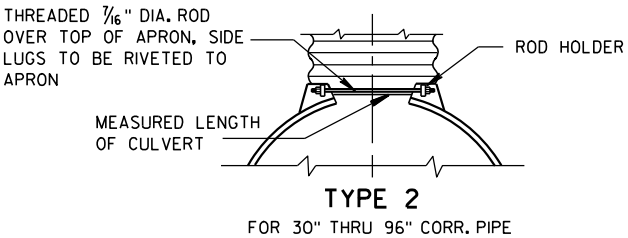
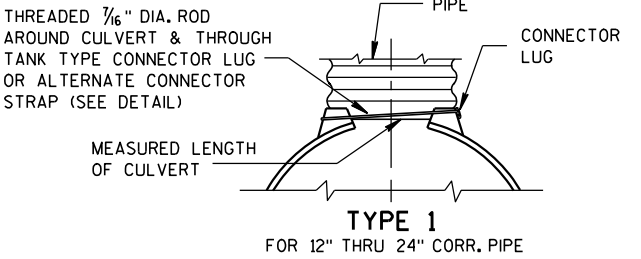


LONGITUDINAL SECTION
CONCRETE ENDWALLS

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



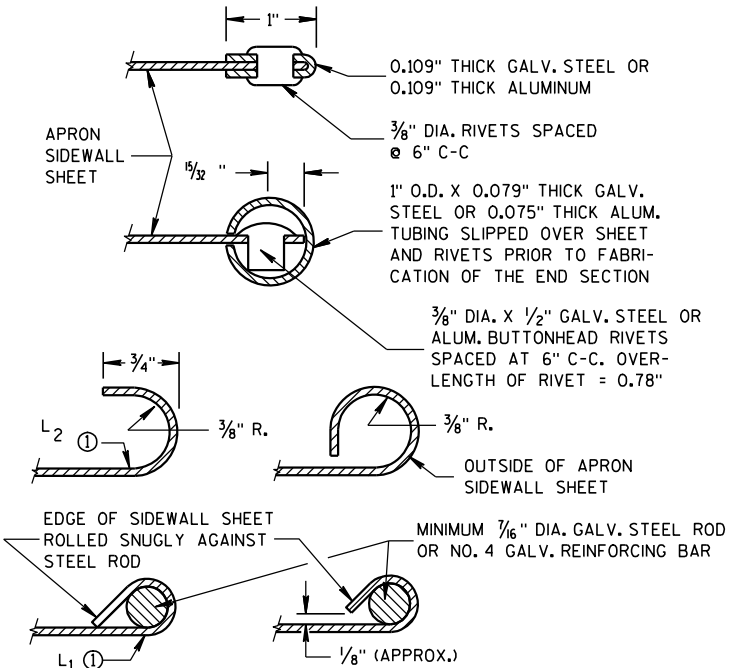
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

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

CONNECTION DETAILS



SECTION A-A

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 PERIMETER.

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

APPROVED
11/30/94
DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOP 41
NEER
FHWA

GENERAL NOTES

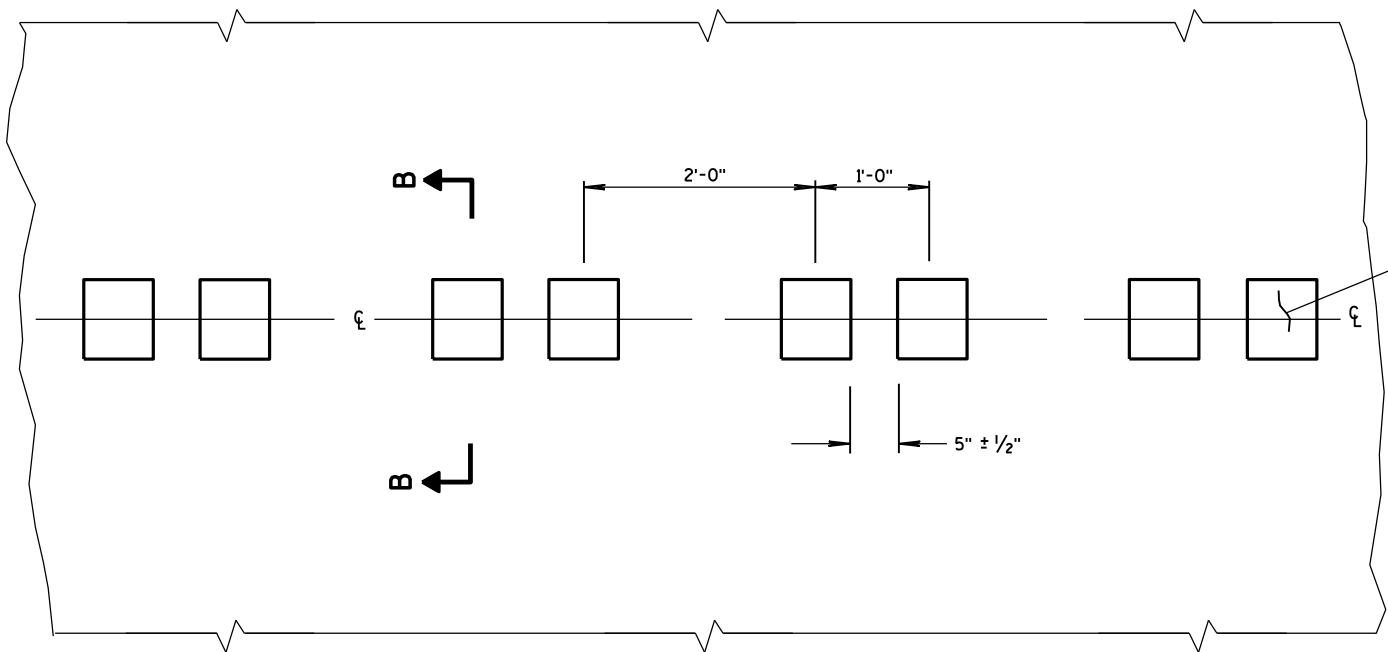
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

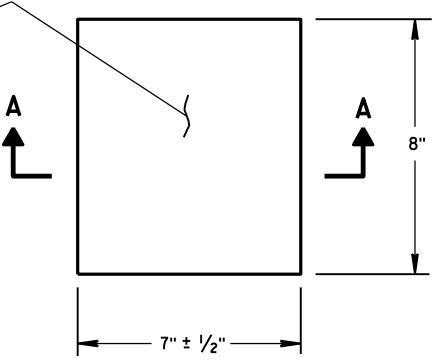
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

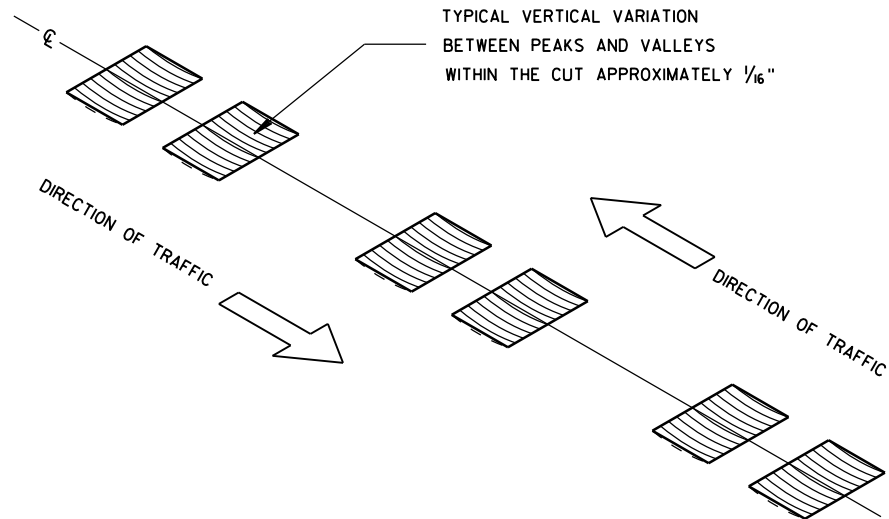
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



PLAN VIEW
CENTER LINE WITH GROOVES

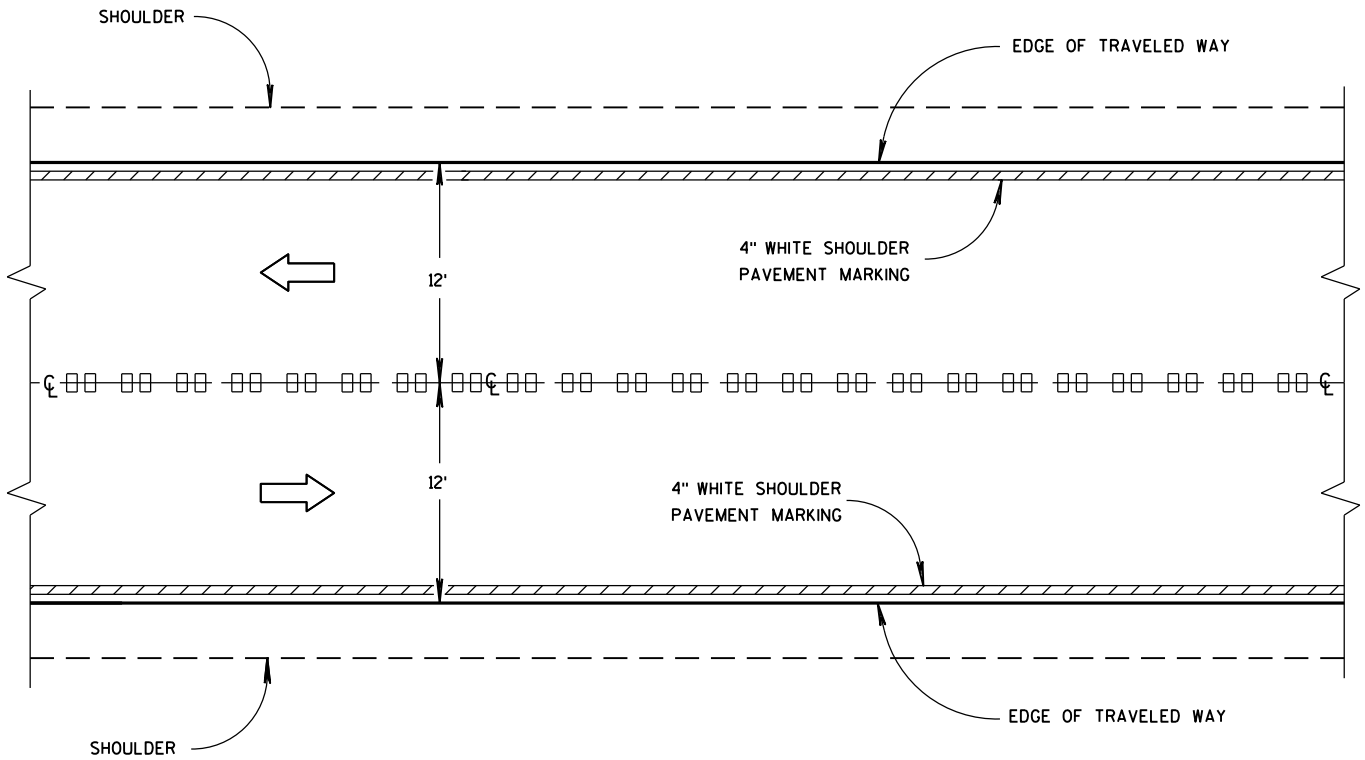


PLAN VIEW
(SINGLE GROOVE)

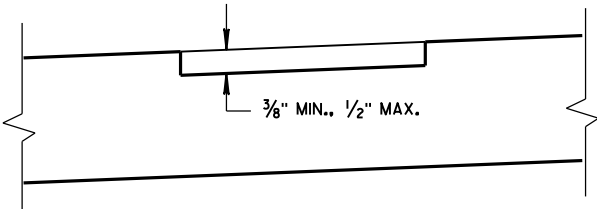


ISOMETRIC

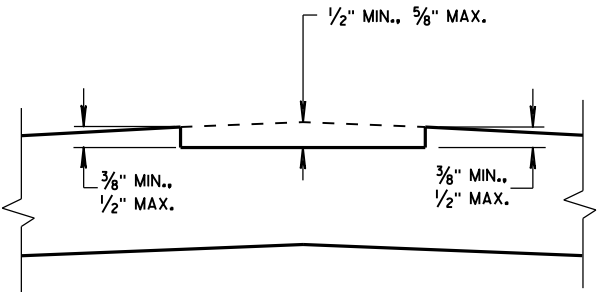
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



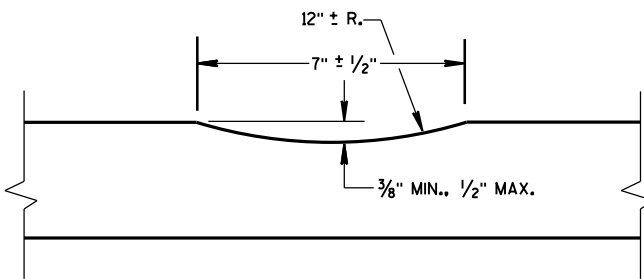
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



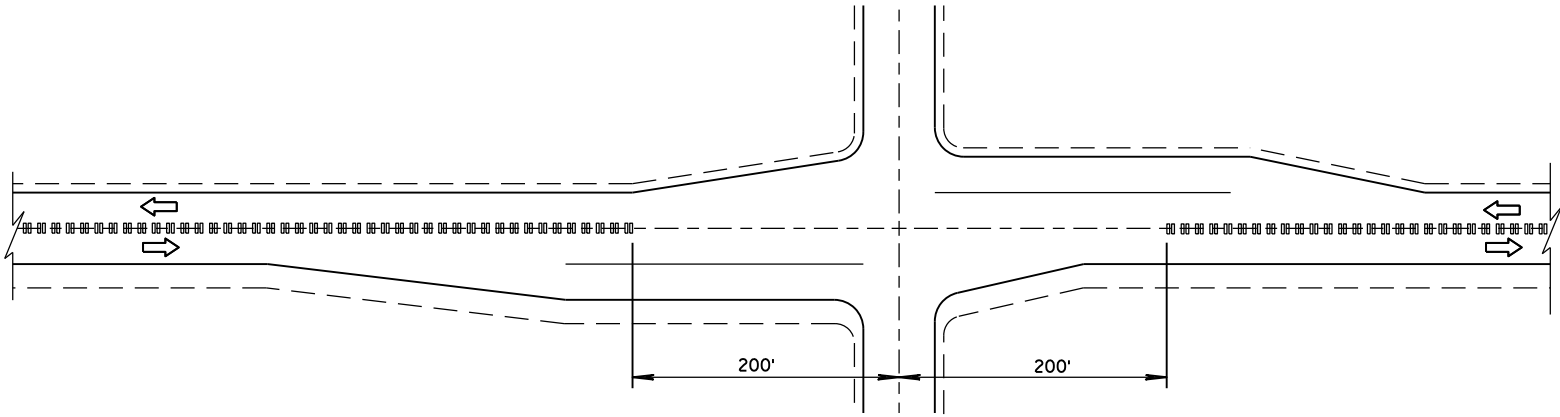
SECTION B-B
CROWNED ROADWAY



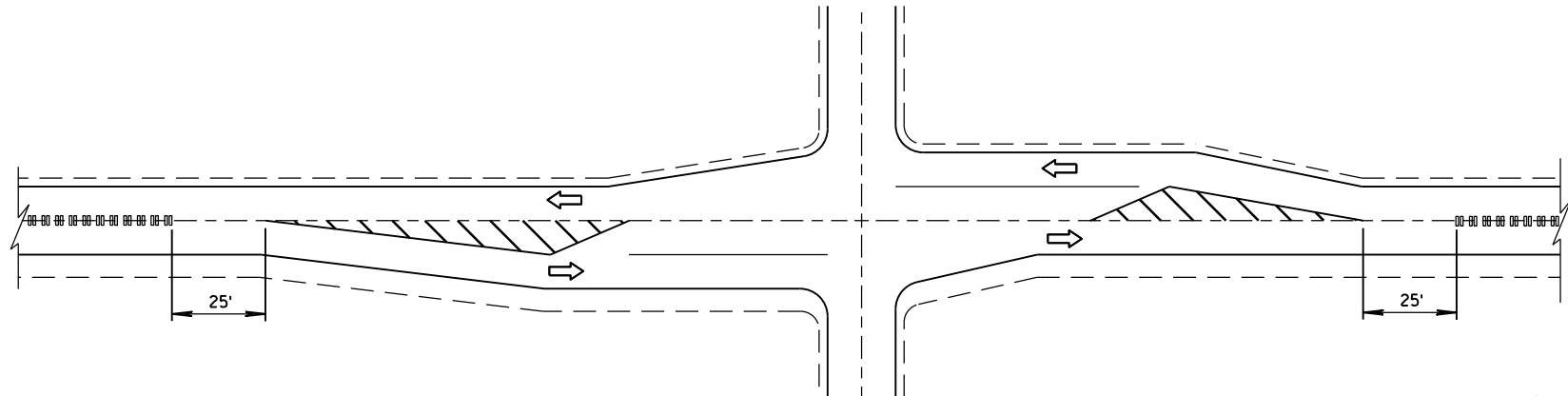
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

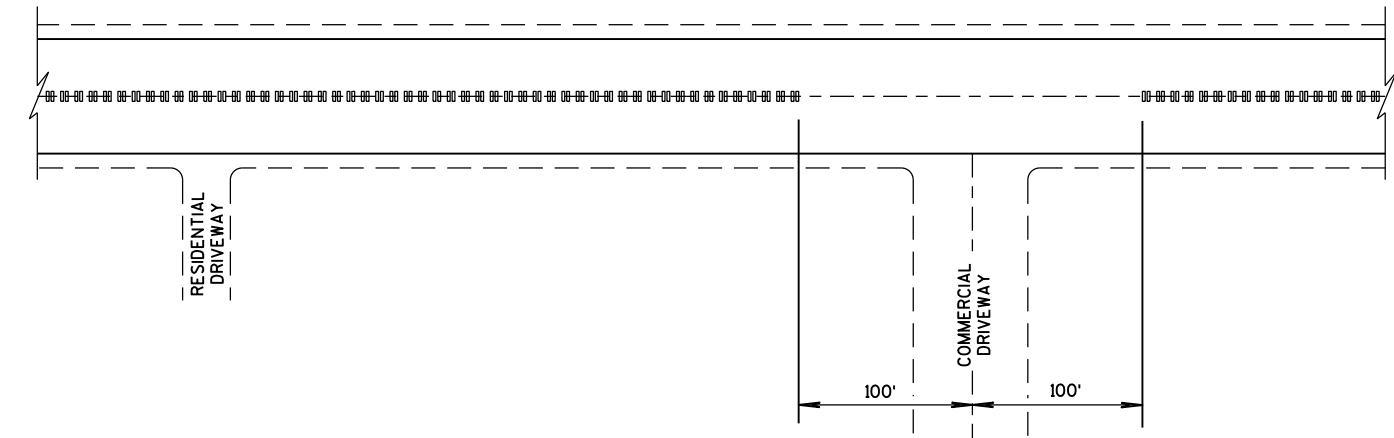
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

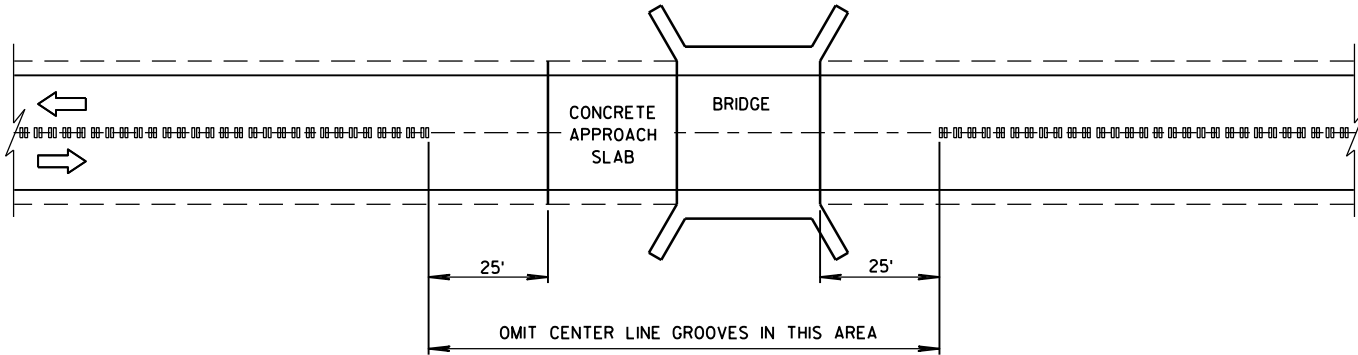


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

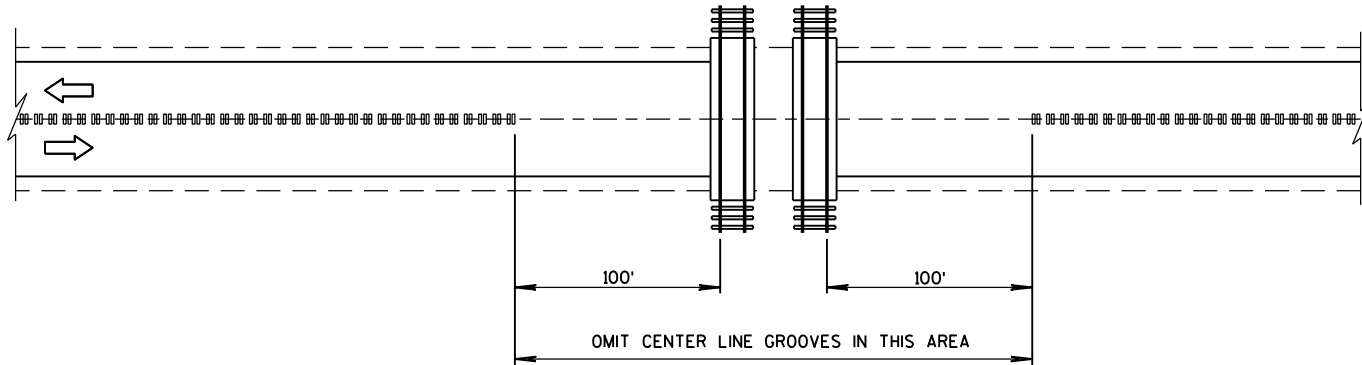


CENTER LINE GROOVES AT DRIVEWAYS^①

^① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

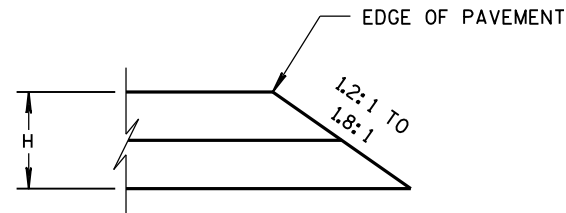


CENTER LINE GROOVES AT BRIDGES

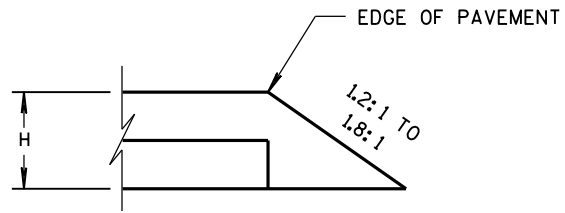


CENTER LINE GROOVES AT RAILROADS

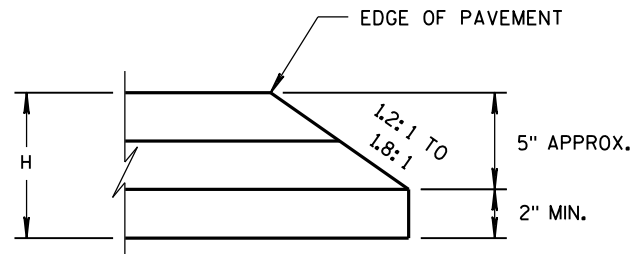
2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 5/15/2013	/S/ Jerry H. Zoog ROADWAY STANDARDS ENGINEER 43 NT
FHWA	



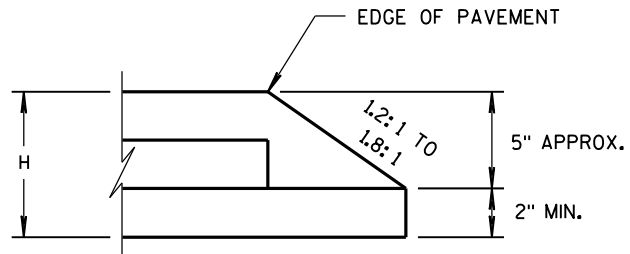
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

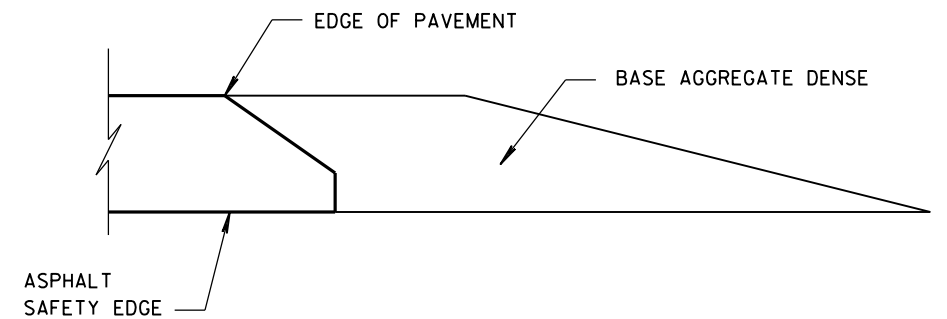


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



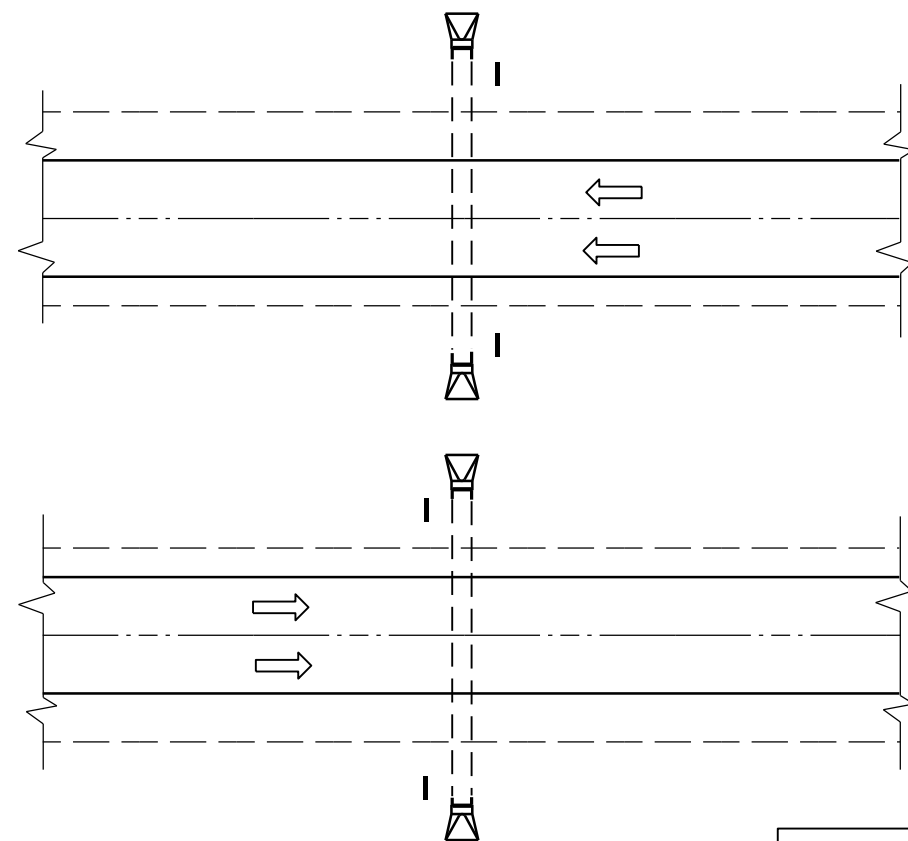
CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS

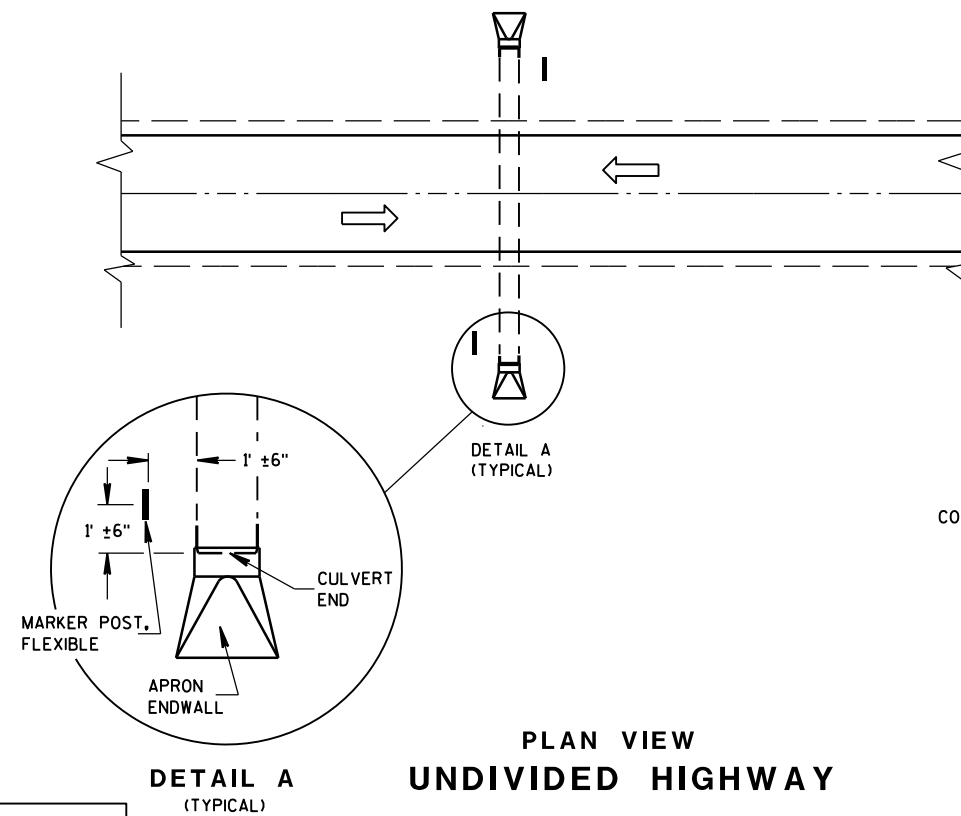
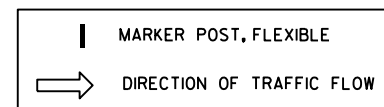


FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE _{SM}		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED DATE 11/30/2012	/S/ Jerry H. Zoaga ROADWAY STANDARDS ENGINEER	44 INT
FHWA		



PLAN VIEW
DIVIDED HIGHWAY

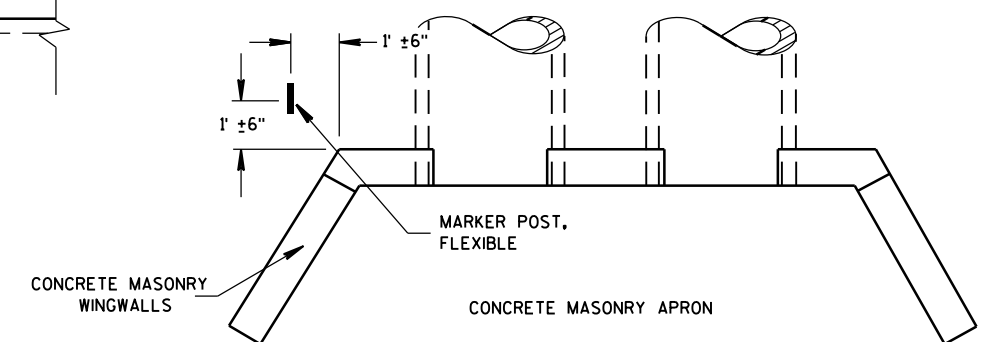


PLAN VIEW
UNDIVIDED HIGHWAY

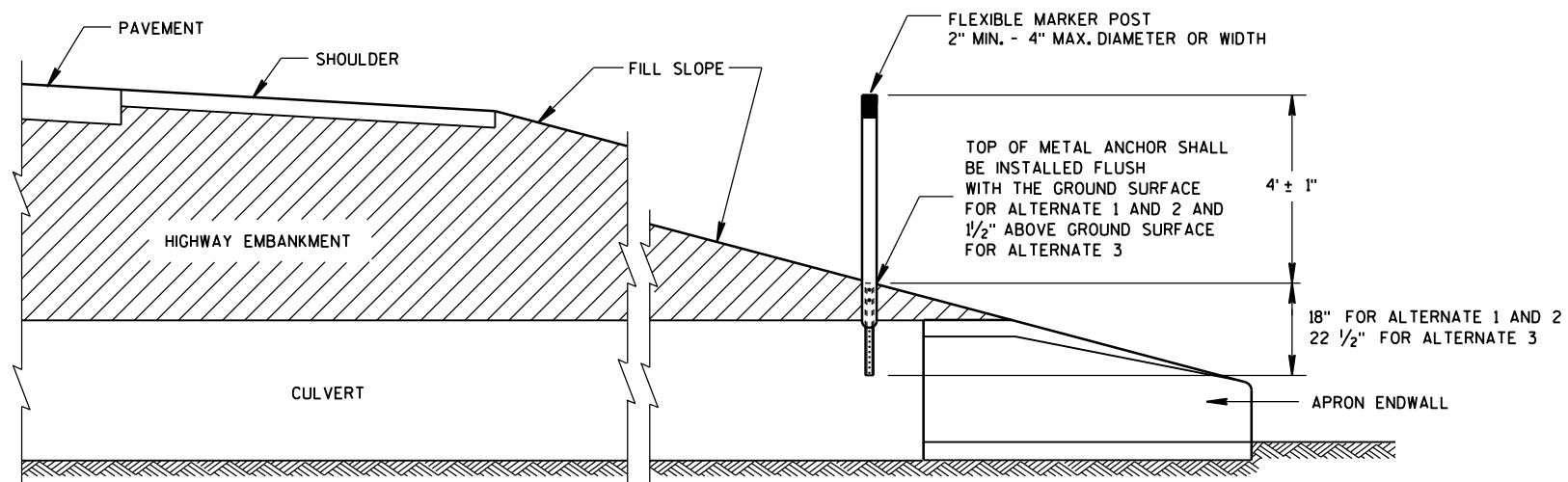
FLEXIBLE MARKER POST LOCATION

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.



