

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 = 102



DESIGN DESIGNATION

A.A.D.T. 2013	= 16400
A.A.D.T. 2033	= 19600
D.H.V. 2033	= 2058
D.D.	= 58/42
T.	= 10.0% OF A.A.D.T.
DESIGN SPEED	= POSTED SPEED
ESALS	= 2,372,500

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	
SWAMP 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	

ROCK	
LABEL	
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

CITY OF BLACK RIVER FALLS, WATER ST.

(IH 94 - STH 54 EASTBOUND)

USH 12

JACKSON COUNTY

STATE PROJECT NUMBER
7540-03-70END PROJECT
STA. 55+50STRUCTURE B-27-56
STA. 18+62 TO 18+90STRUCTURE B-27-73
STA. 5+27 TO 10+90
BEGIN PROJECT
STA. 997+18

CITY OF BLACK RIVER FALLS

T-21-N

R-4-W

LAYOUT
SCALE 0 0.15 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.105 MI.

EQU. 1000+00 BK. =
0+00 AHD.

ACCEPTED FOR

CITY OF BLACK RIVER FALLS

10/25/12
(Date)
Walter A. Melt
(Signature & Title of Official)STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NW REGION - EAU CLAIRE
Designer	K. KOPACZ
Project Manager	C. HINES
Regional Examiner	D. OJIBWAY
Regional Supervisor	R. SHERMO
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 10/23/12
Rick Sh...
(Signature)

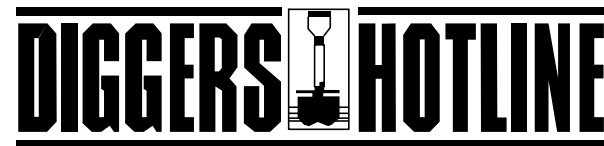
E

UTILITIES CONTACTS

CENTURYLINK OF CENTRAL WI
MS. DONNA SMOTHERS
835 RED IRON RD.
BLACK RIVER FALLS, WI 54615
PHONE: 715-284-4375

CITY OF BLACK RIVER FALLS - UTILITIES
MR. KENT FISHER
119 N. WATER ST.
BLACK RIVER FALLS, WI 54615
PHONE: 715-284-9463 (EXT. 222)

WE ENERGIES
MR. BILL GARSKI
1921 8TH ST. SOUTH
WISCONSIN RAPIDS, WI 54494-0789
PHONE: 715-421-7259
WE ENERGIES EMERGENCY: 1-800-261-5325



Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

OTHER CONTACTS

WISCONSIN D.N.R.
MS. KAREN KALVELAGE
3550 MORMON COULEE RD.
LA CROSSE, WI 54601
PHONE: 608-785-9115
EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

CITY OF BLACK RIVER FALLS - STREET DEPT.
MR. TODD GOMER
101 S. 2ND ST.
BLACK RIVER FALLS, WI 54615
PHONE: 715-299-0369 / 715-284-2315

GENERAL NOTES

THE LOCATIONS OF EXISTING & PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE COUNTY SURVEYOR CONCERNING MONUMENT AND PROPERTY CORNER PRESERVATION.

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. SLOPES AND DISTANCES MAY VARY WITHIN THE STATION LIMITS.

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

THE EXACT LOCATIONS OF BUTT JOINTS AND CONCRETE PAVEMENT REPAIR/REPLACEMENT ARE TO BE DETERMINED BY THE ENGINEER.

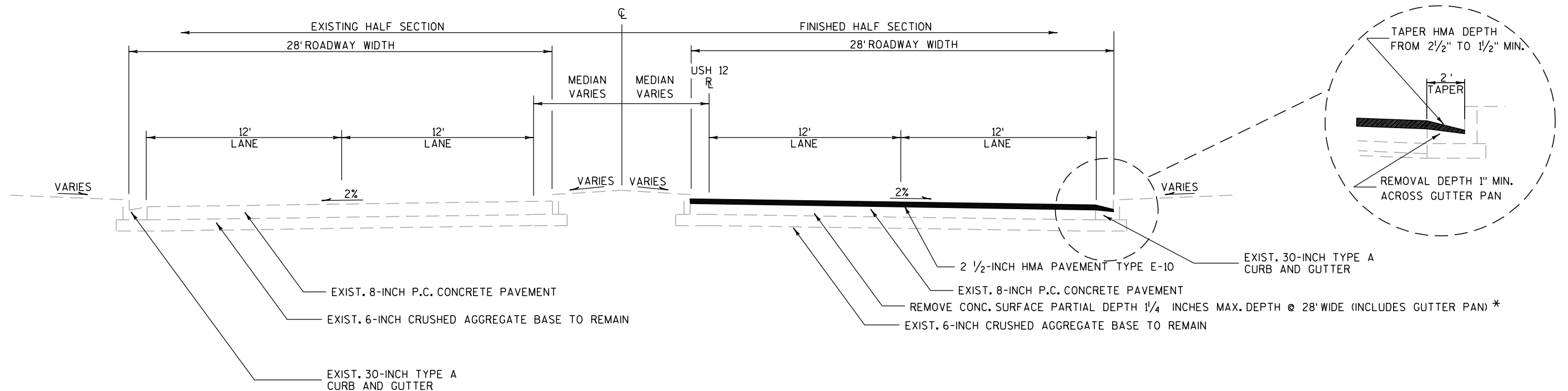
THE EXACT LOCATIONS OF MANHOLE COVER ADJUSTMENTS ARE TO BE DETERMINED BY THE ENGINEER.

THE 2½ INCH HMA PAVEMENT SHALL BE PLACED WITH A 1 INCH LEVELING LAYER AND A 1½ INCH UPPER LAYER. BOTH LAYERS SHALL BE A 9.5mm MIX.

THE 4½ INCH HMA PAVEMENT SHALL BE PLACED WITH A 2½ INCH LOWER LAYER AND A 2 INCH UPPER LAYER. BOTH LAYERS SHALL BE A 12.5mm MIX.

HMA PAVEMENT LONGITUDINAL CONSTRUCTION JOINTS SHALL NOT BE LOCATED WITHIN A TRAVEL LANE.

LOCATIONS FOR PERMANENT SIGNS SHOWN ON THE PLAN ARE APPROXIMATE. ACTUAL LOCATIONS OF PERMANENT SIGNS ARE TO BE COORDINATED IN THE FIELD BY THE ENGINEER.



* SEE DETAIL FOR WORK AROUND EXISTING INLETS

EXISTING/FINISHED TYPICAL SECTION, USH 12
STA. 997±18 TO STA. 5±20 (EQUATION 0+00 AH/1000+00 BK)
EAST OF BLACK RIVER BRIDGE

PROJECT NO: 7540-03-70

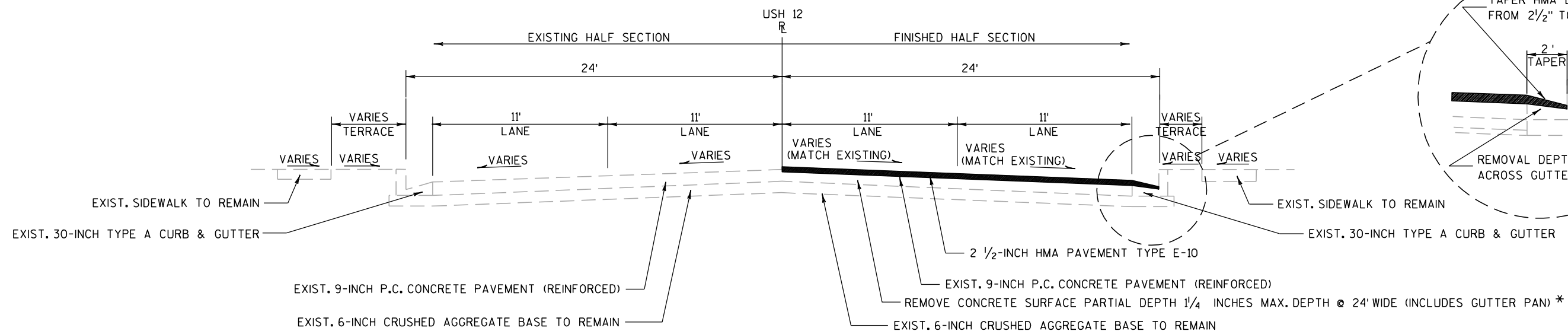
HWY: USH 12

COUNTY: JACKSON

GENERAL NOTES / UTILITIES / TYPICAL SECTION

SHEET

E

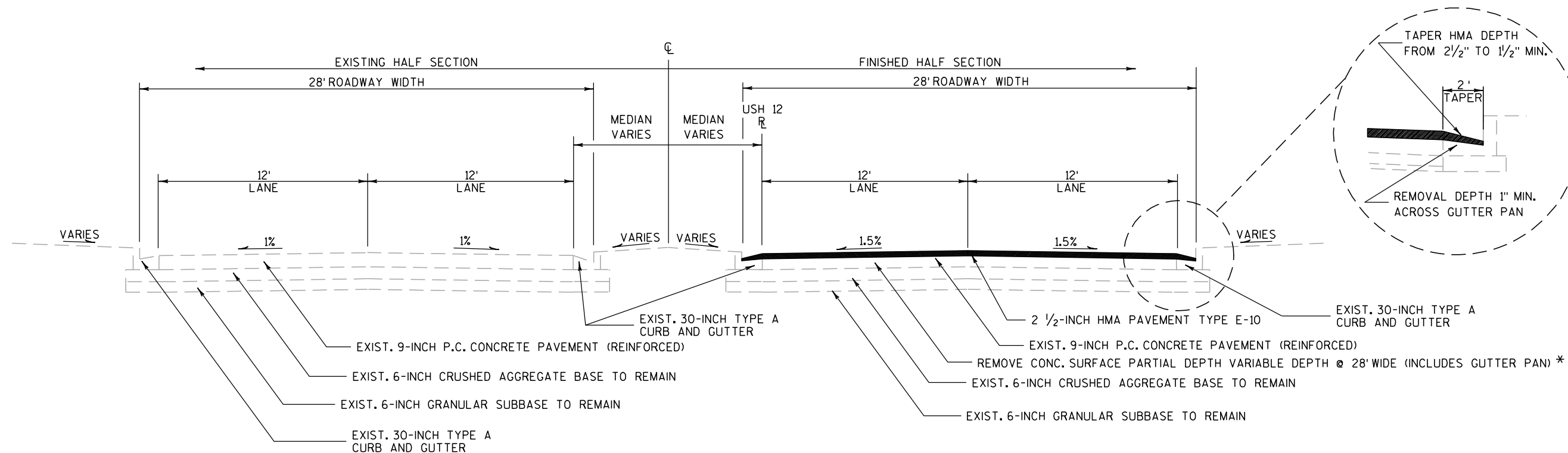


EXISTING/FINISHED TYPICAL SECTION, USH 12

STA. 11±00 TO STA. 44±00
MAIN ST. TO ADAMS ST.

* SEE DETAIL FOR WORK AROUND EXISTING INLETS

NOTE: EXISTING CONCRETE PAVEMENT ON THIS SECTION OF USH 12 FROM MAIN ST. TO ADAMS ST. HAS AN EXISTING HYPERBOLIC CROWN WITH REINFORCEMENT AT LEAST 2 INCHES BELOW SURFACE.

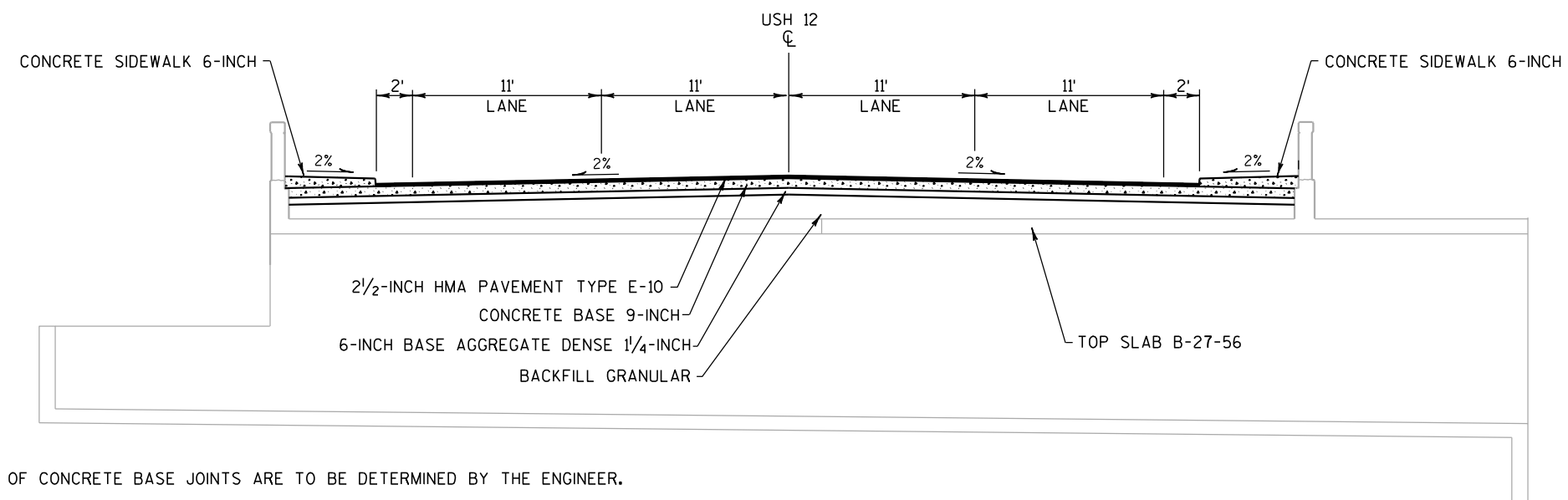


EXISTING/FINISHED TYPICAL SECTION, USH 12

STA. 45±00 TO STA. 49±00
ADAMS ST. TO CTH A

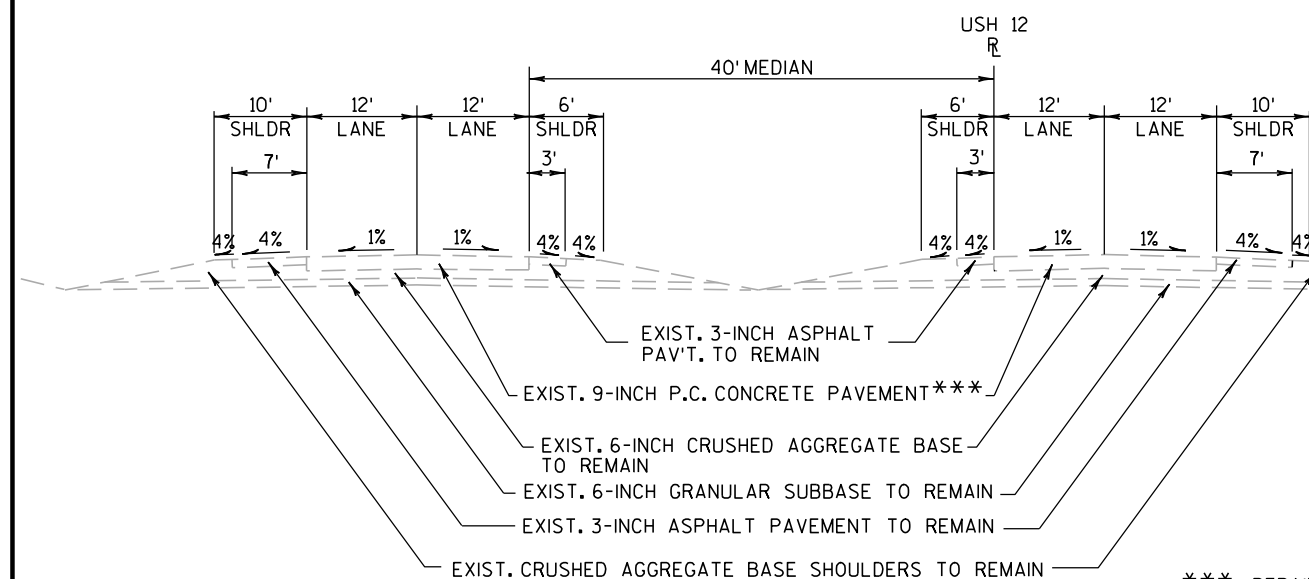
* SEE DETAIL FOR WORK AROUND EXISTING INLETS;
REMOVE CONC. SURFACE PARTIAL DEPTH 3/4" DEPTH AT CENTERLINE TO 1/2" DEPTH AT LANE EDGE.

NOTE: EXISTING CONCRETE PAVEMENT HAS REINFORCEMENT AT LEAST 2 INCHES BELOW SURFACE.



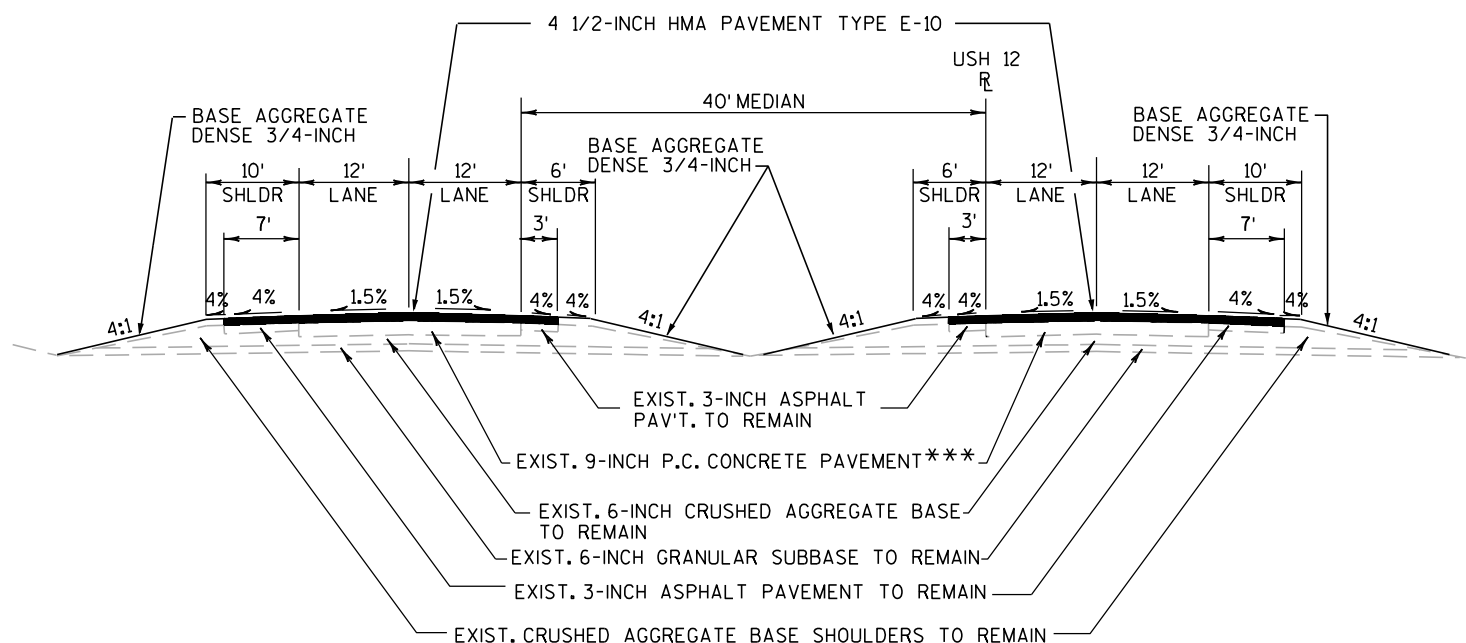
NOTE: THE LOCATIONS OF CONCRETE BASE JOINTS ARE TO BE DETERMINED BY THE ENGINEER.

FINISHED TYPICAL SECTION, USH 12
STA. 18+50 TO STA. 19+00
OVER B-27-56



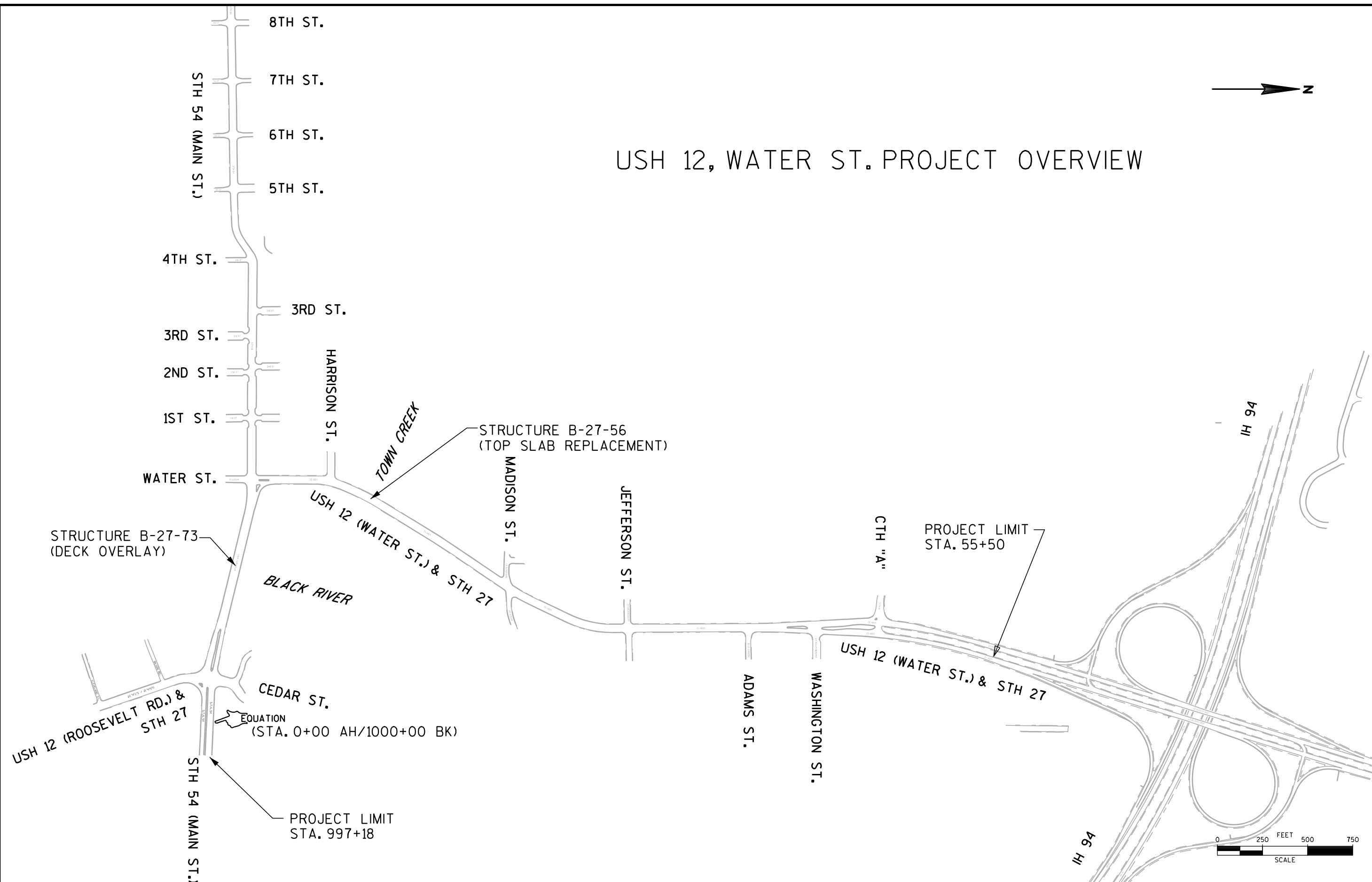
EXISTING TYPICAL SECTION, USH 12
STA. 50±00 TO STA. 55±50
CTH A TO IH 94 RAMPS

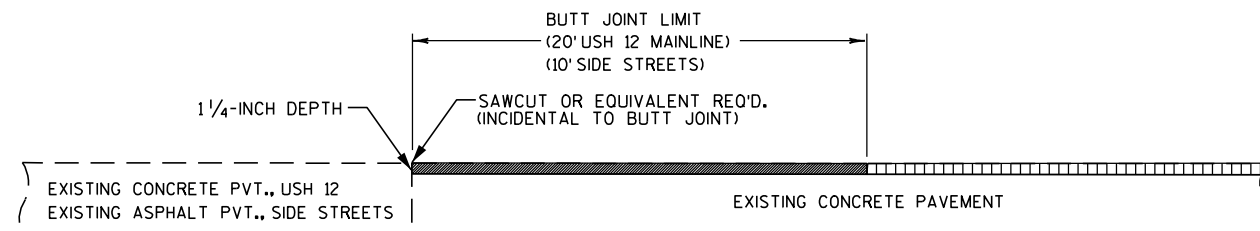
*** REPAIR EXIST. CONCRETE PAVEMENT AS SHOWN IN THE PLANS AND/OR AS DETERMINED BY THE ENGINEER.



FINISHED TYPICAL SECTION, USH 12
STA. 50±00 TO STA. 55±50
CTH A TO IH 94 RAMPS

USH 12, WATER ST. PROJECT OVERVIEW

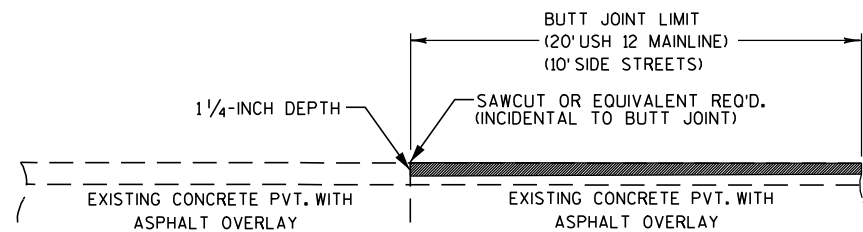




REMOVING PAVEMENT BUTT JOINTS
REMOVING CONCRETE SURFACE PARTIAL DEPTH

BUTT JOINT DETAIL (CONCRETE)

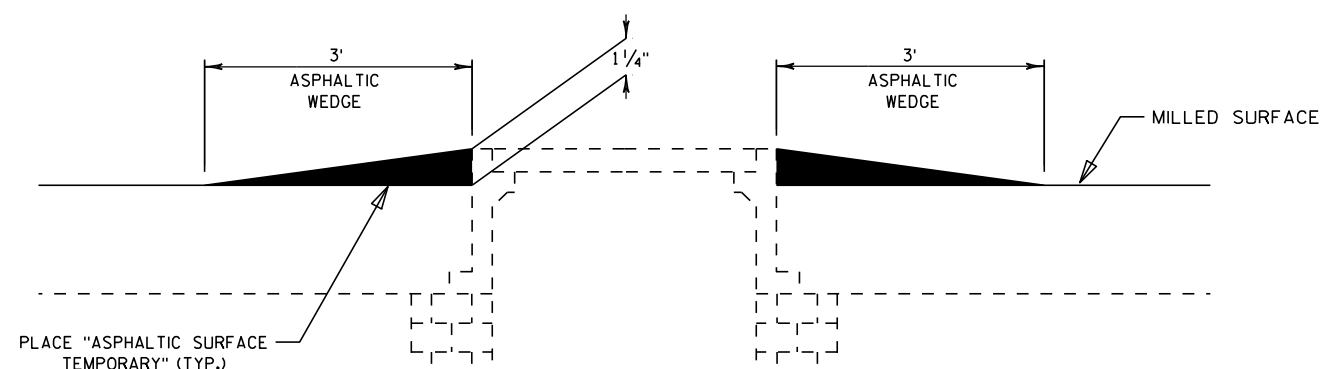
STA. 997+18, USH 12 MAINLINE
STA. 5+25, USH 12 MAINLINE
STA. 10+95, USH 12 MAINLINE
STA. 18+60, USH 12 MAINLINE
STA. 18+95, USH 12 MAINLINE
SIDE STREETS



REMOVING ASPHALTIC SURFACE BUTT JOINTS

BUTT JOINT DETAIL (ASPHALT)

STA. 55+50, USH 12 MAINLINE
SIDE STREET (MAIN ST. W.)

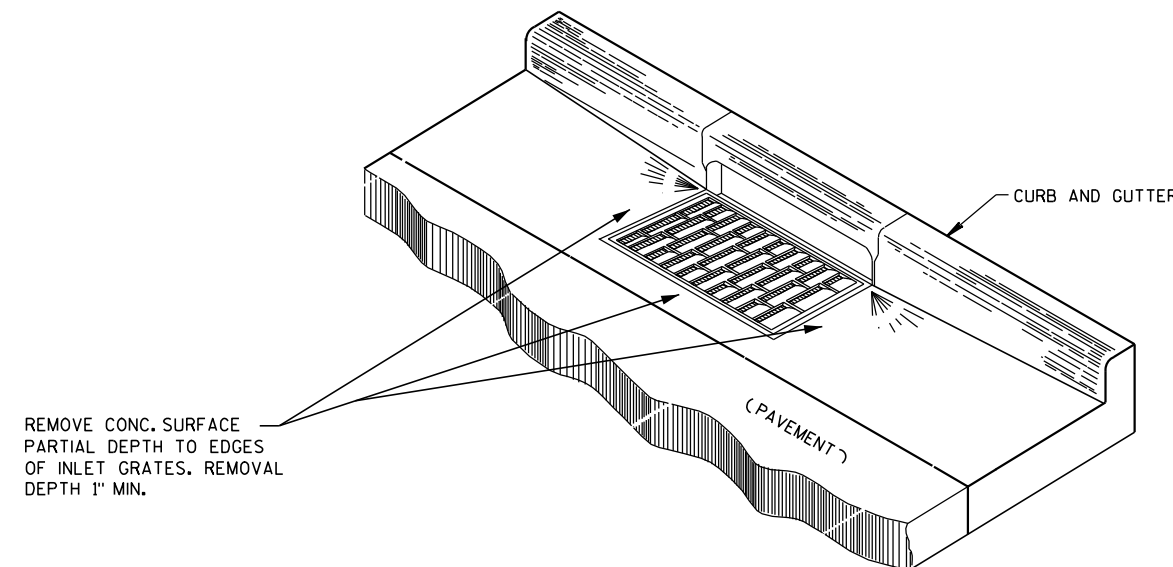


NOTE:

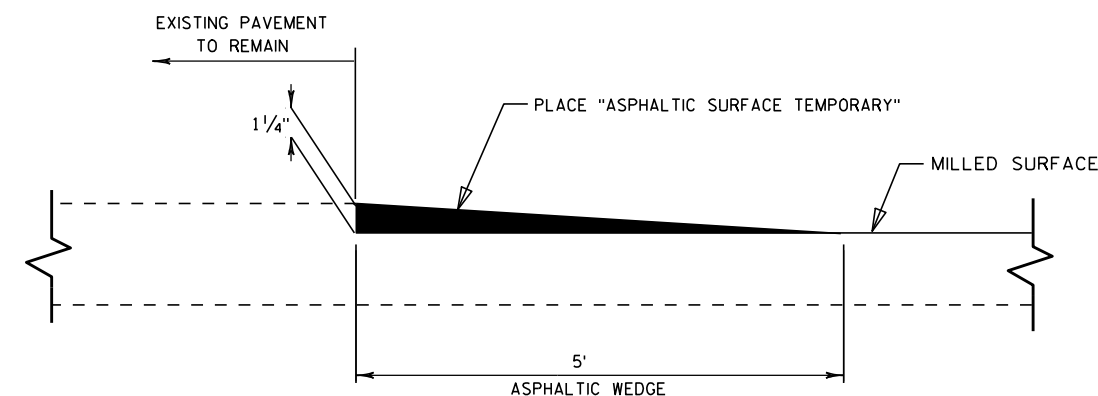
REMOVAL OF ASPHALTIC WEDGES WILL BE INCIDENTAL
TO "PREPARE FOUNDATION FOR ASPHALTIC PAVING SPECIAL"

TEMPORARY WEDGES DETAIL (MANHOLES)

NOTE: PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING TO TRAFFIC ON MILLED SURFACE



SURFACE REMOVAL AT EXISTING INLETS DETAIL

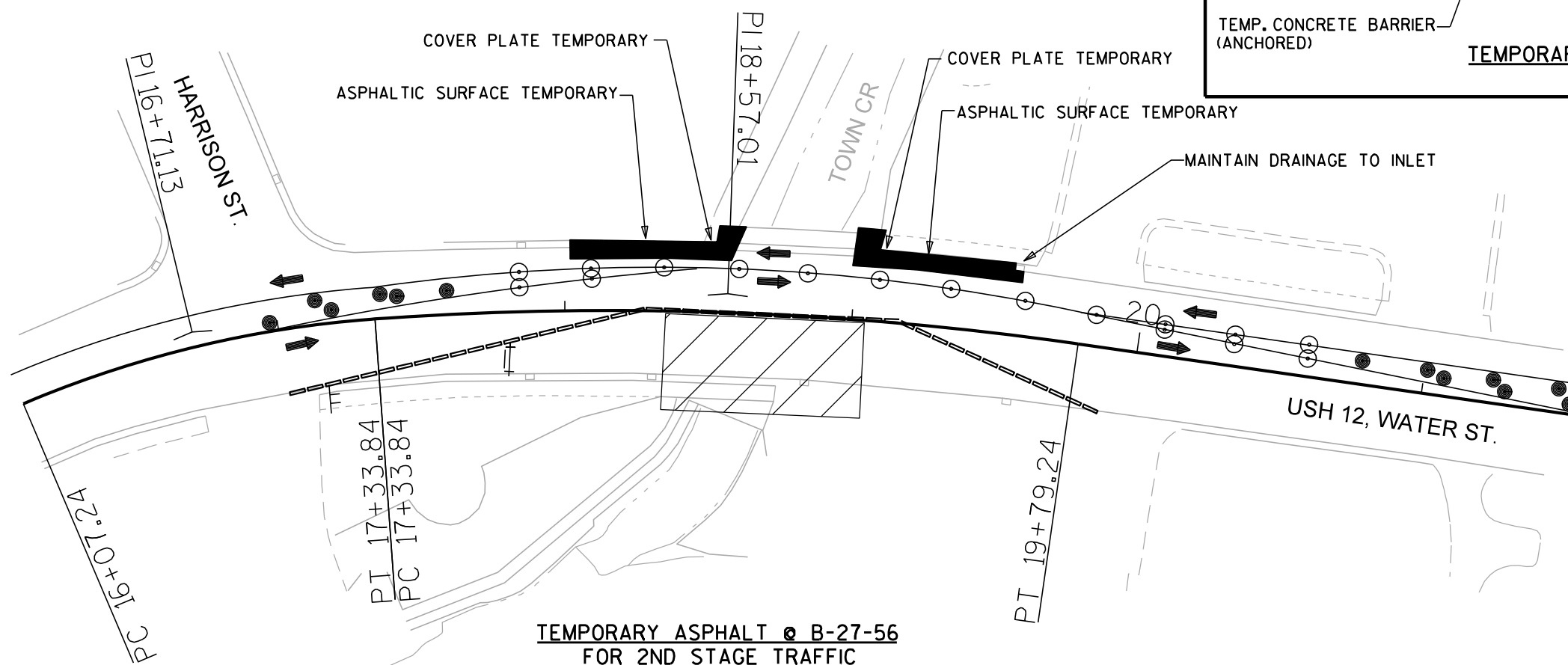
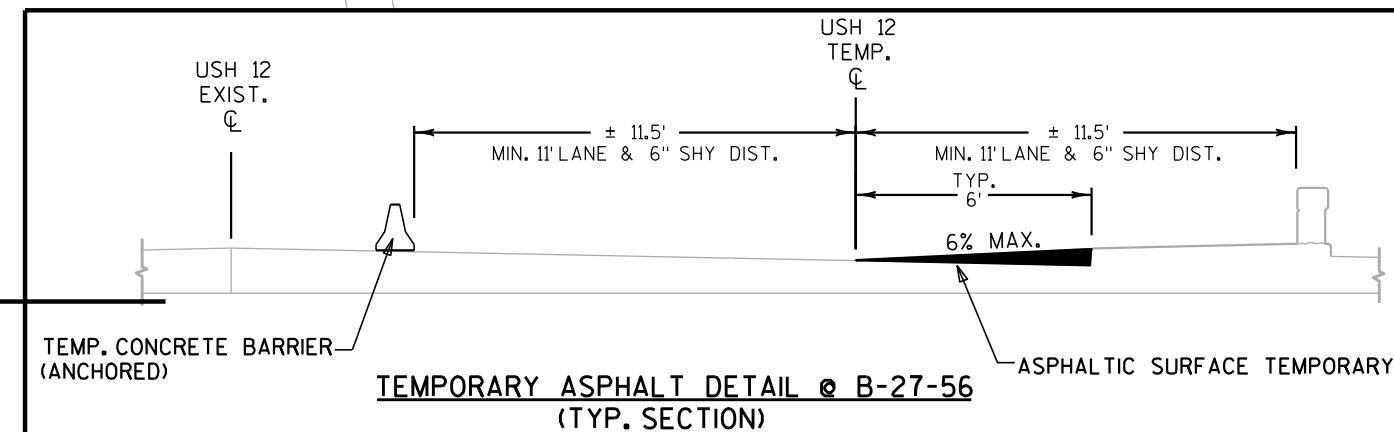
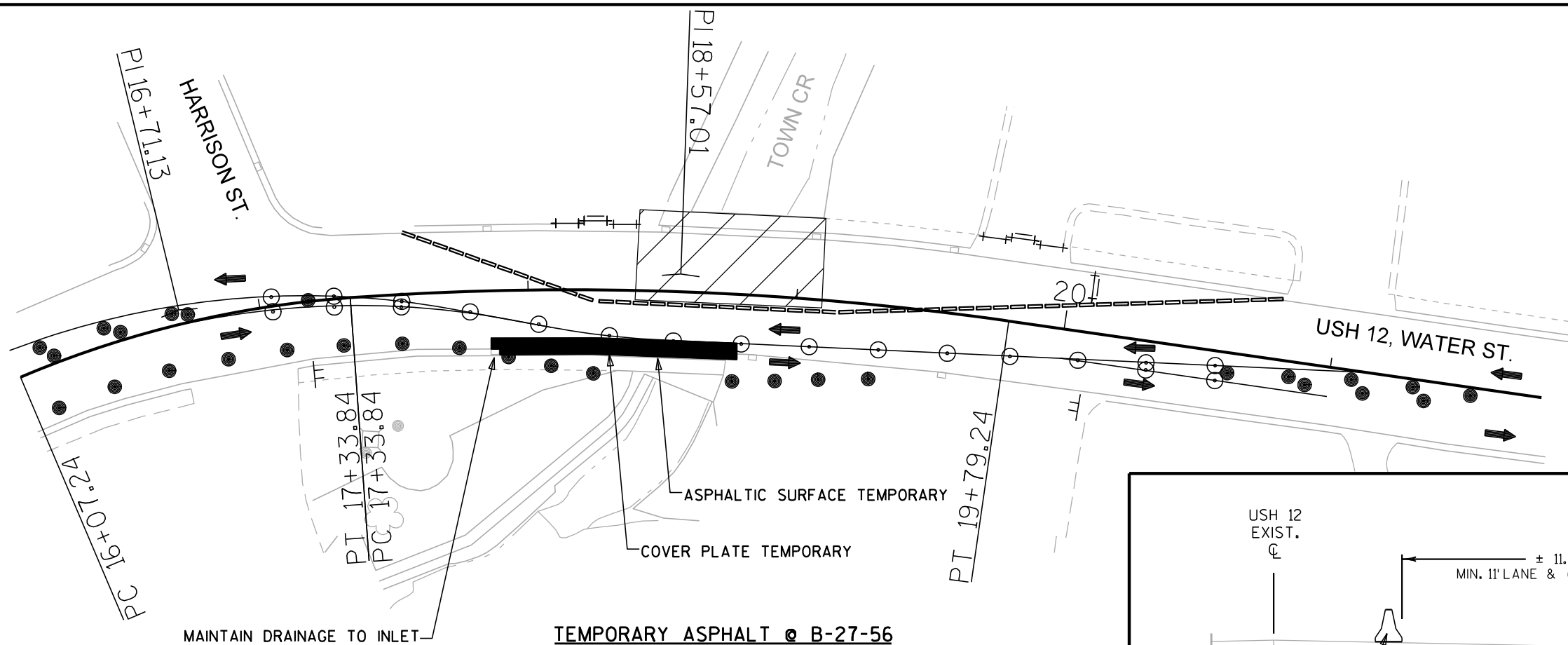


NOTE:

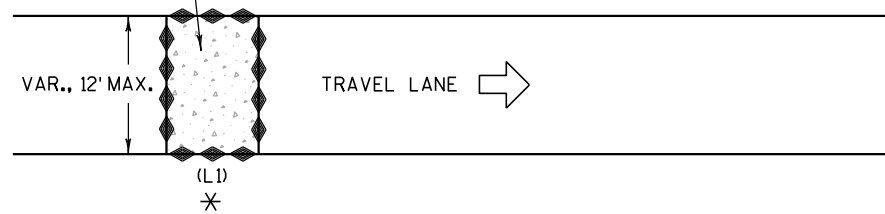
REMOVAL OF ASPHALTIC WEDGES WILL BE INCIDENTAL
TO "PREPARE FOUNDATION FOR ASPHALTIC PAVING SPECIAL"

TEMPORARY WEDGES DETAIL (MATCH POINTS)

NOTE: PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING TO TRAFFIC ON MILLED SURFACE



CONCRETE PAVEMENT
REPAIR/REPLACEMENT
NON DOWELED SPECIAL



PLAN VIEW

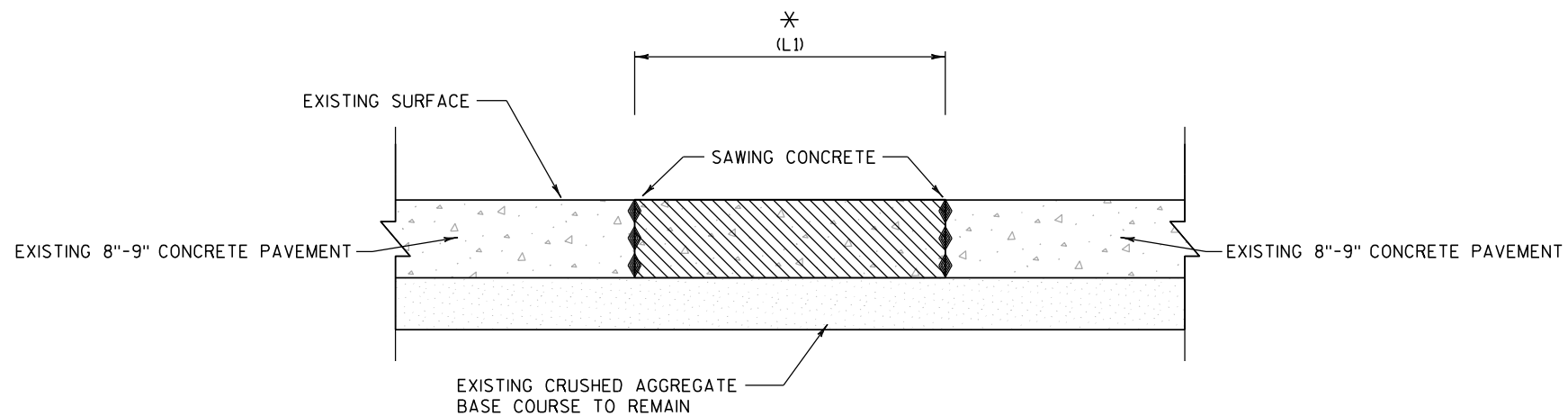


CONCRETE PAVEMENT REPAIR/REPLACEMENT NON DOWELED SPECIAL



SAWING CONCRETE

* (L1) = 4' - 8' TYP. OR AS DIRECTED BY THE ENGINEER.
0'-15' IS REPAIR. GREATER THAN 15' IS REPLACEMENT.



SECTION A-A

NOTES:

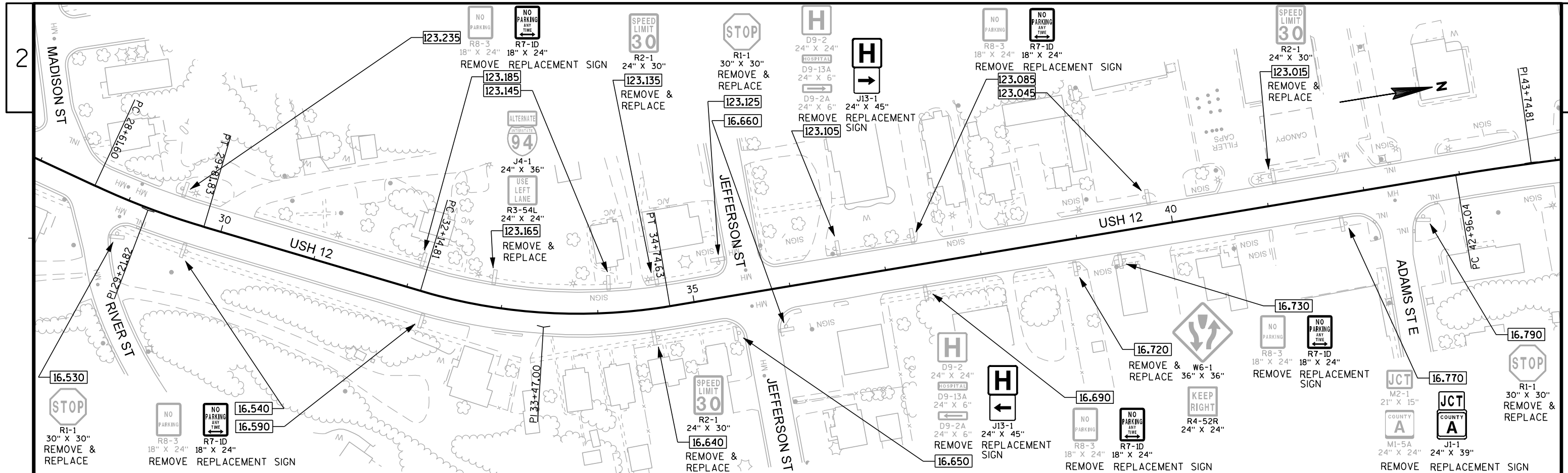
CONSTRUCT CONCRETE PAVEMENT REPAIR/REPLACEMENT PRIOR
TO HMA OVERLAY.

THICKNESS OF CONCRETE REPAIR/REPLACEMENT VARIES.
8" - 9" THICKNESS IS EXPECTED.

DAMAGE TO EITHER EXISTING PAVEMENTS OR EXISTING SHOULDERS
SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND WILL BE
INCIDENTAL TO THE ITEMS OF "CONCRETE PAVEMENT REPAIR
NON DOWELED SPECIAL" AND "CONCRETE PAVEMENT REPLACEMENT
NON DOWELED SPECIAL."

CONCRETE PAVEMENT REPAIR/REPLACEMENT NON DOWELED SPECIAL DETAIL

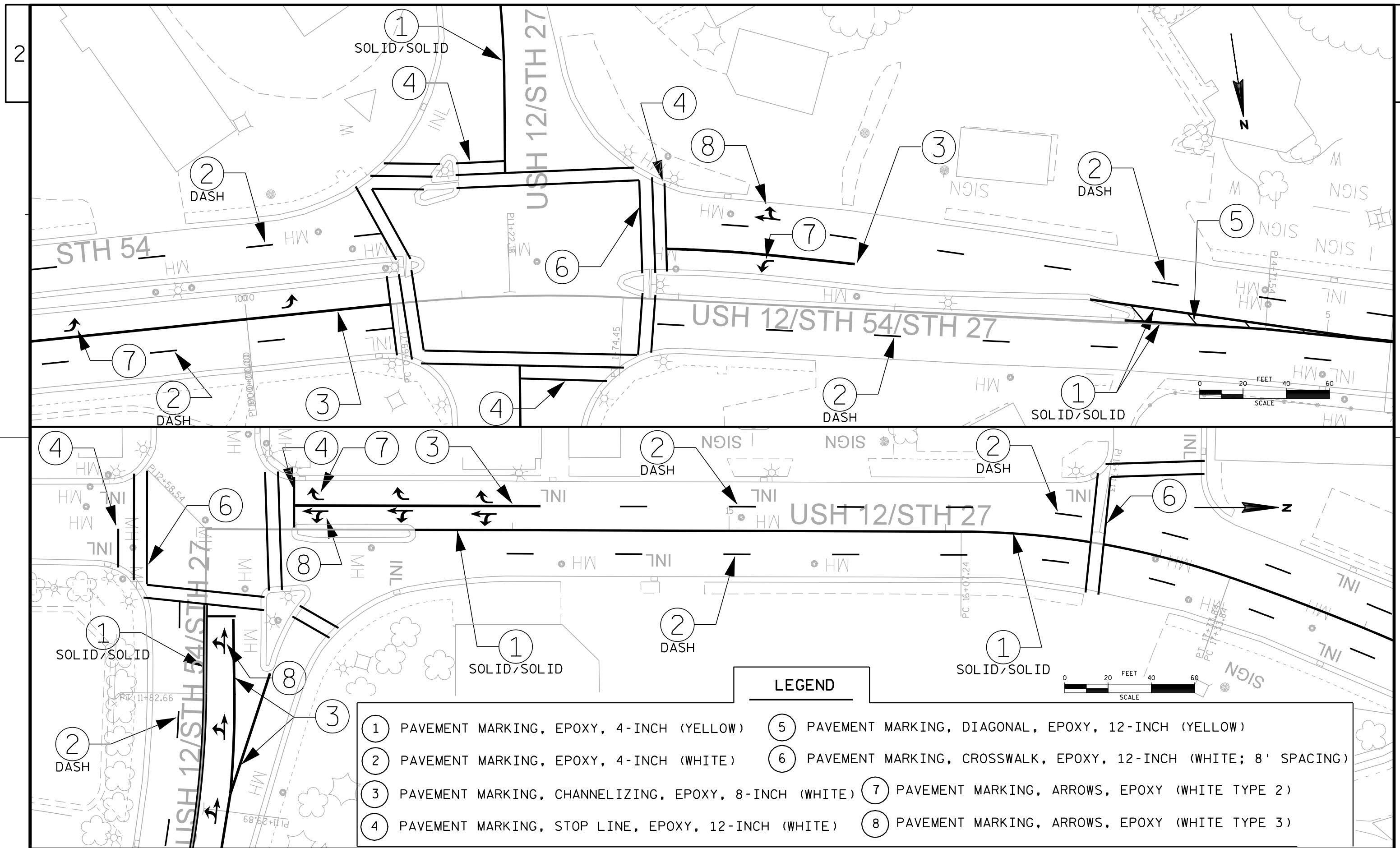
LOCATIONS TO BE DETERMINED BY THE ENGINEER.



XXX.XXX MILE MARKER REFERENCE

EXISTING SIGN POSITION (APPROXIMATE LOCATION)

NEW SIGN POSITION (APPROXIMATE LOCATION)

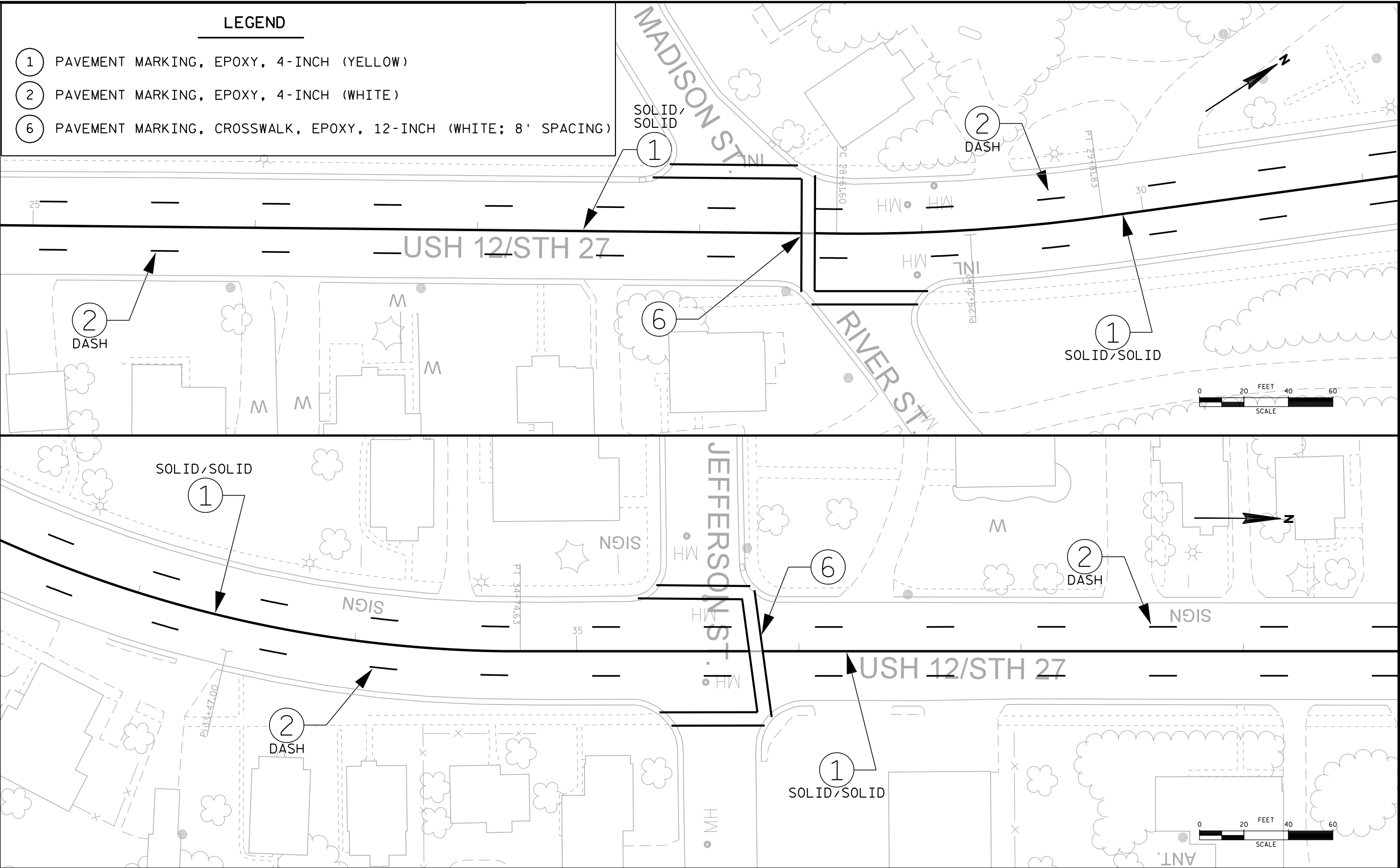


LEGEND

- | | |
|---|---|
| ① PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW) | ⑤ PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH (YELLOW) |
| ② PAVEMENT MARKING, EPOXY, 4-INCH (WHITE) | ⑥ PAVEMENT MARKING, CROSSWALK, EPOXY, 12-INCH (WHITE; 8' SPACING) |
| ③ PAVEMENT MARKING, CHANNELIZING, EPOXY, 8-INCH (WHITE) | ⑦ PAVEMENT MARKING, ARROWS, EPOXY (WHITE TYPE 2) |
| ④ PAVEMENT MARKING, STOP LINE, EPOXY, 12-INCH (WHITE) | ⑧ PAVEMENT MARKING, ARROWS, EPOXY (WHITE TYPE 3) |

LEGEND

- 1 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW)
- 2 PAVEMENT MARKING, EPOXY, 4-INCH (WHITE)
- 6 PAVEMENT MARKING, CROSSWALK, EPOXY, 12-INCH (WHITE; 8' SPACING)



PROJECT NO: 7540-03-70

HWY: USH 12

COUNTY: JACKSON

PAVEMENT MARKING (NOT TO SCALE)

SHEET NO:

12

E

FILE NAME : c:\Users\PROJECTS\654AND12\54AND12\024505_pm_12.DGN

PLOT DATE : 22-OCT-2012 10:01

PLOT BY : DOTRYK

PLOT NAME :

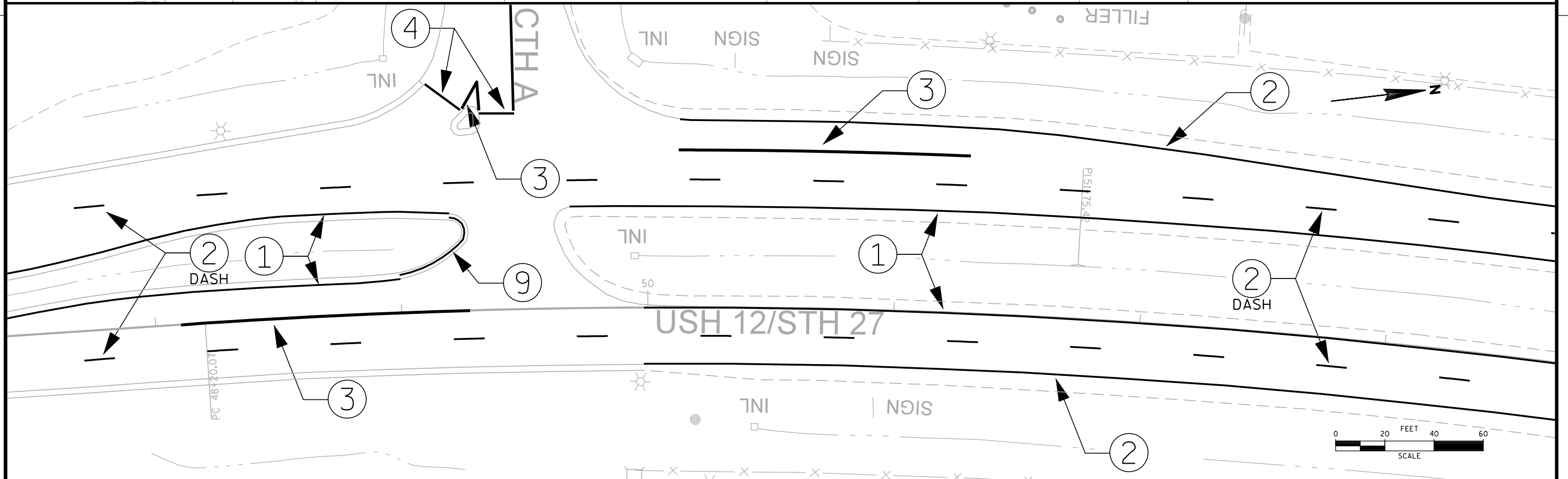
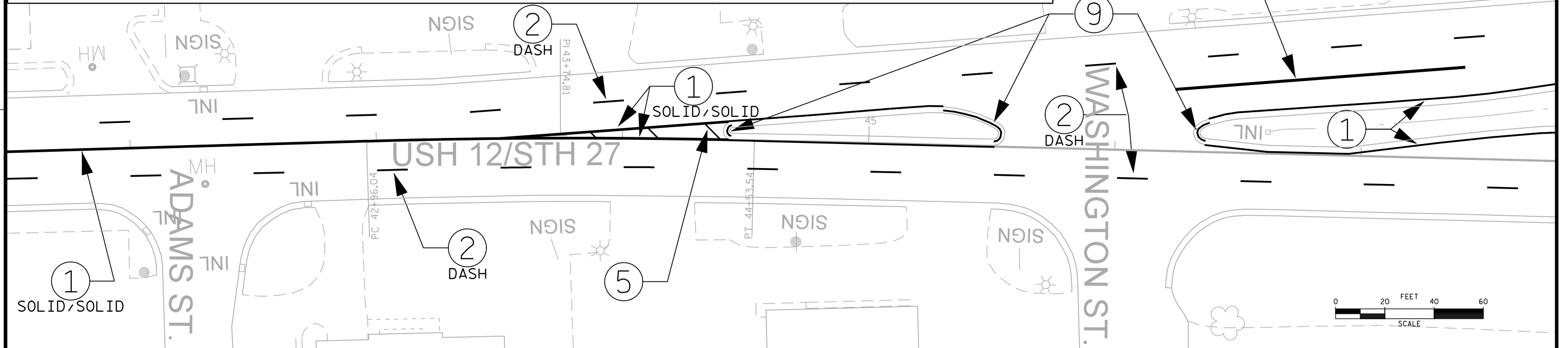
PLOT SCALE : 40:1

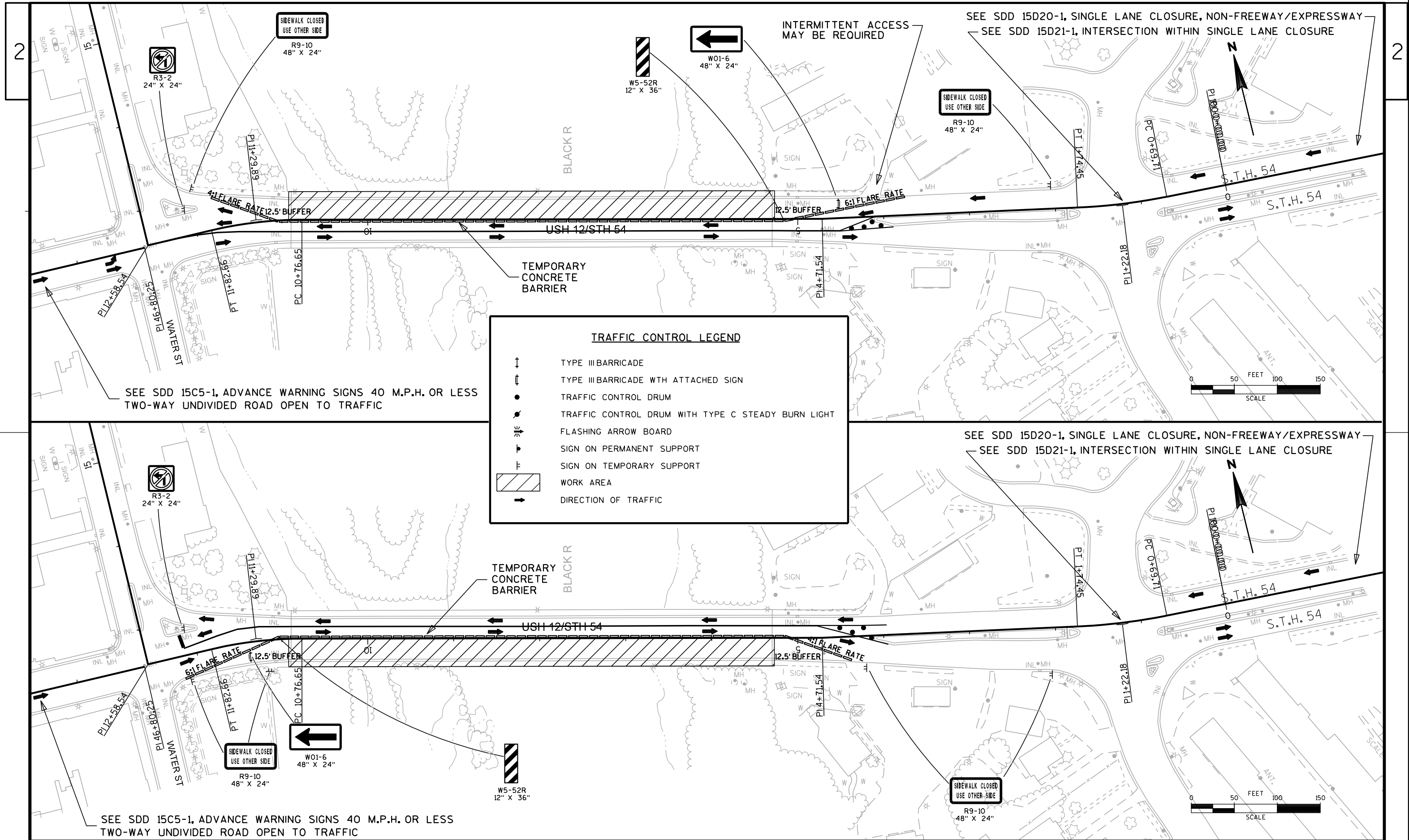
LEGEND

- 1 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW)
- 2 PAVEMENT MARKING, EPOXY, 4-INCH (WHITE)

- 3 PAVEMENT MARKING, CHANNELIZING, EPOXY, 8-INCH (WHITE)
- 4 PAVEMENT MARKING, STOP LINE, EPOXY, 12-INCH (WHITE)
- 5 PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH (YELLOW)

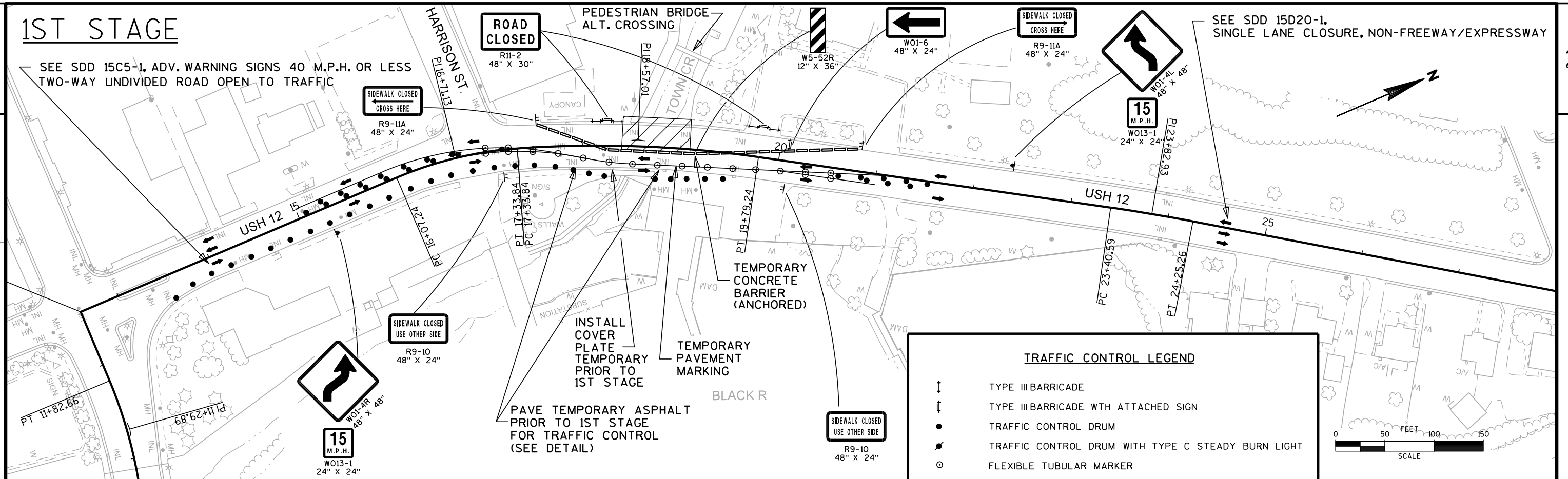
- 9 PAVEMENT MARKING, CURB EPOXY (YELLOW)





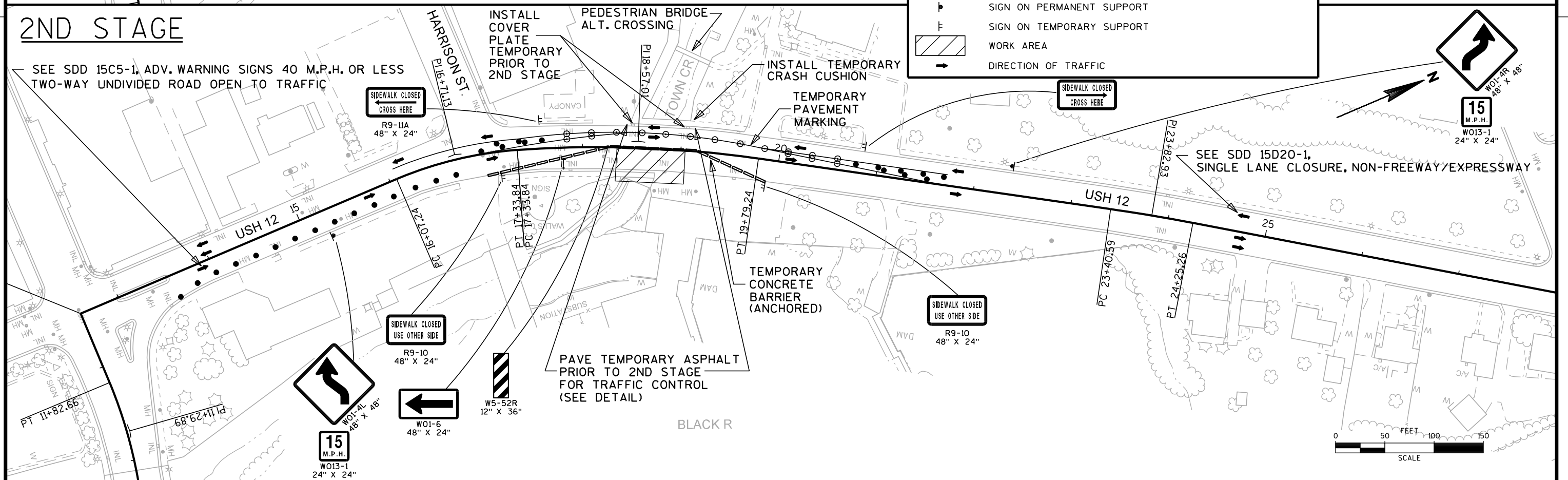
1ST STAGE

SEE SDD 15C5-1, ADV. WARNING SIGNS 40 M.P.H. OR LESS
TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC



2ND STAGE

SEE SDD 15C5-1, ADV. WARNING SIGNS 40 M.P.H. OR LESS
TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC



PROJECT NO: 7540-03-70

HWY: USH 12

COUNTY: JACKSON

TRAFFIC CONTROL DETAIL - TOWN CREEK BOX CULVERT (B-27-56)

SHEET NO:

15

E

FILE NAME : c:\Users\PROJECTS\6454AND12\54AND12\025030_1c.DGN

PLOT DATE : 25-OCT-2012 07:10

PLOT BY : dotkyk

PLOT NAME :

PLOT SCALE : 2:1

3RD STAGE

SEE SDD 15C5-1, ADV. WARNING SIGNS 40 M.P.H. OR LESS
TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

SIDEWALK CLOSED
USE OTHER SIDE

R9-10
48" X 24"

PEDESTRIAN BRIDGE
ALT. CROSSING

SIDEWALK CLOSED
USE OTHER SIDE

R9-10
48" X 24"

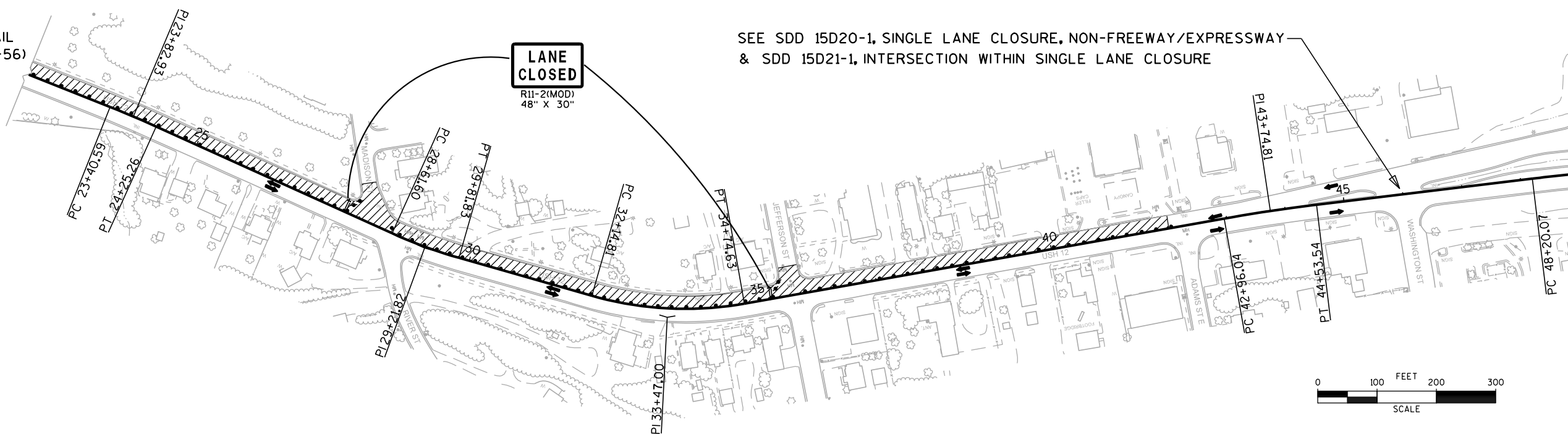
SEE SDD 15D20-1,
SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLEXIBLE TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC

SEE ALSO TRAFFIC CONTROL DETAIL
TOWN CREEK BOX CULVERT (B-27-56)

SEE SDD 15C5-1 FOR LAYOUT OF ADVANCE /
APPROACH SIGNS ON STH 54 & SIDE STREETS.



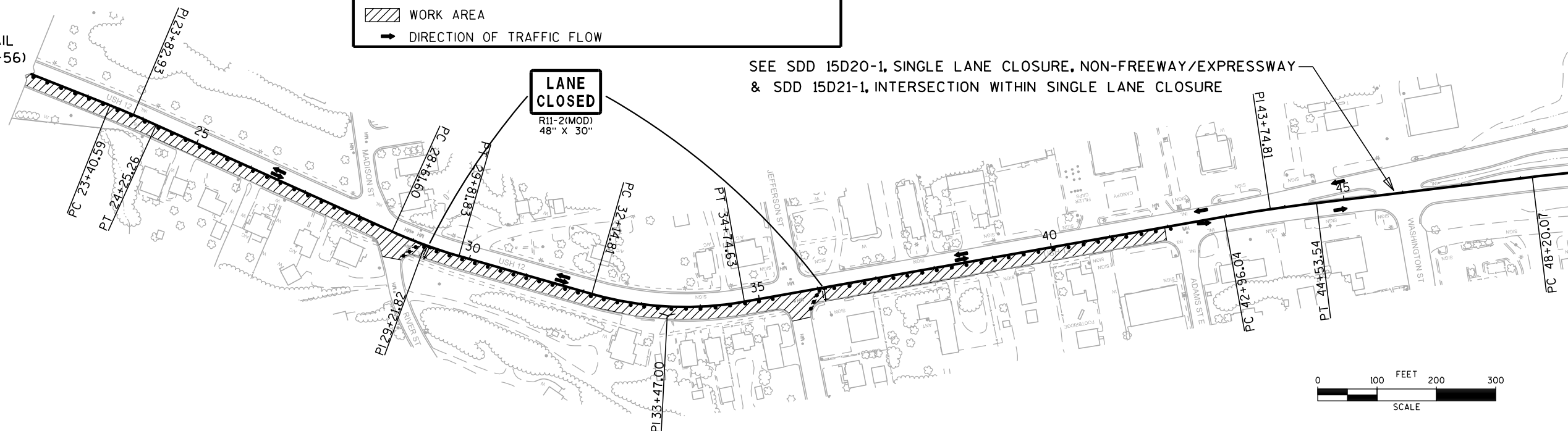
LEGEND

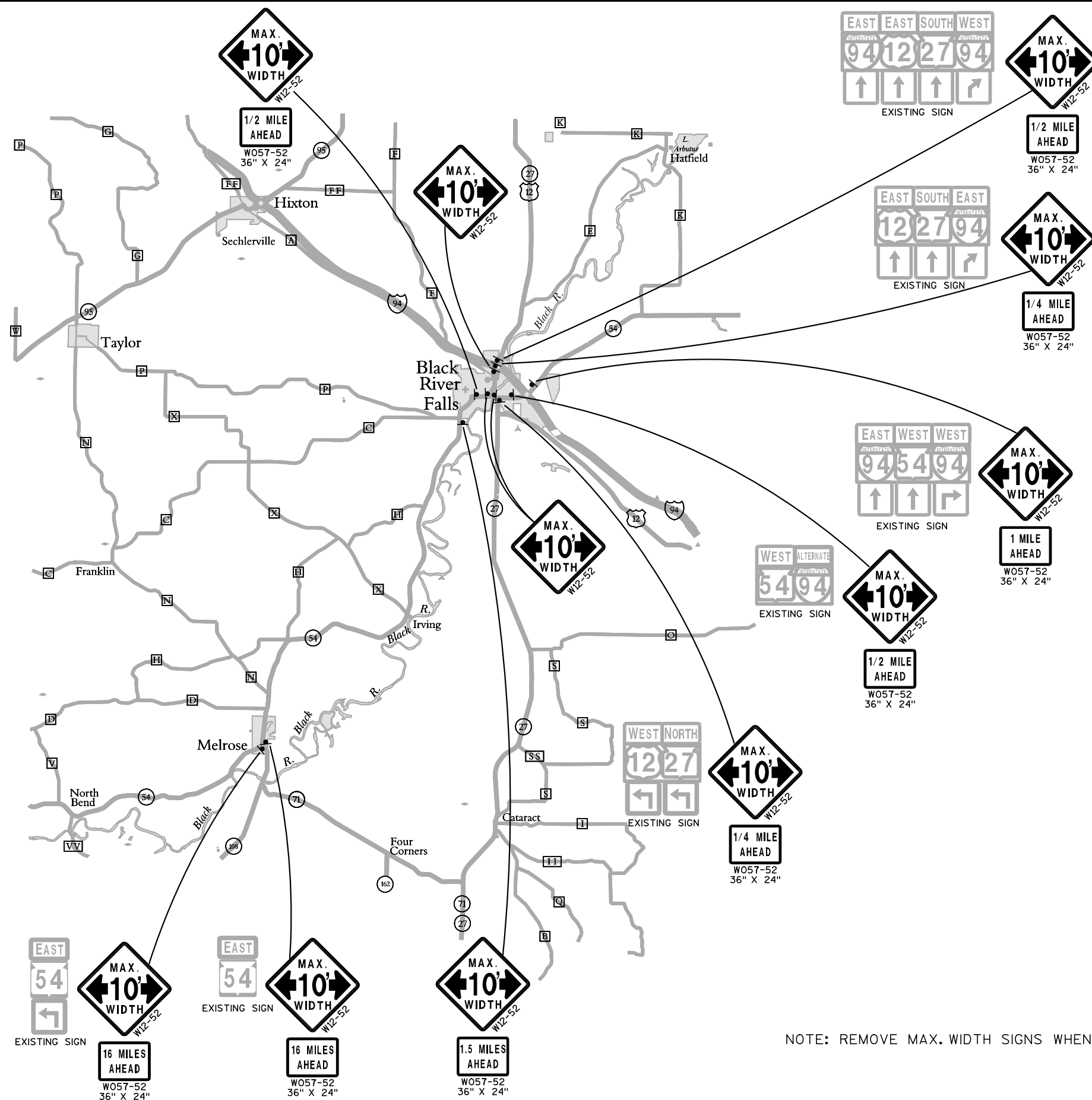
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

SEE SDD 15C5-1 FOR LAYOUT OF ADVANCE /
APPROACH SIGNS ON STH 54 & SIDE STREETS.

SEE ALSO TRAFFIC CONTROL DETAIL
TOWN CREEK BOX CULVERT (B-27-56)

SEE SDD 15D20-1, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
& SDD 15D21-1, INTERSECTION WITHIN SINGLE LANE CLOSURE





3

DATE 13FEB13		E S T I M A T E O F Q U A N T I T I E S			
LINE				7540-03-70	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY (STATION) 03. 18+76.00	LS	1.000	1.000
0020	204.0100	REMOVING PAVEMENT	SY	1,865.000	1,865.000
0030	204.0105	REMOVING PAVEMENT BUTT JOINTS	SY	1,097.000	1,097.000
0040	204.0109.S	REMOVING CONCRETE SURFACE PARTIAL DEPTH	SF	273,186.000	273,186.000
0050	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	224.000	224.000
0060	204.0155	REMOVING CONCRETE SIDEWALK	SY	92.000	92.000
0070	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 03. B-27-56	LS	1.000	1.000
0080	206.6000.S	TEMPORARY SHORING	SF	275.000	275.000
0090	209.0100	BACKFILL GRANULAR	CY	390.000	390.000
0100	210.0100	BACKFILL STRUCTURE	CY	360.000	360.000
0110	213.0100	FINISHING ROADWAY (PROJECT) 01. 7540-03-70	EACH	1.000	1.000
0130	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	352.000	352.000
0140	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	115.000	115.000
0150	320.0155	CONCRETE BASE 9-INCH	SY	350.000	350.000
0160	416.0620	DRILLED DOWEL BARS	EACH	64.000	64.000
0170	440.4410.S	INCENTIVE IRI RIDE	DOL	8,000.000	8,000.000
0180	455.0145	ASPHALTIC MATERIAL PG64-34P	TON	340.000	340.000
0190	455.0605	TACK COAT	GAL	1,778.000	1,778.000
0200	460.1110	HMA PAVEMENT TYPE E-10	TON	5,661.000	5,661.000
0210	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	3,625.040	3,625.040
0220	465.0110	ASPHALTIC SURFACE PATCHING	TON	210.000	210.000
0230	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	70.000	70.000
0240	502.3100	EXPANSION DEVICE (STRUCTURE) 02. B-27-73	LS	1.000	1.000
0250	502.3200	PROTECTIVE SURFACE TREATMENT	SY	3,312.000	3,312.000
0260	502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	SY	1,235.000	1,235.000
0270	504.0100	CONCRETE MASONRY CULVERTS	CY	115.000	115.000
0280	505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	10,855.000	10,855.000
0290	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4,365.000	4,365.000
0300	505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	5,450.000	5,450.000
0310	505.0904	BAR COUPLERS NO. 4	EACH	8.000	8.000
0320	505.0906	BAR COUPLERS NO. 6	EACH	24.000	24.000
0330	509.0301	PREPARATION DECKS TYPE 1	SY	34.000	34.000
0340	509.0302	PREPARATION DECKS TYPE 2	SY	4.000	4.000
0350	509.0500	CLEANING DECKS	SY	3,210.000	3,210.000
0360	509.1000	JOINT REPAIR	SY	59.000	59.000
0370	509.1500	CONCRETE SURFACE REPAIR	SF	250.000	250.000
0380	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	225.000	225.000
0390	509.9050.S	CLEANING PARAPETS	LF	1,180.000	1,180.000
0400	514.0900	ADJUSTING FLOOR DRAINS	EACH	4.000	4.000
0410	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	42.000	42.000
0420	517.0900.S	PREPARATION AND COATING OF TOP FLANGES (STRUCTURE) 02. B-27-73	LS	1.000	1.000
0430	517.1010.S	CONCRETE STAINING (STRUCTURE) 01.B-27-56	SF	1,425.000	1,425.000
0440	602.0410	CONCRETE SIDEWALK 5-INCH	SF	576.000	576.000
0450	602.0415	CONCRETE SIDEWALK 6-INCH	SF	747.000	747.000
0460	603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	1,100.000	1,100.000
0470	603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	2,200.000	2,200.000
0480	611.8110	ADJUSTING MANHOLE COVERS	EACH	32.000	32.000

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DATE 13FEB13		E S T I M A T E O F Q U A N T I T I E S			
LINE		7540-03-70			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0490	611.8120.S	COVER PLATES TEMPORARY	EACH	3.000	3.000
0500	614.0905	CRASH CUSHIONS TEMPORARY	EACH	1.000	1.000
0510	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01.7540-03-70	EACH	1.000	1.000
0530	619.1000	MOBILIZATION	EACH	0.750	0.750
0540	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	4.000	4.000
0550	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0560	628.5505	POLYETHYLENE SHEETING	SY	56.000	56.000
0570	628.6005	TURBIDITY BARRIERS	SY	30.000	30.000
0580	628.7015	INLET PROTECTION TYPE C	EACH	50.000	50.000
0590	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	24.000	24.000
0600	637.0202	SIGNS REFLECTIVE TYPE II	SF	527.670	527.670
0620	638.2602	REMOVING SIGNS TYPE II	EACH	82.000	82.000
0630	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	24.000	24.000
0640	642.5201	FIELD OFFICE TYPE C	EACH	0.750	0.750
0650	643.0100	TRAFFIC CONTROL (PROJECT) 01.7540-03-70	EACH	1.000	1.000
0670	643.0300	TRAFFIC CONTROL DRUMS	DAY	7,168.000	7,168.000
0680	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	952.000	952.000
0690	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	35.000	35.000
0700	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	35.000	35.000
0710	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	896.000	896.000
0720	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	56.000	56.000
0730	643.0900	TRAFFIC CONTROL SIGNS	DAY	4,130.000	4,130.000
0770	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	14,075.000	14,075.000
0780	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1,010.000	1,010.000
0790	646.0600	REMOVING PAVEMENT MARKINGS	LF	4,100.000	4,100.000
0800	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	6.000	6.000
0810	647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	7.000	7.000
0830	647.0456	PAVEMENT MARKING CURB EPOXY	LF	95.000	95.000
0840	647.0556	PAVEMENT MARKING STOP LINE EPOXY 12-INCH	LF	261.000	261.000
0860	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	50.000	50.000
0870	647.0776	PAVEMENT MARKING CROSSWALK EPOXY 12-INCH	LF	1,865.000	1,865.000
0880	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	12,800.000	12,800.000
0890	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	12,800.000	12,800.000
0900	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 03. B-27-56	LS	1.000	1.000
0910	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	7,564.000	7,564.000
0920	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 7540-03-70	LS	1.000	1.000
0940	690.0250	SAWING CONCRETE	LF	10,000.000	10,000.000
0950	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	690.000	690.000
0960	SPV.0090	SPECIAL 01. CLEANING CONCRETE JOINTS AND CRACKS	LF	6,715.000	6,715.000
0970	SPV.0090	SPECIAL 02. CURB HEAD REPAIR SPECIAL	LF	10.000	10.000
0980	SPV.0105	SPECIAL 01. PREPARE FOUNDATION FOR ASPHALTIC PAVING SPECIAL 7540-03-70	LS	1.000	1.000
0990	SPV.0105	SPECIAL 02. REMOVE AND RESET TUBULAR RAILING SPECIAL B-27-0073	LS	1.000	1.000
1000	SPV.0105	SPECIAL 03. MILLING AND REMOVING TEMPORARY JOINT 7540-03-70	LS	1.000	1.000

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DATE 13FEB13		E S T I M A T E O F Q U A N T I T I E S			
LINE					7540-03-70
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
1030	SPV.0165	SPECIAL 01. CONCRETE SIDEWALK CURE AND SEAL TREATMENT	SF	1,323.000	1,323.000
1040	SPV.0180	SPECIAL 01. CONCRETE PAVEMENT REPAIR NON-DOWELED SPECIAL	SY	1,700.000	1,700.000
1050	SPV.0180	SPECIAL 02. CONCRETE PAVEMENT REPLACEMENT NON-DOWELED SPECIAL	SY	50.000	50.000

REMOVING PAVEMENT

				204.0100	REMARKS
CATEGORY	STATION TO	STATION	LOCATION	SY	
0010	49+00 -	55+50	USH 12, WB	800	CTH A TO IH 94
0010	49+00 -	53+50	USH 12, EB	800	CTH A TO IH 94
0010	0+00 -	49+00	USH 12	150	ROOSEVELT RD. TO CTH A
0010	18+50 -	19+00	USH 12	115	B-27-56 APPROACHES
TOTAL 0010				1865	

REMOVING PAVEMENT BUTT JOINTS

				204.0105	REMARKS
CATEGORY	STATION TO	STATION	LOCATION	SY	
0010		997+18	USH 12, WB	62	
0010		997+18	USH 12, EB	62	
0010		5+25	USH 12	133	
0010		10+95	USH 12	133	
0010		18+60	USH 12	107	
0010		18+95	USH 12	107	
0010			ROOSEVELT RD.	126	
0010			WATER ST.	44	
0010			HARRISON ST.	51	
0010			MADISON ST.	33	
0010			RIVER ST.	29	
0010			JEFFERSON ST.	84	
0010			ADAMS ST.	38	
0010			WASHINGTON ST.	46	
0010			CTH A	42	
TOTAL 0010				1097	

REMOVING CONCRETE SURFACE PARTIAL DEPTH

				204.0109.S	REMARKS
CATEGORY	STATION TO	STATION	LOCATION	SF	
0010	997+18 -	1000+00	USH 12	18576	
0010	0+00 -	5+20	USH 12	37360	
0010	11+00 -	44+00	USH 12	161800	
0010	44+00 -	49+00	USH 12	37200	
0010			ROOSEVELT RD.	10500	
0010			WATER ST.	2250	
0010			HARRISON ST.	875	
0010			MADISON ST.	875	
0010			RIVER ST.	875	
0010			JEFFERSON ST.	875	
0010			ADAMS ST.	1000	
0010			WASHINGTON ST.	1000	
TOTAL 0010				273186	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

				204.0115	REMARKS
CATEGORY	STATION TO	STATION	LOCATION	SY	
0010		55+50	USH 12, WB	84	
0010		53+50	USH 12, EB	84	
0010		12+60	USH 12, LT.	56	MAIN ST. WEST
TOTAL 0010				224	

REMOVING CONCRETE SIDEWALK

				204.0155	REMARKS
CATEGORY	STATION TO	STATION	LOCATION	SY	
0010	18+00 -	19+50	USH 12, LT. & RT.	28	B-27-56 ALONG WINGS
0010	18+00 -	19+50	USH 12, LT. & RT.	64	B-27-56 APPROACHES IF DAMAGED BY TRAFFIC
TOTAL 0010				92	

BACKFILL GRANULAR

				209.0100	REMARKS
CATEGORY	STATION TO	STATION	LOCATION	CY	
0010	18+50 -	19+00	USH 12	390	ROADWAY OVER B-27-56
TOTAL 0010				390	

BASE AGGREGATE DENSE 3/4-INCH

				305.0110	REMARKS
CATEGORY	STATION TO	STATION	LOCATION	TON	
0010	49+00 -	55+50	USH 12, WB	208	
0010	49+00 -	53+50	USH 12, EB	144	
TOTAL 0010				352	

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BASE AGGREGATE DENSE 1 1/4-INCH						CONCRETE BASE 9-INCH					
			305.0120						320.0155		
CATEGORY	STATION TO	STATION	LOCATION	TON	REMARKS	CATEGORY	STATION TO	STATION	LOCATION	SY	REMARKS
0010	18+50	- 19+00	USH 12	115	ROADWAY OVER B-27-56	0010	18+50	- 19+00	USH 12	350	ROADWAY OVER B-27-56
			TOTAL 0010	115					TOTAL 0010	350	
DRILLED DOWEL BARS						ASPHALT ITEMS					
			416.0620						ASPHALTIC MATERIAL PG64-34P 455.0145		
CATEGORY	STATION TO	STATION	LOCATION	EACH	REMARKS	CATEGORY	STATION TO	STATION	LOCATION	TON	REMARKS
0010	18+50	- 19+00	USH 12	64	B-27-56 APPROACHES	0010	997+18	- 0+00	USH 12	16	
			TOTAL 0010	64		0010	0+00	- 49+00	USH 12	248	INCL. ROADWAY OVER B-27-56
						0010	49+00	- 55+50	USH 12, WB	38	
						0010	49+00	- 53+50	USH 12, EB	37	
									TOTAL 0010	340	
ASPHALTIC SURFACE PATCHING						ASPHALTIC SURFACE TEMPORARY					
			465.0110						465.0125		
CATEGORY	STATION TO	STATION	LOCATION	TON	REMARKS	CATEGORY	STATION TO	STATION	LOCATION	TON	REMARKS
0010	997+18	- 1000+00	USH 12	155	FILLING CLEANED CONCRETE JOINTS/CRACKS	0010	17+80	- 18+75	USH 12, RT.	12	B-27-56 TRAFFIC CONTROL
0010	0+00	- 49+00	USH 12	10	FILLING CLEANED CONCRETE JOINTS/CRACKS	0010	18+50	- 19+50	USH 12, LT.	48	B-27-56 TRAFFIC CONTROL
0010	49+00	- 55+50	USH 12	45	FILLING CLEANED CONCRETE JOINTS/CRACKS	0010			USH 12	10	TEMPORARY WEDGES
			TOTAL 0010	210					TOTAL 0010	70	
CONCRETE SIDEWALK 5-INCH						CONCRETE SIDEWALK 6-INCH					
			602.0410						602.0415		
CATEGORY	STATION TO	STATION	LOCATION	SF	REMARKS	CATEGORY	STATION TO	STATION	LOCATION	SF	REMARKS
0010	18+00	- 19+50	USH 12, LT. & RT.	576	B-27-56 APPROACHES IF DAMAGED BY TRAFFIC	0010	18+50	- 19+00	USH 12, LT. & RT.	495	OVER B-27-56
			TOTAL 0010	576		0010	18+50	- 19+00	USH 12, LT. & RT.	252	B-27-56 ALONG WINGS
									TOTAL 0010	747	

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CONCRETE BARRIER TEMPORARY PRECAST

CATEGORY	STATION TO	STATION	LOCATION	DELIVERED	INSTALLED	REMARKS
				603.8000 LF	603.8125 LF	
0010	17+00	- 21+00	USH 12	300	600	B-27-56 TRAFFIC CONTROL
0010	4+00	- 12+00	USH 12	800	1600	B-27-73 TRAFFIC CONTROL
TOTAL 0010				1100	2200	

ADJUSTING MANHOLE COVERS

CATEGORY	STATION TO	STATION	LOCATION	611.8110 EACH	REMARKS
0010		998+75	USH 12, LT.	1	STORM SEWER MANHOLE
0010		0+50	USH 12, LT.	1	STORM SEWER MANHOLE
0010		1+30	USH 12, LT.	1	STORM SEWER MANHOLE
0010		2+20	USH 12, LT.	1	STORM SEWER MANHOLE
0010		4+70	USH 12, LT.	1	STORM SEWER MANHOLE
0010		5+00	USH 12, RT.	1	STORM SEWER MANHOLE
0010		12+50	USH 12, LT.	1	STORM SEWER MANHOLE
0010		12+80	USH 12, RT.	1	STORM SEWER MANHOLE
0010		14+20	USH 12, RT.	1	STORM SEWER MANHOLE
0010		17+00	USH 12, RT.	1	STORM SEWER MANHOLE
0010		17+80	USH 12, RT.	1	STORM SEWER MANHOLE
0010		18+20	USH 12, RT.	1	STORM SEWER MANHOLE
0010		28+90	USH 12, LT.	1	STORM SEWER MANHOLE
0010		29+00	USH 12, RT.	1	STORM SEWER MANHOLE
0010		29+10	USH 12, LT.	1	STORM SEWER MANHOLE
0010		39+00	USH 12, LT.	1	STORM SEWER MANHOLE
0010		46+00	USH 12, RT.	1	STORM SEWER MANHOLE
TOTAL 0010				17	

0040	997+70	USH 12, RT.	1	SANITARY SEWER MANHOLE
0040	998+20	USH 12, LT.	1	SANITARY SEWER MANHOLE
0040	0+35	USH 12, LT.	1	SANITARY SEWER MANHOLE
0040	12+60	USH 12, LT.	1	SANITARY SEWER MANHOLE
0040	13+40	USH 12, RT.	1	SANITARY SEWER MANHOLE
0040	15+00	USH 12, LT.	1	SANITARY SEWER MANHOLE
0040	15+40	USH 12, RT.	1	SANITARY SEWER MANHOLE
0040	17+00	USH 12, LT.	1	SANITARY SEWER MANHOLE
0040	17+20	USH 12, RT.	1	SANITARY SEWER MANHOLE
0040	23+70	USH 12, RT.	1	SANITARY SEWER MANHOLE
0040	23+80	USH 12, RT.	1	SANITARY SEWER MANHOLE
0040	35+60	USH 12, LT.	1	SANITARY SEWER MANHOLE
0040	35+60	USH 12, RT.	1	SANITARY SEWER MANHOLE
0040	38+20	USH 12, LT.	1	SANITARY SEWER MANHOLE
0040	42+30	USH 12, RT.	1	SANITARY SEWER MANHOLE
TOTAL 0040				15

COVER PLATES TEMPORARY

CATEGORY	STATION TO	STATION	LOCATION	611.8120.S EACH	REMARKS
0010		18+30	USH 12, RT.	1	B-27-56 TRAFFIC CONTROL
0010		18+50	USH 12, LT.	1	B-27-56 TRAFFIC CONTROL
0010		19+05	USH 12, LT.	1	B-27-56 TRAFFIC CONTROL
TOTAL 0010				3	

CRASH CUSHIONS TEMPORARY

CATEGORY	STATION TO	STATION	LOCATION	614.0905 EACH	REMARKS
0010		19+10	USH 12, LT.	1	B-27-56 TRAFFIC CONTROL
TOTAL 0010				1	

POLYETHYLENE SHEETING

CATEGORY	STATION TO	STATION	LOCATION	628.5505 SY	REMARKS
0010	18+50	- 19+00	USH 12	56	B-27-56; 1:1 SLOPE PROTECTION
TOTAL 0010				56	

TURBIDITY BARRIERS

CATEGORY	LOCATION	628.6005 SY	REMARKS
0010	B-27-56	30	
TOTAL 0010		30	

INLET PROTECTION TYPE C

CATEGORY	STATION TO	STATION	LOCATION	628.7015 EACH	REMARKS
0010	997+18	- 55+50	USH 12	50	
TOTAL 0010				50	

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(CONTINUED ON NEXT SHEET)

PERMANENT SIGNS																		

TRAFFIC CONTROL

CATEGORY	STATION TO	STATION	LOCATION	DRUMS	BARRICADES	WARNING	ARROW	SIGNS	REMARKS
				643.0300 DAYS	TYPE III 643.0420 DAYS	LIGHTS TYPE C 643.0715 DAYS	BOARDS 643.0800 DAYS	643.0900 DAYS	
0010	0+00 -	55+50	USH 12	3808	336	896	56	1848	USH 12 RESURF.
0010	17+00 -	21+00	USH 12	1680	336	-	-	1050	B-27-56
0010	4+00 -	12+00	USH 12	1680	280	-	-	1232	B-27-73
TOTAL 0010				7168	952	896	56	4130	

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER

CATEGORY	STATION TO	STATION	LOCATION	POSTS	BASES	REMARKS
				643.0500 EACH	643.0600 EACH	
0010	17+00 -	20+50	USH 12	35	35	B-27-56
TOTAL 0010				35	35	

PAVEMENT MARKING EPOXY 8-INCH

CATEGORY	STATION TO	STATION	LOCATION	646.0126	REMARKS
				LF	
0010	998+70 -	1000+00	USH 12	130	WHITE
0010	0+00 -	0+70	USH 12	70	WHITE
0010	11+00 -	12+20	USH 12	185	WHITE
0010	13+00 -	14+20	USH 12	120	WHITE
0010	1+95 -	2+80	USH 12	85	WHITE
0010	46+25 -	47+45	USH 12	120	WHITE
0010	48+10 -	49+30	USH 12	120	WHITE
0010	50+10 -	51+30	USH 12	120	WHITE
0010		ROOSEVELDT RD. INT.		30	WHITE
0010		CTH A INT.		30	WHITE
TOTAL 0010				1010	

PAVEMENT MARKING EPOXY 4-INCH

CATEGORY	STATION TO	STATION	LOCATION	646.0106	REMARKS
				LF	
0010	3+90 -	12+25	USH 12	1870	YELLOW
0010	13+55 -	16+65	USH 12	620	YELLOW
0010	16+75 -	28+50	USH 12	2350	YELLOW
0010	28+60 -	35+75	USH 12	1430	YELLOW
0010	35+85 -	43+65	USH 12	1560	YELLOW
0010	43+65 -	45+50	USH 12	530	YELLOW
0010	46+30 -	49+20	USH 12	580	YELLOW
0010	49+70 -	55+50	USH 12	960	YELLOW
0010		ROOSEVELDT RD. INT.		400	YELLOW
0010		CTH A INT.		100	YELLOW
0010	997+15 -	1000+00	USH 12	150	WHITE
0010	0+00 -	0+70	USH 12	25	WHITE
0010	1+90 -	12+25	USH 12	500	WHITE
0010	13+00 -	55+50	USH 12	2000	WHITE
0010	50+00 -	55+50	USH 12	900	WHITE
0010		ROOSEVELDT RD. INT.		100	WHITE
TOTAL 0010				14075	

REMOVING PAVEMENT MARKINGS

CATEGORY	STATION TO	STATION	LOCATION	646.0600	REMARKS
				LF	
0010			USH 12	1600	B-27-56 TRAFFIC CONTROL
0010			USH 12	2000	B-27-73 TRAFFIC CONTROL
0010			USH 12	500	USH 12 TRAFFIC CONTROL
TOTAL 0010				4100	

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PAVEMENT MARKING ARROWS EPOXY TYPE 2

		647.0166			
CATEGORY	STATION TO STATION	LOCATION	EACH	REMARKS	
0010	999+20	USH 12, LT.	1	WHITE	
0010	0+20	USH 12, LT.	1	WHITE	
0010	2+40	USH 12, LT.	1	WHITE	
0010	13+00 - 14+00	USH 12, LT.	3	WHITE	
TOTAL 0010			6		

PAVEMENT MARKING CURB EPOXY

		647.0456			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010	44+40	USH 12, LT.	10	YELLOW	
0010	45+50	USH 12, LT.	30	YELLOW	
0010	46+30	USH 12, LT.	15	YELLOW	
0010	49+30	USH 12, LT.	40	YELLOW	
TOTAL 0010			95		

PAVEMENT MARKING CROSSWALK EPOXY 12-INCH

		647.0776			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010	0+60 - 1+90	USH 12	715	WHITE	
0010	12+25 - 12+95	USH 12	325	WHITE	
0010	16+65 - 17+10	USH 12	200	WHITE	
0010	27+80 - 29+00	USH 12	335	WHITE	
0010	35+25 - 35+90	USH 12	290	WHITE	
TOTAL 0010			1865		

PAVEMENT MARKING ARROWS EPOXY TYPE 3

		647.0176			
CATEGORY	STATION TO STATION	LOCATION	EACH	REMARKS	
0010	2+40	USH 12, LT.	1	WHITE	
0010	11+35 - 12+15	USH 12, LT.	3	WHITE	
0010	13+00 - 14+00	USH 12, LT.	3	WHITE	
TOTAL 0010			7		

PAVEMENT MARKING STOP LINE EPOXY 12-INCH

		647.0556			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010	0+65	USH 12	36	WHITE	
0010	1+00	USH 12, LT.	50	WHITE	
0010	1+50	USH 12, RT.	40	WHITE	
0010	1+95	USH 12, LT.	40	WHITE	
0010	12+20	USH 12, RT.	15	WHITE	
0010	12+50	USH 12, LT.	20	WHITE	
0010	13+00	USH 12, LT.	25	WHITE	
0010		CTH A	35	WHITE	
TOTAL 0010			261		

PAVEMENT MARKING DIAGONAL EPOXY 12-INCH

		647.0726			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010	4+00 - 5+00	USH 12	30	YELLOW	
0010	43+60 - 44+45	USH 12	20	YELLOW	
TOTAL 0010			50		

TEMPORARY PAVEMENT MARKING 4-INCH

		649.0100			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010	15+00 - 22+00	USH 12	2600	B-27-56	
0010	3+00 - 12+50	USH 12	3200	B-27-73	
0010	0+00 - 49+00	USH 12	7000	USH 12	
TOTAL 0010			12800		

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TEMPORARY PAVEMENT MARKING REMOVABLE TAPE

CATEGORY	STATION TO	STATION	LOCATION	649.0400 LF	REMARKS
0010	15+00	- 22+00	USH 12	2600	B-27-56
0010	3+00	- 12+50	USH 12	3200	B-27-73
0010	0+00	- 49+00	USH 12	7000	USH 12
TOTAL 0010				12800	

SAWING CONCRETE

CATEGORY	STATION TO	STATION	LOCATION	690.0250 LF	REMARKS
0010	49+00	- 55+50	USH 12, WB	4525	CTH A TO IH 94
0010	49+00	- 53+50	USH 12, EB	4525	CTH A TO IH 94
0010	0+00	- 49+00	USH 12	850	ROOSEVELT RD. TO CTH A
0010	18+50	- 19+00	USH 12	100	B-27-56 APPROACHES
TOTAL 0010				10000	

CURB HEAD REPAIR SPECIAL

CATEGORY	STATION TO	STATION	LOCATION	SPV.0090.02 LF	REMARKS
0010			USH 12	10	UNDISTRIBUTED
TOTAL 0010				10	

CONCRETE PAVEMENT REPAIR NON-DOWELED SPECIAL

CATEGORY	STATION TO	STATION	LOCATION	SPV.0180.01 SY	REMARKS
0010	49+00	- 55+50	USH 12, WB	800	CTH A TO IH 94
0010	49+00	- 53+50	USH 12, EB	800	CTH A TO IH 94
0010	0+00	- 49+00	USH 12	100	ROOSEVELT RD. TO CTH A
TOTAL 0010				1700	

CONSTRUCTION STAKING RESURFACING REFERENCE

CATEGORY	STATION TO	STATION	LOCATION	650.8000 LF	REMARKS
0010	997+18	- 1000+00	USH 12 EB	282	
0010	997+18	- 1000+00	USH 12 WB	282	
0010	0+00	- 4+00	USH 12 EB	400	
0010	0+00	- 4+00	USH 12 WB	400	
0010	4+00	- 44+00	USH 12 EB & WB	4000	
0010	44+00	- 56+00	USH 12 EB	1200	
0010	44+00	- 54+00	USH 12 WB	1000	
TOTAL 0010				7564	

CLEANING CONCRETE JOINTS AND CRACKS

CATEGORY	STATION TO	STATION	LOCATION	SPV.0090.01 LF	REMARKS
0010	997+18	- 1000+00		325	ROOSEVELT RD. TO CTH A
0010	0+00	- 49+00		5645	ROOSEVELT RD. TO CTH A
0010	49+00	- 55+50		745	CTH A TO IH 94
TOTAL 0010				6715	

CONCRETE SIDEWALK CURE AND SEAL TREATMENT

CATEGORY	STATION TO	STATION	LOCATION	SPV.0165.01 SF	REMARKS
0010	18+00	- 19+50	USH 12, LT. & RT.	576	B-27-56 APPROACHES IF DAMAGED BY TRAFFIC
0010	18+50	- 19+00	USH 12, LT. & RT.	495	OVER B-27-56
0010	18+50	- 19+00	USH 12, LT. & RT.	252	B-27-56 ALONG WINGS
TOTAL 0010				1323	

CONCRETE PAVEMENT REPLACEMENT NON-DOWELED SPECIAL

CATEGORY	STATION TO	STATION	LOCATION	SPV.0180.02 SY	REMARKS
0010	0+00	- 55+50	USH 12	50	ROOSEVELT RD. TO IH 94
TOTAL 0010				50	

Curve Data
* = 18°56'25.82" (RT)
D = 14°57'39.26"
T = 63.88
L = 126.60
E = 5.29
R = 382.97
PC STA = 16+07.24
PI STA = 16+71.13
PT STA = 17+33.84

Curve Data
* = 12°16'12.22" (RT)
D = 5°00'00.09"
T = 123.17
L = 245.40
E = 6.60
R = 1145.91
PC STA = 17+33.84
PI STA = 18+57.01
PT STA = 19+79.24

Curve Data
* = 2°41'40.79" (RT)
D = 3°10'58.00"
T = 42.34
L = 84.66
E = 0.50
R = 1800.18
PC STA = 23+40.59
PI STA = 23+82.93
PT STA = 24+25.26

Curve Data
* = 13°15'05.95" (LT)
D = 12°30'00.00"
T = 53.24
L = 106.01
E = 3.08
R = 458.37
PC STA = 10+76.65
PI STA = 11+29.89
PT STA = 11+82.66

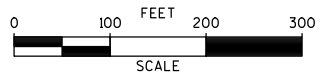
Curve Data
* = 8°46'52.87" (RT)
D = 8°22'59.50"
T = 52.48
L = 104.75
E = 2.01
R = 683.46
PC STA = 0+69.71
PI STA = 1+22.18
PT STA = 1+74.45

Curve Data
* = 8°25'00.00" (LT)
D = 7°00'00.00"
T = 60.23
L = 120.24
E = 2.21
R = 818.51
PC STA = 28+61.60
PI STA = 29+21.82
PT STA = 29+81.83

Curve Data
* = 25°58'54.50" (LT)
D = 10°00'00.00"
T = 132.18
L = 259.82
E = 15.05
R = 572.96
PC STA = 32+14.81
PI STA = 33+47.00
PT STA = 34+74.63

LEGEND

REMOVING PAVEMENT BUTT JOINTS OR
REMOVING ASPHALTIC SURFACE BUTT JOINTS



STRUCTURE B-27-73
(DECK OVERLAY)
SEE STRUCTURE PLANS

STRUCTURE B-27-56
(TOP SLAB REPLACEMENT)
SEE STRUCTURE PLANS

BEGIN PROJECT
STA. 997+18

EQUATION
STA. 0+00 AH/1000+00 BK

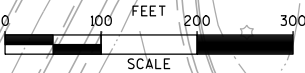
Curve Data
* = 3°09'00.00" (RT)
D = 2°00'00.00"
T = 78.77
L = 157.50
E = 1.08
R = 2864.79
PC STA = 42+96.04
PI STA = 43+74.81
PT STA = 44+53.54

