

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 Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 134



DESIGN DESIGNATION		
A.A.D.T.	2019	= 7,500
A.A.D.T.	2039	= 9,400
D.H.V.		= 1,000
D.D.		= 60/40
T.		= 19.4%
DESIGN SPEED		= 60 MPH
ESALS		= 3,500,000

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	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MENASHA - REEDSVILLE

STH 114 - STH 32/57

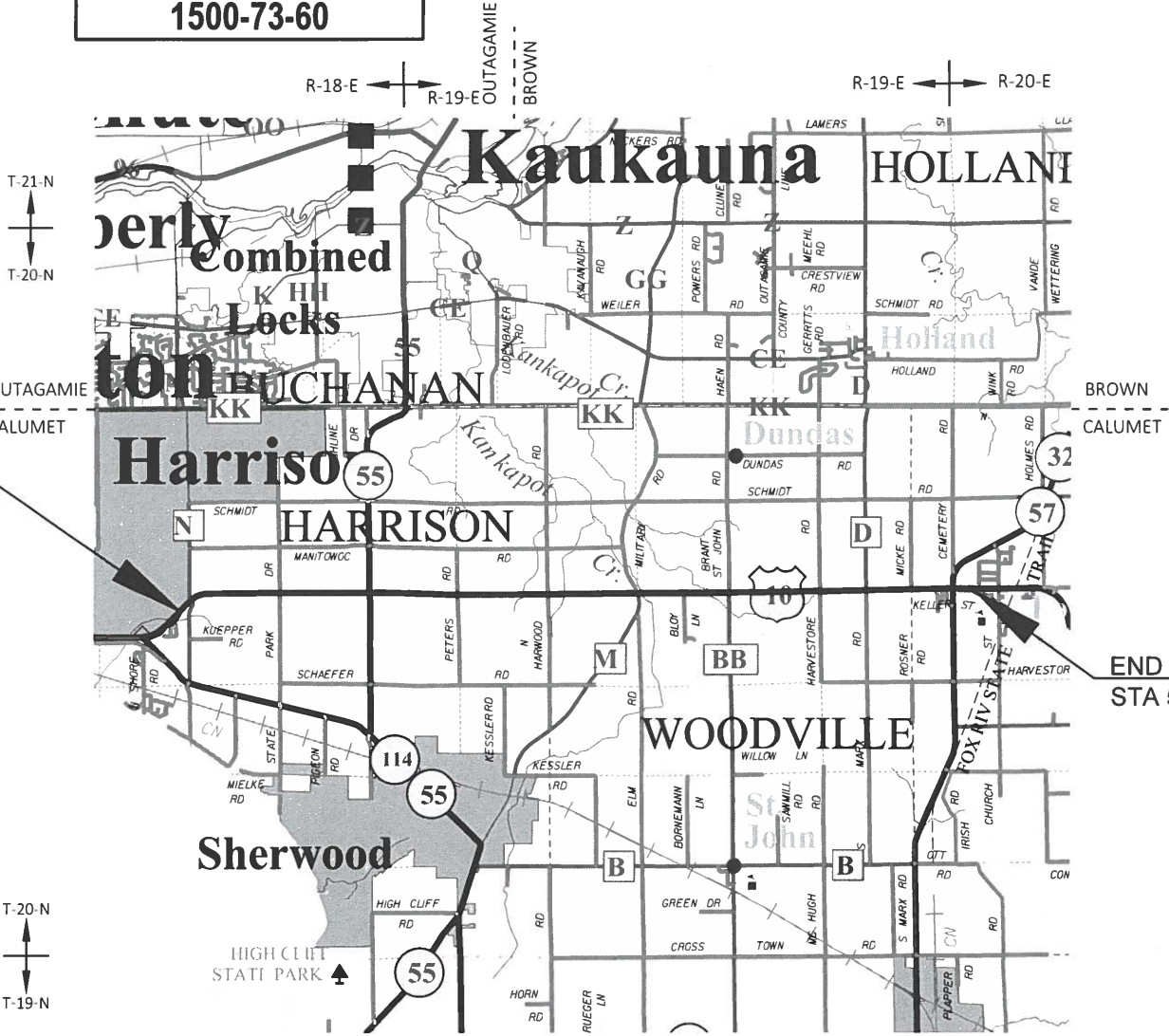
USH 10

CALUMET COUNTY

STATE PROJECT NUMBER
1500-73-60

BEGIN PROJECT
STA 114+79.00
Y: 543937.525
X: 848788.602

END PROJECT
STA 577+25



LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 8.759 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, CALUMET COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1500-73-60	WISC 2019293	1



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	OMNI ASSOCIATES
Designer	OMNI ASSOCIATES
Project Manager	T. VERHAGEN
Regional Examiner	
Regional Supervisor	C. DEGRAVE

APPROVED FOR THE DEPARTMENT
DATE: 1/30/2018 Timothy Verhagen (signature)

UTILITIES

ELECTRIC TRANSMISSION	ATC TONY MARCINIAK W234 N2000 RIDGEVIEW PARKWAY COURT P.O. BOX 47 WAUKESHA, WI 53187-0047 TELEPHONE: (262) 506-6814 TMARCINIAK@ATCLLC.COM
GAS	WISCONSIN PUBLIC SERVICE LORI BUTRY 700 N ADAMS ST P.O. BOX 19001 GREEN BAY, WI 54307-9001 TELEPHONE: (920) 433-1703 LABUTRY@INTEGRYSGROUP.COM WE ENERGIES - GAS DAN SANDE 333 WEST EVERETT ST, ROOM A299 MILWAUKEE, WI 53203 TELEPHONE: (414) 221-4578 DAN.SANDE@WE-ENERGIES.COM
CABLE TV	CHARTER/TWC VINCE ALBIN 3520 EAST DESTINATION DRIVE APPLETON, WI 54915 TELEPHONE: (920) 831-9249 VINCE.ALBIN@CHARTER.COM
ELECTRIC	WISCONSIN PUBLIC SERVICE LORI BUTRY 700 N ADAMS ST P.O. BOX 19001 GREEN BAY, WI 54307-9001 TELEPHONE: (920) 433-1703 LABUTRY@INTEGRYSGROUP.COM WE ENERGIES - ELECTRIC DAN SANDE 333 WEST EVERETT ST, ROOM A299 MILWAUKEE, WI 53203 TELEPHONE: (414) 221-4578 DAN.SANDE@WE-ENERGIES.COM



UTILITIES

COMMUNICATION	AT&T JOSEPH KASSAB 221 W WASHINGTON ST APPLETON, WI 54911-4742 TELEPHONE: (920) 735-3206 JK572K@ATT.COM NET LEC, LLC RICK VINCENT 450 SECURITY BLVC PO BOX 19079 GREEN BAY, WI 54307-9079 TELEPHONE: (920) 617-7316 RICK.VINCENT@NSIGHT.COM TDS TELECOM STEVE JAKUBIEC 10 COLLEGE AVE, SUITE 218A APPLETON, WI 54911 TELEPHONE: (920) 882-4166 STEVE.JAKUBIEC@TDSTELECOM.COM
GAS/PETROLEUM	ANR PIPELINE LAWRENCE HUBER W3925 PIPELINE LANE EDEN, WI 53019 TELEPHONE: (920) 477-2235 LAWRENCE_HUBER@TRANSCANADA.COM GUARDIAN PIPELINE ADAM THEIS ONEOK PARTNERS 128 M B LANE CHILTON, WI 53014 ADAM.THEIS@ONEOK.COM

OTHER CONTACTS

DNR LIAISON	MATTHEW SCHAEVE DNR NORTHEAST REGIONAL HQ 2984 SHAWANO AVE GREEN BAY, WI 54313 TELEPHONE: 920-366-1544 EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV
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SURVEY CONTACT

NE REGION SURVEY COORDINATOR	CORMAC MCINNIS WISDOT NORTHEAST REGION 944 VANDERPERREN WAY GREEN BAY, WI 54304 TELEPHONE: 920-492-5638 EMAIL: CORMAC.MCINNIS@DOT.WI.GOV
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GENERAL NOTES

LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.UTILITY FACILITIES WILL BE RELOCATED AS DESCRIBED IN THE SPECIAL PROVISIONS.

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

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, FIELD ENTRANCES AND COMMERCIAL ENTRANCES SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.

MISCELLANEOUS REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWCUT AS SHOWN ON THE PLANS

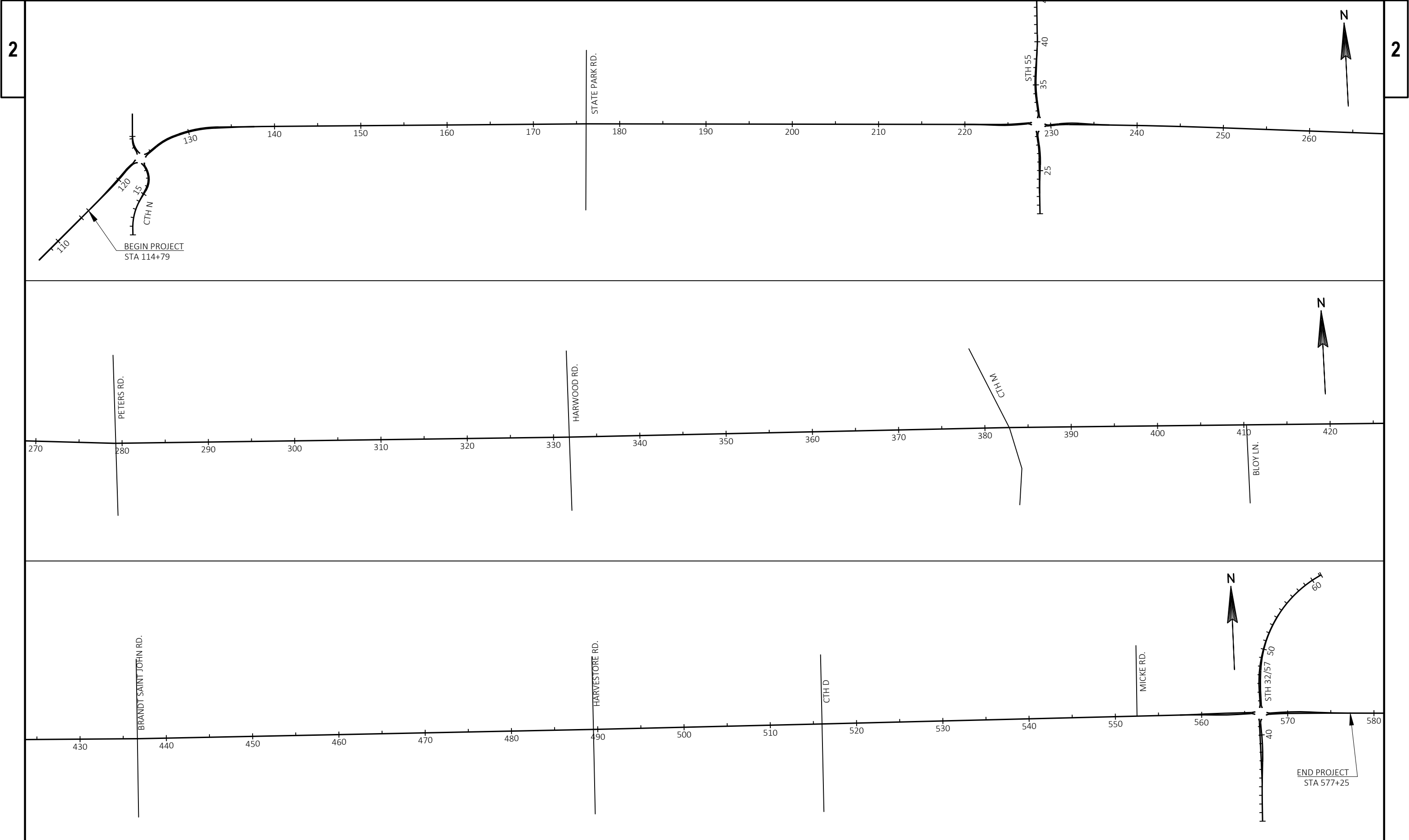
A BUTT JOINT SHALL BE PROVIDED AT ALL LOCATIONS WHERE NEW PAVEMENT MATCHES EXISTING PAVEMENT

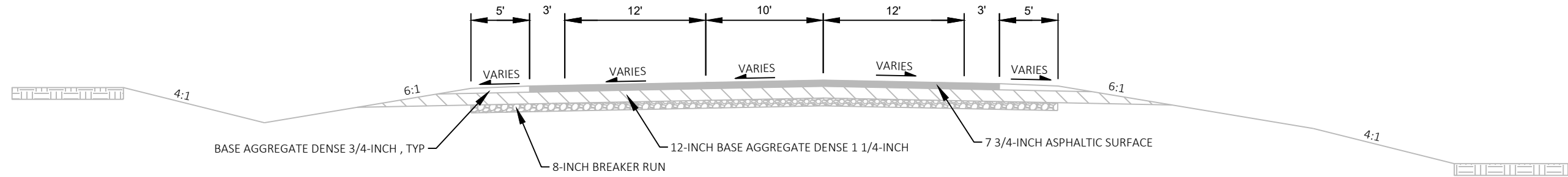
BUTT JOINT LOCATIONS SHOWN ON THE PLANS ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD

EROSION CONTROL NOTES

RUNOFF COEFFICIENT FOR THIS PROJECT:
EXISTING PAVEMENT 0.95, EXISTING SLOPES 0.30,
NEW PAVEMENT 0.95, NEW SLOPES 0.30.

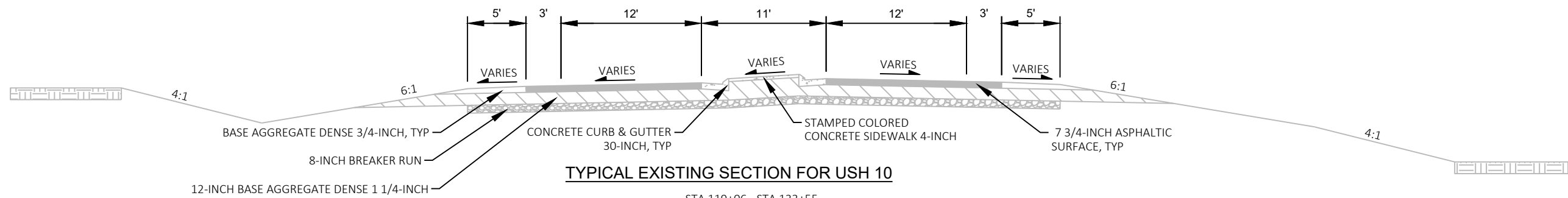
TOTAL PROJECT AREA = 42.08 ACRES.
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 32.08 ACRES.





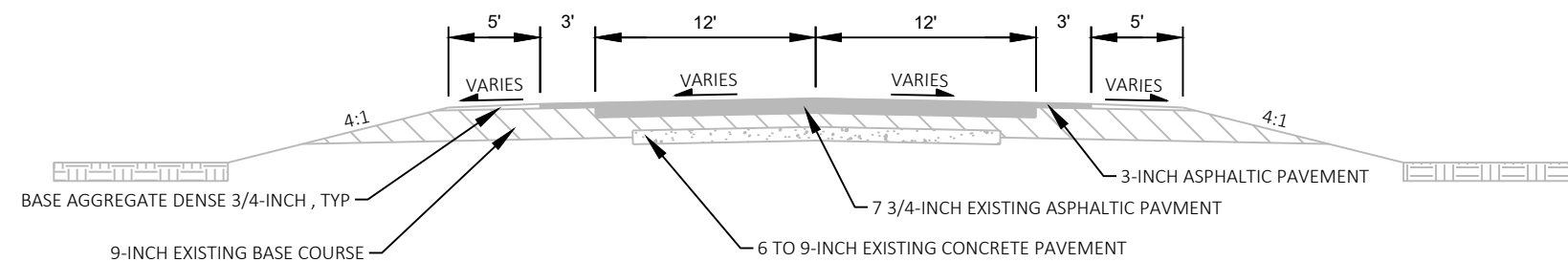
TYPICAL EXISTING SECTION FOR USH 10

STA 114+79 - STA 119+06



TYPICAL EXISTING SECTION FOR USH 10

STA 119+06 - STA 133+55
STA 219+77 - STA 238+28



TYPICAL EXISTING SECTION FOR USH 10

STA 133+55 - STA 219+77
STA 238+28 - STA 557+49

PROJECT NO: 1500-73-60

HWY: USH 10

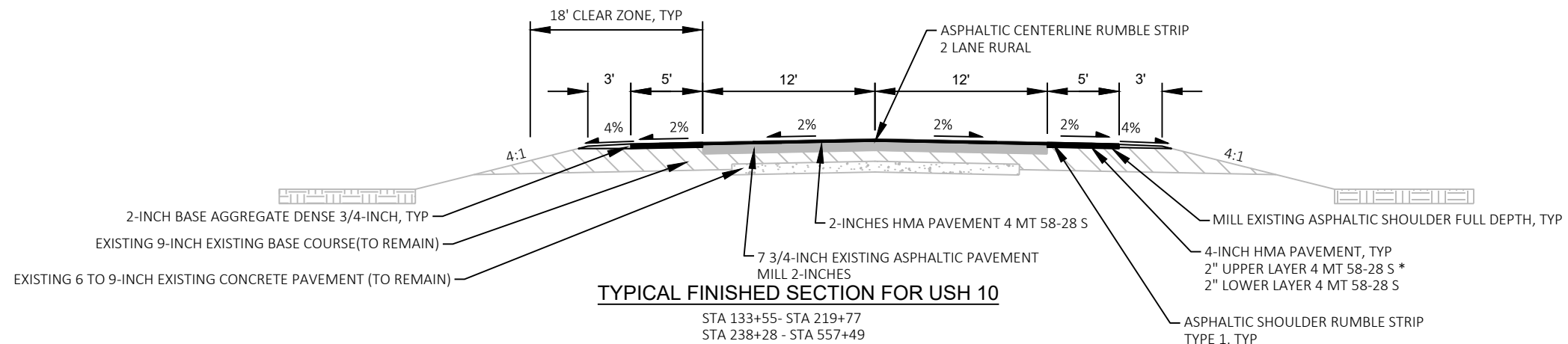
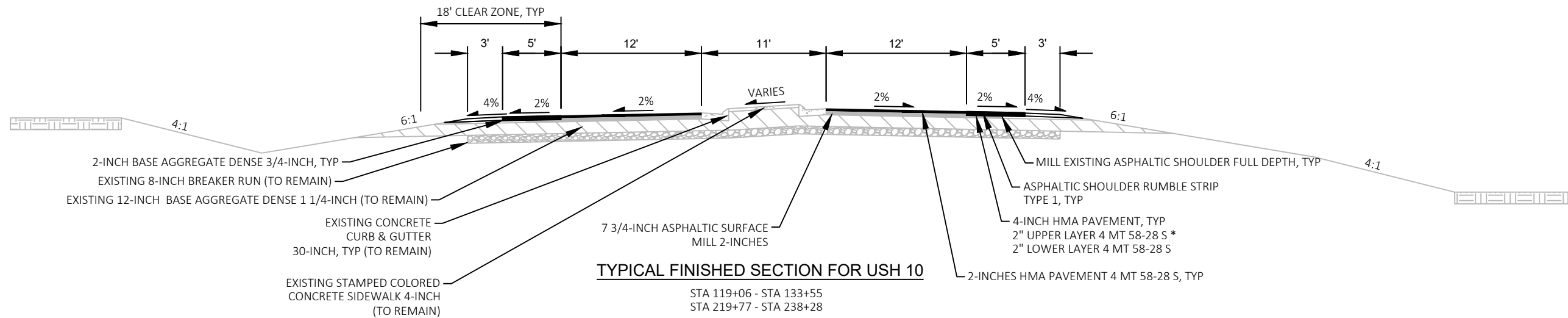
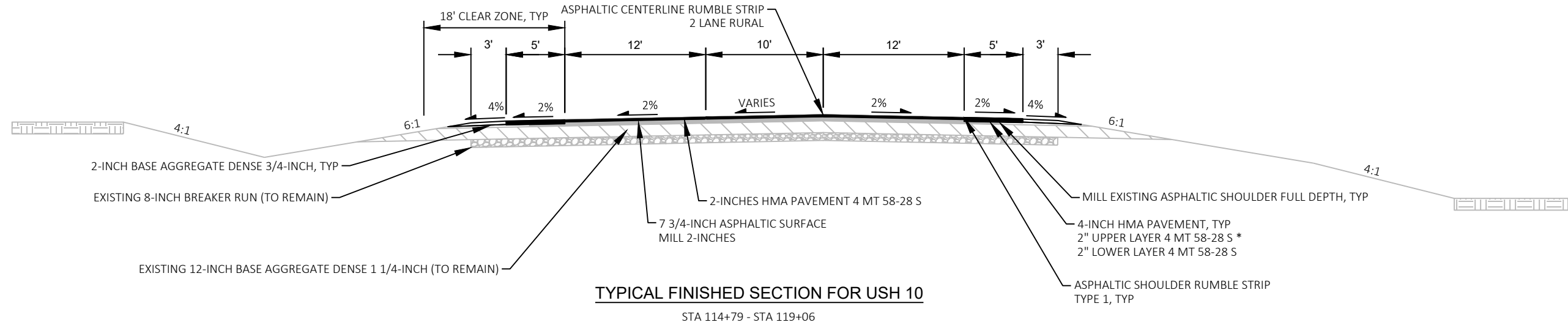
COUNTY: CALUMET

PLAN: TYPICAL SECTIONS

SHEET

4

E



* PAVE UPPER LAYER INTERGRALLY WITH TRAVEL LANE

PROJECT NO: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

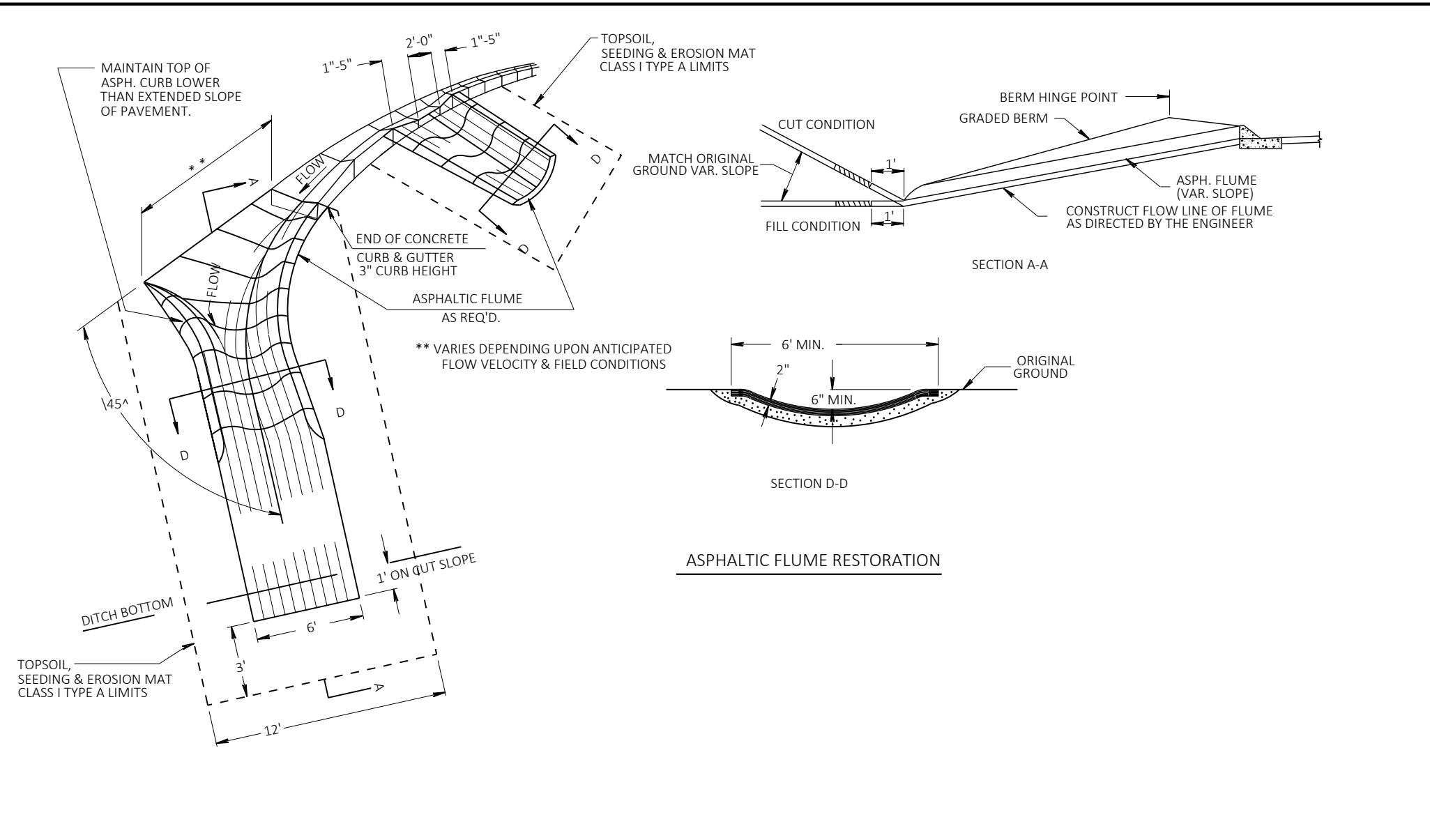
PLAN: TYPICAL SECTIONS

SHEET

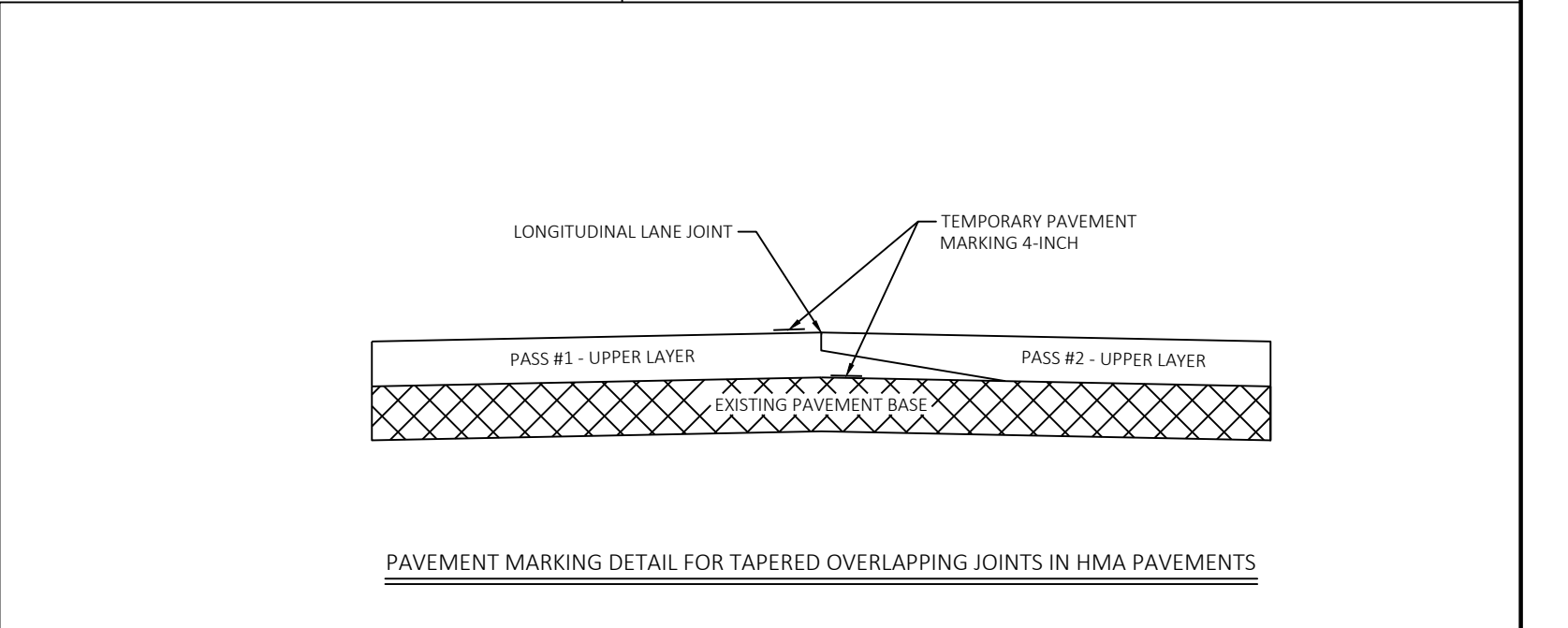
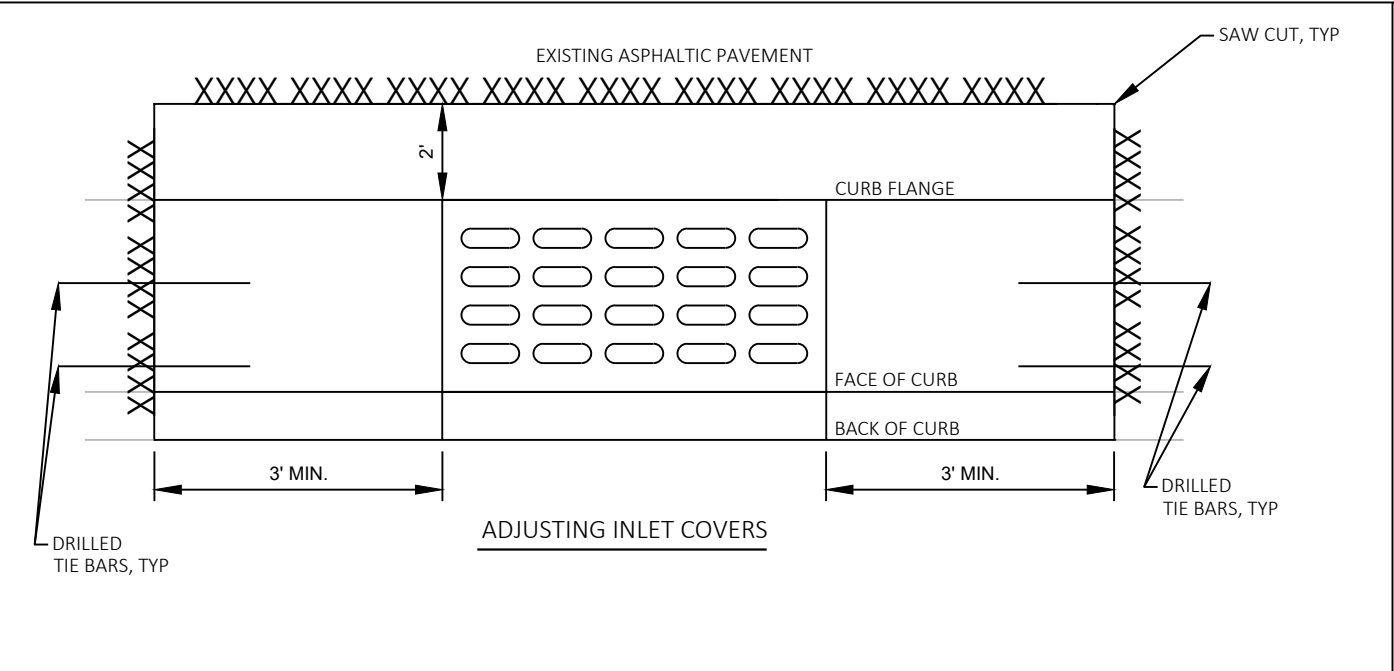
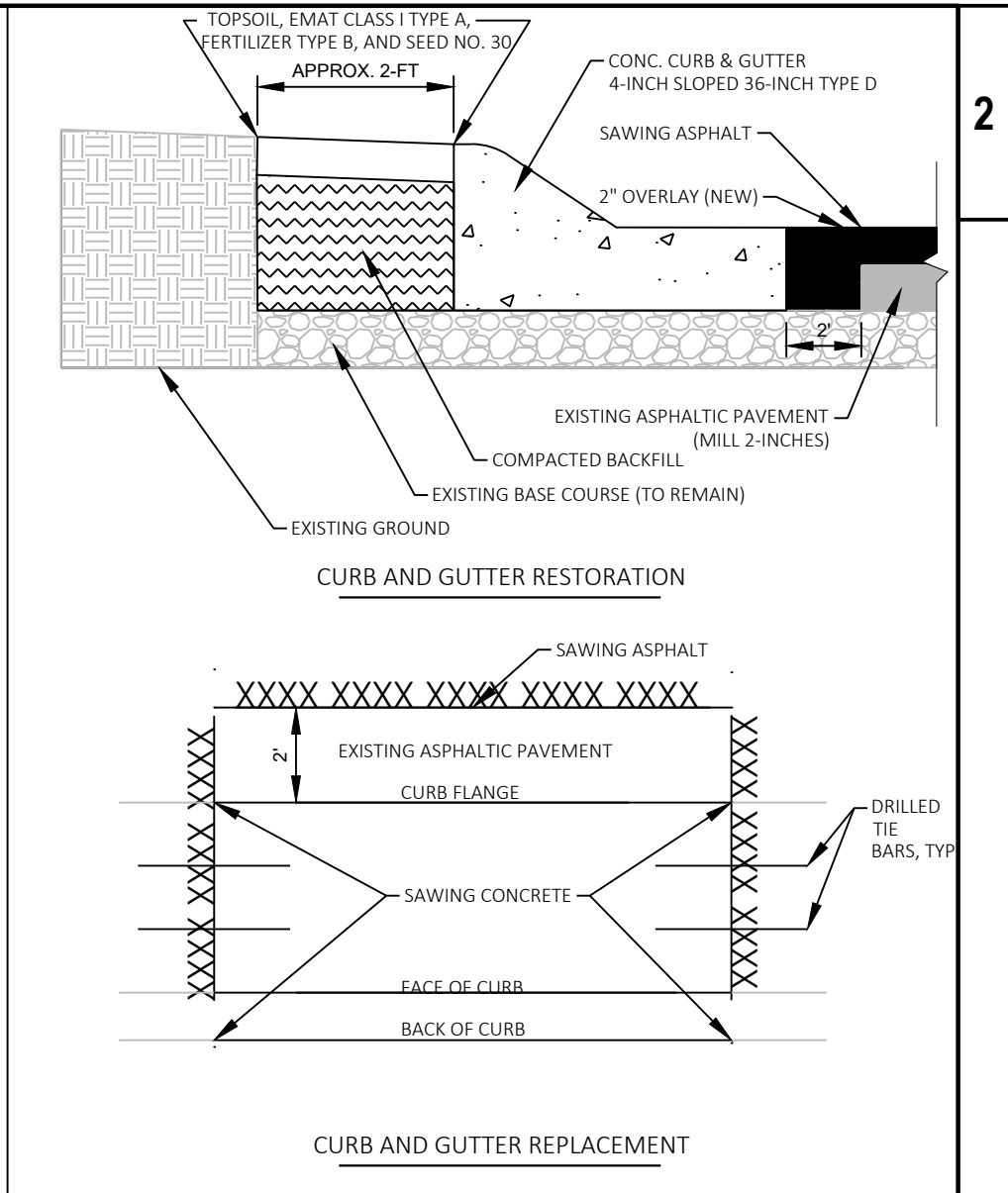
5

E

2



2



PROJECT NO:	1500-73-60
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HWY: USH 10

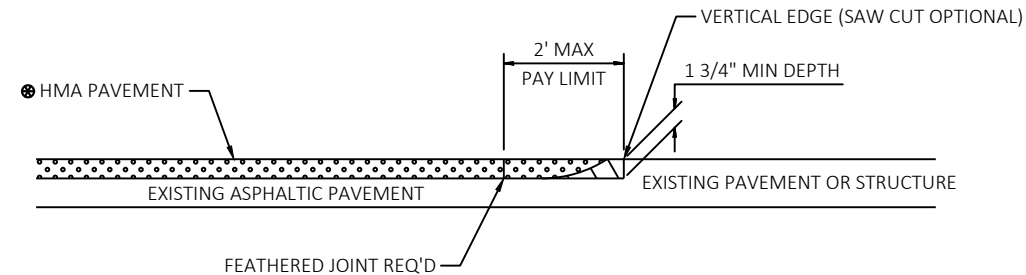
COUNTY: CALUMET

PLAN: CONSTRUCTION DETAIL

SHEET 6

E

WISDOT/CADDS SHEET 42

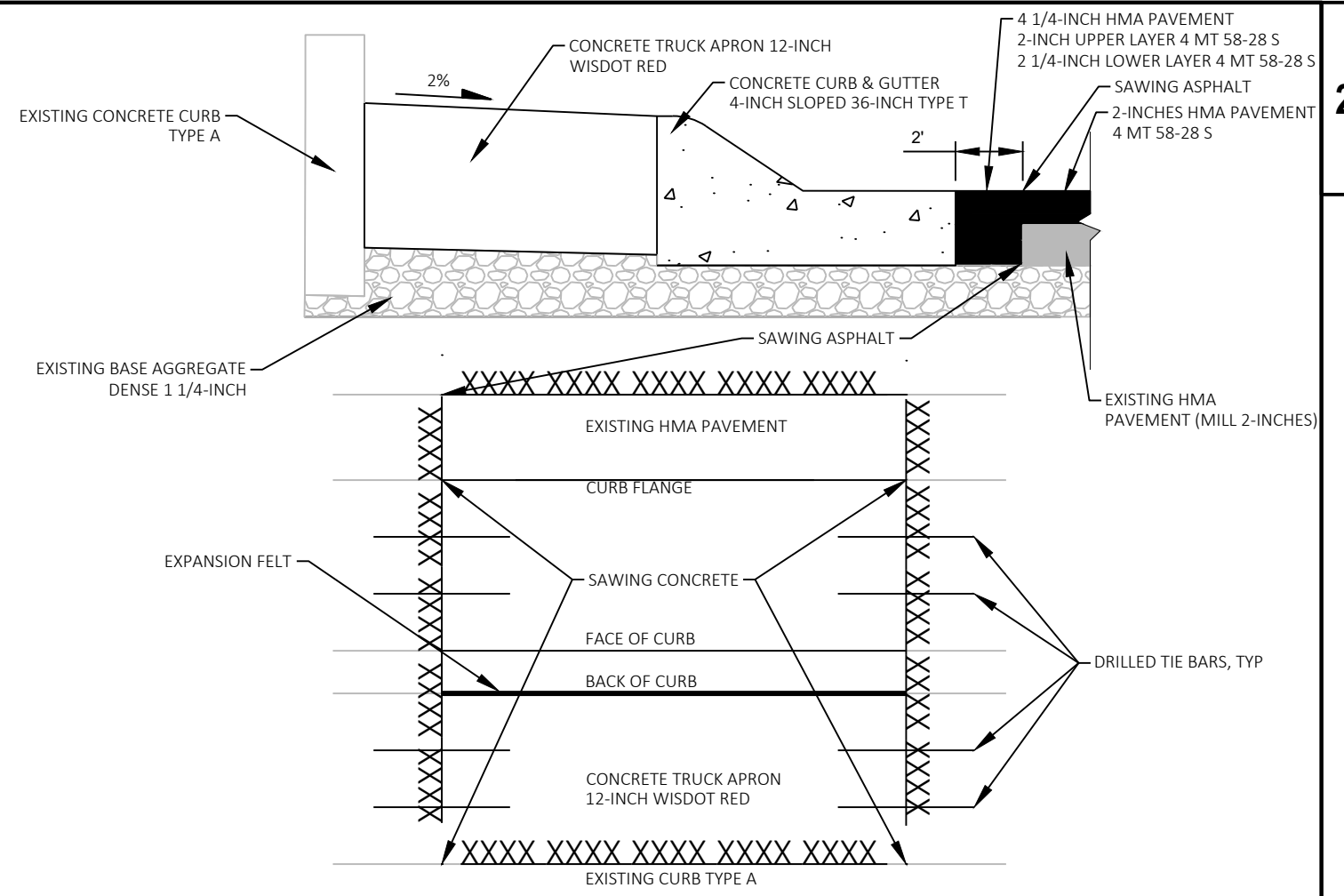


SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

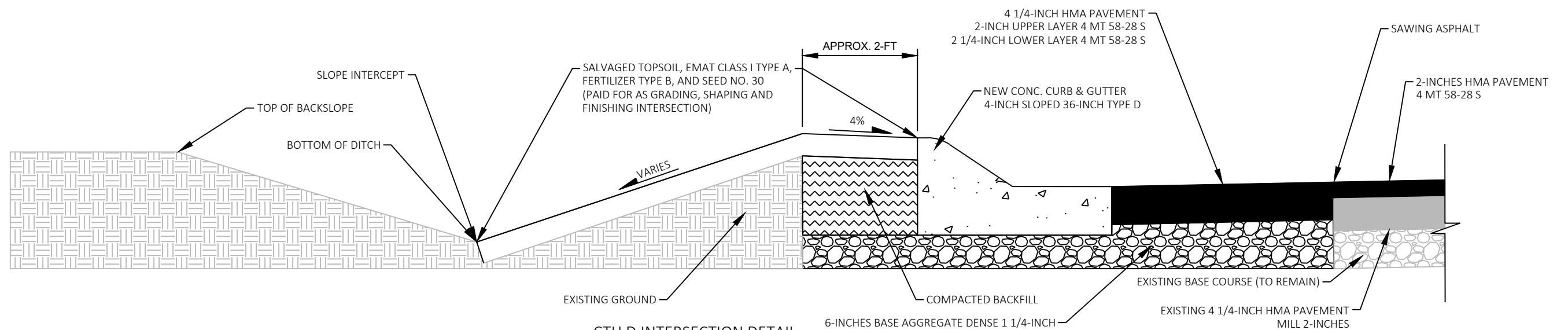
REMOVING ASPHALTIC SURFACE, MILLING

REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)



ROUND-A-BOUT DETAIL



CTH D INTERSECTION DETAIL

PROJECT NO: 1500-72-60

HWY: USH 10

COUNTY: CALUMET

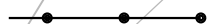
PLAN: CONSTRUCTION DETAIL

SHEET

7

E

LEGEND



SILT FENCE



SLOPE INTERCEPT



TEMPORARY DITCH CHECK



SURFACE WATER FLOW

EXISTING CMCP TO REMAIN

CTH D

14'

SAWING ASPHALT

866.501
Y = 544452.176
X = 888561.943866.074
Y = 544451.862
X = 888582.871866.140
Y = 544444.812
X = 888589.767866.260
Y = 544438.992
X = 888597.883866.379
Y = 544434.727
X = 888606.734

REMOVING CURB & GUTTER

866.628
Y = 544431.047
X = 888626.454866.904
Y = 544424.047
X = 888626.397

USH 10

38.23

PROJECT NO: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

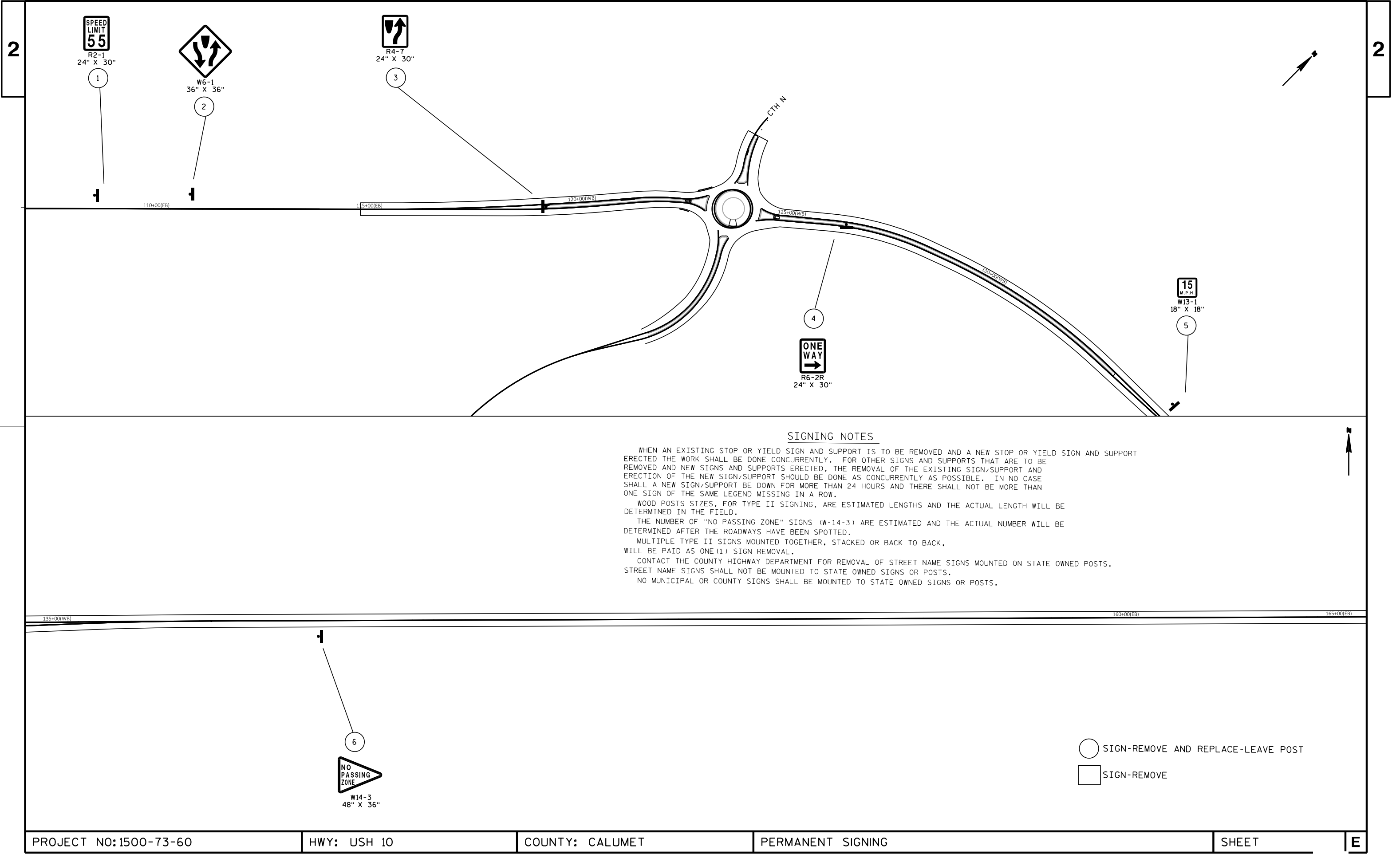
PLAN: PAVING DETAIL

SHEET

8

E

NOTE:SEE CTH D INTERSECTION
CONSTRUCTION DETAIL FOR
PAVEMENT SECTION



SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

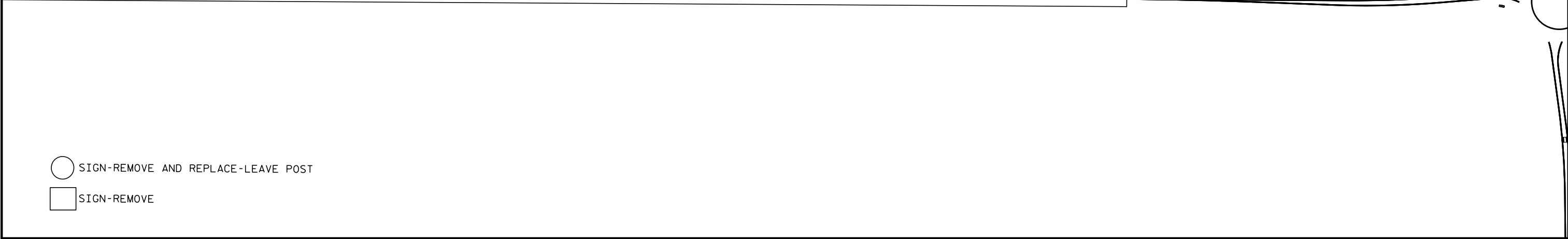
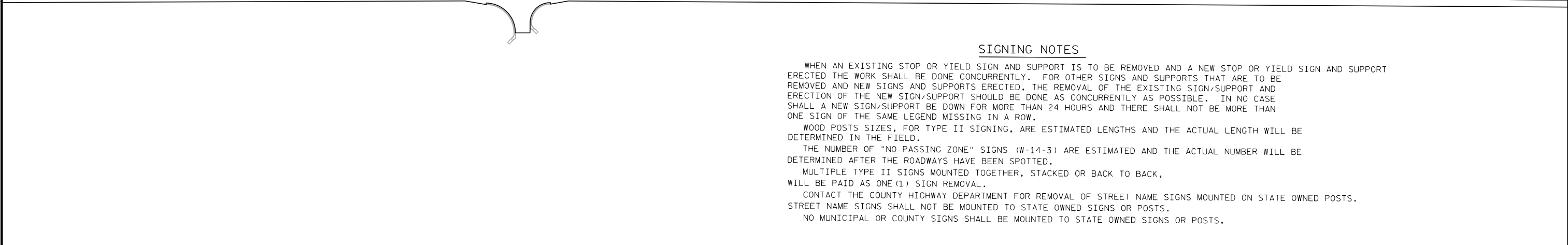
MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE (1) SIGN REMOVAL.

CONTACT THE COUNTY HIGHWAY DEPARTMENT FOR REMOVAL OF STREET NAME SIGNS MOUNTED ON STATE OWNED POSTS. STREET NAME SIGNS SHALL NOT BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

NO MUNICIPAL OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

2

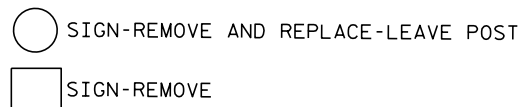
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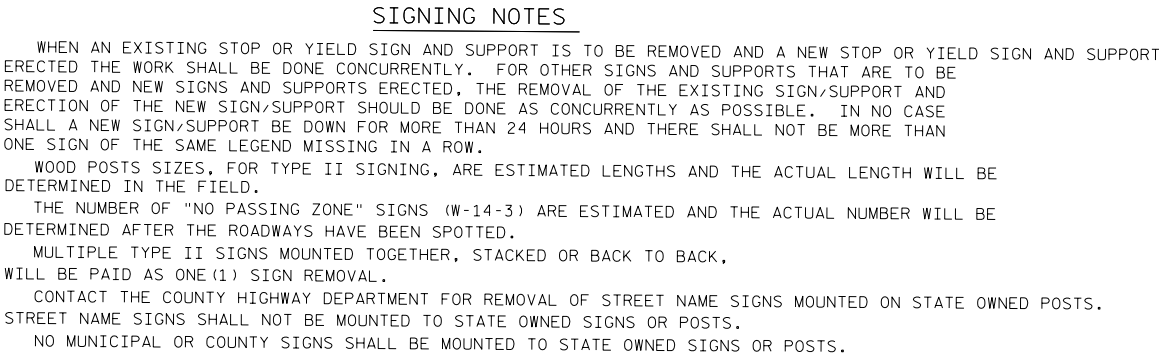


FILE NAME : N:\splot\traffic\SIGNING\Projects\1500-73-60 USH 10 CAL CO\15007360.SIGNPLAN.dgn	PLOT DATE : 21-FEB-2018 15:09	PLOT BY : dotets	PLOT NAME :	PLOT SCALE : 200:1	10	42
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2

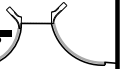
NO MUNICIPAL OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.





2

2



330+00(EB)

NO MUNICIPAL OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.



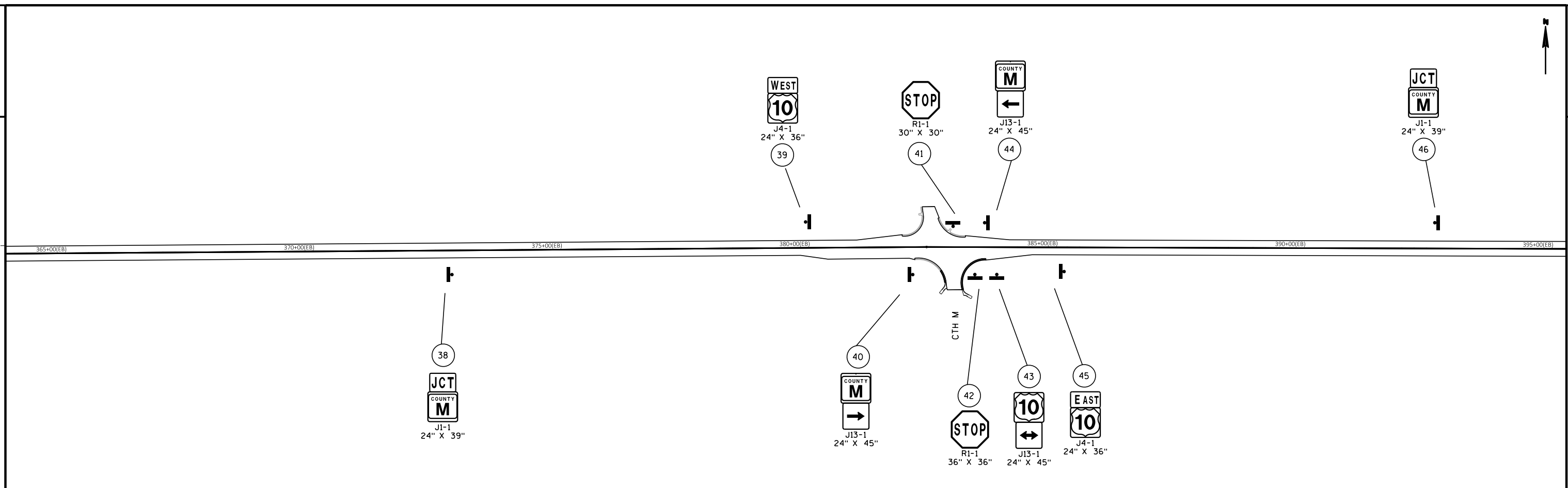
37



R1-1
" X 30"



☐ SIGN-REMOVE



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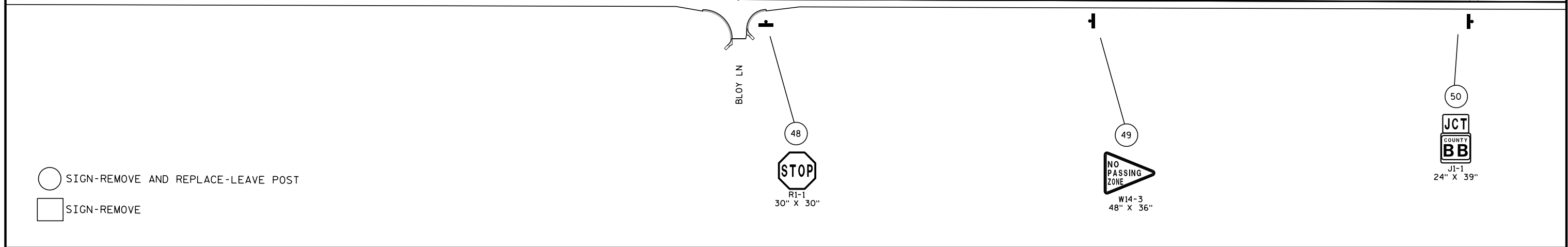


W14-3
48" X 36"

47

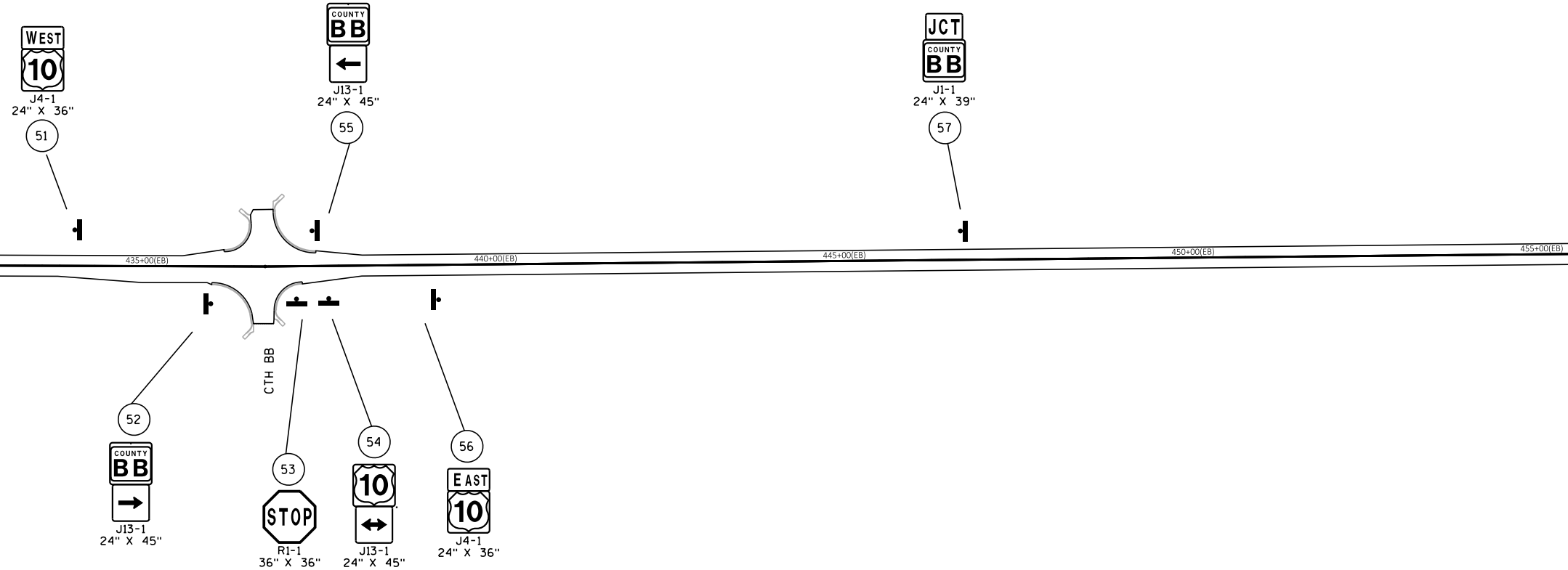


400+00(EB) 405+00(EB) 410+00(EB) 415+00(EB) 420+00(EB) 425+00(EB)



○ SIGN-REMOVE AND REPLACE-LEAVE POST

□ SIGN-REMOVE



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○ SIGN-REMOVE AND REPLACE-LEAVE POST

□ SIGN-REMOVE

2

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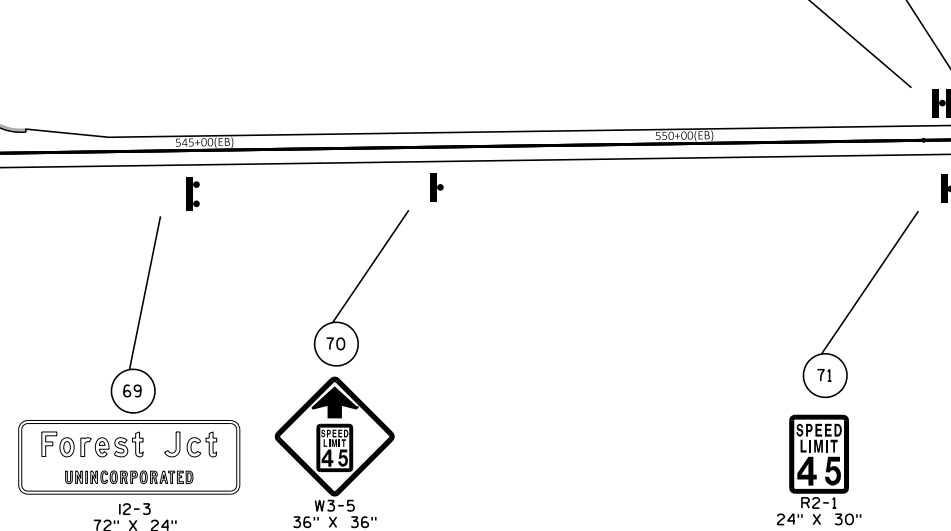
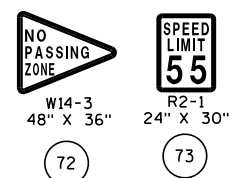
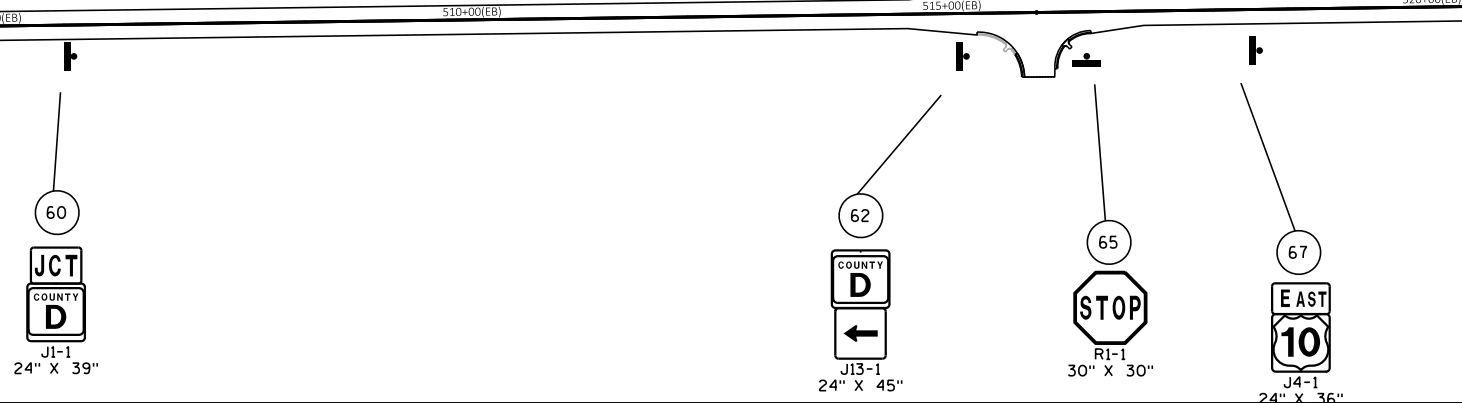
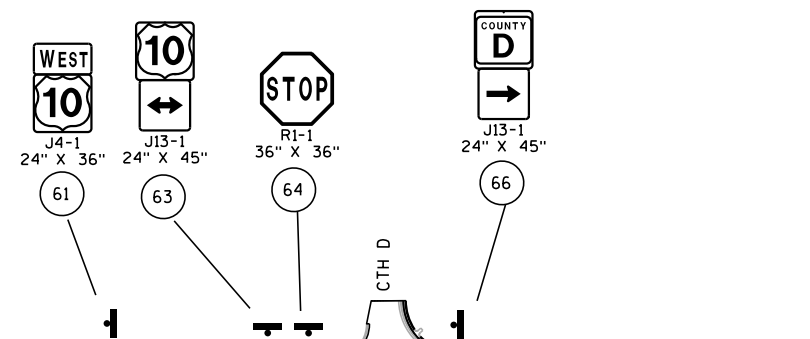
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☐ SIGN-REMOVE



PAVEMENT MARKING LEGEND	
A	CENTERLINE, 4-INCH EPOXY, SOLID, YELLOW
B	EDGE LINE, 4-INCH EPOXY, YELLOW
C	LANE LINE, 4-INCH EPOXY, WHITE
D	EDGE LINE, GROOVED WET REF. EPOXY 4-INCH, WHITE
E	CHANNELIZING LINE, 8-INCH EPOXY, WHITE
F	DIAGONAL, 12-INCH EPOXY, YELLOW
G	DIAGONAL, 12-INCH EPOXY, WHITE
H	YIELDLINE, 18-INCH EPOXY, WHITE, 2' SEG/2' GAP
I	MARKING ISLAND NOSE EPOXY (YELLOW)
J	CURB MARKING EPOXY, YELLOW



2

2



A	CENTERLINE, 4-INCH EPOXY, SOLID, YELLOW
B	EDGE LINE, 4-INCH EPOXY, YELLOW
C	LANE LINE, 4-INCH EPOXY, WHITE
D	EDGE LINE, GROOVED WET REF. EPOXY 4-INCH, WHITE
E	CHANNELIZING LINE, 8-INCH EPOXY, WHITE
F	DIAGONAL, 12-INCH EPOXY, YELLOW
G	DIAGONAL, 12-INCH EPOXY, WHITE
H	YIELDLINE, 18-INCH EPOXY, WHITE, 2' SEG/2' GAP
I	MARKING ISLAND NOSE EPOXY (YELLOW)
J	CURB MARKING EPOXY, YELLOW



MATCH LINE STA 232+00



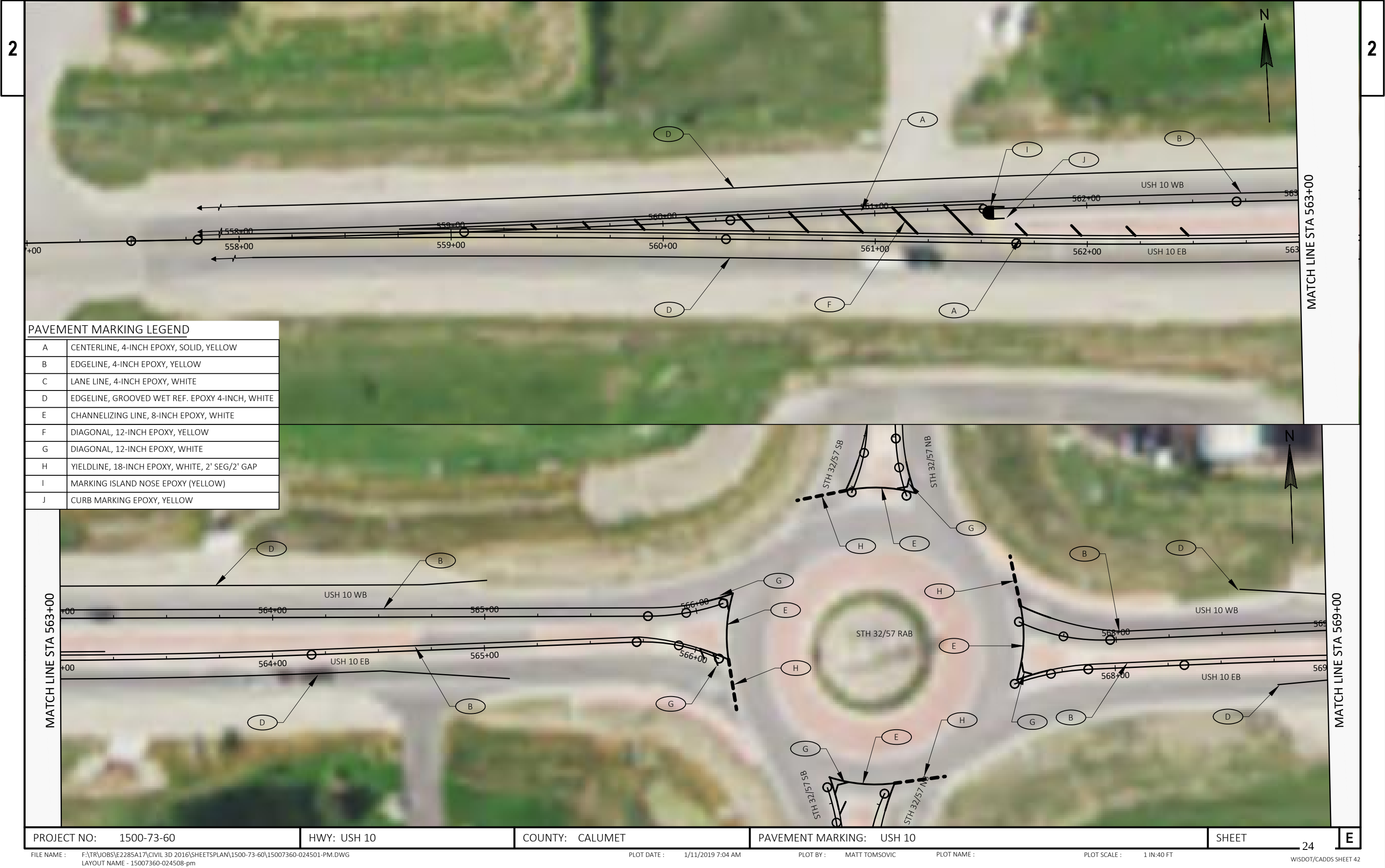
PAVEMENT MARKING LEGEND

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B	EDGE LINE, 4-INCH EPOXY, YELLOW
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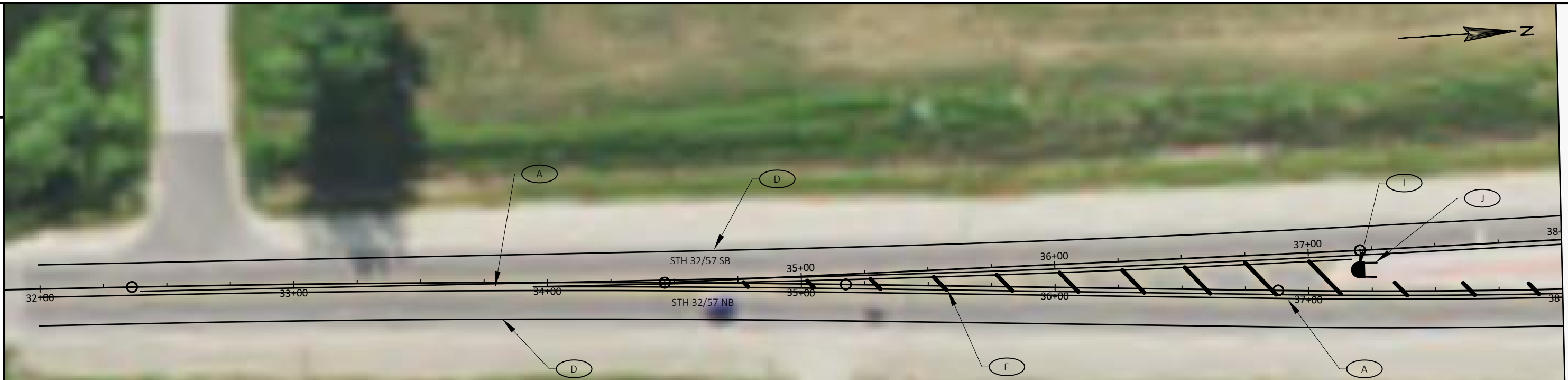