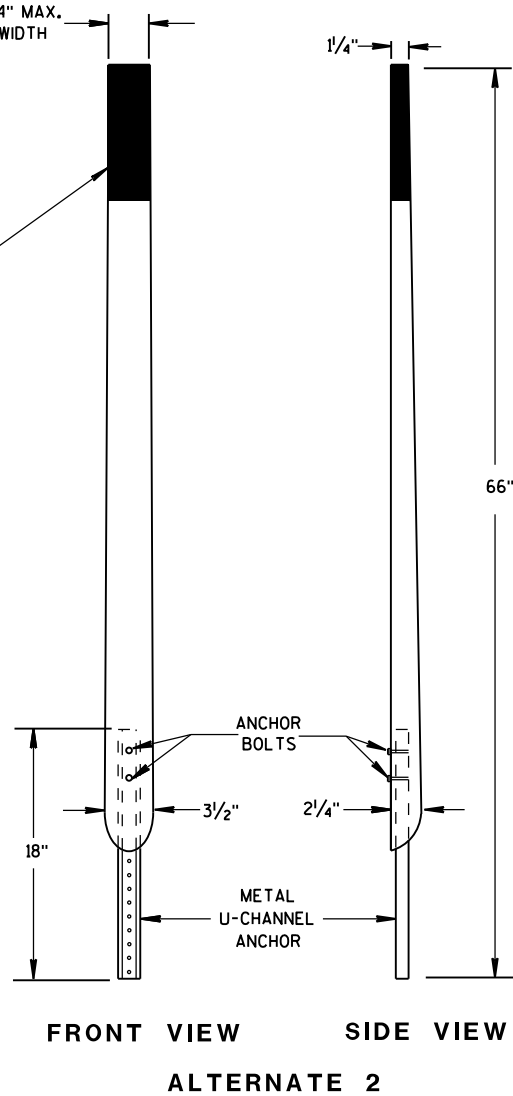
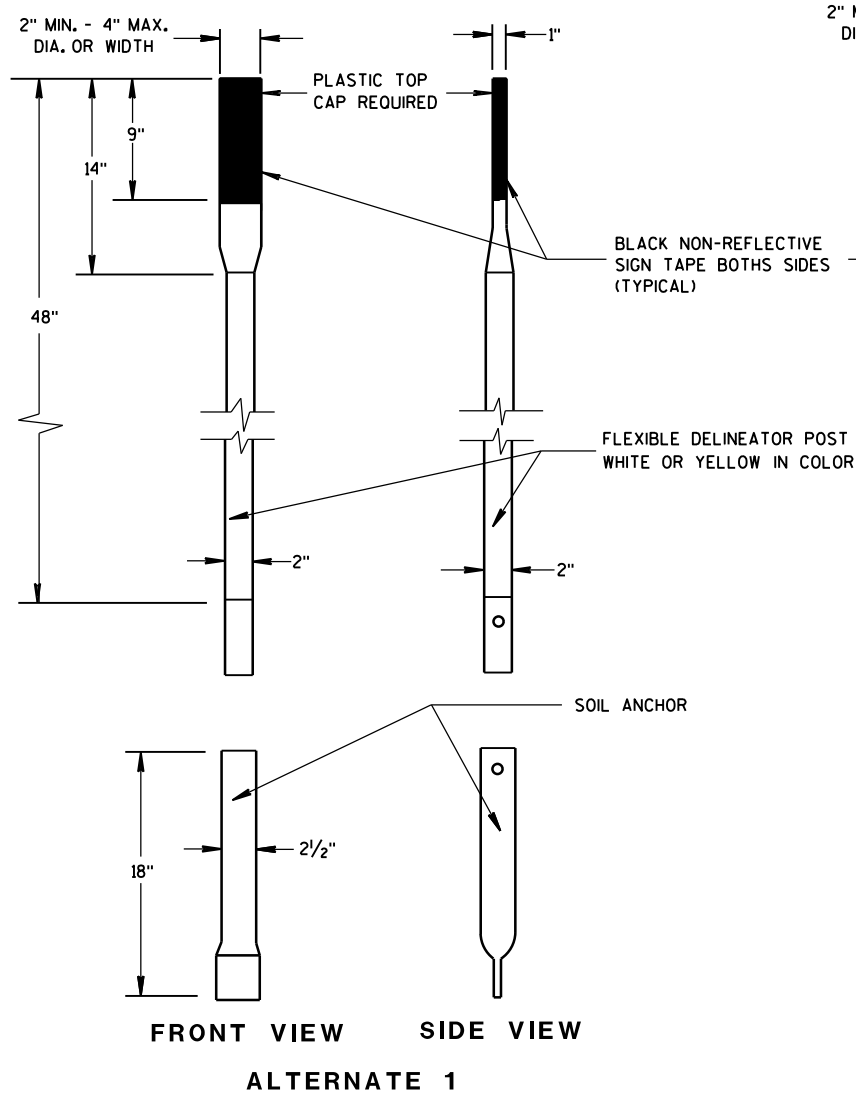
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



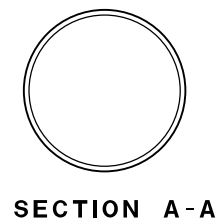
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

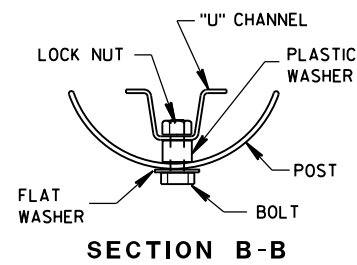
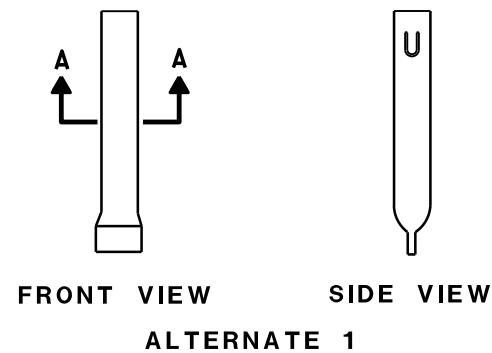
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



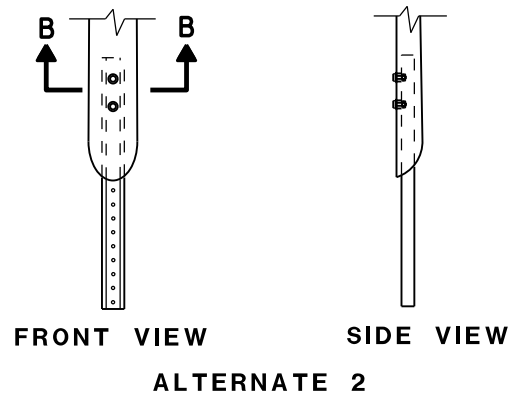
FLEXIBLE MARKER POSTS



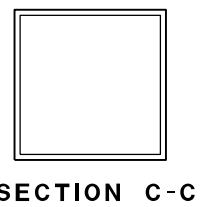
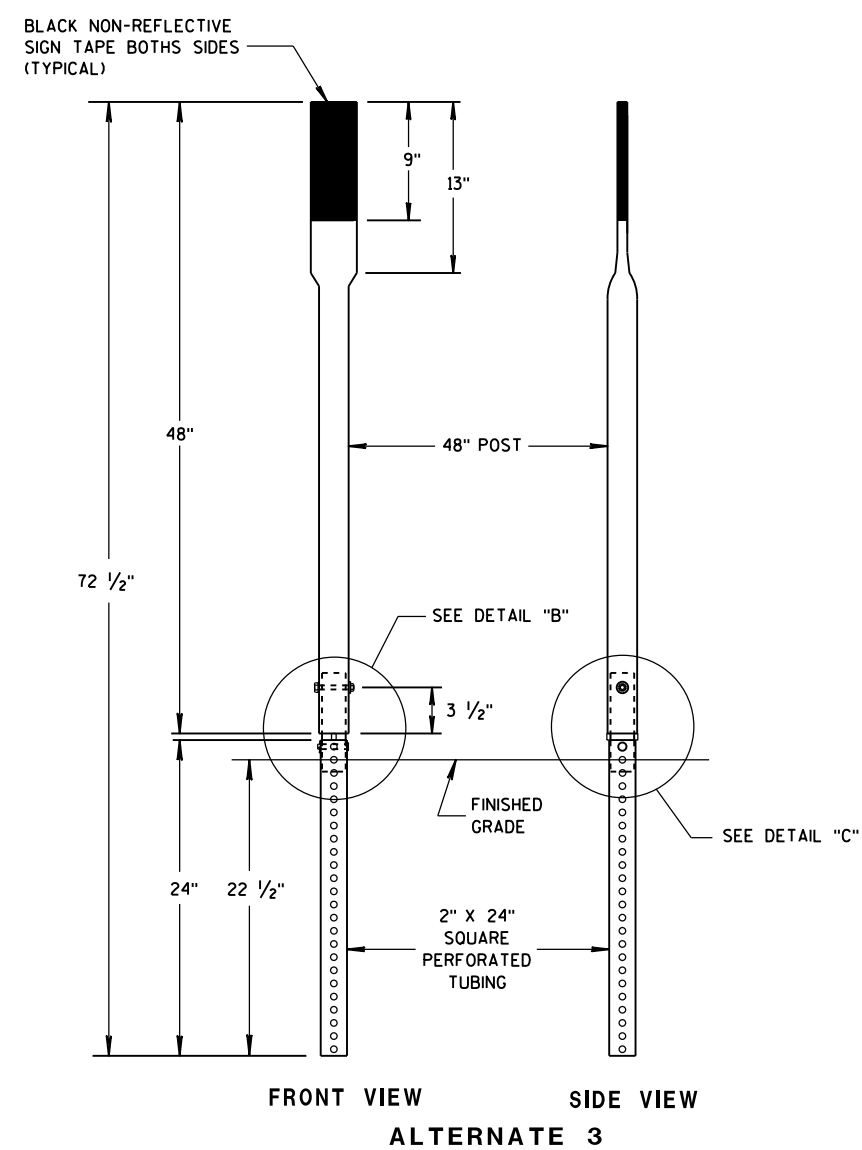
SECTION A-A



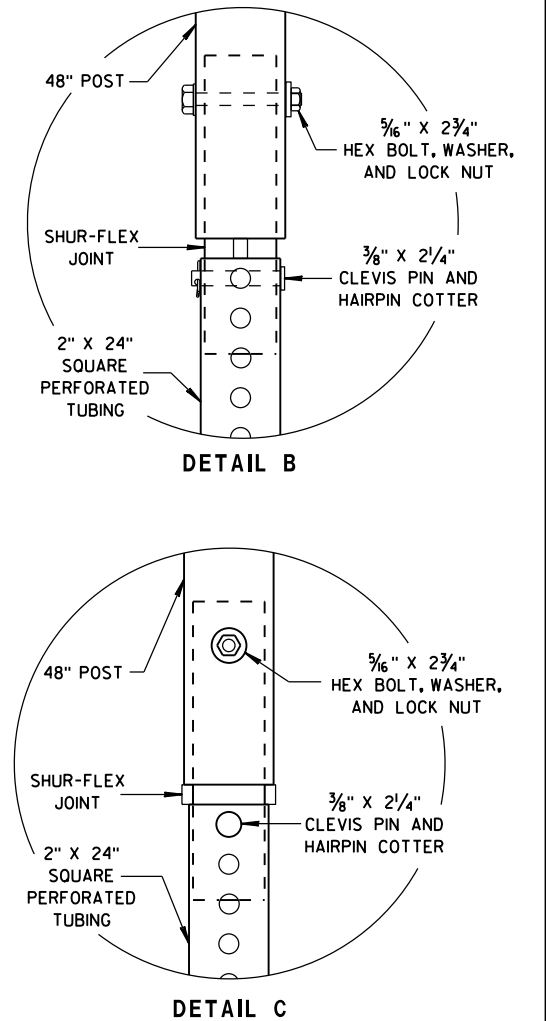
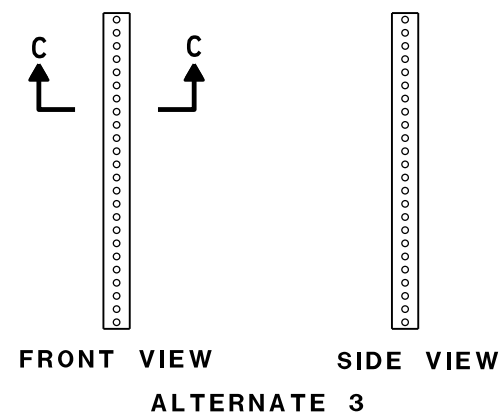
SECTION B-B



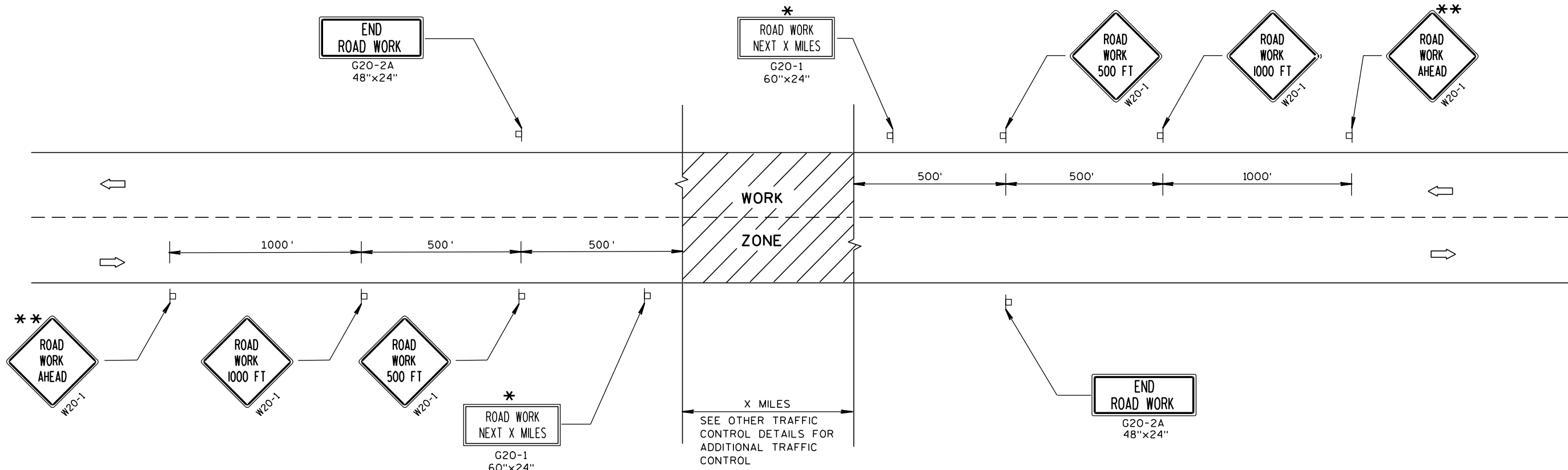
FLEXIBLE MARKER POST ANCHORS



SECTION C-C



FLEXIBLE MARKER POST FOR CULVERT END		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER 46	IGN
FHWA		



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

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 MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

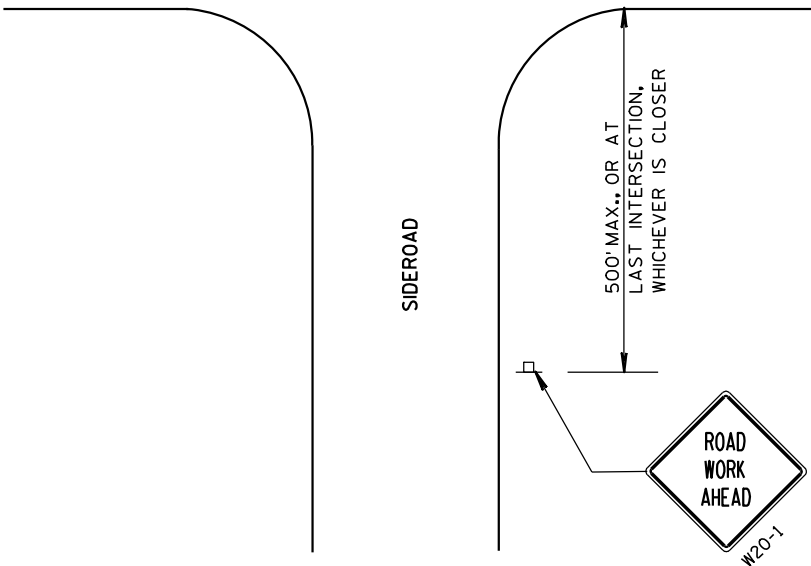
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

CENTER OF ROADWAY

MAINLINE ROADWAY UNDER CONSTRUCTION



LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

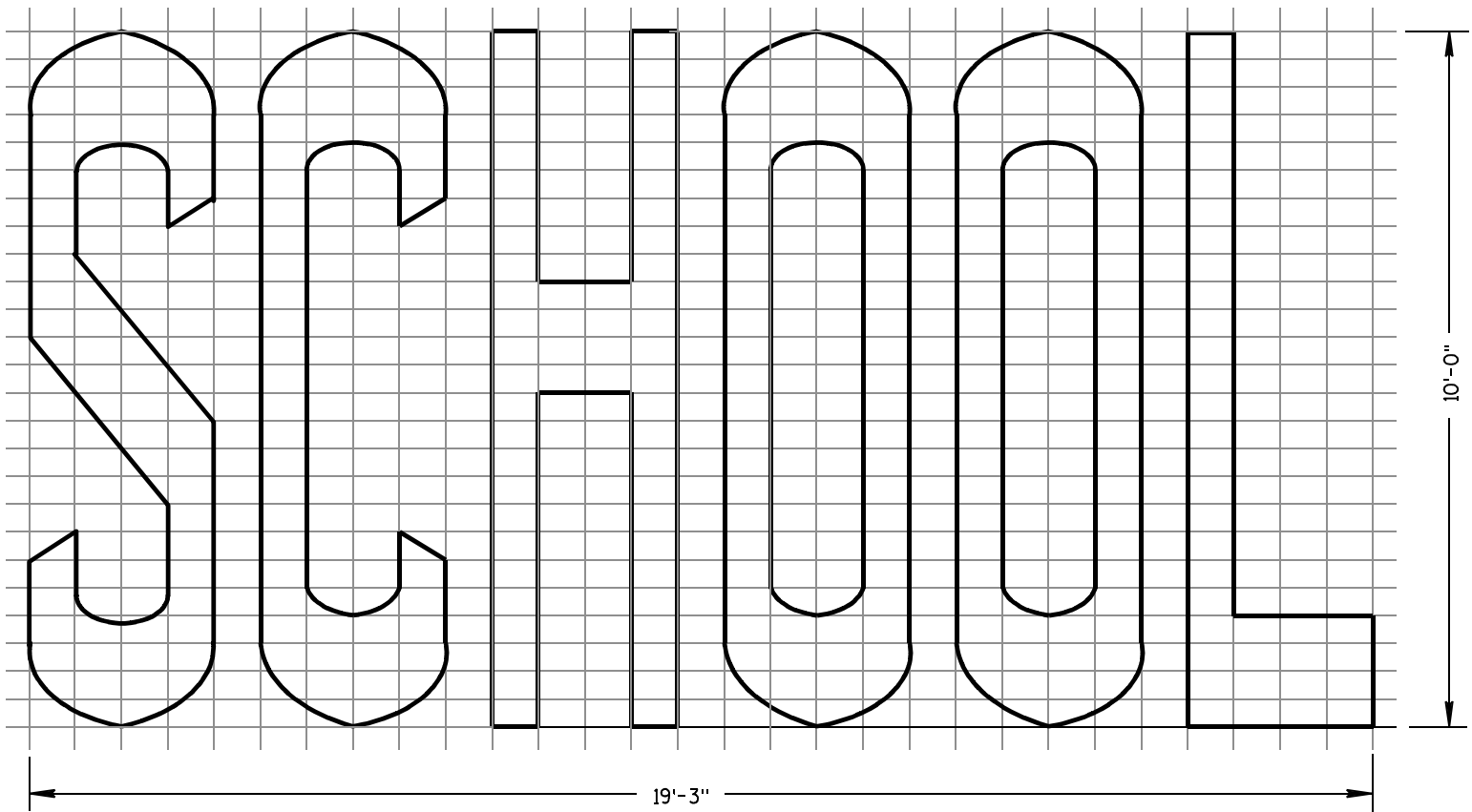
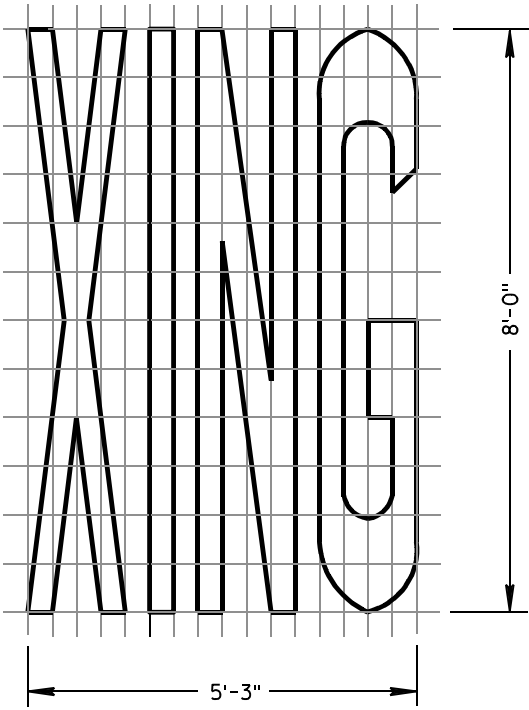
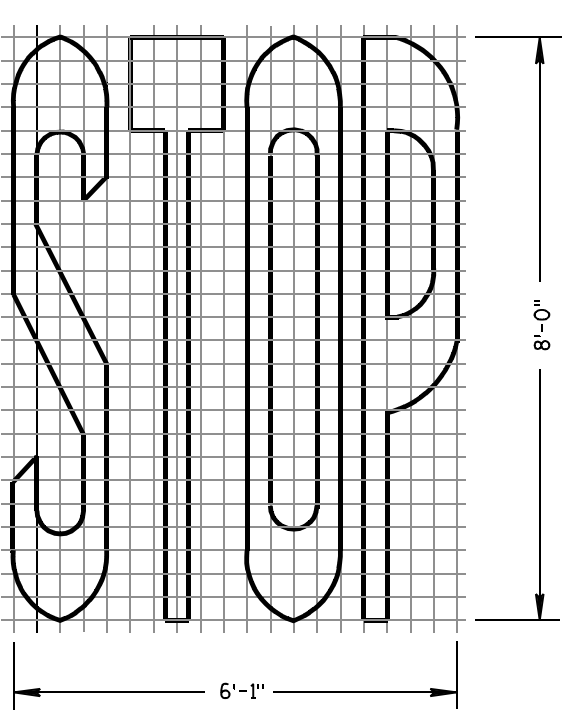
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. Neer
DATE CHIEF SIGNS AND MARKINGS
FHWA

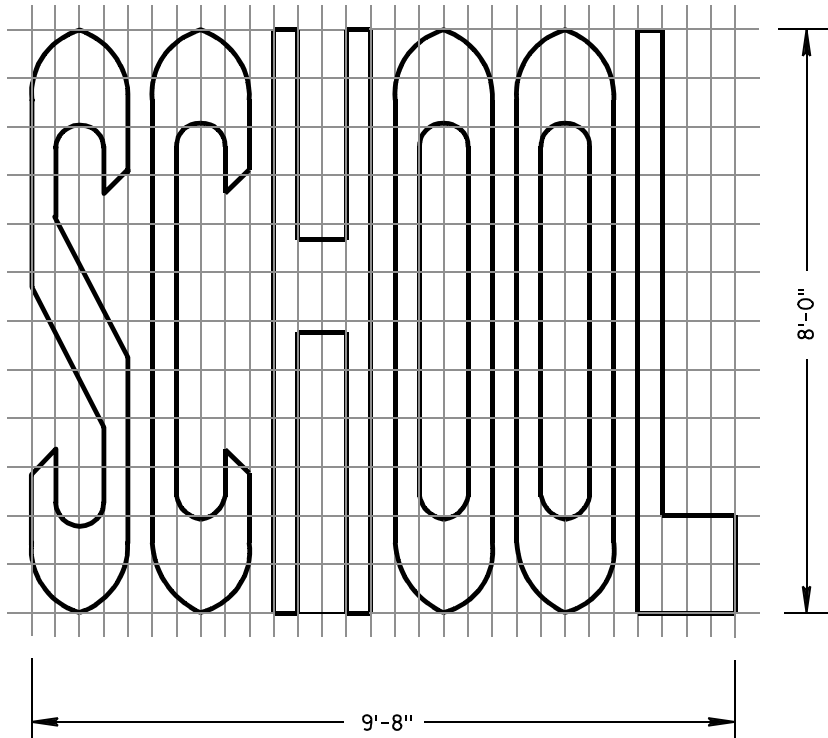
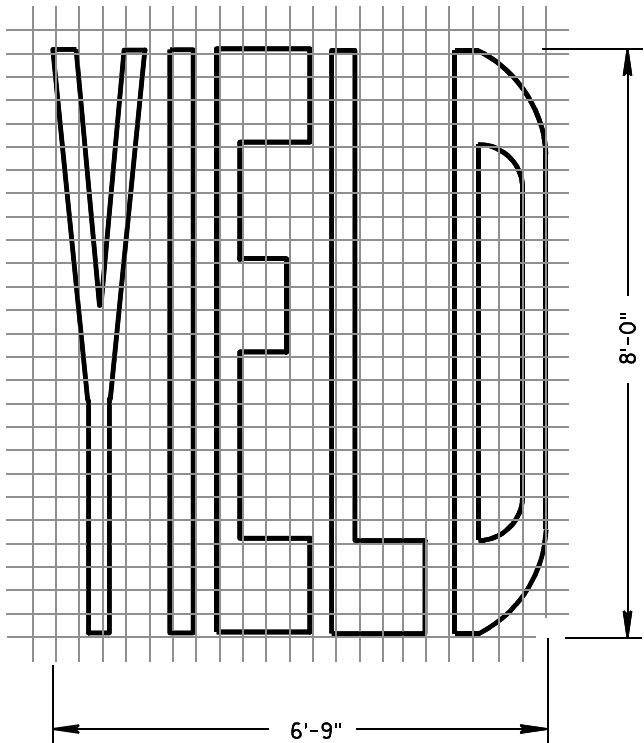
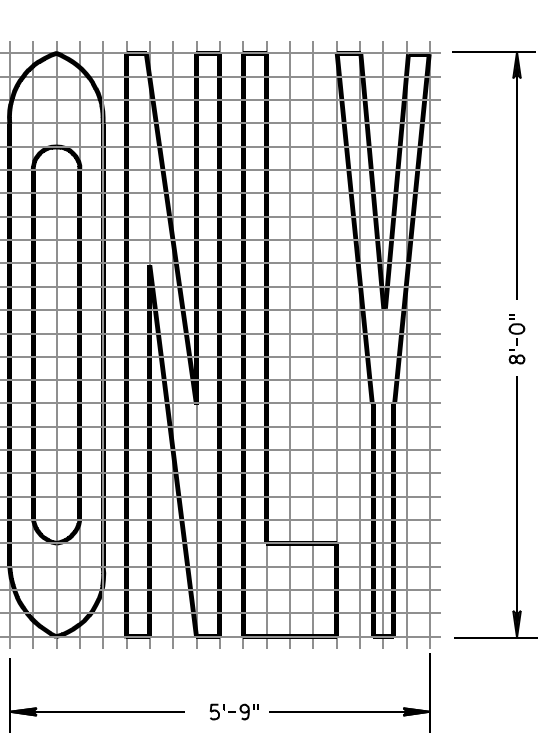
GENERAL NOTES

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.

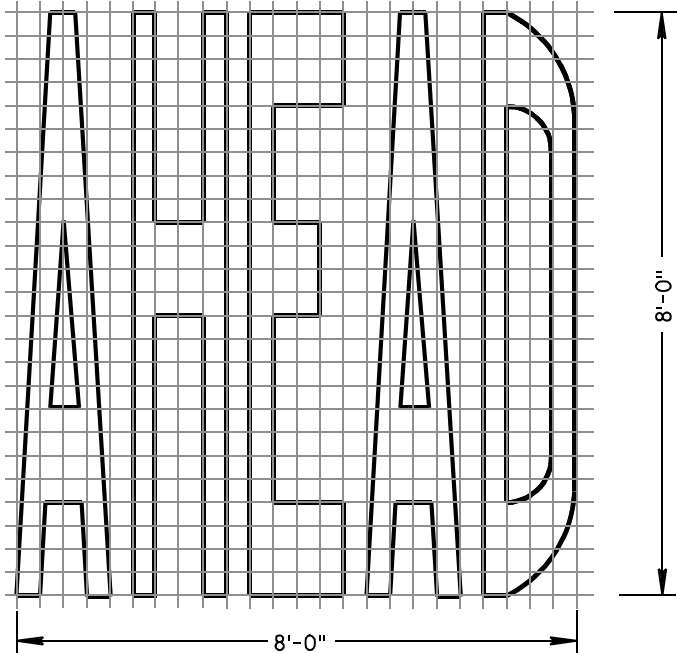
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

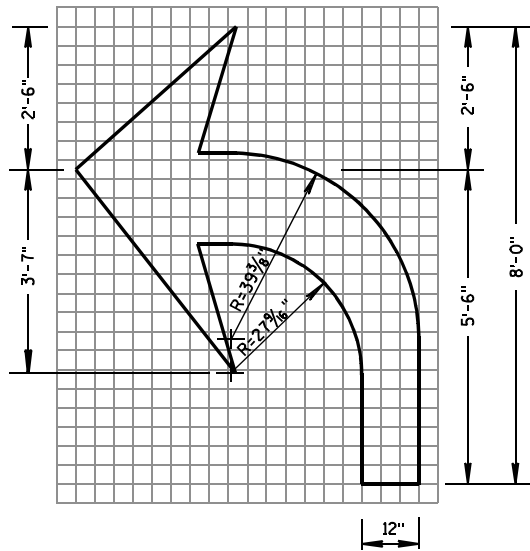
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

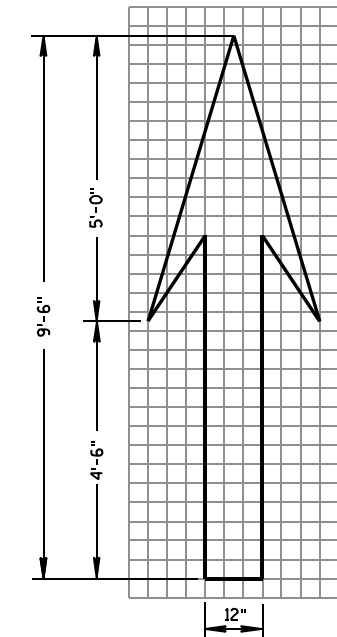
7-1-11
DATE

/S/ Thomas N. Nothmann
STATE TRAFFIC ENGINEER 48 IGN

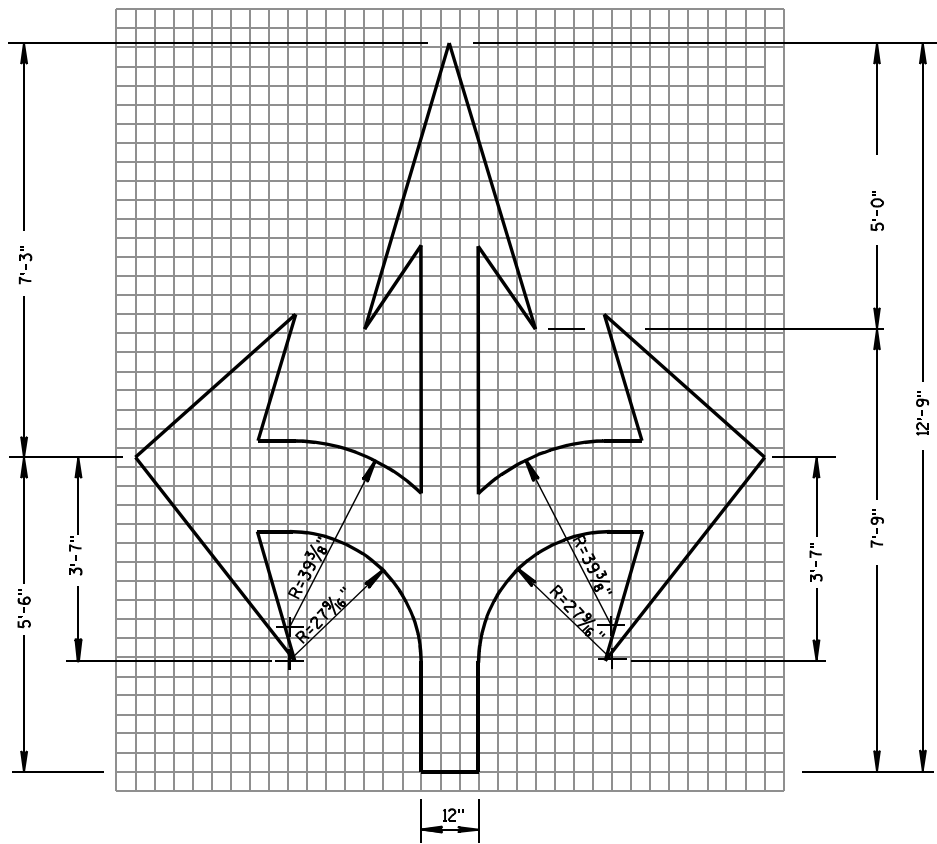
FHWA



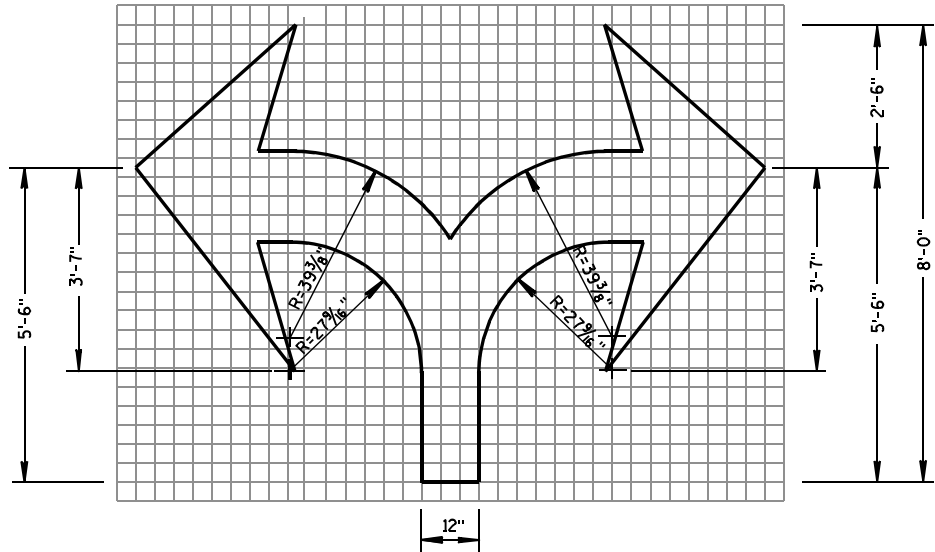
TYPE 2



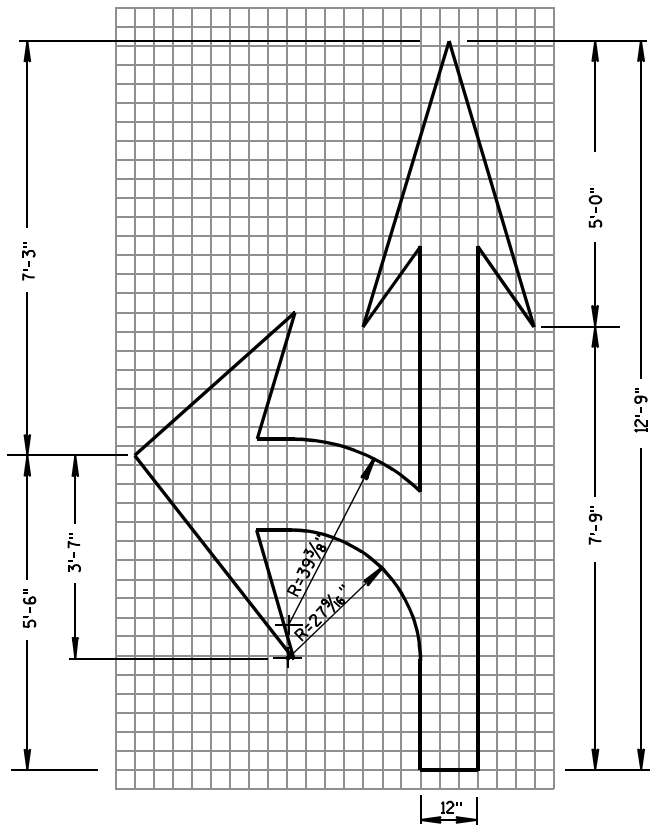
TYPE 1



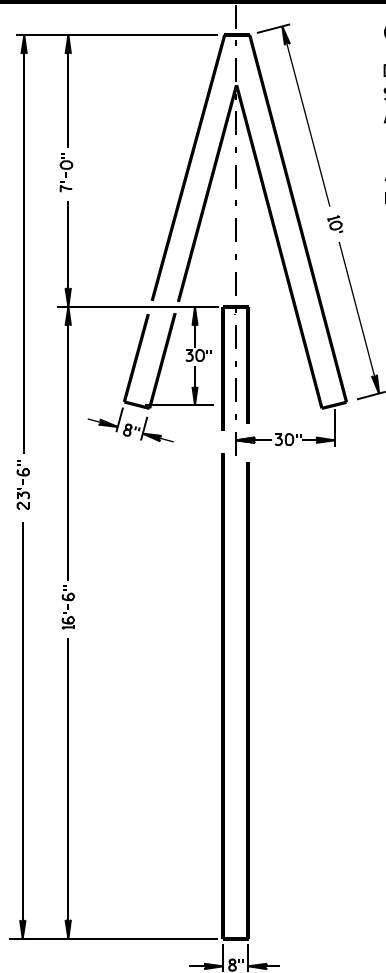
TYPE 6



TYPE 7



TYPE 3

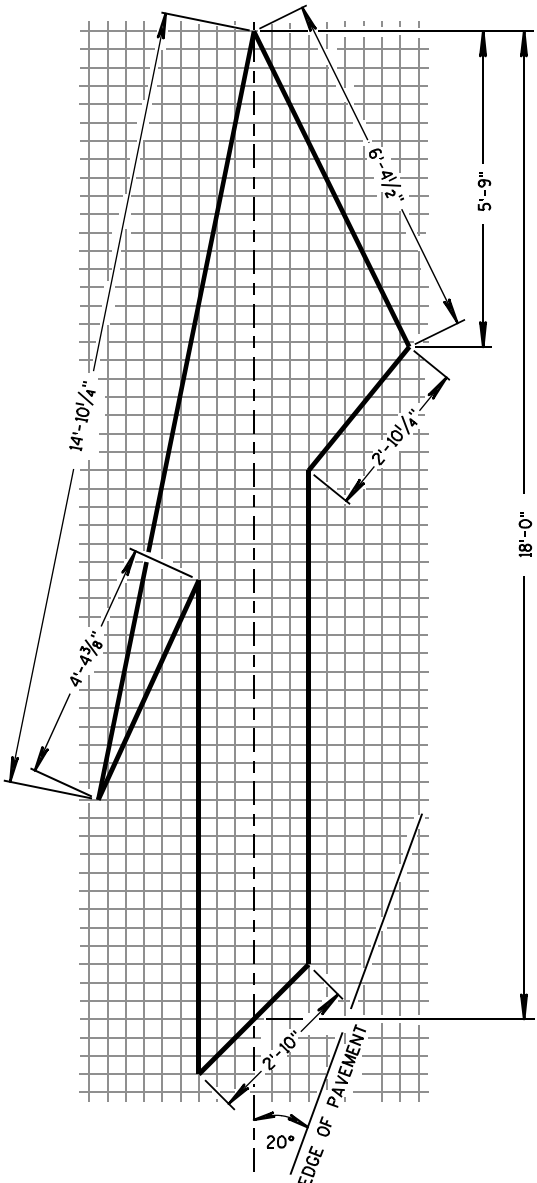


TYPE 4

GENERAL NOTES

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

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

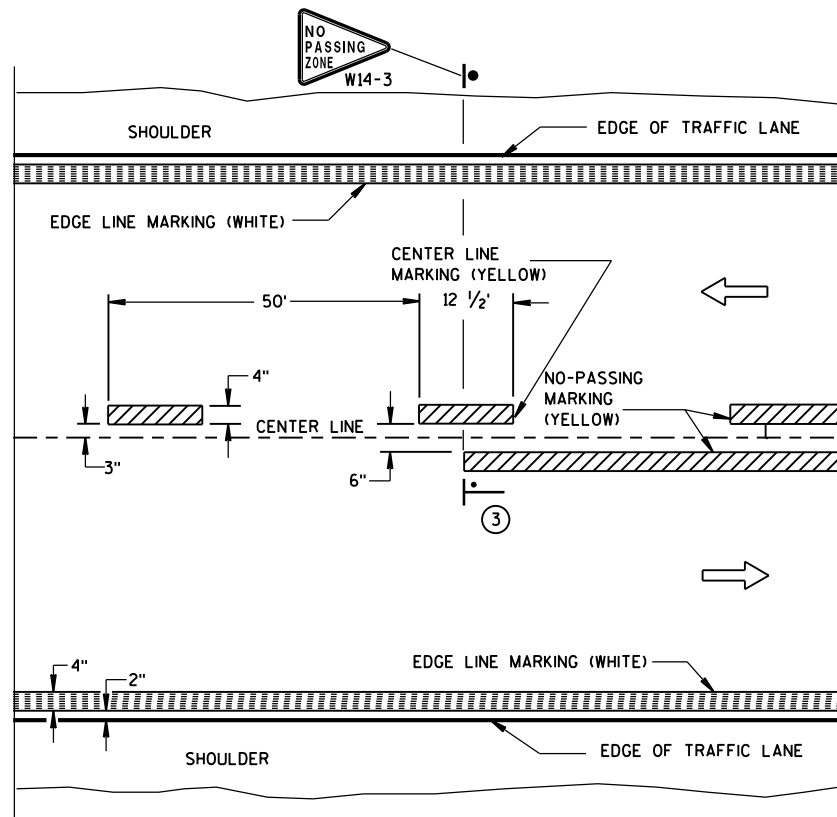


TYPE 5 LANE DROP ARROW

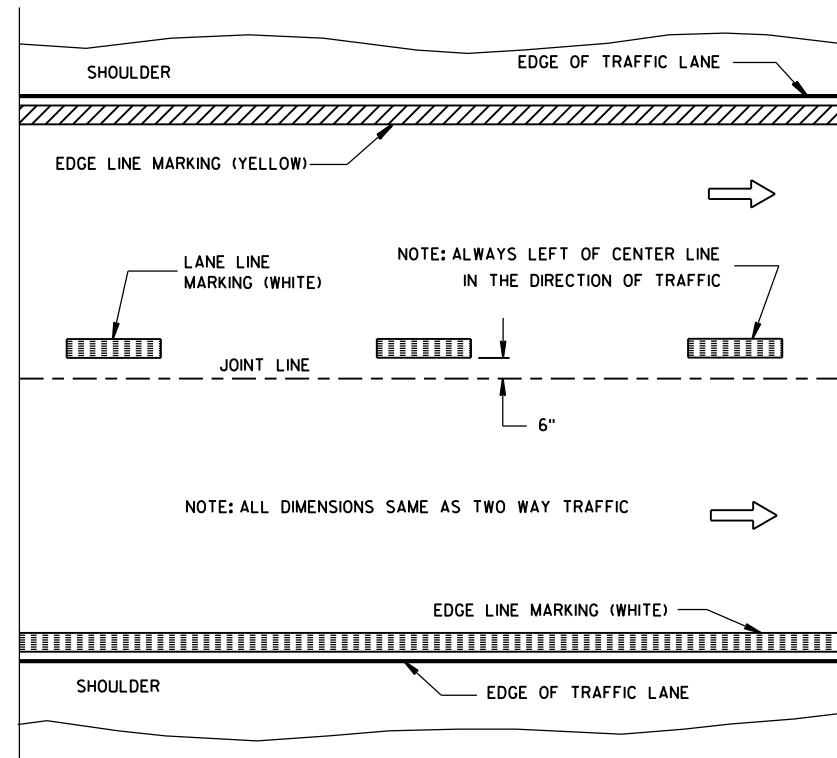
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/1/11 DATE /S/ Thomas N. Nathahn
STATE TRAFFIC ENGINE 49 SIGN
FHWA