Curve Data
* = 14°08'30.62" (RT)
D = 2°00'00.00"
T = 355.35
L = 707.09
E = 21.96
R = 2864.79
PC STA = 48+20.07
PI STA = 51+75.42
PT STA = 55+27.16

END PROJECT
STA. 55+50

LEGEND

REMOVING PAVEMENT BUTT JOINTS OR
REMOVING ASPHALTIC SURFACE BUTT JOINTS



PROJECT NO: 7540-03-70

HWY: USH 12

COUNTY: JACKSON

PLAN

SHEET NO:

31

E

FILE NAME : c:\Users\PROJECTS\D6+54AND12+54AND12+050101\p12.DGN

PLOT DATE : 05-FEB-2013 09:06

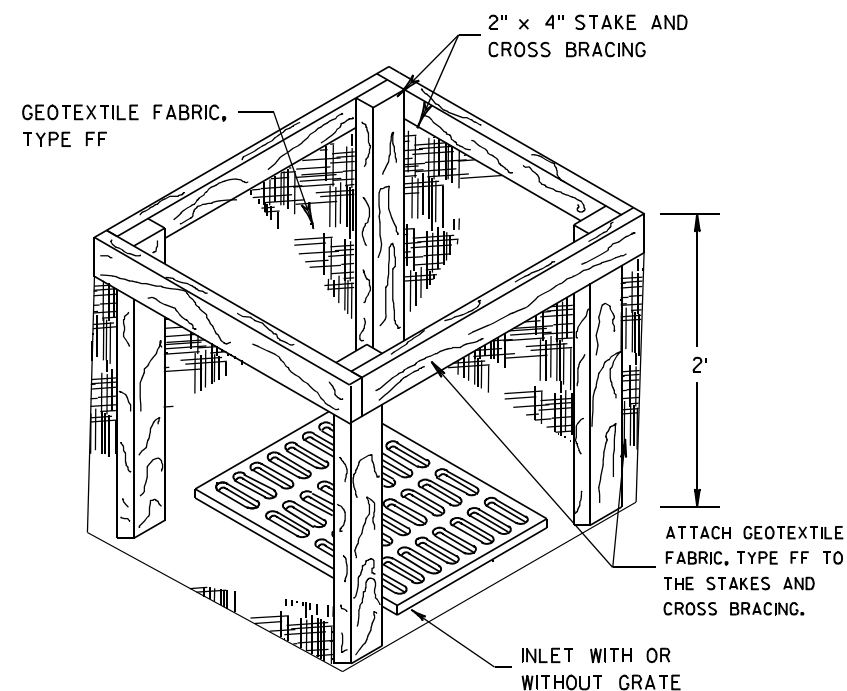
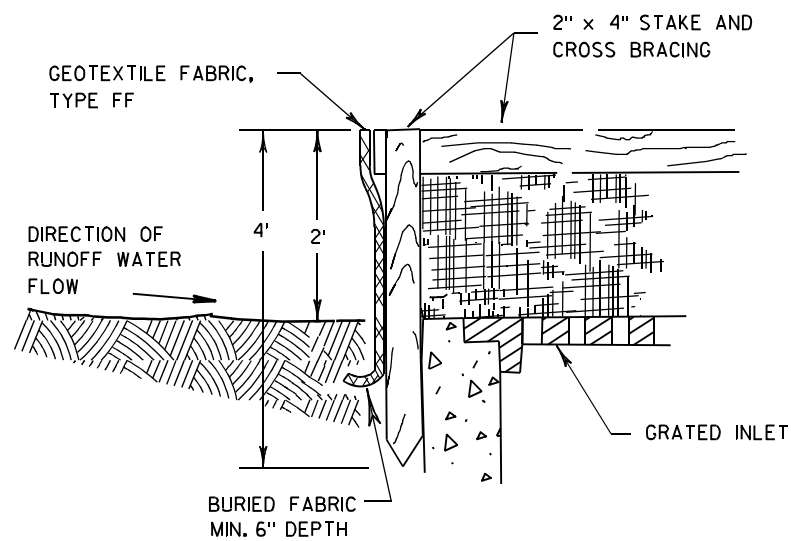
PLOT BY : dotkyk

PLOT NAME :

PLOT SCALE : 2:1

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
13C15-05A	CONCRETE BASE
13C15-05B	CONCRETE BASE
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-01	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE



INLET PROTECTION, TYPE A

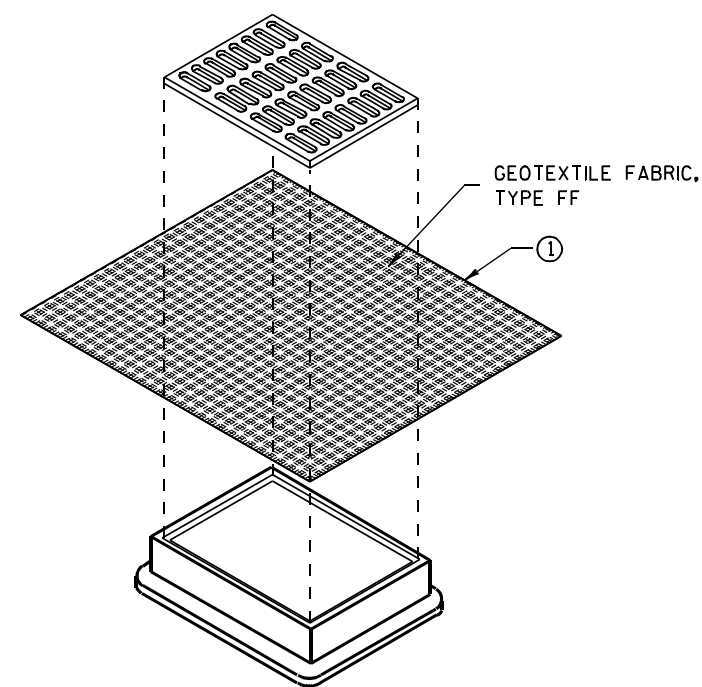
GENERAL NOTES

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

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

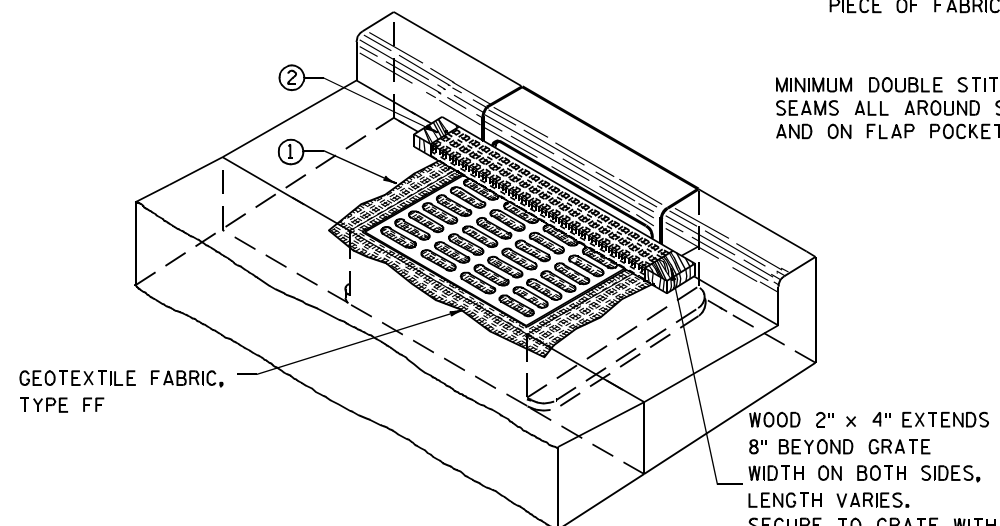
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

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



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

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

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

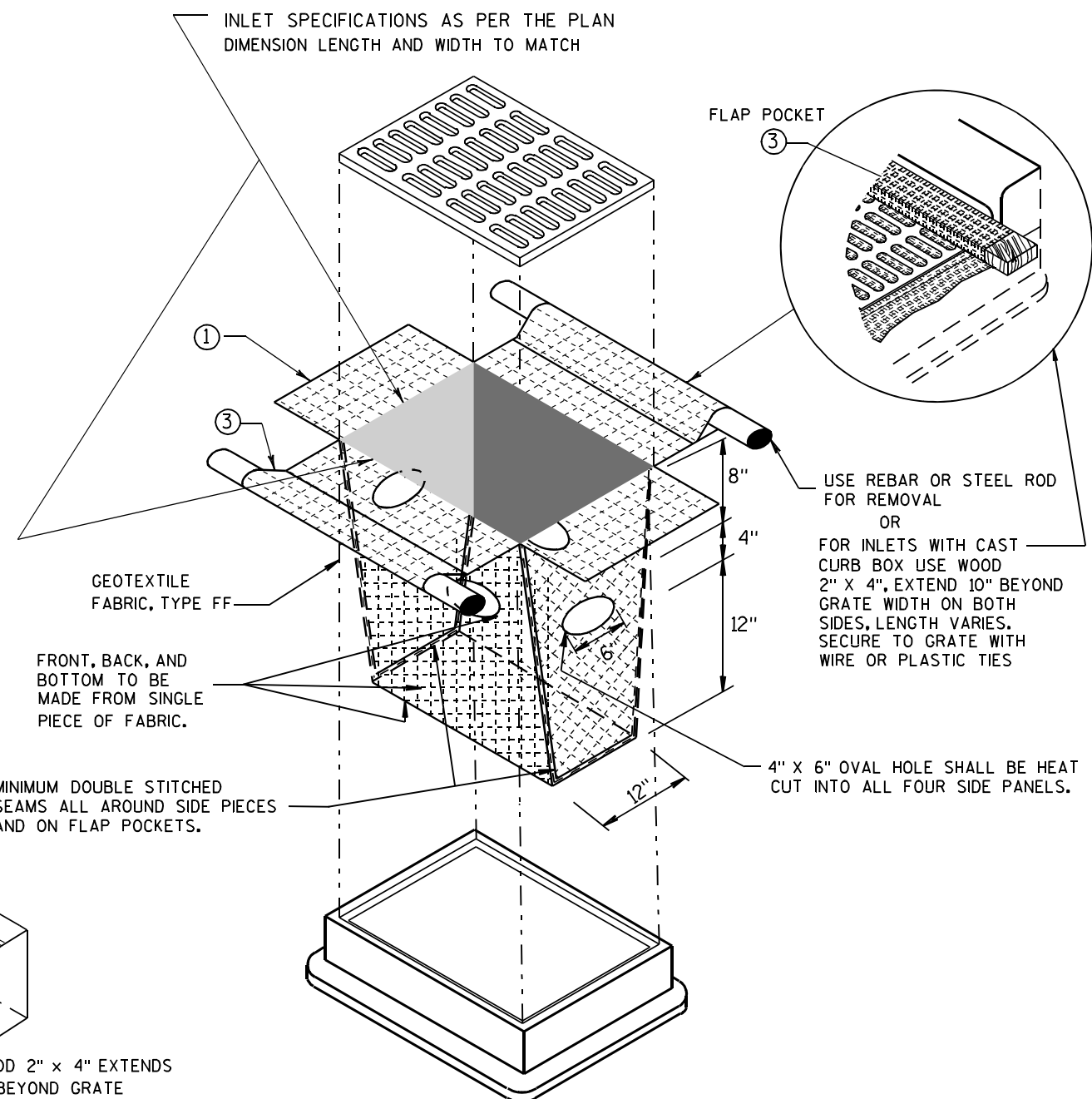
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

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

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

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



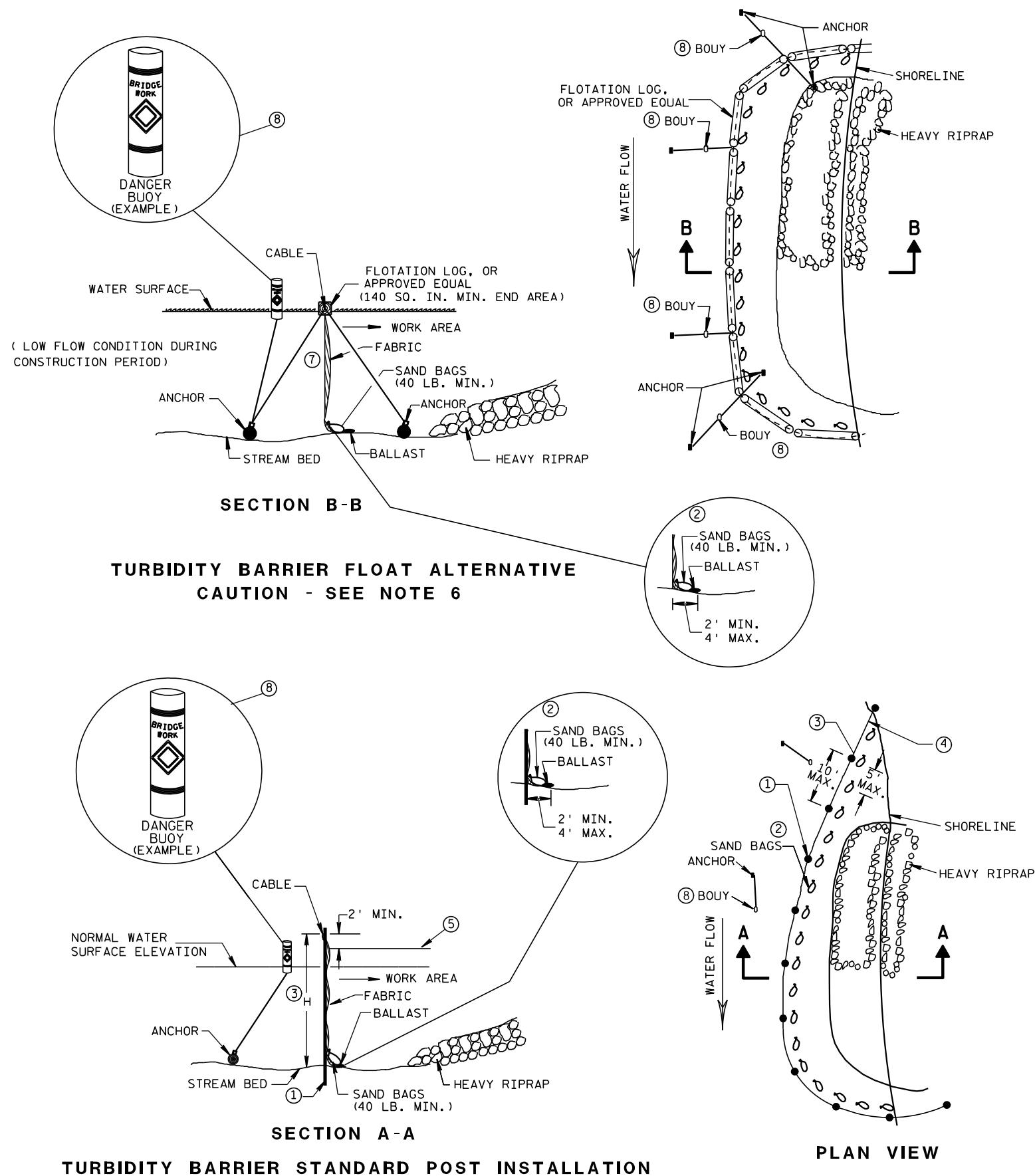
INLET PROTECTION, TYPE D

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Connolly
DATE 33
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER

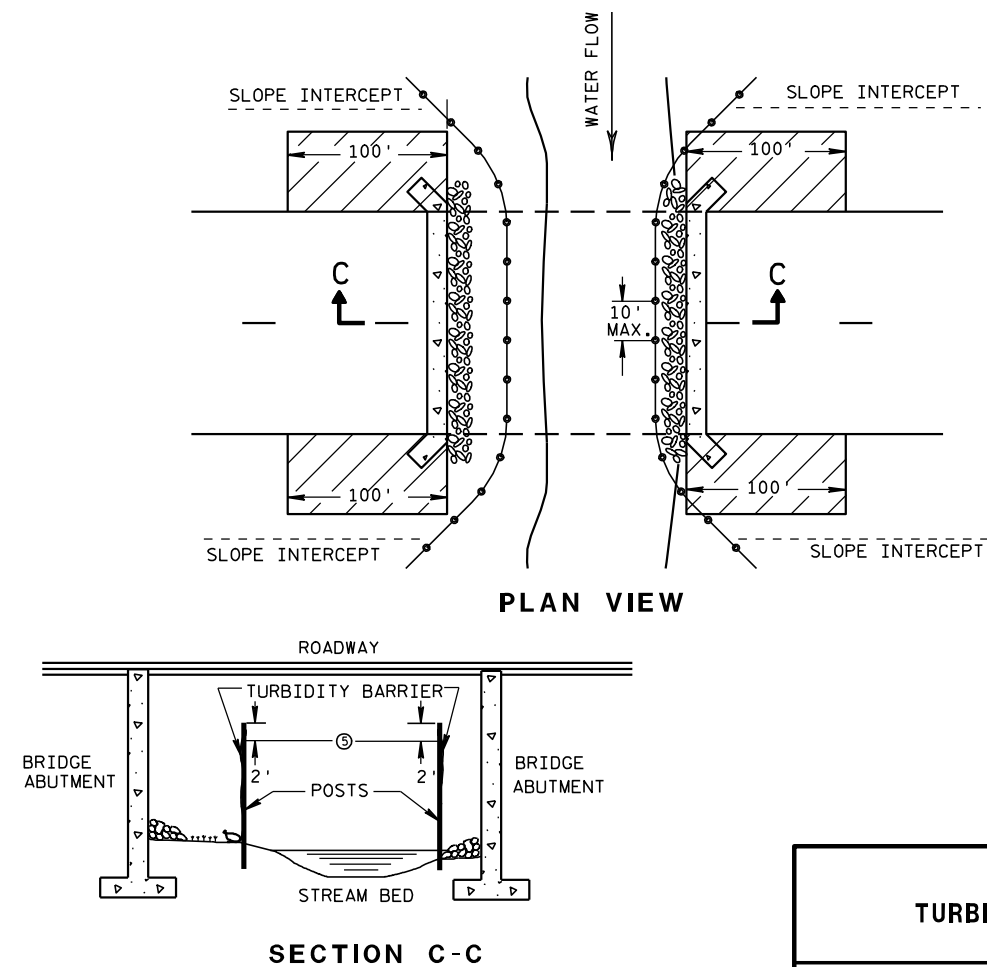


GENERAL NOTES

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- ② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- ③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- ④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- ⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- ⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- ⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- ⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

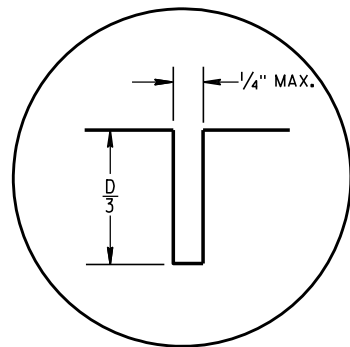
APPROVED

6/04/02
DATE

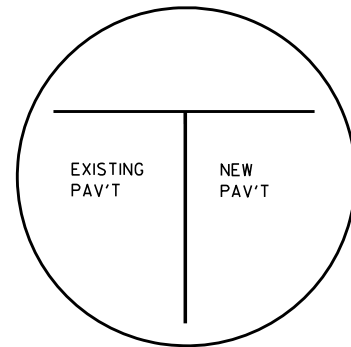
FWHA

/S/ Beth Conn
CHIEF ROADWAY DEVELOPER

34 INEER

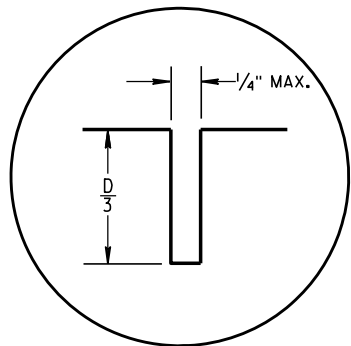


C1

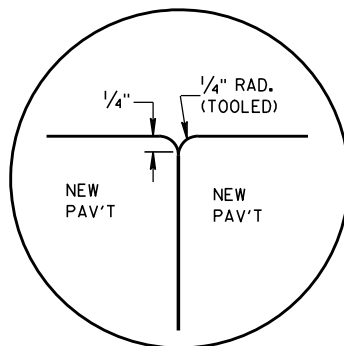


C2

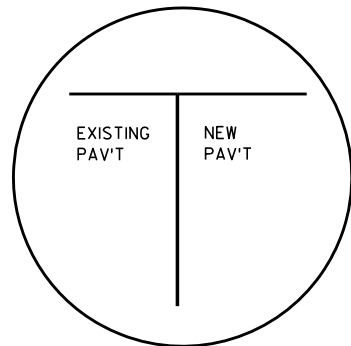
TRANSVERSE JOINTS



L1

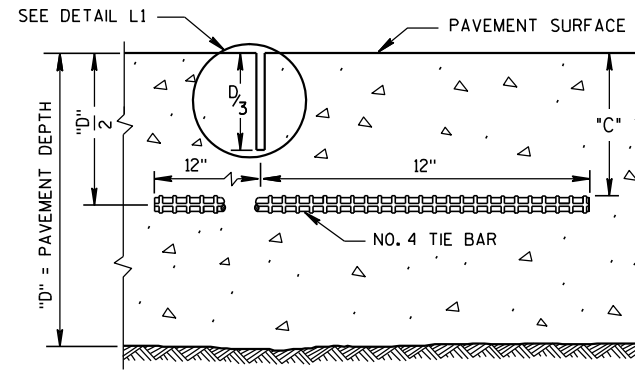


L2

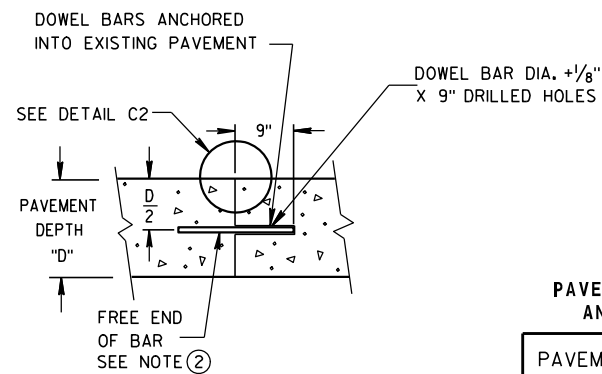


L3

LONGITUDINAL JOINTS



SECTION C-C
SAWED JOINT



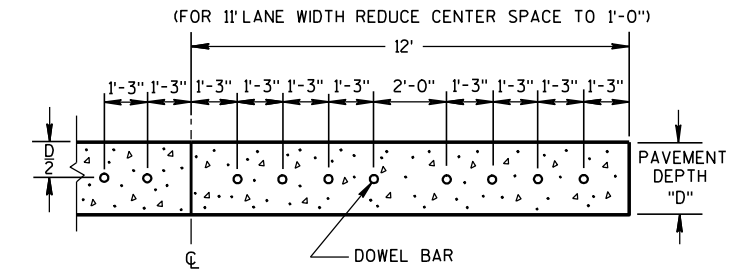
SECTION D-D

GENERAL NOTES

ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 24 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

- ① INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.
- ② APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



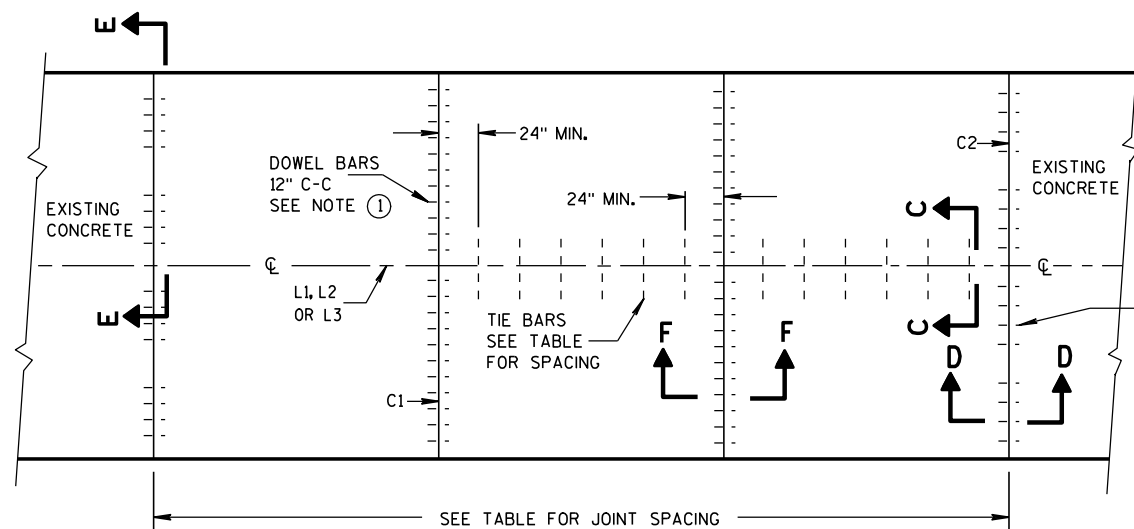
SECTION E-E
SPACING OF DOWEL BARS
ANCHORED INTO EXISTING PAVEMENT

PAVEMENT DEPTH, DOWEL BAR SIZE
AND JOINT SPACING TABLE

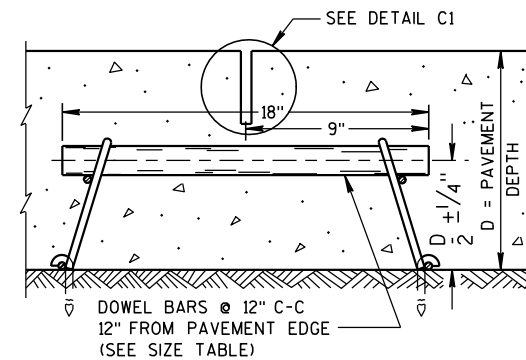
PAVEMENT DEPTH "D"	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6, 6 1/2"	NONE	12'
7, 7 1/2"	1"	14'
8, 8 1/2"	1 1/4"	15'
9, 9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

TIE BAR LOCATION TABLE

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING C-C	
		PAVEMENT WIDTH 24' OR 26'	≥ 30'
6, 6 1/2"	3" ± 1/2"	48"	42"
7, 7 1/2"	3 1/4" ± 1"	45"	36"
8, 8 1/2"	3 3/4" ± 1"	39"	30"
9, 9 1/2"	4 1/4" ± 1"	33"	27"
10, 10 1/2"	4 3/4" ± 1"	30"	24"
11, 11 1/2"	5 1/4" ± 1"	27"	21"
12"	5 3/4" ± 1"	24"	21"



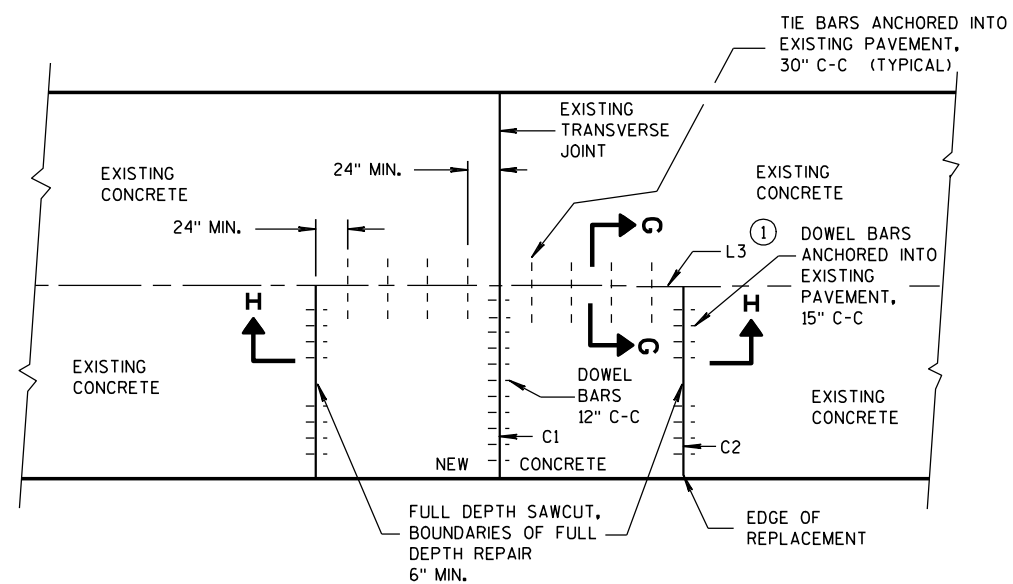
PLAN VIEW
CONCRETE BASE
CONTRACTION JOINT LOCATIONS



SECTION F-F
CONTRACTION JOINT

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

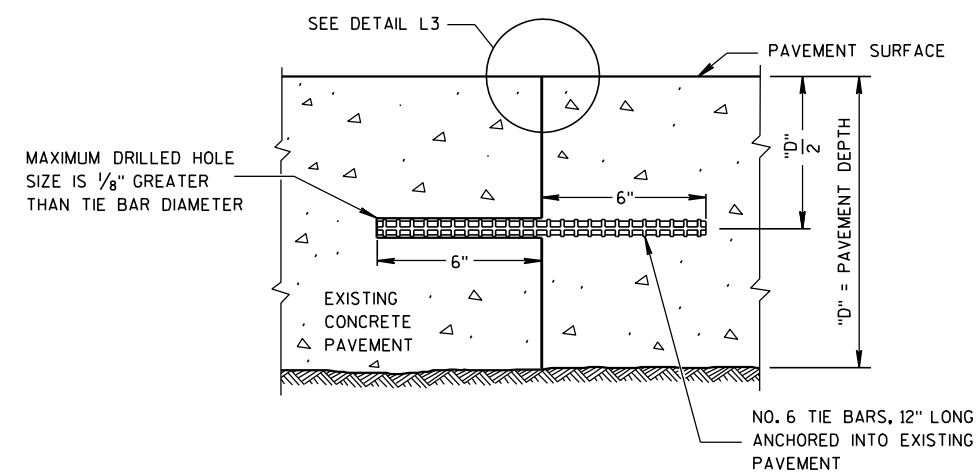


PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR

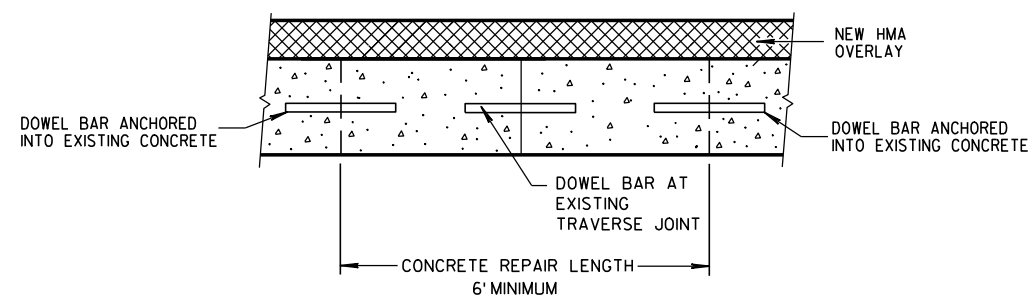
GENERAL NOTES

- ① USE AN ENGINEER-APPROVED BOND BREAKER AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.



SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H-H

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12-11-2009

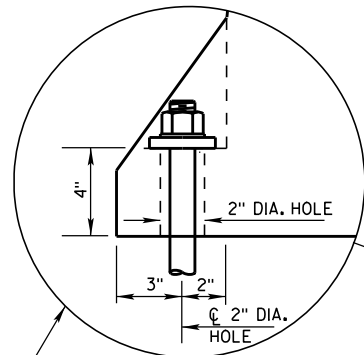
DATE

FHWA

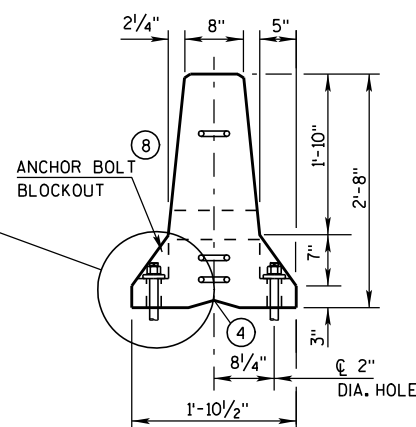
/S/ Deb Bischoff

PAVEMENT POLICY & D 36

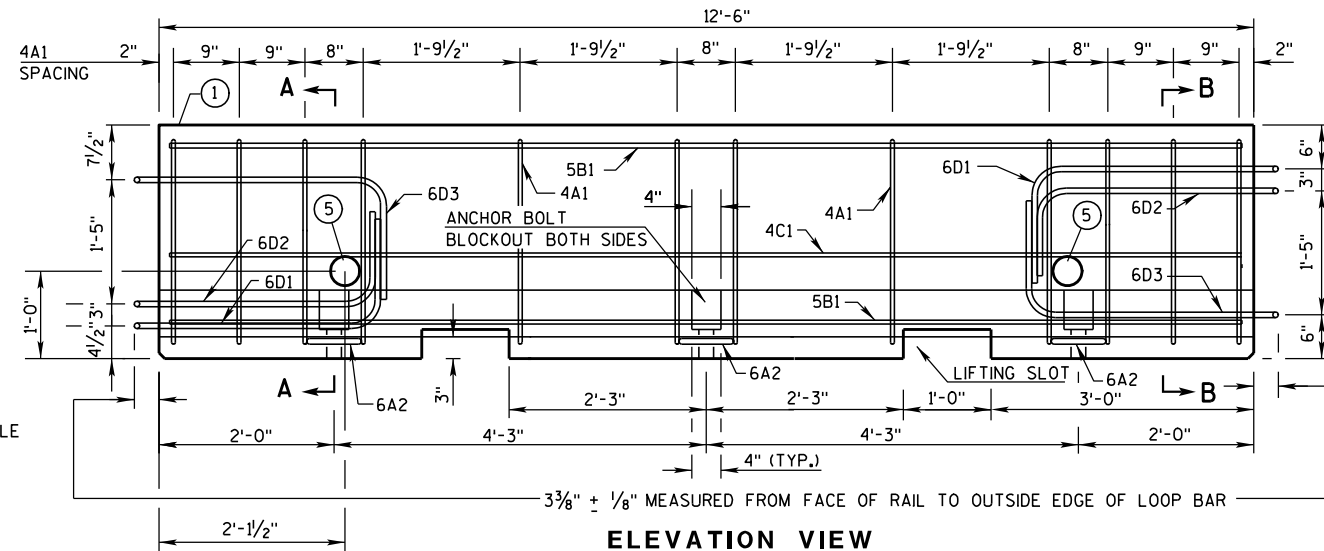
ENGINEER



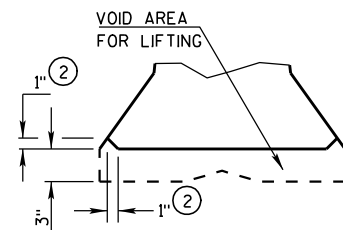
ANCHOR ON TRAFFIC SIDE
ONLY WHEN REQUIRED
(SEE SHEET D FOR ADDITIONAL
ANCHOR DETAIL)



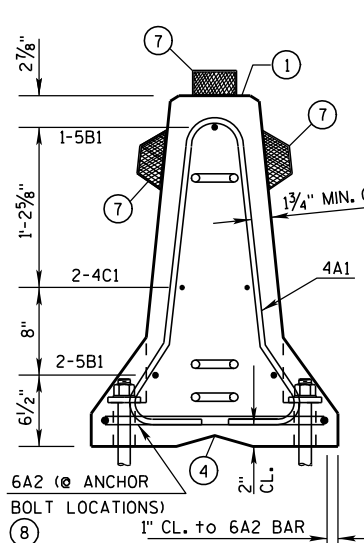
END VIEW



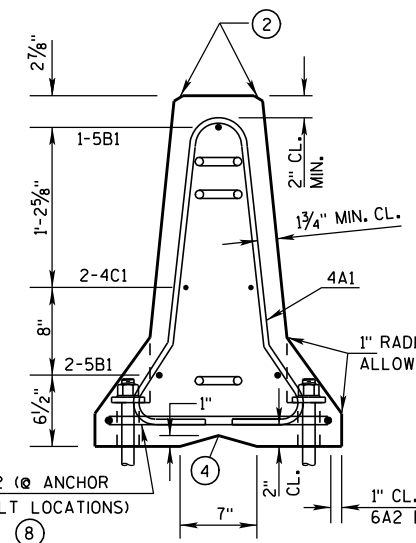
ELEVATION VIEW



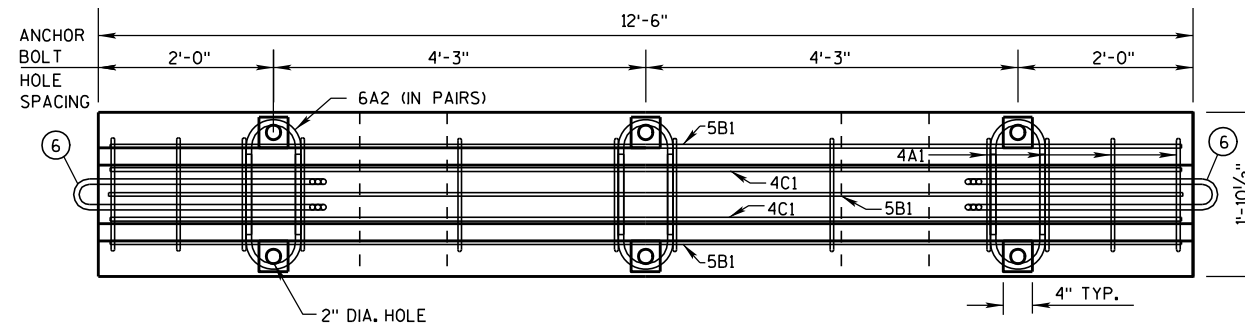
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

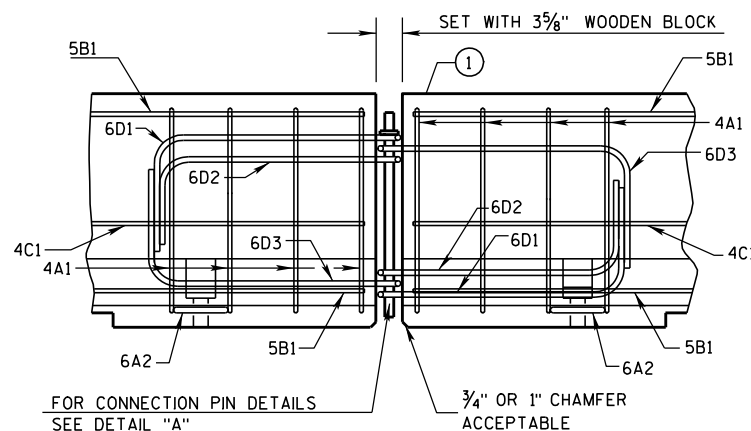


SECTION B-B
(STIRRUP PLACEMENT)

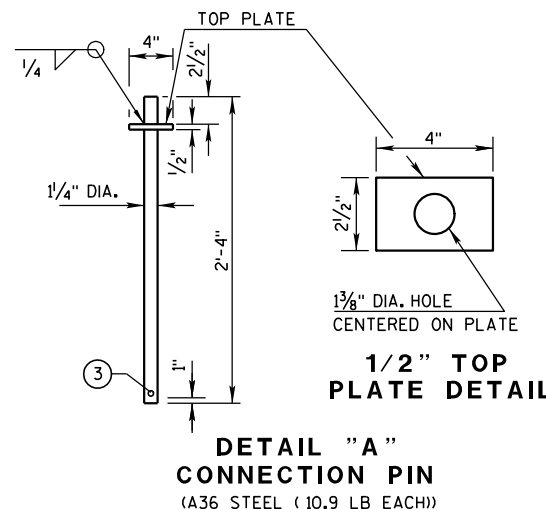


PLAN VIEW

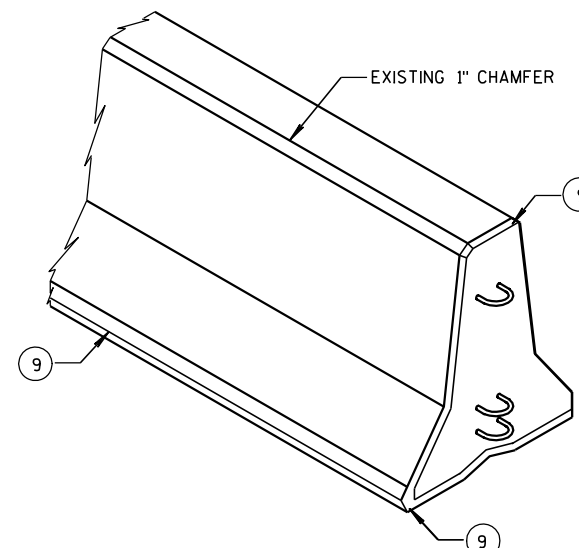
DETAILS OF BARRIER SECTION



DETAILS OF BARRIER CONNECTION



DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



1/2" TOP
PLATE DETAIL

GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-13(g) THRU 14B7-13(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE 3/4" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-1/2" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN 1/8" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

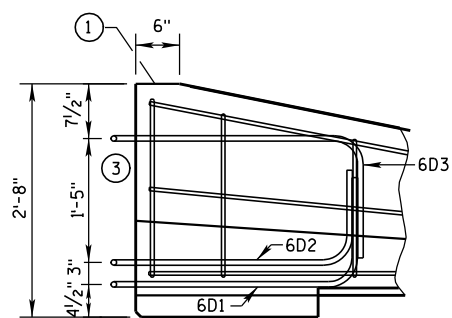
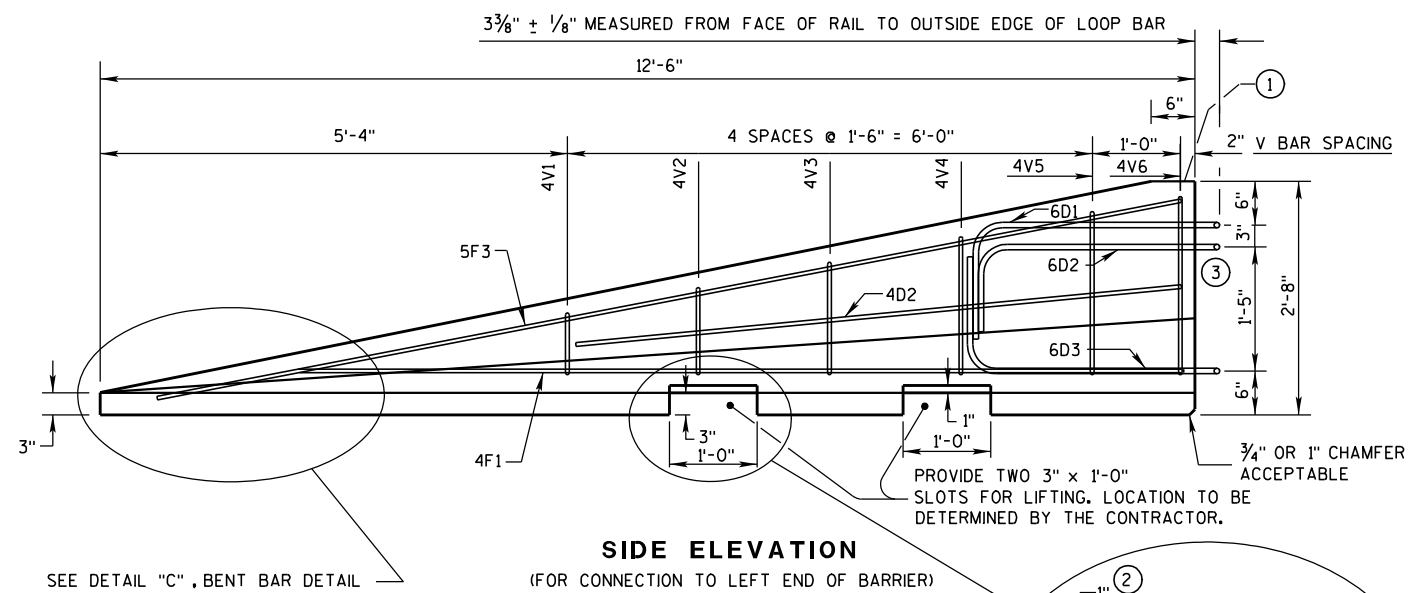
PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

- MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
 - TYPE: WICBTP
 - MANUFACTURER
 - DATE MANUFACTURED (MONTH AND YEAR)
- 1" CHAMFER TO PREVENT SPALLING.
- A 3/8" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..
- "V" NOTCH IS OPTIONAL.
- THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).
- NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.
- USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURER'S INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.
- SEE SHEET D FOR ANCHORING CRITERIA.
- 1" CHAMFER OPTIONAL.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

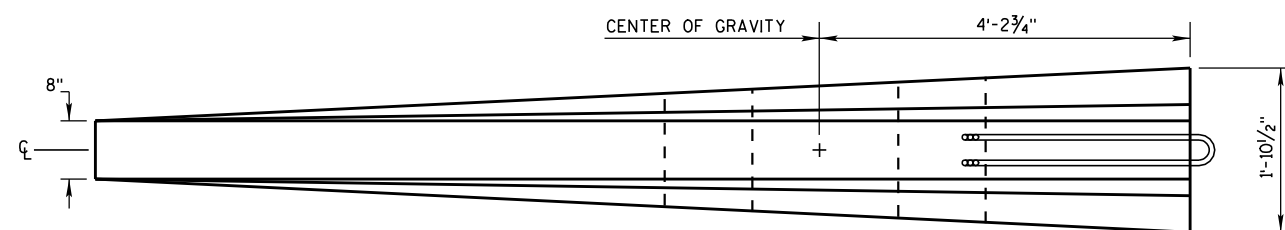
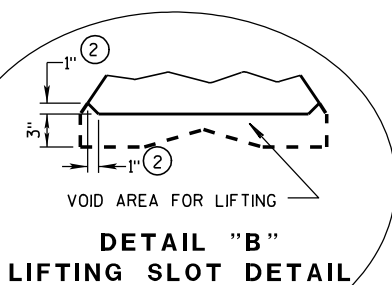


GENERAL NOTES

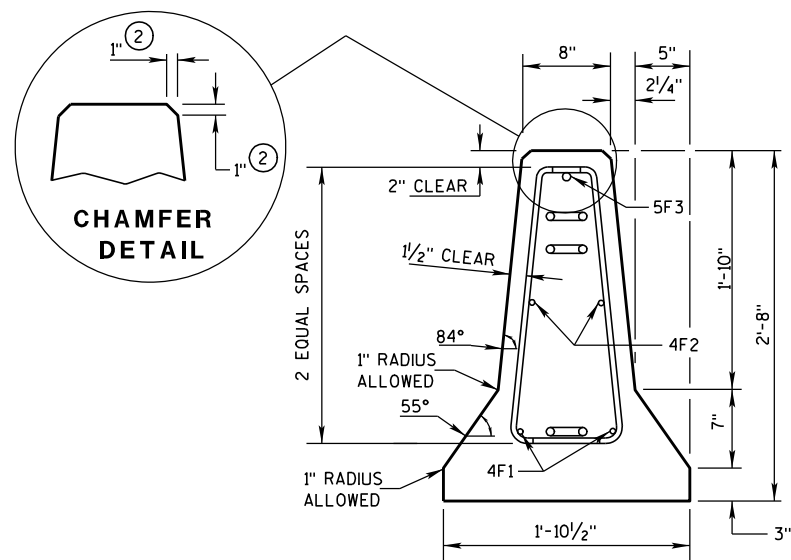
- ① MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
 - a. TYPE WICBTP
 - b. MANUFACTURER
 - c. DATE MANUFACTURED (MONTH AND YEAR)
- ② 1" CHAMFER TO PREVENT SPALLING.
- ③ NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

SIDE ELEVATION

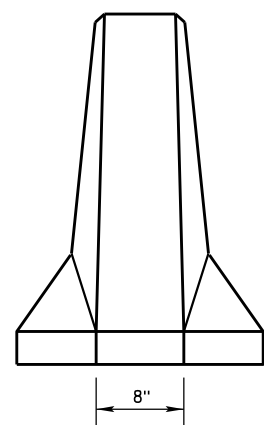
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)



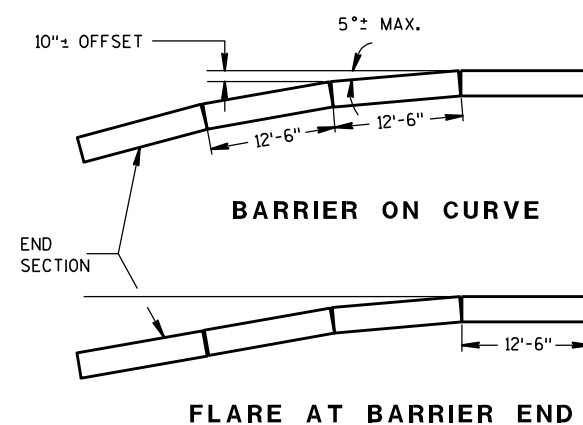
PLAN VIEW



END SECTION



FRONT ELEVATION



POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

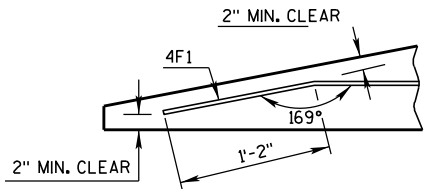
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

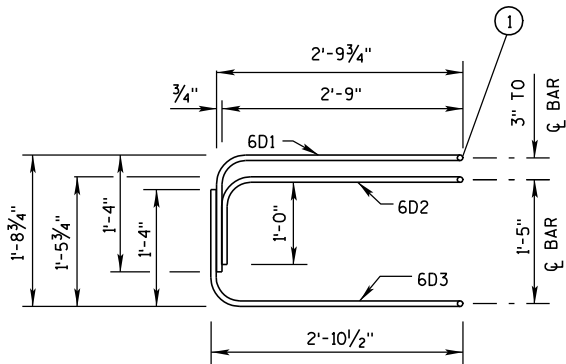
BARRIER TAPER SECTION
BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

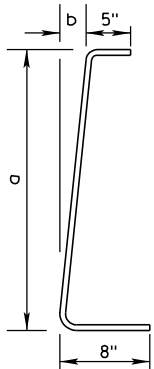
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



DETAIL "C"
BENT BAR DETAIL



ELEVATION
LOOP BAR ASSEMBLY



BAR	a	b
V1	10"	1"
V2	1'-1"	1 1/4"
V3	1'-5"	1 5/8"
V4	1'-8"	1 7/8"
V5	2'-0 1/2"	2 3/8"
V6	2'-3"	2 3/4"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

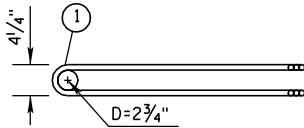
GENERAL NOTES

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

BARRIER SECTION
BILL OF MATERIALS

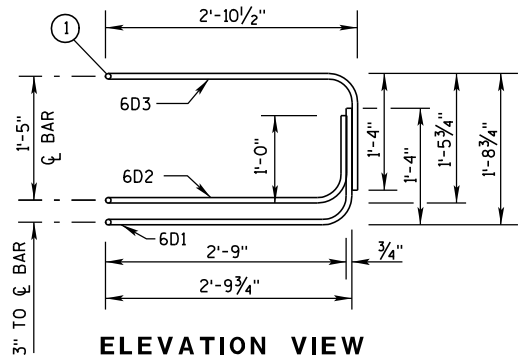
(PER 12'-6" BARRIER SECTION)

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

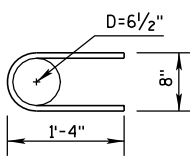


PLAN VIEW
LOOP BAR ASSEMBLY

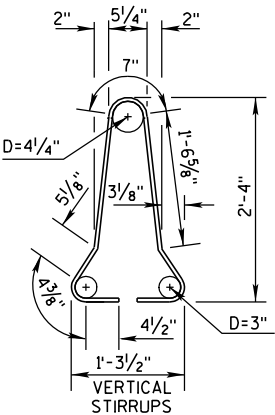
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2

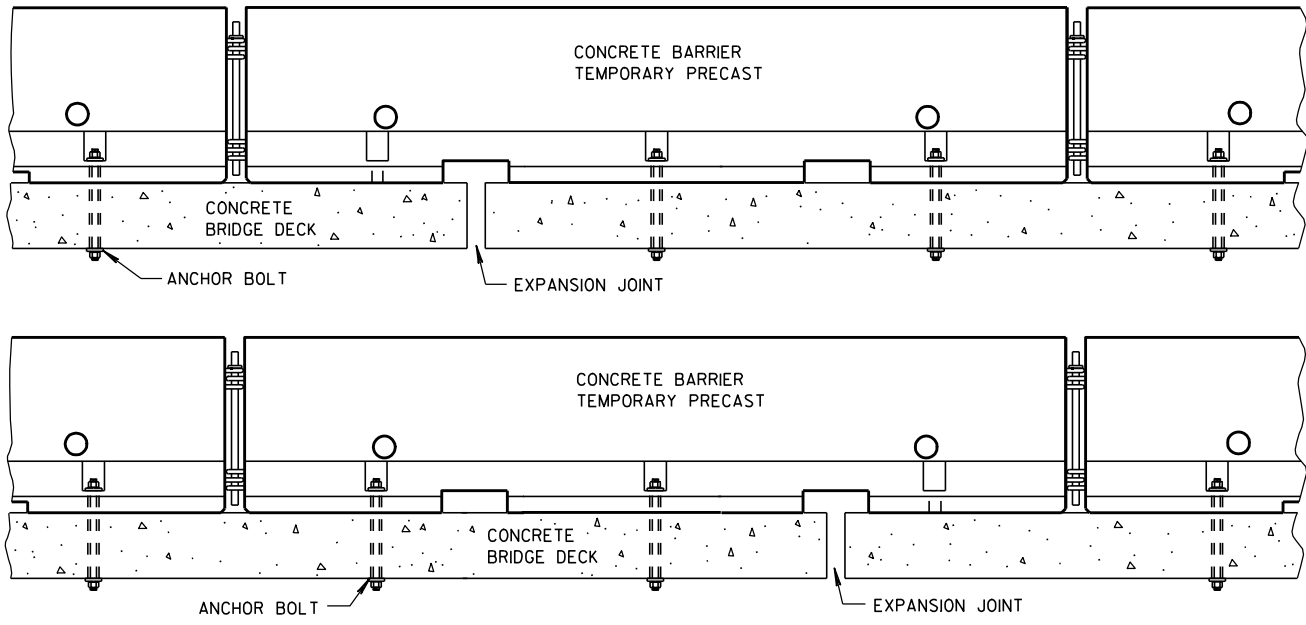


4A1

BARRIER SECTION

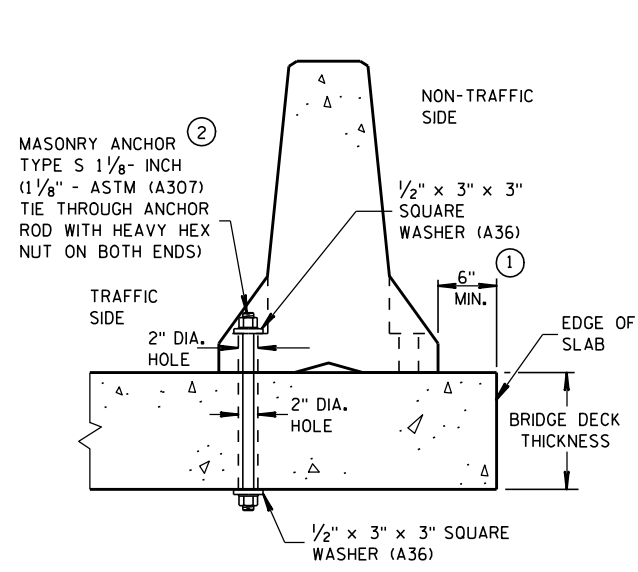
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



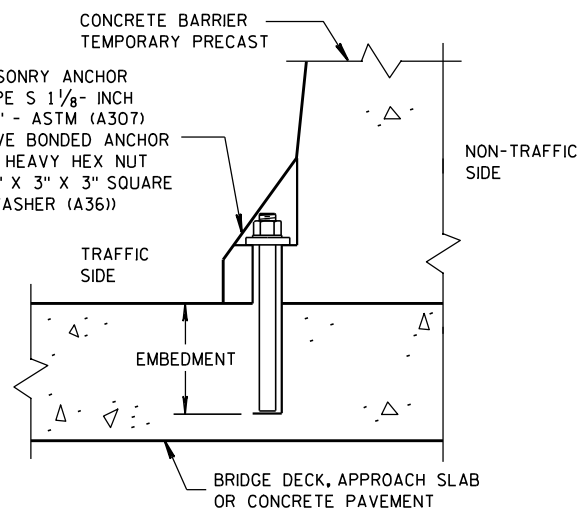
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



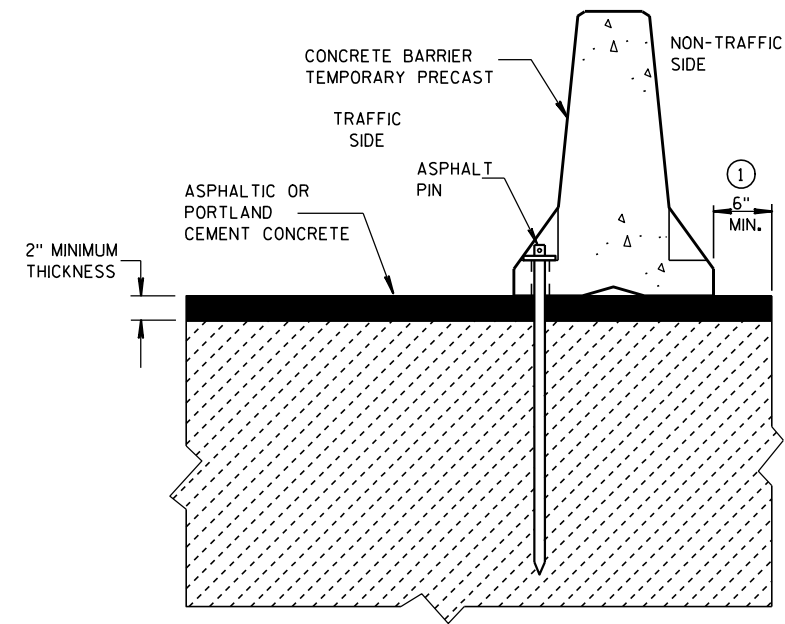
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



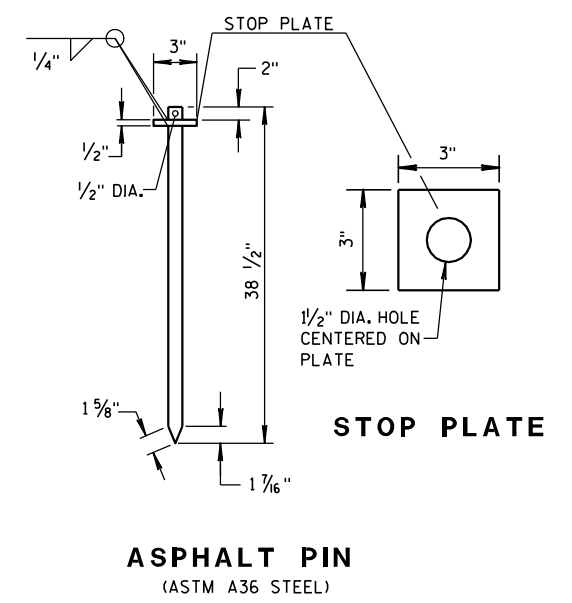
REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

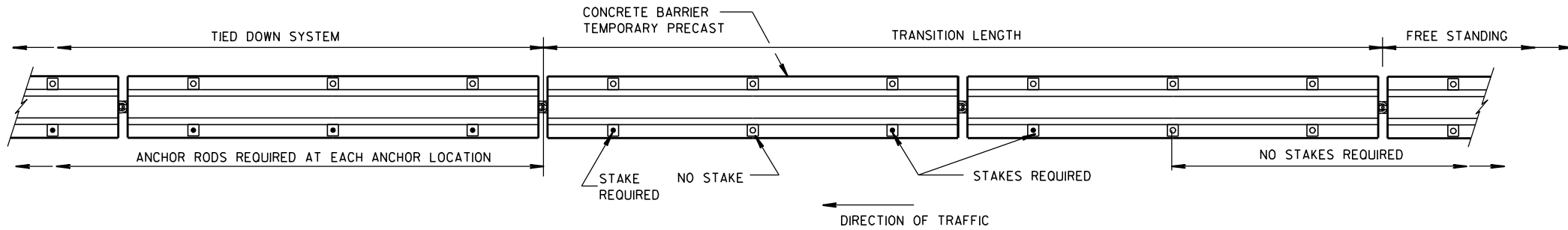


STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



ASPHALT PIN (ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

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

GENERAL NOTES

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

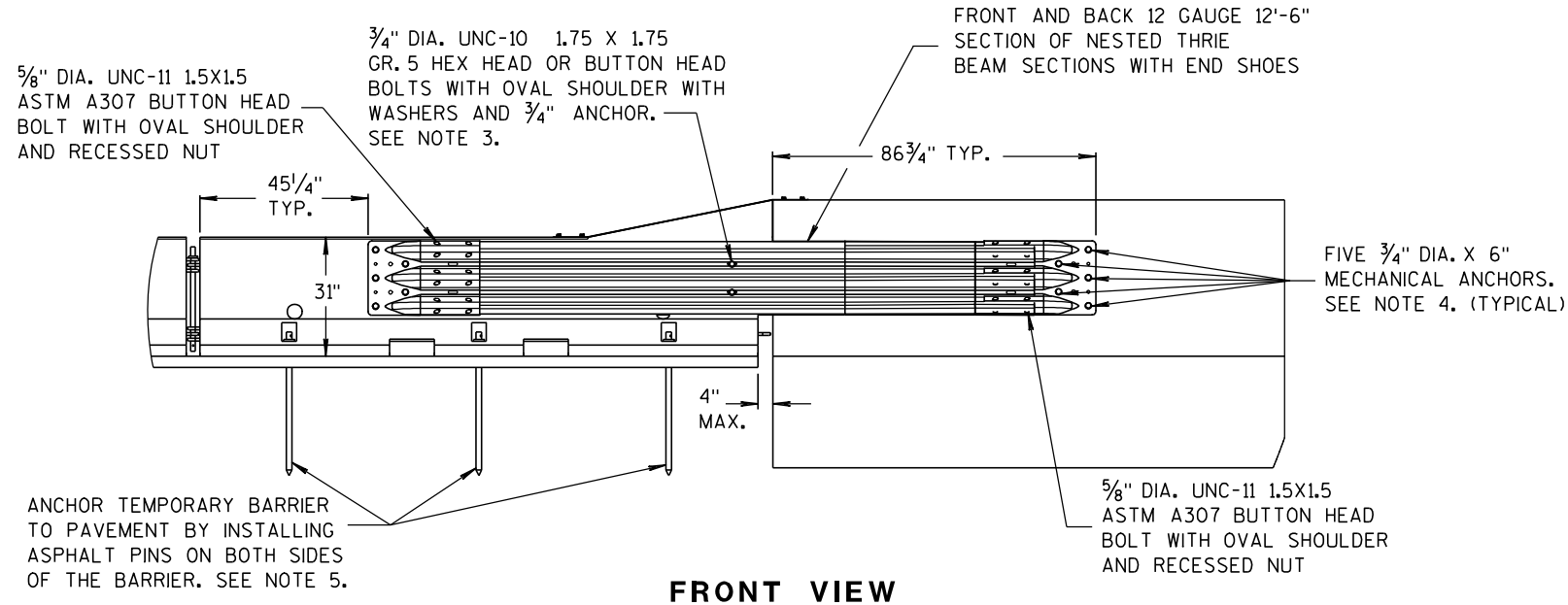
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.
- 2 ANCHORING IS INCIDENTAL TO CONCRETE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

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/8-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

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

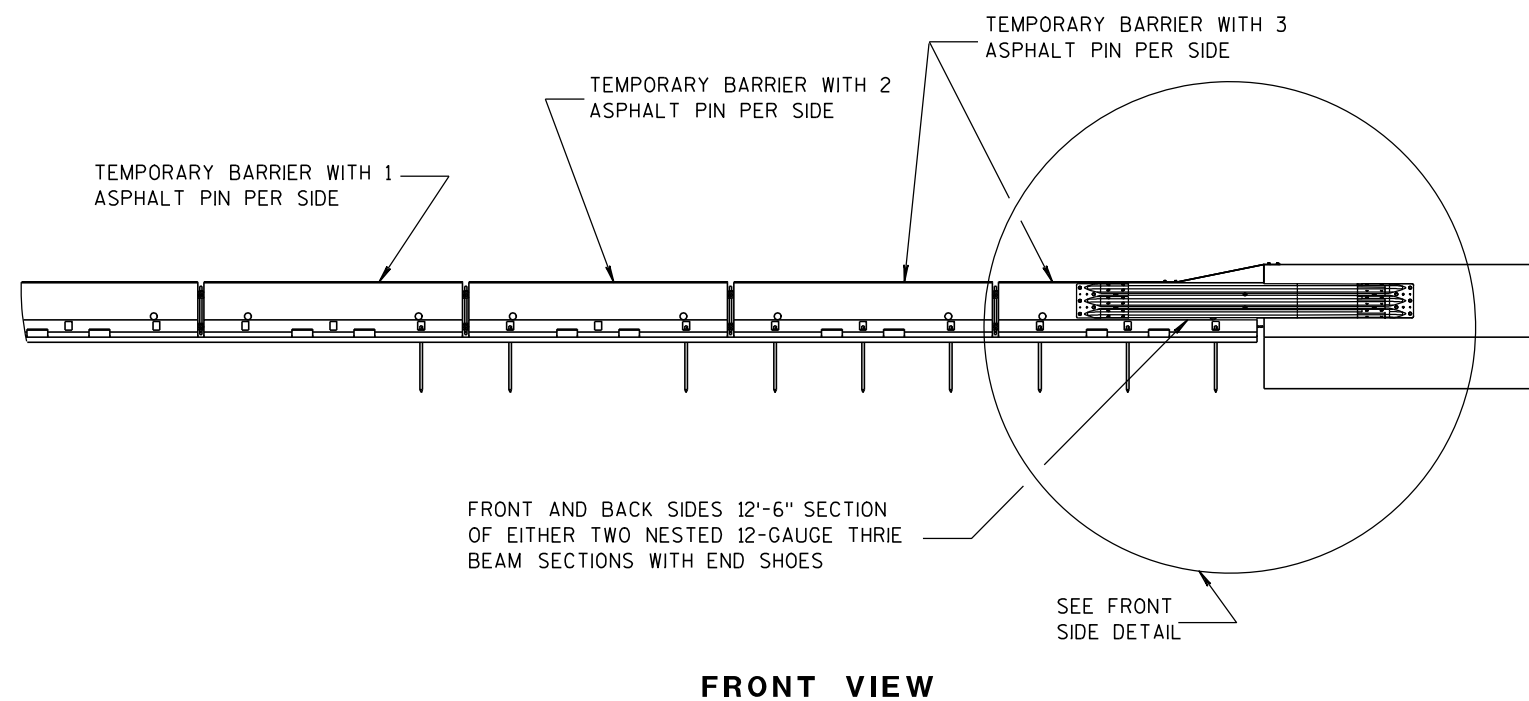
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

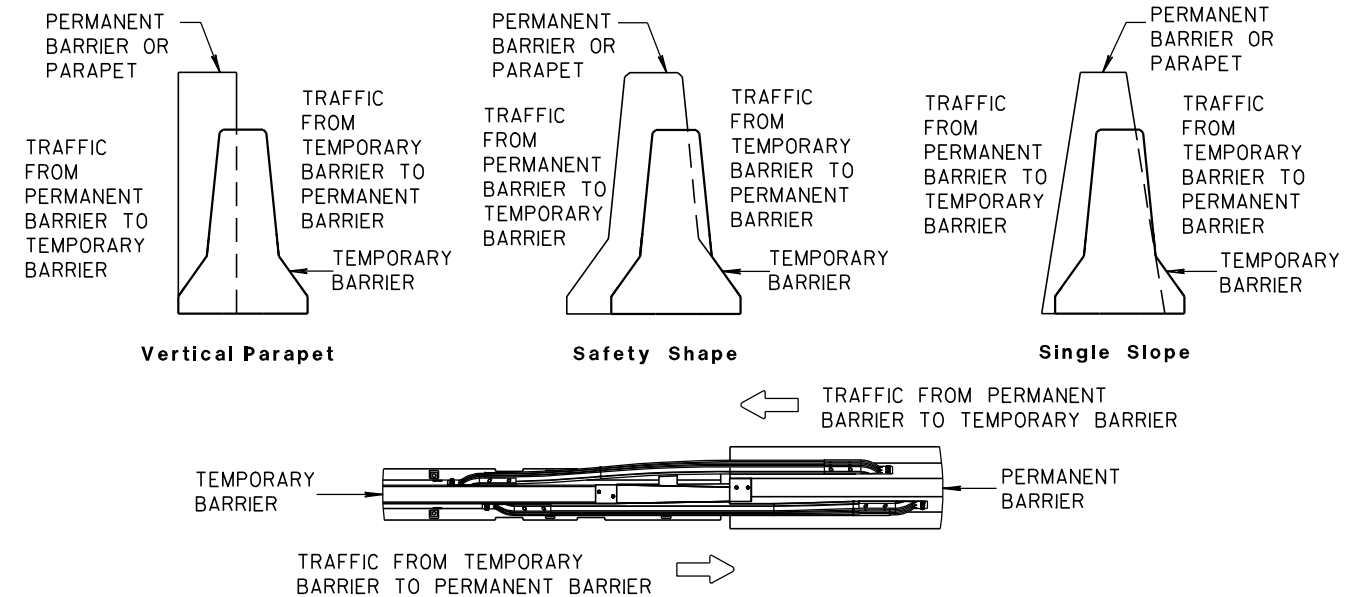


NOTES

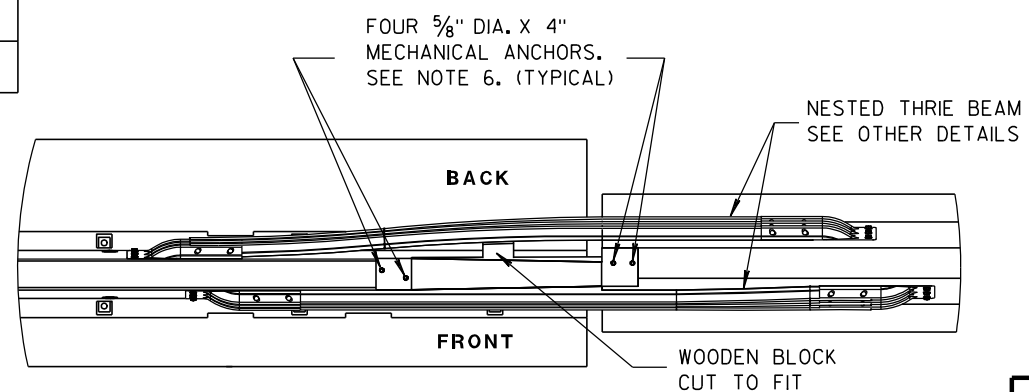
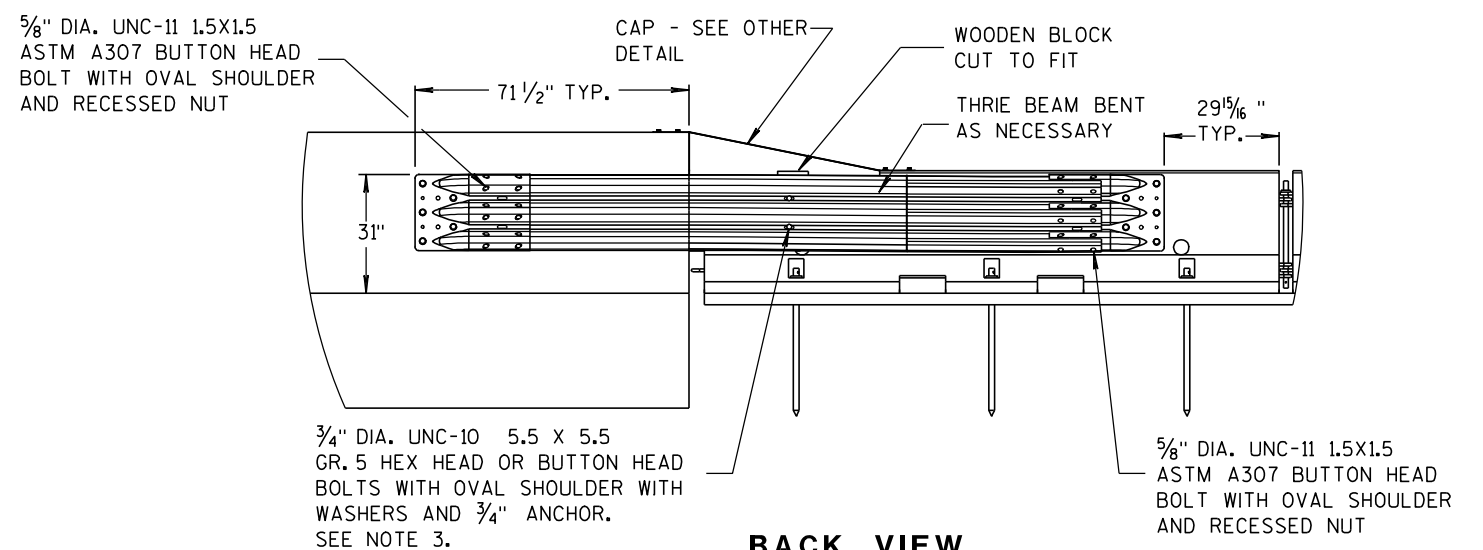
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

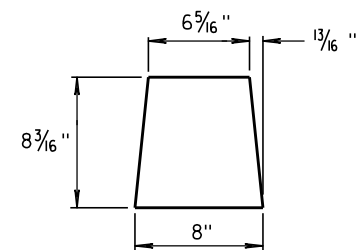


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

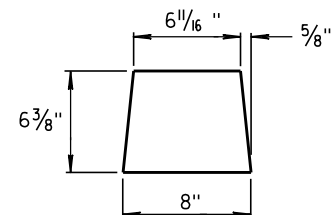


CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

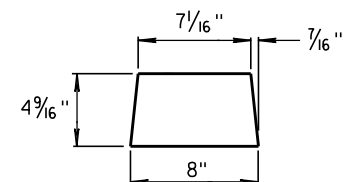
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



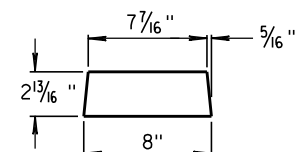
GUSSET 1



GUSSET 2

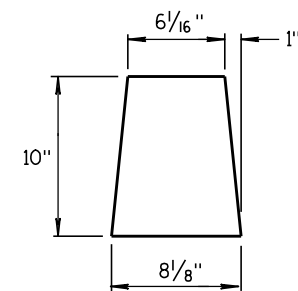


GUSSET 3

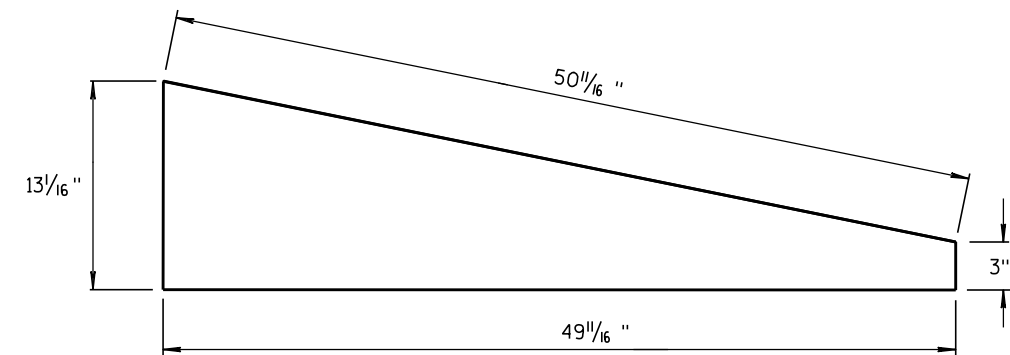


GUSSET 4

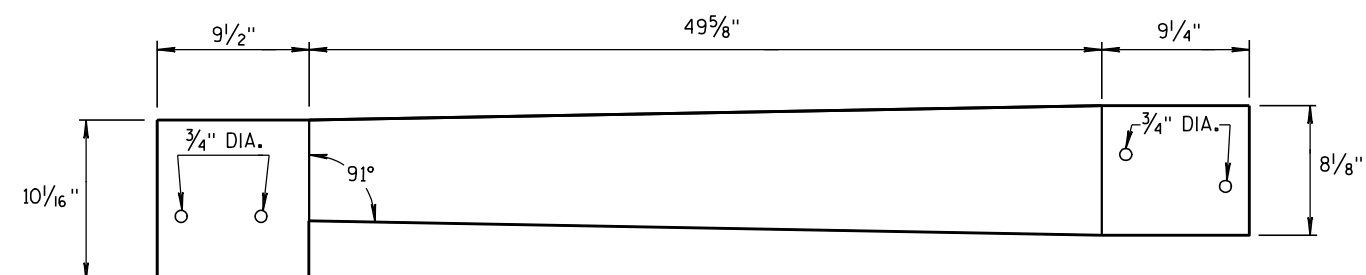
GUSSETS



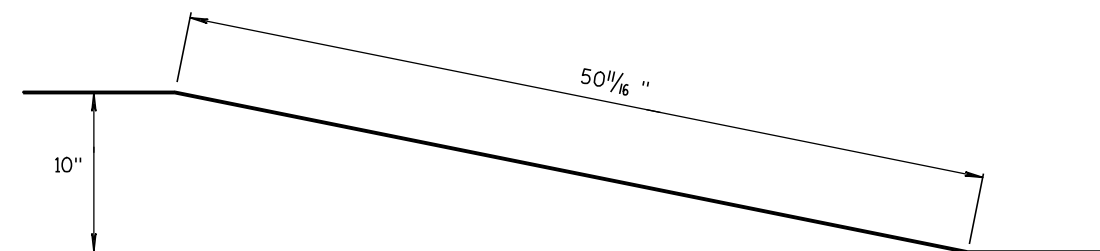
END PLATE



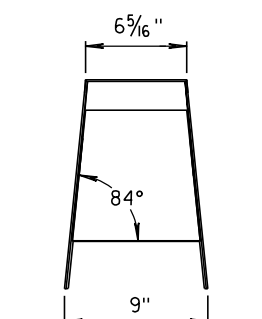
SIDE PLATE



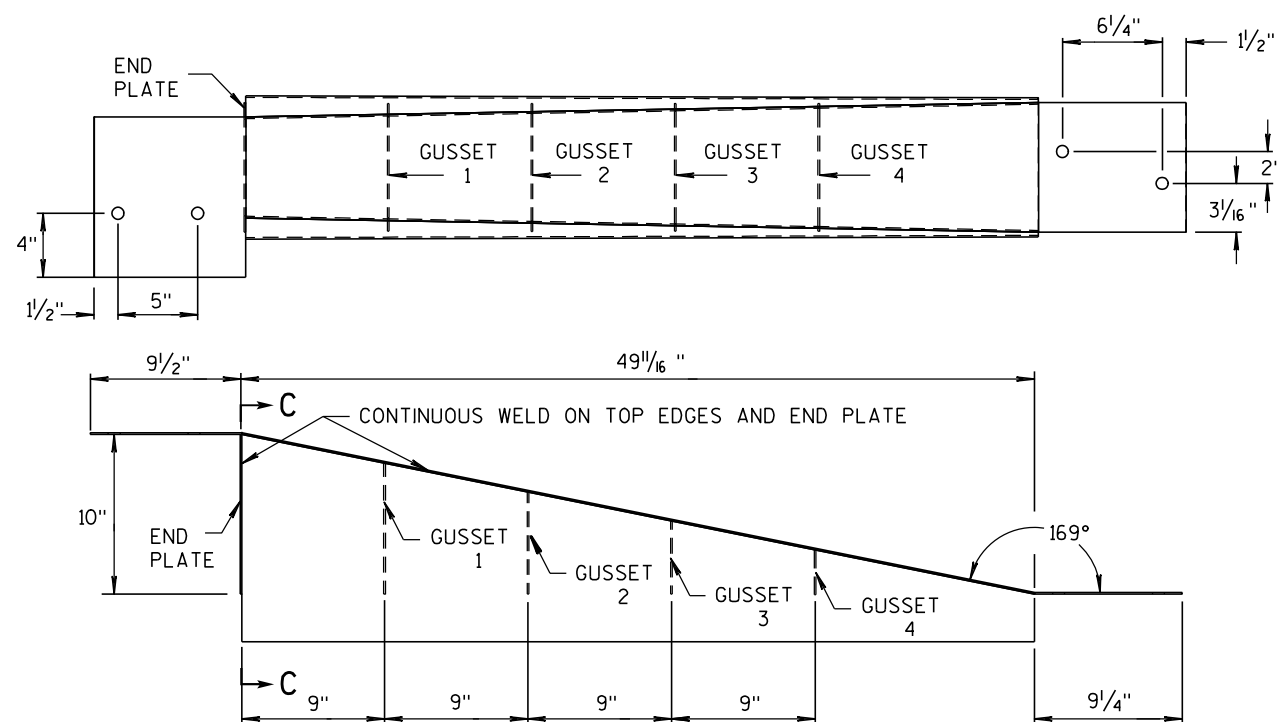
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP
FROM TEMPORARY CONCRETE BARRIER
TO 42" PERMANENT CONCRETE BARRIER

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



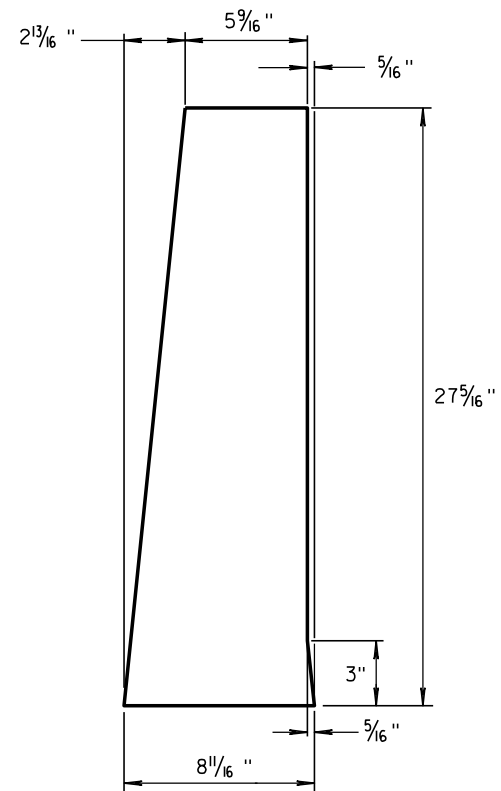
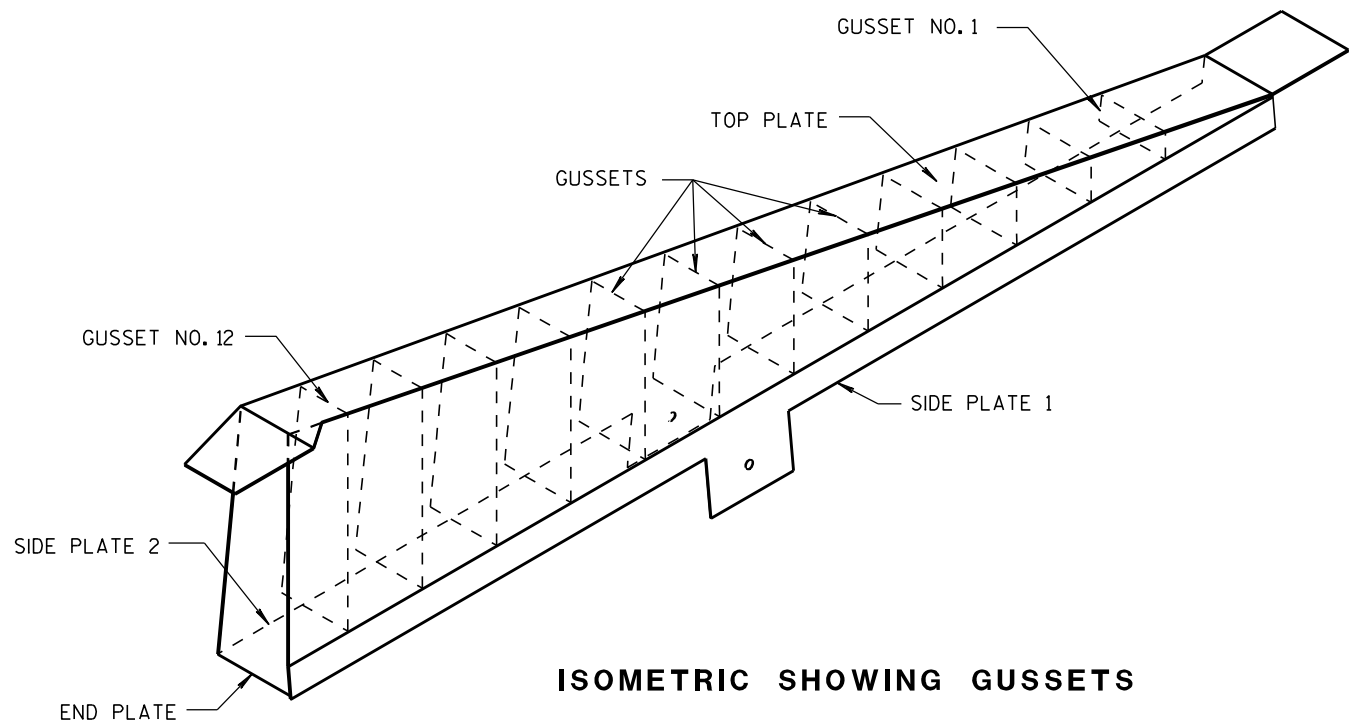
SECTION C-C



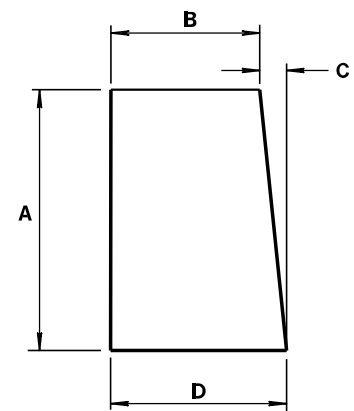
NOTES

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

CAP DETAILS FOR TEMPORARY CONCRETE
BARRIER TO 42" PERMANENT CONCRETE BARRIERCONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



1/8" STEEL PLATE

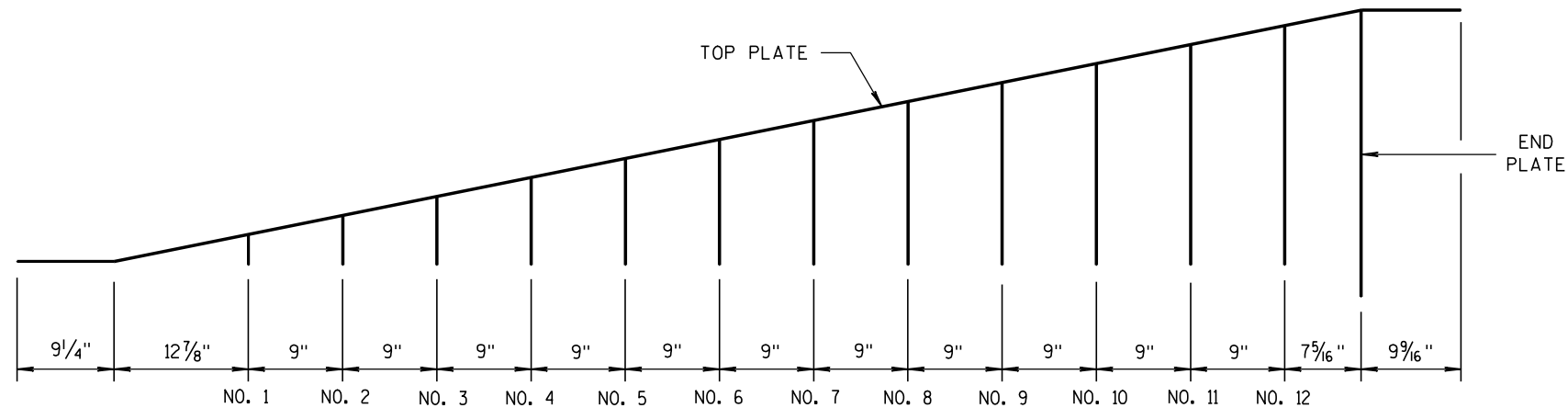


ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8 "	7"	1 1/16 "	8 1/16 "
6	11 5/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

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

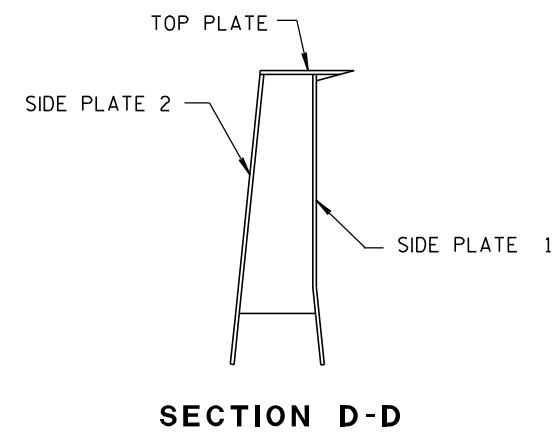
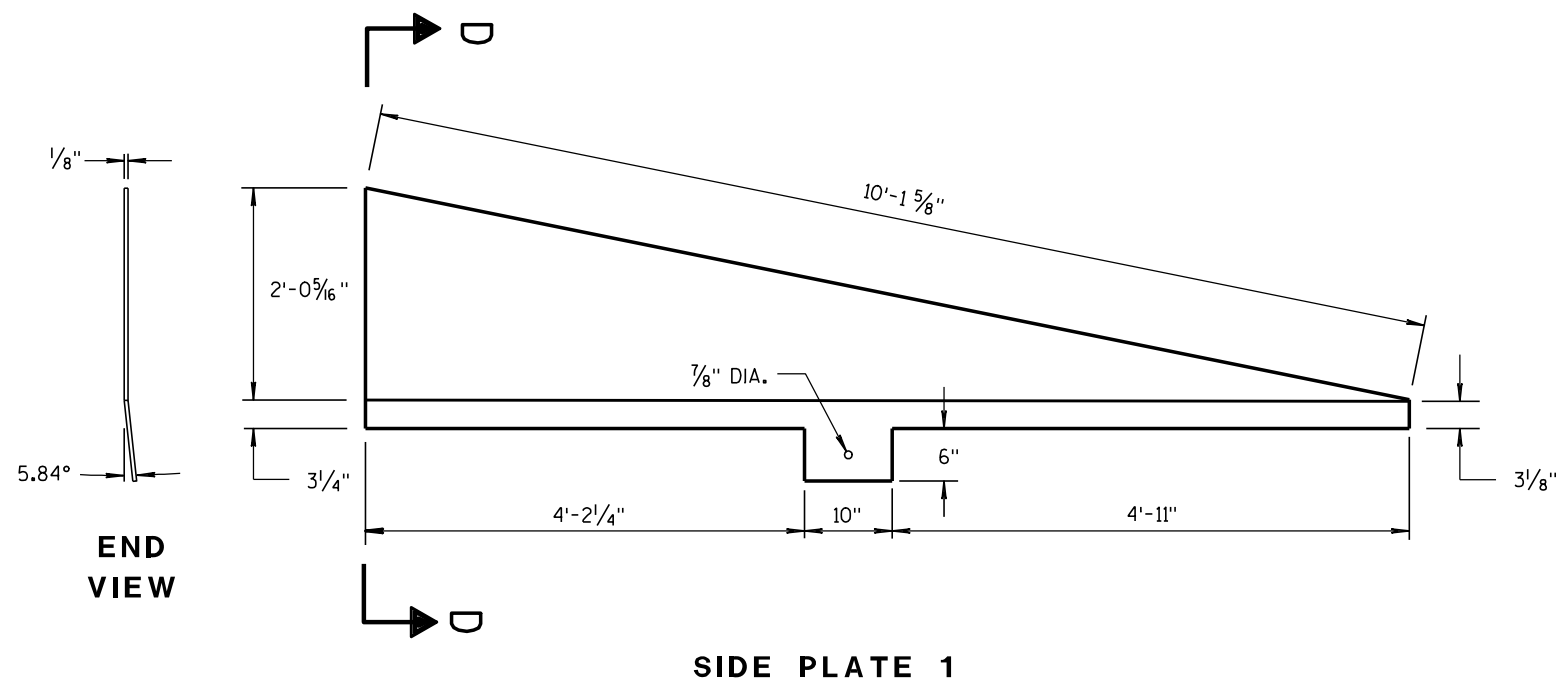
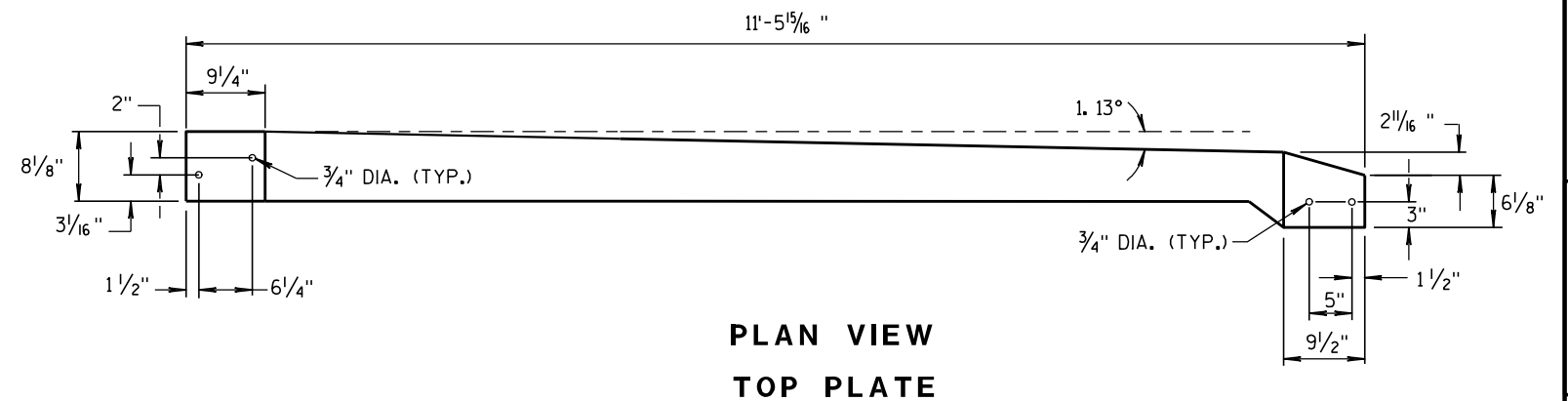
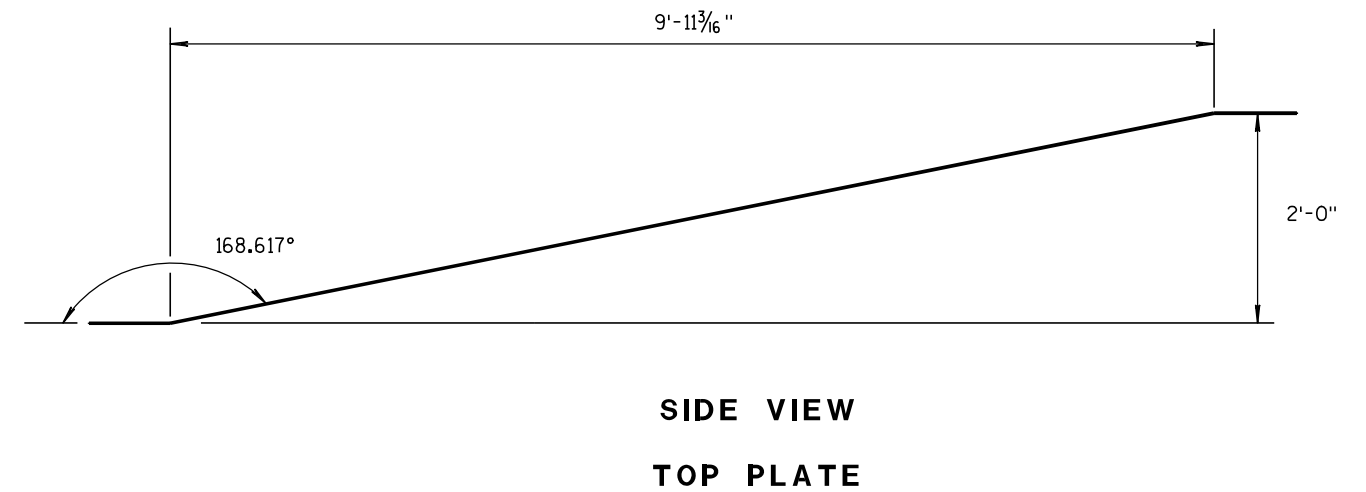
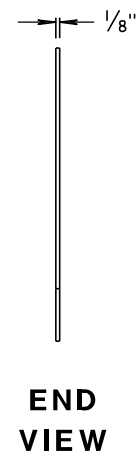
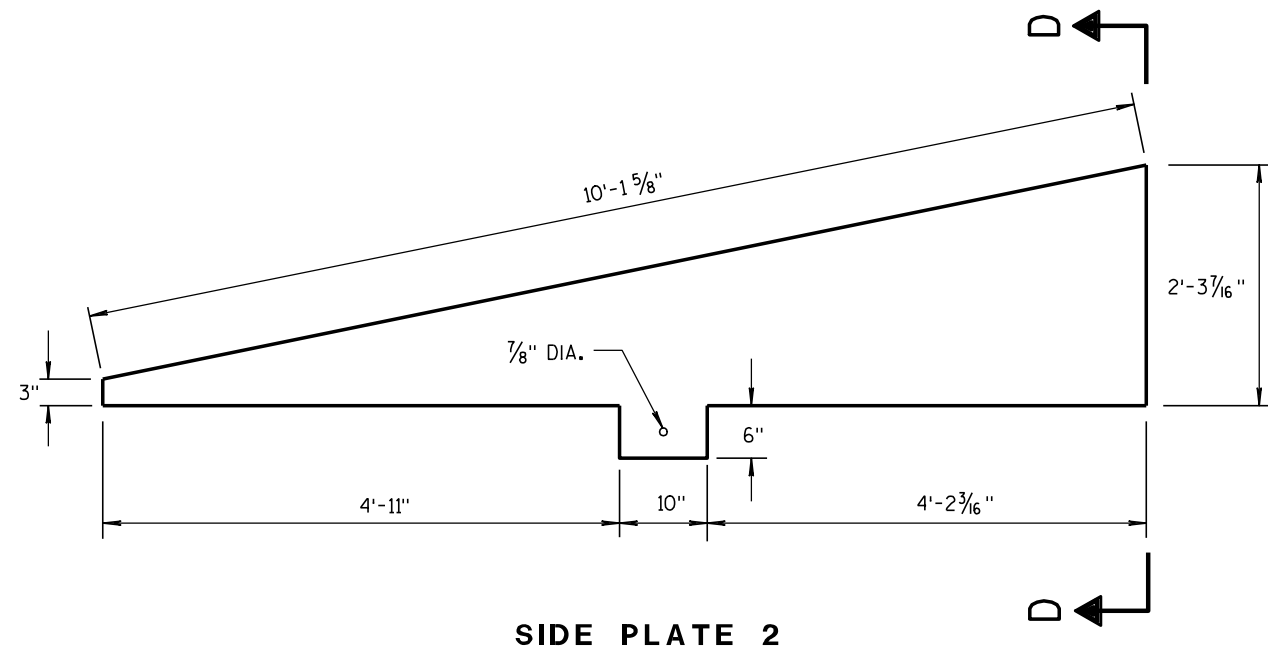
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



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

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

**CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

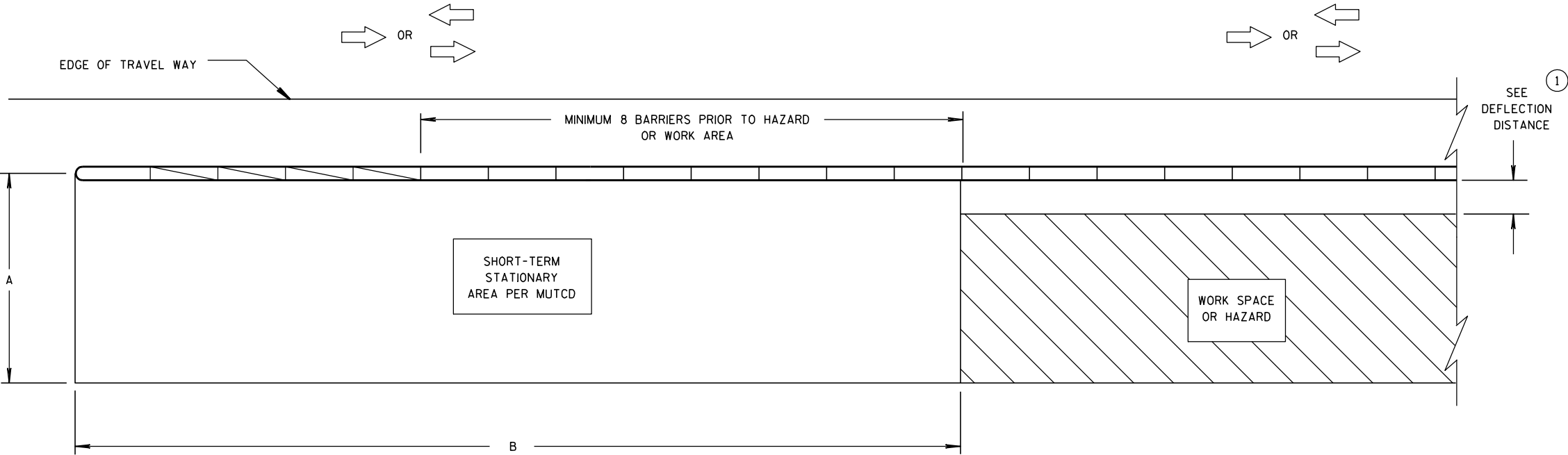
APPROVED

8/31/2012
DATE

FHWA

/S/ Jerry H. 7-
ROADWAY STANDARD 44
ENGINEER

ENT



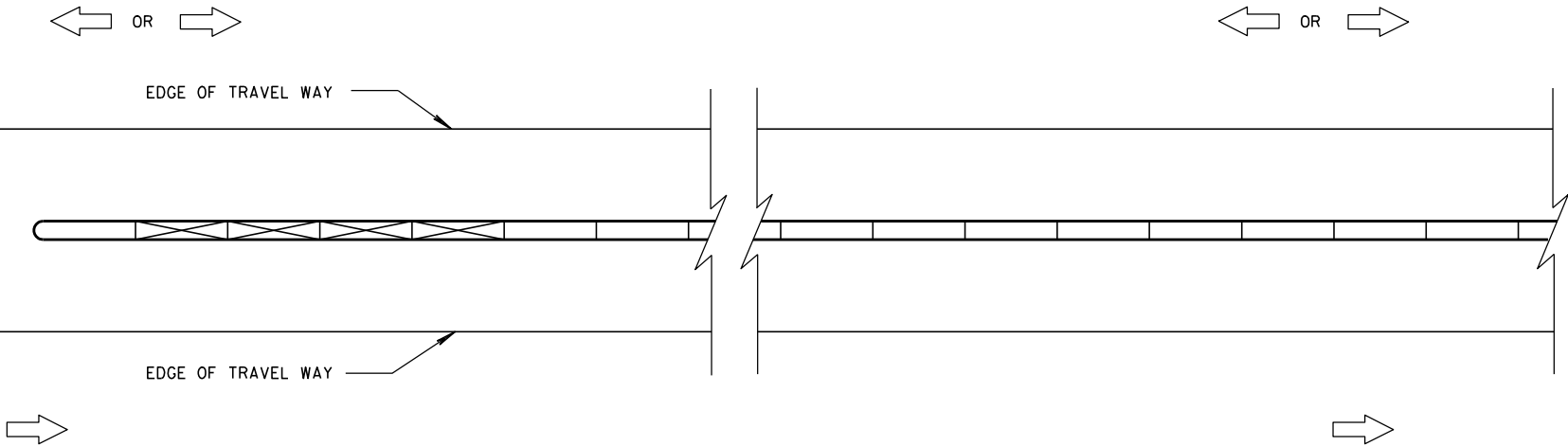
**CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER
INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER**

DIMENSION A TABLE ②

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE ②

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



**CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER
INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER**

LEGEND

DIRECTION OF TRAVEL	
CRASH CUSHION OR SAND BARREL ARRAY	
SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS	
SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS	
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER	
PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET	
FREE STANDING TEMPORARY BARRIER	

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

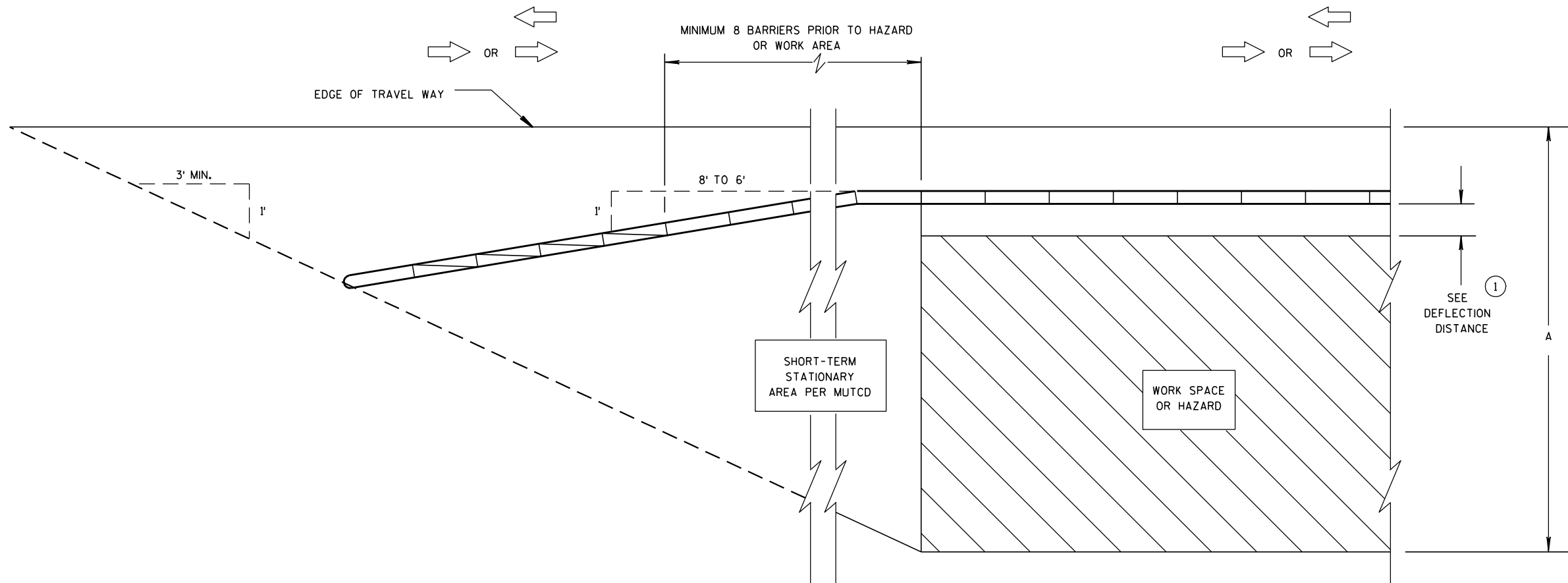
FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

