

RICHLAND

F

GENERAL NOTES

-LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

UTILITY CONTACTS

Jason Heming
Alliant Energy - Electricity
4902 N Biltmore Lane
Suite 1000
Madison, WI 53718
(608) 295-9730
jasonheming@alliantenergy.com

DNR CONTACT

ANDY BARTA
ENVIRONMENTAL ANALYSIS AND SUSTAINABILITY
DNR SOUTH CENTRAL REGION HQ
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
Andrew.Barta@wisconsin.gov

DESIGN CONTACTS

DAN KLEINERTZ
PROJECT MANAGER
WISDOT SW REGION
PROJECT DEVELOPMENT
3550 MORMON COULEE RD
LA CROSSE, WI 54601
(608) 789-5709
Daniel.Kleinertz@dot.wi.gov

Andrew Phillips
PROJECT DESIGNER
WISDOT SW REGION
PROJECT DEVELOPMENT
3550 MORMON COULEE RD
LA CROSSE, WI 54601
(608) 386-0201
Andrew.Phillips@dot.wi.gov

Kelly Young
STRUCTURAL DESIGNER
WISDOT SW REGION
Bureau of Structures
4802 Sheboygan Ave
Madison, WI 53705
(608) 267-7943
Kelly.Young@dot.wi.gov