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I	MARKING ISLAND NOSE EPOXY (YELLOW)
J	CURB MARKING EPOXY, YELLOW

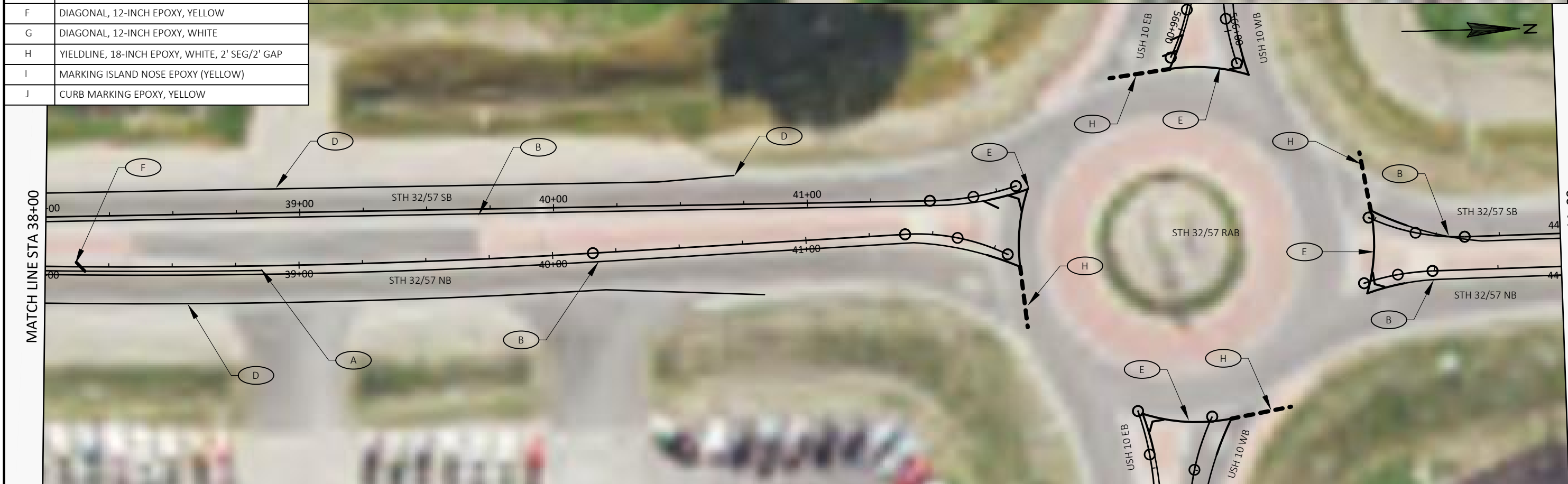




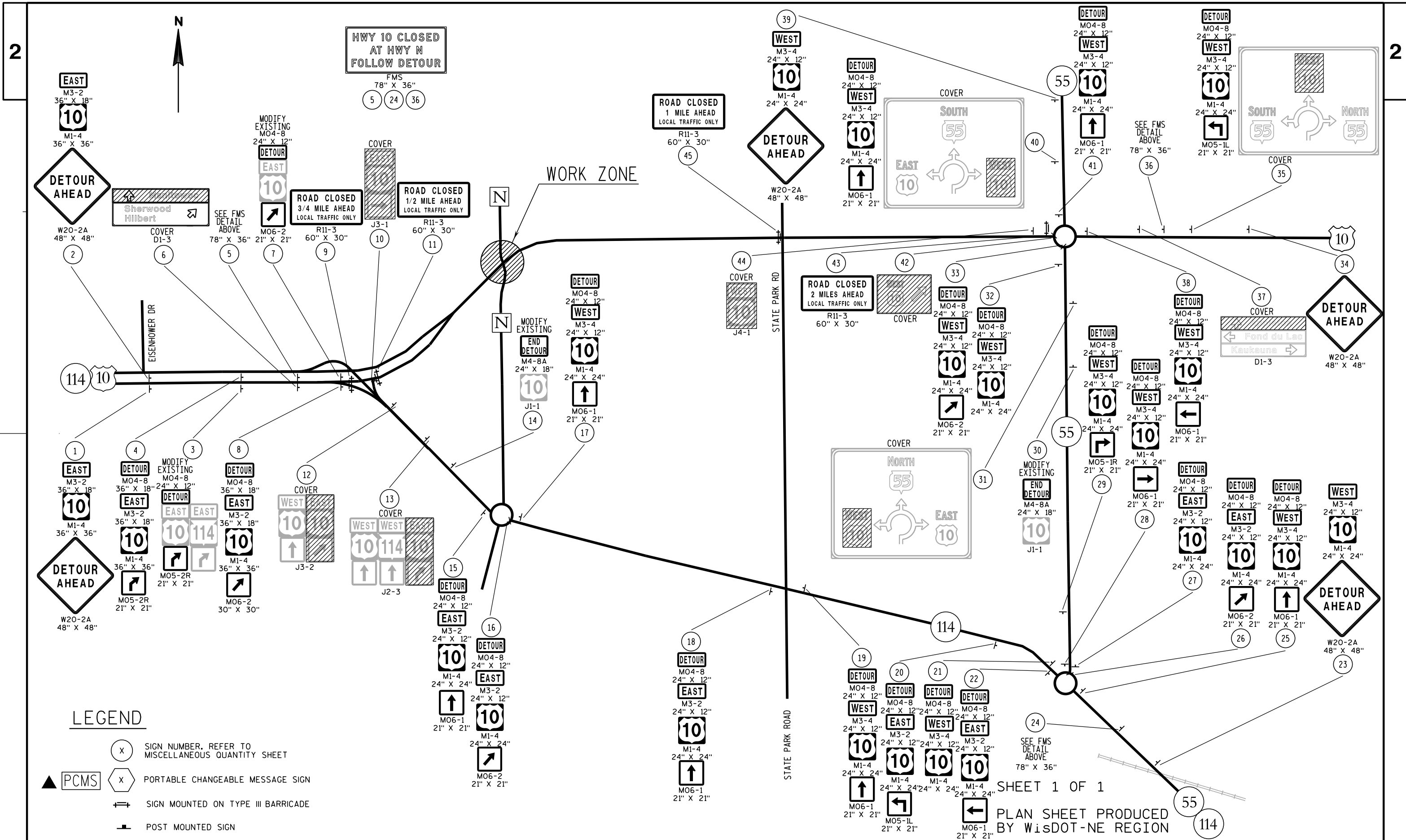


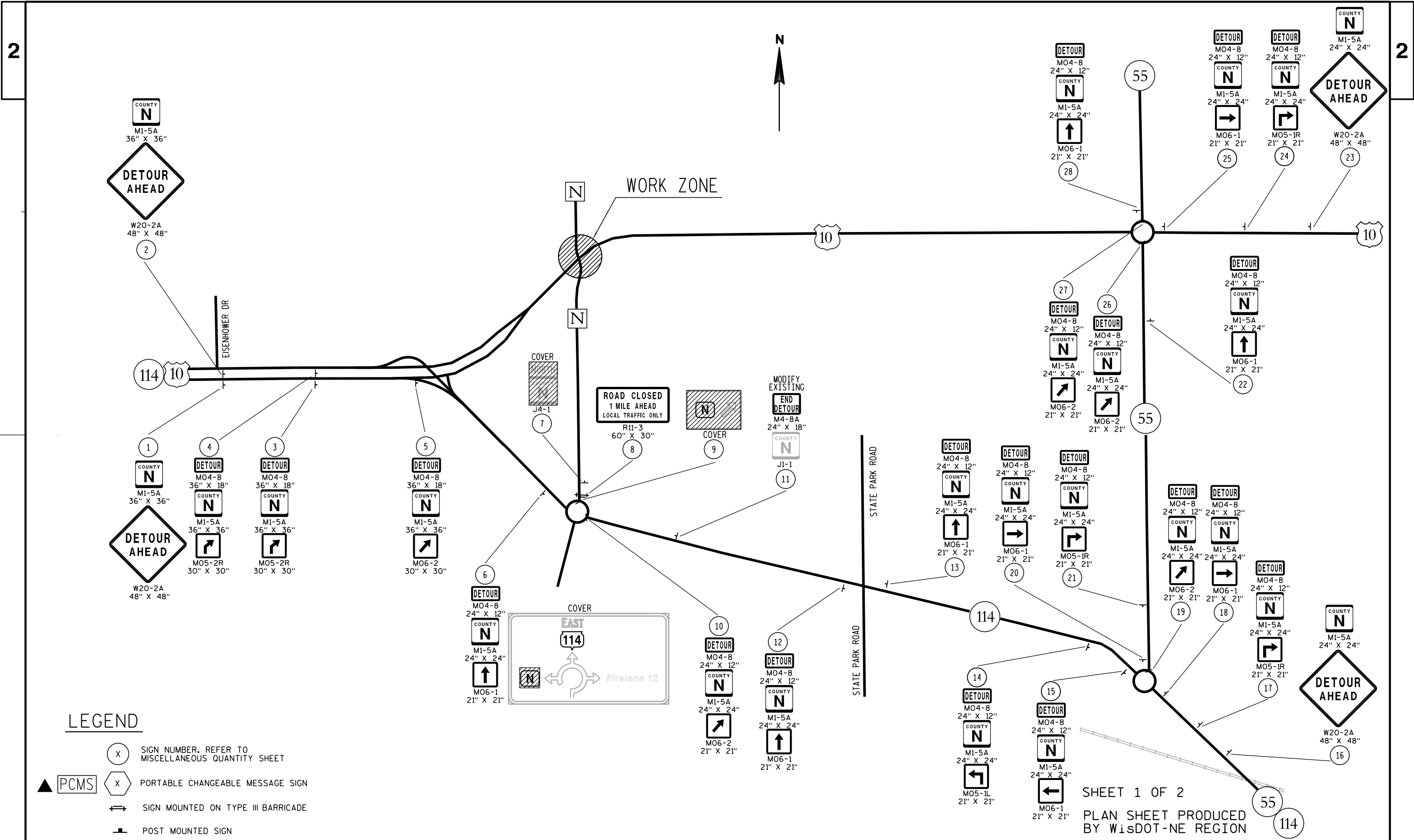


PAVEMENT MARKING LEGEND	
A	CENTERLINE, 4-INCH EPOXY, SOLID, YELLOW
B	EDGE LINE, 4-INCH EPOXY, YELLOW
C	LANE LINE, 4-INCH EPOXY, WHITE
D	EDGE LINE, GROOVED WET REF. EPOXY 4-INCH, WHITE
E	CHANNELIZING LINE, 8-INCH EPOXY, WHITE
F	DIAGONAL, 12-INCH EPOXY, YELLOW
G	DIAGONAL, 12-INCH EPOXY, WHITE
H	YIELDLINE, 18-INCH EPOXY, WHITE, 2' SEG/2' GAP
I	MARKING ISLAND NOSE EPOXY (YELLOW)
J	CURB MARKING EPOXY, YELLOW











- | | | |
|---|---|---|
|  |  | SIGN NUMBER. REFER TO
MISCELLANEOUS QUANTITY SHEET |
|  |  | PORTABLE CHANGEABLE MESSAGE SIGN |
|  | | SIGN MOUNTED ON TYPE III BARRICADE |
|  | | POST MOUNTED SIGN |

SHEET 2 OF 2

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

Estimate Of Quantities

1500-73-60					
Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Pavement	SY	30.000	30.000
0004	204.0110	Removing Asphaltic Surface	SY	103.000	103.000
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	153.000	153.000
0008	204.0120	Removing Asphaltic Surface Milling	SY	152,790.000	152,790.000
0010	204.0150	Removing Curb & Gutter	LF	465.000	465.000
0012	204.0155	Removing Concrete Sidewalk	SY	160.000	160.000
0014	205.9015.S	Grading Shaping and Finishing Intersection (location) 01. CTH D	LS	1.000	1.000
0016	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 1500-73-60	LS	1.000	1.000
0018	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	862.000	862.000
0020	213.0100	Finishing Roadway (project) 01. 1500-73-60	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,400.000	3,400.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	70.000	70.000
0026	305.0504.S	Hauling Excess Shoulder Material	CY	150.000	150.000
0028	405.0100	Coloring Concrete WisDOT Red	CY	10.000	10.000
0030	405.1000	Stamping Colored Concrete	CY	0.500	0.500
0032	416.0512	Concrete Truck Apron 12-Inch	SY	30.000	30.000
0034	416.0610	Drilled Tie Bars	EACH	35.000	35.000
0036	455.0605	Tack Coat	GAL	11,590.000	11,590.000
0038	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0040	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000
0042	460.2005	Incentive Density PWL HMA Pavement	DOL	13,230.000	13,230.000
0044	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	31,540.000	31,540.000
0046	460.2010	Incentive Air Voids HMA Pavement	DOL	24,360.000	24,360.000
0048	460.6224	HMA Pavement 4 MT 58-28 S	TON	24,360.000	24,360.000
0050	465.0110	Asphaltic Surface Patching	TON	500.000	500.000
0052	465.0315	Asphaltic Flumes	SY	172.000	172.000
0054	465.0400	Asphaltic Shoulder Rumble Strips	LF	84,584.000	84,584.000
0056	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	36,512.000	36,512.000
0058	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	24.000	24.000
0060	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	421.000	421.000
0062	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	20.000	20.000
0064	602.0405	Concrete Sidewalk 4-Inch	SF	160.000	160.000
0066	611.8115	Adjusting Inlet Covers	EACH	9.000	9.000
0068	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1500-73-60	EACH	1.000	1.000
0070	619.1000	Mobilization	EACH	1.000	1.000
0072	624.0100	Water	MGAL	20.000	20.000
0074	625.0100	Topsoil	SY	181.000	181.000

Estimate Of Quantities

1500-73-60

Line	Item	Item Description	Unit	Total	Qty
0076	628.1504	Silt Fence	LF	20.000	20.000
0078	628.1520	Silt Fence Maintenance	LF	20.000	20.000
0080	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0082	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0084	628.2002	Erosion Mat Class I Type A	SY	181.000	181.000
0086	628.7504	Temporary Ditch Checks	LF	20.000	20.000
0088	629.0210	Fertilizer Type B	CWT	0.230	0.230
0090	630.0130	Seeding Mixture No. 30	LB	4.890	4.890
0092	633.5200	Markers Culvert End	EACH	4.000	4.000
0094	637.2210	Signs Type II Reflective H	SF	364.250	364.250
0096	637.2230	Signs Type II Reflective F	SF	70.610	70.610
0098	638.2602	Removing Signs Type II	EACH	61.000	61.000
0100	642.5001	Field Office Type B	EACH	1.000	1.000
0102	643.0300	Traffic Control Drums	DAY	700.000	700.000
0104	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0106	643.0420	Traffic Control Barricades Type III	DAY	108.000	108.000
0108	643.0705	Traffic Control Warning Lights Type A	DAY	216.000	216.000
0110	643.0900	Traffic Control Signs	DAY	6,372.000	6,372.000
0112	643.0910	Traffic Control Covering Signs Type I	EACH	1.000	1.000
0114	643.0920	Traffic Control Covering Signs Type II	EACH	23.000	23.000
0116	643.1000	Traffic Control Signs Fixed Message	SF	118.000	118.000
0118	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0120	643.5000	Traffic Control	EACH	1.000	1.000
0122	646.1020	Marking Line Epoxy 4-Inch	LF	43,855.000	43,855.000
0124	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	100,358.000	100,358.000
0126	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	1,510.000	1,510.000
0128	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	51,566.000	51,566.000
0130	646.5020	Marking Arrow Epoxy	EACH	3.000	3.000
0132	646.5120	Marking Word Epoxy	EACH	7.000	7.000
0134	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	190.000	190.000
0136	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,220.000	1,220.000
0138	646.8120	Marking Curb Epoxy	LF	120.000	120.000
0140	646.8220	Marking Island Nose Epoxy	EACH	12.000	12.000
0142	648.0100	Locating No-Passing Zones	MI	9.820	9.820
0144	649.0105	Temporary Marking Line Paint 4-Inch	LF	51,849.000	51,849.000
0146	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	215.000	215.000
0148	650.8000	Construction Staking Resurfacing Reference	LF	42,719.000	42,719.000
0150	690.0150	Sawing Asphalt	LF	1,139.000	1,139.000
0152	690.0250	Sawing Concrete	LF	209.000	209.000
0154	740.0440	Incentive IRI Ride	DOL	64,272.000	64,272.000

Estimate Of Quantities

1500-73-60					
Line	Item	Item Description	Unit	Total	Qty
0156	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0158	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0160	SPV.0060	Special 03. Adjusting Inlet Covers Special	EACH	1.000	1.000

GRADING, SHAPING & FINISHING INTERSECTION CTH D

	205.9015.S GRADING, SHAPING & FINISHNG INTERSECTION	* EXCAVATION COMMON	* TOPSOIL	* FERTILIZER TYPE B	* SEEDING MIXTURE NO. 30	* EROSION MAT CLASS I TYPE A
LOCATION	LS	CY	SY	CWT	LB	SY
PROJECT 1500-73-60						
CTH D	1	60	112	0.1	3	112
PROJECT TOTALS	1	60	112	0.1	3	112

* QUANTITIES ARE FOR INFORMATION ONLY

BASE COURSE

		305.0110	305.0120	305.0504.S	624.0100	
		BASE AGGREGATE DENSE 3/4-INCH	BASE AGGREGATE DENSE 1 1/4-INCH	HAULING EXCESS SHOULDER MATERIAL	WATER	REMARKS
STATION TO STATION	LOCATION	TON	TON	CY	MGAL	
PROJECT 1500-73-60						
114+79 - 122+93	USH 10	60	---	---	0.4	
124+23 - 129+00	USH 10	40	---	---	0.2	
129+00 - 144+00	USH 10	120	---	---	0.7	
144+00 - 159+00	USH 10	120	---	---	0.7	
159+00 - 174+00	USH 10	120	---	---	0.7	
174+00 - 189+00	USH 10	120	---	---	0.7	
189+00 - 204+00	USH 10	120	---	---	0.7	
204+00 - 219+79	USH 10	120	---	---	0.7	
238+27 - 249+00	USH 10	80	---	---	0.5	
249+00 - 264+00	USH 10	120	---	---	0.7	
264+00 - 279+00	USH 10	120	---	---	0.7	
279+00 - 294+00	USH 10	120	---	---	0.7	
294+00 - 309+00	USH 10	120	---	---	0.7	
309+00 - 324+00	USH 10	120	---	---	0.7	
324+00 - 339+00	USH 10	120	---	---	0.7	
339+00 - 354+00	USH 10	120	---	---	0.7	
354+00 - 369+00	USH 10	120	---	---	0.7	
369+00 - 384+00	USH 10	120	---	---	0.7	
384+00 - 399+00	USH 10	120	---	---	0.7	
399+00 - 414+00	USH 10	120	---	---	0.7	
414+00 - 429+00	USH 10	120	---	---	0.7	
429+00 - 444+00	USH 10	120	---	---	0.7	
444+00 - 459+00	USH 10	120	---	---	0.7	
459+00 - 474+00	USH 10	120	---	---	0.7	
474+00 - 489+00	USH 10	120	---	---	0.7	
489+00 - 504+00	USH 10	120	---	---	0.7	
504+00 - 519+00	USH 10	120	70	---	0.7	1 1/4-INCH USED AT CTH D INTERSECTION
519+00 - 534+00	USH 10	120	---	---	0.7	
534+00 - 549+00	USH 10	120	---	---	0.7	
549+00 - 557+49	USH 10	70	---	---	0.4	
15+58 - 18+79	CTH N	20	---	---	0.1	
20+27 - 21+33	CTH N	10	---	---	0.1	
UNDISTRIBUTED	USH 10	---	---	150	---	
PROJECT TOTALS		3,400	70	150	20	

CONCRETE TRUCK APRON

			204.0100	405.0100	416.0512	690.0250 *
			REMOVING PAVEMENT	COLORING CONCRETE WISDOT RED	CONCRETE TRUCK APRON 12-INCH	SAWING CONCRETE
STATION TO STATION	DIR	LOCATION	SY	CY	SY	LF
PROJECT 1500-73-60						
123+54 - 123+74	R/L	CTH N RAB	30	10	30	30
PROJECT TOTALS			30	10	30	30

* ADDITION QUANTITIY SHOWN IN CURB & GUTTER, SIDEWALK TABLES

CONCRETE SIDEWALK

			204.0155	405.1000	602.0405	690.0250 *
			REMOVING CONCRETE SIDEWALK	STAMPING COLORED CONCRETE	CONCRETE SIDEWALK 4-INCH	SAWING CONCRETE
STATION TO STATION	DIR	LOCATION		CY	SF	LF
PROJECT 1500-73-60						
122+42 - 122+55	R/L	USH 10	80	0.25	80	40
124+55 - 124+70	R/L	USH 10	80	0.25	80	40
PROJECT TOTALS				0.5	160	80

* ADDITIONAL QUANTITY SHOWN IN CURB & GUTTER AND TRUCK APRON TABLE

ASPHALTIC ITEMS

STATION	TO	STATION	LOCATION	204.0115	204.0120	211.0100***	211.0400	455.0605	HMA			465.0110	465.0315	465.0400	465.0475
				REMOVING ASPHALTIC SURFACE BUTT JOINTS	REMOVING ASPHALTIC SURFACE MILLING	PREPARE FOUNDATION FOR ASPHALTIC PAVING	PREPARE FOUNDATION FOR ASPHALTIC SHOULDER	TACK COAT	PAVEMENT 4 MT 58-28 S			ASPHALTIC SURFACE PATCHING	ASPHALTIC FLUMES	ASPHALTIC SHOULDER RUMBLE STRIPS TYPE 1	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
				SY	SY	STA	STA	GAL	460.6224	DENSITY INCENTIVE	PWL AIR VOIDS	TON	SY	LF	LF
114+79	-	122+93	USH 10	7	2,860	8	18	220	460	250	460	---	---	1,628	---
124+23	-	129+00	USH 10	---	1,620	5	10	130	270	150	270	---	---	954	---
129+00	-	144+00	USH 10	---	5,190	15	30	400	840	460	840	---	---	3,000	635
144+00	-	159+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
159+00	-	174+00	USH 10	---	5,080	15	30	400	840	460	840	---	---	3,000	1,500
174+00	-	189+00	USH 10	13	6,130	15	30	430	900	460	900	---	37	3,000	1,100
189+00	-	204+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
204+00	-	219+79	USH 10	7	5,260	16	32	420	890	480	890	---	---	3,158	1,577
238+27	-	249+00	USH 10	7	3,570	11	22	280	600	330	600	---	---	2,146	1,070
249+00	-	264+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
264+00	-	279+00	USH 10	---	5,280	15	30	400	840	460	840	---	---	3,000	1,310
279+00	-	294+00	USH 10	13	5,590	15	30	400	840	460	840	---	---	3,000	1,290
294+00	-	309+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
309+00	-	324+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
324+00	-	339+00	USH 10	13	5,880	15	30	410	870	460	870	---	26	3,000	1,100
339+00	-	354+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
354+00	-	369+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
369+00	-	384+00	USH 10	13	6,120	15	30	430	900	460	900	---	11	3,000	1,185
384+00	-	399+00	USH 10	---	5,190	15	30	400	840	460	840	---	---	3,000	1,395
399+00	-	414+00	USH 10	7	5,450	15	30	400	840	460	840	---	---	3,000	1,100
414+00	-	429+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
429+00	-	444+00	USH 10	13	6,100	15	30	430	890	460	890	---	51	3,000	1,100
444+00	-	459+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
459+00	-	474+00	USH 10	---	5,000	15	30	400	840	460	840	---	---	3,000	1,500
474+00	-	489+00	USH 10	---	5,090	15	30	400	840	460	840	---	---	3,000	1,345
489+00	-	504+00	USH 10	13	5,780	15	30	400	860	460	860	---	13	3,000	1,255
504+00	-	519+00	USH 10	13	6,200	15	30	430	900	460	900	---	17	3,000	1,100
519+00	-	534+00	USH 10	---	5,040	15	30	400	840	460	840	---	---	3,000	1,500
534+00	-	549+00	USH 10	7	5,440	15	30	400	840	460	840	---	18	3,000	1,100
549+00	-	557+49	USH 10	7	3,090	8	18	220	480	260	480	---	---	1,698	850
15+58	-	18+79	CTH N	8	1,180	3	8	80	180	100	180	---	---	---	---
USH 10/CTH N RAB			CTH N	---	1,150	---	---	80	130	130	130	---	---	---	---
20+27	-	21+33	CTH N	12	500	1	4	30	70	30	70	---	---	---	---
UNDISTRIBUTED				---	---	---	---	---	---	---	---	500	---	---	---
PROJECT TOTAL				153	152,790	427	862	11,590	24,360	13,230	24,360	500	172	84,584	36,512

* Tonnage is eligible for Incentive Density PWL 460.2005 and Incentive Air Voids 460.2010.

** Tonage is eligible for Incentive Air Voids 460.2010 and density is tested for acceptance in those areas.

*** For information only, Item 211.0100 Prepare Foundation for Asphaltic Pavement paid as Lump Sum.

CONCRETE CURB AND GUTTER

STATION TO STATION	DIR	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0150 REMOVING CURB & GUTTER LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF	650.0550 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF
PROJECT 1500-73-60										
119+11 - 119+17	LT	USH 10 EB	1	6	---	6	---	---	10	6
119+11 - 119+23	RT	USH 10 WB	3	12	---	12	---	---	16	6
120+90 - 121+24	RT	USH 10 WB	7	33	---	33	---	---	37	6
122+30 - 122+55	RT	USH 10 EB	5	22	---	22	---	---	26	6
122+76 - 123+02	LT	USH 10 WB	7	33	---	33	---	---	37	6
227+26 - 227+40	RT	USH 10 EB	2	10	---	10	---	---	14	6
232+02 - 232+12	RT	USH 10 WB	2	10	---	10	---	---	14	6
382+95 - 383+04	RT	CTH M	6	25	---	25	---	---	29	6
383+38 - 383+85	RT	CTH M	20	90	---	90	---	90	94	6
488+90 - 489+15	LT	HARVESTORE RD.	7	30	---	30	---	---	34	6
515+65 - 515+75	RT	CTH D	6	25	---	25	---	---	29	6
516+05 - 516+45	RT	CTH D	11	50	---	50	---	50	54	6
516+08 - 516+65	LT	CTH D	17	75	---	75	---	75	130	6
15+64 - 15+70	LT	CTH N NB	1	6	6	---	---	---	10	5
15+64 - 15+70	RT	CTH N SB	1	6	6	---	---	---	10	5
CTH N RAB	R/L	CTH N RAB	4	20	---	---	20	---	24	6
20+83 - 20+95	RT	CTH N SB	3	12	12	---	---	---	16	5
PROJECT TOTALS			103	465	24	421	20	215	584	99

* ADDITIONAL QUANTITIY SHOWN IN SIDEWALK AND TRUCK ARPON AND SAW CUTTING TABLE

MARKERS CULVERT ENDS

STATION	DIR	LOCATION	633.5200 MARKERS CULVERT ENDS EACH
PROJECT 1500-73-60			
189+00	RT	USH 10	1
287+75	LT	USH 10	1
385+50	LT	USH 10	1
386+75	RT	USH 10	1

PROJECT TOTALS 4

DRILLED TIE BARS

STATION TO STATION	LOCATION	416.0610 DRILLED TIE BARS EACH
PROJECT 1500-73-60		
114+79 - 557+49	USH 10	30
UNDISTRIBUTED		5

PROJECT TOTALS 35

ASPHALTIC FLUME RESTORATION

STATION TO STATION	LOCATION	625.0100 * TOPSOIL SY	629.0210 * FERTILIZER TYPE B CWT	630.0130 * SEEDING MIXTURE NO. 30 LB	628.2002 * EROSION MAT CLASS I TYPE A SY
PROJECT 1500-73-60					
174+00 - 189+00	USH 10	18	0.01	0.48	18
324+00 - 339+00	USH 10	11	0.01	0.30	11
429+00 - 444+00	USH 10	22	0.01	0.60	22
489+00 - 504+00	USH 10	3	0.01	0.09	3
504+00 - 519+00	USH 10	17	0.01	0.45	17
534+00 - 549+00	USH 10	7	0.01	0.18	7

PROJECT TOTALS 78 0.06 2.10 78

* ADDITIONAL QUANTITITES SHOWN ON CURB & GUTTER RESTORATION TABLE

CURB & GUTTER RESTORATION

STATION TO STATION	DIR	LOCATION	625.0100 * TOPSOIL SY	629.0210 * FERTILIZER TYPE B CWT	630.0130 * SEEDING MIXTURE NO. 30 LB	628.2002 * EROSION MAT CLASS I TYPE A SY
PROJECT 1500-73-60						
119+11 - 119+17	LT	USH 10 EB	1	0.01	0.04	1
119+11 - 119+23	RT	USH 10 WB	3	0.01	0.07	3
120+90 - 121+24	RT	USH 10 WB	7	0.01	0.20	7
122+30 - 122+55	RT	USH 10 EB	5	0.01	0.13	5
122+76 - 123+02	LT	USH 10 WB	7	0.01	0.20	7
227+26 - 227+40	RT	USH 10 EB	2	0.01	0.06	2
232+02 - 232+12	RT	USH 10 WB	2	0.01	0.06	2
382+95 - 383+04	RT	CTH M	6	0.01	0.15	6
383+38 - 383+85	RT	CTH M	20	0.01	0.54	20
488+90 - 489+15	LT	HARVESTORE RD.	7	0.01	0.18	7
515+65 - 515+75	RT	CTH D	6	0.01	0.15	6
516+05 - 516+45	RT	CTH D	11	0.01	0.30	11
516+08 - 516+65	LT	CTH D	17	0.01	0.45	17
15+64 - 15+70	LT	CTH N NB	1	0.01	0.04	1
15+64 - 15+70	RT	CTH N SB	1	0.01	0.04	1
-	R/L	CTH N RAB	4	0.01	0.12	4
20+83 - 20+95	RT	CTH N SB	3	0.01	0.07	3

PROJECT TOTALS 103 0.17 2.79 103

ADDITIONAL QUANTITIES SHOWN ON ASPHALTIC FLUME RESTORATION TABLE

ADJUSTING INLET COVERS

			611.8115	SPV.0060.03
			ADJUSTING	ADJUSTING INLET
			INLET COVERS	COVERS SPECIAL
STATION	DIR	LOCATION	EACH	EACH
PROJECT 1500-73-60				
119+10	LT	USH 10 EB	1	--
119+10	RT	USH 10 WB	1	--
121+08	RT	USH 10 WB	1	--
122+94	LT	USH 10 WB	1	--
15+67	LT	CTH N NB	1	--
15+67	RT	CTH N SB	1	--
	R/L	CTH N RAB	1	1
227+33	RT	USH 10 EB	1	--
232+08	LT	USH 10 WB	1	--
PROJECT TOTALS			9	1

EROSION CONTROL ITEMS

	628.1504	628.1520	628.1905	628.1910	628.7504
		SILT	MOB.	MOB.	TEMP.
	FENCE	FENCE	EROSION	EROSION	DITCH
	LF	MAINT	CONTROL	CONTROL	CHECKS
LOCATION	LF	LF	EA	EA	LF
PROJECT 1500-73-60					
USH 10/CTH D	15	15	---	---	10
UNDISTRIBUTED	5	5	1	1	10
PROJECT TOTALS	20	20	1	1	20

PAVEMENT MARKING

			646.1040	646.1020	646.3040	646.4520	646.5020	646.5120	646.7120		646.8120	646.8220	646.6220	648.0100	649.0105
			MARKING LINE	MARKING	MARKING LINE	MARKING	MARKING	MARKING	MARKING DIAGONAL		MARKING	MARKING	MARKING	LOCATING	TEMPORARY
			GROOVED WET	LINE	GROOVED WET	LINE SAME	ARROW	WORDS	EPOXY 12-INCH		CURB	ISLAND	YIELD LINE	NO-PASSING	MARKING
			REF EPOXY 4-	EPOXY 4-	REFLECTIVE	DAY EPOXY 4-	EPOXY	EPOXY			EXPOXY	NOSE	EPOXY 18-	ZONES	LINE PAINT
			INCH	INCH	EPOXY 8-INCH	INCH						EPOXY	INCH		4-INCH
STATION TO STATION	LOCATION		(WHITE)	(YELLOW)	(WHITE)	(YELLOW)	EACH	EACH	(WHITE)	(YELLOW)	(YELLOW)	(YELLOW)	(WHITE)	MI	(YELLOW)
			LF	LF	LF	LF			LF	LF	LF	EACH	LF		LF
PROJECT 1500-73-60															
114+79	-	122+93	USH 10	1,610	2,270	15	814	---	---	---	105	10	1	---	814
1+00	-	3+83	CTH N RAB	---	---	170	---	---	---	---	---	---	---	70	283
124+14	-	137+77	USH10	2,800	3,360	15	1,363	---	---	---	105	10	1	---	1,363
137+77	-	219+77	USH 10	16,400	2,950	---	8,200	---	---	---	---	---	---	1.55	8,200
219+77	-	227+69	USH 10	1,510	2,140	60	792	---	---	90	10	10	1	0.15	792
226+31	-	236+80	USH 10	1,425	1,905	60	1,049	---	---	10	30	10	1	0.20	1,049
236+80	-	557+49	USH 10	64,138	10,235	400	32,069	---	---	---	---	---	---	6.07	32,069
557+49	-	566+12	USH 10	1,530	3,435	60	863	---	1	---	130	10	1	0.16	863
567+52	-	577+25	USH 10	1,590	3,300	180	973	---	1	---	155	10	1	0.18	973
10+00	-	18+82	CTH N	1,800	2,150	20	882	---	---	15	50	10	1	0.17	882
20+13	-	22+27	CTH N	560	970	280	214	3	3	10	15	10	1	0.04	214
20+00	-	29+57	STH 55	1,130	1,480	---	957	---	---	---	40	10	1	0.18	957
31+19	-	44+00	STH 55	2,170	3,045	130	1,281	---	---	20	80	10	1	0.24	1,281
32+00	-	41+81	STH 32/57	1,760	3,185	60	981	---	1	---	140	10	1	0.19	981
43+22	-	54+50	STH 32/57	1,935	3,430	60	1,128	---	1	---	215	10	1	0.21	1,128
SUBTOTALS				100,358	43,855	1,510	51,566	3	7	145	1,075	120	12	190	51,849
PROJECT TOTALS				100,358	43,855	1,510	51,566	3	7	1,220		120	12	190	51,849

NOTE: TEMPORARY PAVEMENT MARKING PAINT APPLIED TO MILLED SURFACE

NOTE: PAVEMENT MARKING SAME DAY EPOXY FOR APPLICATION BEFORE CENTER LINE RUMBLE STRIP PLACED

NOTE: PAVEMENT MARKING EPOXY 4-INCH (YELLOW) FOR APPLICATION AFTER CENTER LINE RUMBLE STRIP PLACED.

TEMPORARY PORTABLE RUMBLE STRIPS

PROJECT	643.0310.S TEMPORARY PORTABLE RUMBLE STRIPS LS	
1500-73-60	1	
PROJECT TOTAL		1

TRAFFIC CONTROL

PROJECT	643.5000 TRAFFIC CONTROL EA
CATEGORY 0010	
1500-73-60	1

TRAFFIC CONTROL

LOCATION	ROADWAY	TRAFFIC CONTROL DRUMS APPROX. SERVICE PERIOD	643.0300 TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL SIGNS APPROX. SERVICE PERIOD	643.0900 * TRAFFIC CONTROL SIGNS		REMARKS
		DAYS	NO.	DAYS	DAYS	NO.	DAYS	
PROJECT 1500-73-60								
BEGIN PROJECT	USH 10	0	0	0	40	7	280	SEE SDD 15C4-4 & SDD 15D39-1 TWO-WAY TWO LANE
CTH N RAB	USH 10	10	10	100	40	6	240	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL & SDD 15D28-3
STATE PARK RD.	USH 10	0	0	0	40	4	160	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL
STH 55 RAB	USH 10	10	10	100	40	6	240	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL & SDD 15D28-3
PETERS RD.	USH 10	0	0	0	40	4	160	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAI8-3
HARWOOD RD.	USH 10	0	0	0	40	4	160	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL
MILITARY RD.	USH 10	10	20	200	40	6	240	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL & SDD 15D28-3
BLOY RD.	USH 10	0	0	0	40	2	80	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL
BRANDT ST. JOHN RD.	USH 10	0	0	0	40	4	160	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL
HARVESTORE RD.	USH 10	10	10	100	40	5	200	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL & SDD 15D28-3
CTH D	USH 10	10	20	200	40	6	240	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL & SDD 15D28-3
MICKE RD.	USH 10	0	0	0	40	2	80	SEE SDD 15C4-4, TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL
END PROJECT	USH 10	0	0	0	40	7	280	SEE SDD 15C4-4 & SDD 15D39-1 TWO-WAY TWO LANE

PROJECT TOTALS 700 2,520
* ADDITIONAL SIGNS SHOWN IN THE TRAFFIC CONTROL DETOUR SIGNING SUMMARY - CTH N DETOUR AND USH 10 DETOUR TABLE

MAINTENANCE & REPAIR OF HAUL ROADS
1500-73-60

STATION TO STATION				LOCATION	618.0100 MAINTENANCE & REPAIR OF HAUL ROADS EACH
PROJECT 1500-73-60					
114+79	-	557+49	USH 10		1
PROJECT TOTALS					1

MOBILIZATION

STATION TO STATION			LOCATION	619.0100 MOBILIZATION EACH
PROJECT 1500-73-60				
114+79	-	557+49	USH 10	1
PROJECT TOTALS				1

CONSTRUCTION STAKING

		650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE
STATION TO STATION	LOCATION	LF
PROJECT 1500-73-60		
114+79 - 122+93	USH 10	814
124+23 - 129+00	USH 10	477
129+00 - 144+00	USH 10	1500
144+00 - 159+00	USH 10	1500
159+00 - 174+00	USH 10	1500
174+00 - 189+00	USH 10	1500
189+00 - 204+00	USH 10	1500
204+00 - 219+79	USH 10	1579
238+27 - 249+00	USH 10	1073
249+00 - 264+00	USH 10	1500
264+00 - 279+00	USH 10	1500
279+00 - 294+00	USH 10	1500
294+00 - 309+00	USH 10	1500
309+00 - 324+00	USH 10	1500
324+00 - 339+00	USH 10	1500
339+00 - 354+00	USH 10	1500
354+00 - 369+00	USH 10	1500
369+00 - 384+00	USH 10	1500
384+00 - 399+00	USH 10	1500
399+00 - 414+00	USH 10	1500
414+00 - 429+00	USH 10	1500
429+00 - 444+00	USH 10	1500
444+00 - 459+00	USH 10	1500
459+00 - 474+00	USH 10	1500
474+00 - 489+00	USH 10	1500
489+00 - 504+00	USH 10	1500
504+00 - 519+00	USH 10	1500
519+00 - 534+00	USH 10	1500
534+00 - 549+00	USH 10	1500
549+00 - 557+49	USH 10	849
15+58 - 18+79	USH 10	321
20+27 - 21+33	USH 10	106
PROJECT TOTAL		42,719

SAW CUTTING

		690.0150 * SAWING ASPHALT LF
STATION TO STATION	LOCATION	
PROJECT 1500-73-60		
114+79 - 122+93	USH 10	30
174+00 - 189+00	USH 10	50
204+00 - 219+77	USH 10	30
238+27 - 249+00	USH 10	30
279+00 - 294+00	USH 10	50
324+00 - 339+00	USH 10	50
369+00 - 384+00	USH 10	50
399+00 - 414+00	USH 10	25
429+00 - 444+00	USH 10	50
489+00 - 504+00	USH 10	50
504+00 - 519+00	USH 10	50
549+00 - 557+49	USH 10	30
15+58 - 18+79	CTH N	30
20+27 - 21+33	CTH N	30
PROJECT TOTAL		555

* ADDITIONAL QUANTITIES SHOWN IN CURB & GUTTER

HMA PAVEMENT PWL

		460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
STATION TO STATION	LOCATION		
PROJECT 1500-73-60			
114+79 - 577+25	USH 10	1	1
PROJECT TOTAL		1	1

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
1	USH 10, W. OF CTH N	R2-1	24" X 30"	5.00	---	1	55 MPH
2	"	W6-1	36" X 36"	---	9.00	1	
3	"	R4-7	24" X 30"	5.00	---	1	
4	USH 10, E. OF CTH N	R6-2R	24" X 30"	5.00	---	1	
5	"	W13-1	18" X 18"	---	2.25	1	15 MPH, SIGN ABOVE TO REMAIN
6	"	W14-3	48" X 36"	---	5.56	1	
7	USH 10, W. OF STH 55	W14-3	48" X 36"	---	5.56	1	
8	"	D2-1	72" X 15"	7.50	---	---	MOUNT TO BACK OF SIGN 7, SEE SIGN DETAILS
9	"	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
10	"	W2-6	30" X 30"	---	6.25	1	
11	"	W2-6P	---	---	---	---	REMOVE
12	"	W13-1	18" X 18"	---	2.25	---	MOUNT BELOW SIGN 10
13	"	D1-3	84" X 42"	24.50	---	1	SEE SIGN DETAILS
14	"	R5-1	---	---	---	---	REMOVE
15	"	R2-1	24" X 30"	5.00	---	1	55 MPH
16	"	R4-7	24" X 30"	5.00	---	1	
17	"	R5-1A	---	---	---	---	REMOVE
18	"	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
19	USH 10, E. OF STH 55	R1-2	36" X 31"	3.88	---	1	
20	"	R1-54	24" X 15"	2.50	---	---	MOUNT BELOW SIGN 19
21	"	R1-2	36" X 31"	3.88	---	1	
22	"	R6-2R	24" X 30"	5.00	---	---	MOUNT BELOW SIGN 21
23	"	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
24	"	R5-1A	---	---	---	---	REMOVE
25	"	R4-7	24" X 30"	5.00	---	1	
26	"	R2-1	24" X 30"	5.00	---	1	55 MPH
27	"	R5-1	---	---	---	---	REMOVE
28	"	D1-3	84" X 42"	24.50	---	1	SEE SIGN DETAILS
29	"	W2-6	30" X 30"	---	6.25	1	
30	"	W2-6P	---	---	---	---	REMOVE
31	"	W13-1	18" X 18"	---	2.25	---	MOUNT BELOW SIGN 29
32	"	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
33	"	W14-3	48" X 36"	---	5.56	1	
34	PETERS RD	R1-1	30" X 30"	5.18	---	1	
35	"	R1-1	30" X 30"	5.18	---	1	
PAGE SUBTOTALS				142.11	44.93	24	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
36	HARWOOD RD	R1-1	30" X 30"	5.18	---	1	
37	"	R1-1	30" X 30"	5.18	---	1	
38	USH 10, W. OF CTH M	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
39	"	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
40	"	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
41	CTH M	R1-1	30" X 30"	5.18	---	1	
42	"	R1-1	36" X 36"	7.46	---	1	
43	"	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
44	USH 10, E. OF CTH M	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
45	"	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
46	"	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
47	"	W14-3	48" X 36"	---	5.56	1	
48	BLOY LN	R1-1	30" X 30"	5.18	---	1	
49	USH 10, E. OF BLOY LN	W14-3	48" X 36"	---	5.56	1	
50	"	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
51	USH 10, W. OF CTH BB	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
52	"	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
53	CTH BB	R1-1	36" X 36"	7.46	---	1	
54	"	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
55	USH 10, E. OF CTH BB	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
56	"	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
57	"	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
58	HARVESTORE RD	R1-1	30" X 30"	5.18	---	1	
59	"	R1-1	30" X 30"	5.18	---	1	
60	USH 10, W. OF CTH D	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
61	"	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
62	"	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
63	CTH D	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
64	"	R1-1	36" X 36"	7.46	---	1	
65	"	R1-1	30" X 30"	5.18	---	1	
66	USH 10, E. OF CTH D	J13-1	24" X 45"	7.50	---	1	SEE PLAN SHEET
67	"	J4-1	24" X 36"	6.00	---	1	SEE PLAN SHEET
68	"	J1-1	24" X 39"	6.50	---	1	SEE PLAN SHEET
69	USH 10, E. OF MICKE RD	I2-3	72" X 24"	12.00	---	1	SEE SIGN DETAILS
70	"	W3-5	36" X 36"	---	9.00	1	45 MPH
71	"	R2-1	24" X 30"	5.00	---	1	45 MPH
72	"	W14-3	48" X 36"	---	5.56	1	
73	"	R2-1	24" X 30"	5.00	---	---	55 MPH, MOUNT TO BACK OF SIGN 72
PAGE SUBTOTALS				222.14	25.68	37	
PROJECT TOTALS				364.25	70.61	61	

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY - CTH N DETOUR

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	CTH N DETOUR													
1	US 10/STH 114, W. OF US 10/STH 114 INTERCHANGE, PLACE IN MEDIAN NEXT TO US 10 DETOUR SIGNAGE	M 1-5A	36"X36"	1	12	12								CTH N
	"	W 20-2A	48"X48"	1	12	12								
2	US 10/STH 114, W. OF US 10/STH 114 INTERCHANGE, PLACE ON RIGHT SIDE NEXT TO US 10 DETOUR SIGNAGE	M 1-5A	36"X36"	1	12	12								CTH N
	"	W 20-2A	48"X48"	1	12	12								
3	US 10/STH 114, W. OF US 10/STH 114 INTERCHANGE, PLACE IN MEDIAN NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	36"X18"	1	12	12								
	"	M 1-5A	36"X36"	1	12	12								CTH N
	"	MO 5-2R	30"X30"	1	12	12								
4	US 10/STH 114, W. OF US 10/STH 114 INTERCHANGE, PLACE ON RIGHT SIDE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	36"X18"	1	12	12								
	"	M 1-5A	36"X36"	1	12	12								CTH N
	"	MO 5-2R	30"X30"	1	12	12								
5	US 10/STH 114, AT US 10/STH 114 INTERCHANGE, PLACE ON RIGHT SIDE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	36"X18"	1	12	12								
	"	M 1-5A	36"X36"	1	12	12								CTH N
	"	MO 6-2	30"X30"	1	12	12								TILT RIGHT
6	STH 114, W. OF CTH N, PLACE 500' W. OF CTH N RAB INTERSECTION	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								
	"	MO 6-1	21"X21"	1	12	12								
	"										1	1		
7	CTH N, N. OF STH 114, COVER EXISTING J4-1 SIGN AS SHOWN										1		1	
8	CTH N, N. OF STH 114, PLACE IN NE QUADRANT BEHIND BACK OF CURB	R 11-3	60"X30"	1	12	12	12	24						1 MILE AHEAD
9	CTH N, AT STH 114, COVER EXISTING SPLITTER ISLAND SIGN AS SHOWN										1		1	
10	STH 114, AT CTH N, PLACE NEXT TO EXISTING SPLITTER ISLAND SIGN	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 6-2	21"X21"	1	12	12								TILT RIGHT
11	STH 114, E. OF CTH N, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	12	12								
12	STH 114, W. OF STATE PARK RD, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 6-1	21"X21"	1	12	12								AHEAD
13	STH 114, E. OF STATE PARK RD, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 6-1	21"X21"	1	12	12								AHEAD
14	STH 114, W. OF STH 55, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 5-1L	21"X21"	1	12	12								
15	STH 114, W. OF STH 55, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 6-1	21"X21"	1	12	12								LEFT
16	STH 55/114, E. OF STH 55, PLACE NEXT TO US 10 DETOUR SIGNAGE	M 1-5A	24"X24"	1	12	12								CTH N
	"	W 20-2A	48"X48"	1	12	12								
17	STH 55/114, E. OF STH 55, PLACE NEXT TO US 10 FMS	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 5-1R	21"X21"	1	12	12								
18	STH 55/114, E. OF STH 55, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 6-1	21"X21"	1	12	12								RIGHT
19	STH 114, AT STH 55, PLACE NEXT TO EXISTING SPLITTER ISLAND SIGN	MO 4-8	24"X12"	1	12	12								
	"	M 1-5A	24"X24"	1	12	12								CTH N
	"	MO 6-2	21"X21"	1	12	12								TILT RIGHT

PAGE SUBTOTALS

44

528

12

24

0.0

0

1

2

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

PROJECT NUMBER: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

MISCELLANEOUS QUANTITIES

SHEET

42

E

3

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY - CTH N DETOUR

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	CTH N DETOUR (CONTINUED)													
20	STH 55, N. OF STH 114, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								RIGHT
21	STH 55, N. OF STH 114, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 5-1R	21"x21"	1	12	12								
22	STH 55, S. OF US 10, PLACE NEXT TO EXISTING D1-62 SIGN	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								AHEAD
23	US 10, E. OF STH 55, PLACE NEXT TO US 10 DETOUR SIGNAGE	M 1-5A	24"x24"	1	12	12								CTH N
	"	W 20-2A	48"x48"	1	12	12								
24	USH 10, E. OF STH 55, PLACE RIGHT OF EXISTING D1-62 SIGN	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 5-1R	21"x21"	1	12	12								
25	US 10, E. OF STH 55, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								RIGHT
26	STH 55, AT US 10, PLACE NEXT TO EXISTING SPLITTER ISLAND SIGN	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-2	21"x21"	1	12	12								TILT RIGHT
27	US 10, AT STH 55, PLACE NEXT TO EXISTING SPLITTER ISLAND SIGN	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-2	21"x21"	1	12	12								TILT RIGHT
28	STH 55, N. OF US 10, PLACE NEXT TO US 10 DETOUR SIGNAGE	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								AHEAD
29	STH 55, S. OF CTH KK, PLACE 500' S. OF CTH KK RAB INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 5-1L	21"x21"	1	12	12								
30	STH 55, S. OF CTH KK, PLACE 100' S. OF CTH KK RAB INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								LEFT
31	CTH KK, AT STH 55, PLACE NEXT TO EXISTING SPLITTER ISLAND SIGN	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-2	21"x21"	1	12	12								TILT RIGHT
32	CTH KK, W. OF STH 55, PLACE 100' W. OF STH 55 RAB INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								RIGHT
33	CTH KK, W. OF STH 55, PLACE 500' W. OF STH 55 RAB INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 5-1R	21"x21"	1	12	12								
34	CTH KK, E. OF STATE PARK RD, PLACE 100' E. OF STATE PARK RD INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								AHEAD
35	CTH KK, W. OF STATE PARK RD, PLACE 100' W. OF STATE PARK RD INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								AHEAD
36	CTH KK, E. OF CTH N, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"x18"	1	12	12								
37	CTH KK, AT CTH N, MODIFY EXISTING J13-1 SIGN AS SHOWN	MO 6-1	21"x21"	1	12	12								RIGHT
PAGE SUBTOTALS				49		588	0	0	0.00	0		0	0	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

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TRAFFIC CONTROL DETOUR SIGN SUMMARY - CTH N DETOUR

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	CTH N DETOUR (CONTINUED)													
38	CTH N, N. OF CTH KK, PLACE 1000' N. OF CTH KK INTERSECTION	W 20-2A	48"x48"	1	12	12								
39	CTH N, N. OF CTH KK, PLACE 500' N. OF CTH KK INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 5-1L	21"x21"	1	12	12								
40	CTH N, N. OF CTH KK, PLACE 100' N. OF CTH KK INTERSECTION	MO 4-8	24"x12"	1	12	12								
	"	M 1-5A	24"x24"	1	12	12								CTH N
	"	MO 6-1	21"x21"	1	12	12								LEFT
41	CTH KK, W. OF CTH N, PLACE 500' W. OF CTH N INTERSECTION	M 1-5A	24"x24"	1	12	12								CTH N
	"	W 20-2A	48"x48"	1	12	12								
42	CTH KK, W. OF CTH N, MODIFY EXISTING J13-1 SIGN AS SHOWN	MO 6-6	21"x21"	1	12	12								
43	CTH N, S. OF CTH KK, COVER EXISTING M1-5A SIGN AS SHOWN										1		1	COVER ENTIRE SIGN
44	CTH N, AT CTH KK, PLACE IN SW QUADRANT, PLACE BEHIND BACK OF CURB	R 11-3	60"x30"	1	12	12								2 MILES AHEAD
	"	MO 4-9L	30"x24"	1	12	12								
45	CTH N, N. OF US 10 INTERSECTION, PLACE ON RIGHT SHOULDER, FIELD DETERMINED	PCMS		1						7				PLACE 7 DAYS IN ADVANCE
46	CTH N, S. OF US 10 INTERSECTION, PLACE ON RIGHT SHOULDER, FIELD DETERMINED	PCMS		1						7				PLACE 7 DAYS IN ADVANCE
PAGE SUBTOTALS				14		144	0	0	0.00	14		0	1	
CTH N DETOUR TOTALS				107		1,260	12	24	0	14		1	3	
PROJECT TOTALS				215		2,556	60	120	59	14		1	13	

PLAN SHEET PRODUCED
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TRAFFIC CONTROL DETOUR SIGN SUMMARY - US 10 DETOUR

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	US 10 DETOUR												
1	US 10/STH 114, W. OF US 10/STH 114 SPLIT, PLACE 1/2 MILE W. OF INTERCHANGE ON RIGHT SHOULDER	M 3-2	36"X18"	1	12	12							
	"	M 1-4	36"X36"	1	12	12							10
	"	W 20-2A	48"X48"	1	12	12							
2	US 10/STH 114, W. OF US 10/STH 114 SPLIT, PLACE 1/2 MILE W. OF INTERCHANGE IN MEDIAN	M 3-2	36"X18"	1	12	12							
	"	M 1-4	36"X36"	1	12	12							10
	"	W 20-2A	48"X48"	1	12	12							
3	US 10/STH 114, W. OF US 10/STH 114 SPLIT, MODIFY EXISITNG J2-2 SIGN AS SHOWN	MO 4-8	24"X12"	1	12	12							
	"	MO 5-2R	21"X21"	1	12	12							
4	US 10/STH 114, W. OF US 10/STH 114 SPLIT, PLACE ACROSS FROM SIGN #3 IN MEDIAN	MO 4-8	36"X18"	1	12	12							
	"	M 3-2	36"X18"	1	12	12							
	"	M 1-4	36"X36"	1	12	12							10
	"	MO 5-2R	30"X30"	1	12	12							
5	US 10/STH 114, W. OF US 10/STH 114 SPLIT, PLACE ACROSS FROM SIGN #6 IN MEDIAN	FMS	78"X36"	1	12	12			19.5				
6	US 10/STH 114, W. OF US 10/STH 114 SPLIT, COVER EXISTING D1-3 SIGN AS SHOWN										1	1	COVER "MANITOWOC"
7	US 10/STH 114, AT STH 114 EXIT RAMP, MODIFY EXISTING J3-1 AS SHOWN	MO 4-8	24"X12"	1	12	12							
	"	MO 6-2	21"X21"	1	12	12							TILT RIGHT
8	US 10/STH 114, AT STH 114 EXIT RAMP, PLACE ACROSS FROM SIGN #7	MO 4-8	36"X18"	1	12	12							
	"	M 3-2	36"X18"	1	12	12							
	"	M 1-4	36"X36"	1	12	12							10
	"	MO 6-2	30"X30"	1	12	12							TILT RIGHT
9	US 10, AT STH 114 EXIT RAMP, PLACE ON RIGHT SHOULDER	R 11-3	60"X30"	1	12	12	12	24					3/4 MILE AHEAD
10	STH 114 RAMP TO US 10 EAST, COVER EXISTING J3-1 SIGN AS SHOWN										1	1	COVER ENTIRE SIGN
11	US 10, AT STH 114 EXIT RAMP, PLACE ON RIGHT SHOULDER	R 11-3	60"X30"	1	12	12	12	24					1/2 MILE AHEAD
12	STH 114, E. OF US 10, COVER EXISTING J3-2 SIGN AS SHOWN										1	1	COVER "EAST 10 TILT RIGHT"
13	STH 114, E. OF US 10, COVER EXISTING J2-3 SIGN AS SHOWN										1	1	COVER "EAST 10 ADV TILT RIGHT"
14	STH 114, E. OF US 10, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	12	12							
15	STH 114, AT CTH N, PLACE 250' N. OF CTH N RAB INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	M 3-2	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 6-1	21"X21"	1	12	12							AHEAD
16	STH 114, AT CTH N, PLACE ABOVE EXISTING D1-1 SPLITER ISLAND SIGN	MO 4-8	24"X12"	1	12	12							
	"	M 3-2	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 6-2	21"X21"	1	12	12							TILT RIGHT
17	STH 114, AT CTH N, PLACE 250' S. OF CTH N RAB INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	M 3-4	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 6-1	21"X21"	1	12	12							AHEAD
18	STH 114, AT STATE PARK RD, PLACE 250' N. OF STATE PARK RD INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	M 3-2	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 6-1	21"X21"	1	12	12							AHEAD
19	STH 114, AT STATE PARK RD, PLACE 250' S. OF STATE PARK RD INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	M 3-4	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 6-1	21"X21"	1	12	12							AHEAD

PLAN SHEET PRODUCED
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PAGE SUBTOTALS

42

504

24

48

19.5

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4

PROJECT NUMBER: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

MISCELLANEOUS QUANTITIES

SHEET

45

E

3

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY - US 10 DETOUR

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	US 10 DETOUR (CONTINUED)												
20	STH 114, N. OF STH 55, PLACE 750' N. OF STH 55 INTERSECTION	MO 4-8	24"x12"	1	12	12							
	"	M 3-2	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 5-1L	21"x21"	1	12	12							
21	STH 114, N. OF STH 55, PLACE RIGHT OF EXISTING J4-1 SIGN N. OF STH 55 INTERSECTION	MO 4-8	24"x12"	1	12	12							
	"	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
22	STH 114, N. OF STH 55, PLACE 100' N. OF STH 55 INTERSECTION	MO 4-8	24"x12"	1	12	12							
	"	M 3-2	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 6-1	21"x21"	1	12	12							LEFT
23	STH 55/STH 114, S. OF STH 55, PLACE 1/2 MILE S. OF STH 55 RAB INTERSECTION	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							
	"	W 20-2A	48"x48"	1	12	12							
24	STH 55/STH 114, S. OF STH 55, PLACE 1/4 MILE S. OF STH 55 RAB INTERSECTION	FMS	78"x36"	1	12	12			19.5				
25	STH 55/STH 114, S. OF STH 55, PLACE 250' S. OF STH 55 RAB INTERSECTION	MO 4-8	24"x12"	1	12	12							
	"	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 6-1	21"x21"	1	12	12							AHEAD
26	STH 55/STH 114, AT STH 55 SPLIT, PLACE ABOVE EXISTING D1-1 SPLITTER ISLAND SIGN	MO 4-8	24"x12"	1	12	12							
	"	M 3-2	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 6-2	21"x21"	1	12	12							TILT RIGHT
27	STH 55, N. OF STH 114, PLACE RIGHT OF EXISITNG J4-1 SIGN AS SHOWN	MO 4-8	24"x12"	1	12	12							
	"	M 3-2	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
28	STH 55, N. OF STH 114, PLACE 250' N. OF STH 114 RAB INTERSECTION	MO 4-8	24"x12"	1	12	12							
	"	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 6-1	21"x21"	1	12	12							RIGHT
29	STH 55, N. OF STH 114, PLACE 750' N. OF STH 114 EAB INTERSECTION	MO 4-8	24"x12"	1	12	12							
	"	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 5-1R	21"x21"	1	12	12							
30	STH 55, S. OF US 10, MODIFY EXISITNG J1-1 SIGN AS SHOWN	M 4-8A	24"x18"	1	12	12							
31	STH 55, S. OF US 10, COVER EXISITNG D1-62 SIGN AS SHOWN			1	12	12					1	1	COVER "WEST 10"
32	STH 55, S. OF US 10, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-8	24"x12"	1	12	12							
	"	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
33	STH 55, AT US 10, PLACE ABOVE EXISITNG D1-1 SPLITTER ISLAND SIGN	MO 4-8	24"x12"	1	12	12							
	"	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 6-2	21"x21"	1	12	12							TILT RIGHT
34	US 10, E. OF STH 55, PLACE 1/4 MILE E. OF STH 55 INTERSECTION	W 20-2A	48"x48"	1	12	12							
35	US 10, E. OF STH 55, COVER EXISTING D1-62 SIGN AS SHOWN AND PLACE ASSEMBLY TO LEFT OF EXISTING SIGN										1	1	COVER "WEST 10"
	"	MO 4-8	24"x12"	1	12	12							
	"	M 3-4	24"x12"	1	12	12							
	"	M 1-4	24"x24"	1	12	12							10
	"	MO 5-1L	21"x21"	1	12	12							

PLAN SHEET PRODUCED

PAGE SUBTOTALS

48

576

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BY WisDOT - NE REGION

PROJECT NUMBER: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

MISCELLANEOUS QUANTITIES

SHEET

46

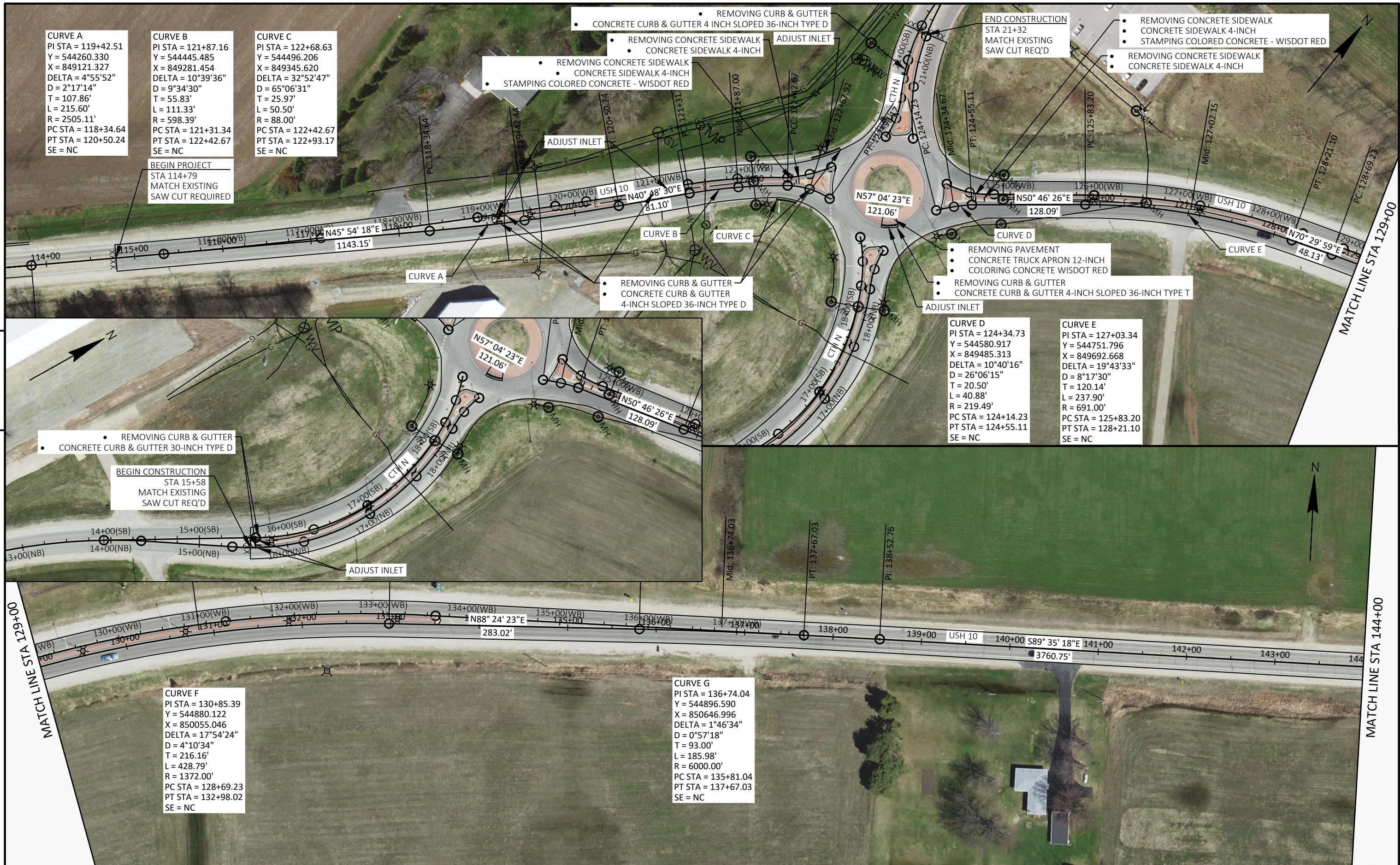
E

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY - US 10 DETOUR

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
US 10 DETOUR (CONTINUED)													
36	US 10, E. OF STH 55, PLACE 700' E. OF STH 55 RAB INTERSECTION	FMS	78"X36"	1	12	12			19.5				
37	US 10, E. OF STH 55, COVER EXISTING D1-3 SIGN AS SHOWN										1	1	COVER "APPLETON"
38	US 10, E. OF STH 55, PLACE 100' E. OF STH 55 RAB INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	M 3-4	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 6-1	21"X21"	1	12	12							LEFT
39	STH 55, N. OF US 10, PLACE 1000' N. OF US 10 RAB INTERSECTION	M 3-4	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	W 20-2A	48"X48"	1	12	12							
40	STH 55, N. OF US 10, COVER EXISTING D1-62 SIGN AS SHOWN AND PLACE ASSEMBLY TO LEFT OF EXISTING SIGN										1	1	
	"	MO 4-8	24"X12"	1	12	12							
	"	M 3-4	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 5-1L	21"X21"	1	12	12							
41	STH 55, N. OF US 10, PLACE 100' N. OF US 10 RAB INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	M 3-4	24"X12"	1	12	12							
	"	M 1-4	24"X24"	1	12	12							10
	"	MO 6-1	21"X21"	1	12	12							AHEAD
42	US 10, AT STH 55, COVER EXISTING D1-1 SIGN AS SHOWN										1	1	COVER ENTIRE SIGN
43	US 10, W. OF STH 55, PLACE ON RIGHT SHOULDER IN NW QUADRANT	R 11-3	60"X30"	1	12	12	12	24					2 MILES AHEAD
44	US 10, W. OF STH 55, COVER EXISTING J4-1 SIGN AS SHOWN										1	1	COVER ENTIRE SIGN
45	US 10, W. OF STATE PARK RD, PLACE ON RIGHT SHOULDER IN NW QUADRANT	R 11-3	60"X30"	1	12	12	12	24					1 MILE AHEAD
PAGE SUBTOTALS				18		216	24	48	19.50	0		4	
US 10 DETOUR TOTALS				108		1,296	48	96	59	0		10	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION