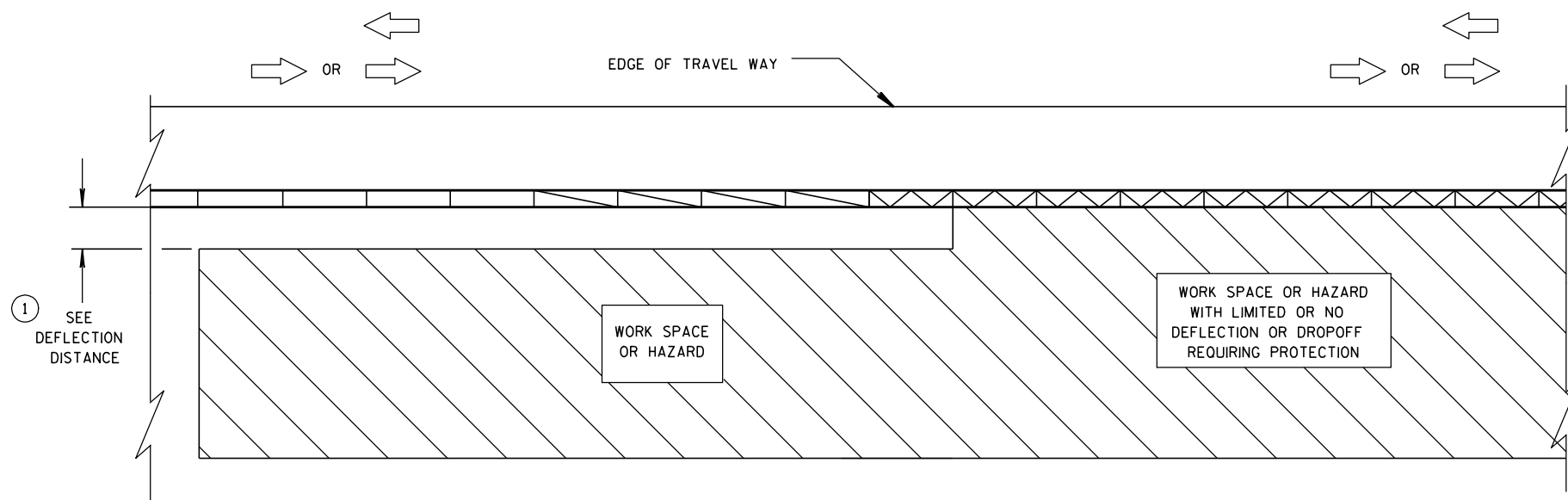
- ① FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- ② VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

**CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER
INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION**



**TRANSITION FROM FREE STANDING TEMPORARY BARRIER
TO ANCHORED BARRIER**

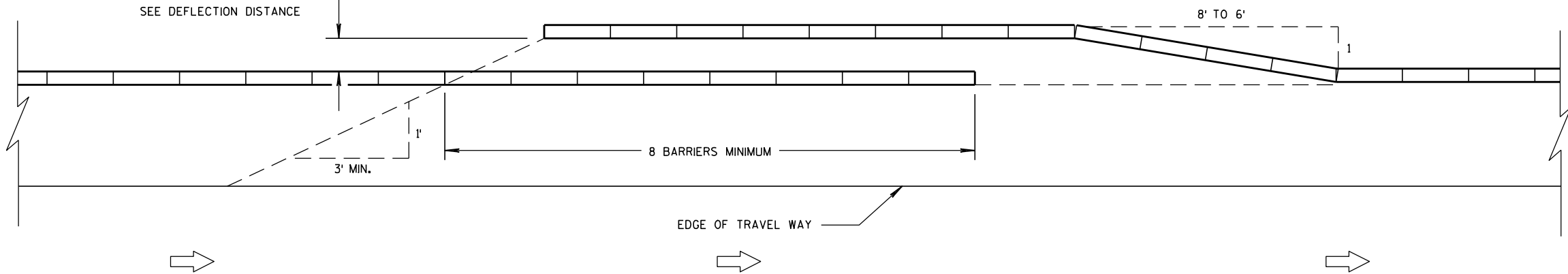
LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

**CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS**

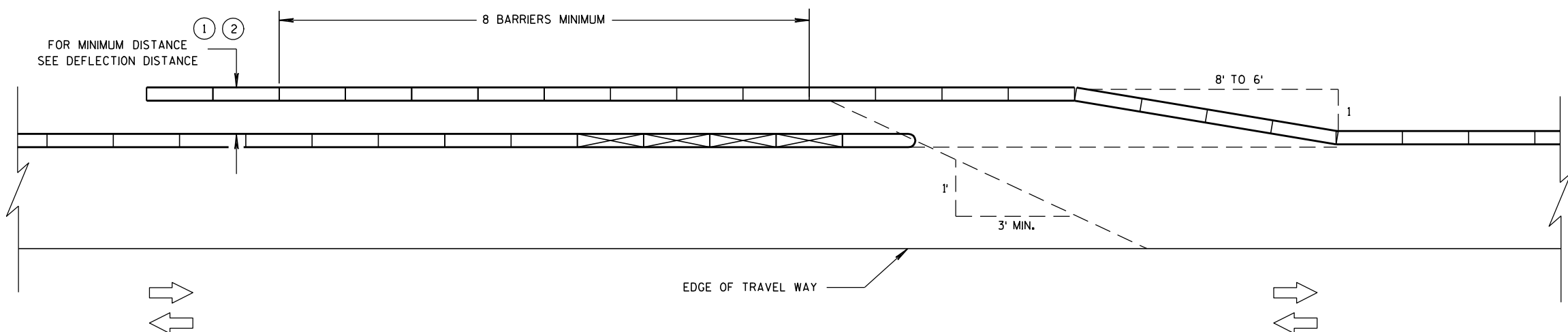
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FOR MINIMUM DISTANCE
SEE DEFLECTION DISTANCE

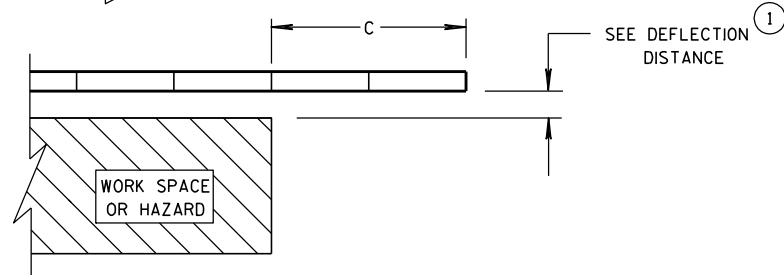


TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC

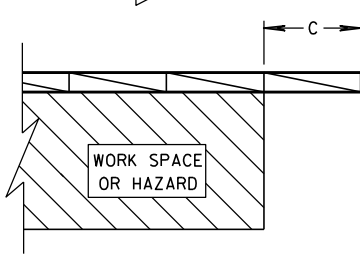
FOR MINIMUM DISTANCE
SEE DEFLECTION DISTANCE



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



**ENDING TEMPORARY BARRIER
DOWNSTREAM - UNANCHORED**



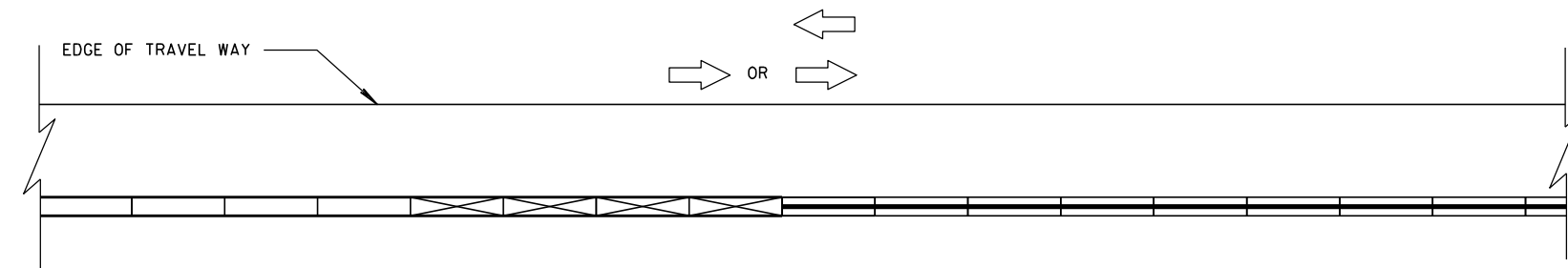
**ENDING TEMPORARY BARRIER
DOWNSTREAM - ANCHORED**

LEGEND

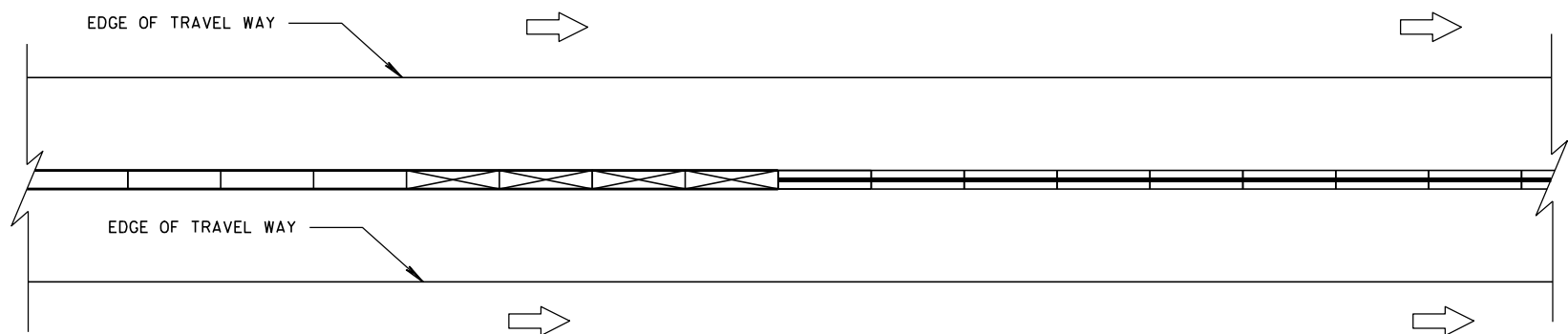
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

**CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



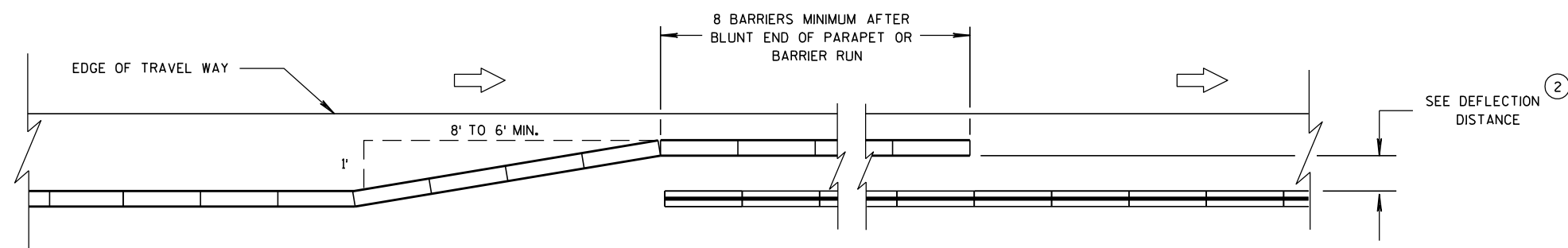
**CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE**



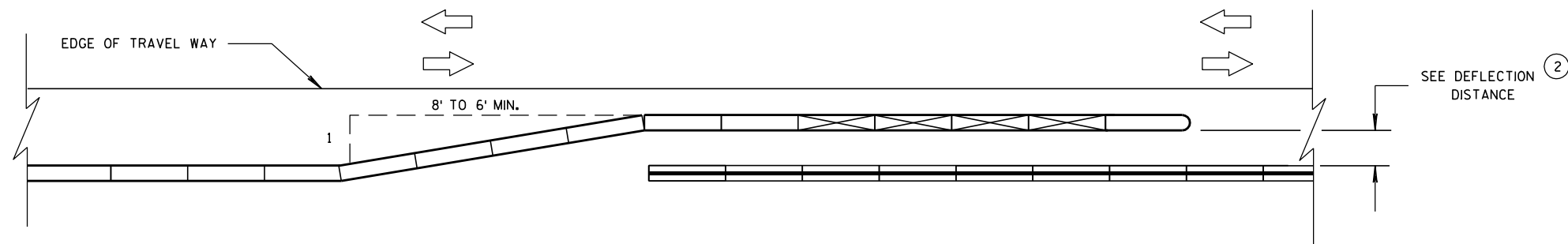
**CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES**

LEGEND

DIRECTION OF TRAVEL	
CRASH CUSHION OR SAND BARREL ARRAY	
SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS	
SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS	
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER	
PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET	
FREE STANDING TEMPORARY BARRIER	



**OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC**

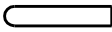
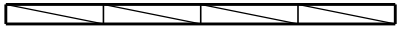
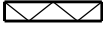
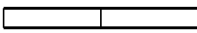


**OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC**

**CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

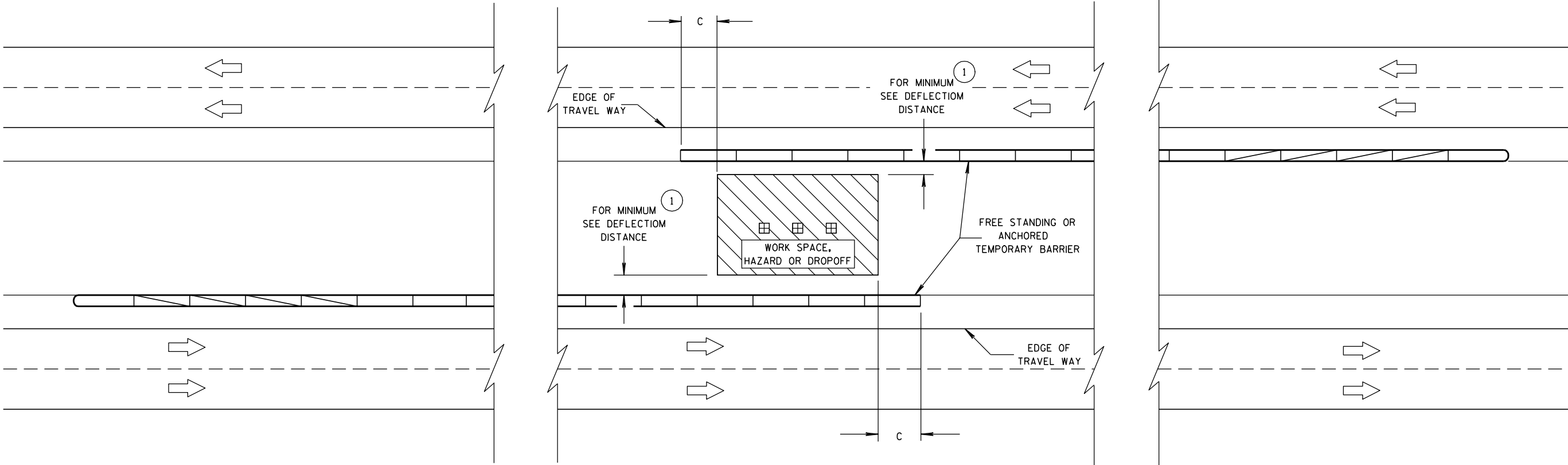
DIRECTION OF TRAVEL	
CRASH CUSHION OR SAND BARREL ARRAY	
SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS	
SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS	
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER	
PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET	
FREE STANDING TEMPORARY BARRIER	

DIMENSION C TABLE

2

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100

6



6

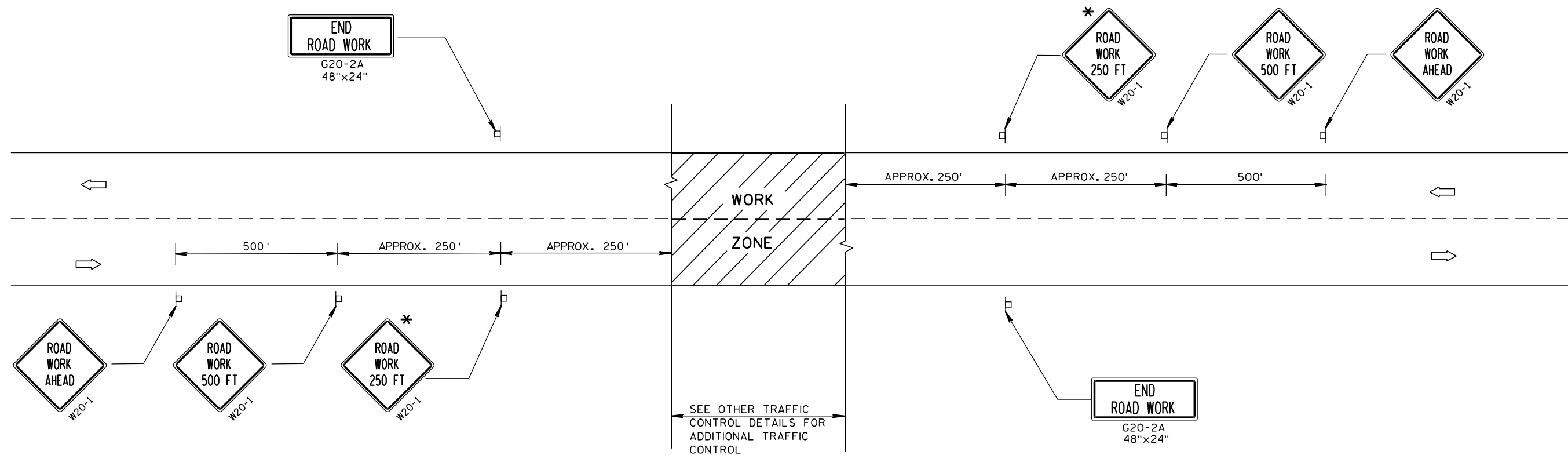
**CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS 49
FHWA ENGINEER

S.D.D. 14 B 8-1e

S.D.D. 14 B 8-1e



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.

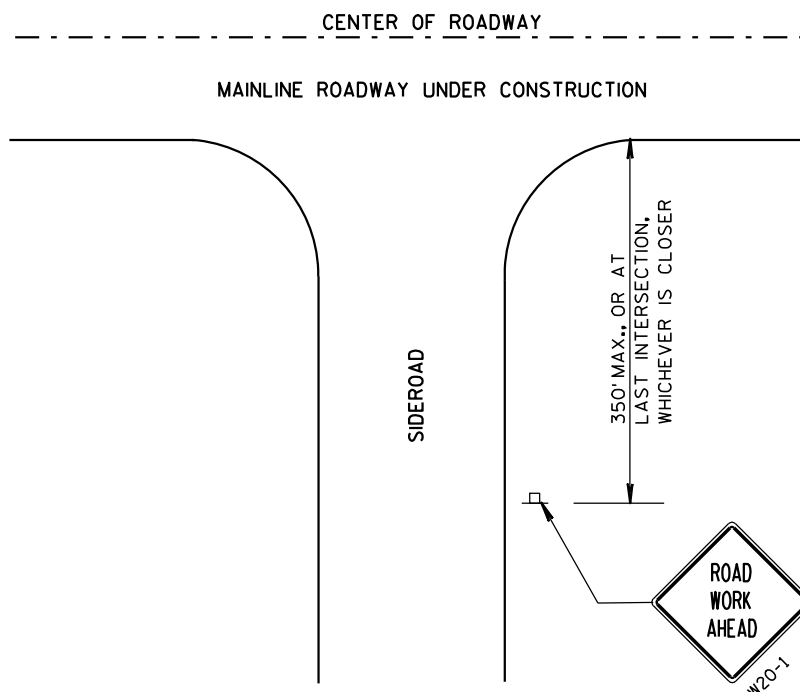
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

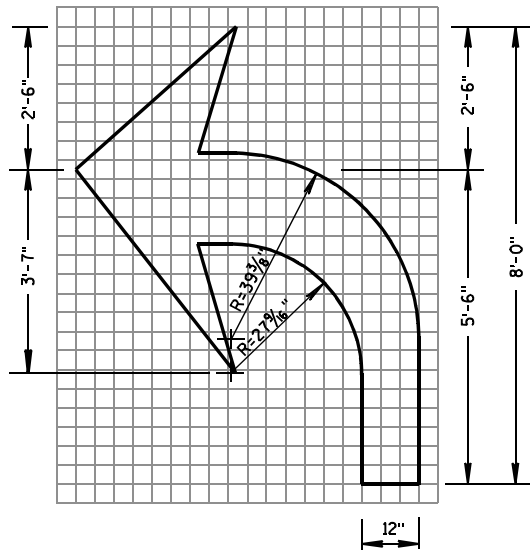
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



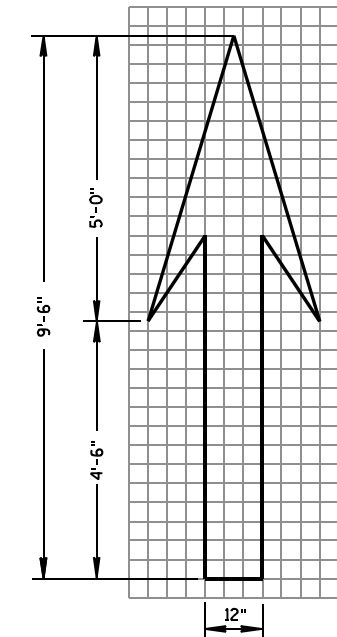
LEGEND

- POST MOUNTED SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

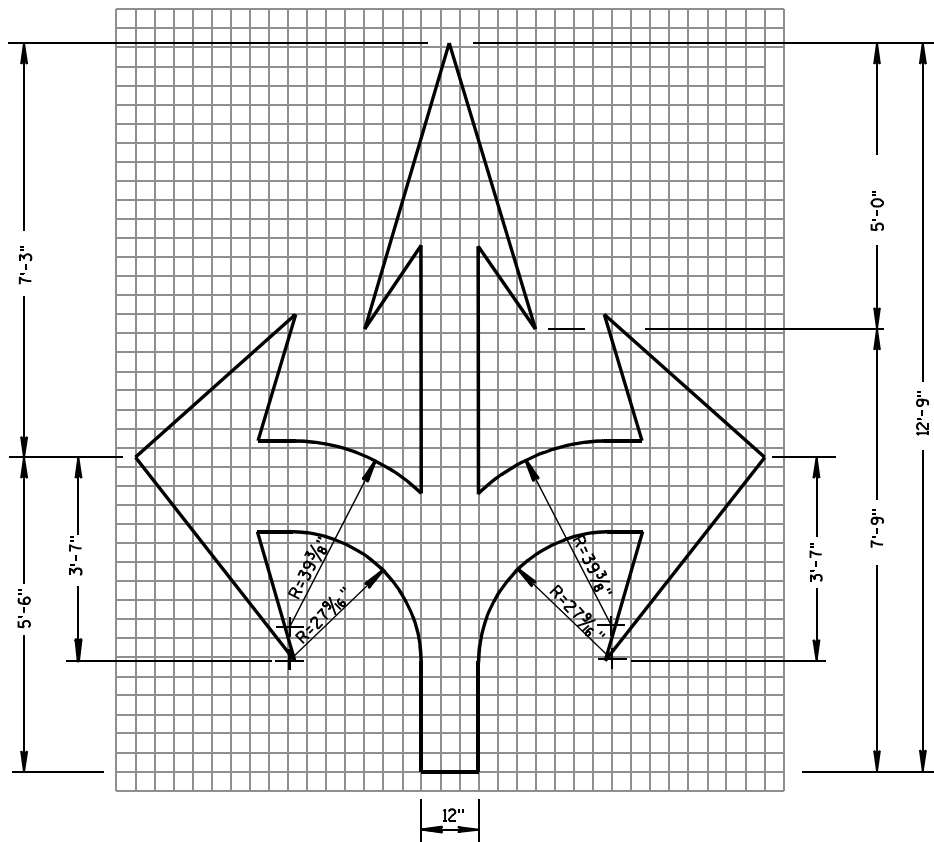
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/23/00 DATE	/S/ Chester J. 50 CHIEF SIGNS AND MARKING ENGINEER
FHWA	



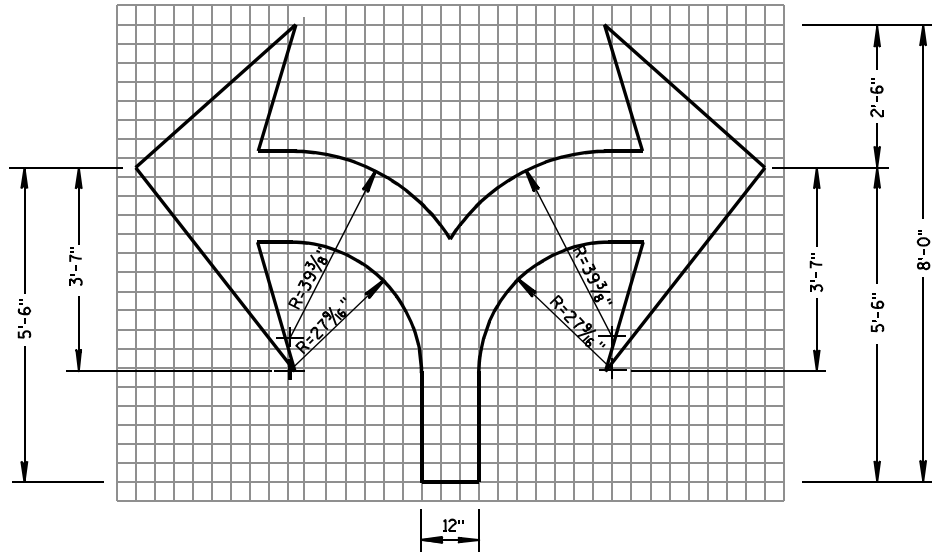
TYPE 2



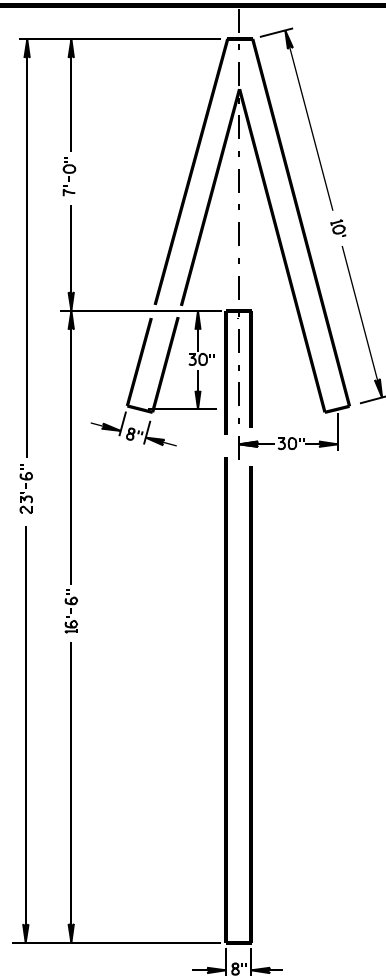
TYPE 1



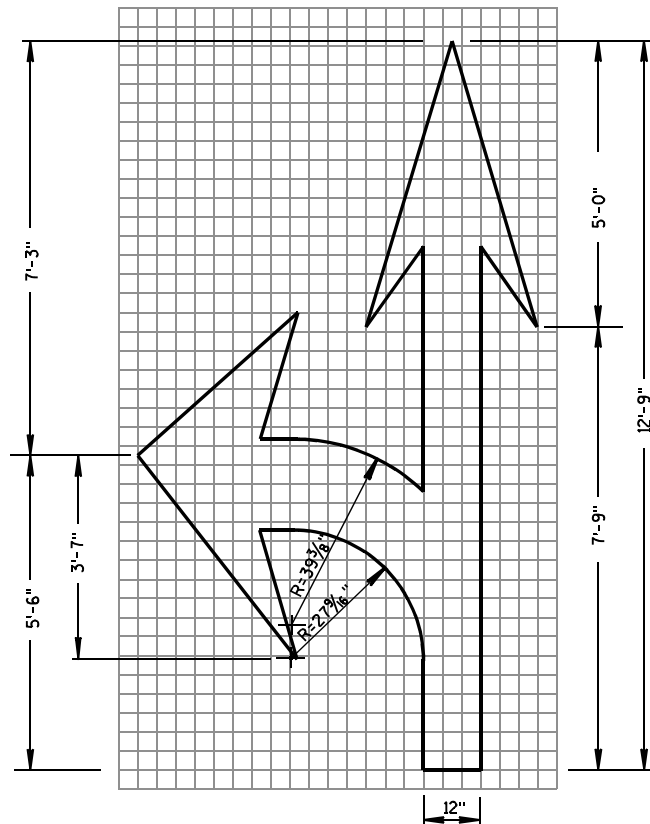
TYPE 6



TYPE 7



TYPE 4

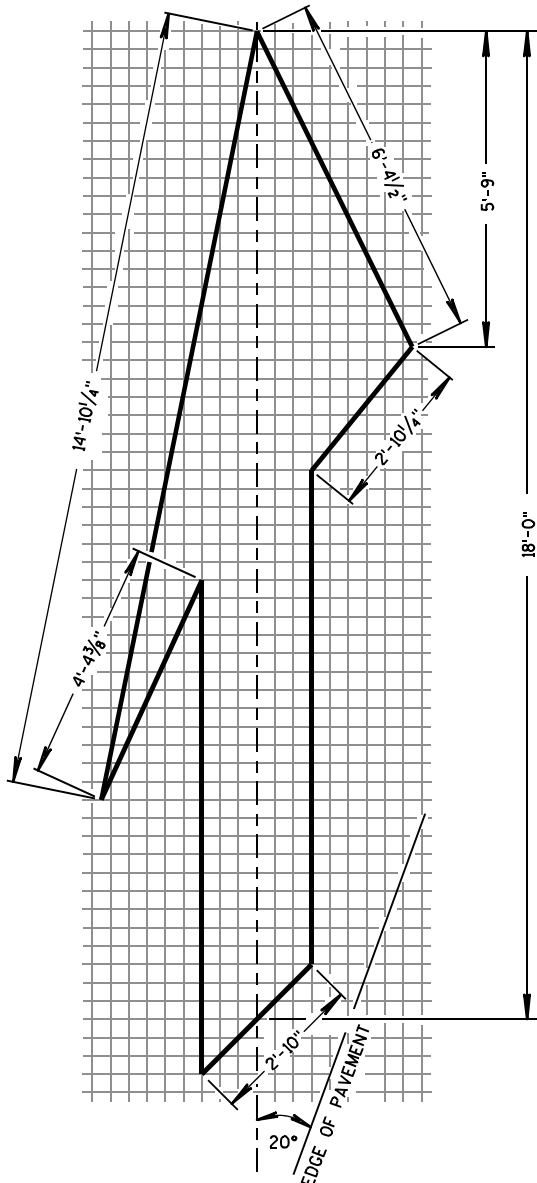


TYPE 3

GENERAL NOTES

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

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

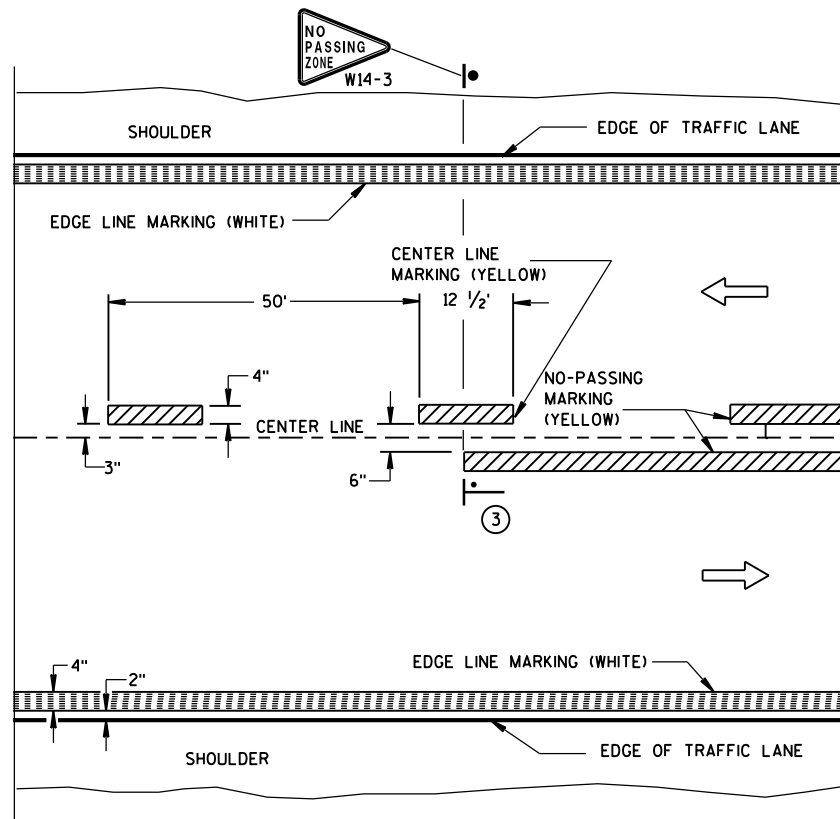


TYPE 5 LANE DROP ARROW

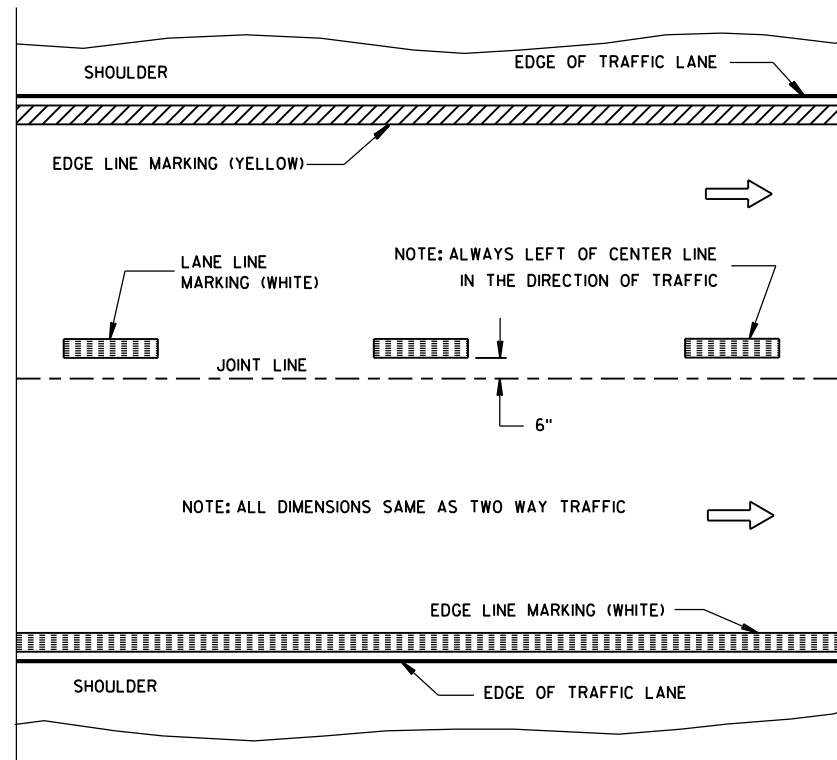
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE 7/1/11
/S/ Thomas N. Nathahn
STATE TRAFFIC ENGINE 51
SIGN
FHWA

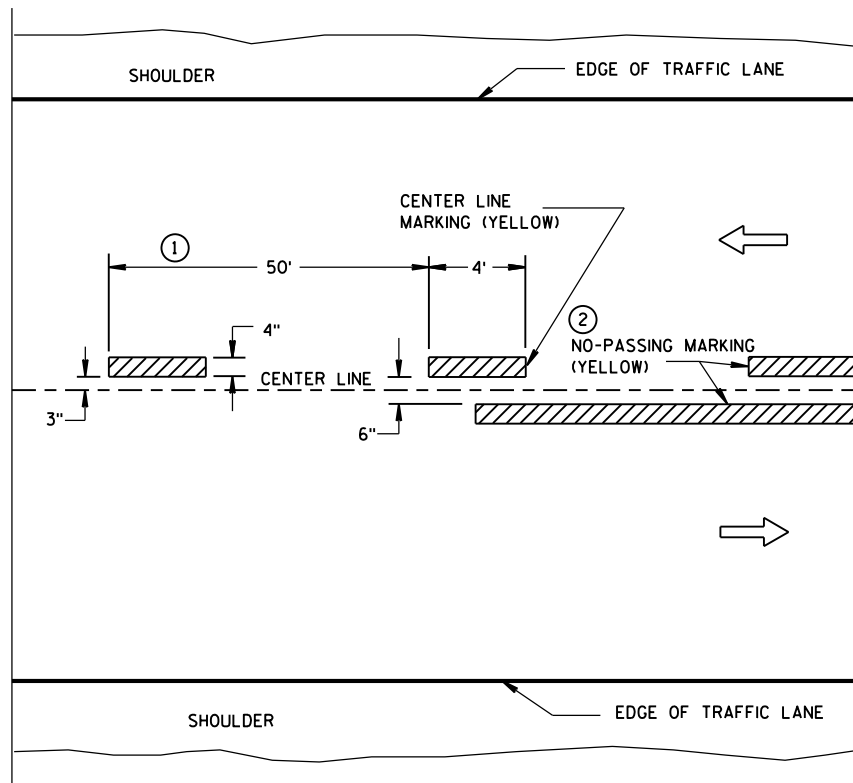


TWO WAY TRAFFIC

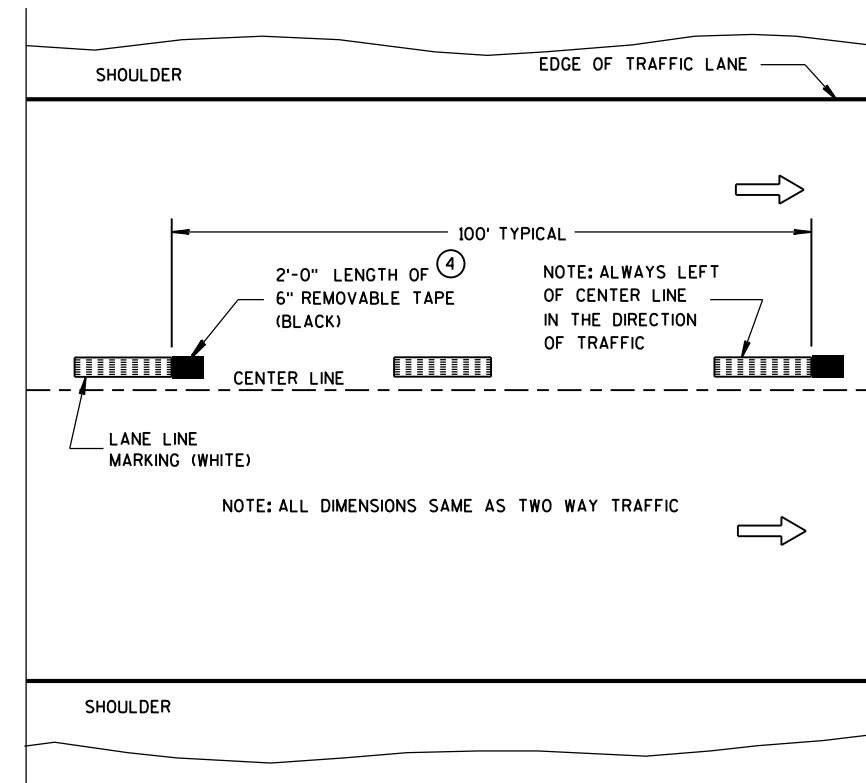


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

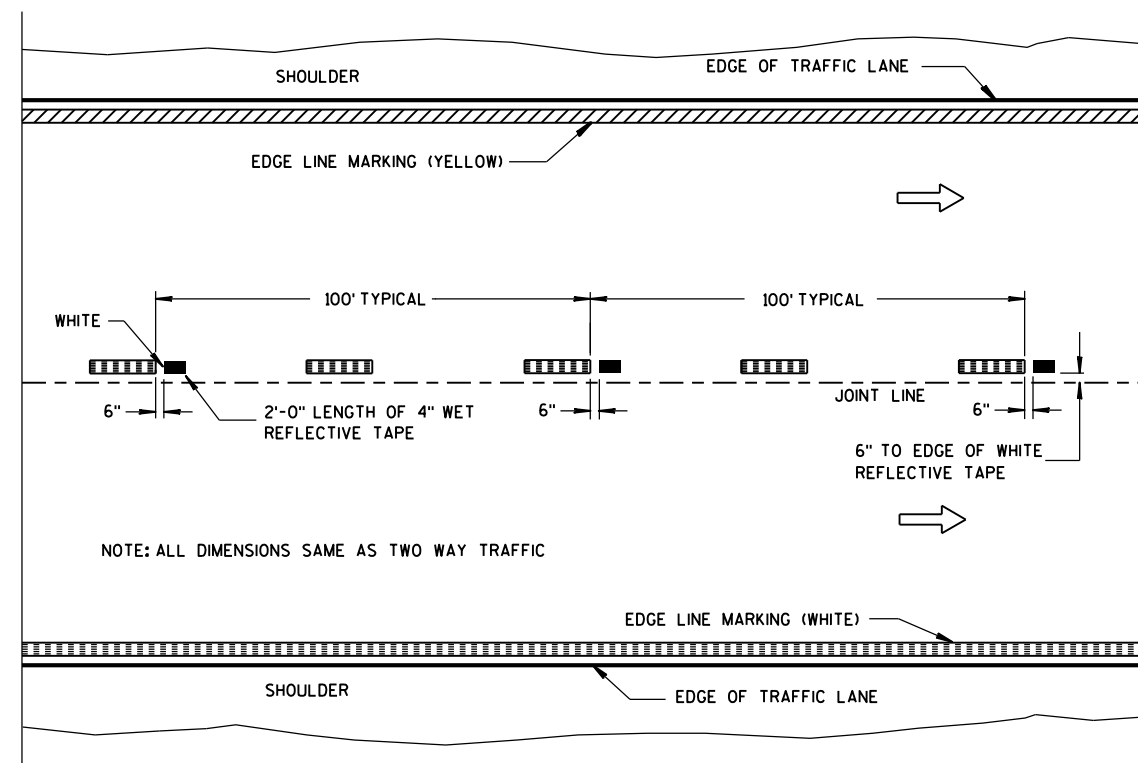
GENERAL NOTES

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

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

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



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

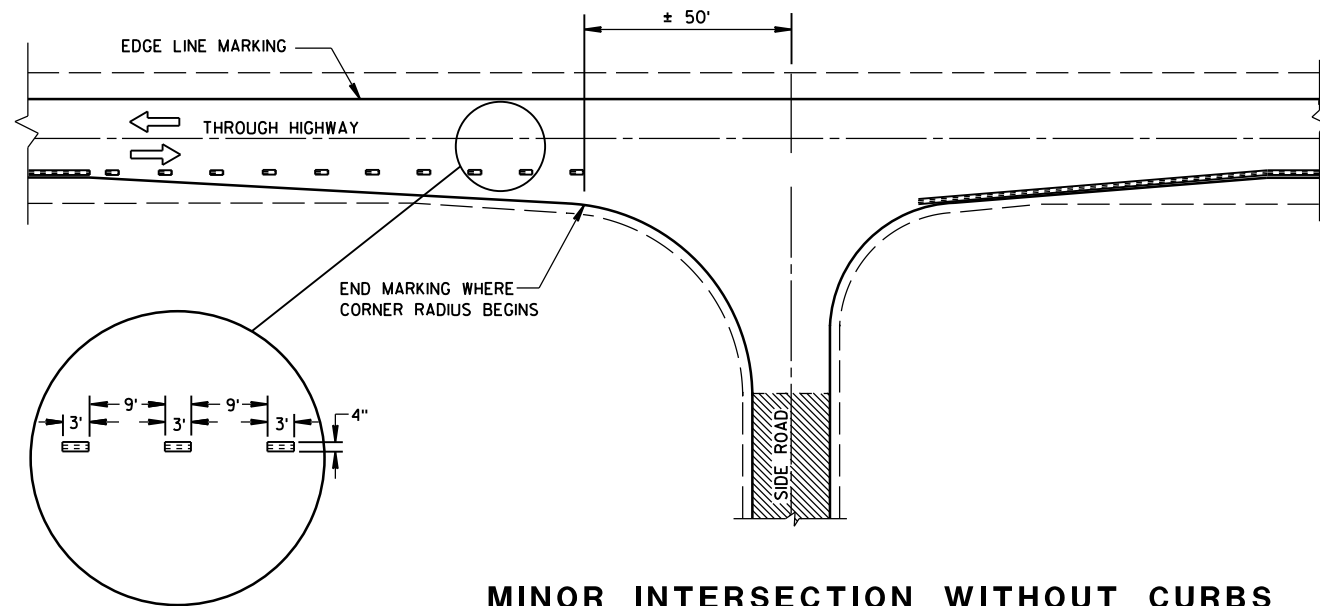
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-1-2012 /S/ Travis Fettes
DATE STATE TRAFFIC ENGINEER 52 :SIGN
FHWA



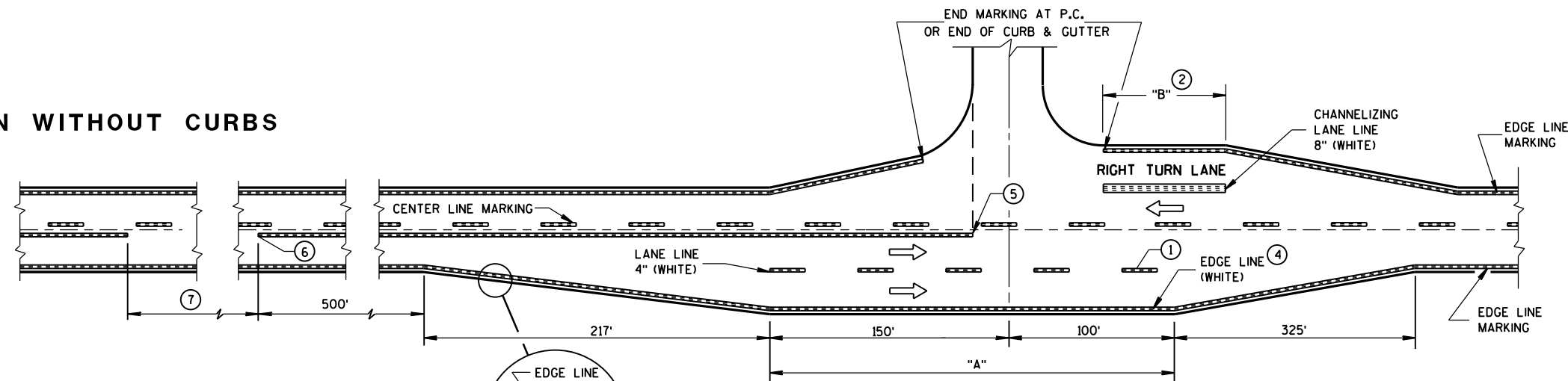
MINOR INTERSECTION WITHOUT CURBS

⑦

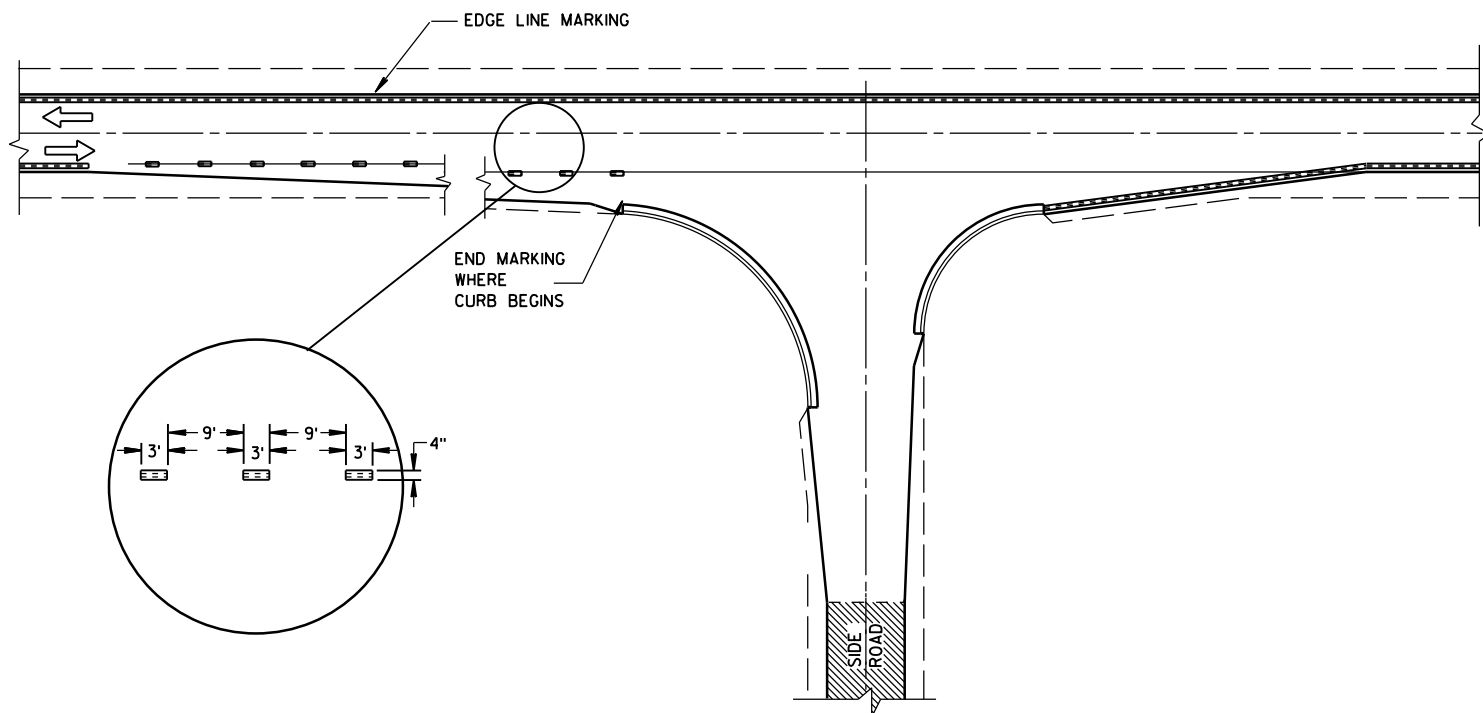
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792

GENERAL NOTES

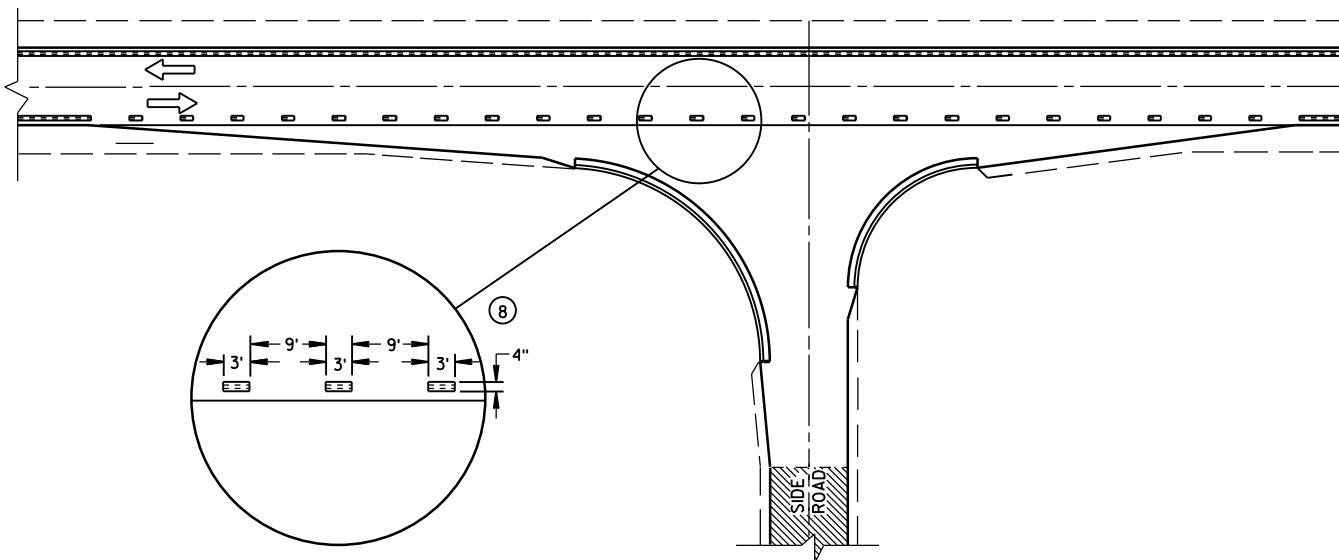
- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE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



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



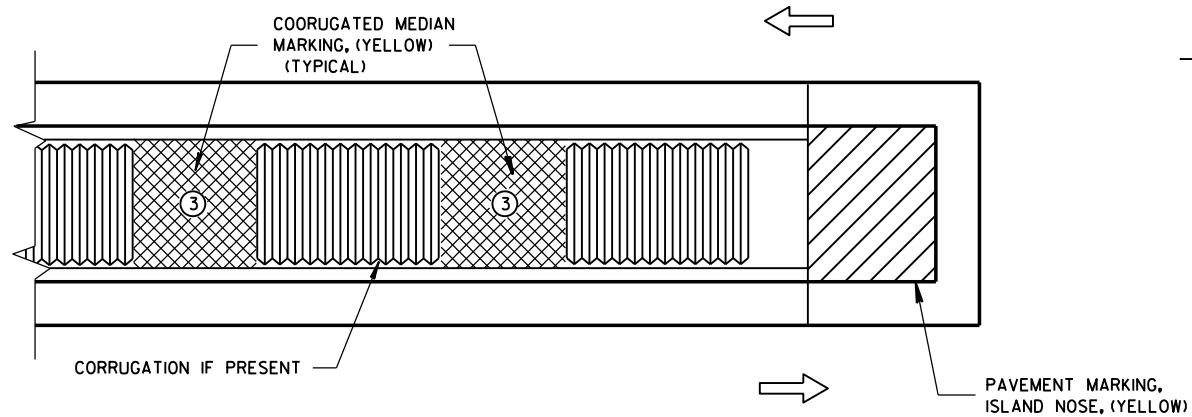
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



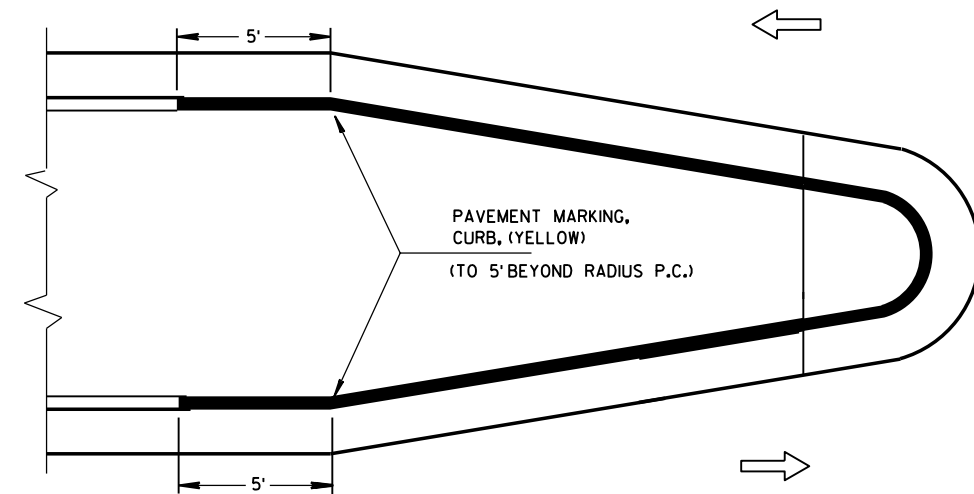
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

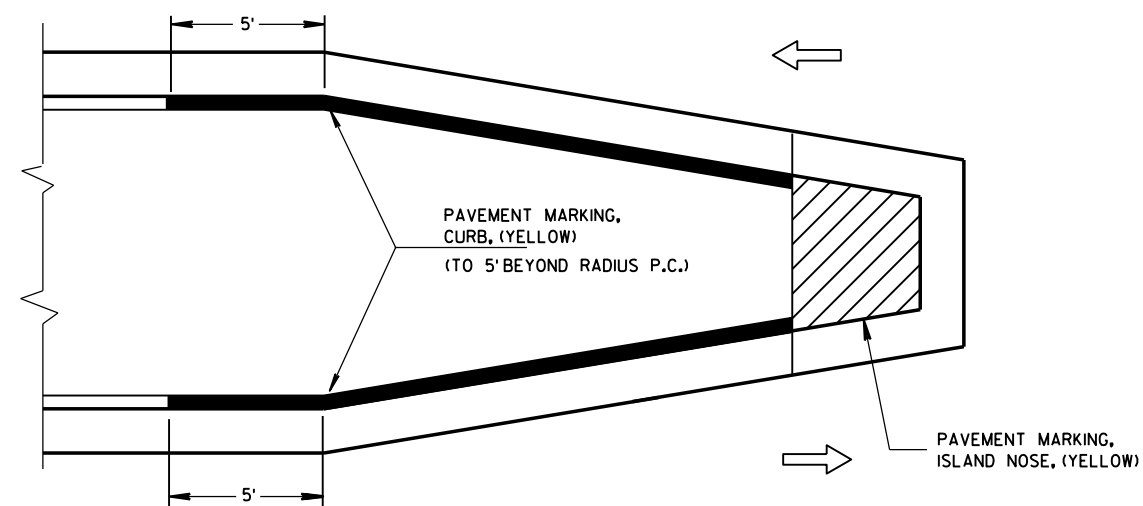
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

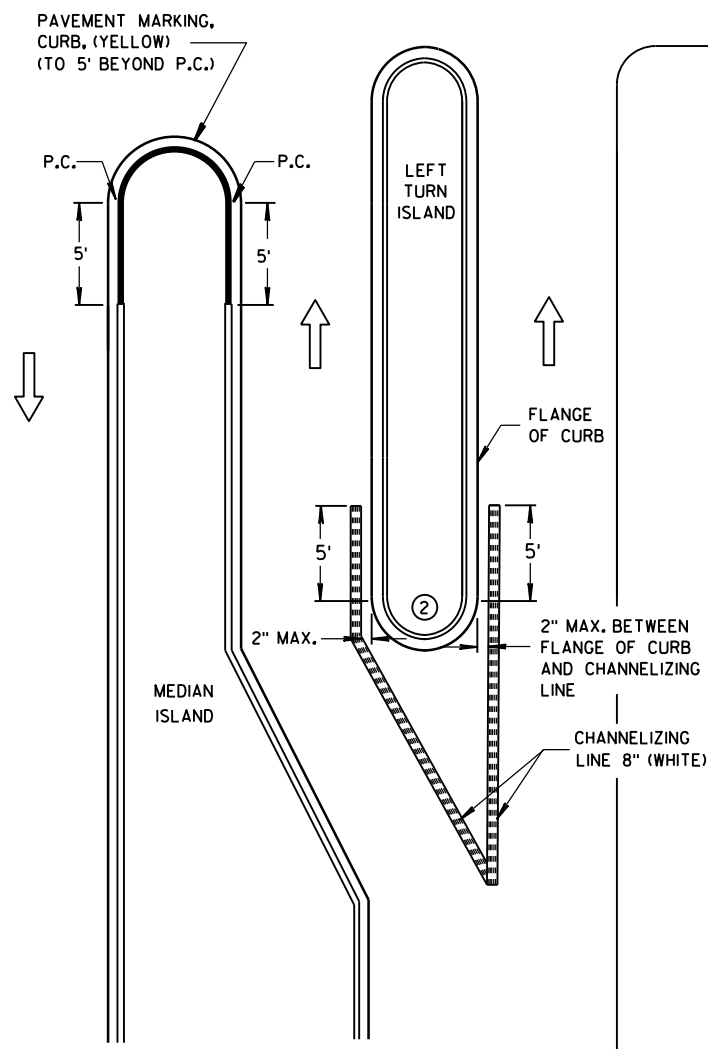


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

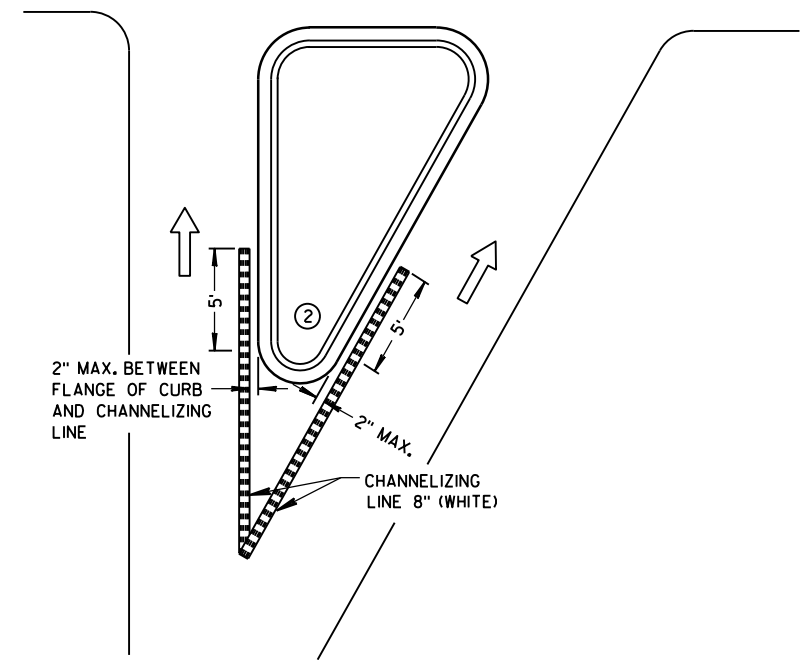
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

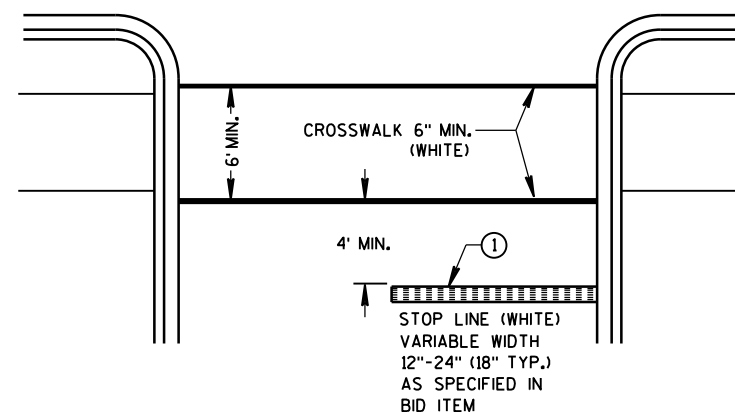
- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED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



RIGHT TURN ISLAND

LEGEND

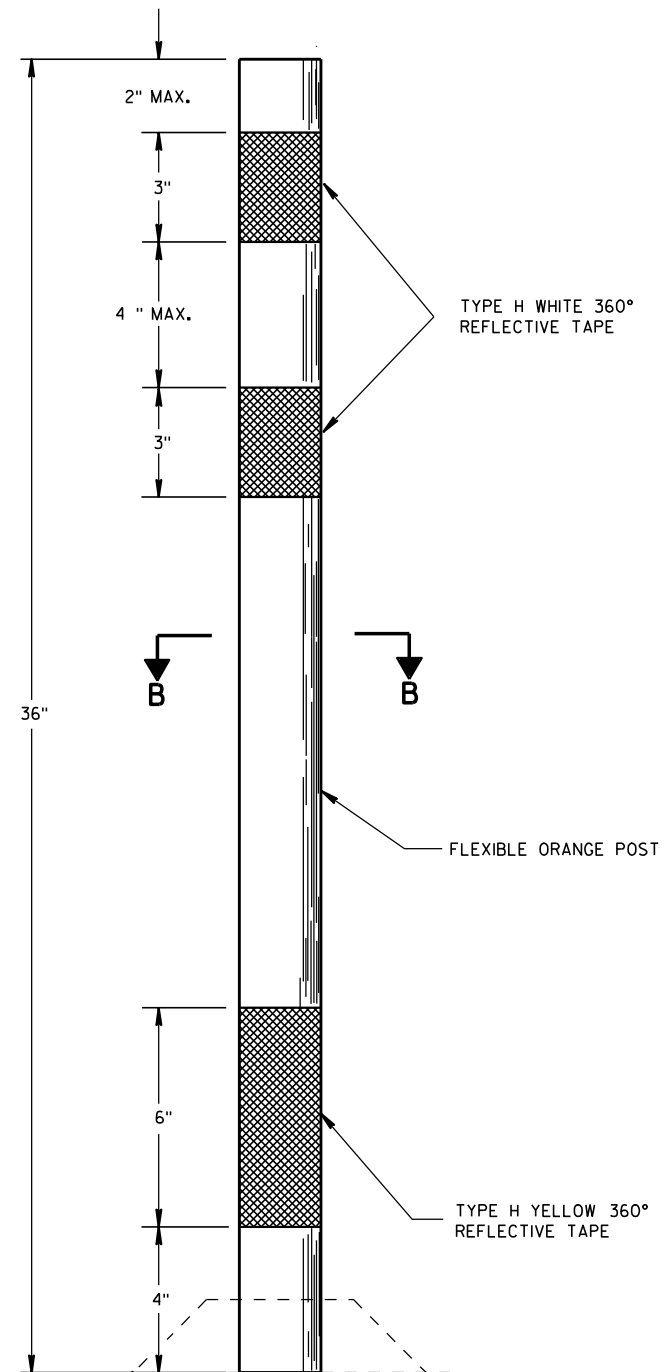
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL



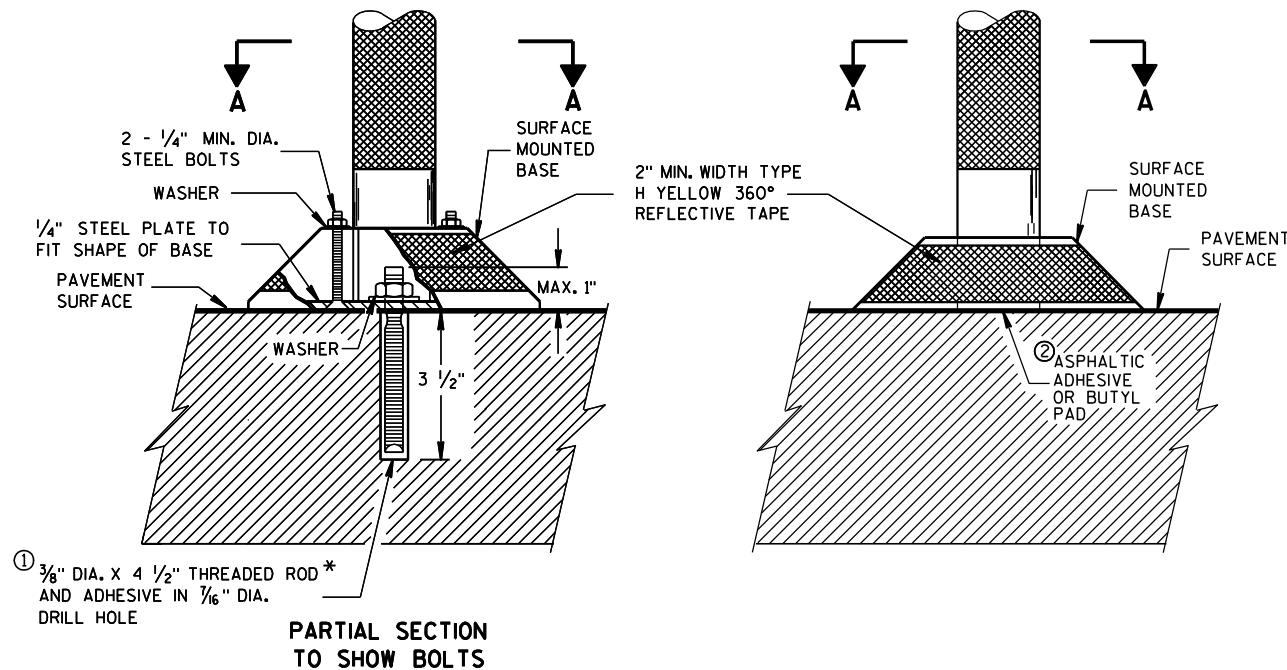
STOP LINE AND CROSSWALK

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

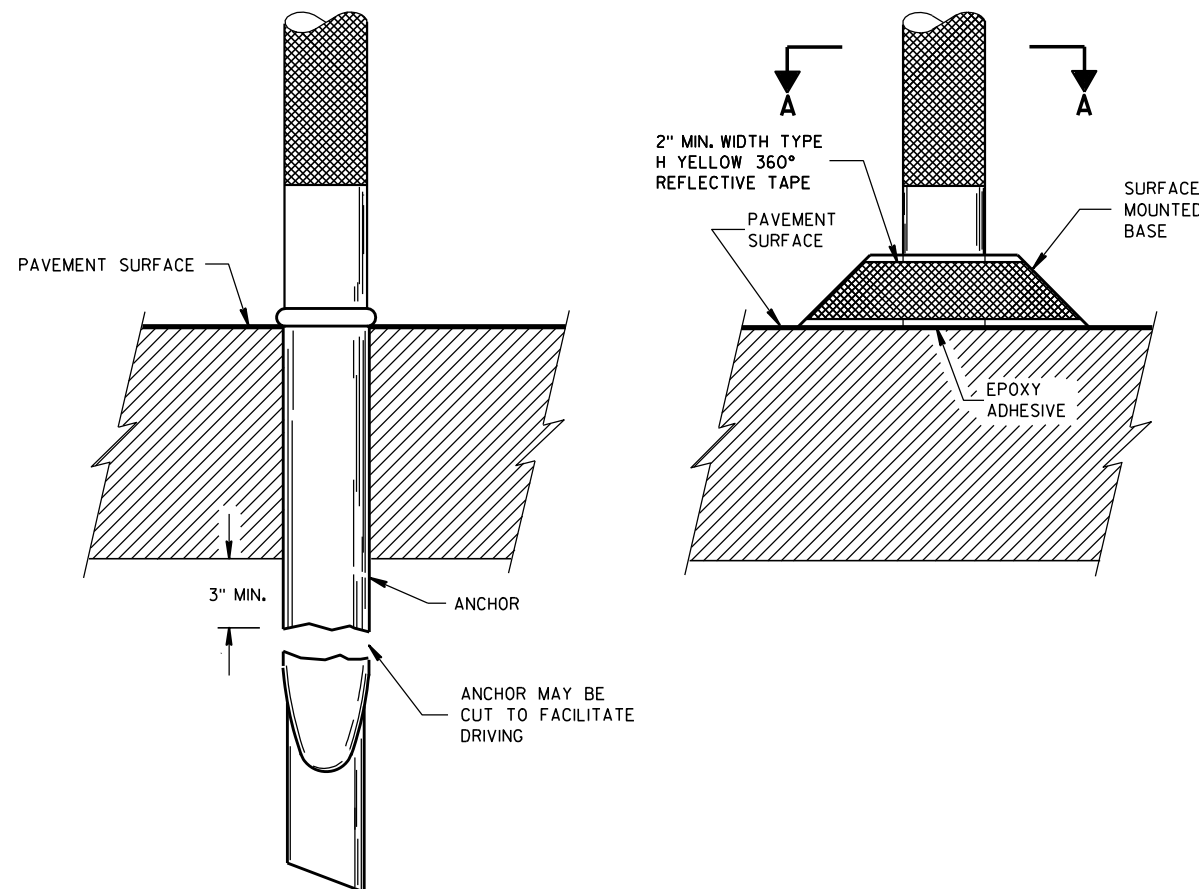
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE TUBULAR MARKER POST

PARTIAL SECTION
TO SHOW BOLTS

POST BASES ON NEW OR EXISTING PAVEMENT



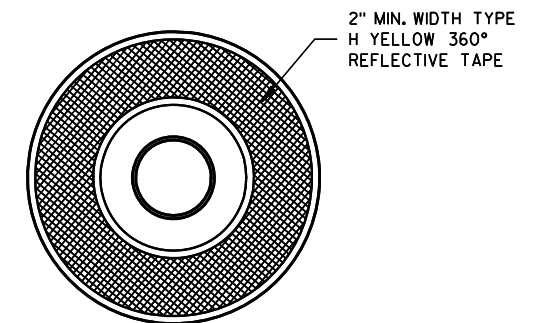
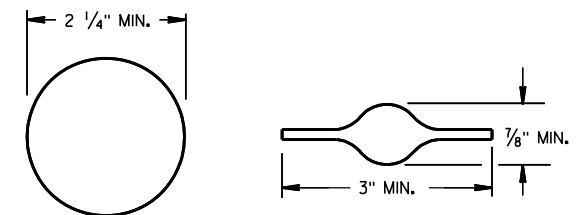
POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

- ① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.
- ② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

SECTION A-A
SURFACE MOUNTED BASESECTION B-B
ALTERNATIVE SHAPES

FLEXIBLE TUBULAR MARKER
POST, ANCHOR & BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/17/94
DATE

FHWA

/S/ Chester J. [Signature]
DIRECTOR, OFFICE 055

TWO-LANE ROADWAY

SYMBOLS



WORK AREA



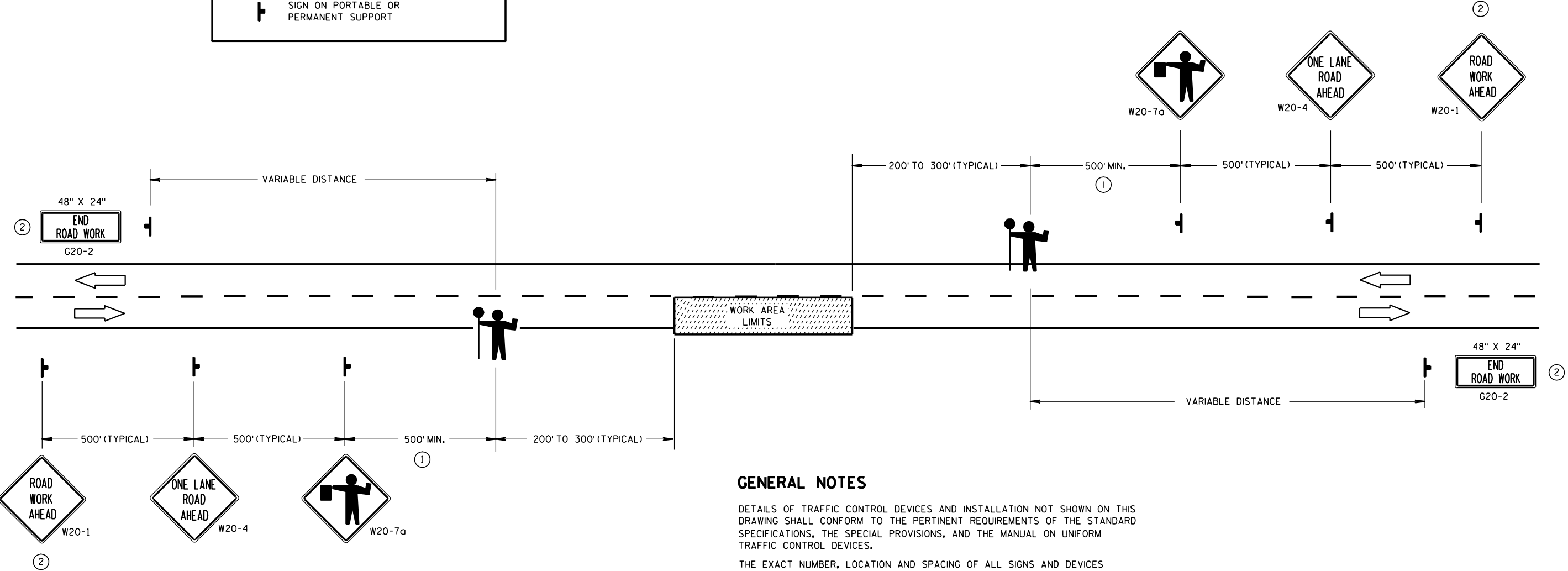
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



SIGN ON PORTABLE OR PERMANENT SUPPORT



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



GENERAL NOTES

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

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

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

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

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

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

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

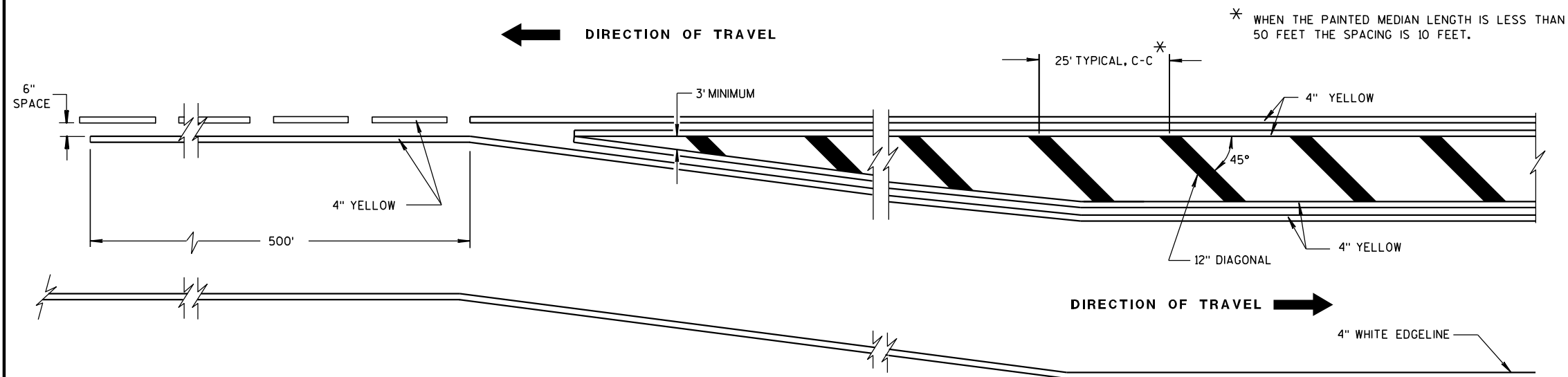
TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/5/06
DATE

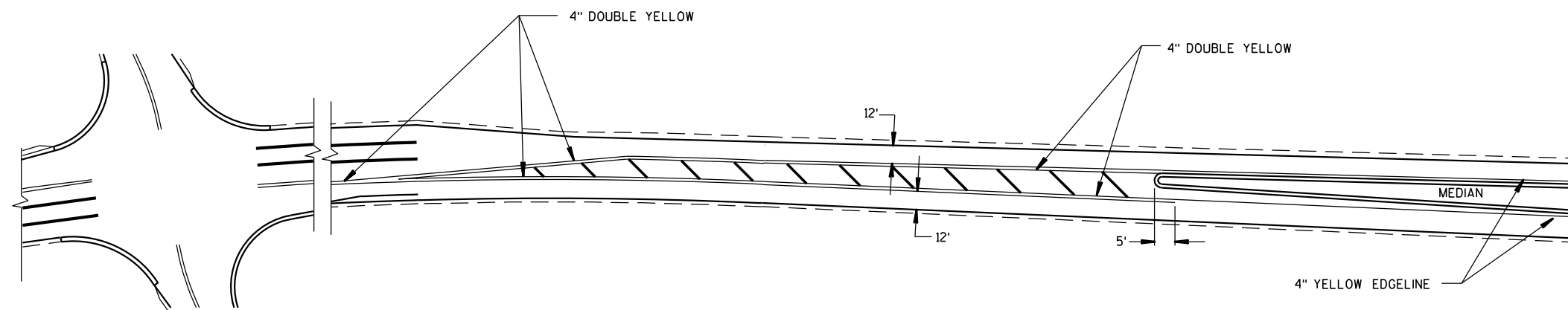
/S/ Thomas N. Nothnau
STATE TRAFFIC ENGINE 56
DESIGN

FHWA

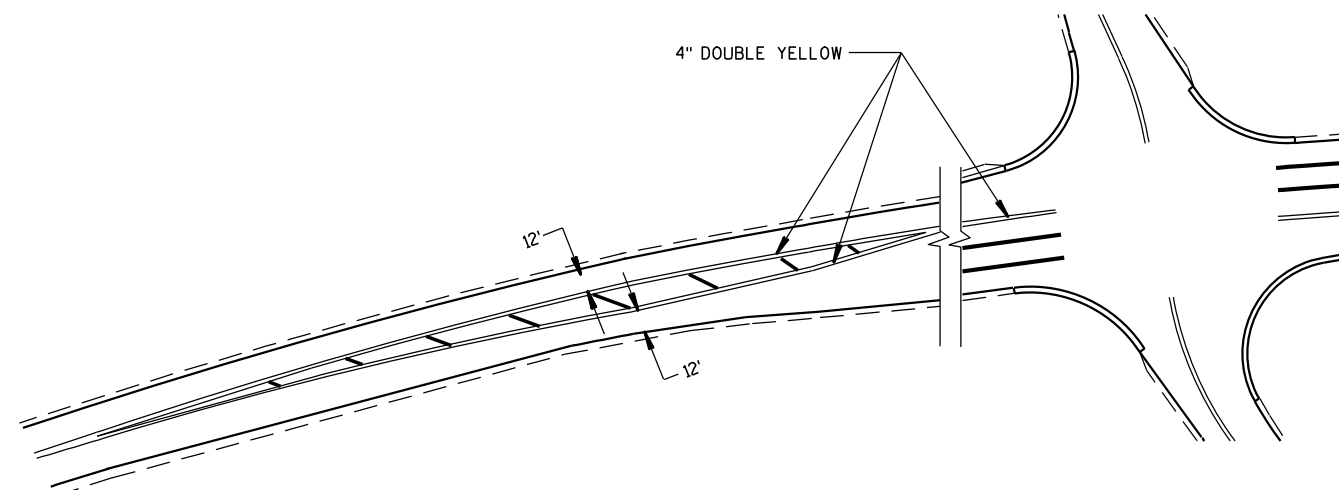


GENERAL NOTE

MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



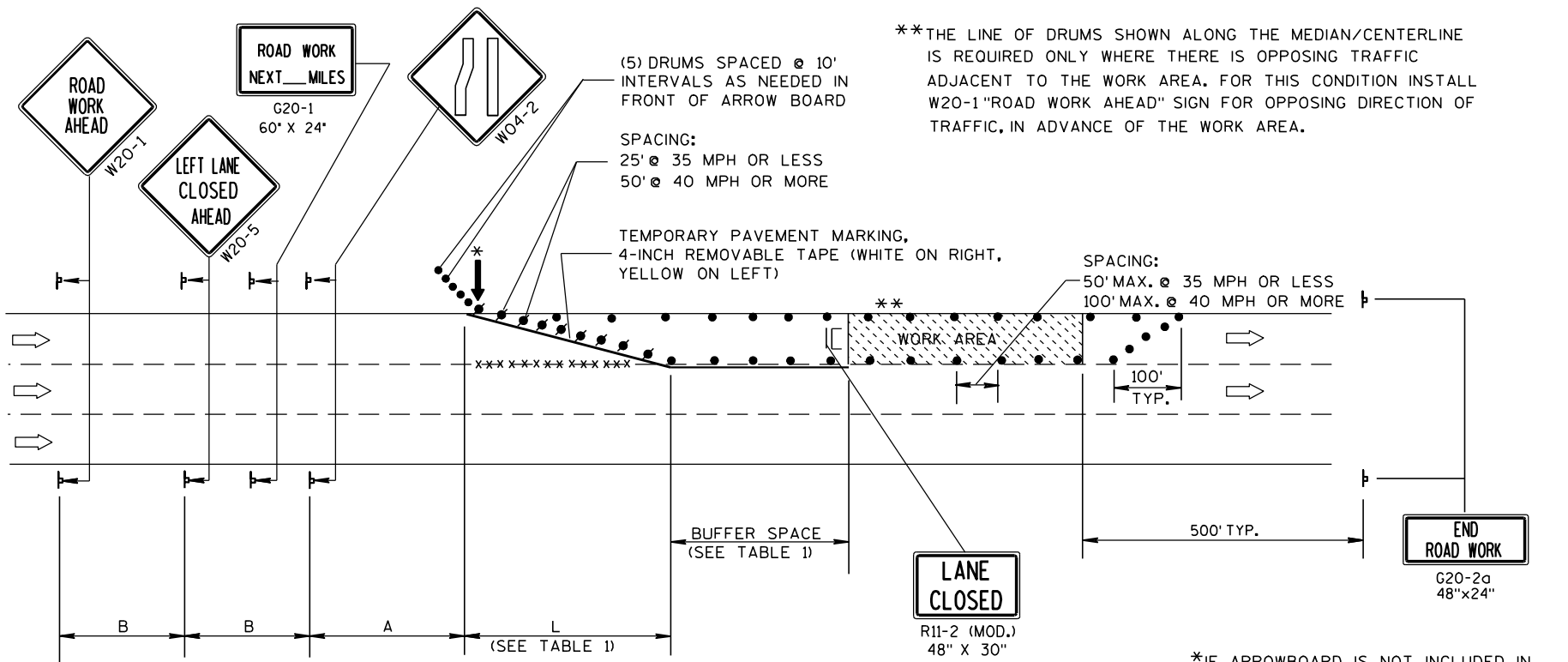
NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 57 IGN

6

- S.D.D. 15 D 12-2**

6



B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

L = TAPER LENGTH IN FEET

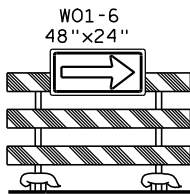
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

LEGEND

- /● DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- ⌵ POST MOUNTED SIGN
- ↑ ARROW BOARD
- IC/C TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)



GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

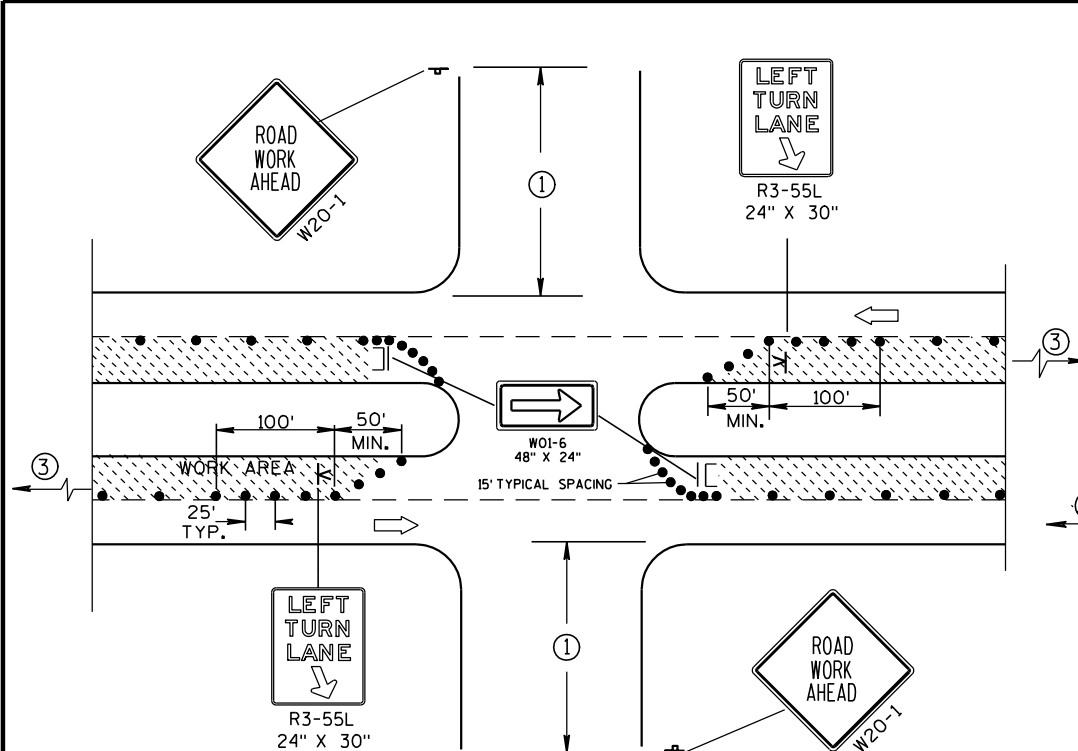
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

TRAFFIC CONTROL,
SINGLE LANE CLOSURE,
NON-FREEWAY/EXPRESSWAY

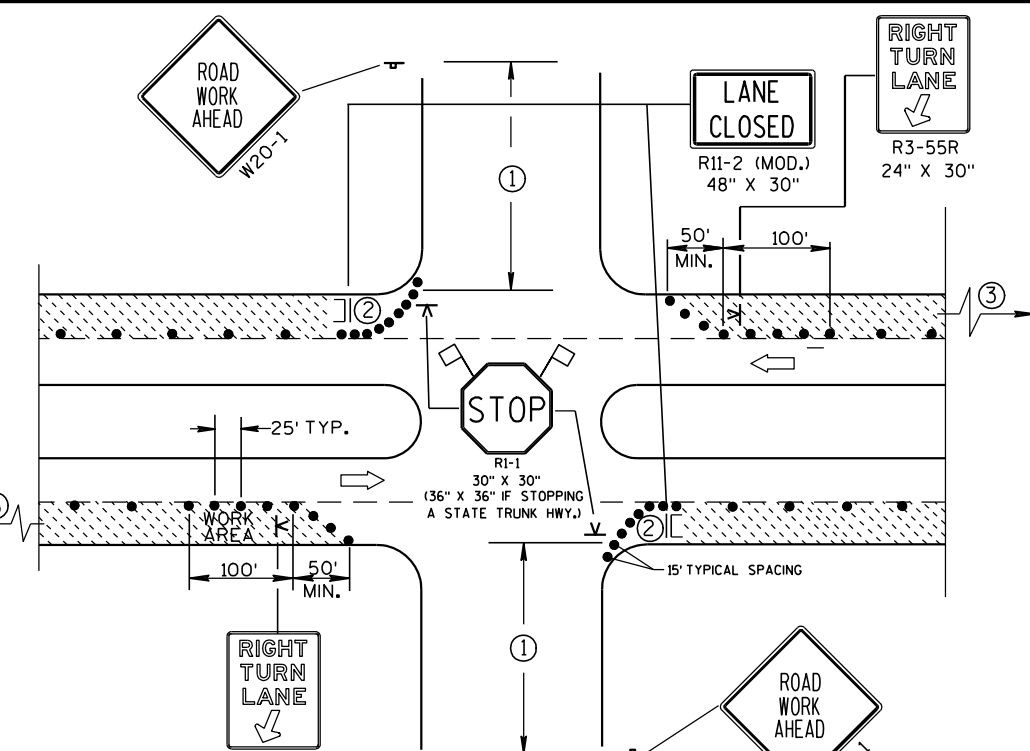
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. [Signature]
DATE CHIEF SIGNS AND MATERIALS INEER
FHWA



DETAIL A
FOR LEFT LANE CLOSURE AT
INTERSECTION OR MEDIAN OPENING

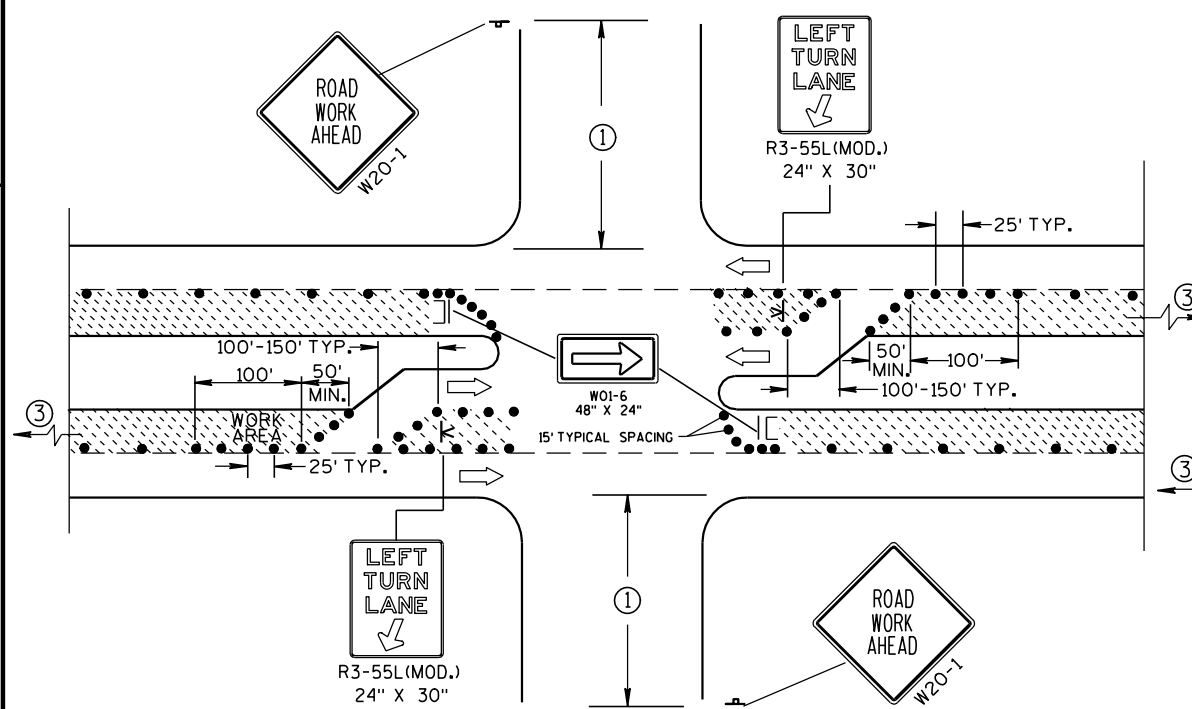
PROVIDE TURN LANES AT
INTERSECTIONS WHENEVER
STAGING OF WORK ALLOWS.
TAPER AND TURN LANE
LENGTHS BASED ON FIELD
CONDITIONS AS APPROVED
BY THE ENGINEER.