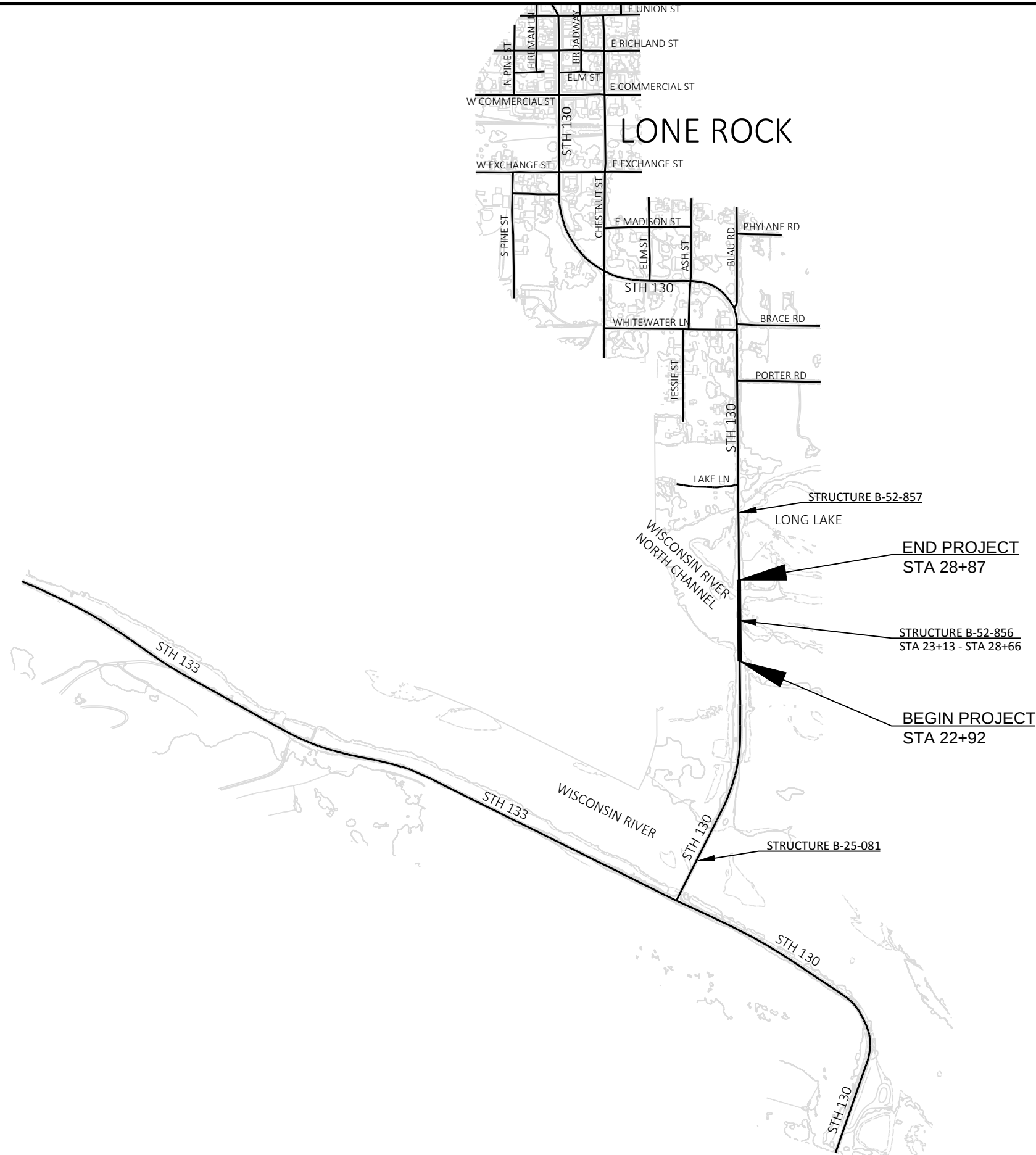
STANDARD ABBREVIATIONS

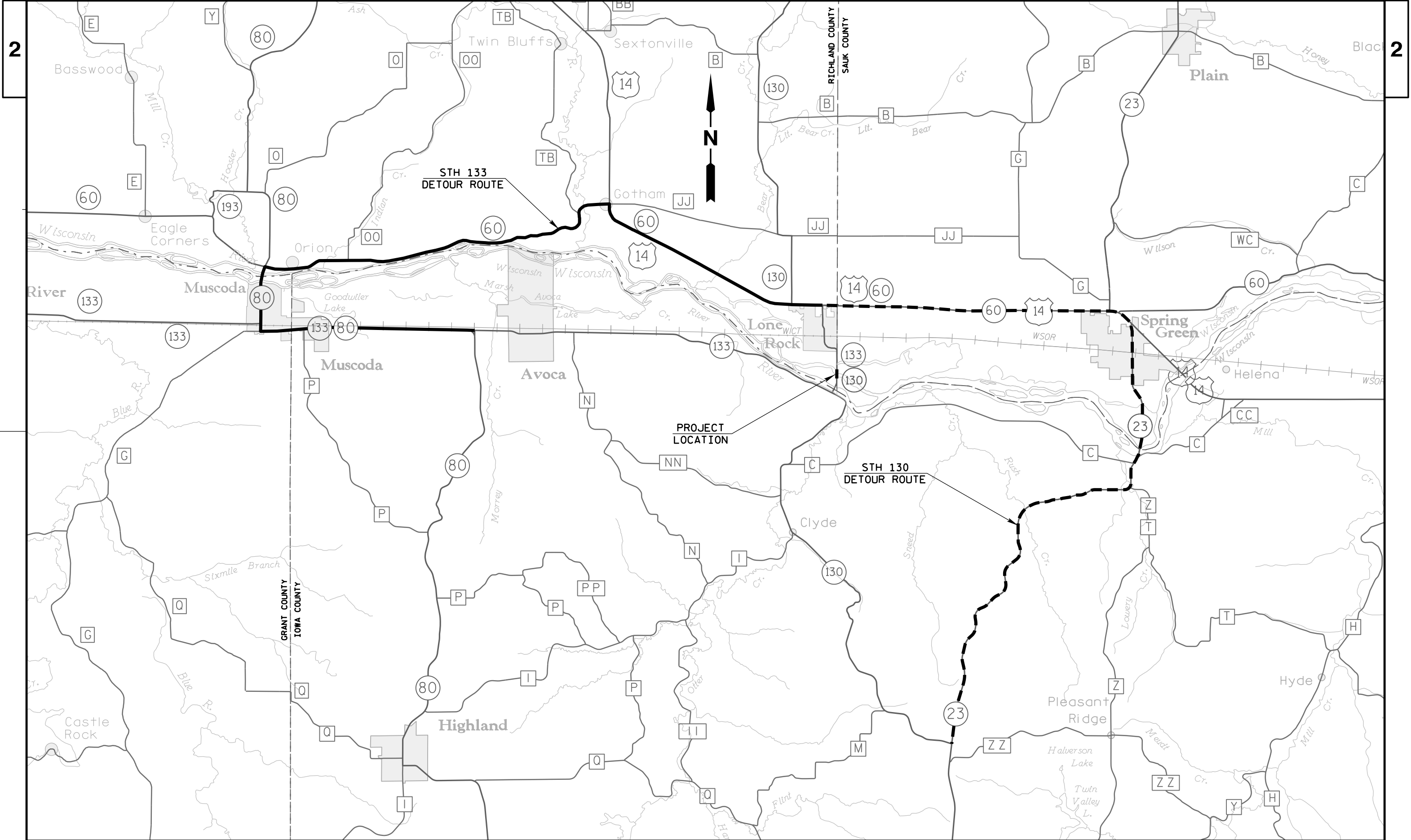
AC.	ACRE	MAX.	MAXIMUM
AGG.	AGGREGATE	MGAL	1000 GALLONS
AH	AHEAD	MIN.	MINIMUM
<	ANGLE	N.C.	NORMAL CROWN OR NO CHANGE
AE, AEW	APRON ENDWALL	N	NORTH
ASPH.	ASPHALTIC	NO.	NUMBER
A.D.T.	AVERAGE DAILY TRAFFIC	PAV'T	PAVEMENT
B.F.	BACK FACE	P.L.E.	PERMANENT LIMITED EASEMENT
BK.	BACK	P.C.	POINT OF CURVATURE
BEG.	BEGIN	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.T.	POINT OF TANGENCY
C/L	CENTER LINE	V.P.C.	VERTICAL POINT OF CURVATURE
D	CENTRAL ANGLE OR DELTA	V.P.I.	VERTICAL POINT OF INTERSECTION
C.M.C.P.	CORRUGATED METAL CULVERT PIPE	V.P.T.	VERTICAL POINT OF TANGENCY
C.M.P.	CORRUGATED METAL PIPE	PCC	PORTLAND CEMENT CONCRETE
CO.	COUNTY	P.E.	PRIVATE ENTRANCE
CTH	COUNTY TRUNK HIGHWAY	P.L.	PROPERTY LINE
CR.	CREEK	R	RADIUS OR RANGE
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE	R/L	REFERENCE LINE
C.Y.	CUBIC YARD	R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
C.P.	CULVERT PIPE	RT	RIGHT
C. & G.	CURB AND GUTTER	REQ'D	REQUIRED
D	DEGREE OF CURVE	R.H.F.	RIGHT HAND FORWARD
D.H.V.	DESIGN HOUR VOLUME	R/W	RIGHT OF WAY
DIA.	DIAMETER	R.	RIVER
DISCH.	DISCHARGE	RD.	ROAD
EA	EACH	SHLD.	SHOULDER(S)
E	EAST	SHR.	SHRINKAGE
ELEC.	ELECTRIC(AL), ELEC. CABLE	S	SOUTH
EL., ELEV.	ELEVATION	S.F.	SQUARE FOOT (FEET)
EXC.	EXCAVATION	SDD	STANDARD DETAIL DRAWING(S)
F.F.	FACE TO FACE	STH	STATE TRUNK HIGHWAY
FERT.	FERTILIZER	STA.	STATION
F.E.	FIELD ENTRANCE	S.E.	SUPERELEVATION
F/L, F.L.	FLOW LINE	S/L	SURVEY LINE
CWT.	HUNDRED WEIGHT	T	TANGENT
INL	INLET	TEL.	TELEPHONE
INTER.	INTERSECTION	TEMP.	TEMPORARY
JT.	JOINT	T.L.E.	TEMPORARY LIMITED EASEMENT
LT	LEFT	T.O.C.	TOP OF CURB
L.H.F.	LEFT HAND FORWARD	T.	(TRUCKS) PERCENT OF
L.	LENGTH OF CURVE	TYP.	TYPICAL
L.F.	LINEAR FOOT(FEET)	UNCL.	UNCLASSIFIED
LC.	LONG CHORD	U.G.	UNDERGROUND (CABLE)
LS	LUMP SUM	V.C.	VERTICAL CURVE
M.P.	MARKER POST	W	WEST