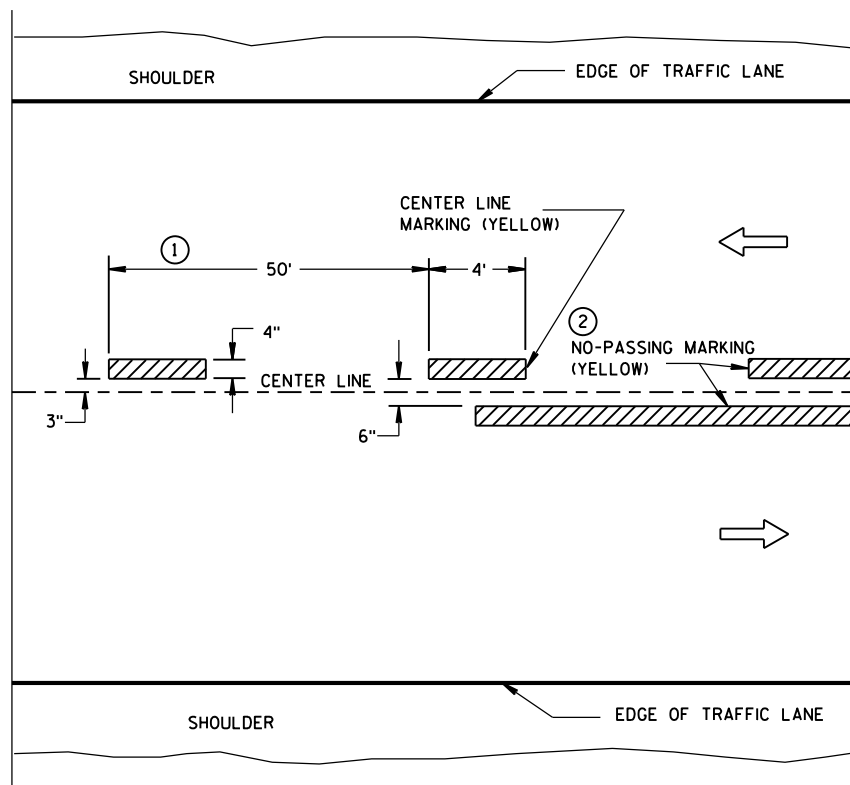


TWO WAY TRAFFIC

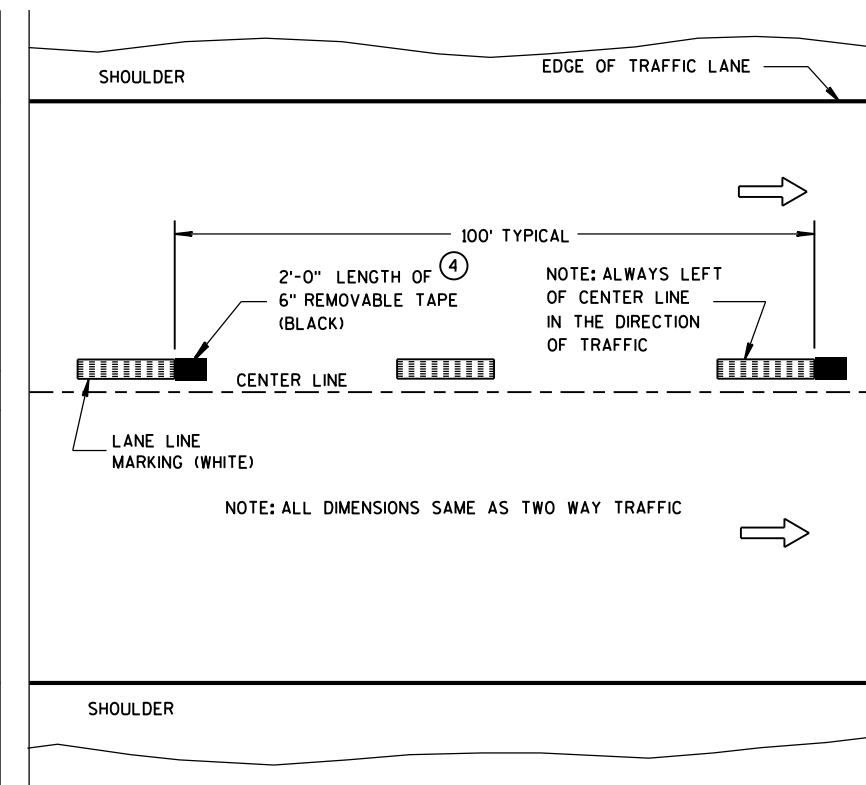


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

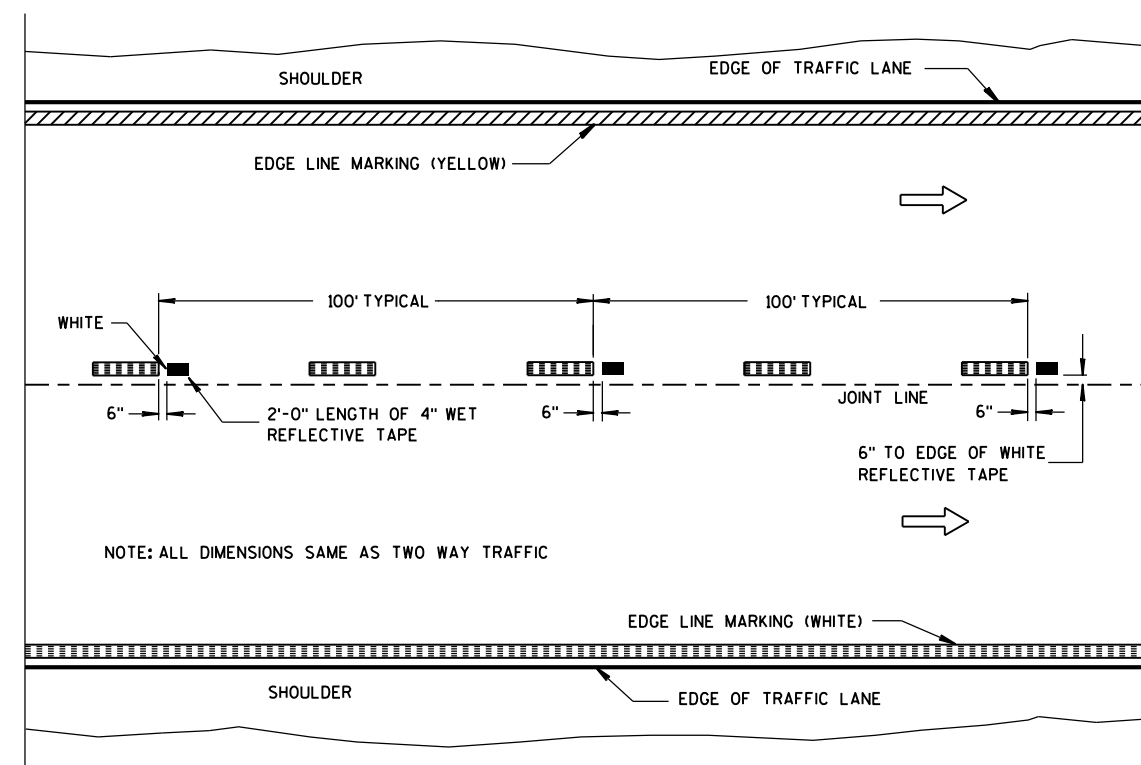
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

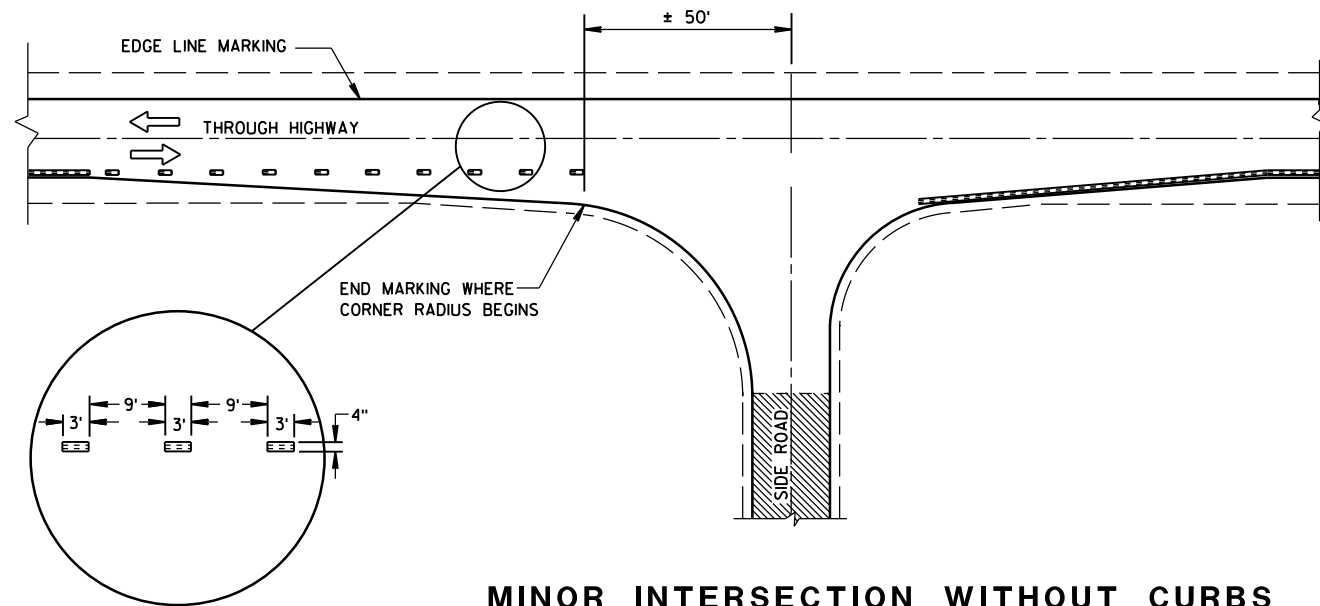
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-1-2012 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER 50 :SIGN
FHWA



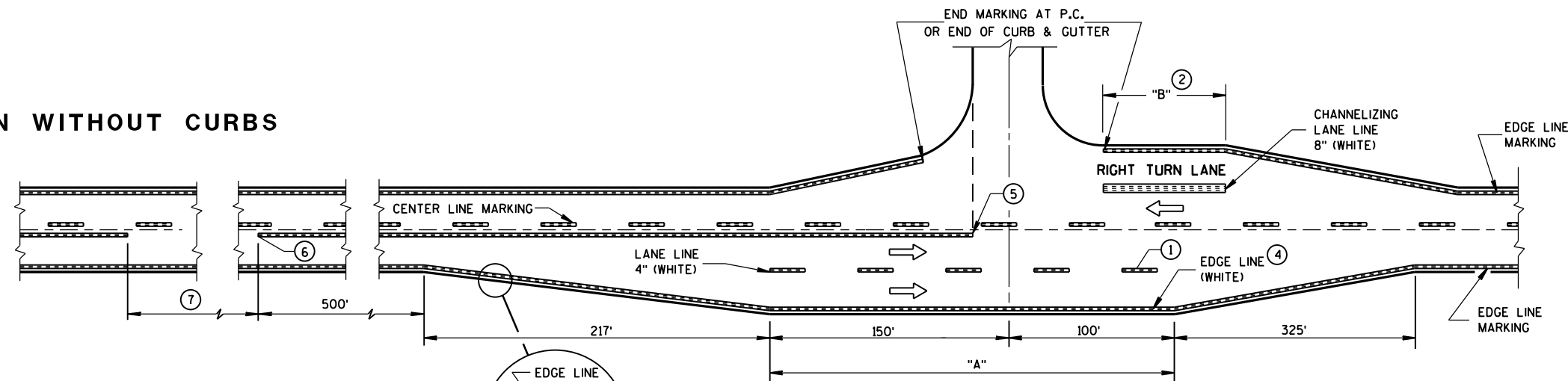
MINOR INTERSECTION WITHOUT CURBS

⑦

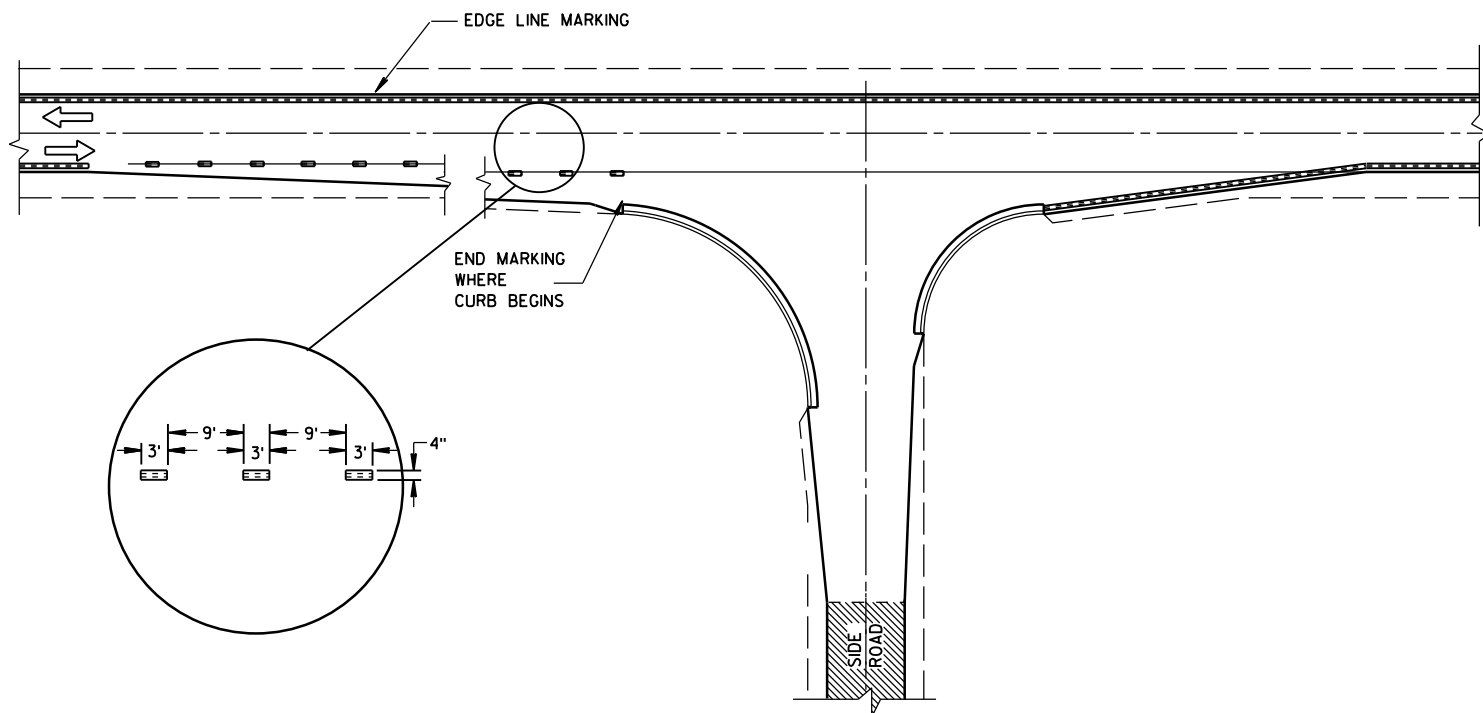
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792

GENERAL NOTES

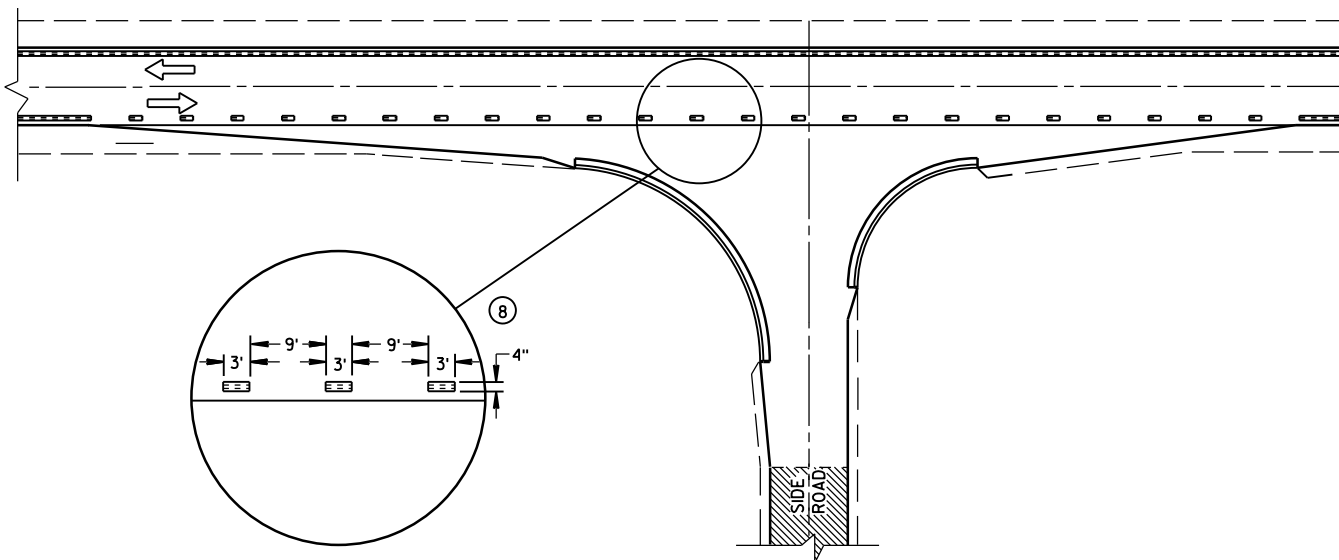
- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



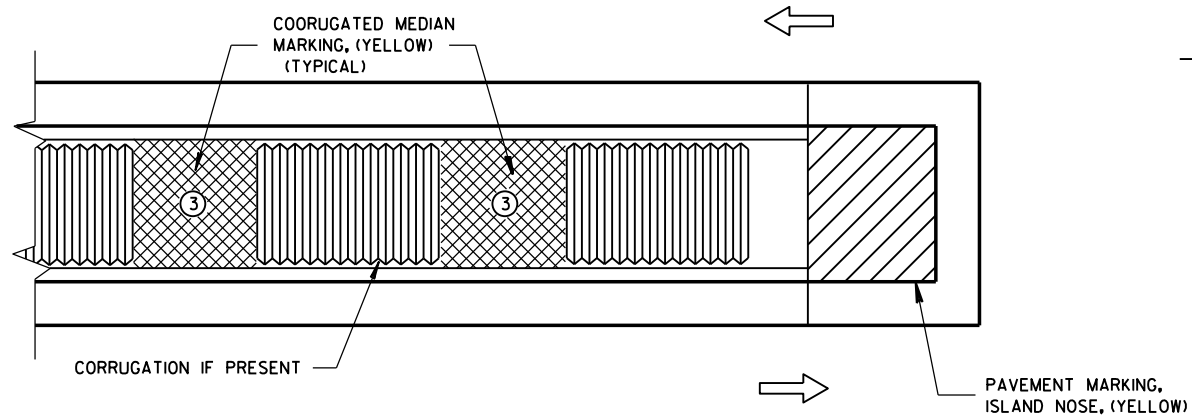
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



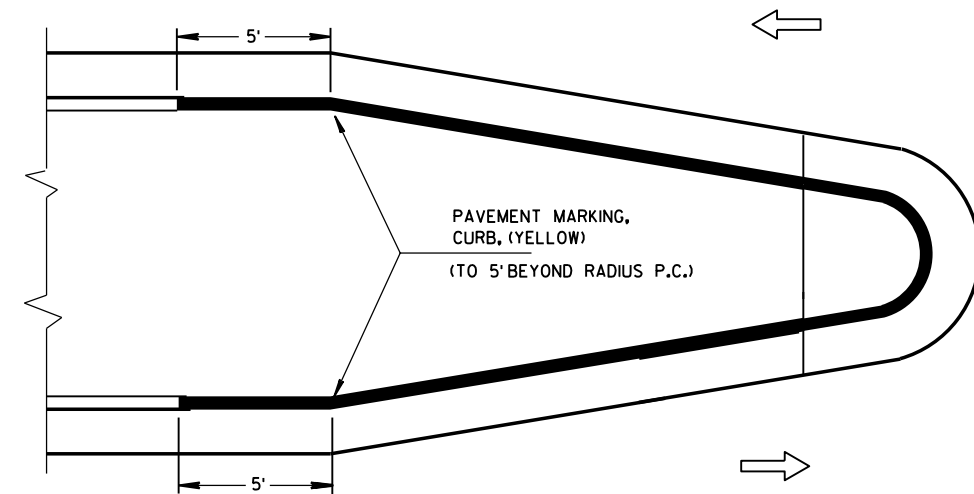
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

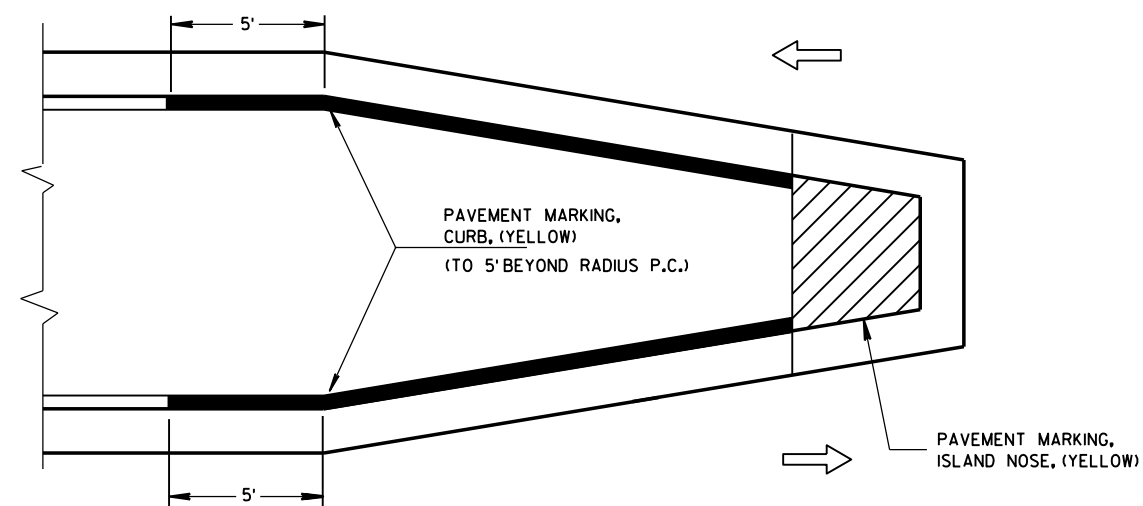
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

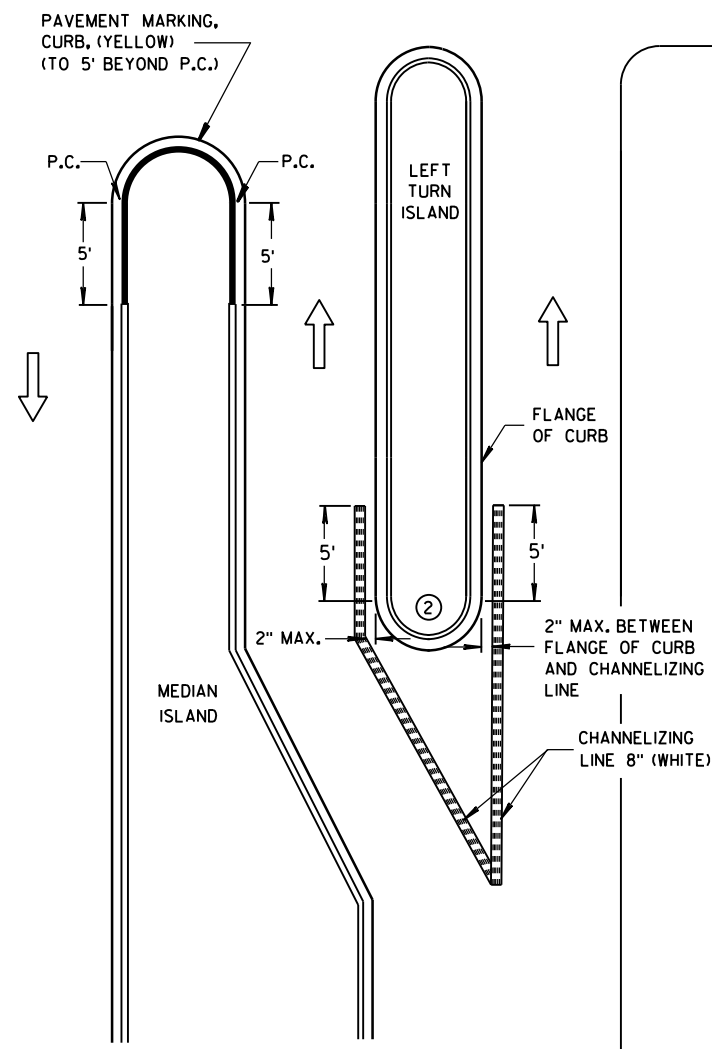


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

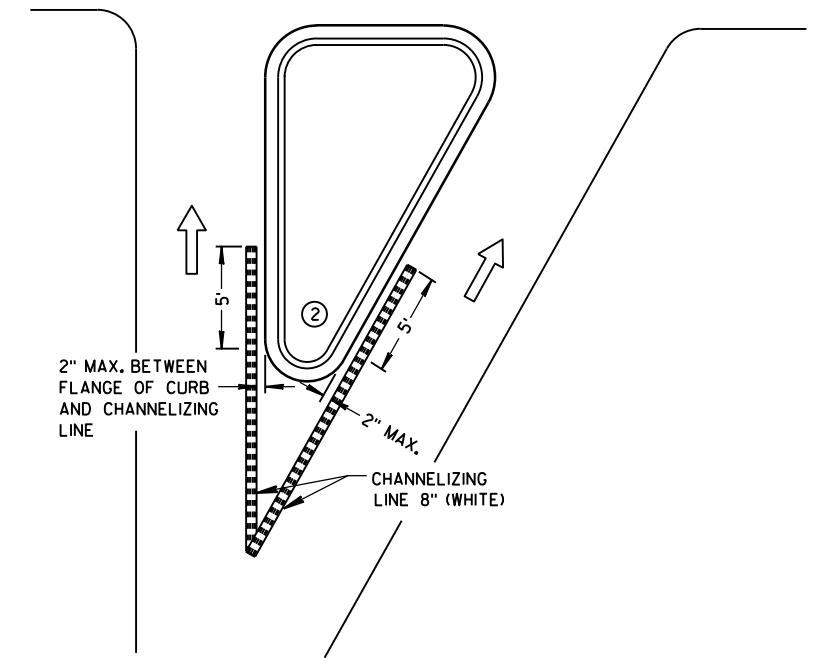
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

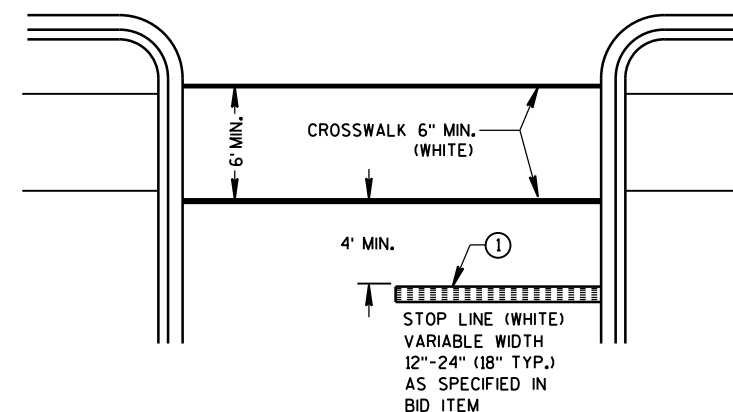
- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL



STOP LINE AND CROSSWALK

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TWO-LANE ROADWAY

SYMBOLS



WORK AREA



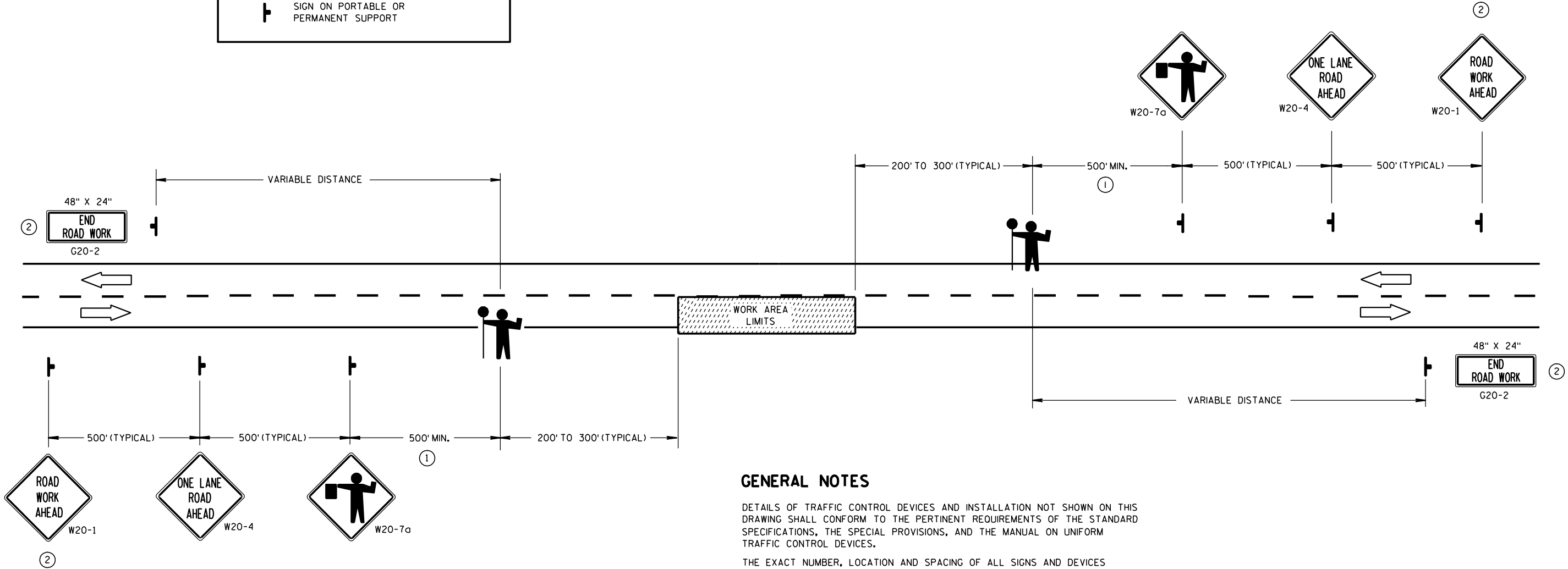
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



SIGN ON PORTABLE OR PERMANENT SUPPORT



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

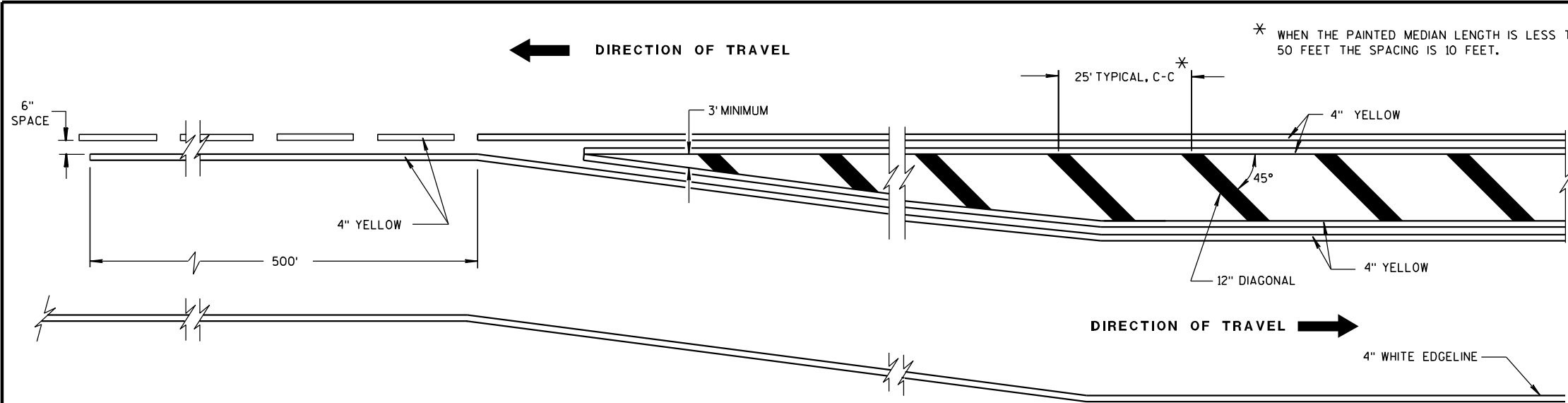
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

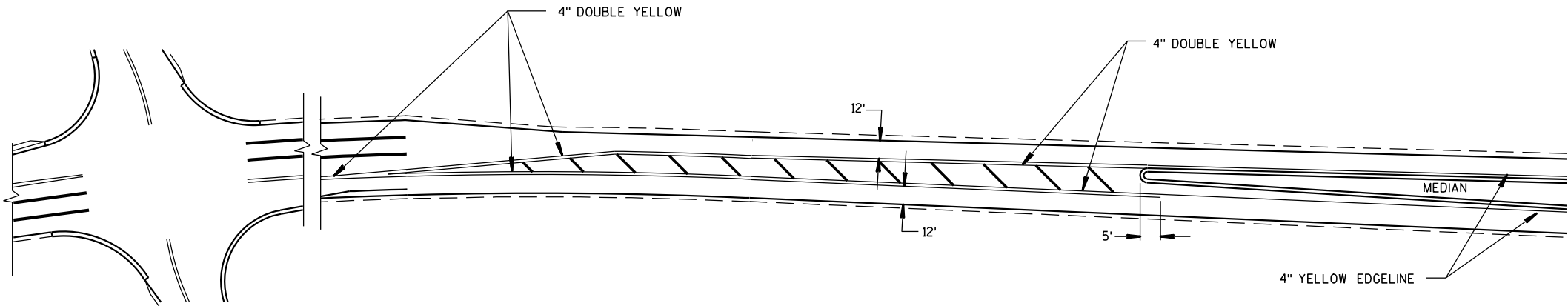
APPROVED	/S/ Thomas N. Natho	
9/5/06	DATE	STATE TRAFFIC ENGINE 53
FHWA	DESIGN	



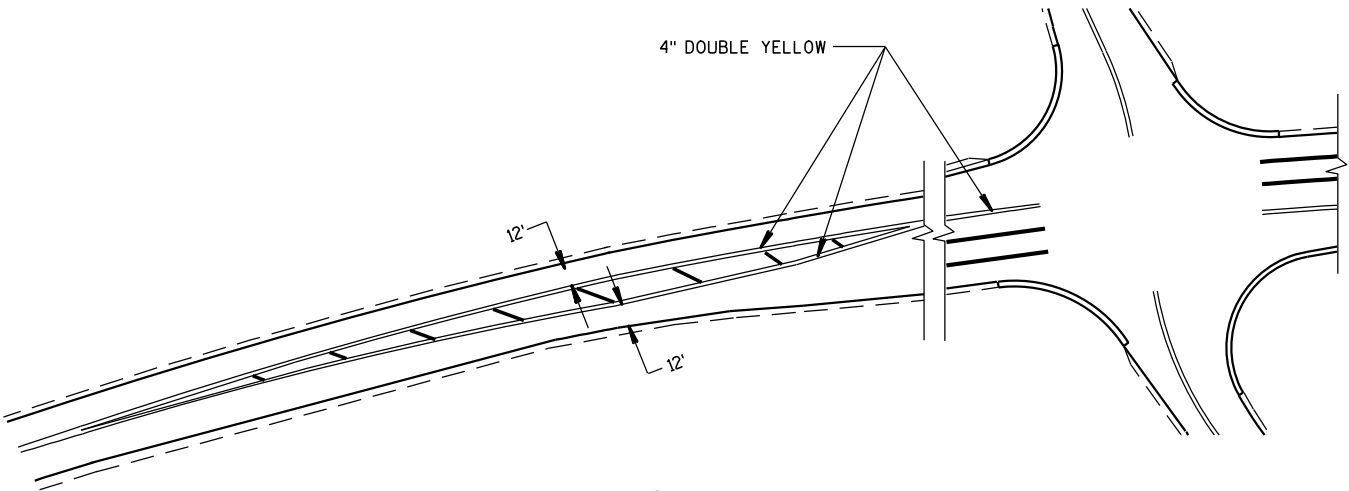
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