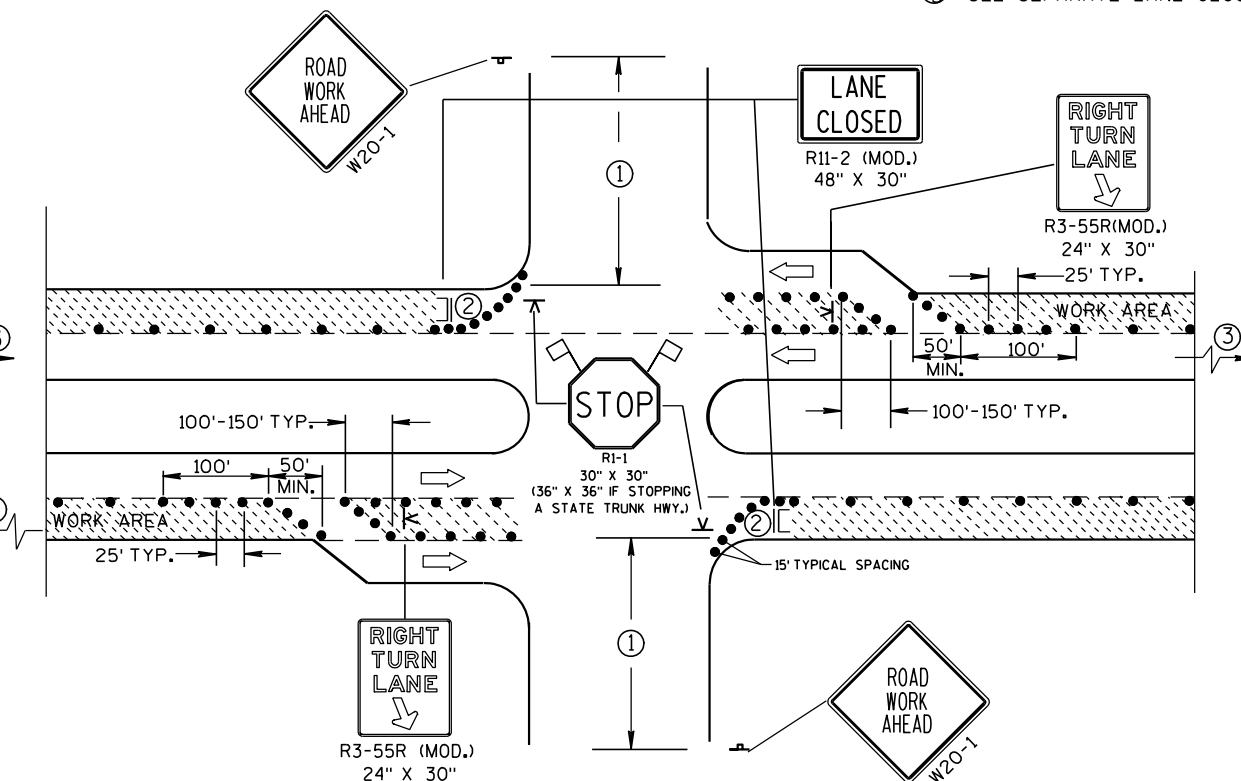
DETAIL B
FOR RIGHT LANE CLOSURE
AT INTERSECTION

GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
- ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.
- BARRICADES IN A CLOSED LANE 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.
- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.
 - ② ALSO USE BARRICADE AND 15' TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.
 - ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C
FOR LEFT LANE CLOSURE AT INTERSECTION OR
MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

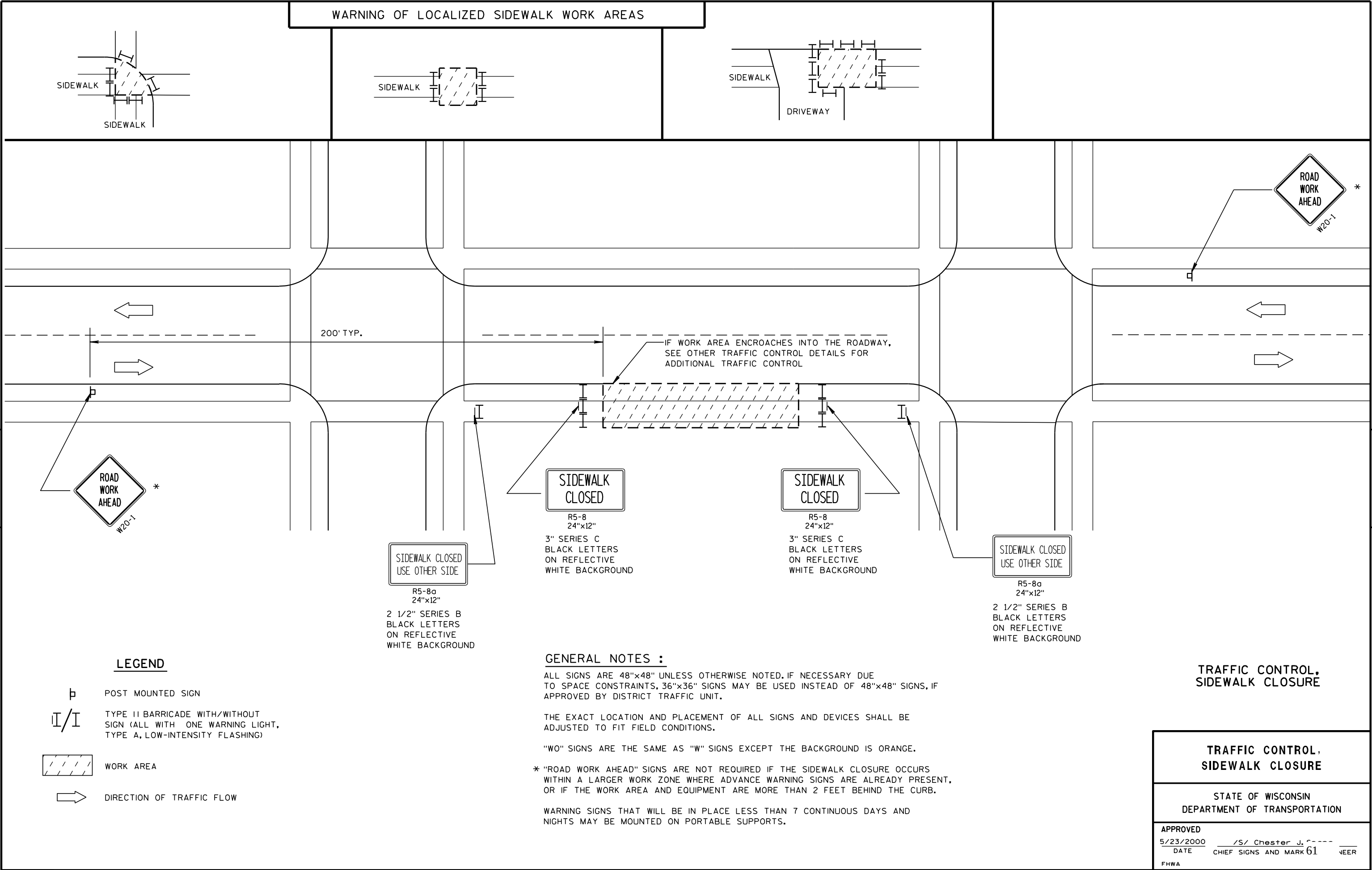


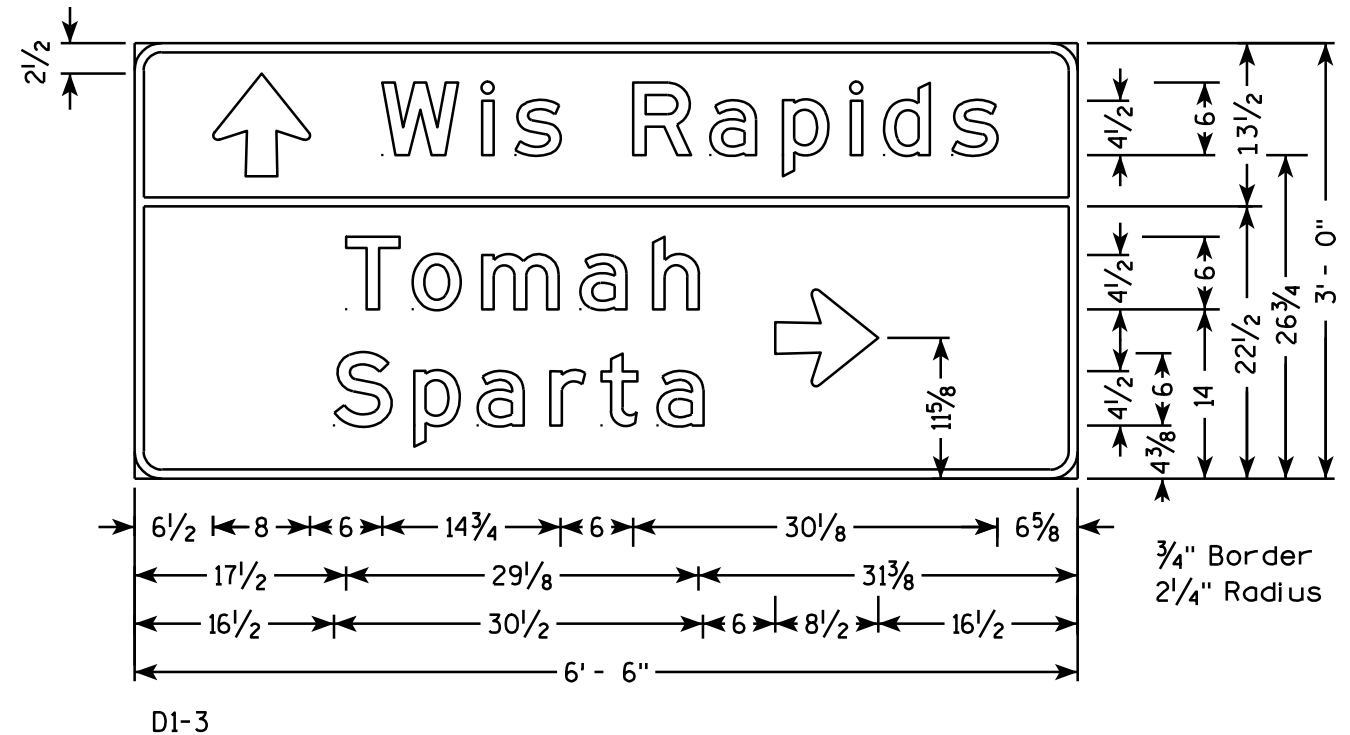
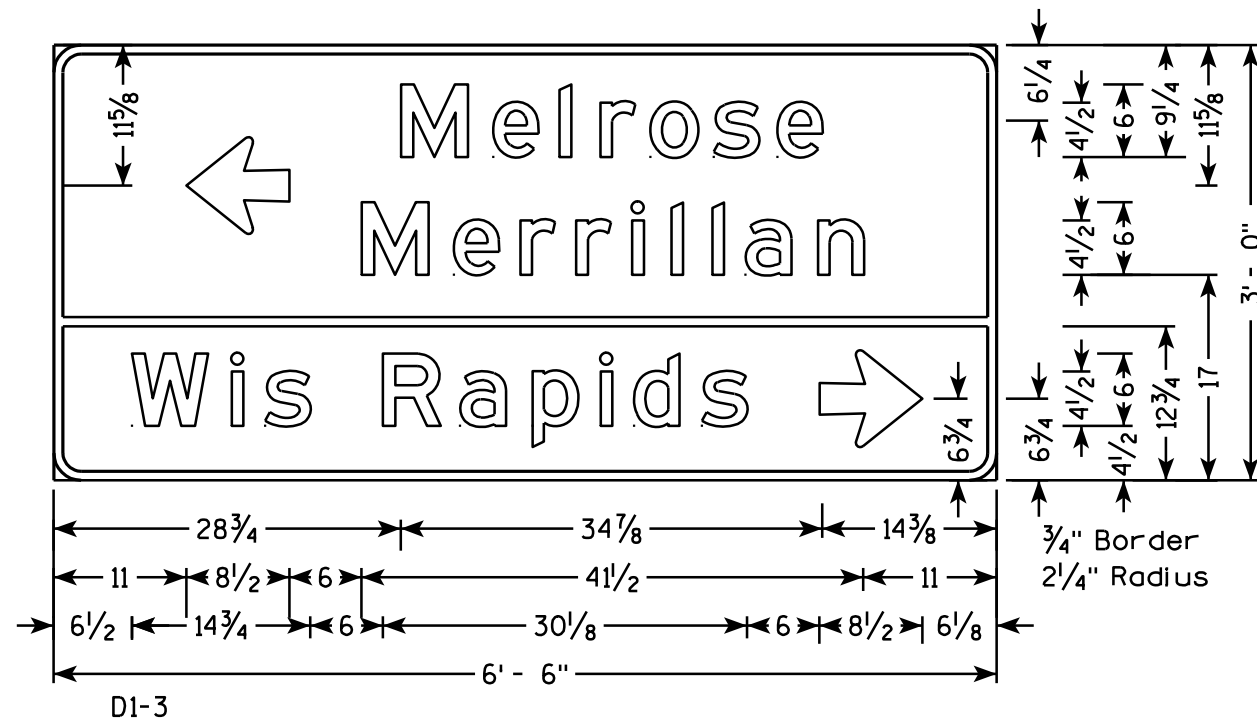
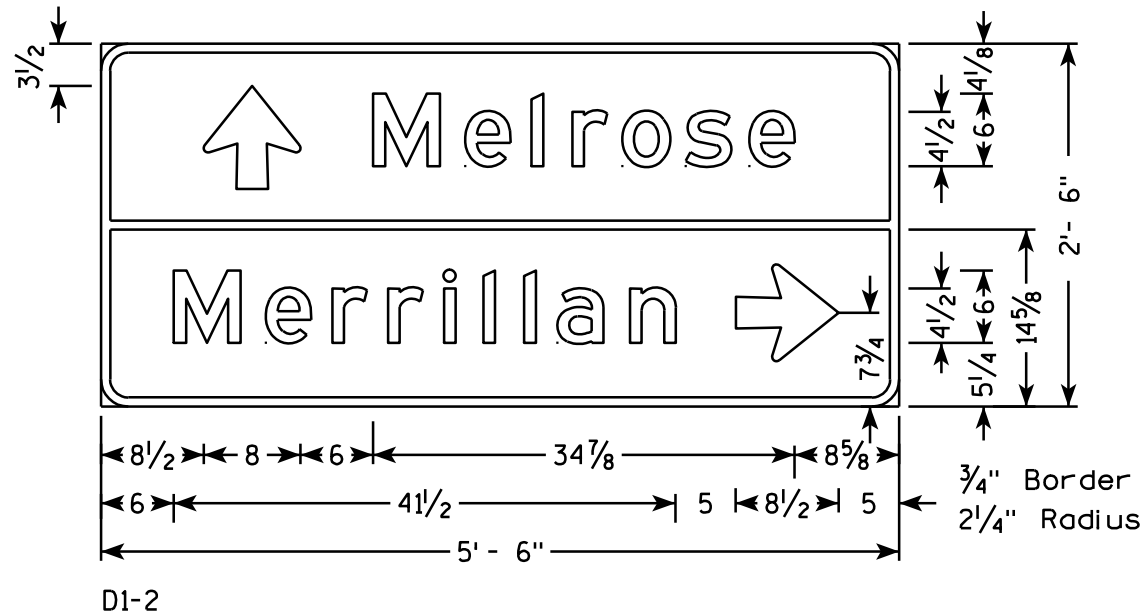
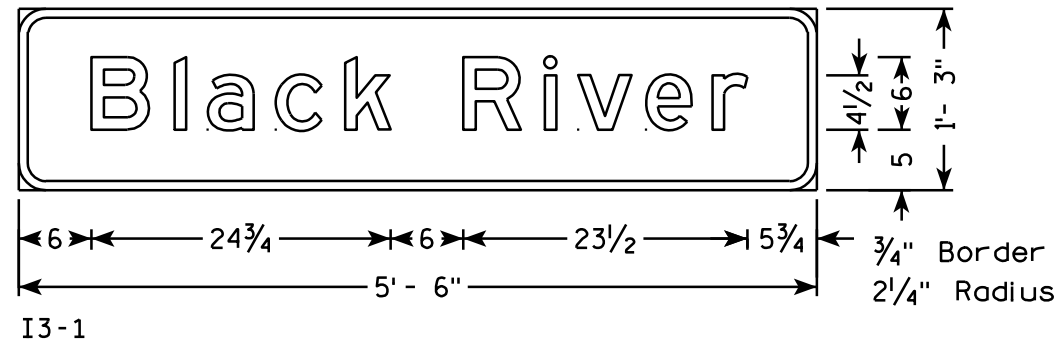
DETAIL D
FOR RIGHT LANE CLOSURE AT INTERSECTION
(WITH RIGHT TURN BAY OPEN)

LEGEND

- DRUM
- ⌈ POST MOUNTED SIGN
- K SIGN ON PORTABLE SUPPORT (5' MIN. MOUNTING HEIGHT)
- || TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH SIGN
- ➡ DIRECTION OF TRAFFIC FLOW
- 🚩 FLAGS, 16" X 16" MIN., ORANGE

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED 5/23/00 DATE	/S/ Chester J. Spang CHIEF SIGNS AND MAR 60 INEER		
FHWA			





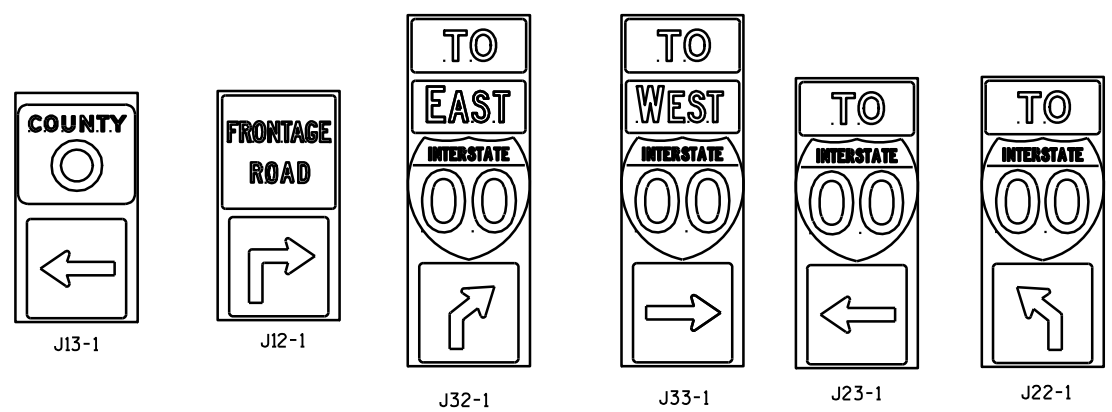
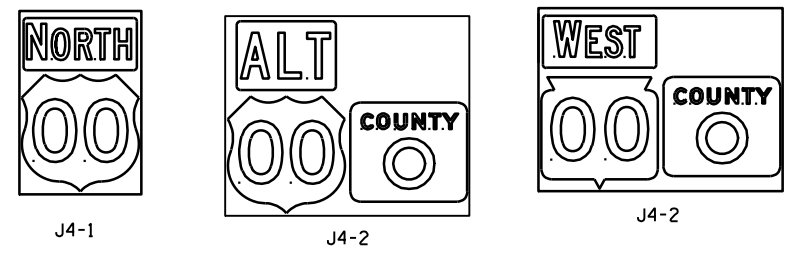
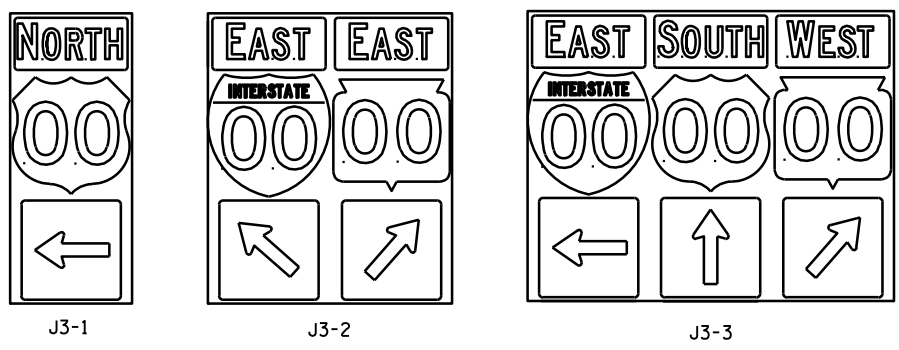
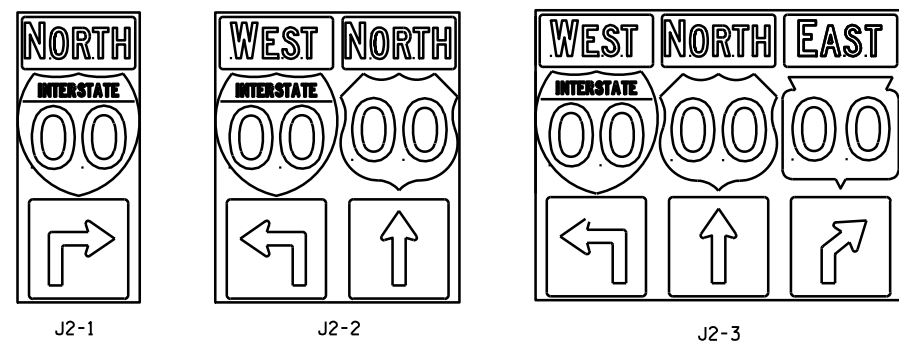
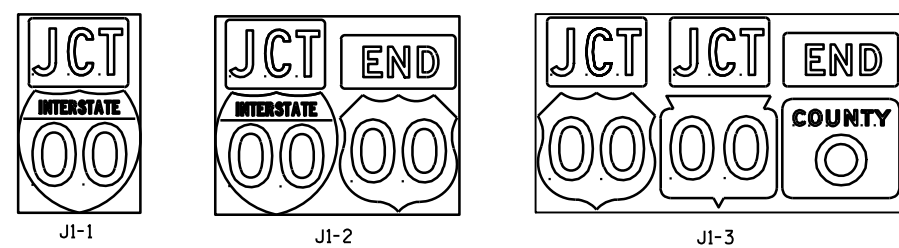
NOTES

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

7

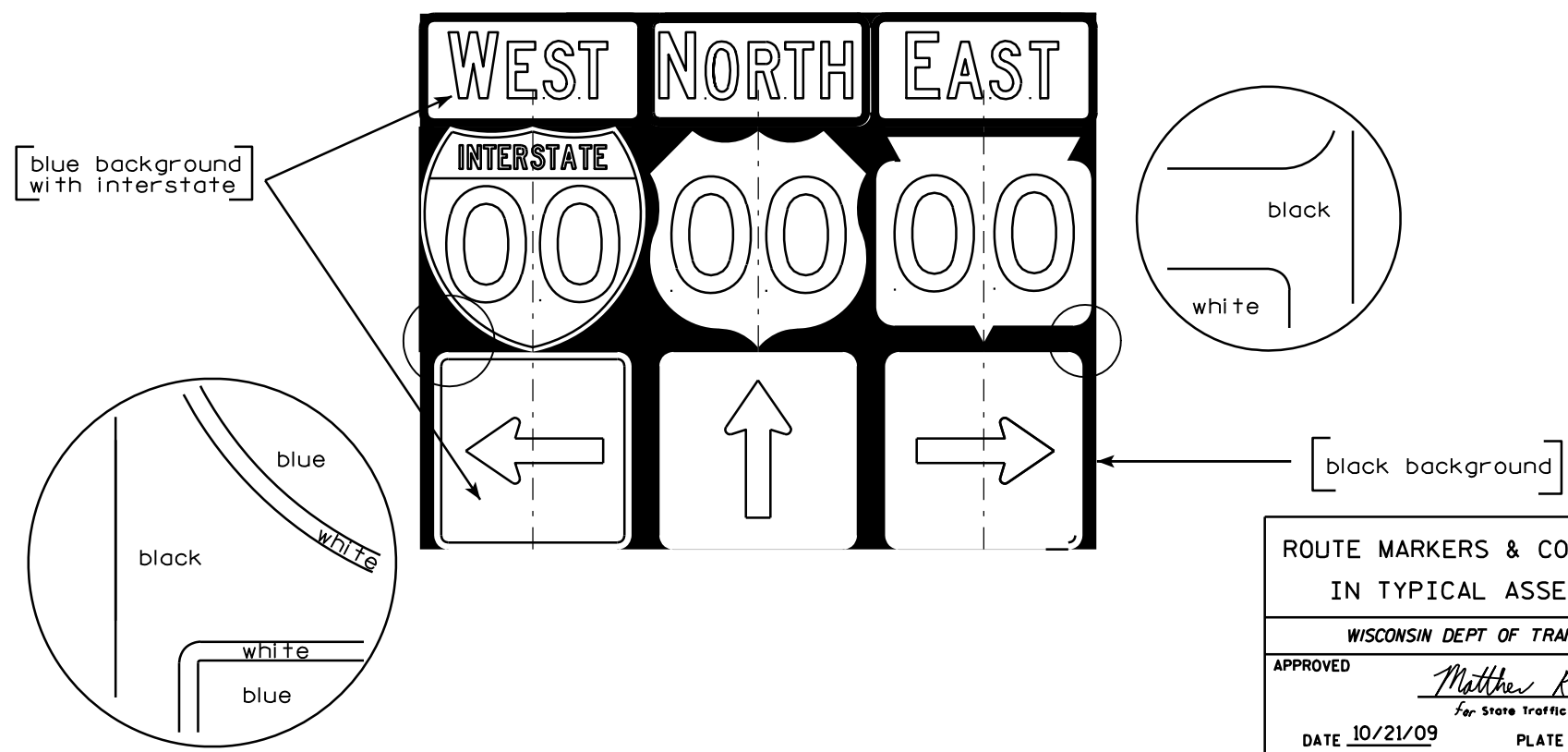
7

TYPICAL ASSEMBLIES

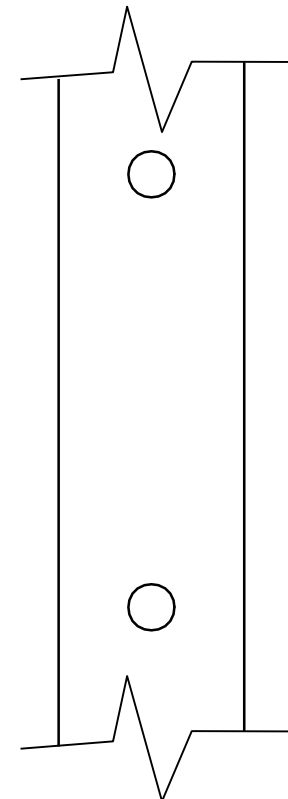
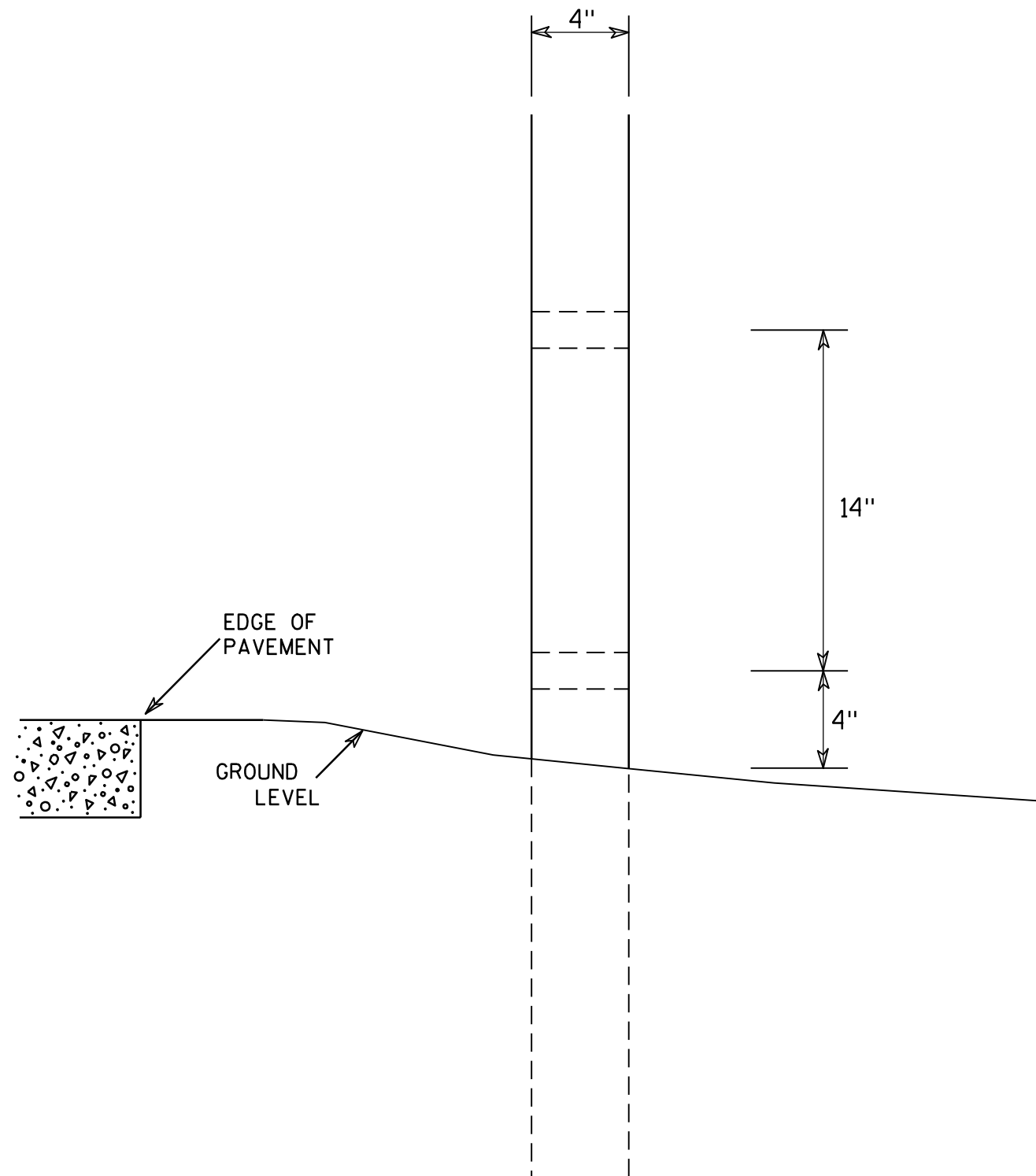


NOTES

- 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 since base material is plywood.
- 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.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 10/21/09	PLATE NO. A2-1S.6



SIDE VIEW

GENERAL NOTES

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

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:

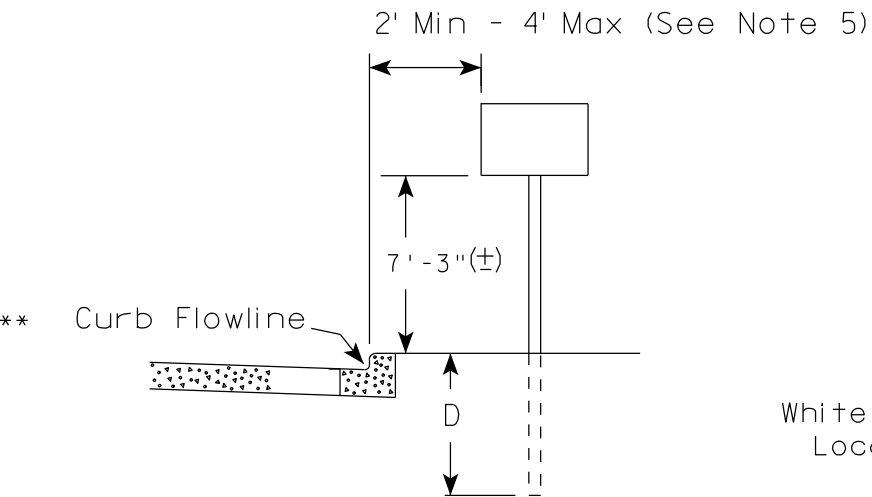
HWY:

COUNTY:

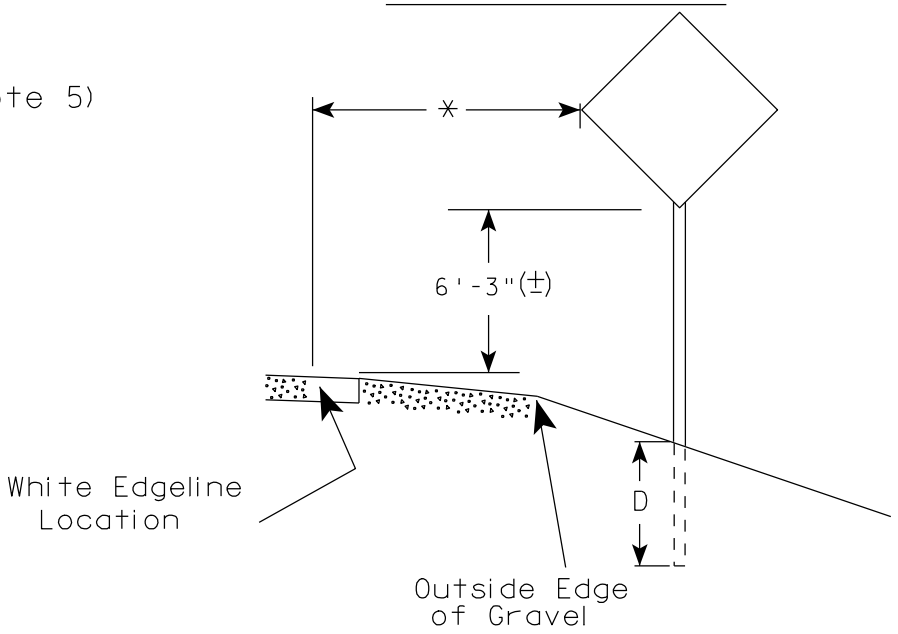
SHEET NO: 64

E

URBAN AREA



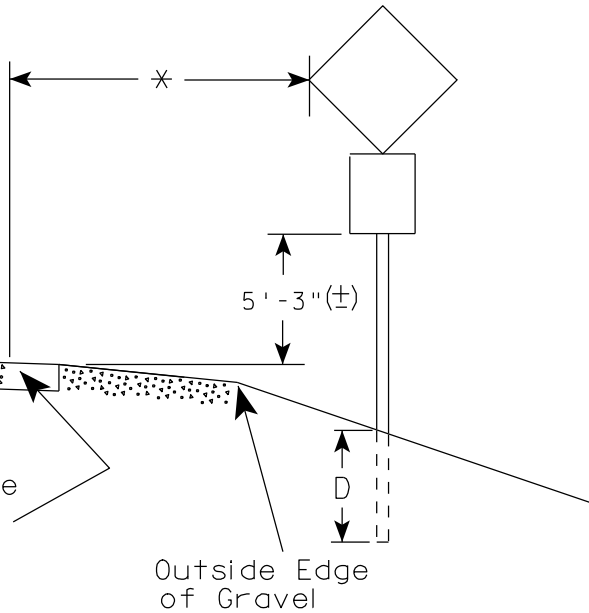
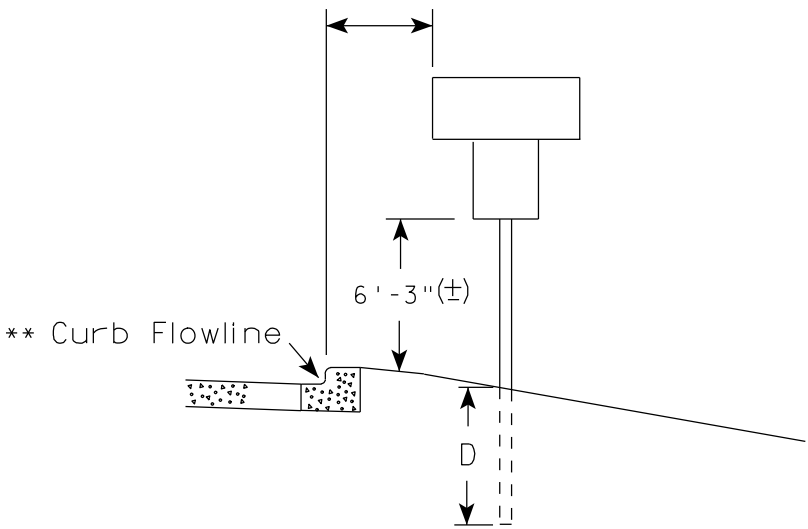
RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

2' Min - 4' Max (See Note 5)



POST EMBEDMENT DEPTH

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

* * 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.

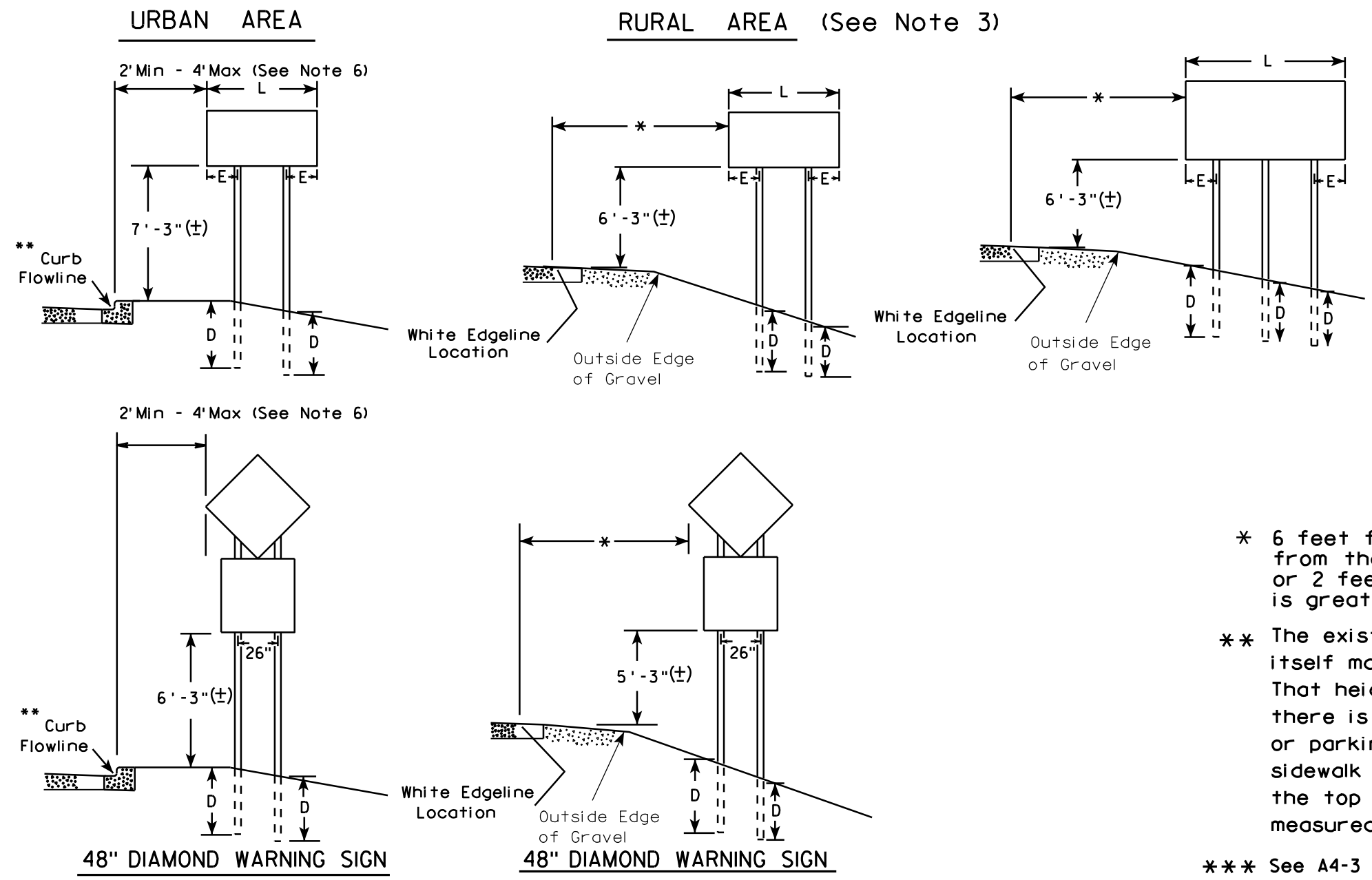
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16



GENERAL NOTES

1. For multiple post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

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

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

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

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

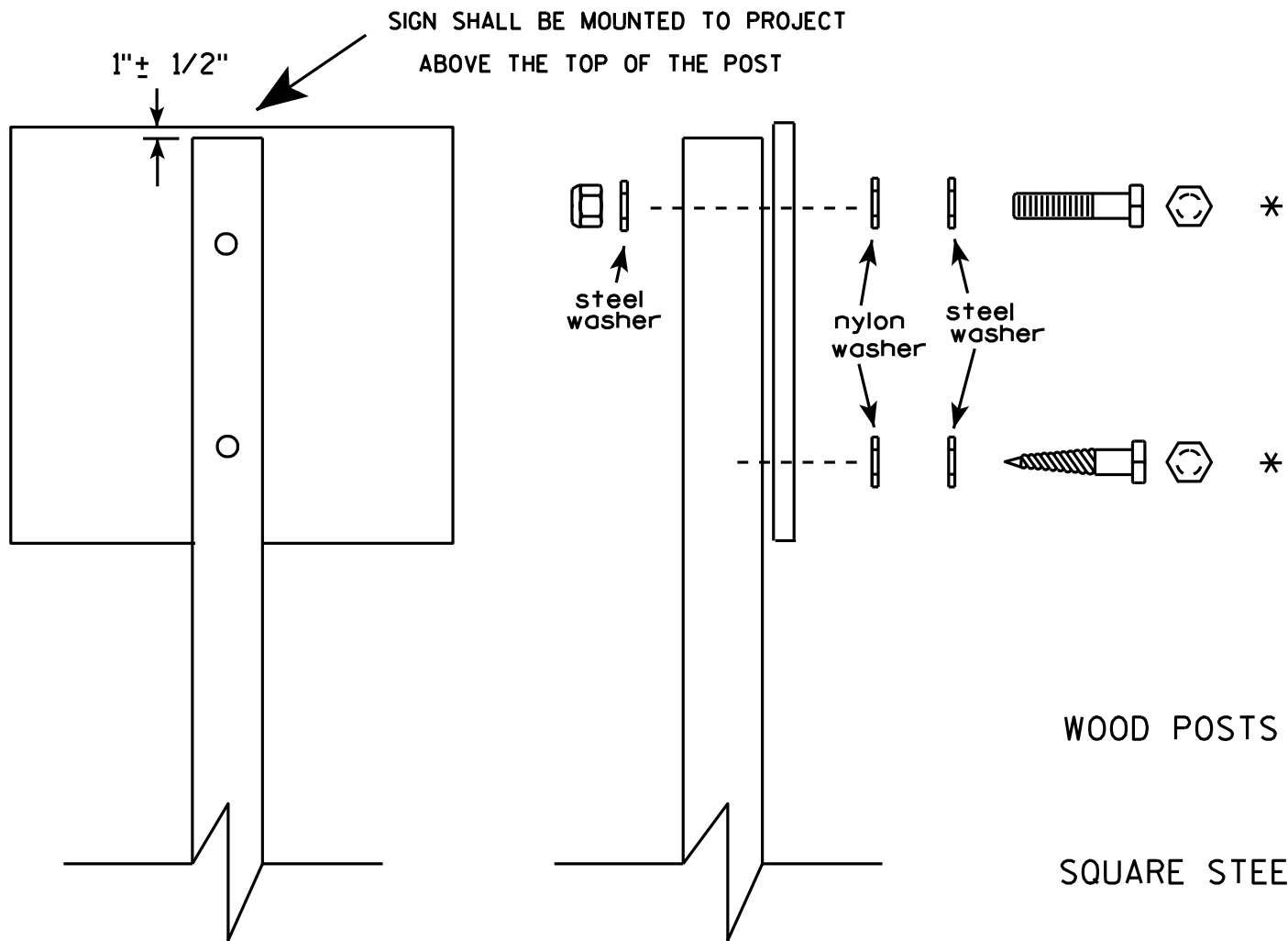
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/21/2011	PLATE NO. A4-4.11

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 66	E
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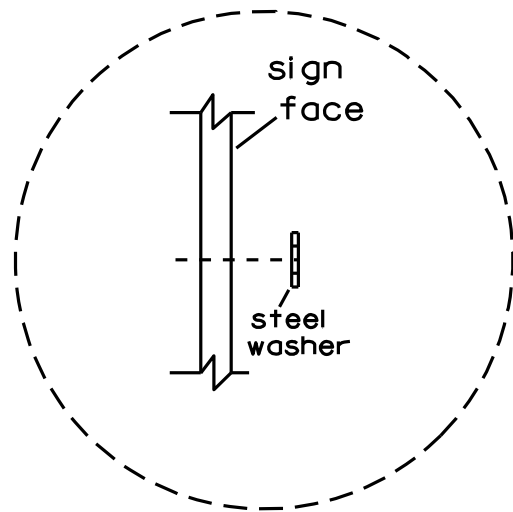


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

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

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

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

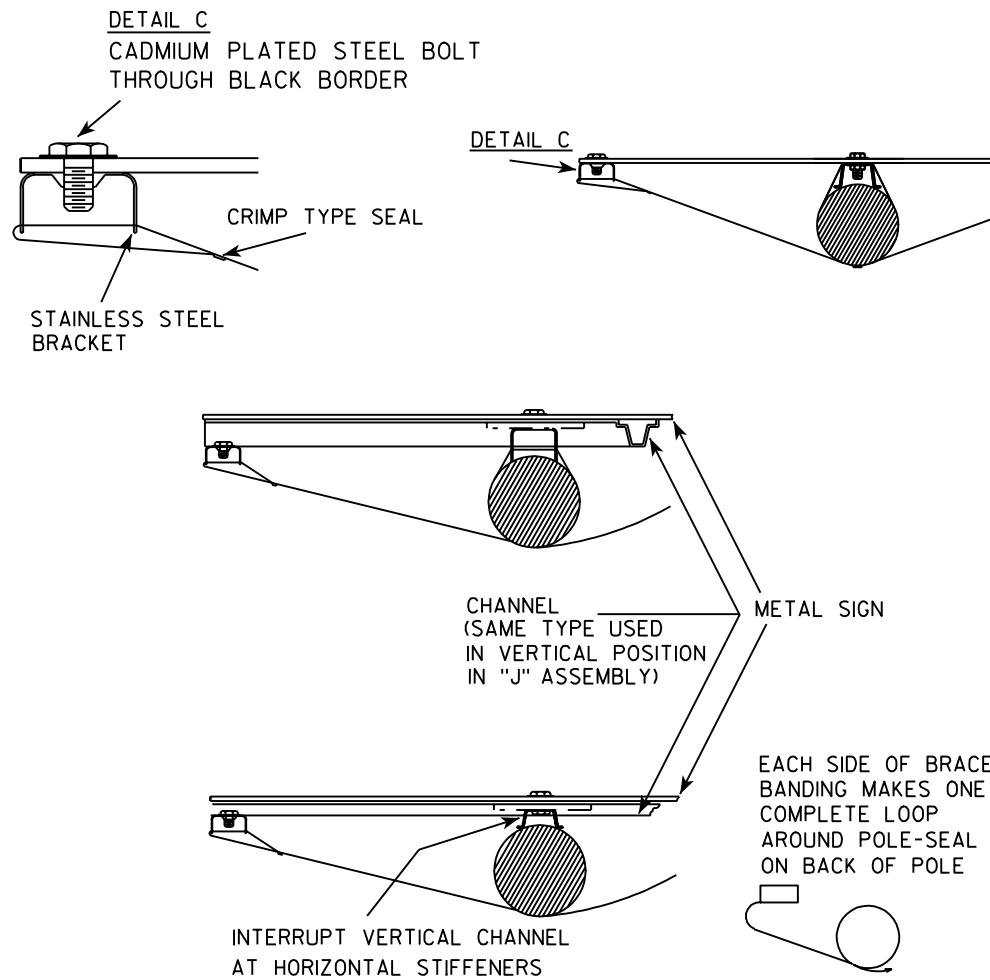


Washer Placement when Sign Has Other Than Type H or Type F Face

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

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

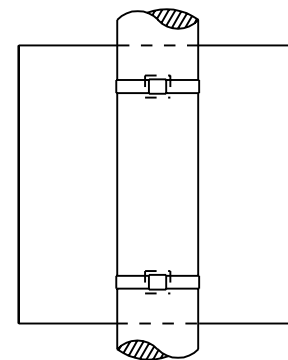
BRACE BANDING



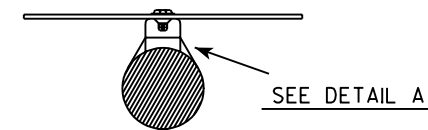
BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY
BUT NOT SO TIGHT AS TO APPRECIABLY
CURVE FACE OF SIGN.

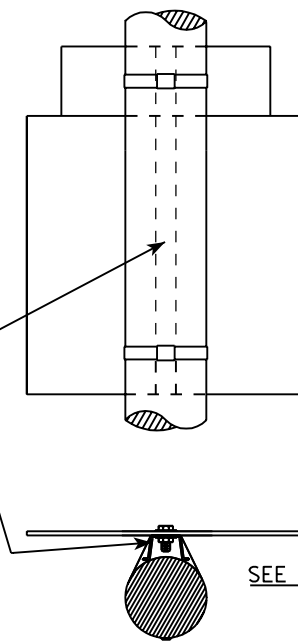
SINGLE SIGN



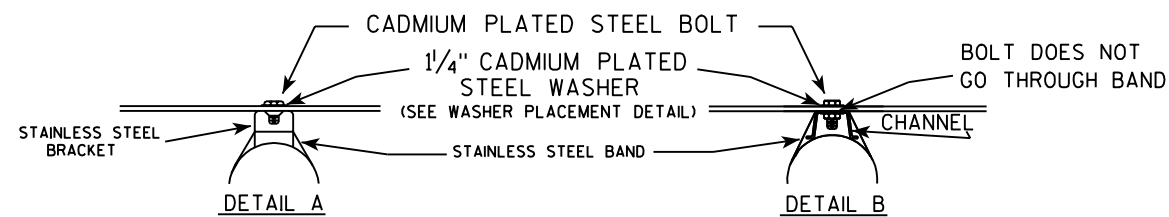
BRACKET BANDING



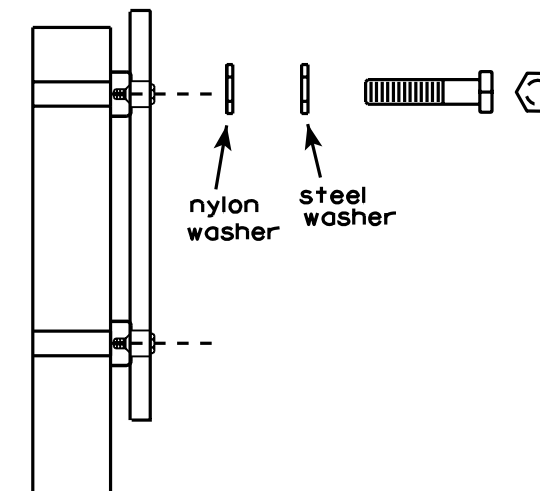
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



WASHER PLACEMENT



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

GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 68

E

7

Metric equivalent
for this sign is:

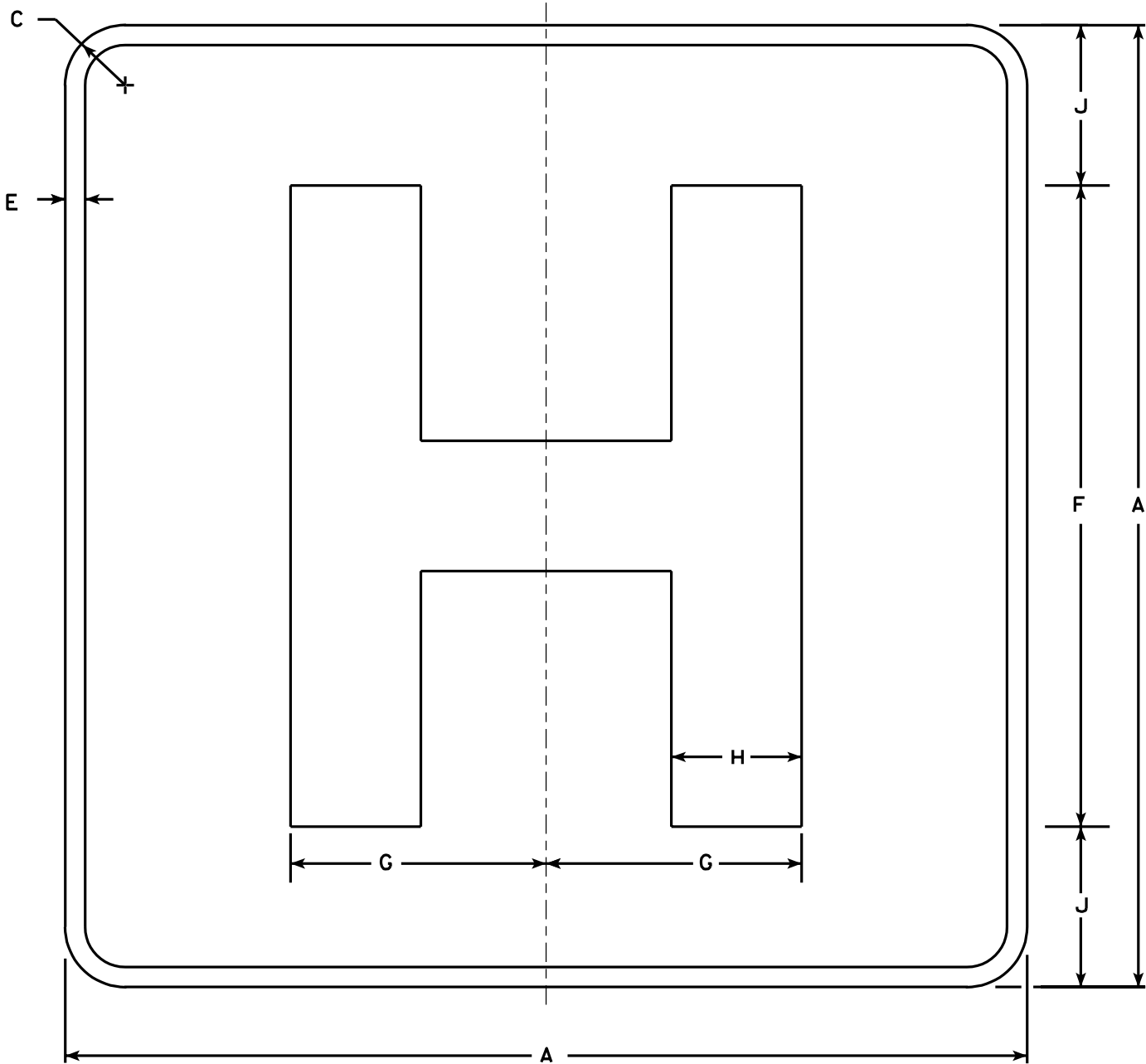
SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

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		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

PROJECT NO:

SHEET NO: 69

E



D9-2

NOTES

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

STANDARD SIGN
D9-2

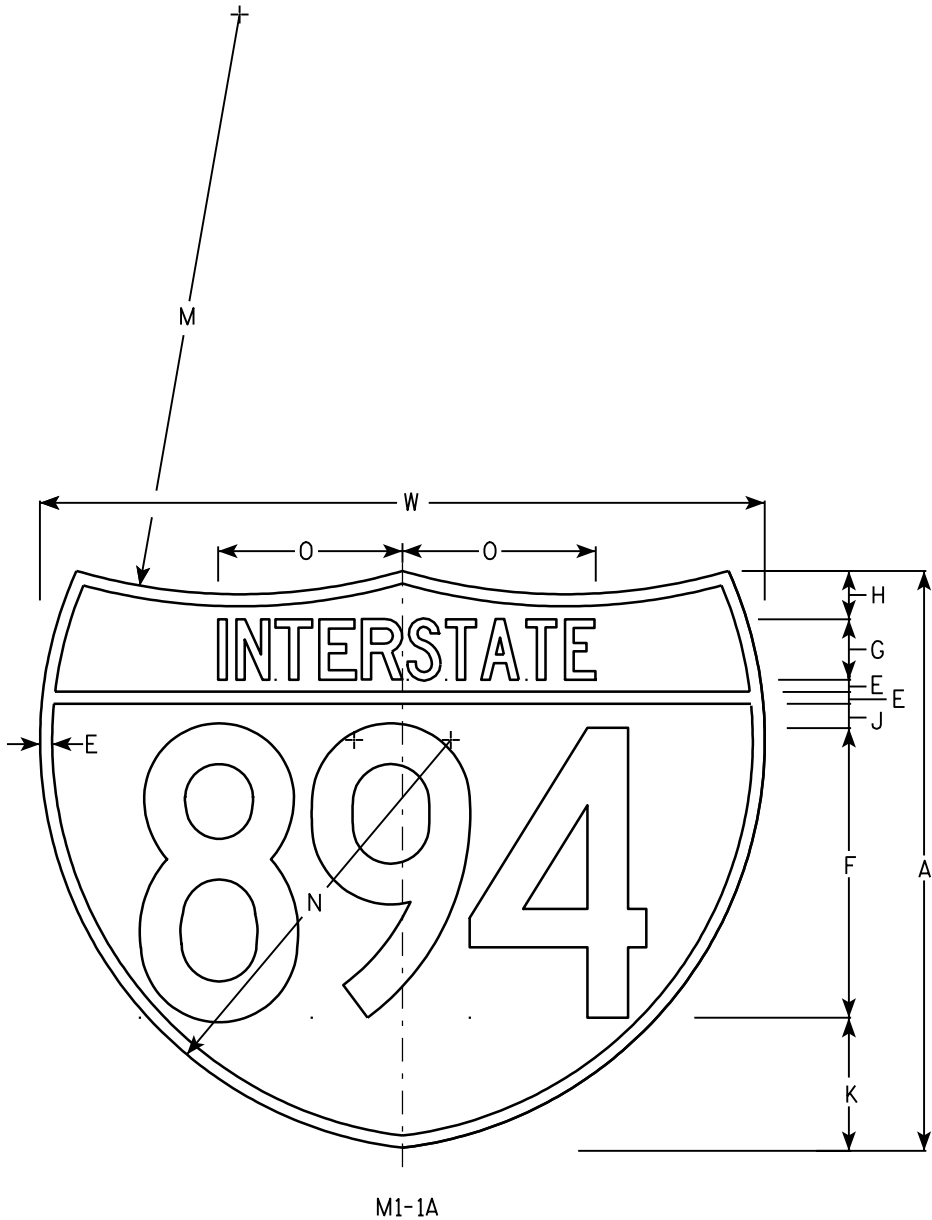
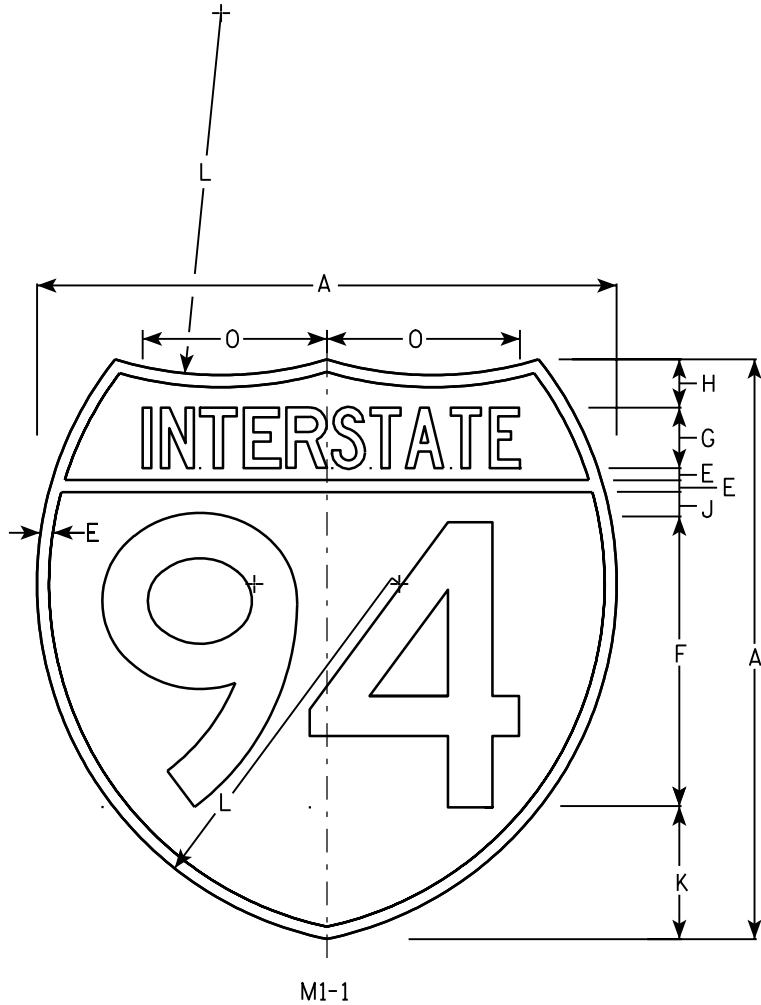
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 1/15/02

PLATE NO. D9-2.4



NOTES

- 1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Top Red - Bottom Blue (See Note 6)
Message - White - See Note 6
- 3. Message Series - See note 5
- 4. Substitute appropriate numerals & adjust spacing as per plate A10-1.
- 5. M1-1 - Numerals - D
Interstate - C
M1-1A - All copy - C
- 6. Permanent Signs
Message - Type H Reflective
Detour or other temporary signs
Background - Reflective
Message - Reflective

Metric equivalent for these signs are:

SIZE	M1 - 1	SIZE	M1 - 1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Area sq. ft.	Area sq. ft.	Area m ²	Area m ²
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 70

E

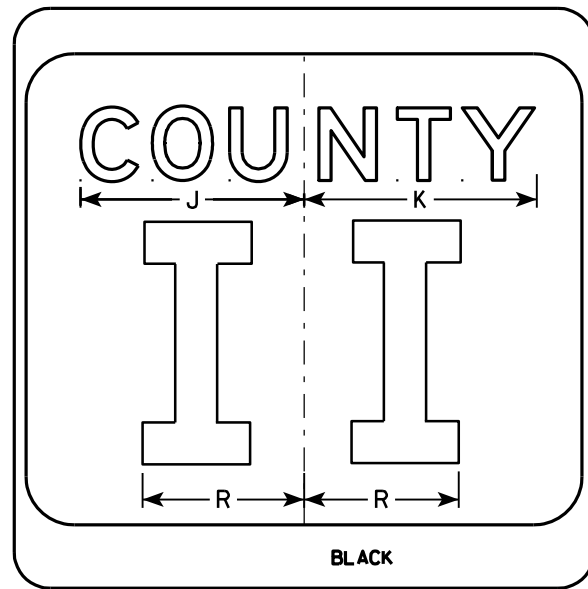
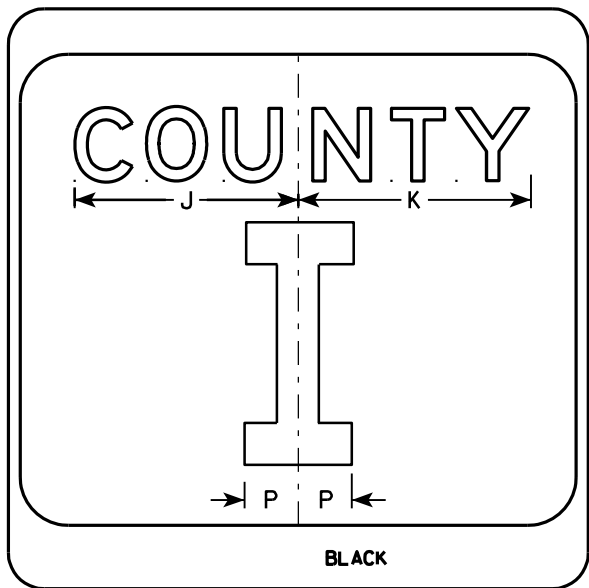
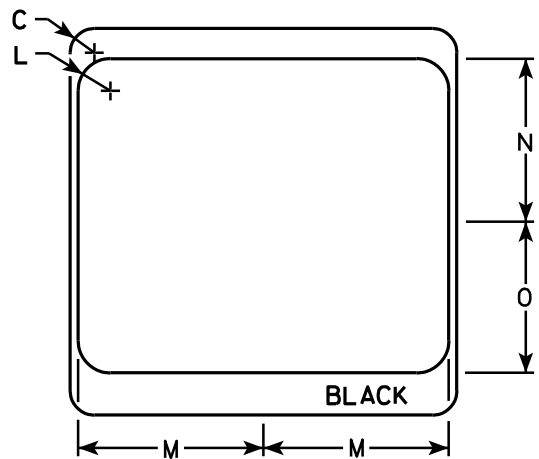
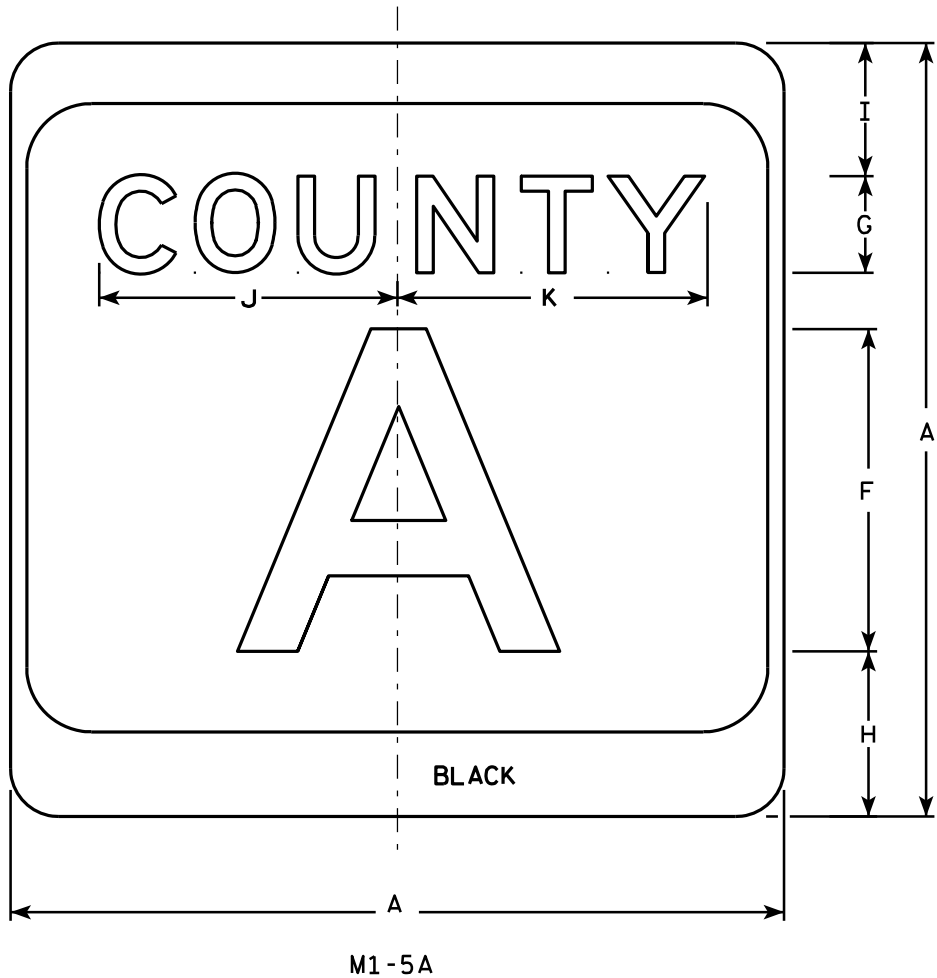
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

7



NOTES

- Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 7
Message - Black
- Message Series - see Note 5
- 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.
- 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.
- Substitute appropriate letters & optically center to achieve proper balance.
- Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective

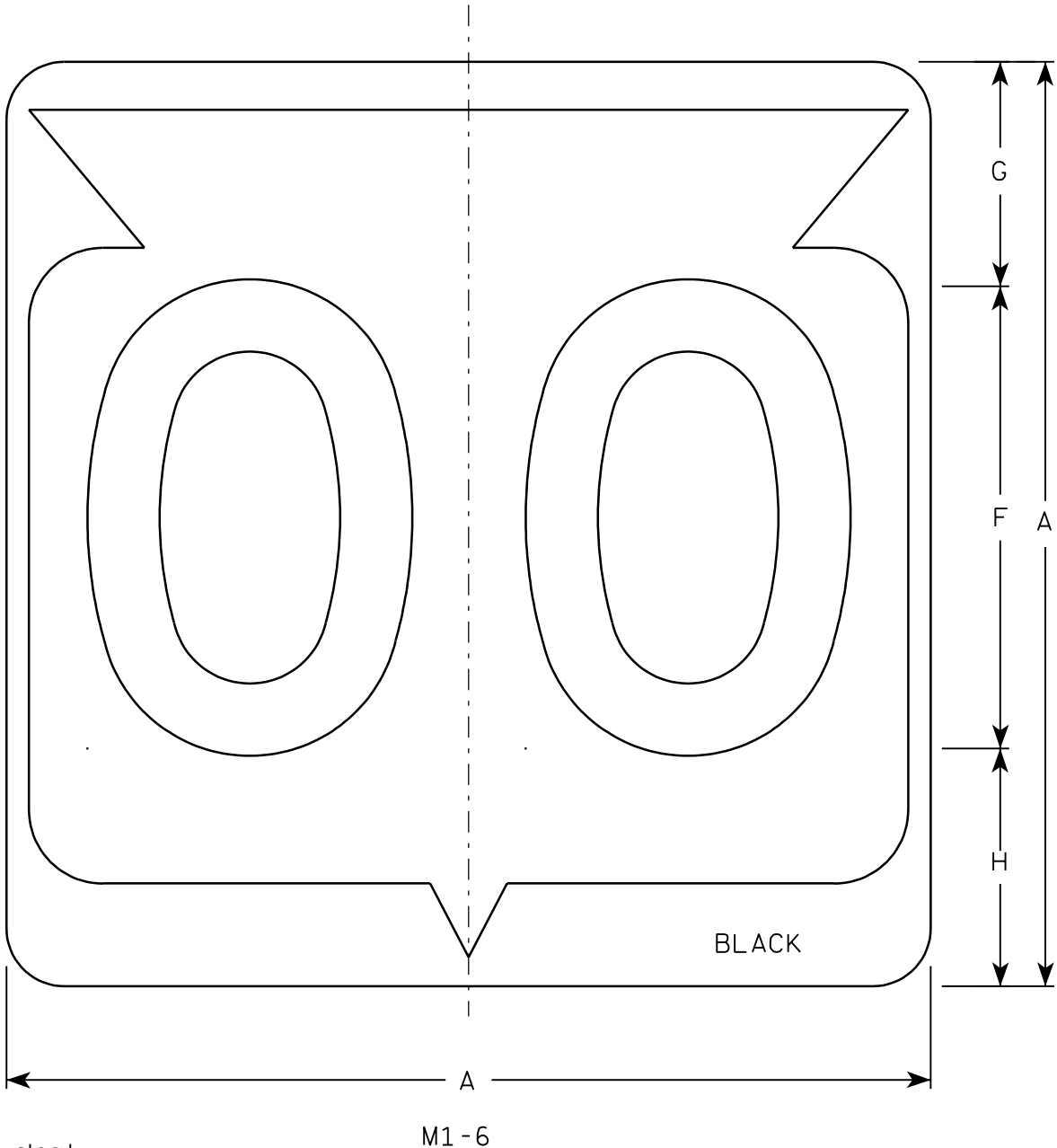
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER	
M1-5A FOR ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/27/11	PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 71	E
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7

7



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 72

E

FILE NAME : C:\Users\Projects\tr_stdp\late\M16.DGN

PLOT DATE : 13-OCT-2005 14:55

PLOT BY : DITJPH

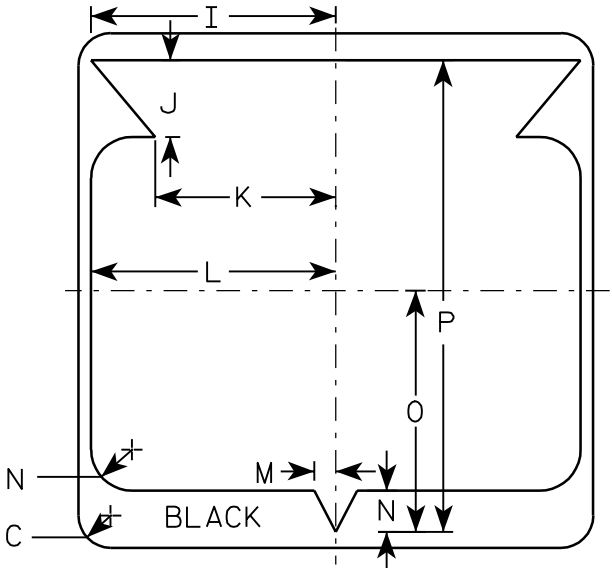
PLOT NAME :

PLOT SCALE : 6.715871:1.000000

WISDOT/CADDs SHEET 42

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

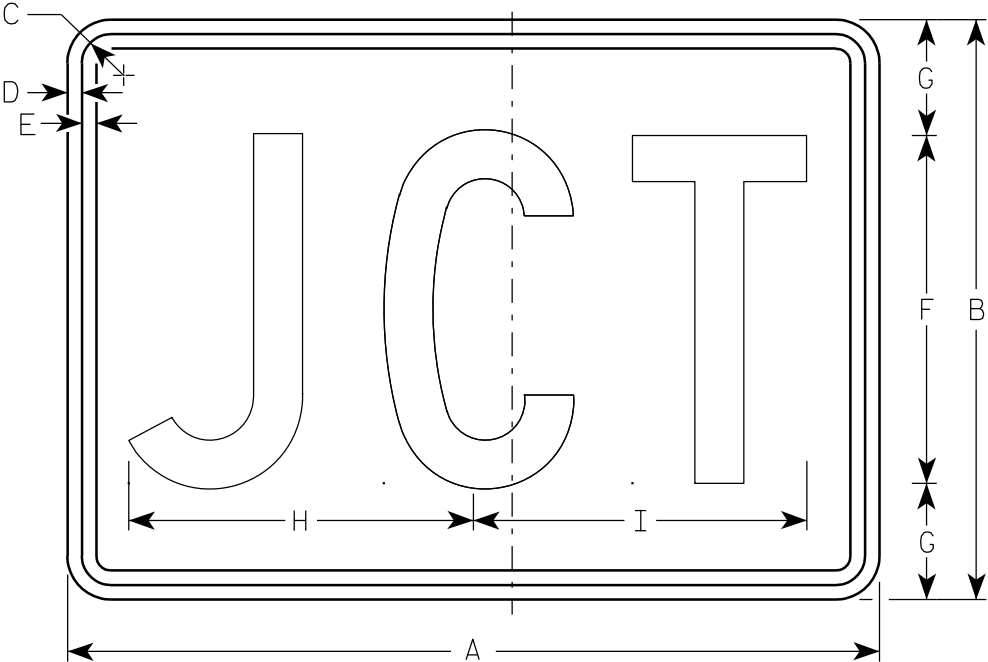
APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

PLATE NO. M1-6.9

7



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

Metric equivalent
for this sign is:

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

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

PROJECT NO:

HWY:

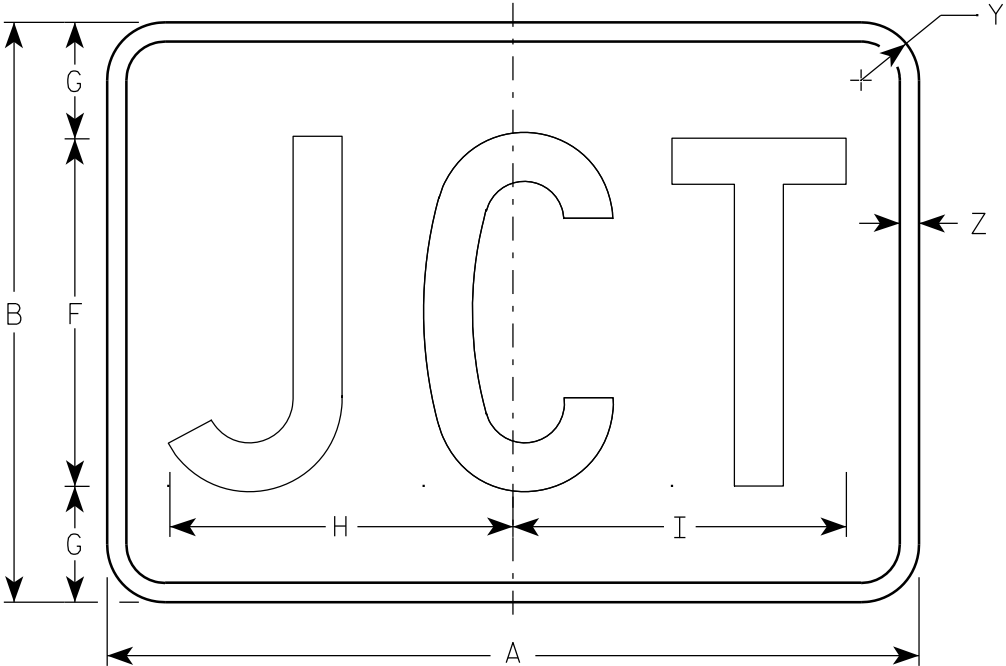
COUNTY:

SHEET NO: 73

E

NOTES

1. Sign is Type II - See Note 5 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. M2-1 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB2-1 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG2-1 Background - Green
Message - White - Type H Reflective
MK2-1 Background - Green
Message - White - Type H Reflective
MM2-1 Background - White - Type H Reflective
Message - Green
MN2-1 Background - Brown
Message - White - Type H Reflective
MR2-1 Background - Brown
Message - Yellow - Type H Reflective



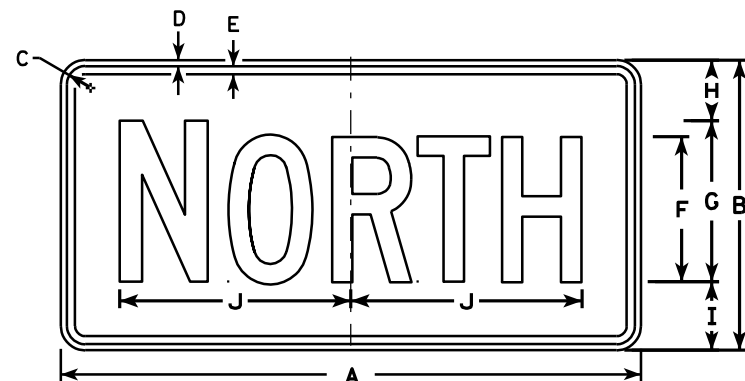
MB2-1
MG2-1
MN2-1

STANDARD SIGN
M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

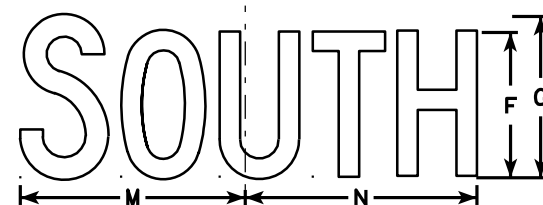
DATE 3/16/10 PLATE NO. M2-1.10



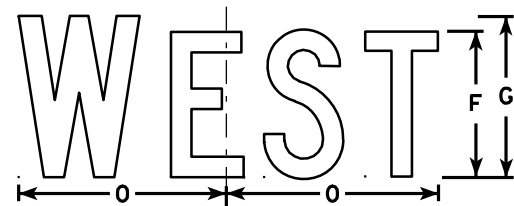
M3-1
MK3-1
M03-1



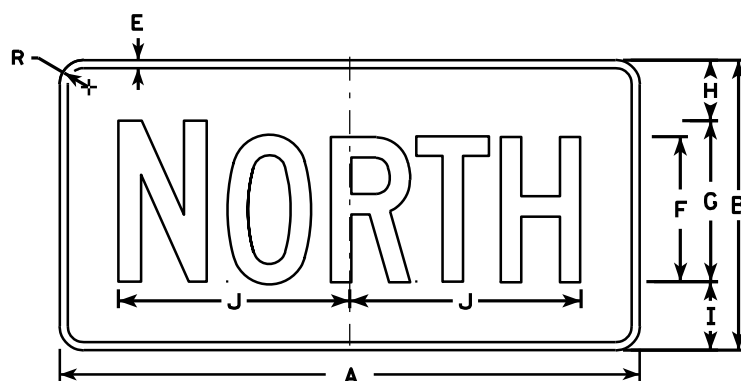
M3-2
MK3-2
M03-2



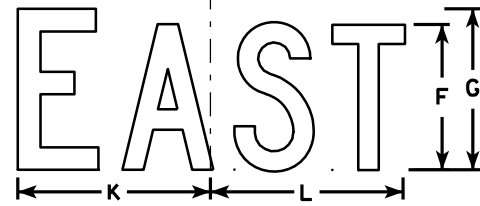
M3-3
MK3-3
M03-3



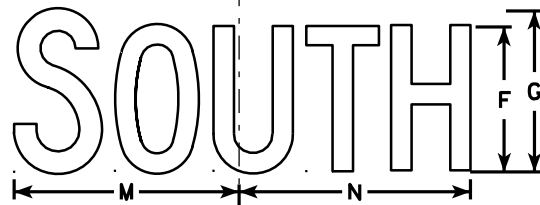
M3-4
MK3-4
M03-4



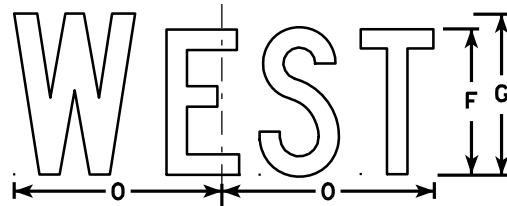
MB3-1
MG3-1
MM3-1
MN3-1



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



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



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

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective)
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White - Type H Reflective (Detour or temporary signs - Reflective)
MG3-1 thru MG3-4 Background - Green
Message - White - Type H Reflective
MK3-1 thru MK3-4 Background - Green
Message - White - Type H Reflective
MM3-1 thru MM3-4 Background - White - Type H Reflective
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White - Type H Reflective
M03-1 thru M03-4 Background - Orange - Reflective
Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: 74 E

STANDARD SIGNS M3-1 thru M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

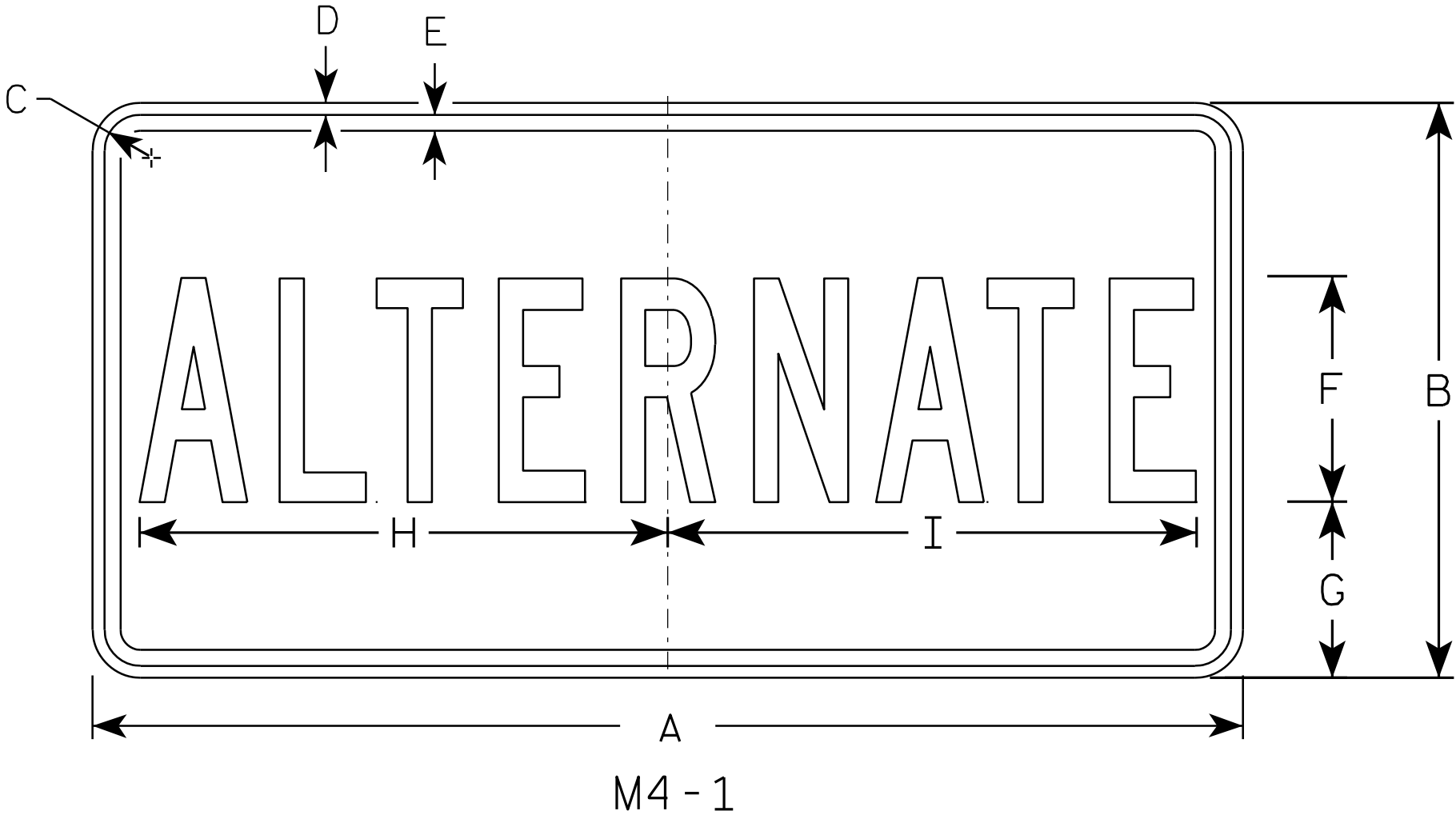
DATE 11/10/10 PLATE NO. M3-1.12

NOTES

1. Sign is Type II - See Note 5 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See Note 5
Message - See note 5
3. Message Series - 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.
5. M4-1 Background - White - Type H Reflective
Message - Black

MB4-1 Background - Blue
Message - White - Type H Reflective

M04-1 Background - Orange - Reflective
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	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	4	4	9 3/4	9 1/2																		2.00
3	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5

STANDARD SIGN
M4 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-1.7

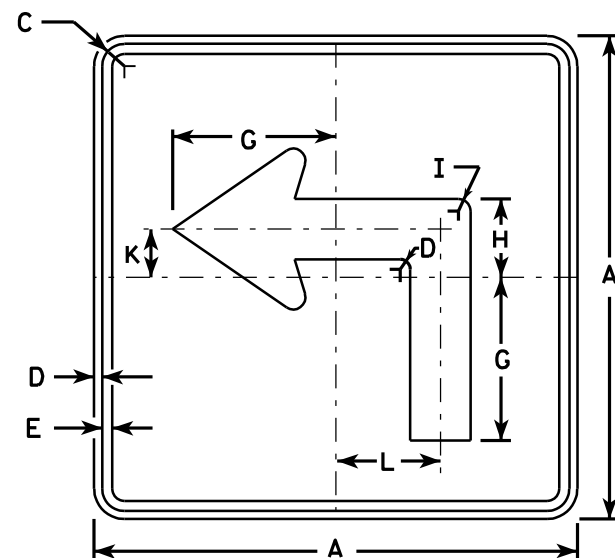
PROJECT NO:

HWY:

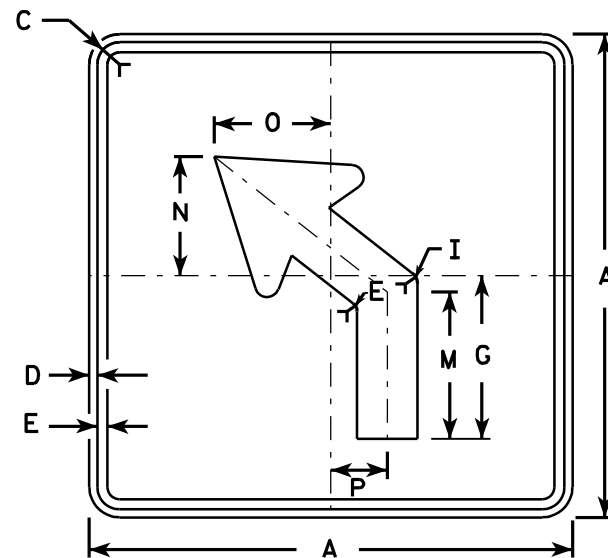
COUNTY:

SHEET NO: 75

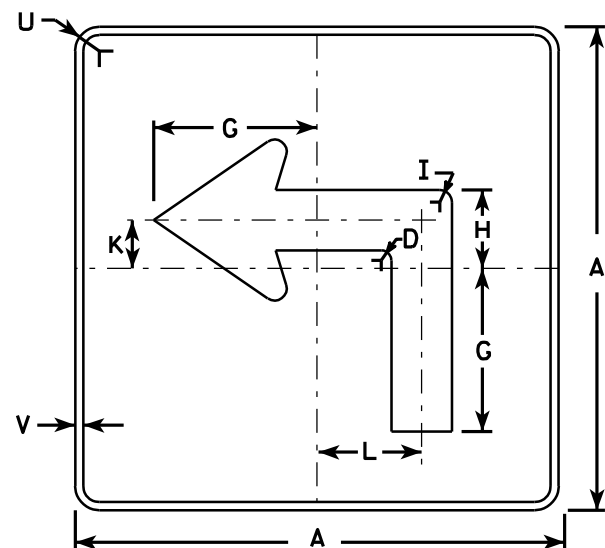
E



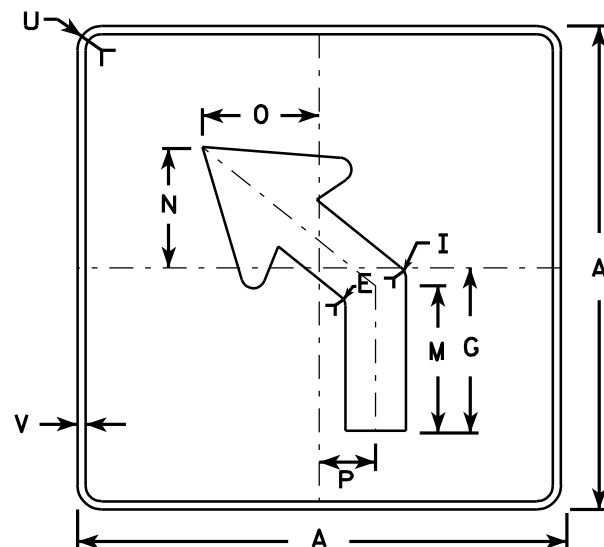
M5-1L
MK5-1L
MM5-1L
MO5-1L
MR5-1L



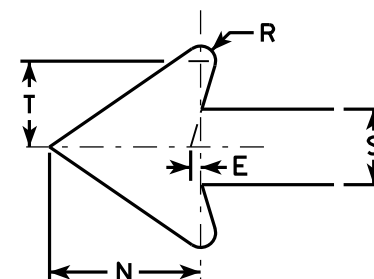
M5-2L
MK5-2L
MM5-2L
MO5-2L
MR5-2L



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



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



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 76	E
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NOTES

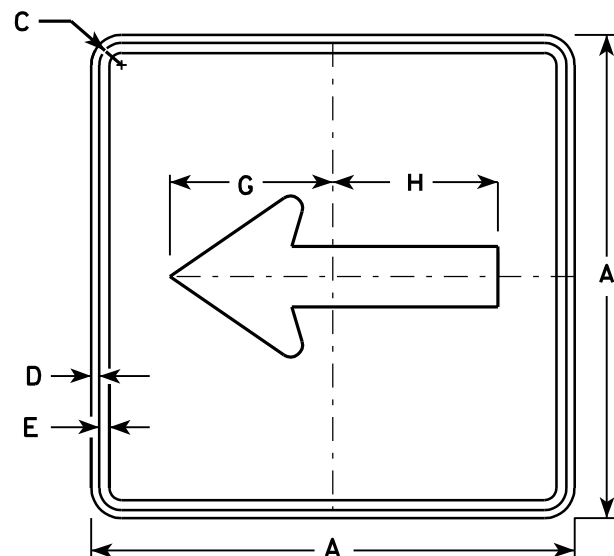
- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
Message - Black
MB5-1 and MB5-2 Background - Blue
Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
MG5-1 and MG5-2 Background - Green
Message - White - Type H Reflective
MK5-1 and MK5-2 Background - Green
Message - White Type H Reflective
MM5-1 and MM5-2 Background - White - Type H Reflective
Message - Green
MN5-1 and MN5-2 Background - Brown
Message - White - Type H Reflective
MO5-1 and MO5-2 Background - Orange - Reflective
Message - Black
MR5-1 and MR5-2 Background - Brown
Message - Yellow - Type H Reflective
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

STANDARD SIGN
M5-1 & M5-2

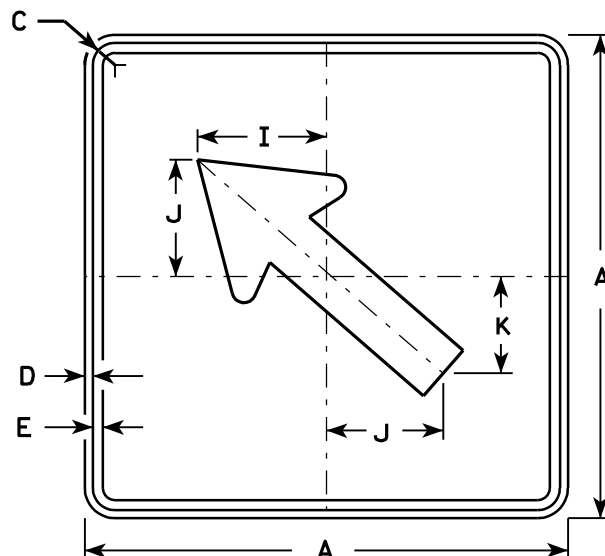
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

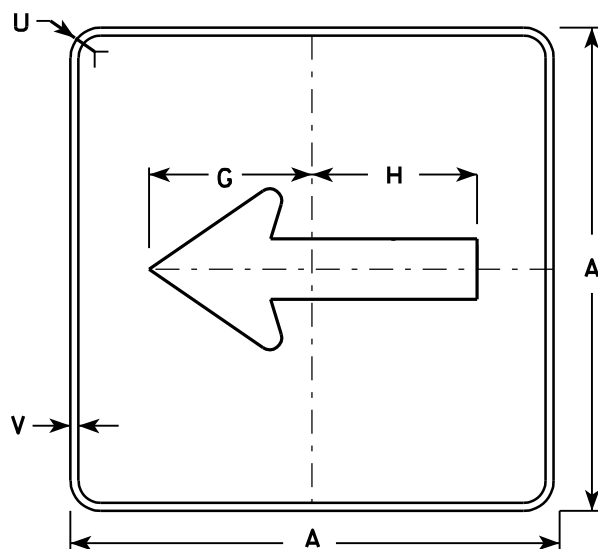
DATE 3/16/10 PLATE NO. M5-1.11



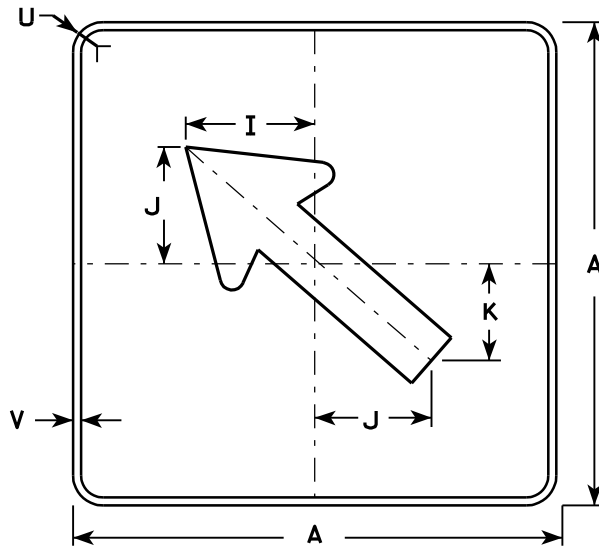
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



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



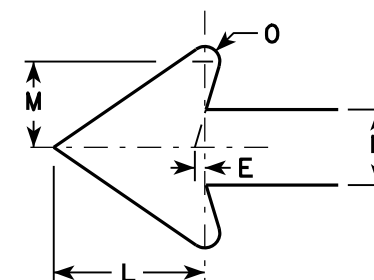
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-1 and M6-2 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG6-1 and MG6-2 Background - Green
Message - White - Type H Reflective
MK6-1 and MK6-2 Background - Green
Message - White - Type H Reflective
MM6-1 and MM6-2 Background - White - Type H Reflective
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White - Type H Reflective
MO6-1 and MO6-2 Background - Orange - Reflective
Message - Black
MR6-1 and MR6-2 Background - Brown
Message - Yellow - Type H Reflective

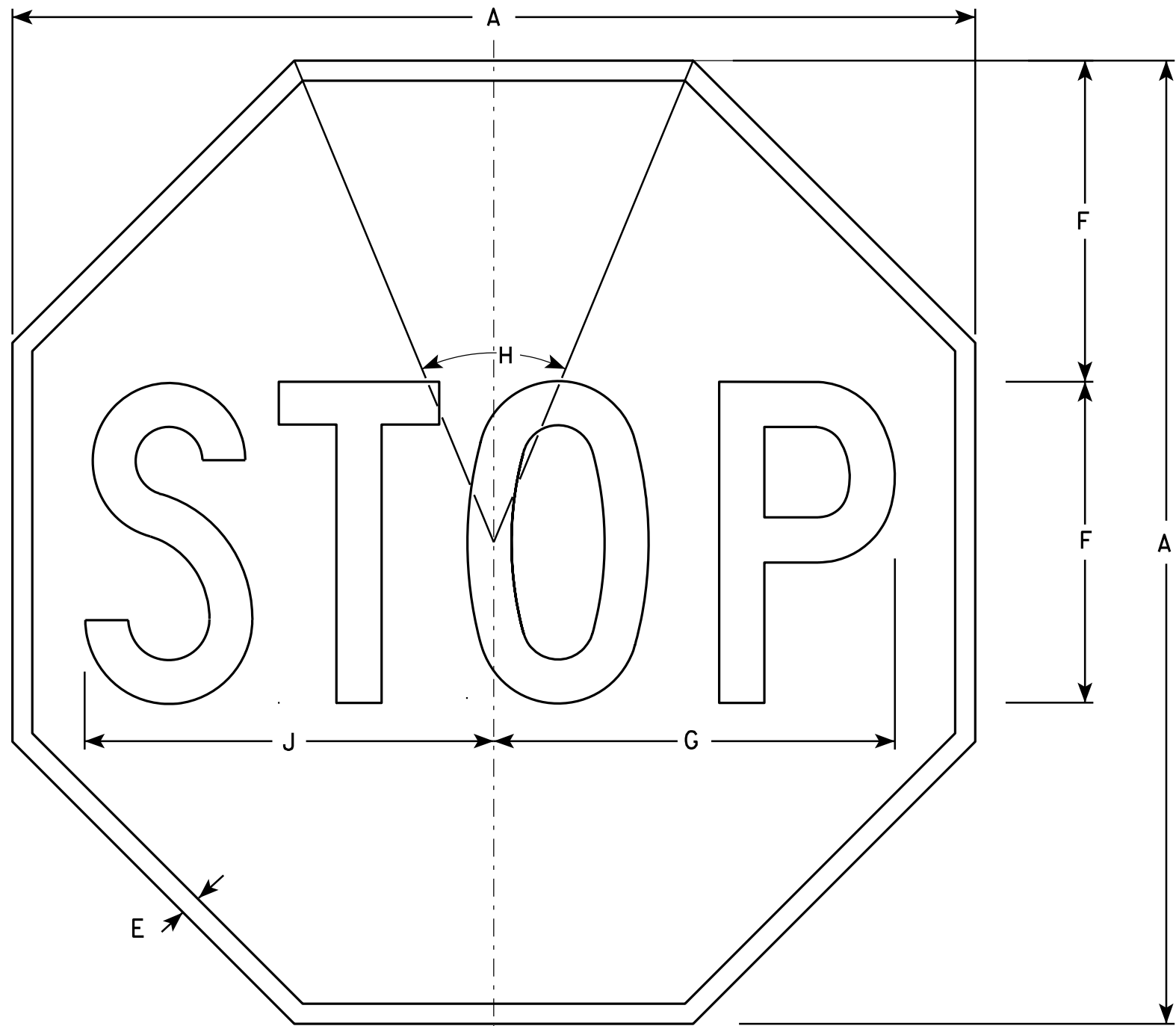


Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

PROJECT NO: HWY: COUNTY: SHEET NO: 77 E



NOTES

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

R1-1

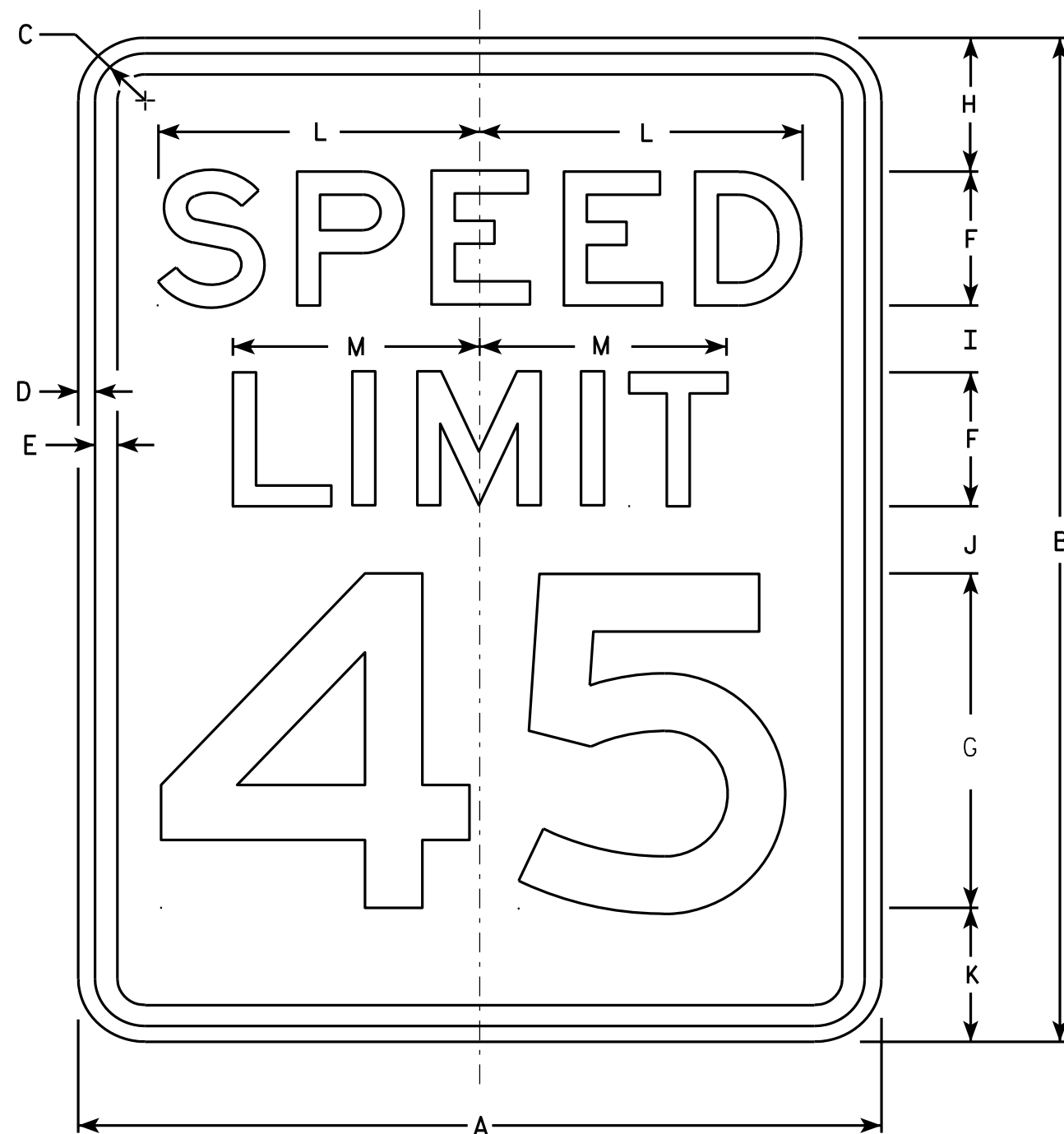
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 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 12/03/10 PLATE NO. R1-1.12



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.

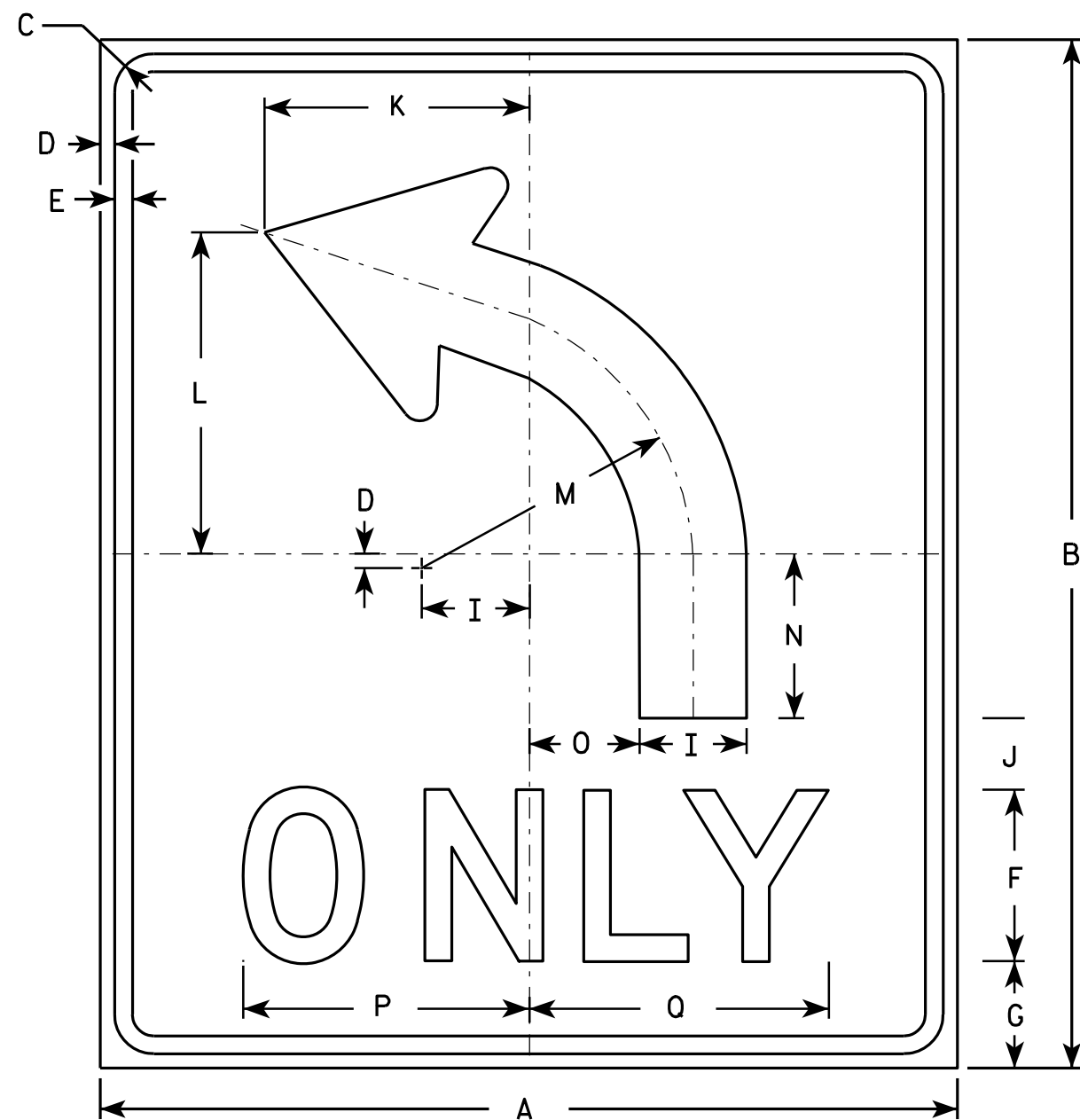
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	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: 79 E

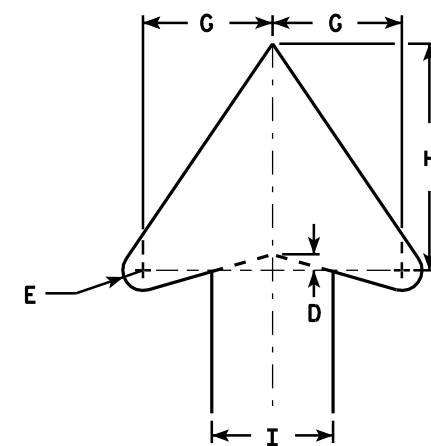
7



R3-50L

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. R3-50R is the same as R3-50L except curved portion of arrow points right.



ARROW DETAIL

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	30	36	1 3⁄8	1⁄2	5⁄8	6	4	7	3 3⁄4	2 1⁄2	9 1⁄4	11 1⁄4	9 1⁄2	5 3⁄4	3 7⁄8	10	10 1⁄2										7.5
2M	30	36	1 3⁄8	1⁄2	5⁄8	6	4	7	3 3⁄4	2 1⁄2	9 1⁄4	11 1⁄4	9 1⁄2	5 3⁄4	3 7⁄8	10	10 1⁄2										7.5
3																											
4																											
5																											

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 80	E
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STANDARD SIGN
R3-50

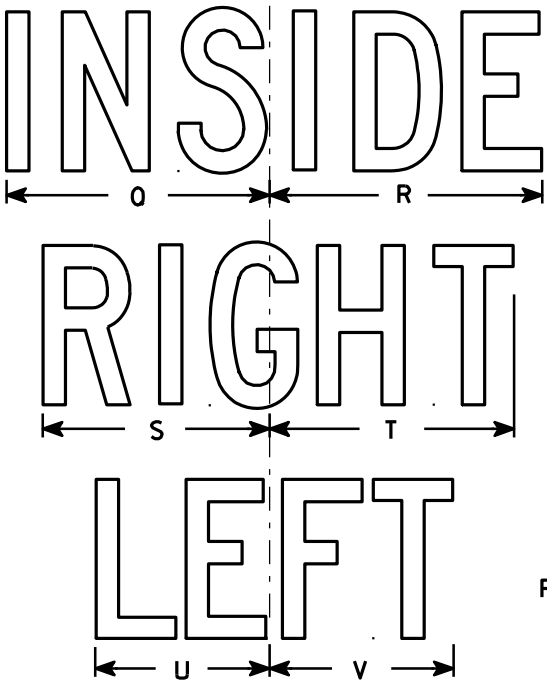
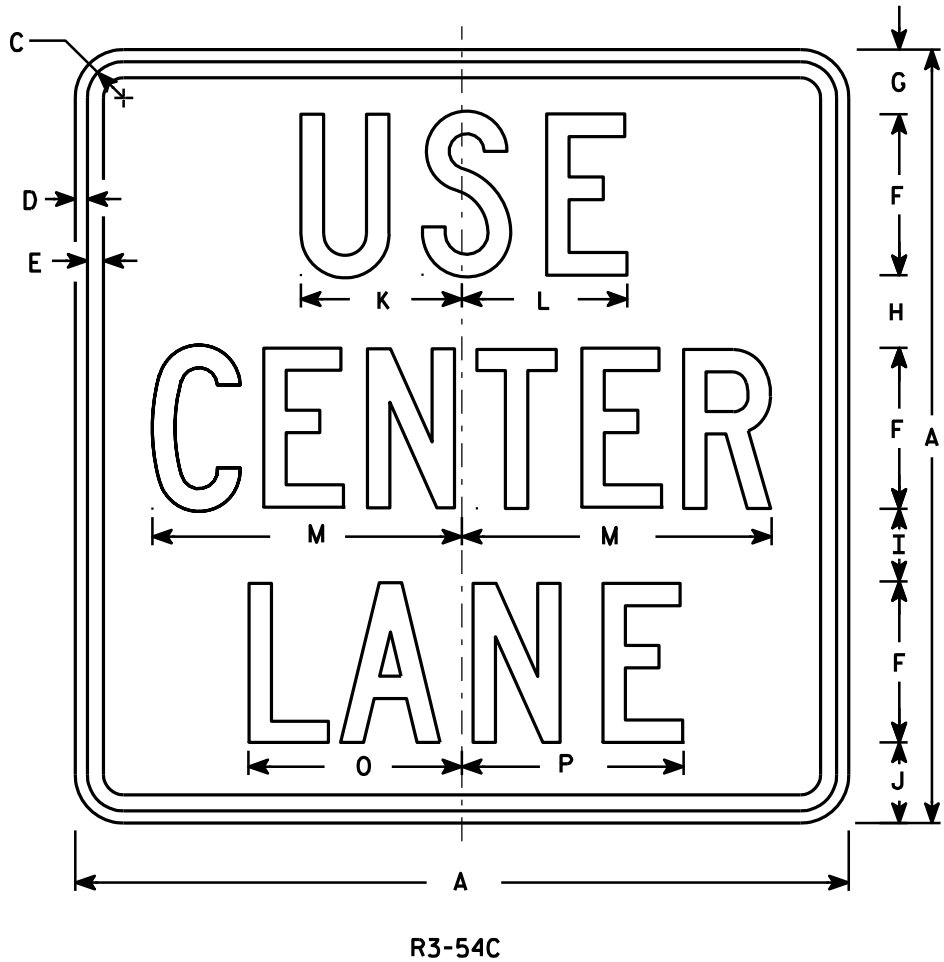
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50.2

NOTES

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



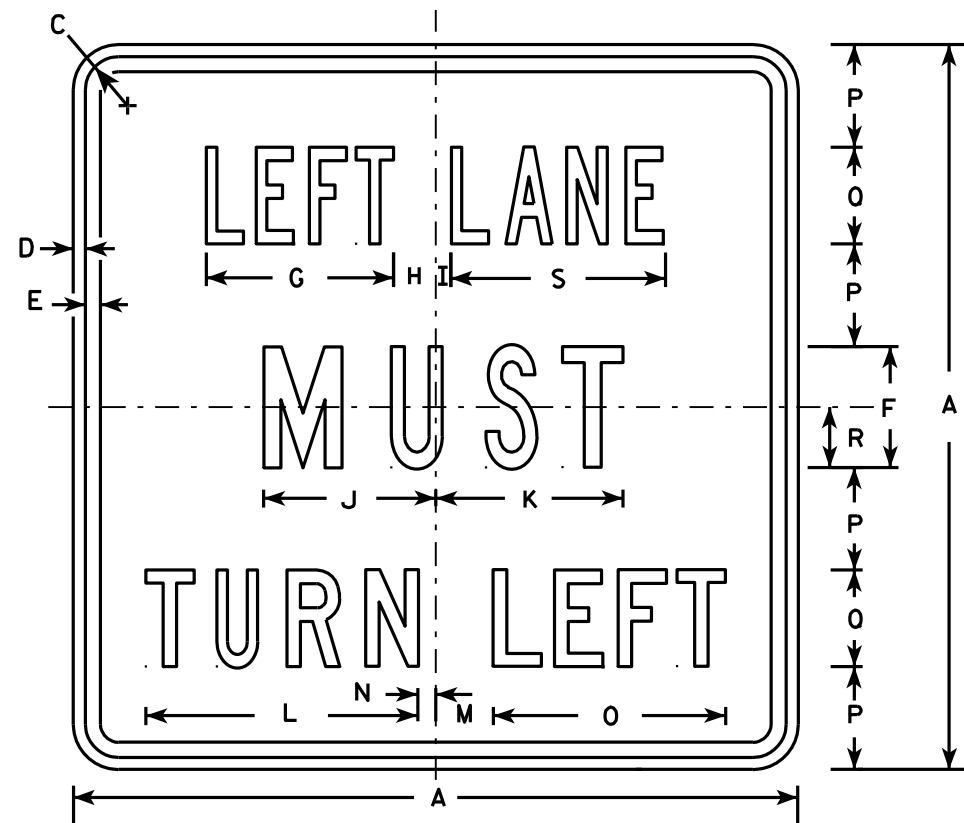
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	9 5/8		6 5/8	6 7/8	8 1/8	8 1/2	7	7 5/8	5 3/8	5 3/4					4.0
2M	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	9 5/8		6 5/8	6 7/8	8 1/8	8 1/2	7	7 5/8	5 3/8	5 3/4					4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	14 3/8		9 7/8	10 1/4	12 1/8	12 3/4	10 3/8	11 3/8	8	8 5/8					9.0
4																											
5																											

STANDARD SIGN
R3-54C, I ,L & R

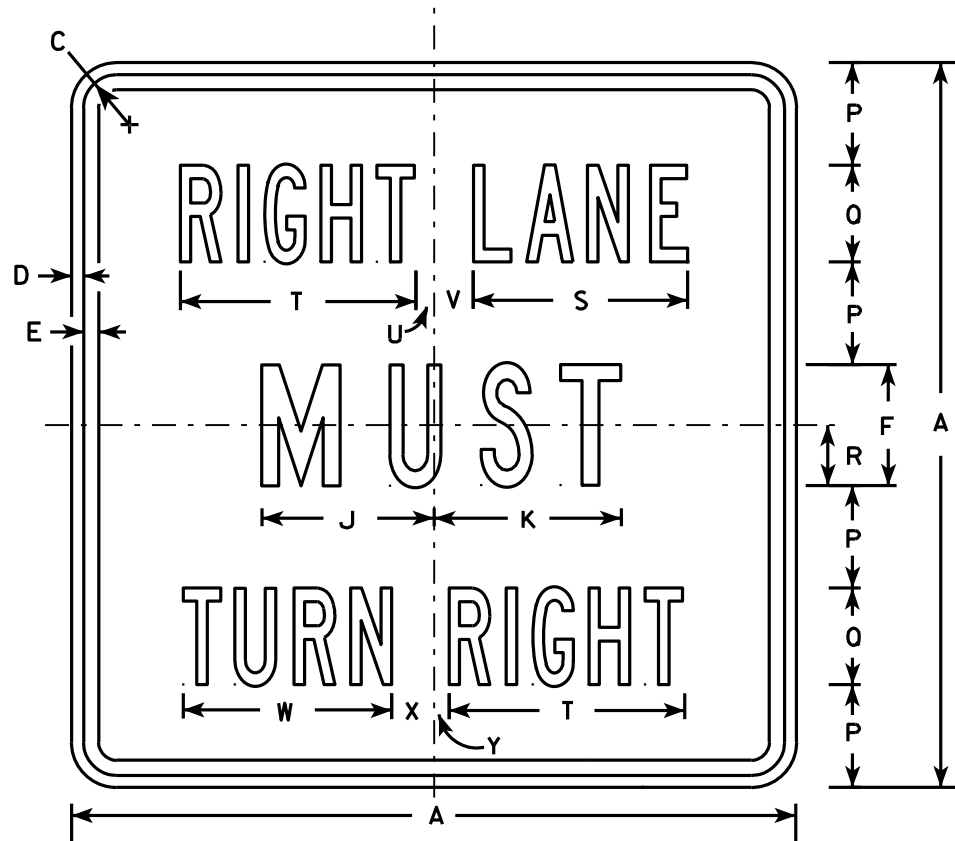
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-54.8



R3-7L



R3-7R

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 - Line 1 is Series B.
Line 2 is Series C.
Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
- 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	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 82

E

STANDARD SIGN
R3-7L & R3-7R

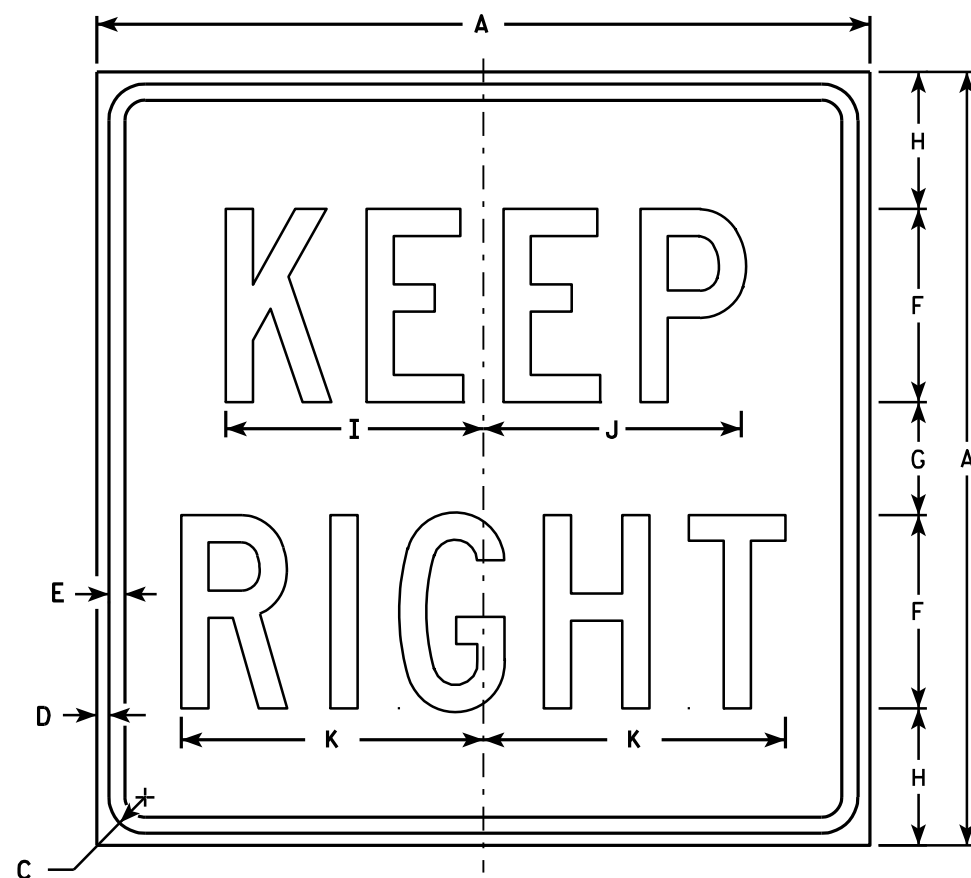
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

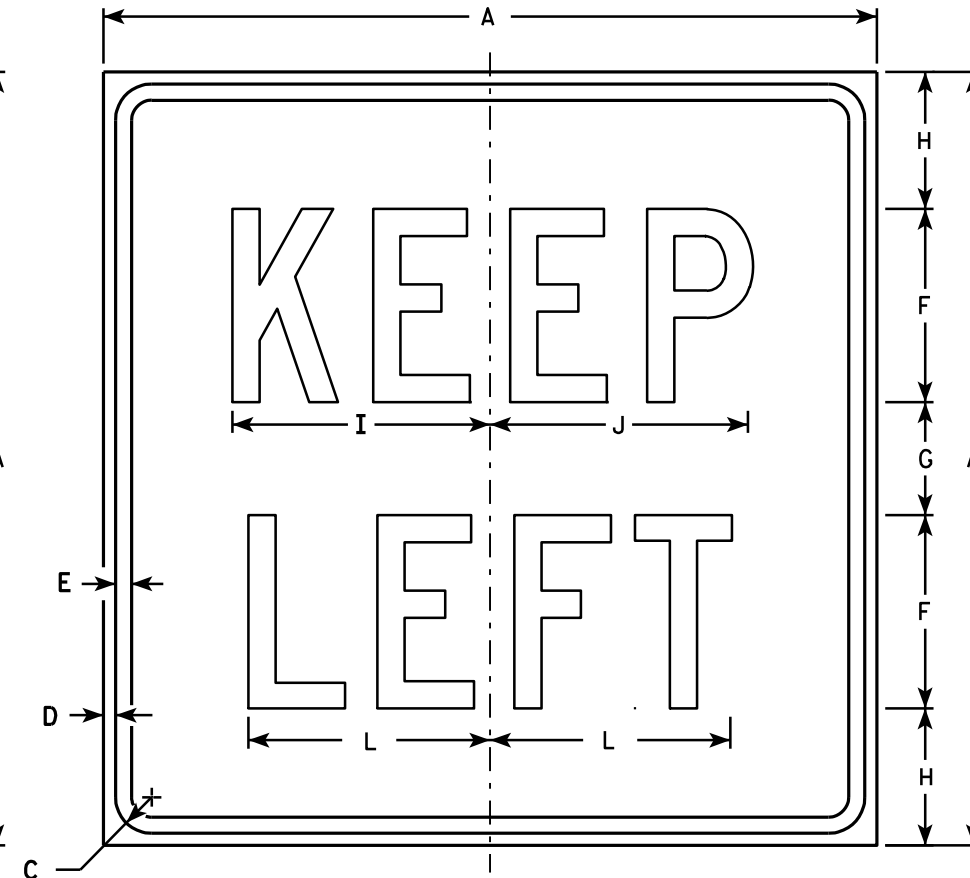
DATE 3/18/2011 PLATE NO. R3-7.3

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 - 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.