Dial 811 or (800) 242-8511

www.DiggersHotline.com





PROJECT NO: 5770-01-60

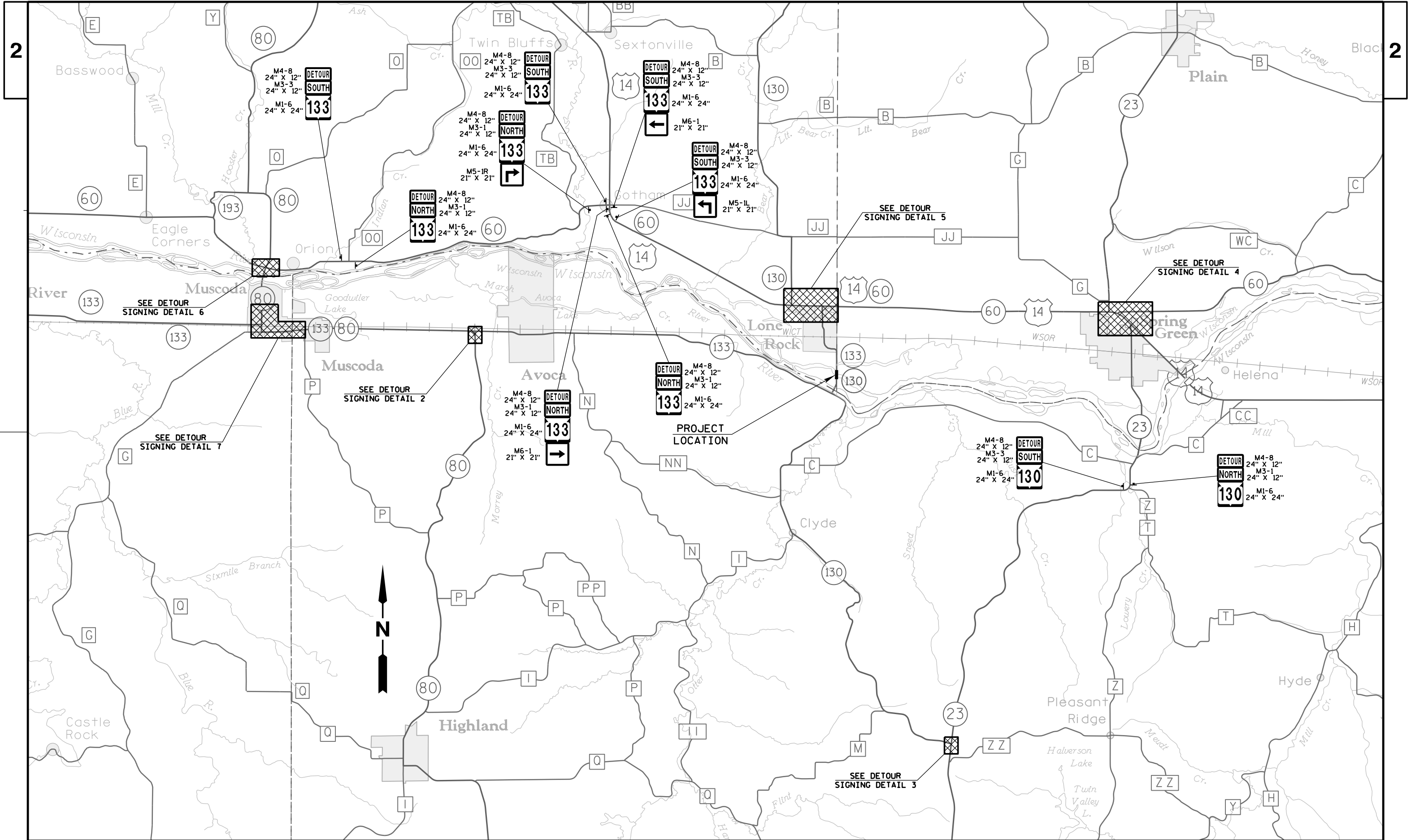
HWY: STH 130

COUNTY: RICHLAND

DETOUR SIGNING DETAIL 1

SHEET

E



PROJECT NO: 5770-01-60

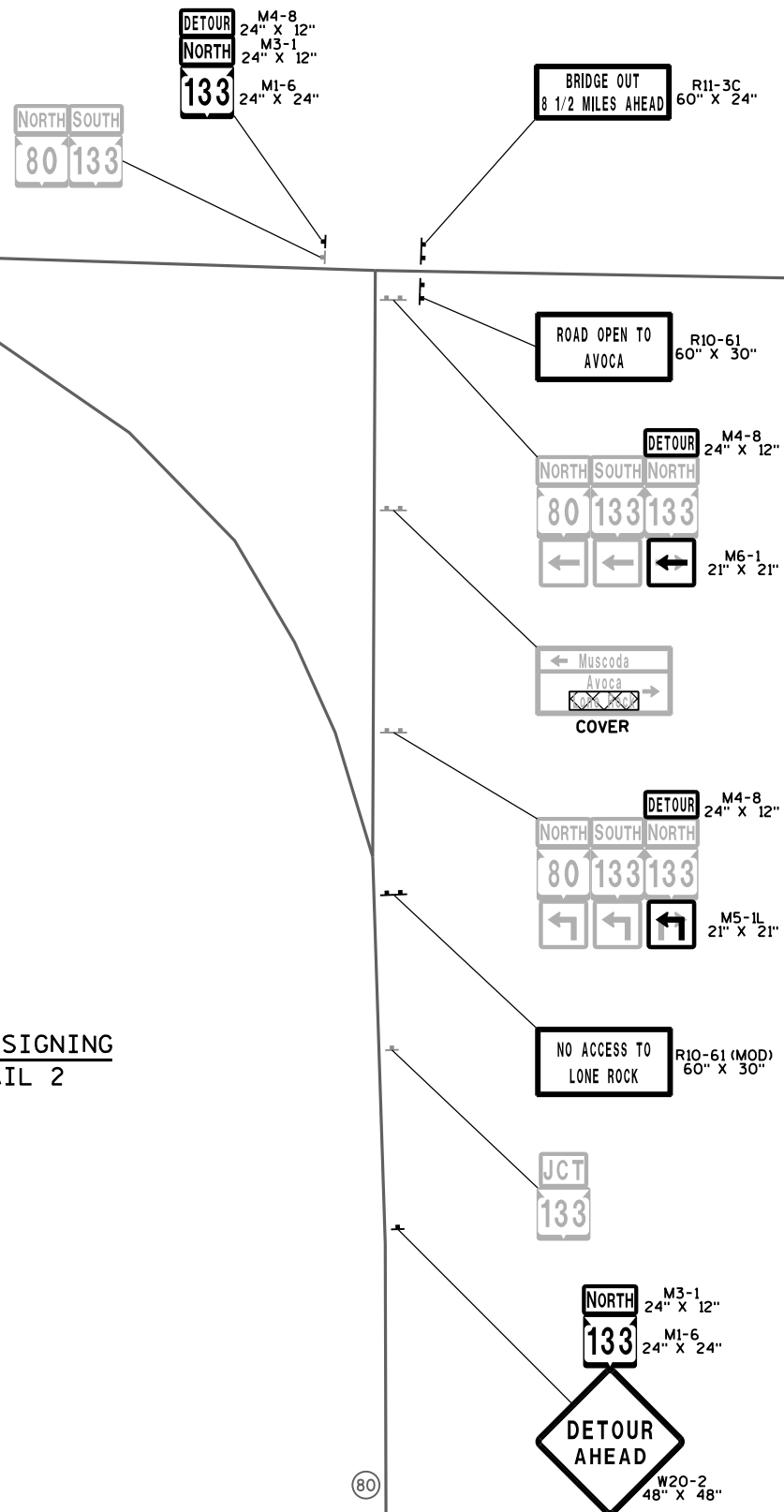
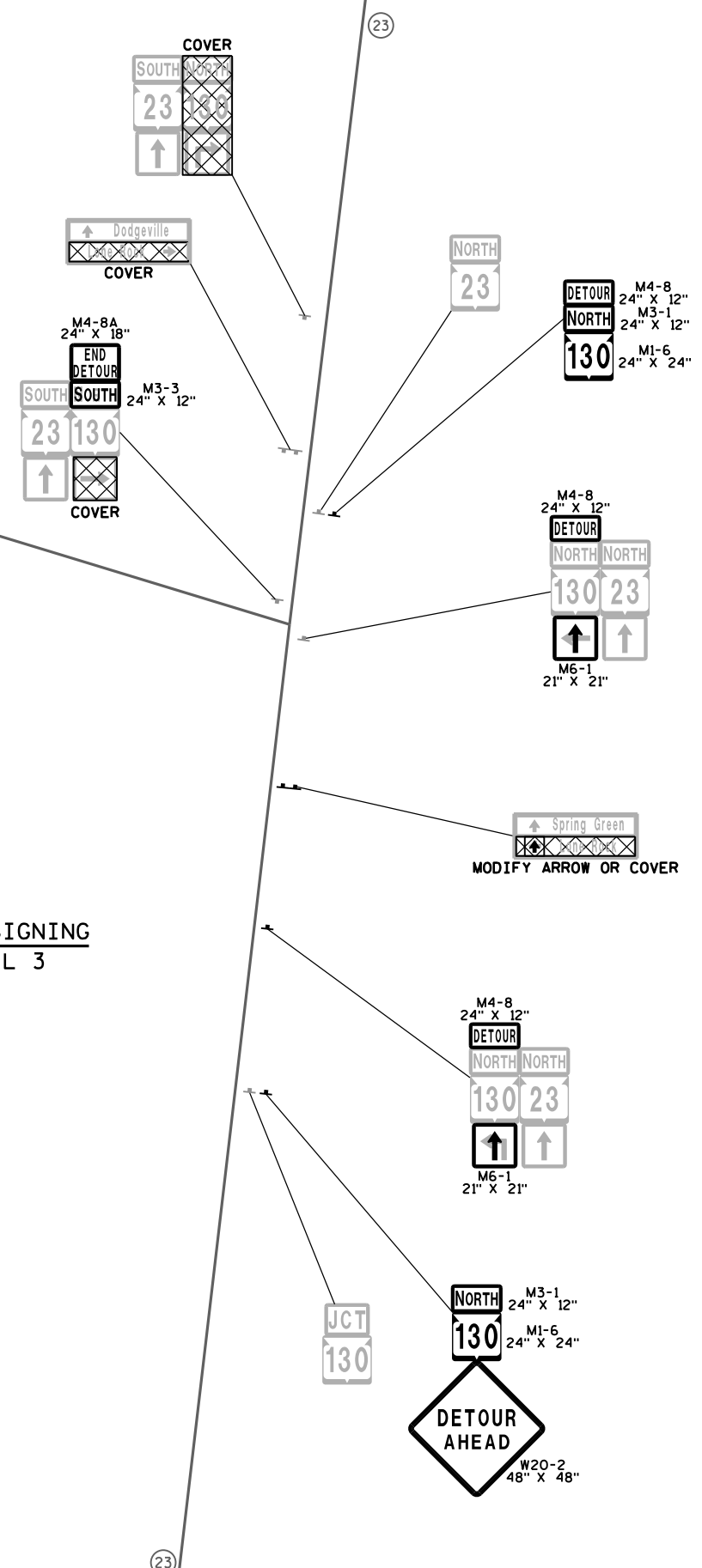
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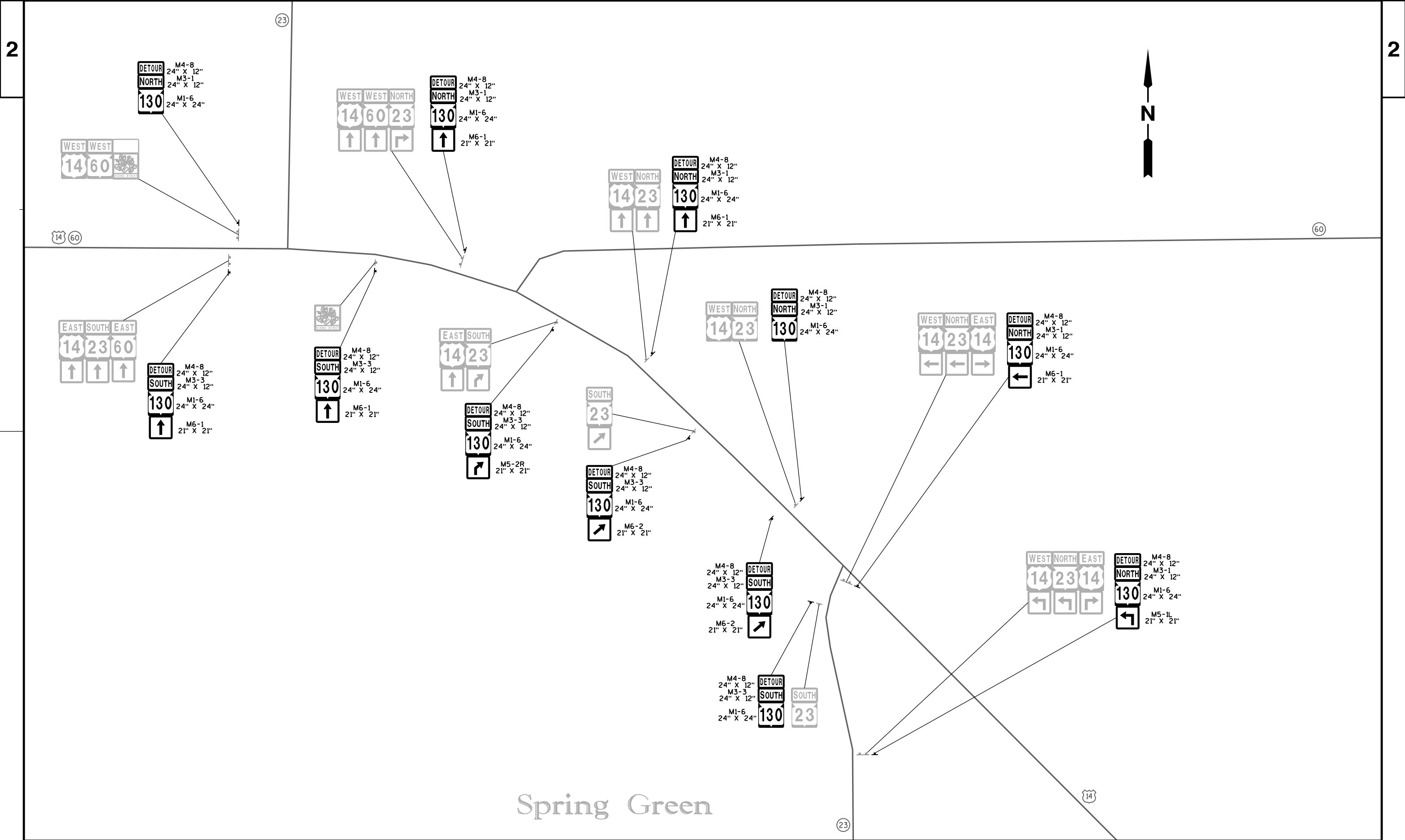
COUNTY: RICHLAND