PROJECT NO: 1500-73-60

HWY: USH 10

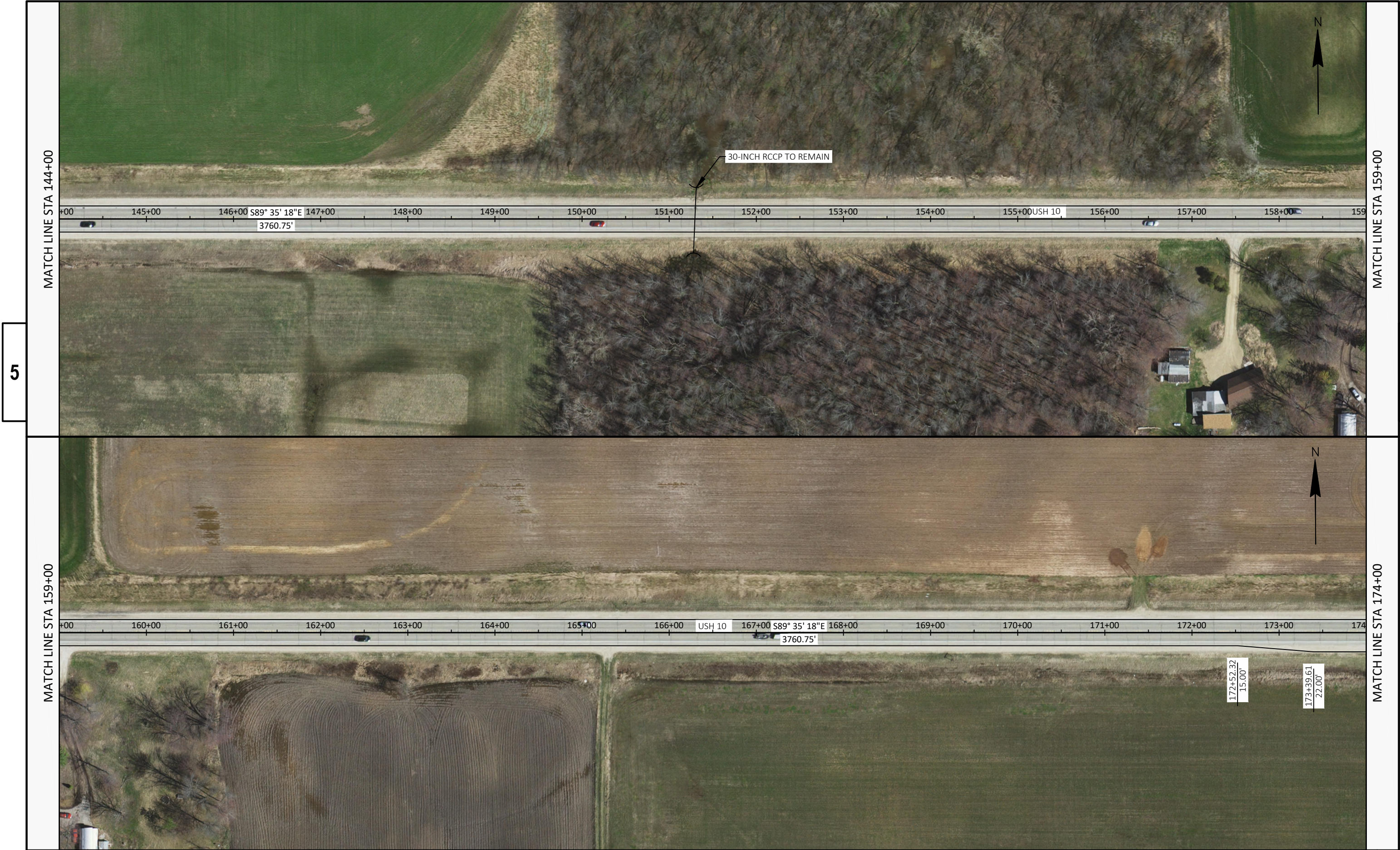
COUNTY: CALUMET

PLAN AND PROFILE: USH 10

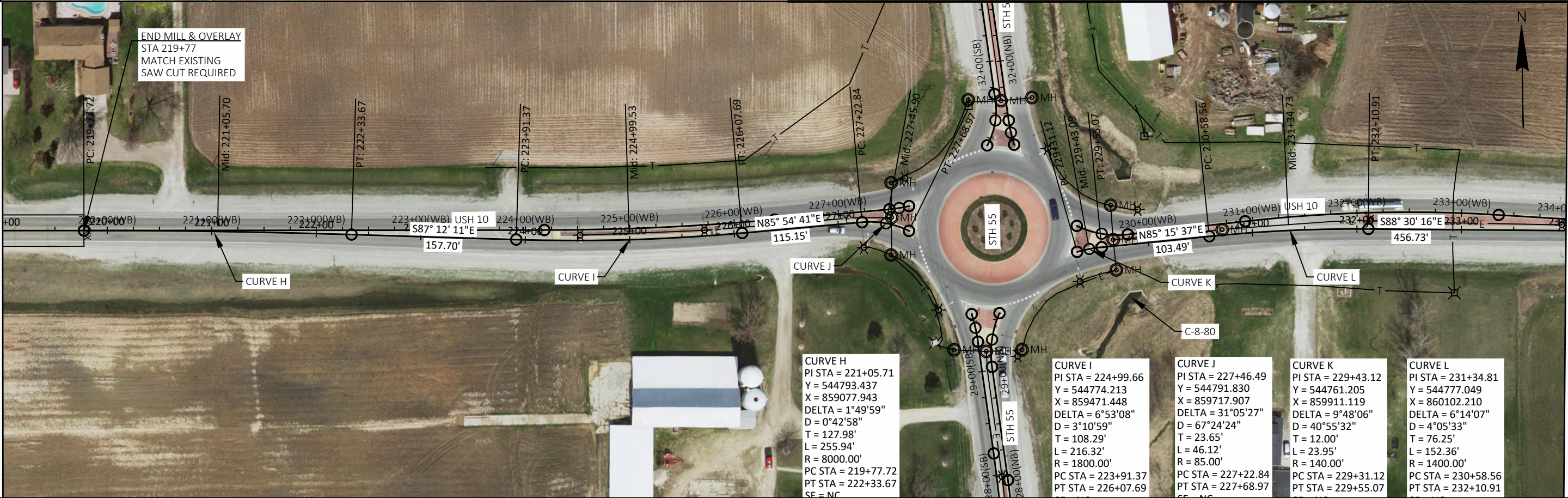
SHEET

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E







PROJECT NO: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

PLAN AND PROFILE: USH 10

SHEET

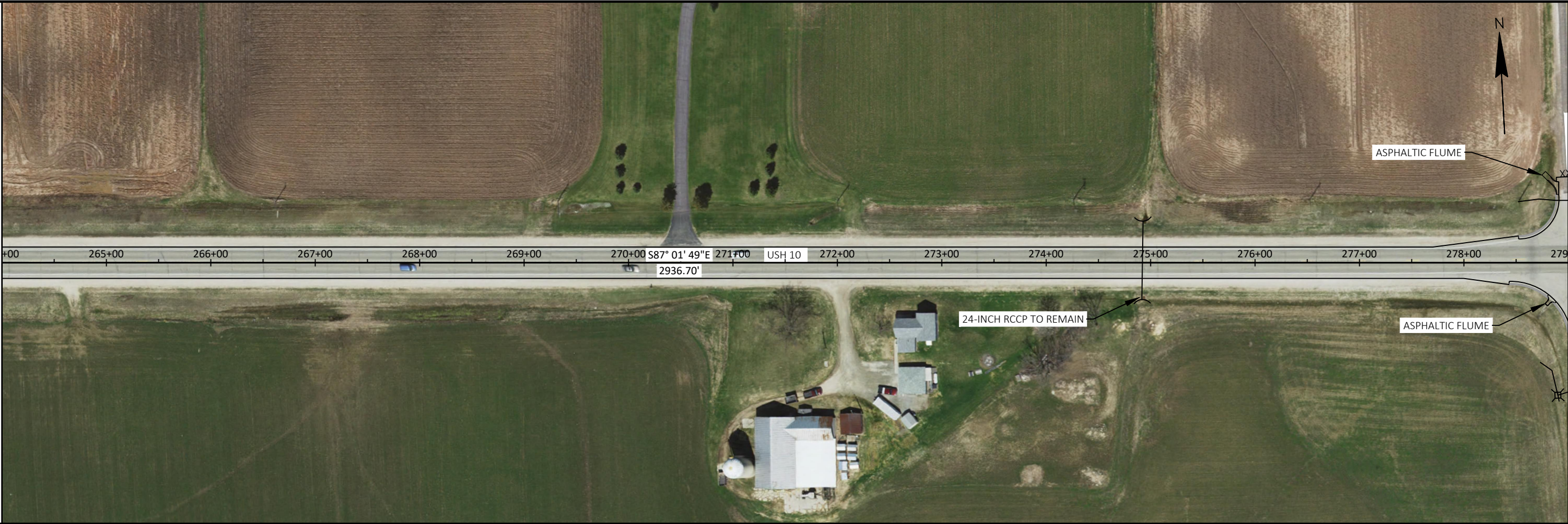
51

E



5

MATCH LINE STA 264+00



MATCH LINE STA 279+00

5

MATCH LINE STA 279+00



MATCH LINE STA 294+00

PROJECT NO: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

PLAN AND PROFILE: USH 10

SHEET

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E

FILE NAME : F:\TR\JOBS\E2285A17\CIVIL 3D 2016\SHEETS\PLAN\1500-73-60\15007360-050201-PN.DWG
LAYOUT NAME - 15007360-050211-pn

PLOT DATE : 12/18/2018 12:13 PM

PLOT BY : MATT TOMSOVIC

PLOT NAME :

PLOT SCALE : #####

WISDOT/CADDS SHEET 44





PROJECT NO: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

PLAN AND PROFILE: USH 10

SHEET 55

E

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LAYOUT NAME - 15007360-050215-pn

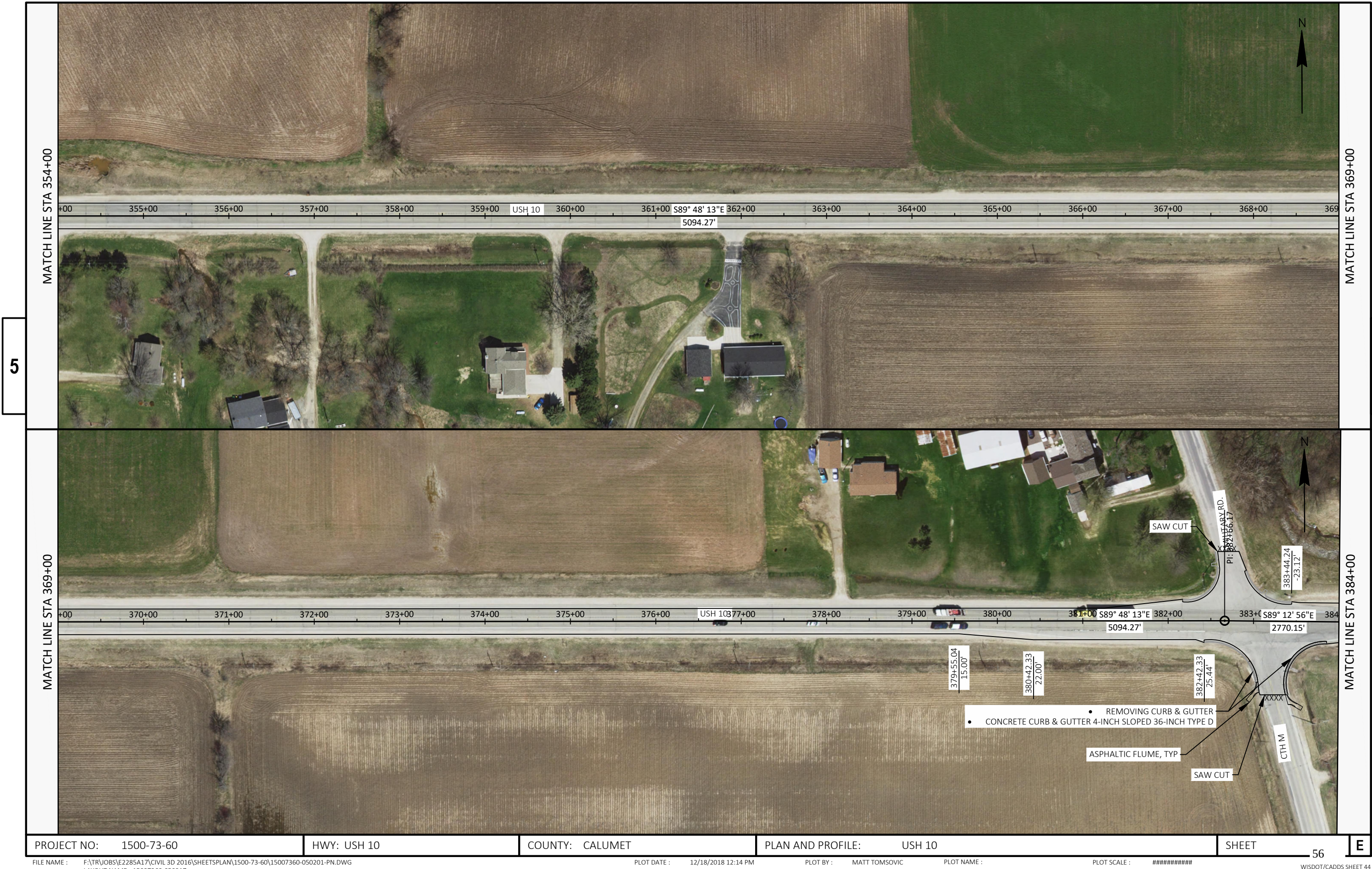
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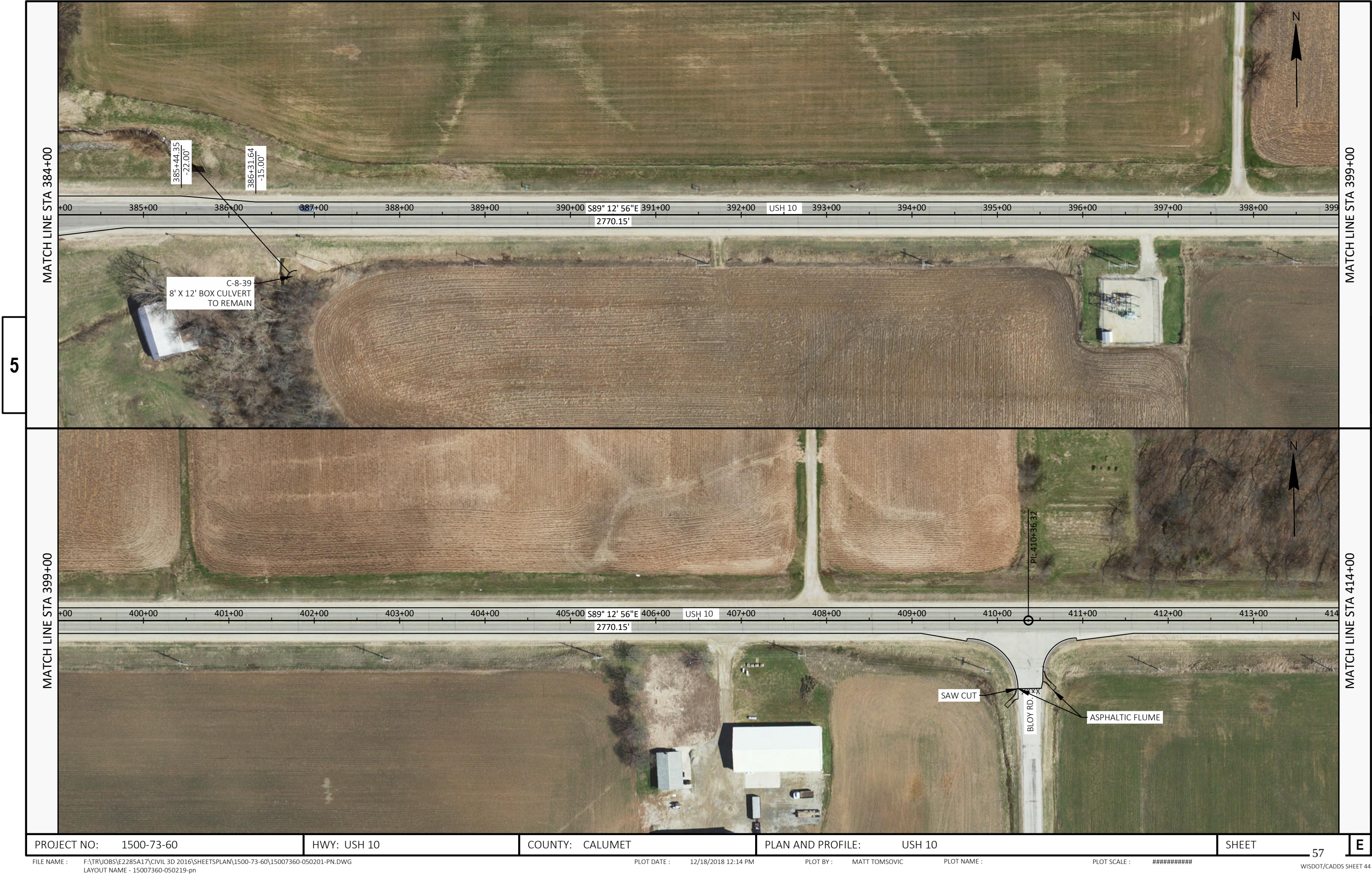
PLOT BY : MATT TOMSOVIC

PLOT NAME :

PLOT SCALE : #####

WISDOT/CADDS SHEET 44









5

MATCH LINE STA 474+00



MATCH LINE STA 489+00

5

MATCH LINE STA 489+00



MATCH LINE STA 504+00

PROJECT NO: 1500-73-60

HWY: USH 10

COUNTY: CALUMET

PLAN AND PROFILE: USH 10

SHEET

60

E

FILE NAME : F:\TR\JOBS\E2285A17\CIVIL 3D 2016\SHEETS\PLAN\1500-73-60\15007360-050201-PN.DWG
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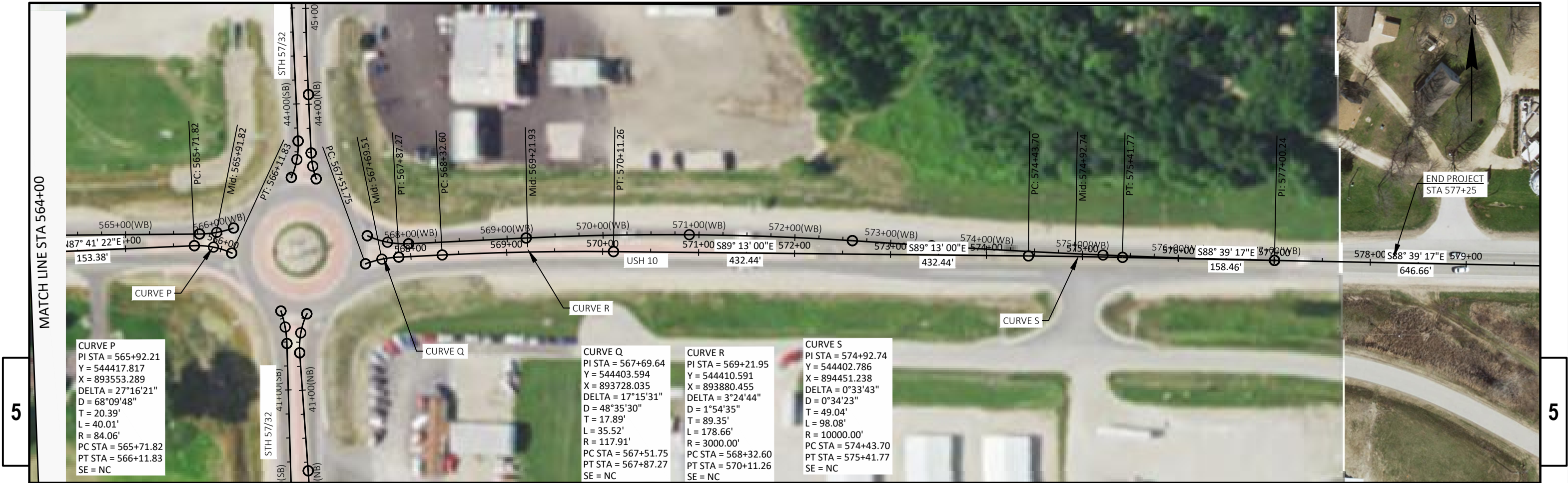
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PLOT NAME :

PLOT SCALE : #####

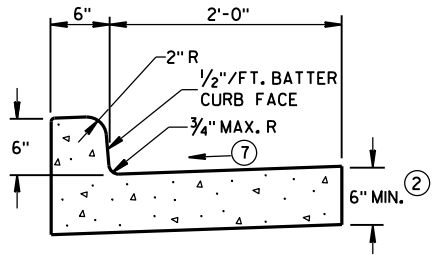
WISDOT/CADD5 SHEET 44



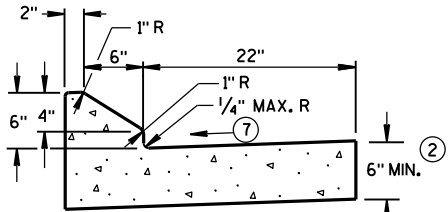


Standard Detail Drawing List

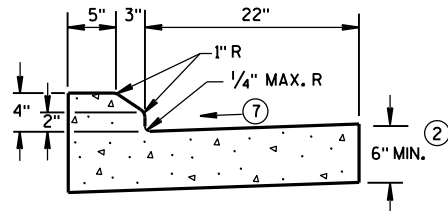
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14D	ROUNDAABOUT ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING



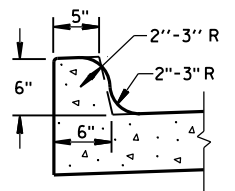
TYPES A^① & D



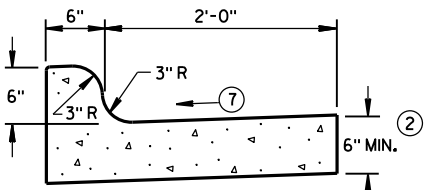
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

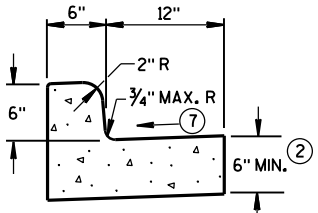


TYPES K^① & L
(OPTIONAL CURB SHAPE)



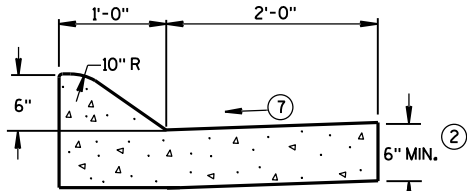
TYPES K^① & L

CONCRETE CURB & GUTTER 30"

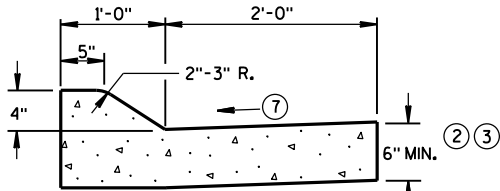


TYPES A^① & D

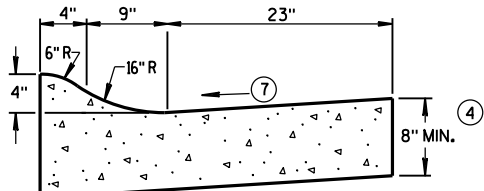
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A^① & D

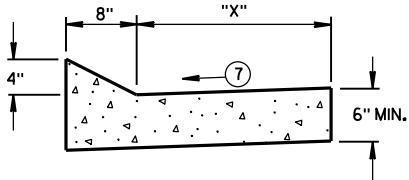


4" SLOPED CURB TYPES A^① & D



4" SLOPED CURB TYPES R^① & T^⑤

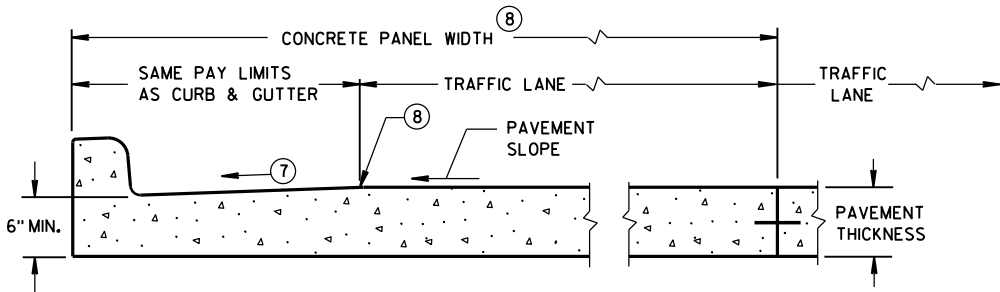
CONCRETE CURB & GUTTER 36"



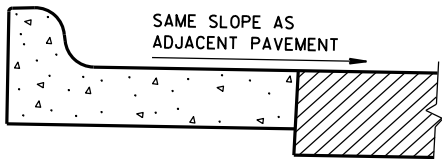
TYPES TBT & TBTT^①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER^⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

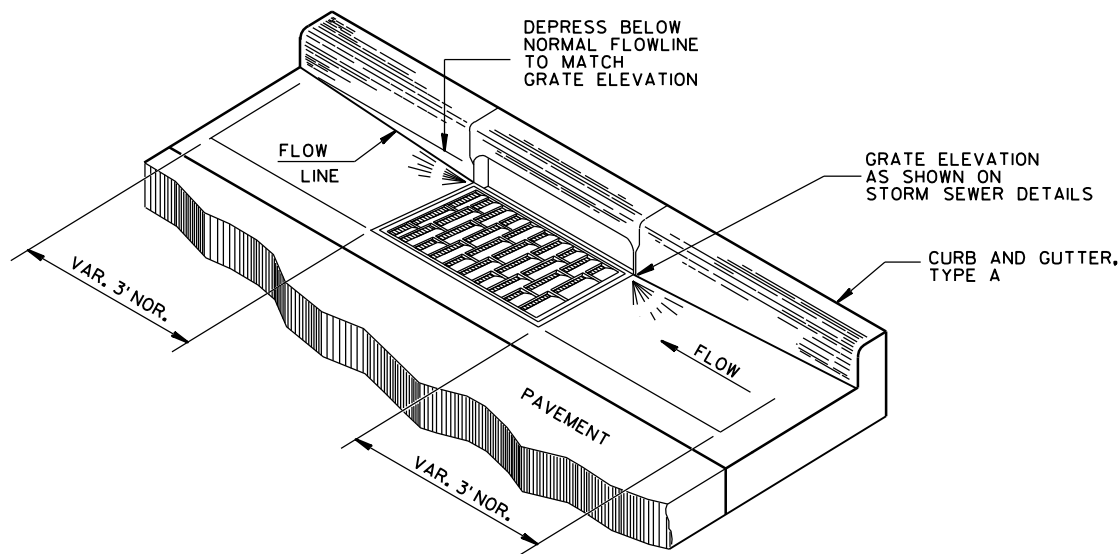
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

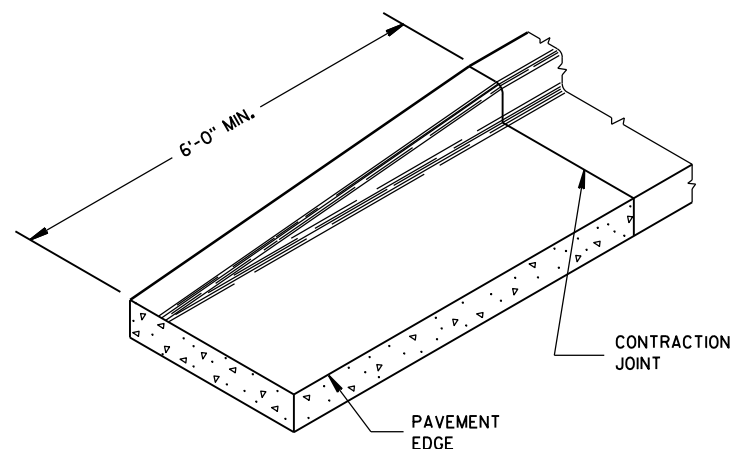
* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

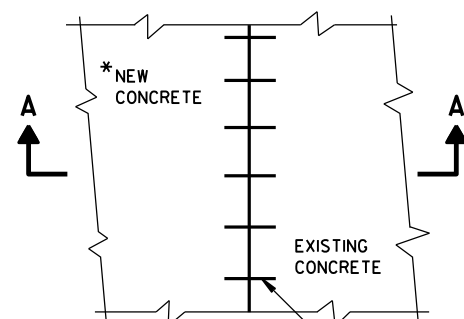
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



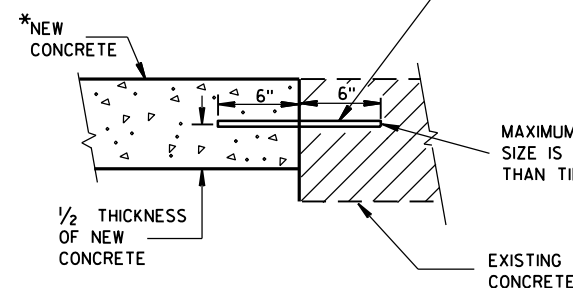
DETAIL OF CURB AND GUTTER AT INLETS
(TYPE H INLET COVER SHOWN)



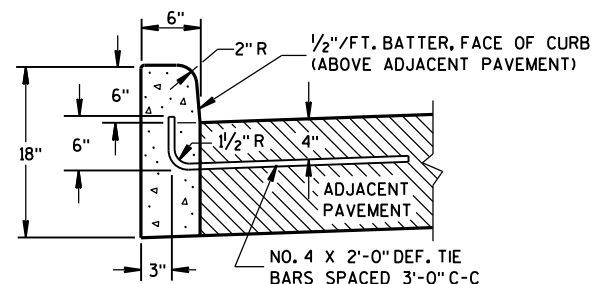
END SECTION CURB & GUTTER



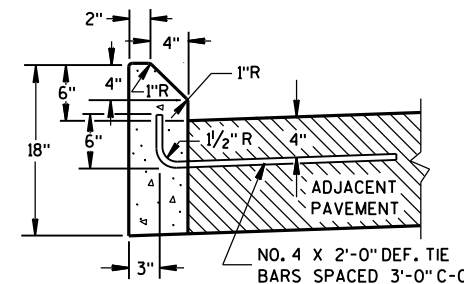
PLAN VIEW



SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT



TYPES A^① & D

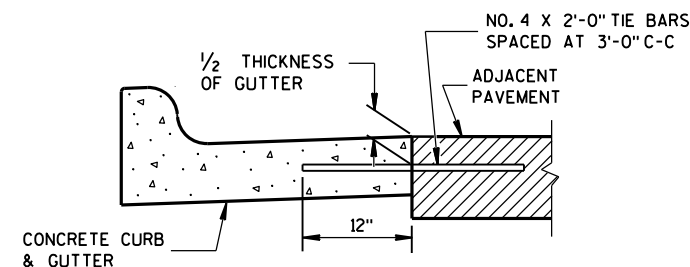


TYPES G^① & J

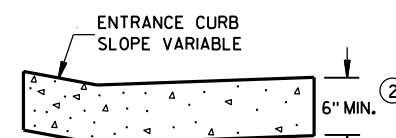
GENERAL NOTES

- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
- PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.
- UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
 - ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
 - ③ REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

CONCRETE CURB



TYPICAL TIE BAR LOCATION^①

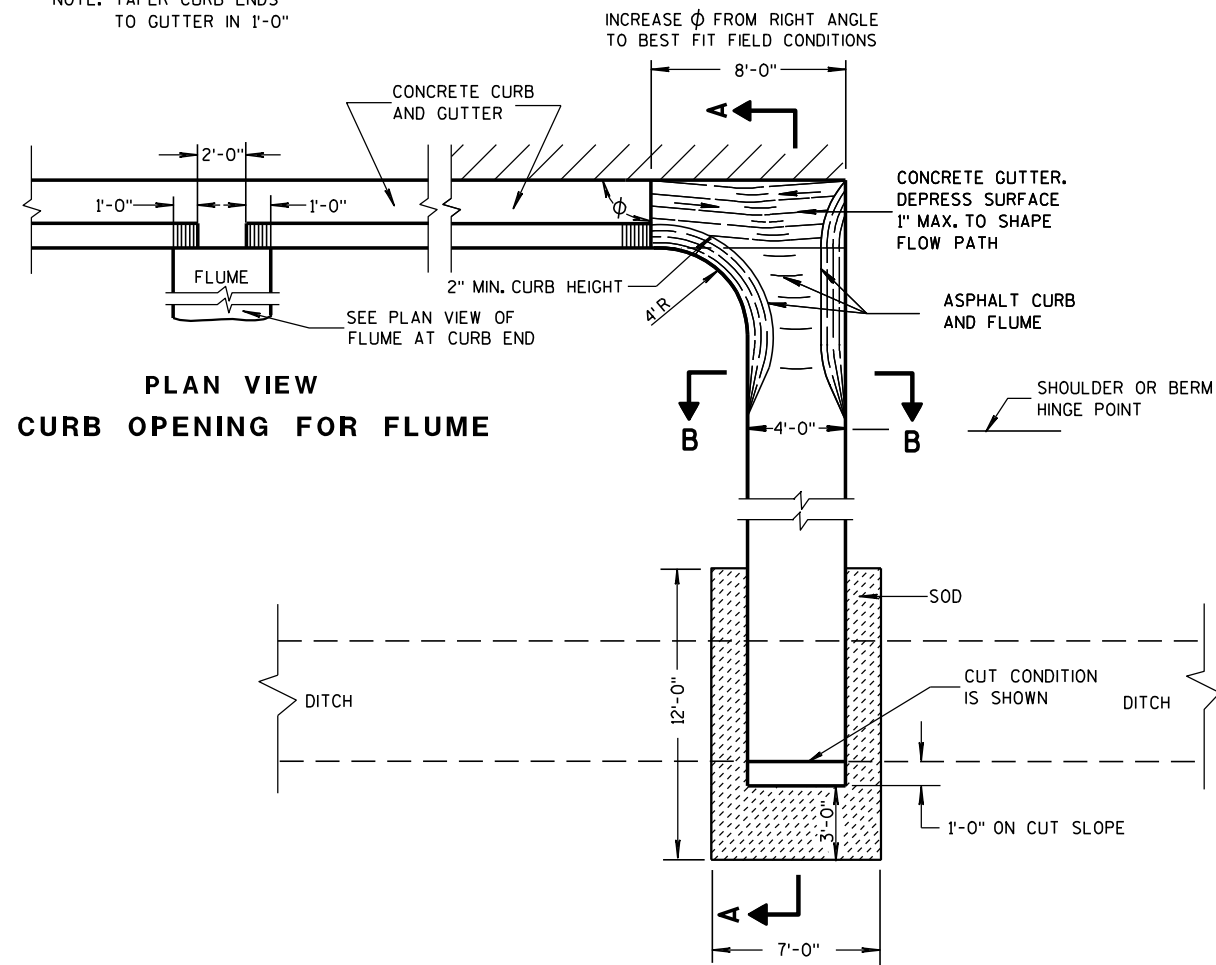


DRIVEWAY ENTRANCE CURB^⑨
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED June, 2017 DATE	/S/ Rodney Taylor ROADWAY STANDARDS 66 UNIT SUPERVISOR	ENT	
FHWA			

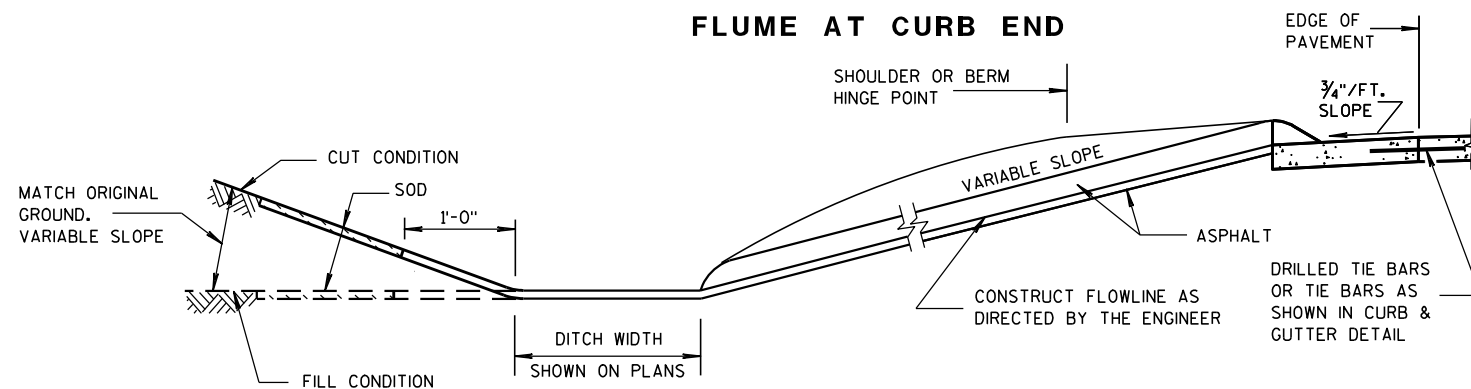
ASPHALTIC FLUME

NOTE: TAPER CURB ENDS
TO GUTTER IN 1'-0"

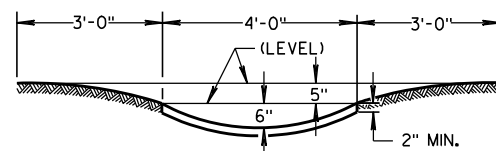


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

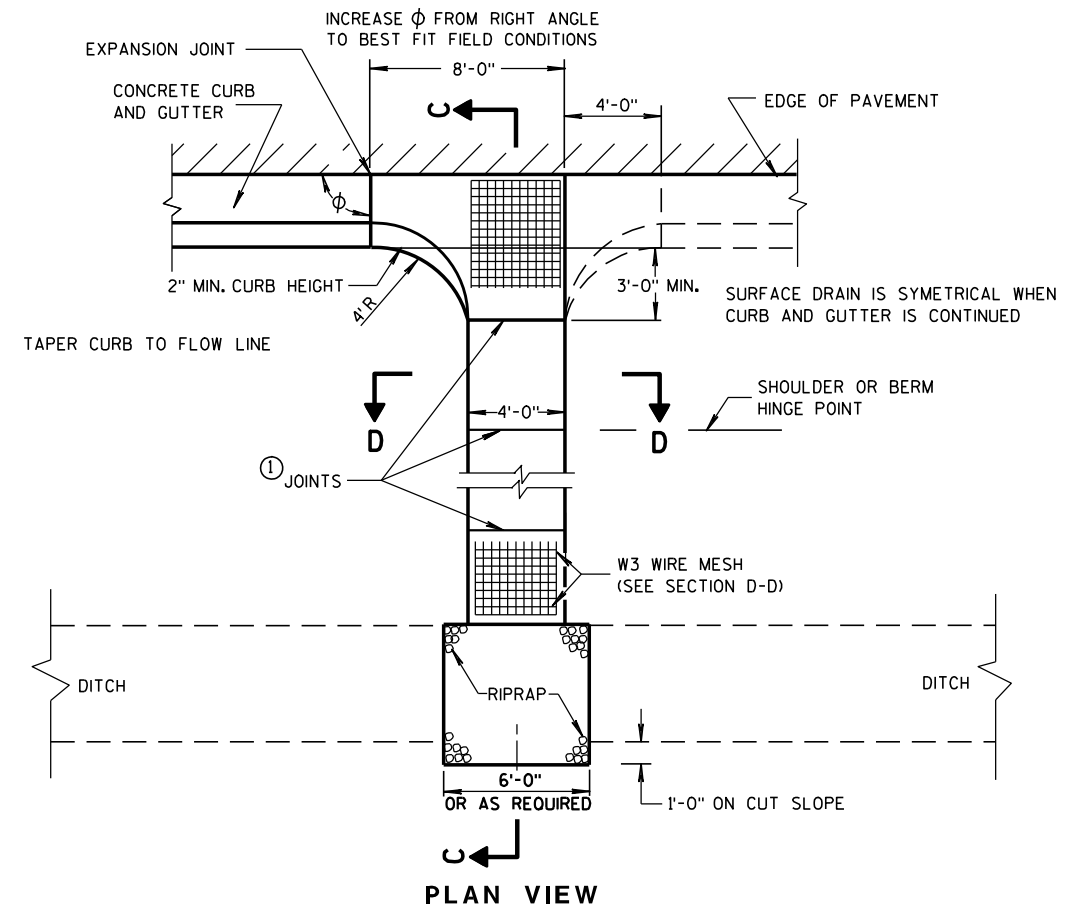
GENERAL NOTES

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

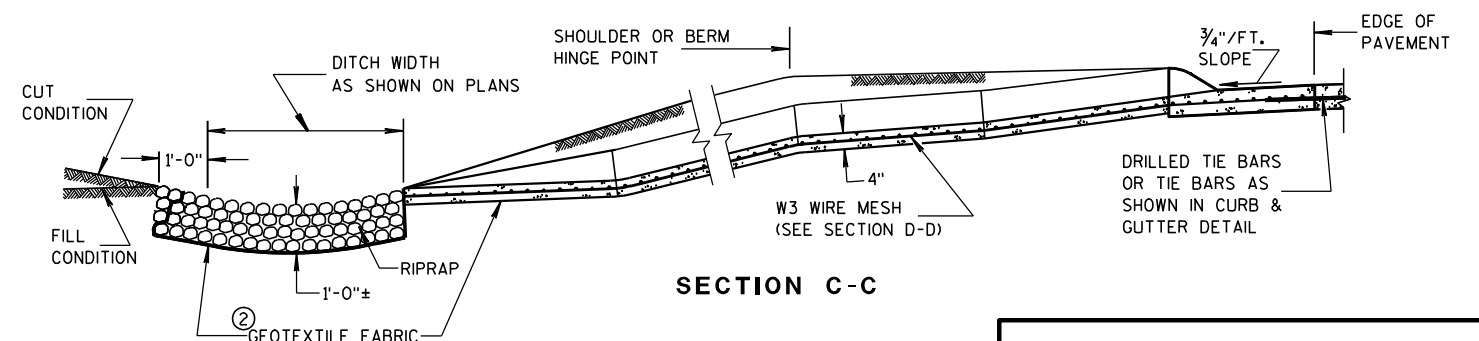
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

- ① JOINTS SHALL BE 1/8" TO 1/4" INCH WIDE BY 1 1/2" INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

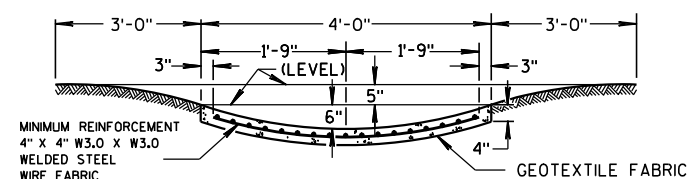
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-4-08

DATE

FHWA

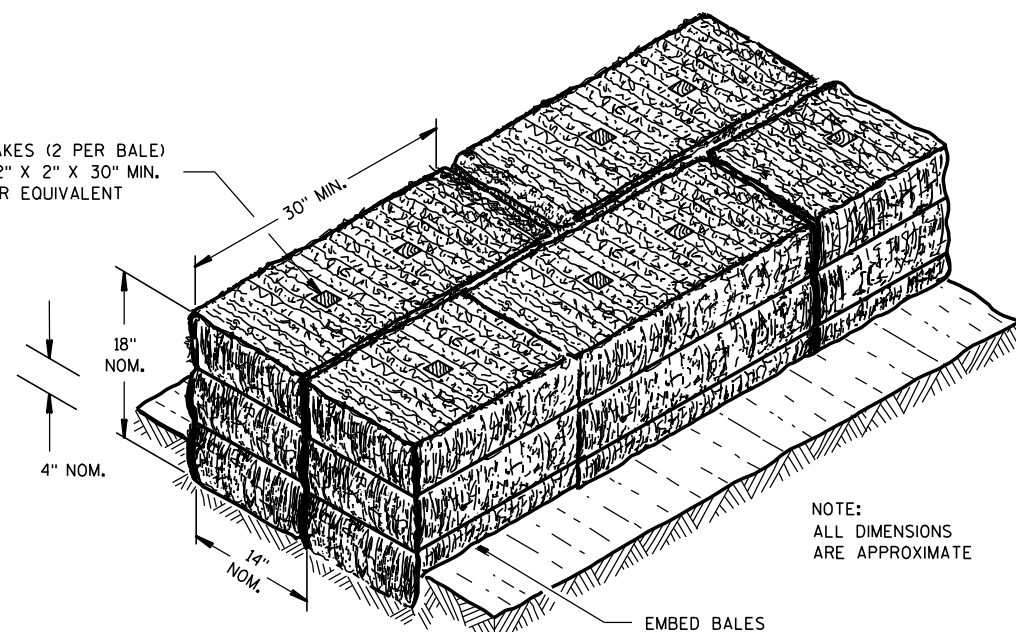
/S/ Jerry H. 7000

ROADWAY STANDARDS 67

ENGINEER

MENT

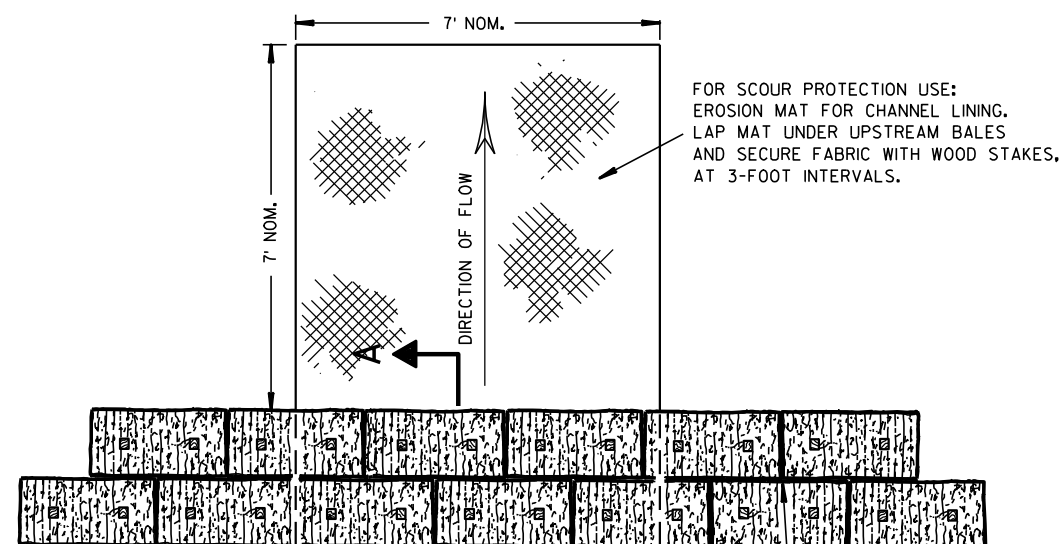
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

EMBED BALES

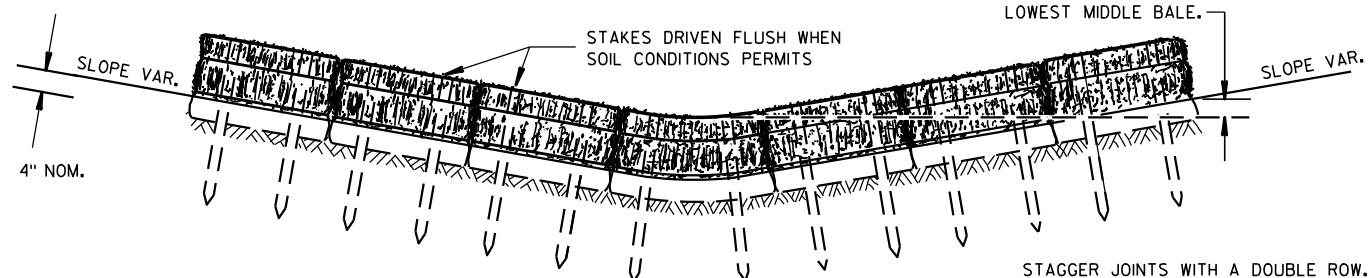
SECTION A-A



PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

BOTTOM ELEVATION OF END BALE SHALL
BE EQUAL TO OR GREATER THAN TOP OF
LOWEST MIDDLE BALE.



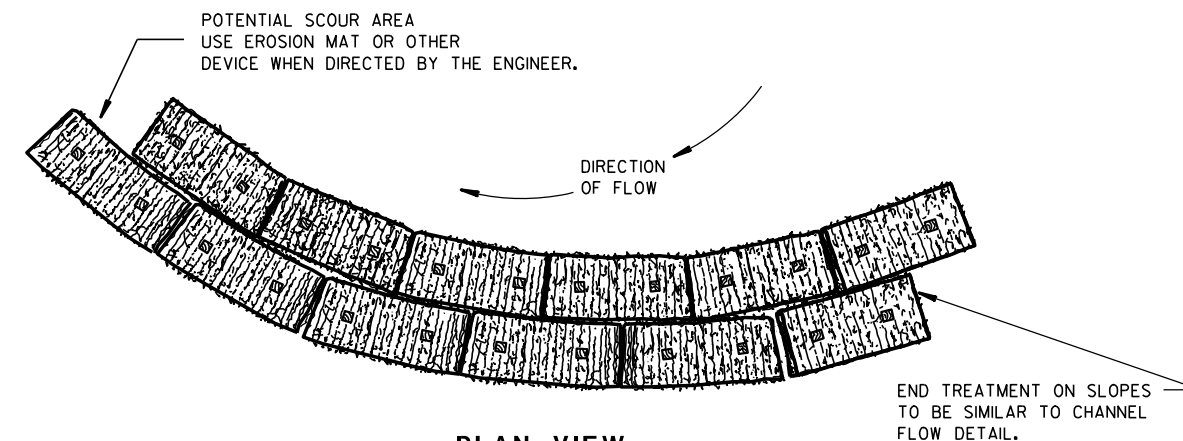
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

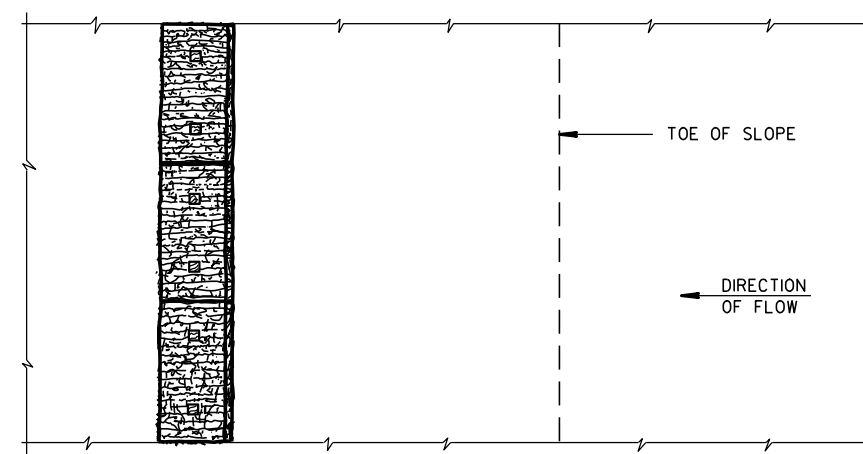
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

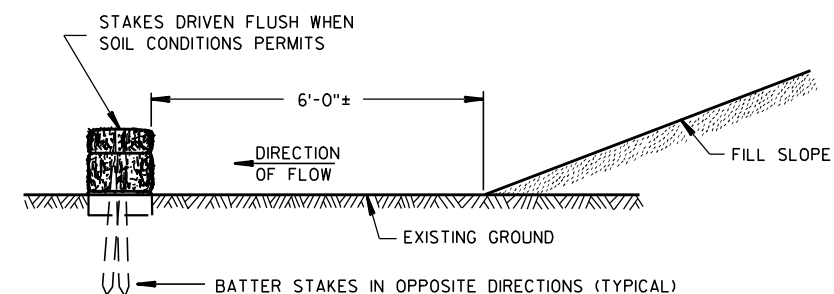


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

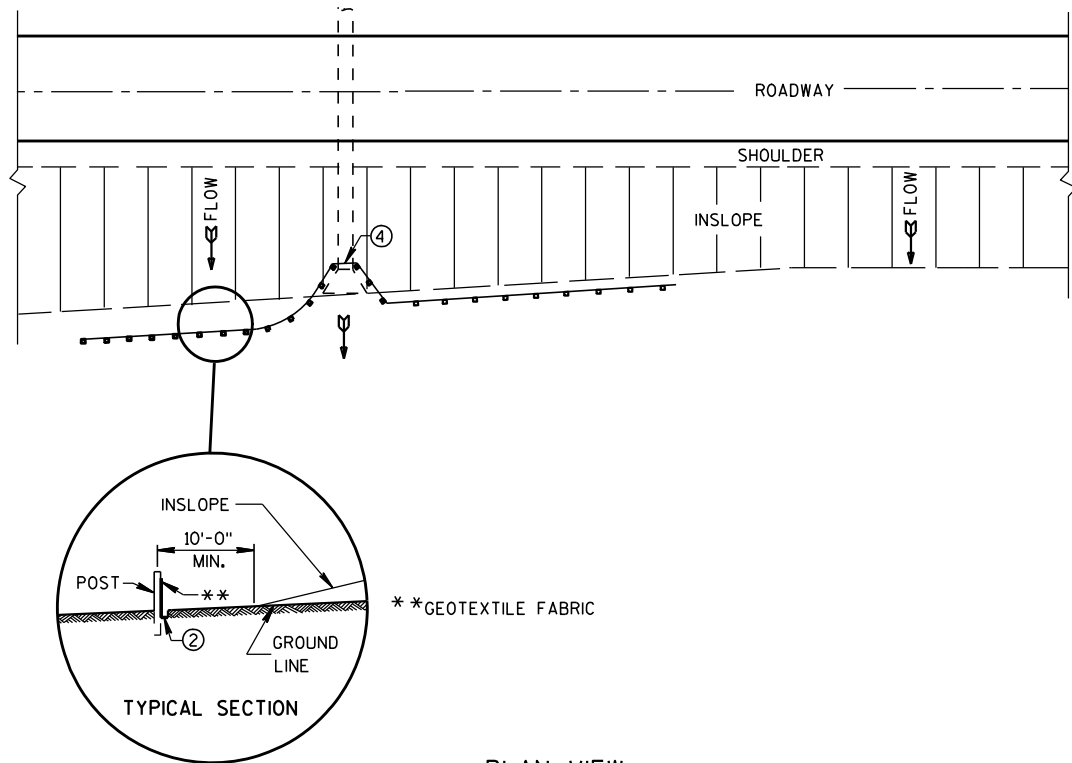
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

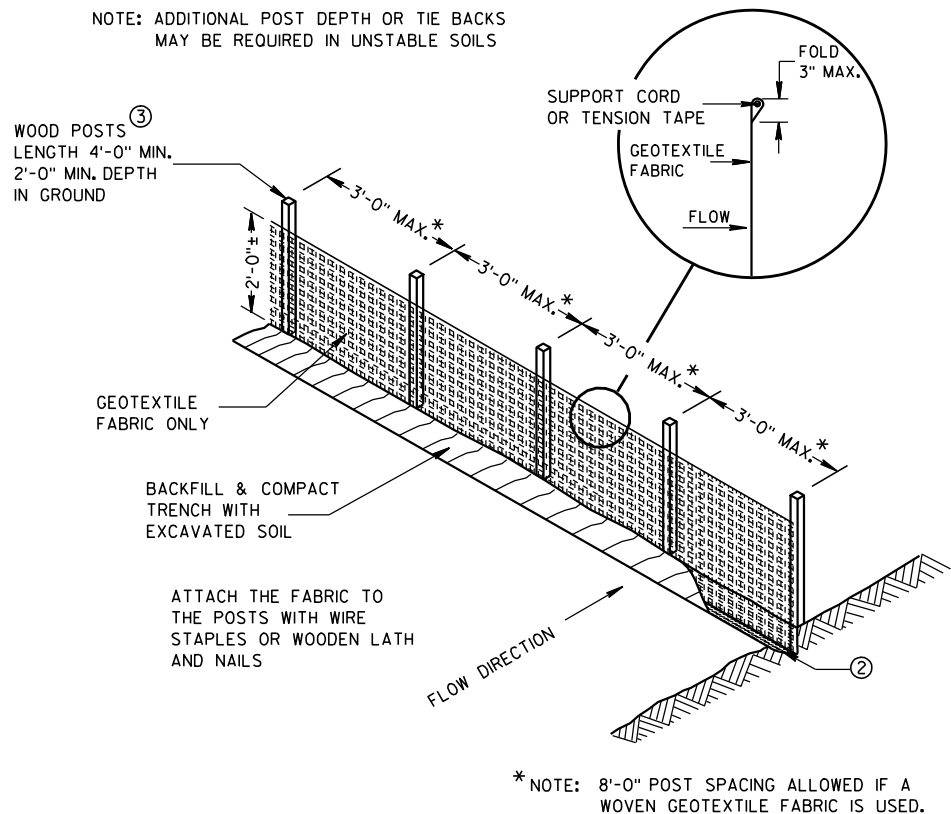
6/04/02
DATE

/S/ Beth Conn-----
CHIEF ROADWAY DEVELOPER 68 ENGINEER

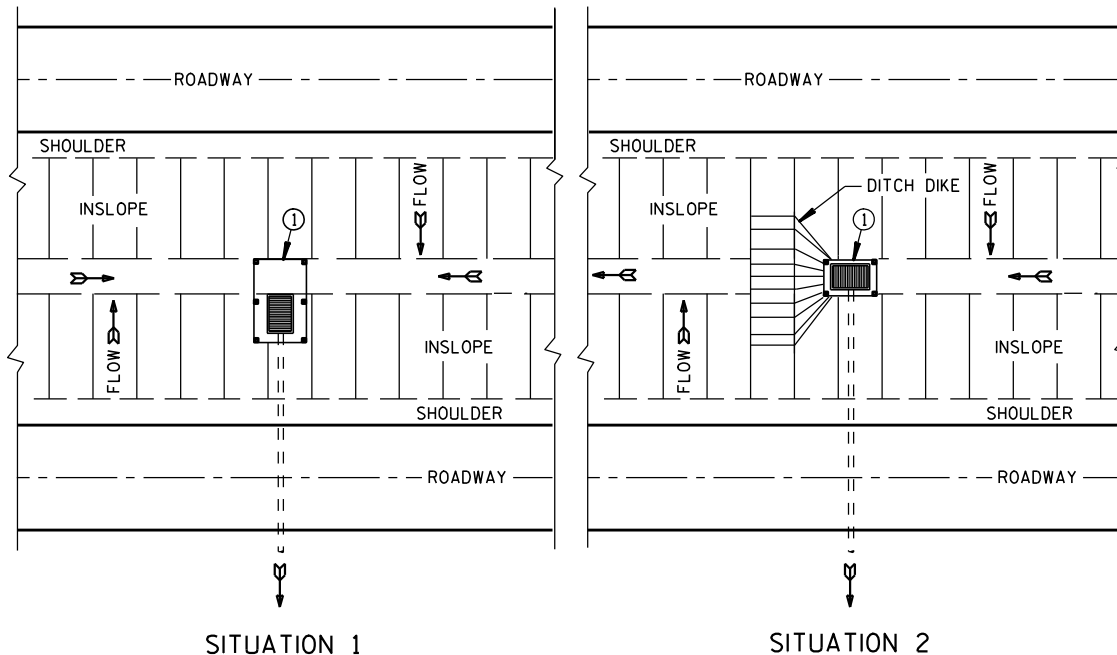
FHWA



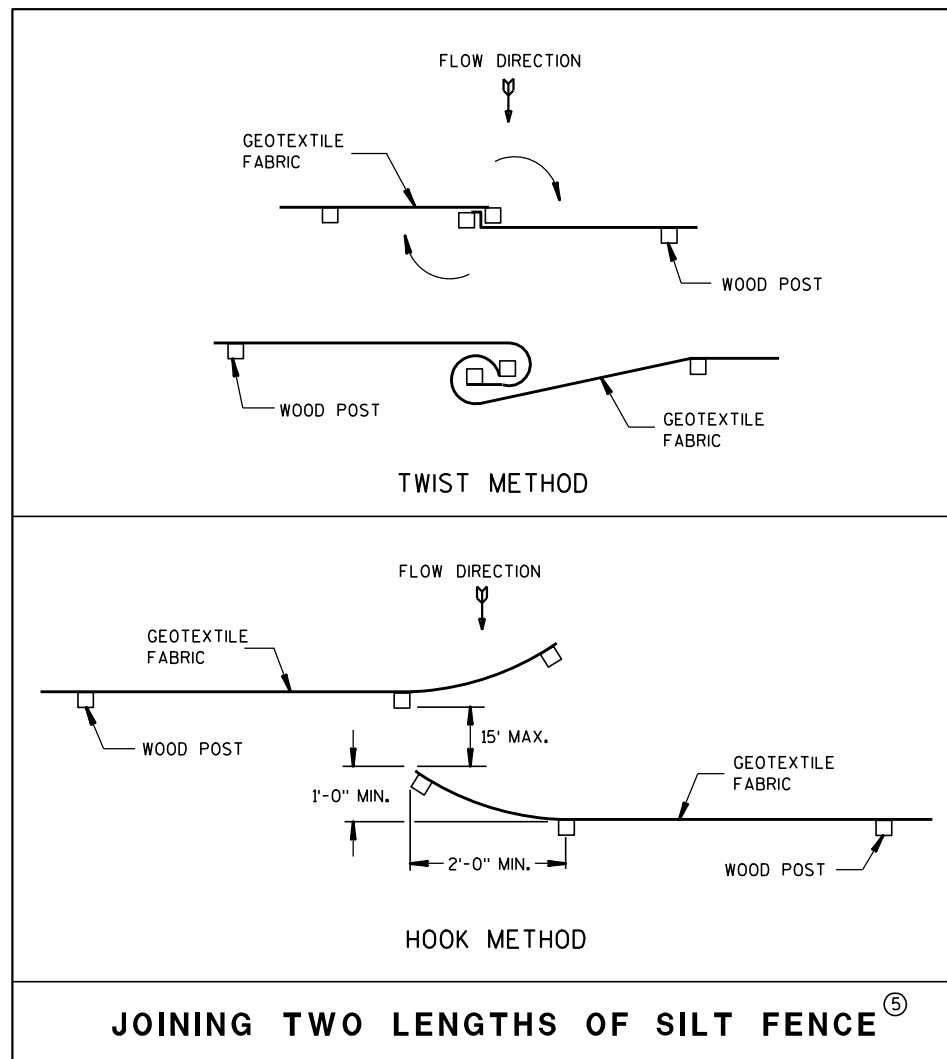
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

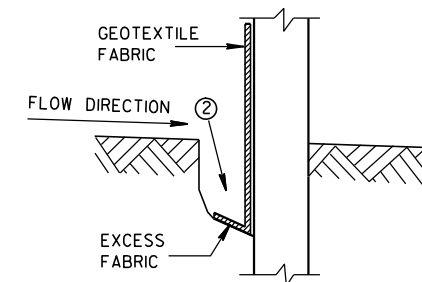


JOINING TWO LENGTHS OF SILT FENCE^⑤

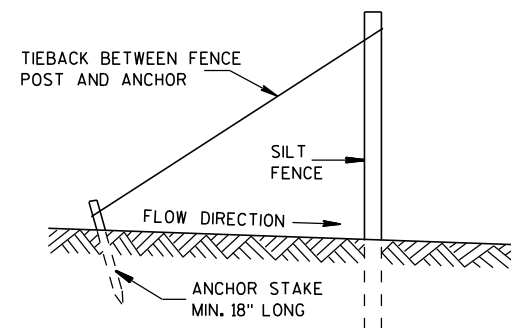
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

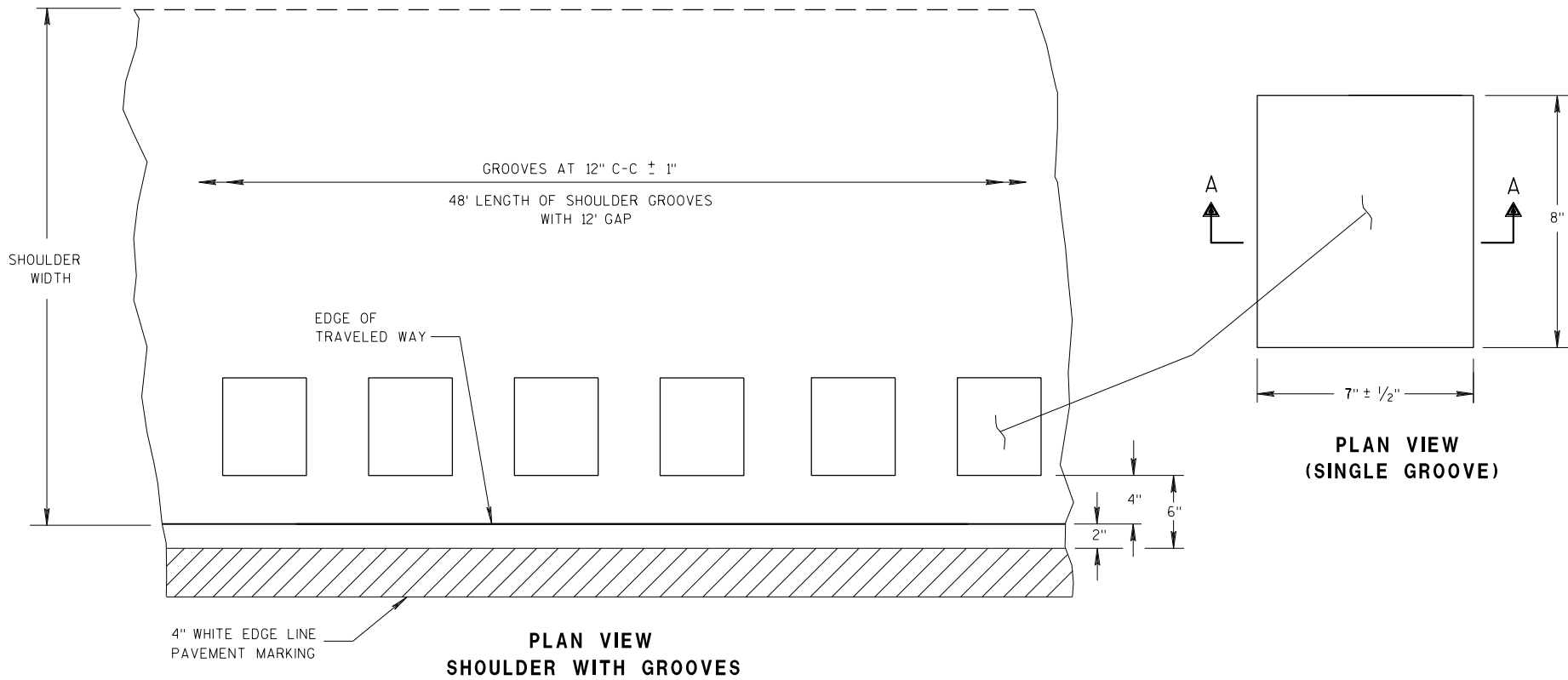


TRENCH DETAIL



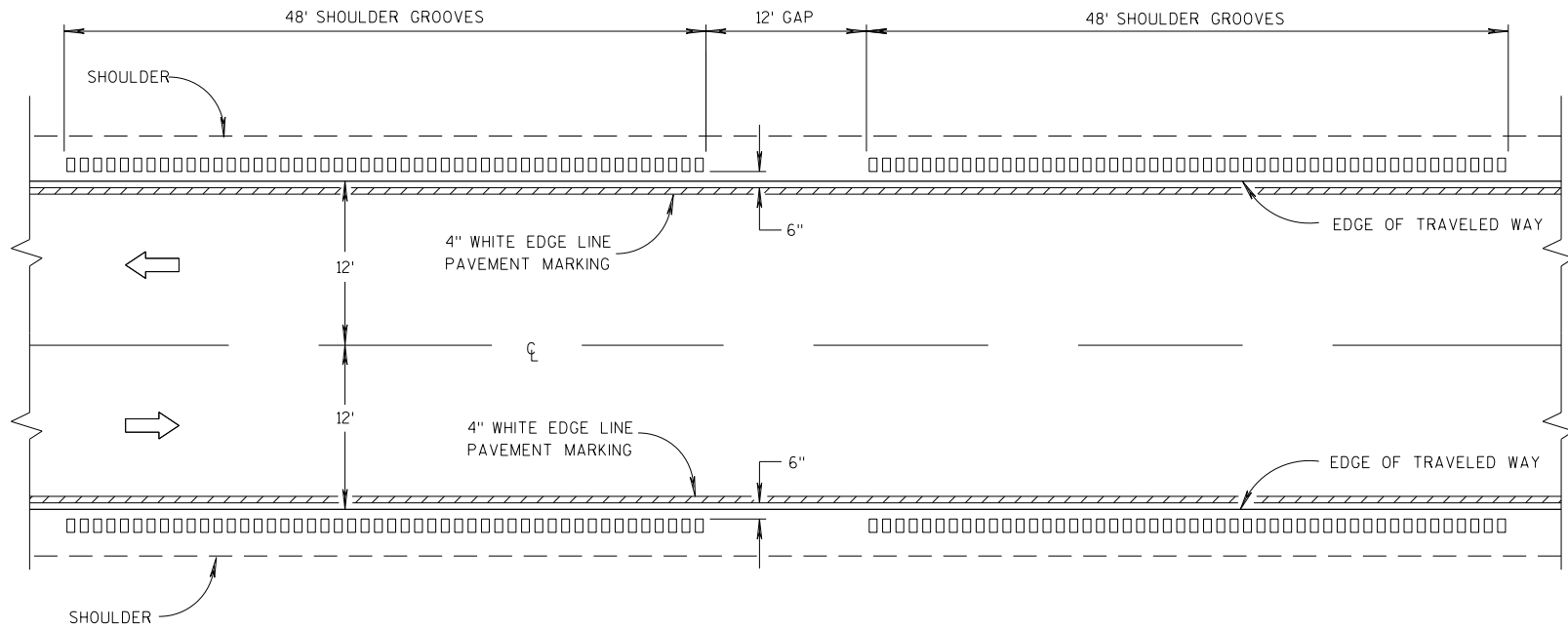
SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Conn CHIEF ROADWAY DEVELOPER 69 ENGINEER
FHWA	