R4-52R



R4-52L

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	5	2	3	6 3/4	6 5/8	7 1/2	6 1/4															2.25
2S	24		1 1/8	3/8	1/2	6	3 1/2	4 1/4	8	8	9 3/8	7 1/2															4.0
2M	24		1 1/8	3/8	1/2	6	3 1/2	4 1/4	8	8	9 3/8	7 1/2															4.0
3	36		1 5/8	5/8	3/4	10	5	5 1/2	13 1/2	13 3/8	14 1/2	12 1/2															9.0
4																											
5																											

STANDARD SIGN R4-52R & R4-52L

WISCONSIN DEPT OF TRANSPORTATION

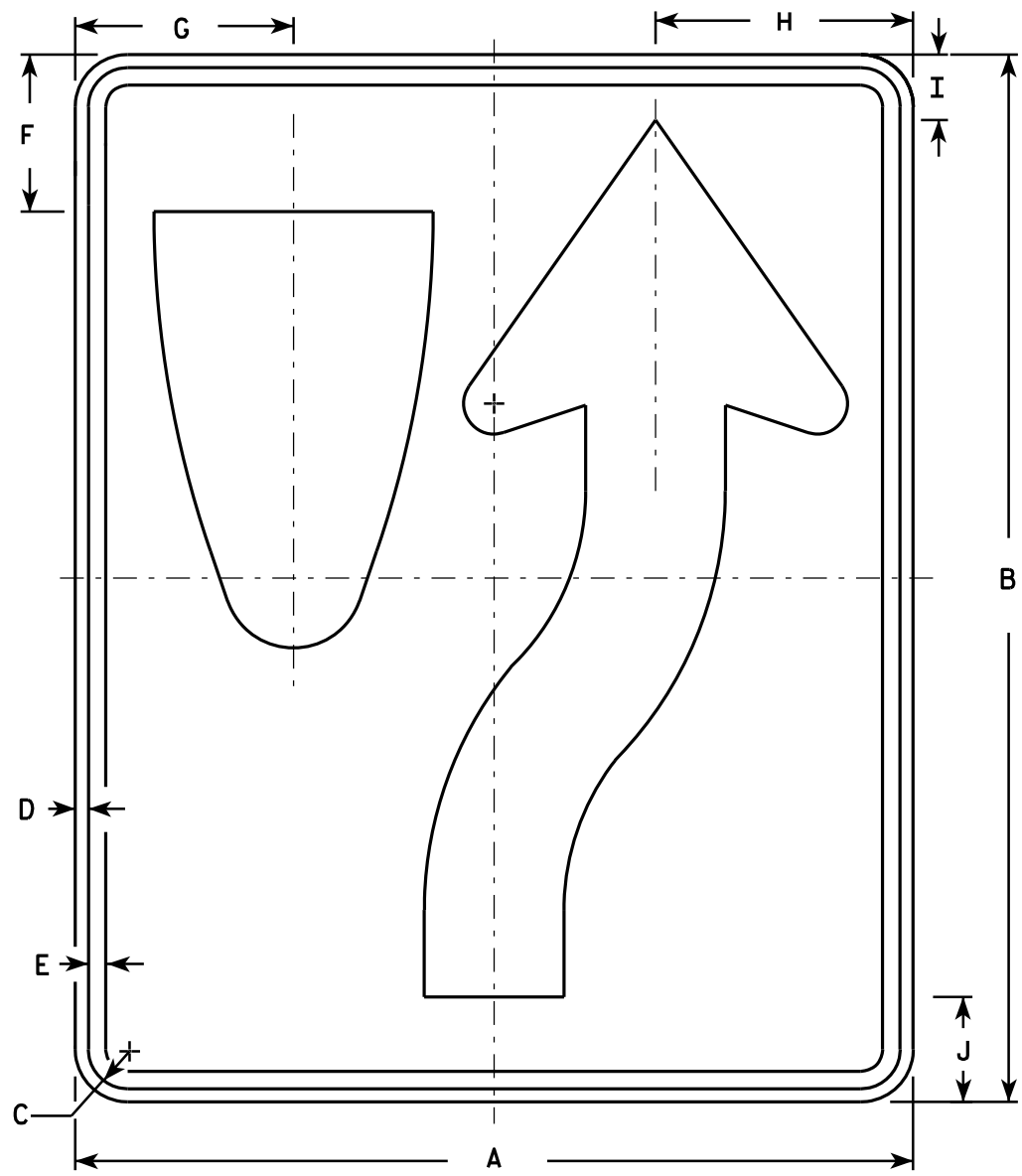
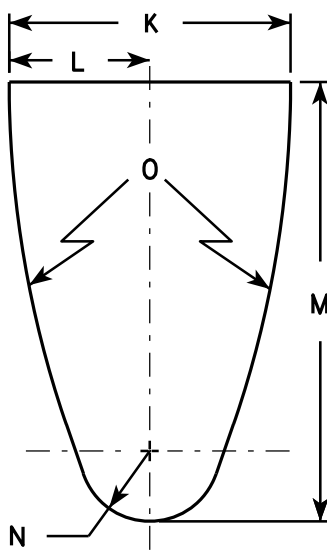
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-52.6

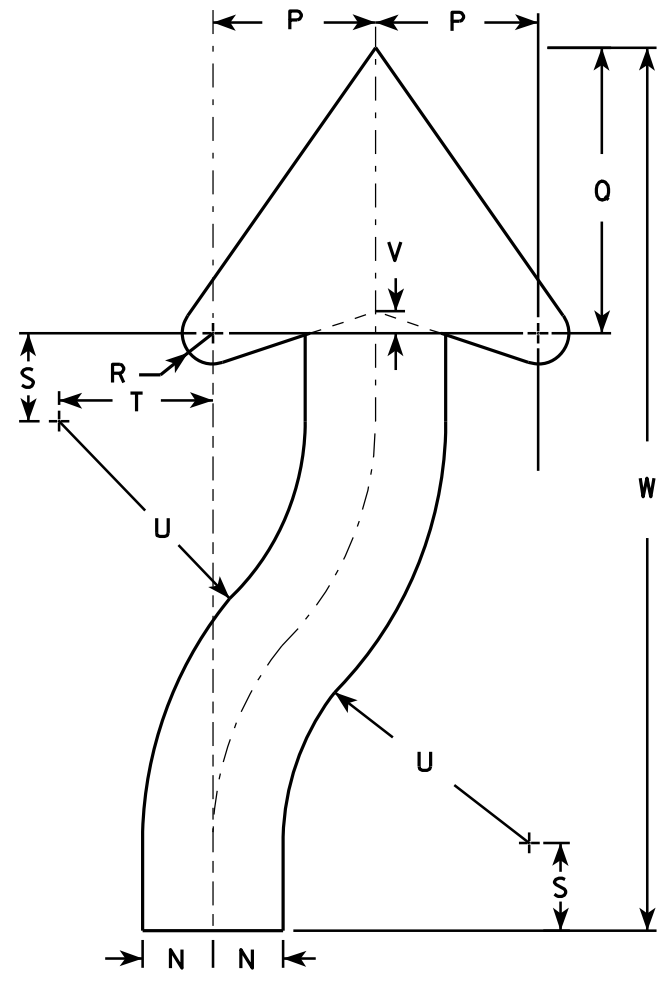
PROJECT NO: HWY: COUNTY: SHEET NO: 83 E

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.



R4-7



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	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

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 84

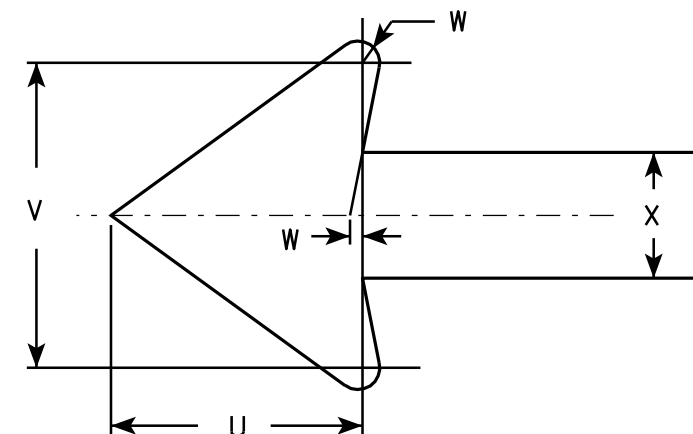
E



R7-1

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 - Red
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. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
R7-1L (left arrow)
R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

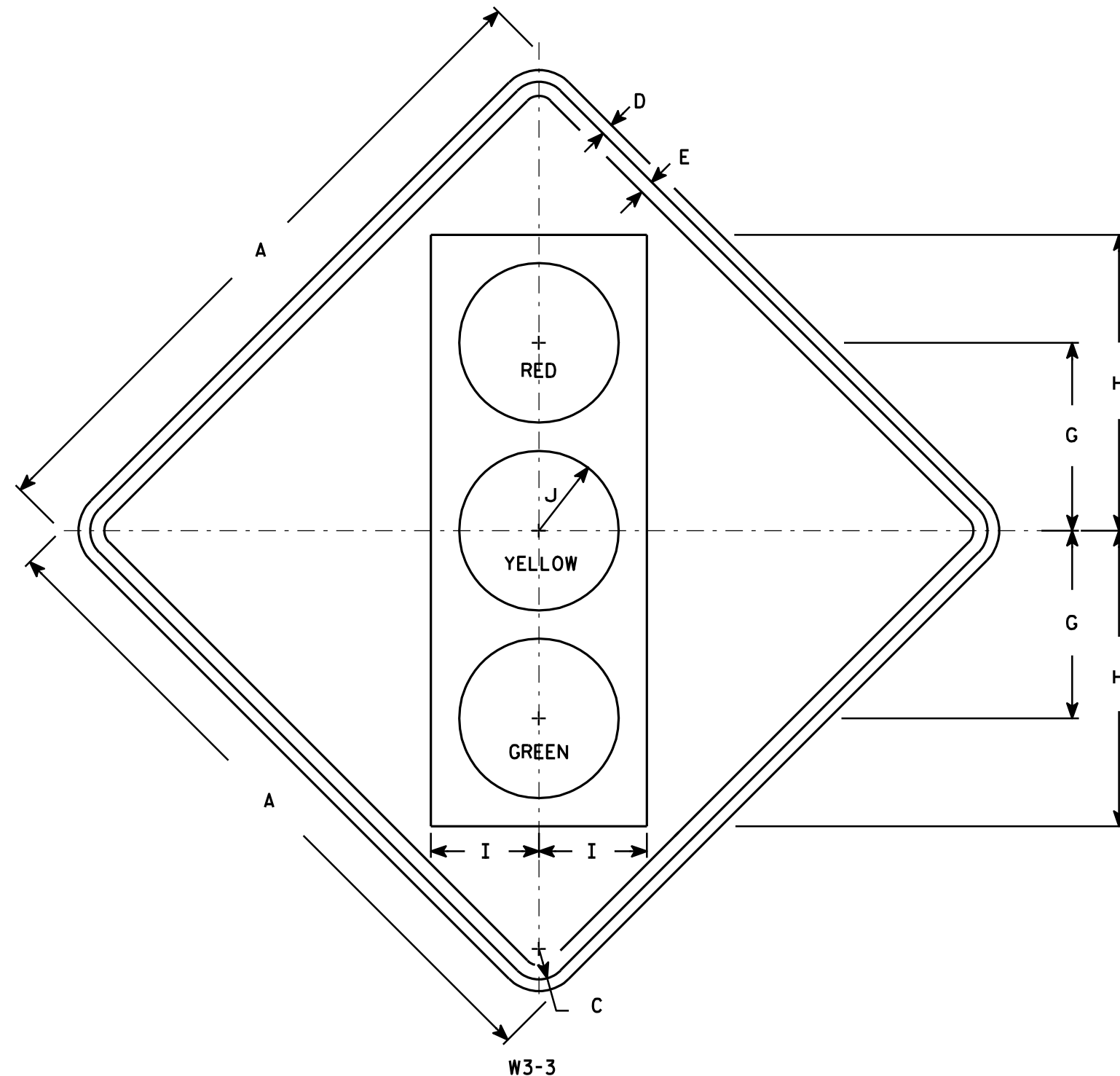
STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

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



NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Yellow
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.
- Symbol and border are non-reflective black.
Top circle - Type H Reflectorized Red
Center circle - Same as background
Bottom circle - Type H Reflectorized Green

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		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

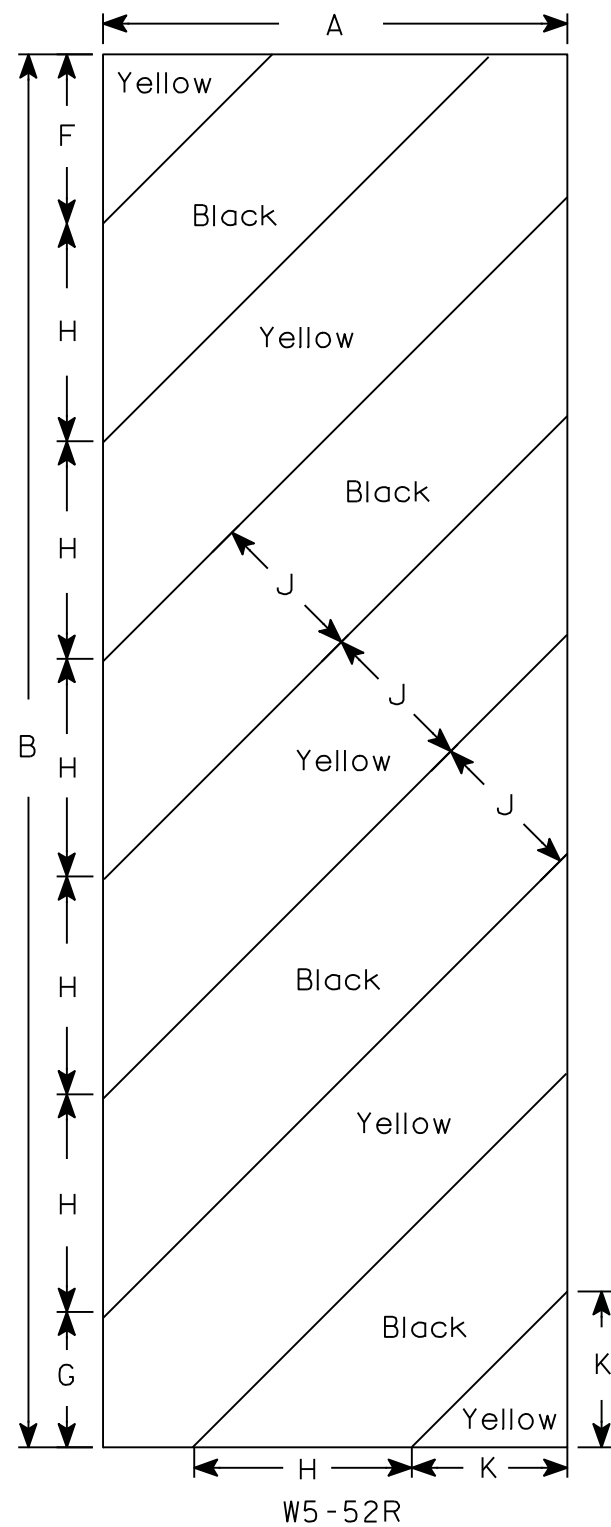
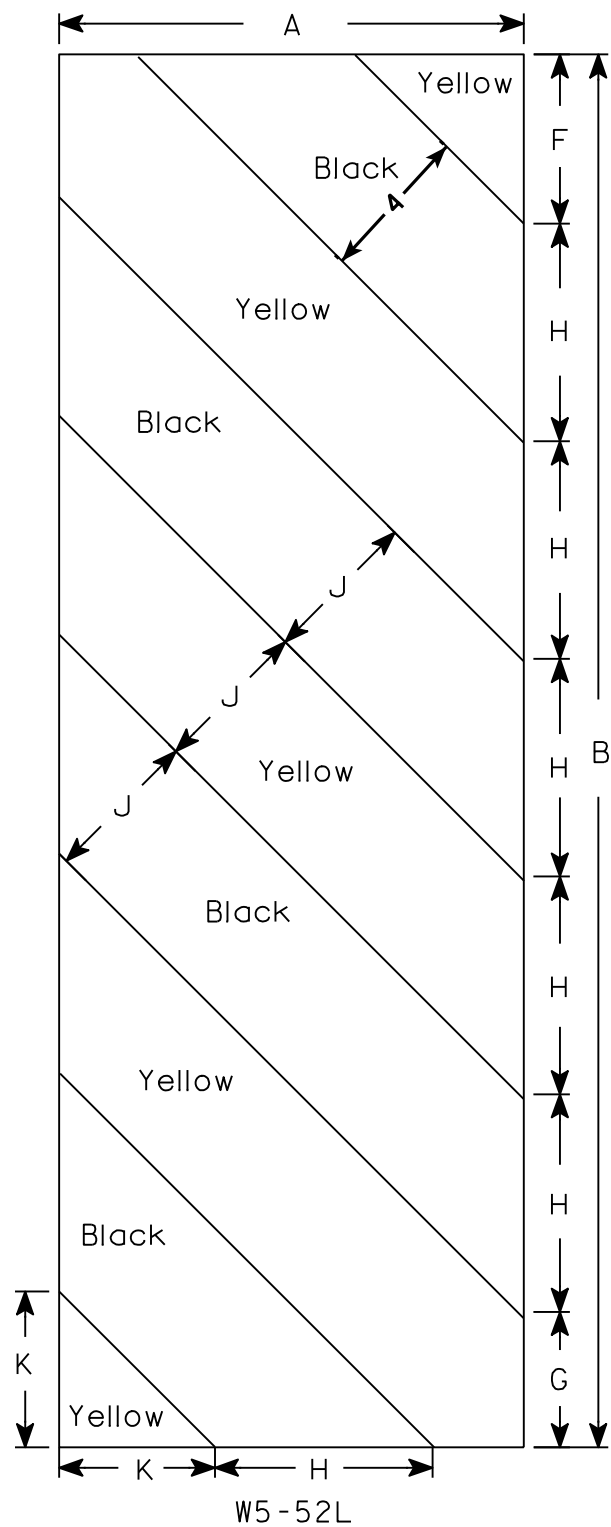
STANDARD SIGN W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: HWY: COUNTY: SHEET NO: 86 E



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. 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. Alternate colors of stripes as shown.

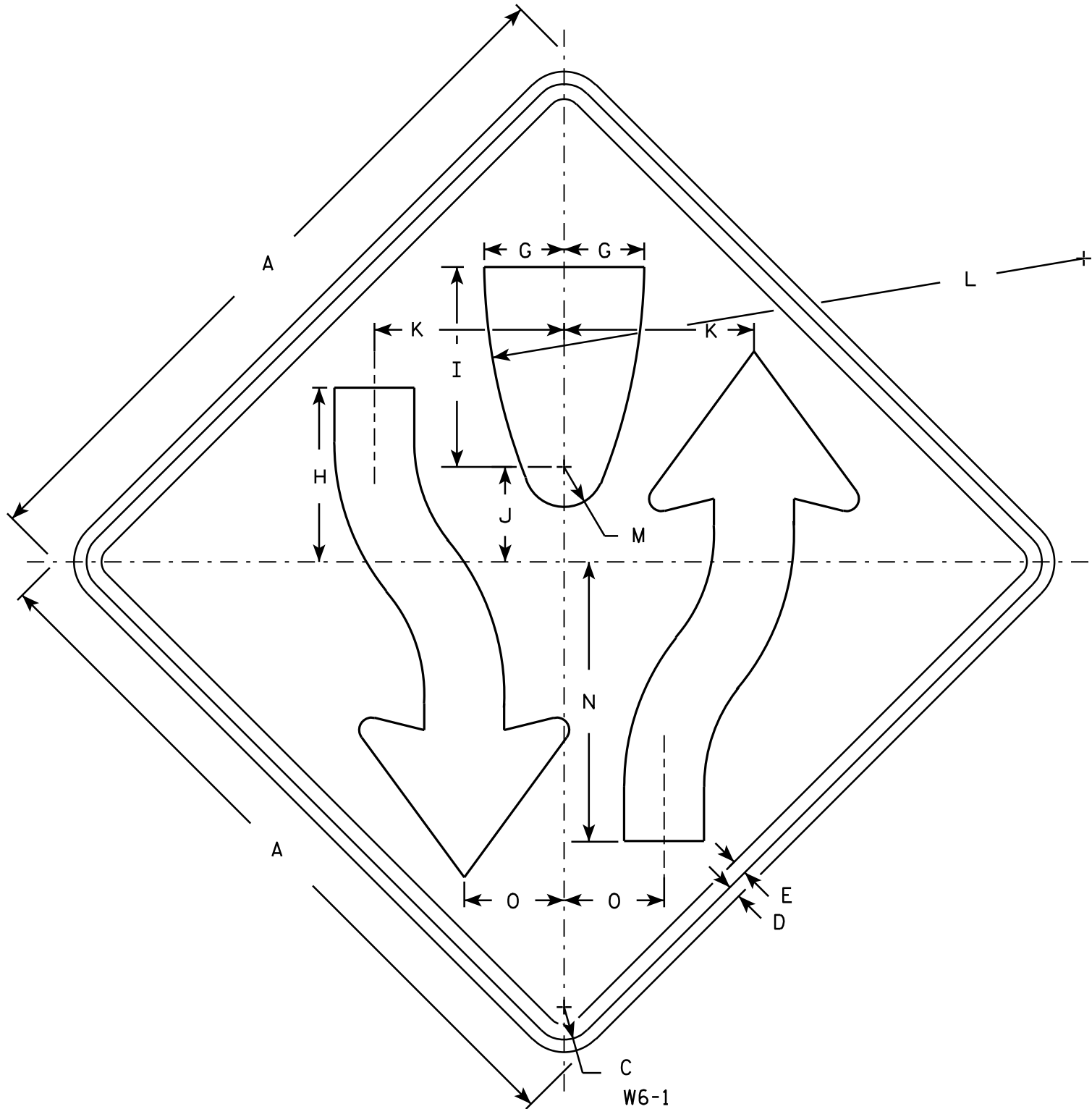
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
2M	12	36				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
3	18	54				6	5 1⁄2	8 1⁄2	45°	6	6 5⁄16																6.75
4																											
5																											

STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

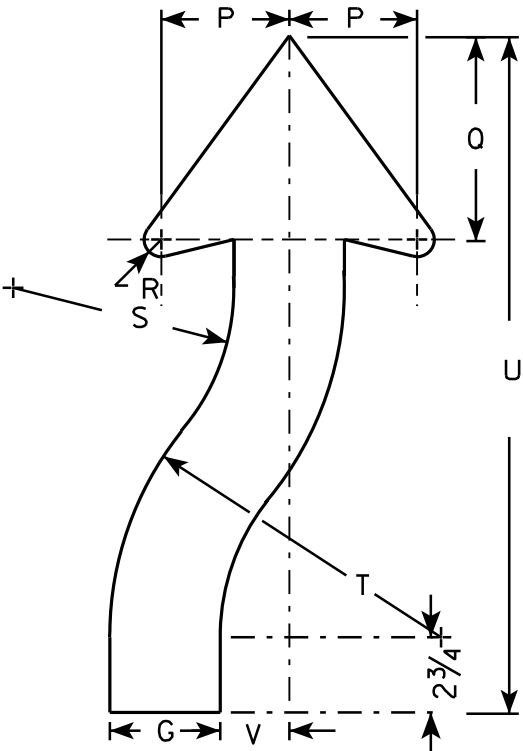
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9



NOTES

- 1. Sign is Type II - Type H 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 3/22/11 PLATE NO. W6-1.13

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING FACTOR: HS-21
OPERATING RATING FACTOR: HS-36
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

EARTHLOAD: DESIGNED FOR 4.5 FT. OF FILL

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY $f'_c = 3,500$ P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 $f_y = 60,000$ P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY

$Q_{100} = 1390$ C.F.S.
VEL. = 6.8 F.P.S.
HW. = EL. 754.4
WATERWAY AREA = 205 SQ. FT.
DRAINAGE AREA = 6.2 SQ. MI.
ROAD OVERTOPPING = NA
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

$Q_2 = 286$ C.F.S.
HW.₂ = EL. 751.9

CURVE DATA

USH 12

P.I. = 18+59.92
 $\Delta = 12^\circ 16' 00''$
D = 5°00'00"
T = 123.14'
L = 245.33'
R = 1,145.92'
P.C. = 17+36.78
P.T. = 19+82.12

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
CP1091	19+34.22	"X" ON 8 IN. PIPE RIM	100.34' LT. 765.133

STRUCTURE DESIGN CONTACT:

DANIELLE DE TENNIS (608) 266-8689
LAURA SHADEWALD (608) 267-9592

LIST OF DRAWINGS

1. GENERAL PLAN
2. STAGING & QUANTITIES
3. BOX CULVERT DETAILS
4. EAST & WEST HEADER AND PPT.
5. WINGS 1 & 2
6. WING 3 & N. WALL HEADER
7. WING PARAPET DETAILS

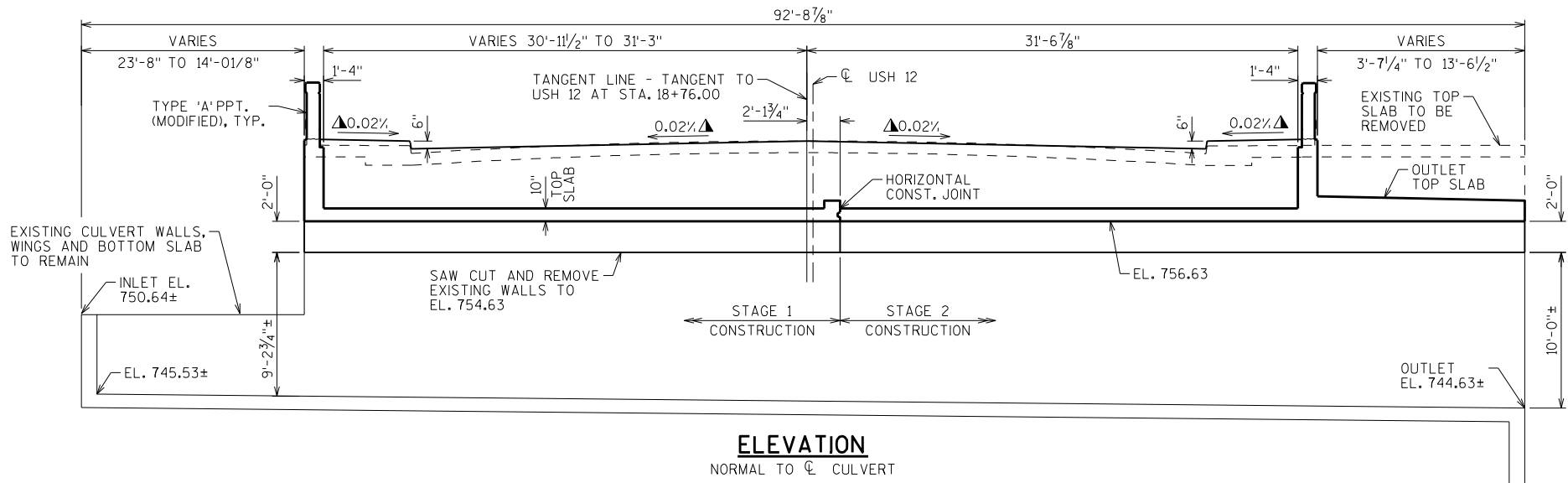
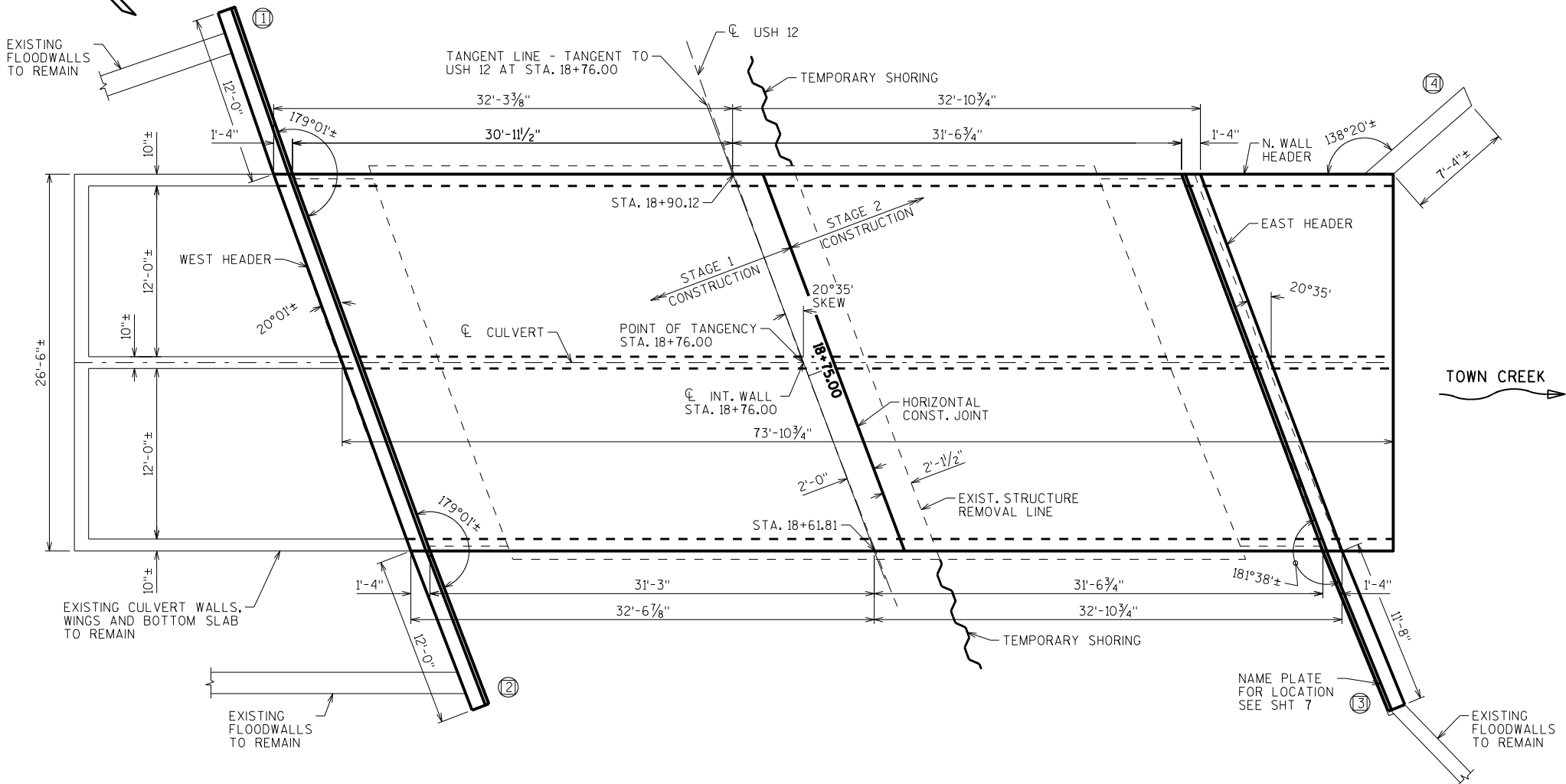
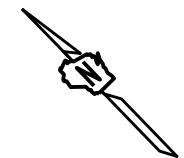
▲ SLOPE PERPENDICULAR
TO ∇ USH 12

GENERAL PLAN

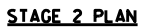
SHEET 1 OF 7

89

INDICATES
WING NUMBER



IF REQUIRED, TOUCH UP STAINING IS TO BE DONE TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.



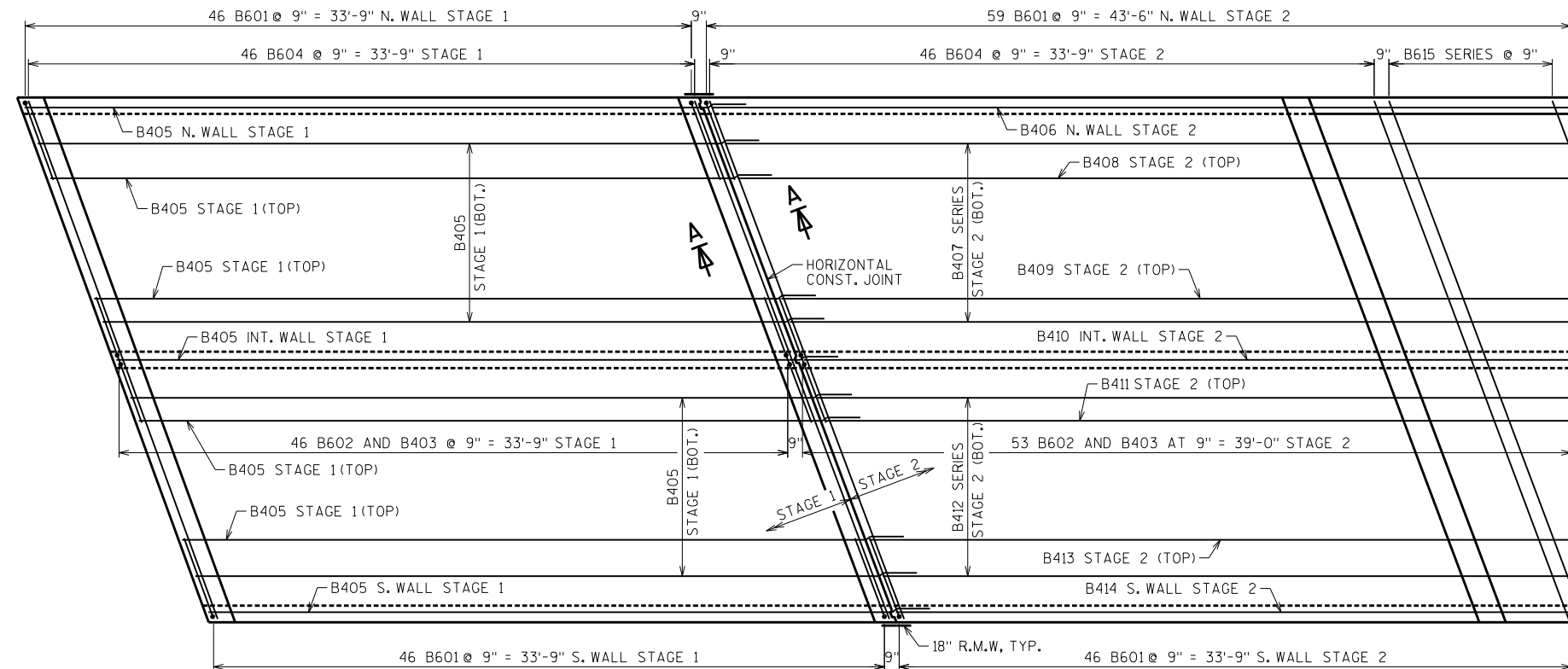
TO MAINTAIN STRUCTURAL INTEGRITY OF THE CULVERT, THE CONTRACTOR MAY USE EITHER OF THE ALTERNATES SHOWN. OTHER ALTERNATES PROPOSED BY THE CONTRACTOR REQUIRE APPROVAL FROM THE BUREAU OF STRUCTURES.

▲ DIMENSION PERPENDICULAR TO $\odot$ USH 12

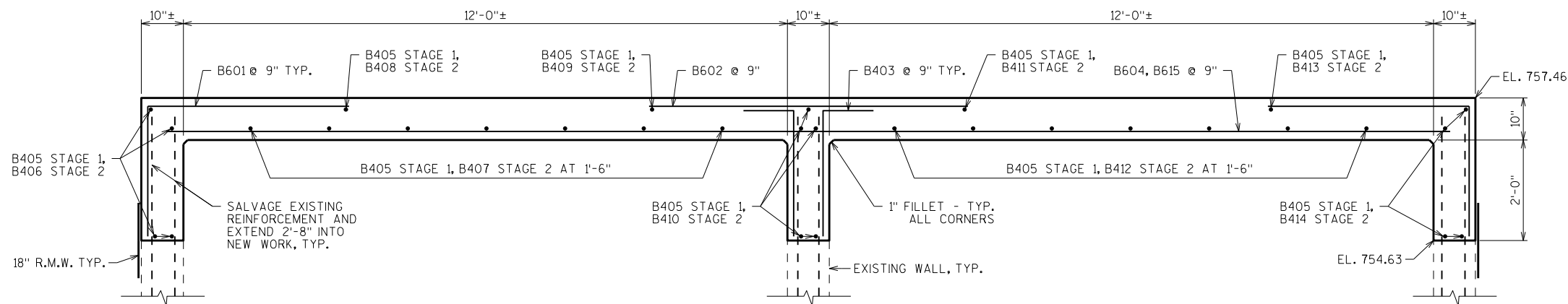
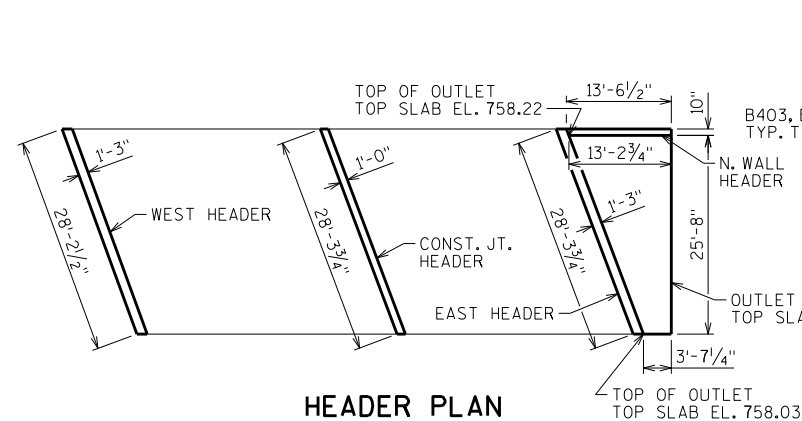
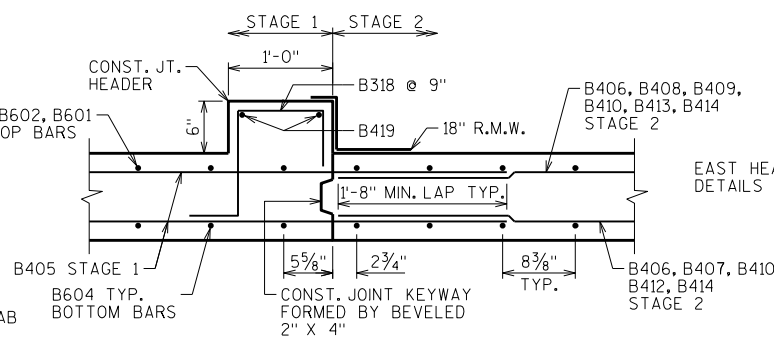
BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STA. 18+76.00	LS	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-27-56	LS	1
206.6000.S	TEMPORARY SHORING	SF	275
210.0100	BACKFILL STRUCTURE	CY	360
502.3200	PROTECTIVE SURFACE TREATMENT	SY	52
504.0100	CONCRETE MASONRY CULVERTS	CY	115
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	10,855
505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	5,450
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	42
517.1010.S	CONCRETE STAINING B-27-56	SF	1425
	NON-BID ITEMS		
	FILLER	SIZE	1/2" & 3/4"



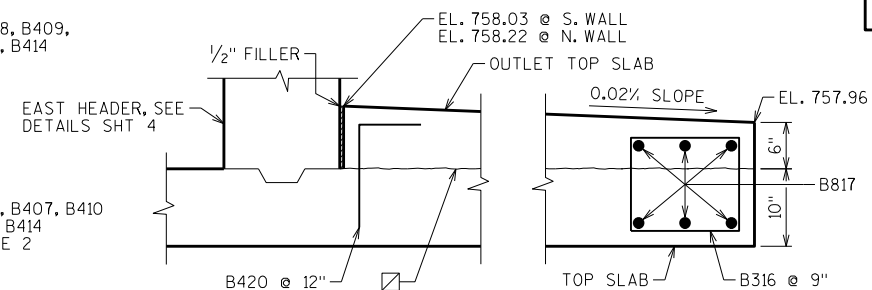
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-56			
		DRAWN BY	DFD PLANS CK'D. NAR
STAGING & QUANTITIES		SHEET 2	
		90	

**PLAN VIEW OF TOP SLAB**

HEADER BARS NOT SHOWN FOR CLARITY
FOR RAIL POST SPA. SEE SHTS 4 & 6

**TYPICAL SECTION THRU CULVERT****HEADER PLAN****SECTION A-A
THRU CONST. JT.**

DIMENSIONS TAKEN PERPENDICULAR TO JOINT

**SECTION THRU
OUTLET TOP SLAB**

CONST. JOINT - STRIKE OFF
AS SHOWN AND LEAVE ROUGH.

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE
BAR MARK SIGNIFIES THE BAR SIZE.

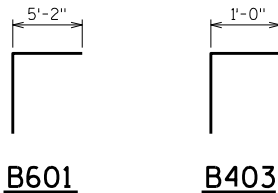
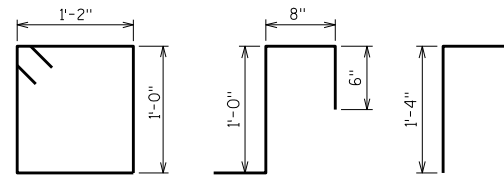
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B601		197	7-6	X		CORNERS
B602		99	10-9			TRANSVERSE BARS OVER INT. WALL
B403		198	3-5	X		VERT BARS INT. WALL
B604		92	27-11			TRANSVERSE BARS
B405		31	36-3			LONGIT. BARS STAGE 1
B406		3	43-8			LONGIT. BARS N. WALL STAGE 2
B407		7	41-4		▲	LONGIT. BARS STAGE 2
B408		1	42-0			LONGIT. BARS STAGE 2
B409		1	40-10			LONGIT. BARS STAGE 2
B410		5	38-10			LONGIT. BARS INT. WALL STAGE 2
B411		1	37-1			LONGIT. BARS STAGE 2
B412		7	36-8		▲	LONGIT. BARS STAGE 2
B413		1	35-11			LONGIT. BARS STAGE 2
B414		5	34-1			LONGIT. BARS S. WALL STAGE 2
B615		12	14-9		▲	TRANSVERSE BARS STAGE 2
B316	X	36	4-9	X		OUTLET SLAB STIRRUPS
B817	X	6	26-2			OUTLET HORIZ.
B318		38	2-5	X		CONST. JT. HEADER STIRRUPS
B419		2	27-11			CONST. JT. HEADER HORIZ.
B420	X	28	1-11	X		OUTLET SLAB DOWELS

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY
BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE
FOR ACTUAL LENGTHS.

BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
B407	1 SERIES OF 7	39'-8" TO 43'-0"
B412	1 SERIES OF 7	35'-0" TO 38'-3"
B615	1 SERIES OF 12	3'-0" TO 26'-6"

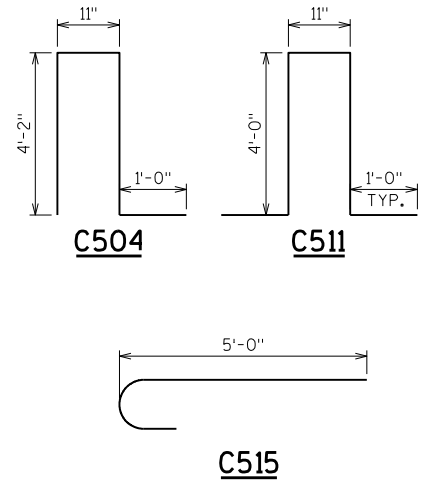
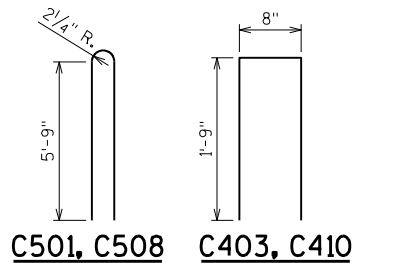
BUNDLE AND TAG EACH SERIES SEPARATELY.

**B601****B403****B316****B318****B420**

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-56			
DRAWN BY DFD		PLANS CKD. NAR	
BOX CULVERT DETAILS		SHEET 3	
		91	

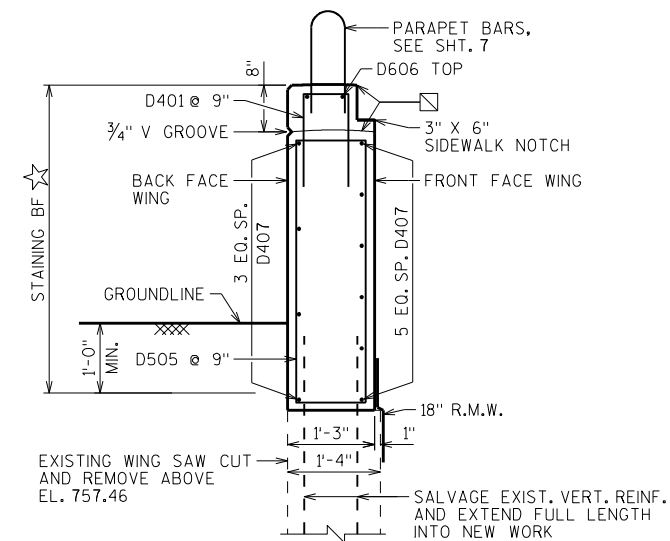
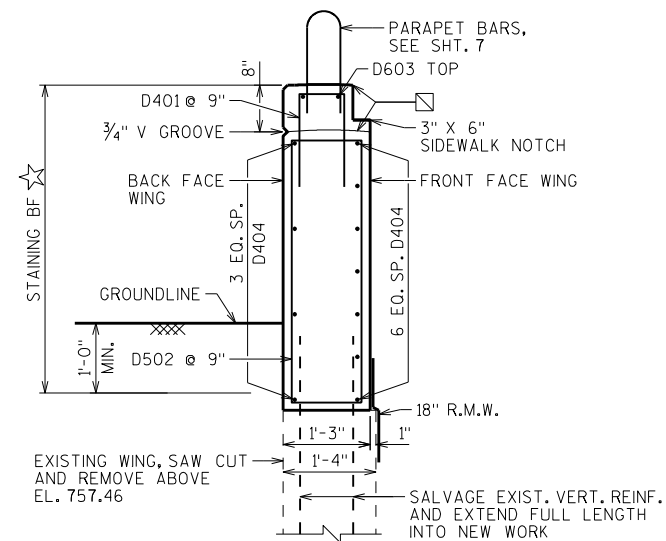
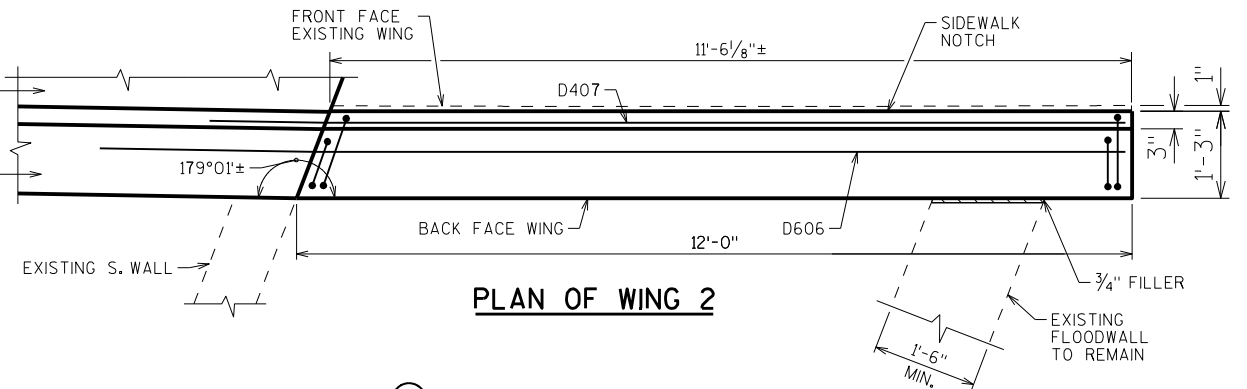
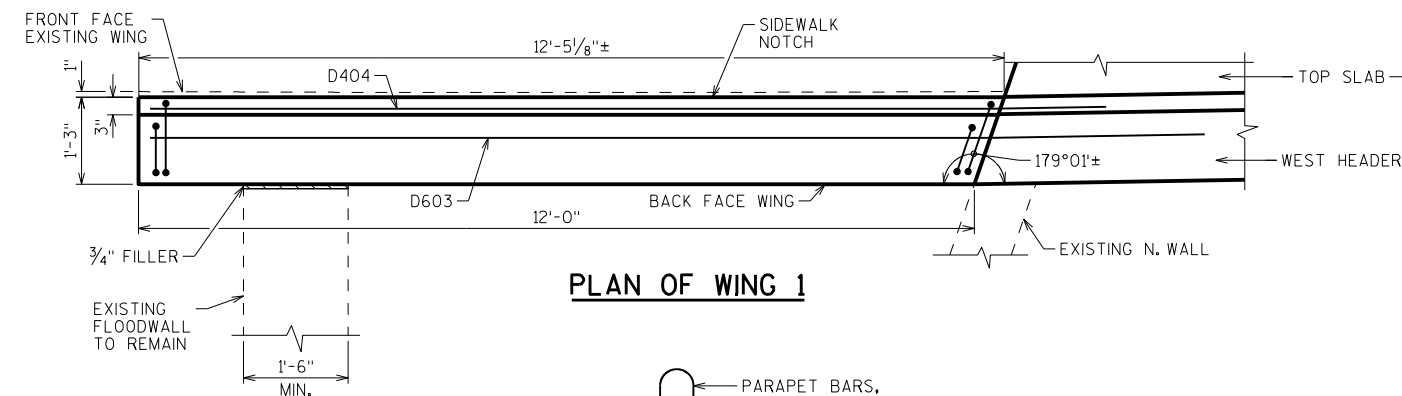
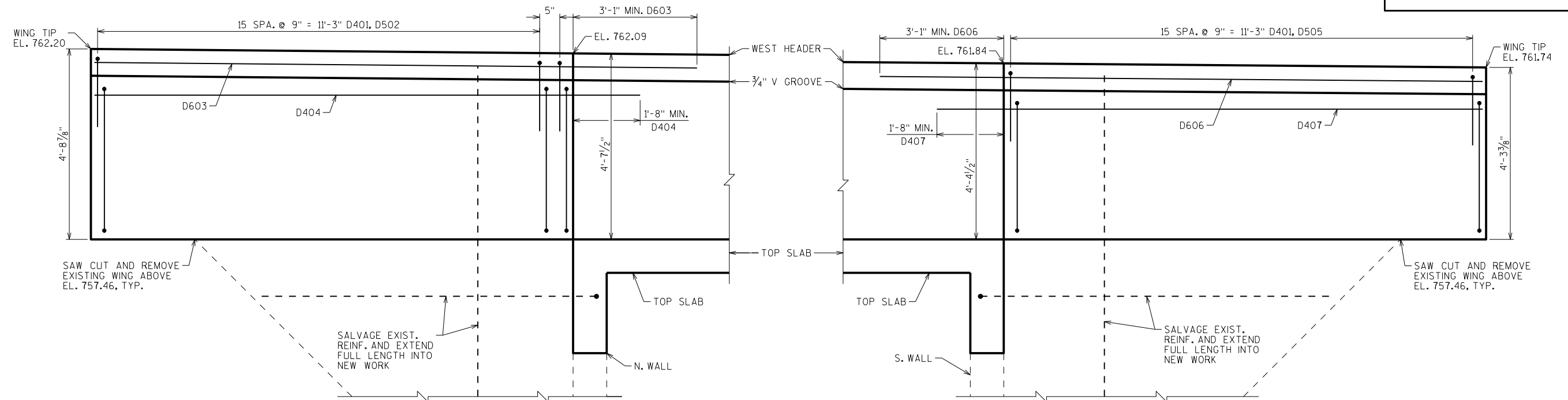


BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
C501	X	29	12-1	X		WEST PPT. STIRRUPS
C402	X	8	27-10			WEST PPT. HORIZ.
C403	X	38	4-0	X		WEST HEADER STIRRUPS
C504	X	38	10-0	X		WEST HEADER STIRRUPS
C605	X	2	27-10			WEST HEADER HORIZ.
C406	X	4	27-10			WEST HEADER HORIZ. BF
C407	X	7	27-10			WEST HEADER HORIZ. FF
C508	X	33	12-1	X		EAST PPT. STIRRUPS
C409	X	8	27-11			EAST PPT. HORIZ.
C410	X	38	4-0	X		EAST HEADER STIRRUPS
C511	X	38	10-5	X		EAST HEADER STIRRUPS
C612	X	2	27-11			EAST HEADER HORIZ.
C413	X	4	27-11			EAST HEADER HORIZ. BF
C414	X	7	27-11			EAST HEADER HORIZ. FF
C515		56	5-7	X		WEST HEADER TOP SLAB HOOKS
C516		56	8-9			EAST HEADER TOP SLAB HORIZ.



★ CONCRETE STAINING TO MATCH EXIST.
CULVERT WINGS AND FLOODWALLS

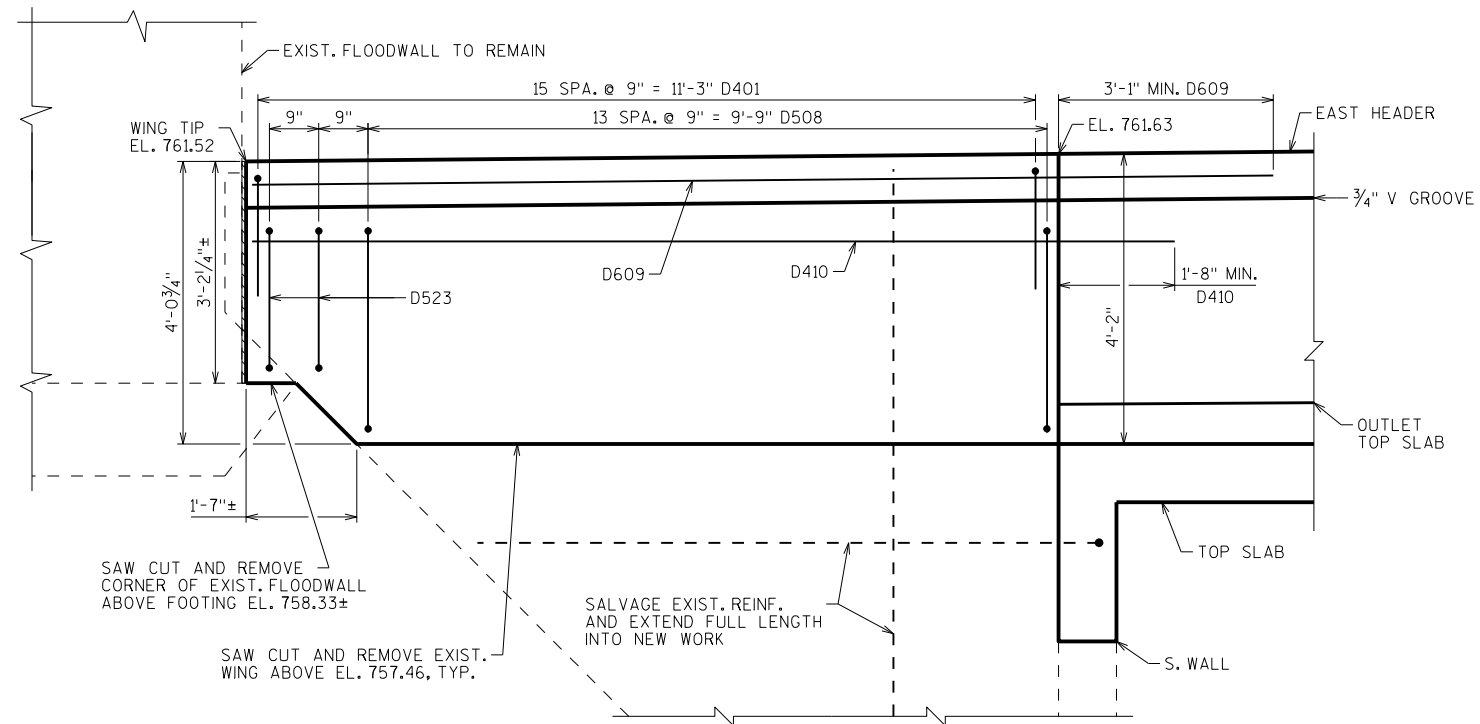
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-56			
DRAWN BY		DFD	PLANS CK'D. NAR
EAST & WEST HEADER & PPT		SHEET 4	
		92	



☐ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

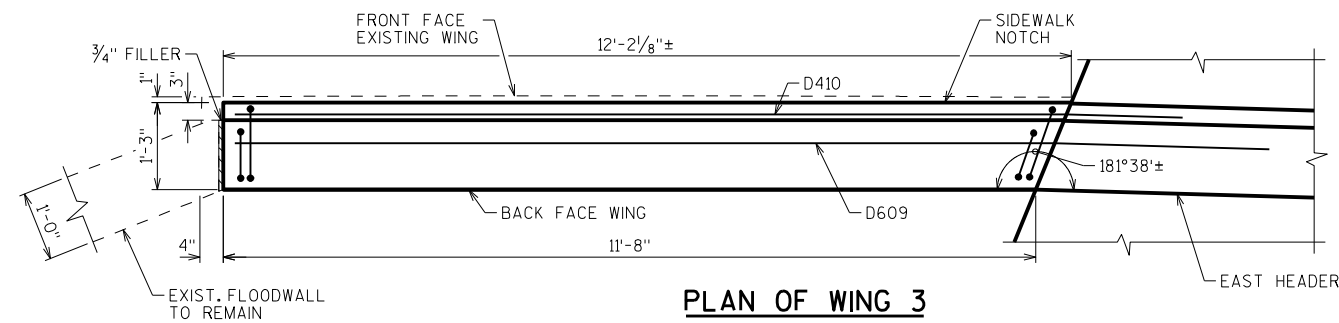
☆ CONCRETE STAINING TO MATCH EXIST. CULVERT WINGS AND FLOODWALLS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-56			
DRAWN BY DFD		PLANS CK'D. NAR	
WINGS 1 & 2		SHEET 5	
		93	

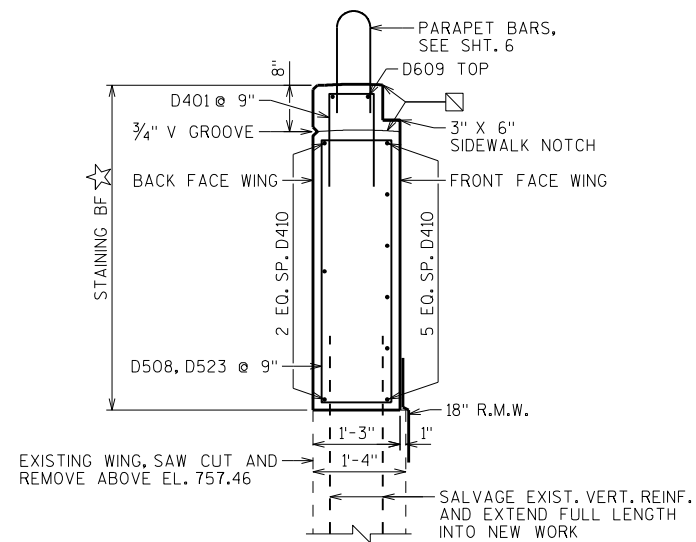


ELEVATION OF WING 3

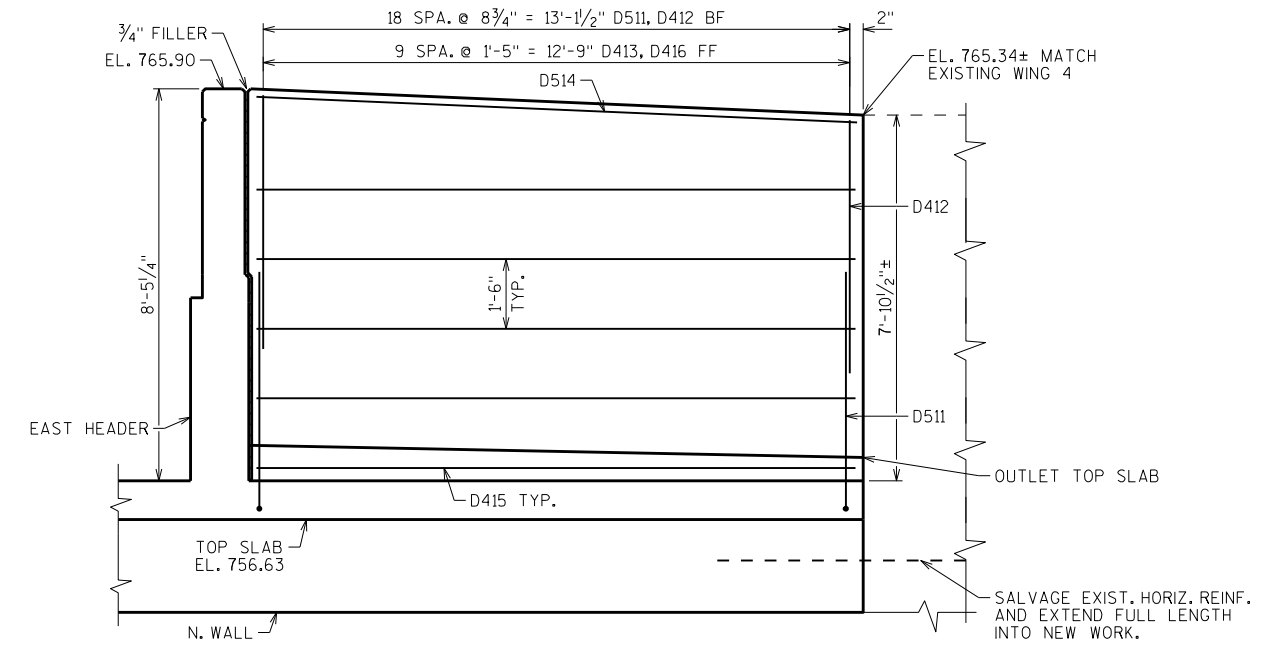
(LOOKING WEST, PPT NOT SHOWN)



PLAN OF WING 3

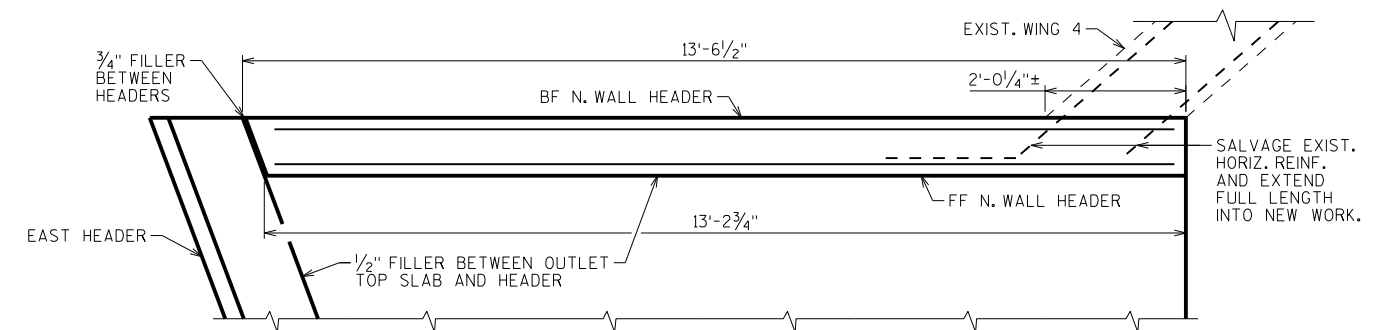


SECTION THRU WING 3

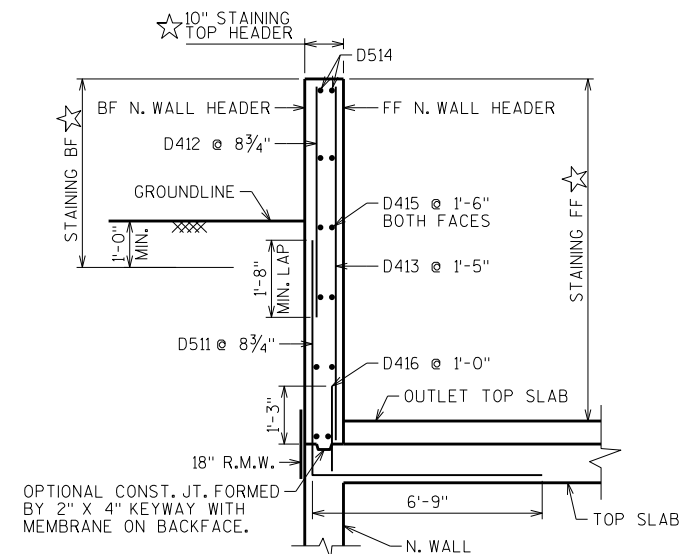


ELEVATION OF N. WALL HEADER

(SHOWING FF HEADER)



PLAN OF N. HEADER WALL

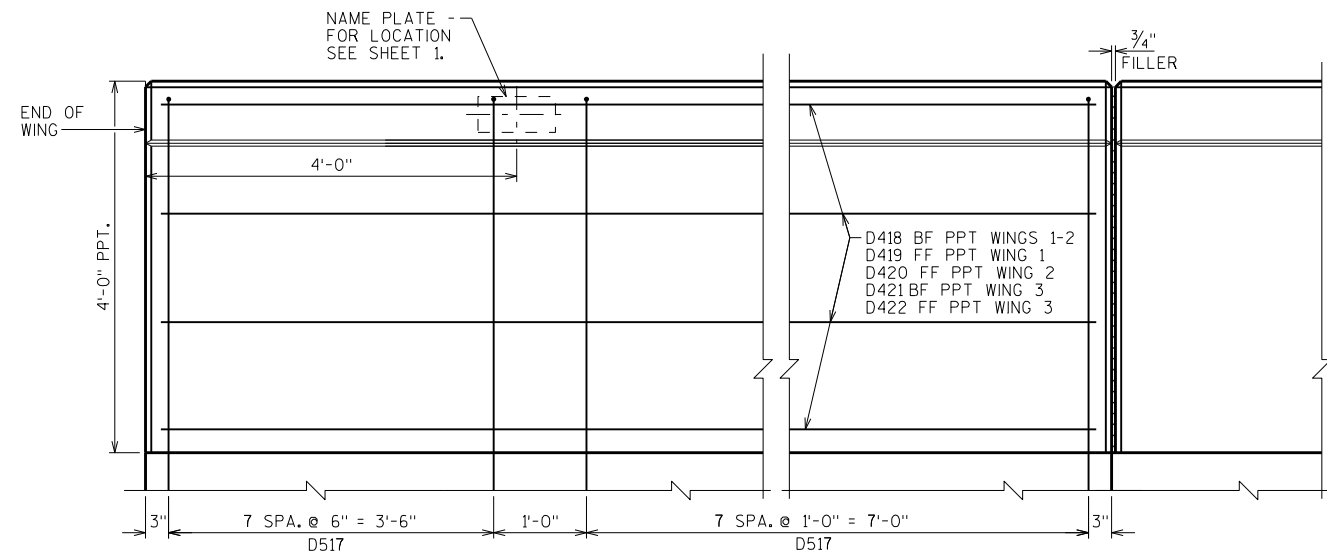


SECTION THRU N. WALL HEADER

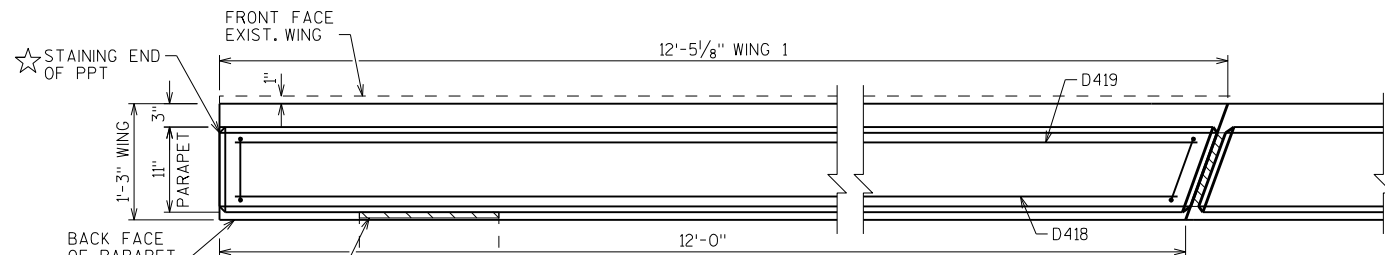
☑ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

★ CONCRETE STAINING TO MATCH EXIST. CULVERT WINGS AND FLOODWALLS

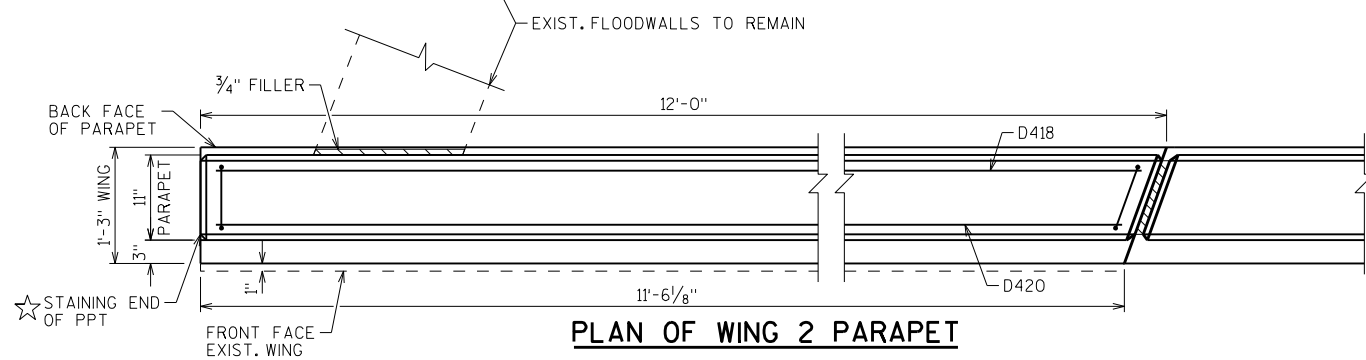
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-56			
DRAWN BY		DFD	PLANS CK'D. NAR
WING 3 & N. WALL HEADER		SHEET 6	94



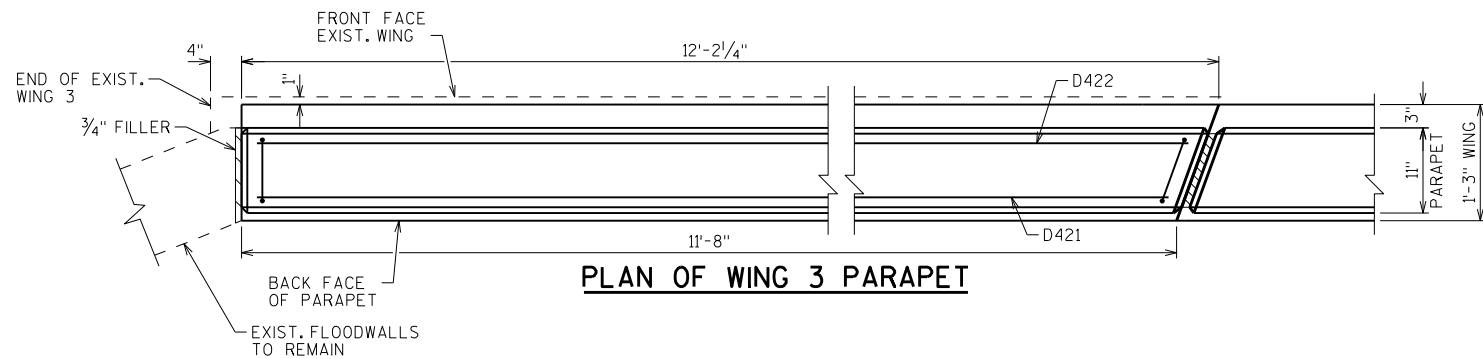
ELEVATION OF PARAPET
(SHOWING FF PARAPET.)



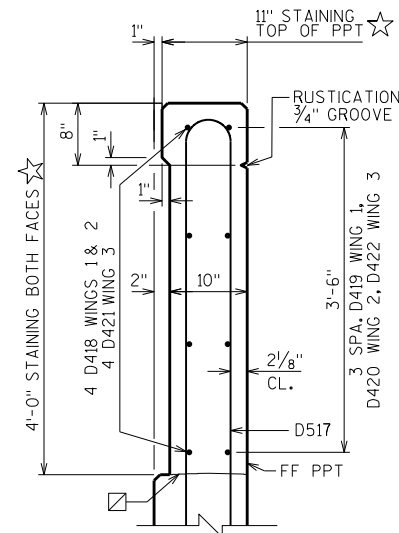
PLAN OF WING 1 PARAPET



PLAN OF WING 2 PARAPET



PLAN OF WING 3 PARAPET



SECTION THRU PARAPET

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

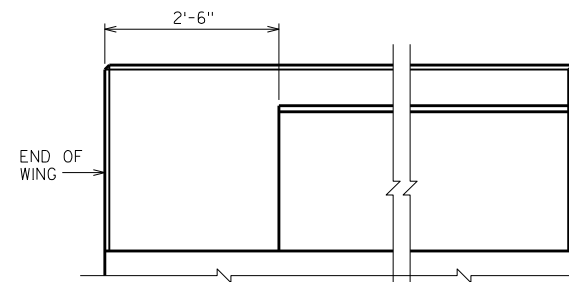
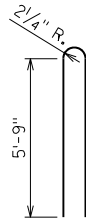
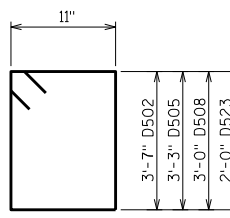
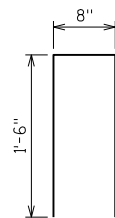
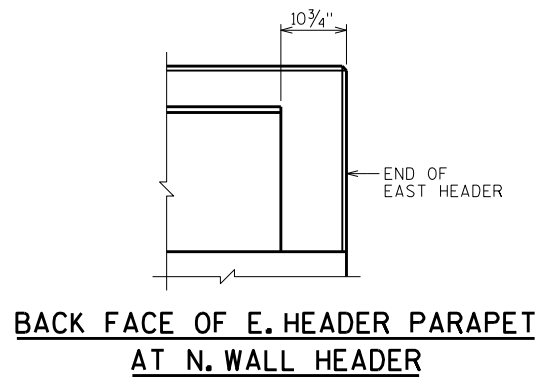
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
D401	X	49	3-6	X		WING STIRRUPS
D502	X	17	9-8	X		WING 1 STIRRUPS
D603	X	2	15-6			WING 1 HORIZ.
D404	X	11	14-0			WING 1 HORIZ.
D505	X	16	9-0	X		WING 2 STIRRUPS
D606	X	2	15-0			WING 2 HORIZ.
D407	X	10	13-6			WING 2 HORIZ.
D508	X	14	8-6	X		WING 3 STIRRUPS
D609	X	2	14-11			WING 3 HORIZ.
D410	X	9	13-8			WING 3 HORIZ.
D511	X	19	11-8	X		N. WALL HEADER VERT. BF
D412	X	19	5-7			N. WALL HEADER VERT. BF
D413	X	10	8-0		▲	N. WALL HEADER VERT. FF
D514	X	2	12-11			N. WALL HEADER TOP
D415	X	10	12-10			N. WALL HEADER HORIZONTAL
D416	X	10	1-11			N. WALL HEADER DOWEL
D517	X	48	12-1	X		PPT. STIRRUPS WINGS 1-3
D418	X	8	11-7			PPT. HORIZ. BF WINGS 1-2
D419	X	4	11-11			PPT. HORIZ. FF WING 1
D420	X	4	11-4			PPT. HORIZ. FF WING 2
D421	X	4	11-4			PPT. HORIZ. BF WING 3
D422	X	4	11-7			PPT. HORIZ. BF WING 3
D523	X	2	6-5			WING 3 STIRRUPS

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
D413	1 SERIES OF 10	7'-8" TO 8'-3"

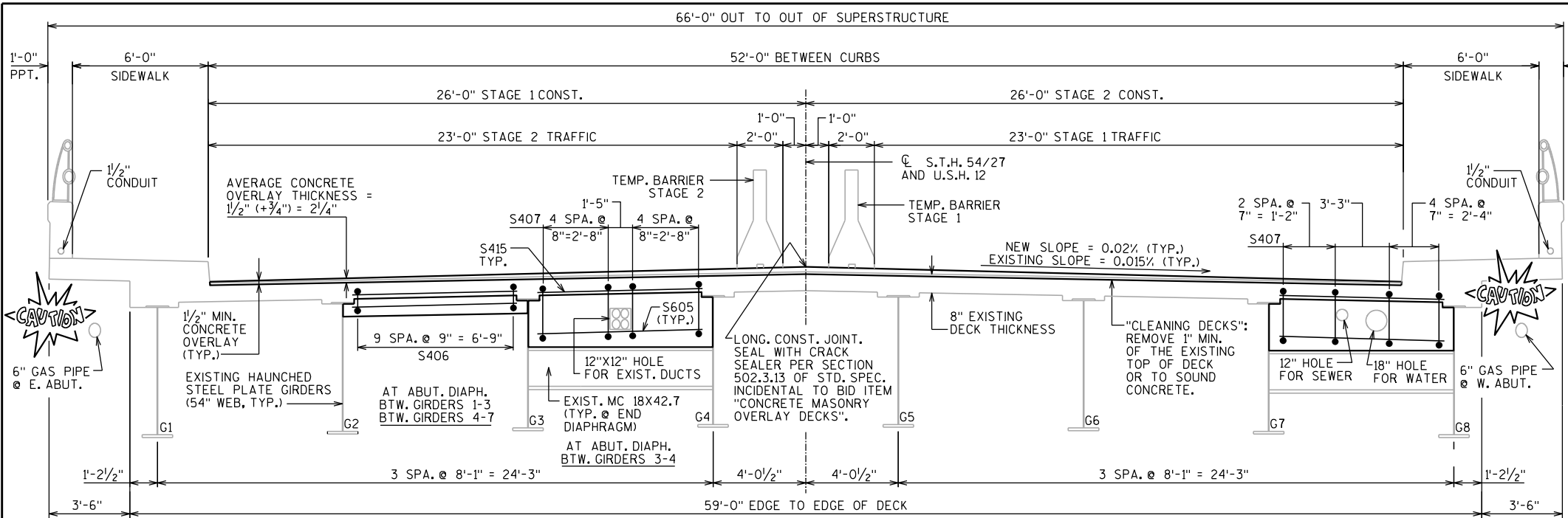
BUNDLE AND TAG EACH SERIES SEPARATELY.



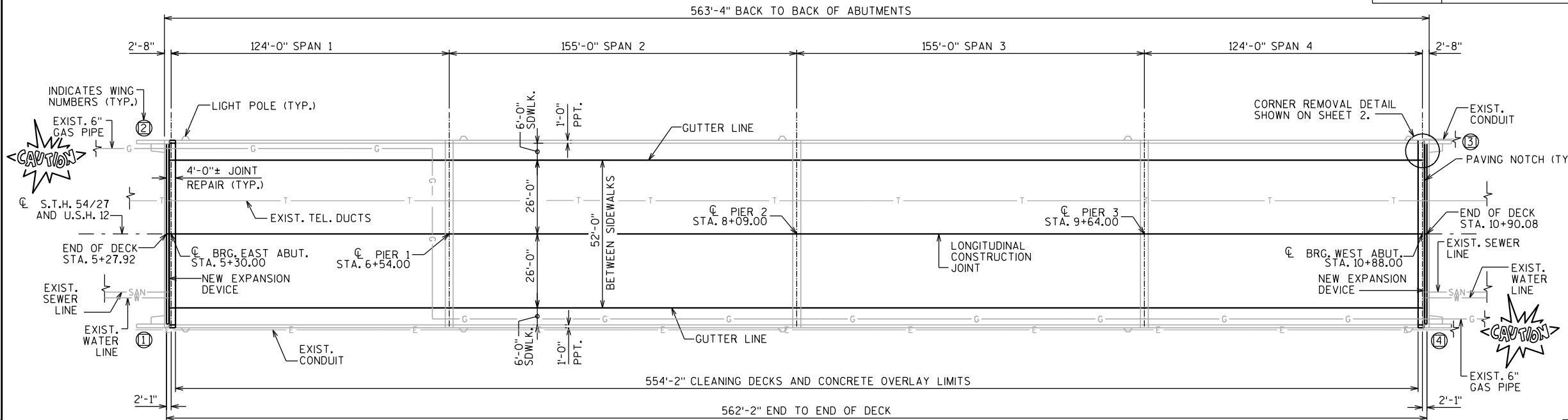
☑ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

☆ CONCRETE STAINING TO MATCH EXIST. CULVERT WINGS AND FLOODWALLS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-56			
DRAWN BY		DFD	PLANS CK'D. NAR
WING PARAPET DETAILS		SHEET	7
			95



CROSS SECTION THRU ROADWAY LOOKING WEST



PLAN

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY OR JOINT REPAIR AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF THE NEW CONCRETE OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY THICKNESS SHOWN ON THE PLANS BY MORE THAN 1/2".

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF ALL ABUTMENTS AND PIERS BELOW EXPANSION DEVICES. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK TO BE INCIDENTAL TO "JOINT REPAIR".

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE.

PIGMENTED PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND INSIDE FACE OF SIDEWALKS, AND THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS AND SIDEWALKS ON ABUTMENT WINGS. PIGMENTED PROTECTIVE SURFACE TREATMENT SHALL BE THE COLOR "LIMESTONE".

THE TOP AND INSIDE FACES OF PARAPETS, SIDEWALKS AND CURBS AT DECK AND WINGS SHALL BE CLEANED BEFORE THE PROTECTIVE SURFACE TREATMENT IS APPLIED. WORK SHALL BE COVERED UNDER THE BID ITEM "CLEANING PARAPETS".

REESTABLISH OPENINGS IN ABUTMENT DIAPHRAGMS TO ACCOMMODATE EXISTING IN-SERVICE AND ABANDONED UTILITIES.

REMOVAL LINES SHALL BE DEFINED BY A 1" DEEP SAW CUT AT THE CONCRETE SURFACE.

PREPARATION DECKS TYPE 1 & 2, AND CONCRETE SURFACE REPAIR LOCATIONS SHALL BE DETERMINED BY THE FIELD ENGINEER.

DESIGN DATA

LIVE LOAD:
INVENTORY RATING: HS-16
OPERATIONAL RATING: HS-28
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 200 KIPS

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY OVERLAY DECKS $f'_c = 4,000$ P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 $f_y = 60,000$ P.S.I.

STATE PROJECT NUMBER

7540-03-70

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBERS	BID ITEMS	UNIT	TOTALS
502.3100	EXPANSION DEVICE B-27-73	LS	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	3260
502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	SY	1235
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4365
505.0904	BAR COUPLERS NO. 4	EACH	8
505.0906	BAR COUPLERS NO. 6	EACH	24
509.0301	PREPARATION DECKS TYPE 1	SY	34
509.0302	PREPARATION DECKS TYPE 2	SY	4
509.0500	CLEANING DECKS	SY	3210
509.1000	JOINT REPAIR	SY	59
509.1500	CONCRETE SURFACE REPAIR	SF	250
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	225
509.9050.S	CLEANING PARAPETS	LF	1180
514.0900	ADJUSTING FLOOR DRAINS	EACH	4
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-27-73	LS	1
SPV.0105	REMOVE AND RESET TUBULAR RAILING SPECIAL B-27-73	LS	1
NON-BID ITEMS			
BRIDGE SEAT PROTECTION			
		LS	1

LIST OF DRAWINGS

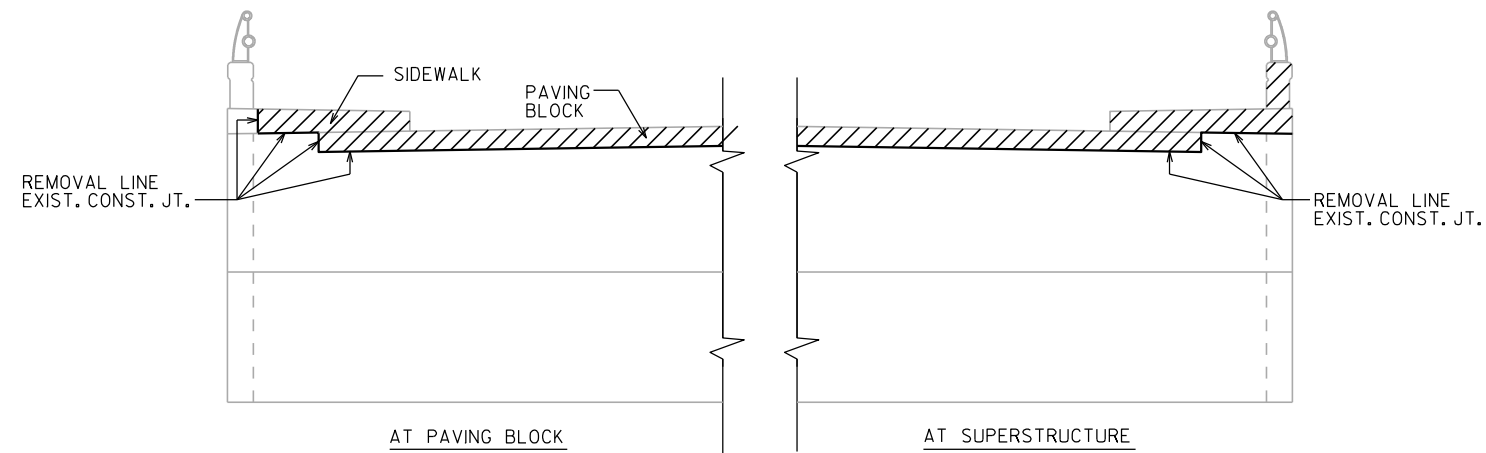
1. CONCRETE OVERLAY
2. REMOVAL DETAILS
3. JOINT REPAIR 1
4. JOINT REPAIR 2
5. EXP. DEVICE AND COVER PLATE
6. PARAPET AND RAILING DETAILS

STRUCTURES DESIGN CONTACTS:
DANIEL BREUNIG (608) 266-0214
LAURA SHADEWALD (608) 267-9592

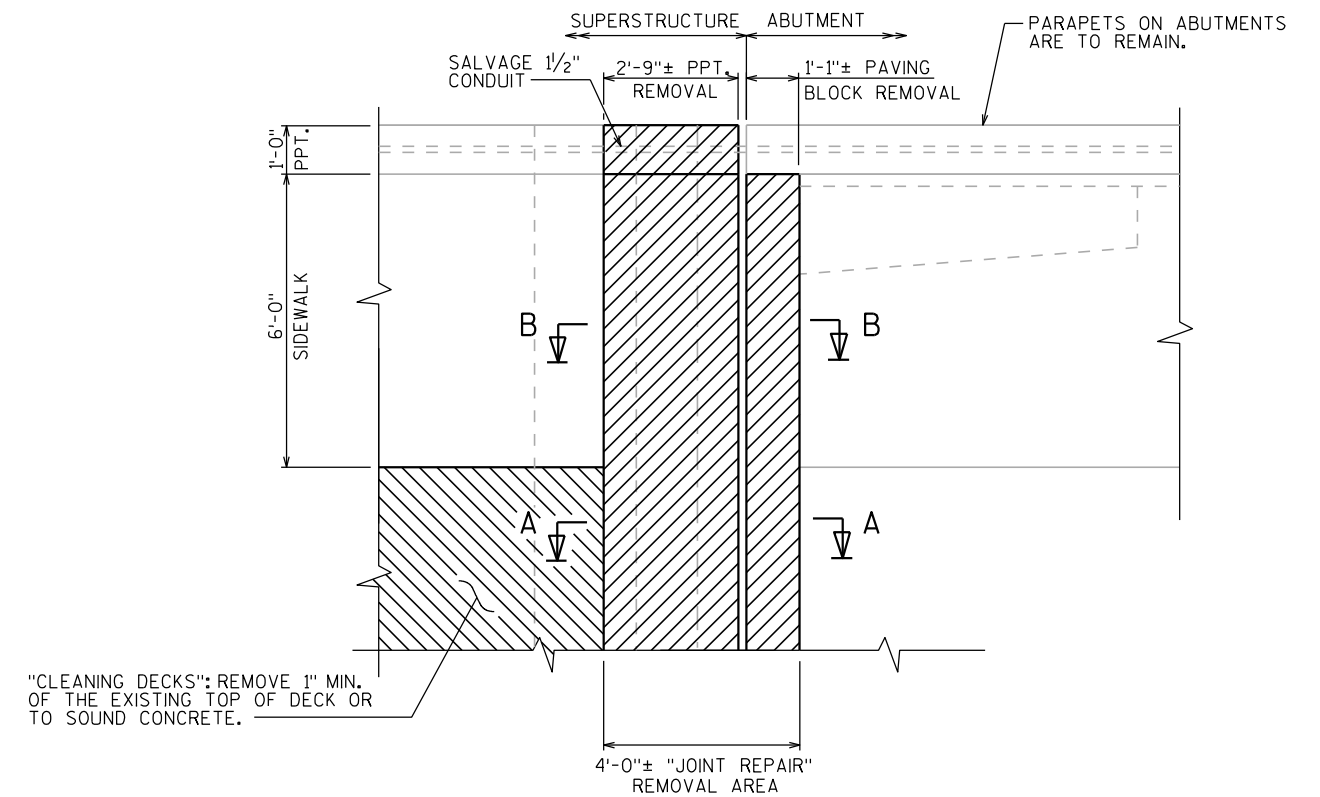
8

NO.	DATE	REVISION	BY
 Plans Prepared By WISDOT BUREAU OF STRUCTURES			
ACCEPTED <i>William C. Dreher</i> 1/18/12 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-27-73			
S.T.H. 54/27 AND U.S.H. 12 OVER BLACK RIVER			
COUNTY	JACKSON	TOWN/CITY/VILLAGE	BLACK RIVER FALLS
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	DVB	DESIGN CK'D.	BLB
DRAWN BY	DVB	PLANS CK'D.	BLB
CONCRETE OVERLAY			SHEET 1 OF 6
			96

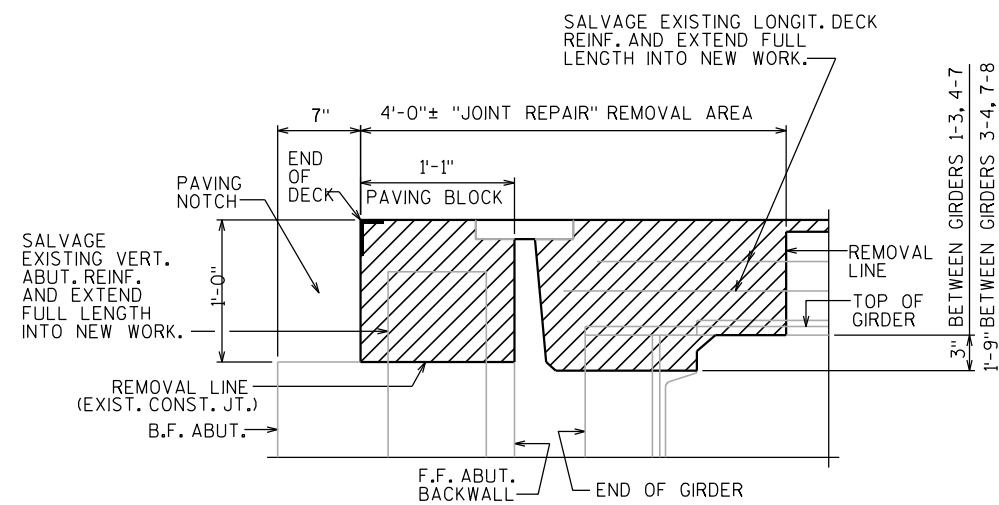
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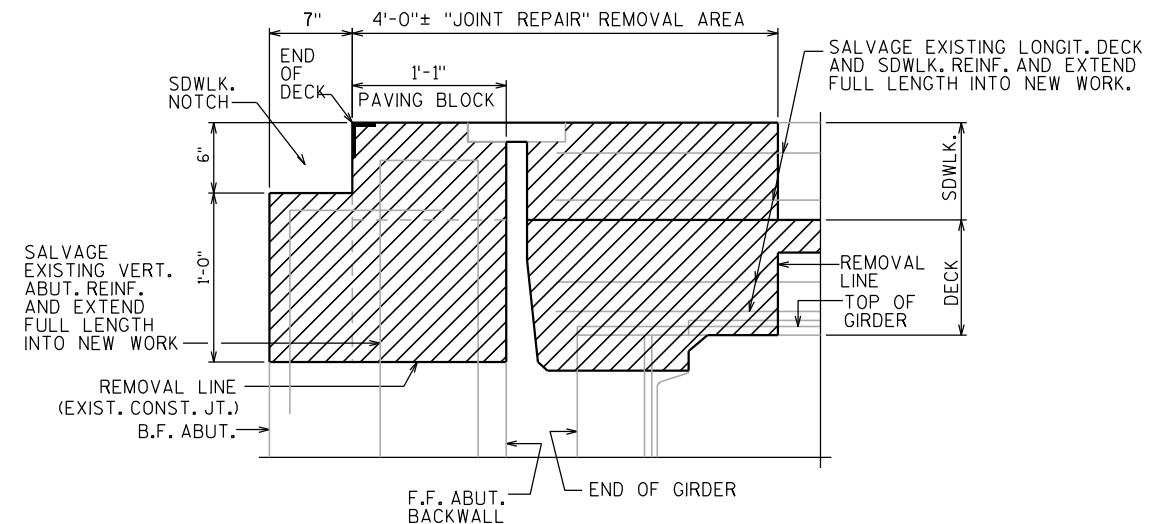
REMOVAL LINE AT WEST ABUTMENT
LOOKING WEST (EAST ABUTMENT SIMILAR)



REMOVAL LIMITS AT SOUTH WEST CORNER
(OTHER CORNERS SIMILAR)

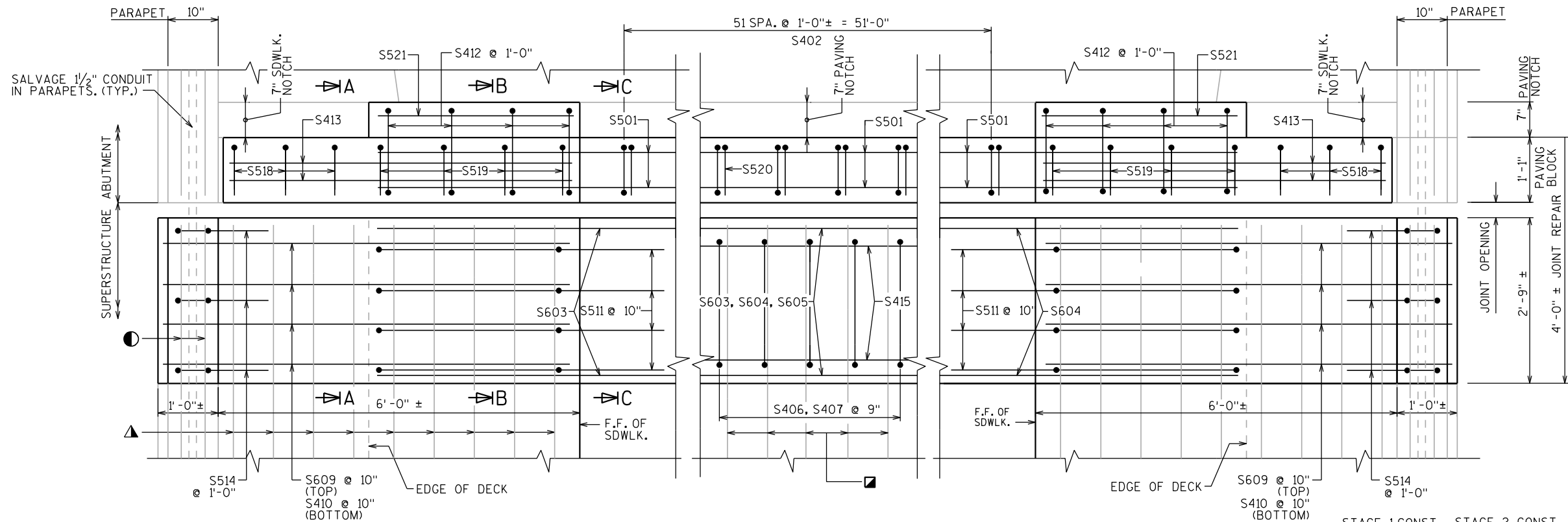


SECTION A-A AT BOTH ABUTMENTS
(SECTION NORMAL TO ∇ BRG. ABUTS)



SECTION B-B AT BOTH ABUTMENTS
(SECTION NORMAL TO ∇ BRG. ABUTS)

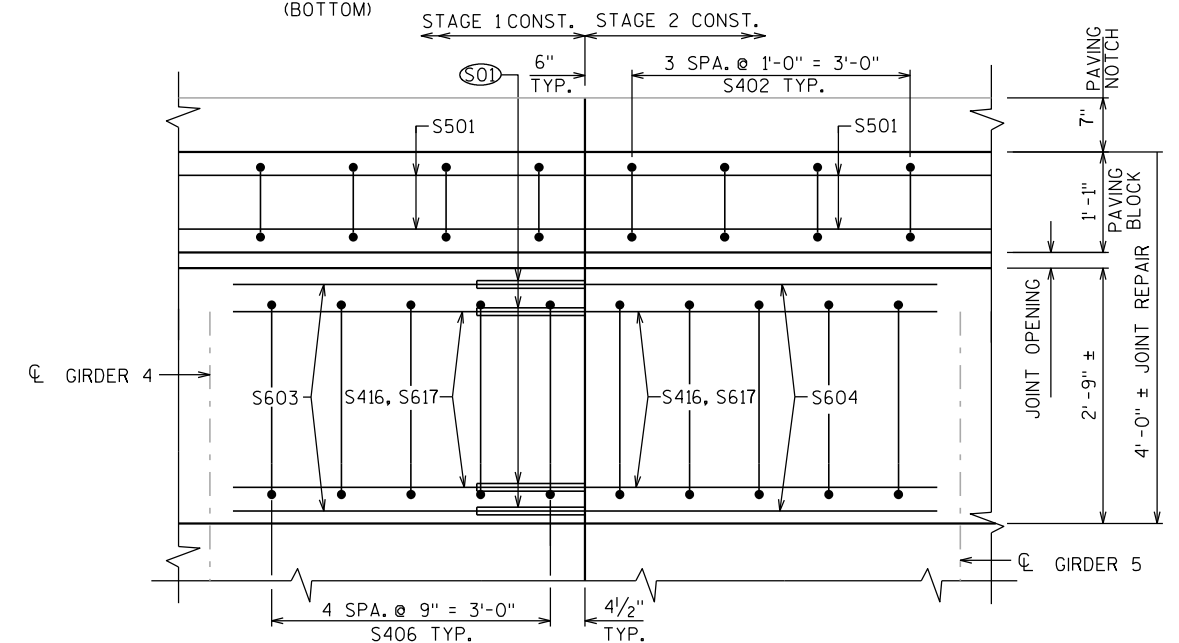
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-73			
DRAWN BY		DVB	PLANS CK'D. BLB
REMOVAL DETAILS		SHEET 2	97



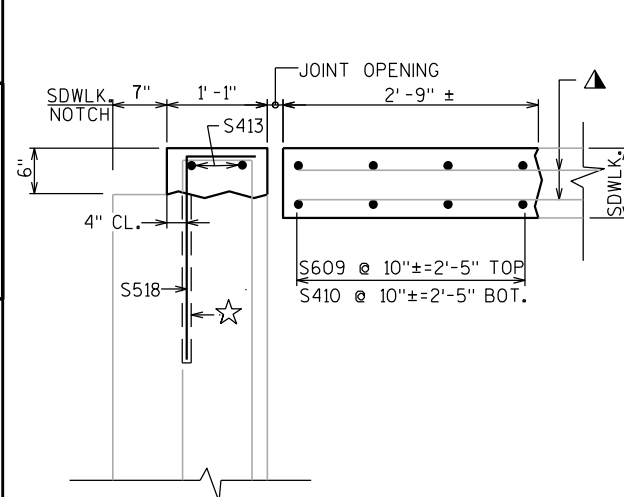
PLAN - WEST ABUTMENT

EAST ABUTMENT MIRRORED

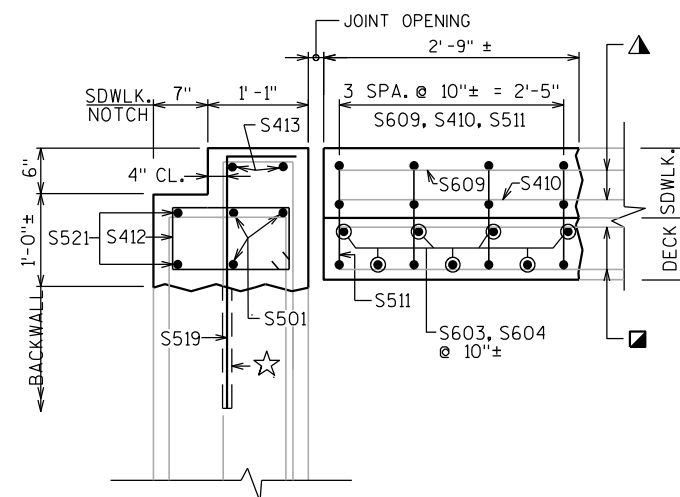
- SALVAGE AND REUSE EXISTING LONGITUDINAL DECK REINF. AND EXTEND FULL LENGTH INTO NEW WORK. (TYP.)
- SALVAGE AND REUSE EXISTING LONGITUDINAL PARAPET REINF. AND EXTEND FULL LENGTH INTO NEW WORK. (TYP.)
- ▲ SALVAGE AND REUSE EXISTING LONGITUDINAL SIDEWALK REINF. AND EXTEND FULL LENGTH INTO NEW WORK. (TYP.)
- Ⓢ01 BAR COUPLERS USED. BAR LENGTH COMPUTED TO CL OF LONGIT. JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS RECOMMENDATIONS.
- ☆ MASONRY ANCHORS TYPE L NO. 5 BARS. MIN. PULLOUT CAPACITY OF 19 KIPS. EMBED A MINIMUM OF 1'-6" INTO CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT.