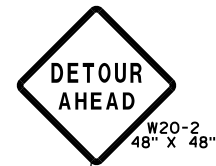
DETOUR SIGNING DETAIL 1

SHEET

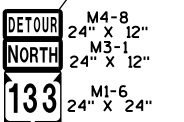
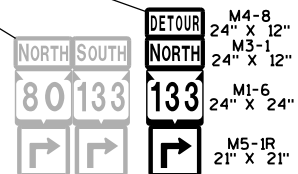
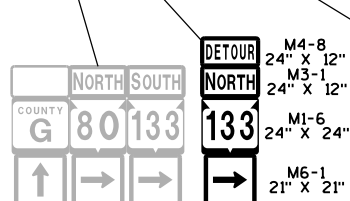
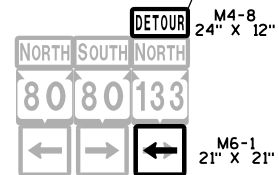
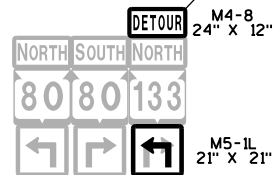
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DETOUR SIGNING
DETAIL 2DETOUR SIGNING
DETAIL 3



DETOUR SIGNING
DETAIL 7DETOUR SIGNING
DETAIL 6

(133)



Muscoda

Estimate Of Quantities

5770-01-60

Line	Item	Item Description	Unit	Total	Qty
0002	204.0165	Removing Guardrail	LF	84.000	84.000
0004	506.0105	Structural Steel Carbon	LB	1,855.000	1,855.000
0006	614.0200	Steel Thrie Beam Structure Approach	LF	84.000	84.000
0008	619.1000	Mobilization	EACH	1.000	1.000
0010	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0012	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	2.000	2.000
0014	637.2210	Signs Type II Reflective H	SF	16.000	16.000
0016	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0018	638.2602	Removing Signs Type II	EACH	6.000	6.000
0020	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0022	642.5001	Field Office Type B	EACH	1.000	1.000
0024	643.0420	Traffic Control Barricades Type III	DAY	1,430.000	1,430.000
0026	643.0705	Traffic Control Warning Lights Type A	DAY	2,080.000	2,080.000
0028	643.0900	Traffic Control Signs	DAY	14,300.000	14,300.000
0030	643.0920	Traffic Control Covering Signs Type II	EACH	13.000	13.000
0032	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0034	643.5000	Traffic Control	EACH	1.000	1.000
0036	SPV.0060	Special 01. Railing Attachment Special B-52-0856	EACH	4.000	4.000
0038	SPV.0105	Special 01. Structure Spot Cleaning and Painting Structure B-52-0856	LS	1.000	1.000
0040	SPV.0105	Special 02. Structural Steel Repair B-52-0856	LS	1.000	1.000

REMOVING GUARDRAIL

						204.0165	
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS	
0010	22+92	-	23+13	LT	21	SOUTHWEST QUAD	
0010	22+92	-	23+13	RT	21	SOUTHEAST QUAD	
0010	28+65	-	28+86	LT	21	NORTHWEST QUAD	
0010	28+65	-	28+86	RT	21	NORTHEAST QUAD	
TOTAL 0010					84		

STEEL THRIE BEAM STRUCTURE APPROACH

						614.0200	
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS	
0010	22+92	-	23+13	LT	21	SOUTHWEST QUAD	
0010	22+92	-	23+13	RT	21	SOUTHEAST QUAD	
0010	28+65	-	28+86	LT	21	NORTHWEST QUAD	
0010	28+65	-	28+86	RT	21	NORTHEAST QUAD	
TOTAL 0010					84		