6

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



6

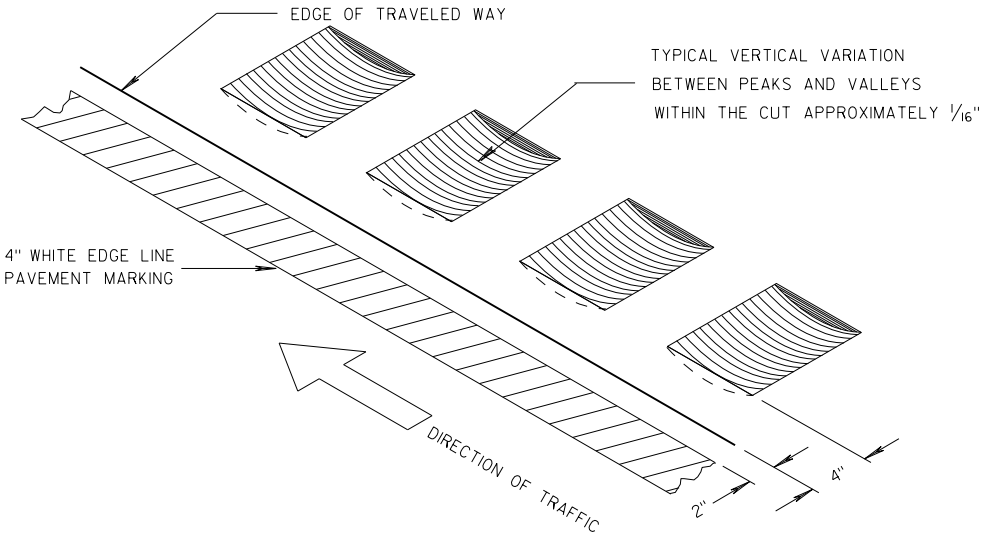
TYPE 1
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

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

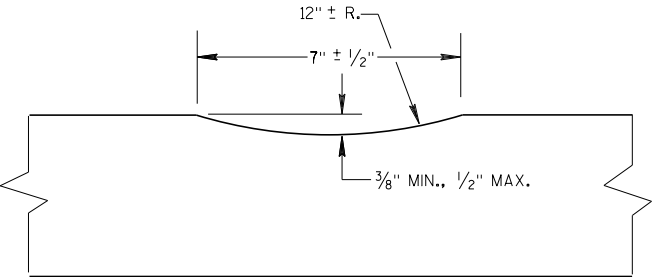
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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



6

ISOMETRIC

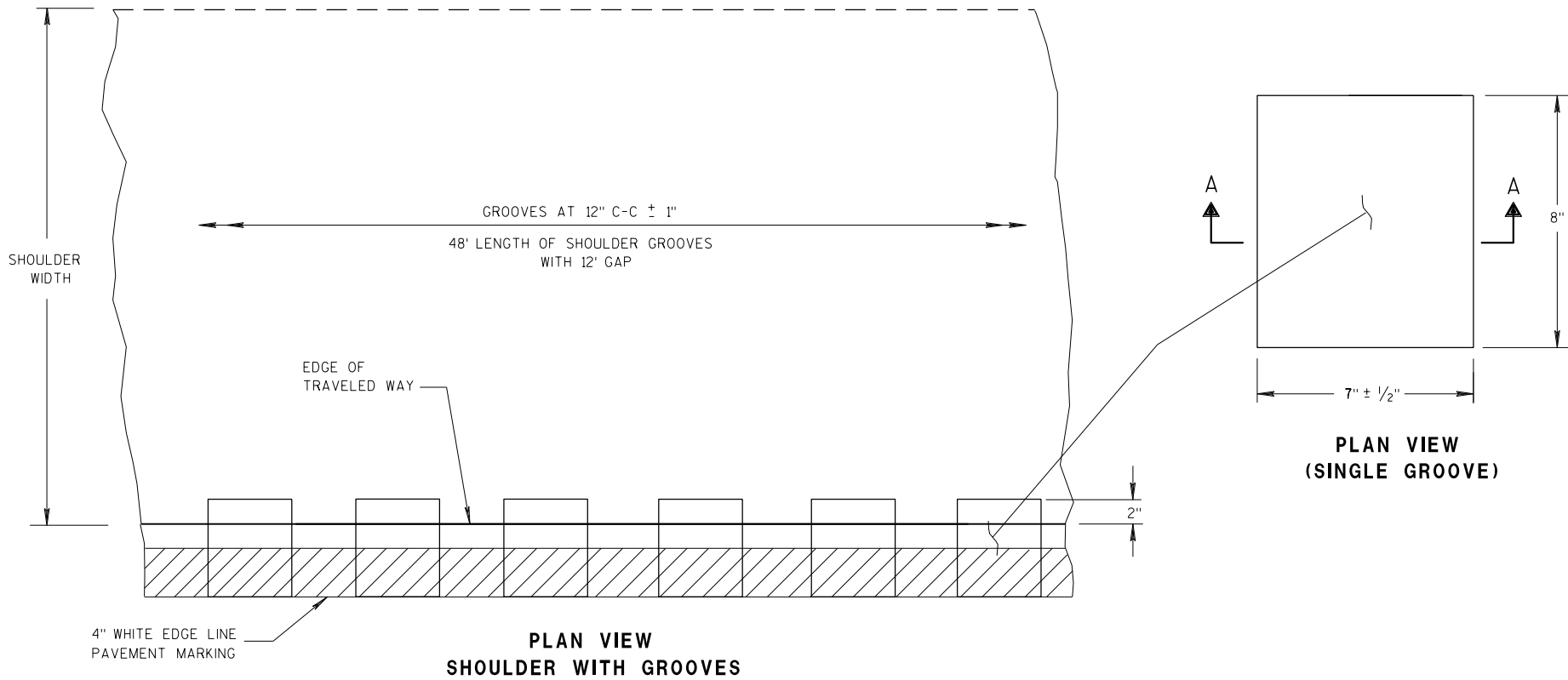


6

SECTION A-A

**2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING**

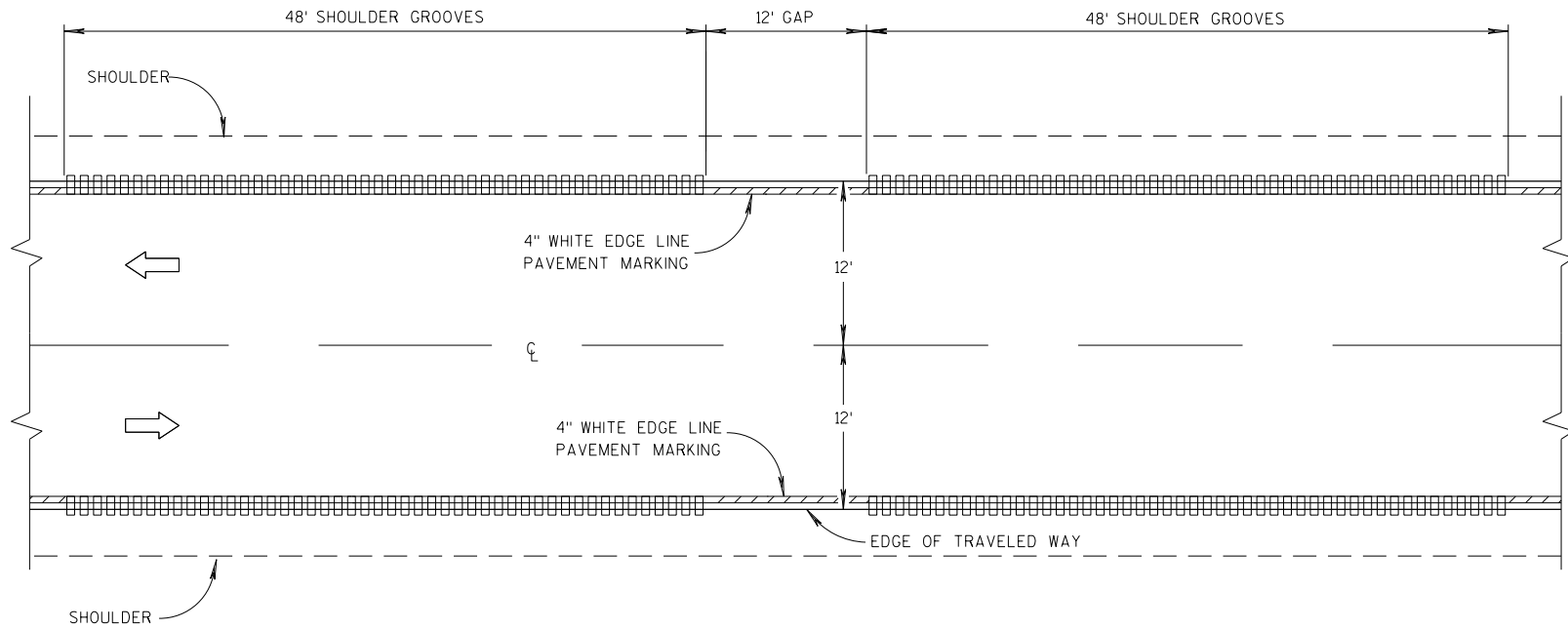
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT, 70



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



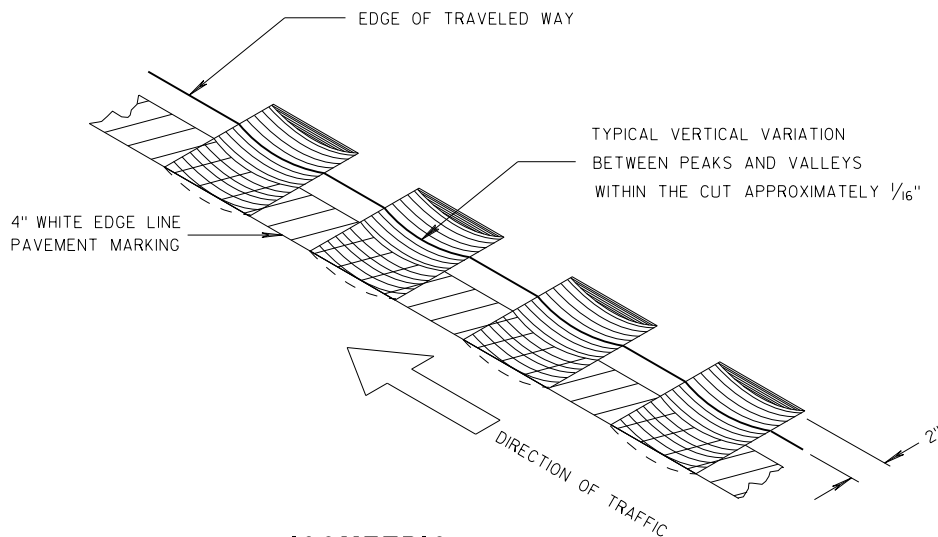
TYPE 2
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

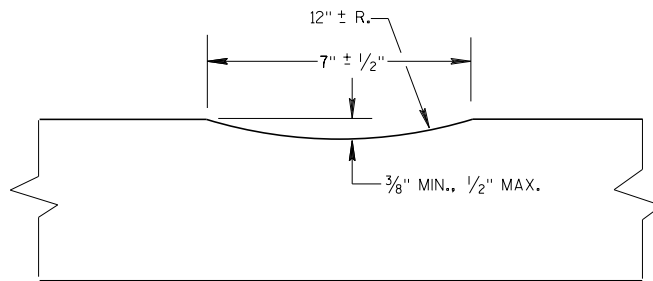
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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



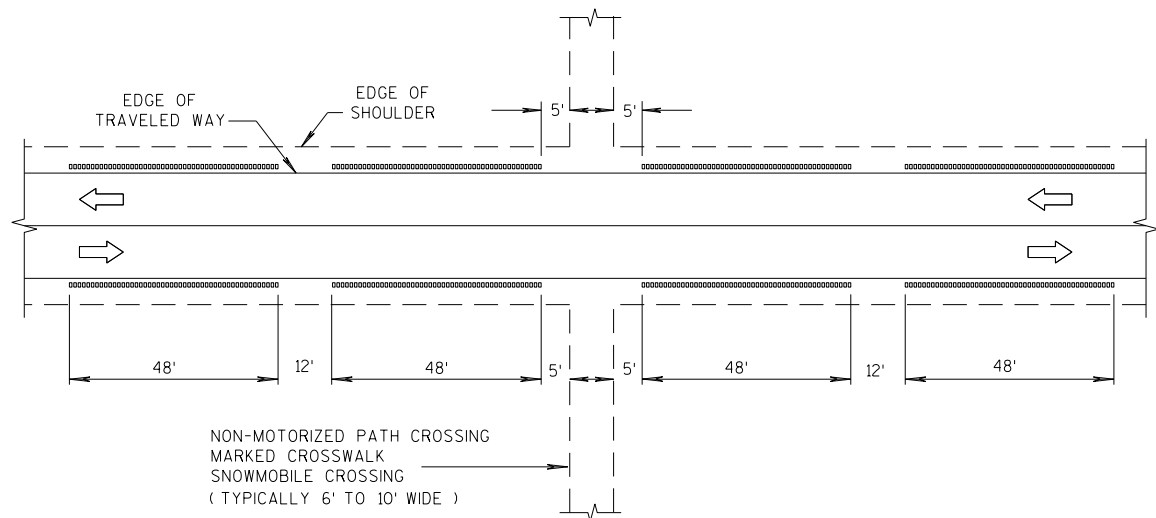
ISOMETRIC



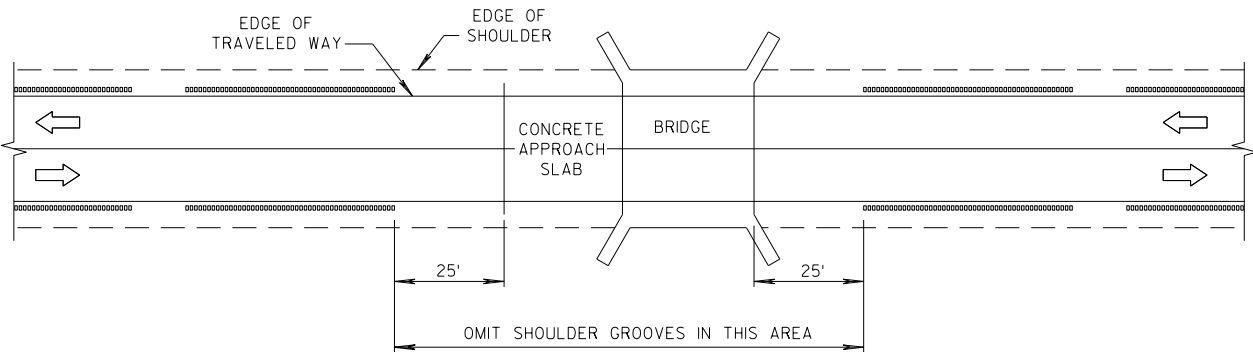
SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

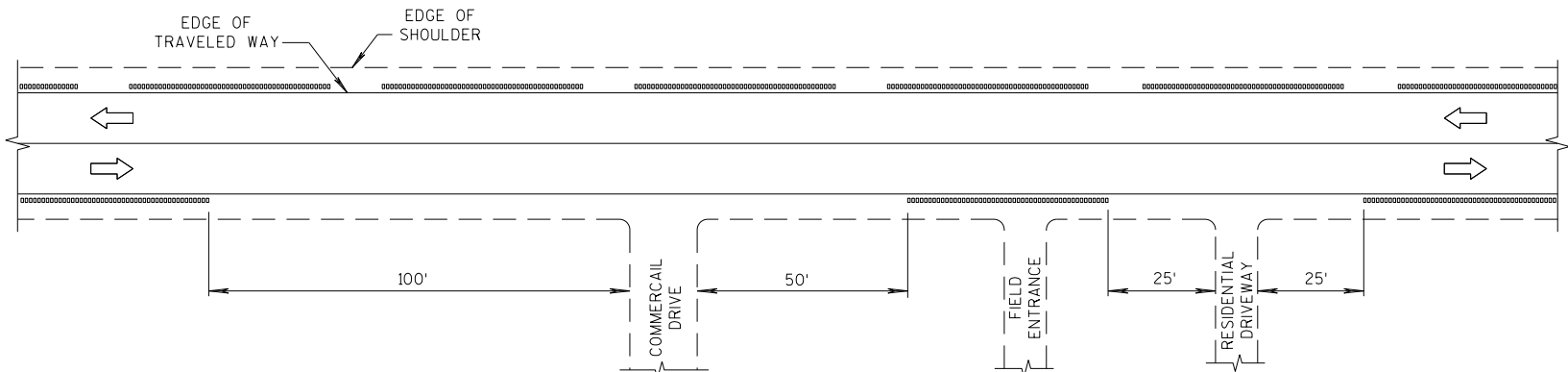
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT, 71



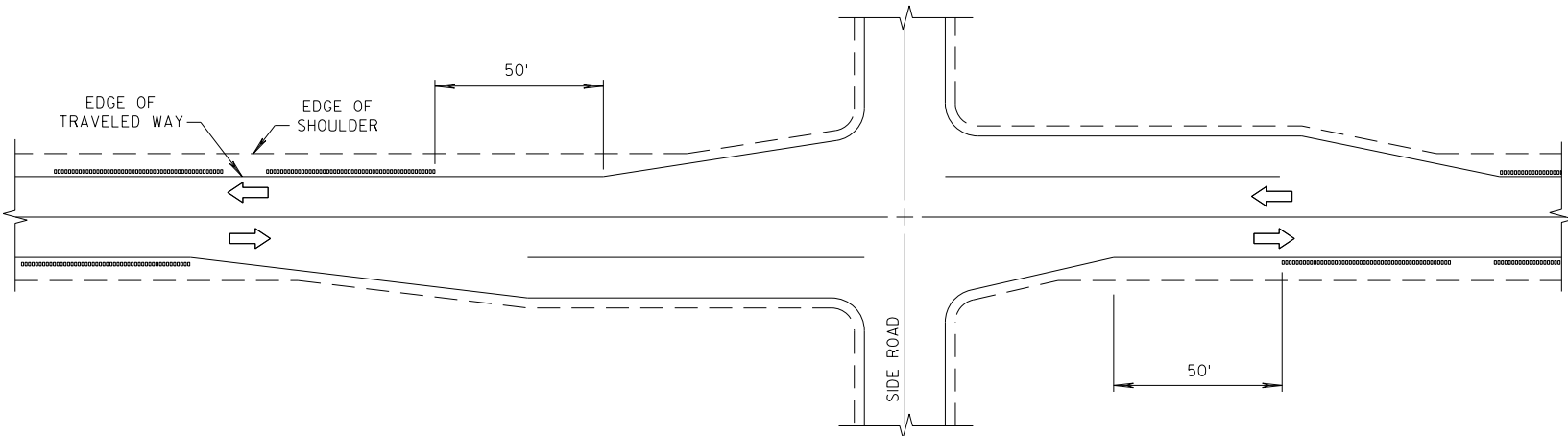
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



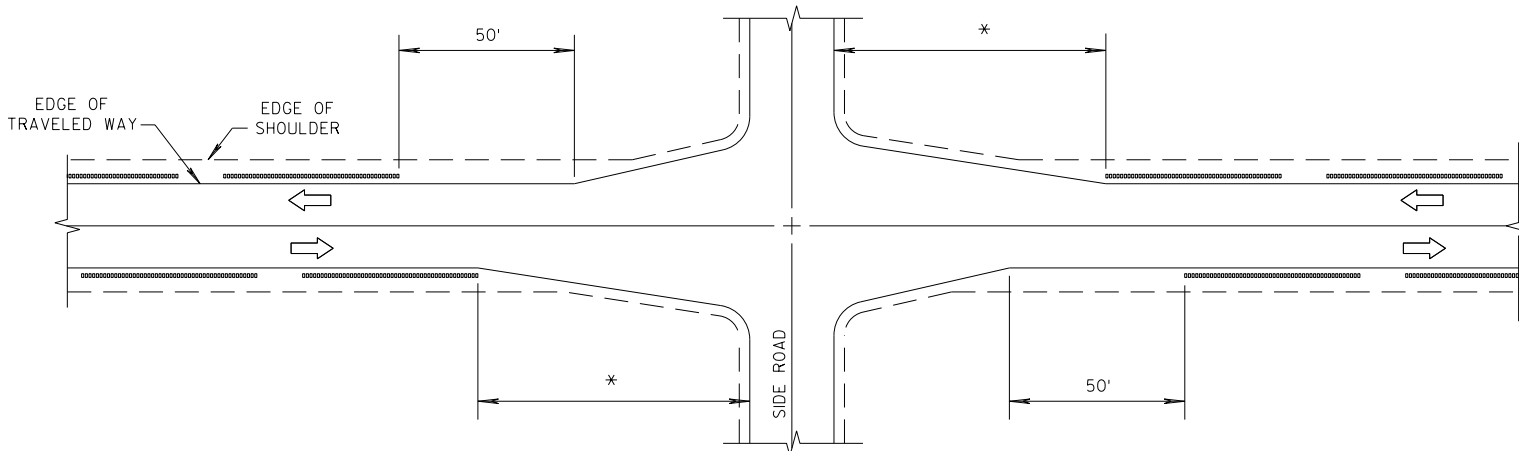
SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT DRIVEWAYS¹



SHOULDER GROOVES AT WITH RIGHT TURN LANE

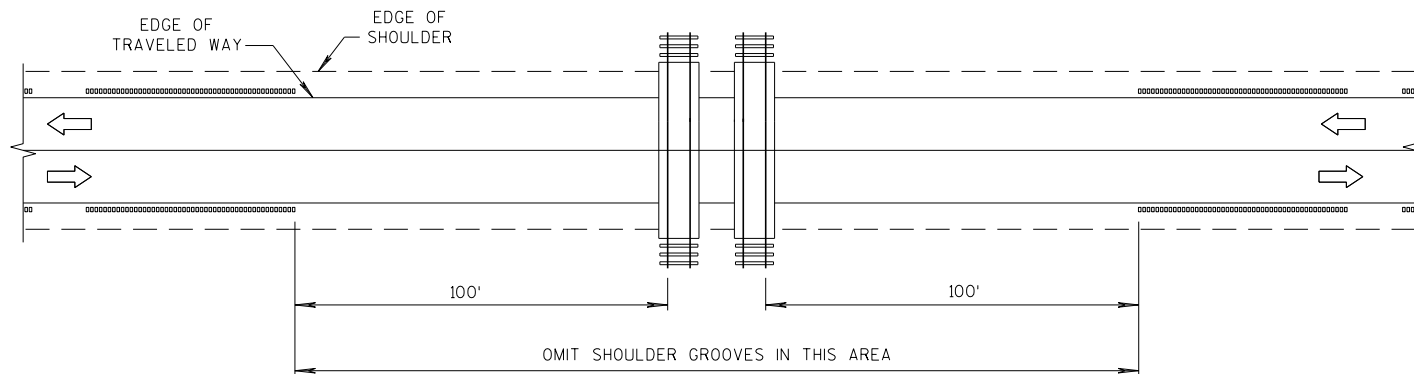


SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER

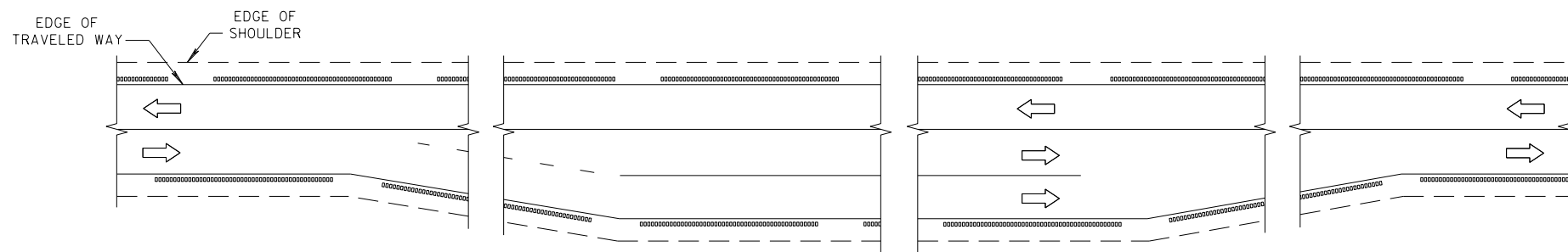
* GREATER OF 100' OR APPROACH TAPER LENGTH

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

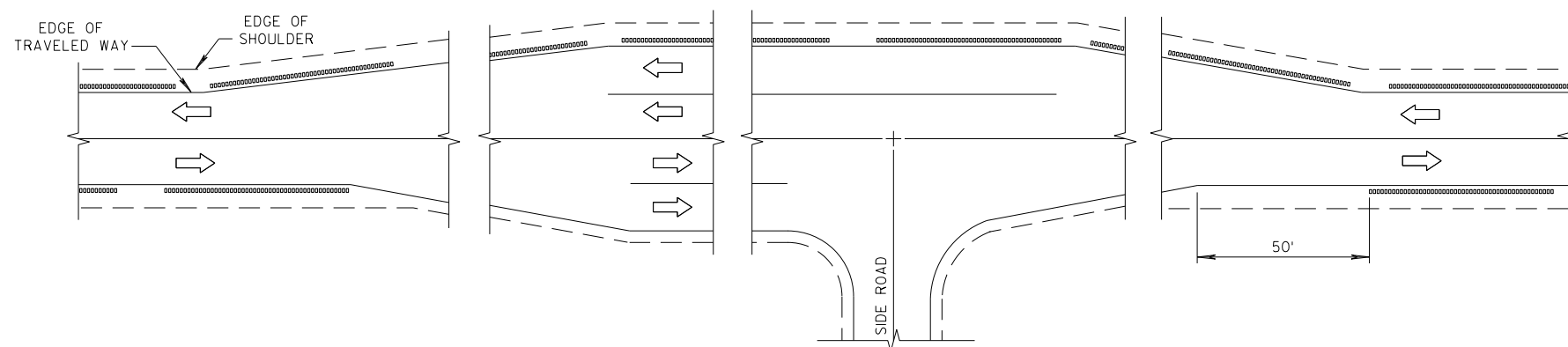
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT, 72



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

**2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

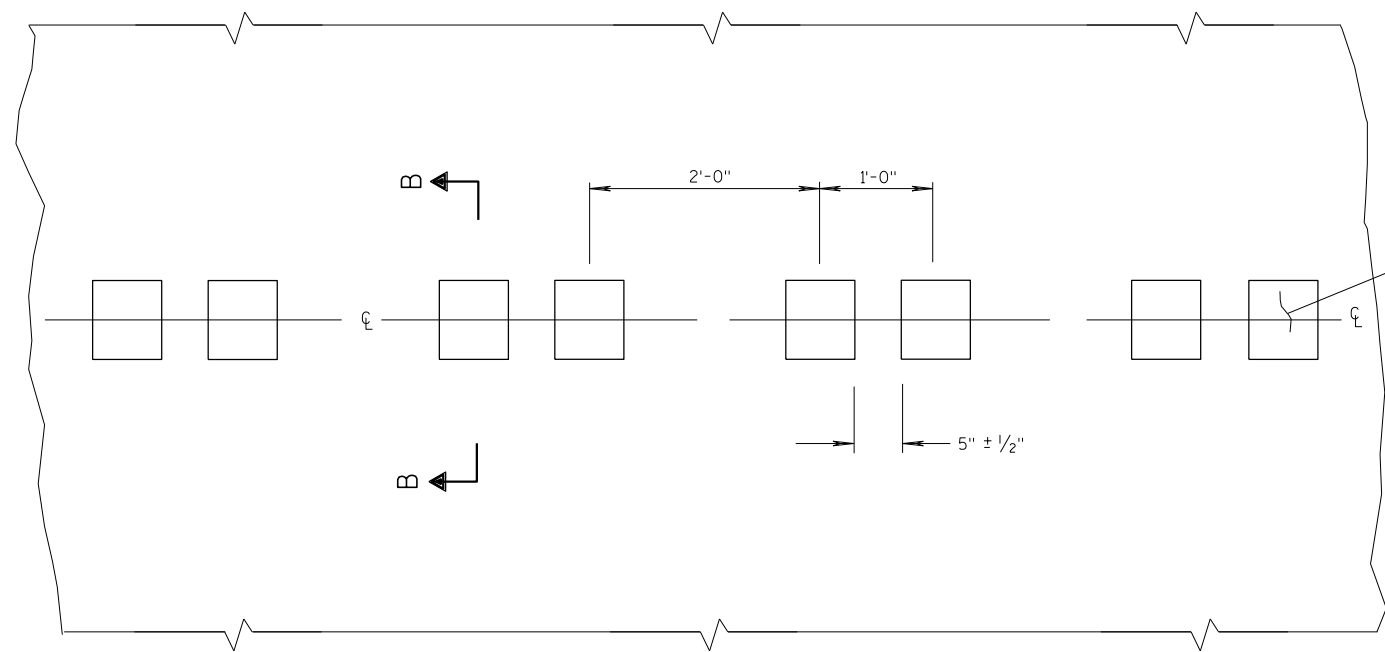
APPROVED

7/2018
DATE

FHWA

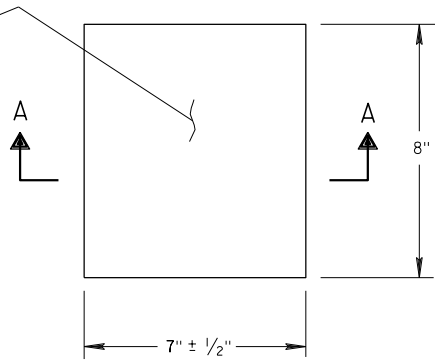
/S/ Rodney Taylor
ROADWAY STANDARDS DEV
UNIT SUPERVISOR

73



PLAN VIEW
CENTER LINE WITH GROOVES

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

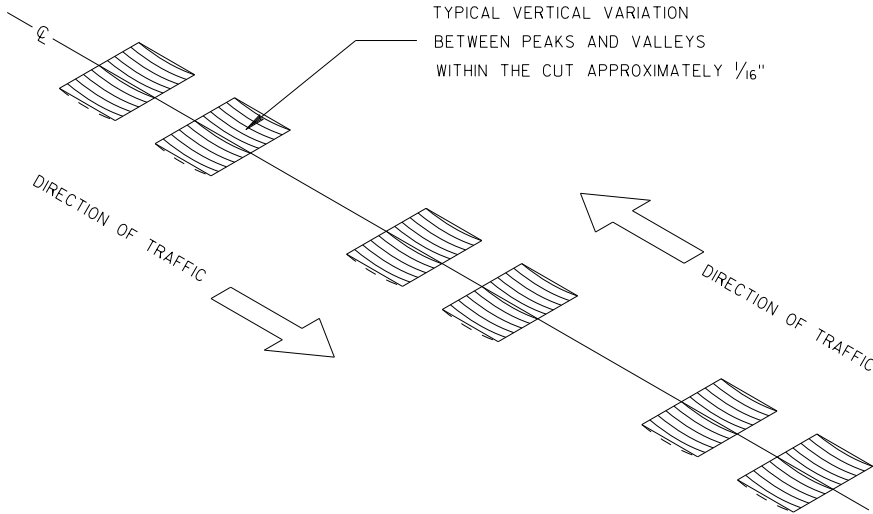
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

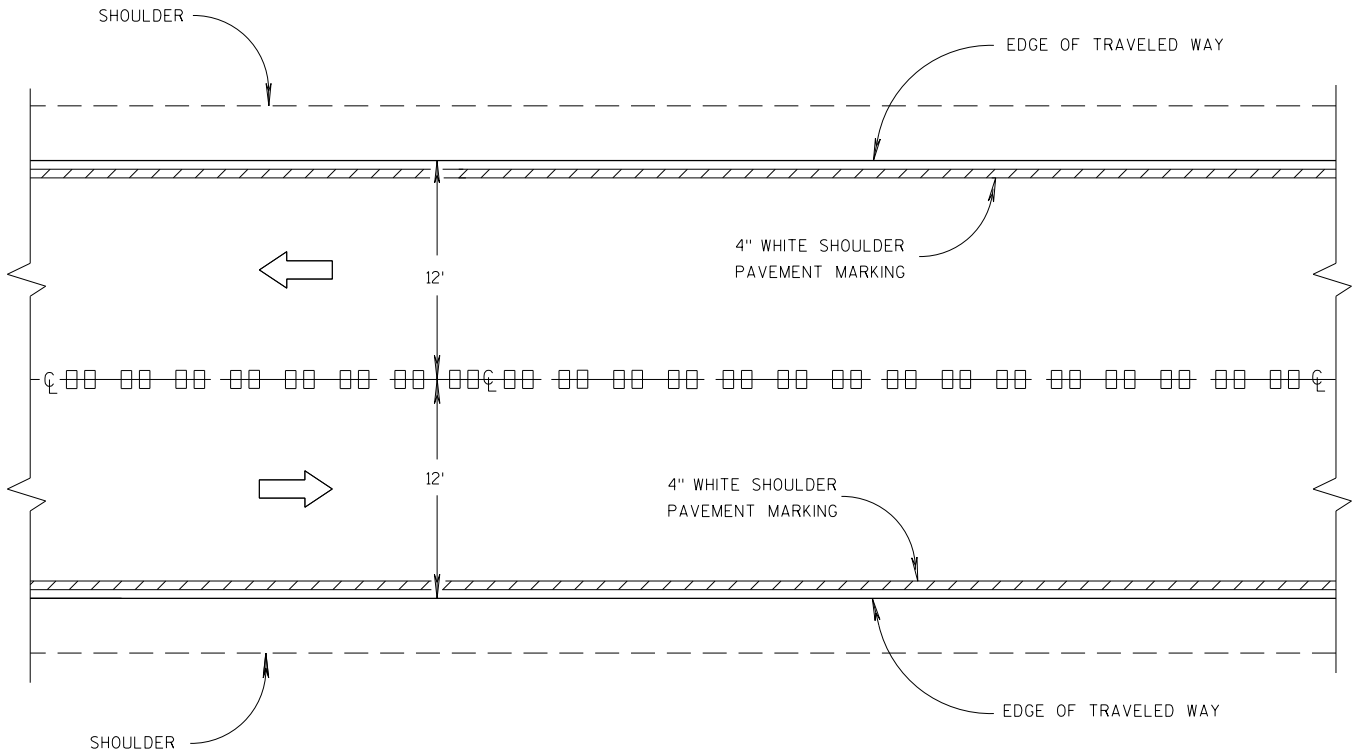
INSTALL PERMANENT MARKING EPOXY 4-INCH AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

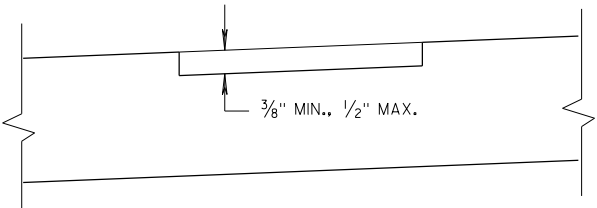
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



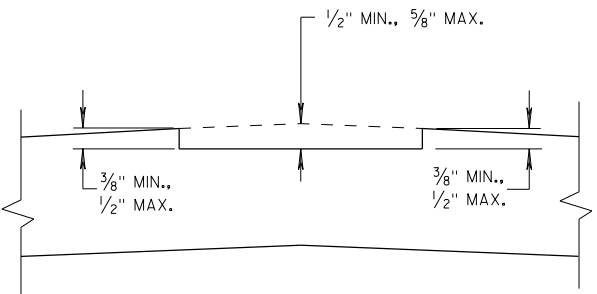
ISOMETRIC



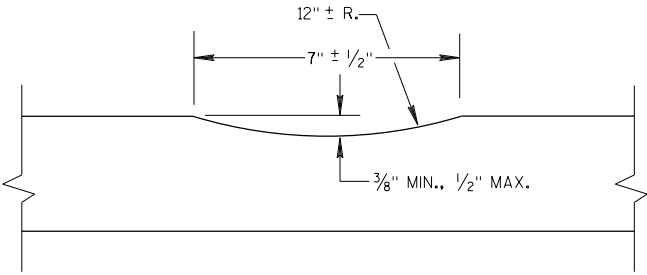
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



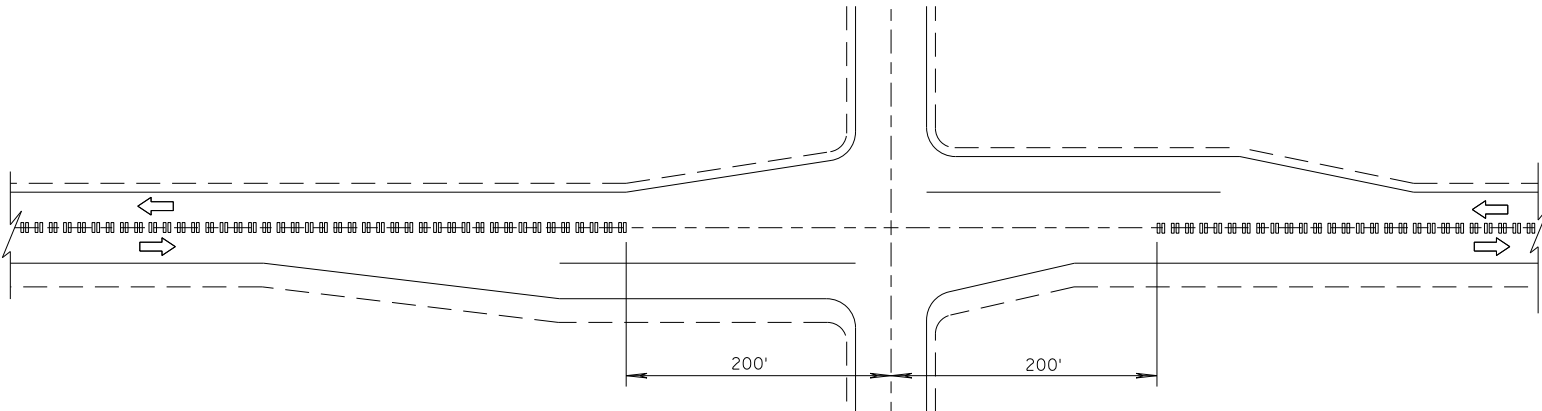
SECTION B-B
CROWNED ROADWAY



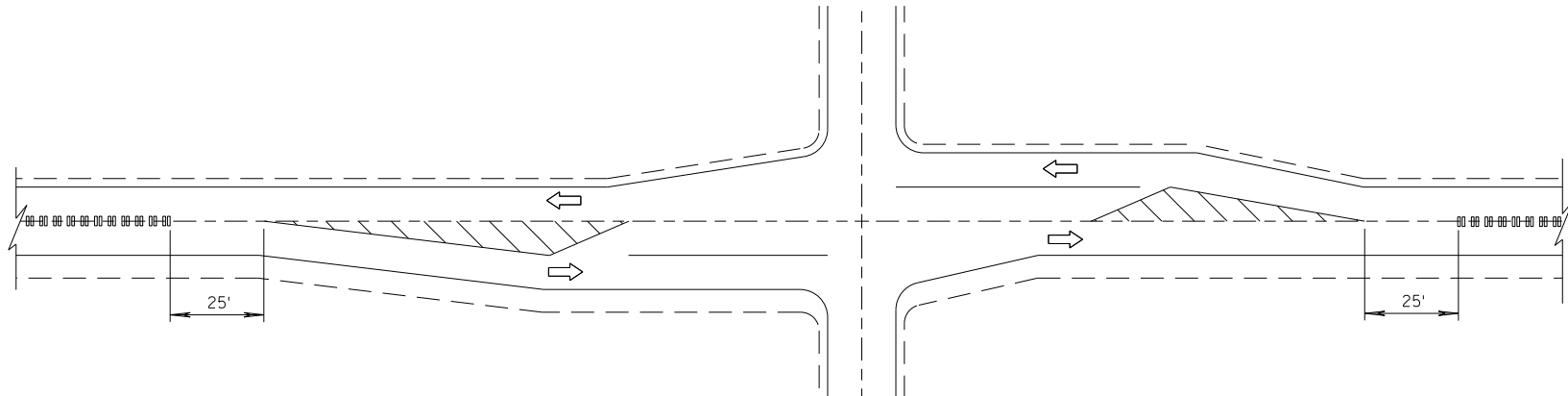
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

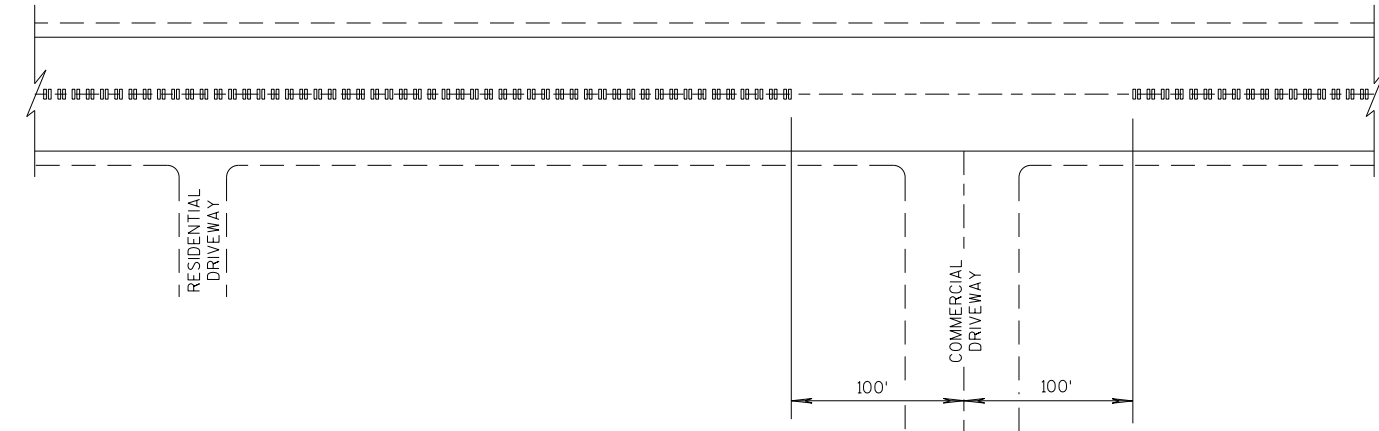
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 74



CENTER LINE GROOVES AT INTERSECTIONS



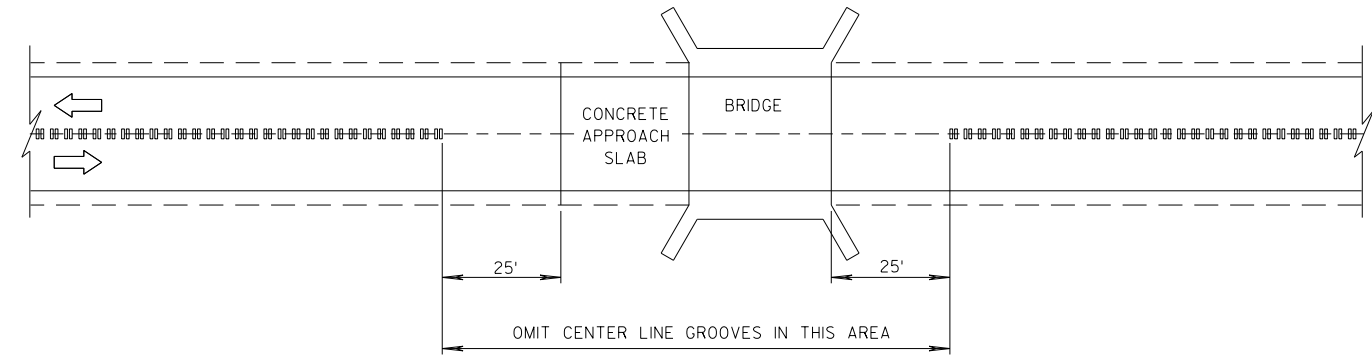
CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)



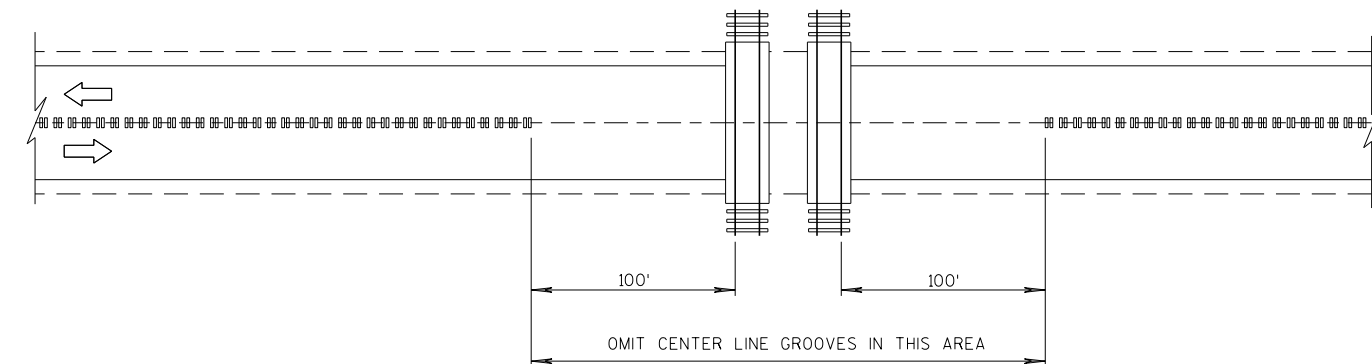
CENTER LINE GROOVES AT DRIVEWAYS

1

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

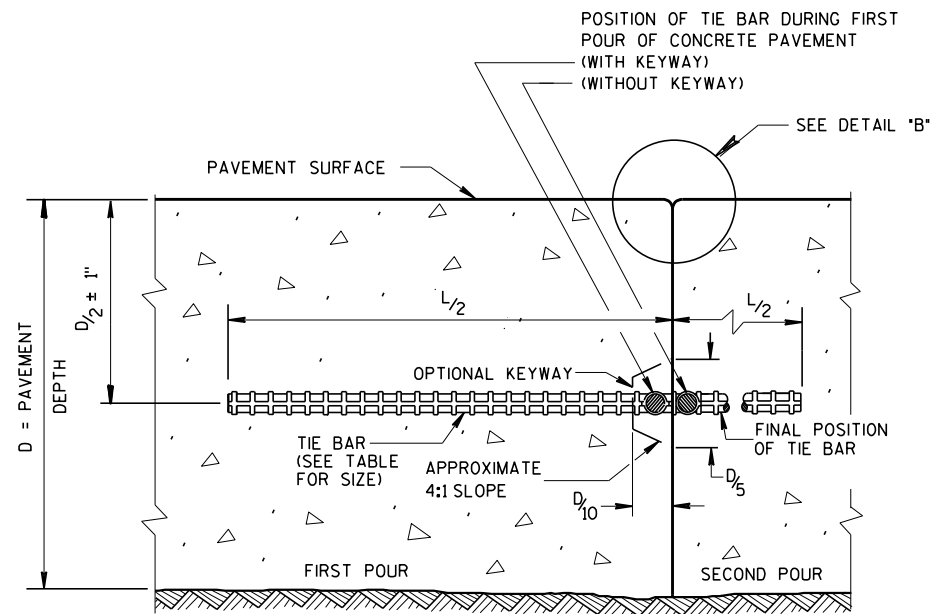


CENTER LINE GROOVES AT BRIDGES

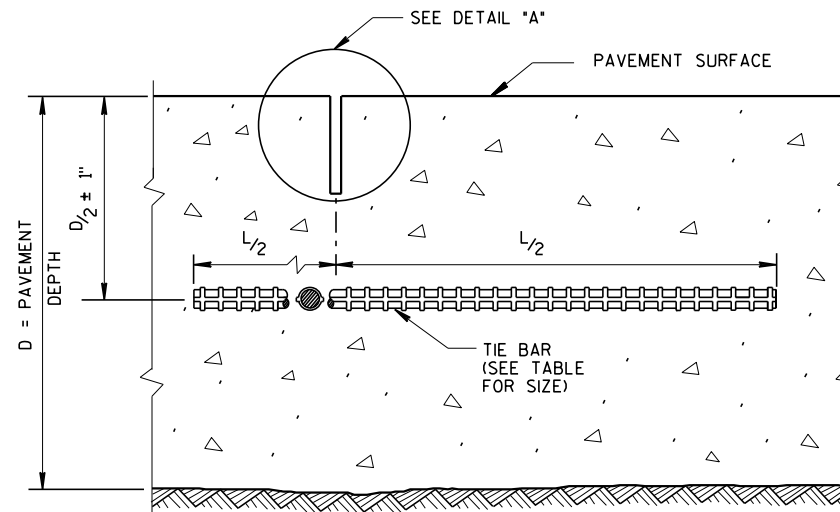


CENTER LINE GROOVES AT RAILROADS

2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED 7/2018 DATE	/S/ Rodney T. ROADWAY STANDARDS DE UNIT SUPERVISOR	IT
FHWA		



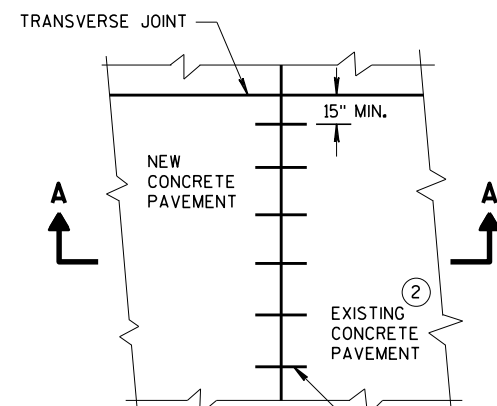
CONSTRUCTION JOINT



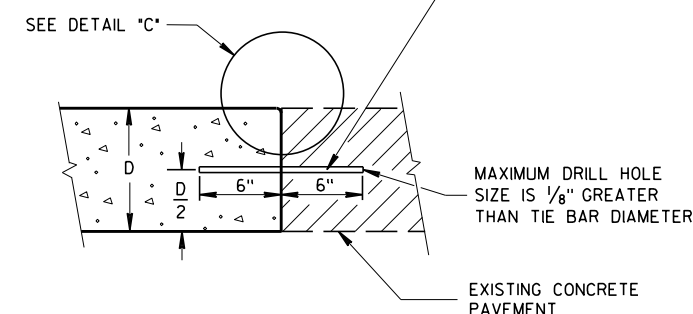
SAWED JOINT

GENERAL NOTES

- CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.
- CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.
- 1 ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
 - 2 PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

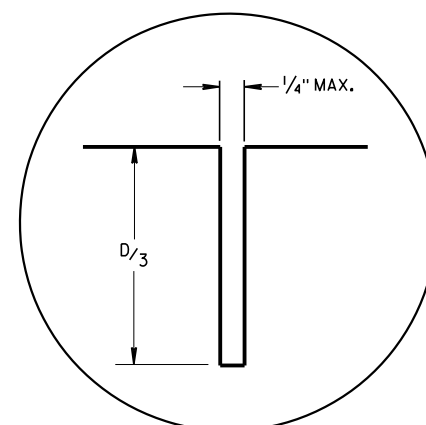


PLAN VIEW

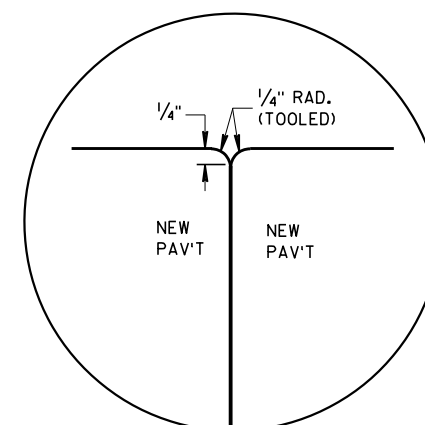


SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT
TIE BARS ANCHORED
INTO EXISTING PAVEMENT

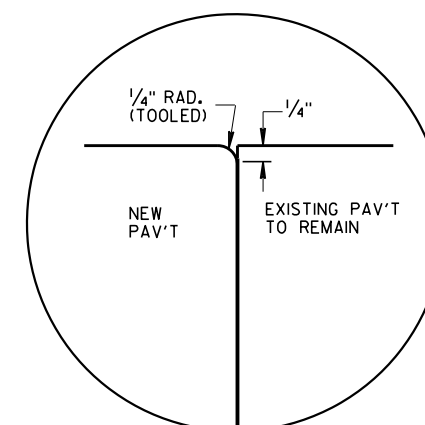
NO. 6 TIE BARS SPACED 30" C-C, INSTALLED PERPENDICULAR TO THE LONGITUDINAL JOINT. ①



DETAIL "A"



DETAIL "B"



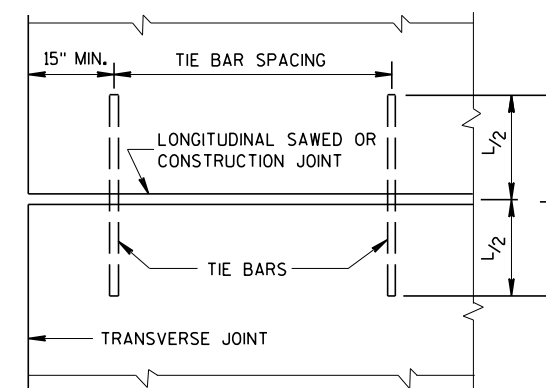
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
$< 10 \frac{1}{2}"$	NO. 4	30"	36"
$\geq 10 \frac{1}{2}"$	NO. 5	36"	36"
	NO. 4 *	30"	24" **

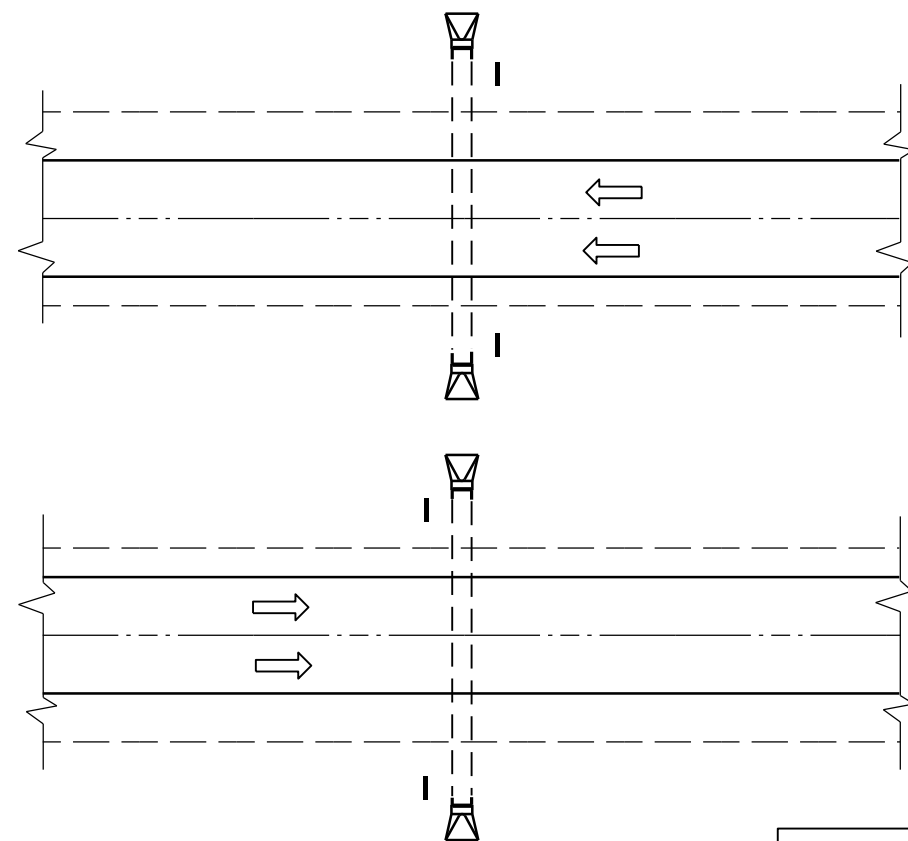
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

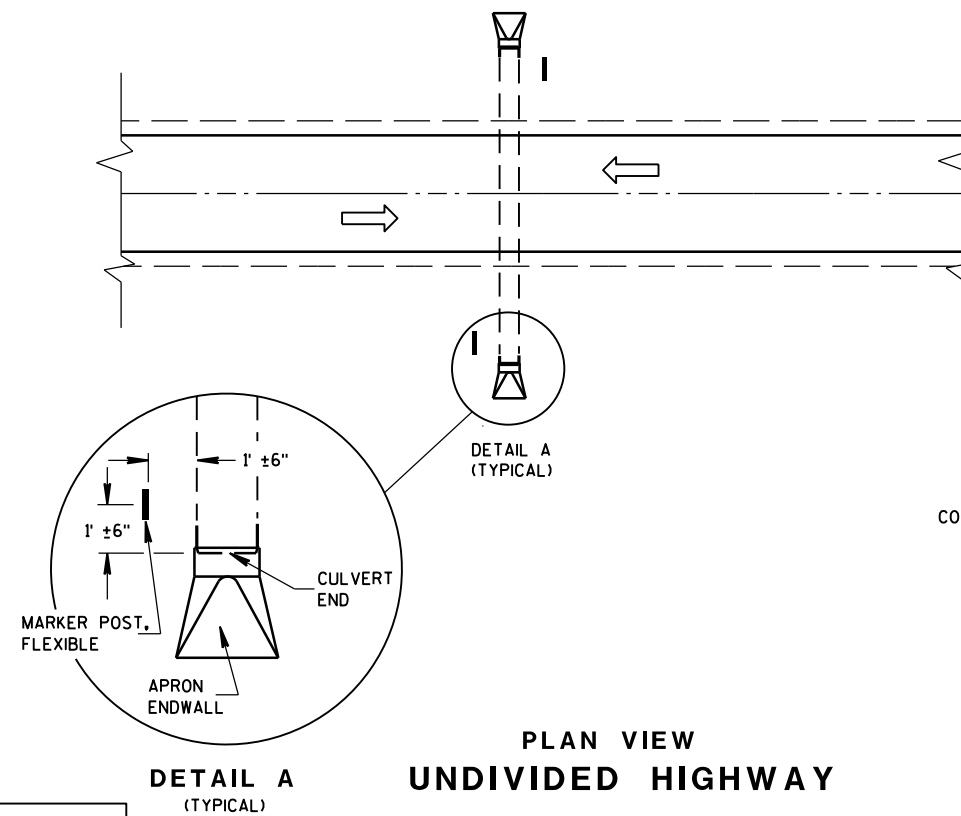
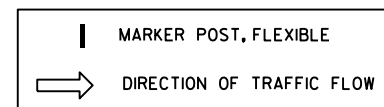


PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED March 2018 DATE	/S/ Peter Kern PAVEMENT SUPE 76
FHWA	



PLAN VIEW
DIVIDED HIGHWAY

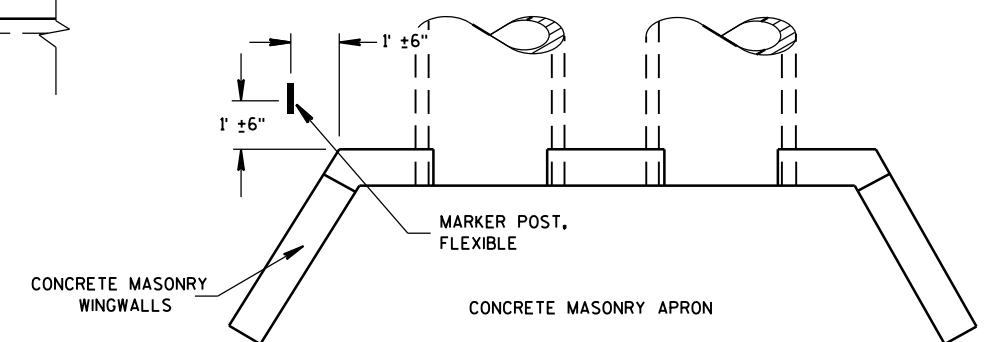


PLAN VIEW
UNDIVIDED HIGHWAY

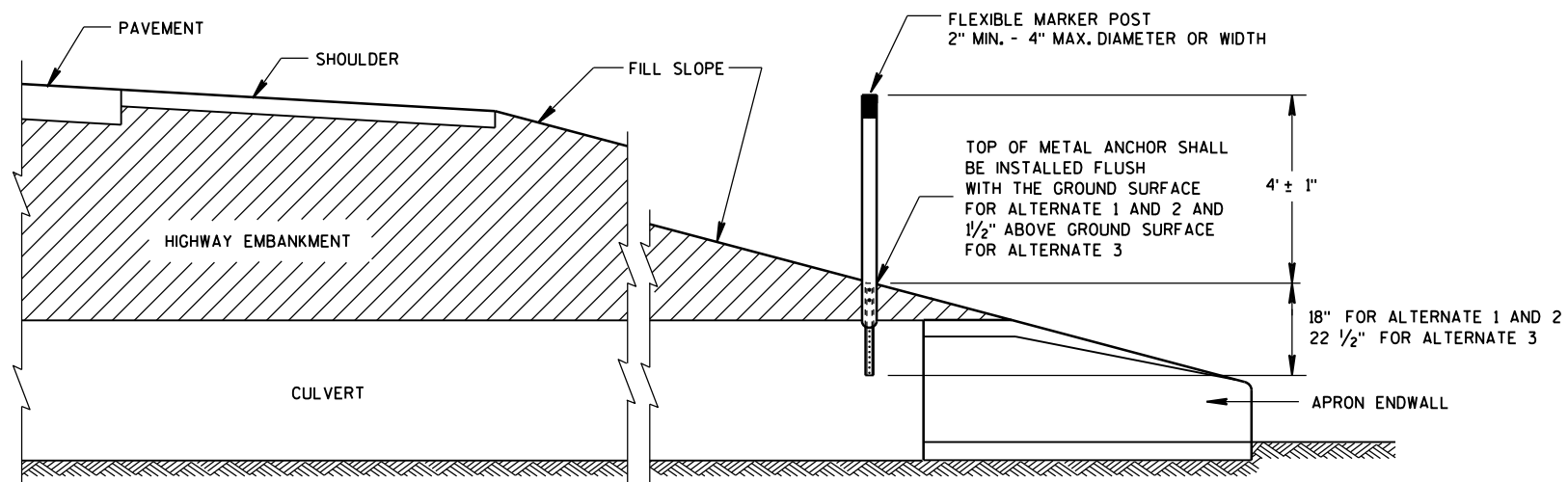
FLEXIBLE MARKER POST LOCATION

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.