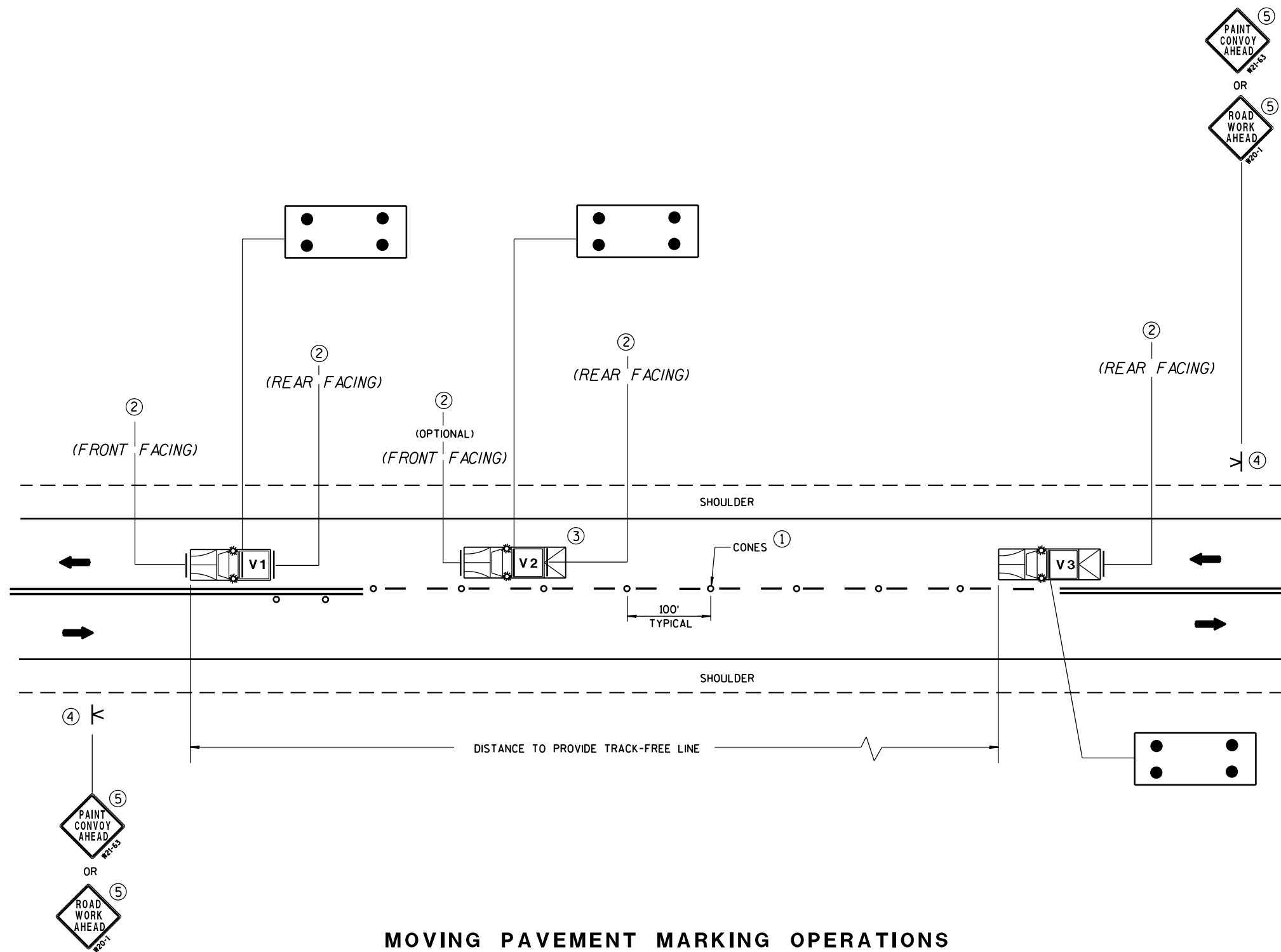


APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED	/S/ Thomas N. Nothohm		
2-5-09	DATE	STATE TRAFFIC ENGINEE 54	IGN
FHWA			



MOVING PAVEMENT MARKING OPERATIONS TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

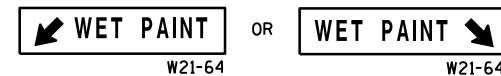
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

K SIGN ON PORTABLE SUPPORT

→ DIRECTION OF TRAVEL

○ CONES

⋮ FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/6/2011
DATE

FHWA

/s/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER

SIGN

GENERAL NOTES

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

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

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

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

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

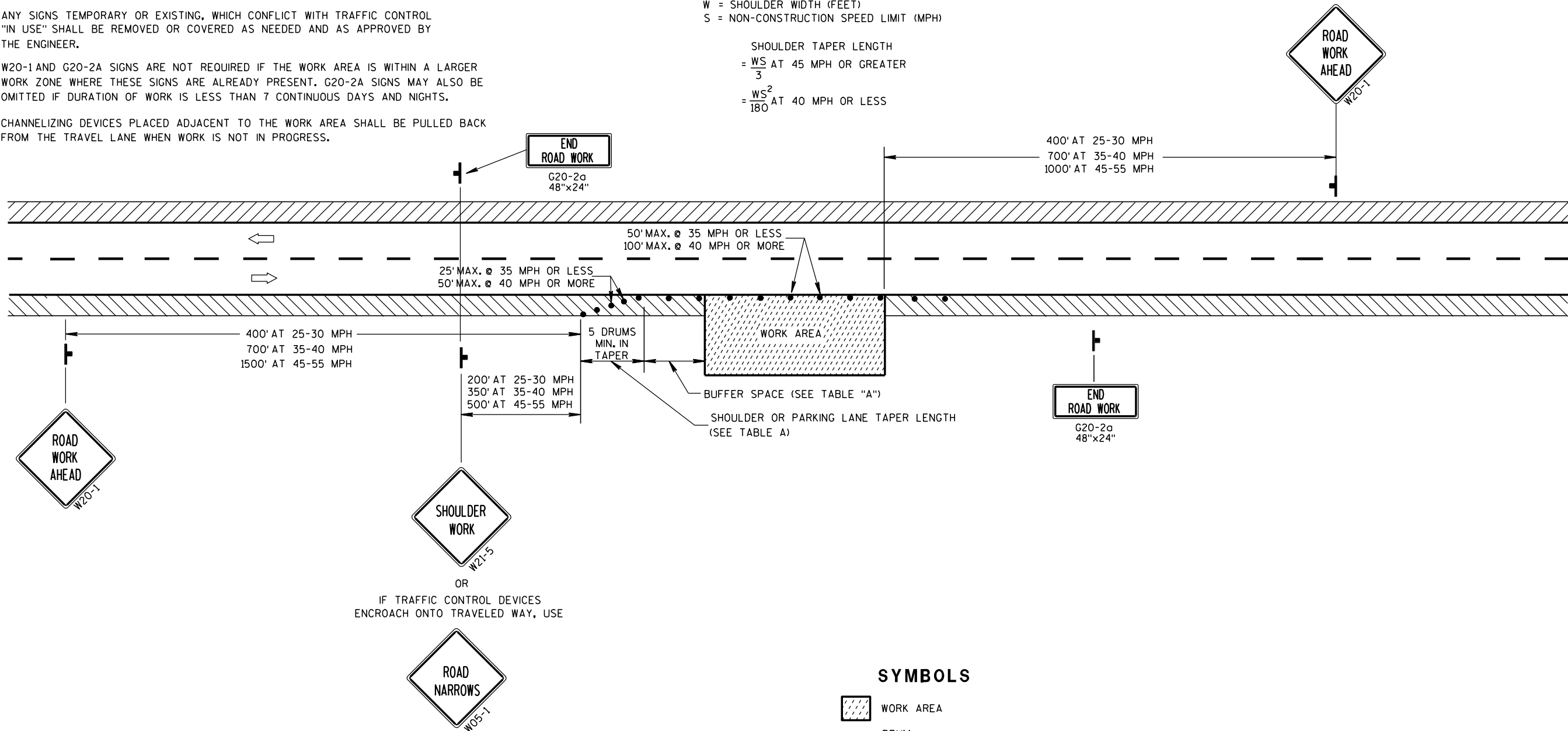
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S	W	4	6	8	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= $\frac{WS}{3}$ AT 45 MPH OR GREATER
= $\frac{WS^2}{180}$ AT 40 MPH OR LESS



SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

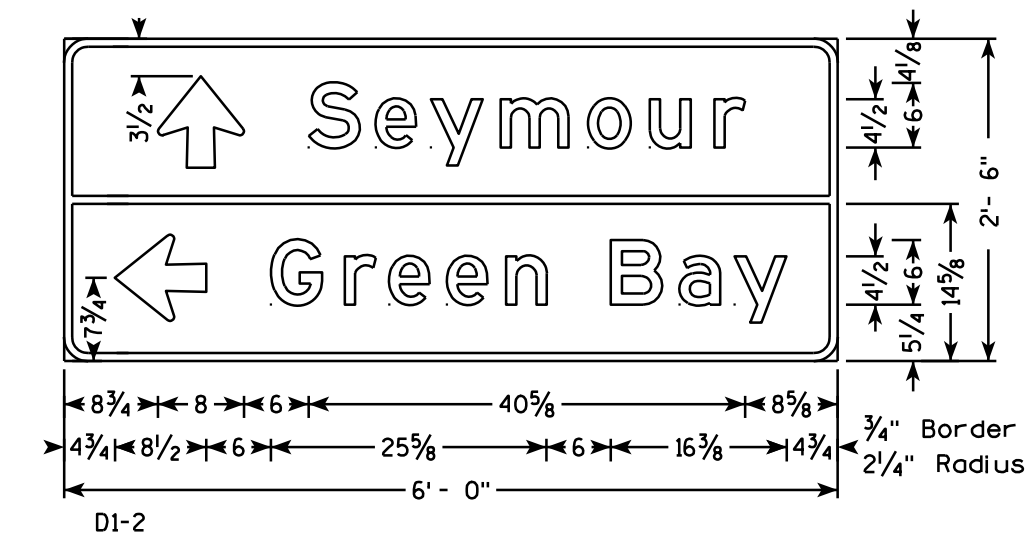
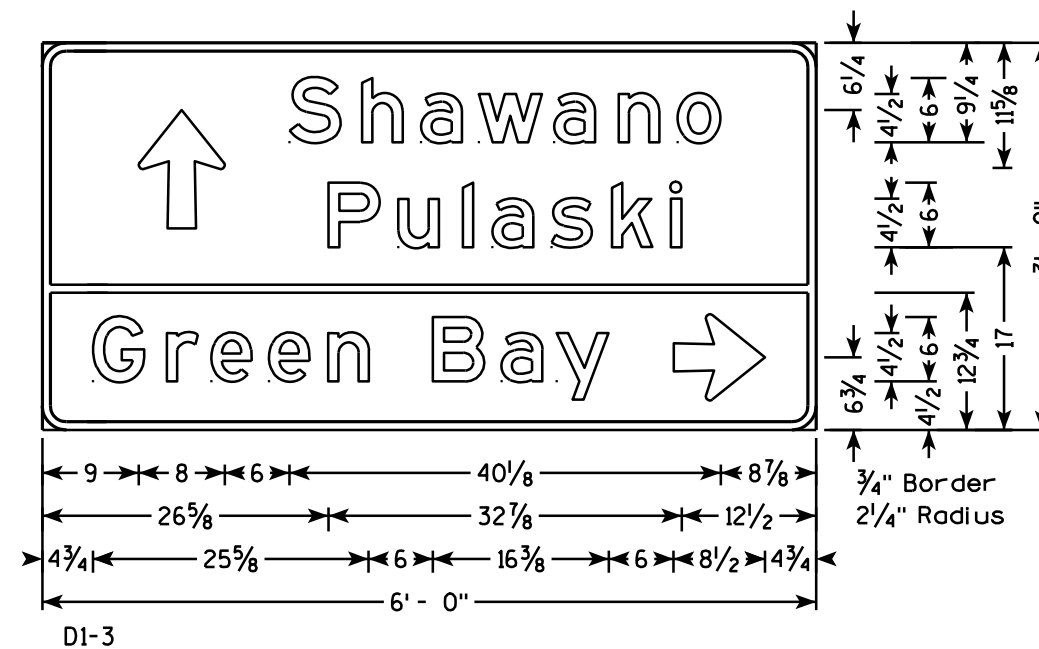
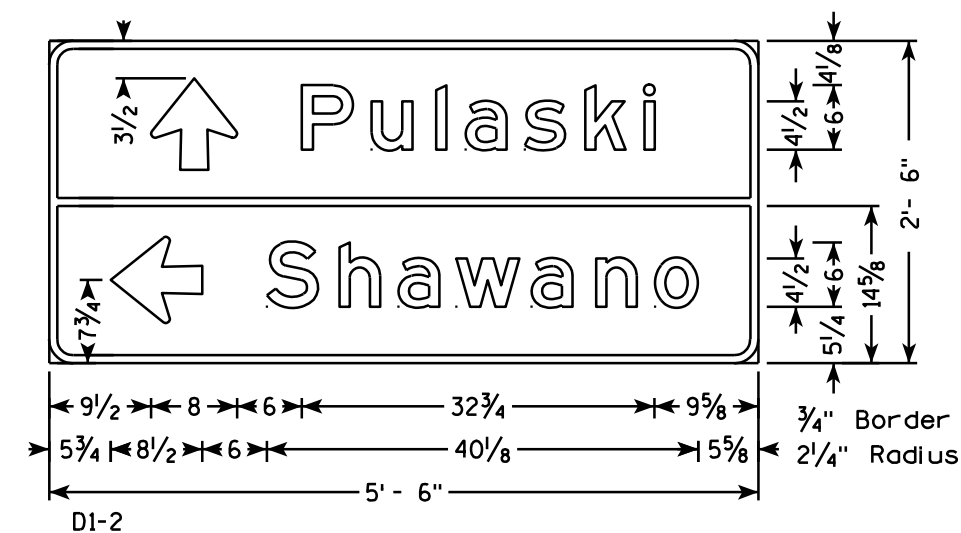
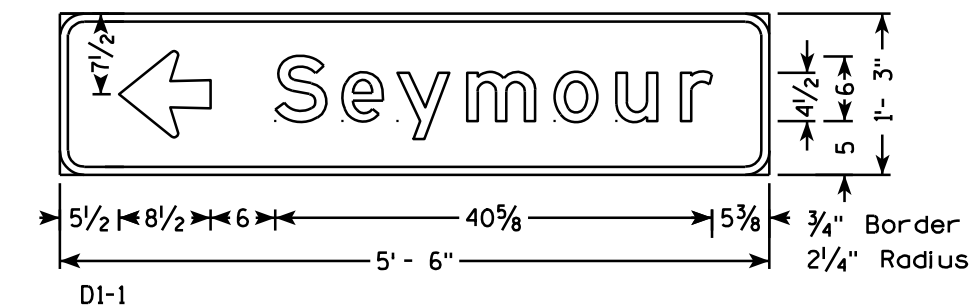
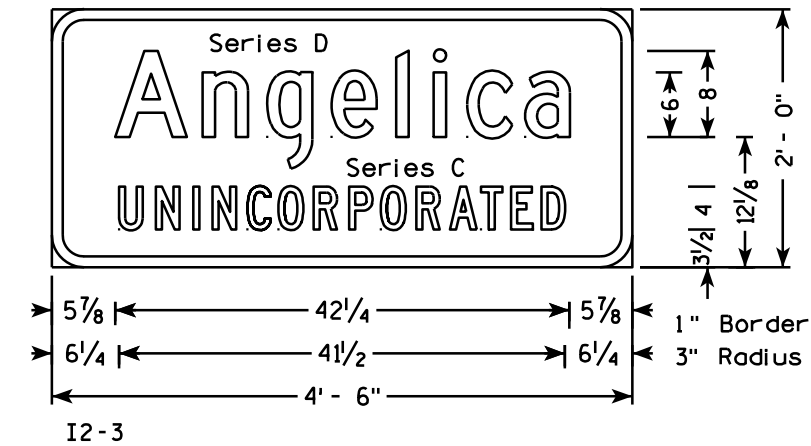
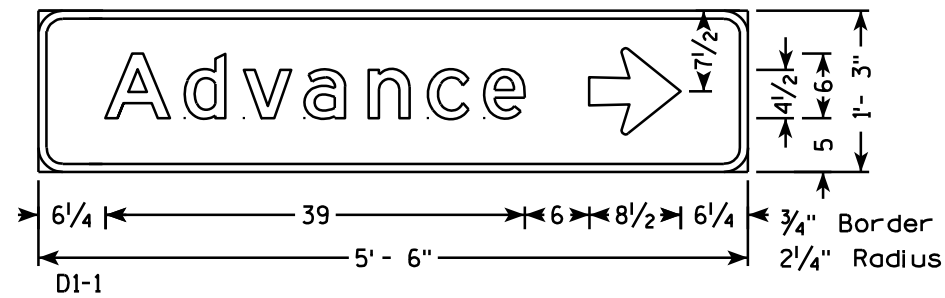
TRAFFIC CONTROL,
WORK ON SHOULDER OR
PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. NNEER
DATE CHIEF SIGNS AND MARKS
FHWA

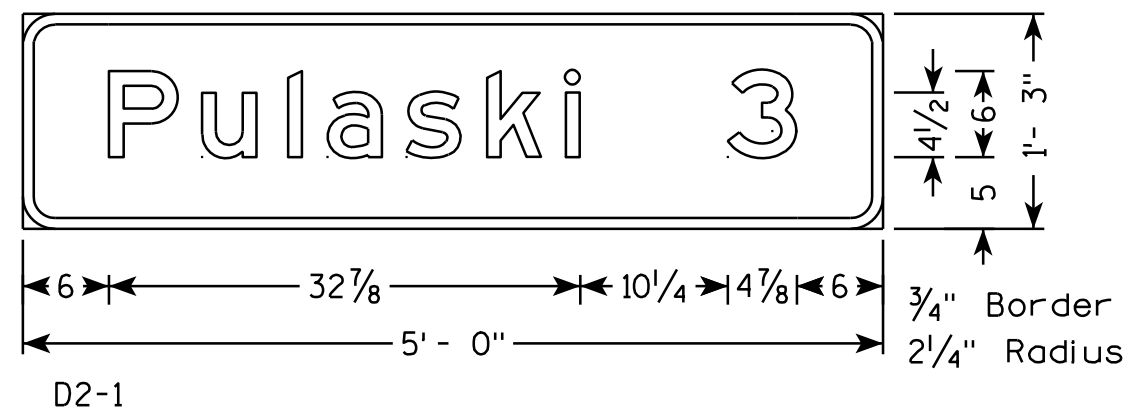
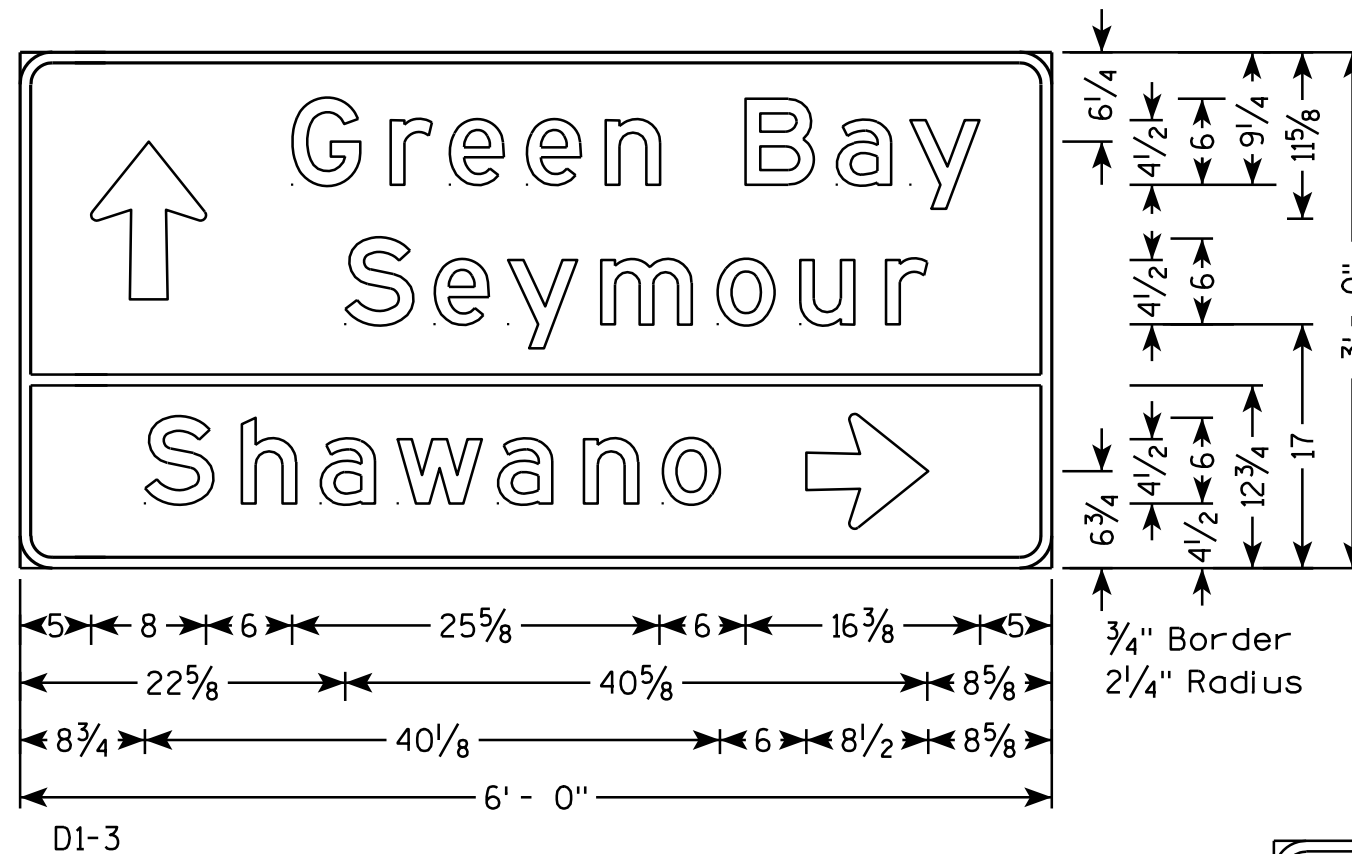
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White
3. Message Series - E except as noted



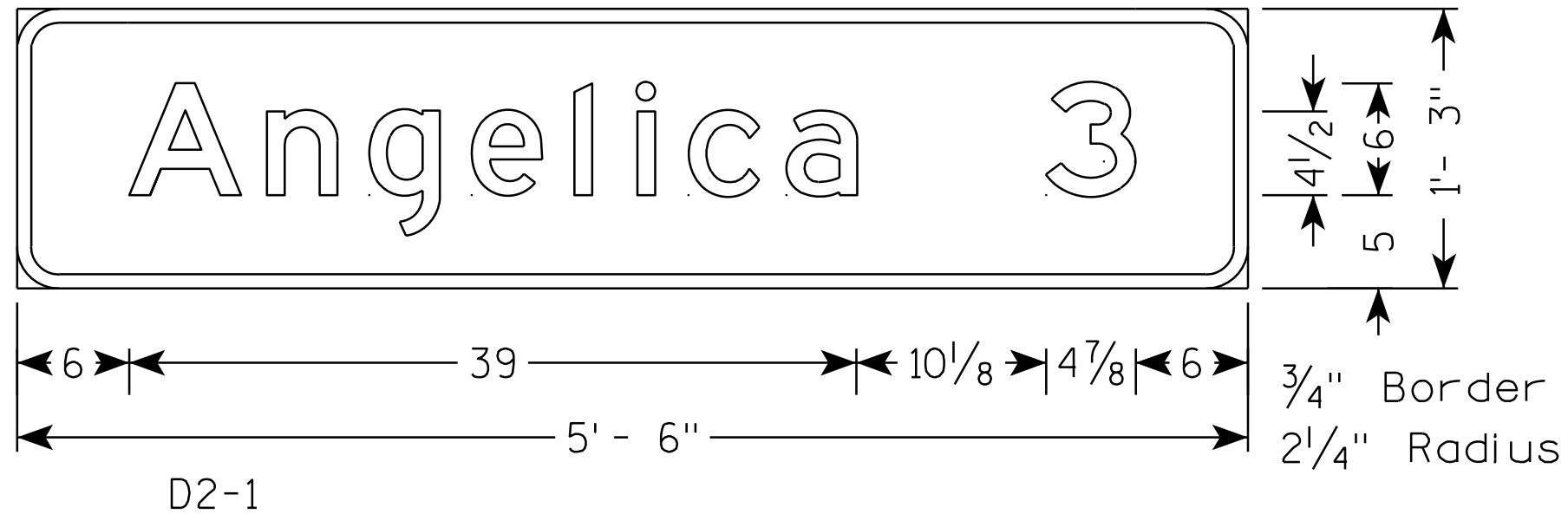
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White
3. Message Series - E except as noted



NOTES

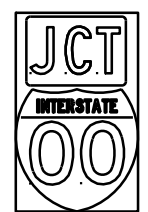
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White
3. Message Series - E except as noted



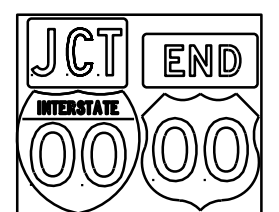
7

7

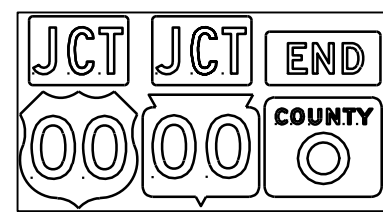
TYPICAL ASSEMBLIES



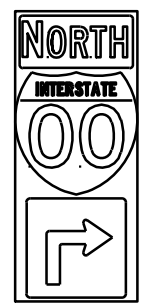
J1-1



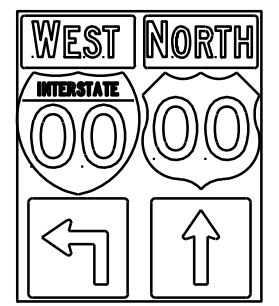
J1-2



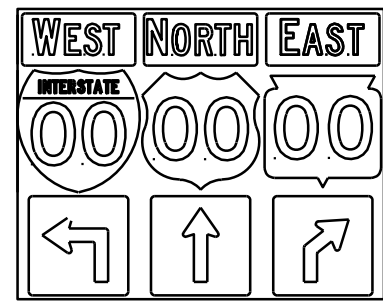
J1-3



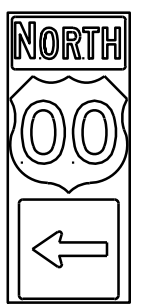
J2-1



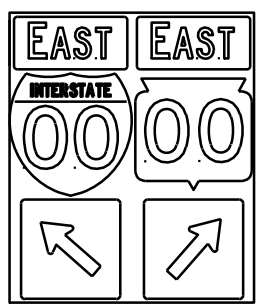
J2-2



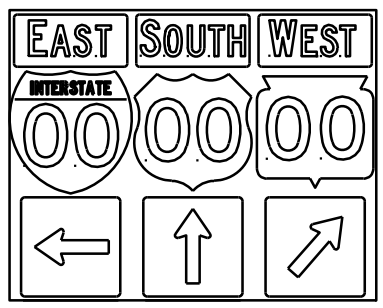
J2-3



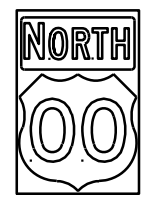
J3-1



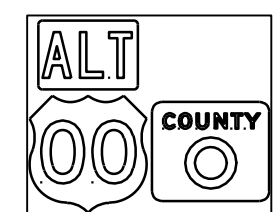
J3-2



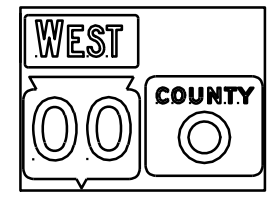
J3-3



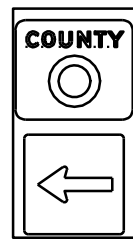
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



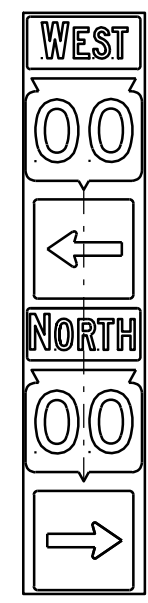
J33-1



J23-1



J22-1

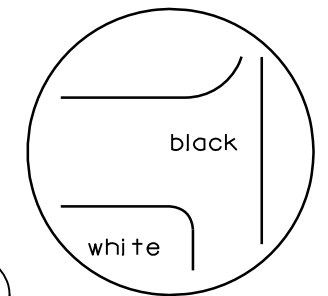
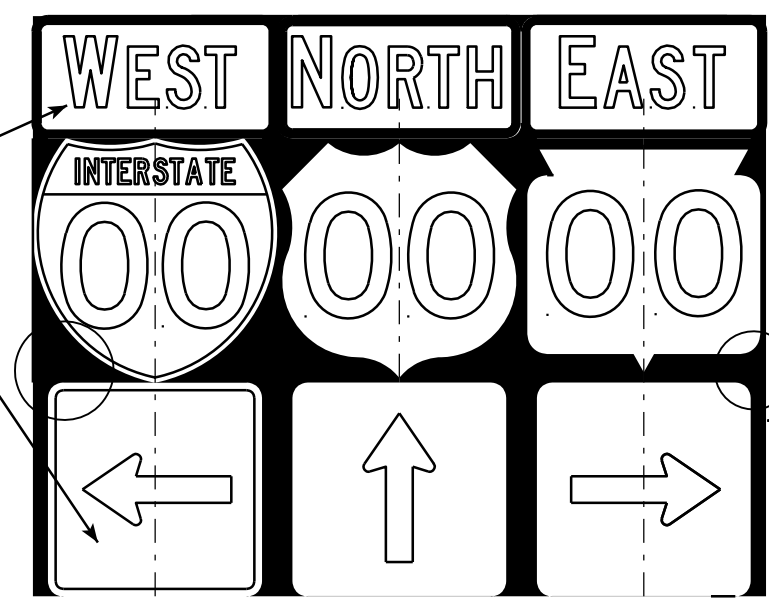
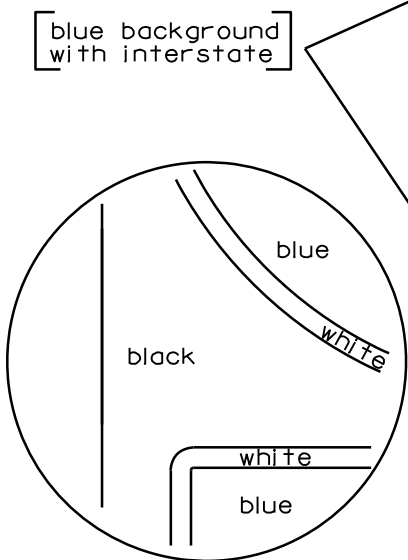


JV

(Typical Vertical J-Assembly
See Note 10 and 11)

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.



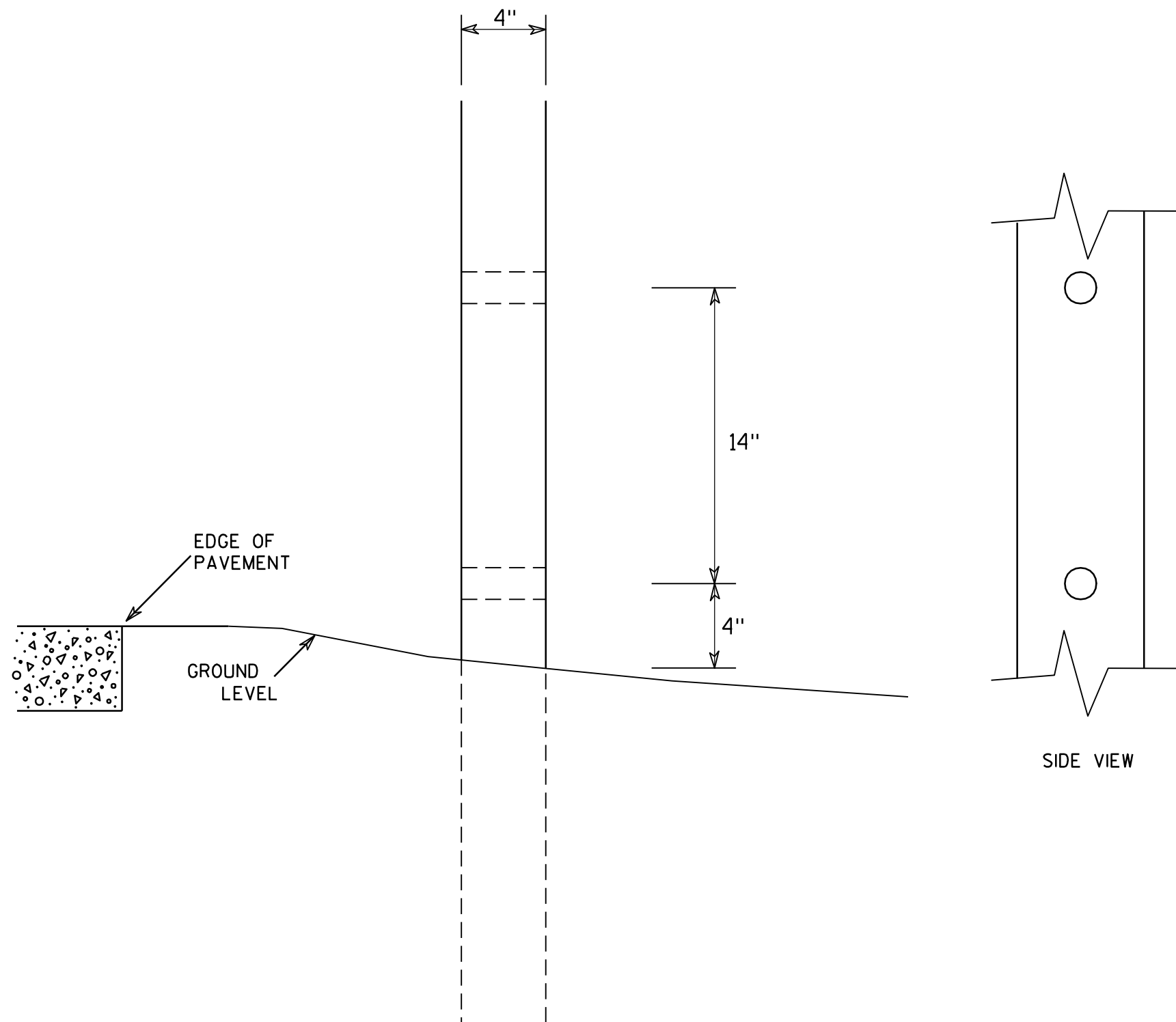
ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/25/13	PLATE NO. A2-1S.7

PROJECT NO:

SHEET NO: 60

E

7

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

**4 X 6 WOOD POST
MODIFICATIONS**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

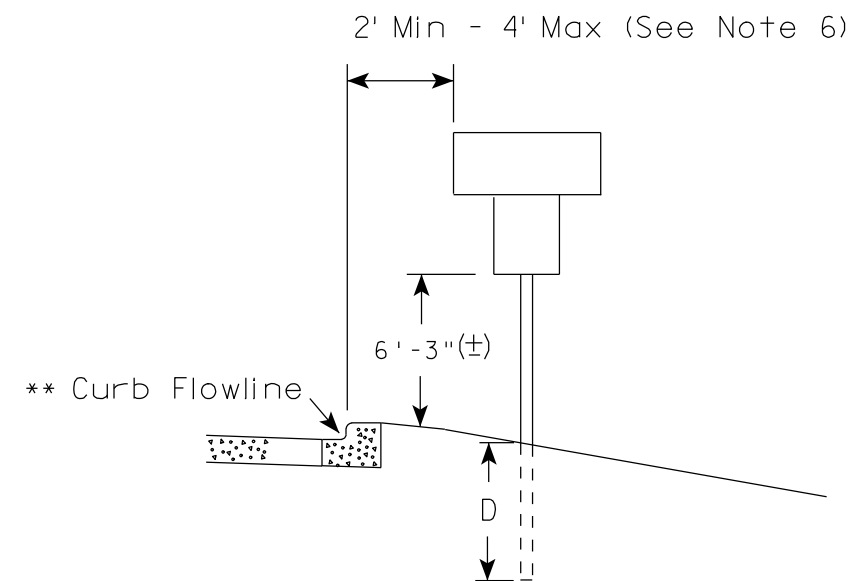
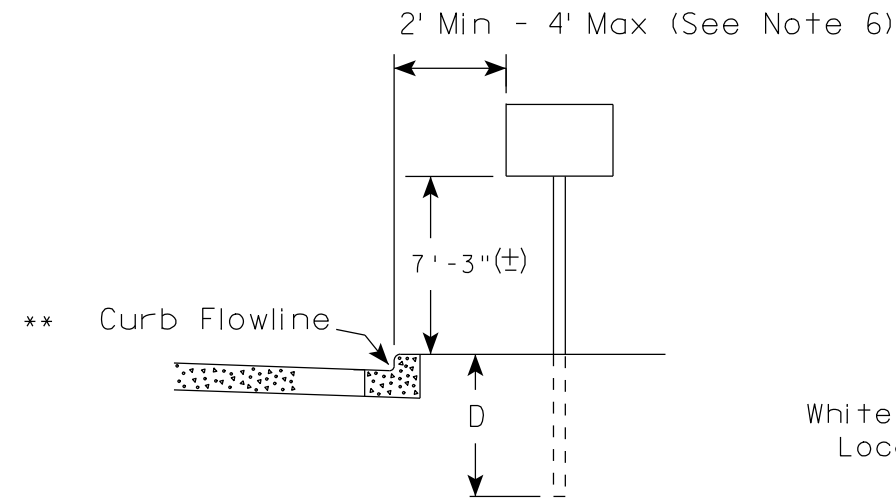
HWY:

COUNTY:

SHEET NO: 61

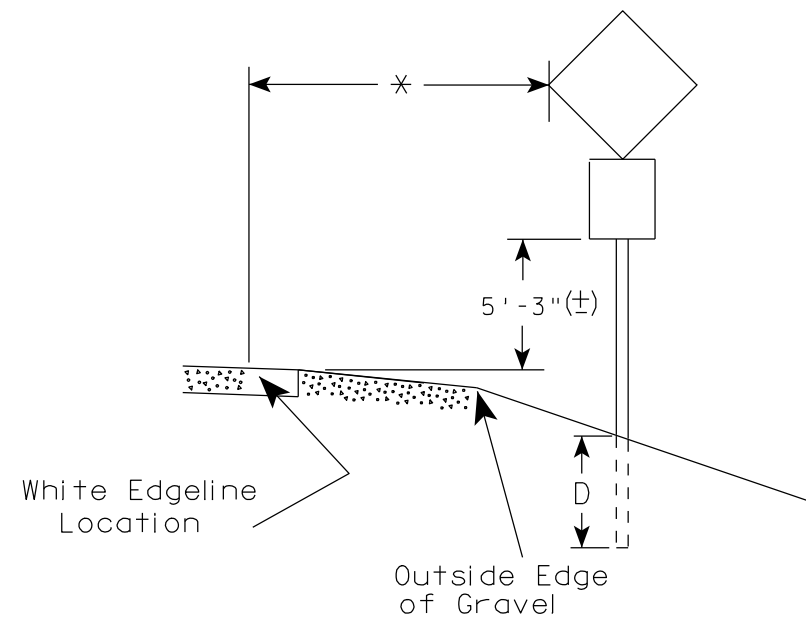
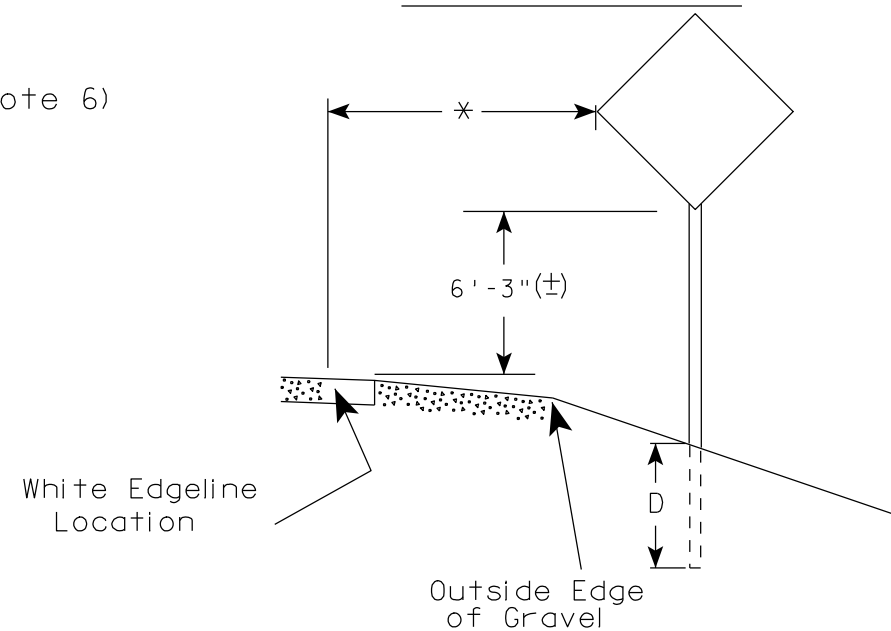
E

URBAN AREA



✱✱ 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.