TRAFFIC CONTROL

		643.5000	
CATEGORY	LOCATION	EACH	REMARKS
0010	Project	1	
TOTAL 0010		1	

MOBILIZATION

		619.1000	
CATEGORY	LOCATION	EACH	REMARKS
0010	Project	1	
TOTAL 0010		1	

FIELD OFFICE TYPE B

		642.5001	
CATEGORY	LOCATION	EACH	REMARKS
0010	Project	1	
TOTAL 0010		1	

SIGNING

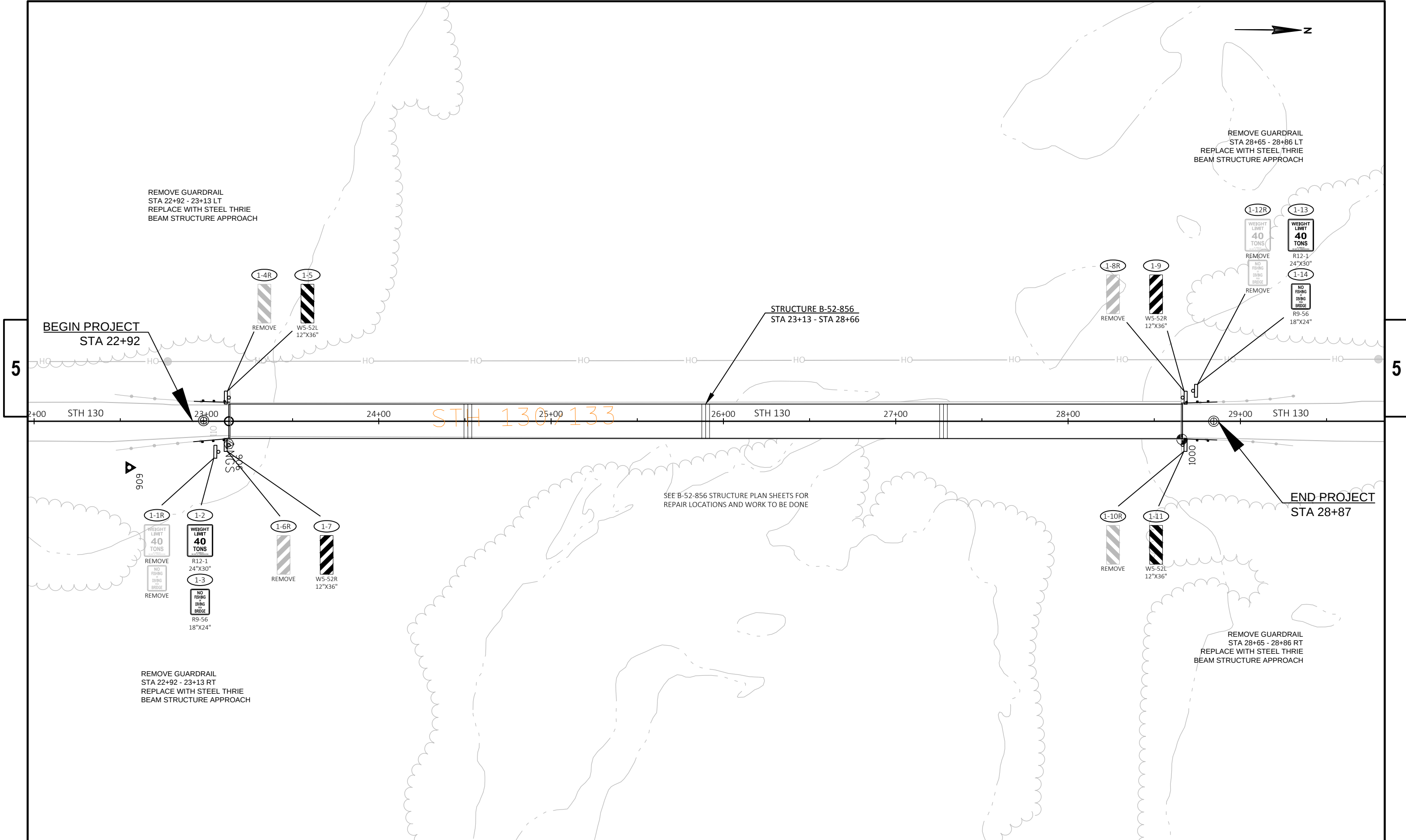
CATEGORY	SIGN		STATION	LOCATION	SIGN		DESCRIPTION	ORDER LINES	POSTS WOOD	POSTS WOOD	SIGNS TYPE	SIGNS TYPE	REMOVING	REMOVING	REMARKS
	NUMBER	SIZE			CODE	SIZE			4X6-INCH X 12-FT 634.0612 EACH	4X6-INCH X 18-FT 634.0618 EACH	II REFLECTIVE H 637.2210 SF	II REFLECTIVE F 637.2230 SF	SIGNS TYPE II 638.2602 EACH	SMALL SIGN SUPPORTS 638.3000 EACH	
0010	1-1R	24"x30"	23+07	RT	R12-1	24"x30"	WEIGHT LIMIT __ TONS	40	-	-	-	-	1	1	
0010		18"x24"			R9-56	18"x24"	NO FISHING OR DIVING FROM BRIDGE	-	-	-	-	-	-	-	REMOVED UNDER 1-1R
0010	1-2	24"x30"	23+07	RT	R12-1	24"x30"	WEIGHT LIMIT __ TONS	40	-	1	5.0	-	-	-	
0010	1-3	18"x24"	23+07	RT	R9-56	18"x24"	NO FISHING OR DIVING FROM BRIDGE	-	-	-	3.0	-	-	-	ATTACH TO SAME POST AS 1-2
0010	1-4R	12"x36"	23+13	LT	W5-52L	12"x36"	CLEARANCE STRIPER DOWN LEFT	-	-	-	-	-	1	1	
0010	1-5	12"x36"	23+13	LT	W5-52L	12"x36"	CLEARANCE STRIPER DOWN LEFT	-	1	-	-	3.0	-	-	
0010	1-6R	12"x36"	23+13	RT	W5-52R	12"x36"	CLEARANCE STRIPER DOWN RIGHT	-	-	-	-	-	1	1	
0010	1-7	12"x36"	23+13	RT	W5-52R	12"x36"	CLEARANCE STRIPER DOWN RIGHT	-	1	-	-	3.0	-	-	
0010	1-8R	12"x36"	28+66	LT	W5-52L	12"x36"	CLEARANCE STRIPER DOWN LEFT	-	-	-	-	-	1	1	
0010	1-9	12"x36"	28+66	LT	W5-52L	12"x36"	CLEARANCE STRIPER DOWN LEFT	-	1	-	-	3.0	-	-	
0010	1-10R	12"x36"	28+66	RT	W5-52R	12"x36"	CLEARANCE STRIPER DOWN RIGHT	-	-	-	-	-	1	1	
0010	1-11	12"x36"	28+66	RT	W5-52R	12"x36"	CLEARANCE STRIPER DOWN RIGHT	-	1	-	-	3.0	-	-	
0010	1-12R	24"x30"	28+72	LT	R12-1	24"x30"	WEIGHT LIMIT __ TONS	40	-	-	-	-	1	1	
0010		18"x24"			R9-56	18"x24"	NO FISHING OR DIVING FROM BRIDGE	-	-	-	-	-	-	-	REMOVED UNDER 1-12R
0010	1-13	24"x30"	28+72	LT	R12-1	24"x30"	WEIGHT LIMIT __ TONS	40	-	1	5.0	-	-	-	
0010	1-14	18"x24"	28+72	LT	R9-56	18"x24"	NO FISHING OR DIVING FROM BRIDGE	-	-	-	3.0	-	-	-	ATTACH TO SAME POST AS 1-13
TOTAL 0010									4	2	16	12	6	6	

TRAFFIC CONTROL

			TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL COVERING SIGNS TYPE II			TRAFFIC CONTROL SIGNS PCMS		
CATEGORY	PURPOSE	DURATION DAY	643.0420 DAY	EACH	643.0705 DAY	EACH	643.0900 DAY	EACH	643.0920 EACH	NUMBER OF CYCLES	NUMBER OF SIGNS	643.1050 DAY	EACH	REMARKS
0010	ADVANCE NOTIFICATION	7.00	-	0	-	0	-	0	-	-	-	14	2	SEE *NOTE
0010	CLOSURE	65.00	1430	22	2080	32	14300	220	13	1	13	-	0	SEE **NOTE
0010														
TOTAL 0010			1430		2080		14300		13			14		

*NOTE: PCMS TO BE PLACED 7 DAYS PRIOR TO THE START OF DETOUR WITH MESSAGE "BRIDGE, TO CLOSE, X/XX/XX" AT LOCATIONS 100' SOUTH AND 1225' NORTH OF STRUCTURE.