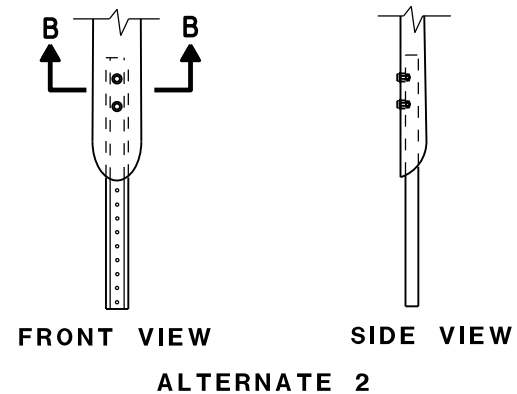
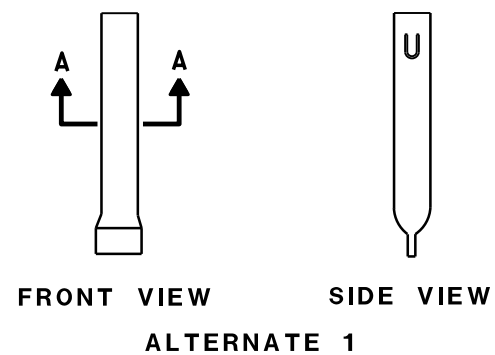
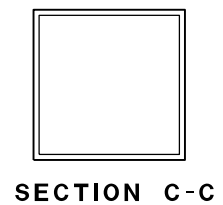
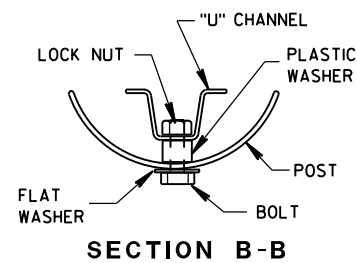
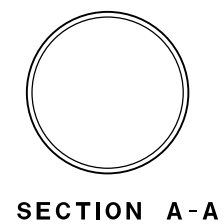
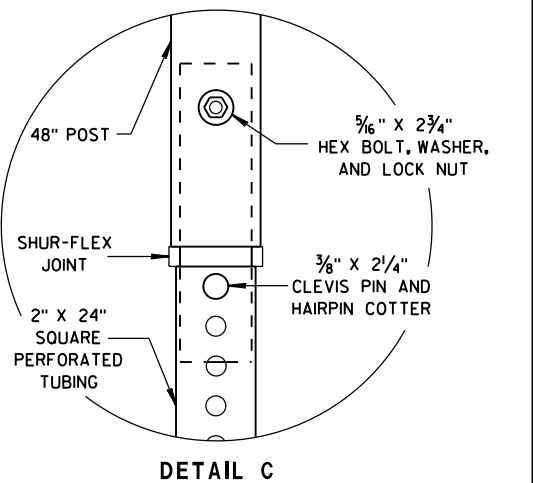
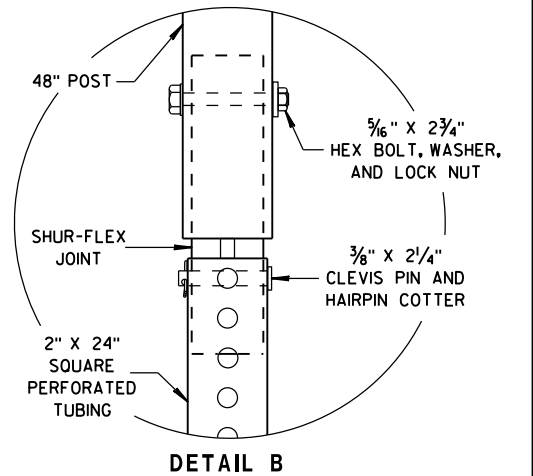
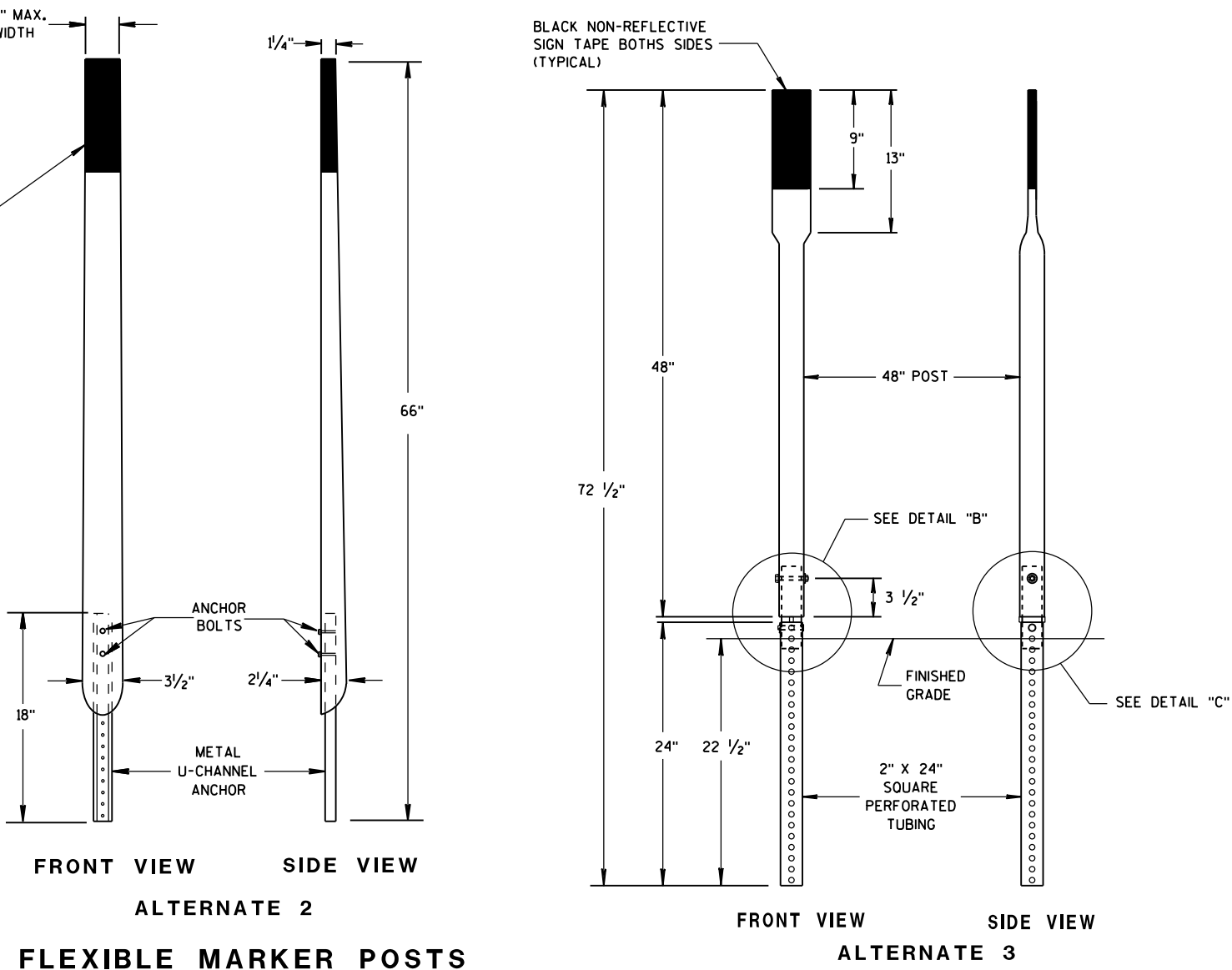
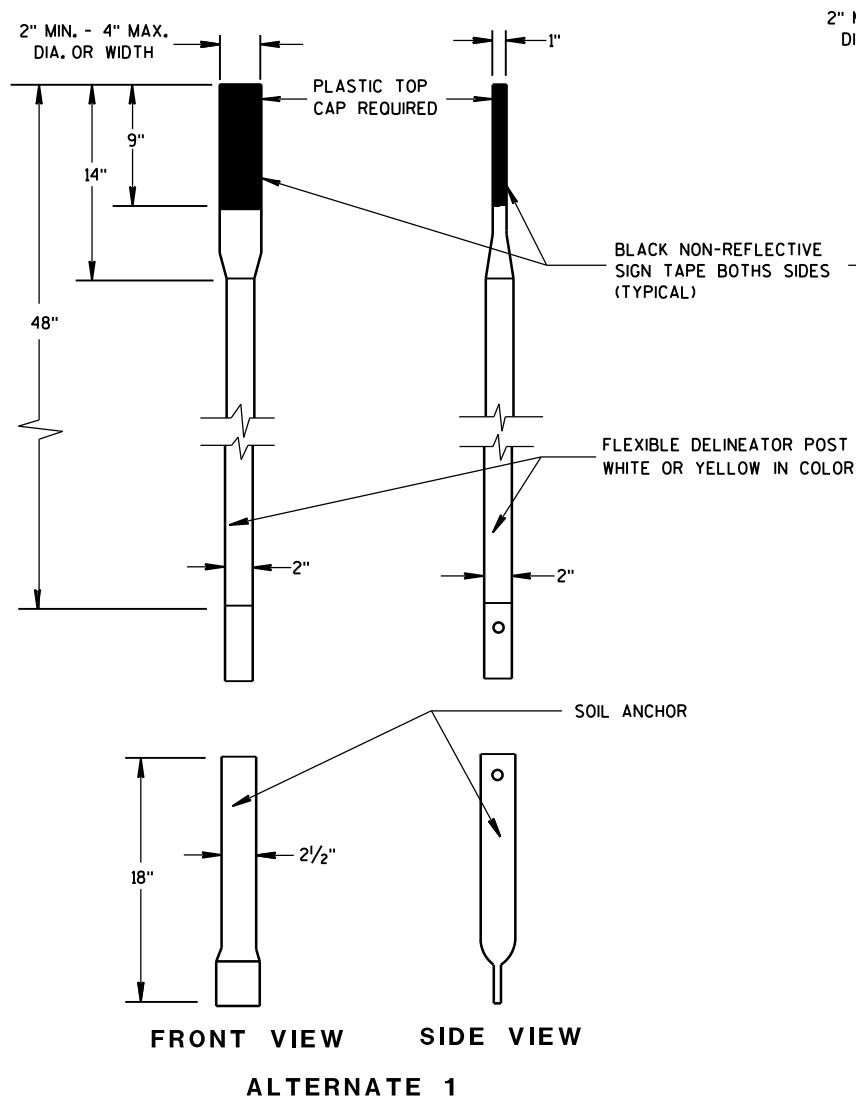
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



CROSS SECTION
FLEXIBLE MARKER POST

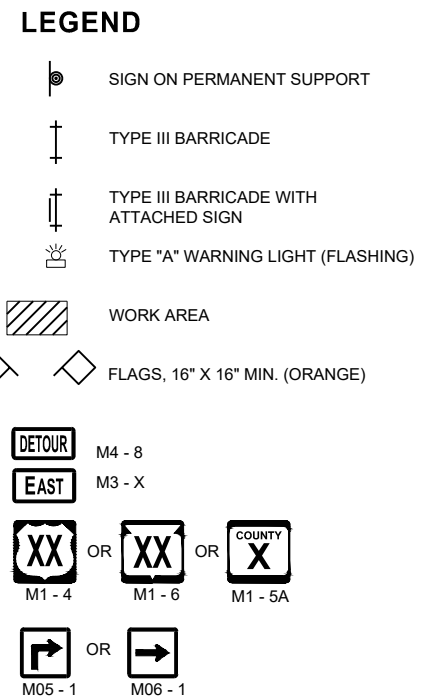
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE MARKER POST ANCHORS

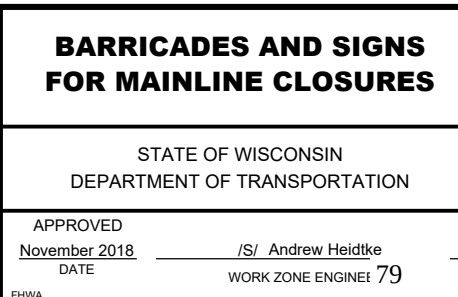
FLEXIBLE MARKER POST FOR CULVERT END		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER 78	IGN
FHWA		

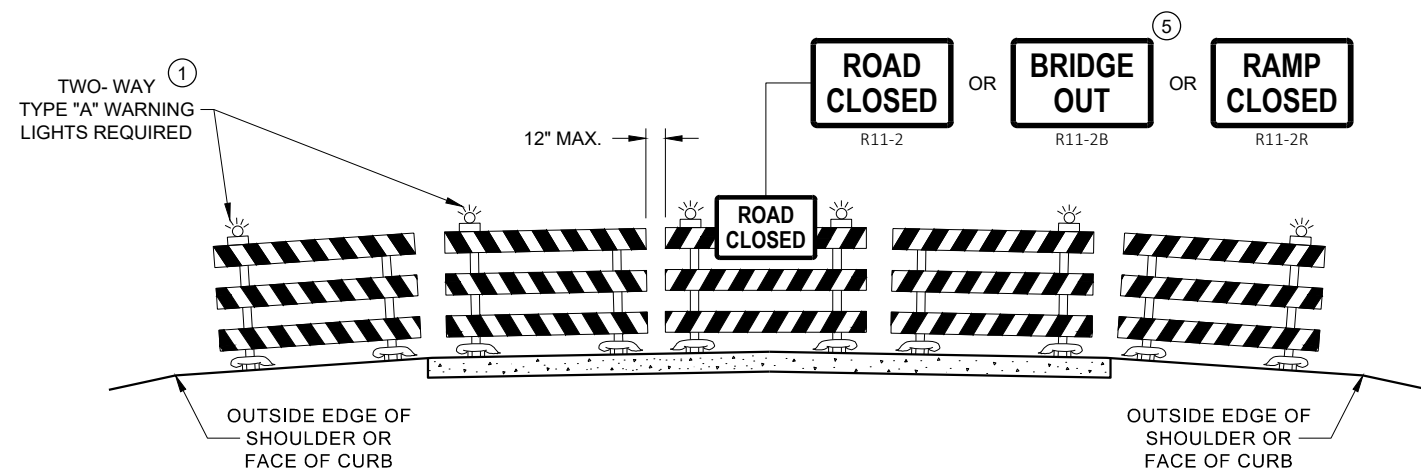


DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
 WORK ZONE LESS THAN ½ MILE FROM
 DETOUR ROUTE (1000 FEET IF URBAN)

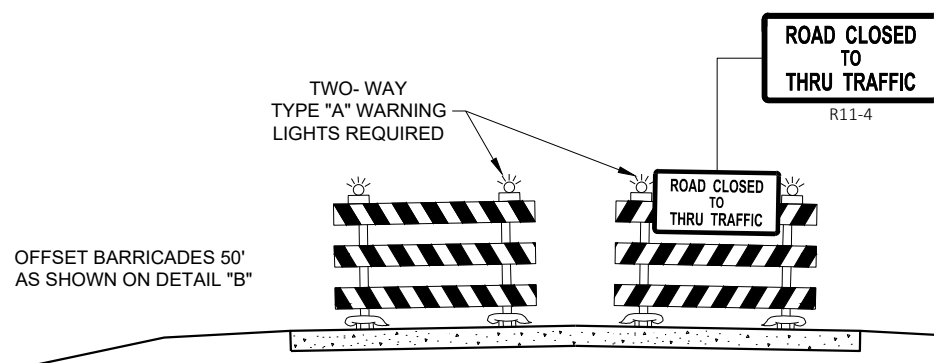
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦





DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

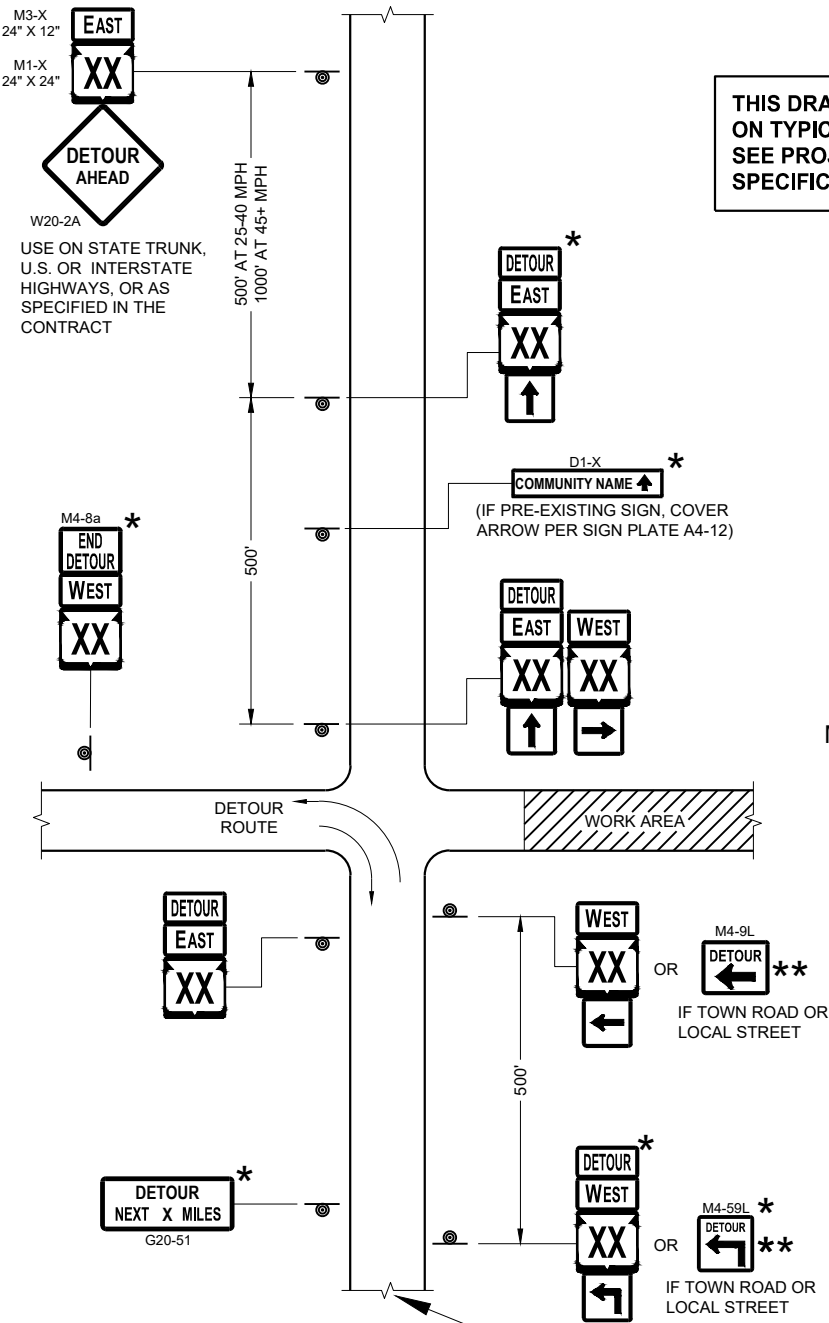
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 15" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

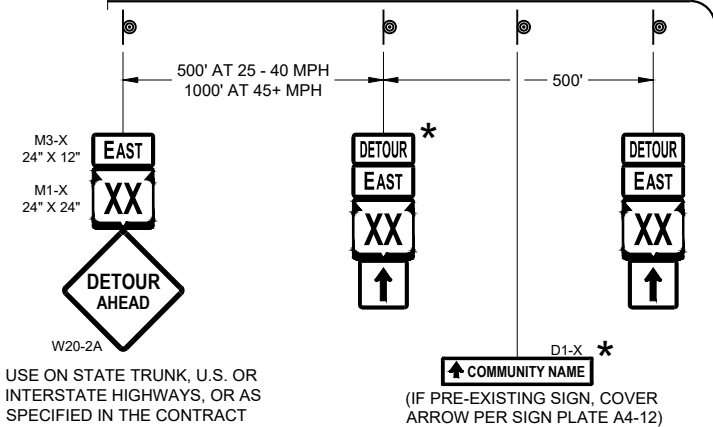
APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 80
FHWA



SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

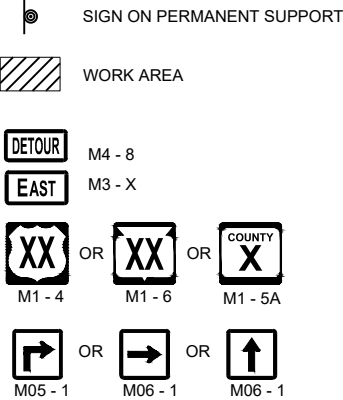
THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT



DETAIL F
DETOUR SIGNING

LEGEND



GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

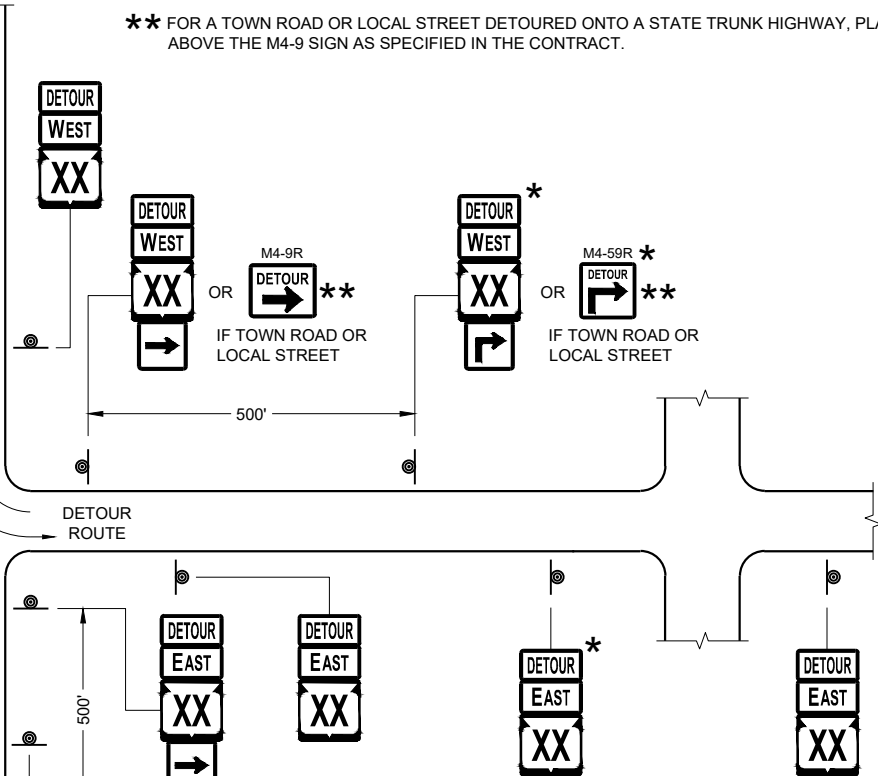
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2 SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

- * OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.
- ** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

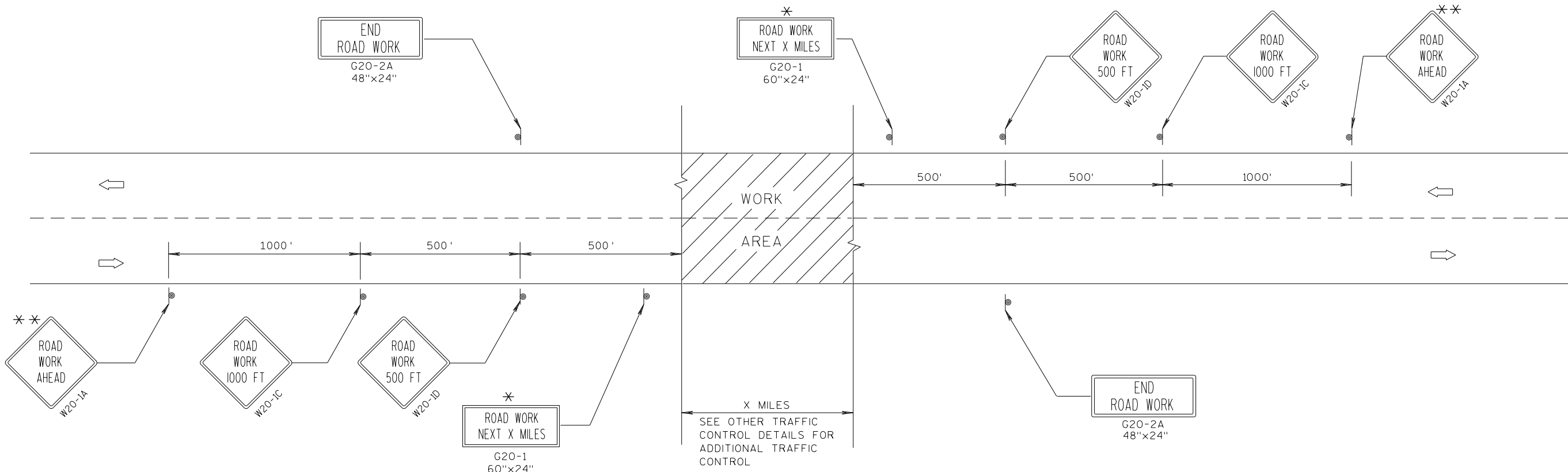


PLACE SIGNS BEYOND INTERSECTIONS
WITH STATE OR COUNTY TRUNK
HIGHWAYS OR AT 4 MILE MAXIMUM
SPACING (4 BLOCKS IF URBAN AREA)

DETOUR SIGNING
FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 81
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.

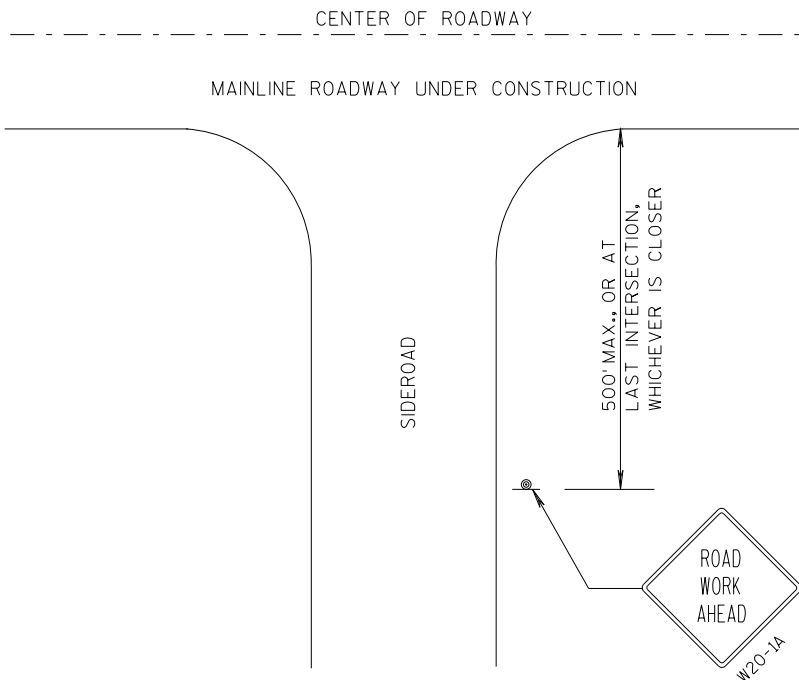
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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 W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



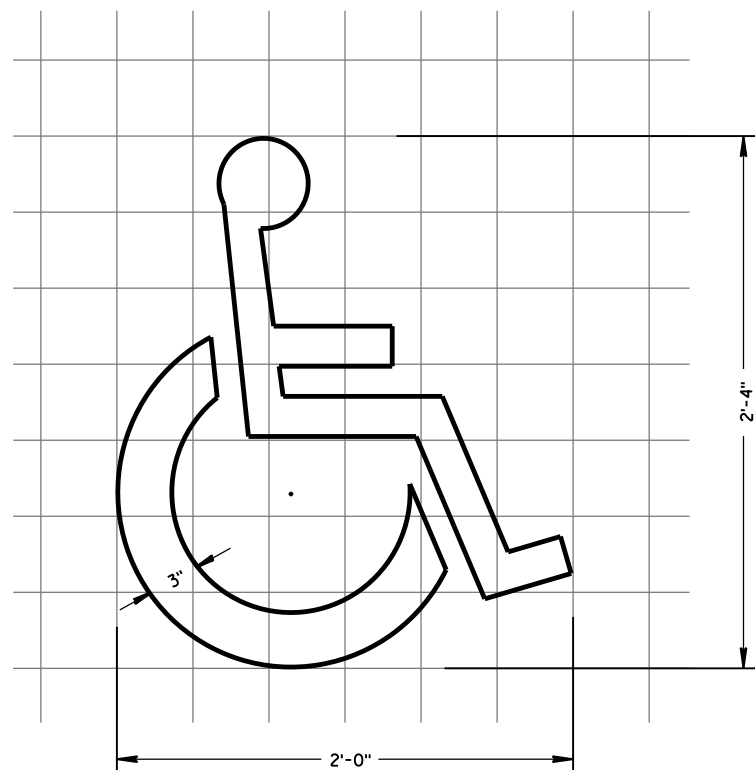
LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

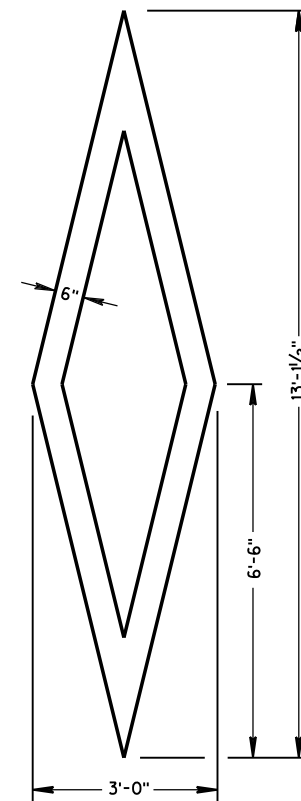
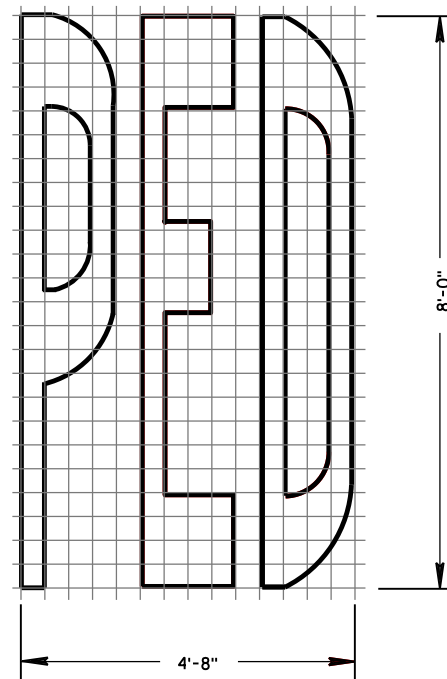
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGR 82
FHWA



HANDICAP SYMBOL

PREFERENTIAL
LANE SYMBOL**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.

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

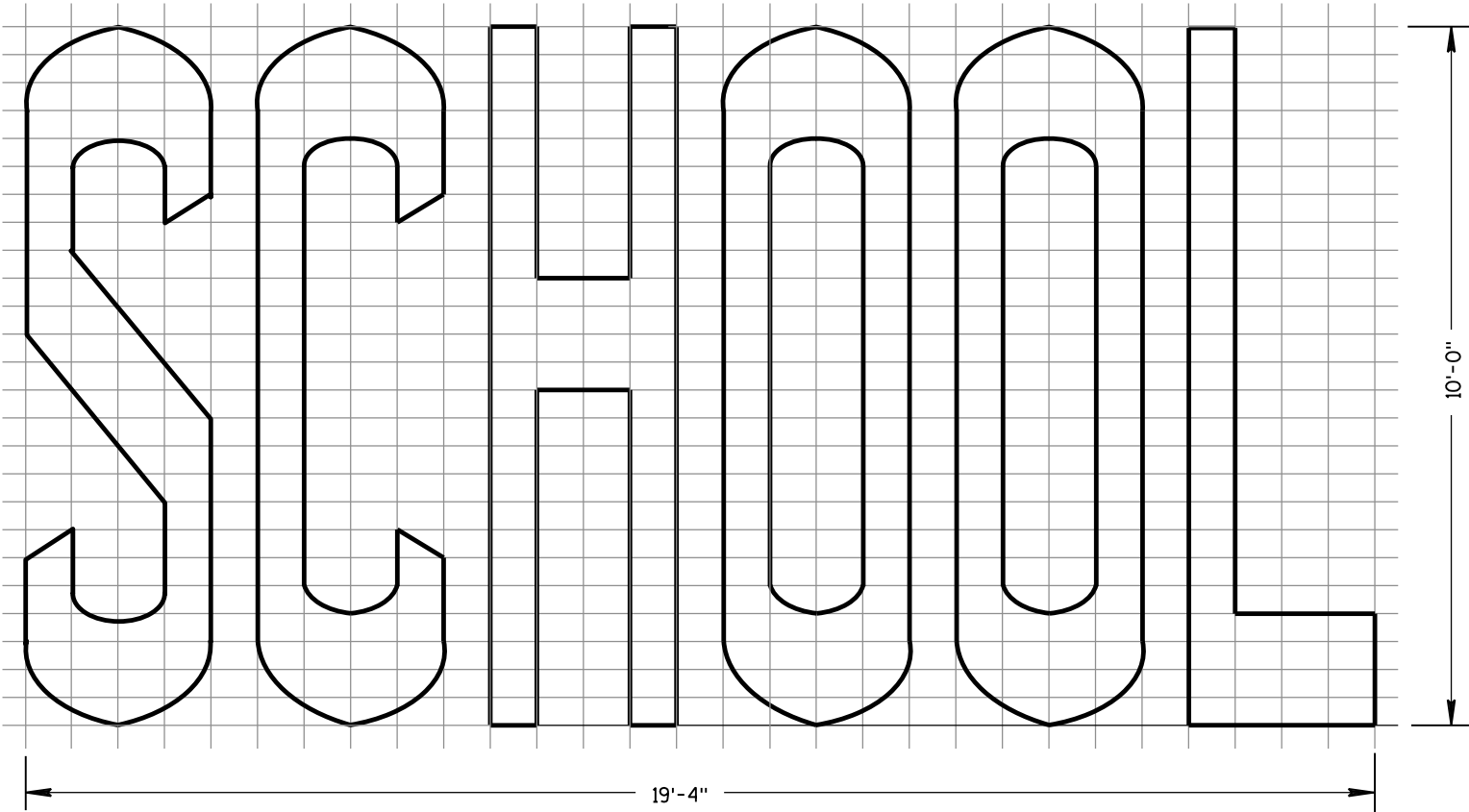
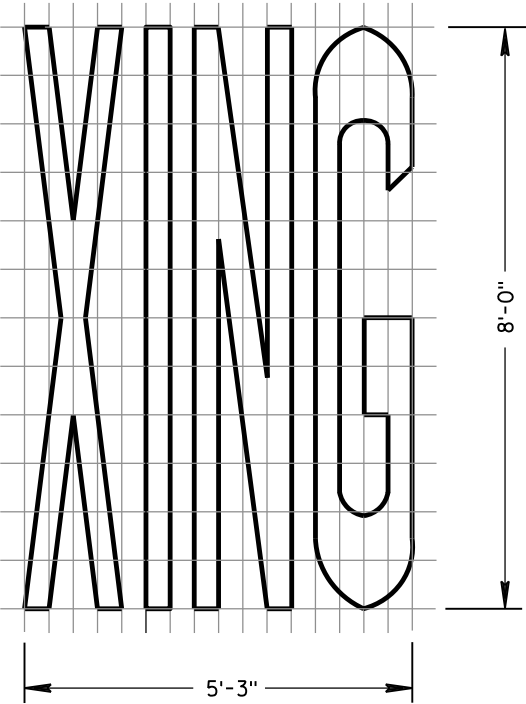
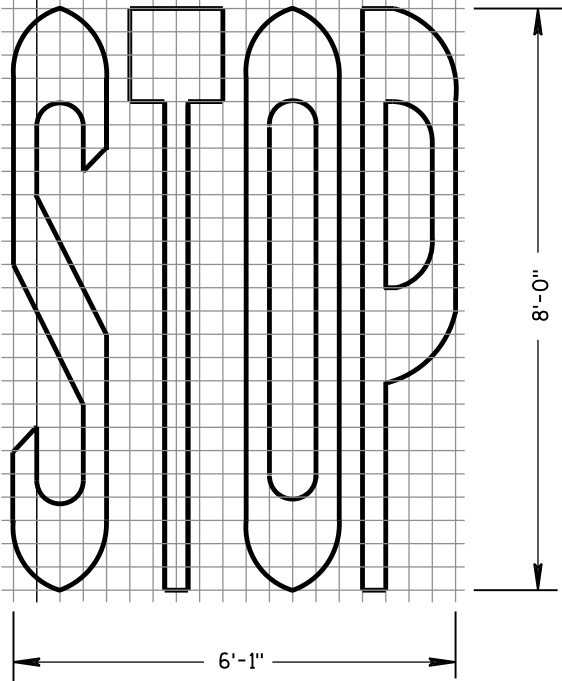
APPROVED

June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKER EER

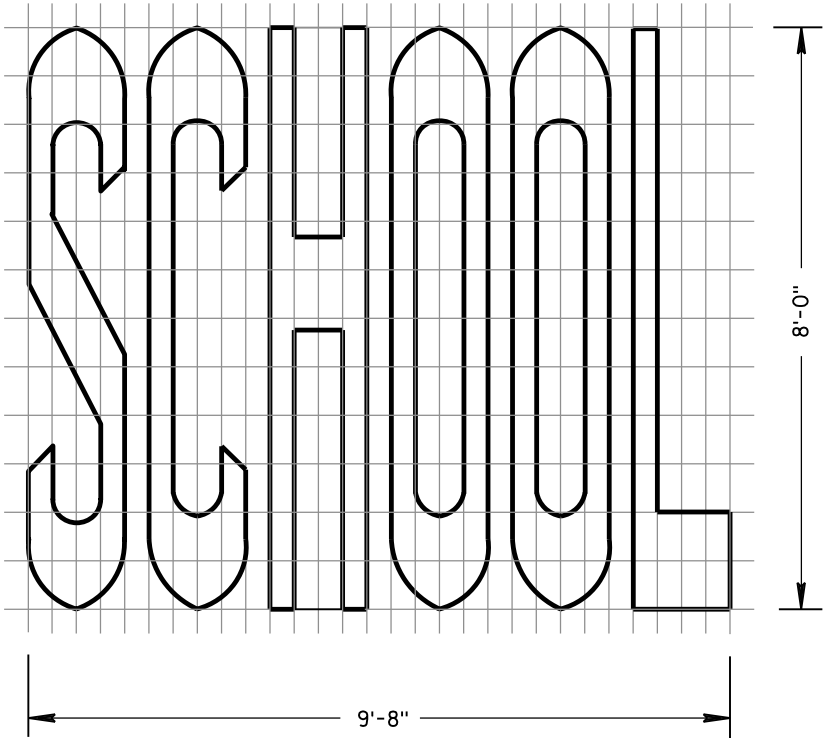
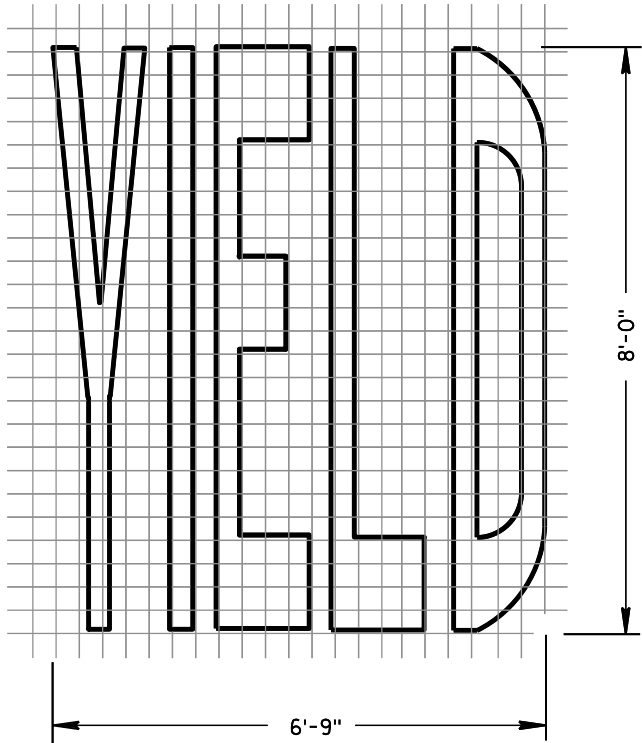
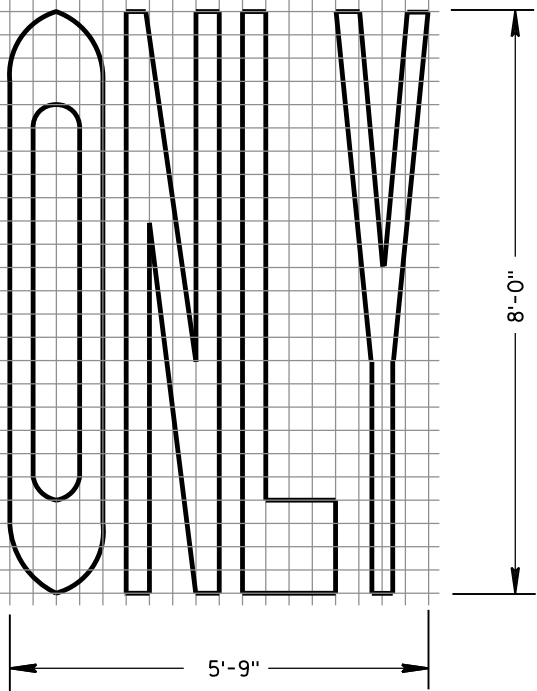
FHWA

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.



TWO-LANE

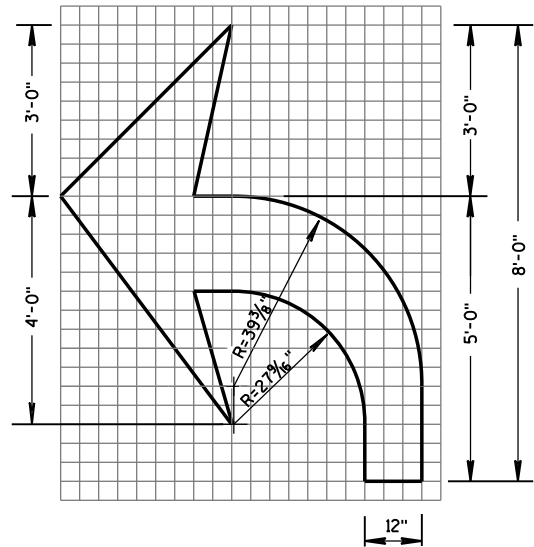


SINGLE-LANE

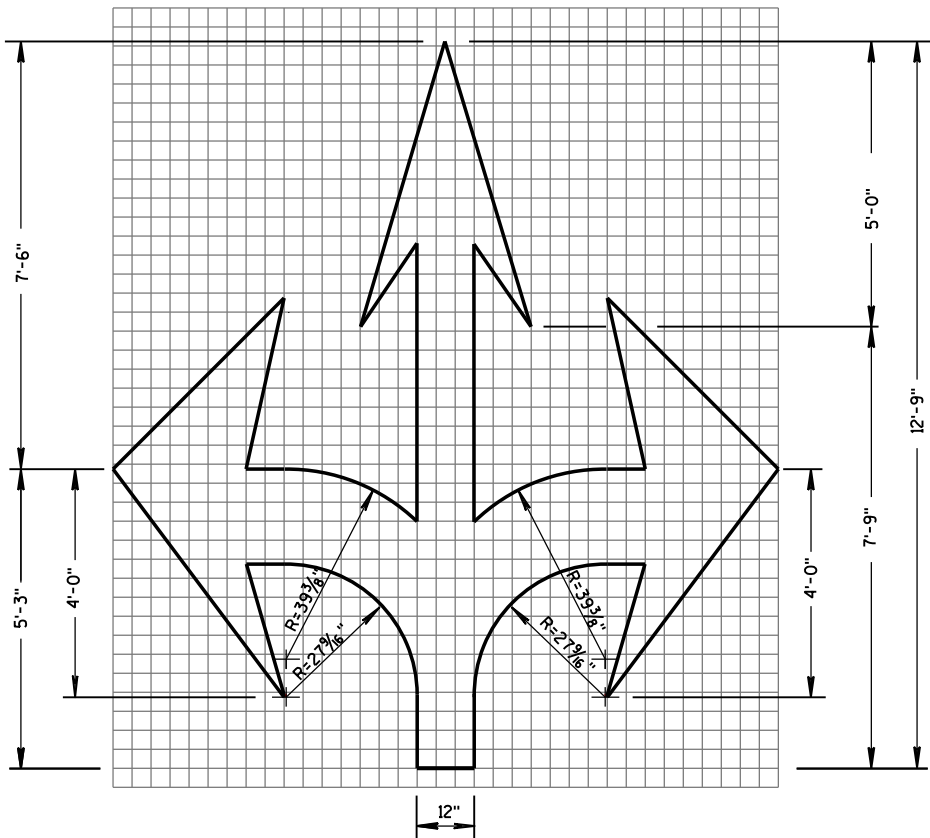
PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

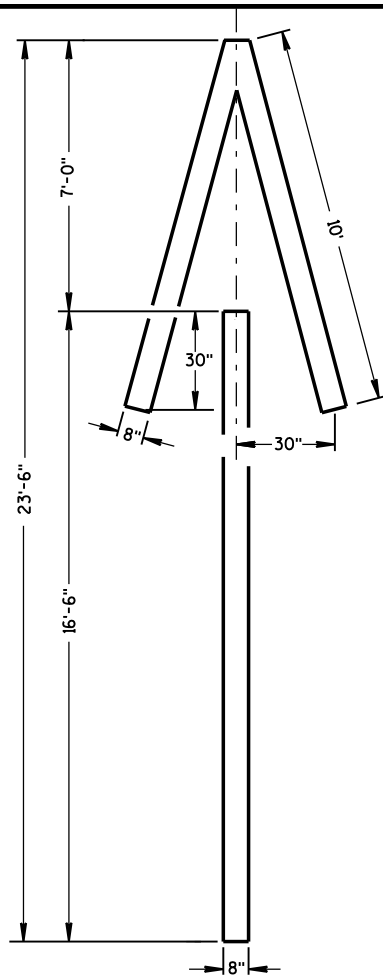
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June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARK 84 EER
FHWA



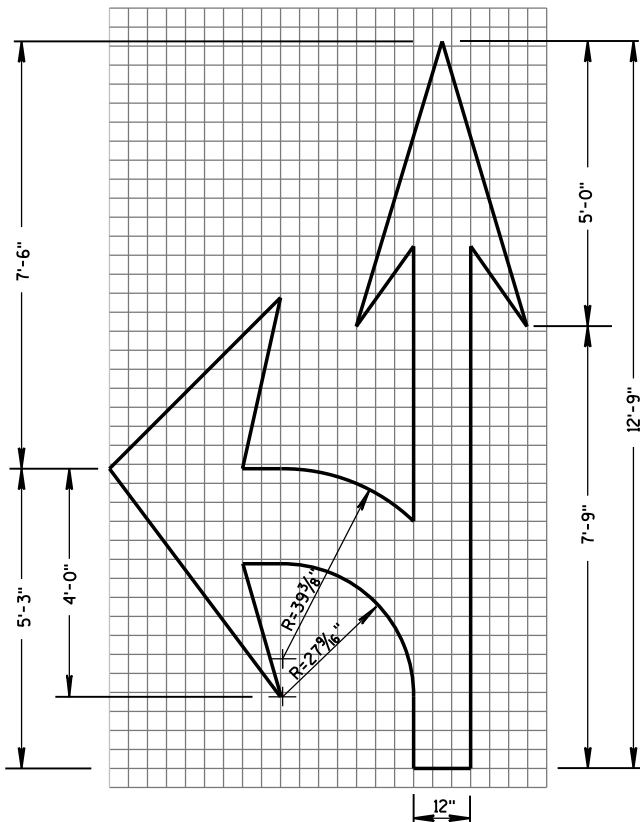
TYPE 2



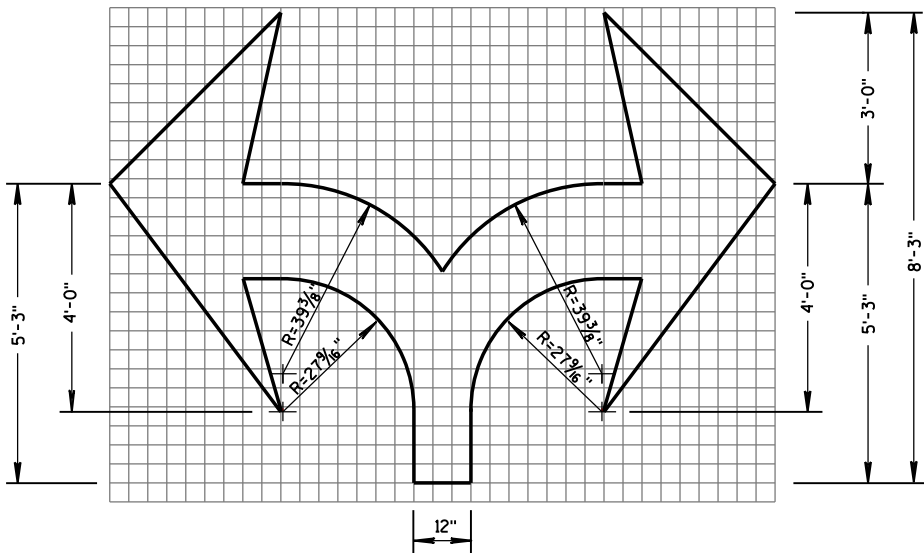
TYPE 6



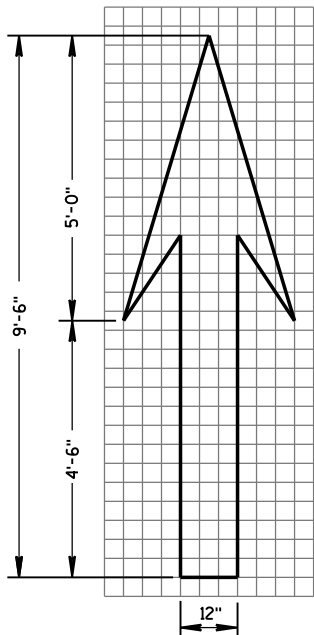
TYPE 4



TYPE 3



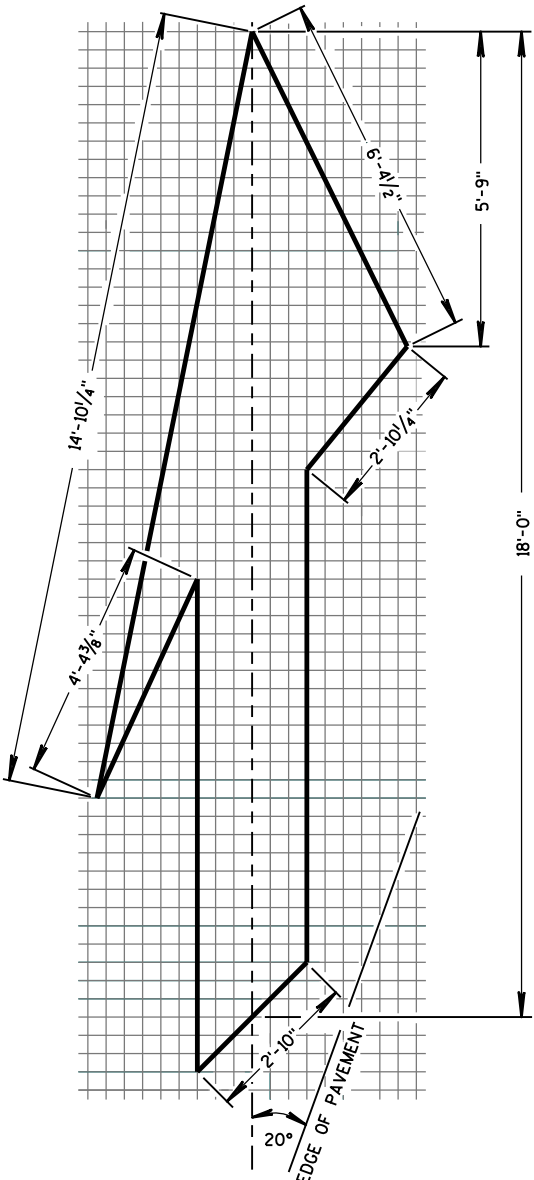
TYPE 7



TYPE 1

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.

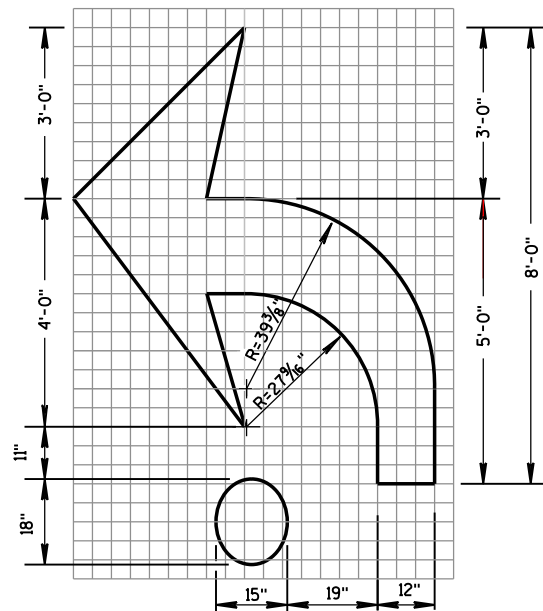


TYPE 5 LANE DROP ARROW

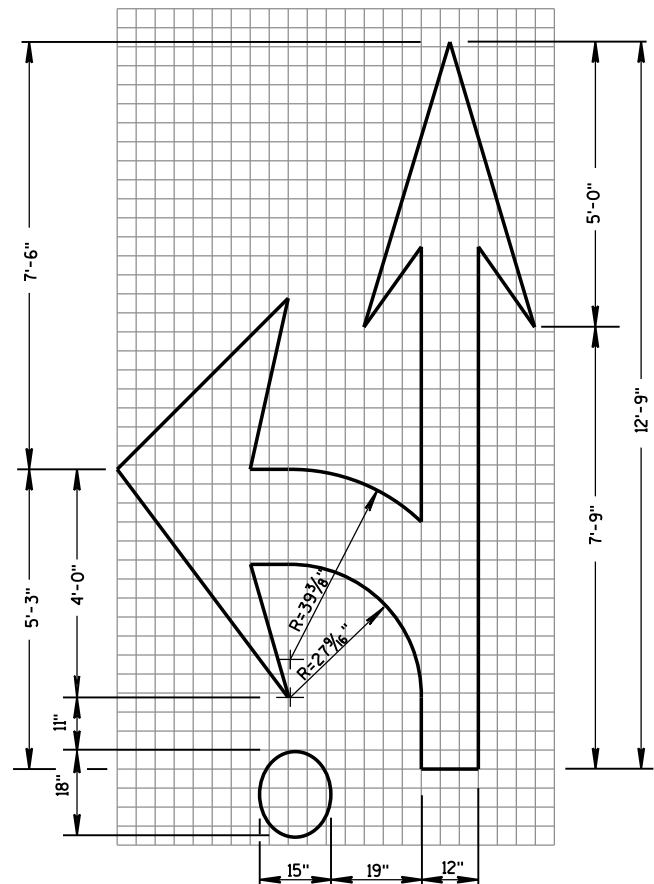
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

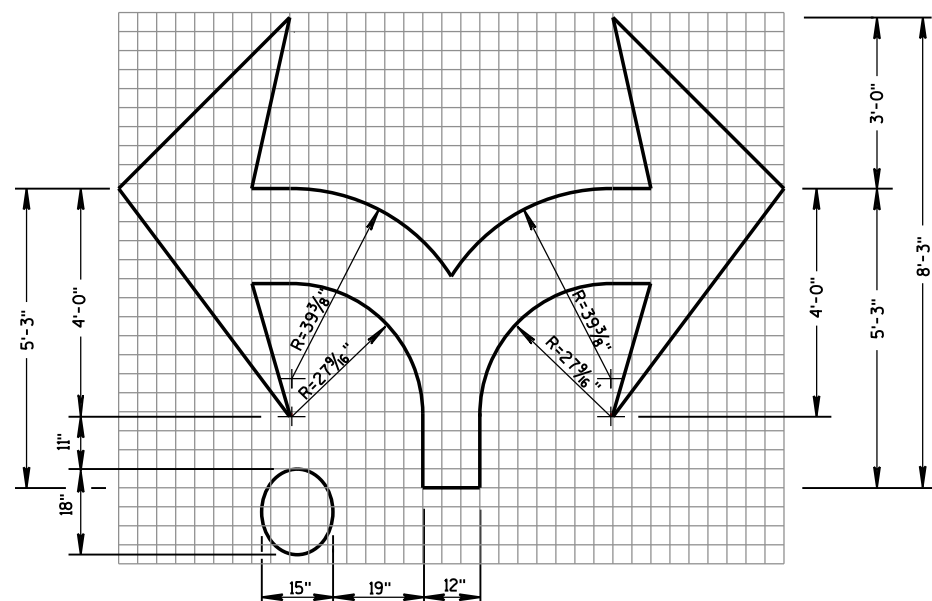
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June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAR 85
FHWA



TYPE 2R



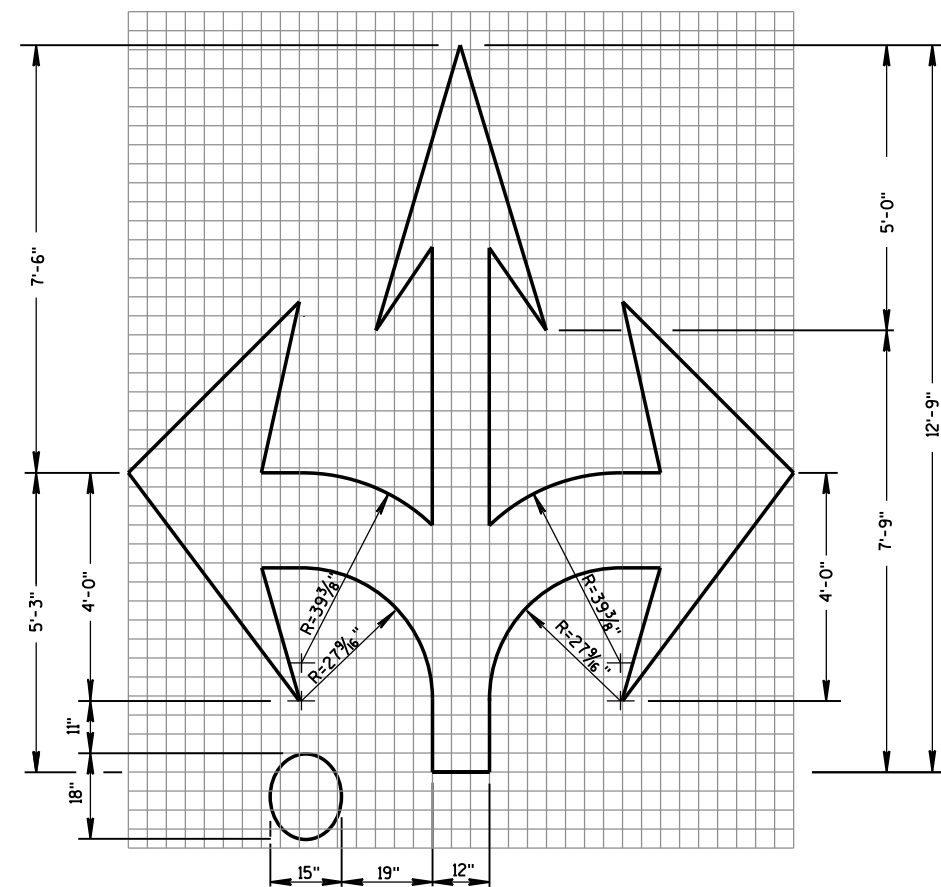
TYPE 3R



TYPE 7R

GENERAL NOTES

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



TYPE 6R

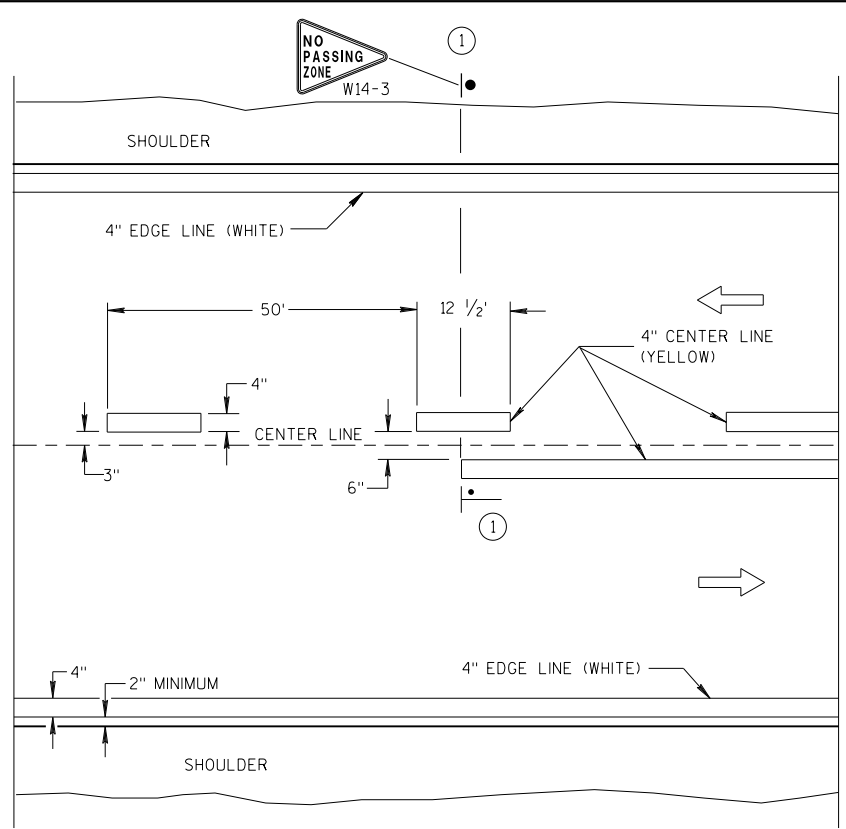
ROUNDBOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

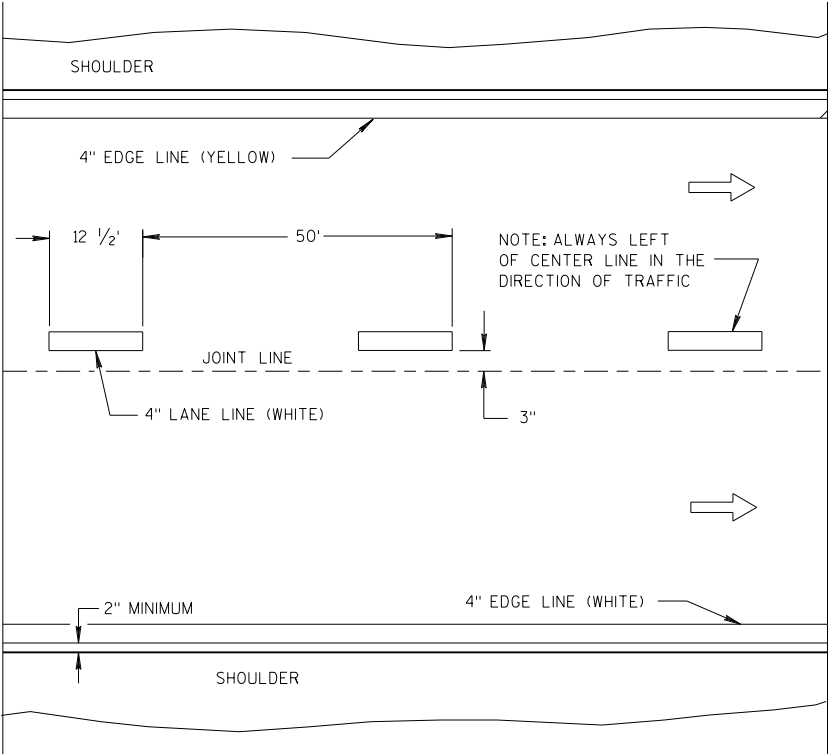
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June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAR 86 NEER

FHWA

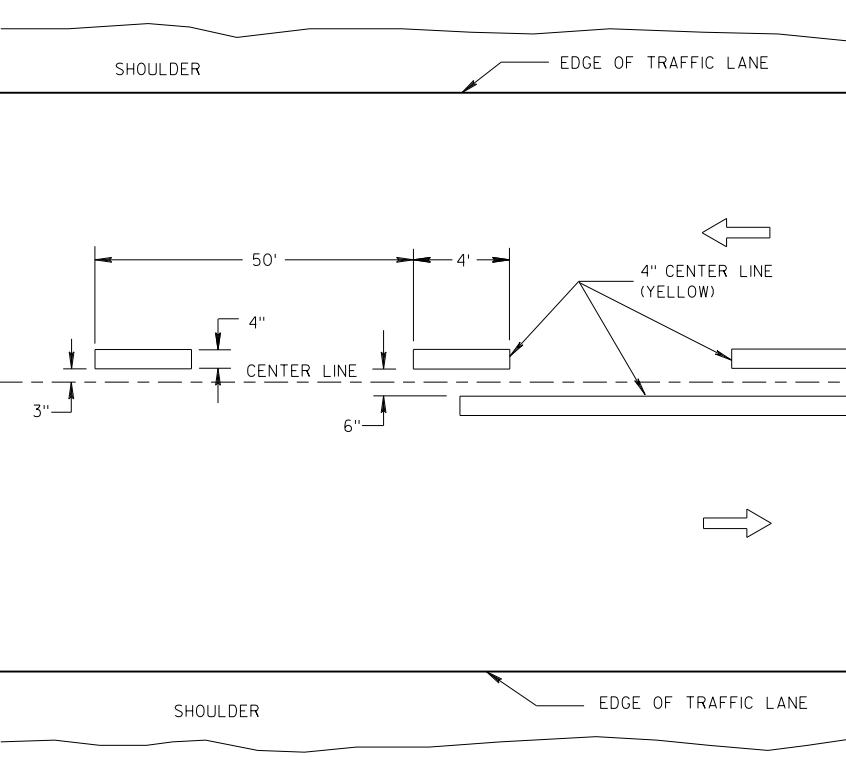


TWO WAY TRAFFIC

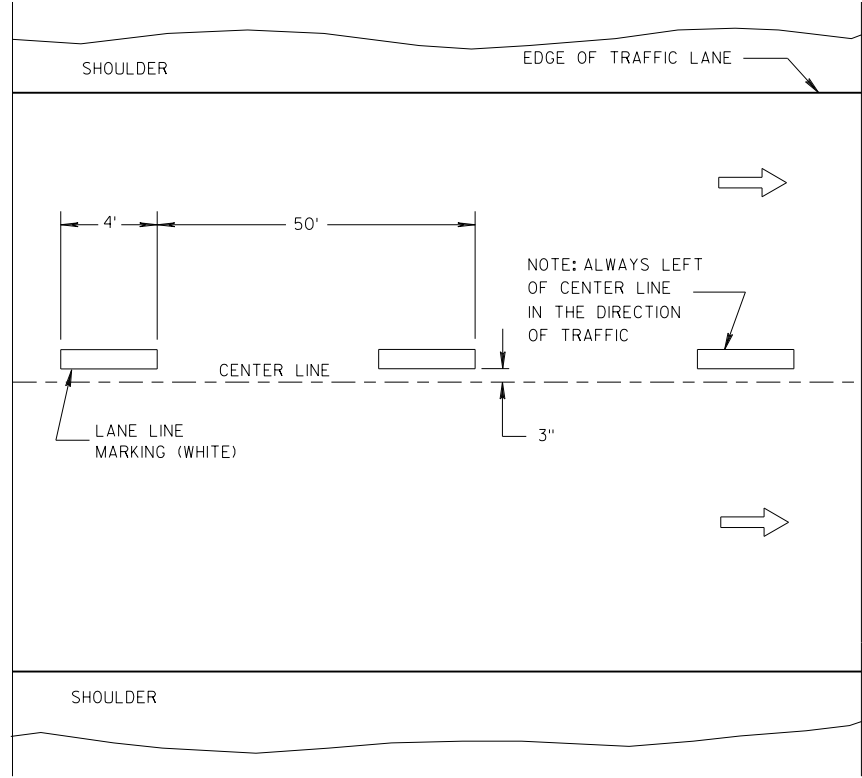


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

1 LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)

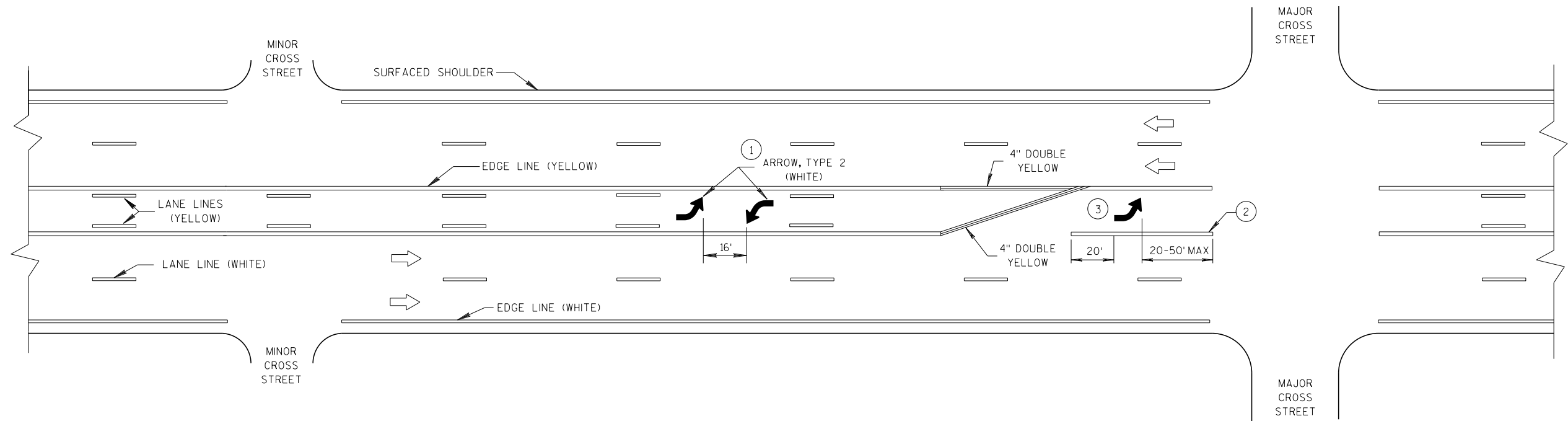
STATE OF WISCONSIN
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7/2018 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAR 87 INEER
FHWA

GENERAL NOTES

- 1 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 2 8" WHITE
- 3 TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

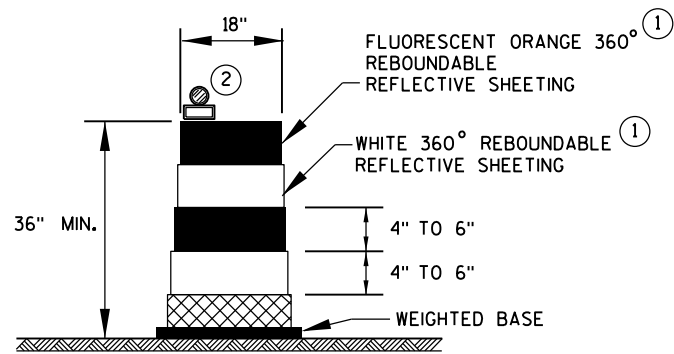
➡ DIRECTION OF TRAFFIC



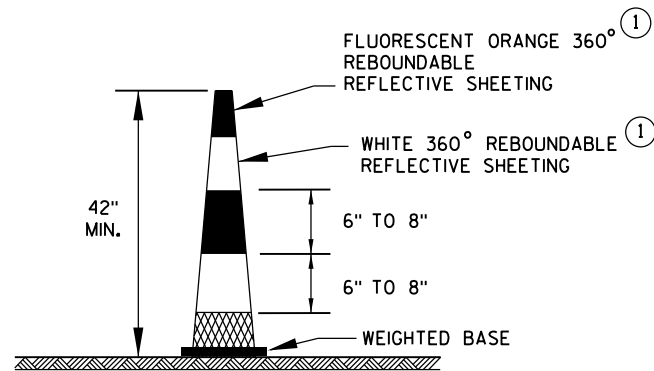
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DRUM

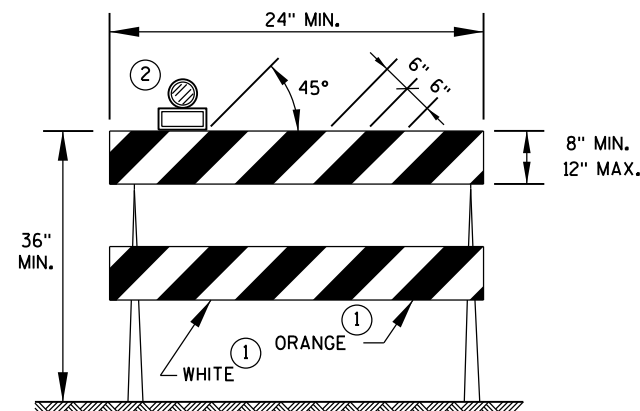


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

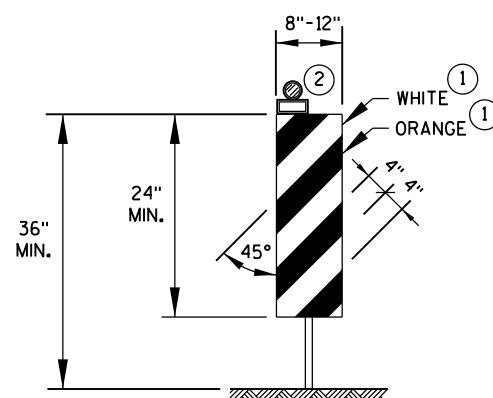
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



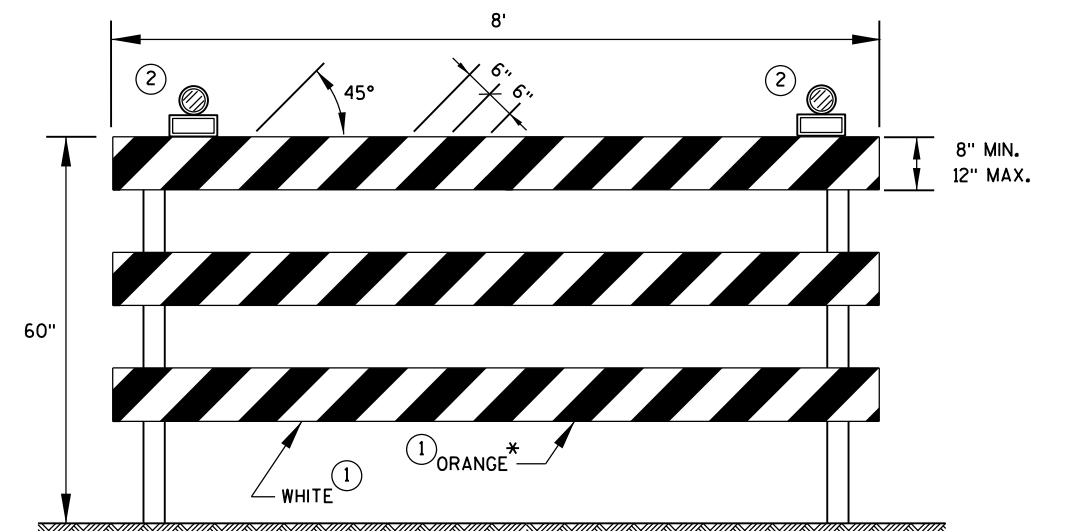
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENG 89

FHWA

LEGEND

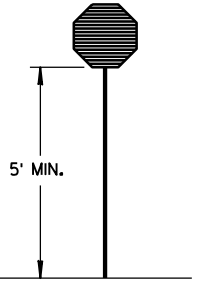
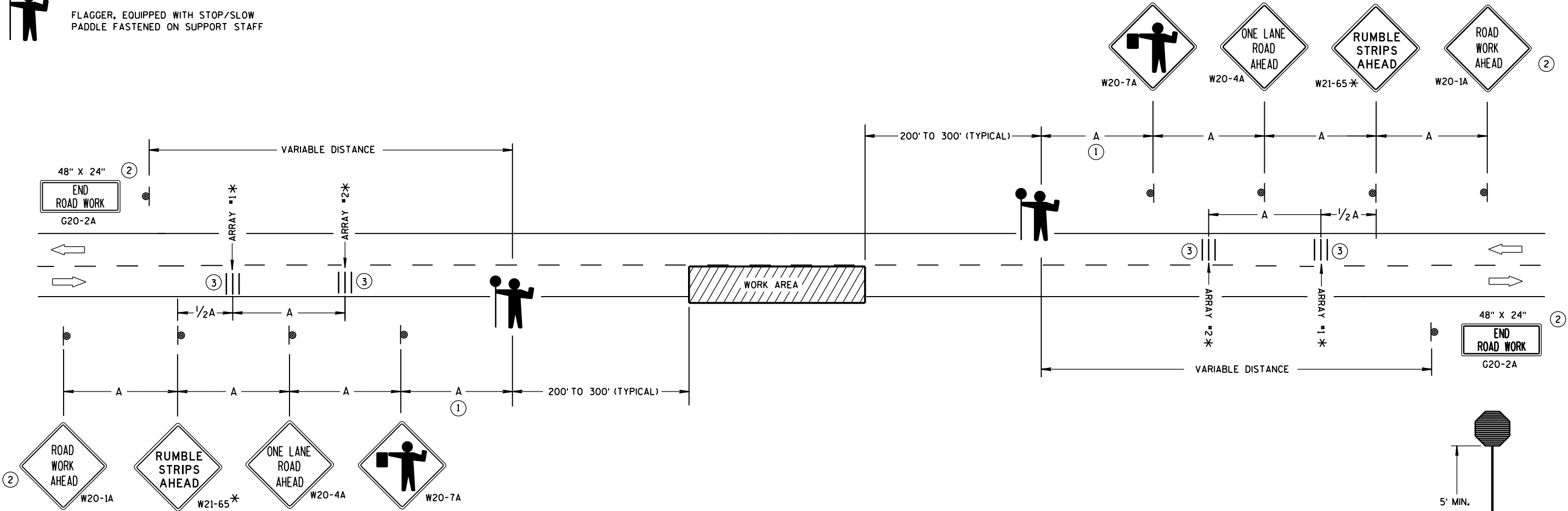
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



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



STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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.