RURAL AREA (See Note 2)



✱ 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.

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. 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" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'-3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) 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 Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/24/2013 PLATE NO. A4-3.17

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 62

E

GENERAL NOTES

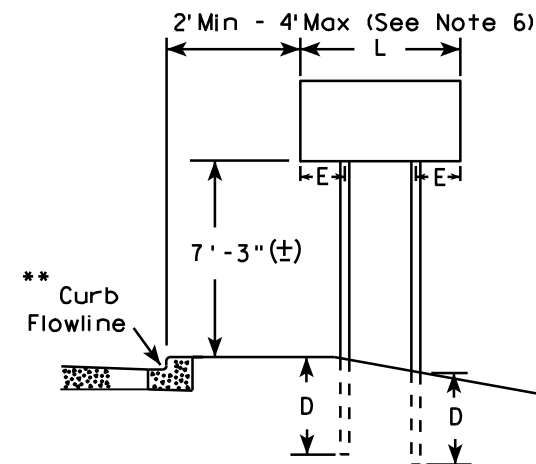
- For multiple post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 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" (±).

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

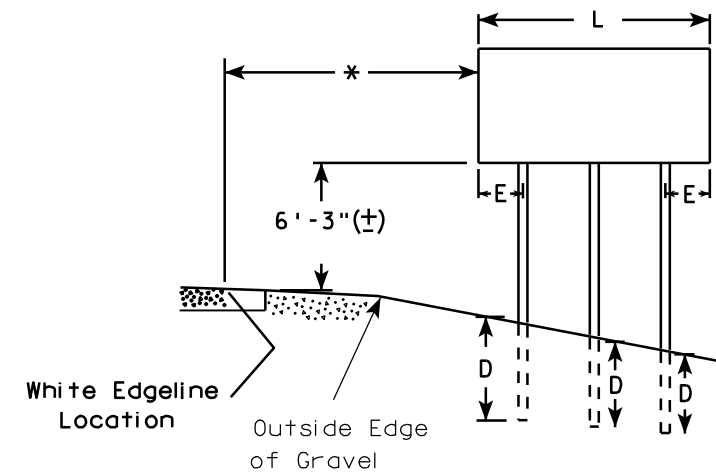
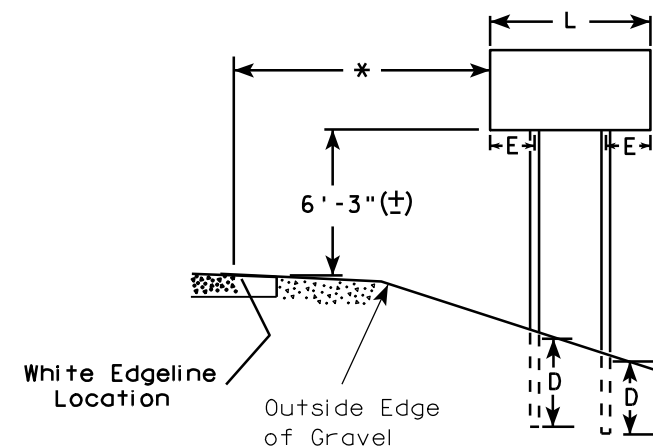
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

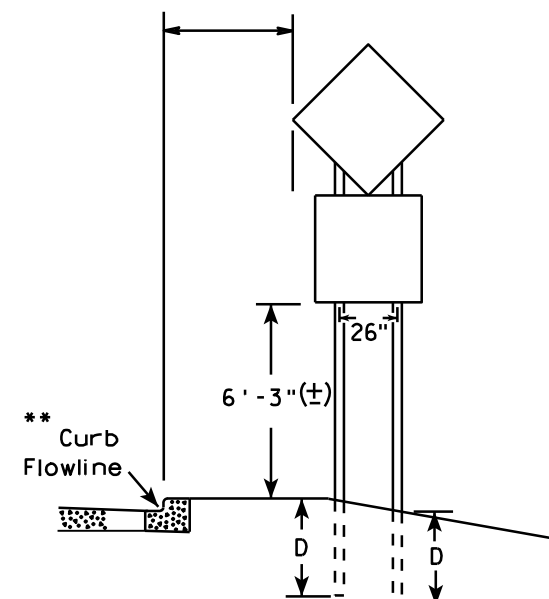
URBAN AREA



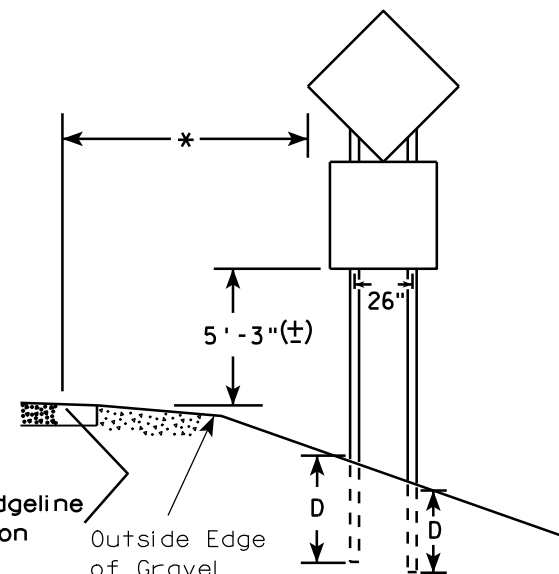
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)

L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)

L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)

L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION
 APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 9/21/2011 PLATE NO. A4-4.11

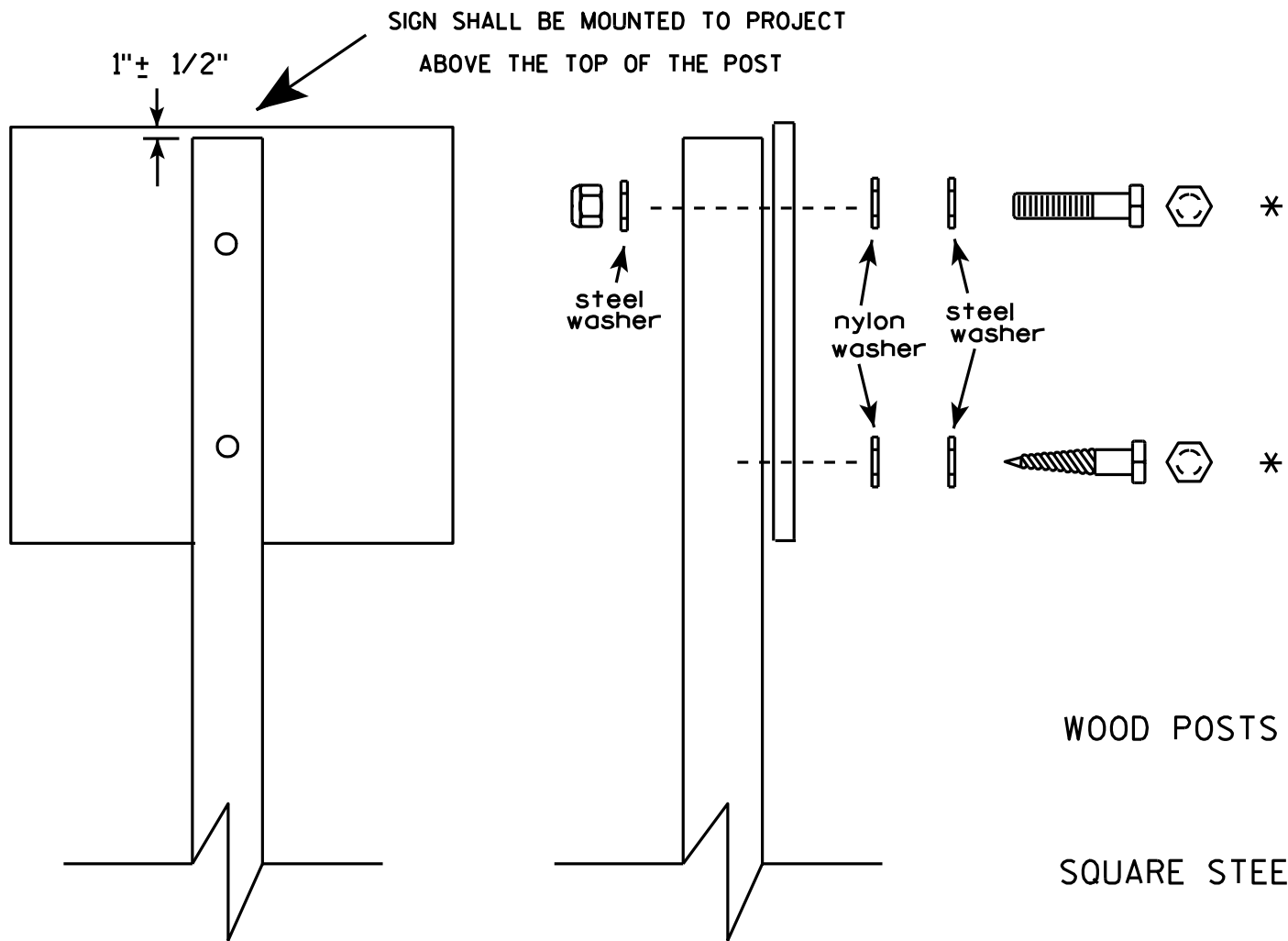
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 63

E

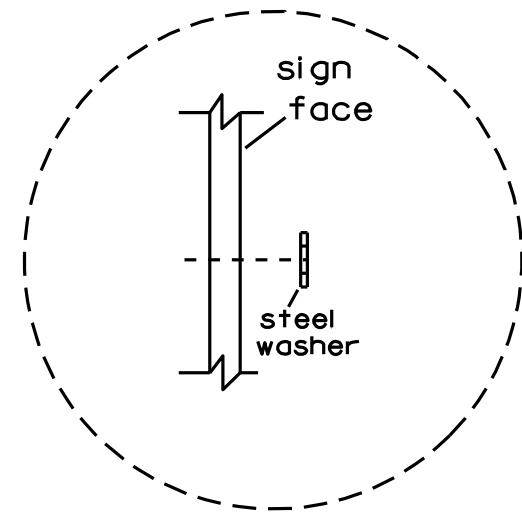


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



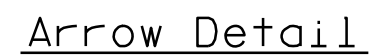
Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

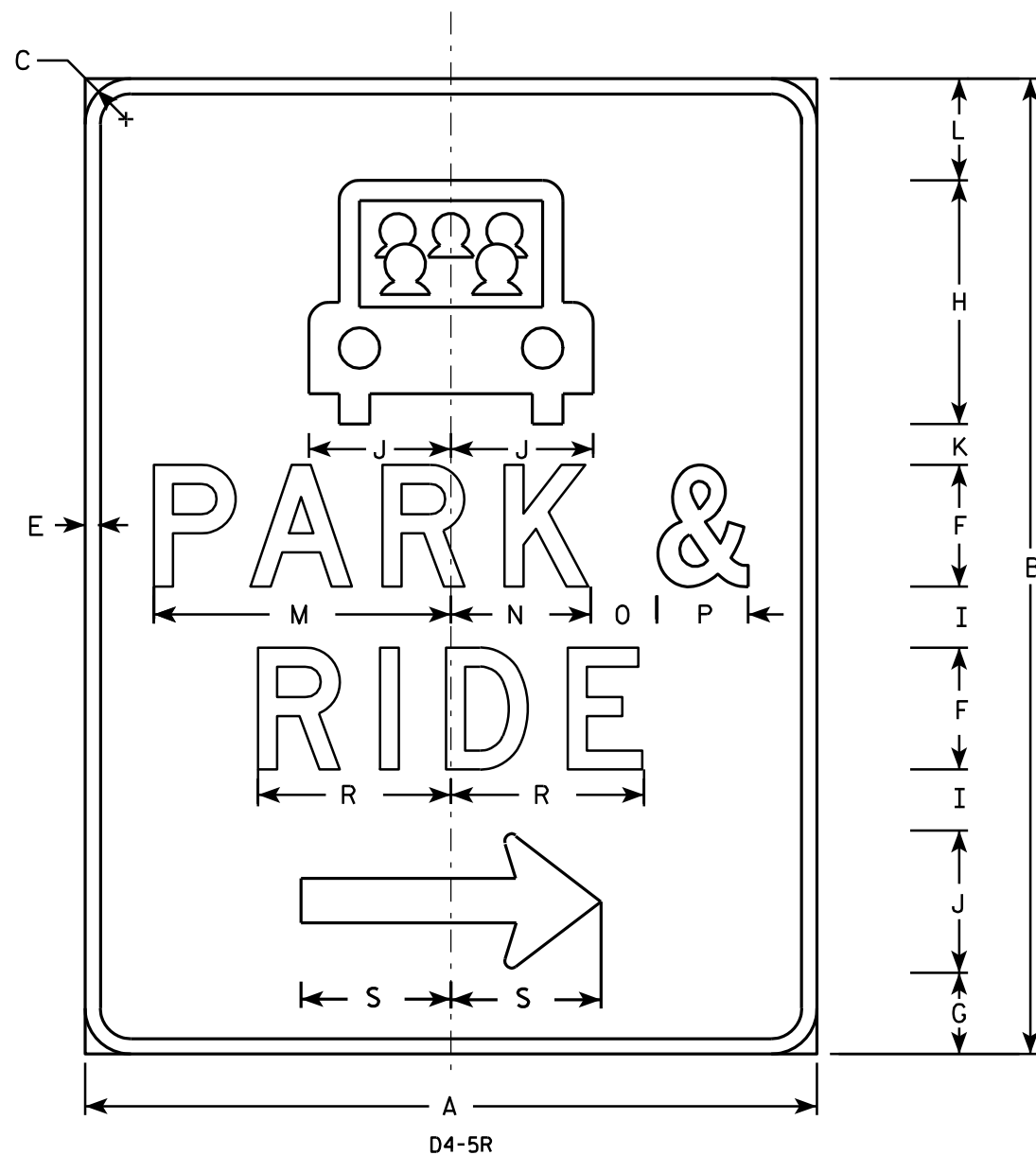
ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7



- 7

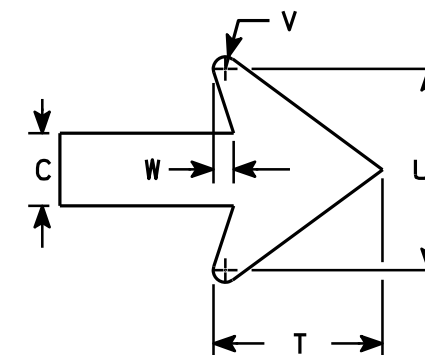


STANDARD SIGN	
D4-2	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<u>Matthew R Rauch</u> For State Traffic Engineer
DATE <u>12/20/10</u>	PLATE NO. <u>D4-2.5</u>



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White - Type H Reflective
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. The D4-5L is the same as a D4-5R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 3⁄8		5⁄8	5	1 3⁄8	9	2	5	1 5⁄8	5	11 3⁄4	5 1⁄2	2 3⁄4	3 3⁄4		8	6 1⁄8	4	4 3⁄8	3⁄8	1⁄2				7.5
3	36	48	2 1⁄4		3⁄4	6	4	12	3	7	2	5	14 5⁄8	6 7⁄8	3 1⁄4	4 1⁄2		9 1⁄2	7 1⁄2	5 1⁄4	6 1⁄4	3⁄8	5⁄8				12.0
4																											
5																											

STANDARD SIGN D4-5 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 11/15/10 PLATE NO. D4-5.2

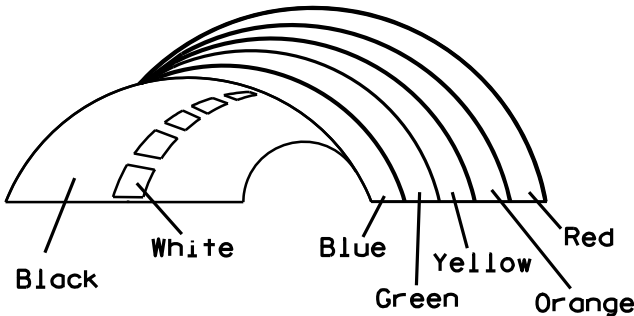
PROJECT NO:

SHEET NO: 66

E



Background Colors of Symbol*



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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 67

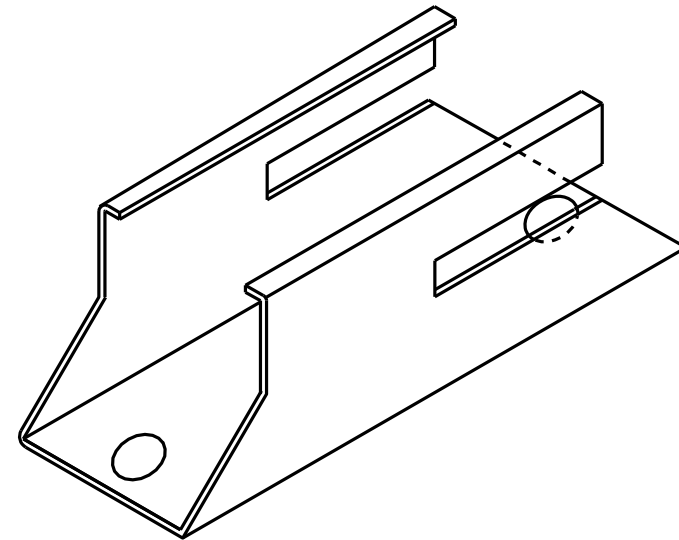
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

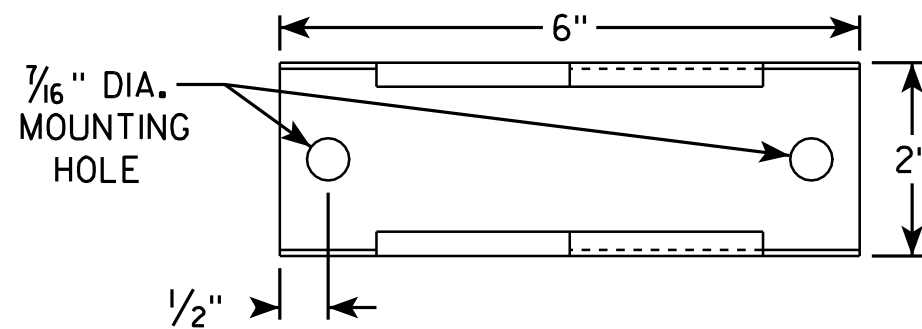
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/27/11 PLATE NO. I55-56.3

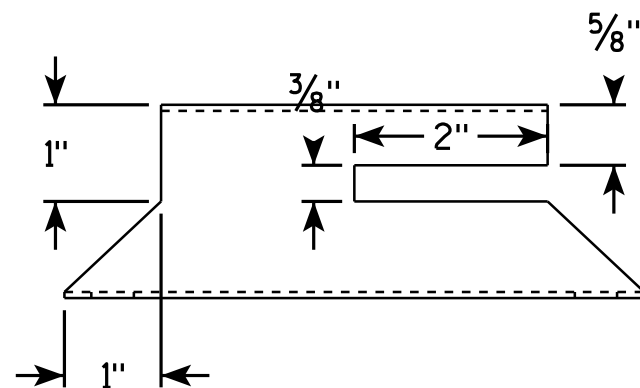
ISOMETRIC VIEW



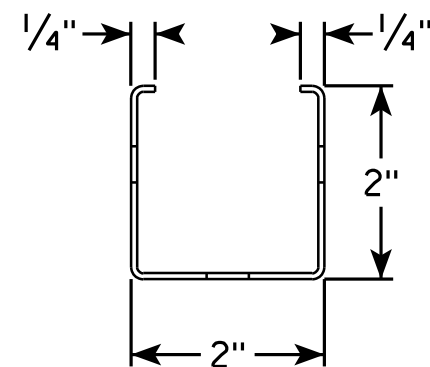
TOP VIEW



SIDE VIEW



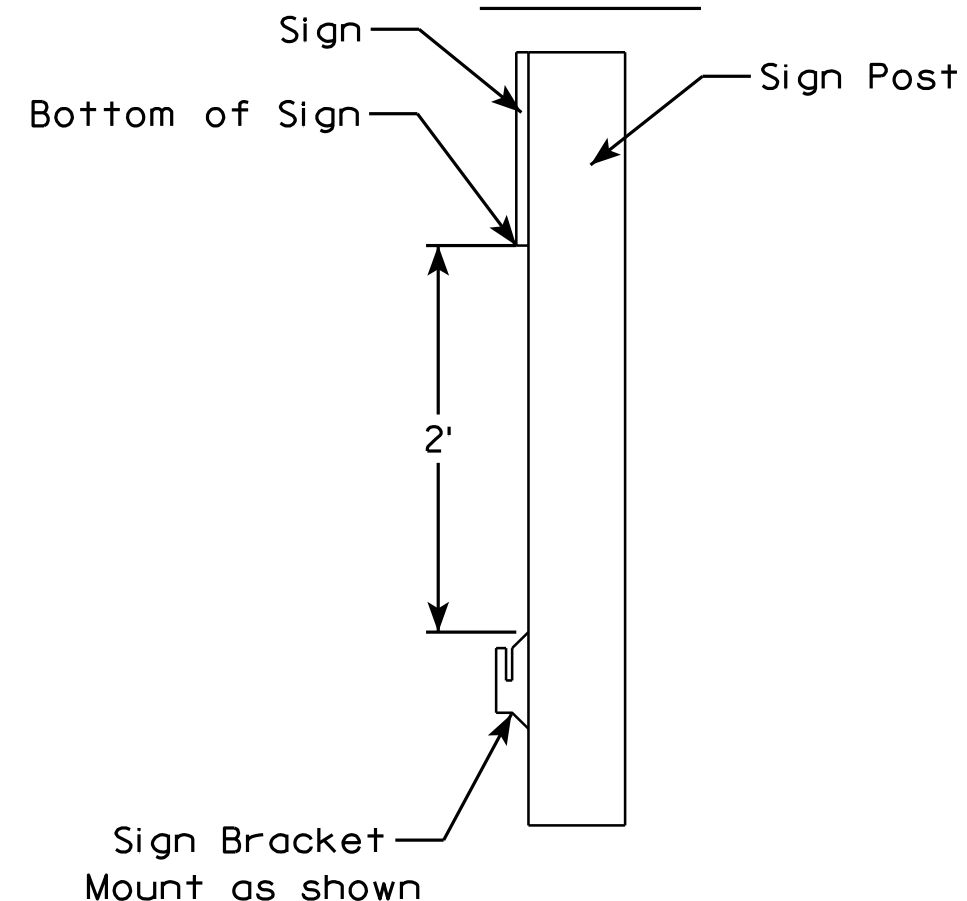
END VIEW



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 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:

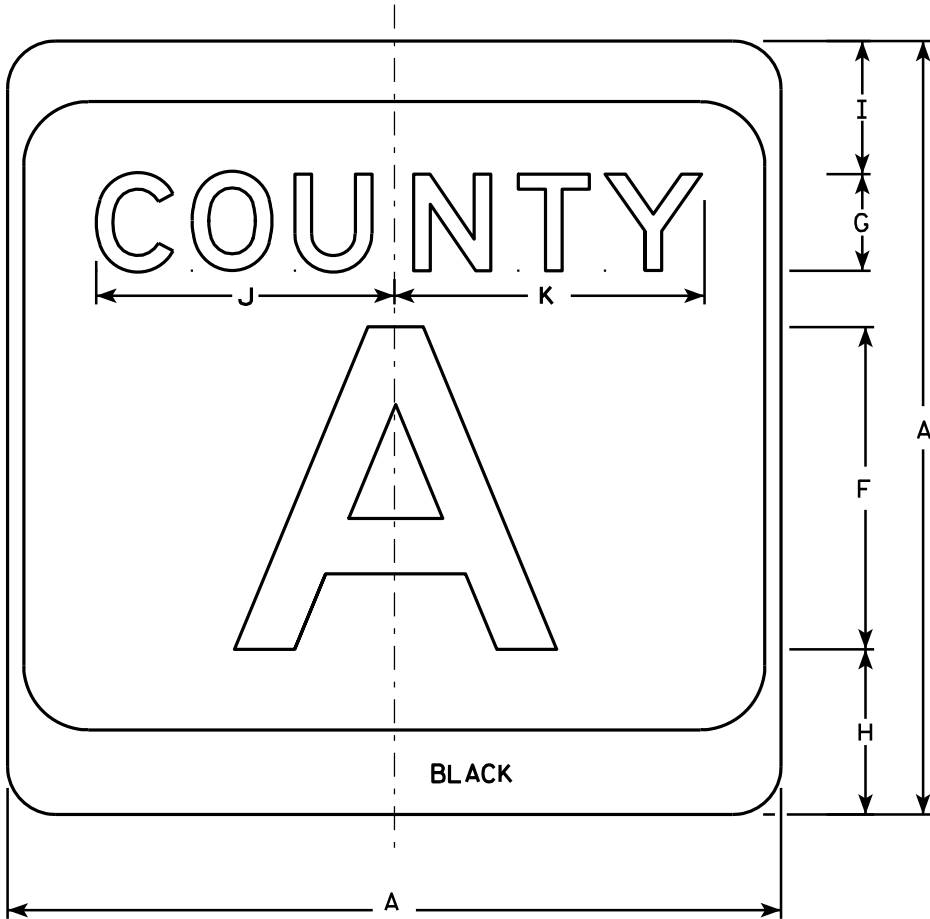
HWY:

COUNTY:

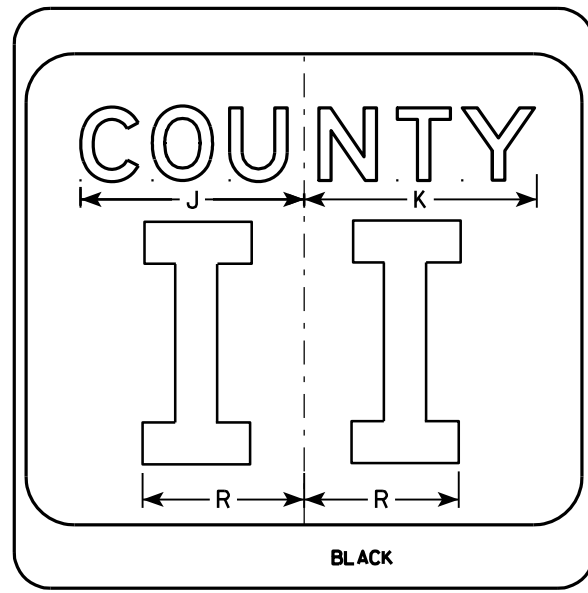
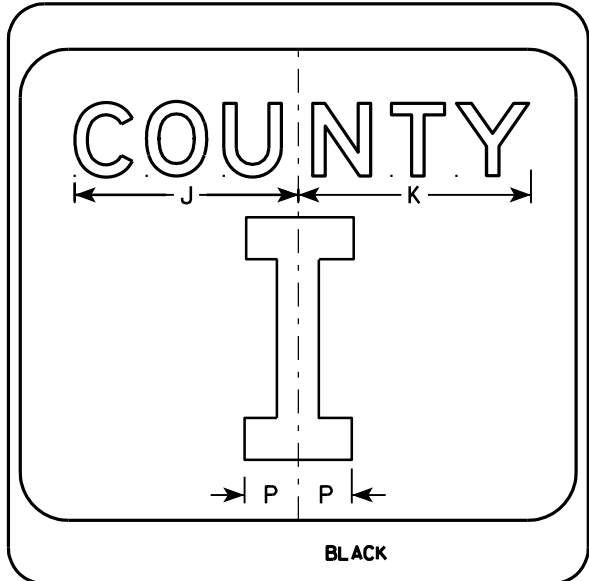
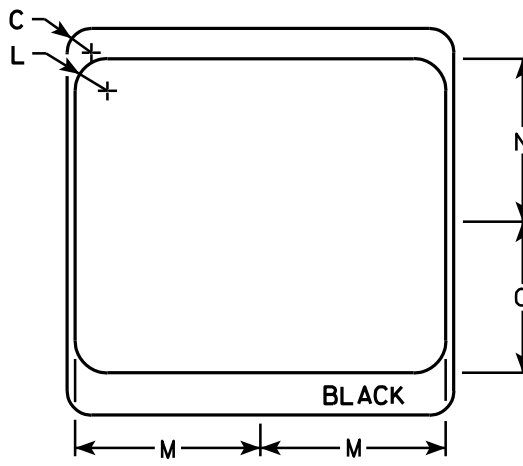
SHEET NO: 68

E

7



M1-5A



NOTES

1. 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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	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 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

PROJECT NO:

HWY:

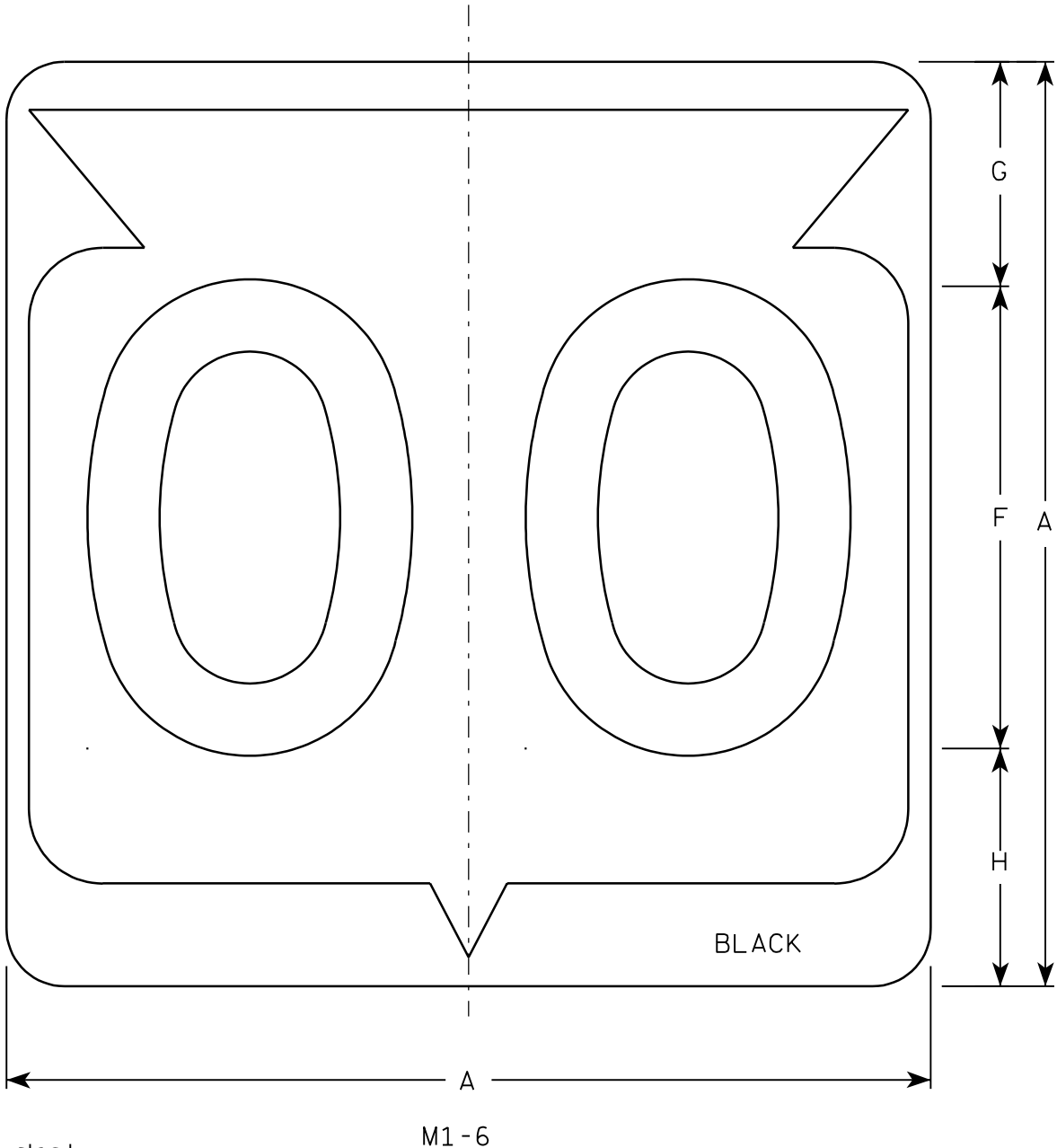
COUNTY:

SHEET NO: 69

E

7

7



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											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 7/8	16 7/8	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 7/8	16 7/8	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 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

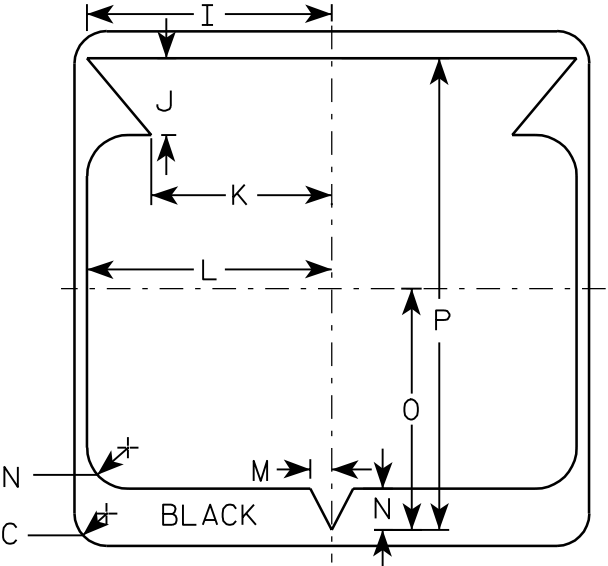
COUNTY:

SHEET NO: 70

E

NOTES

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



STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

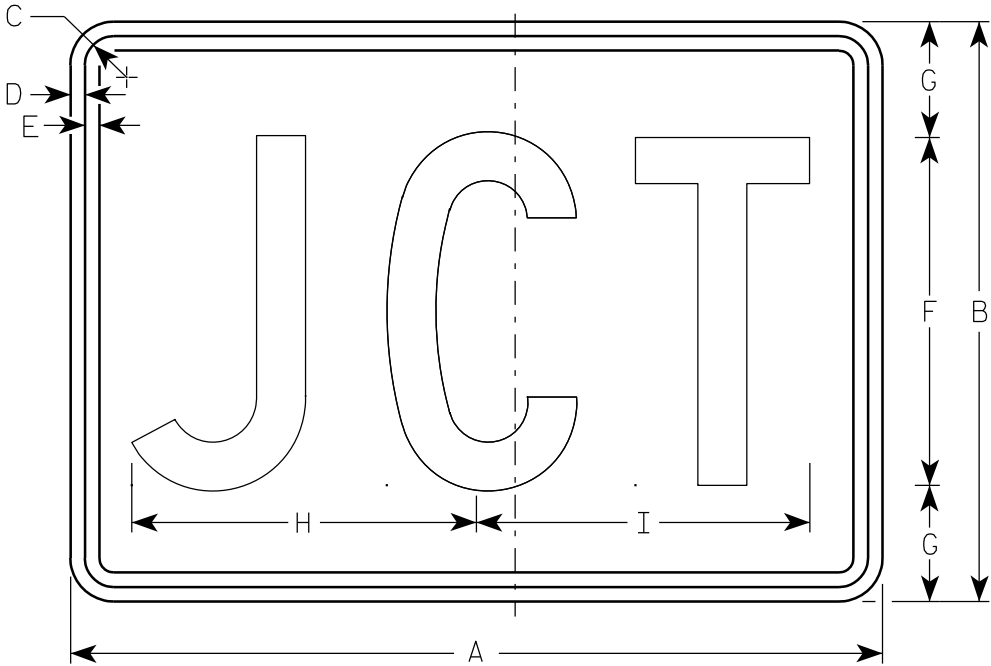
Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

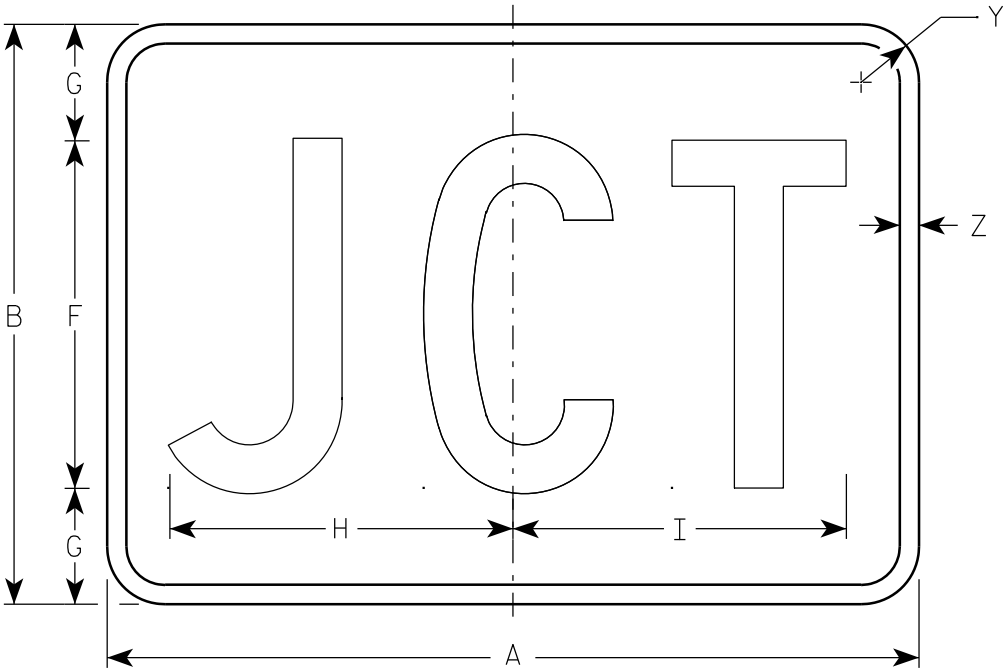
PLATE NO. M1-6.9

NOTES

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



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

Metric equivalent
for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

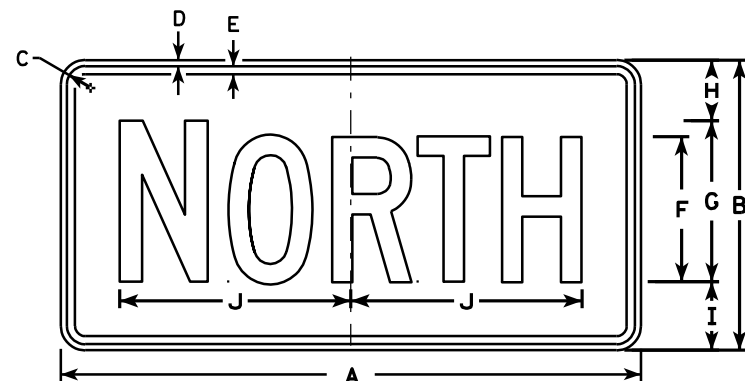
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20