**NOTE: CLOSE BRIDGE ACCORDING TO S.D.D. 15C02-06A, B, & C. IT WAS ESTIMATED THAT 200 DETOUR SIGNS AND 20 TRAFFIC CONTROL SIGNS WOULD BE NEEDED DAILY.



PROJECT NO: 5770-01-60	HWY: STH 130	COUNTY: RICHLAND	PLAN STH 130	SHEET	E
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Standard Detail Drawing List

14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES

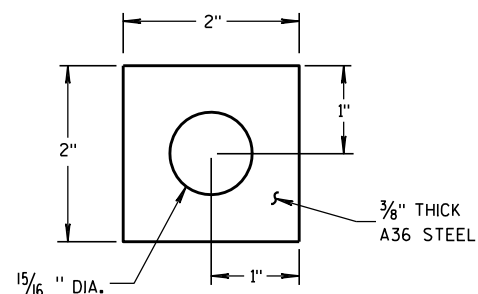
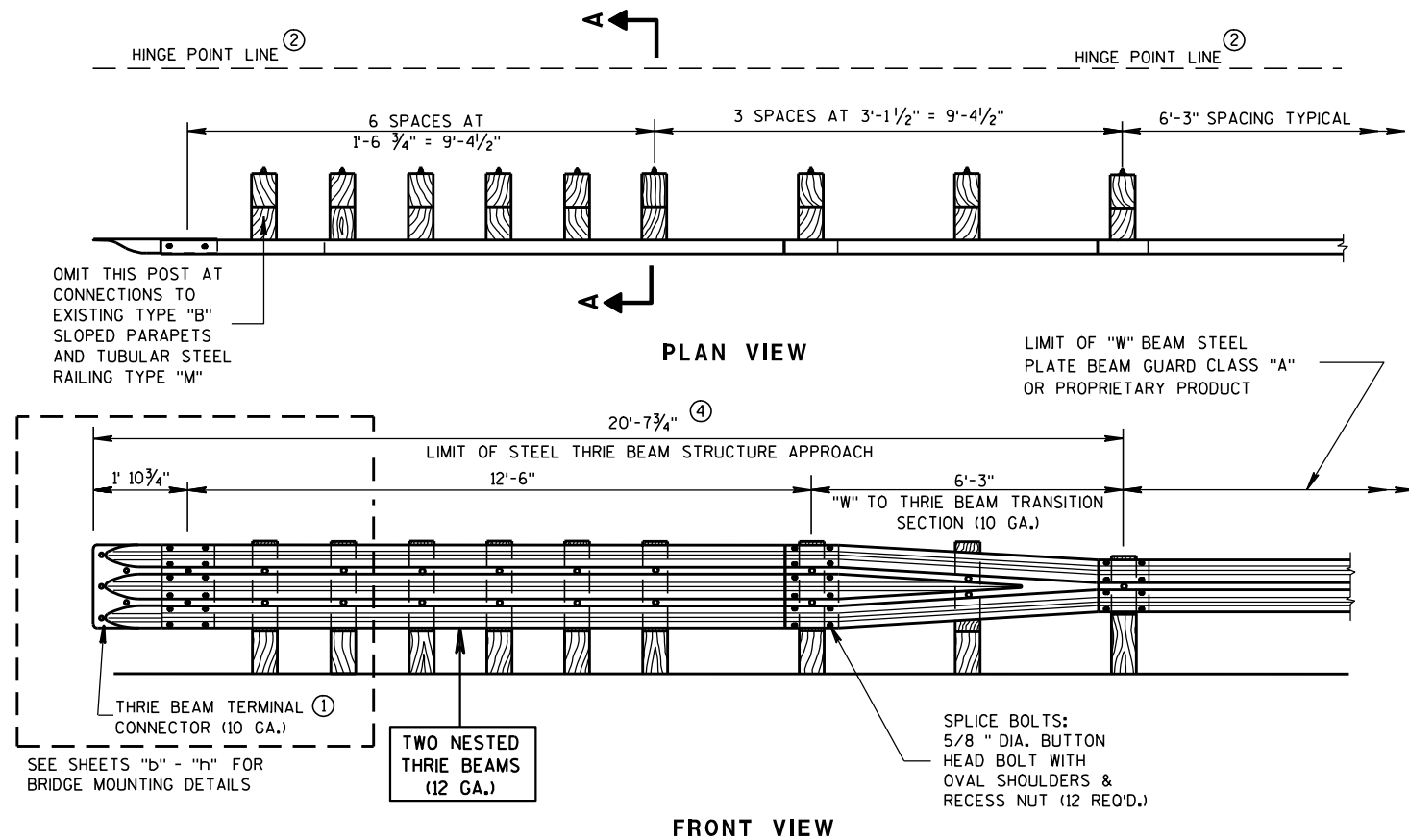


PLATE WASHER DETAIL

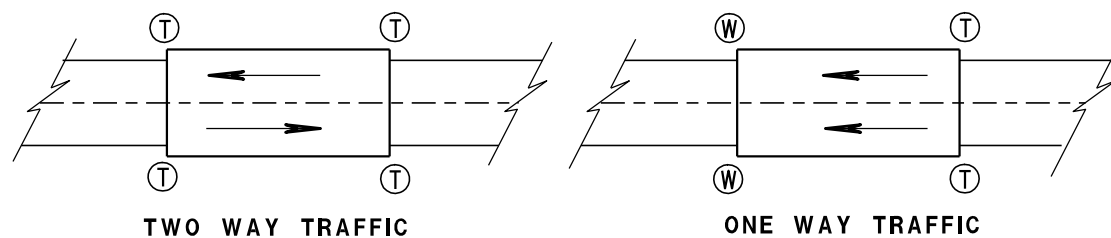
GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

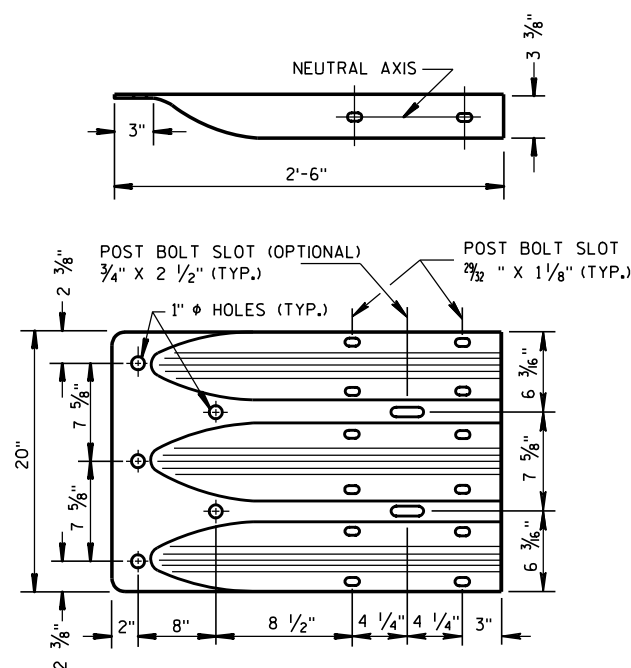
DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2", AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