"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

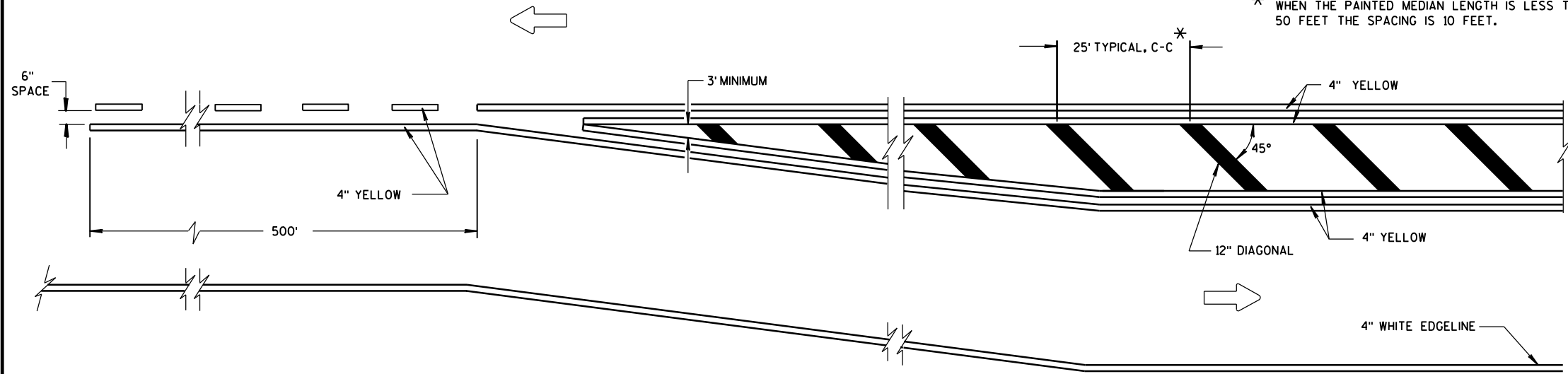
* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENC 90
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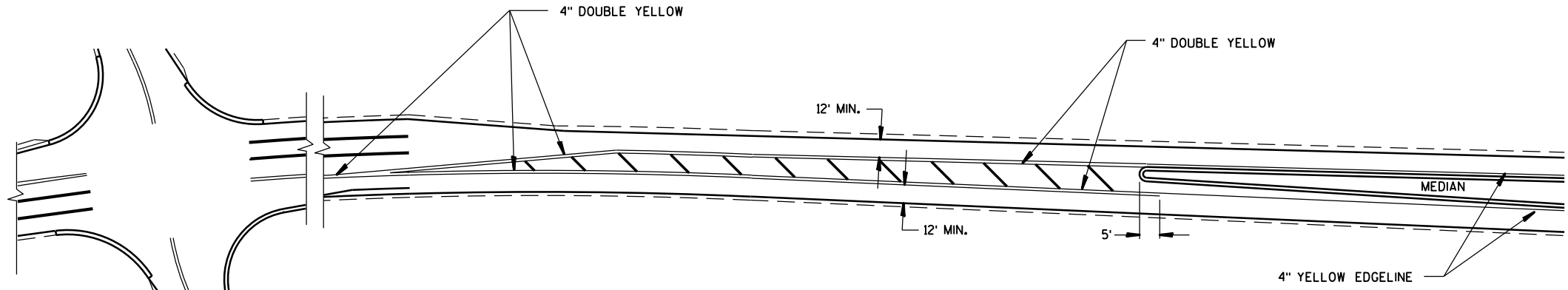


MEDIAN ISLAND DETAIL

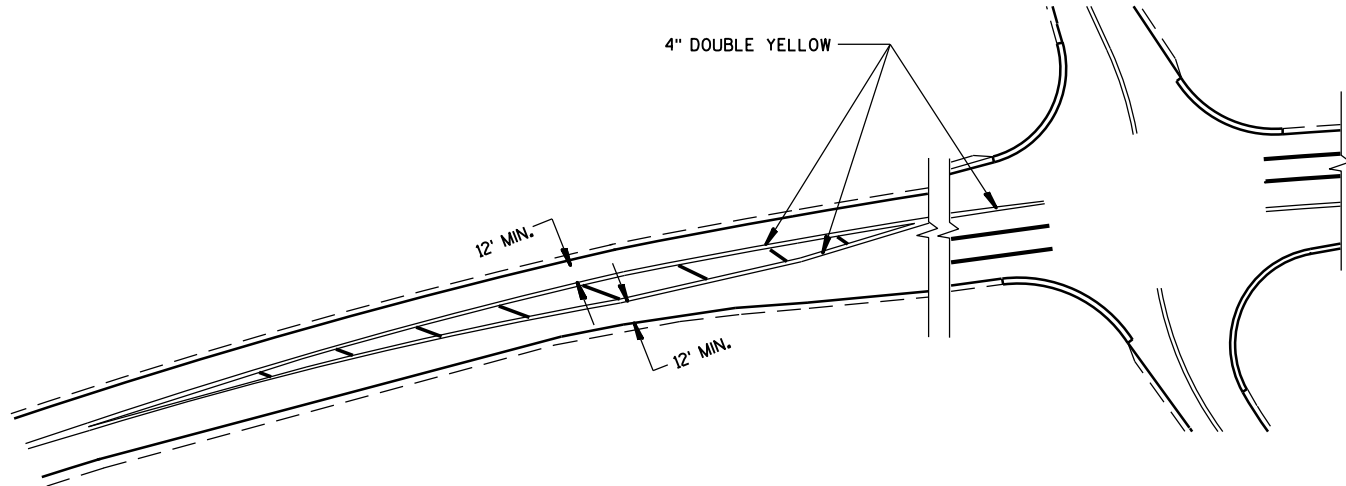
GENERAL NOTE

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

➡ DIRECTION OF TRAVEL

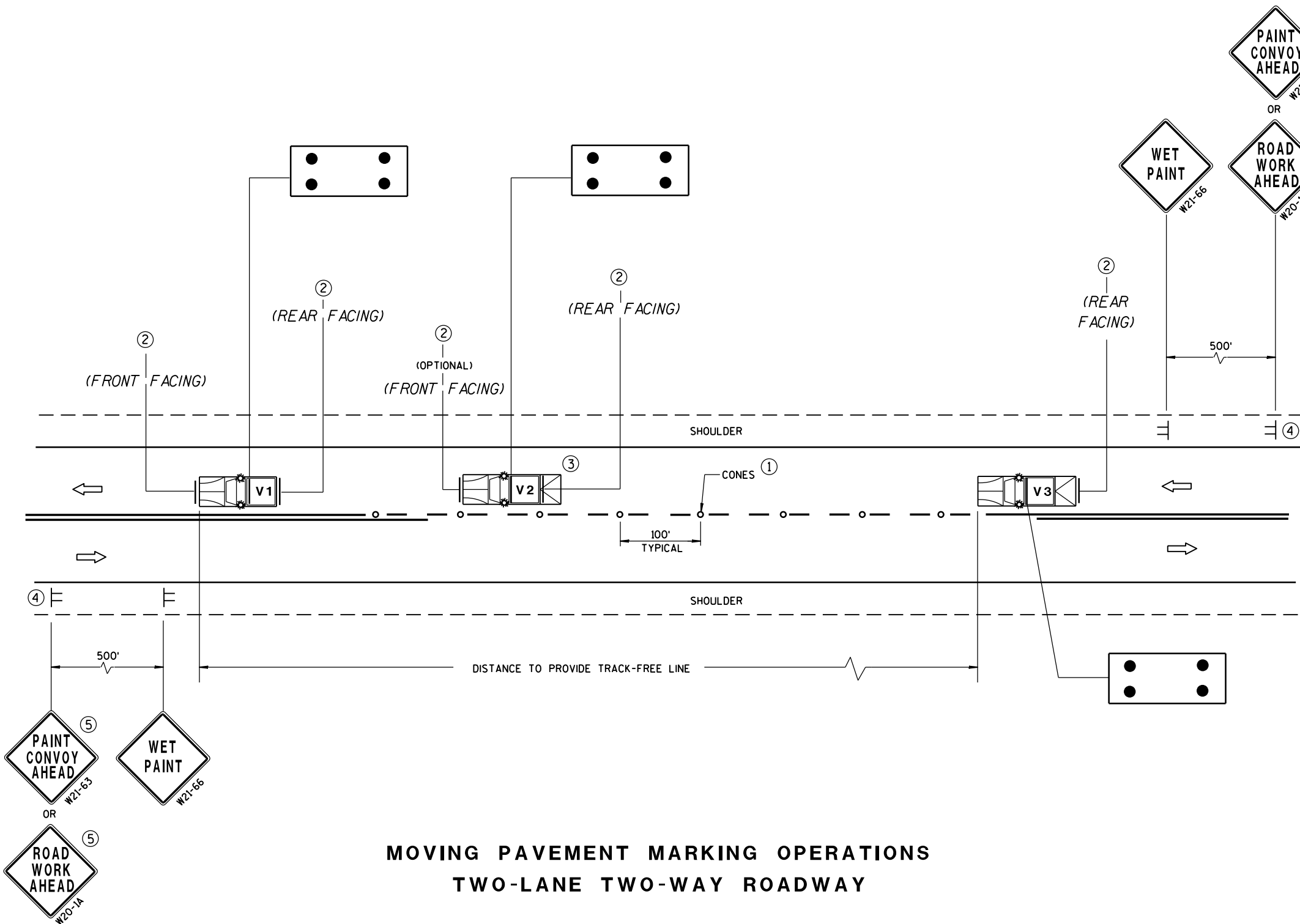


APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

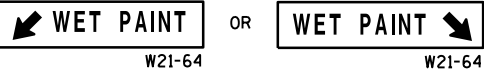
MEDIAN ISLAND MARKING			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED			
June 2017	/S/ Matthew Rauch		
DATE	STATE SIGNING AND MARK	91	ER
FHWA			



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
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENGR 92
FHWA

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

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

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.

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

SHOULDER TAPER LENGTH (FEET)						BUFFER SPACE (FEET)
S \ W	4	6	8	10		
30	20	30	40	50	200	
35	30	45	55	70	250	
40	40	55	75	90	305	
45	60	90	120	150	360	
50	70	100	135	170	425	
55	75	110	150	185	495	

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

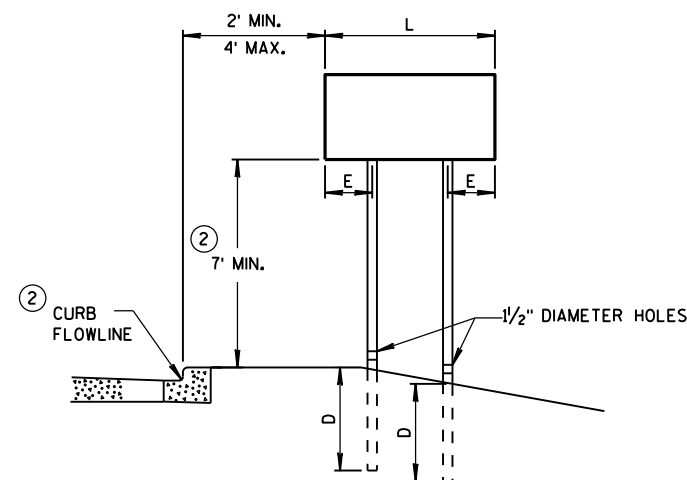
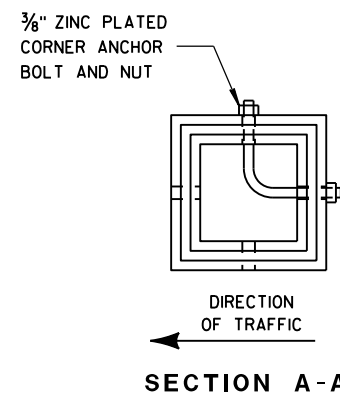




TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS LARGER THAN 27 SQ.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

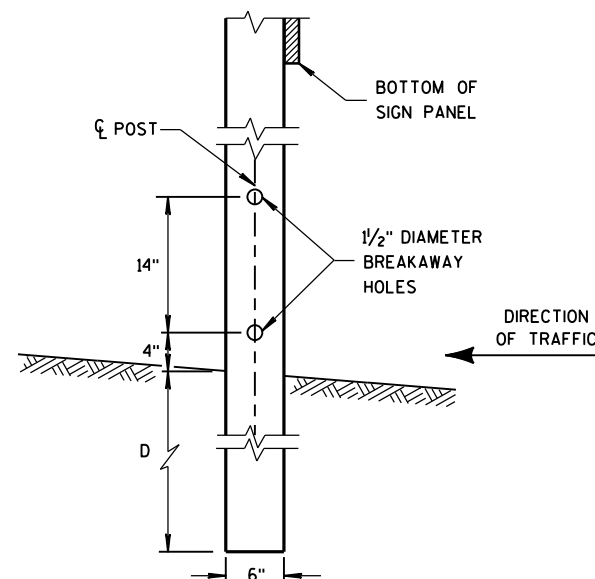


URBAN AREA

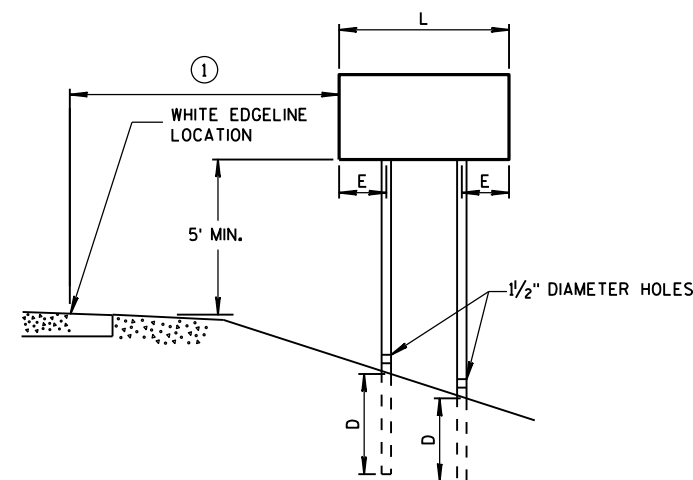
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST
EMBEDMENT DEPTH

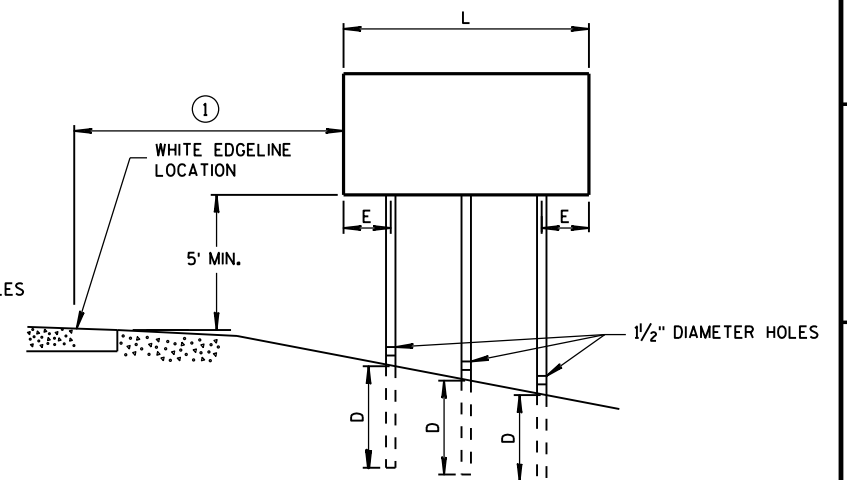
AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'



4" x 6" WOOD POST MODIFICATION



RURAL AREA



GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② 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. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

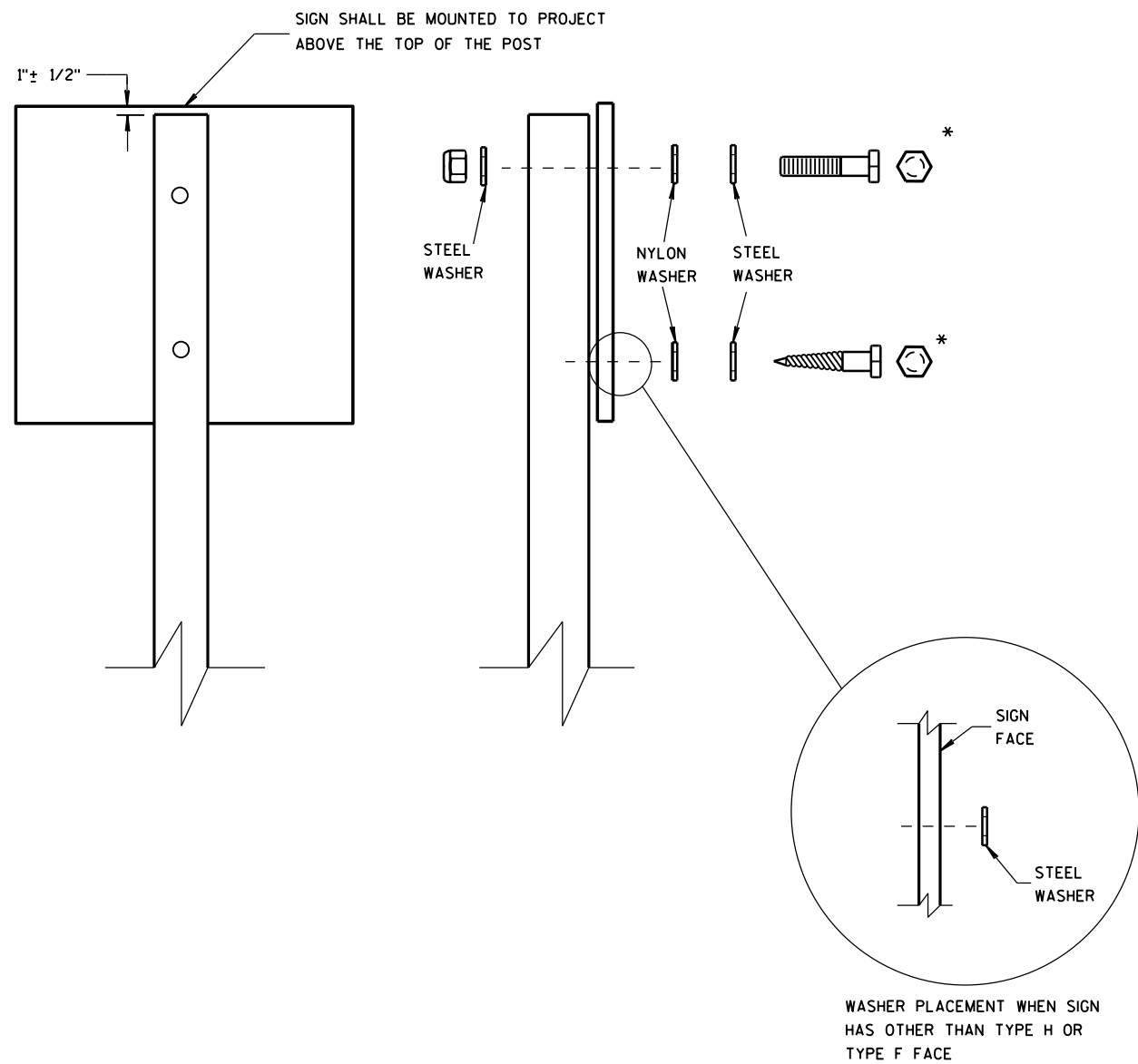
4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION⁹⁴



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.

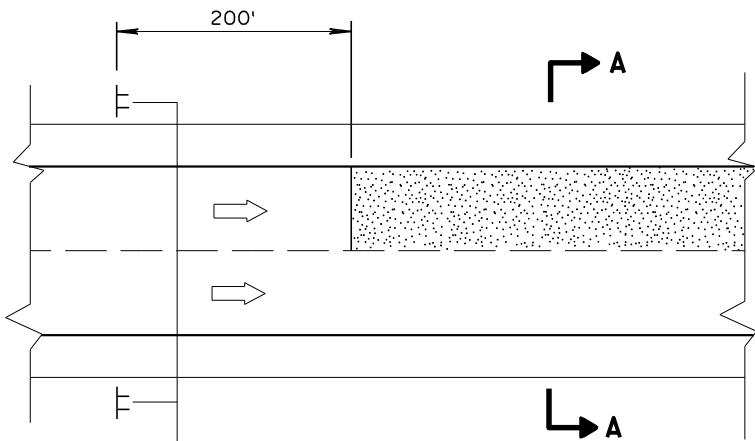
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

- 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

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENC 95
FHWA	



MULTI-LANE

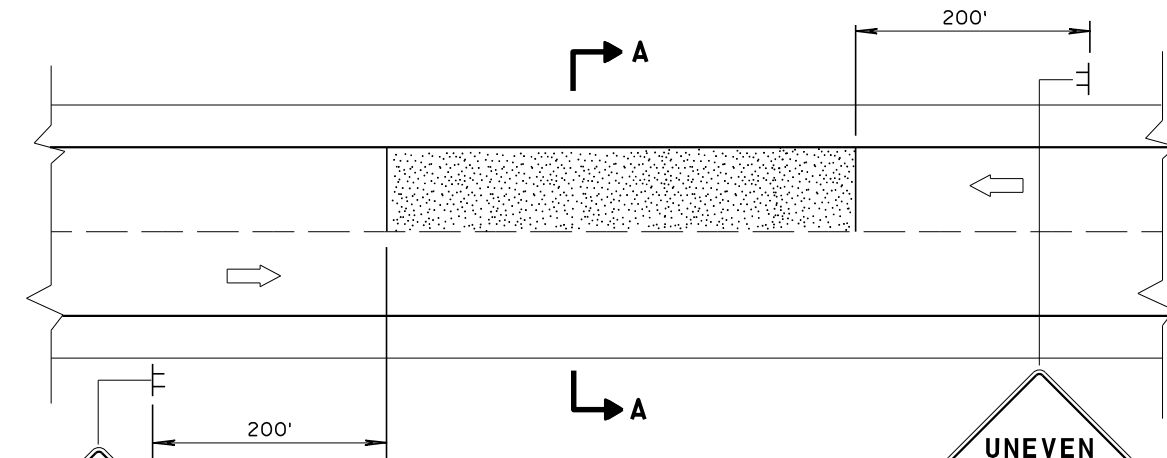


SECTION A-A

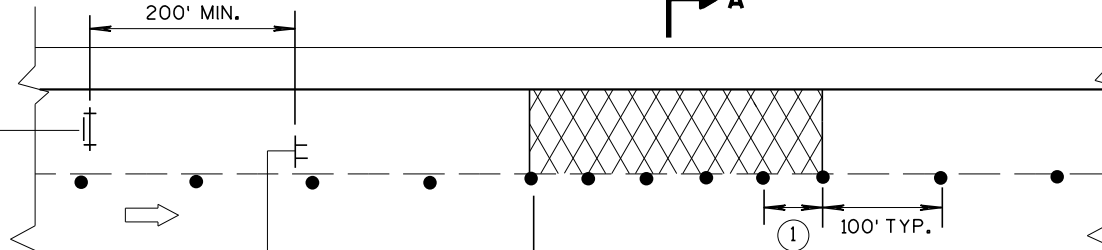
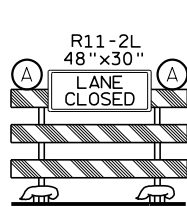
OR



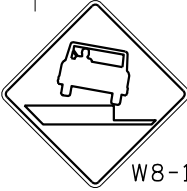
SECTION A-A



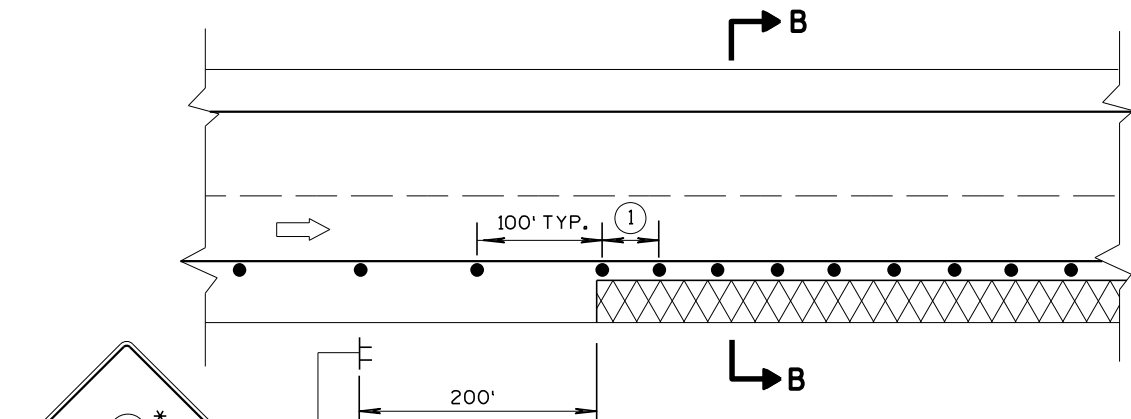
TWO-WAY TWO LANE



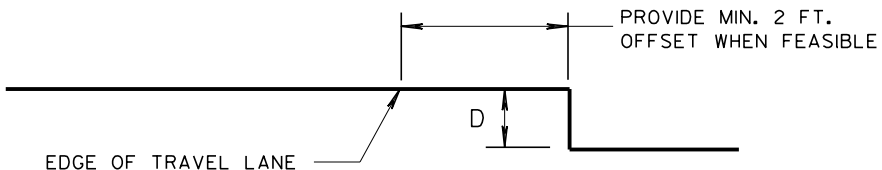
MULTI-LANE BASE PATCHING



ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B-B

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

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

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EACH ENTRANCE RAMP.

① USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	 W08-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	 W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

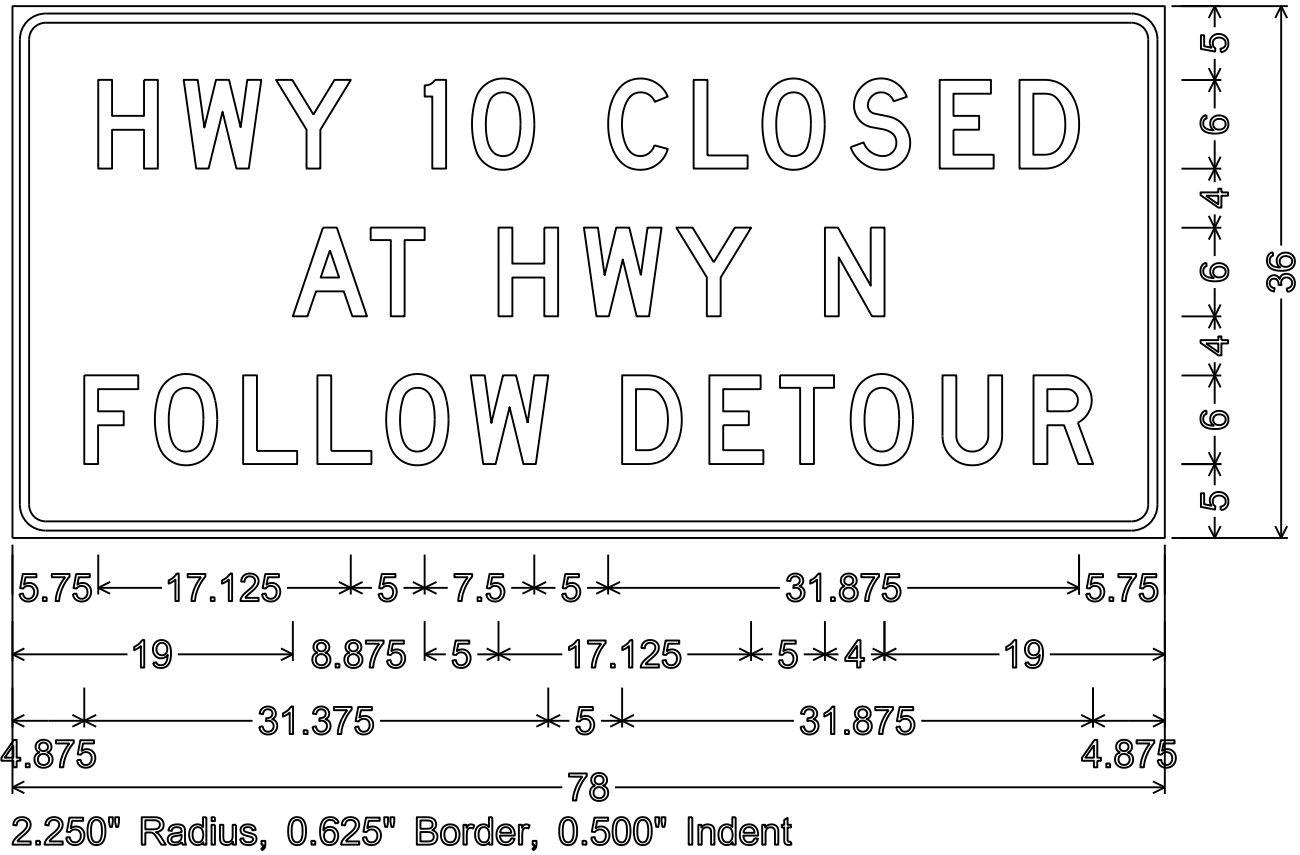
TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 /S/ Andrew H
DATE WORK ZONE EN 96
FHWA

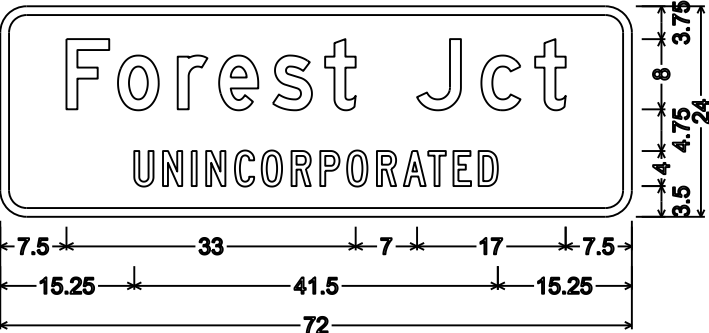
NOTES

- 1. Fixed Message Type II Signs - Type F Reflective
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - D

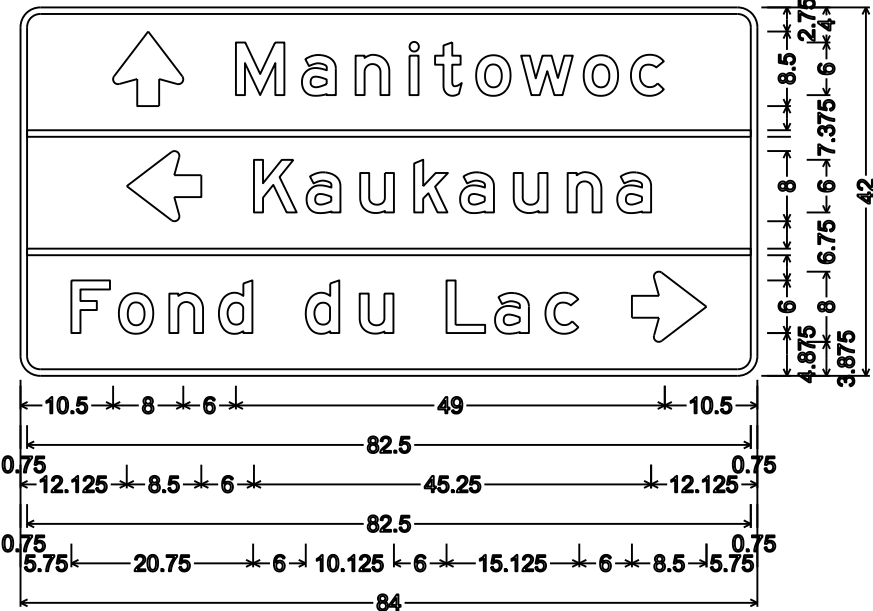


7

7



D2-3; 3.000" Radius, 1.000" Border,
"Forest" D; "Jct" D; "UNINCORPORATED" C



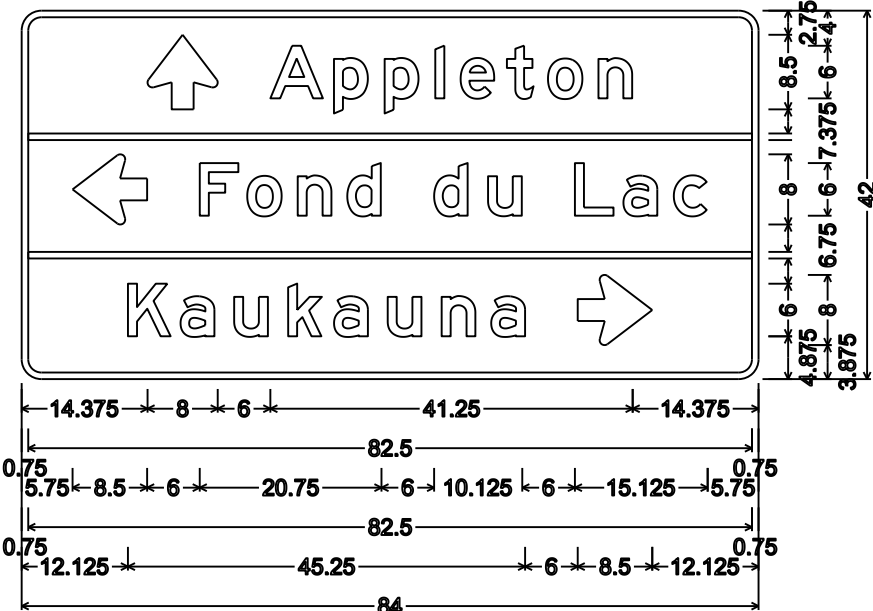
D1-3; 2.250" Radius, 0.750" Border



D2-1; 2.250" Radius, 0.750" Border

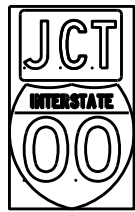
NOTES

- 1. All Signs Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E except as noted

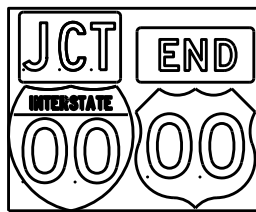


D1-3; 2.250" Radius, 0.750" Border, White on Green;

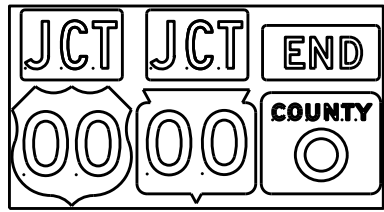
TYPICAL ASSEMBLIES



J1-1



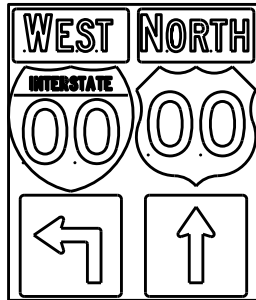
J1-2



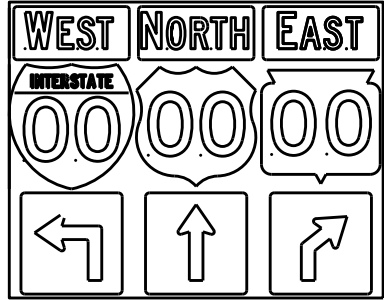
J1-3



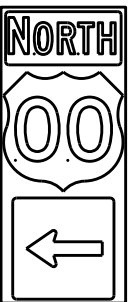
J2-1



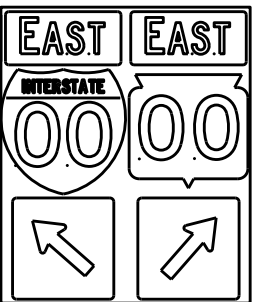
J2-2



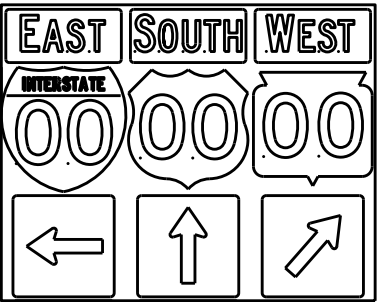
J2-3



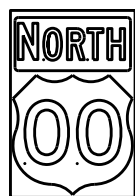
J3-1



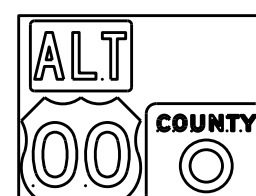
J3-2



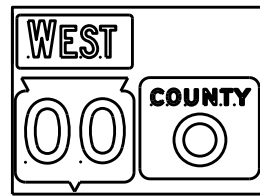
J3-3



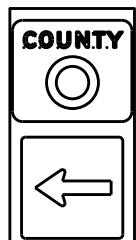
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

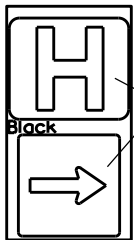


J22-1



JV

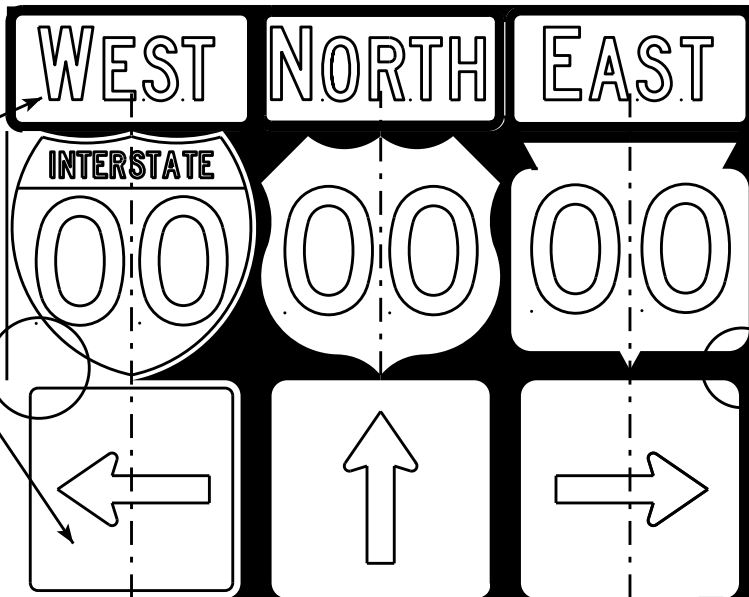
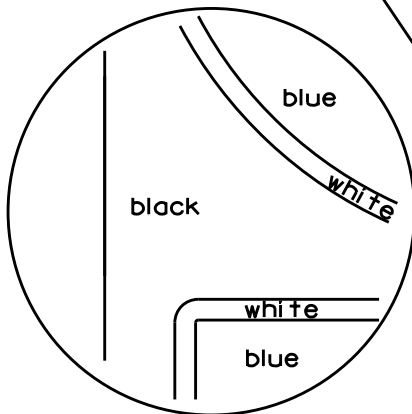
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PL 99 A2-1S.8

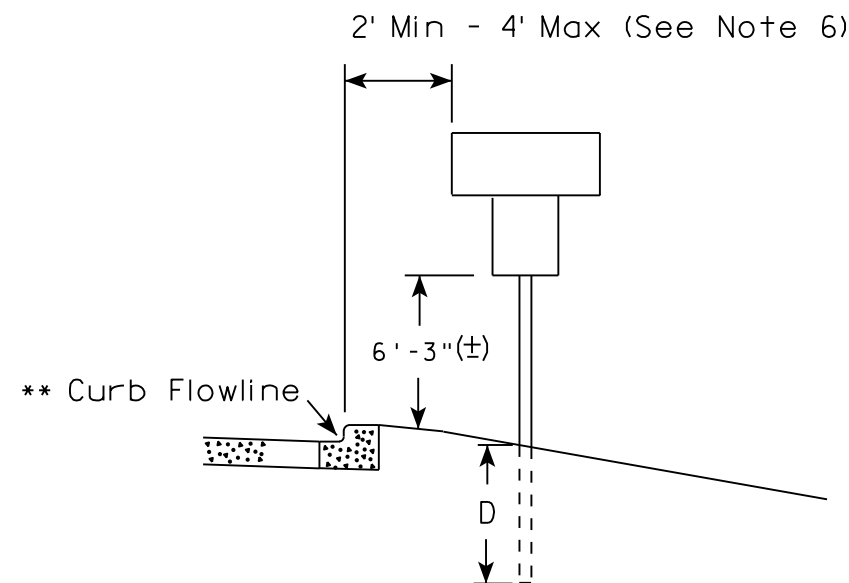
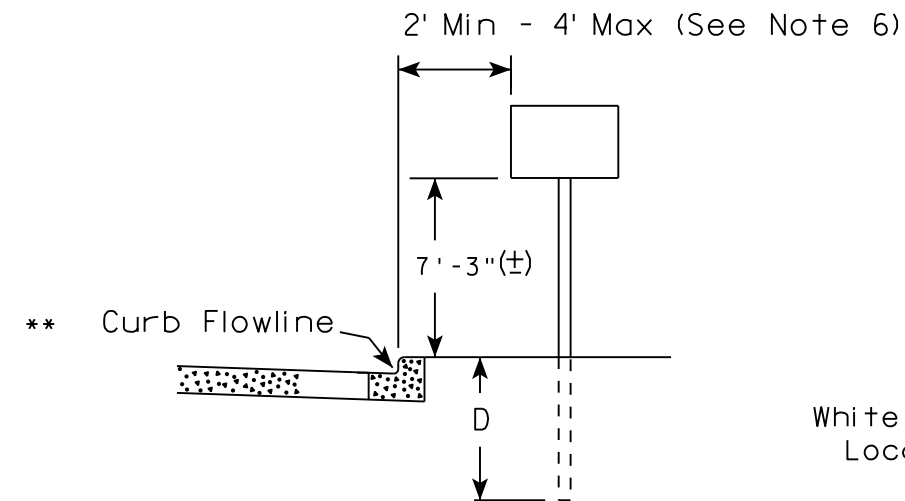
SHEET NO: E

NOTES

- Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Black Non-reflective
Message - see Note 5
- Message Series - See Note 5
- Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
- The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- 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.
- 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.
- 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.
- 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.
- All Vertical J Assemblies are given a Sign Code of JV
- For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

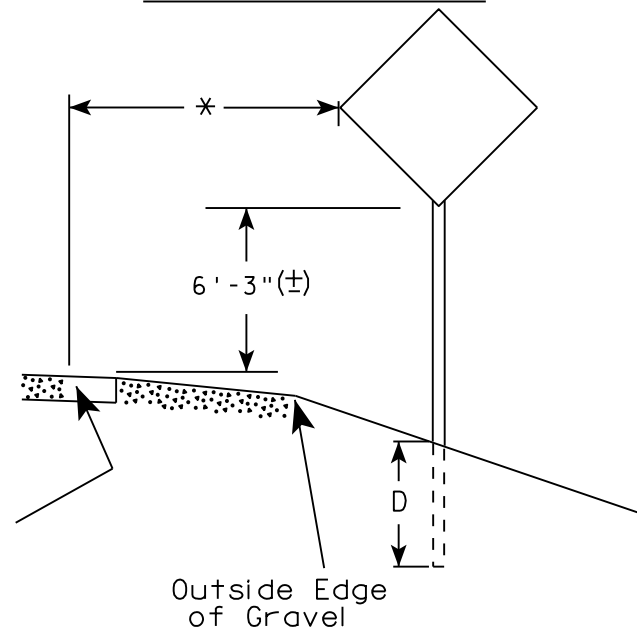
PROJECT NO:

URBAN AREA

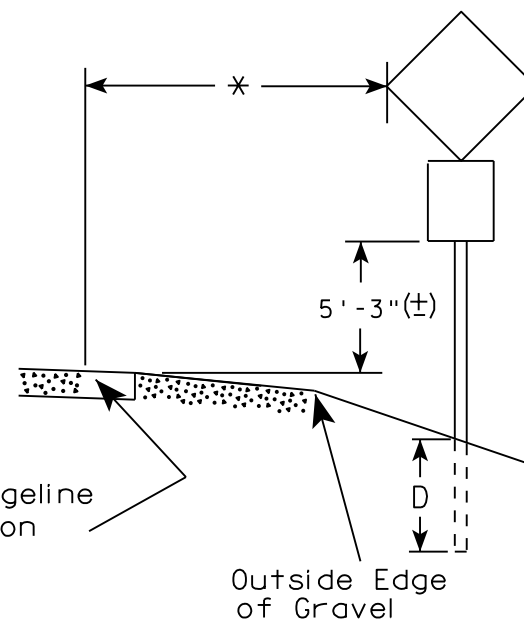


White Edgeline
Location

RURAL AREA (See Note 2)



White Edgeline
Location



Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
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 signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

✱✱ 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.

* 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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

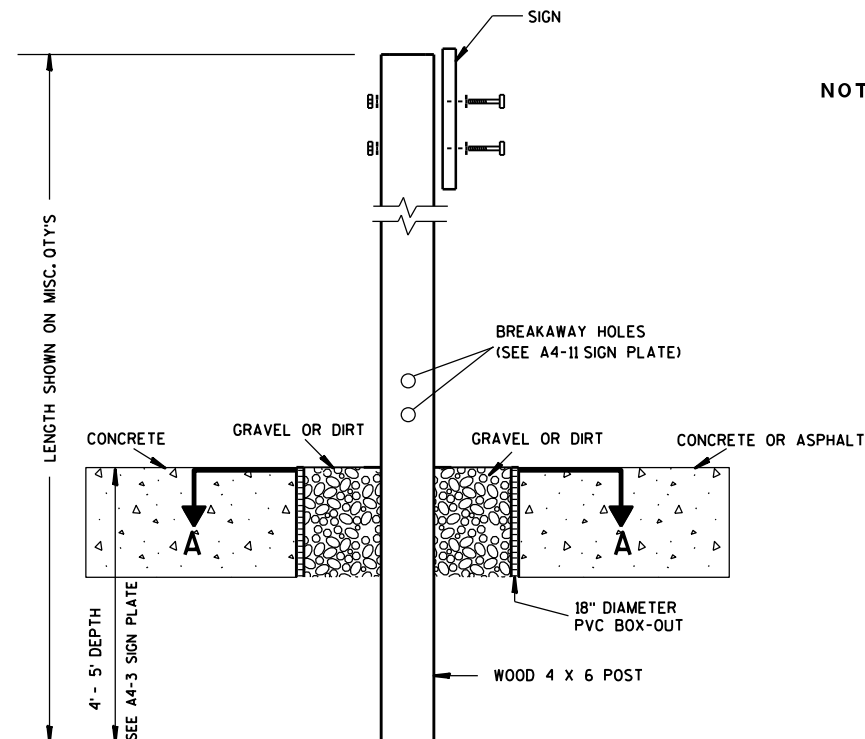
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 100

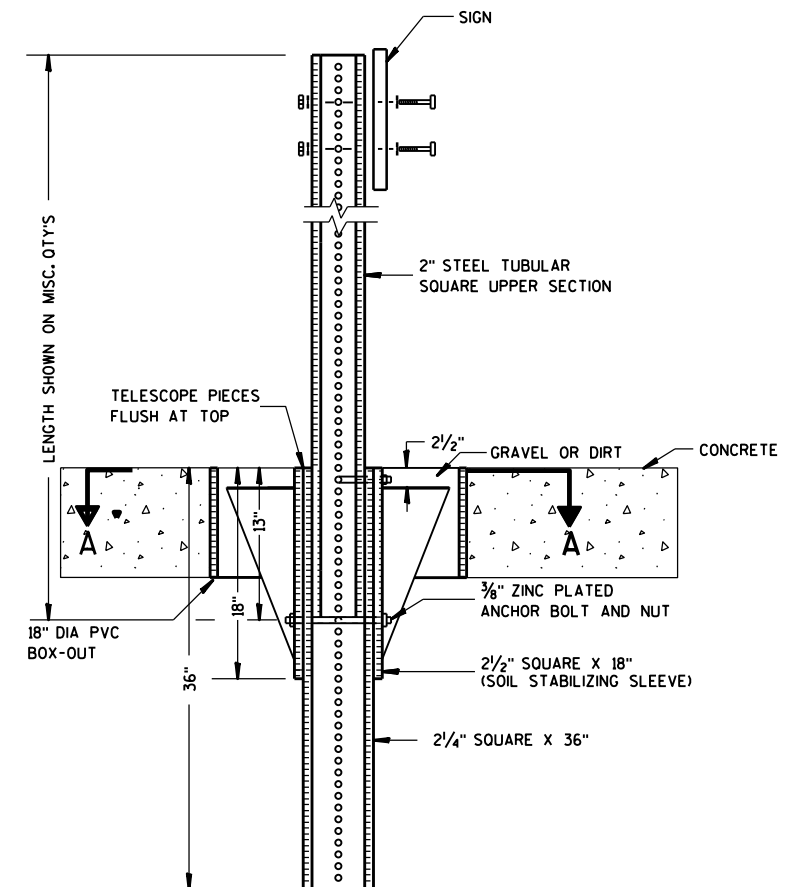
E



ELEVATION VIEW

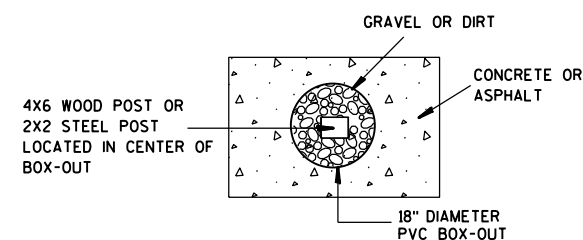
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES:**
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

**SIGN POST
BOX-OUTS
A4-3B**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLAT 101 A4-3B.1

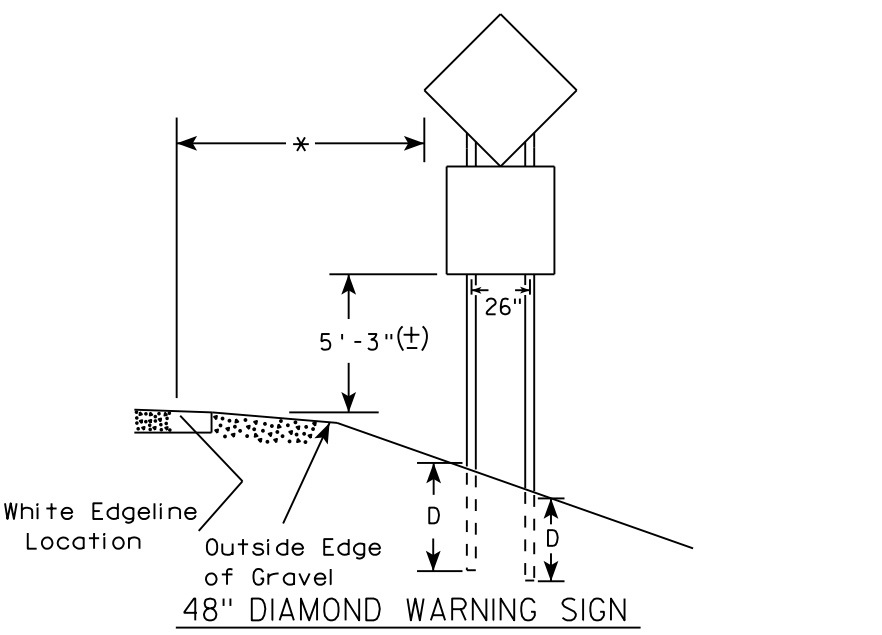
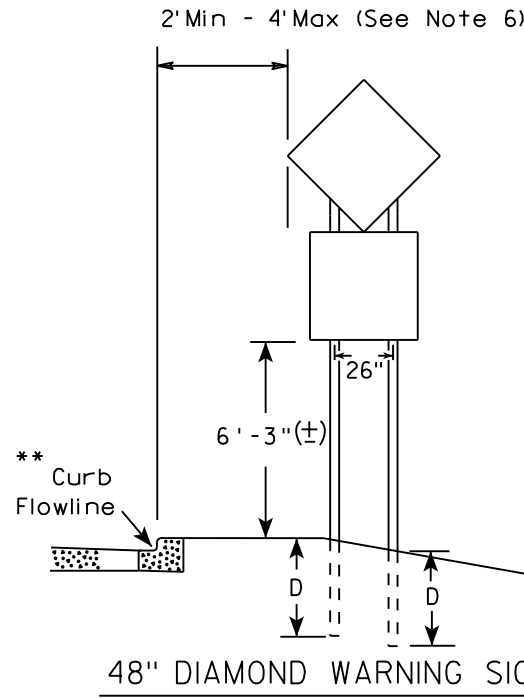
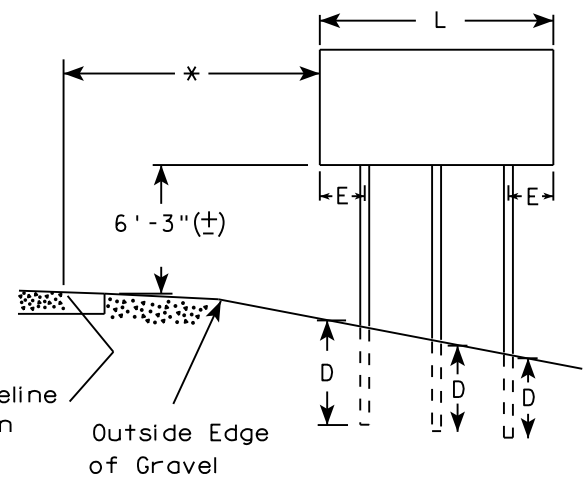
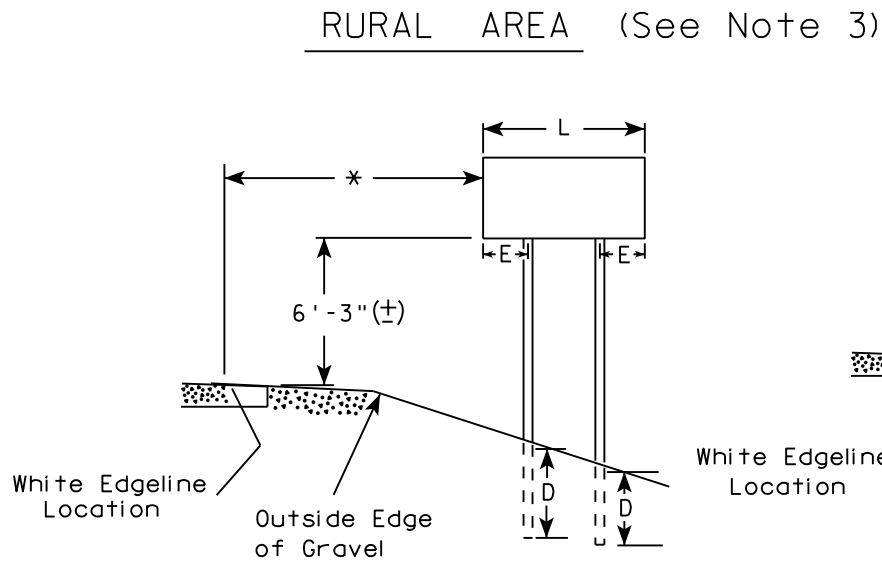
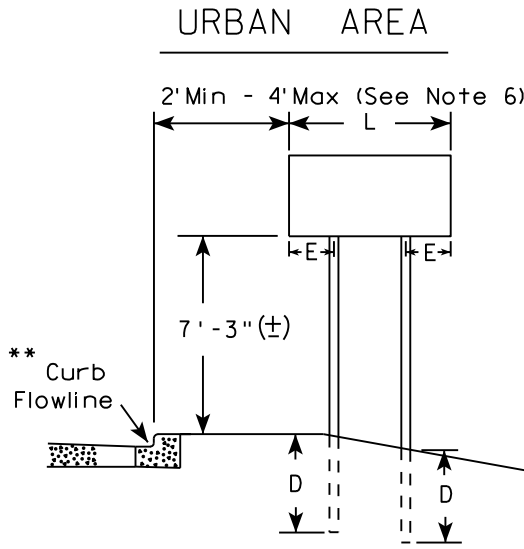
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



- GENERAL NOTES
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. J-Assemblies are considered to be one sign for mounting height.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) 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 and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

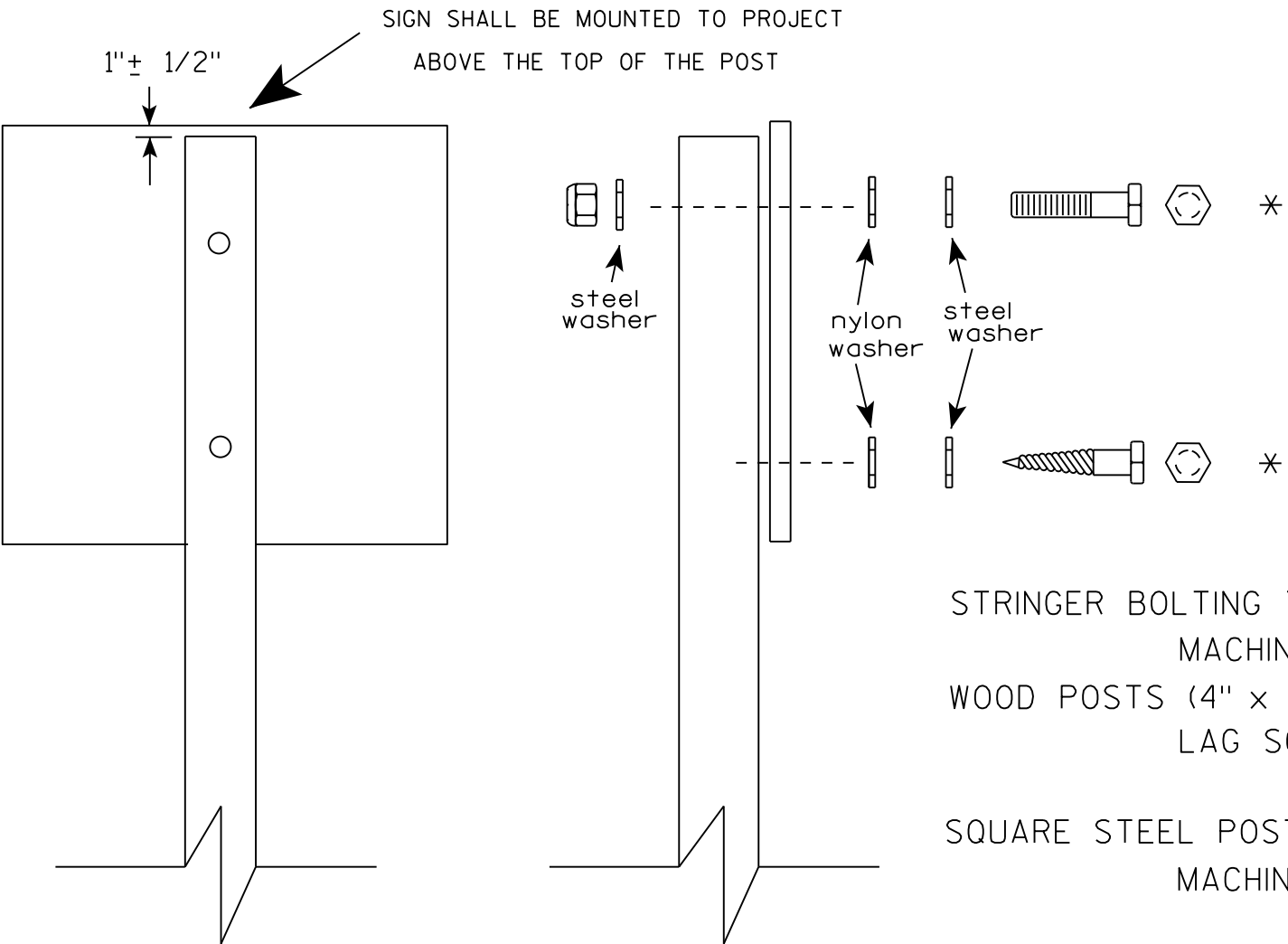
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15



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.