STANDARD SIGN
M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

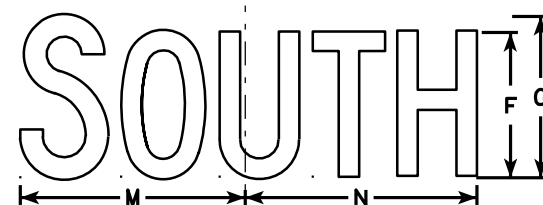
DATE 3/16/10 PLATE NO. M2-1.10



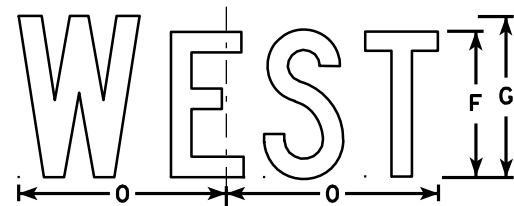
M3-1
MK3-1
M03-1



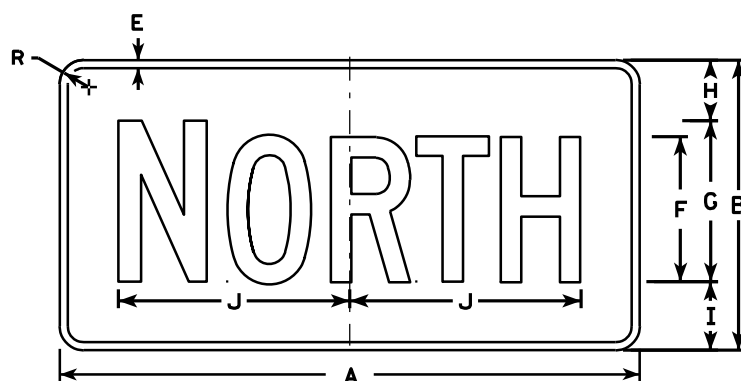
M3-2
MK3-2
M03-2



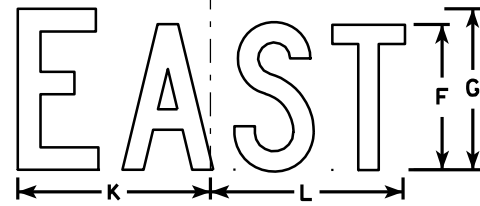
M3-3
MK3-3
M03-3



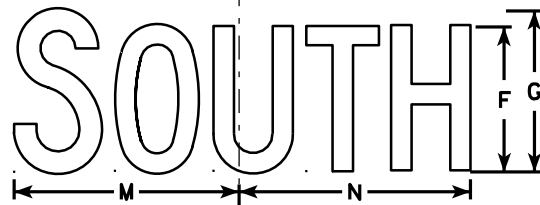
M3-4
MK3-4
M03-4



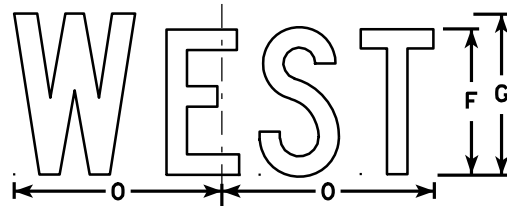
MB3-1
MG3-1
MM3-1
MN3-1



MB3-2
MG3-2
MM3-2
MN3-2



MB3-3
MG3-3
MM3-3
MN3-3



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area 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 7/8	8 3/8	10 1/4	9 3/4	8 3/4			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

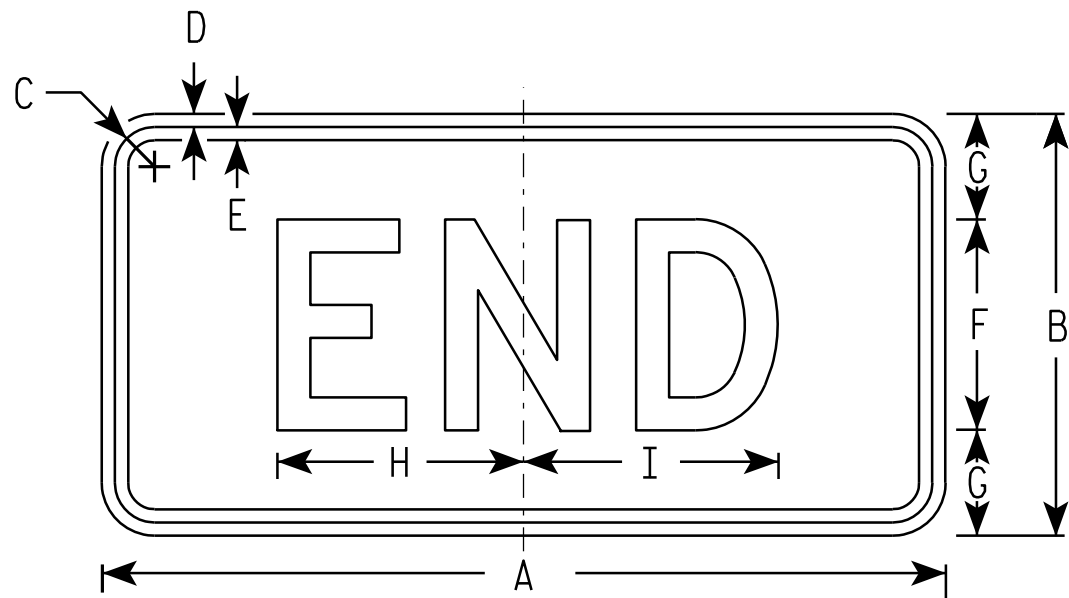
PROJECT NO: HWY: COUNTY: SHEET NO: 72 E

STANDARD SIGNS M3-1 thru M3-4 SERIES

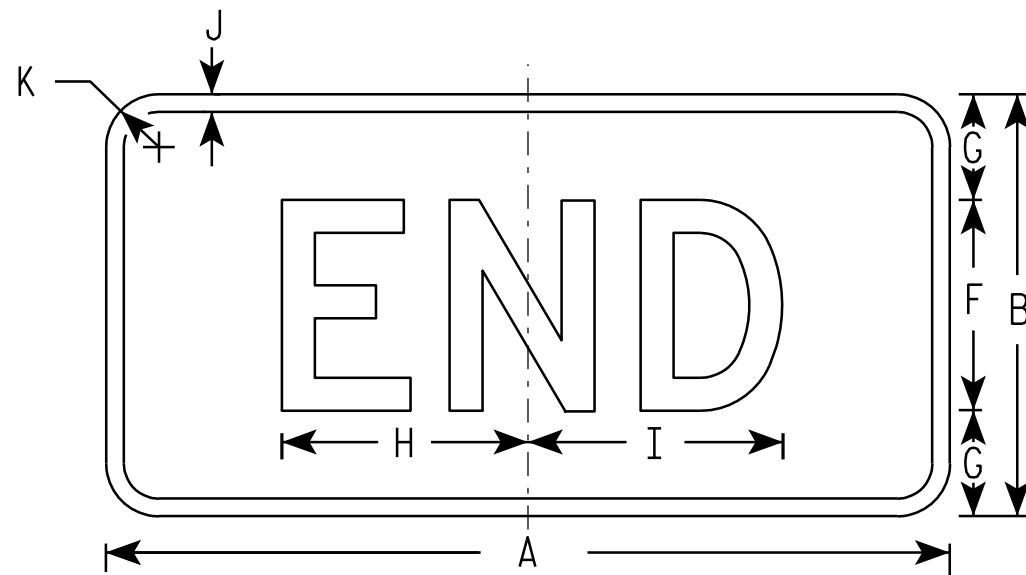
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



M4-6
MK4-6
MM4-6
MR4-6



MB4-6
MG4-6
MN4-6

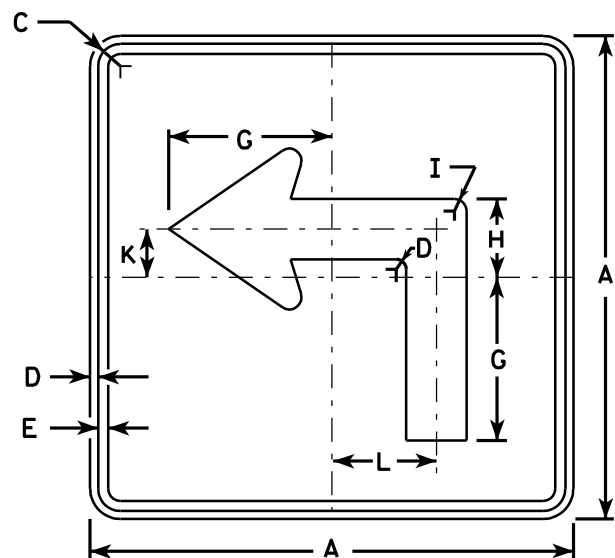
NOTES

- Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 5
Message - See note 5
- Message Series - D
- 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.
- M4-6 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB4-6 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG4-6 Background - Green
Message - White - Type H Reflective
MK4-6 Background - Green
Message - White - Type H Reflective
MM4-6 Background - White - Type H Reflective
Message - Green
MN4-6 Background - Brown
Message - White - Type H Reflective
MR4-6 Background - Brown
Message - Yellow - Type H Reflective

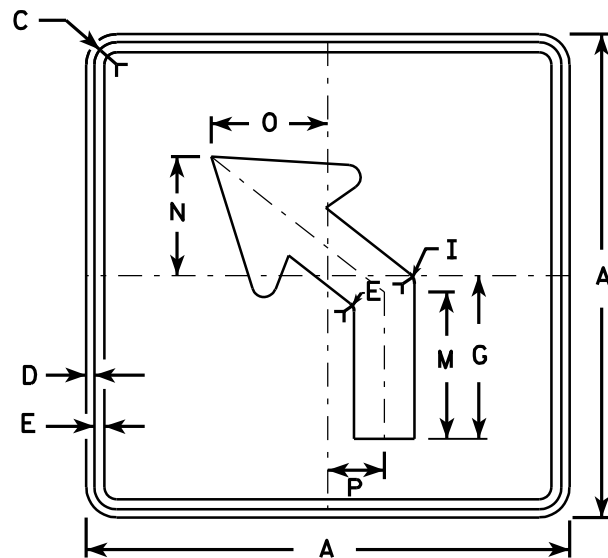
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: 73 E

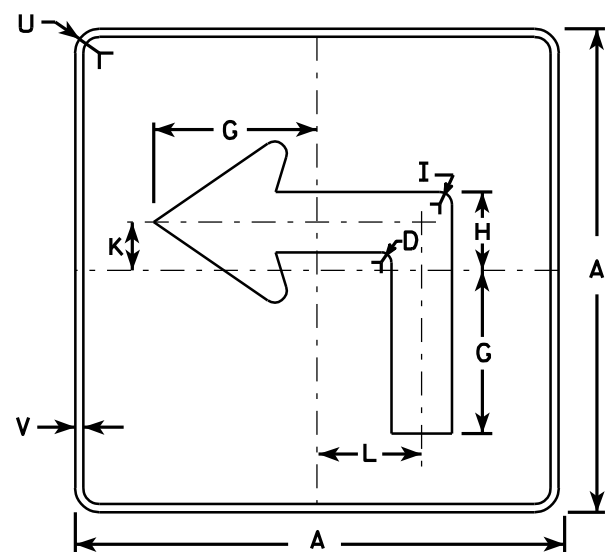
STANDARD SIGN M4 - 6	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 11/10/10	PLATE NO. M4-6.7



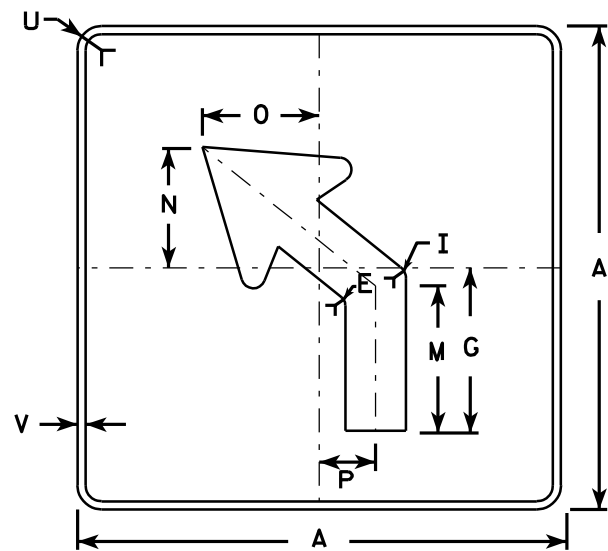
M5-1L
MK5-1L
MM5-1L
MO5-1L
MR5-1L



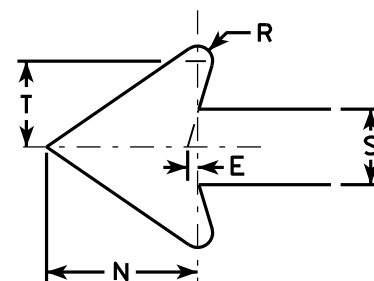
M5-2L
MK5-2L
MM5-2L
MO5-2L
MR5-2L



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



MB5-2L
MG5-2L
MN5-2L



NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 4
Message - See note 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.
- M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
Message - Black
MB5-1 and MB5-2 Background - Blue
Message - White - Type H Reflective (Detour or temporary Signs - 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
MO5-1 and MO5-2 Background - Orange - Reflective
Message - Black
MR5-1 and MR5-2 Background - Brown
Message - Yellow - Type H Reflective
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	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 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	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 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	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 7/8	1/2					6.25	0.56

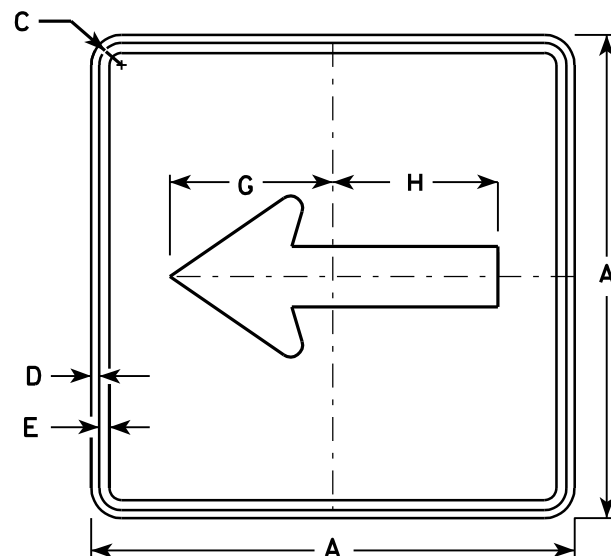
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 74	E
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STANDARD SIGN
M5-1 & M5-2

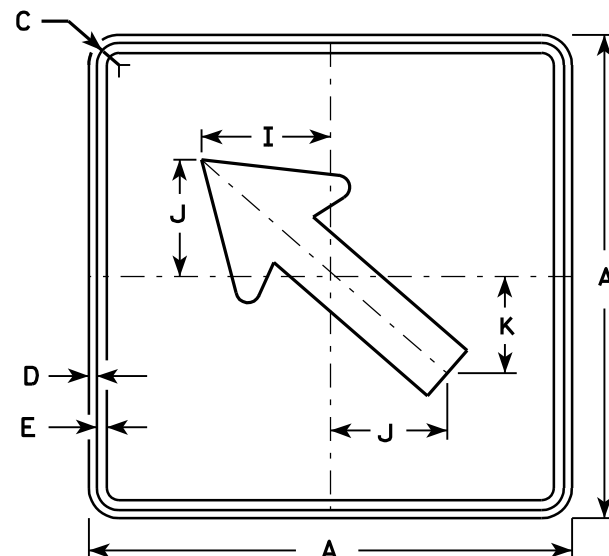
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

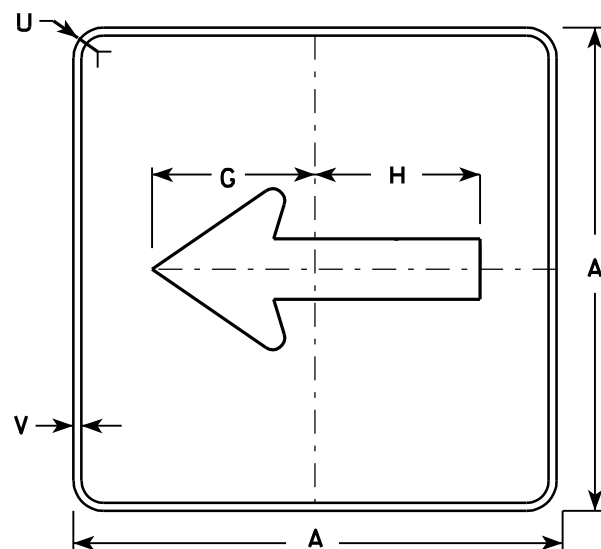
DATE 3/16/10 PLATE NO. M5-1.11



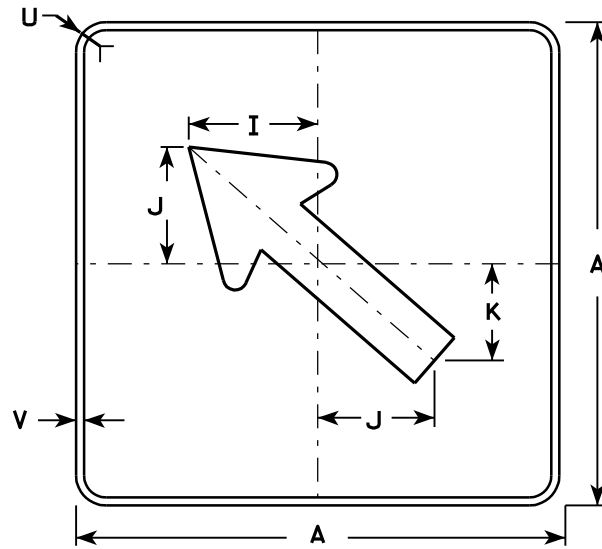
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MR6-2



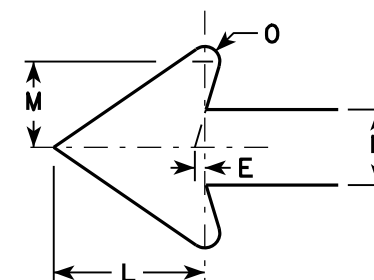
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 4
Message - See note 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.
- M6-1 and M6-2 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - 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
MO6-1 and MO6-2 Background - Orange - Reflective
Message - Black
MR6-1 and MR6-2 Background - Brown
Message - Yellow - Type H Reflective



Metric equivalent
for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	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 7/8	1/2					6.25	0.56
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 7/8	1/2					6.25	0.56
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 7/8	1/2					6.25	0.56

PROJECT NO:

HWY:

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

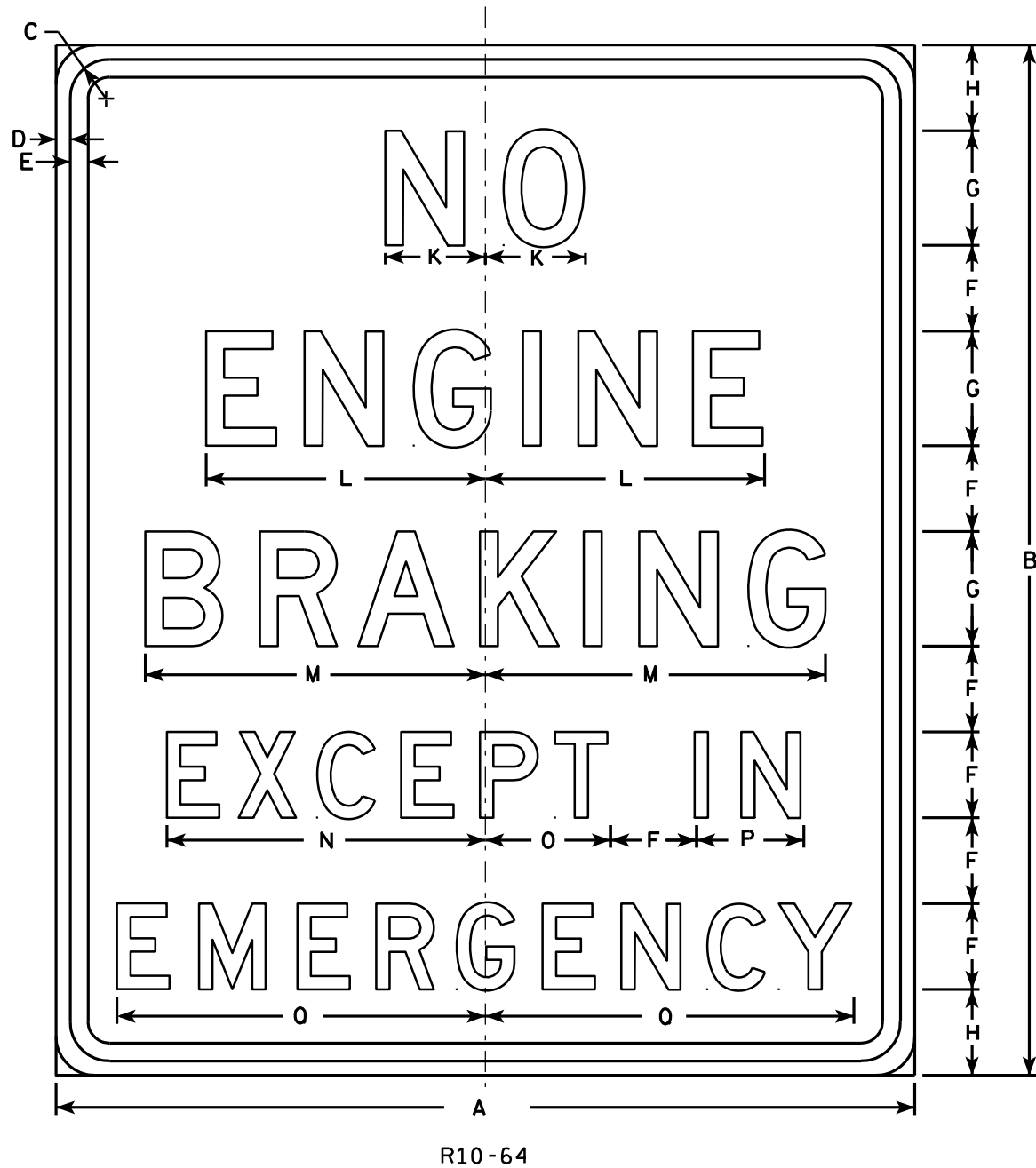
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

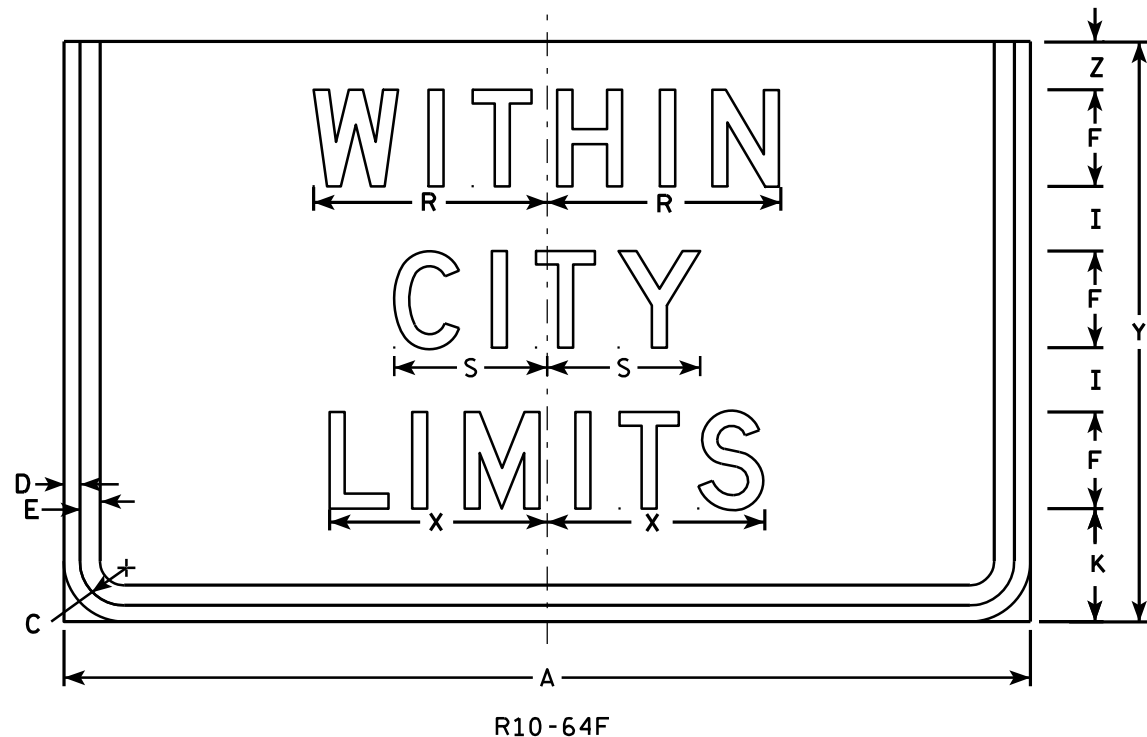
DATE 3/16/10 PLATE NO. M6-1.12

SHEET NO: 75

E



- NOTES
- 1. Signs are 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 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. Line 2 of R10-64F is Series C for "TOWNSHIP" Only



VILLAGE

Area sq. ft.
3.75
7.0

TOWNSHIP

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	36	1 3⁄8	1⁄2	5⁄8	3	4	3	2		3 1⁄2	9 3⁄4	11 7⁄8	11 1⁄8	4 3⁄8	3 3⁄4	12 7⁄8	7 1⁄4	4 3⁄4		8 1⁄4	8 3⁄4	5⁄8	6 3⁄4	18	1 1⁄2	7.5
2S	30	36	1 3⁄8	1⁄2	5⁄8	3	4	3	2		3 1⁄2	9 3⁄4	11 7⁄8	11 1⁄8	4 3⁄8	3 3⁄4	12 7⁄8	7 1⁄4	4 3⁄4		8 1⁄4	8 3⁄4	5⁄8	6 3⁄4	18	1 1⁄2	7.5
2M	30	36	1 3⁄8	1⁄2	5⁄8	3	4	3	2		3 1⁄2	9 3⁄4	11 7⁄8	11 1⁄8	4 3⁄8	3 3⁄4	12 7⁄8	7 1⁄4	4 3⁄4		8 1⁄4	8 3⁄4	5⁄8	6 3⁄4	18	1 1⁄2	7.5
3	42	48	1 3⁄8	1⁄2	5⁄8	4	5	4 1⁄2	3		4	12 1⁄4	14 7⁄8	14 1⁄8	5 1⁄4	4 3⁄4	16 1⁄4	9	6		11	11 1⁄4	1 1⁄2	8 1⁄2	24	2	14.0
4																											
5																											

PROJECT NO:

HWY:

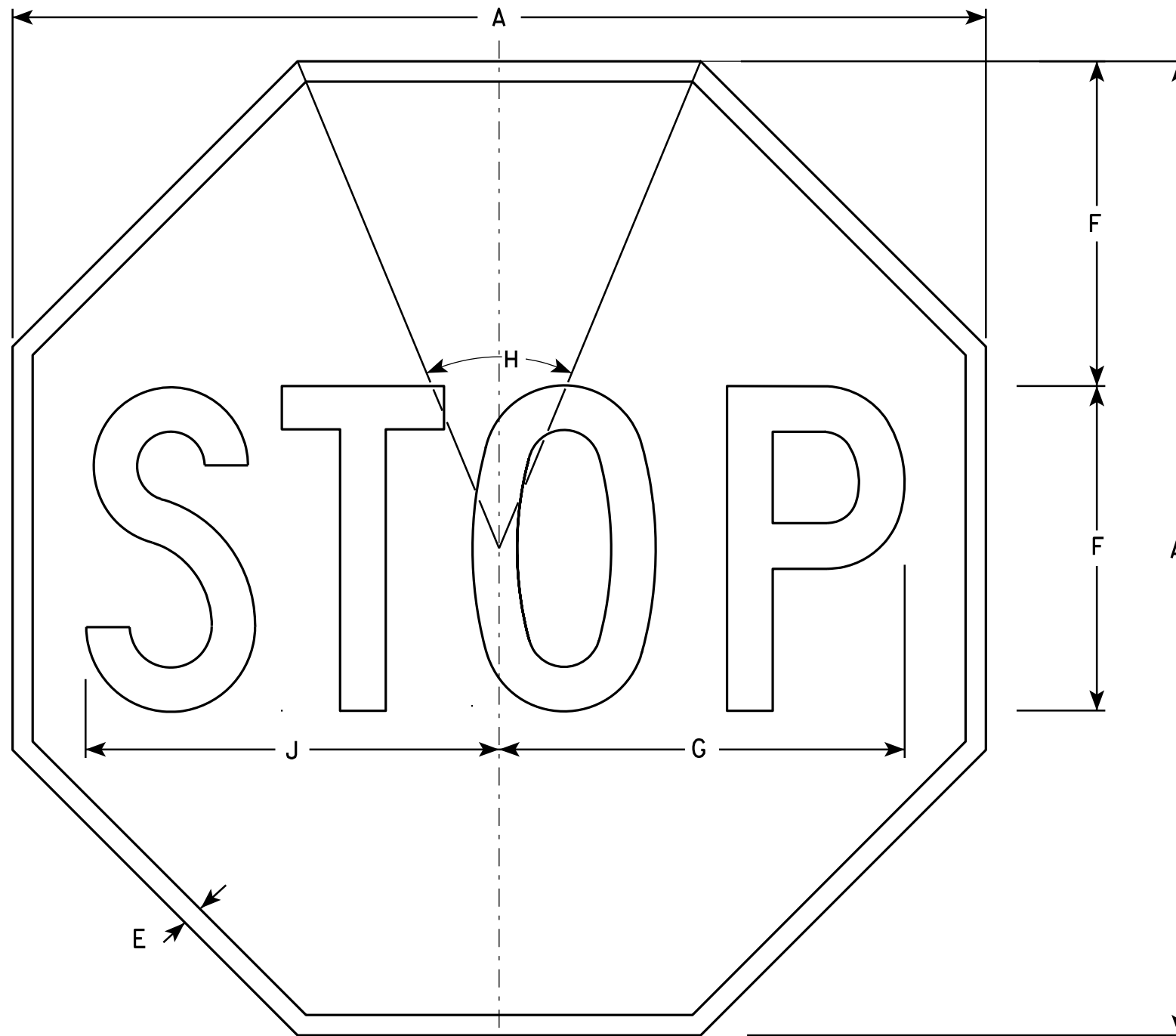
COUNTY:

DATE: 4/4/11

PLATE NO. R10-64.7

SHEET NO: 76

E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				$\frac{3}{8}$	8	10	45°		10 $\frac{1}{4}$																	3.31
2S	30				$\frac{5}{8}$	10	12 $\frac{1}{2}$	45°		12 $\frac{3}{4}$																	5.18
2M	36				$\frac{3}{4}$	12	15	45°		15 $\frac{3}{8}$																	7.46
3	36				$\frac{3}{4}$	12	15	45°		15 $\frac{3}{8}$																	7.46
4	48				1	16	20	45°		20 $\frac{1}{2}$																	13.25
5	48				1	16	20	45°		20 $\frac{1}{2}$																	13.25
6	18				$\frac{3}{8}$	6	7 $\frac{3}{4}$	45°		7 $\frac{3}{4}$																	1.86
7	12				$\frac{1}{4}$	4	5	45°		5 $\frac{1}{8}$																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

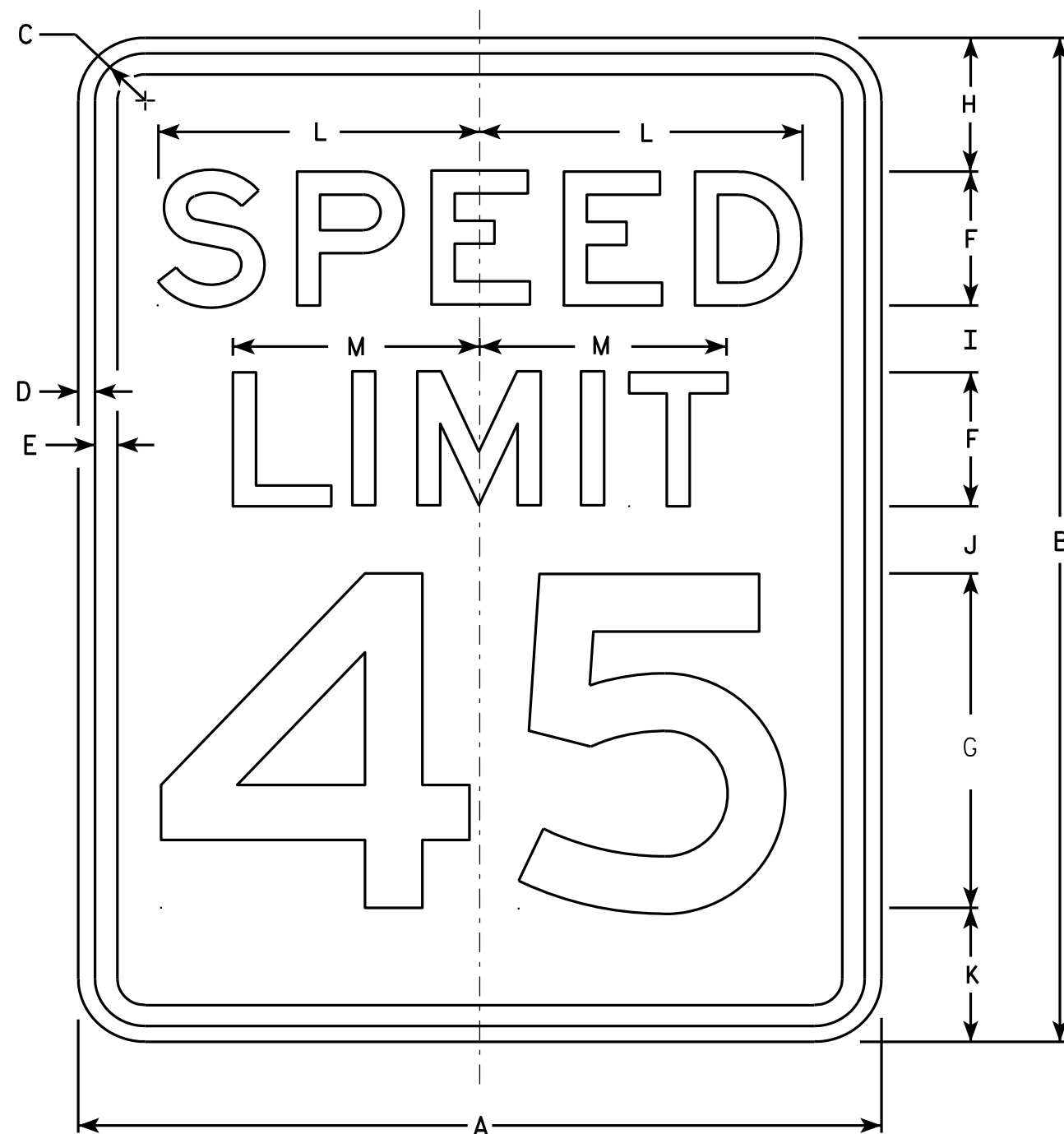
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 77

E



R2-1

NOTES

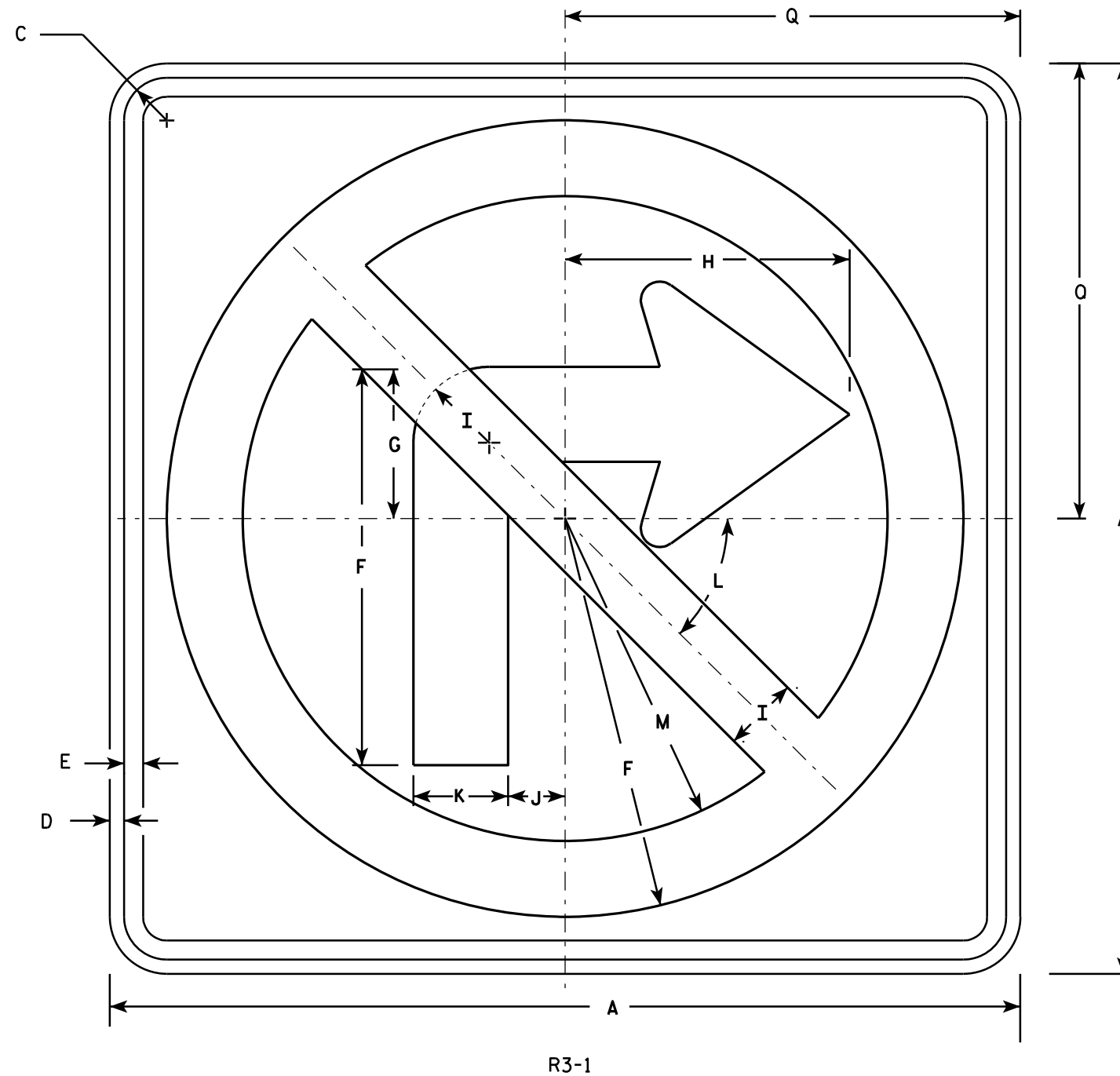
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as 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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN R2-1