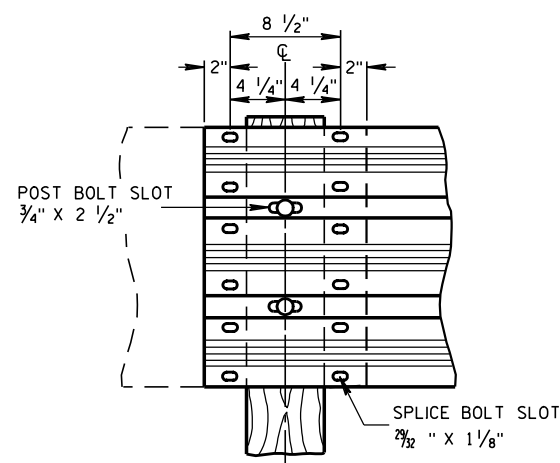
- ① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.
- ② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.
- ③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.
- ④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



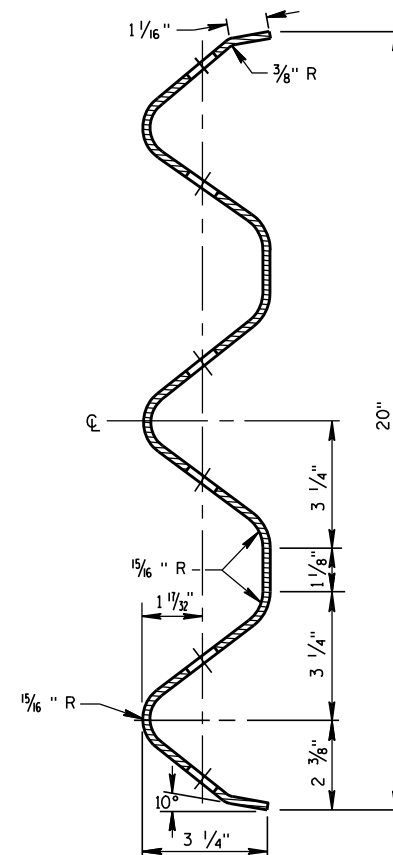
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE



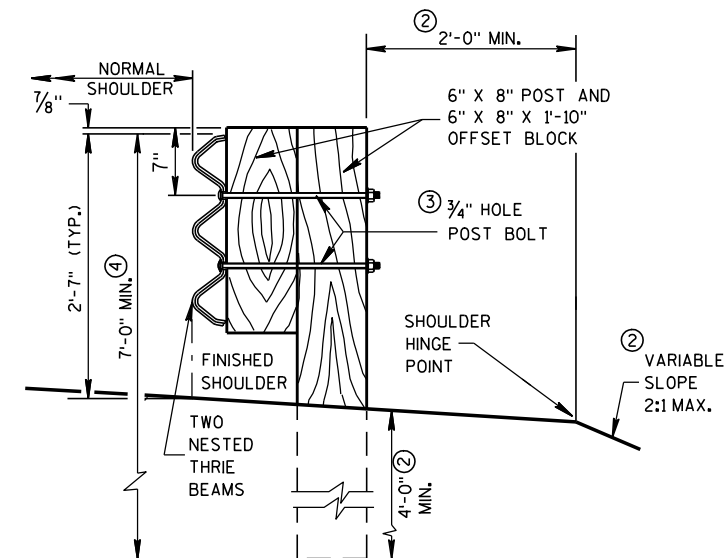
THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE



SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION A-A

STEEL THRIE BEAM STRUCTURE APPROACH

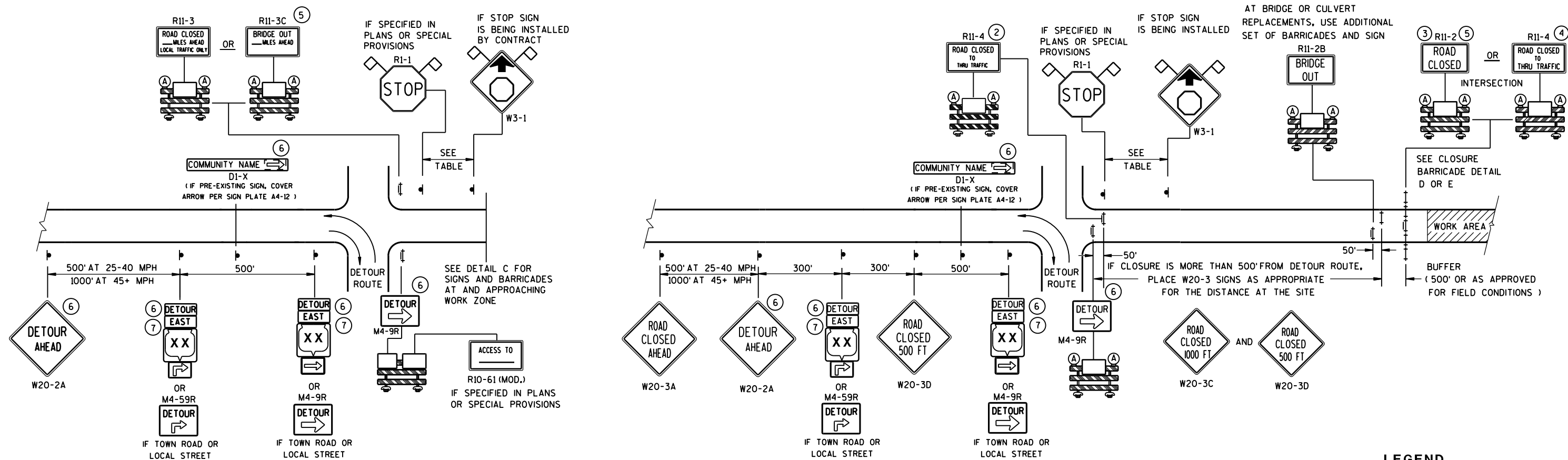
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