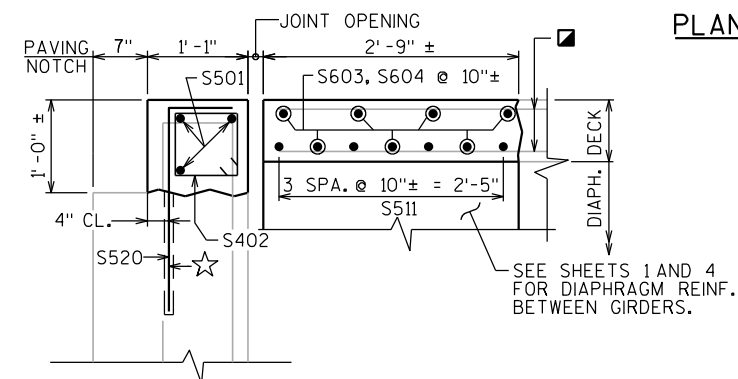
PLAN - WEST ABUTMENT CONST. JOINT

EAST ABUTMENT MIRRORED
SALVAGED REBAR OMITTED FOR CLARITY

SECTION A-A

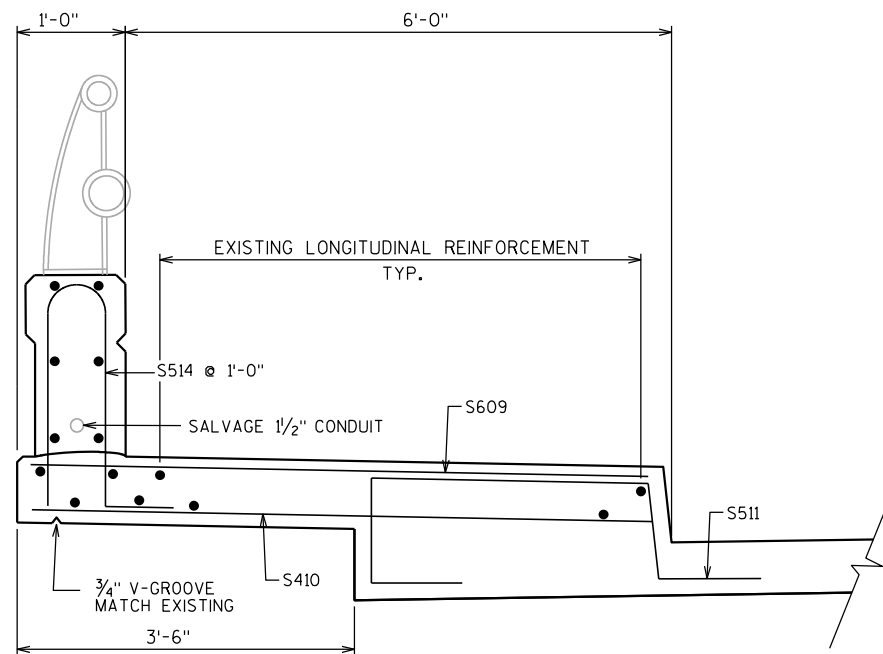


SECTION B-B



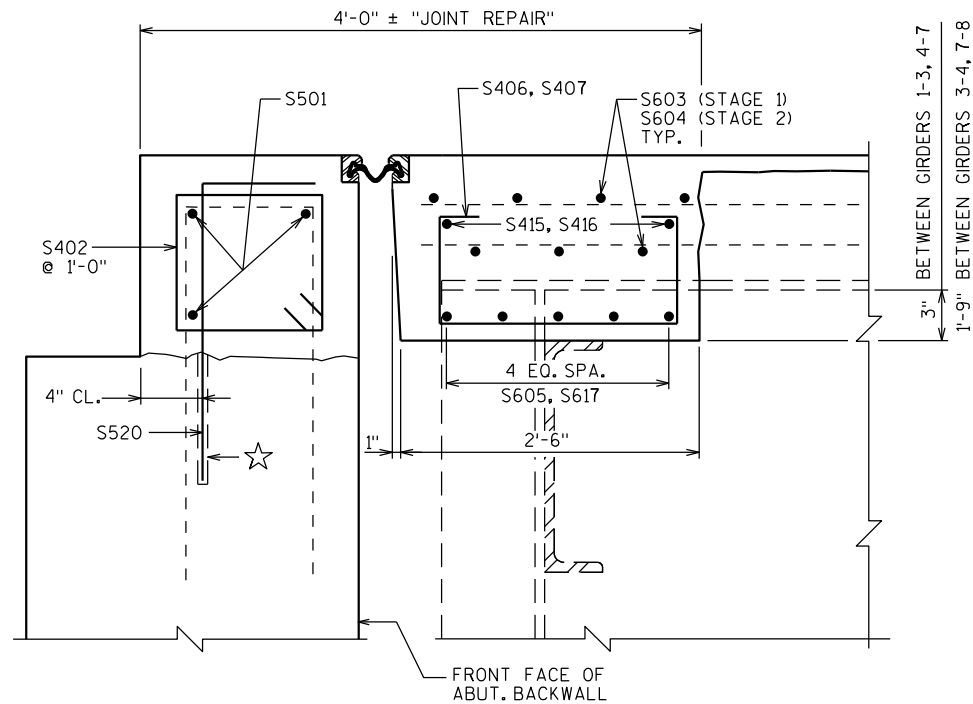
SECTION C-C

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-73			
DRAWN BY		DVB	PLANS CK'D. BLB
JOINT REPAIR 1		SHEET 3	
		98	



SECTION THRU SIDEWALK JOINT REPAIR

AT SUPERSTRUCTURE



PAVING BLOCK AND DIAPHRAGM DETAILS

NORMAL TO CL SUBSTRUCTURE

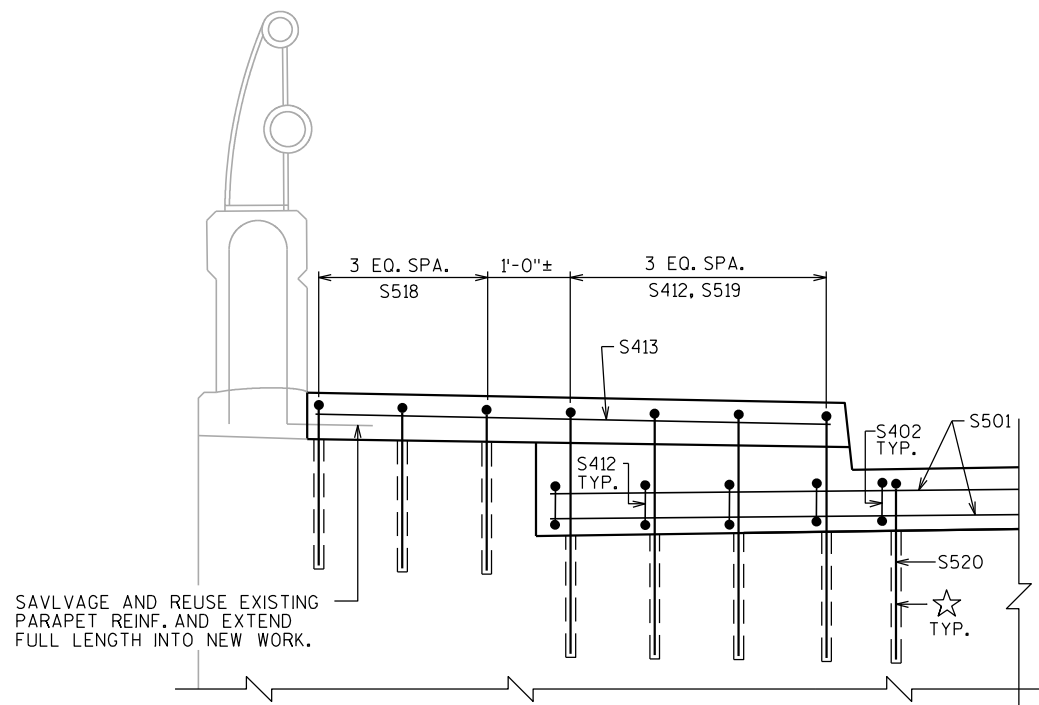
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	48	8'-3"			PAVING BLOCK - HORIZ.
S402	X	104	3'-4"	X		PAVING BLOCK - STIRRUPS
S603	X	14	29'-4"			ABUT. DIAPH. - HORIZ. (STAGE 1)
S604	X	14	29'-4"			ABUT. DIAPH. - HORIZ. (STAGE 2)
S605	X	60	7'-8"			ABUT. DIAPH. - HORIZ. BTWN. GIRDERS 1-4, 5-8
S406	X	100	4'-4"	X		ABUT. DIAPH. - VERT. BTWN. GIRDERS 1-3, 4-7
S407	X	36	7'-4"	X		ABUT. DIAPH. - VERT. BTWN. GIRDERS 3-4, 7-8
S408	X	24	7'-7"			EXPANSION DEVICE - HORIZ.
S609	X	16	6'-6"			SIDEWALK - HORIZ.
S410	X	16	6'-6"			SIDEWALK - HORIZ.
S511	X	16	6'-6"	X		SIDEWALK - HORIZ.
S412	X	16	4'-2"	X		PAVING BLOCK - STIRRUPS - UNDER SIDEWALK
S413	X	8	5'-6"			PAVING BLOCK - HORIZ. - SIDEWALK
S514	X	12	5'-4"	X		PARAPET - VERT.
S415	X	24	7'-8"			ABUT. DIAPH. - HORIZ.
S416	X	8	3'-10"			ABUT. DIAPH. - HORIZ. - CONST. JOINT
S617	X	20	3'-10"			ABUT. DIAPH. - HORIZ. - CONST. JOINT
S518	X	12	2'-7"	X		PAVING BLOCK - L ANCHOR - SIDEWALK
S519	X	16	3'-7"	X		PAVING BLOCK - L ANCHOR - SIDEWALK/BACKWALL
S520	X	104	3'-1"	X		PAVING BLOCK - L ANCHOR - DECK
S521	X	8	3'-2"			PAVING BLOCK AT SIDEWALK
S422	X	8	3'-9"			EXPANSION DEVICE - HORIZ. - CONST. JOINT

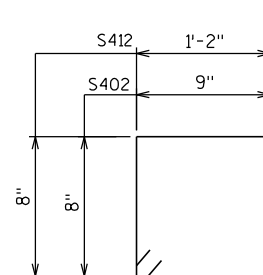
(S01) BAR COUPLERS USED. BAR LENGTH COMPUTED TO CL OF LONGIT. JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS RECOMMENDATIONS.

☆ MASONRY ANCHORS TYPE L NO. 5 BARS. MIN. PULLOUT CAPACITY OF 19 KIPS. EMBED A MINIMUM OF 1'-6" INTO CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT.

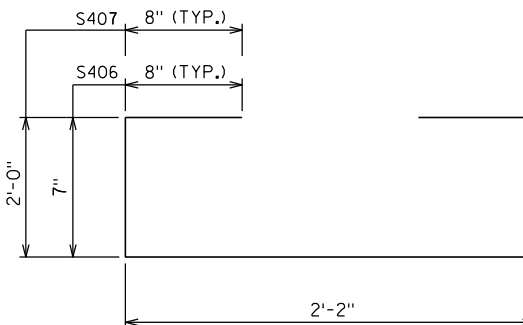


SECTION THRU SIDEWALK JOINT REPAIR

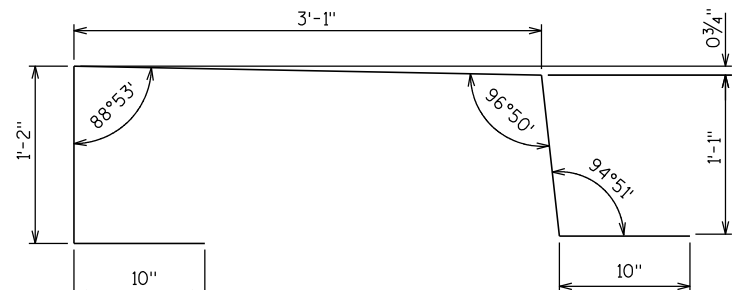
AT ABUTMENT/PAVING BLOCK



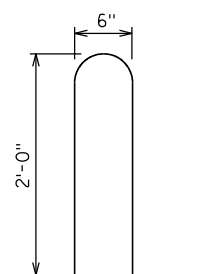
S402, S412



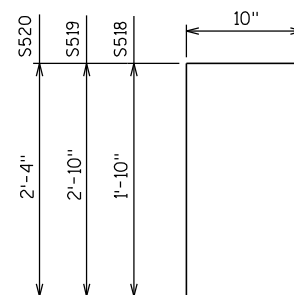
S406, S407



S511

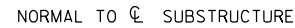


S514

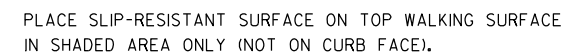
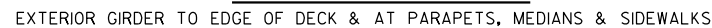


S518, S519, S520

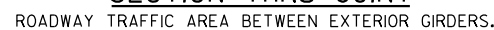
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-73			
DRAWN BY		DVB	PLANS CK'D. BLB
JOINT REPAIR 2			SHEET 4
			99



★ MASONRY ANCHORS TYPE L NO.5 BARS. MIN.PULLOUT CAPACITY OF 19 KIPS. EMBED A MINIMUM OF 1'-6" INTO CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT.



SHADED UNDERSIDE DECK TEMP. (°F)	JOINT OPENING
85°	1½"
75°	1¾"
65°	1⅞"
55°	2⅞"
45°	2¼"
35°	2⅝"
25°	2⅞"
15°	2¾"
5°	3"



STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE
WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-27-73".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-73			
		DRAWN BY	DVB
		PLANS CK'D.	BLB
EXP. DEVICE AND COVER PLATE		SHEET 5	
		100	

GENERAL NOTES

THE RESETTING OF THE RAIL POSTS AND THE NEW ANCHOR BOLTS AND SHIMS SHALL BE INCLUDED UNDER THE BID ITEM "REMOVE AND RESET TUBULAR RAILING SPECIAL B-27-73".

THE SHANK AND ROOT DIAMETER OF THREAD FOR ANCHOR BOLTS SHALL BE A MIN. OF $\frac{5}{8}$ ".

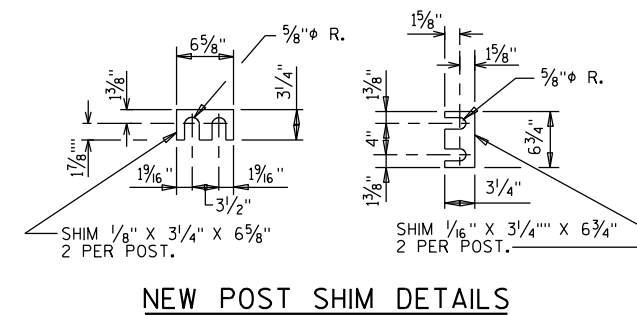
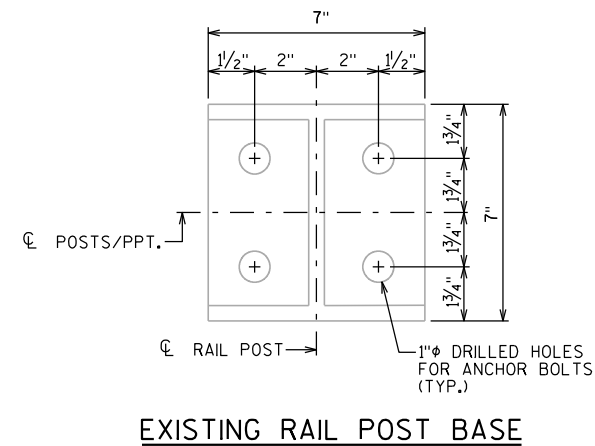
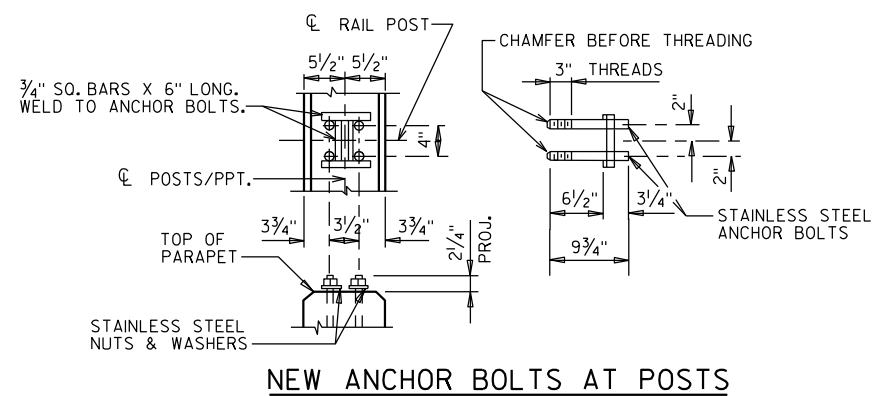
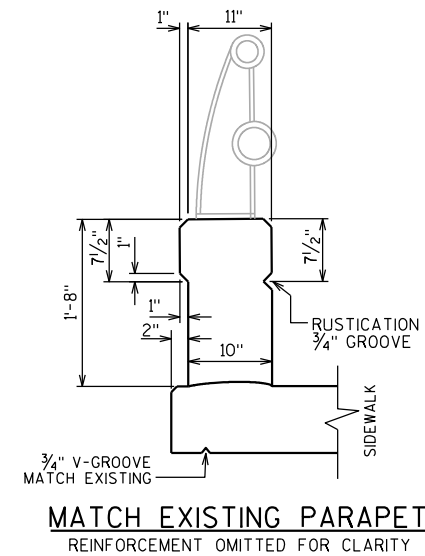
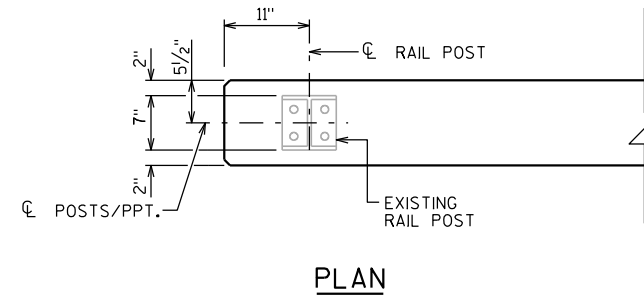
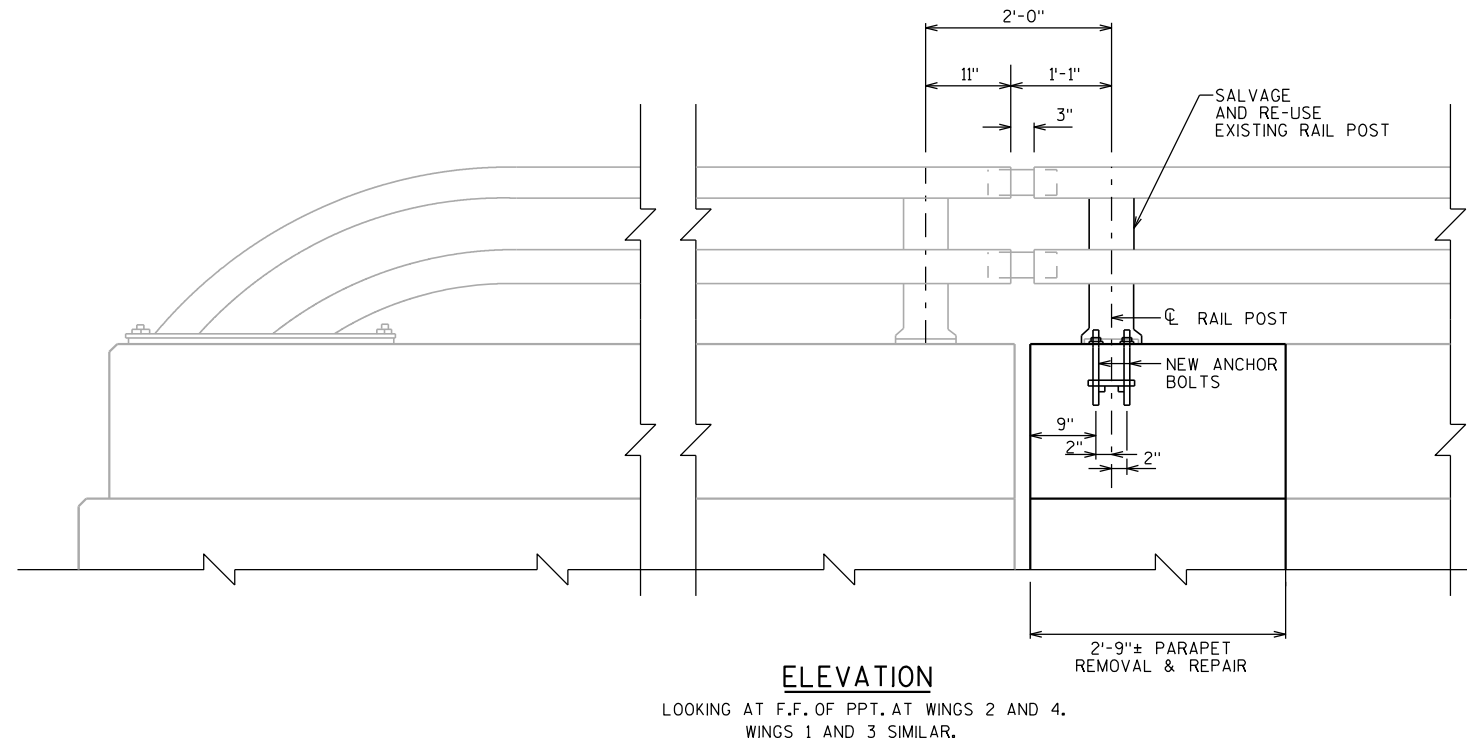
ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.

SHIMS SHALL CONFORM TO SAME MATERIAL AS POSTS. (ALUMINUM)

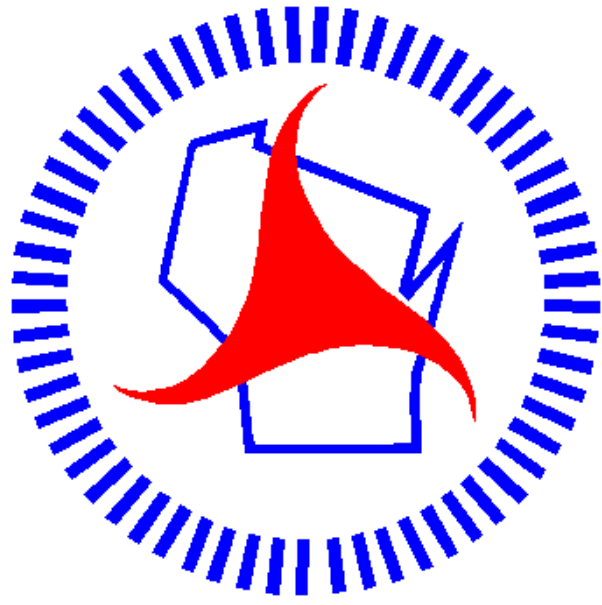
RAILING POSTS SHALL BE SET NORMAL TO GRADE LINE.

SHIMS SHALL BE USED UNDER POSTS AND END PLATES WHERE REQ'D. FOR ALIGNMENT.

FILL ALL EXPOSED OPENINGS BETWEEN SHIMS AND POST ANCHOR BOLT HOLES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-27-73			
DRAWN BY		DVB	PLANS CK'D. BLB
PARAPET AND RAILING DETAILS			SHEET 6
			101



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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 = 66

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CITY OF BLACK RIVER FALLS, MAIN ST.

(11TH STREET - USH 12)

STH 54

JACKSON COUNTY

STATE PROJECT NUMBER
7550-03-72BEGIN PROJECT
STA. 2+40END PROJECT
STA. 46+50

DESIGN DESIGNATION

A.A.D.T. 2013	=	10000
A.A.D.T. 2033	=	12000
D.H.V. 2033	=	1260
D.D.	=	58/42
T.	=	8.0% OF A.A.D.T.
DESIGN SPEED	=	POSTED SPEED
ESALS	=	1,934,500

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	
SWAMP AREA	
WOODED OR SHRUB AREA	

PROFILE

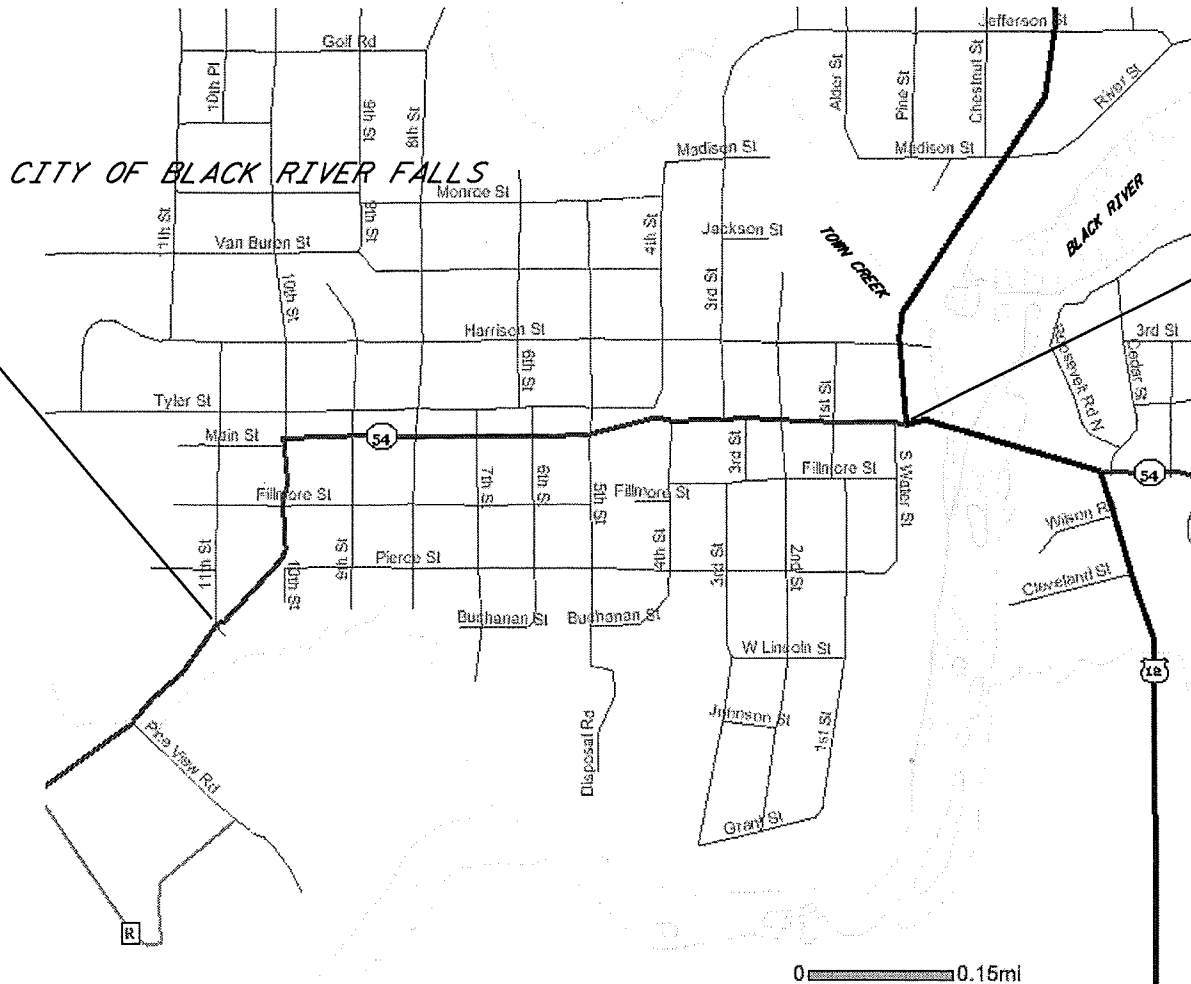
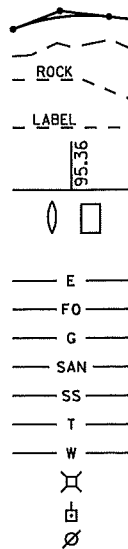
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

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



0 0.15mi

LAYOUT
SCALE 0 0.10 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.835 MI.

ACCEPTED FOR

CITY of BLACK RIVER FALLS

10/05/12
(Date)

Widig
(Signature & Title of Official)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NW REGION - EAU CLAIRE
Designer	K. KOPACZ
Project Manager	C. HINES
Regional Examiner	D. OJIBWAY
Regional Supervisor	R. SHERMO
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 10/23/12
(Signature)

E

UTILITIES CONTACTS

CENTURYLINK OF CENTRAL WI
MS. DONNA SMOTHERS
835 RED IRON RD.
BLACK RIVER FALLS, WI 54615
PHONE: 715-284-4375



Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

OTHER CONTACTS

WISCONSIN D.N.R.
MS. KAREN KALVELAGE
3550 MORMON COULEE RD.
LA CROSSE, WI 54601
PHONE: 608-785-9115
EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

CITY OF BLACK RIVER FALLS - STREET DEPT.
MR. TODD GOMER
101 S. 2ND ST.
BLACK RIVER FALLS, WI 54615
PHONE: 715-299-0369 / 715-284-2315

GENERAL NOTES

THE LOCATIONS OF EXISTING & PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE COUNTY SURVEYOR CONCERNING MONUMENT AND PROPERTY CORNER PRESERVATION.

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. SLOPES AND DISTANCES MAY VARY WITHIN THE STATION LIMITS.

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

THE EXACT LOCATIONS OF BUTT JOINTS AND CONCRETE PAVEMENT REPAIR/REPLACEMENT ARE TO BE DETERMINED BY THE ENGINEER.

THE EXACT LOCATIONS OF MANHOLE COVER ADJUSTMENTS ARE TO BE DETERMINED BY THE ENGINEER.

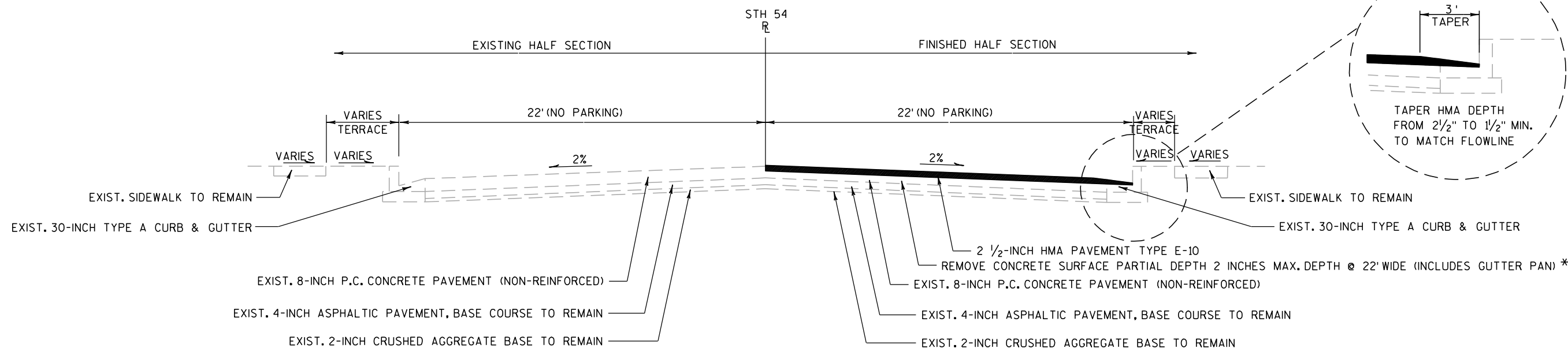
THE 2 1/2 INCH HMA PAVEMENT SHALL BE PLACED WITH A 1 INCH LEVELING LAYER AND A 1 1/2 INCH UPPER LAYER. BOTH LAYERS SHALL BE A 9.5mm MIX.

HMA PAVEMENT LONGITUDINAL CONSTRUCTION JOINTS SHALL NOT BE LOCATED WITHIN A TRAVEL LANE.

LOCATIONS FOR PERMANENT SIGNS SHOWN ON THE PLAN ARE APPROXIMATE. ACTUAL LOCATIONS OF PERMANENT SIGNS ARE TO BE COORDINATED IN THE FIELD BY THE ENGINEER.

PERMANENT PAVEMENT MARKING ON STH 54 FROM 11TH ST. TO 5TH ST. SHALL BE PLACED SUCH THAT THE TWO-WAY LEFT TURN LANE (TWLTL) IS 14' WIDE CENTERED ON ROADWAY CENTERLINE.

MARK EXISTING LOCATIONS OF PARKING STALL MARKINGS PRIOR TO REMOVAL. REESTABLISH PARKING STALL MARKINGS AT EXISTING LOCATIONS.

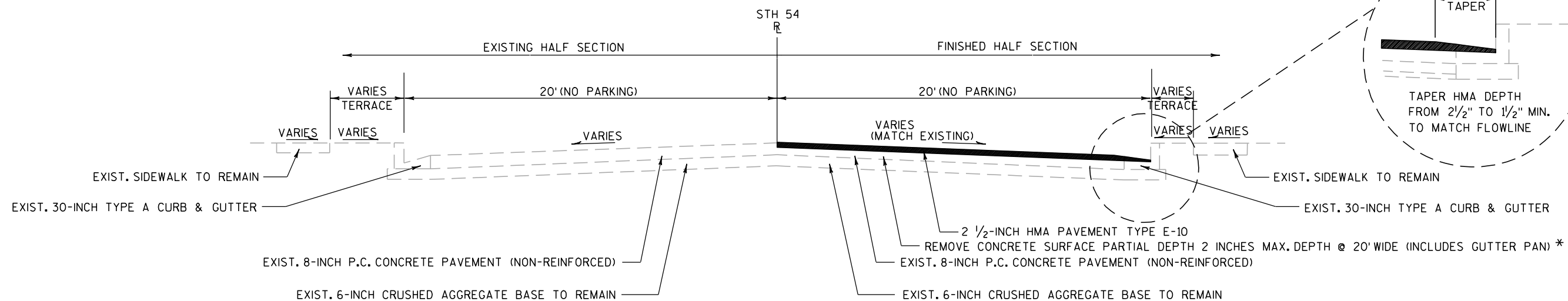


* SEE DETAIL FOR WORK AROUND EXISTING INLETS

EXISTING/FINISHED TYPICAL SECTION, STH 54

STA. 2±40 TO STA. 30±50
(11TH ST. TO 5TH ST.)

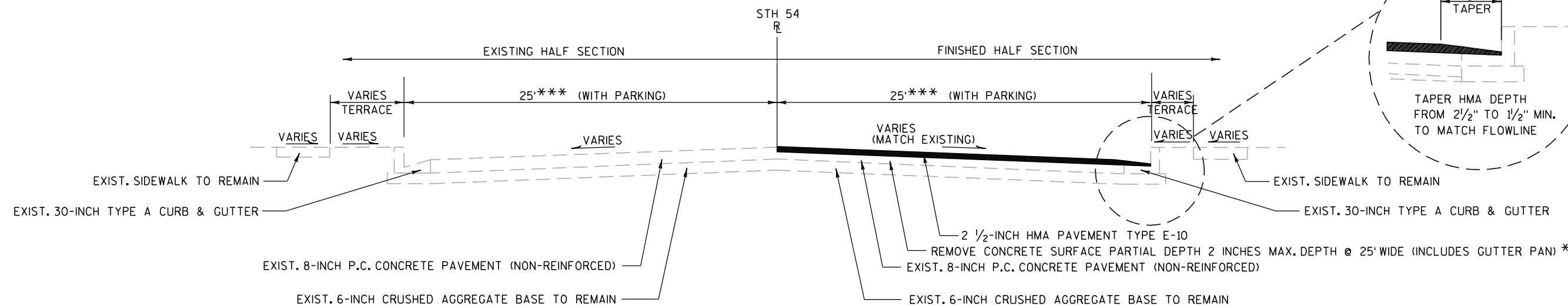
NOTE: PERMANENT PAVEMENT MARKING ON THIS SECTION OF STH 54 FROM 11TH ST. TO 5TH ST. SHALL BE RESTRIPTED TO A THREE LANE ROADWAY WITH A TWO-WAY LEFT TURN LANE. (SEE PAVEMENT MARKING PLAN)



* SEE DETAIL FOR WORK AROUND EXISTING INLETS

EXISTING/FINISHED TYPICAL SECTION, STH 54

STA. 30±50 TO STA. 34±50
(5TH ST. TO 4TH ST.)



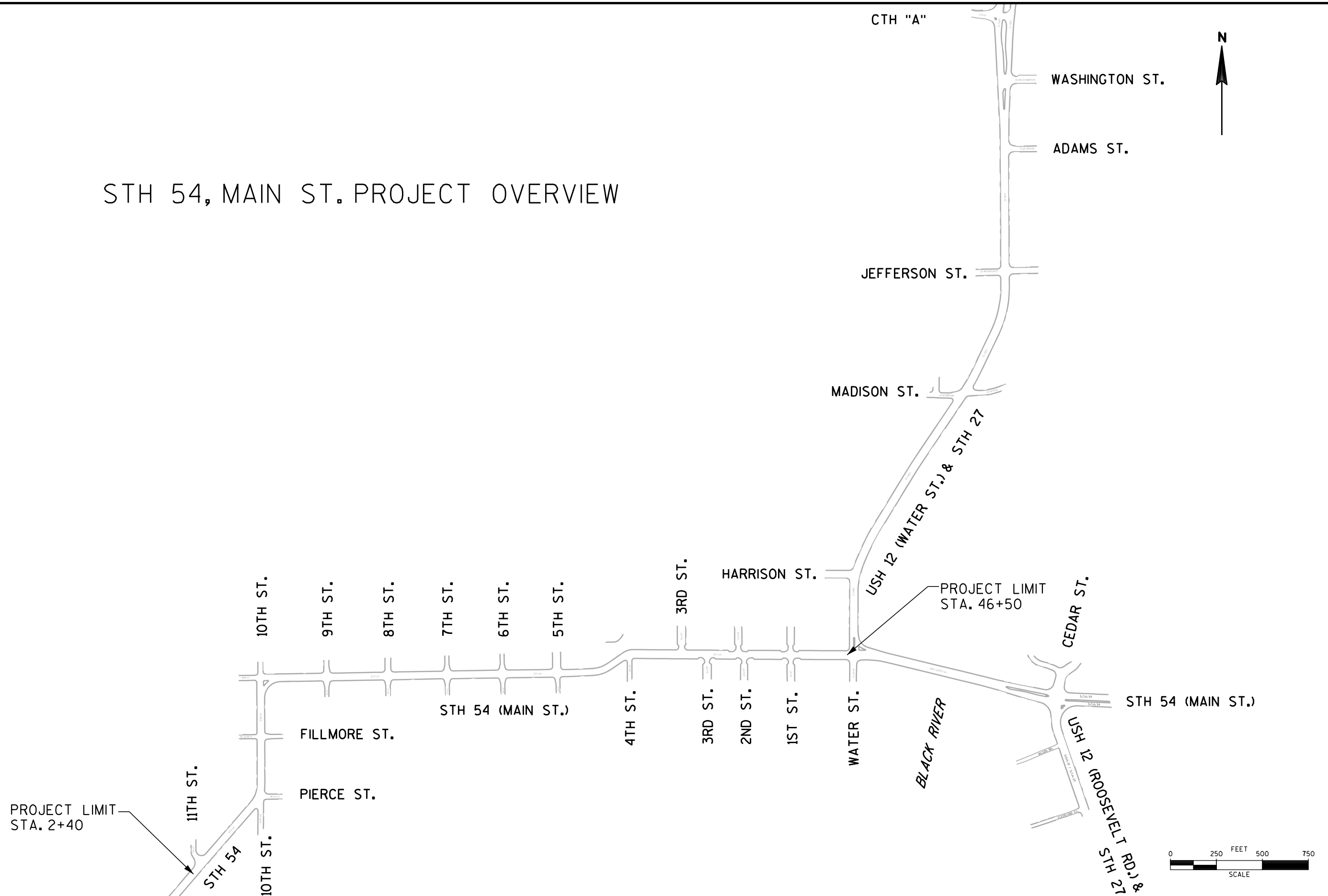
* SEE DETAIL FOR WORK AROUND EXISTING INLETS

EXISTING/FINISHED TYPICAL SECTION, STH 54

STA. 34±50 TO STA. 46±50
(4TH ST. TO USH 12, WATER ST.)

*** WIDTH NARROWS AT THE 3RD ST., 2ND ST., AND 1ST ST. INTERSECTION AREAS.
WIDTH IS 18' WITH NO PARKING AT THE INTERSECTION AREAS.

STH 54, MAIN ST. PROJECT OVERVIEW



PROJECT NO: 7550-03-72

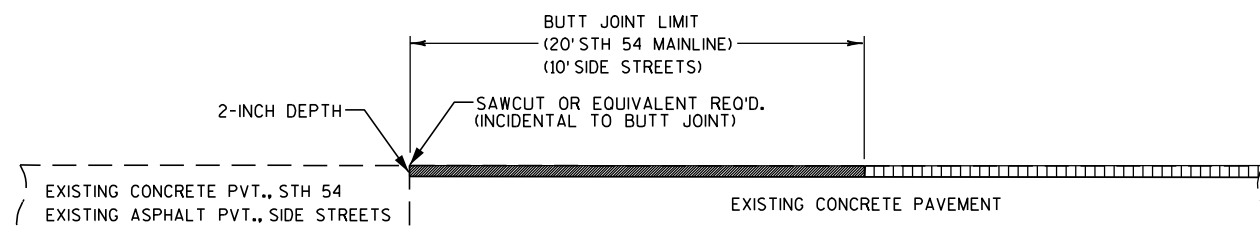
HWY: STH 54

COUNTY: JACKSON

PROJECT OVERVIEW

SHEET NO: 4

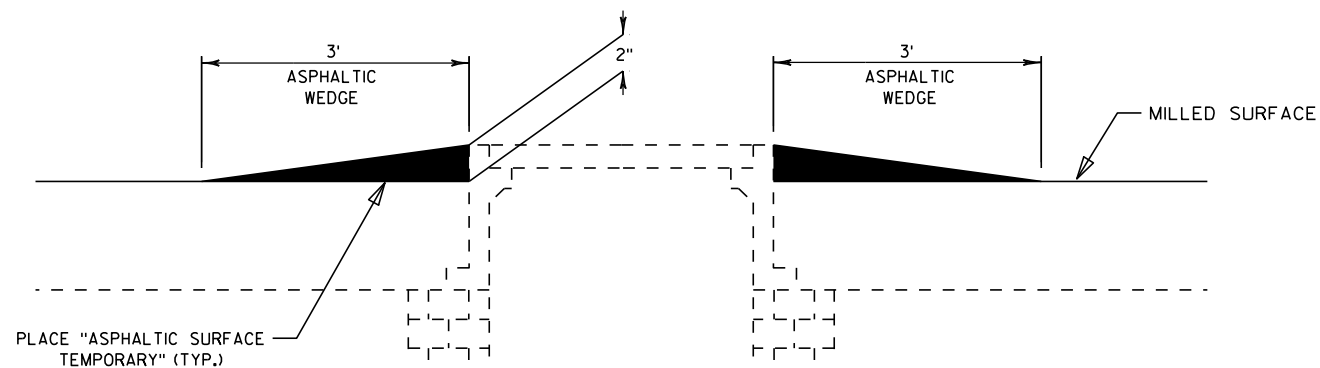
E



□□□□□ REMOVING CONCRETE SURFACE PARTIAL DEPTH
▨ REMOVING PAVEMENT BUTT JOINTS

BUTT JOINT DETAIL

STA. 2+40, STH 54 MAINLINE
STA. 46+50, STH 54 MAINLINE
SIDE STREETS

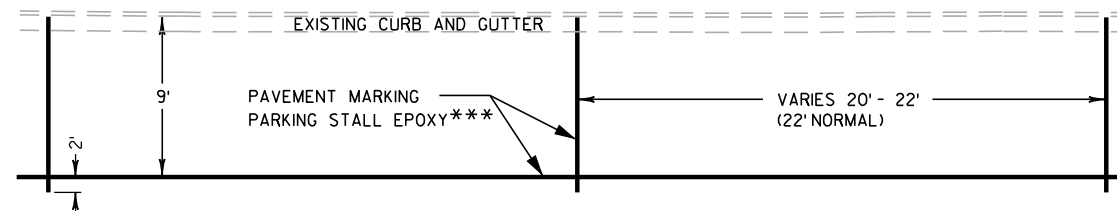


NOTE:

REMOVAL OF ASPHALTIC WEDGES WILL BE INCIDENTAL
TO "PREPARE FOUNDATION FOR ASPHALTIC PAVING SPECIAL"

TEMPORARY WEDGES DETAIL (MANHOLES)

NOTE: PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING TO TRAFFIC ON MILLED SURFACE



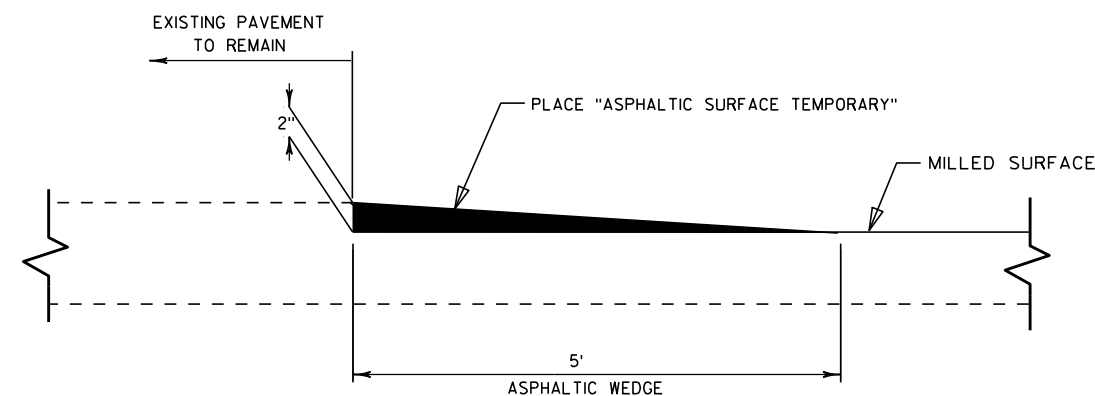
STH 54, MAIN ST.

CENTERLINE STH 54, MAIN ST.

*** MARK EXISTING LOCATIONS OF PARKING STALL MARKINGS PRIOR TO REMOVAL. REESTABLISH PARKING STALL MARKINGS AT EXISTING LOCATIONS.

PAVEMENT MARKING PARKING STALL DETAIL

STA. 35+00 - 46+50, STH 54 MAINLINE



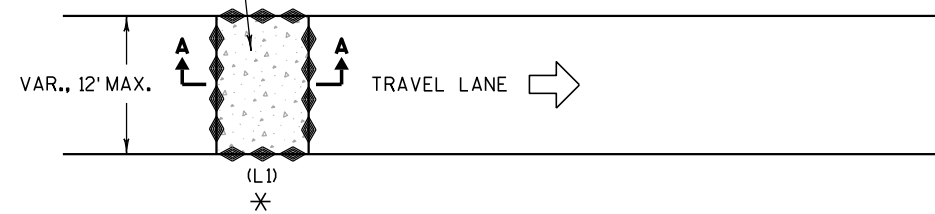
NOTE:

REMOVAL OF ASPHALTIC WEDGES WILL BE INCIDENTAL
TO "PREPARE FOUNDATION FOR ASPHALTIC PAVING SPECIAL"

TEMPORARY WEDGES DETAIL (MATCH POINTS)

NOTE: PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING TO TRAFFIC ON MILLED SURFACE

CONCRETE PAVEMENT
REPAIR/REPLACEMENT
NON DOWELED SPECIAL



PLAN VIEW

* (L1) = 4' - 8' TYP. OR AS DIRECTED BY THE ENGINEER.
0'-15' IS REPAIR. GREATER THAN 15' IS REPLACEMENT.



CONCRETE PAVEMENT REPAIR/REPLACEMENT NON DOWELED SPECIAL



SAWING CONCRETE

EXISTING SURFACE

EXISTING 8"-9" CONCRETE PAVEMENT

EXISTING CRUSHED AGGREGATE
BASE COURSE TO REMAIN

*
(L1)

SAWING CONCRETE

EXISTING 8"-9" CONCRETE PAVEMENT

SECTION A-A

NOTES:

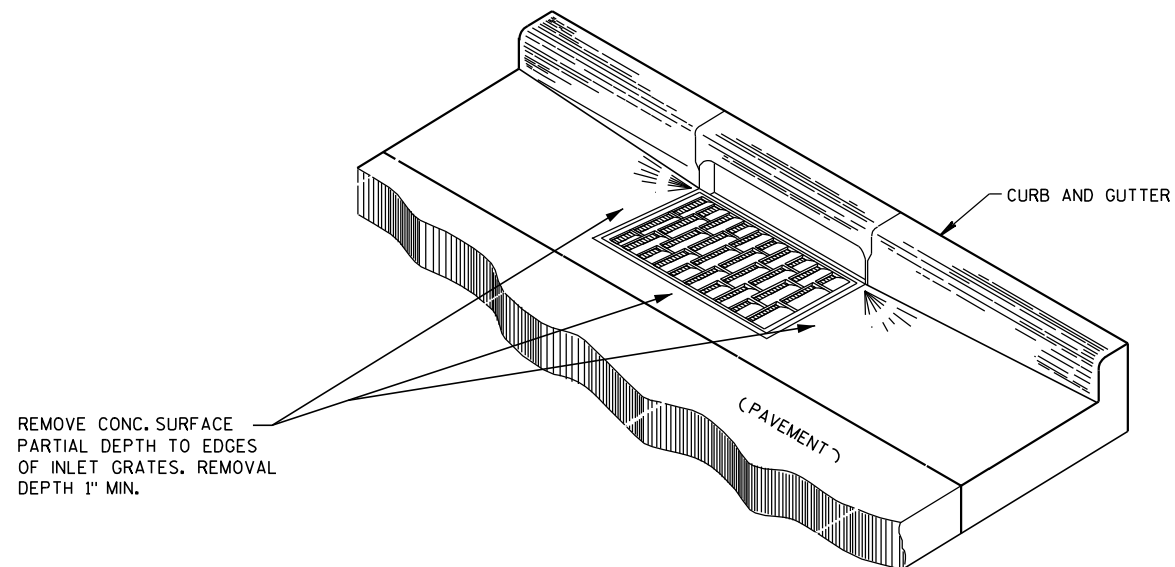
CONSTRUCT CONCRETE PAVEMENT REPAIR/REPLACEMENT PRIOR
TO HMA OVERLAY.

THICKNESS OF CONCRETE REPAIR/REPLACEMENT VARIES.
8" - 9" THICKNESS IS EXPECTED.

DAMAGE TO EITHER EXISTING PAVEMENTS OR EXISTING SHOULDERS
SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND WILL BE
INCIDENTAL TO THE ITEMS OF "CONCRETE PAVEMENT REPAIR
NON DOWELED SPECIAL" AND "CONCRETE PAVEMENT REPLACEMENT
NON DOWELED SPECIAL."

CONCRETE PAVEMENT REPAIR/REPLACEMENT NON DOWELED SPECIAL DETAIL

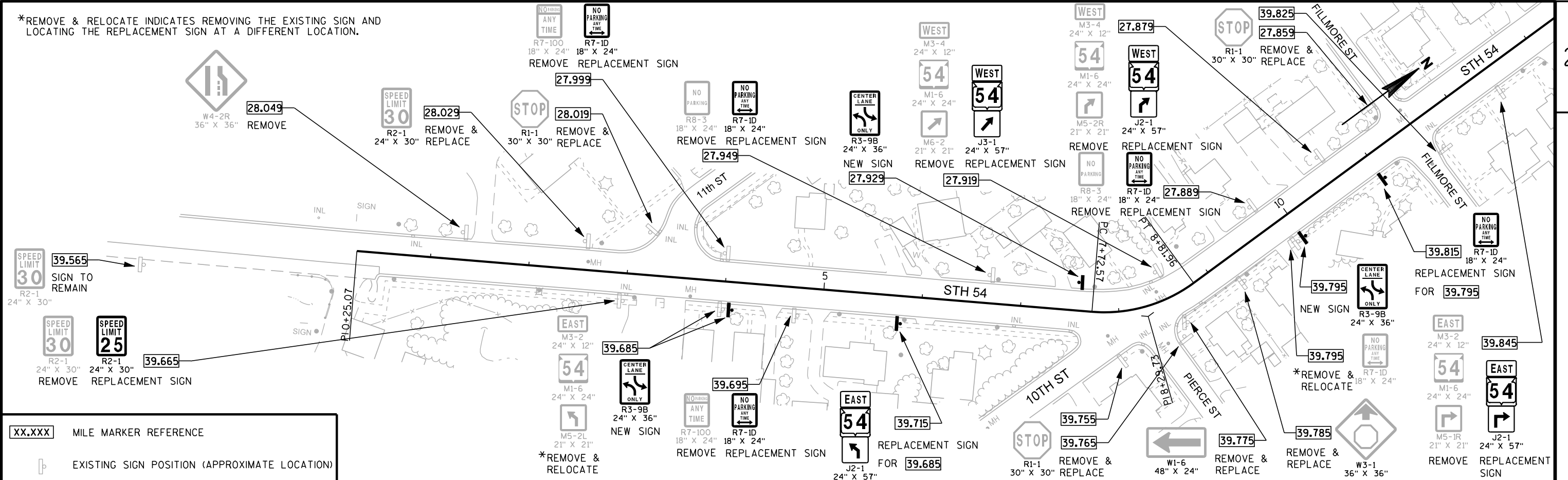
LOCATIONS TO BE DETERMINED BY THE ENGINEER.



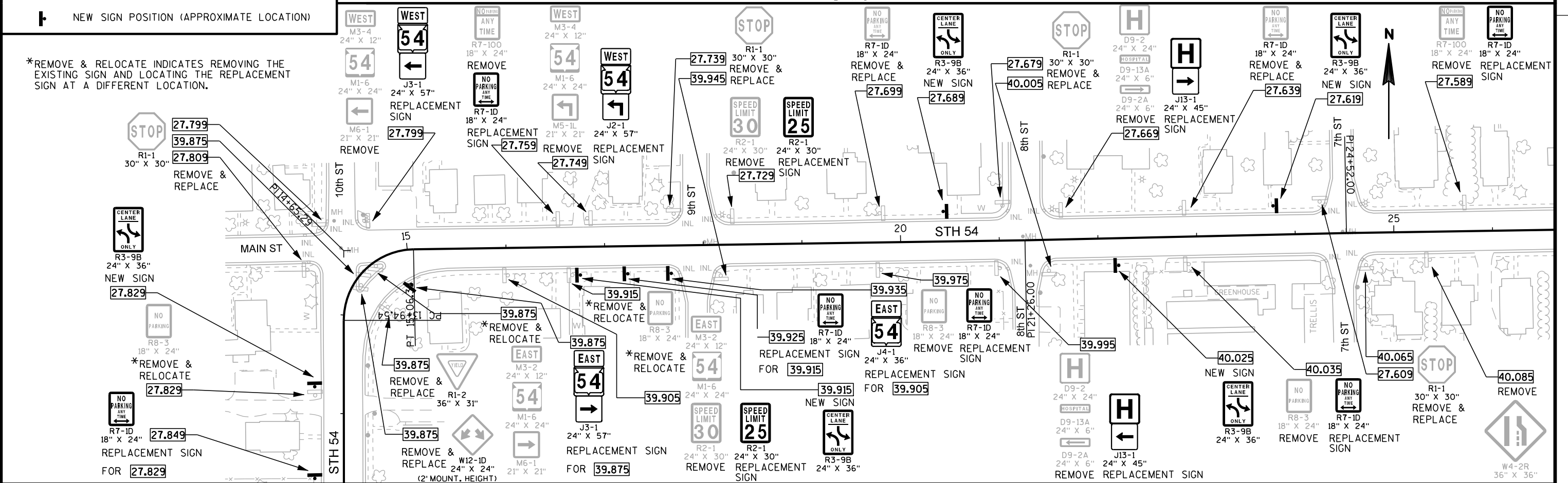
SURFACE REMOVAL AT EXISTING INLETS DETAIL

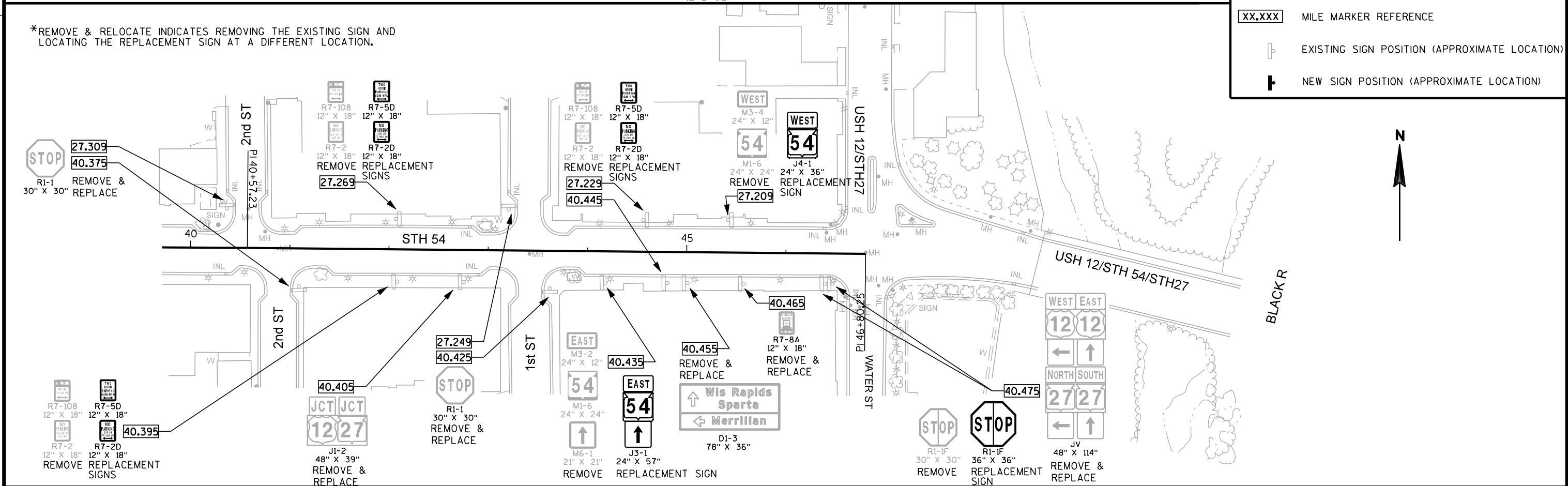
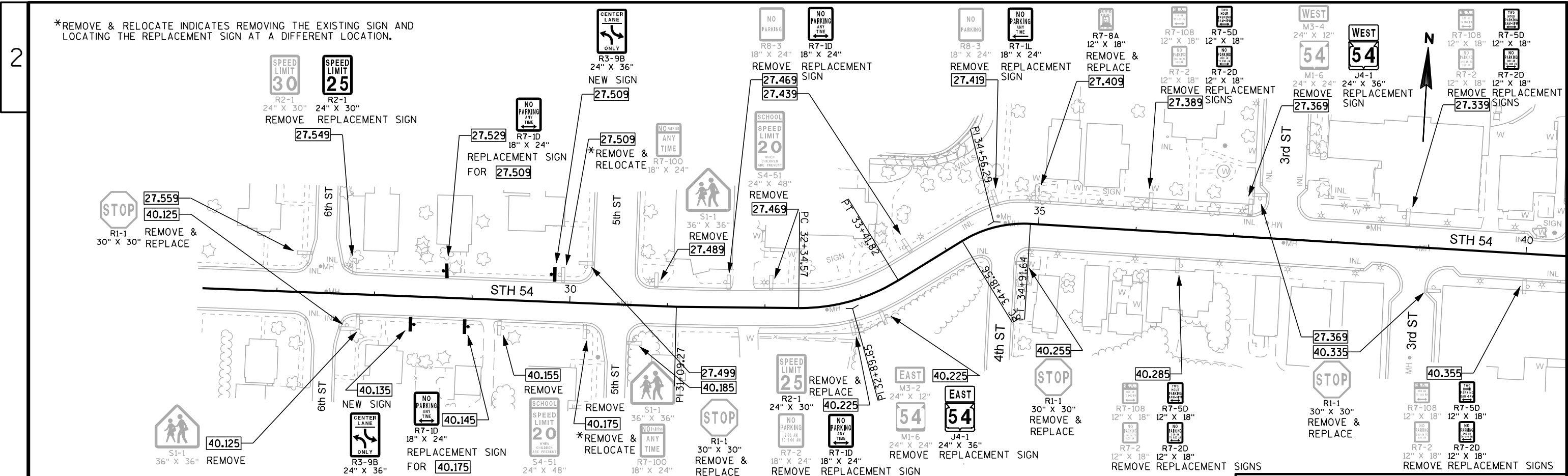
*REMOVE & RELOCATE INDICATES REMOVING THE EXISTING SIGN AND LOCATING THE REPLACEMENT SIGN AT A DIFFERENT LOCATION.

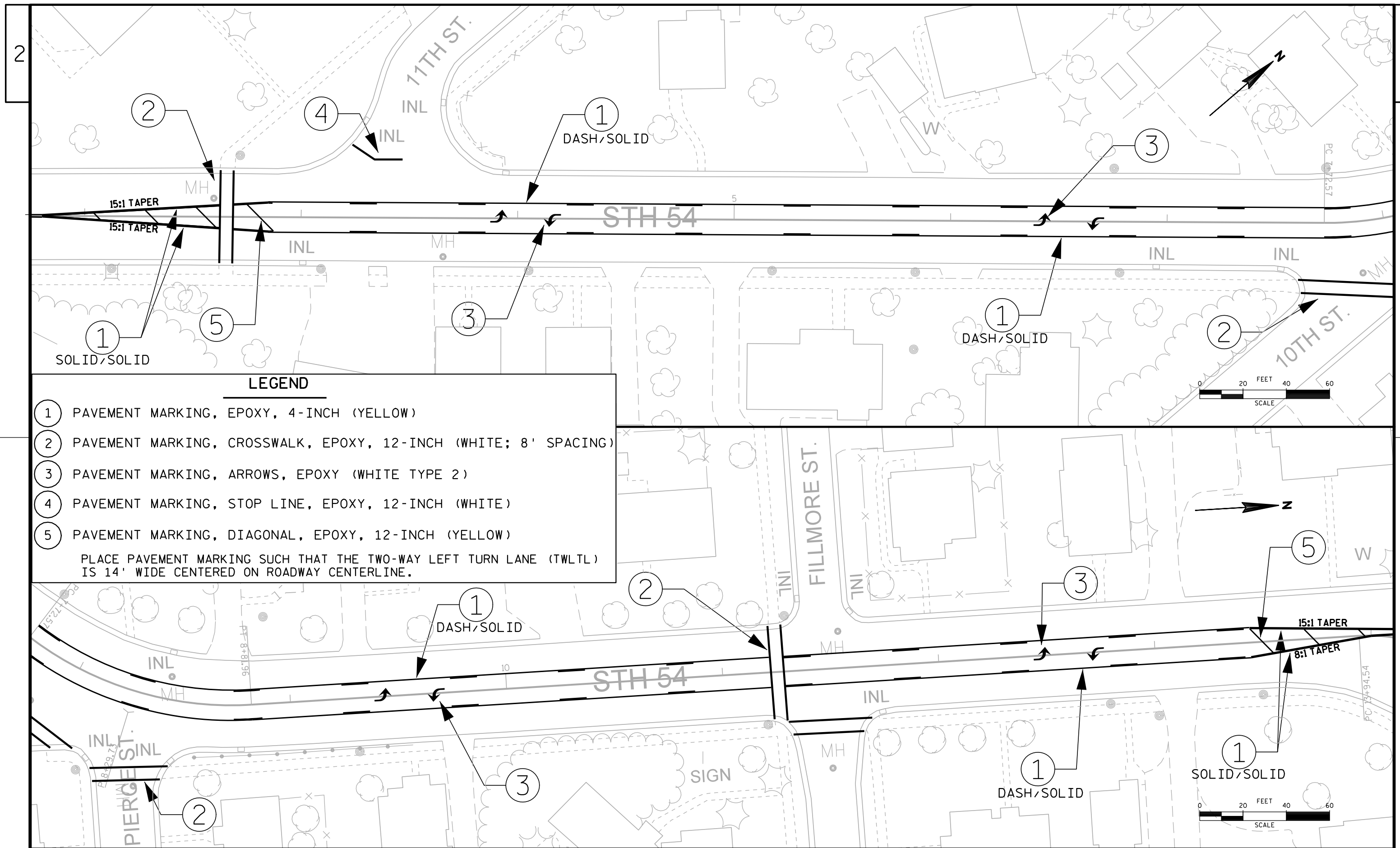
2



*REMOVE & RELOCATE INDICATES REMOVING THE EXISTING SIGN AND LOCATING THE REPLACEMENT SIGN AT A DIFFERENT LOCATION.



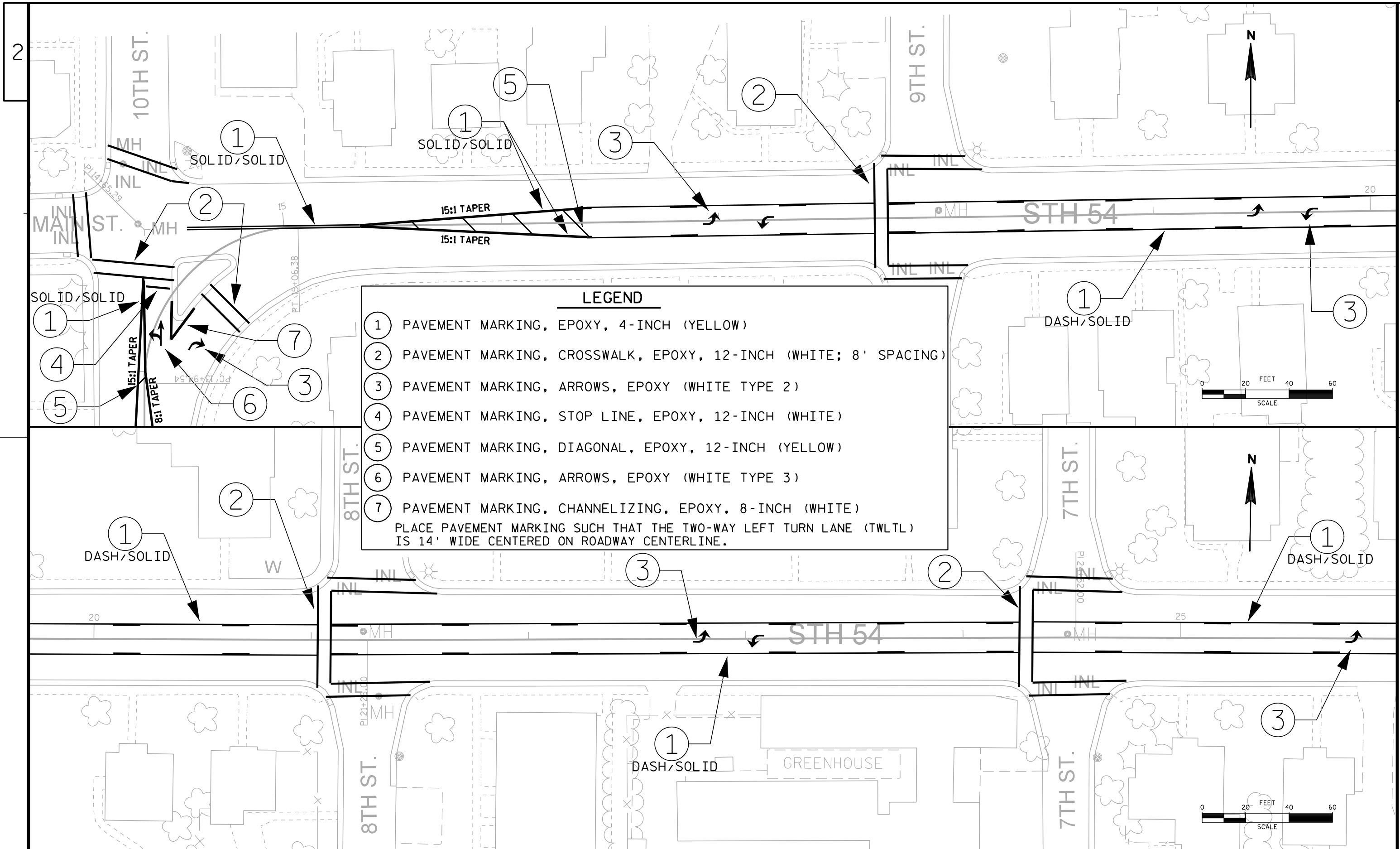


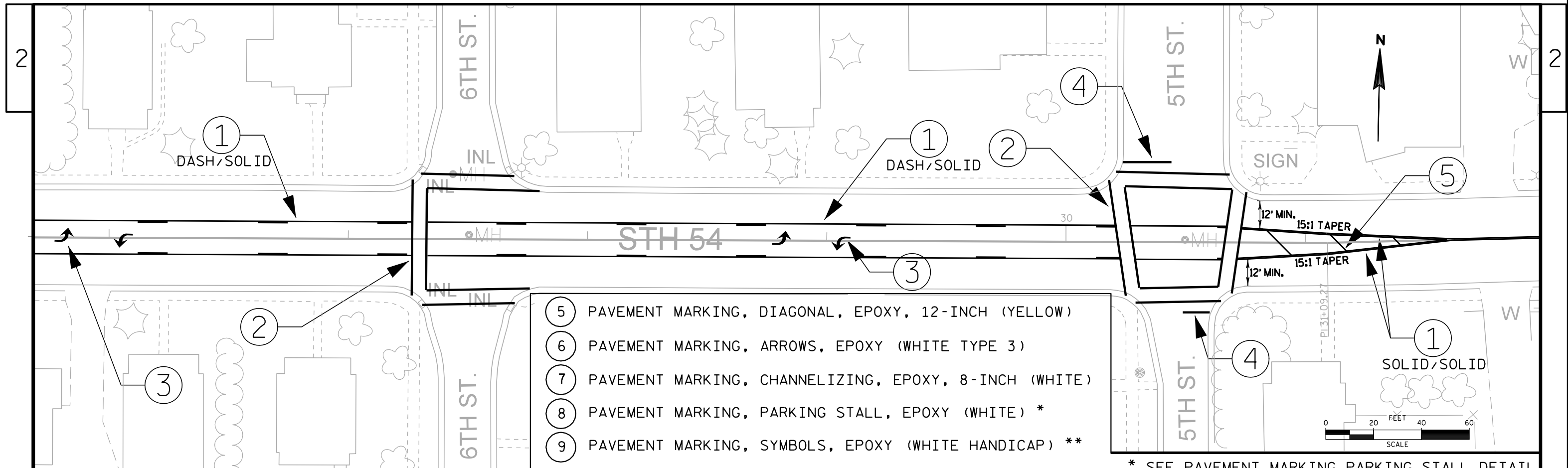


LEGEND

- ① PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW)
- ② PAVEMENT MARKING, CROSSWALK, EPOXY, 12-INCH (WHITE; 8' SPACING)
- ③ PAVEMENT MARKING, ARROWS, EPOXY (WHITE TYPE 2)
- ④ PAVEMENT MARKING, STOP LINE, EPOXY, 12-INCH (WHITE)
- ⑤ PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH (YELLOW)

PLACE PAVEMENT MARKING SUCH THAT THE TWO-WAY LEFT TURN LANE (TWLTL) IS 14' WIDE CENTERED ON ROADWAY CENTERLINE.





LEGEND

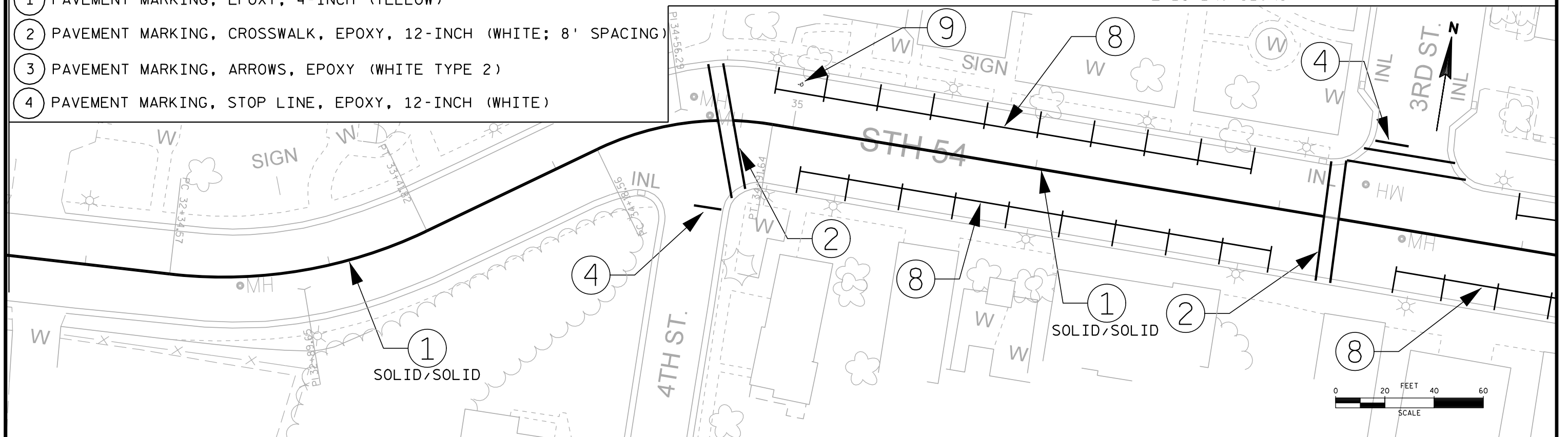
- 1 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW)
- 2 PAVEMENT MARKING, CROSSWALK, EPOXY, 12-INCH (WHITE; 8' SPACING)
- 3 PAVEMENT MARKING, ARROWS, EPOXY (WHITE TYPE 2)
- 4 PAVEMENT MARKING, STOP LINE, EPOXY, 12-INCH (WHITE)

- 5 PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH (YELLOW)
- 6 PAVEMENT MARKING, ARROWS, EPOXY (WHITE TYPE 3)
- 7 PAVEMENT MARKING, CHANNELIZING, EPOXY, 8-INCH (WHITE)
- 8 PAVEMENT MARKING, PARKING STALL, EPOXY (WHITE) *
- 9 PAVEMENT MARKING, SYMBOLS, EPOXY (WHITE HANDICAP) **

PLACE PAVEMENT MARKING SUCH THAT THE TWO-WAY LEFT TURN LANE (TWLTL) IS 14' WIDE CENTERED ON ROADWAY CENTERLINE.

* SEE PAVEMENT MARKING PARKING STALL DETAIL

** HANDICAP STALLS ARE IDENTIFIED BY EXISTING SIGNS



PROJECT NO: 7550-03-72

HWY: STH 54

COUNTY: JACKSON

PAVEMENT MARKING PLAN (NOT TO SCALE)

SHEET NO:

E

FILE NAME : c:\Users\PROJECTS\06\54\AND12\54\AND12\024505_plm18.DGN

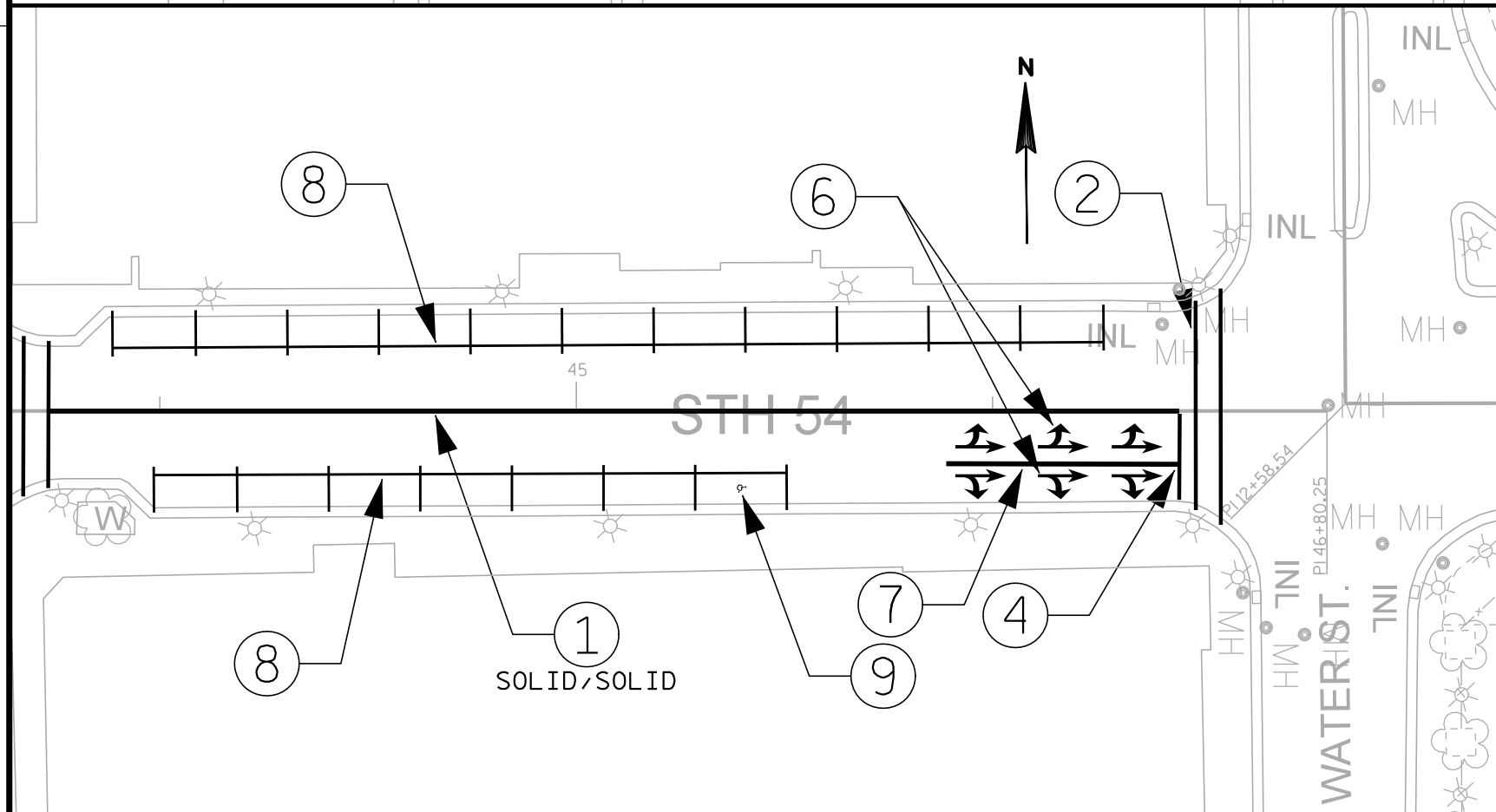
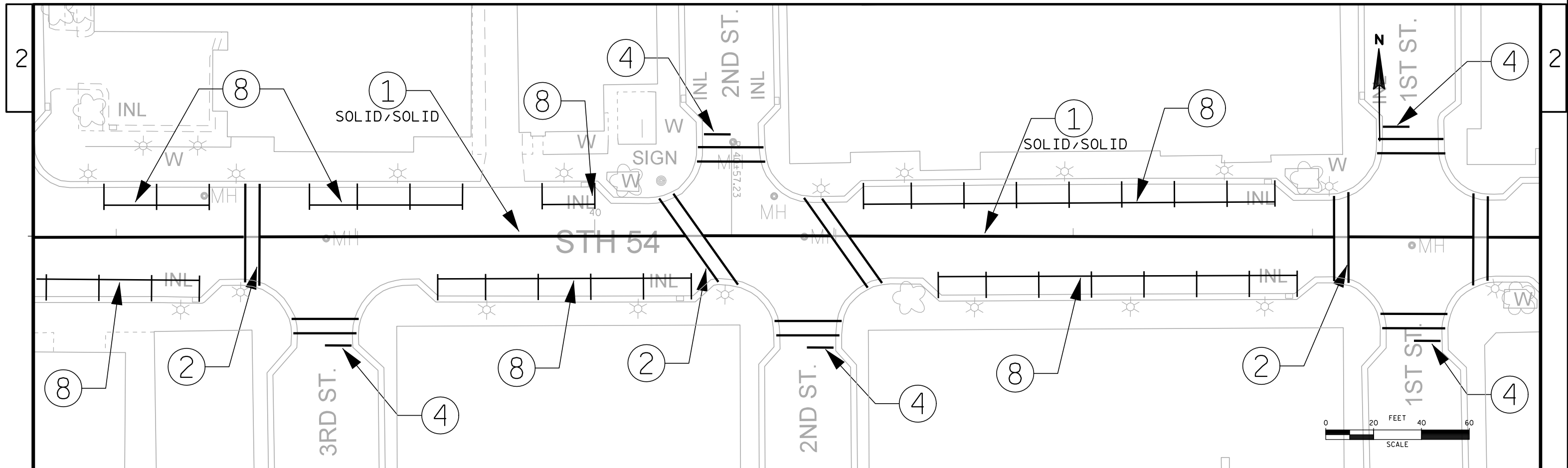
PLOT DATE : 22-OCT-2012 10:30

PLOT BY : DOTKYK

PLOT NAME :

PLOT SCALE : 40:1

11

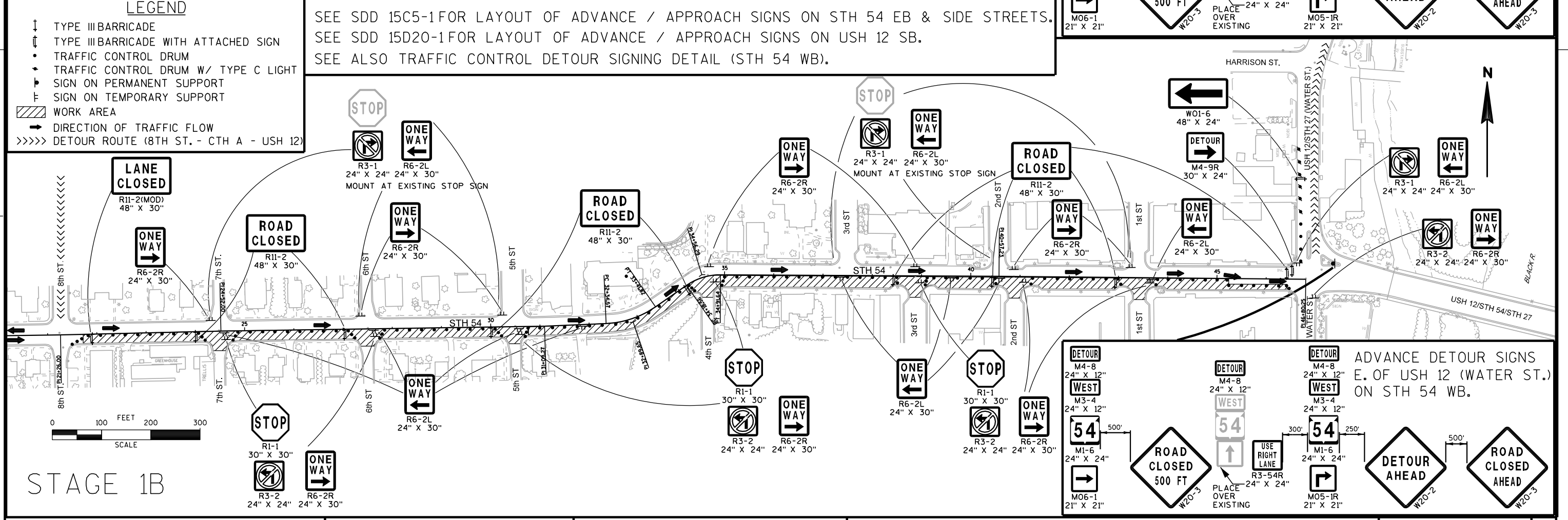
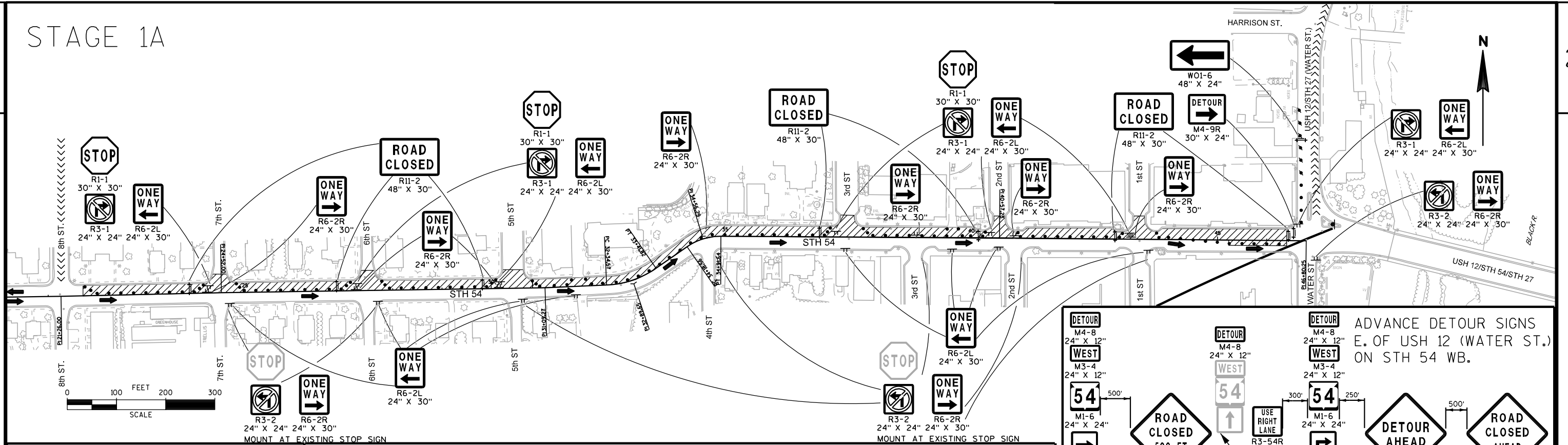


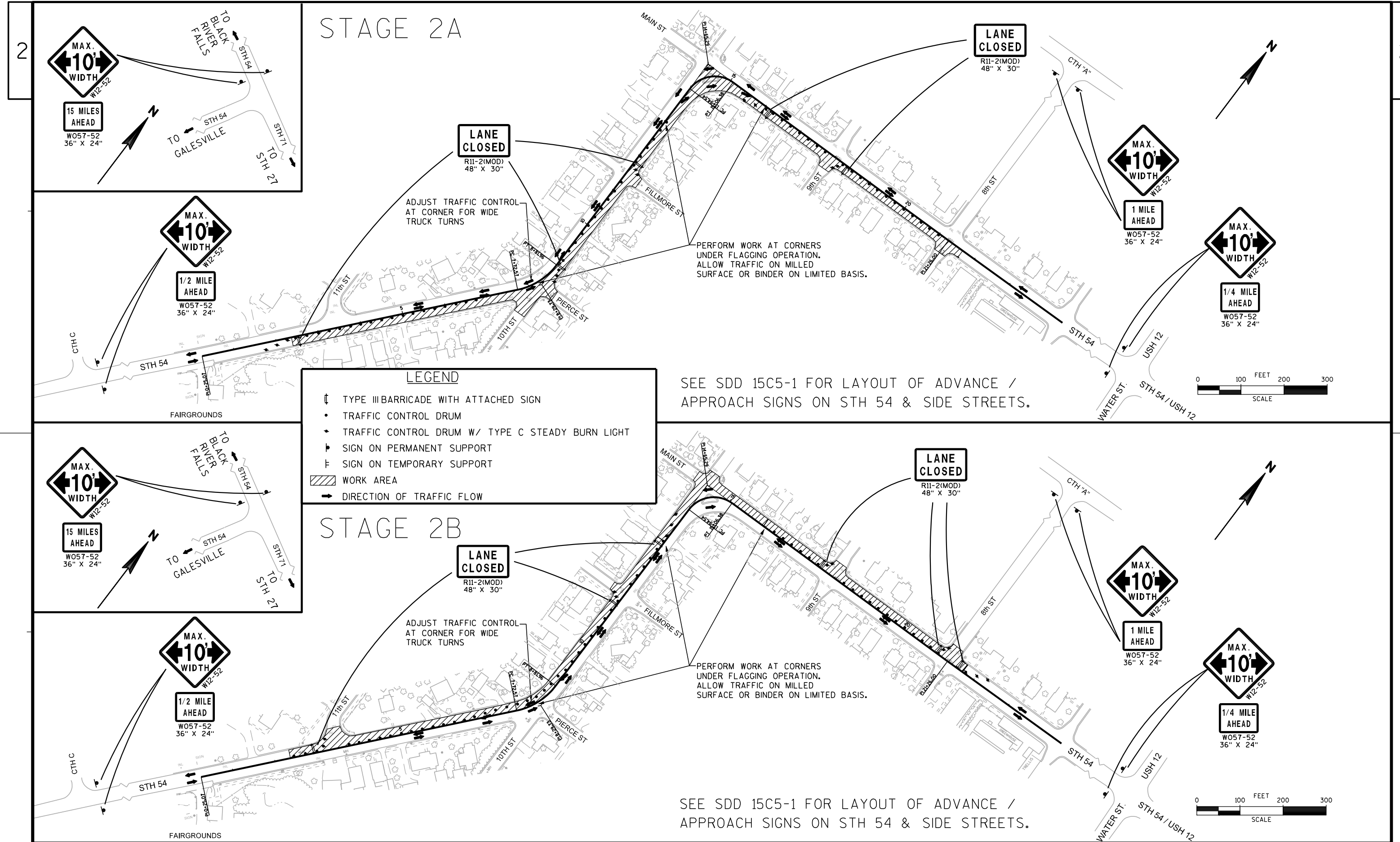
LEGEND	
①	PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW)
②	PAVEMENT MARKING, CROSSWALK, EPOXY, 12-INCH (WHITE; 8' SPACING)
③	PAVEMENT MARKING, ARROWS, EPOXY (WHITE TYPE 2)
④	PAVEMENT MARKING, STOP LINE, EPOXY, 12-INCH (WHITE)
⑤	PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH (YELLOW)
⑥	PAVEMENT MARKING, ARROWS, EPOXY (WHITE TYPE 3)
⑦	PAVEMENT MARKING, CHANNELIZING, EPOXY, 8-INCH (WHITE)
⑧	PAVEMENT MARKING, PARKING STALL, EPOXY (WHITE) *
⑨	PAVEMENT MARKING, SYMBOLS, EPOXY (WHITE HANDICAP) **
* SEE PAVEMENT MARKING PARKING STALL DETAIL	
** HANDICAP STALLS ARE IDENTIFIED BY EXISTING SIGNS	

STAGE 1A

2

2





PROJECT NO: 7550-03-72

HWY: STH 54

COUNTY: JACKSON

TRAFFIC CONTROL DETAIL (11TH ST. TO 8TH ST.)

SHEET NO:

14

E

FILE NAME : c:\Users\PROJECTS\6454AND12\54AND12\025016-1c-11thto8th.DGN

PLOT DATE : 21-AUG-2012 07:21

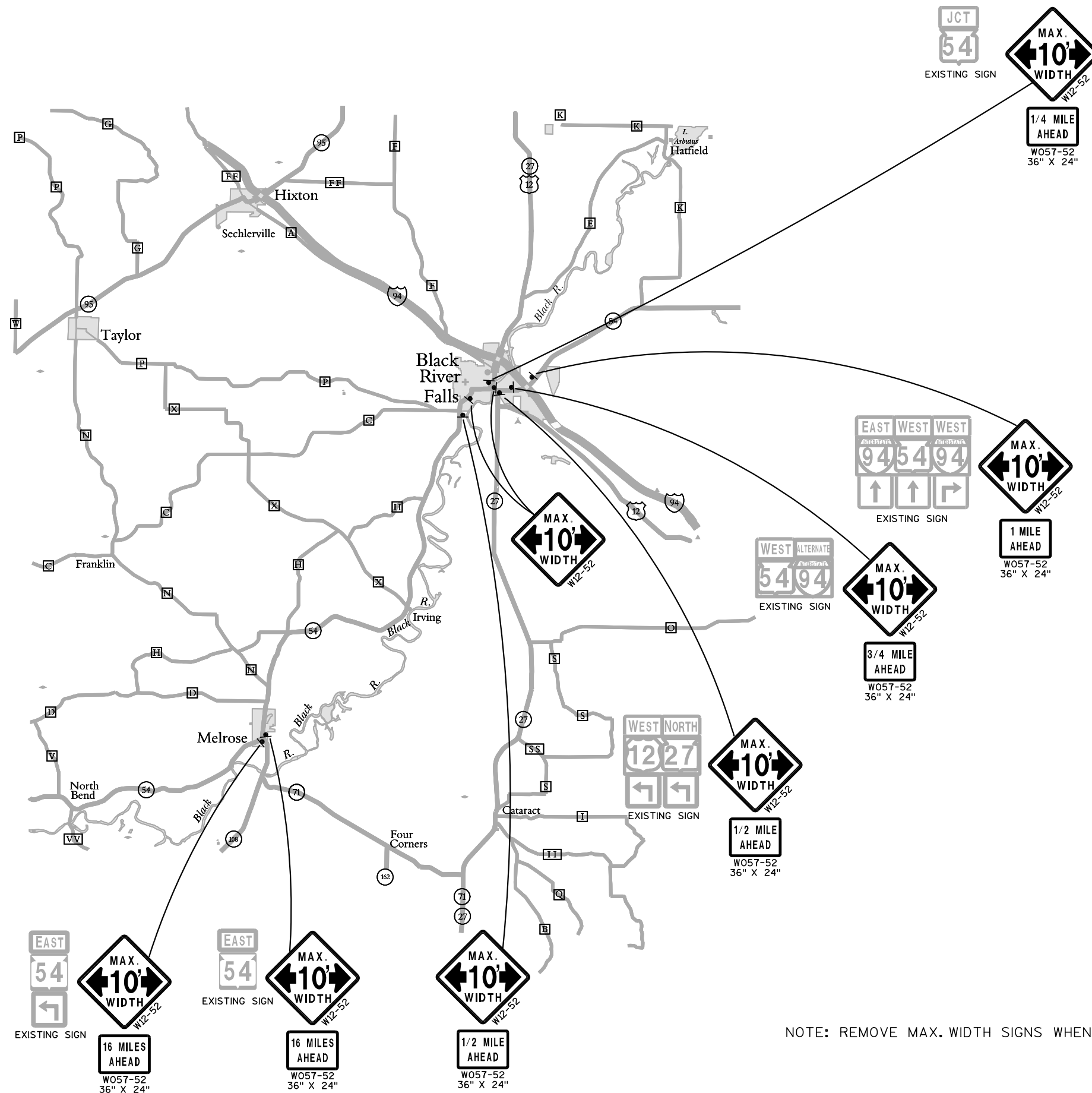
PLOT BY : dotkyk

PLOT NAME :

PLOT SCALE : 2:1

	DETOUR ROUTE
	WORK ZONE
	EXISTING SIGN TO REMAIN
	PROPOSED POST MOUNTED SIGN
	BARRICADE TYPE III W/SIGN





NOTE: REMOVE MAX. WIDTH SIGNS WHEN NOT APPLICABLE.

3

DATE 13FEB13		E S T I M A T E O F Q U A N T I T I E S			
LINE				7550-03-72	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0020	204.0100	REMOVING PAVEMENT	SY	170.000	170.000
0030	204.0105	REMOVING PAVEMENT BUTT JOINTS	SY	881.000	881.000
0040	204.0109.S	REMOVING CONCRETE SURFACE PARTIAL DEPTH	SF	222,350.000	222,350.000
0120	213.0100	FINISHING ROADWAY (PROJECT) 02.	EACH	1.000	1.000
		7550-03-72			
0170	440.4410.S	INCENTIVE IRI RIDE	DOL	3,320.000	3,320.000
0180	455.0145	ASPHALTIC MATERIAL PG64-34P	TON	216.000	216.000
0190	455.0605	TACK COAT	GAL	1,235.000	1,235.000
0200	460.1110	HMA PAVEMENT TYPE E-10	TON	3,608.000	3,608.000
0210	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	2,220.120	2,220.120
0220	465.0110	ASPHALTIC SURFACE PATCHING	TON	145.000	145.000
0230	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	10.000	10.000
0480	611.8110	ADJUSTING MANHOLE COVERS	EACH	30.000	30.000
0520	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 02.7550-03-72	EACH	1.000	1.000
0530	619.1000	MOBILIZATION	EACH	0.250	0.250
0540	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	4.000	4.000
0550	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0580	628.7015	INLET PROTECTION TYPE C	EACH	40.000	40.000
0590	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	45.000	45.000
0600	637.0202	SIGNS REFLECTIVE TYPE II	SF	514.950	514.950
0610	637.0402	SIGNS REFLECTIVE FOLDING TYPE II	SF	7.460	7.460
0620	638.2602	REMOVING SIGNS TYPE II	EACH	121.000	121.000
0630	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	36.000	36.000
0640	642.5201	FIELD OFFICE TYPE C	EACH	0.250	0.250
0660	643.0100	TRAFFIC CONTROL (PROJECT) 02.7550-03-72	EACH	1.000	1.000
0670	643.0300	TRAFFIC CONTROL DRUMS	DAY	3,535.000	3,535.000
0680	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	336.000	336.000
0710	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	294.000	294.000
0730	643.0900	TRAFFIC CONTROL SIGNS	DAY	1,449.000	1,449.000
0740	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	1.000	1.000
0750	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 02.7550-03-72	EACH	1.000	1.000
0760	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	1,428.000	1,428.000
0770	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	11,070.000	11,070.000
0780	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	95.000	95.000
0790	646.0600	REMOVING PAVEMENT MARKINGS	LF	2,000.000	2,000.000
0800	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	19.000	19.000
0810	647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	7.000	7.000
0820	647.0256	PAVEMENT MARKING SYMBOLS EPOXY	EACH	2.000	2.000
0840	647.0556	PAVEMENT MARKING STOP LINE EPOXY 12-INCH	LF	177.000	177.000
0850	647.0656	PAVEMENT MARKING PARKING STALL EPOXY	LF	2,276.000	2,276.000
0860	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	168.000	168.000
0870	647.0776	PAVEMENT MARKING CROSSWALK EPOXY 12-INCH	LF	3,012.000	3,012.000
0880	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	12,900.000	12,900.000
0890	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	12,900.000	12,900.000
0910	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	4,410.000	4,410.000
0930	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02.7550-03-72	LS	1.000	1.000
0940	690.0250	SAWING CONCRETE	LF	990.000	990.000
0960	SPV.0090	SPECIAL 01. CLEANING CONCRETE JOINTS AND CRACKS	LF	4,570.000	4,570.000
0970	SPV.0090	SPECIAL 02. CURB HEAD REPAIR SPECIAL	LF	20.000	20.000

3

3

DATE 13FEB13			E S T I M A T E O F Q U A N T I T I E S		
LINE			7550-03-72		
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
1010	SPV.0105	SPECIAL 04. PREPARE FOUNDATION FOR ASPHALTIC PAVING SPECIAL 7550-03-72	LS	1.000	1.000
1020	SPV.0105	SPECIAL 05. MILLING AND REMOVING TEMPORARY JOINT 7550-03-72	LS	1.000	1.000
1040	SPV.0180	SPECIAL 01. CONCRETE PAVEMENT REPAIR NON-DOWELED SPECIAL	SY	150.000	150.000
1050	SPV.0180	SPECIAL 02. CONCRETE PAVEMENT REPLACEMENT NON-DOWELED SPECIAL	SY	20.000	20.000

3

REMOVING PAVEMENT

CATEGORY	STATION TO	STATION	LOCATION	204.0100 SY	REMARKS
0010	2+40	- 46+50	STH 54	170	11TH ST. TO USH 12
TOTAL 0010				170	

REMOVING PAVEMENT BUTT JOINTS

CATEGORY	STATION TO	STATION	LOCATION	204.0105 SY	REMARKS
0010	2+40		STH 54	98	
0010	46+50		STH 54	111	
0010			11TH ST.	28	
0010			10TH ST.	28	
0010			PIERCE ST.	28	
0010			FILLMORE ST.	56	
0010			MAIN ST.	28	
0010			10TH ST.	28	
0010			9TH ST.	56	
0010			8TH ST.	56	
0010			7TH ST.	56	
0010			6TH ST.	56	
0010			5TH ST.	56	
0010			4TH ST.	28	
0010			3RD ST. N.	28	
0010			3RD ST. S.	28	
0010			2ND ST.	56	
0010			1ST ST.	56	
TOTAL 0010				881	

ASPHALTIC SURFACE PATCHING

CATEGORY	STATION TO	STATION	LOCATION	465.0110 TON	REMARKS
0010	2+40	- 22+00	STH 54	65	FILLING CLEANED CONCRETE JOINTS/CRACKS
0010	22+00	- 31+00	STH 54	30	FILLING CLEANED CONCRETE JOINTS/CRACKS
0010	31+00	- 35+00	STH 54	12	FILLING CLEANED CONCRETE JOINTS/CRACKS
0010	35+00	- 46+50	STH 54	38	FILLING CLEANED CONCRETE JOINTS/CRACKS
TOTAL 0010				145	

REMOVING CONCRETE SURFACE PARTIAL DEPTH

CATEGORY	STATION TO	STATION	LOCATION	204.0109.S SF	REMARKS
0010	2+40	- 22+00	STH 54	87850	11TH TO 8TH
0010	22+00	- 31+00	STH 54	34750	8TH TO 5TH
0010	31+00	- 35+00	STH 54	16000	5TH TO 4TH
0010	35+00	- 46+50	STH 54	59750	4TH TO WATER
0010			11TH ST.	1000	
0010			10TH ST.	1000	
0010			PIERCE ST.	1000	
0010			FILLMORE ST.	2000	
0010			MAIN ST.	1000	
0010			10TH ST.	1000	
0010			9TH ST.	2000	
0010			8TH ST.	2000	
0010			7TH ST.	2000	
0010			6TH ST.	2000	
0010			5TH ST.	2000	
0010			4TH ST.	1000	
0010			3RD ST. N.	1000	
0010			3RD ST. S.	1000	
0010			2ND ST.	2000	
0010			1ST ST.	2000	
TOTAL 0010				222350	

ASPHALT ITEMS

CATEGORY	STATION TO	STATION	LOCATION	ASPHALTIC MATERIAL PG64-34P 455.0145 TON	TACK COAT 455.0605 GAL	HMA PAVEMENT TYPE E-10 460.1110 TON	REMARKS
0010	2+40	- 22+00	STH 54	113	672	1882	11TH TO 8TH
0010	22+00	- 31+00	STH 54	24	142	398	8TH TO 5TH
0010	31+00	- 35+00	STH 54	15	89	249	5TH TO 4TH
0010	35+00	- 46+50	STH 54	56	332	929	4TH TO WATER
0010	2+40	- 46+50	STH 54	9	-	150	LEVELING & WEDGING
TOTAL 0010				216	1235	3608	

ASPHALTIC SURFACE TEMPORARY

CATEGORY	STATION TO	STATION	LOCATION	465.0125 TON	REMARKS
0010			STH 54	10	TEMPORARY WEDGES
TOTAL 0010				10	

INLET PROTECTION TYPE C

CATEGORY	STATION TO	STATION	LOCATION	628.7015 EACH	REMARKS
0010	2+40 -	46+50	STH 54	40	
TOTAL 0010				40	

SIGNS REFLECTIVE FOLDING TYPE II

CATEGORY	LOCATION	637.0402 SF	REMARKS
0010	STH 54 EASTBOUND	7.46	SEE PERMANENT SIGNS CHART MILE MARKER 40.475
TOTAL 0010		7.46	

TRAFFIC CONTROL DETOUR SIGNS

CATEGORY	STATION TO	STATION	LOCATION	643.3000 DAYS	REMARKS
0010			STH 54	1428	USH 12 TO CTH A TO 8TH ST.
TOTAL 0010				1428	

TRAFFIC CONTROL

				DRUMS 643.0300 DAYS	BARRICADES TYPE III 643.0420 DAYS	WARNING LIGHTS TYPE C 643.0715 DAYS	SIGNS 643.0900 DAYS	COVERING SIGNS TYPE II 643.0920 EACH	REMARKS
0010	2+40 -	22+00	STH 54	1120	84	84	252	-	11TH TO 8TH
0010	22+00 -	46+50	STH 54	2415	252	210	1197	1	8TH TO WATER
TOTAL 0010				3535	336	294	1449	1	

ADJUSTING MANHOLE COVERS

CATEGORY	STATION TO	STATION	LOCATION	611.8110 EACH	REMARKS
0010		2+60	STH 54, LT.	1	STORM SEWER MANHOLE
0010		7+65	STH 54, RT.	1	STORM SEWER MANHOLE
0010		8+40	STH 54, LT.	1	STORM SEWER MANHOLE
0010		11+75	STH 54, LT.	1	STORM SEWER MANHOLE
0010		14+50	STH 54, LT.	1	STORM SEWER MANHOLE
0010		14+70	STH 54, LT.	1	STORM SEWER MANHOLE
0010		18+00	STH 54, RT.	1	STORM SEWER MANHOLE
0010		21+30	STH 54, RT.	1	STORM SEWER MANHOLE
0010		24+54	STH 54, LT.	1	STORM SEWER MANHOLE
0010		27+50	STH 54, LT.	1	STORM SEWER MANHOLE
0010		34+50	STH 54, LT.	1	STORM SEWER MANHOLE
0010		37+45	STH 54, LT.	2	STORM SEWER MANHOLES
0010		38+45	STH 54, LT.	1	STORM SEWER MANHOLE
0010		40+10	STH 54, LT.	1	STORM SEWER MANHOLE
0010		40+85	STH 54, LT.	1	STORM SEWER MANHOLE
0010		42+90	STH 54, LT.	1	STORM SEWER MANHOLE
0010		46+50	STH 54, LT.	1	STORM SEWER MANHOLE
TOTAL 0010				18	

0020	3+60	STH 54, RT.	1	SANITARY SEWER MANHOLE
0020	7+85	STH 54, RT.	1	SANITARY SEWER MANHOLE
0020	8+20	STH 54, RT.	1	SANITARY SEWER MANHOLE
0020	14+60	STH 54, LT.	1	SANITARY SEWER MANHOLE
0020	18+05	STH 54, LT.	1	SANITARY SEWER MANHOLE
0020	21+25	STH 54, LT.	1	SANITARY SEWER MANHOLE
0020	24+50	STH 54, LT.	1	SANITARY SEWER MANHOLE
0020	30+50	STH 54, RT.	1	SANITARY SEWER MANHOLE
0020	32+50	STH 54, RT.	1	SANITARY SEWER MANHOLE
0020	34+80	STH 54, LT.	1	SANITARY SEWER MANHOLE
0020	37+60	STH 54, RT.	1	SANITARY SEWER MANHOLE
0020	41+00	STH 54, RT.	1	SANITARY SEWER MANHOLE

TOTAL 0020 12

3

						PERMANENT SIGNS													
STH 54						638.2602	638.3000							637.0202	634.0616				
Eastbound	Existing			Exist.	Exist.	Removing	Removing				New	New		Signs	Posts Wood				
Mile	Sign			Sign	Sign	Signs	Small Sign	New			Sign	Sign		Reflective	4x6 - Inch				
Marker	Code	Existing Sign Description	Position	Width	Height	Type II (Each)	(Each)	Code	New Sign Description	Position	Width	Height	(SF)	Type II	x 16 - Ft. Each	Order -Line 1	Order -Line 2	Order -Line 3	Notes
39.565	R2-1	Speed Limit _ MPH	Right	24.00	30.00	-	-	-	-	-	-	-	-	-	-				Existing Sign To Remain
39.665	R2-1	Speed Limit _ MPH	Right	24.00	30.00	1	1	R2-1	Speed Limit _ MPH	Right	24.00	30.00	5.00	1		25			
39.685	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1					New Sign For Two Way Left Turn Lane
39.685	M3-2	EAST Cardinal Route Marker	Right	24.00	12.00	1	1												New Location @ Mile Marker 39.715
39.685	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-	-	-				New Location @ Mile Marker 39.715
39.685	M5-2L	Advance Arrow Left Bent	Right	21.00	21.00	1	-	-	-	-	-	-	-	-	-				New Location @ Mile Marker 39.715
39.695	R7-100	No Parking Anytime	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
39.715	-	-	-	-	-	-	-	J2-1	Route Turn Assembly (1 Headed Panel)	Right	24.00	57.00	9.50	1		East	54	LB	
39.755	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On 10th St.; Mount On Existing Support
39.765	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On Pierce St.; Mount On Existing Support
39.775	W1-6	Night Arrow (Single)	Right	48.00	24.00	1	1	W1-6	Night Arrow (Single)	Right	48.00	24.00	8.00	1					
39.785	W3-1	Stop Ahead	Right	36.00	36.00	1	1	W3-1	Stop Ahead	Right	36.00	36.00	9.00	1					
39.795	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	1	1	-	-	-	-	-	-	-					New Location @ Mile Marker 39.815
39.795	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1					New Sign For Two Way Left Turn Lane
39.815	-	-	-	-	-	-	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
39.825	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On Fillmore St.; Mount On Existing Support
39.845	M3-2	EAST Cardinal Route Marker	Right	24.00	12.00	1	1	J2-1	Route Turn Assembly (1 Headed Panel)	Right	24.00	57.00	9.50	1		East	54	RT	
39.845	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-	-					
39.845	M5-1R	Advance Arrow Right Turn	Right	21.00	21.00	1	-	-	-	-	-	-	-	-					
39.875	W12-1D	Double Down Arrow	Left (Island)	24.00	24.00	1	-	W12-1D	Double Down Arrow	Left (Island)	24.00	24.00	4.00	-					Mount On Existing Support
39.875	R1-1	Stop	Left (Island)	30.00	30.00	1	1	R1-1	Stop	Left (Island)	30.00	30.00	5.18	1					
39.875	R1-2	Yield	Right	36.00	31.00	1	1	R1-2	Yield	Right	36.00	31.00	3.88	1					
39.875	M3-2	EAST Cardinal Route Marker	Island	24.00	12.00	1	1	J3-1	Directional Assembly (1 Headed Route Panel)	Right	24.00	57.00	9.50	1		East	54	RA	Note Position Change To Right Side
39.875	M1-6	State Route Marker	Island	24.00	24.00	1	-	-	-	-	-	-	-	-					
39.875	M6-1	Arrow - RIGHT, LEFT, OR AHEAD	Island	21.00	21.00	1	-	-	-	-	-	-	-	-					
39.905	M3-2	EAST Cardinal Route Marker	Right	24.00	12.00	1	1	-	-	-	-	-	-	-					New Location @ Mile Marker 39.935
39.905	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-	-					New Location @ Mile Marker 39.935
39.905	R2-1	Speed Limit _ MPH	Right	24.00	30.00	1	-	R2-1	Speed Limit _ MPH	Right	24.00	30.00	5.00	1		25			
39.915	R8-3	No Parking	Right	18.00	24.00	1	1	-	-	-	-	-	-	-					New Location @ Mile Marker 39.925
39.915	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1					New Sign For Two Way Left Turn Lane
39.925	-	-	-	-	-	-	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
39.935	-	-	-	-	-	-	-	J4-1	Reassurance Assembly (1 Headed Route Panel)	Right	24.00	36.00	6.00	1		East	54		
39.945	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On 9th St.; Mount On Existing Support
39.975	R8-3	No Parking	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
39.995	D9-2	Hospital	Right	24.00	24.00	1	1	J13-1	Hospital (Left Arrow)	Right	24.00	45.00	7.50	1		H	LA		
39.995	D9-13a	Hospital	Right	24.00	6.00	1	-	-	-	-	-	-	-	-					
39.995	D9-2a	Hospital Left Arrow	Right	24.00	6.00	1	-	-	-	-	-	-	-	-					
40.005	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On 8th St.; Mount On Existing Support
40.025	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1					New Sign For Two Way Left Turn Lane
40.035	R8-3	No Parking	Right	18.00	24.00	1	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
40.065	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On 7th St.; Mount On Existing Support
40.085	W4-2R	Lane Reduction Transition Symbol - Right	Right	36.00	36.00	1	1	-	-	-	-	-	-	-					Do Not Replace
40.125	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On 6th St.; Mount On Existing Support
40.125	S1-1	School Advance	Right	30.00	30.00	1	1	-	-	-	-	-	-	-					Do Not Replace
40.135	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1					New Sign For Two Way Left Turn Lane
40.145	-	-	-	-	-	-	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
40.155	S4-51	School,Speed Limit 20, When Children Present	Right	24.00	48.00	1	1	-	-	-	-	-	-	-					Do Not Replace
40.175	S1-1	School Advance	Right	30.00	30.00	1	1	-	-	-	-	-	-	-					Do Not Replace
40.175	R7-100	No Parking Anytime	Right	18.00	24.00	1	-	-	-	-	-	-	-	-					New Location @ Mile Marker 40.145
40.185	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	6.25	-					On 5th St.; Mount On Existing Support
40.225	R2-1	Speed Limit _ MPH	Right	24.00	30.00	1	-	R2-1	Speed Limit _ MPH	Right	24.00	30.00	5.00	-		25			Mount On Existing Support
40.225	R7-2	No Parking 2AM to 6AM	Right	18.00	24.00	1	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	-					Mount On Existing Support
40.225	M3-2	EAST Cardinal Route Marker	Right	24.00	12.00	1	1	J4-1	Reassurance Assembly (1 Headed Route Panel)	Right	24.00	36.00	6.00	1		East	54		
40.225	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-	-					
40.255	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-					On 4th St.; Mount On Existing Support
40.285	R7-108	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1	-	R7-5D	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1.50	-		8:00 A.M.	6:00 P.M.		Mount On Existing Support
40.285	R7-2	No Parking (2AM -																	