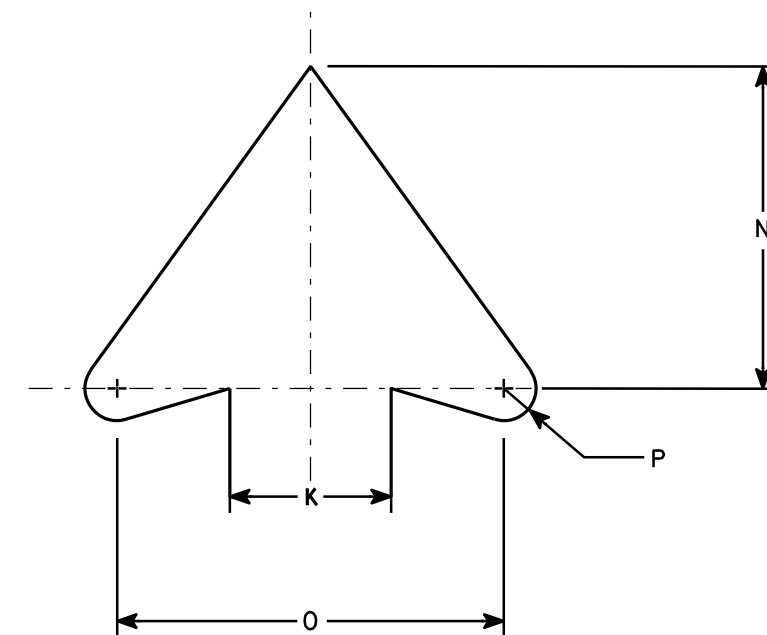
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: HWY: COUNTY: SHEET NO: 78 E



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 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.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

STANDARD SIGN

R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

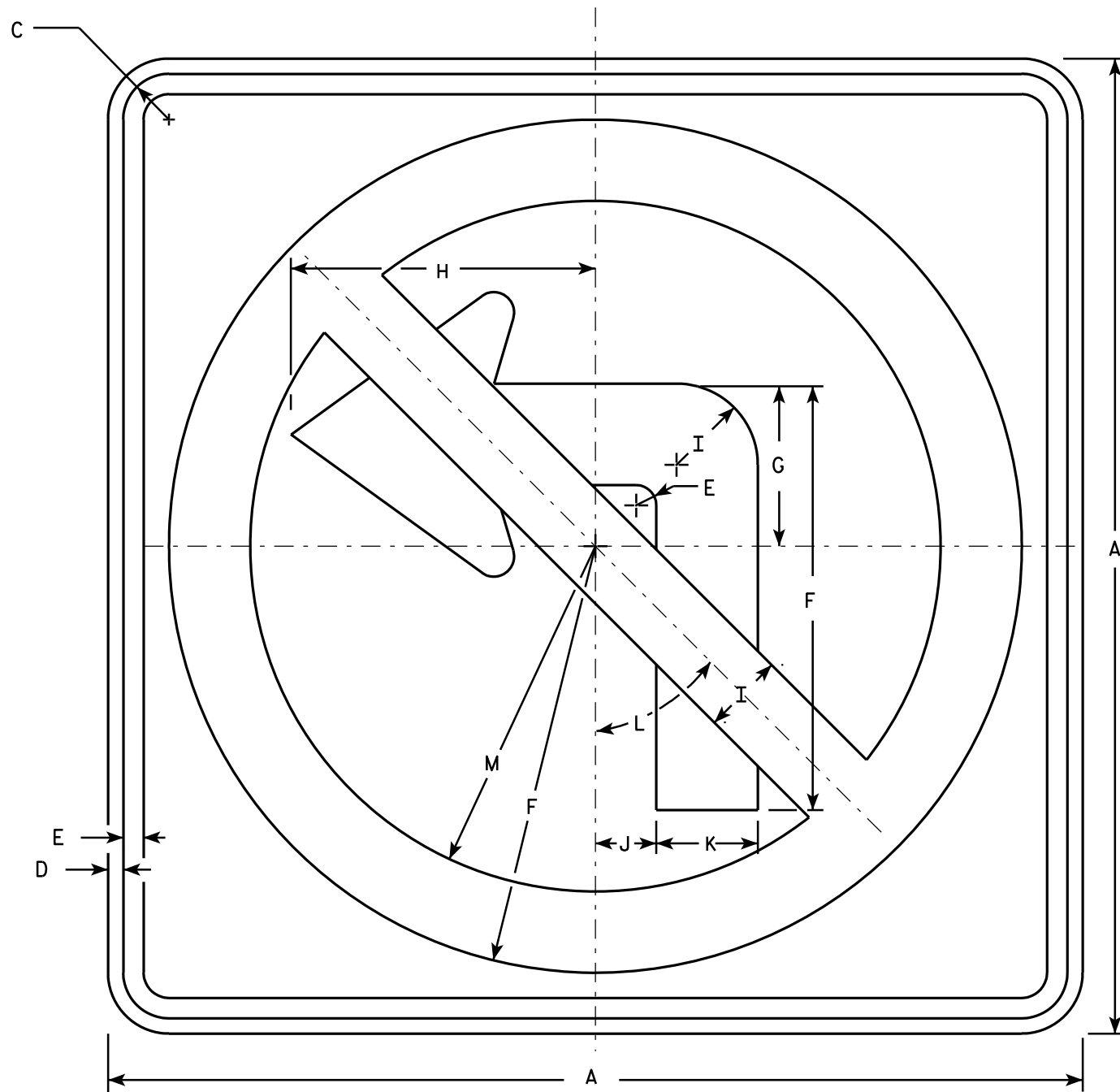
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 79

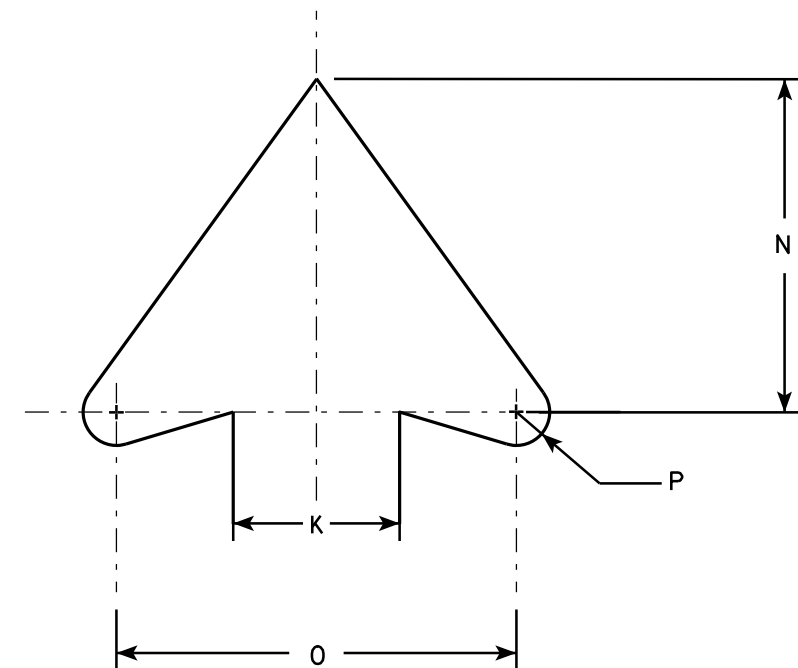
E



R3-2

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 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.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

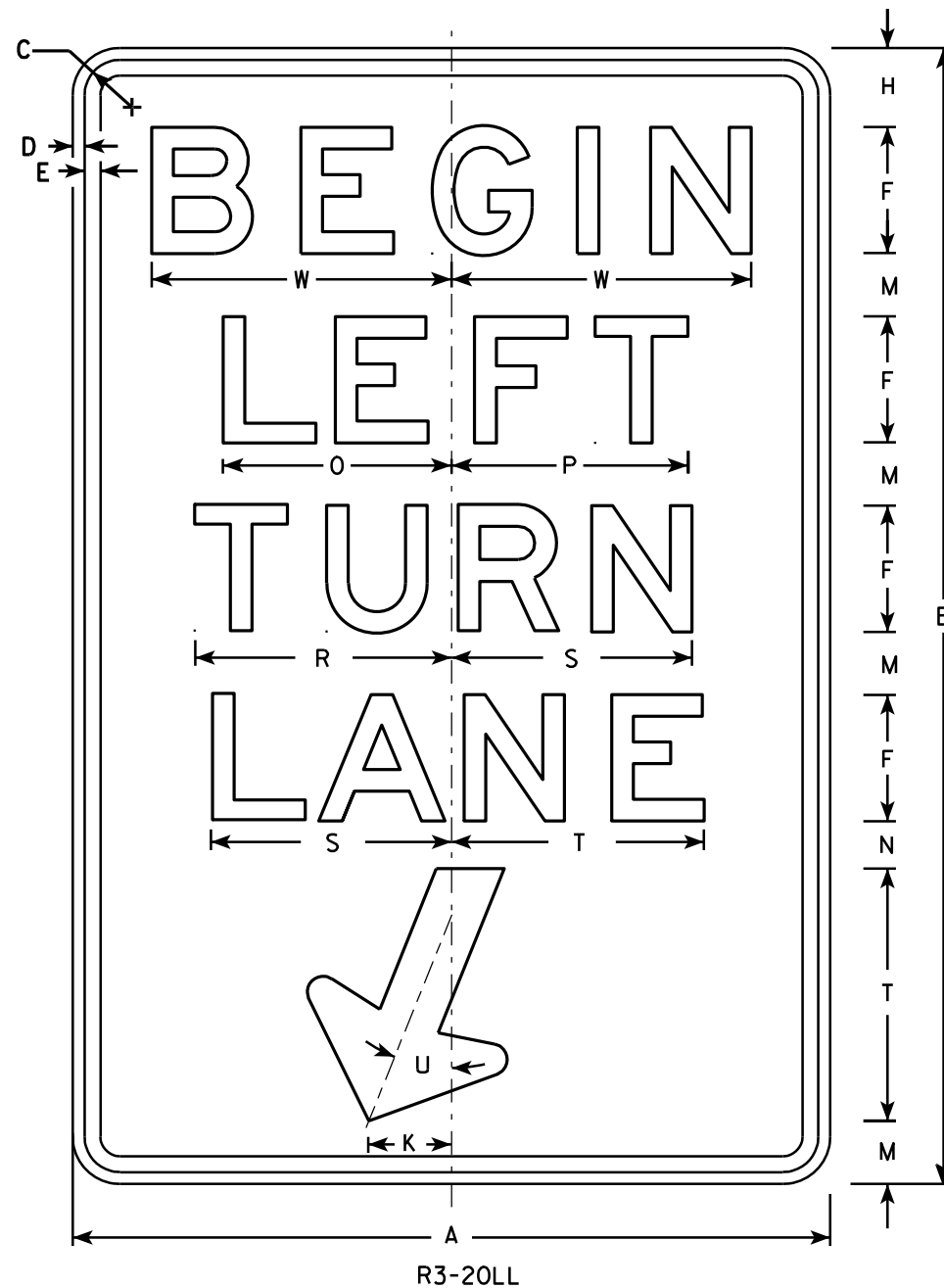
PROJECT NO:

HWY:

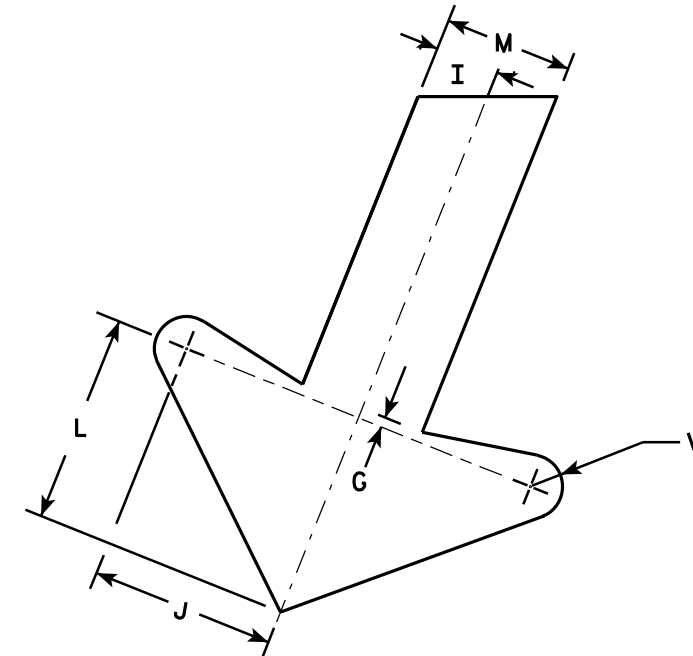
COUNTY:

SHEET NO: 80

E



- 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 - 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.



ARROW DETAIL

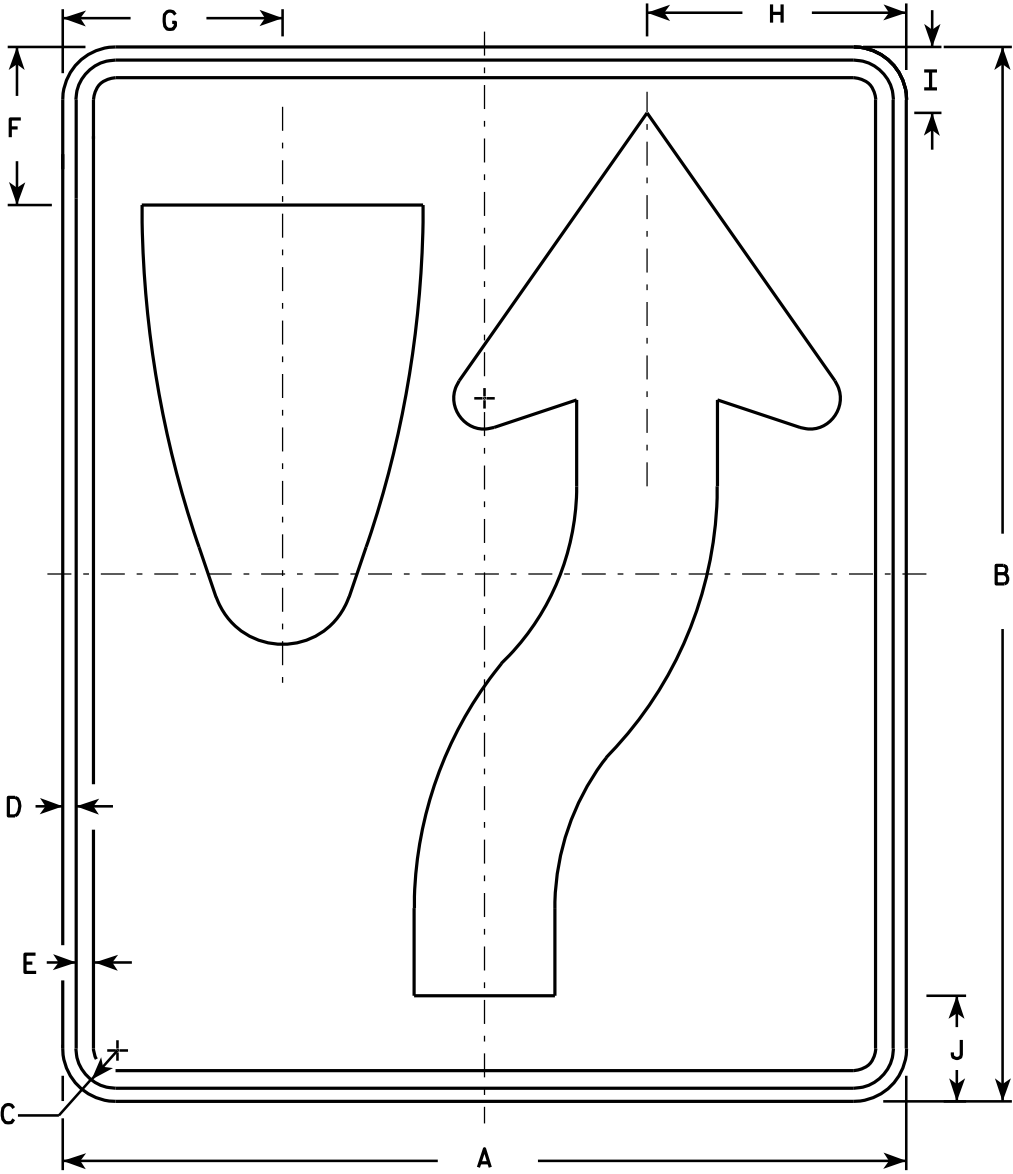
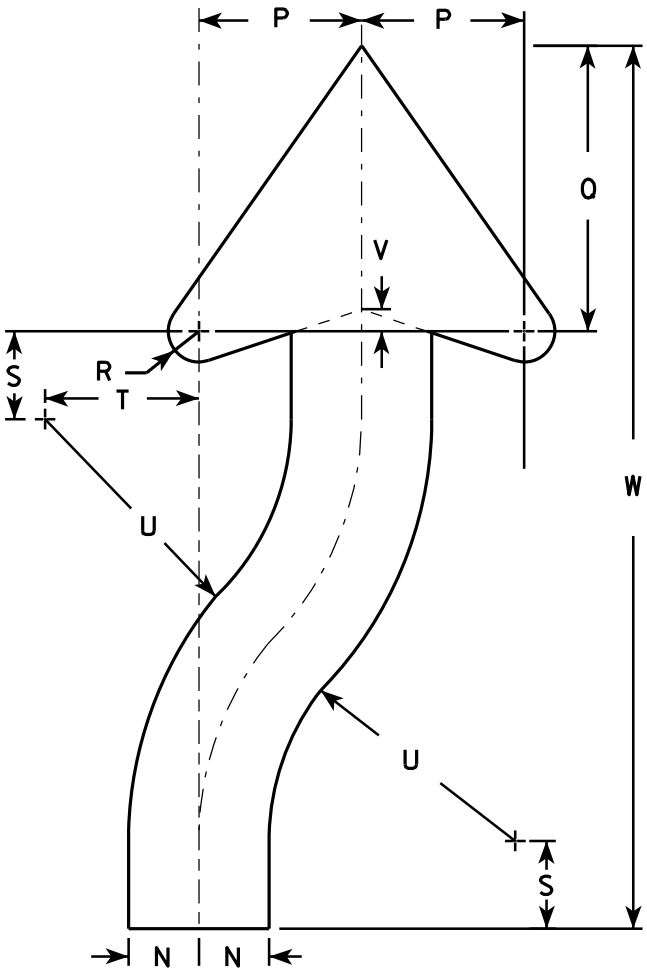
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN R3-20LL	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 10/18/10	PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 81	E
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NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
Background - White
Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

STANDARD SIGN

R4-7 & R4-8

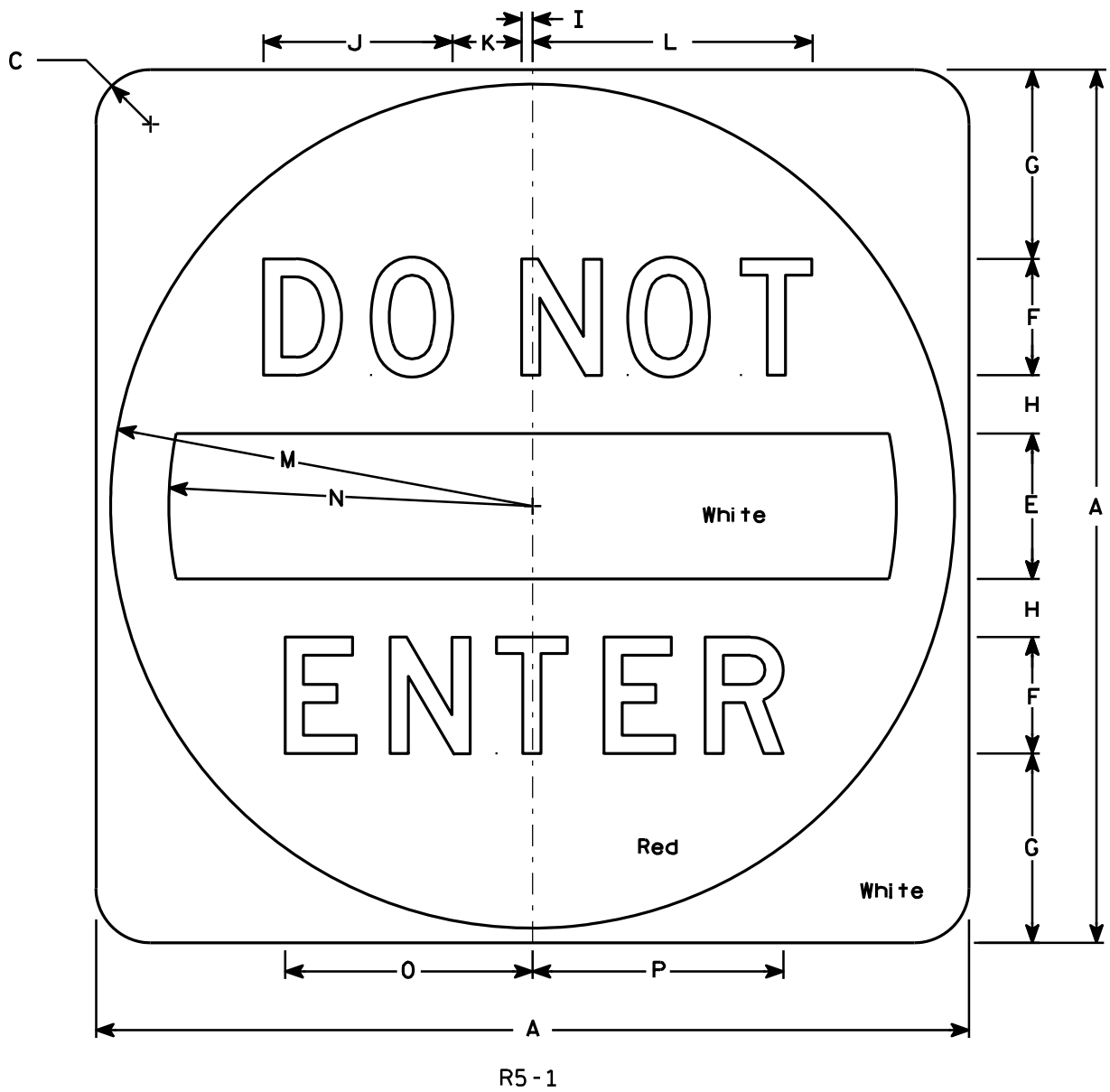
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

NOTES

- 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 corners shall be rounded.



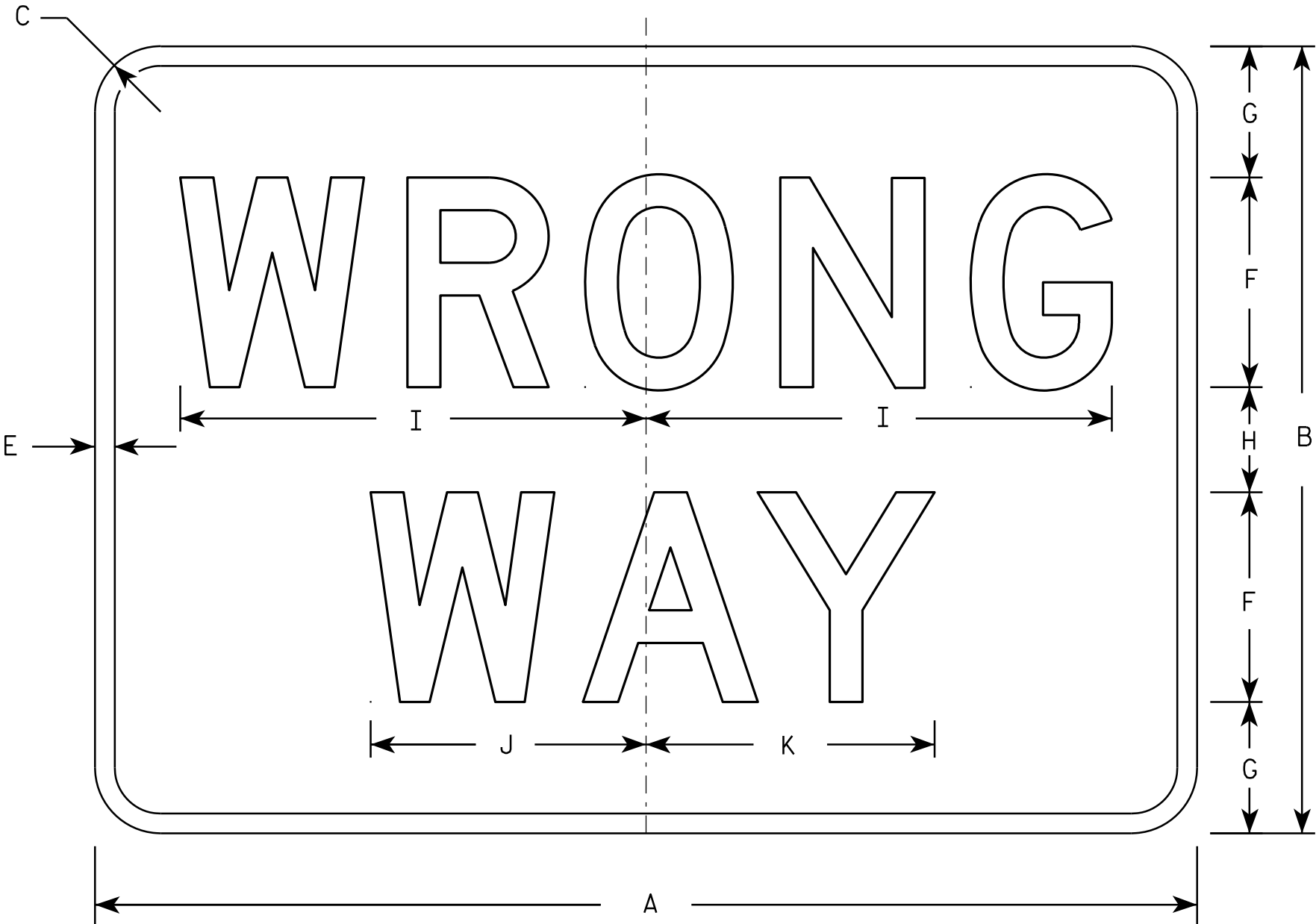
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7⁄8		5	4	6 1⁄2	2	3⁄8	6 1⁄2	2 3⁄8	9 5⁄8	14 1⁄2	12 1⁄2	8 1⁄2	8 5⁄8											6.26
2M	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
3	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	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 5⁄8	10 3⁄4											9.0
5	48		3		8	6	11	3	5⁄8	9 3⁄4	3 5⁄8	14 1⁄2	23 1⁄2	20	12 3⁄4	12 7⁄8											16.0

STANDARD SIGN
R5 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

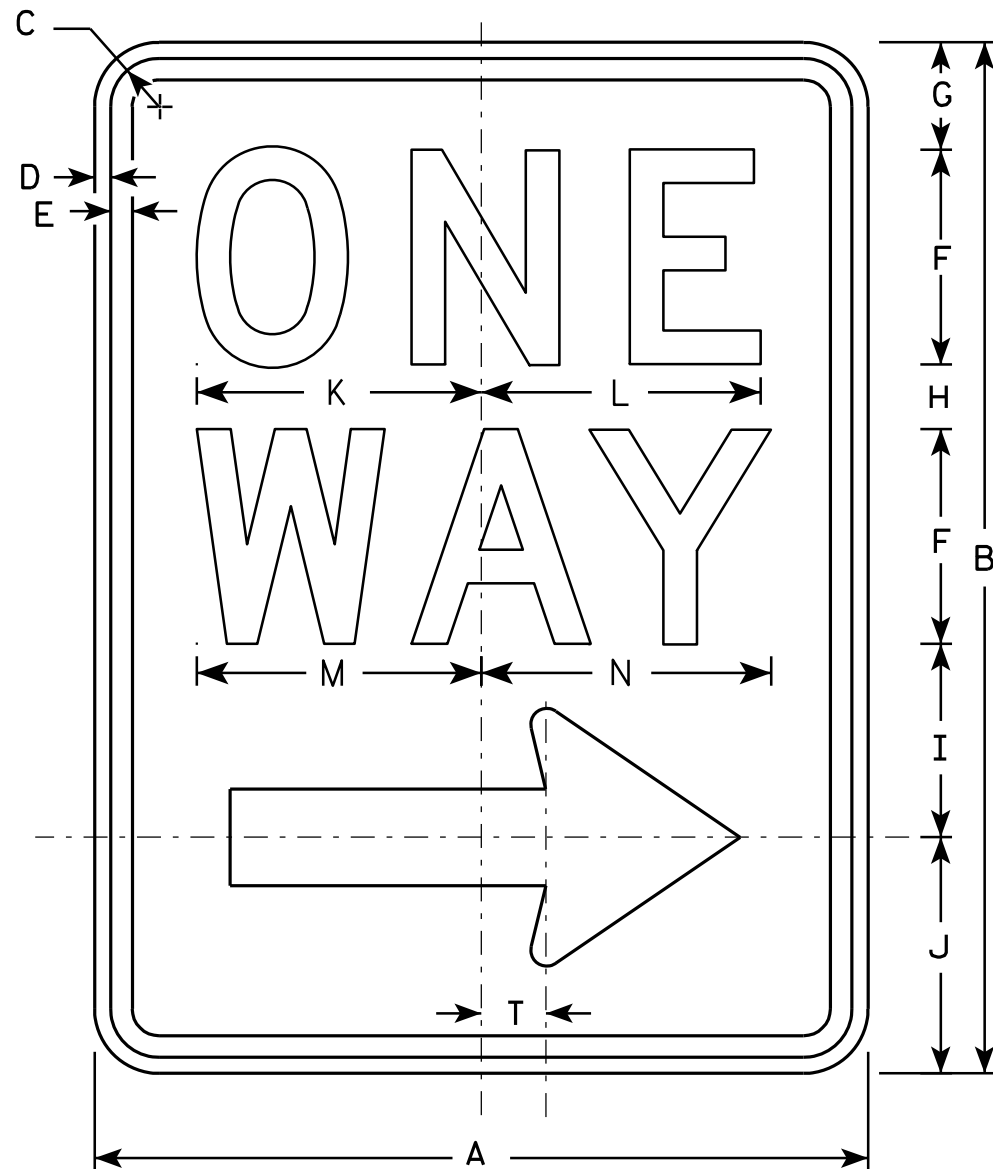
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 84

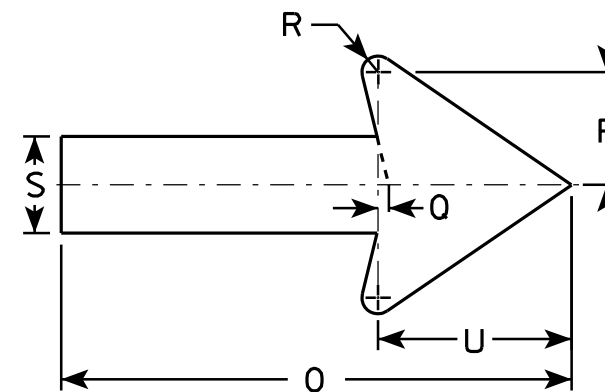
E



R6-2R

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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 85	E
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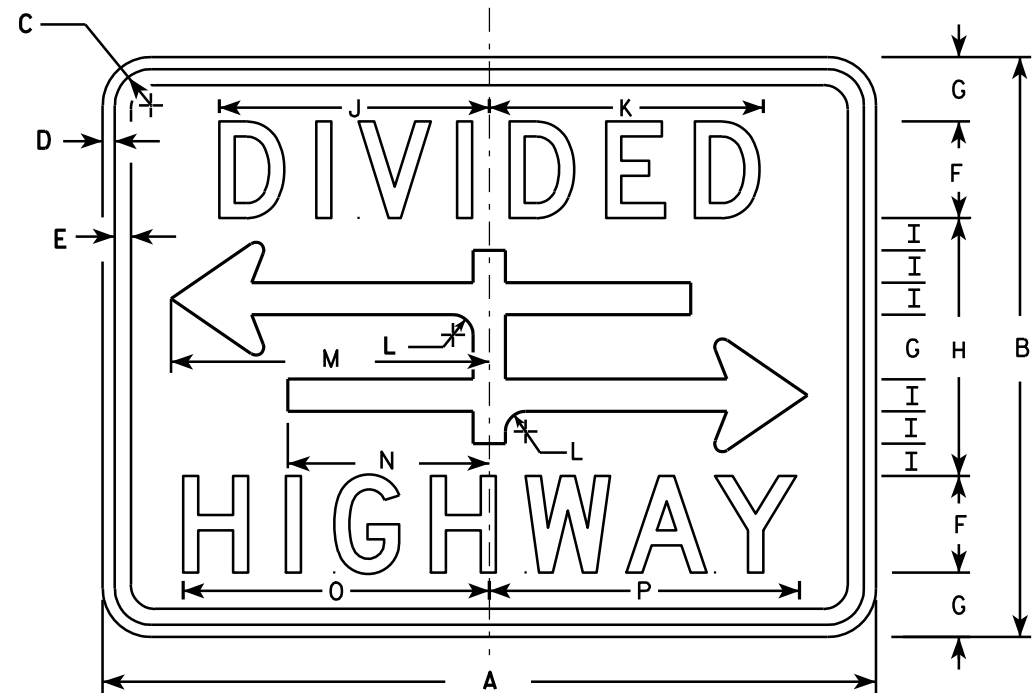
STANDARD SIGN

R6-2 R&L

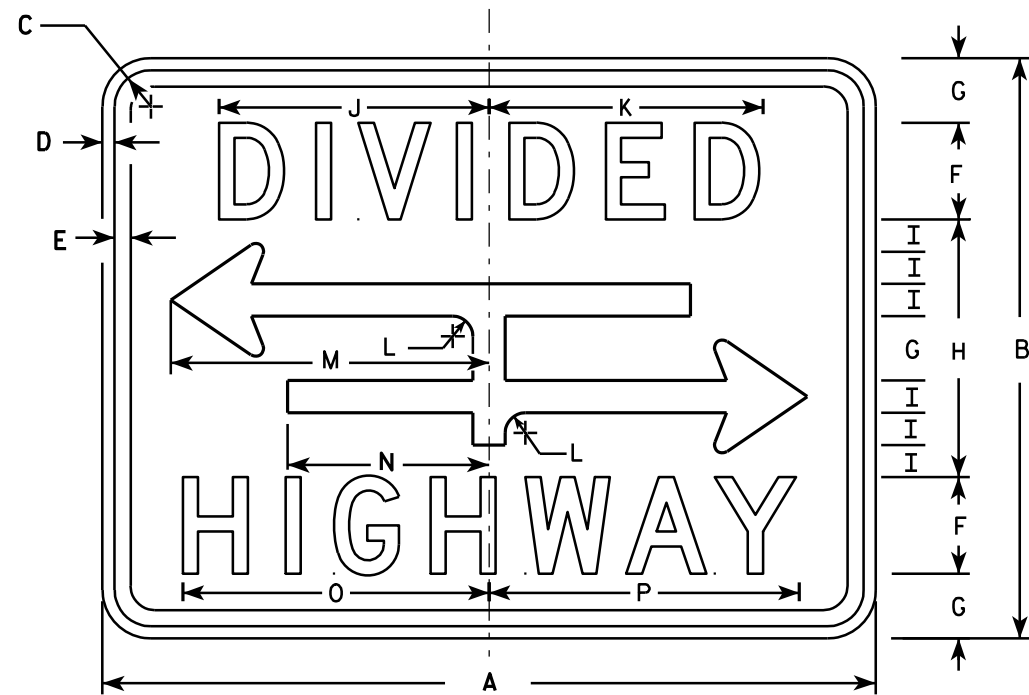
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8



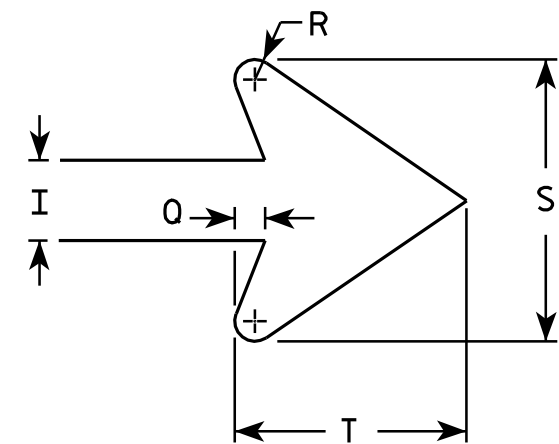
R6-3



R6-3A

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 - 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.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

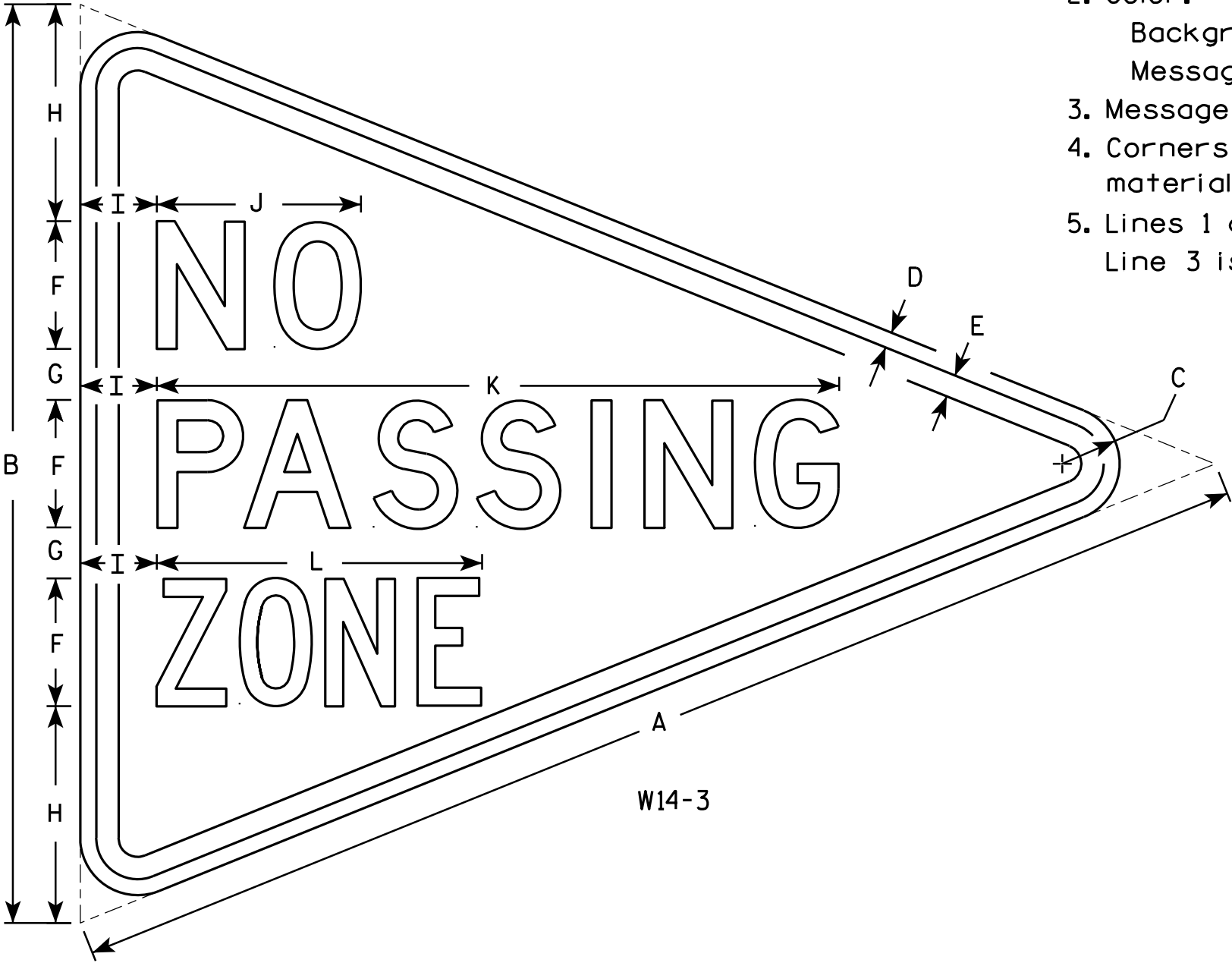
PROJECT NO:

SHEET NO: 86

E

NOTES

- 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 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D.
Line 3 is series C.