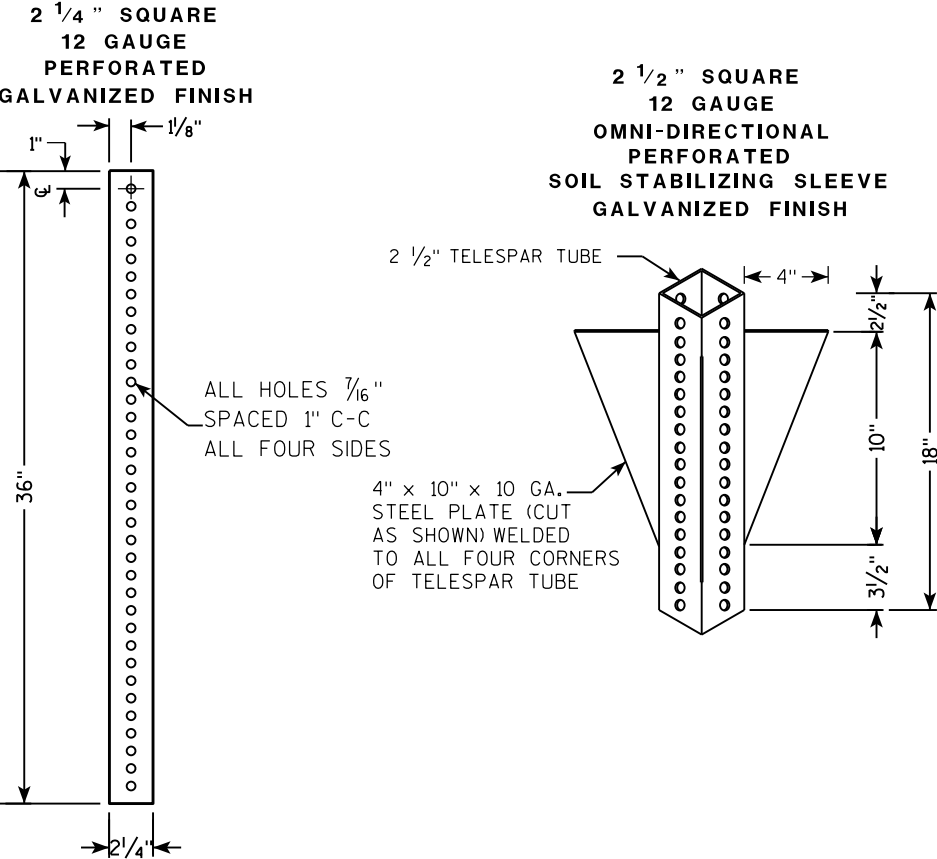
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- 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

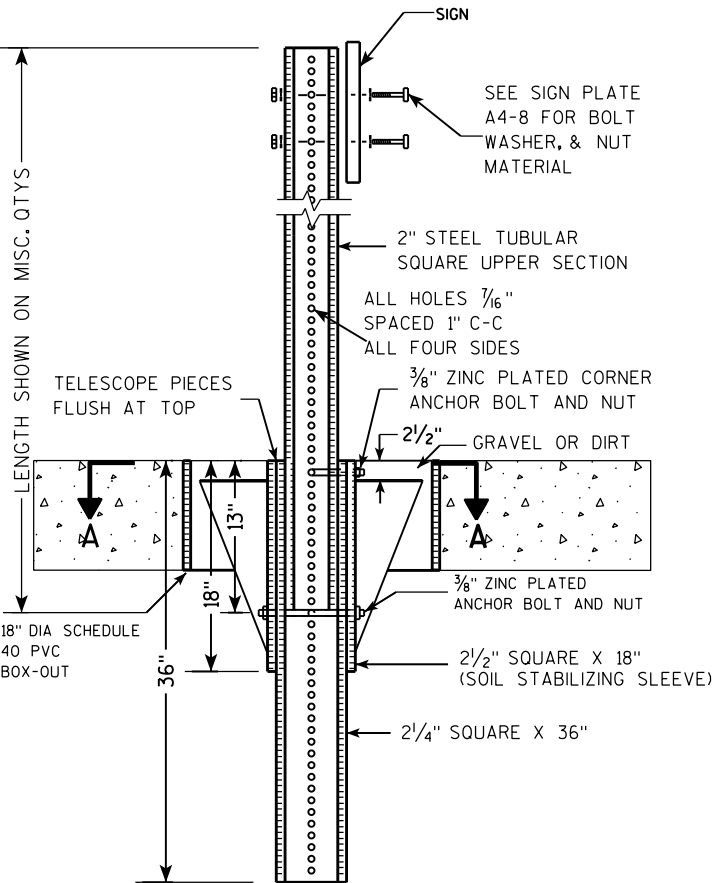
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require 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 8/11/16	PLATE NO. A4-8.8 103

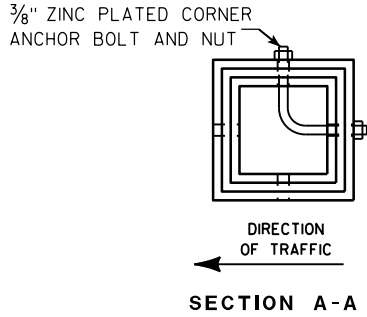
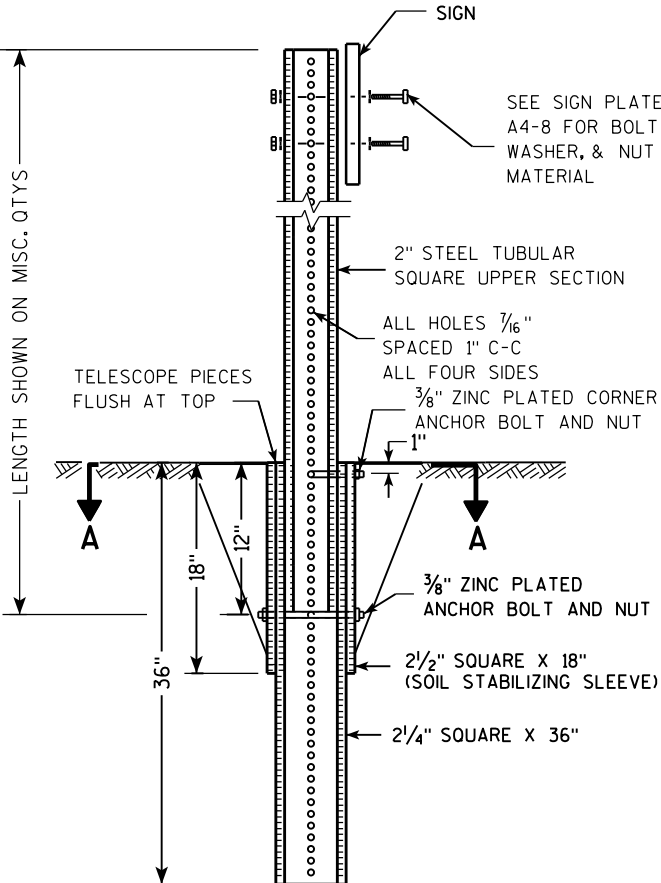
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)



Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

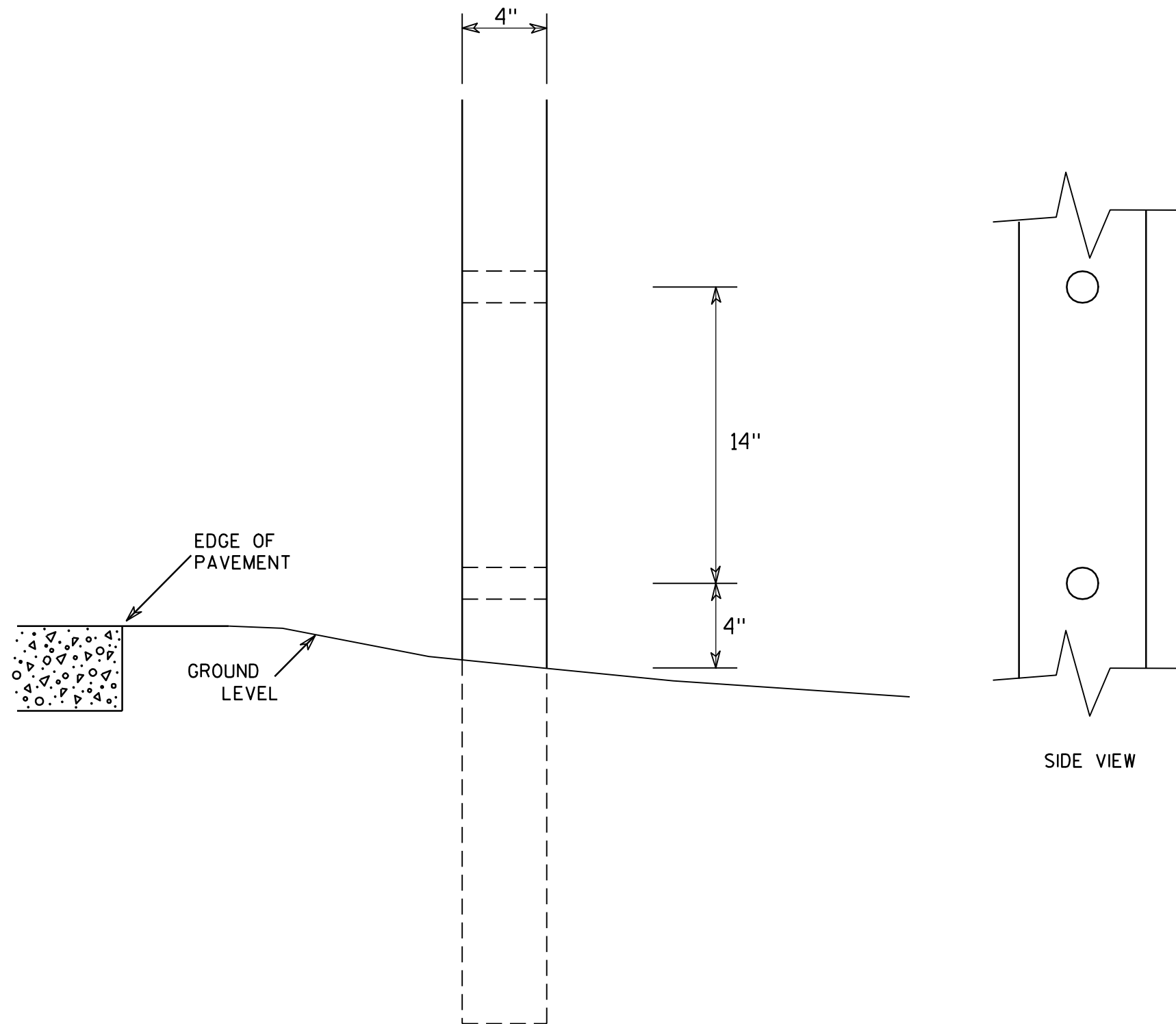
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLAT 104 14-9.9

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

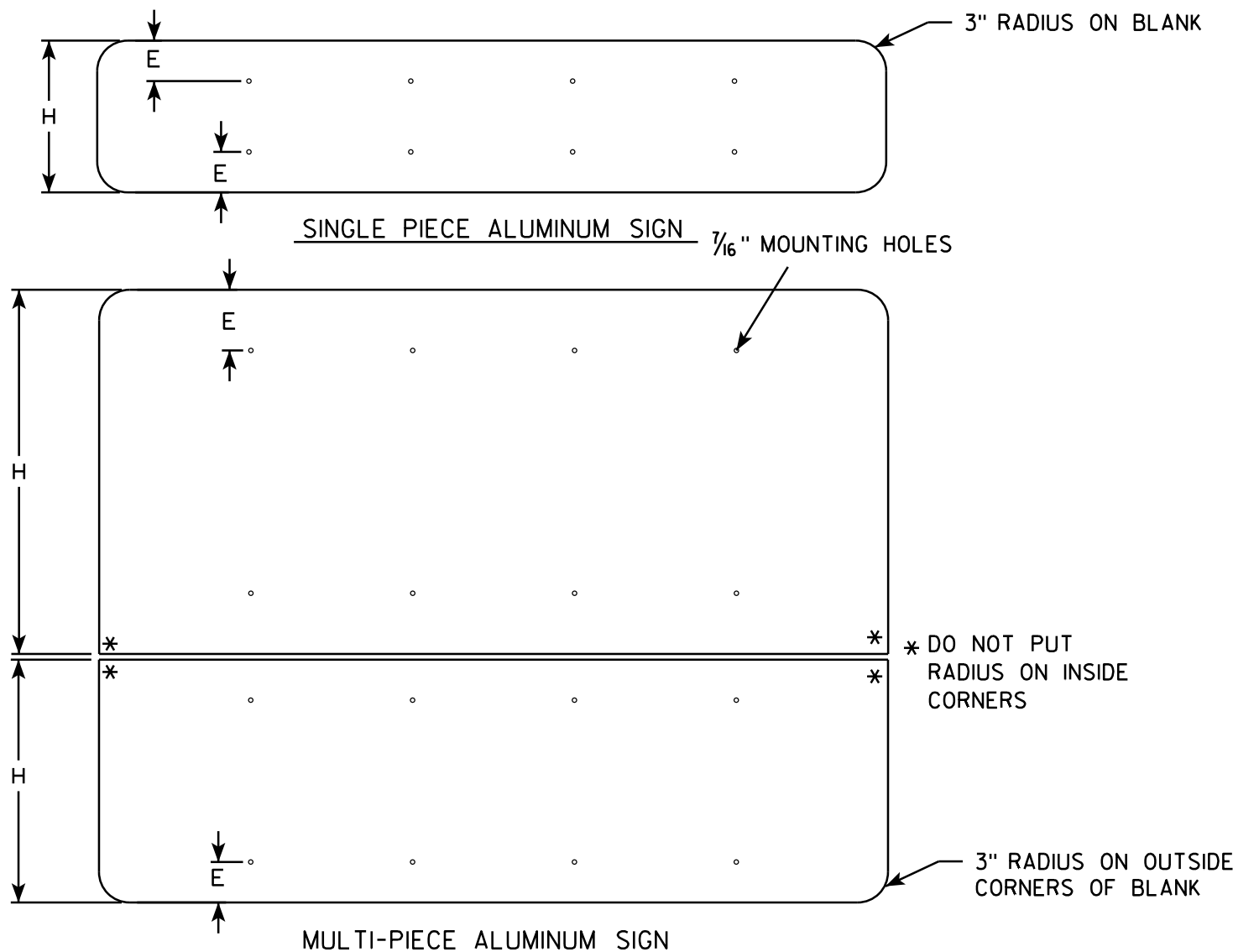
4 X 6 WOOD POST
MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Chester J. Spang*
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

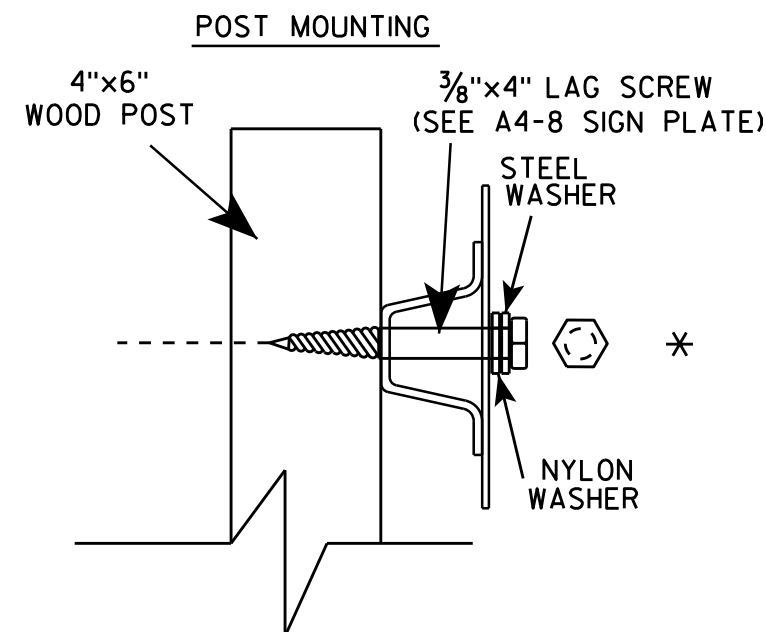
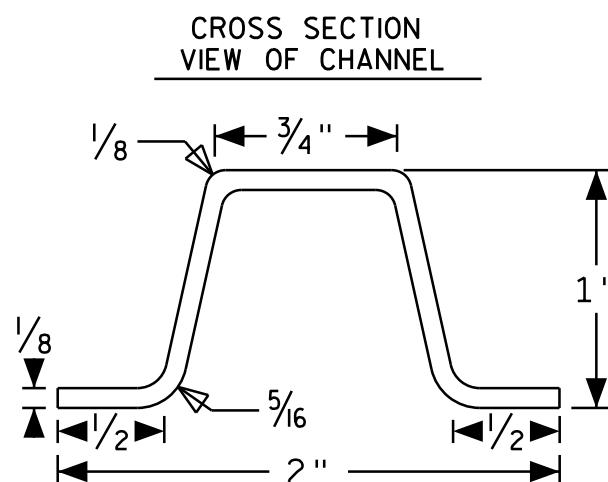
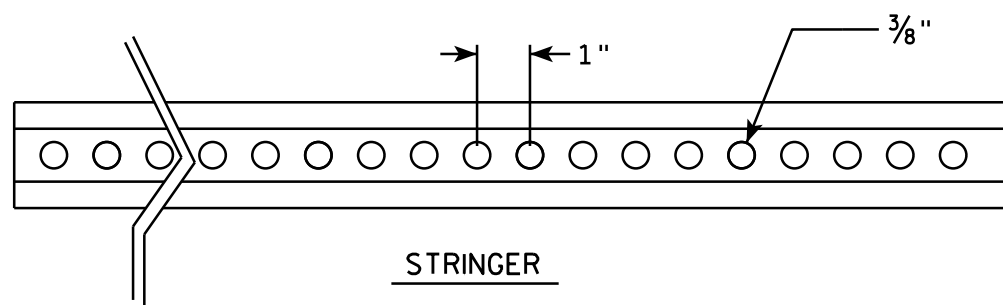
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 105	E
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GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

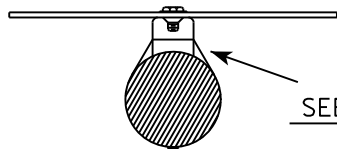
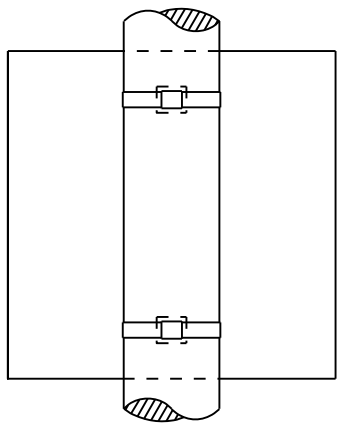
SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES			
78"	72"	2	16"	15"	31"	47"	63"
84"	72"	2	17"	16 1/2"	33 1/2"	50 1/2"	67 1/2"
90"	72"	2	18"	18"	36"	54"	72"
96"	90"	2	19"	19 1/2"	38 1/2"	57 1/2"	76 1/2"
102"	90"	2	20"	21"	41"	61"	81"
108"	90"	2	21"	22 1/2"	43 1/2"	64 1/2"	85 1/2"
114"	108"	3	15"	12"	27"	42"	57" 72" 87" 102"
120"	108"	3	16"	12"	28"	44"	60" 76" 92" 108"
126"	108"	3	17"	12"	29"	46"	63" 80" 97" 114"
132"	126"	3	18"	12"	30"	48"	66" 84" 102" 120"
138"	126"	3	19"	12"	31"	50"	69" 88" 107" 126"
144"	126"	3	20"	12"	32"	52"	72" 92" 112" 132"



SIGN STRINGER MOUNTING REQUIREMENTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLATE No A4-18.1 106

BANDING

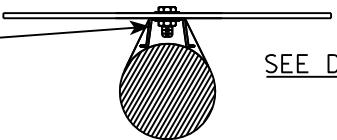
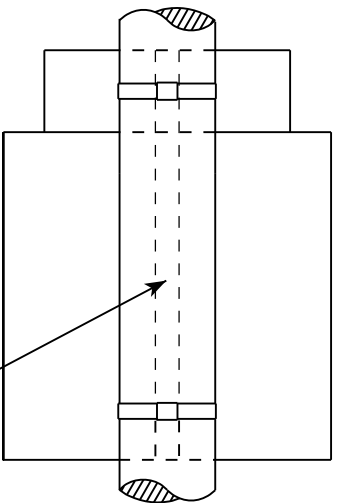
SINGLE SIGN



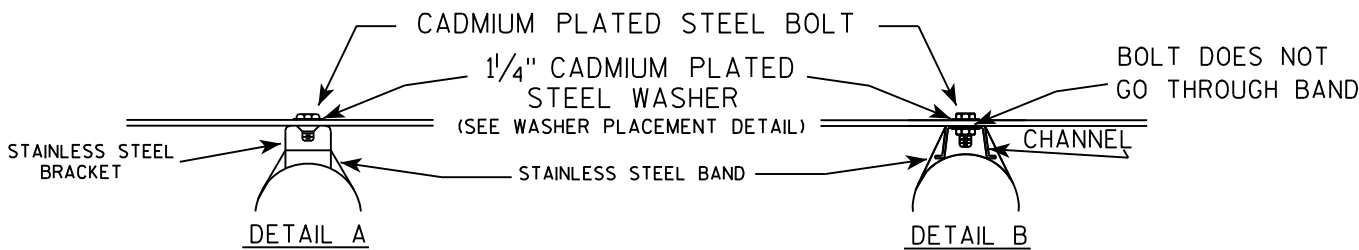
SEE DETAIL A

CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

"J" ASSEMBLY



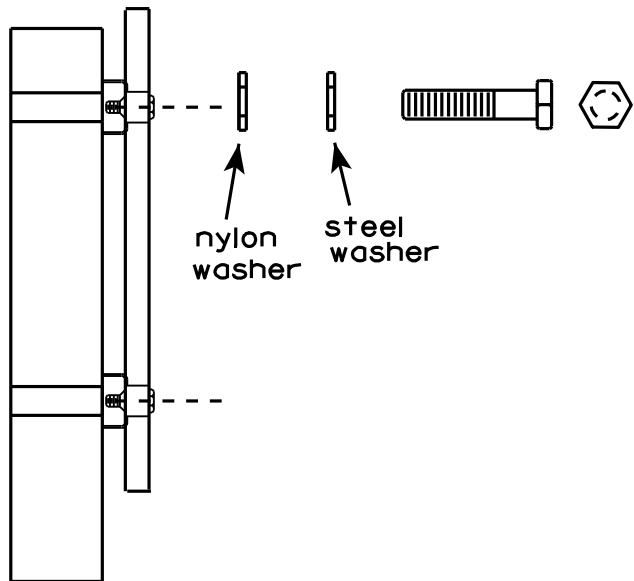
SEE DETAIL B



GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.

WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 8/16/13

PLATE NO. A5-9.3

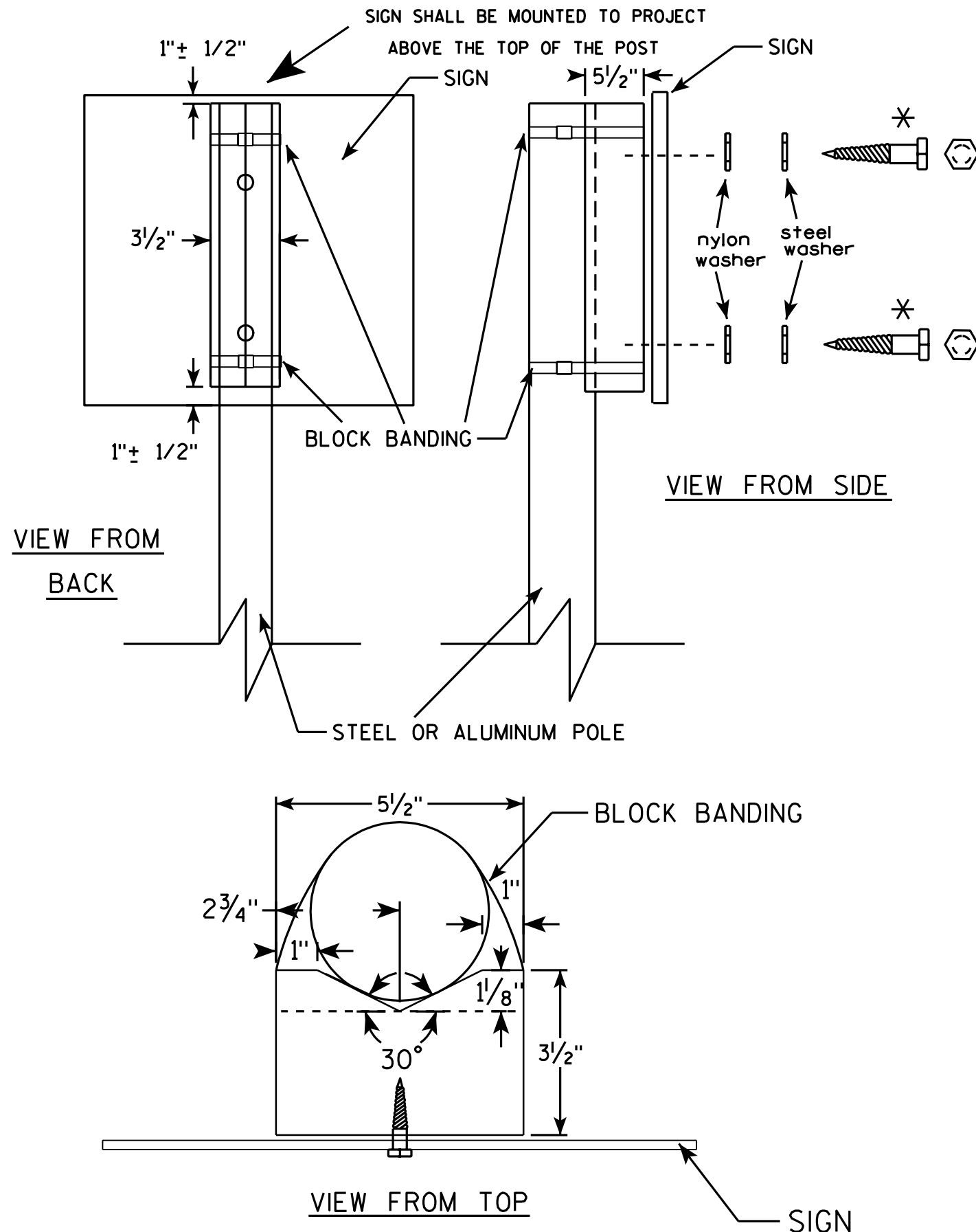
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 107

E



GENERAL NOTES

1. WOOD 4"x6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
 - b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
 - c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

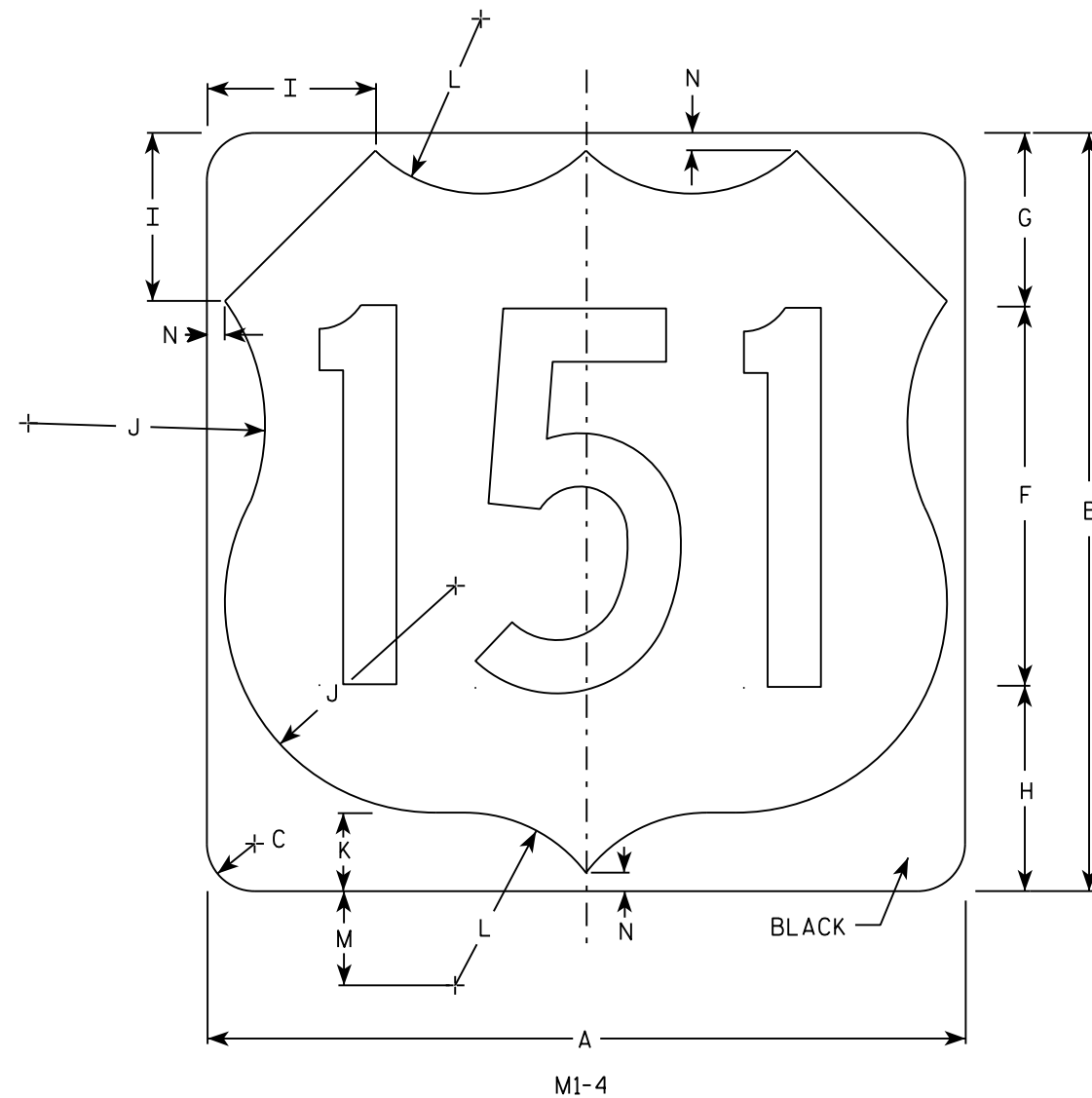
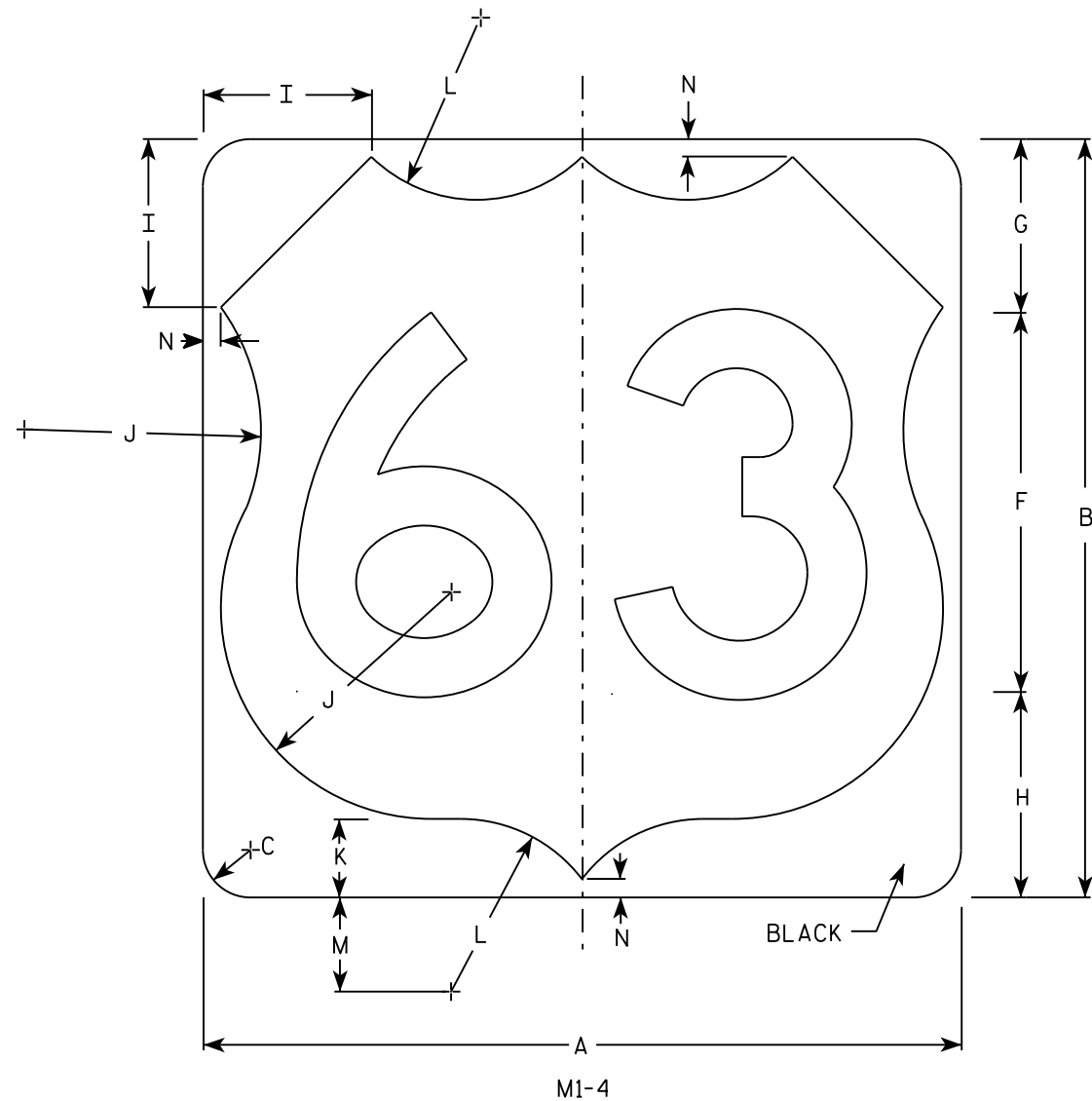
PROJECT NO:

SHEET NO: 108

E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	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	Areq. sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 109	E
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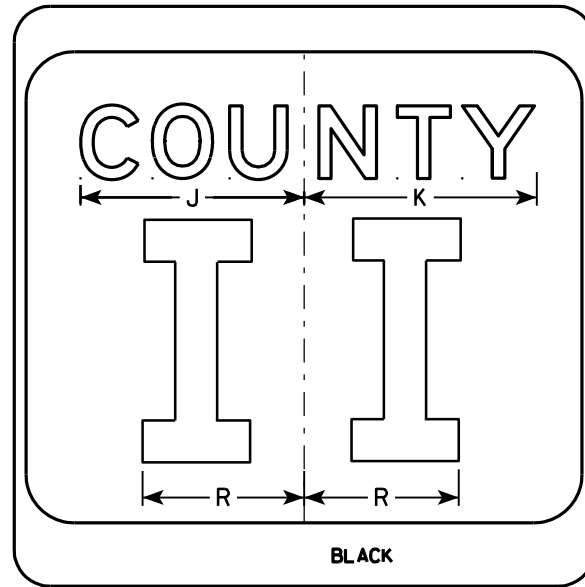
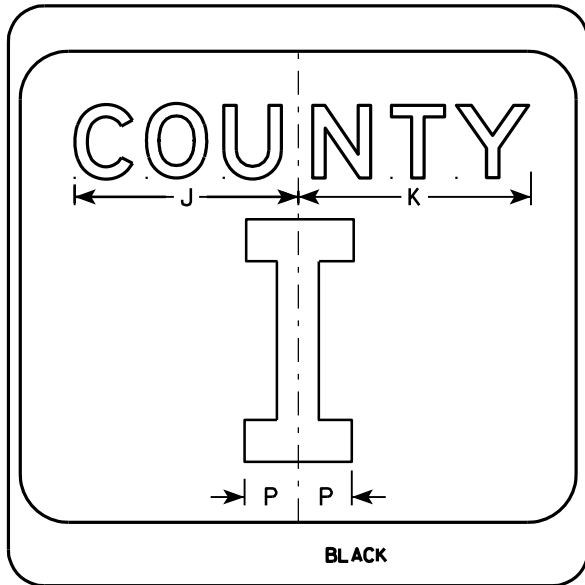
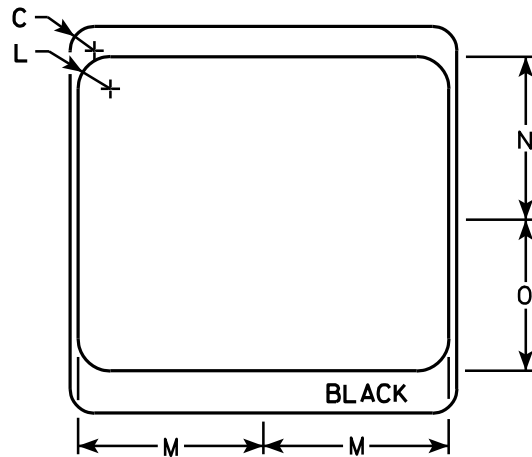
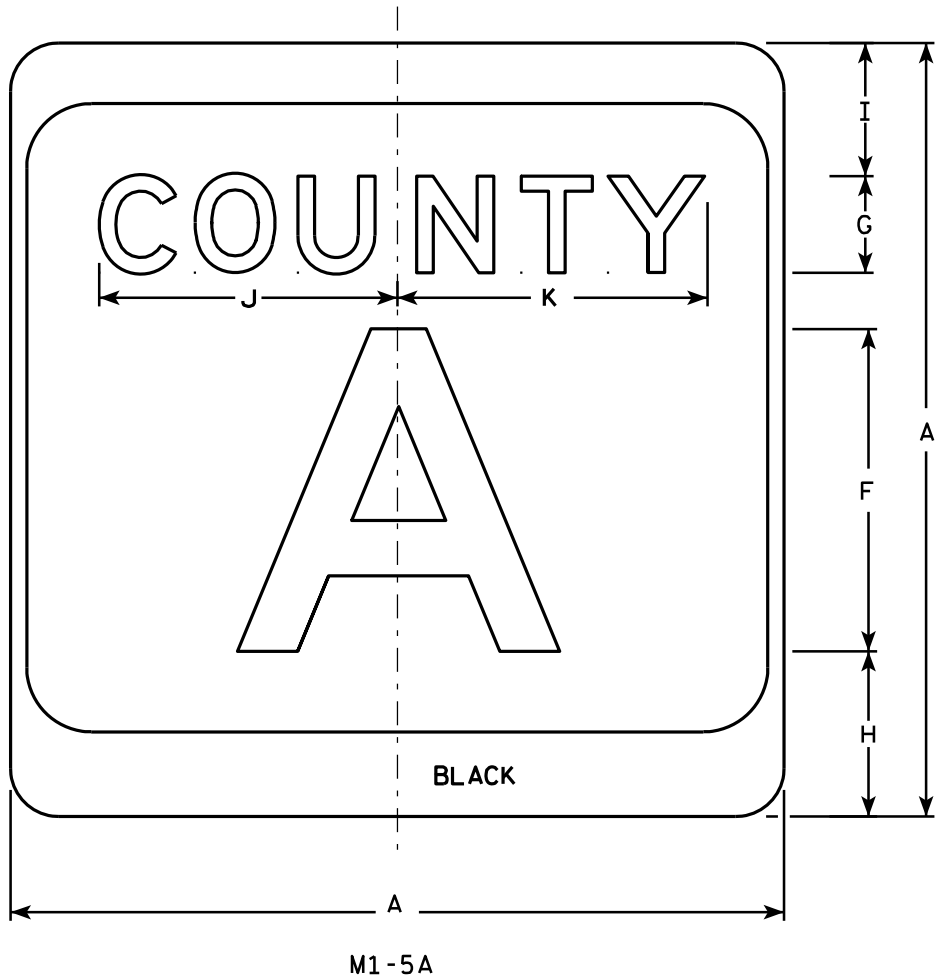
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-4.10

7



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

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 110	E
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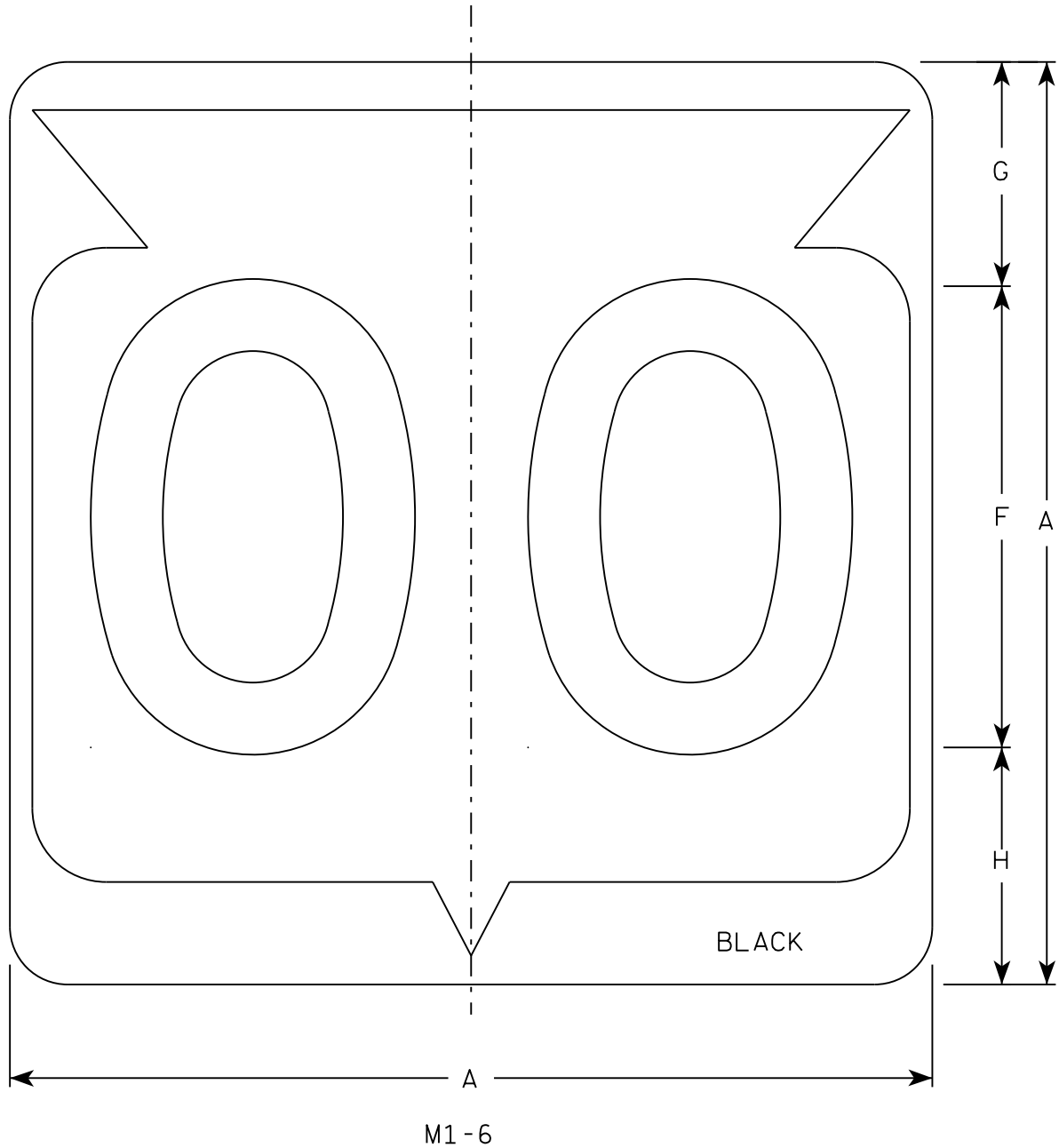
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

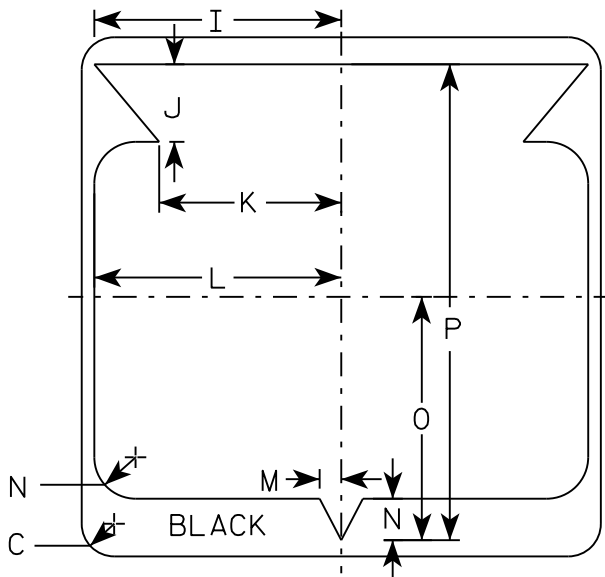
DATE 9/27/11 PLATE NO. M1-5A.8

7



NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - White
Message - Black
- 3. Message Series - D except 3 number signs 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.



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																											
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
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
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
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

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 111

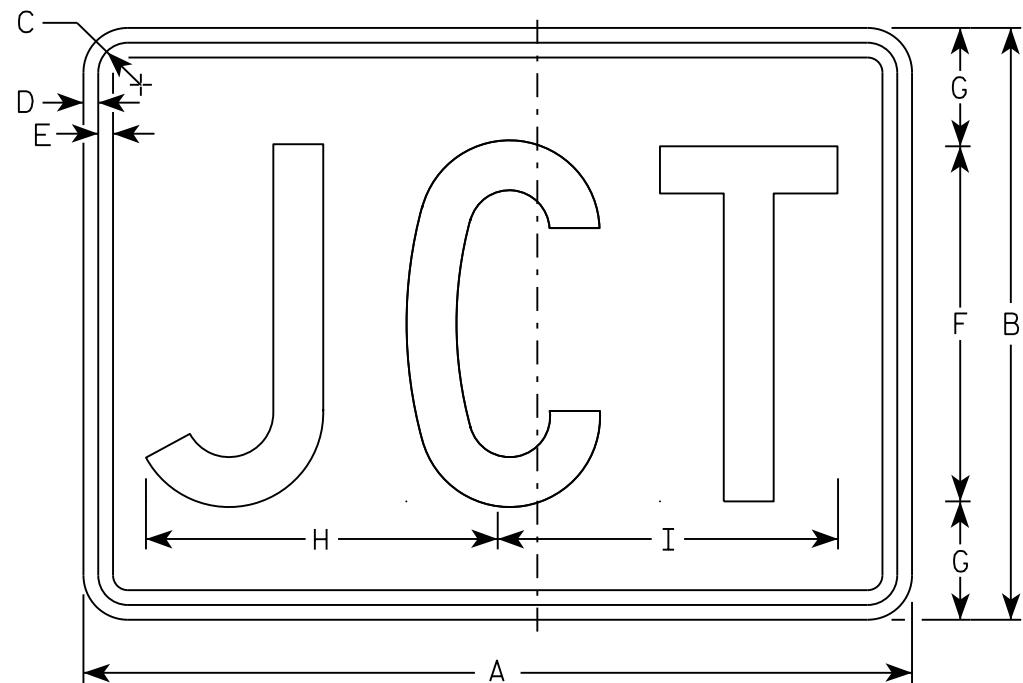
E

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

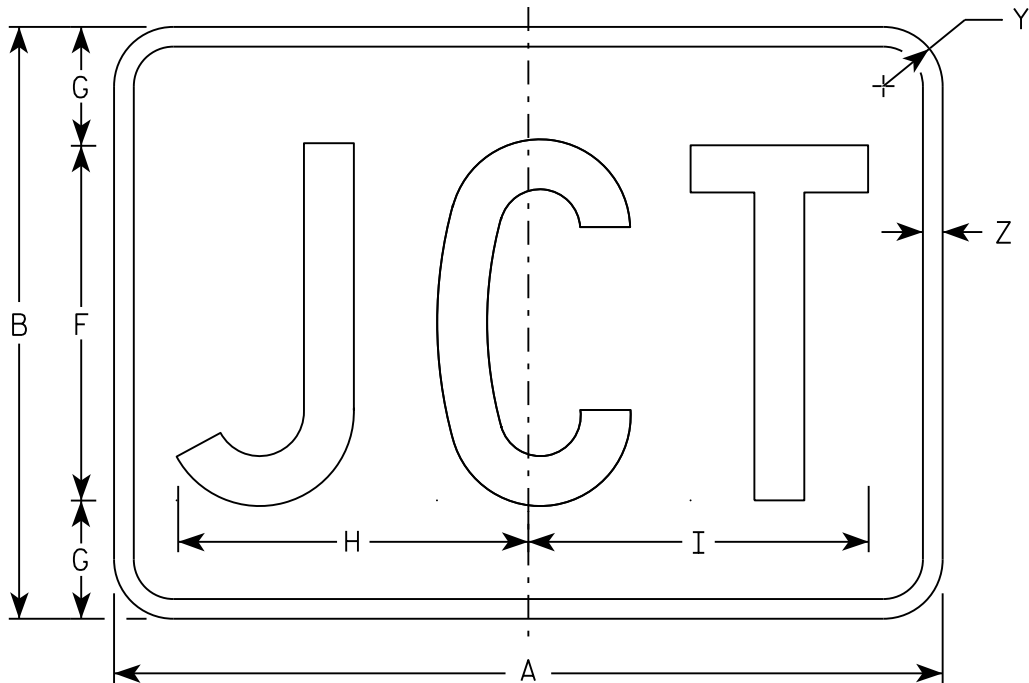
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

- 1. Sign is Type II - Type H
- 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
 Message - Black
 MB2-1 Background - Blue
 Message - White
 MK2-1 Background - Green
 Message - White
 MM2-1 Background - White
 Message - Green
 MN2-1 Background - Brown
 Message - White
 MP2-1 Background - White
 Message - Blue
 MR2-1 Background - Brown
 Message - Yellow

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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
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
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
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

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

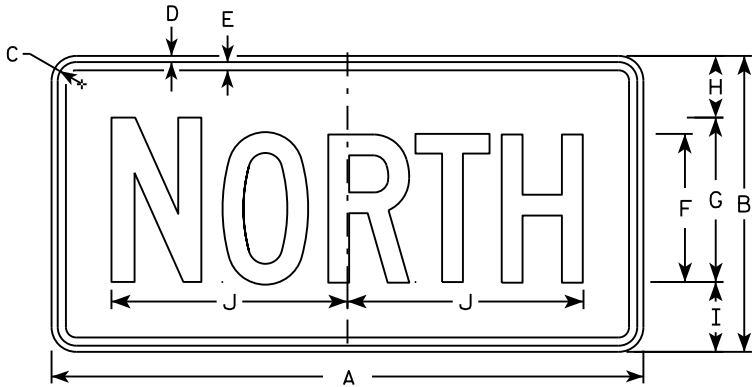
Matthew R. Rauch

For State Traffic Engineer

DATE 10/15/15

PLATE 112

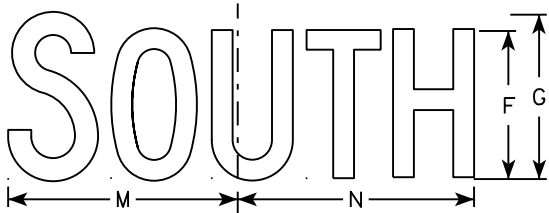
'2-1.12



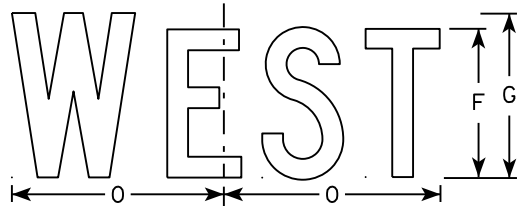
M3-1
MM3-1
MP3-1



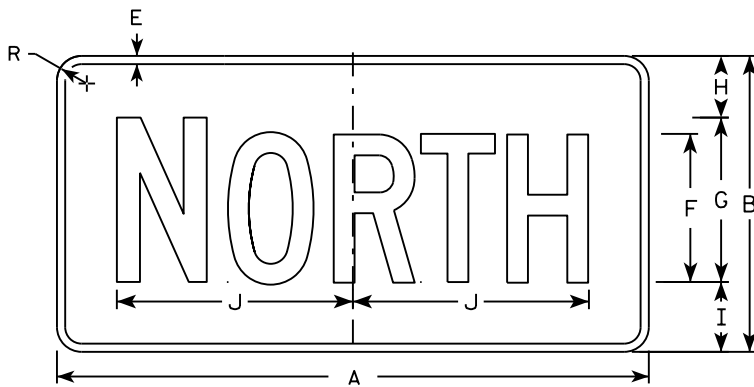
M3-2
MM3-2
MP3-2



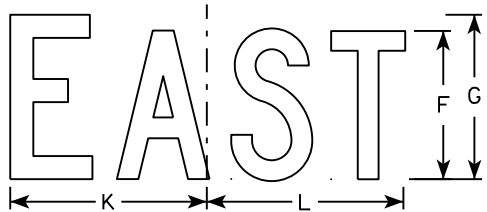
M3-3
MM3-3
MP3-3



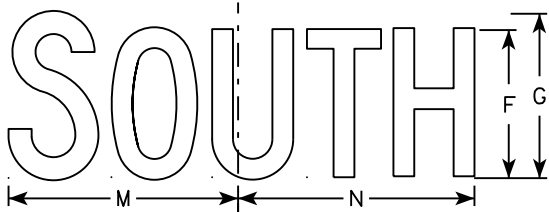
M3-4
MM3-4
MP3-4



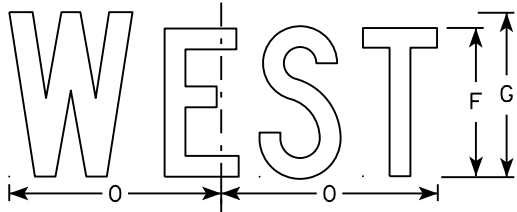
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
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
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
MP3-1 thru MP3-4 Background - White
Message - Blue
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

STANDARD SIGNS
M3-1 thru M3-4
SERIES

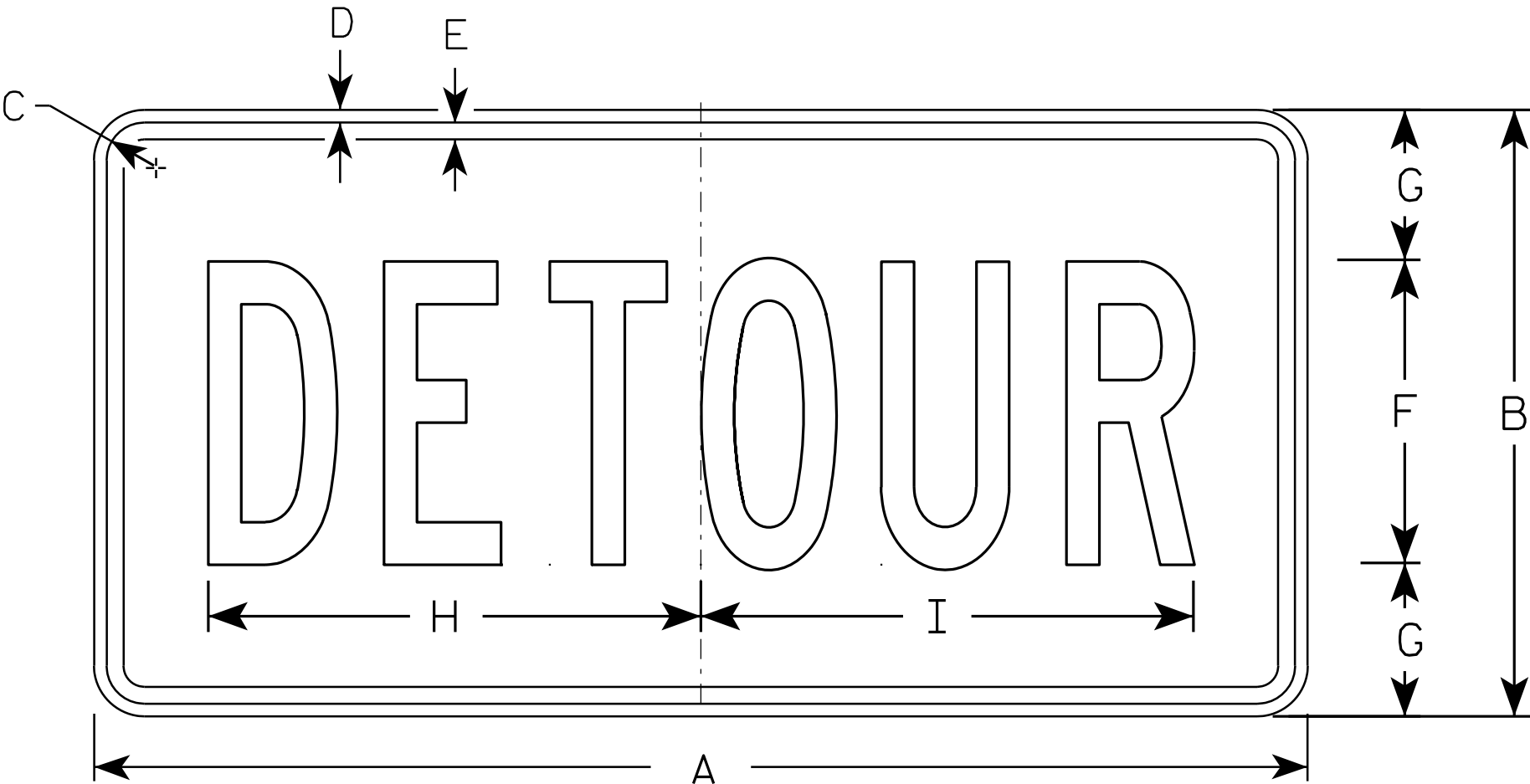
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. 113 M3-1.14

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - B
- 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.



M4 - 8

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	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

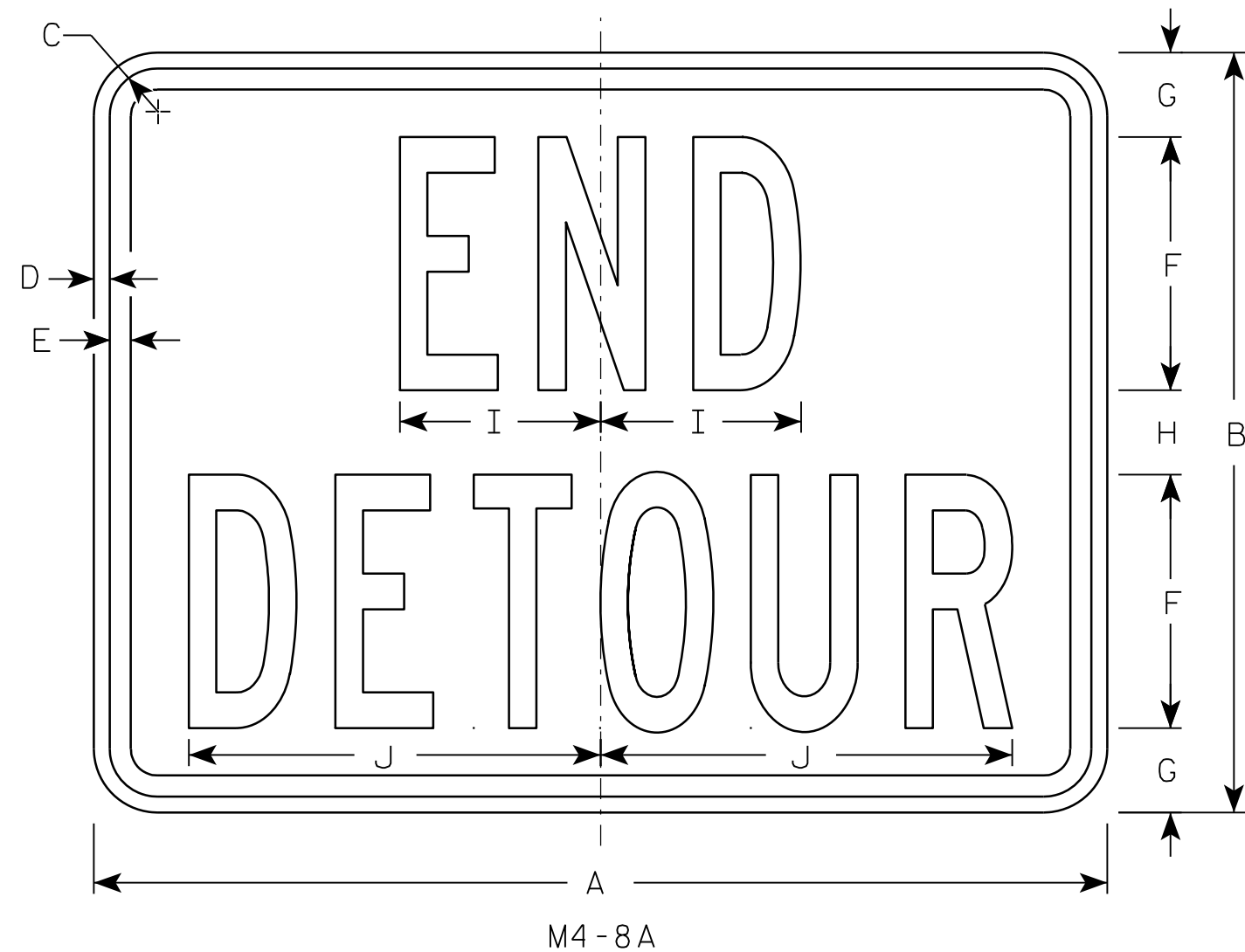
STANDARD SIGN
M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

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 - Orange
Message - Black
3. Message Series - B
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.

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																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

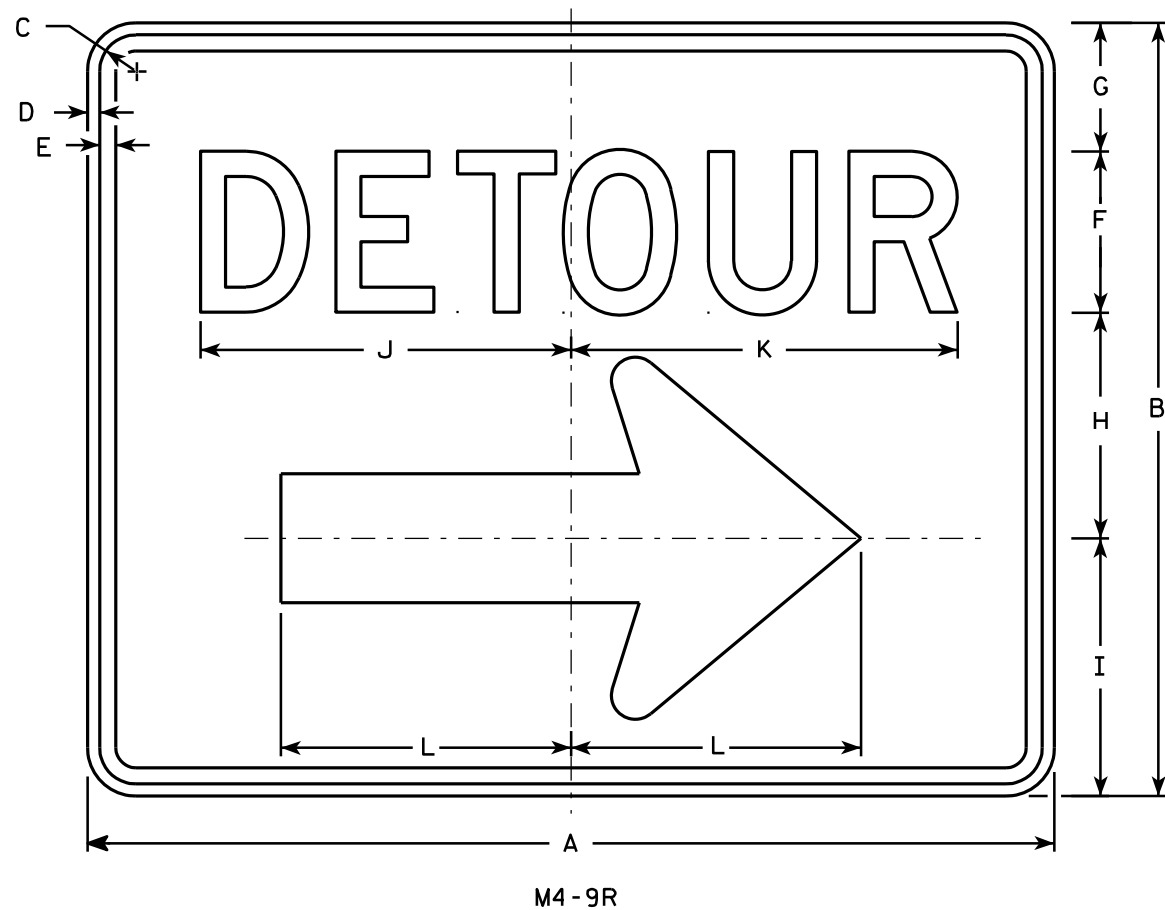
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 115	E
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STANDARD SIGN
M4-8A

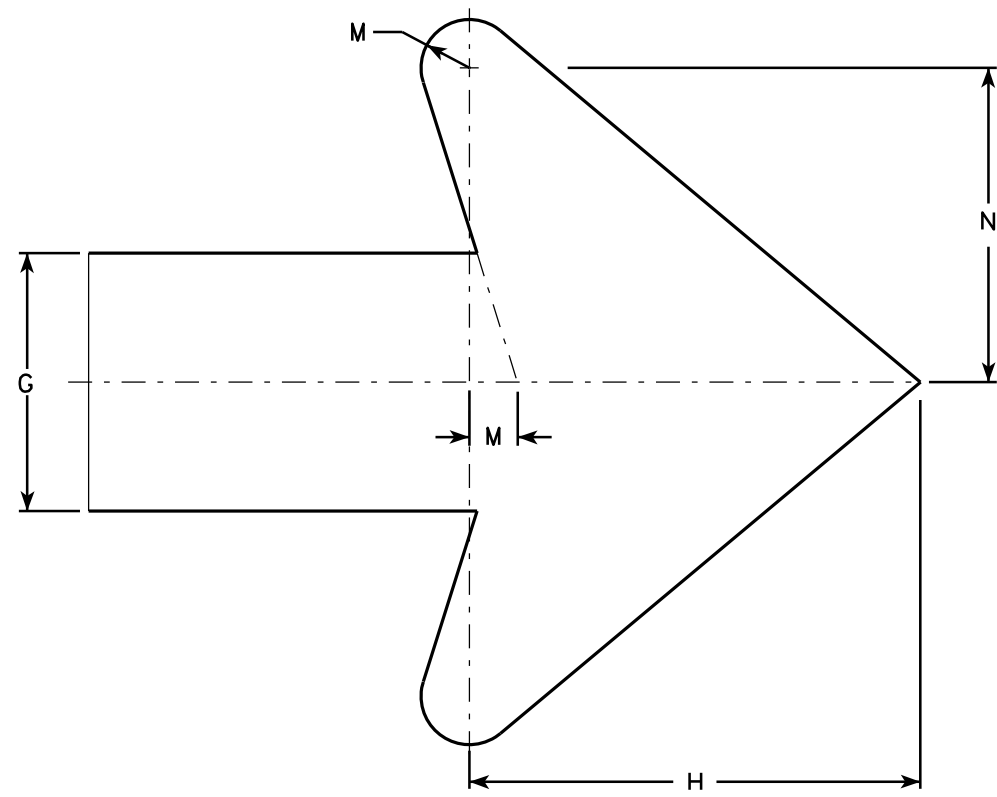
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2



- NOTES**
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 2. Color:
Background - Orange
Message - Black
 3. 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. M4-9L is the same as M4-9R 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	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

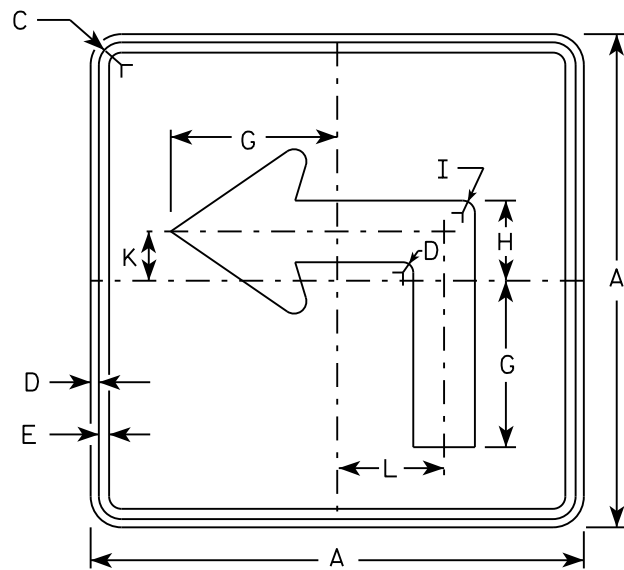
PROJECT NO:

HWY:

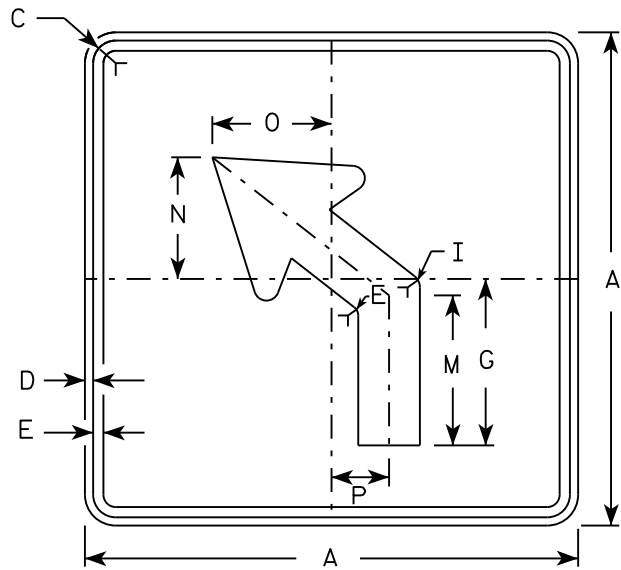
COUNTY:

SHEET NO: 116

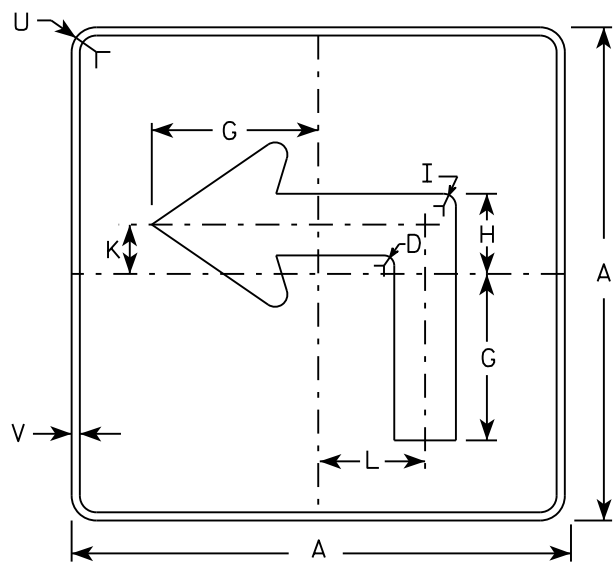
E



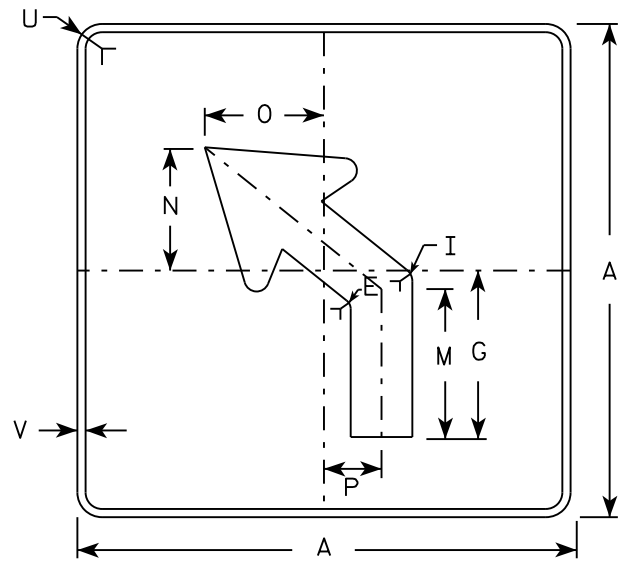
M5-1L
MM5-1L
M05-1L
MP5-1L



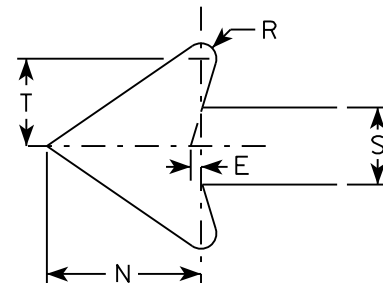
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- 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 |
| | Message - Black |
| MB5-1 and MB5-2 | Background - Blue |
| | Message - White |
| MK5-1 and MK5-2 | Background - Green |
| | Message - White |
| MM5-1 and MM5-2 | Background - White |
| | Message - Green |
| MN5-1 and MN5-2 | Background - Brown |
| | Message - White |
| M05-1 and M05-2 | Background - Orange - Type F Reflective |
| | Message - Black |
| MP5-1 and MP5-2 | Background - White - Type H Reflective |
| | Message - Blue |
| MR5-1 and MR5-2 | Background - Brown |
| | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

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	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
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
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
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

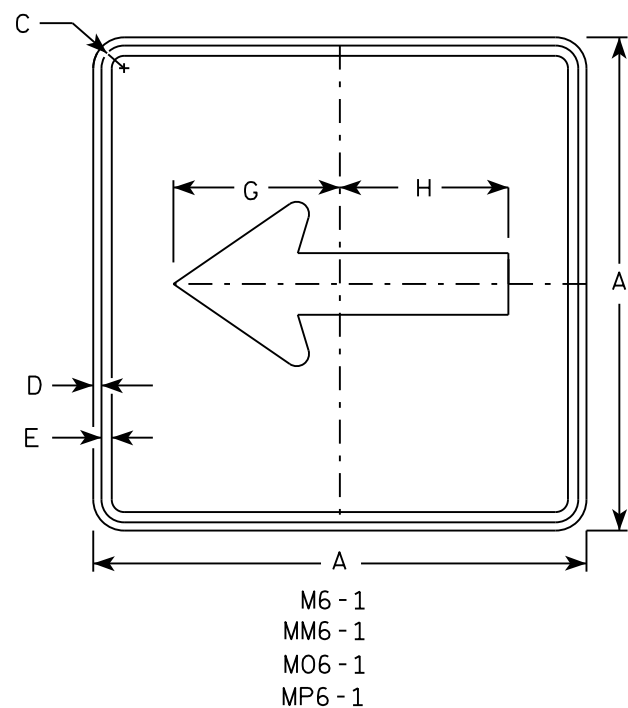
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M5-1 & M5-2

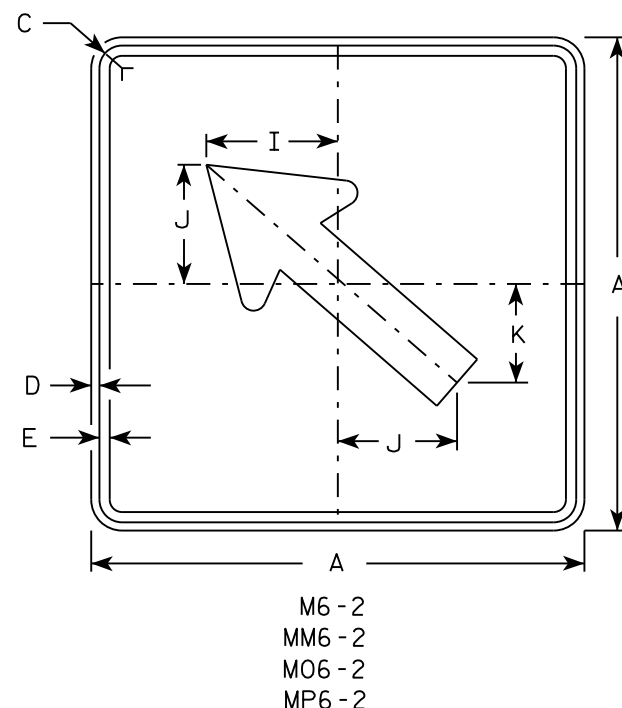
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

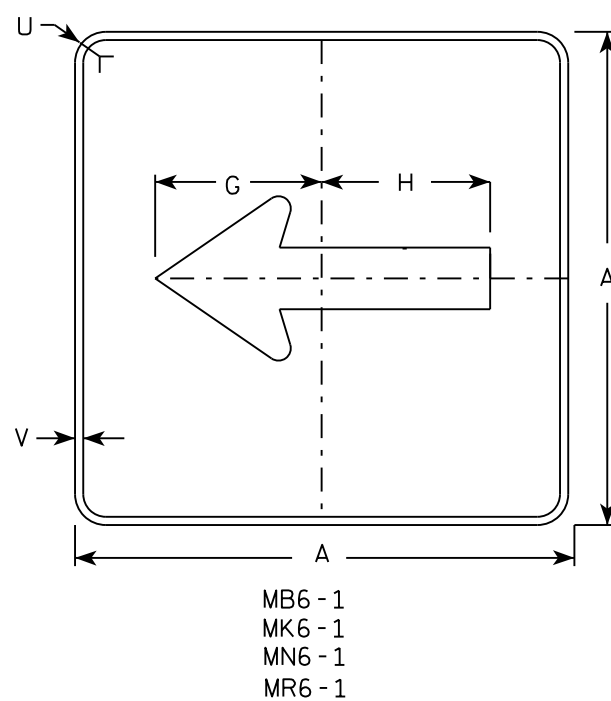
DATE 10/15/15 PLATE 117 M5-1.13



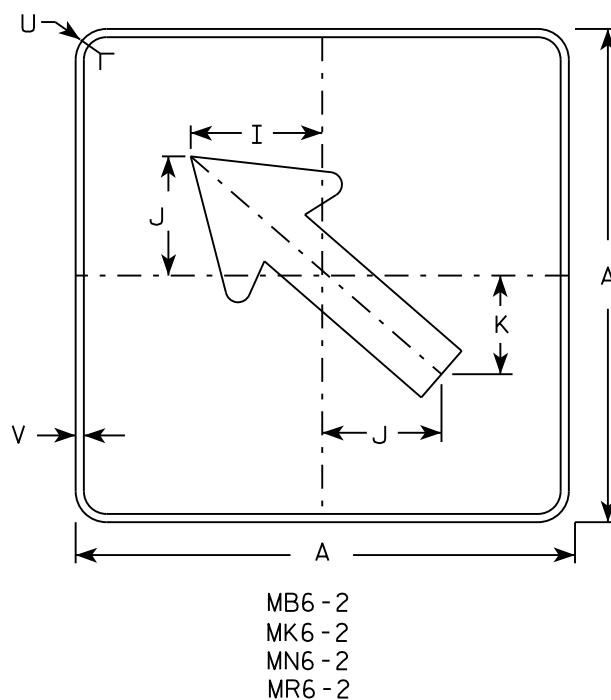
M6 - 1
MM6 - 1
MO6 - 1
MP6 - 1



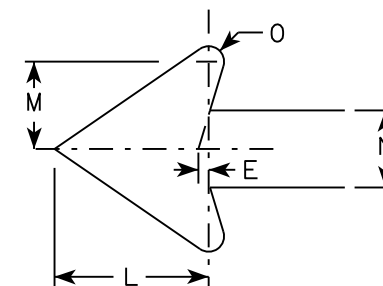
M6 - 2
MM6 - 2
MO6 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 2
MR6 - 2



NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
 - Background - See note 4
 - Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
MO6-1 and MO6-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

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	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
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
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
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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

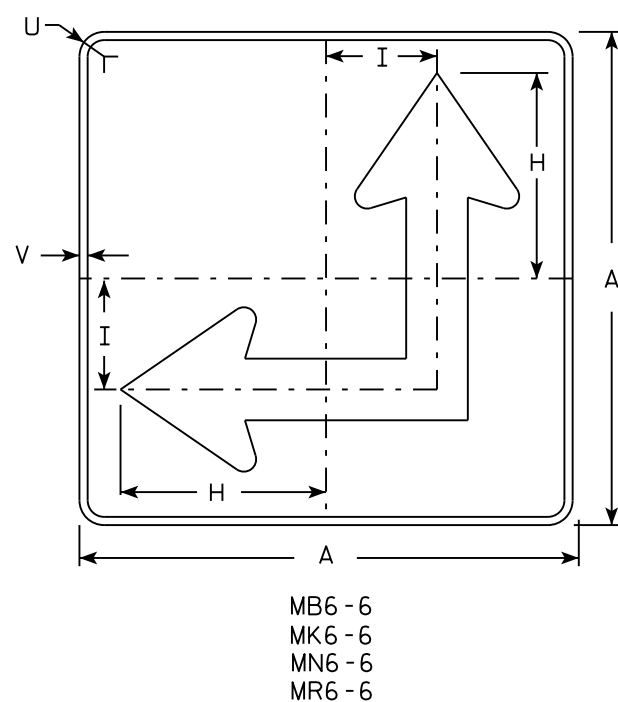
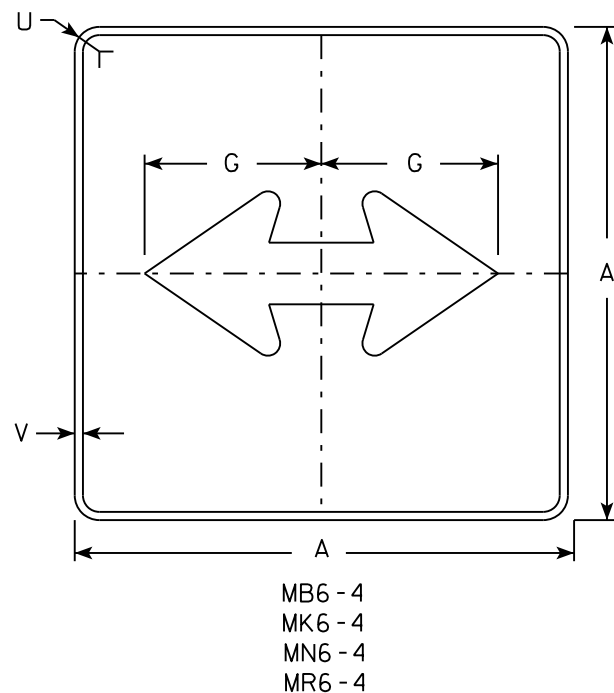
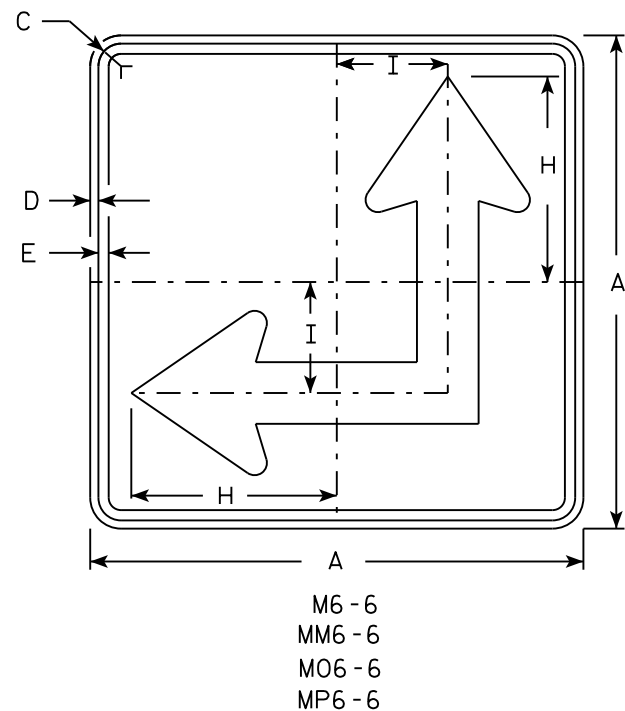
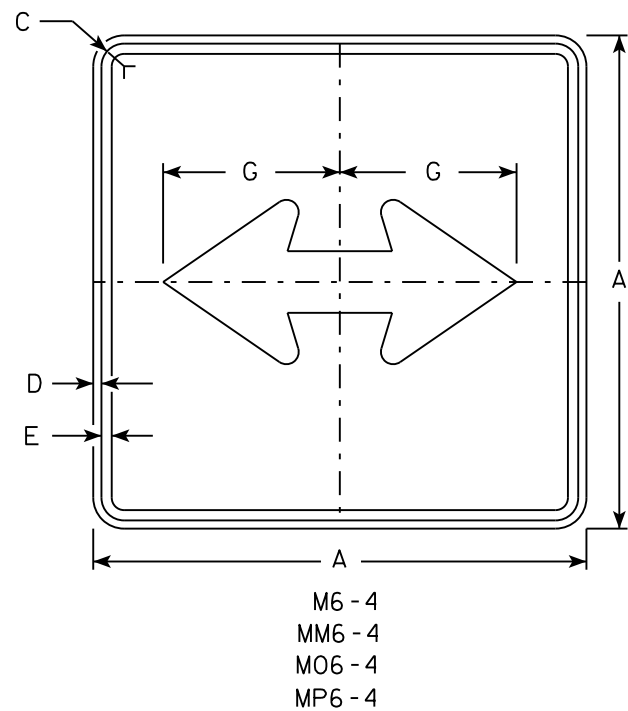
E

File Name : C:\CAEfiles\Projects\tr_stdlate\M61.DGN

PI NT DATE • 01-DEC-2015 17:57

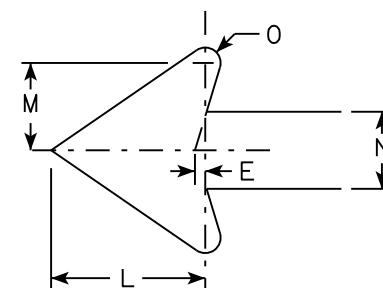
PL OT BY : \$\$ plotuser \$\$ PL OT NAME :

PI NT SCALF * 11 675051*1 000000



NOTES

- Signs are Type II - Type H except as Shown
- 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
MO6-4 and MO6-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and right.