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(CONTINUED ON NEXT SHEET)

PROJECT NO: 7550-03-72

HWY: STH 54

COUNTY: JACKSON

MISCELLANEOUS QUANTITIES – PERMANENT SIGNS

SHEET:

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PERMANENT SIGNS																			
STH 54																			
Westbound Mile	Existing Sign	Existing Sign	Exist. Sign Size	Exist. Sign Size	638.2602 Removing Signs Type II (Each)	638.3000 Removing Small Sign Supports (Each)	New Sign Code	New Sign Description	New Sign Position	New Sign Size Width	New Sign Size Height	637.0202 Signs Reflective Type II (SF)	634.0616 Posts Wood 4x6 - Inch x 16 - Ft. Each	Order -Line 1	Order -Line 2	Order -Line 3	Notes		
Marker	Code	Existing Sign Description	Position	Width	Height	(Each)	(Each)	Code	New Sign Description	Position	Width	Height	(SF)	Each	Order -Line 1	Order -Line 2	Order -Line 3	Notes	
27.209	M3-4	WEST Cardinal Route Marker	Right	24.00	12.00	1	-	J4-1	Reassurance Assembly (1 Headed Route Panel)	Right	24.00	36.00	6.00	-	West	54		Mount On Existing Support	
27.209	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-						
27.229	R7-108	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1	-	R7-5D	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1.50	-	8:00 A.M.	6:00 P.M.		Mount On Existing Support	
27.229	R7-2	No Parking (2AM - 6AM)	Right	12.00	18.00	1	-	R7-2D	No Parking (2AM - 6AM)	Right	12.00	18.00	1.50	-	2:00 A.M.	6:00 A.M.		Mount On Existing Support	
27.249	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 1st St.; Mount On Existing Support	
27.269	R7-108	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1	-	R7-5D	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1.50	-	8:00 A.M.	6:00 P.M.		Mount On Existing Support	
27.269	R7-2	No Parking (2AM - 6AM)	Right	12.00	18.00	1	-	R7-2D	No Parking (2AM - 6AM)	Right	12.00	18.00	1.50	-	2:00 A.M.	6:00 A.M.		Mount On Existing Support	
27.309	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 2nd St.; Mount On Existing Support	
27.339	R7-108	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1	-	R7-5D	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1.50	-	8:00 A.M.	6:00 P.M.		Mount On Existing Support	
27.339	R7-2	No Parking (2AM - 6AM)	Right	12.00	18.00	1	-	R7-2D	No Parking (2AM - 6AM)	Right	12.00	18.00	1.50	-	2:00 A.M.	6:00 A.M.		Mount On Existing Support	
27.369	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 3rd St.; Mount On Existing Support	
27.369	M3-4	WEST Cardinal Route Marker	Right	24.00	12.00	1	-	J4-1	Reassurance Assembly (1 Headed Route Panel)	Right	24.00	36.00	6.00	-	West	54		Mount On Existing Support	
27.369	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-						
27.389	R7-108	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1	-	R7-5D	2HR Parking (8:00 AM - 6:00 PM)	Right	12.00	18.00	1.50	-	8:00 A.M.	6:00 P.M.		Mount On Existing Support	
27.389	R7-2	No Parking (2AM - 6AM)	Right	12.00	18.00	1	-	R7-2D	No Parking (2AM - 6AM)	Right	12.00	18.00	1.50	-	2:00 A.M.	6:00 A.M.		Mount On Existing Support	
27.409	R7-8A	Reserved Parking (Disabled Symbol) This Space	Right	12.00	18.00	1	-	R7-8A	Reserved Parking (Disabled Symbol) This Space	Right	12.00	18.00	1.50	-				Mount On Existing Support	
27.419	R8-3	No Parking	Right	18.00	24.00	1	-	R7-1L	No Parking Anytime (Left Arrow)	Right	18.00	24.00	3.00	-				Mount On Existing Support	
27.439	R8-3	No Parking	Right	18.00	24.00	1	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	-				Mount On Existing Support	
27.469	S4-51	School, Speed Limit 20, When Children Present	Right	24.00	48.00	1	-	-	-	-	-	-	-				Do Not Replace		
27.469	R8-3	No Parking	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.489	S1-1	School Advance	Right	30.00	30.00	1	-	-	-	-	-	-	-				Do Not Replace		
27.499	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 5th St.; Mount On Existing Support	
27.509	R7-100	No Parking Anytime	Right	18.00	24.00	1	1	-	-	-	-	-	-				New Location @ Mile Marker 27.529		
27.509	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1				New Sign For Two Way Left Turn Lane	
27.529	-	-	-	-	-	-	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.549	R2-1	Speed Limit _ MPH	Right	24.00	30.00	1	-	R2-1	Speed Limit _ MPH	Right	24.00	30.00	5.00		25			Mount On Existing Support	
27.559	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 6th St.; Mount On Existing Support	
27.589	R7-100	No Parking Anytime	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.609	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 7th St.; Mount On Existing Support	
27.619	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1				New Sign For Two Way Left Turn Lane	
27.639	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.669	D9-2	Hospital	Right	24.00	24.00	1	1	J13-1	Hospital (Right Arrow)	Right	24.00	45.00	7.50	1					
27.669	D9-13a	Hospital	Right	24.00	6.00	1	-	-	-	-	-	-	-						
27.669	D9-2a	Hospital (Right Arrow)	Right	24.00	6.00	1	-	-	-	-	-	-	-						
27.679	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 8th St.; Mount On Existing Support	
27.689	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1				New Sign For Two Way Left Turn Lane	
27.699	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.729	R2-1	Speed Limit _ MPH	Right	24.00	30.00	1	-	R2-1	Speed Limit _ MPH	Right	24.00	30.00	5.00	1	25				
27.739	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 9th St.; Mount On Existing Support	
27.749	M3-4	WEST Cardinal Route Marker	Right	24.00	12.00	1	1	J3-1	Directional Assembly (1 Headed Route Panel)	Right	24.00	57.00	9.50	1	West	54	LT		
27.749	M1-6	State Route Marker	Right	24.00	24.00	1	-												
27.749	M5-1L	Advance Arrow Left Turn	Right	21.00	21.00	1	-												
27.759	R7-100	No Parking Anytime	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.799	M3-4	WEST Cardinal Route Marker	Right	24.00	12.00	1	1	J3-1	Directional Assembly (1 Headed Panel)	Right	24.00	57.00	9.50	1	West	54	LA		
27.799	M1-6	State Route Marker	Right	24.00	24.00	1	-												
27.799	M6-1	Arrow - RIGHT, LEFT, OR AHEAD	Right	21.00	21.00	1	-												
27.799	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 10th St.; Mount On Existing Support	
27.809	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On Main St.; Mount On Existing Support	
27.829	R8-3	No Parking	Right	18.00	24.00	1	1	-	-	-	-	-	-				New Location @ Mile Marker 27.849		
27.829	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1				New Sign For Two Way Left Turn Lane	
27.849	-	-	-	-	-	-	-	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.859	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On Fillmore St.; Mount On Existing Support	
27.879	M3-4	WEST Cardinal Route Marker	Right	24.00	12.00	1	1	J2-1	Route Turn Assembly (1 Headed Route Panel)	Right	24.00	57.00	9.50	1	West	54	RB		
27.879	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-						
27.879	M5-2R	Advance Arrow Right Bent	Right	21.00	21.00	1	-	-	-	-	-	-	-						
27.889	R8-3	No Parking	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.919	M3-4	WEST Cardinal Route Marker	Right	24.00	12.00	1	1	J3-1	Directional Assembly (1 Headed Panel)	Right	24.00	57.00	9.50	1	West	54	TR		
27.919	M1-6	State Route Marker	Right	24.00	24.00	1	-	-	-	-	-	-	-						
27.919	M6-2	Arrow Tilt Right or Left	Right	21.00	21.00	1	-	-	-	-	-	-	-						
27.929	-	-	-	-	-	-	-	R3-9B	Center Lane Left Turn Only (w/ arrows)	Right	24.00	36.00	6.00	1				New Sign For Two Way Left Turn Lane	
27.949	R8-3	No Parking	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
27.999	R7-100	No Parking Anytime	Right	18.00	24.00	1	1	R7-1D	No Parking Anytime (Double Arrow)	Right	18.00	24.00	3.00	1					
28.019	R1-1	Stop	Right	30.00	30.00	1	-	R1-1	Stop	Right	30.00	30.00	5.18	-				On 11th St.; Mount On Existing Support	
28.029	R2-1	Speed Limit _ MPH	Right	24.00	30.00	1	1	R2-1	Speed Limit _ MPH	Right	24.00	30.00	5.00	1	30				
28.049	W4-2R	Lane Reduction Transition Symbol - Right	Right	36.00	36.00	1	1	-	-	-	-	-	-				Do Not Replace		
					Totals	121	36				Totals	514.95	45						

PAVEMENT MARKING EPOXY 4-INCH

		646.0106			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010	1+50 - 21+00	STH 54	5380	11TH ST. TO 8TH ST. (YELLOW)	
0010	21+00 - 46+50	STH 54	5690	8TH ST. TO WATER ST. (YELLOW)	
TOTAL 0010			11070		

REMOVING PAVEMENT MARKINGS

		646.0600			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010		STH 54	2000	STH 54 TRAFFIC CONTROL	
TOTAL 0010			2000		

PAVEMENT MARKING ARROWS EPOXY TYPE 3

		647.0176			
CATEGORY	STATION TO STATION	LOCATION	EACH	REMARKS	
0010	15+20, RT.	STH 54	1	WHITE	
0010	45+95 - 46+35, RT.	STH 54	6	WHITE	
TOTAL 0010			7		

PAVEMENT MARKING SYMBOLS EPOXY

		647.0256			
CATEGORY	STATION TO STATION	LOCATION	EACH	REMARKS	
0010	35+00, LT.	STH 54	1	WHITE	
0010	45+40, RT.	STH 54	1	WHITE	
TOTAL 0010			2		

PAVEMENT MARKING EPOXY 8-INCH

		646.0126			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010	14+15 - 14+50	STH 54	40	WHITE	
0010	45+90 - 46+45	STH 54	55	WHITE	
TOTAL 0010			95		

PAVEMENT MARKING ARROWS EPOXY TYPE 2

		647.0166			
CATEGORY	STATION TO STATION	LOCATION	EACH	REMARKS	
0010	4+05	STH 54	2	WHITE	
0010	6+55	STH 54	2	WHITE	
0010	9+55	STH 54	2	WHITE	
0010	12+60	STH 54	2	WHITE	
0010	14+15	STH 54	1	WHITE	
0010	17+10	STH 54	2	WHITE	
0010	19+60	STH 54	2	WHITE	
0010	22+95	STH 54	2	WHITE	
0010	25+95	STH 54	2	WHITE	
0010	28+95	STH 54	2	WHITE	
TOTAL 0010			19		

PAVEMENT MARKING STOP LINE EPOXY 12-INCH

		647.0556			
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	
0010		11TH ST.	25	WHITE	
0010	14+40, LT.	STH 54	12	WHITE	
0010		5TH ST.	32	WHITE	
0010		4TH ST.	12	WHITE	
0010		3RD ST. N.	14	WHITE	
0010		3RD ST. S.	12	WHITE	
0010		2ND ST.	24	WHITE	
0010		1ST ST.	24	WHITE	
0010	46+45, RT.	STH 54	22	WHITE	
TOTAL 0010			177		

3

PAVEMENT MARKING PARKING STALL EPOXY

					647.0656	
CATEGORY	STATION TO	STATION	LOCATION		LF	REMARKS
0010	34+90	- 36+85, LT.	STH 54		306	WHITE
0010	35+05	- 37+00, RT.	STH 54		304	WHITE
0010	37+50	- 38+35, RT.	STH 54		141	WHITE
0010	37+95	- 38+40, LT.	STH 54		77	WHITE
0010	38+80	- 40+00, LT.	STH 54		152	WHITE
0010	39+35	- 40+00, RT.	STH 54		172	WHITE
0010	41+10	- 42+85, LT.	STH 54		272	WHITE
0010	41+45	- 42+95, RT.	STH 54		238	WHITE
0010	43+90	- 46+30, LT.	STH 54		371	WHITE
0010	44+00	- 45+50, RT.	STH 54		243	WHITE
TOTAL 0010					2276	

PAVEMENT MARKING CROSSWALK EPOXY 12-INCH

					647.0776	
CATEGORY	STATION TO	STATION	LOCATION		LF	REMARKS
0010		2+65	STH 54		84	WHITE
0010	7+60	- 8+50	STH 54		108	WHITE
0010	11+20	- 11+70	STH 54		160	WHITE
0010	14+45	- 14+75	STH 54		260	WHITE
0010	17+70	- 18+25	STH 54		248	WHITE
0010	21+00	- 21+60	STH 54		264	WHITE
0010	24+25	- 24+75	STH 54		254	WHITE
0010	27+25	- 27+80	STH 54		262	WHITE
0010	30+20	- 30+75	STH 54		340	WHITE
0010		34+75	STH 54		108	WHITE
0010	37+20	- 37+75	STH 54		188	WHITE
0010		38+55	STH 54		84	WHITE
0010	40+25	- 41+20	STH 54		290	WHITE
0010	43+05	- 43+75	STH 54		256	WHITE
0010		46+50	STH 54		106	WHITE
TOTAL 0010					3012	

PAVEMENT MARKING DIAGONAL EPOXY 12-INCH

					647.0726	
CATEGORY	STATION TO	STATION	LOCATION		LF	REMARKS
0010	1+80	- 2+85	STH 54		50	YELLOW
0010	13+45	- 14+45	STH 54		35	YELLOW
0010	15+35	- 16+40	STH 54		48	YELLOW
0010	30+60	- 31+60	STH 54		35	YELLOW
TOTAL 0010					168	

TEMPORARY PAVEMENT MARKING 4-INCH

					649.0100	
CATEGORY	STATION TO	STATION	LOCATION		LF	REMARKS
0010	2+40	- 22+00	STH 54		6500	11TH TO 8TH
0010	22+00	- 46+50	STH 54		6400	8TH TO WATER
TOTAL 0010					12900	

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH

					649.0400	
CATEGORY	STATION TO	STATION	LOCATION		LF	REMARKS
0010	2+40	- 22+00	USH 12		6500	11TH TO 8TH
0010	22+00	- 46+50	USH 12		6400	8TH TO WATER
TOTAL 0010					12900	

CONSTRUCTION STAKING RESURFACING REFERENCE

					650.8000	
CATEGORY	STATION TO	STATION	LOCATION		LF	REMARKS
0010	2+40	- 46+50	STH 54		4410	11TH ST. TO USH 12
TOTAL 0010					4410	

3

3

SAWING CONCRETE

CATEGORY	STATION TO	STATION	LOCATION	690.0250 LF	REMARKS
0010	2+40	- 46+50	STH 54	990	11TH ST. TO USH 12
TOTAL 0010				990	

CURB HEAD REPAIR SPECIAL

CATEGORY	STATION TO	STATION	LOCATION	SPV.0090.02 LF	REMARKS
0010			STH 54	20	UNDISTRIBUTED
TOTAL 0010				20	

CONCRETE PAVEMENT REPLACEMENT NON-DOWELED SPECIAL

CATEGORY	STATION TO	STATION	LOCATION	SPV.0180.02 SY	REMARKS
0010	2+40	- 46+50	STH 54	20	11TH ST. TO USH 12
TOTAL 0010				20	

CLEANING CONCRETE JOINTS AND CRACKS

CATEGORY	STATION TO	STATION	LOCATION	SPV.0090.01 LF	REMARKS
0010	2+40	- 22+00	STH 54	2060	11TH ST. TO 8TH ST.
0010	22+00	- 46+50	STH 54	2510	8TH ST. TO USH 12
TOTAL 0010				4570	

CONCRETE PAVEMENT REPAIR NON-DOWELED SPECIAL

CATEGORY	STATION TO	STATION	LOCATION	SPV.0180.01 SY	REMARKS
0010	2+40	- 46+50	STH 54	150	11TH ST. TO USH 12
TOTAL 0010				150	

3

LEGEND

REMOVING PAVEMENT BUTT JOINTS

Curve Data
 * = 88°59'58.75" (RT)
 D = 79°34'37.00"
 T = 70.75
 L = 111.84
 E = 28.95
 R = 72.00
 PC STA = 13+94.54
 PISTA = 14+65.29
 PT STA = 15+06.38

Curve Data
 * = 35°04'30.00" (RT)
 D = 48°00'00.00"
 T = 37.72
 L = 73.07
 E = 5.82
 R = 119.37
 PC STA = 34+18.56
 PISTA = 34+56.29
 PT STA = 34+91.64

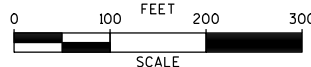
Curve Data
 * = 32°10'30.00" (LT)
 D = 30°00'00.00"
 T = 55.08
 L = 107.25
 E = 7.78
 R = 190.99
 PC STA = 32+34.57
 PISTA = 32+89.65
 PT STA = 33+41.82

Curve Data
 * = 41°01'13.94" (LT)
 D = 37°30'00.00"
 T = 57.16
 L = 109.39
 E = 10.34
 R = 152.79
 PC STA = 7+72.57
 PISTA = 8+29.73
 PT STA = 8+81.96

LEGEND

REMOVING PAVEMENT BUTT JOINTS

END PROJECT
 STA. 46+50



PROJECT NO.: 7550-03-72

HWY: STH 54

COUNTY: JACKSON

PLAN

SHEET NO:

26

FILE NAME : c:\User\s\PROJECTS\D6+54ANDI2+54ANDI2+050101_pi54.DGN

PLOT DATE : 05-FEB-2013 09:08

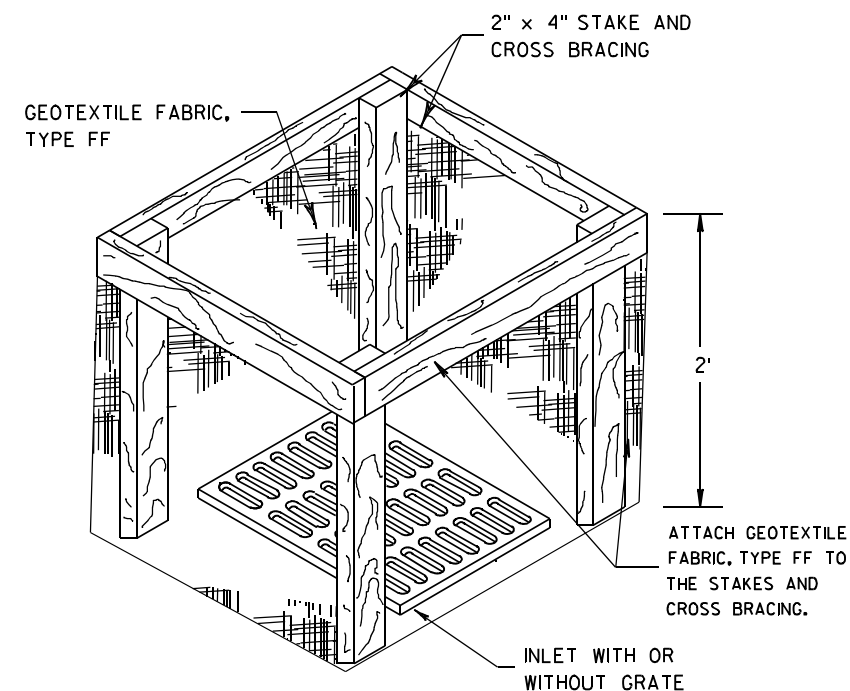
PLOT BY : dotkyk

PLOT NAME :

PLOT SCALE : 2:1

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY



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

**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

APPROVED

10/16/02

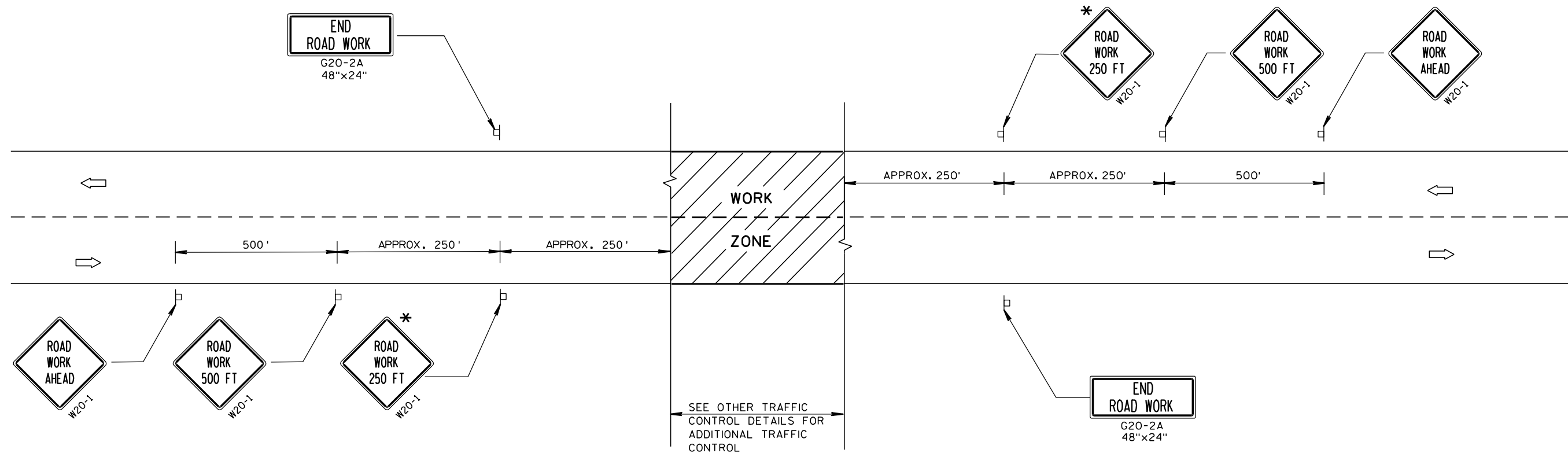
DATE

/s/ Beth Connolly

28

CHIEF ROADWAY DESIGN ENGINEER

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.

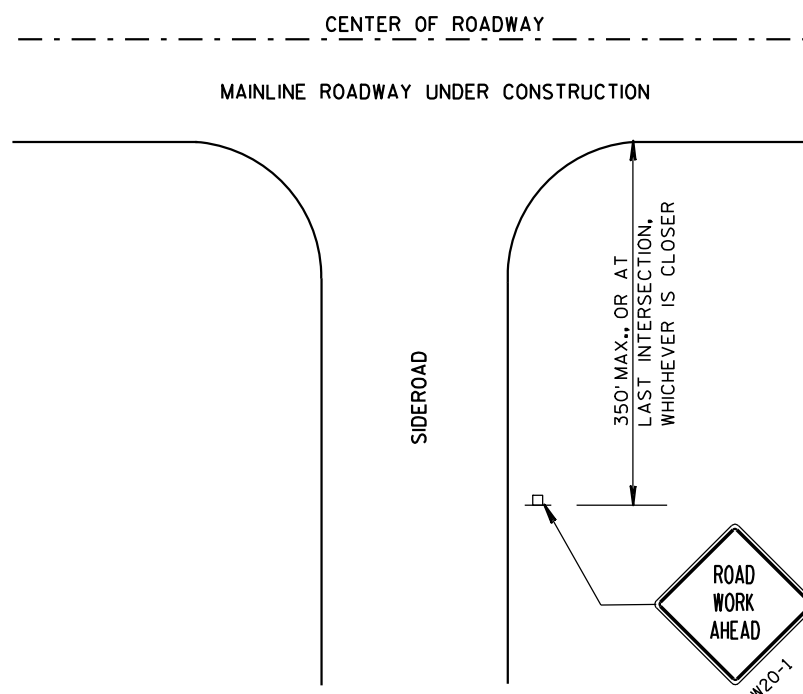
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

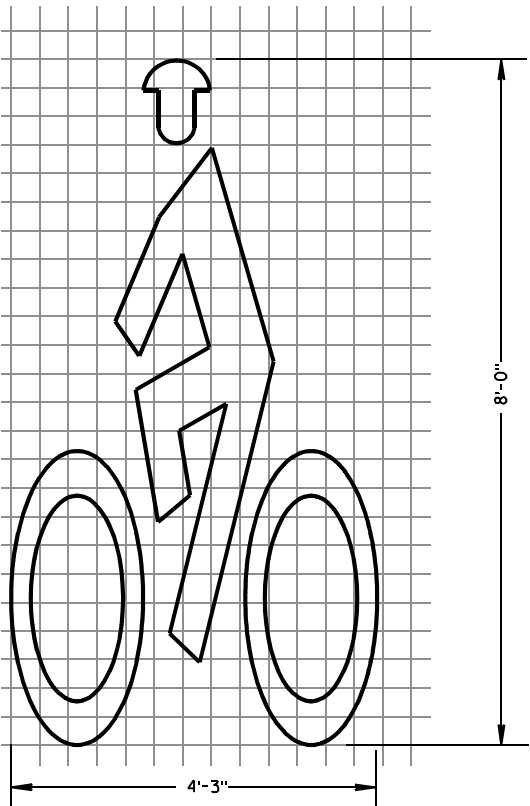
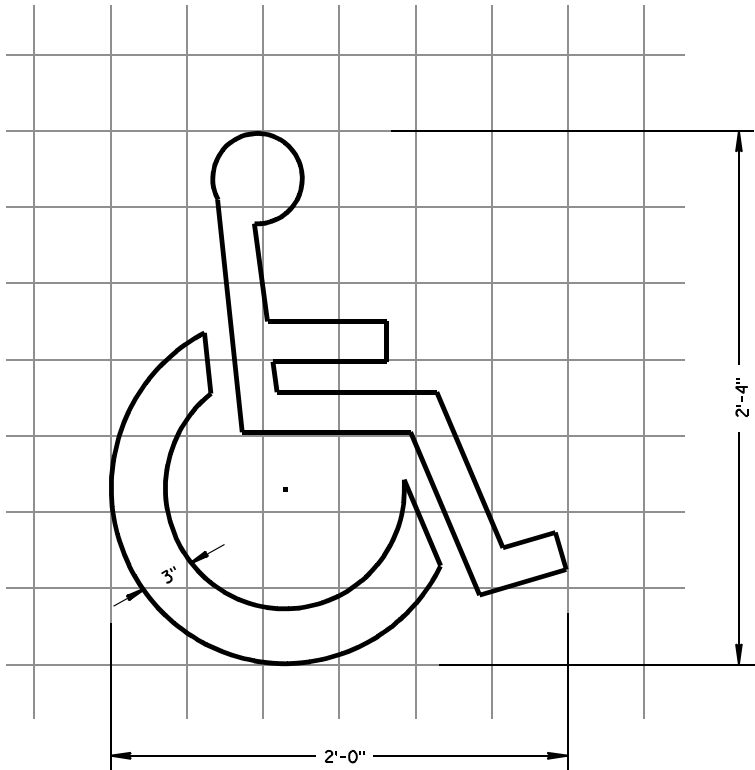
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



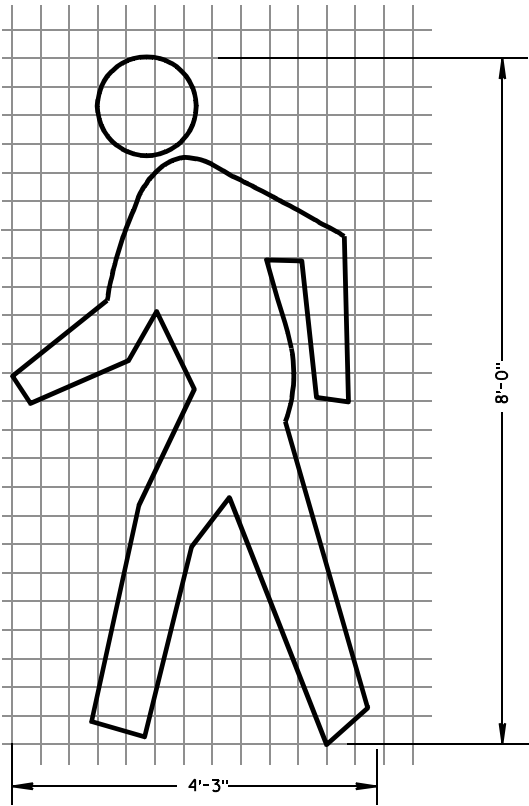
LEGEND

- POST MOUNTED SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

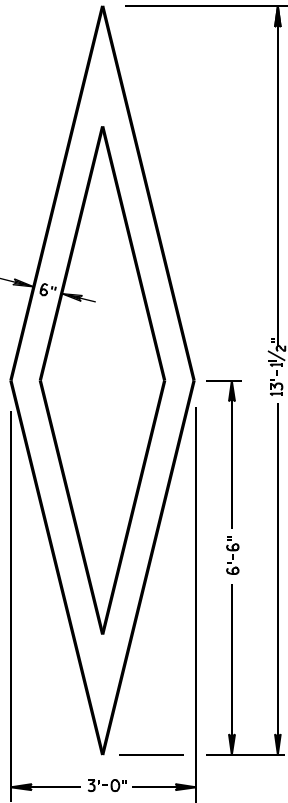
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/23/00 DATE	/S/ Chester J. 29 CHIEF SIGNS AND MARKING ENGINEER
FHWA	



BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

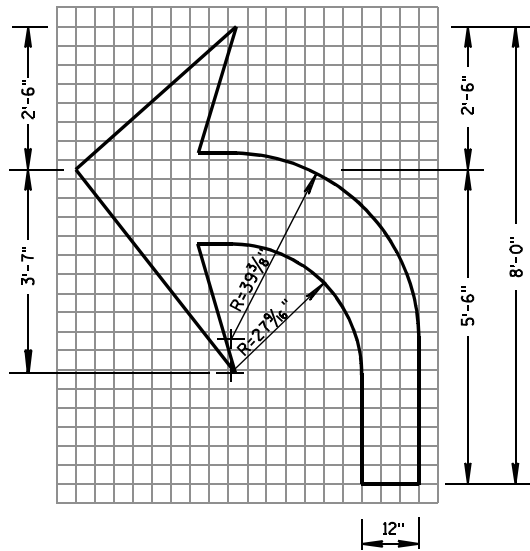
GENERAL NOTES

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.

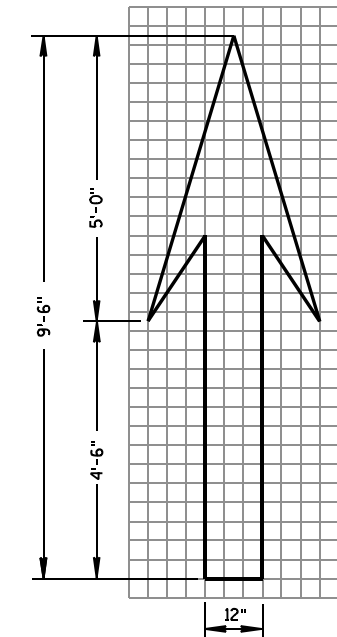
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

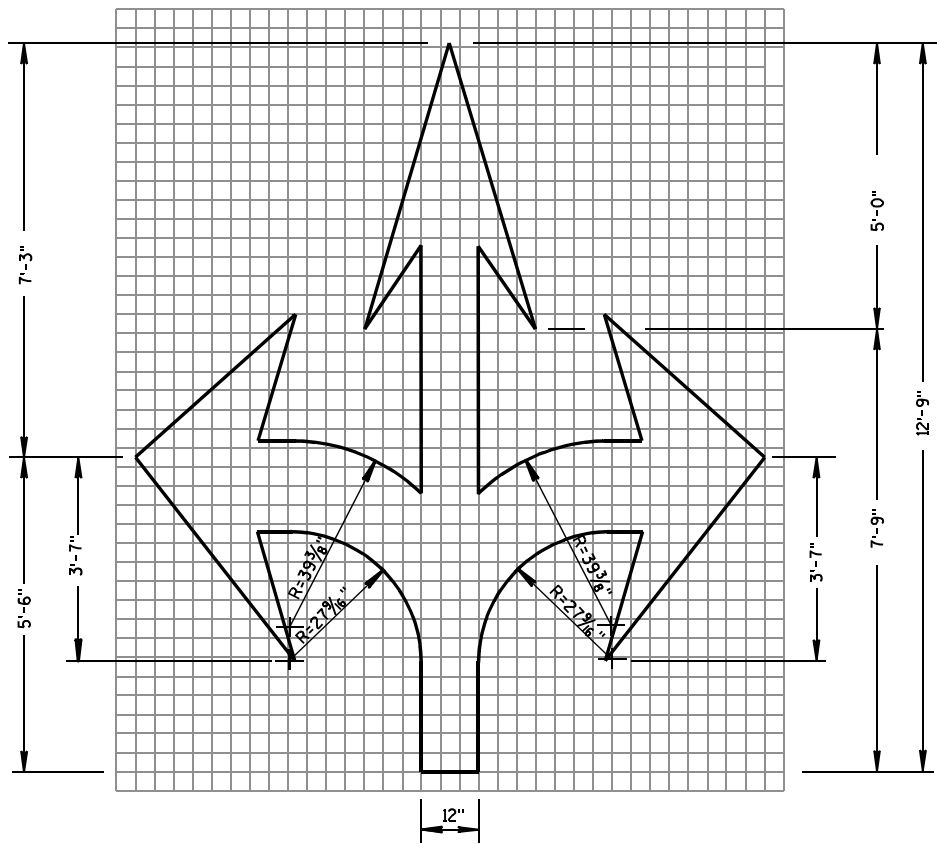
PAVEMENT MARKING SYMBOLS		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED		
7/1/11	/S/ Thomas N. Nathan	
DATE	STATE TRAFFIC ENGINEER 30	IGN
FHWA		



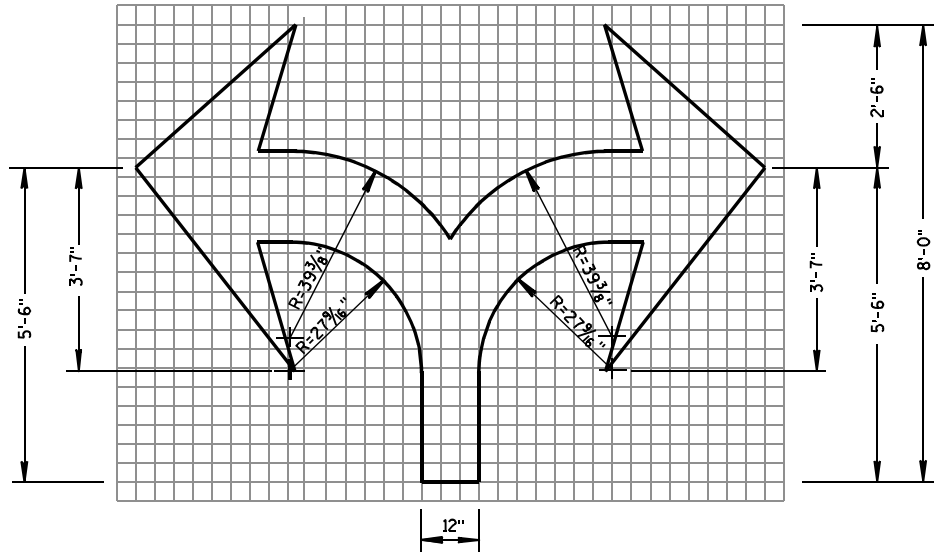
TYPE 2



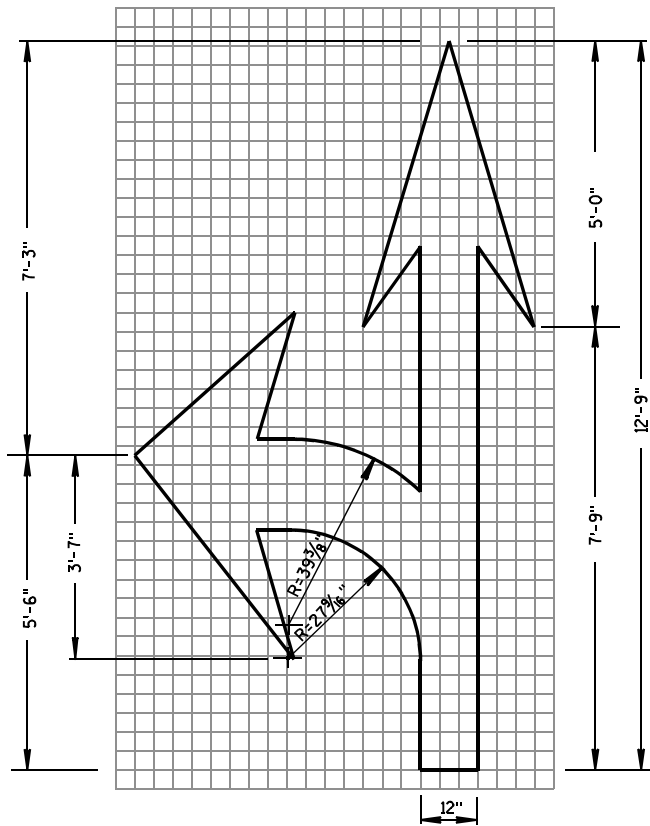
TYPE 1



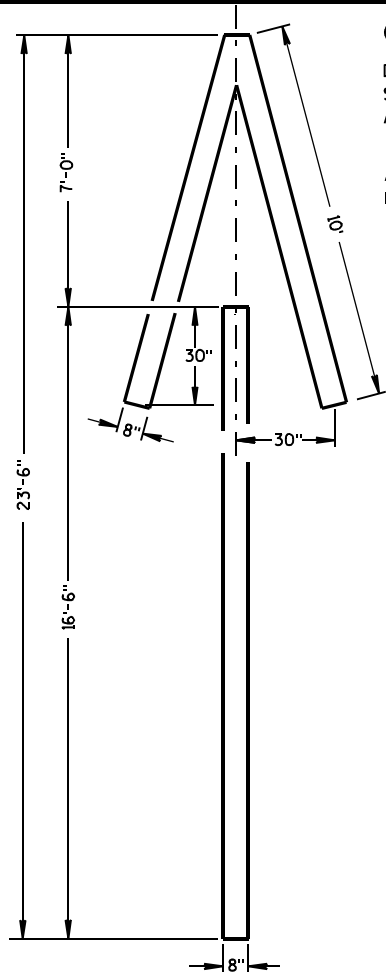
TYPE 6



TYPE 7



TYPE 3

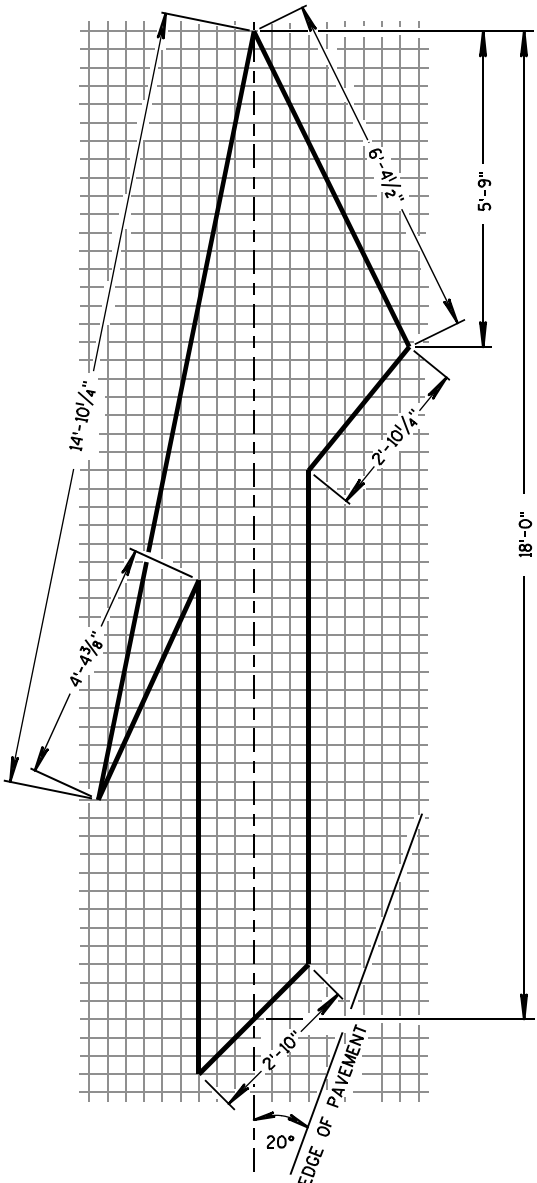


TYPE 4

GENERAL NOTES

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

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

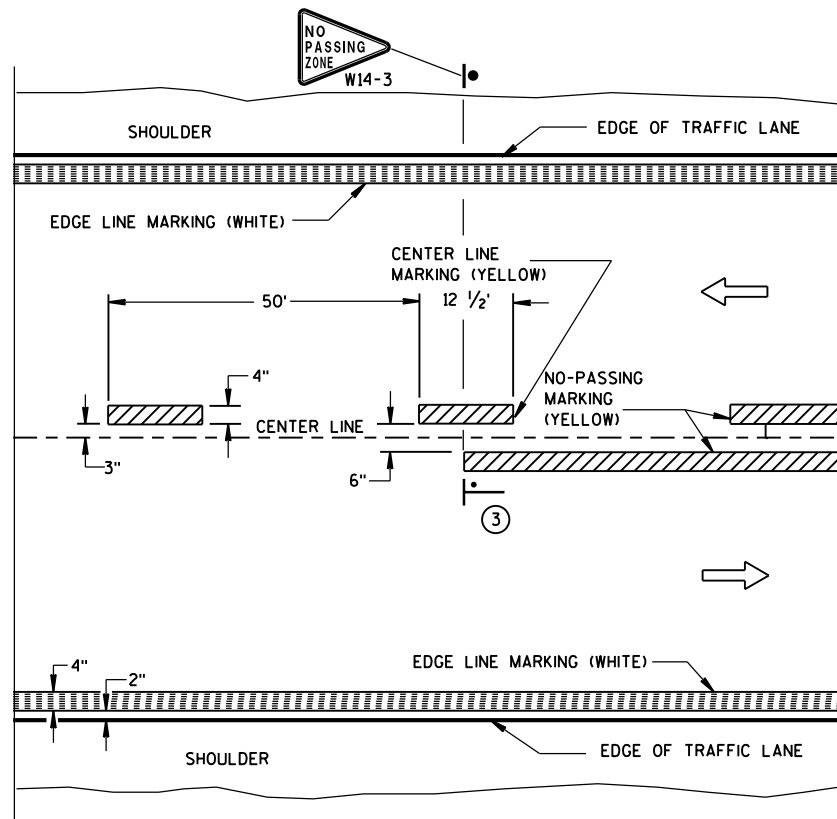


TYPE 5 LANE DROP ARROW

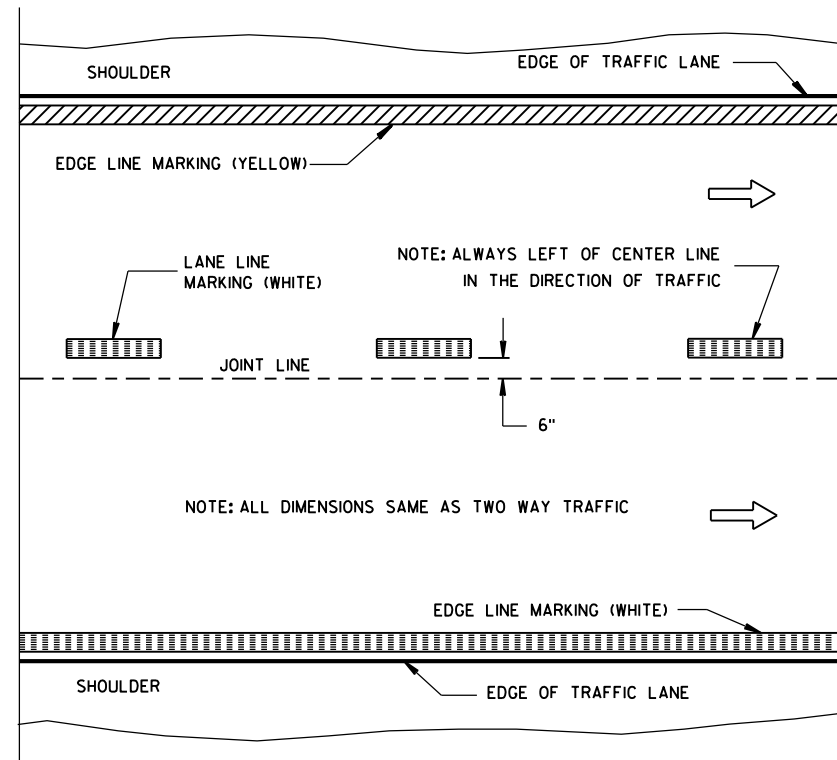
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/1/11 DATE /S/ Thomas N. Nathahn
STATE TRAFFIC ENGINE 31 SIGN
FHWA

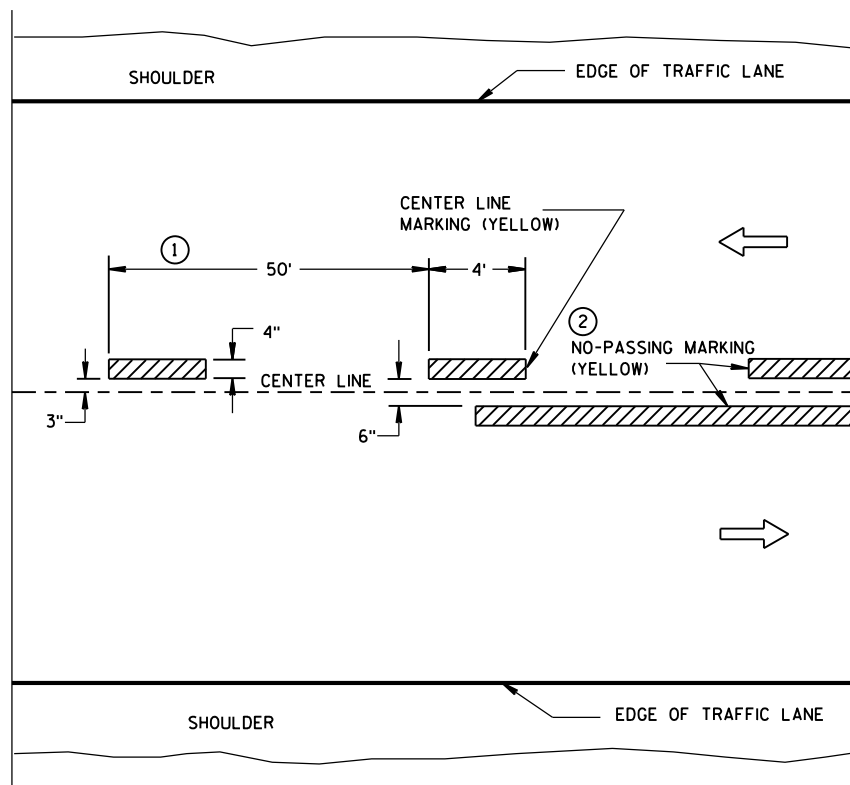


TWO WAY TRAFFIC

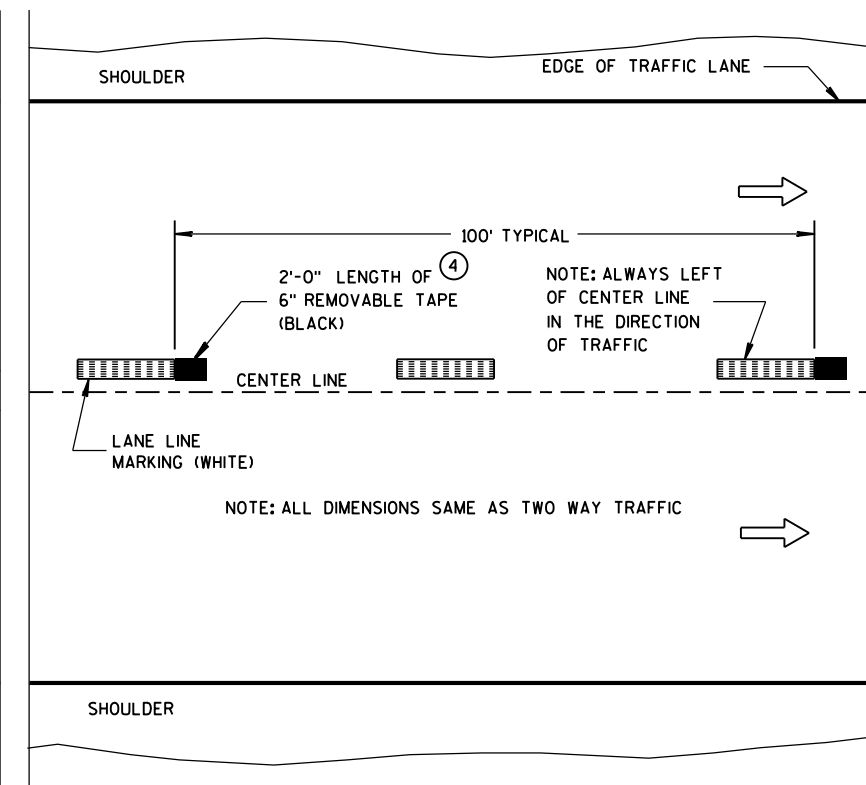


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

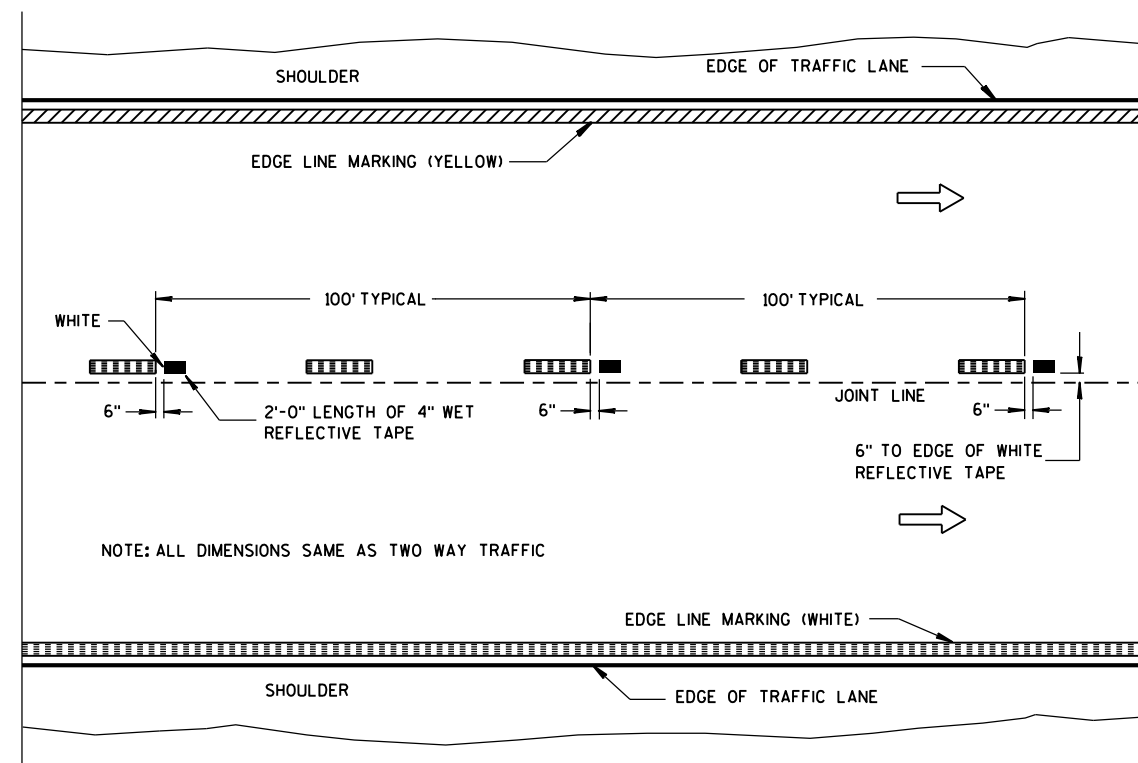
GENERAL NOTES

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

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

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



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

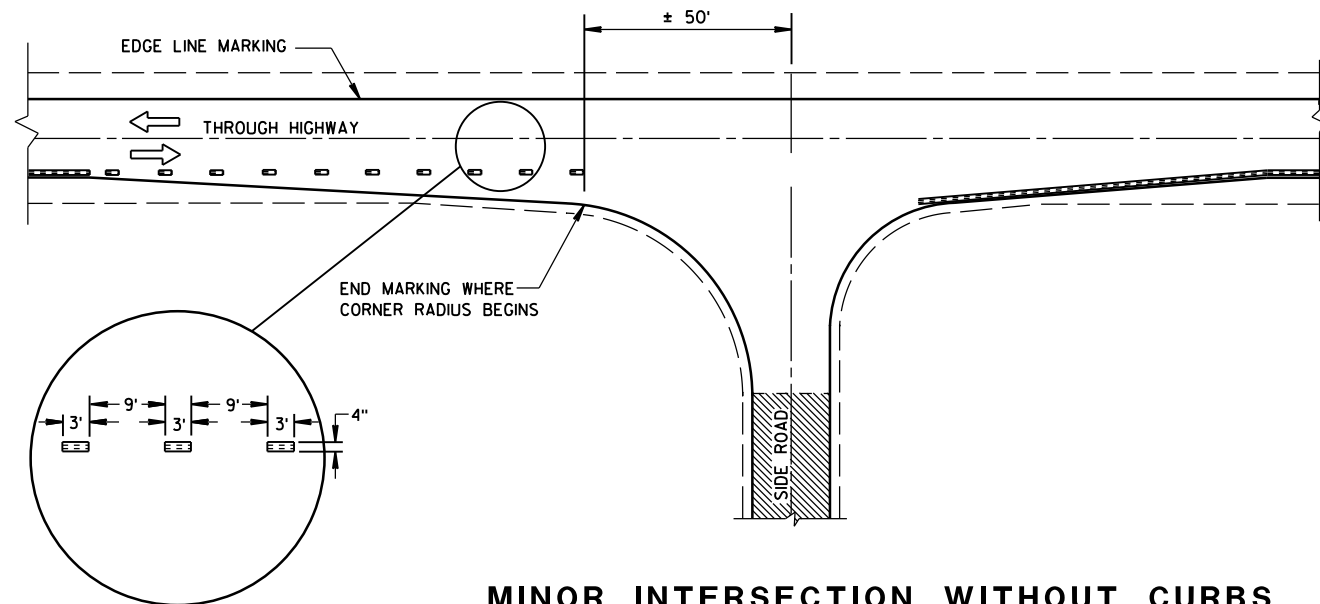
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-1-2012 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER 32 :SIGN
FHWA



MINOR INTERSECTION WITHOUT CURBS

⑦

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

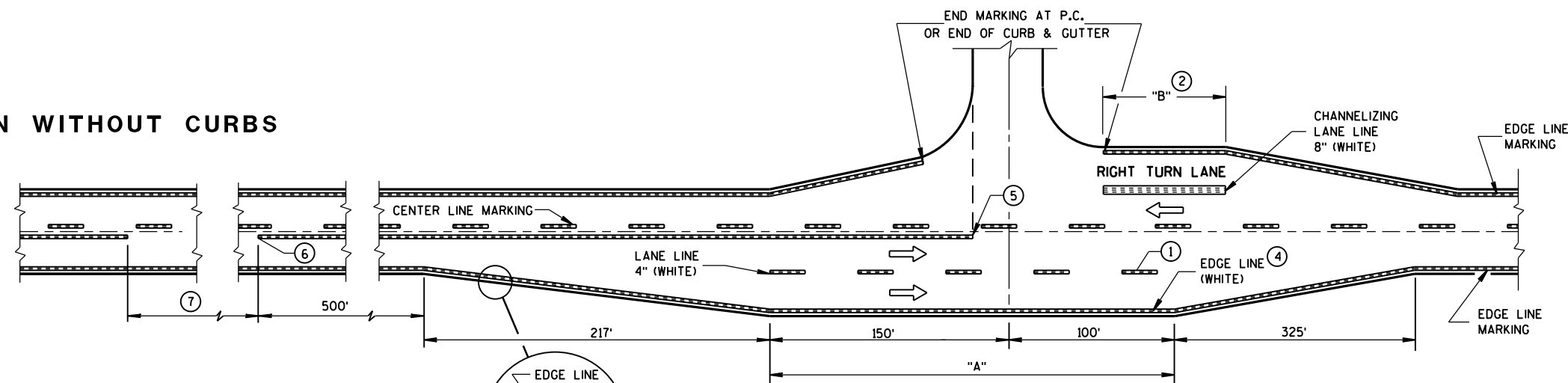
GENERAL NOTES

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

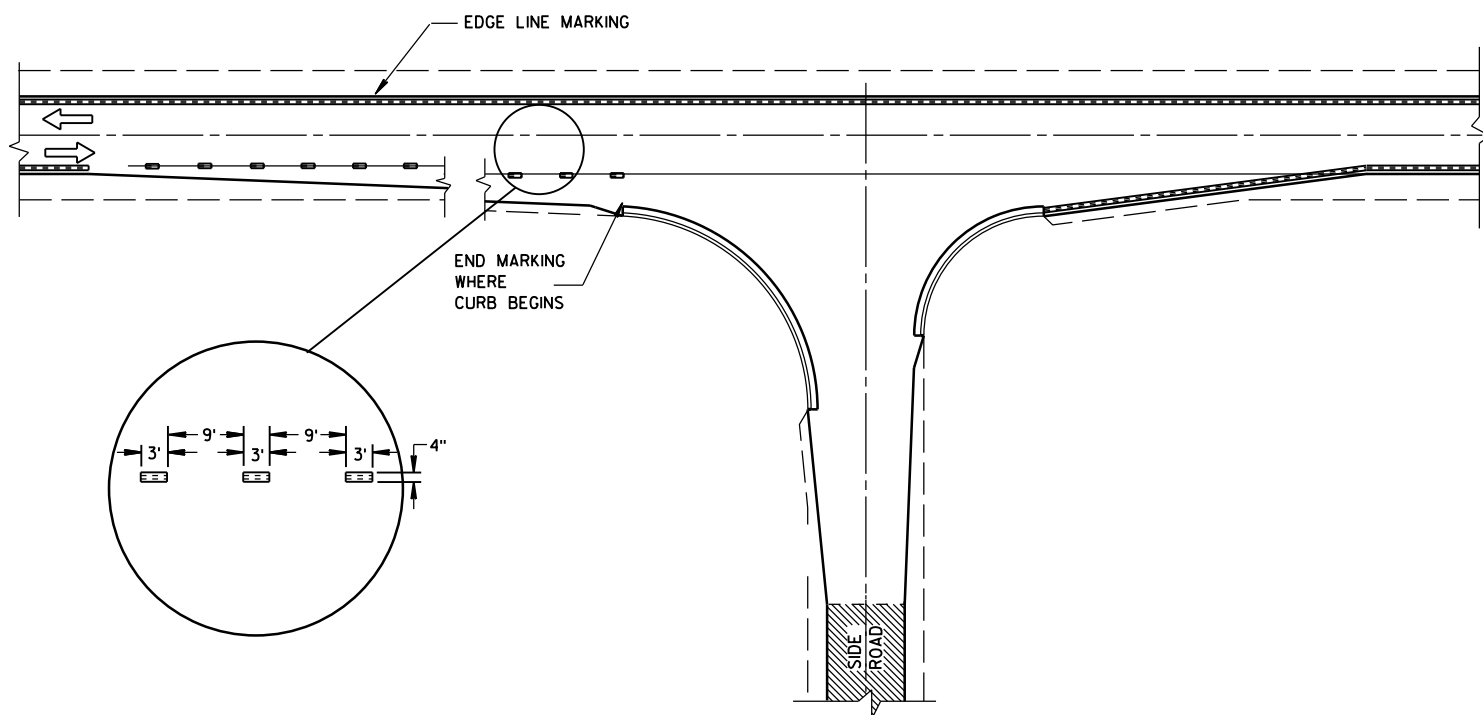
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
- ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

- ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
- ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

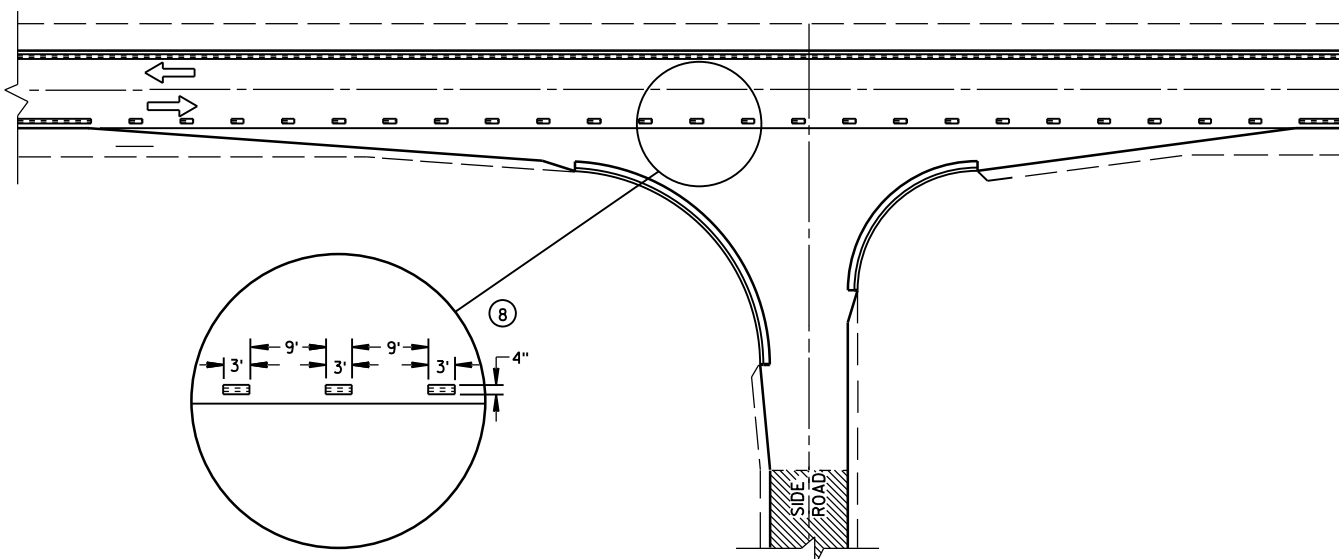
ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



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



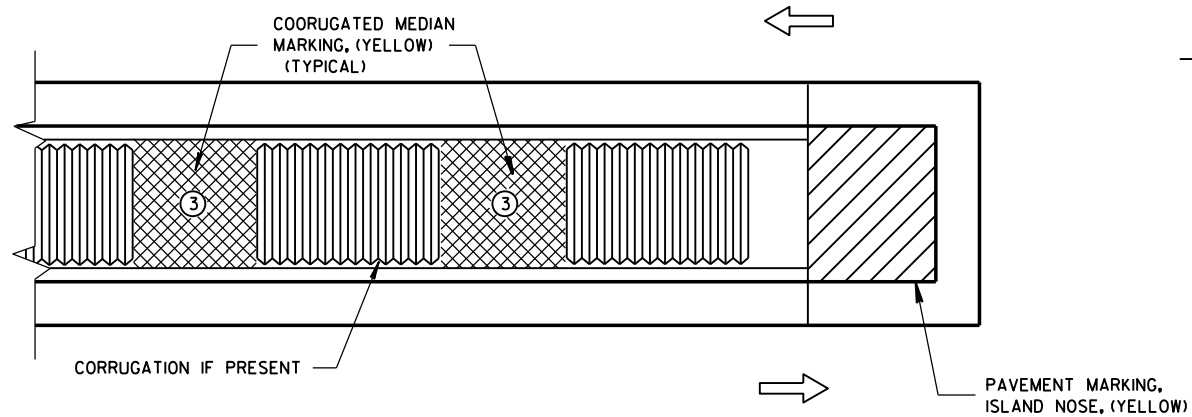
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



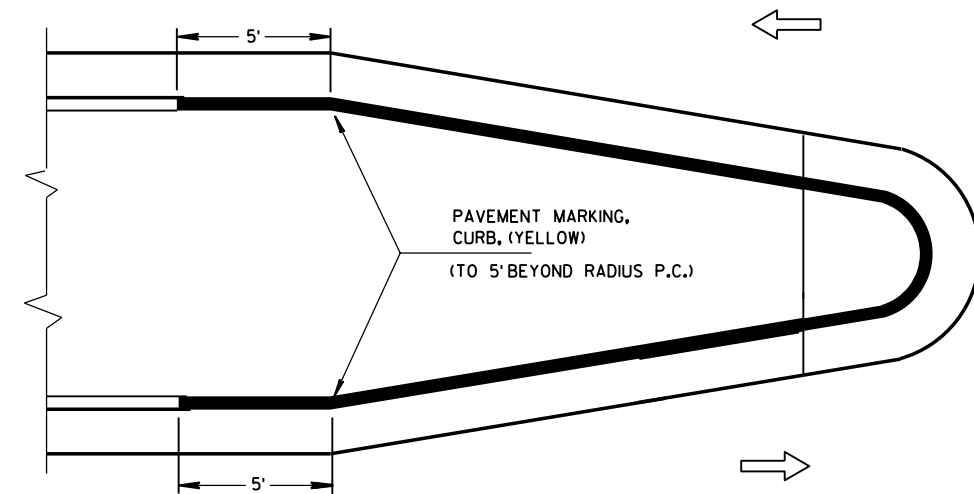
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

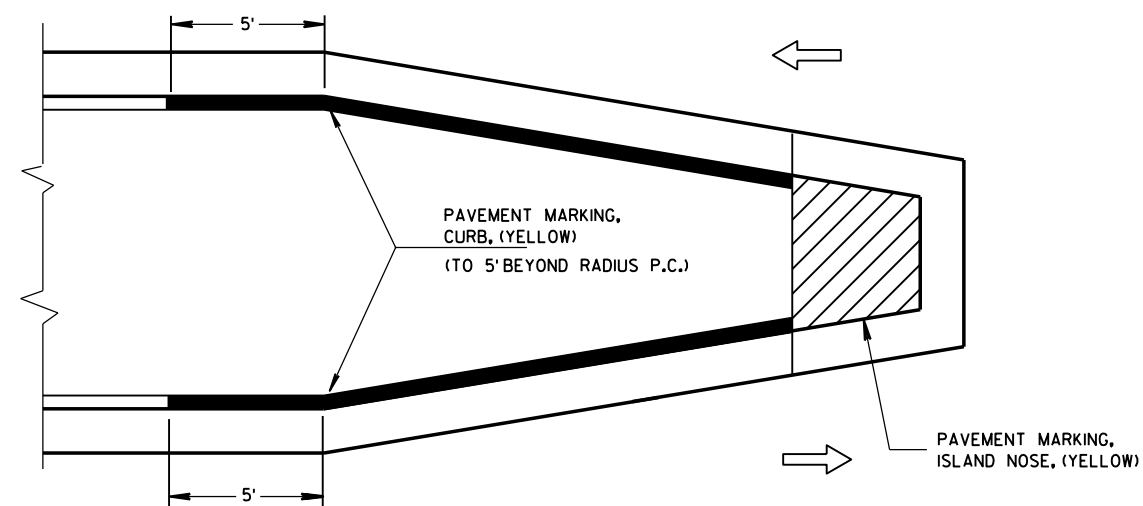
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

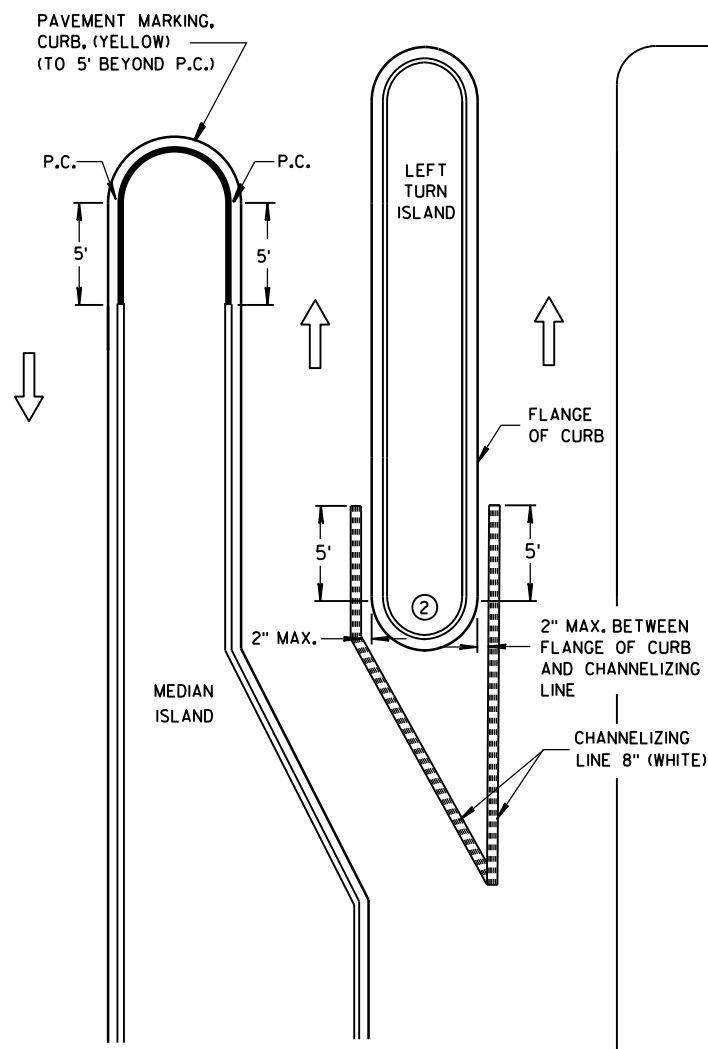


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

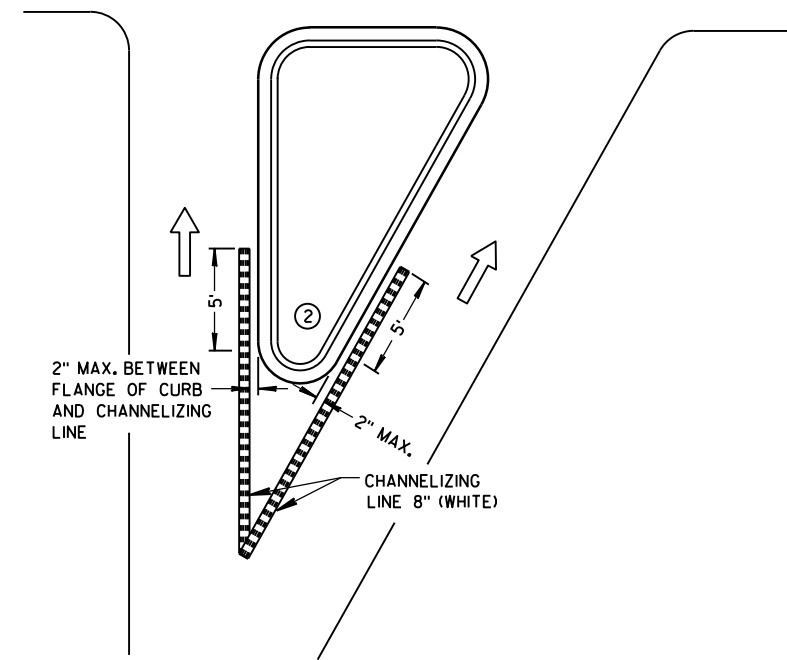
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

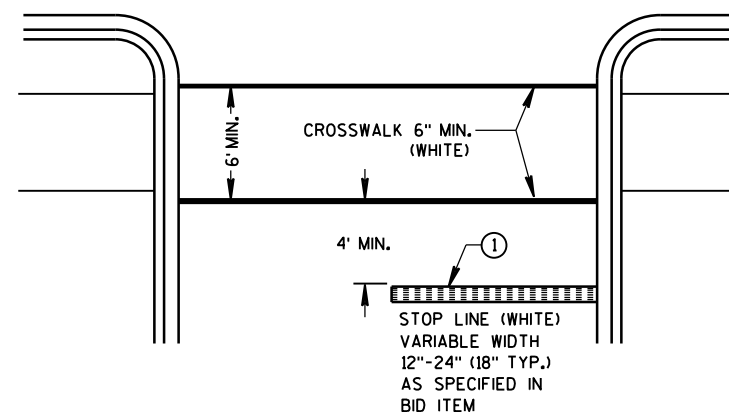
- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED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



RIGHT TURN ISLAND

LEGEND

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



STOP LINE AND CROSSWALK

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TWO-LANE ROADWAY

SYMBOLS



WORK AREA



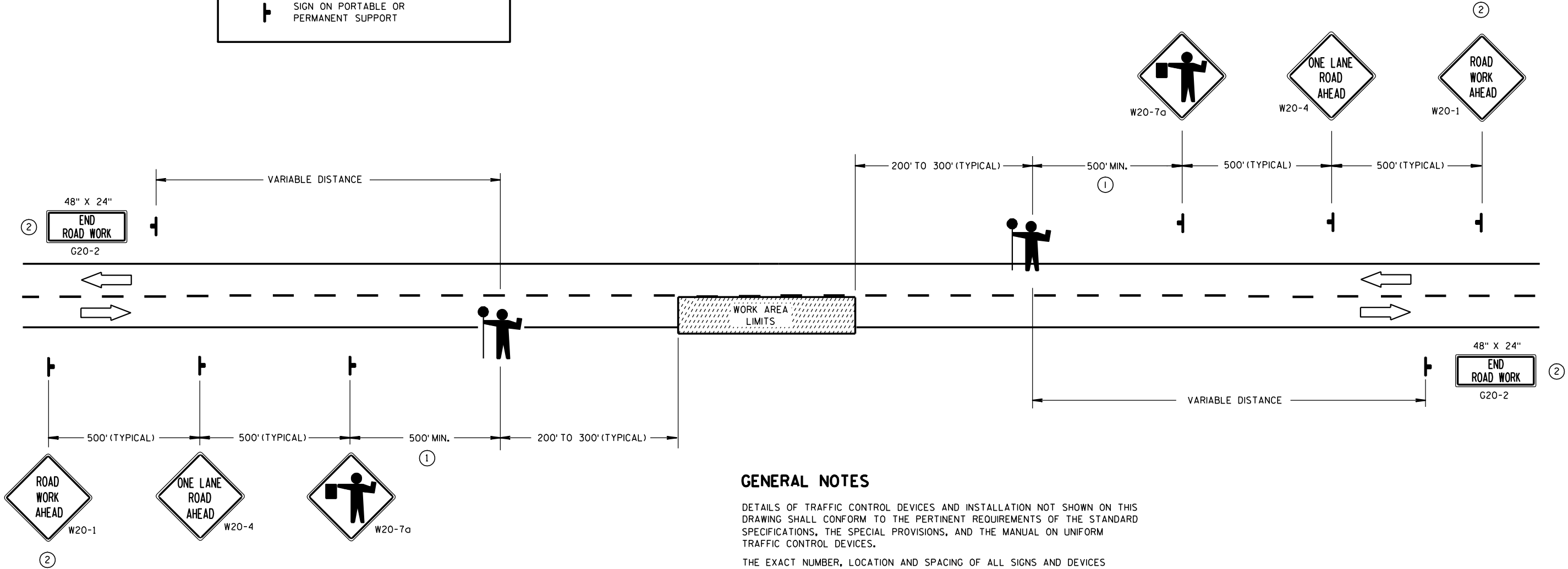
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



SIGN ON PORTABLE OR PERMANENT SUPPORT



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



GENERAL NOTES

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

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

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

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

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

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

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

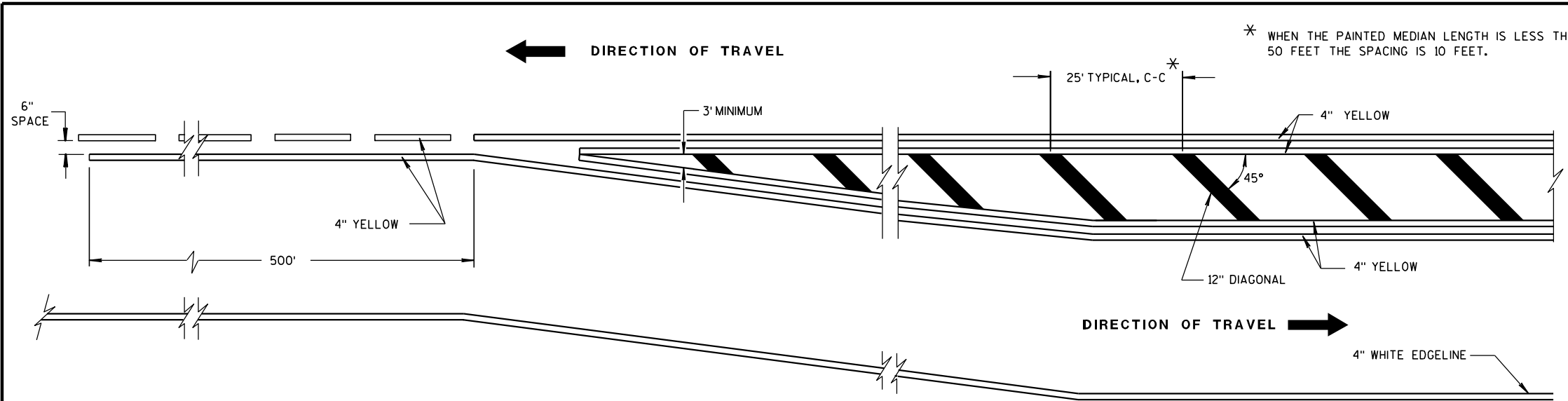
TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/5/06
DATE

/S/ Thomas N. Natho
STATE TRAFFIC ENGINE 35
DESIGN

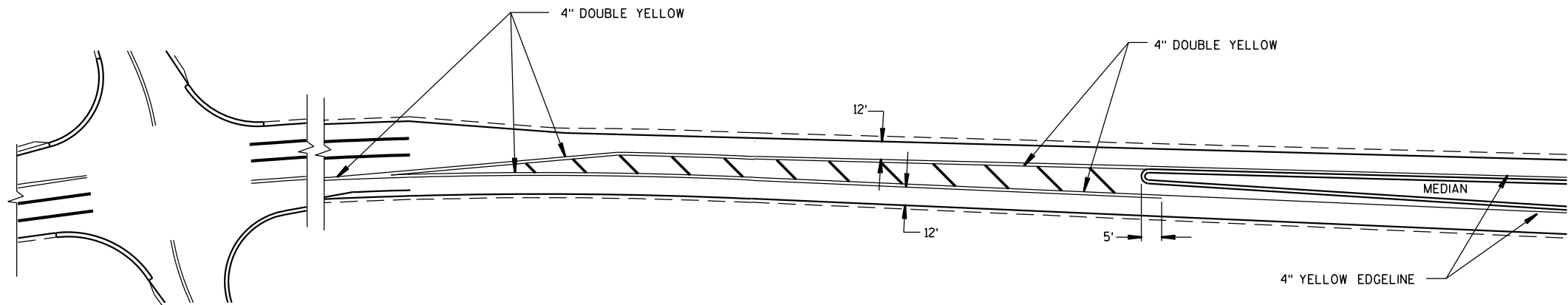
FHWA



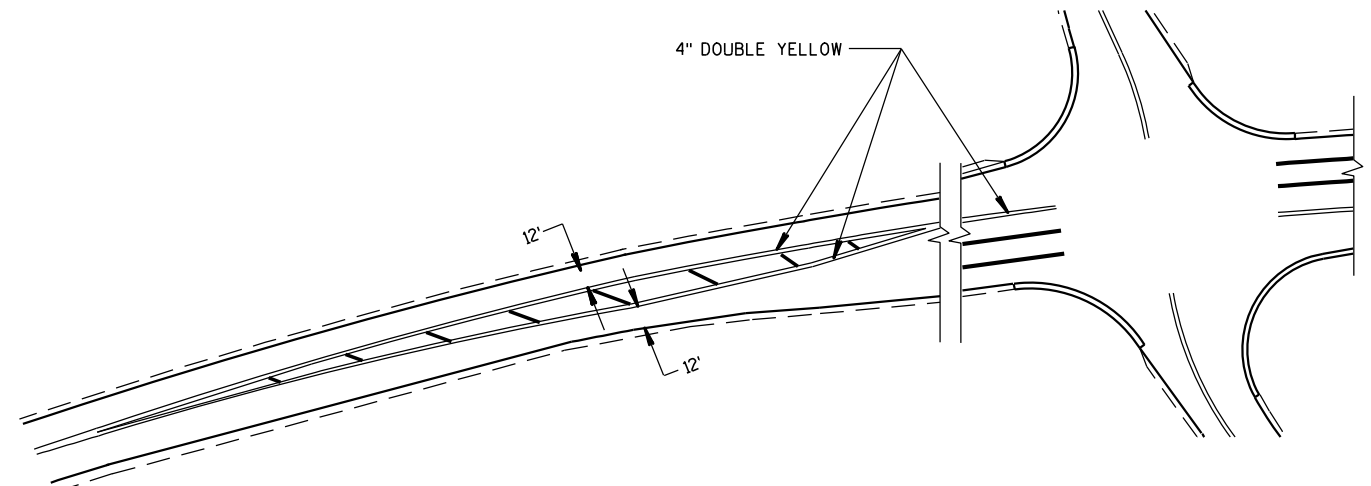
MEDIAN ISLAND DETAIL

GENERAL NOTE

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



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED	/S/ Thomas N. Nothohm		
2-5-09	DATE	STATE TRAFFIC ENGINEE 36	IGN
FHWA			

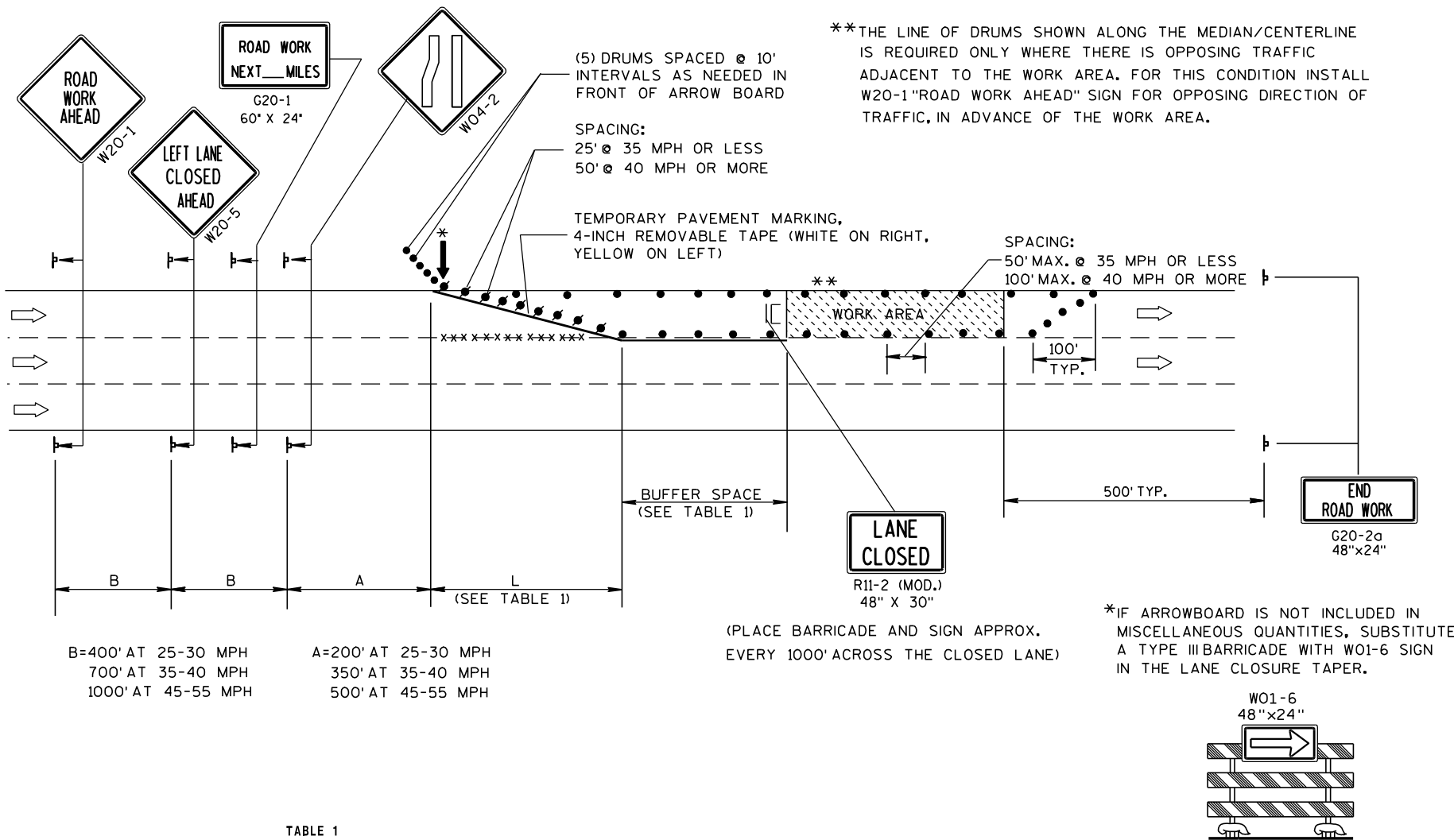


TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- ↑ ARROW BOARD
- IC/C TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE 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.

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

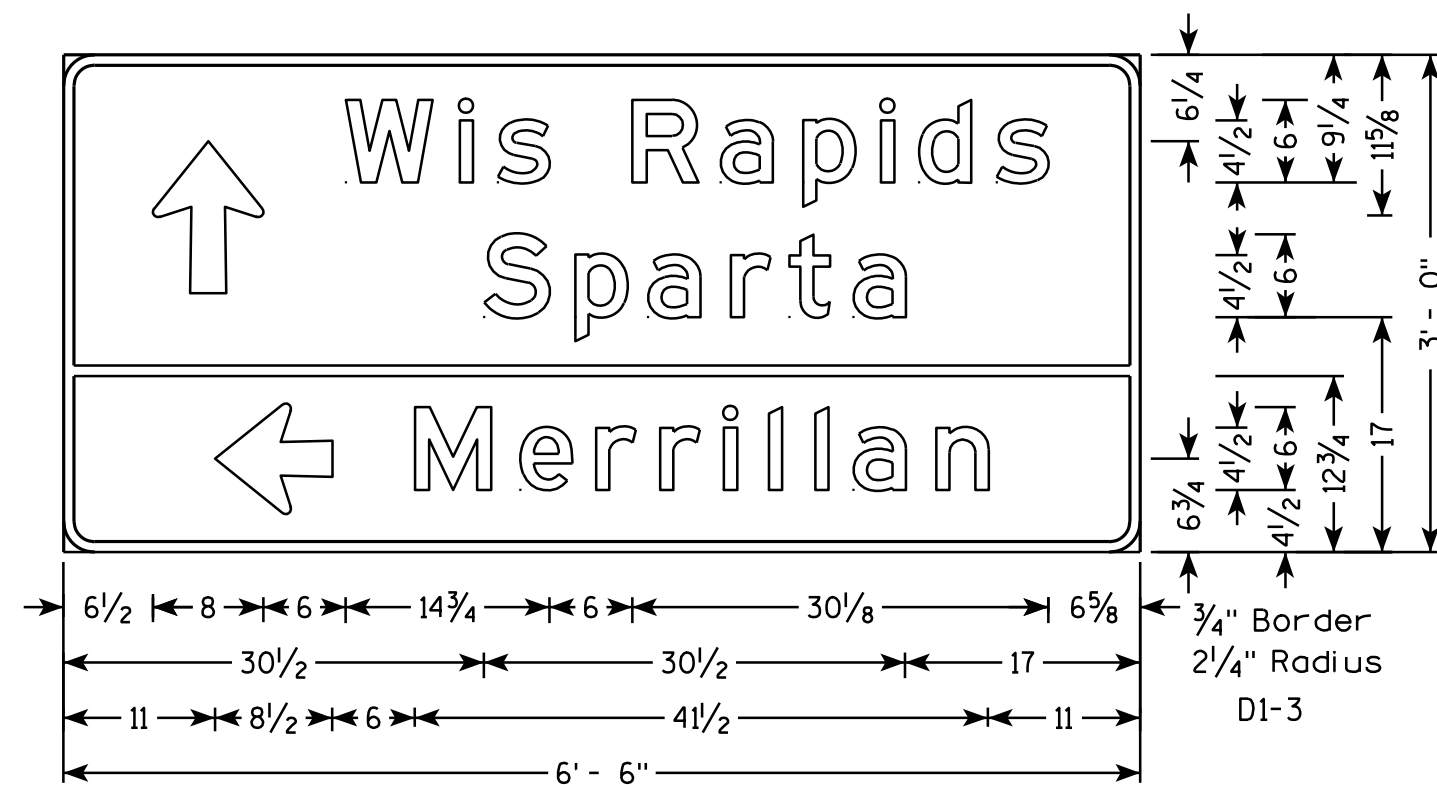
TRAFFIC CONTROL,
SINGLE LANE CLOSURE,
NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

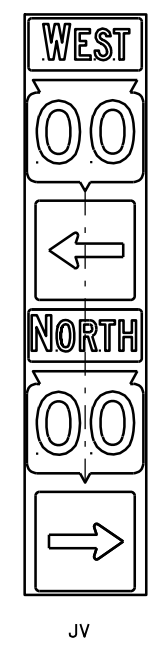
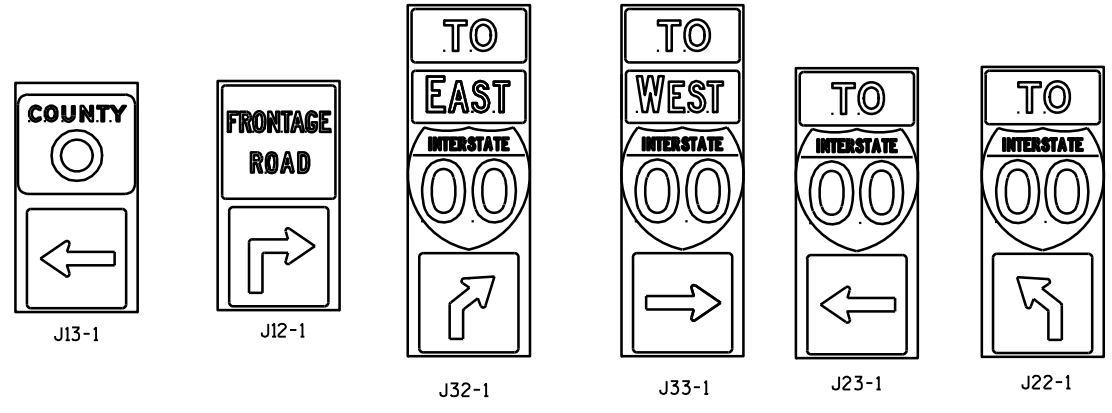
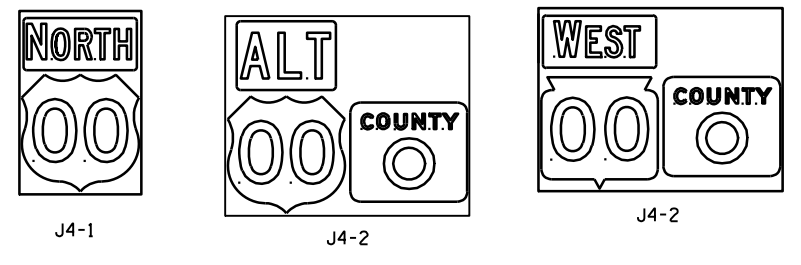
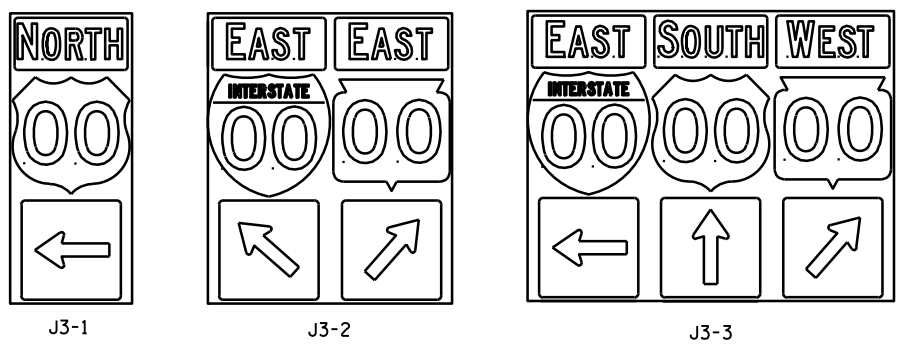
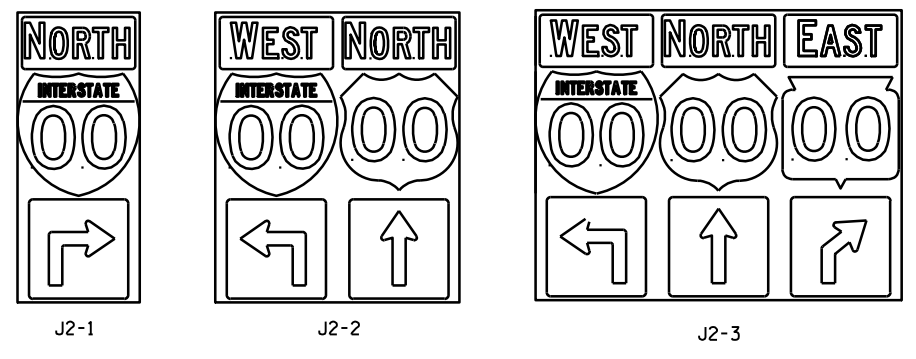
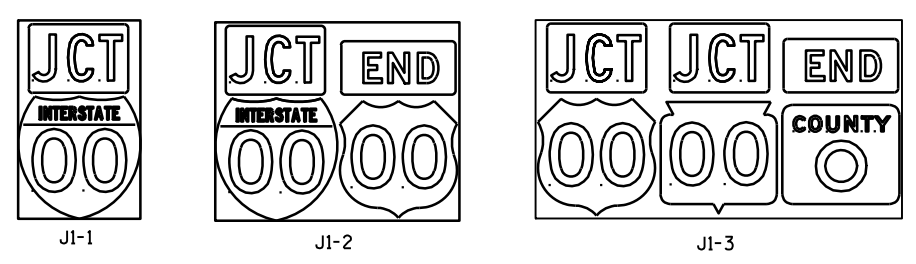
APPROVED
5/23/00 /S/ Chester J. ...
DATE CHIEF SIGNS AND MARKINGS INEER
FHWA

NOTES

1. Sign Is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - GREEN
Message - WHITE
3. Message Series - E

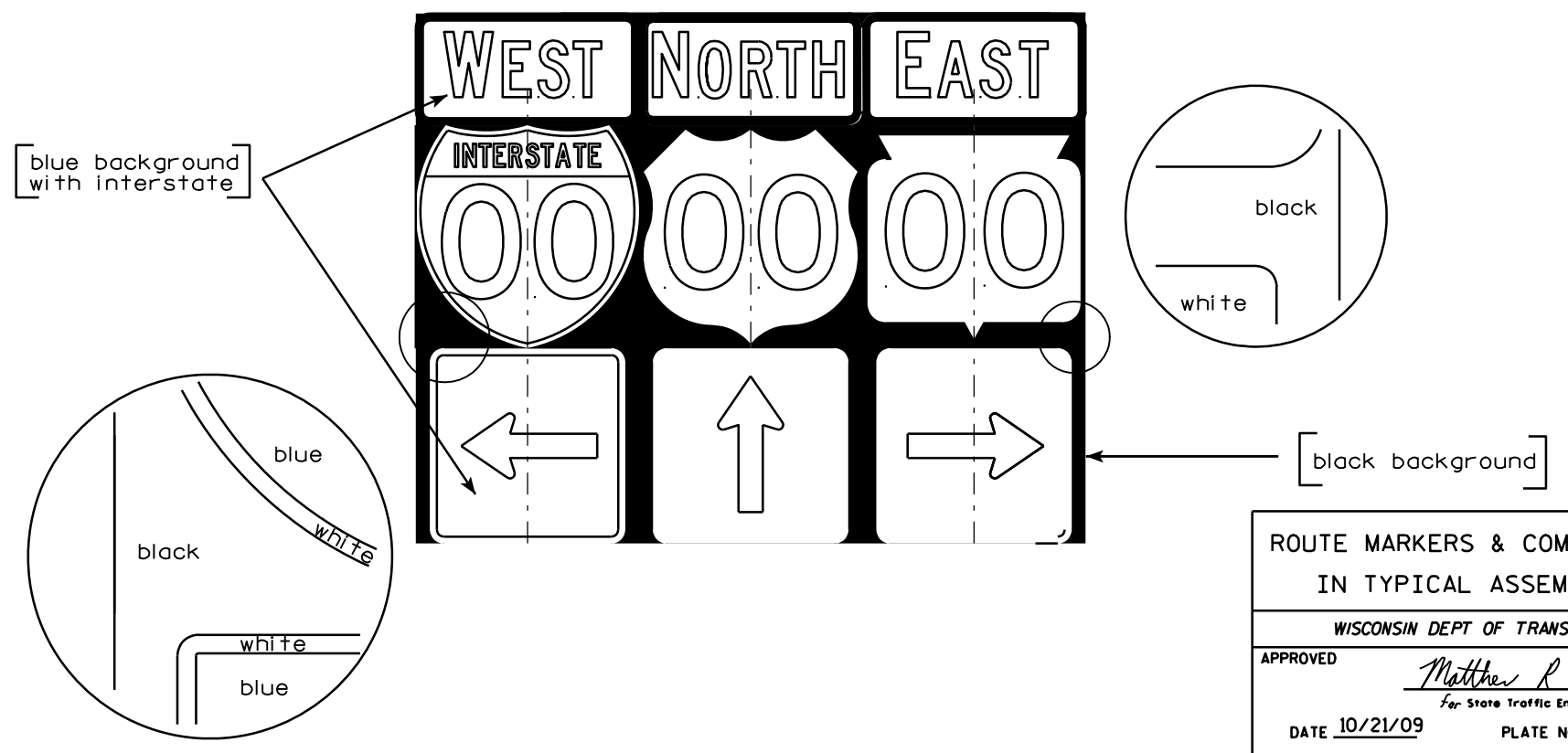


TYPICAL ASSEMBLIES

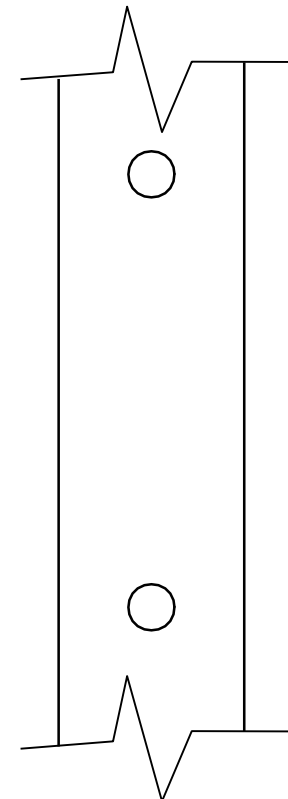
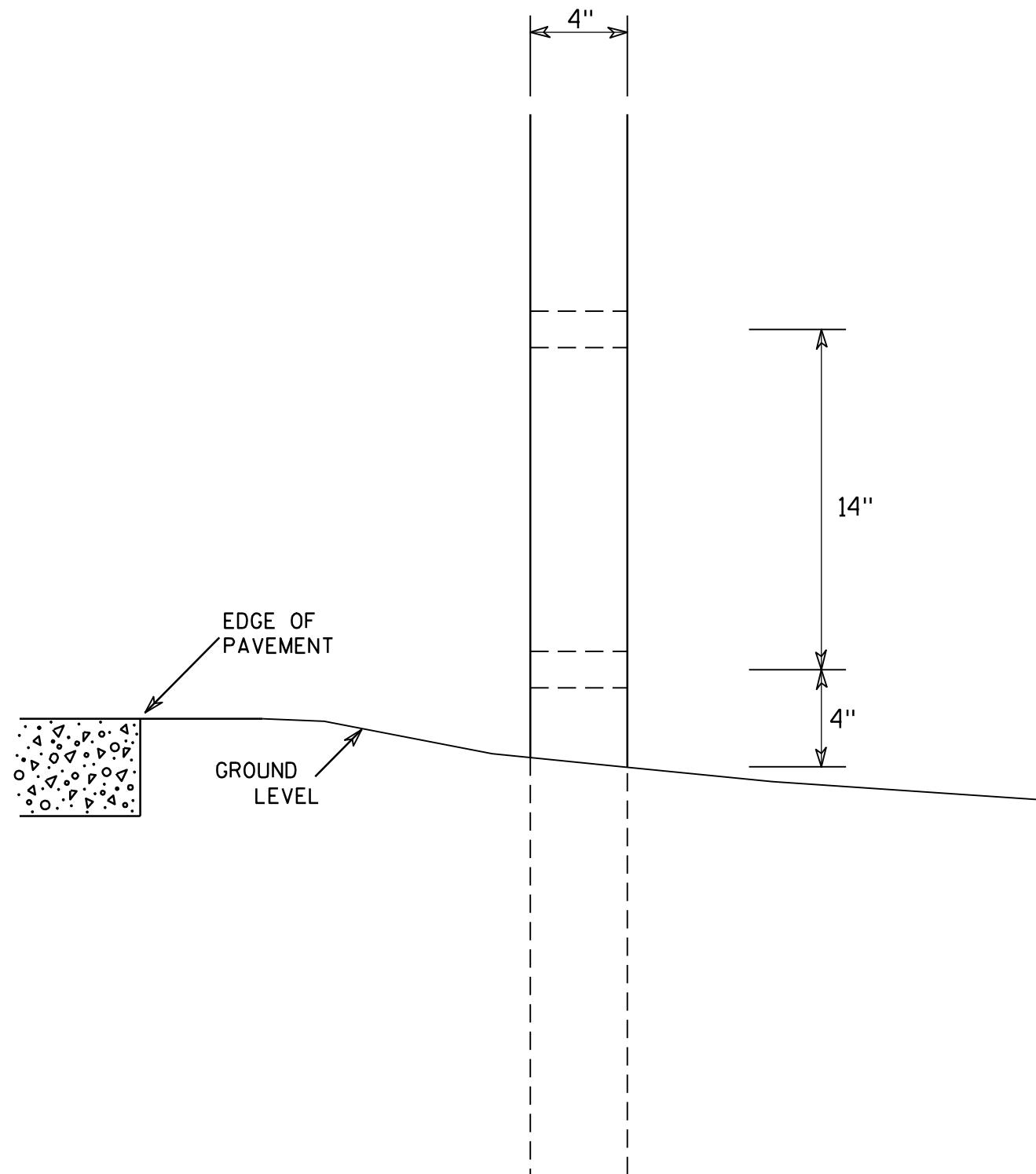


NOTES

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



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 10/21/09	PLATE NO. A2-1S.6



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1 1/2" diameter holes drilled perpendicular to the roadway centerline.