W14-3

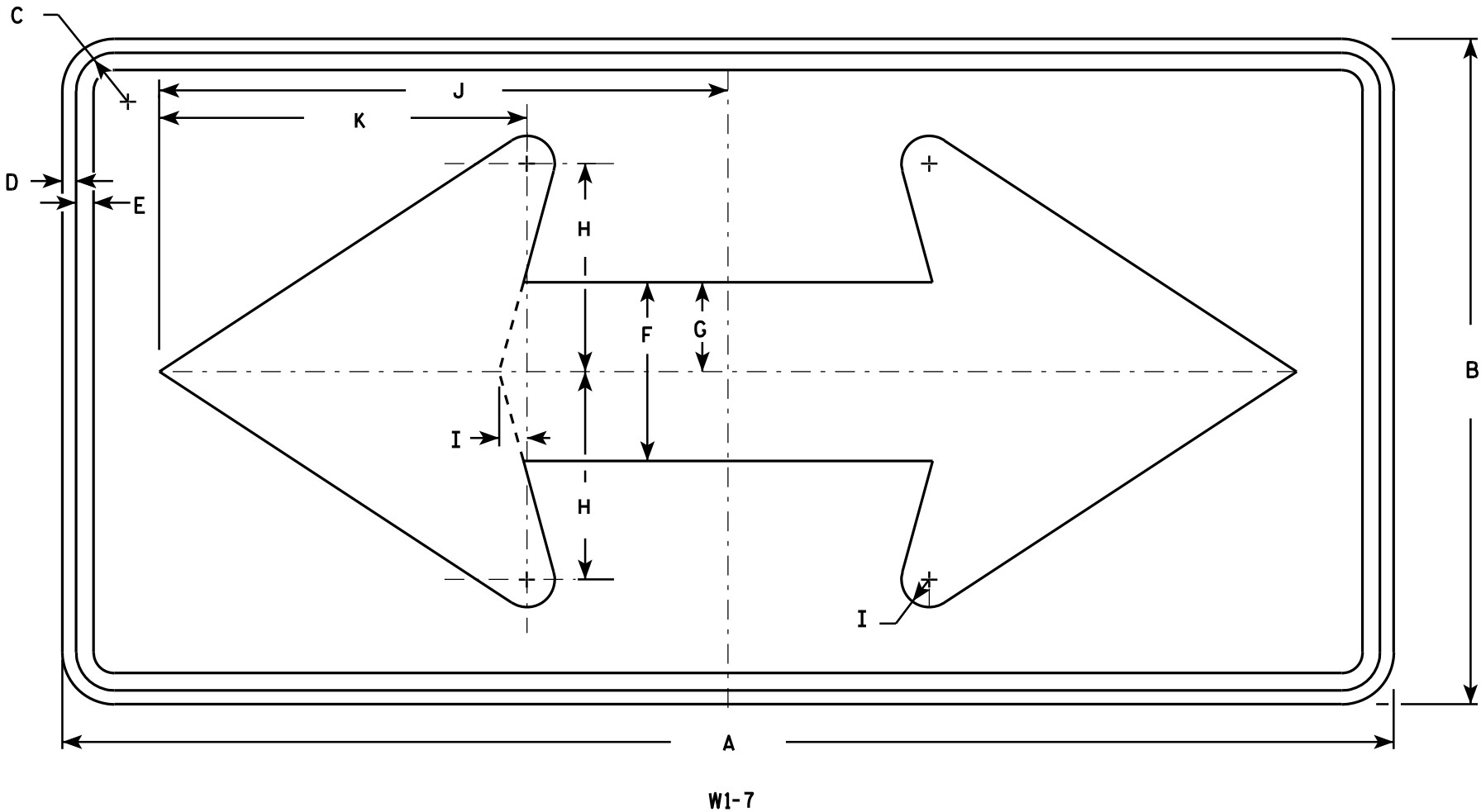
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9



NOTES

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

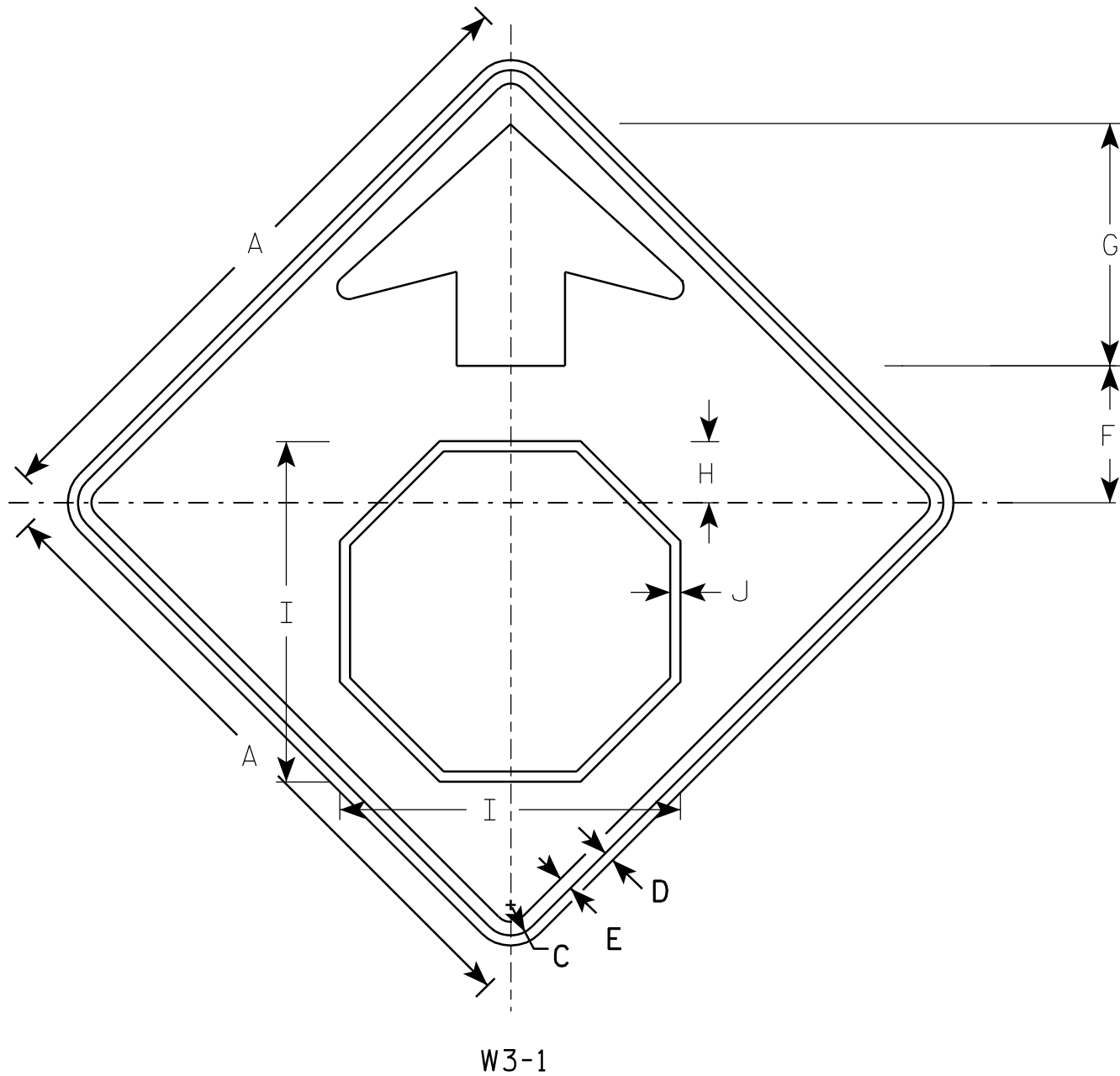
STANDARD SIGN

W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

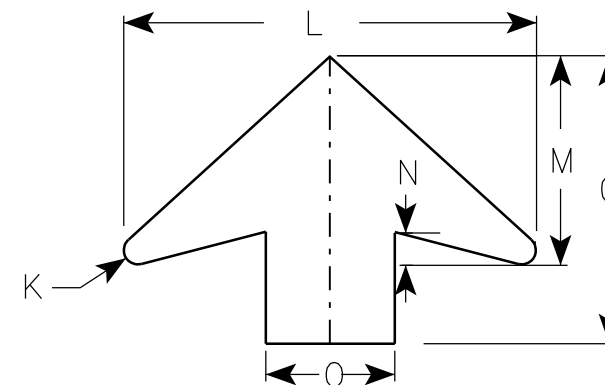
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7



NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - YELLOW
Arrow & Border - BLACK
Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

PROJECT NO:

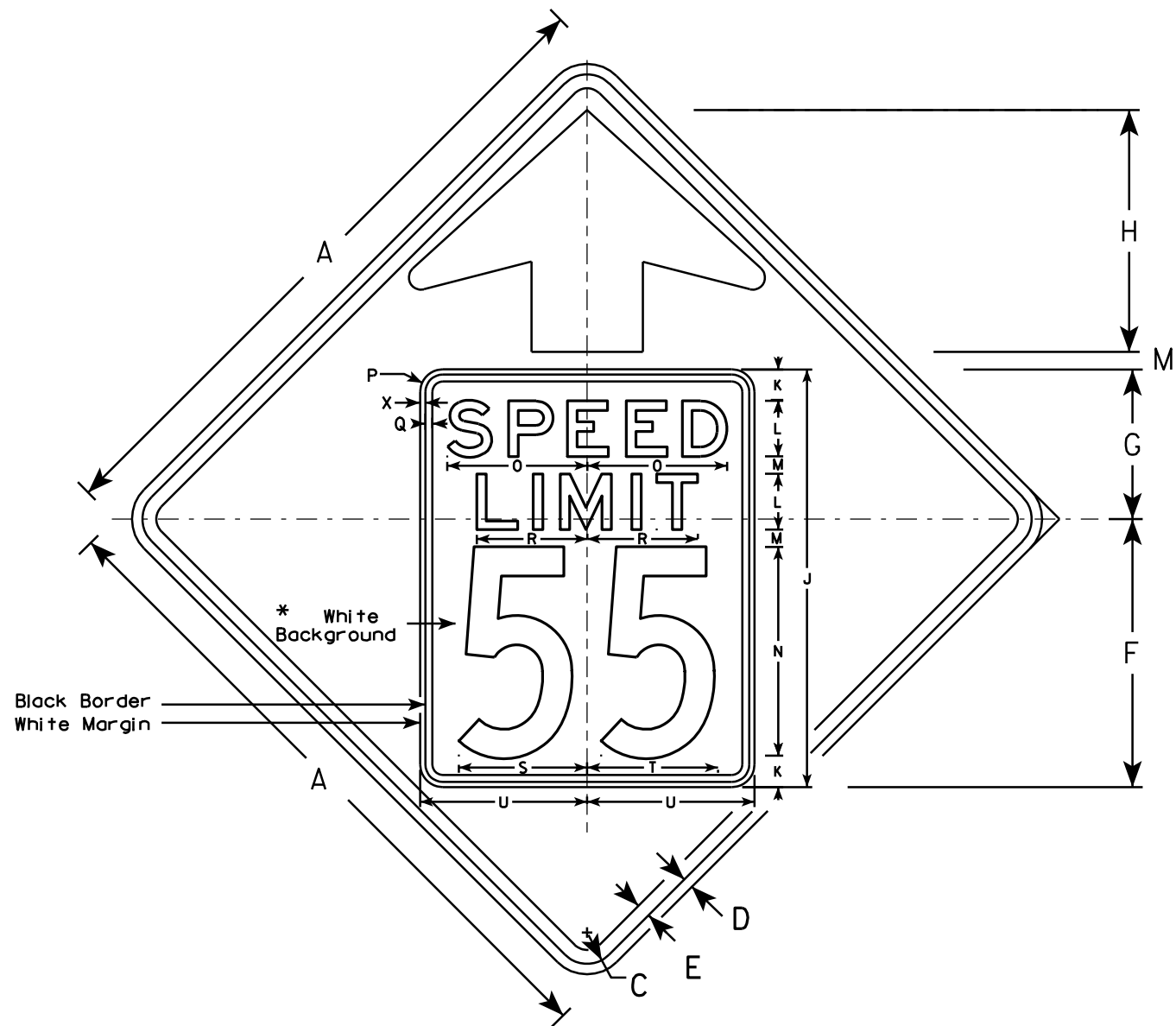
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO: 89

E

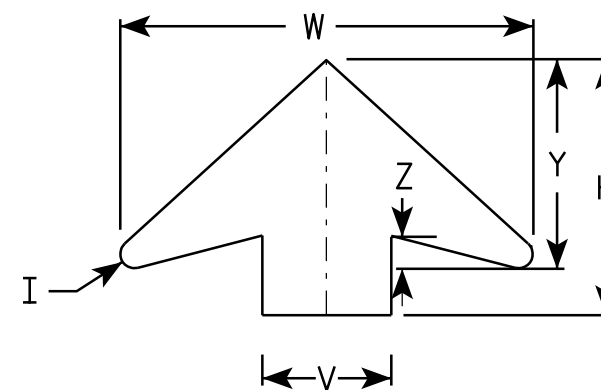


W3-5

NOTES

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	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 5/8	9.0
2M	36		1 5/8	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 5/8	9.0
3	36		1 5/8	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 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 5/29/12

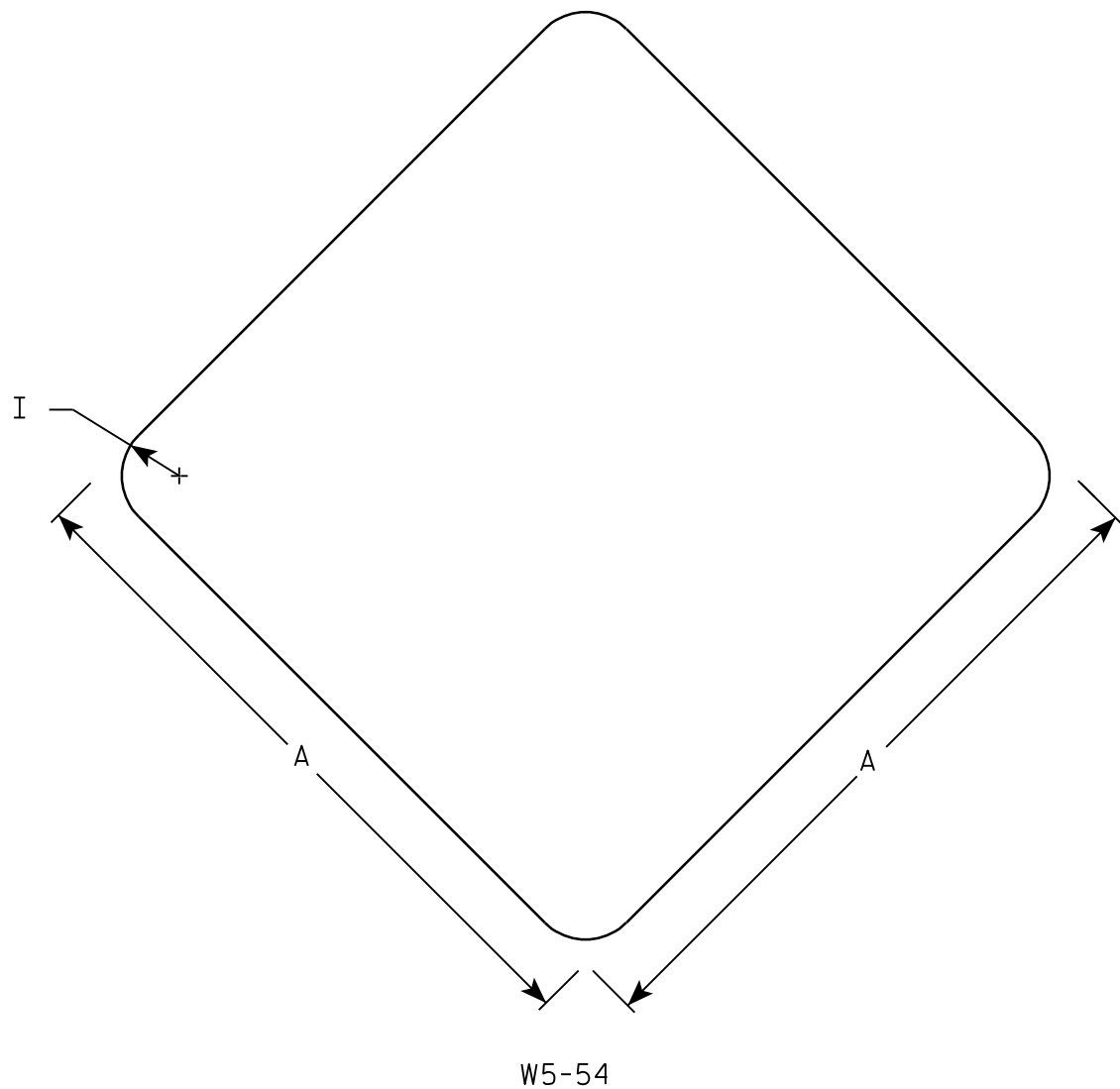
PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 90

E

7



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
- 3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 1/2																		2.25
2M	18								1 1/2																		2.25
3																											
4																											
5																											

STANDARD SIGN

W5-54

WISCONSIN DEPT OF TRANSPORTATION

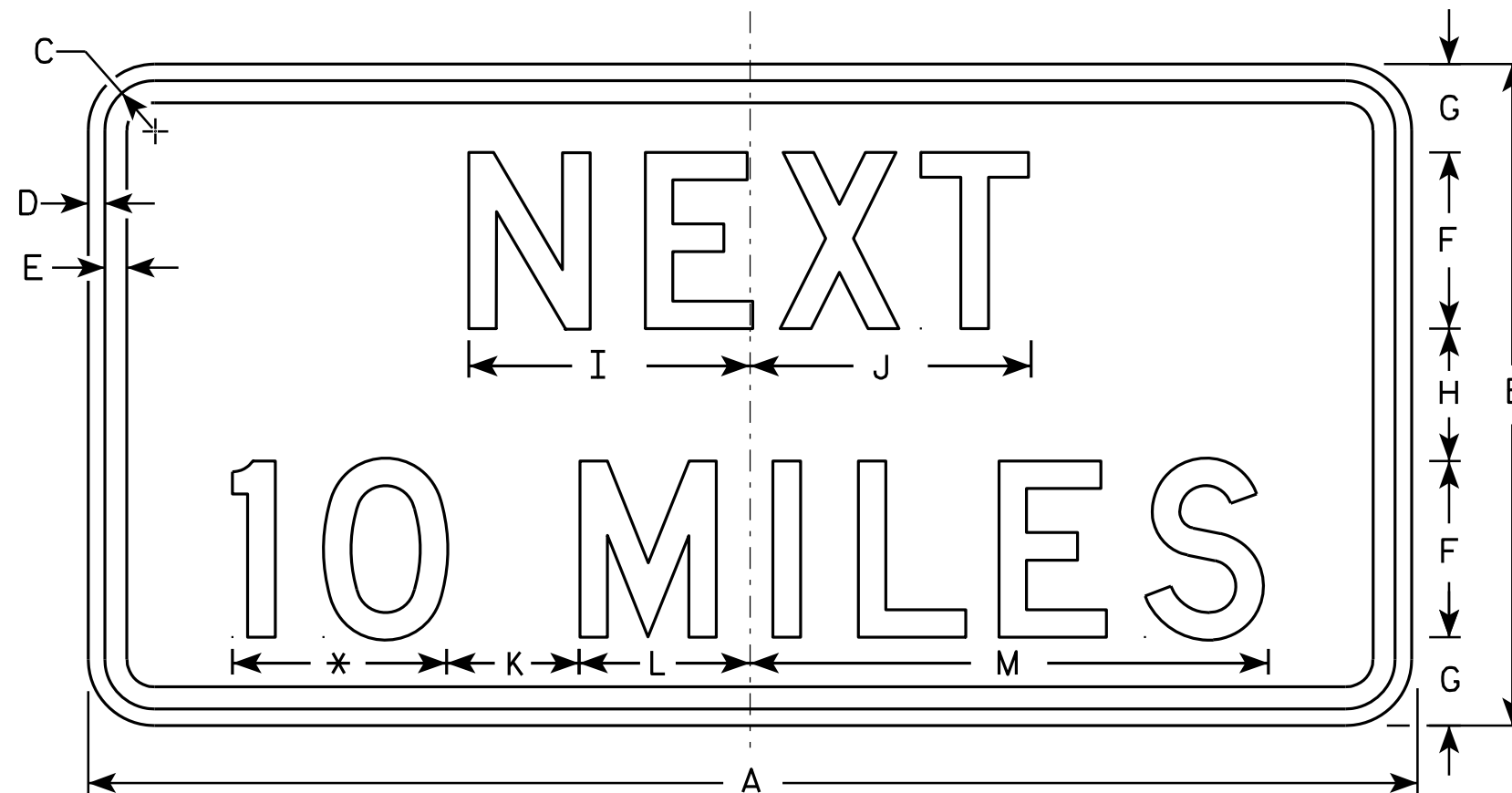
APPROVED *Matthew R Rauch*
For State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

NOTES

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
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.

* See note 5



W57-51

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	3	1 3/4	2 1/2	5	5 1/8	3	2 3/4	9 5/8														2.0
2S	30	15	1 1/8	3/8	1/2	4	2	3	6 3/8	6 3/8	3	3 7/8	11 3/4														3.13
2M	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
3	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0

STANDARD SIGN

W57-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W57-51.9

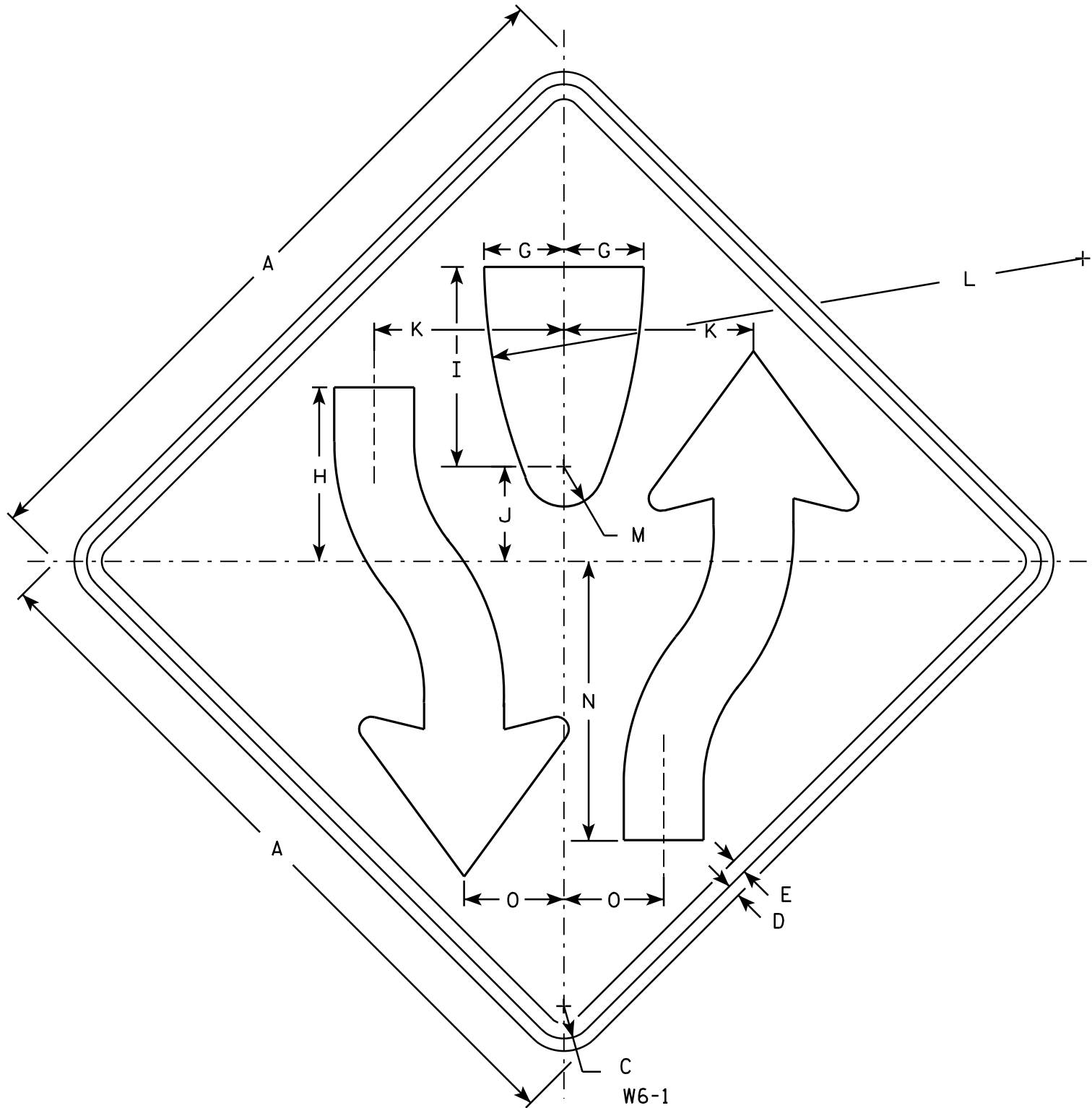
PROJECT NO:

HWY:

COUNTY:

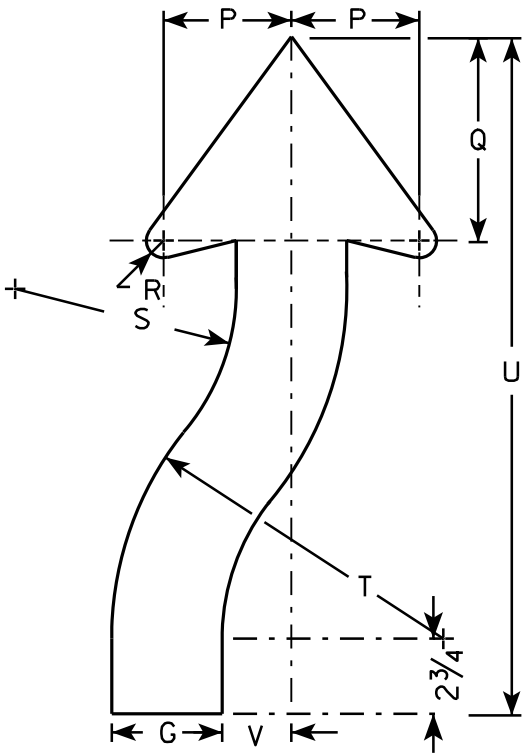
SHEET NO: 92

E



NOTES

- 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. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

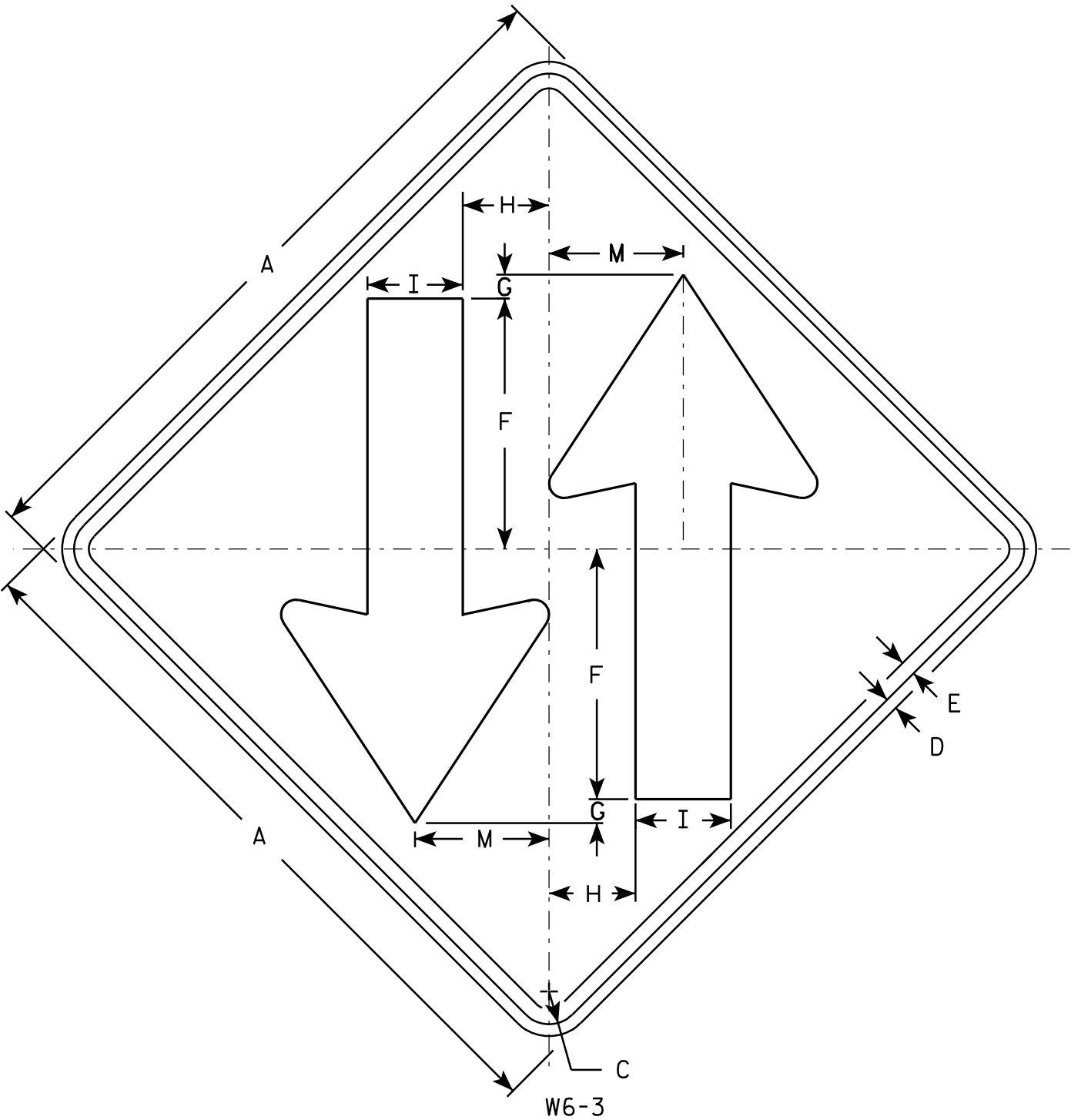
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

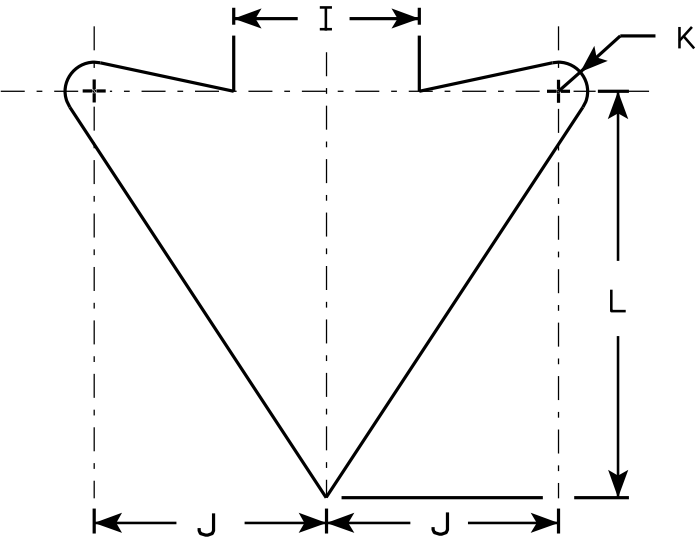
DATE 03/12/13 PLATE NO. W6-1.14



W6-3

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

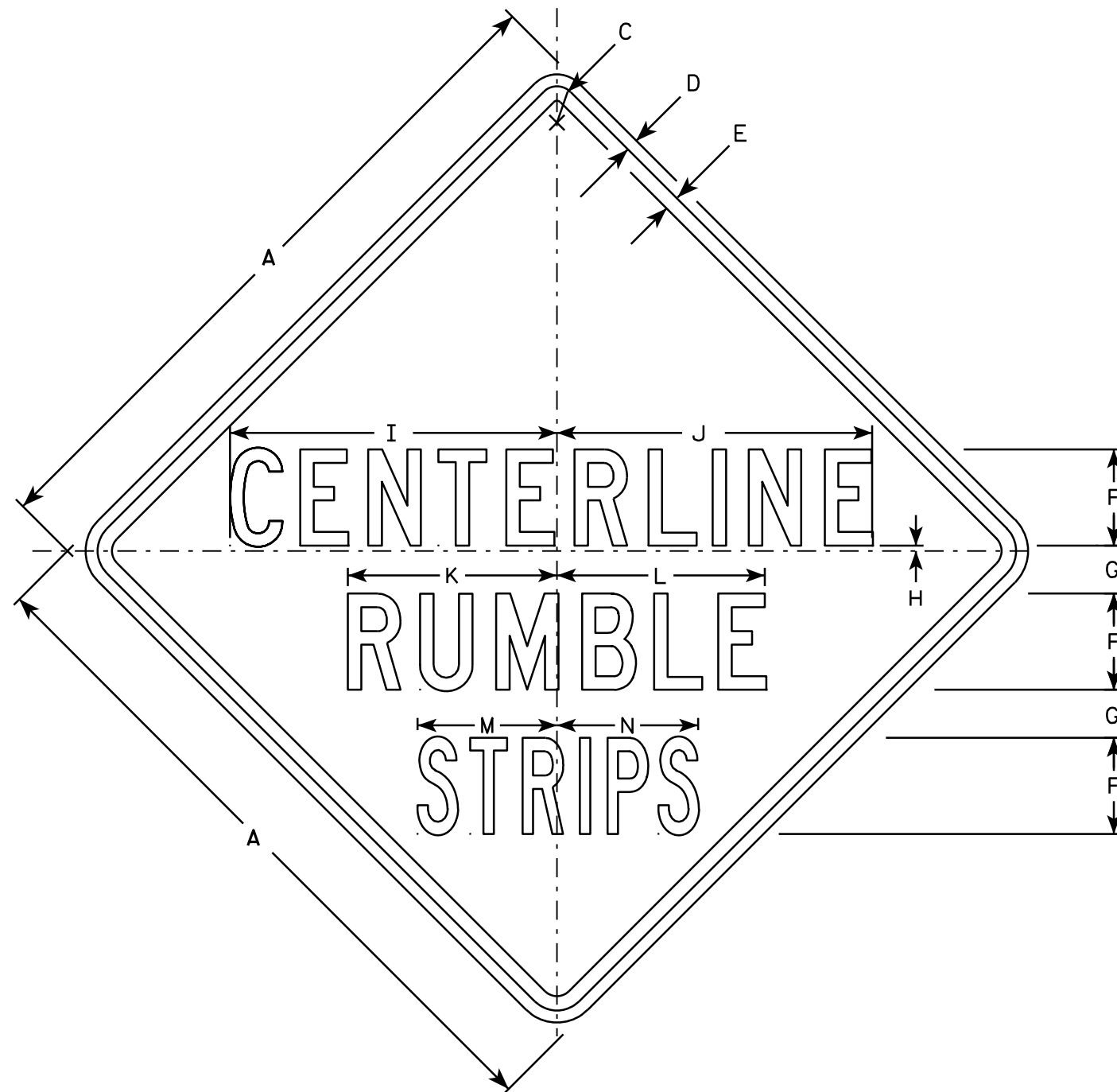
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10 1/2	1	3 5/8	4	5	5/8	8 3/4	5 5/8														6.25
2S	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W6 - 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-3.10



W8-70

NOTES

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 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. Line 1 and 2 are Series C.
Line 3 is Series B.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 7/8	10 3/4	7 1/4	7 3/8													9.0
2M	36		1 5/8	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 7/8	10 3/4	7 1/4	7 3/8													9.0
3	36		1 5/8	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 7/8	10 3/4	7 1/4	7 3/8													9.0
4																											
5																											

STANDARD SIGN

W8-70

WISCONSIN DEPT OF TRANSPORTATION

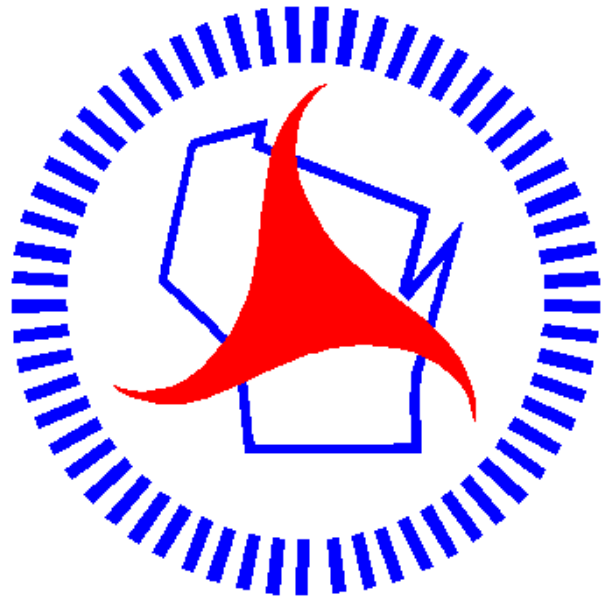
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 03/18/13 PLATE NO. W8-70.3

PROJECT NO:

SHEET NO: 95

E



Wisconsin Department of Transportation

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through innovation and exceptional service.

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