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	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

PROJECT NO:	HWY:	COUNTY:	PLAT NO:	SHEET NO:	E
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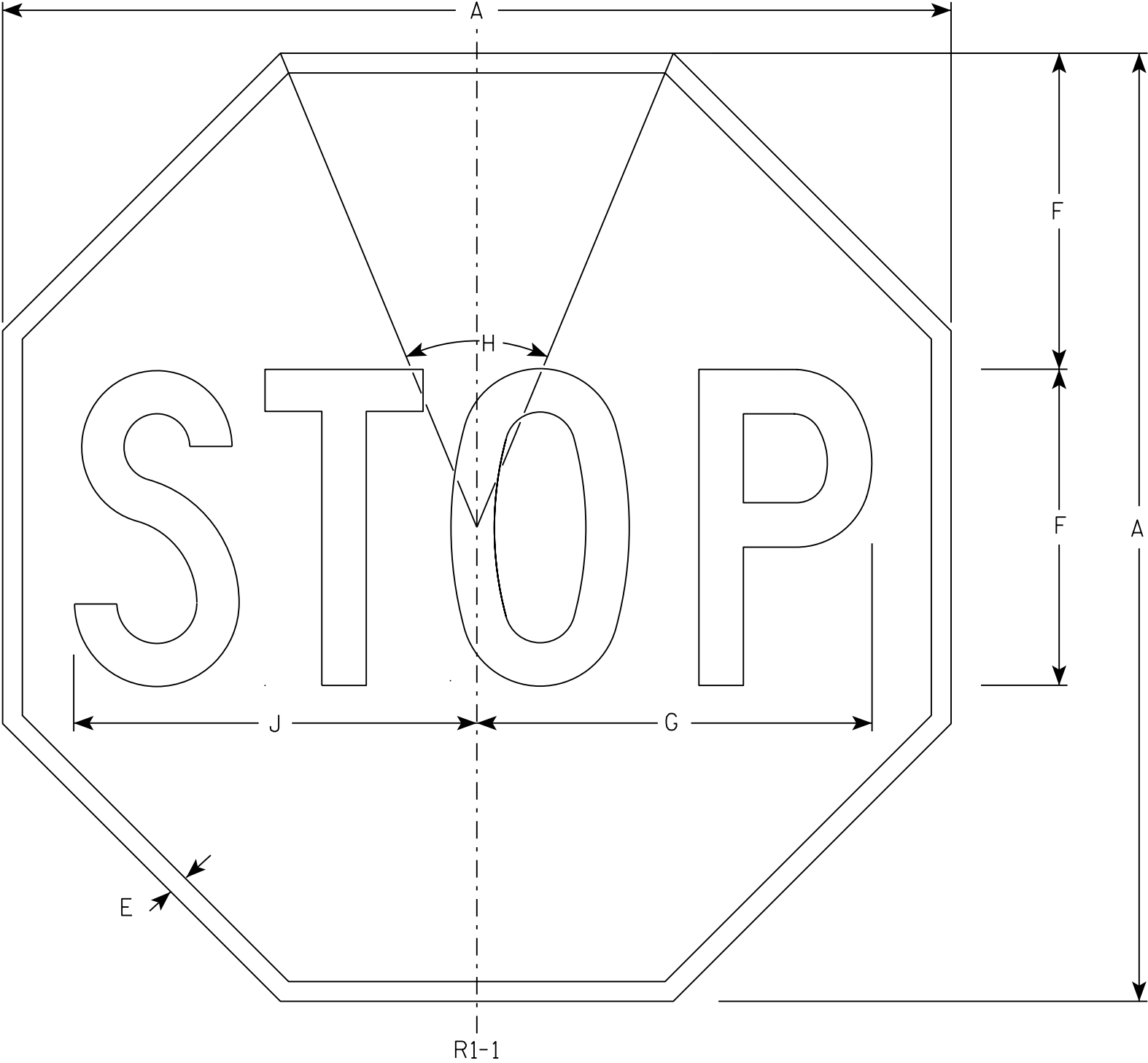
STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLAT 119 M6-4.10

7



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

7

R1-1

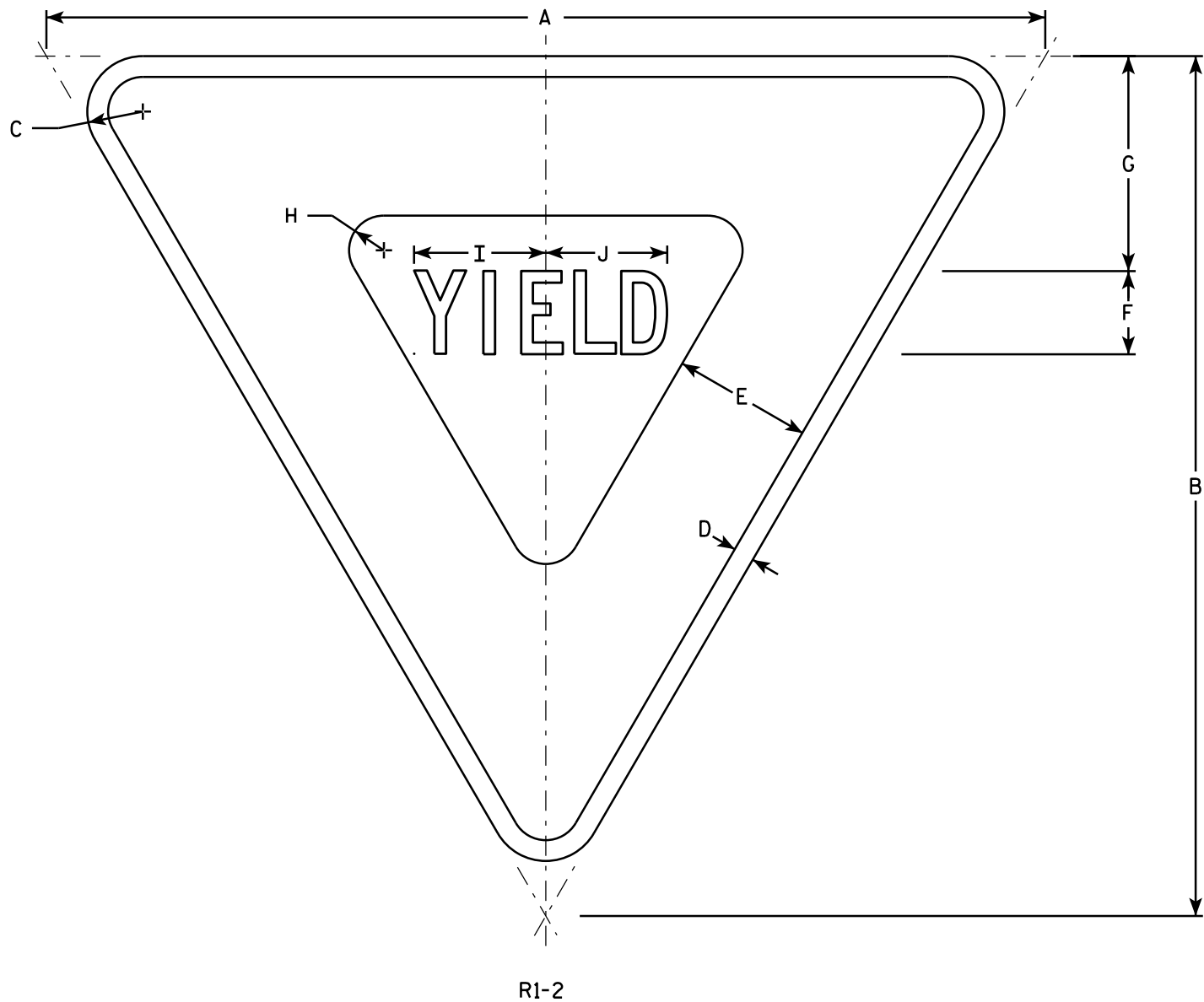
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°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

STANDARD SIGN
R1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13



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 - 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. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

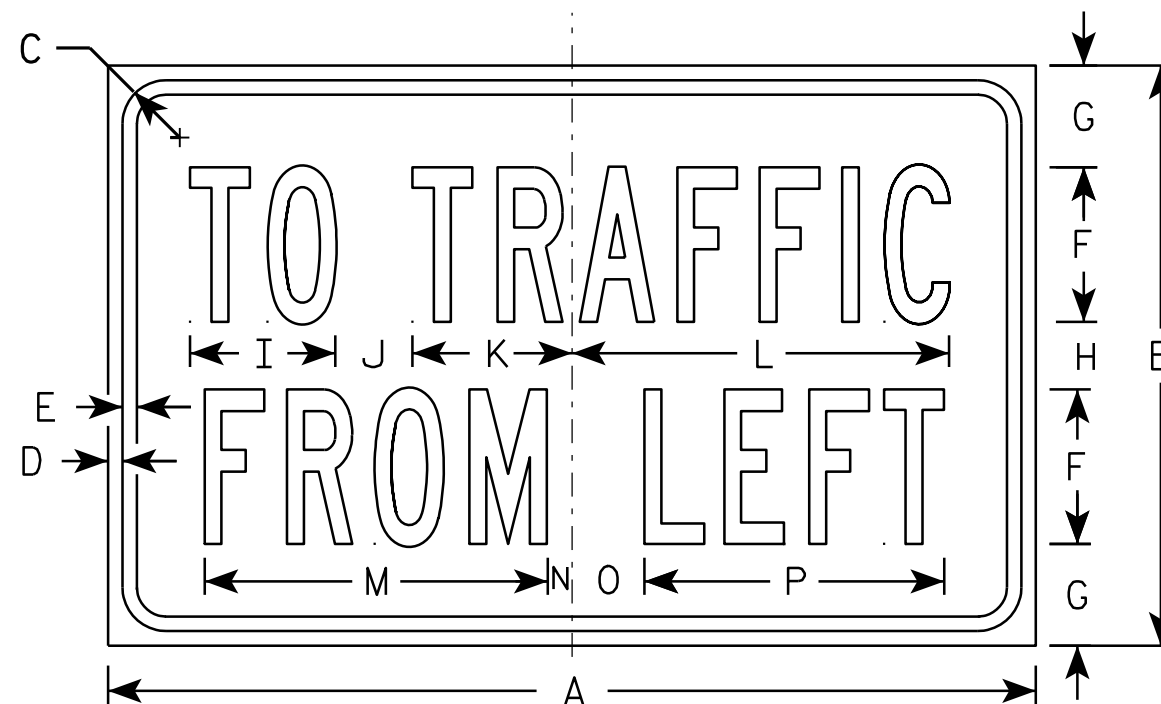
STANDARD SIGN

R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/13/14 PLATE 121 P1-2.12



R1-54

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 - 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	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

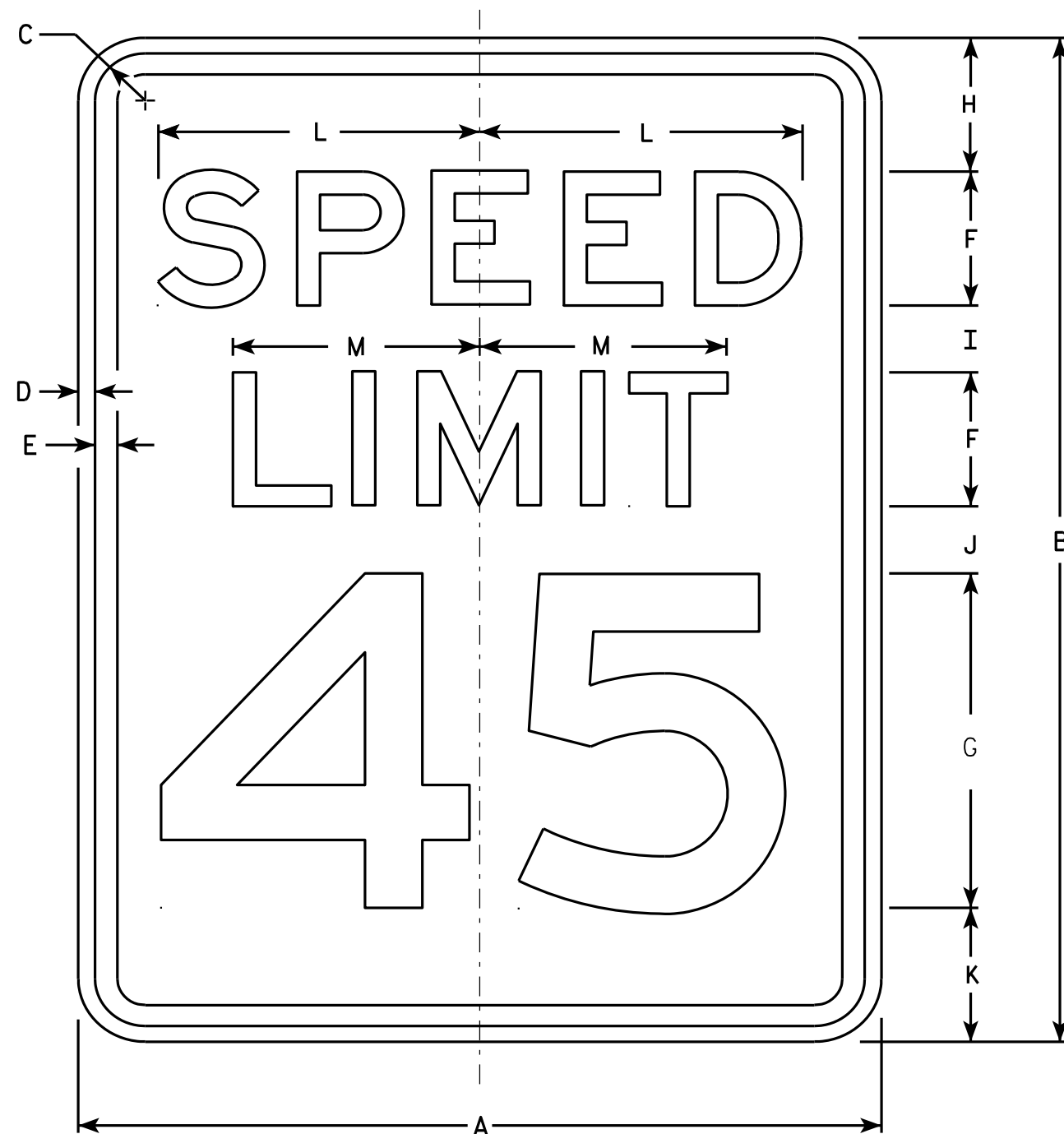
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R. Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO: HWY: COUNTY: SHEET NO: 122 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

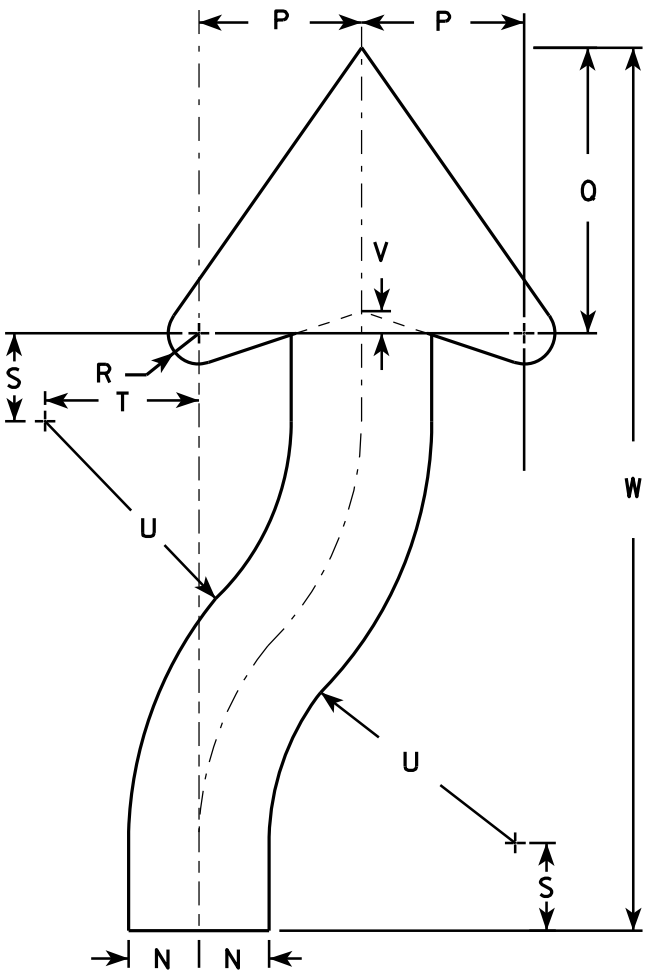
STANDARD SIGN R2-1

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

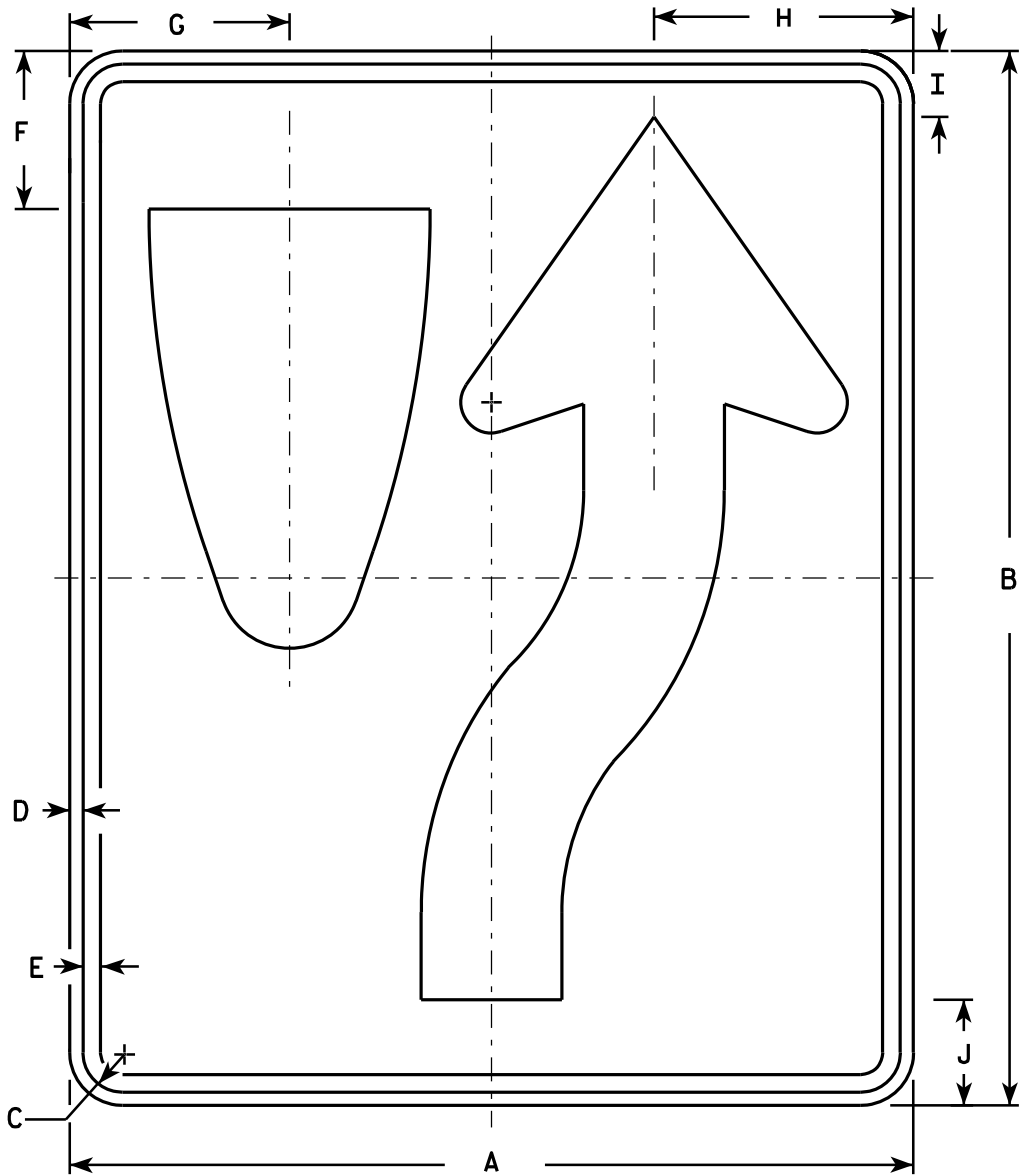
PROJECT NO: HWY: COUNTY: SHEET NO: 123 E

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.



ARROW DETAIL



R4-7

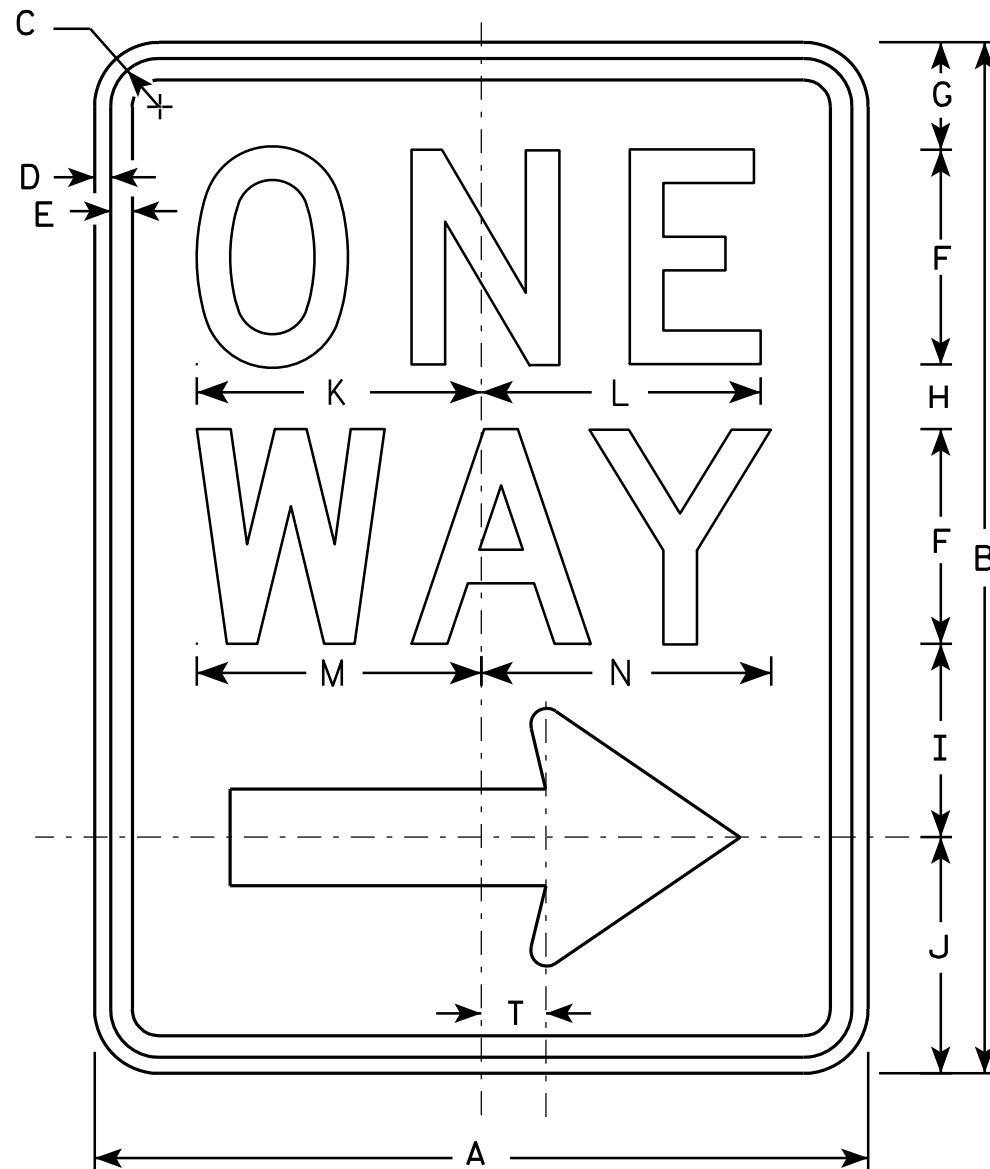
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				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

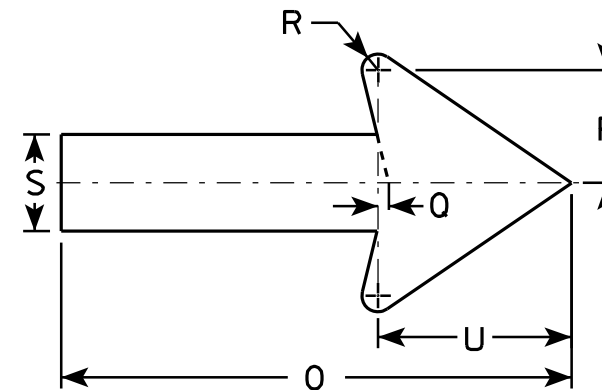
DATE 3/25/2011 PLATE NO. R4-7.8



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: 125	E
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STANDARD SIGN

R6-2 R&L

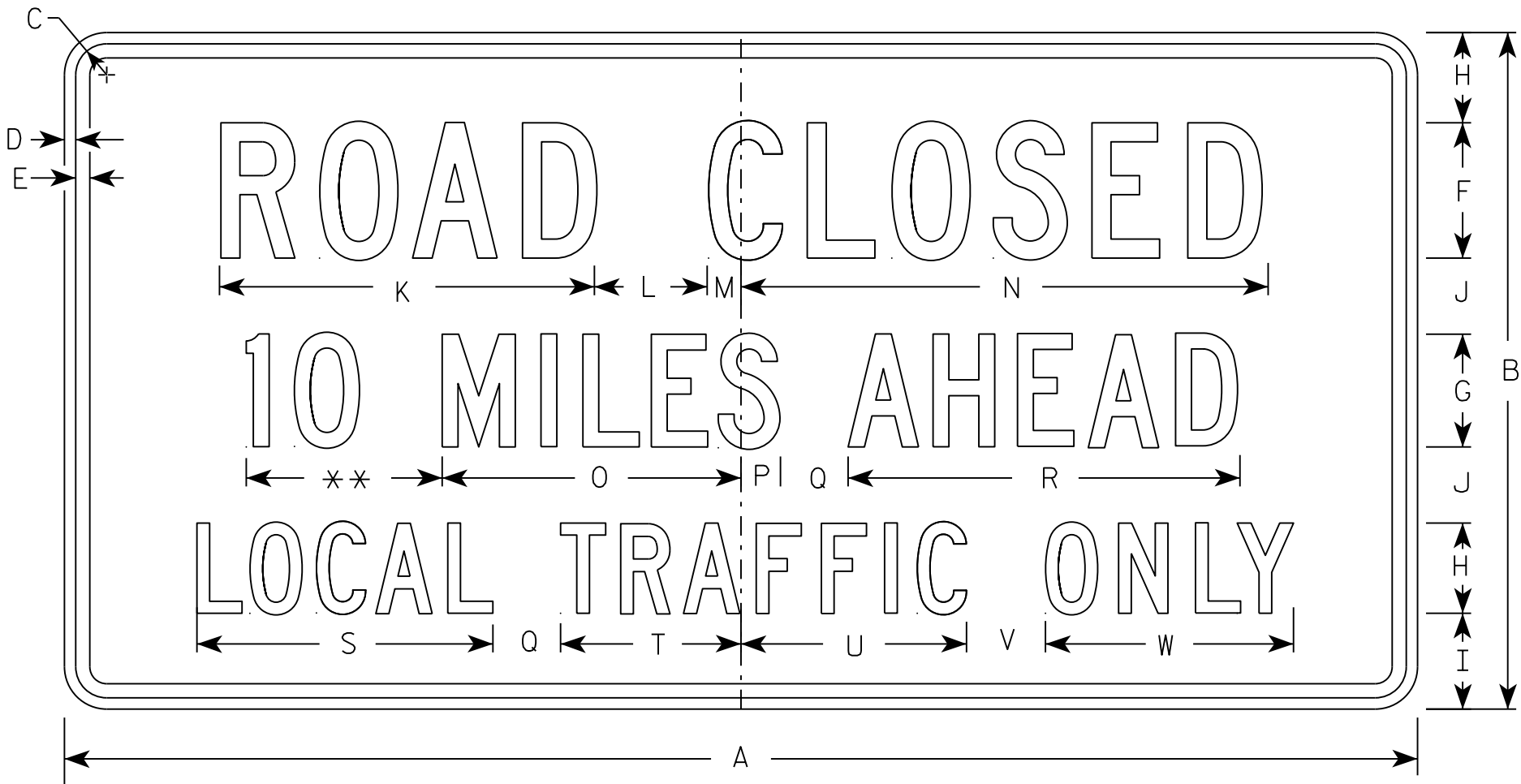
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

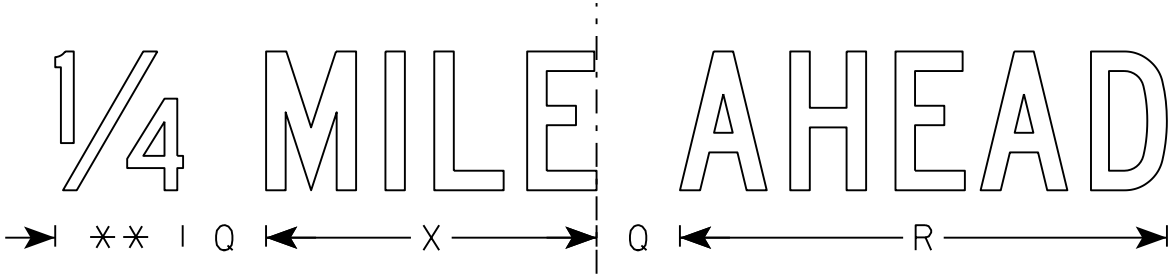
NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5

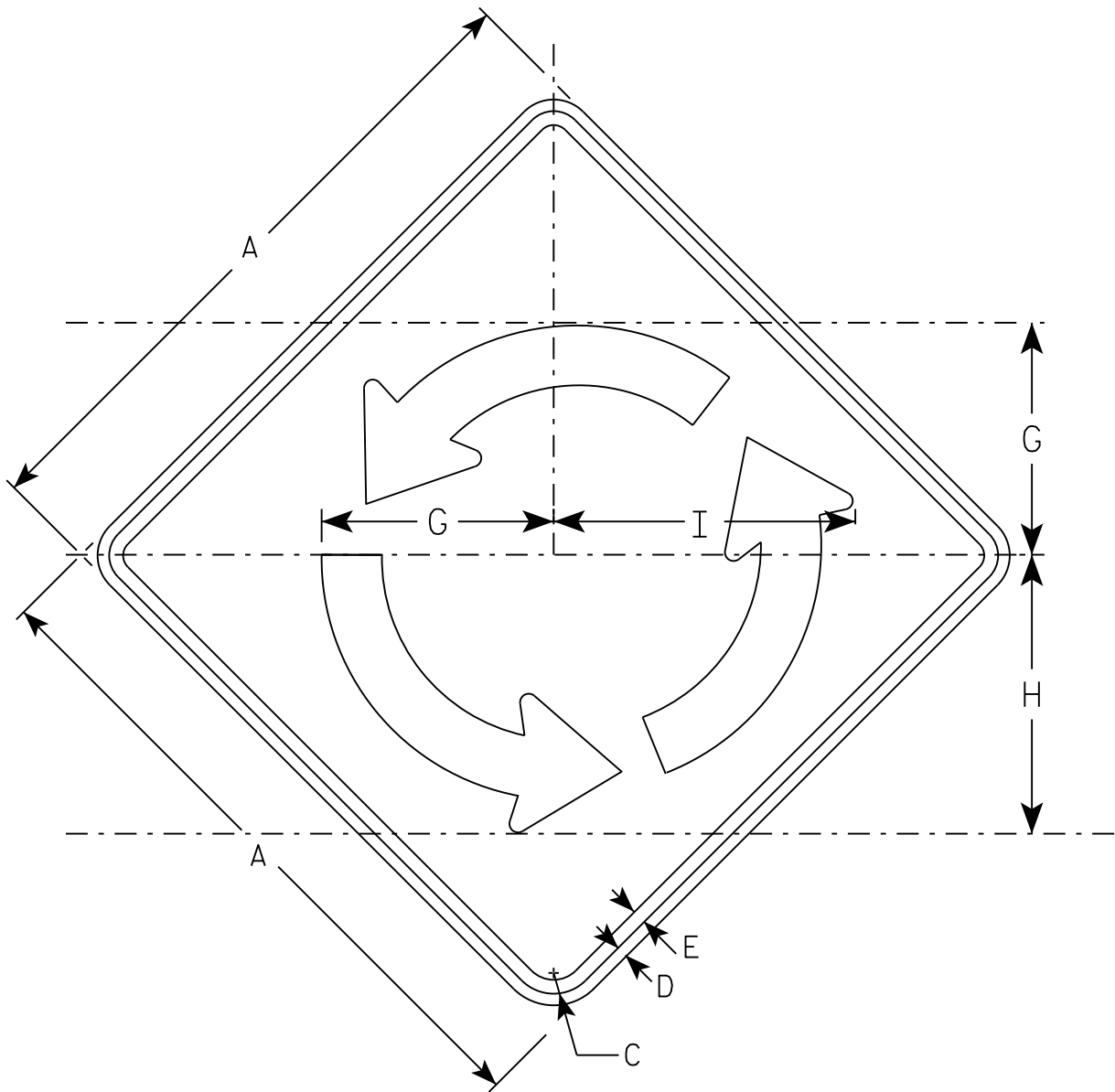


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3⁄8	1⁄2	5⁄8	4	3	2 1⁄2	2	2	11 1⁄8	3	1 1⁄8	15 1⁄4	8	1 1⁄2	2	10 3⁄4	8 3⁄8	4 3⁄4	6 1⁄2	2	6 3⁄4	7 1⁄8			4.5
2S	60	30	1 3⁄8	1⁄2	5⁄8	6	5	4	4 1⁄4	3 3⁄8	16 5⁄8	5	1 1⁄2	23	13 1⁄4	1 3⁄4	3	17 3⁄8	13 1⁄8	8	10	3 1⁄2	11	11 7⁄8			12.5
2M	60	30	1 3⁄8	1⁄2	5⁄8	6	5	4	4 1⁄4	3 3⁄8	16 5⁄8	5	1 1⁄2	23	13 1⁄4	1 3⁄4	3	17 3⁄8	13 1⁄8	8	10	3 1⁄2	11	11 7⁄8			12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/15/17 PLATE NO. R11-3.8



W2-6

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - YELLOW
 - Message - BLACK

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	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4																9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4																16.0
5																									

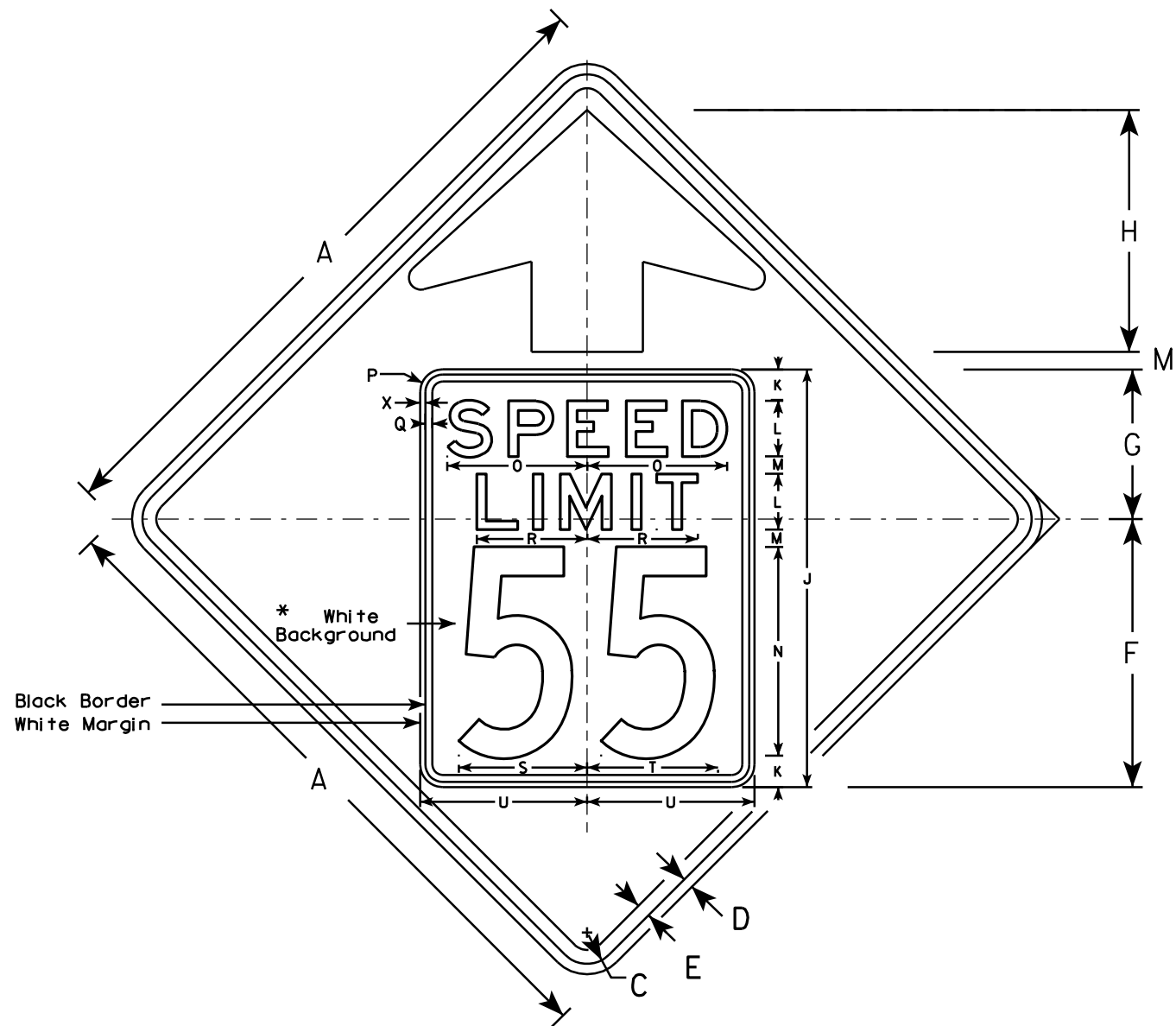
STANDARD SIGN

W2-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/15/18 PLATE NO. W2-6.6

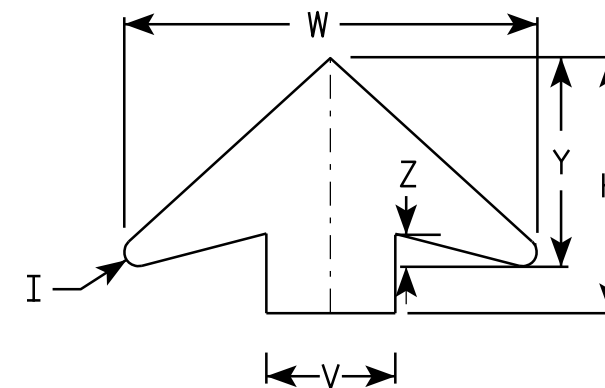


W3-5

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

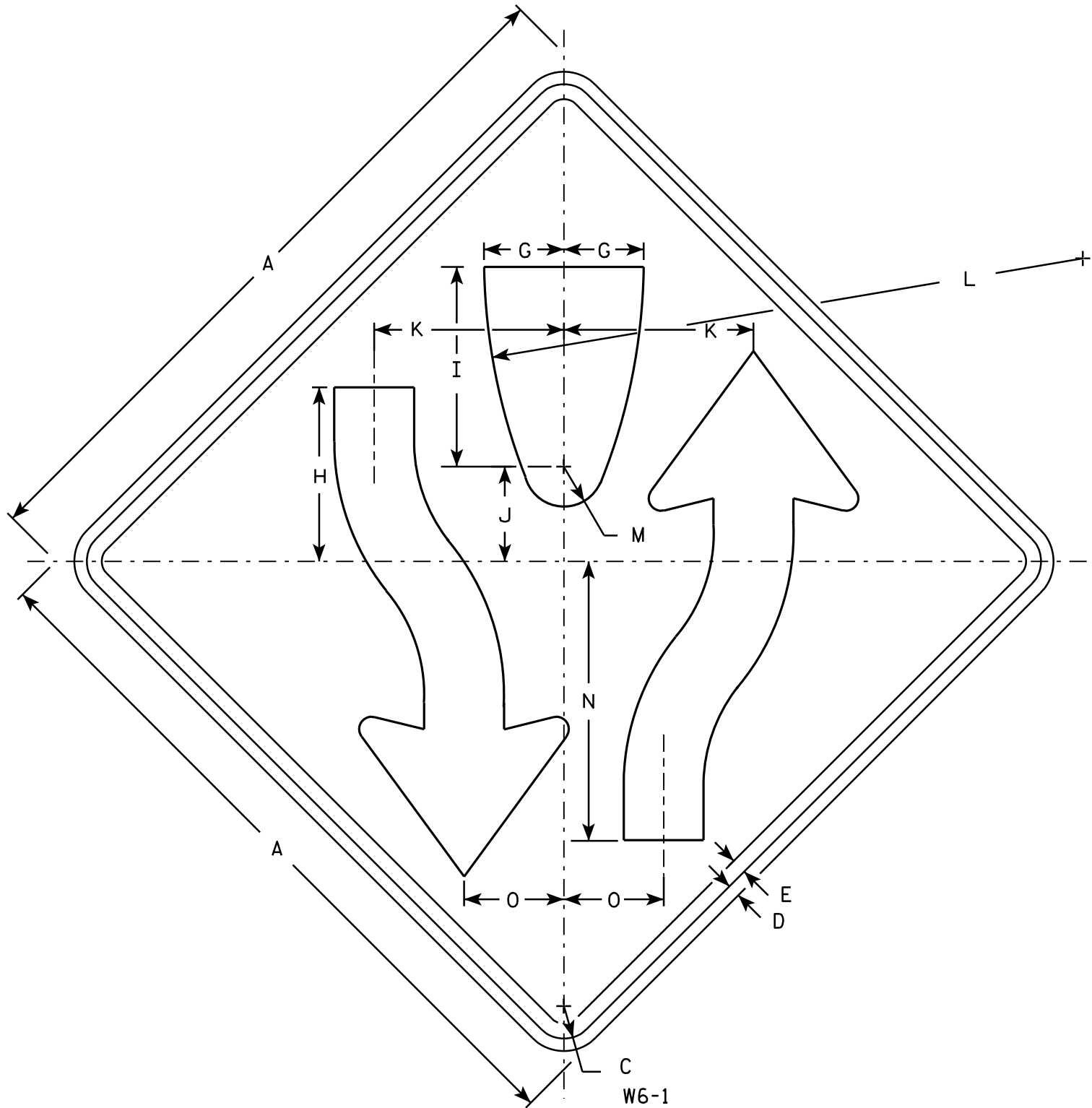
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO:

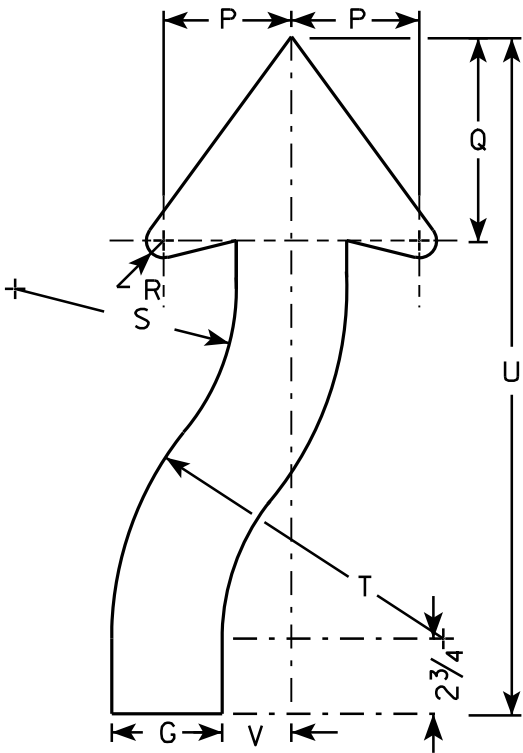
SHEET NO: 128

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

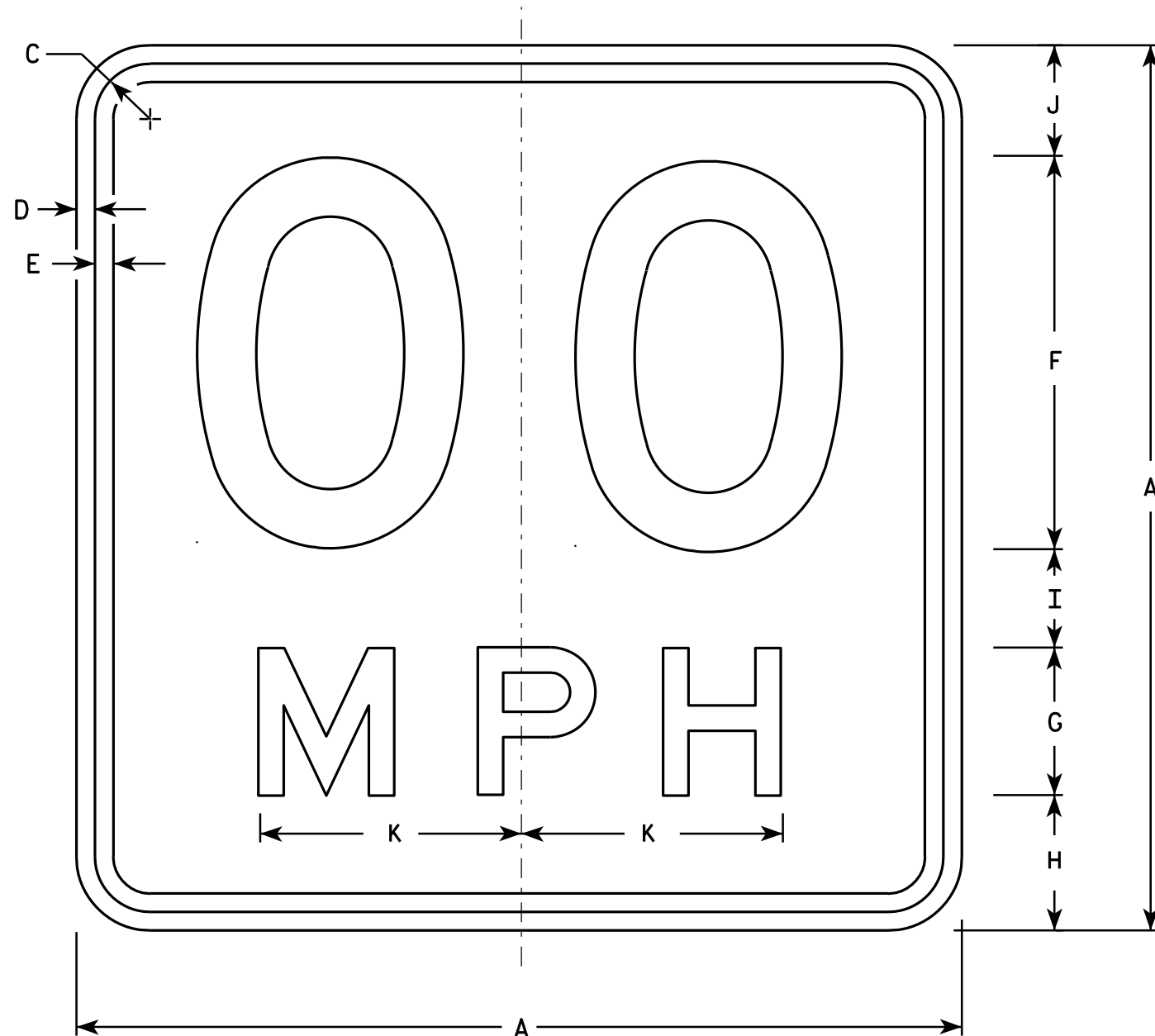
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4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



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 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

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

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		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

PROJECT NO:

HWY:

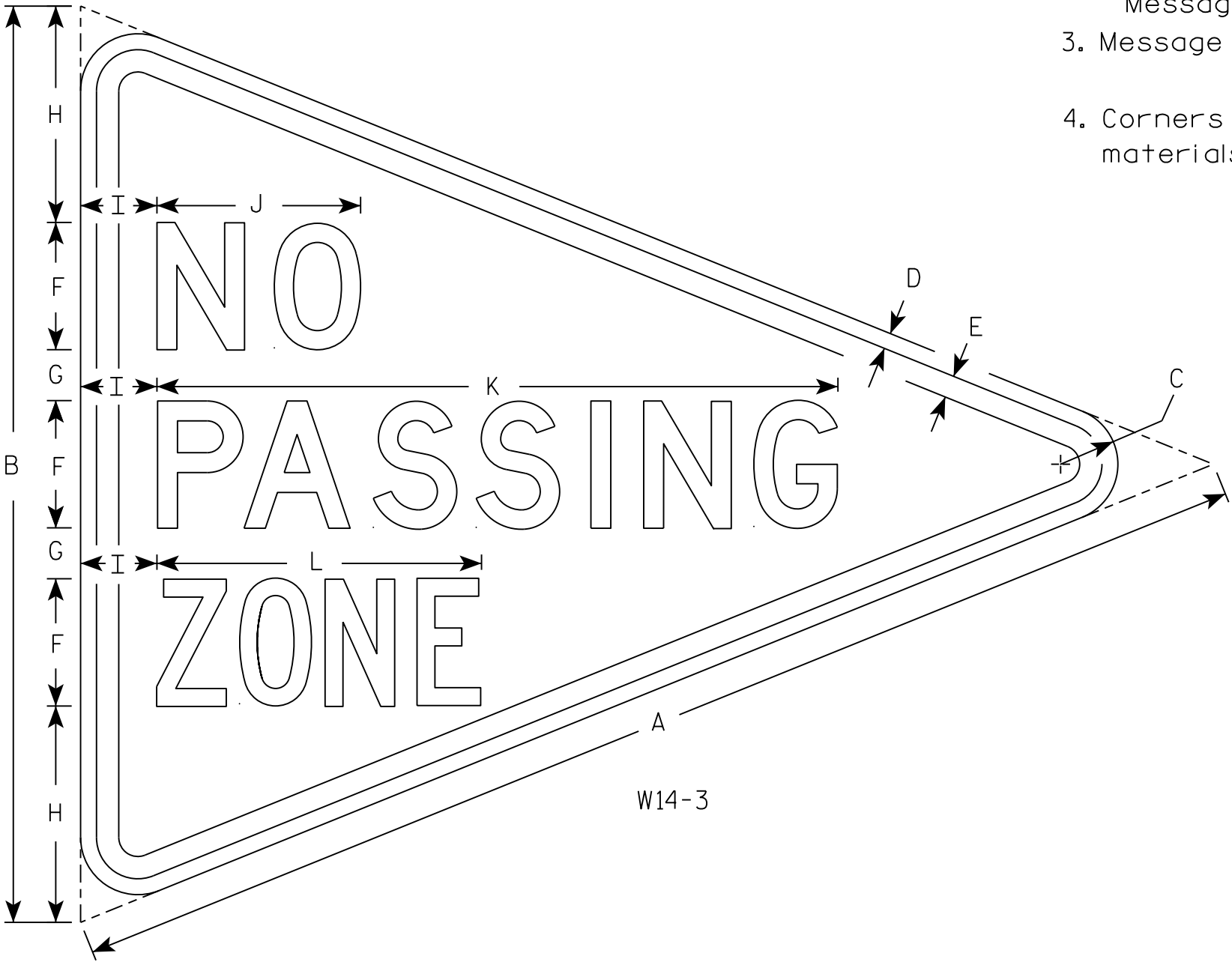
COUNTY:

SHEET NO: 130

E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
- 4. Corners and borders shall be rounded on all base materials for this sign.



7

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																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 131

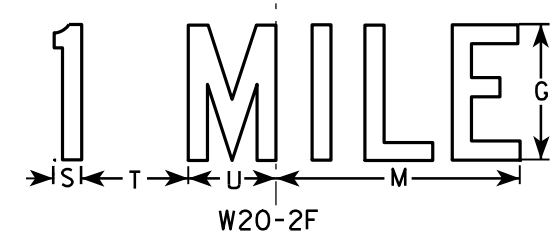
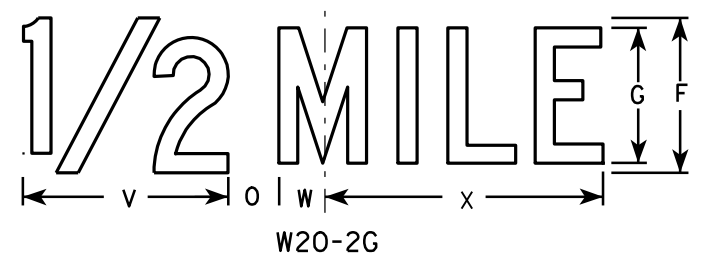
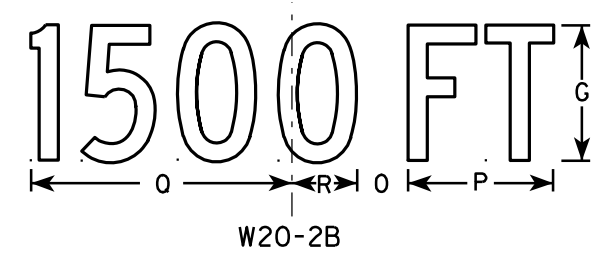
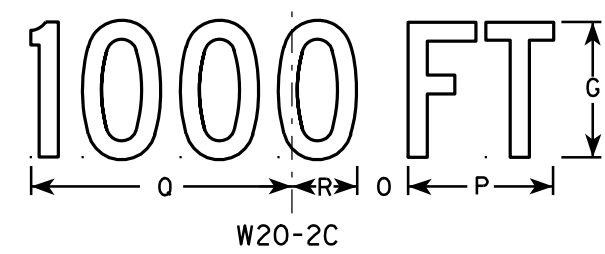
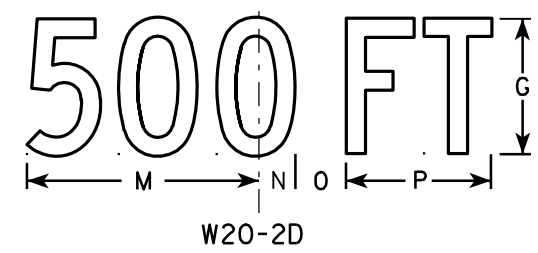
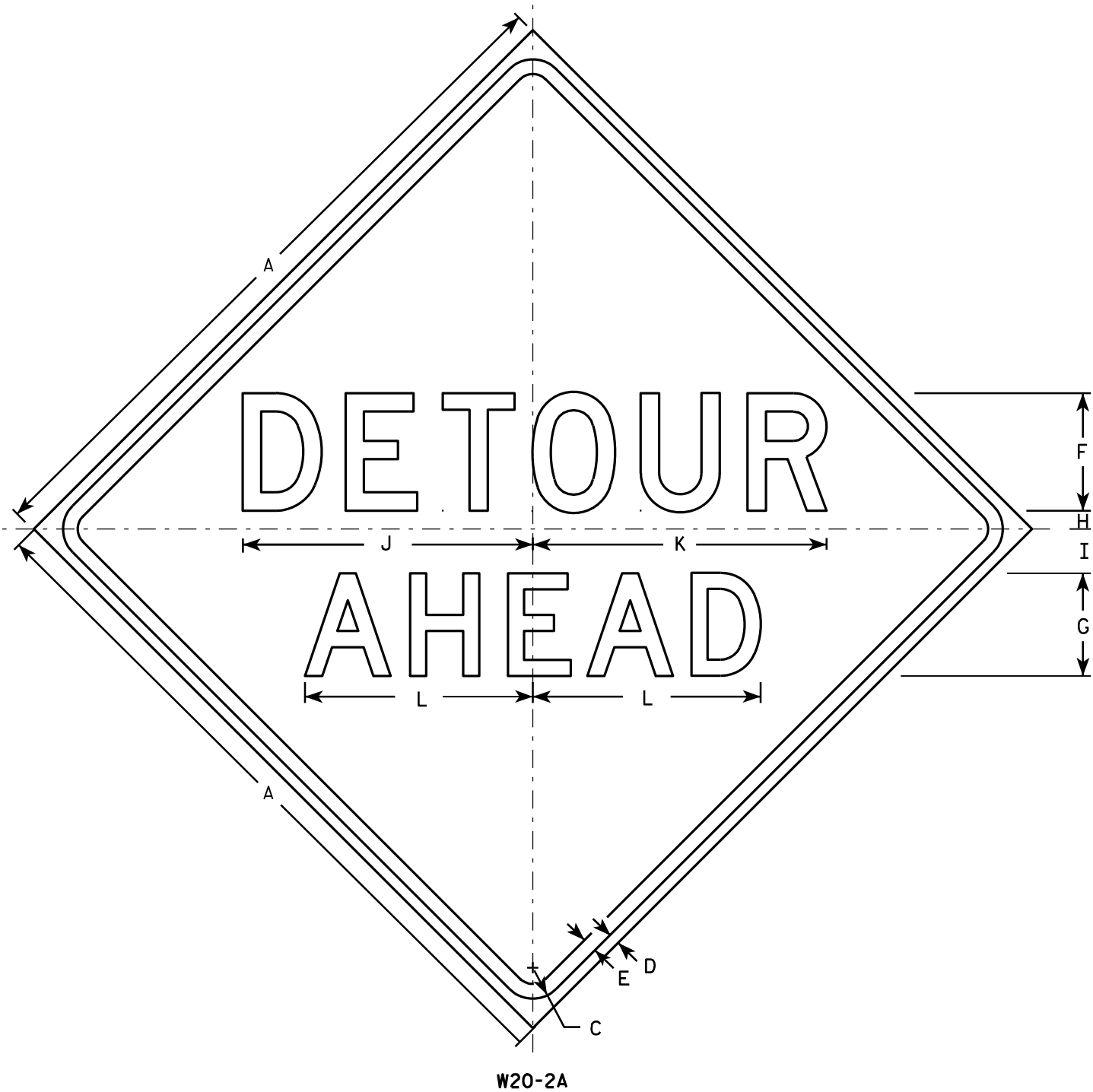
E

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. 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 is Series D.
Line 2 is Series D for AHEAD and Series C for all other distances.

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		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO:

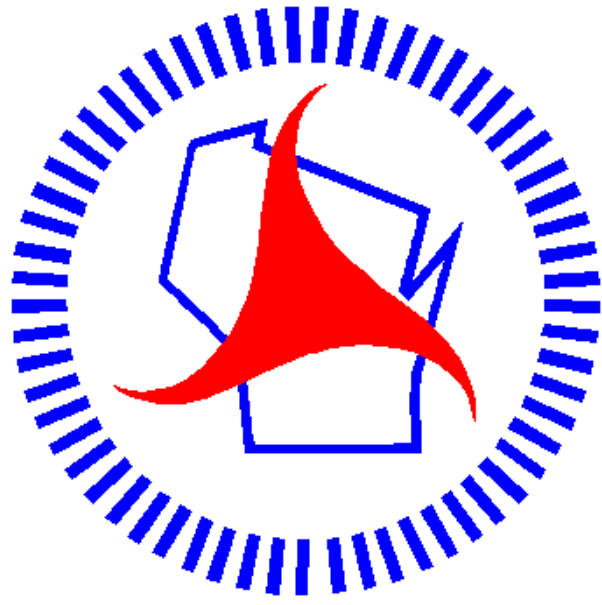
HWY:

COUNTY:

SHEET NO: 132

E

Notes



Wisconsin Department of Transportation

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<http://www.dot.wisconsin.gov>