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:

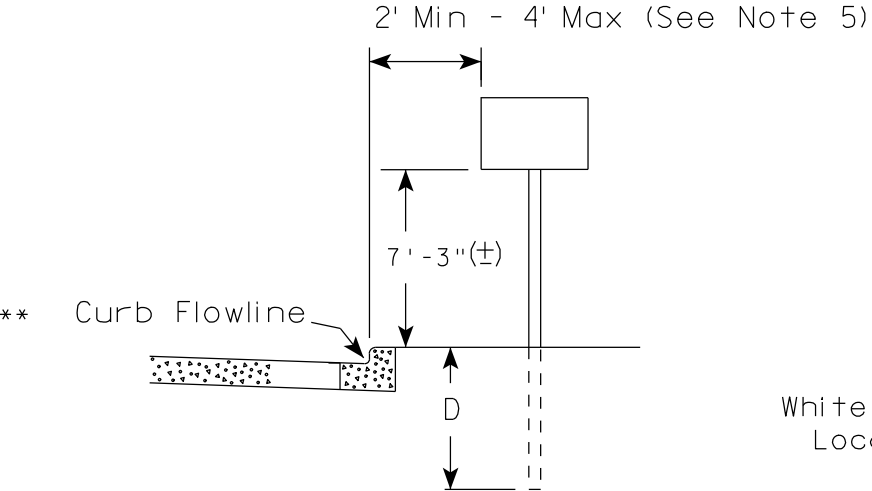
HWY:

COUNTY:

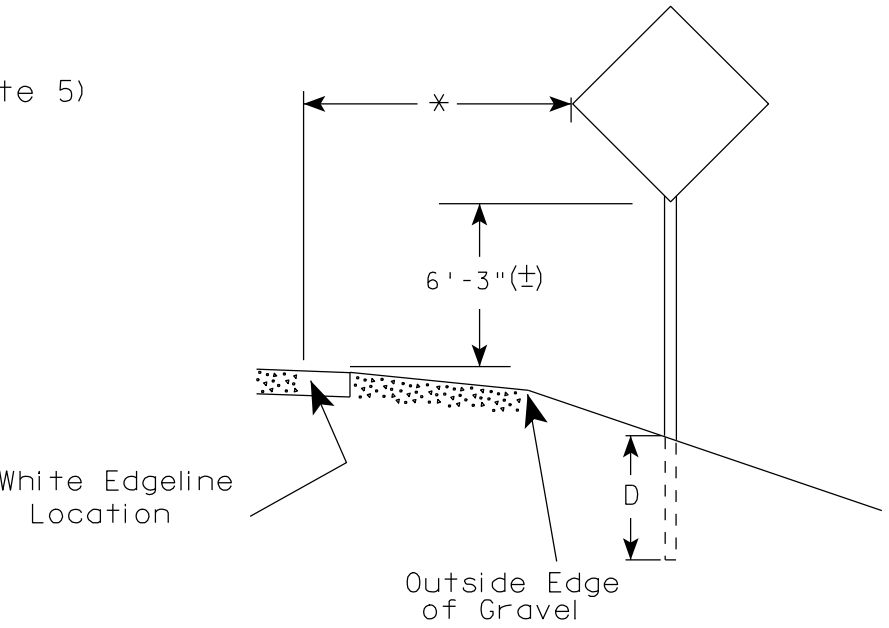
SHEET NO: 40

E

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'-3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

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

* 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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16

GENERAL NOTES

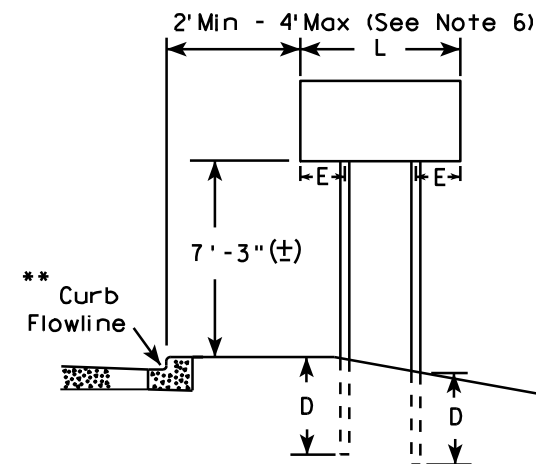
- For multiple post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

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

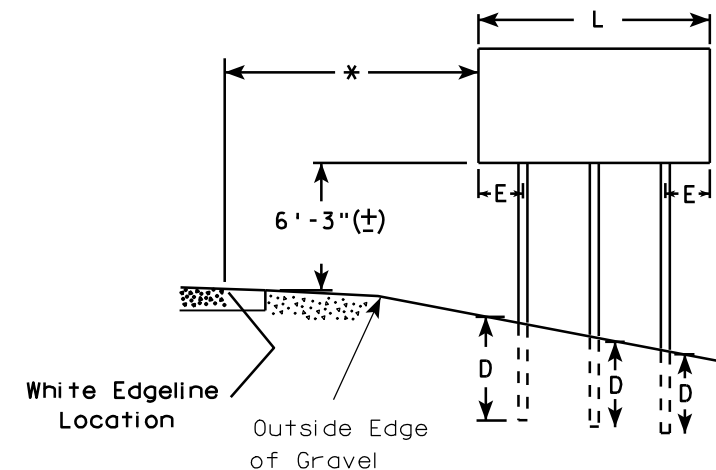
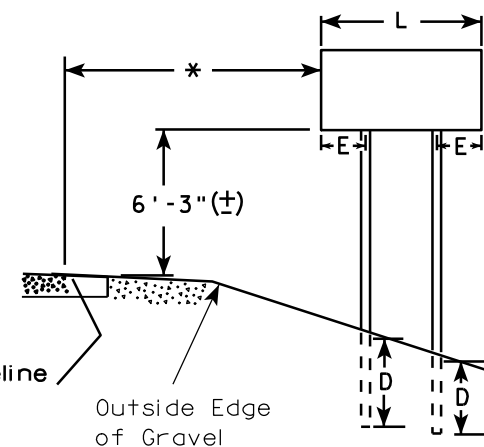
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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

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

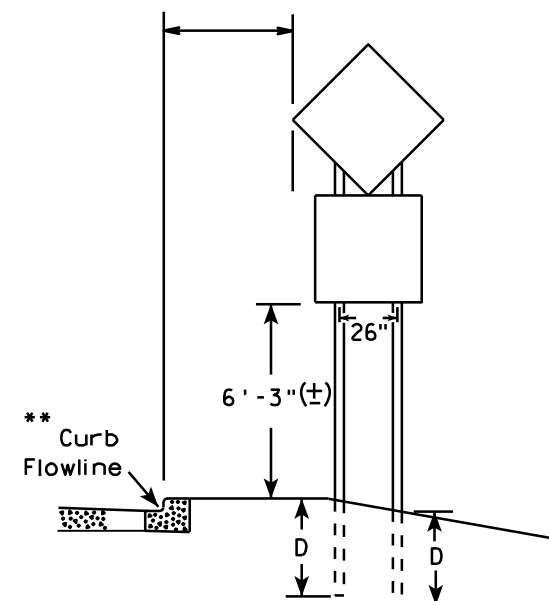
URBAN AREA



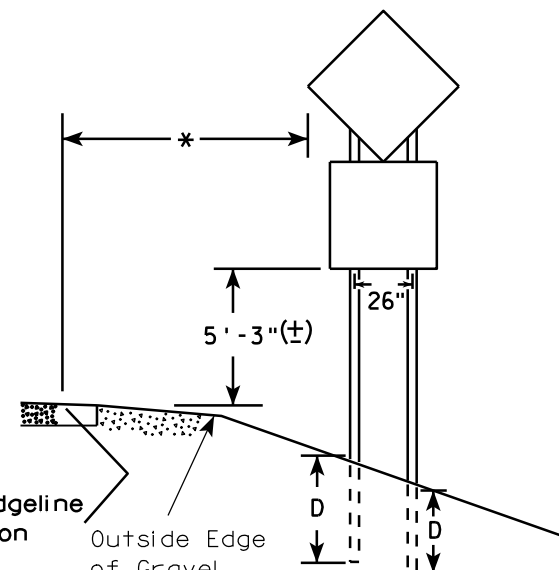
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)

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

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)

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

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)

L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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

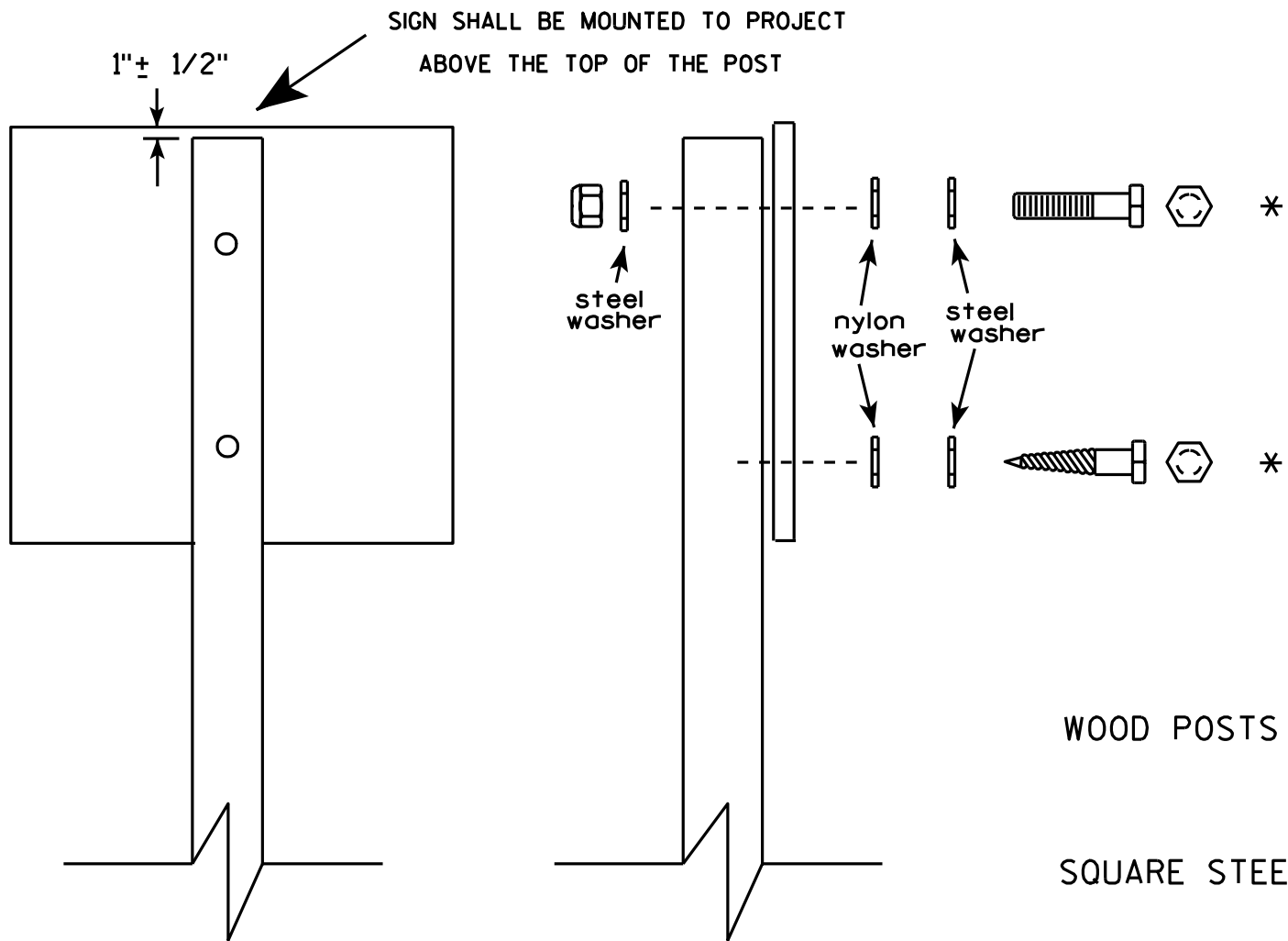
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 42

E

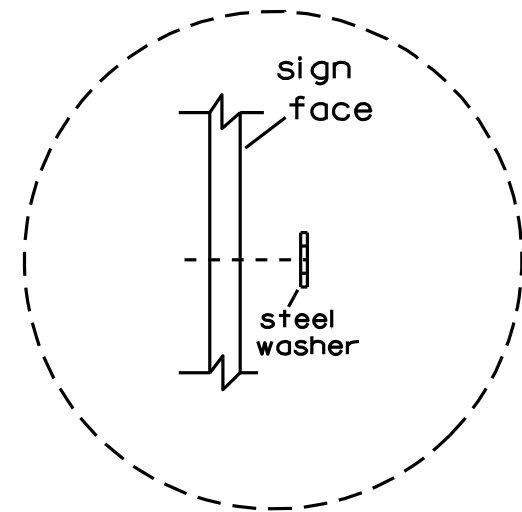


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

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

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

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

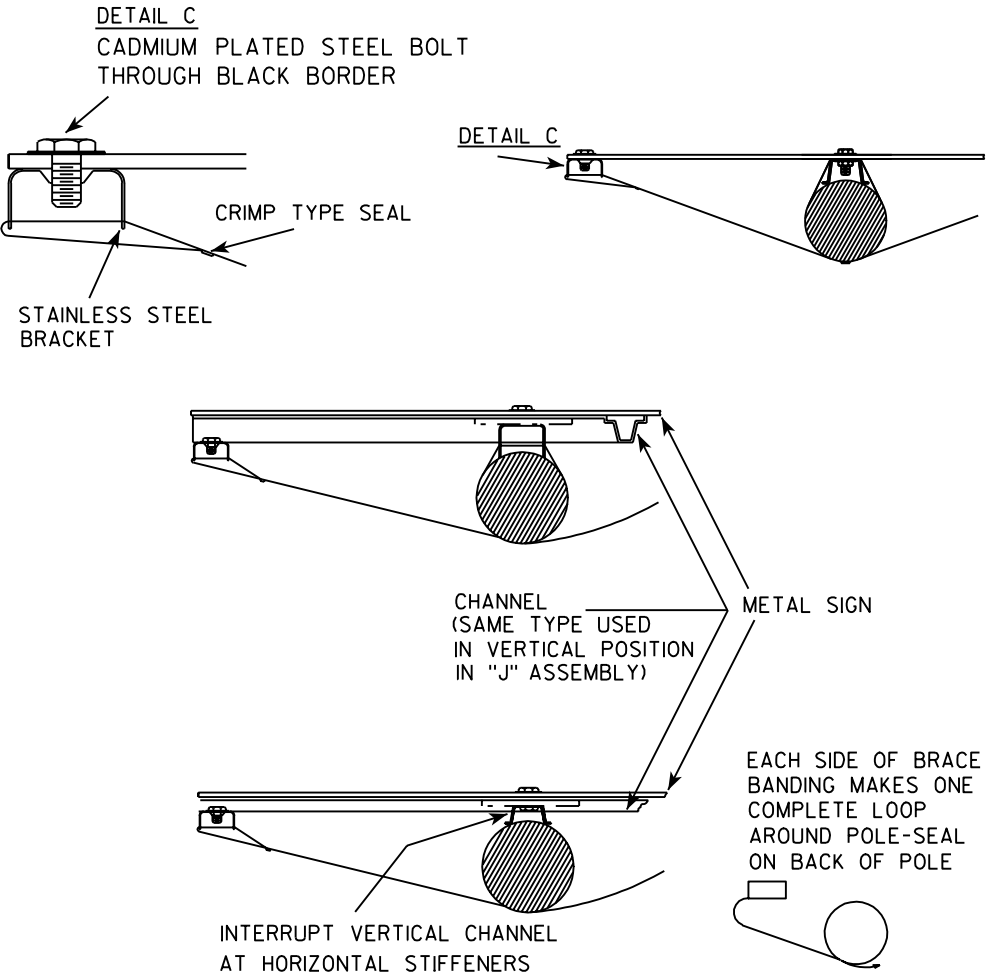


Washer Placement when Sign Has Other Than Type H or Type F Face

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

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

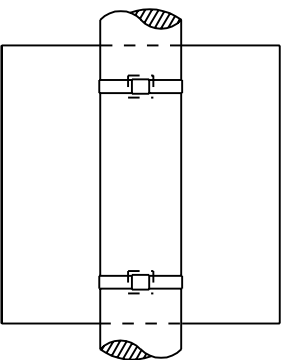
BRACE BANDING



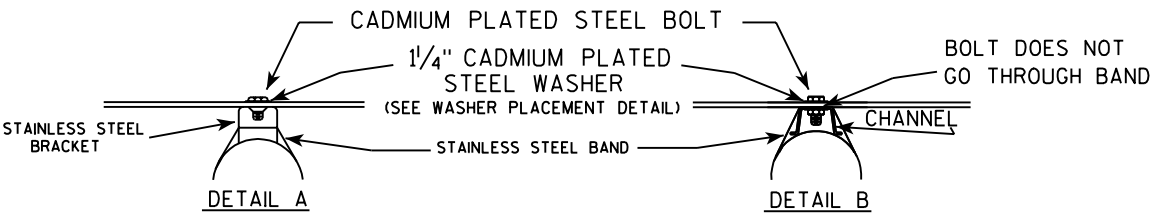
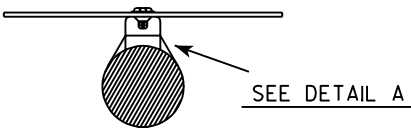
BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY
BUT NOT SO TIGHT AS TO APPRECIABLY
CURVE FACE OF SIGN.

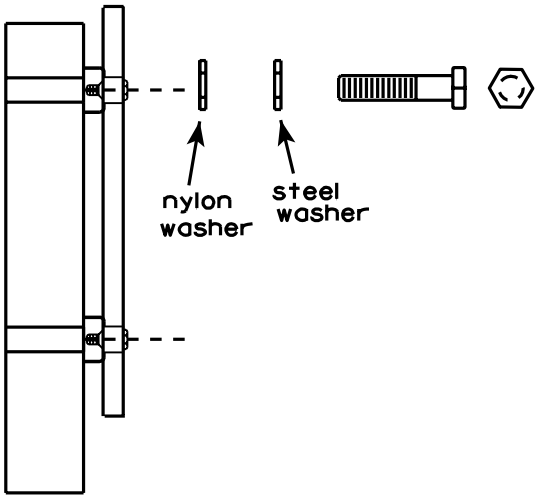
SINGLE SIGN



BRACKET BANDING

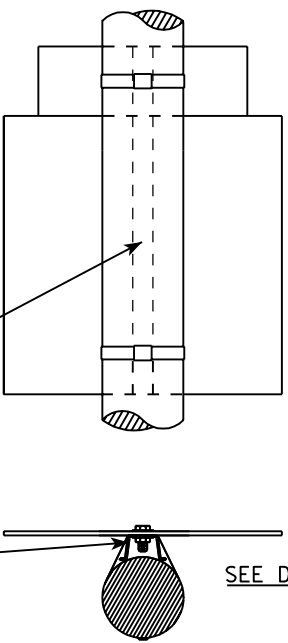


WASHER PLACEMENT



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

"J" ASSEMBLY



SEE DETAIL B

GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

7

Metric equivalent
for this sign is:

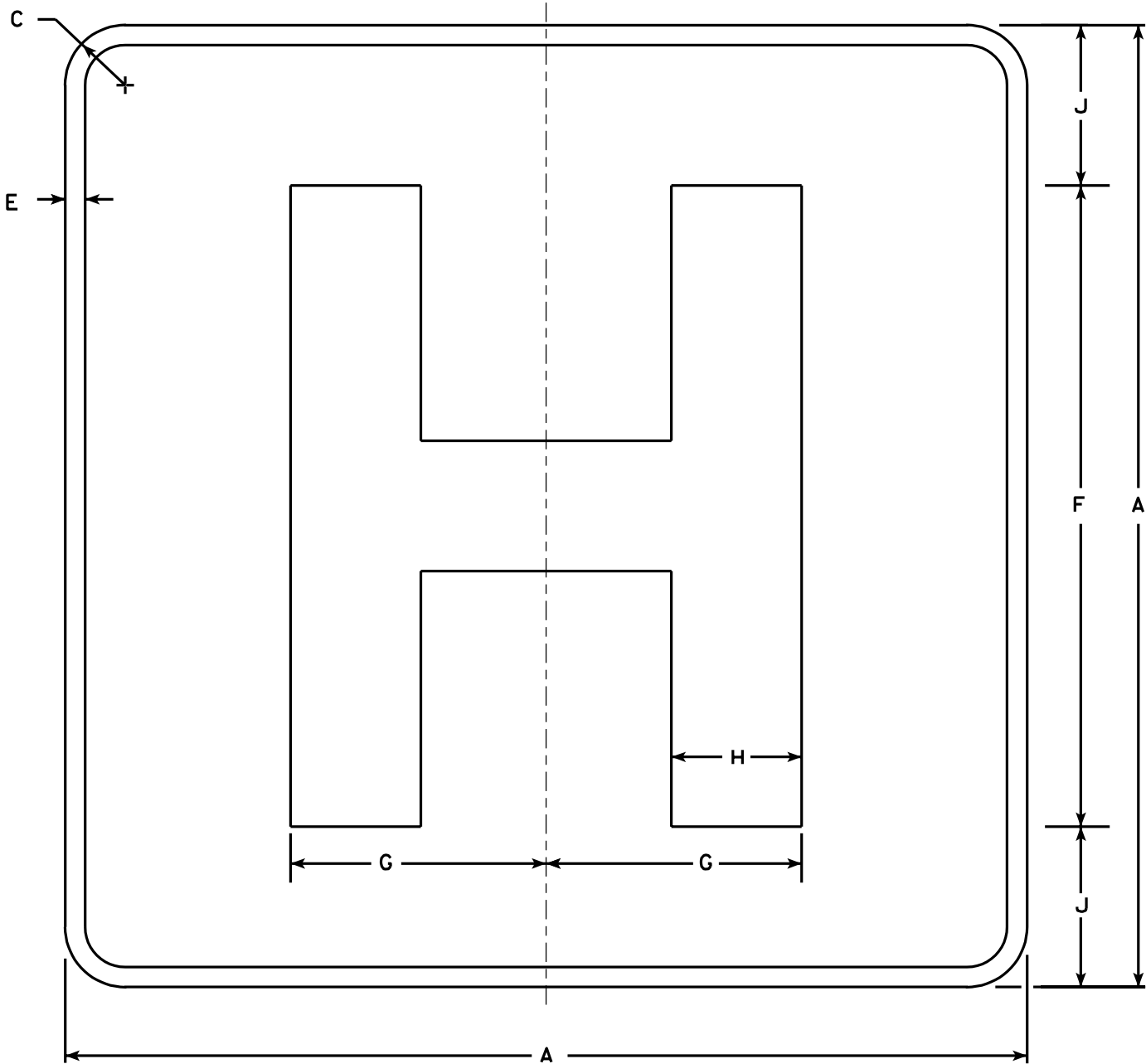
SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

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		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

PROJECT NO:

SHEET NO: 45

E



D9-2

NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Blue
Message - White - Type H Reflective
- Message Series - E Modified
- 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.

STANDARD SIGN
D9-2

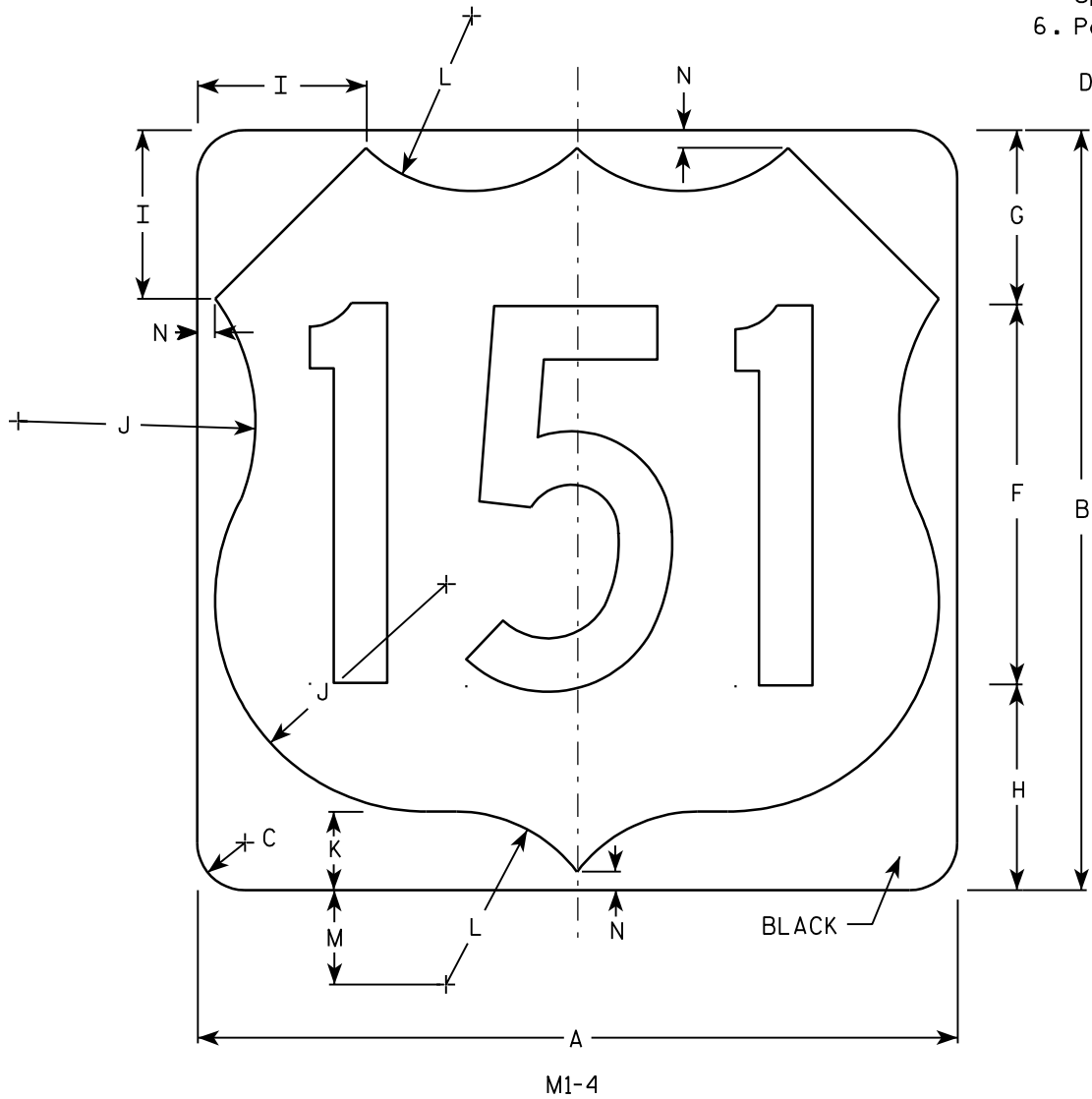
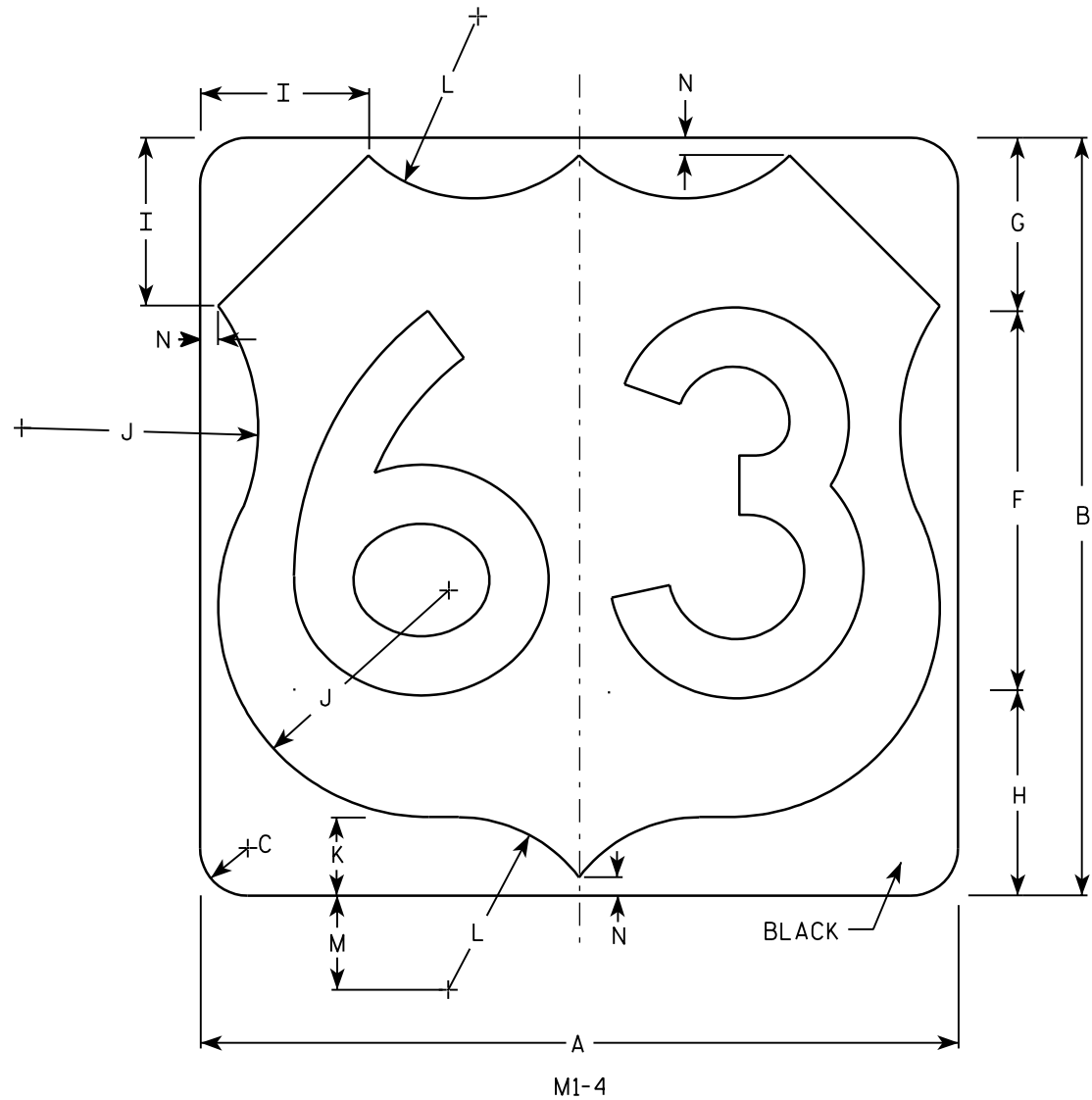
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4

NOTES

1. Sign is Type II - See Note 6 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust
spacing as per Plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or other temporary signs
Background - Reflective



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24	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	.36
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	.81
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	.81
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	.81

PROJECT NO:

HWY:

COUNTY:

USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
For State Traffic Engineer

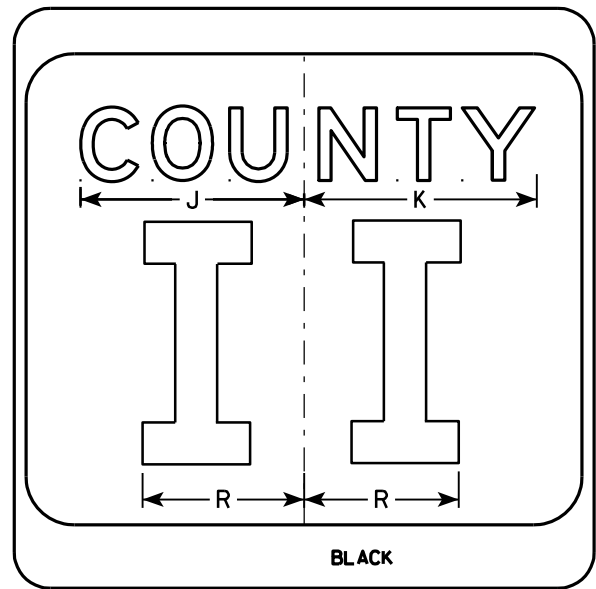
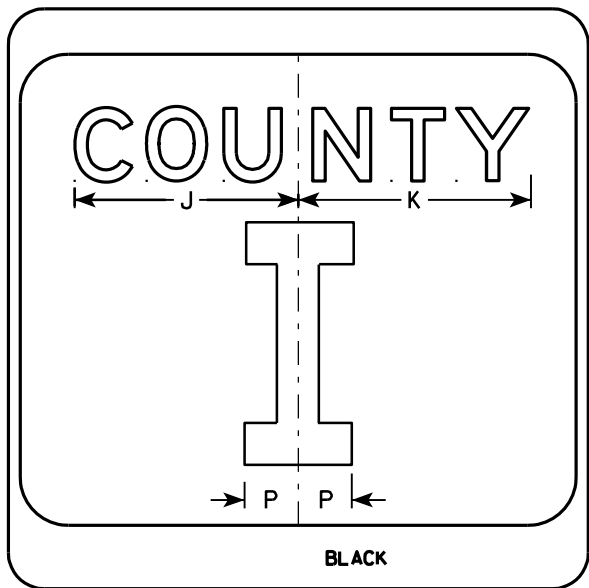
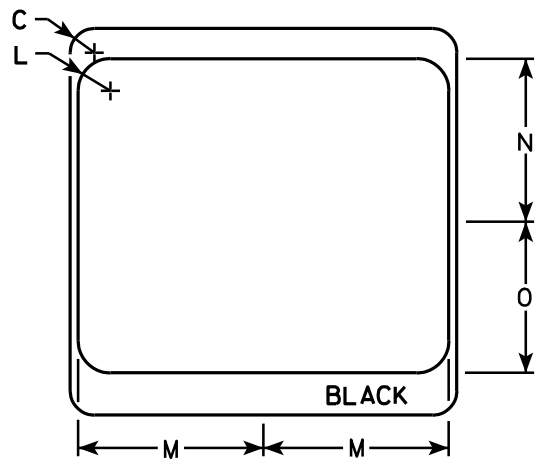
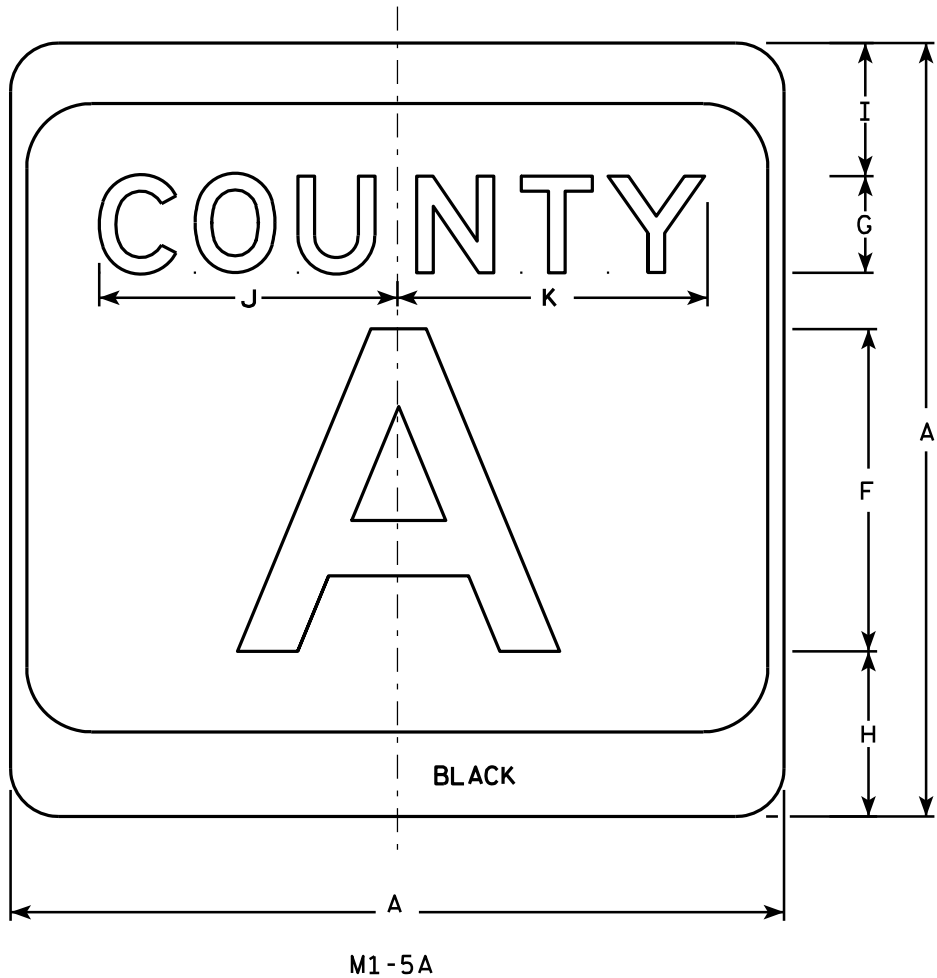
DATE 08/25/05

PLATE NO. M1-4.9

SHEET NO: 46

E

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: 47

E

CTH MARKER

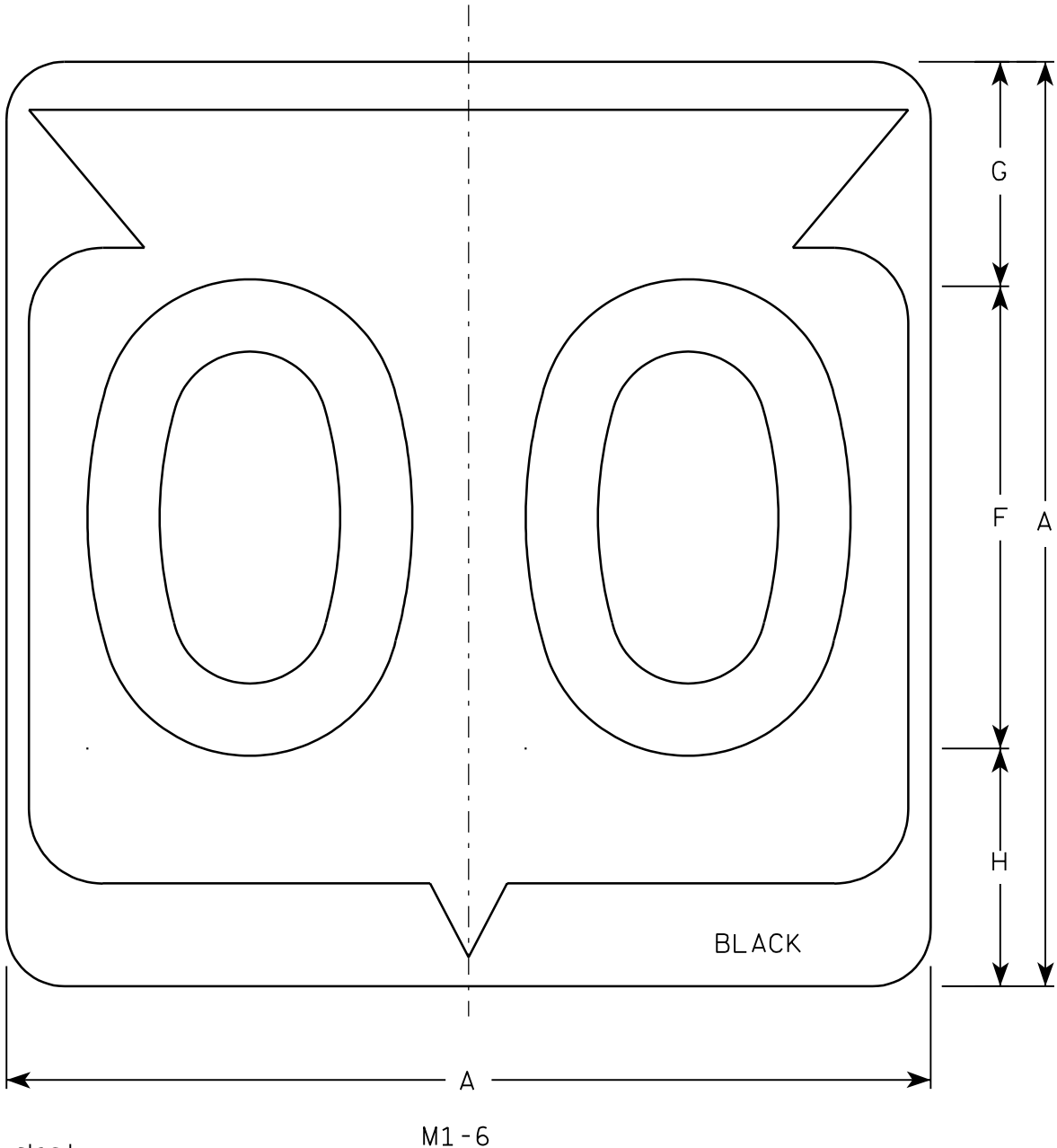
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

7



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

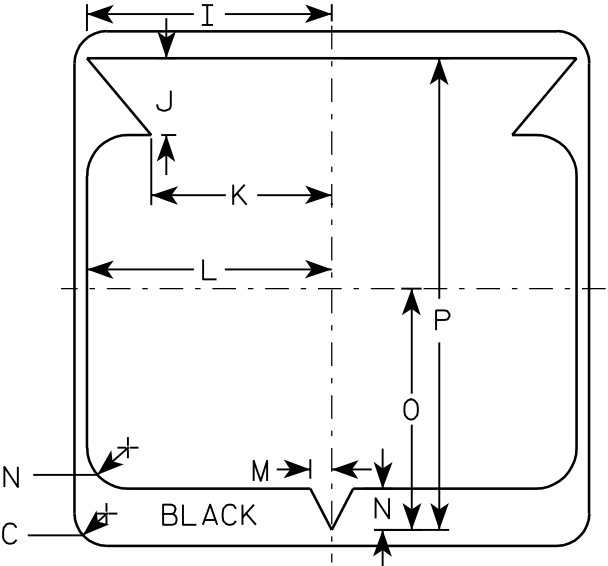
COUNTY:

SHEET NO: 48

E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

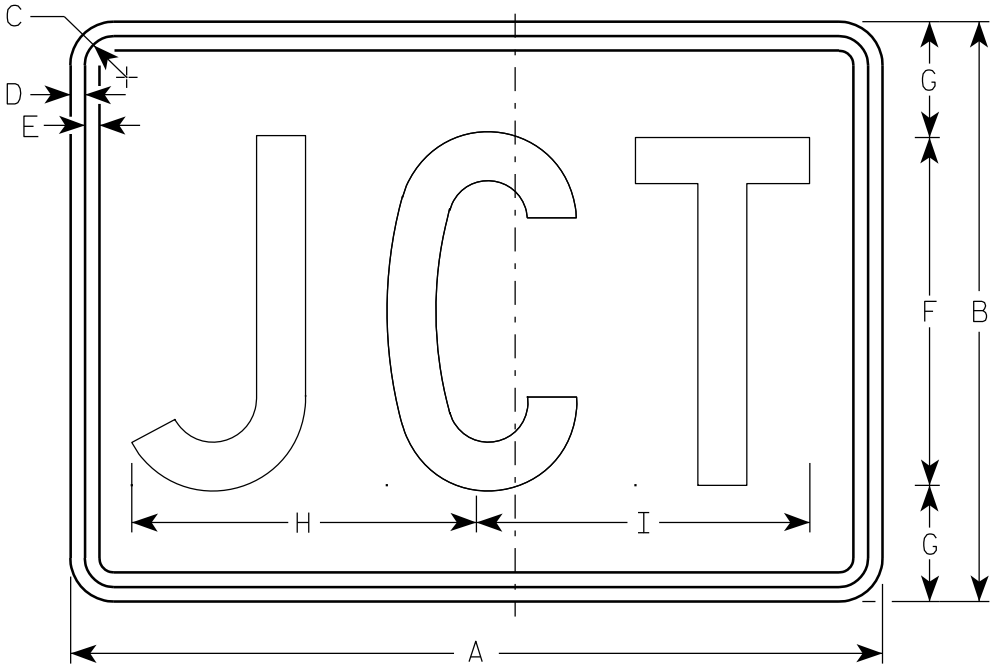
Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

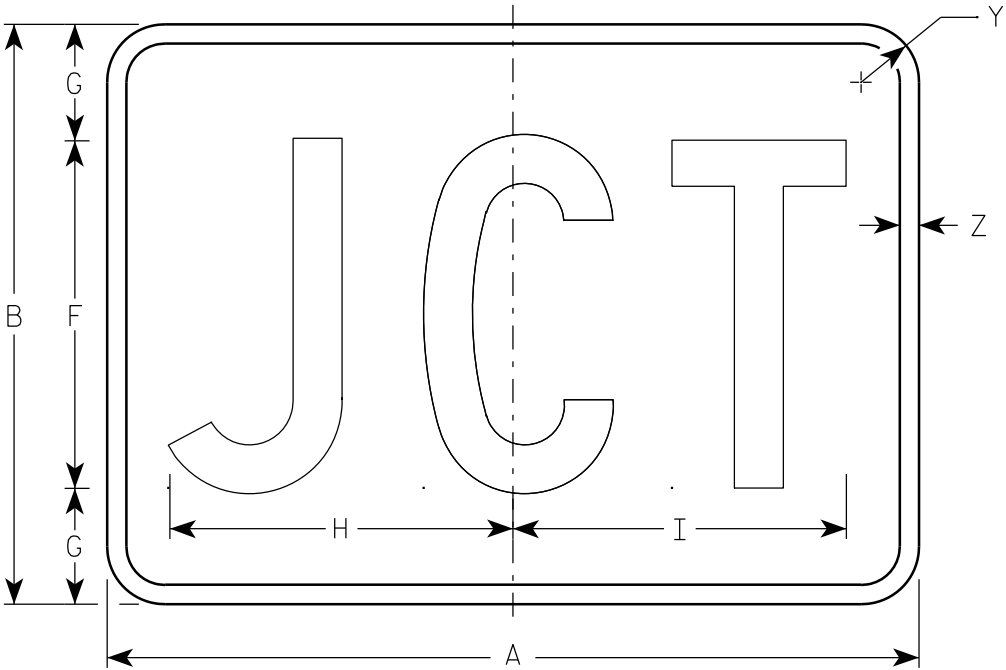
PLATE NO. M1-6.9

NOTES

1. Sign is Type II - See Note 5 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. M2-1 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB2-1 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG2-1 Background - Green
Message - White - Type H Reflective
MK2-1 Background - Green
Message - White - Type H Reflective
MM2-1 Background - White - Type H Reflective
Message - Green
MN2-1 Background - Brown
Message - White - Type H Reflective
MR2-1 Background - Brown
Message - Yellow - Type H Reflective



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



MB2-1
MG2-1
MN2-1

Metric equivalent
for this sign is:

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

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

STANDARD SIGN

M2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 3/16/10

PLATE NO. M2-1.10

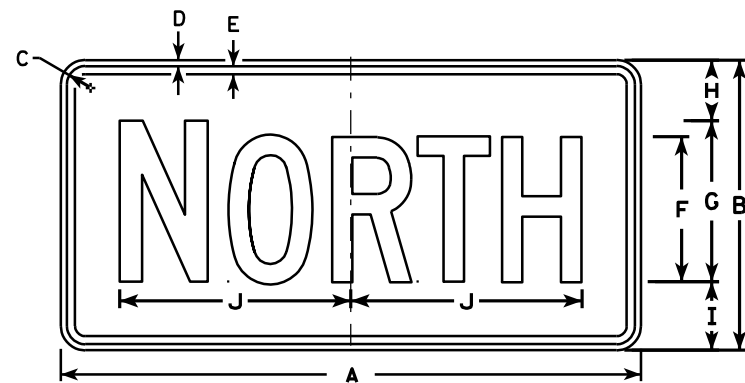
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 49

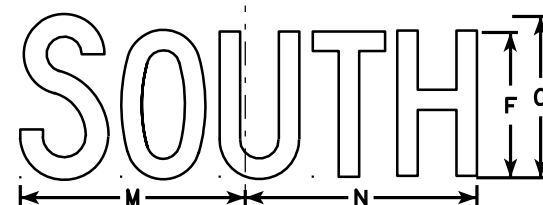
E



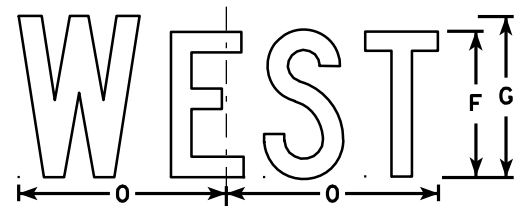
M3-1
MK3-1
M03-1



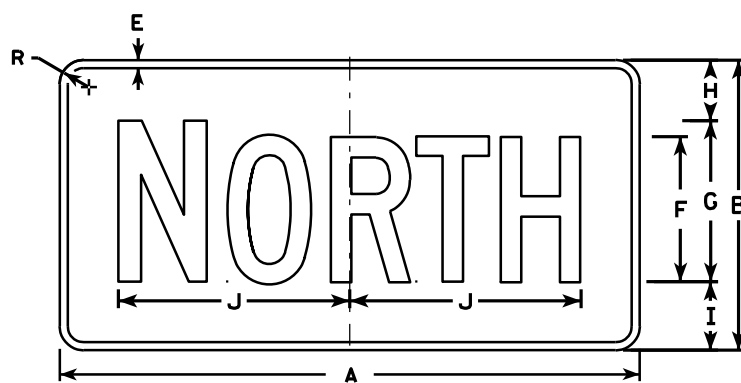
M3-2
MK3-2
M03-2



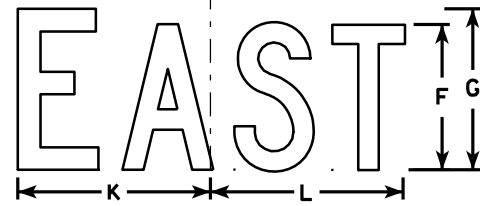
M3-3
MK3-3
M03-3



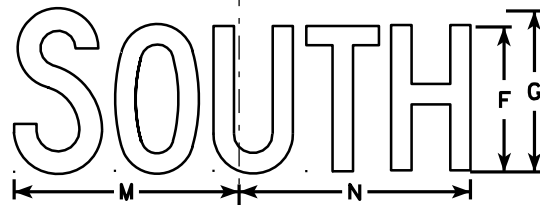
M3-4
MK3-4
M03-4



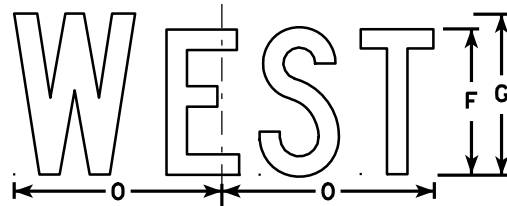
MB3-1
MG3-1
MM3-1
MN3-1



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



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



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

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective)
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White - Type H Reflective (Detour or temporary signs - Reflective)
MG3-1 thru MG3-4 Background - Green
Message - White - Type H Reflective
MK3-1 thru MK3-4 Background - Green
Message - White - Type H Reflective
MM3-1 thru MM3-4 Background - White - Type H Reflective
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White - Type H Reflective
M03-1 thru M03-4 Background - Orange - Reflective
Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

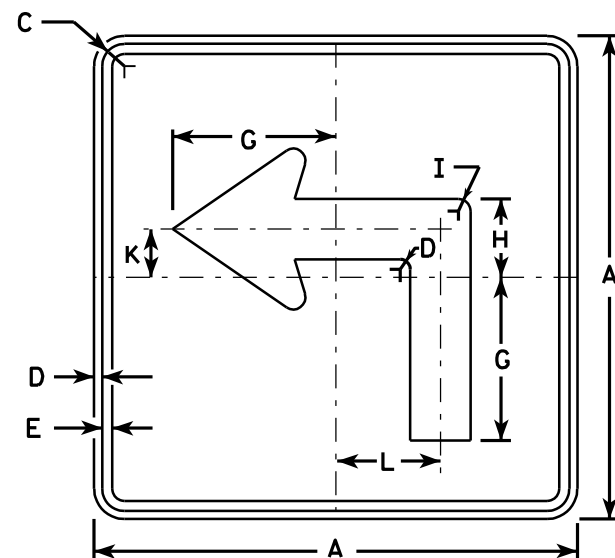
PROJECT NO: HWY: COUNTY: SHEET NO: 50 E

STANDARD SIGNS M3-1 thru M3-4 SERIES

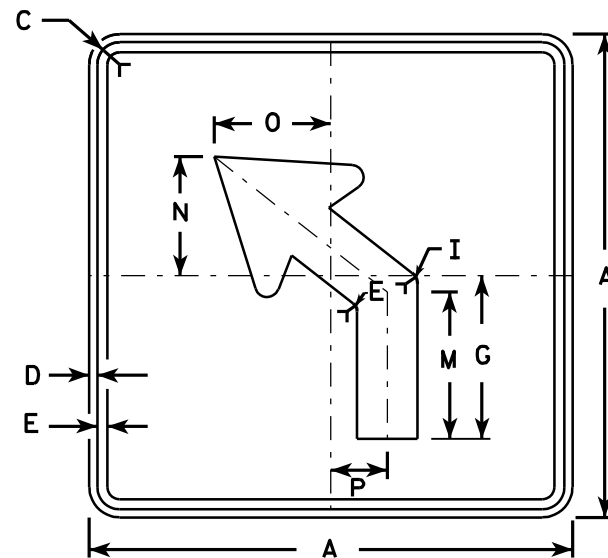
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

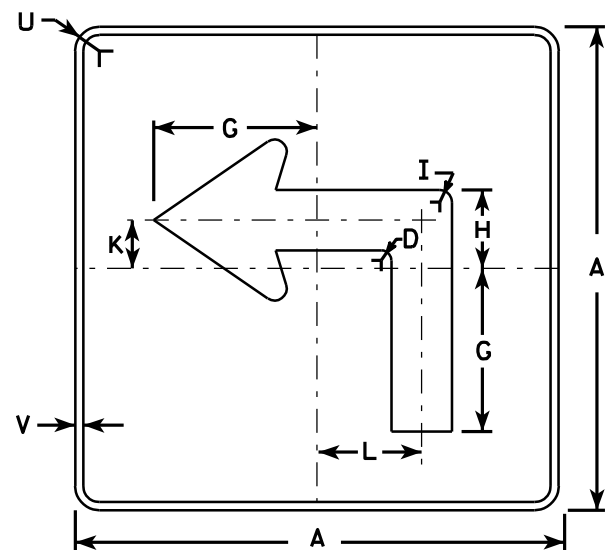
DATE 11/10/10 PLATE NO. M3-1.12



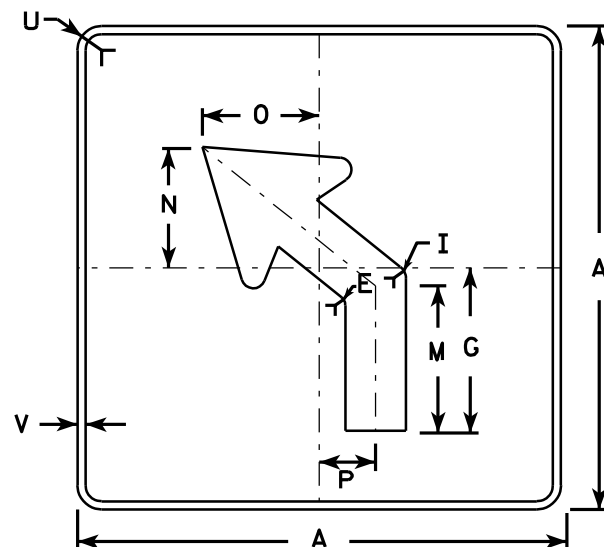
M5-1L
MK5-1L
MM5-1L
MO5-1L
MR5-1L



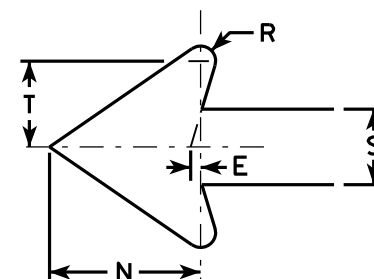
M5-2L
MK5-2L
MM5-2L
MO5-2L
MR5-2L



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



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



NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
Message - Black
MB5-1 and MB5-2 Background - Blue
Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
MG5-1 and MG5-2 Background - Green
Message - White - Type H Reflective
MK5-1 and MK5-2 Background - Green
Message - White Type H Reflective
MM5-1 and MM5-2 Background - White - Type H Reflective
Message - Green
MN5-1 and MN5-2 Background - Brown
Message - White - Type H Reflective
MO5-1 and MO5-2 Background - Orange - Reflective
Message - Black
MR5-1 and MR5-2 Background - Brown
Message - Yellow - Type H Reflective
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56

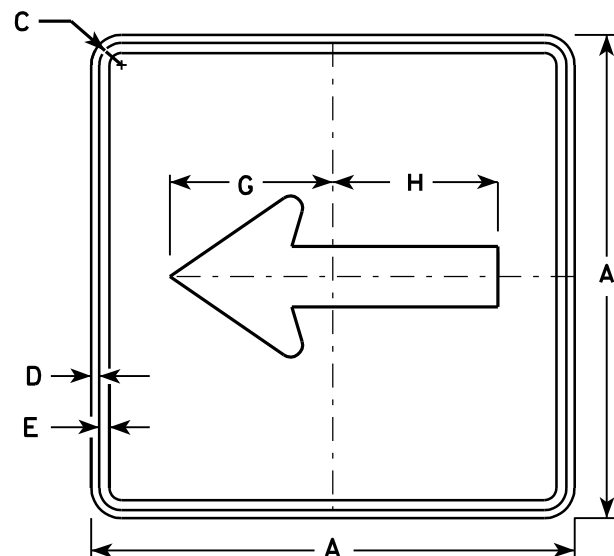
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 51	E
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STANDARD SIGN
M5-1 & M5-2

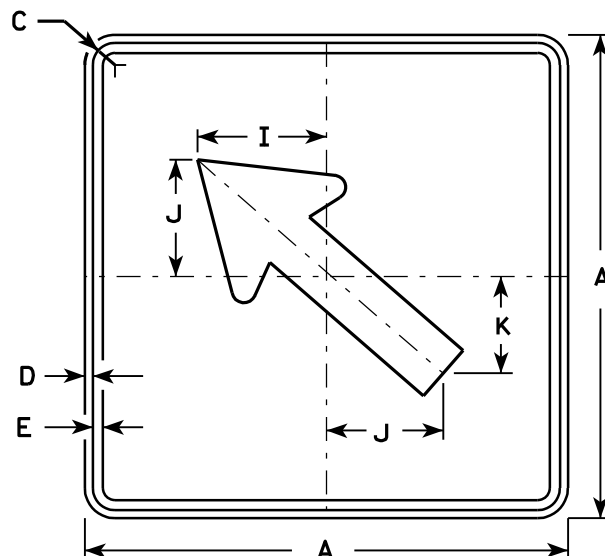
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

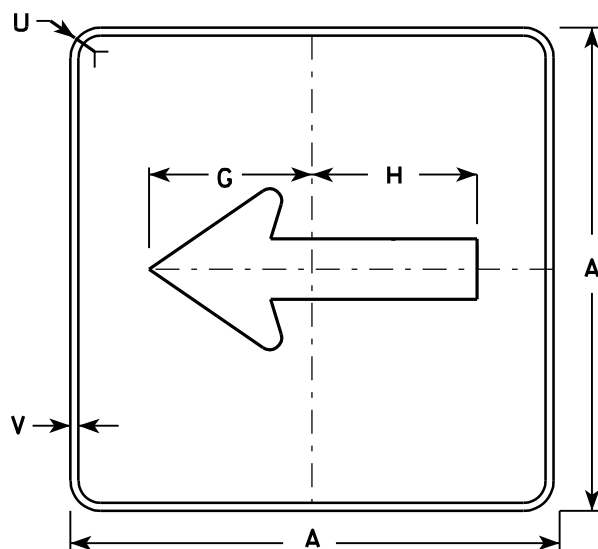
DATE 3/16/10 PLATE NO. M5-1.11



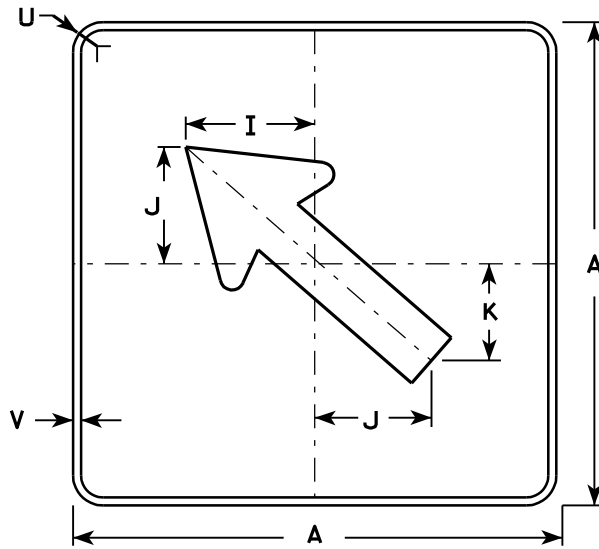
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



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



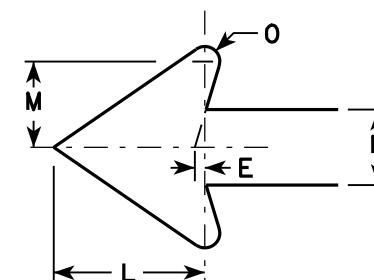
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-1 and M6-2 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG6-1 and MG6-2 Background - Green
Message - White - Type H Reflective
MK6-1 and MK6-2 Background - Green
Message - White - Type H Reflective
MM6-1 and MM6-2 Background - White - Type H Reflective
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White - Type H Reflective
MO6-1 and MO6-2 Background - Orange - Reflective
Message - Black
MR6-1 and MR6-2 Background - Brown
Message - Yellow - Type H Reflective

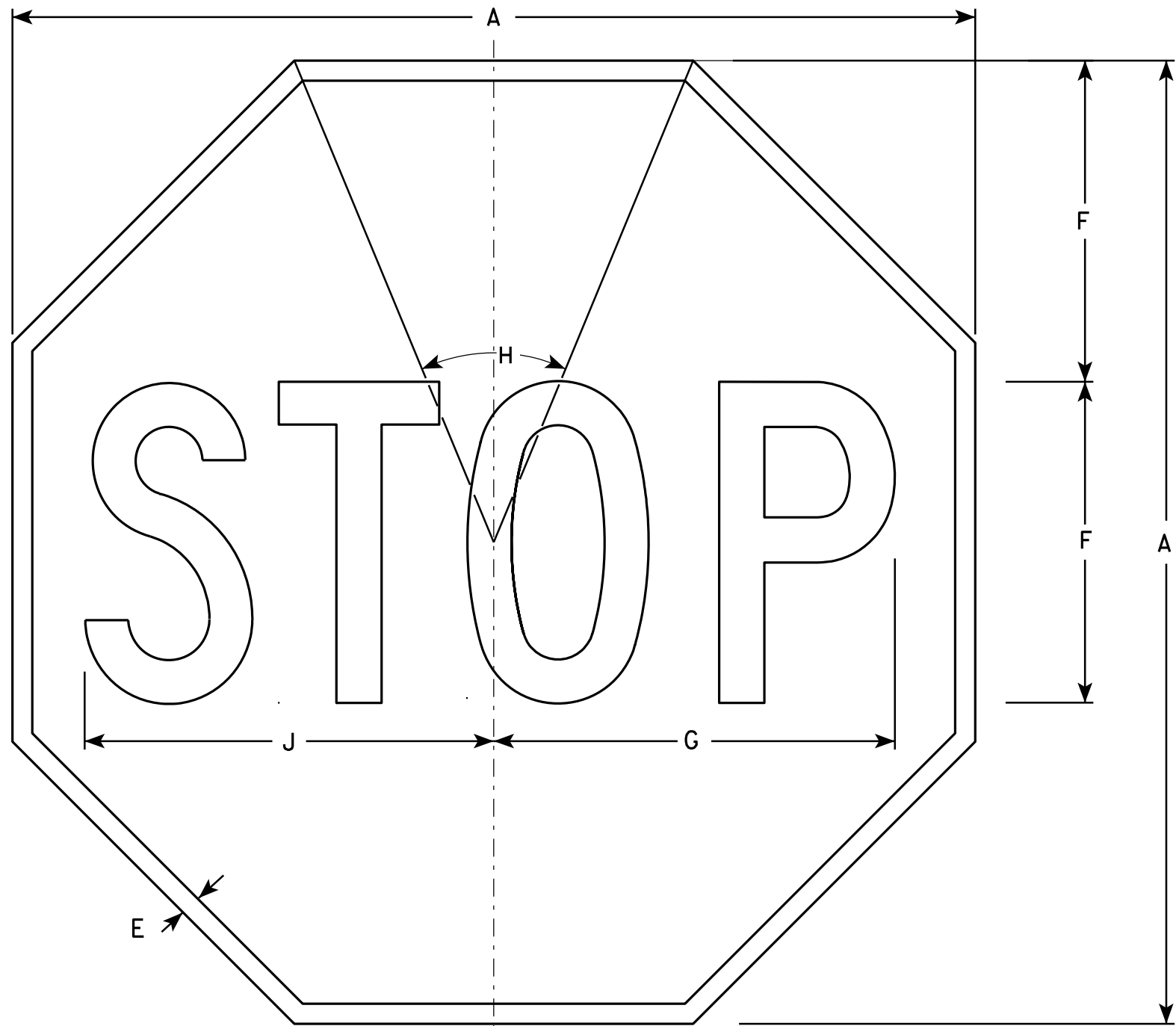


Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

PROJECT NO: HWY: COUNTY: SHEET NO: 52 E



NOTES

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

R1-1

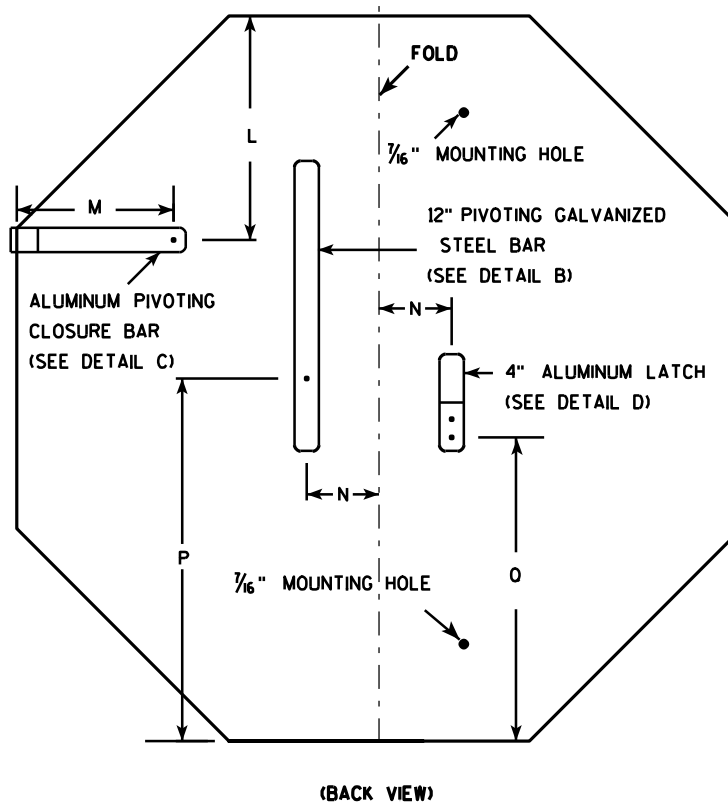
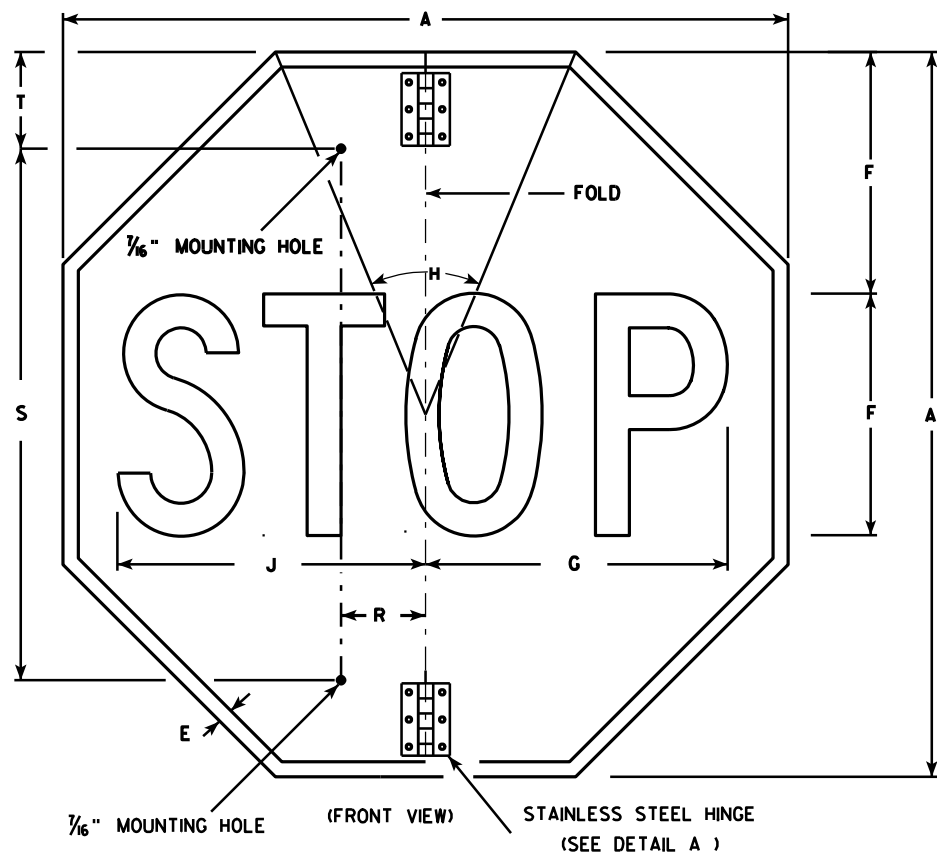
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20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

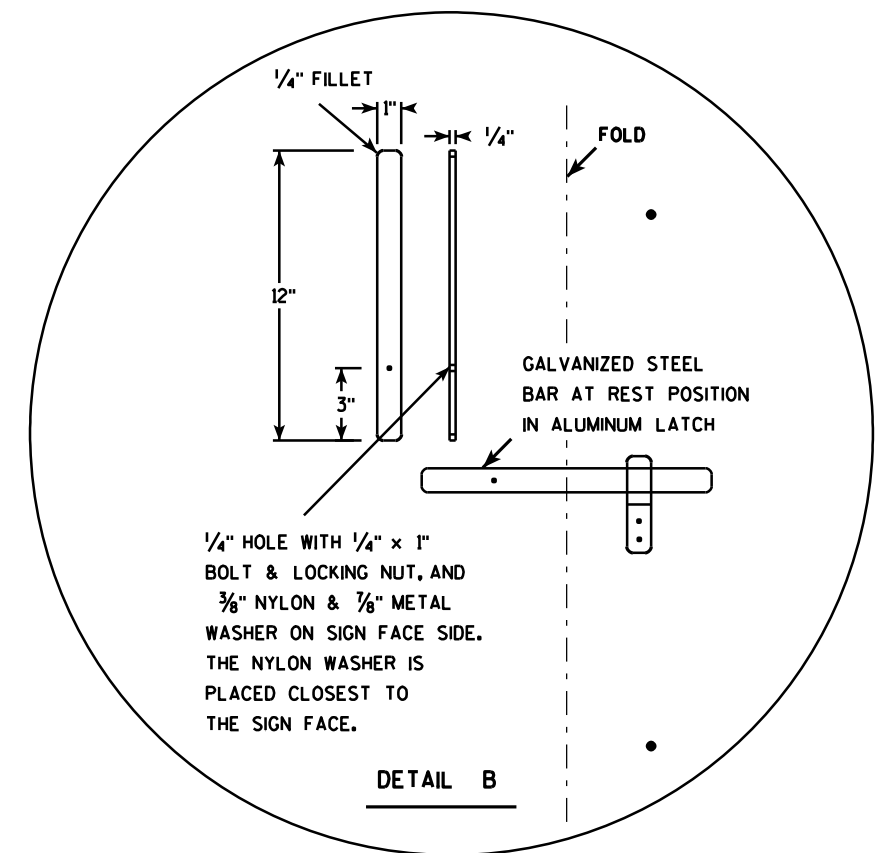
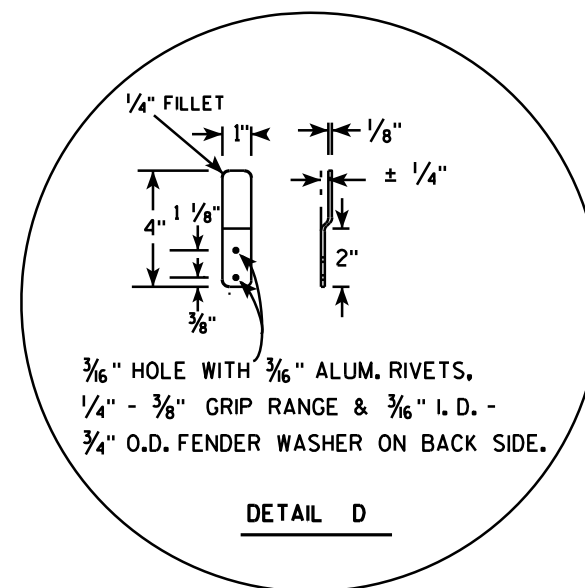
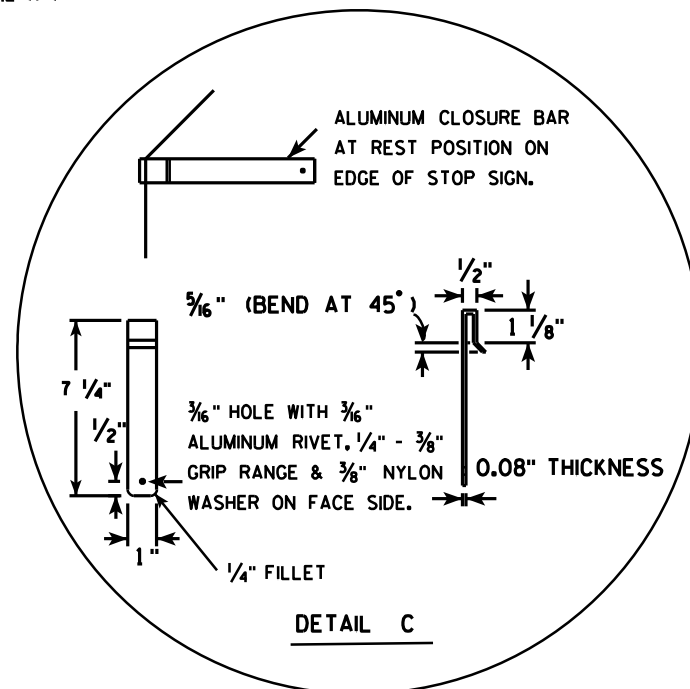
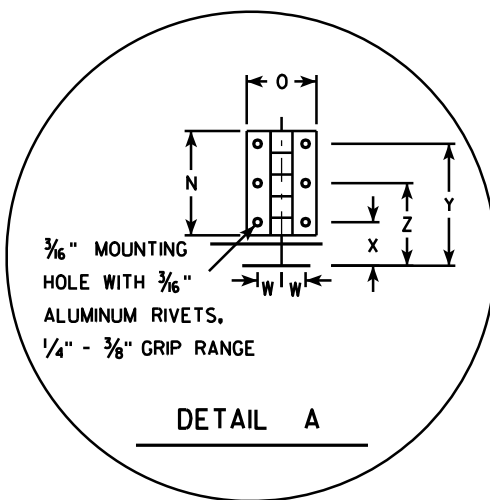
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



NOTES

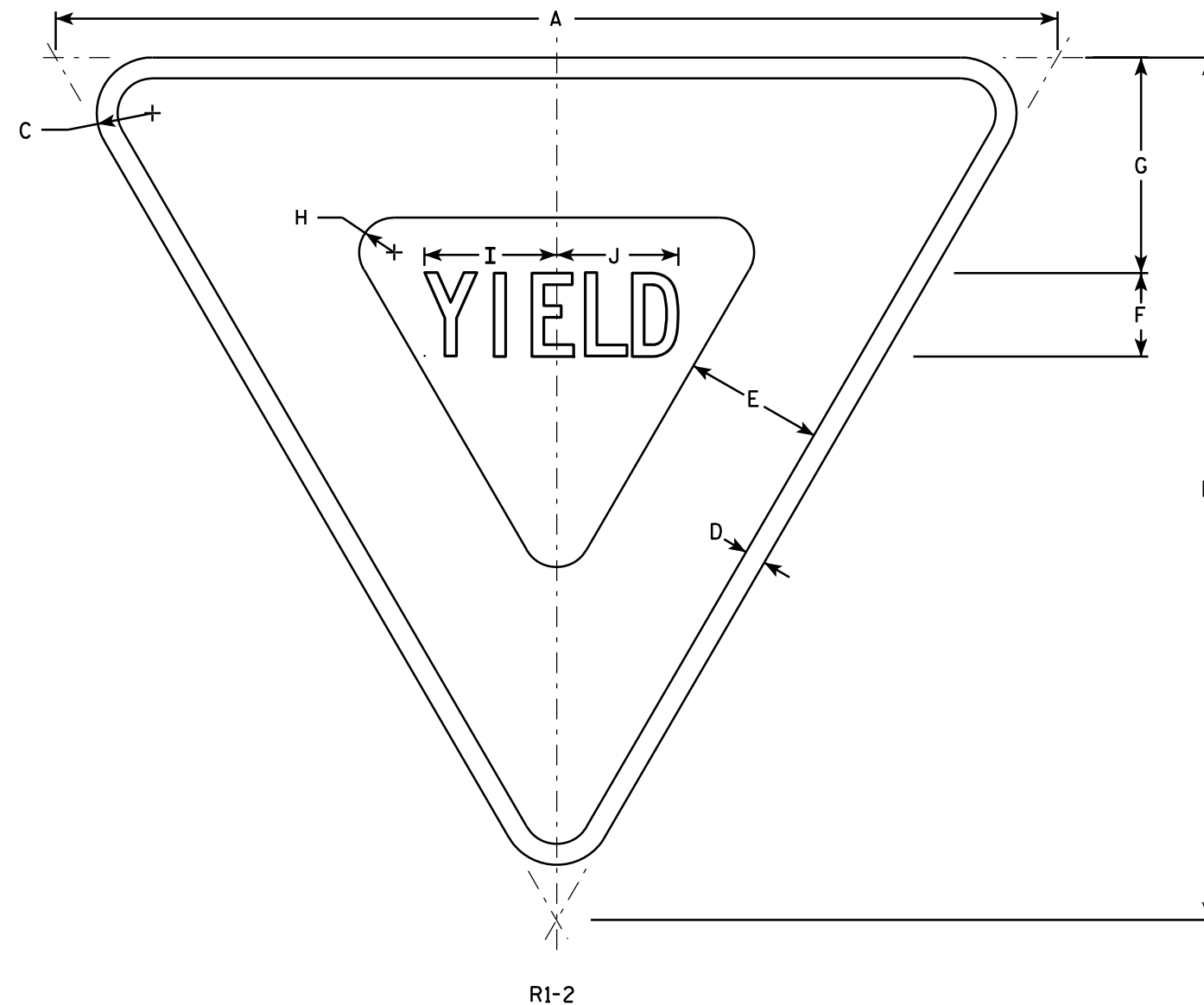
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN R1-1F	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/03/10	PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 54	E
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NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
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

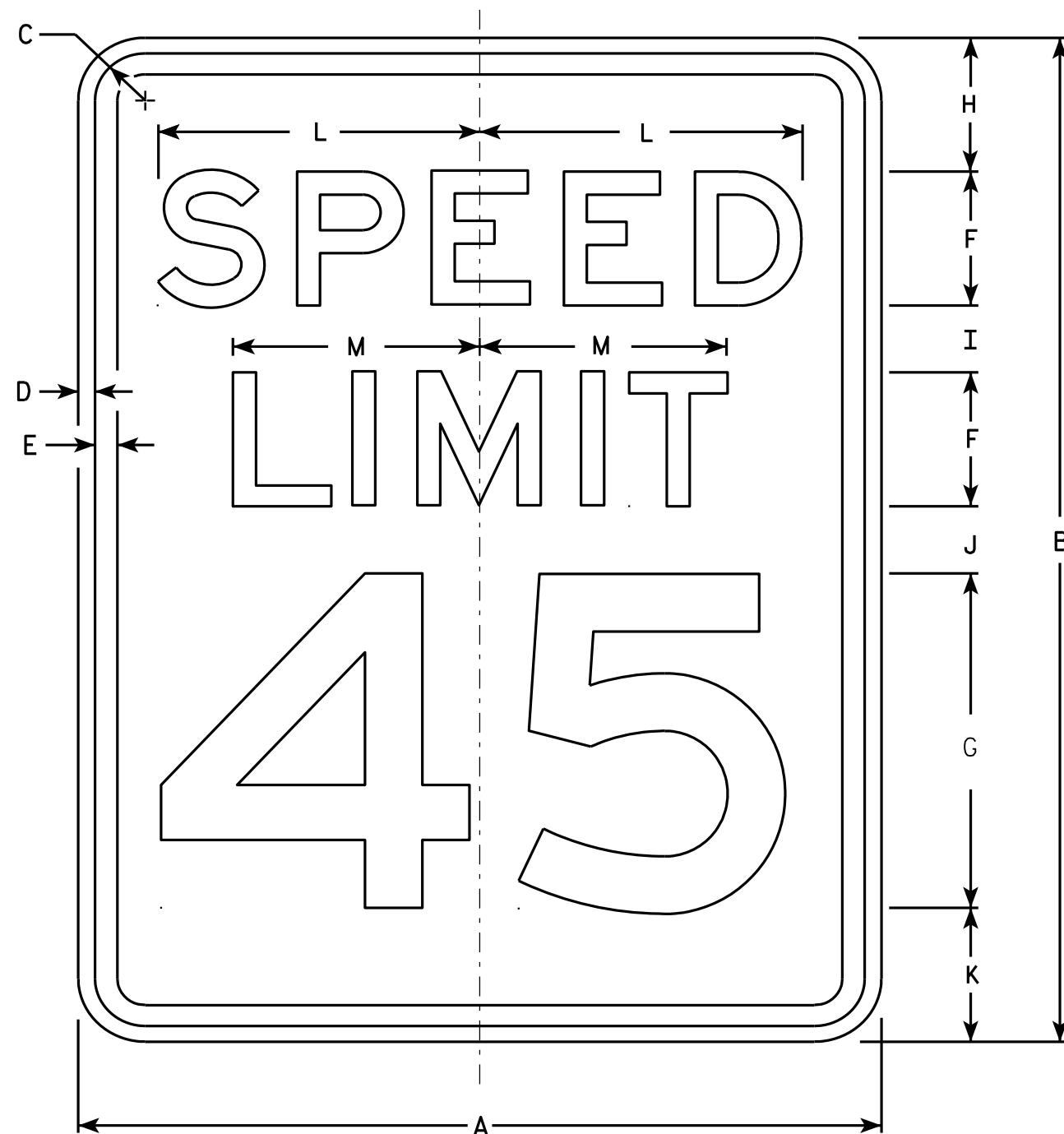
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: HWY: COUNTY: SHEET NO: 55 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

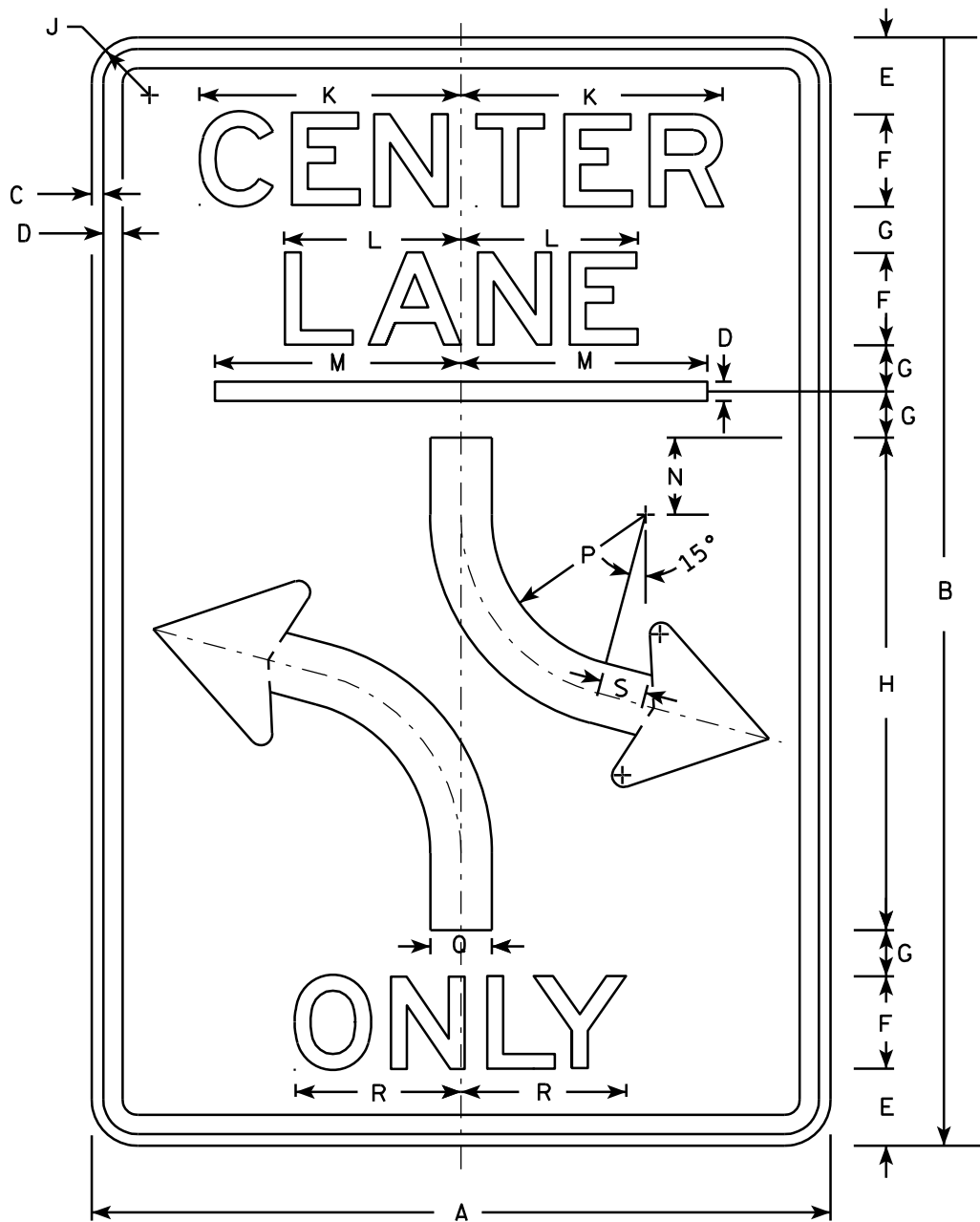
STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

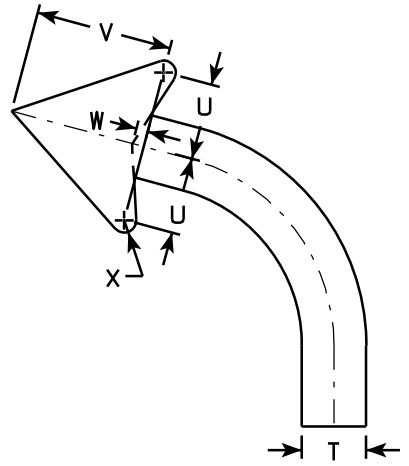
PROJECT NO: HWY: COUNTY: SHEET NO: 56 E



R3-9B

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	$\frac{3}{8}$	$\frac{1}{2}$	2 $\frac{1}{2}$	3	1 $\frac{1}{2}$	16		1 $\frac{1}{2}$	8 $\frac{1}{2}$	5 $\frac{3}{4}$	8	2 $\frac{1}{2}$		6	2	5 $\frac{1}{8}$	1 $\frac{1}{2}$		2 $\frac{3}{8}$	4 $\frac{3}{8}$	$\frac{3}{8}$				6.0
2M	24	36	$\frac{3}{8}$	$\frac{1}{2}$	2 $\frac{1}{2}$	3	1 $\frac{1}{2}$	16		1 $\frac{1}{2}$	8 $\frac{1}{2}$	5 $\frac{3}{4}$	8	2 $\frac{1}{2}$		6	2	5 $\frac{1}{8}$	1 $\frac{1}{2}$		2 $\frac{3}{8}$	4 $\frac{3}{8}$	$\frac{3}{8}$				6.0
3	36	48	$\frac{5}{8}$	$\frac{7}{8}$	3 $\frac{1}{2}$	5	1 $\frac{1}{2}$	20		2 $\frac{1}{4}$	14 $\frac{1}{8}$	9 $\frac{1}{2}$	12	3		4	3	9 $\frac{7}{8}$	2		3 $\frac{1}{2}$	6 $\frac{1}{8}$	$\frac{1}{2}$				12.0
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 57

E

STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

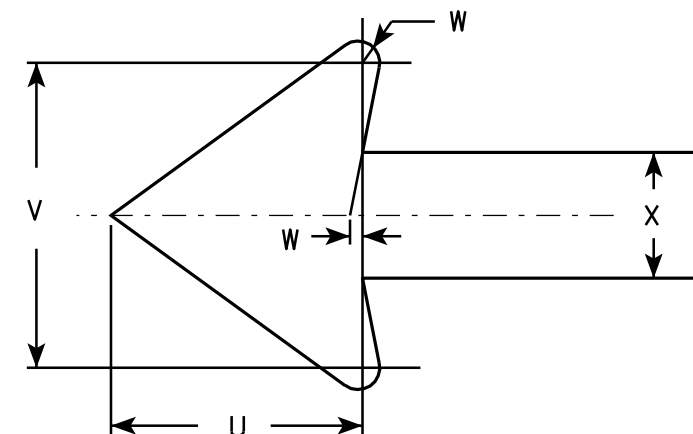
DATE 3/24/2011 PLATE NO. R3-9B.5



R7-1

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 - Red
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. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
R7-1L (left arrow)
R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN

R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

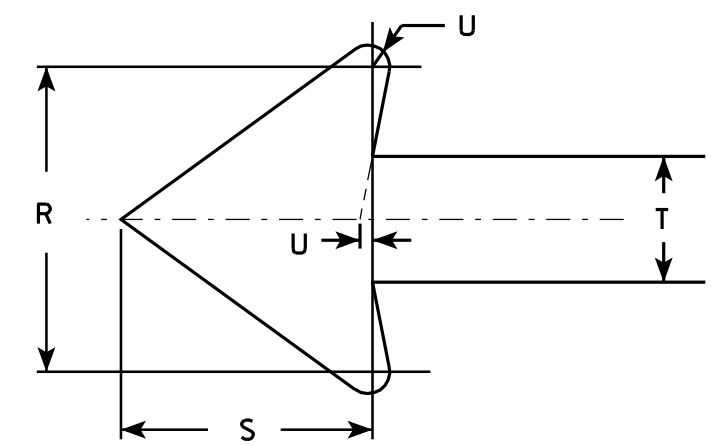
PROJECT NO: HWY: COUNTY: SHEET NO: 58 E



R7-2 *- See Note 5

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 - Red
3. Message Series - See Note 7
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 as required & adjust spacing to achieve proper balance.
6. R7-2D (double arrow)
R7-2L (left arrow)
R7-2R (right arrow)
7. Lines 1, 3 and 4 are series C, line 2 is series B.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8						1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4						3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
4																											
5																											

STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/31/2011 PLATE NO. R7-2.9

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 59

E

7

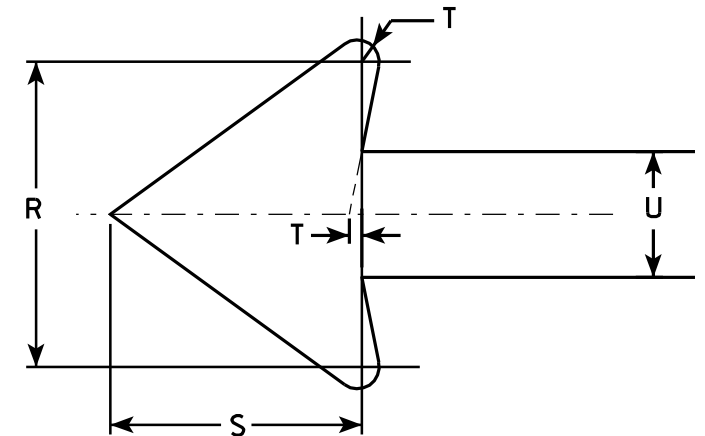


R7-5

* - See Note 5

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 - Green
3. Message Series - See Note 7
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 as required & adjust spacing to achieve proper balance.
6. R7-5D (double arrow)
R7-5L (left arrow)
R7-5R (right arrow)
7. Lines 1, 2 & 3 are series C Copy
Line 4 Series B Copy.



7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	2	2	2 1/4	1 1/4	4	2 1/2	2 1/8	2	2 7/8	4 5/8	4 1/2	3 7/8	1 3/4	1 1/2	1/8	3/4						1.5
2S	18	24	1 1/8	3/8	1/2	3	3	2 5/8	1 1/4	5 5/8	3 1/4	3 1/8	3 1/8	4 1/4	6 7/8	6 3/4	5 7/8	2 5/8	2 1/4	1/4	1 1/8						3.0
2M	24	30	1 1/8	3/8	1/2	4	3	3	2	6	3 1/2	4 1/4	4 1/8	5 3/4	9 1/8	9 1/8	7 3/4	3 1/2	3	1/4	1 1/2						5.0
3	24	30	1 1/8	3/8	1/2	4	3	3	2	6	3 1/2	4 1/4	4 1/8	5 3/4	9 1/8	9 1/8	7 3/4	3 1/2	3	1/4	1 1/2						5.0
4																											
5																											

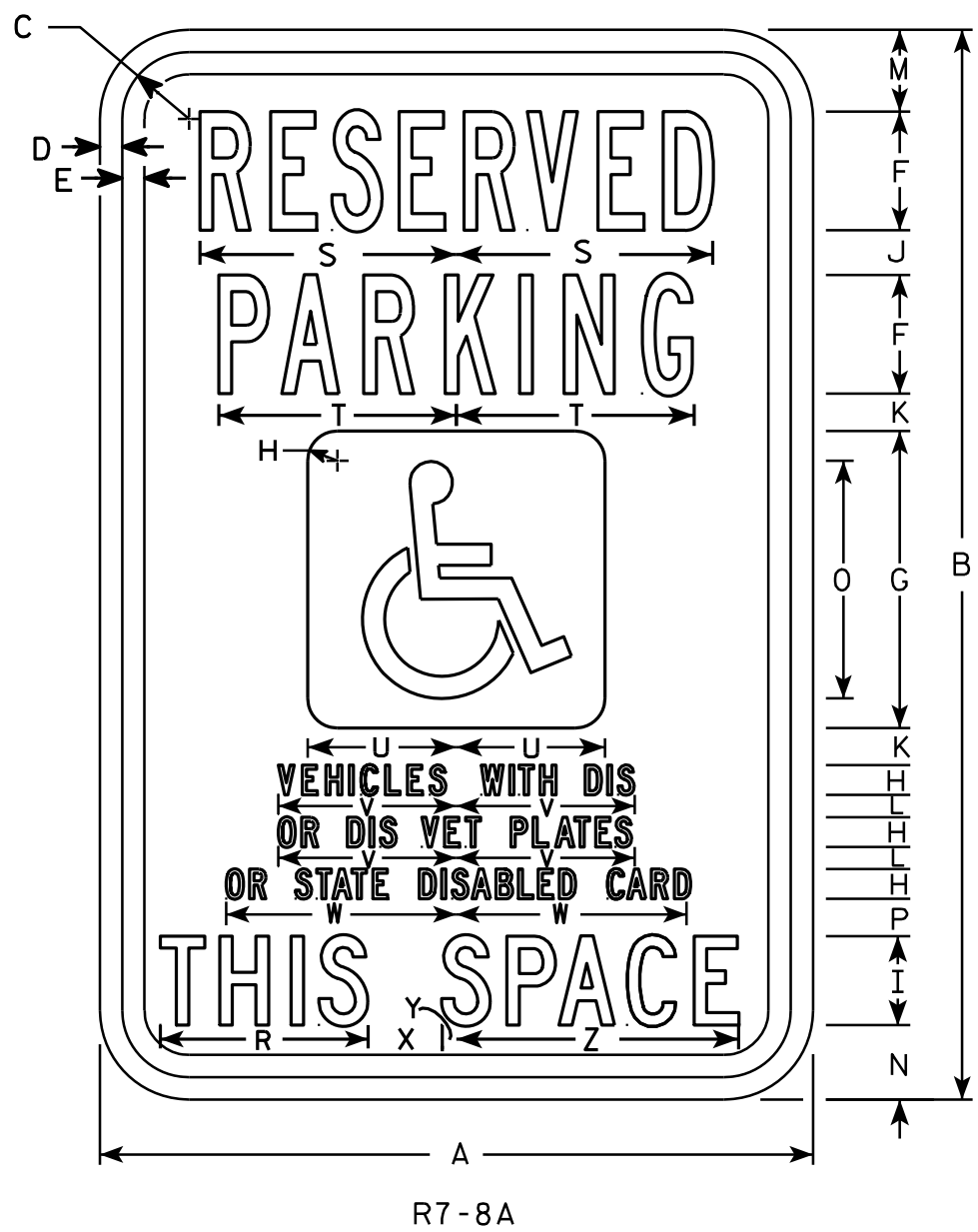
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 60	E
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STANDARD SIGN
R7-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 03/31/2011 PLATE NO. R7-5.8



NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
 - Background - Sign is white Type H Reflective; paraplegic background is blue.
 - Message - Legend and border are green; paraplegic symbol is white
- 3. Message Series - Lines 1 & 2 are Series B
Lines 3, 4, 5 & 6 are 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	Area sq. ft.
1																											
2S	12	18	1 1/8	3/8	3/8	2	5	1/2	1 1/2	3/4	5/8	3/8	1 3/8	1 1/4	4	5/8		3 1/2	4 3/8	4	2 1/2	3	3 7/8	1 1/4	1/4	4 3/4	1.5
2M	18	24	1 1/8	3/8	1/2	3	6	3/4	2	7/8	5/8	1/2	1 7/8	2	5	3/4		4 5/8	6 1/2	5 3/8	3	4 1/2	5 7/8	1 1/2	1/4	6 3/8	3.0
3	18	24	1 1/8	3/8	1/2	3	6	3/4	2	7/8	5/8	1/2	1 7/8	2	5	3/4		4 5/8	6 1/2	5 3/8	3	4 1/2	5 7/8	1 1/2	1/4	6 3/8	3.0
4																											
5																											

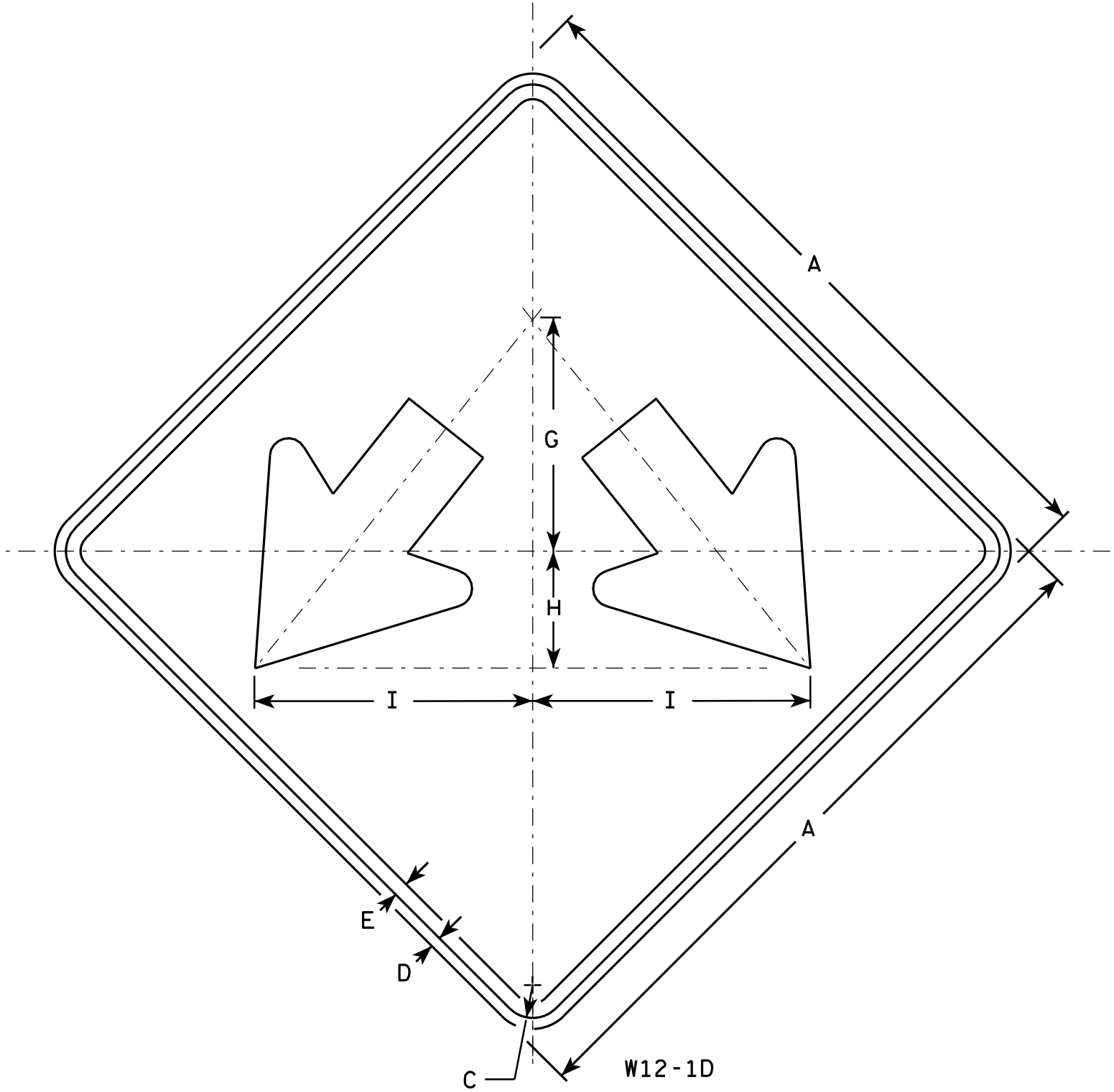
STANDARD SIGN
R7-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

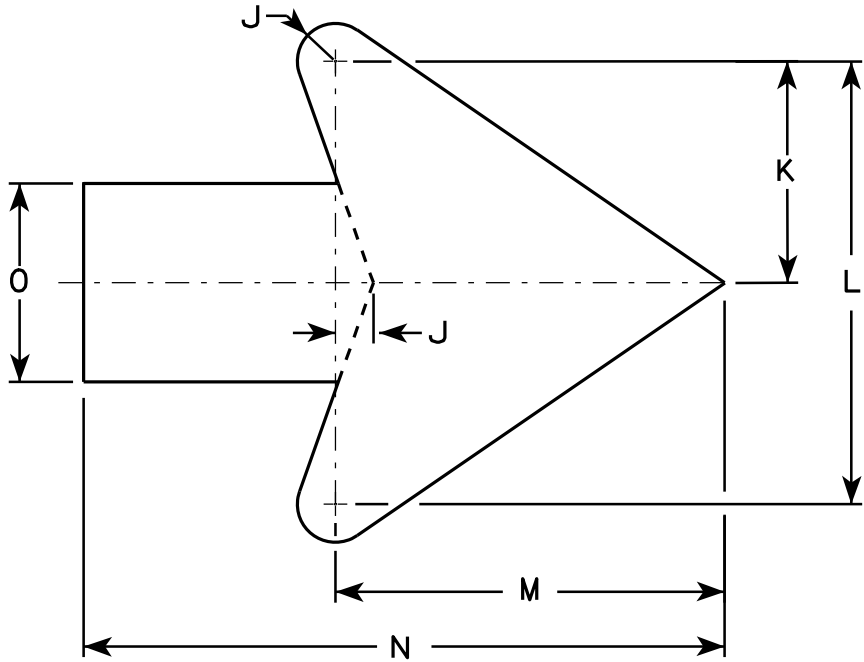
DATE 4/25/2011 PLATE NO. R7-8A.6

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



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

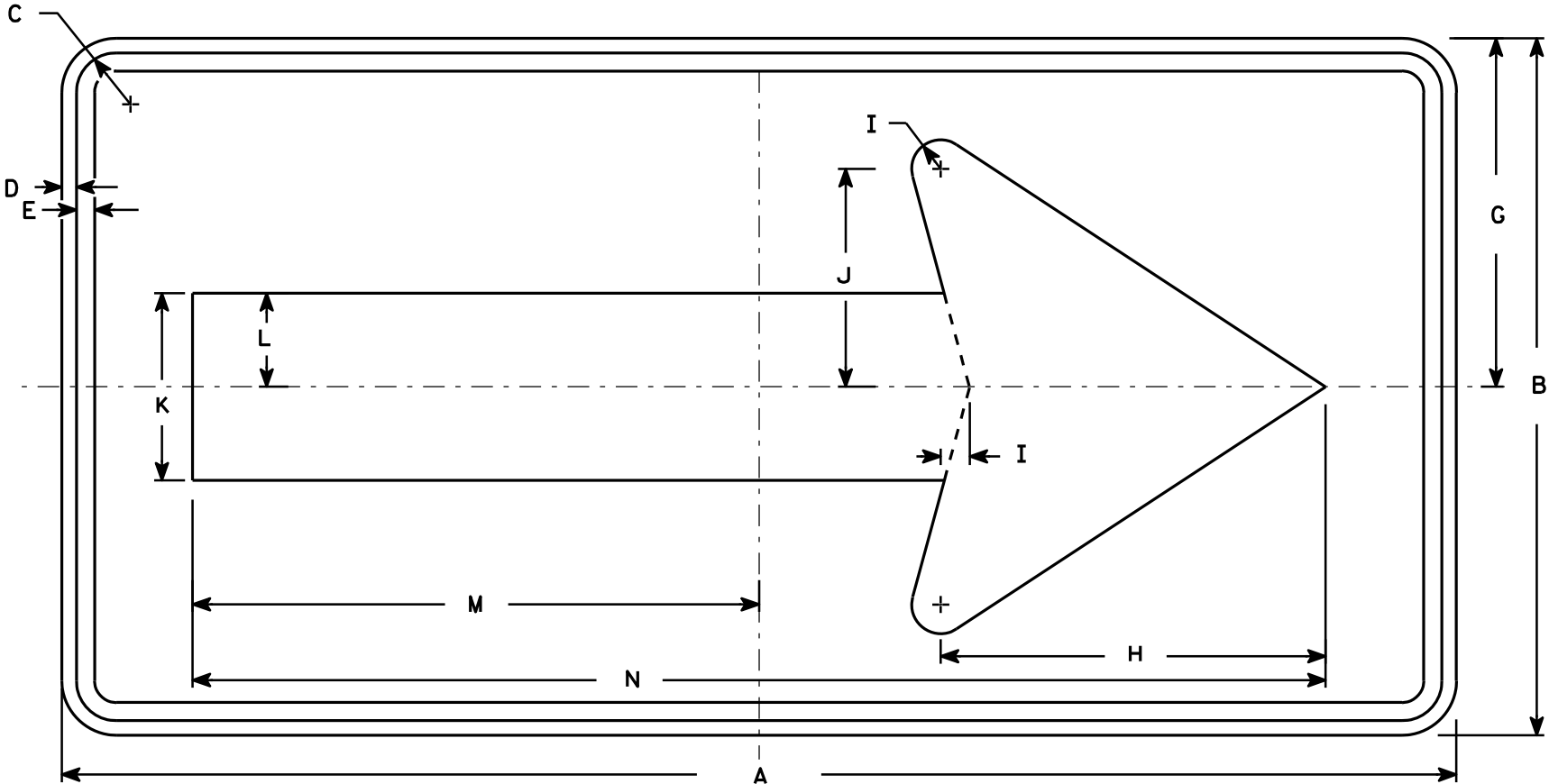
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/15/11 PLATE NO. W12-1D.14

7

NOTES

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



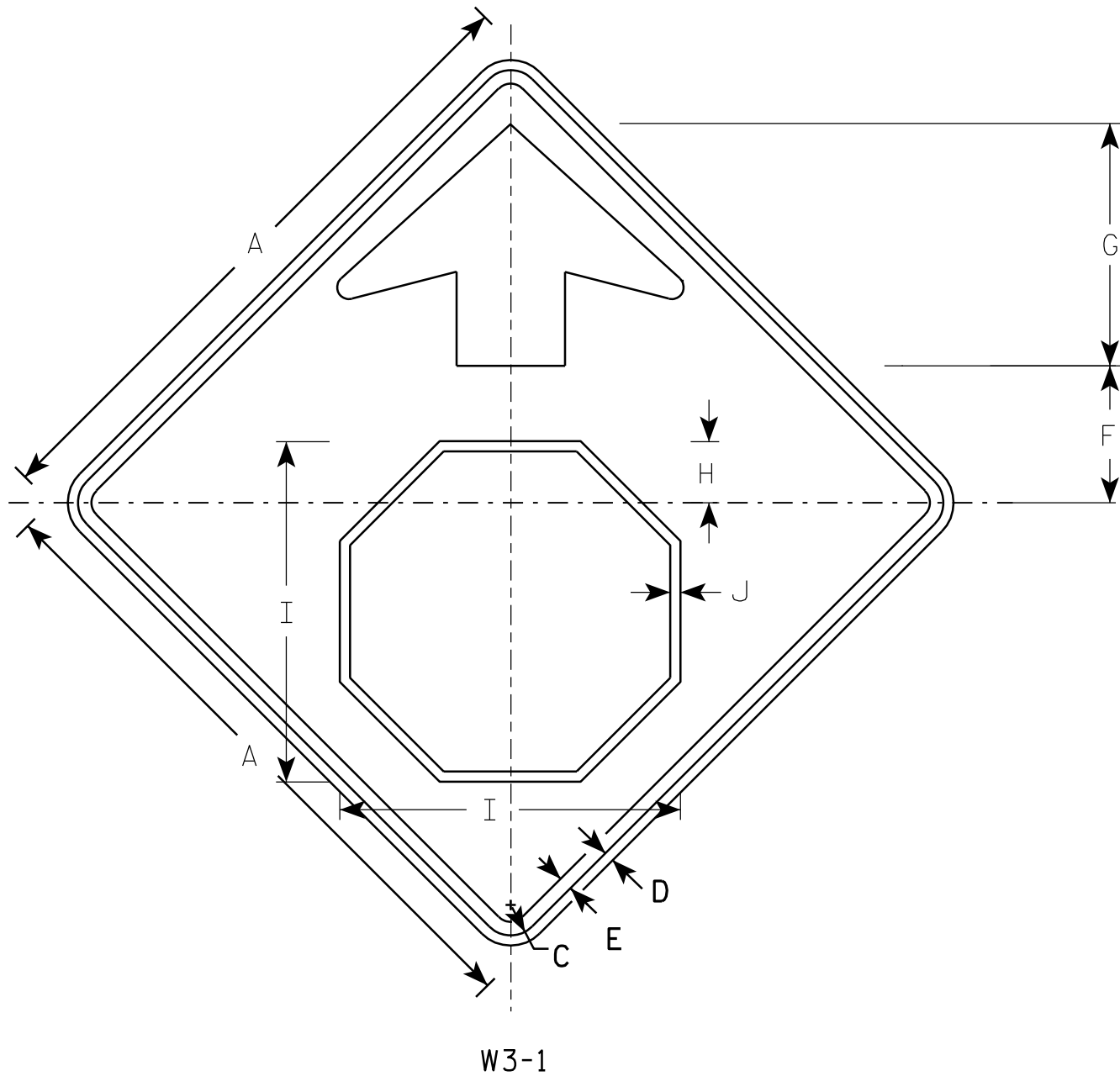
W1-6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN
W1-6

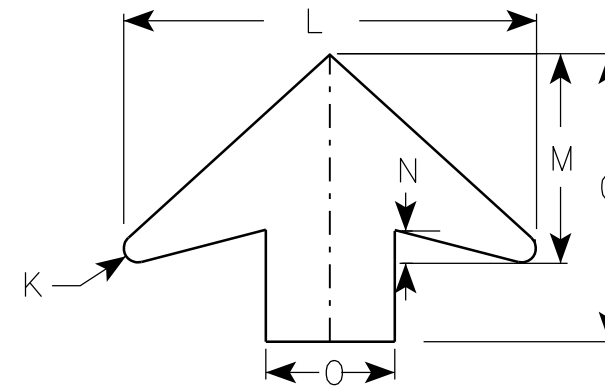
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8



NOTES

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



ARROW DETAIL

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

PROJECT NO:

STANDARD SIGN
W3-1

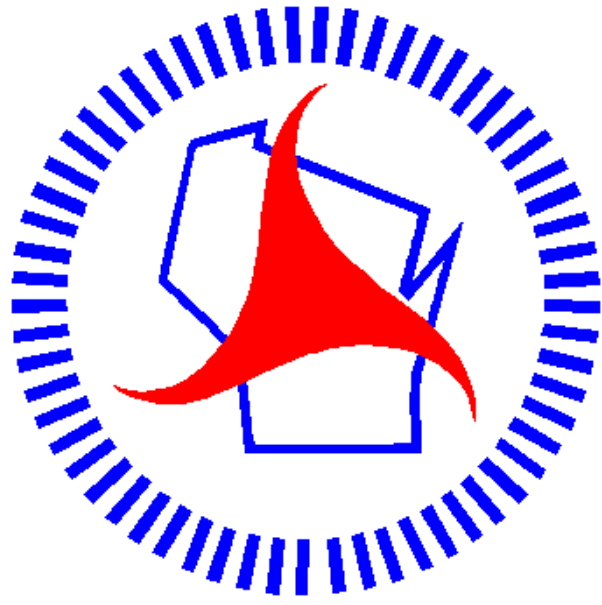
WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO: 64

E

Notes



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