FHWA

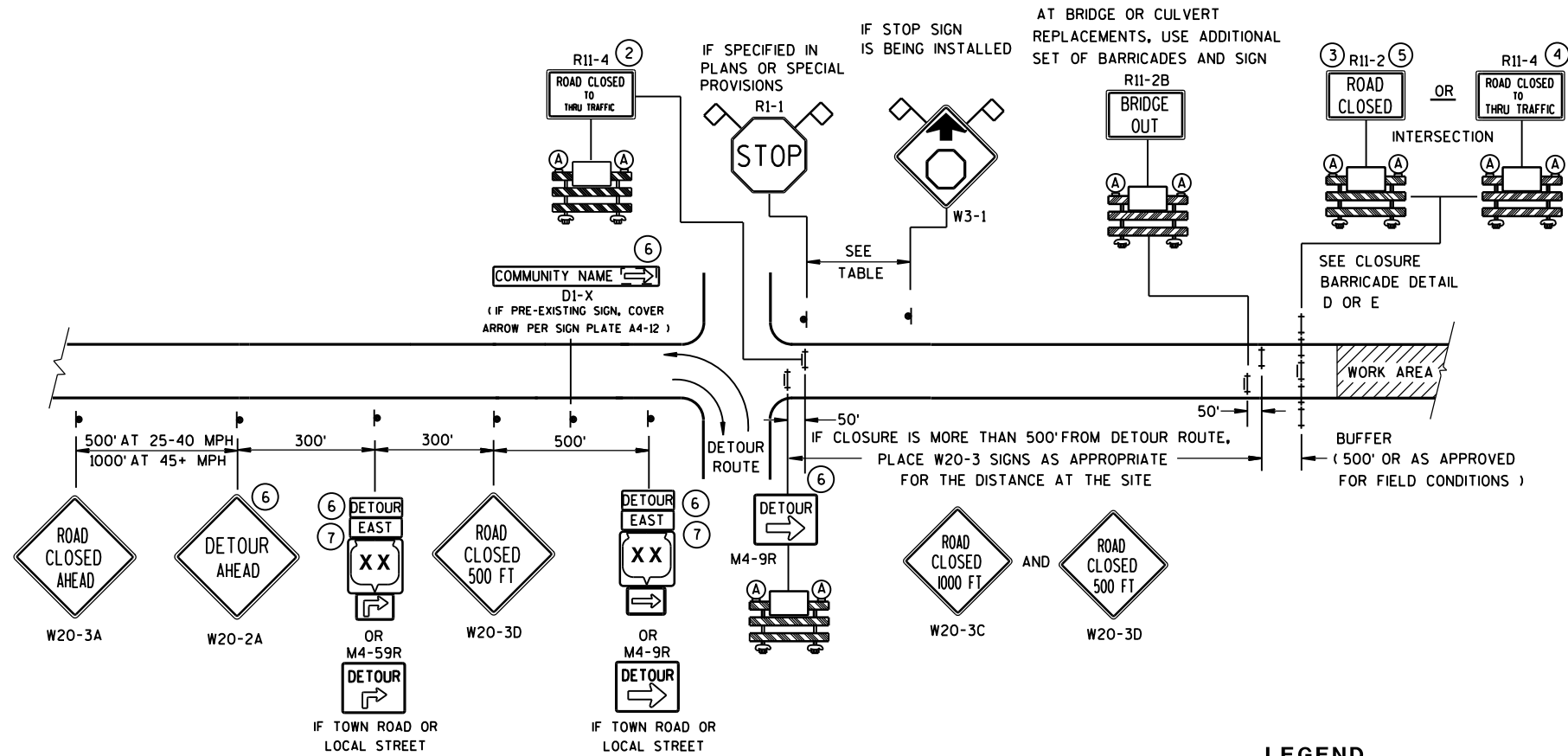
/s/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

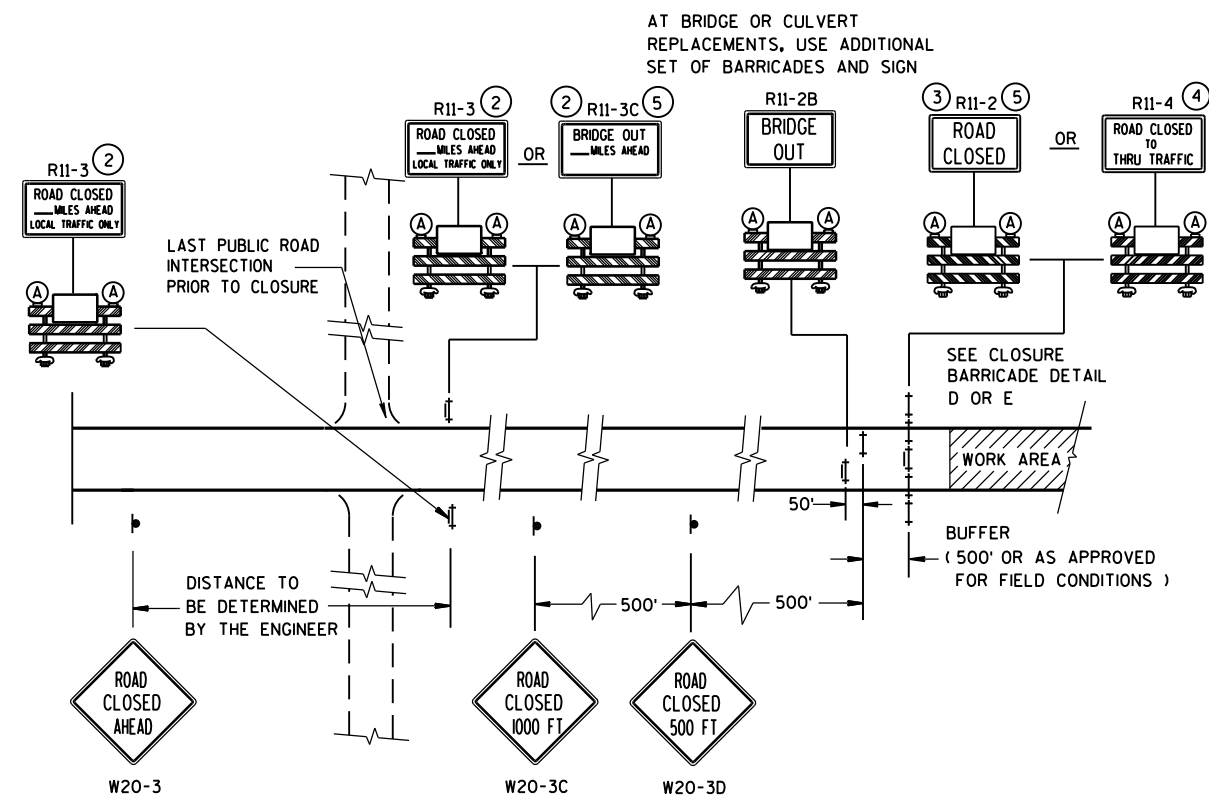
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

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

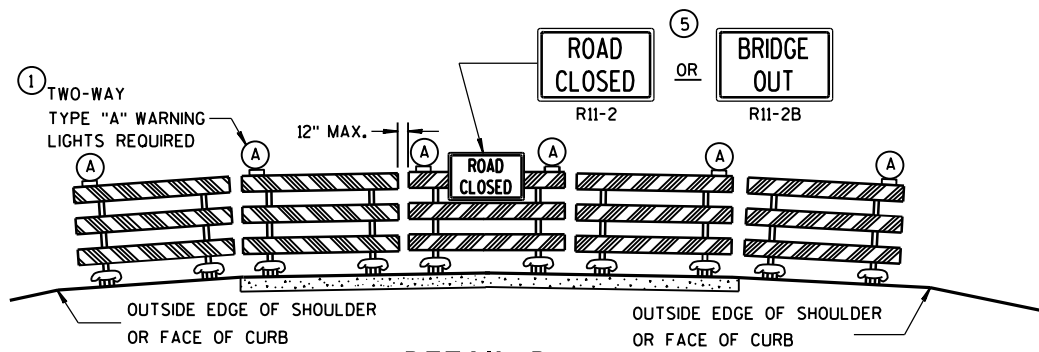
- # LEGEND
-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  WORK AREA
-  M4-8
-  M3-X
-  M1-4
-  M1-5A
-  M1-6
-  M05-1
-  M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

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

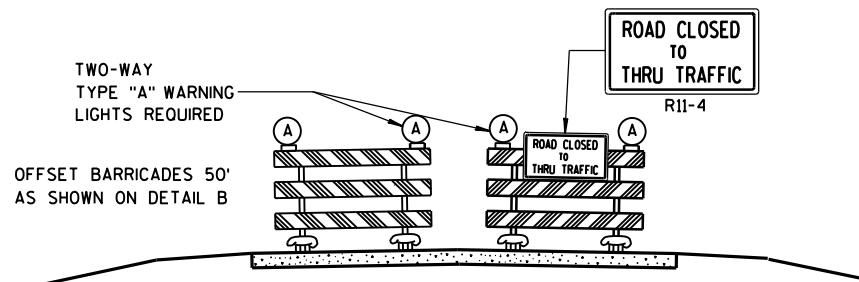
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE TRAFFIC
FHWA	SAFETY ENGINEER



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

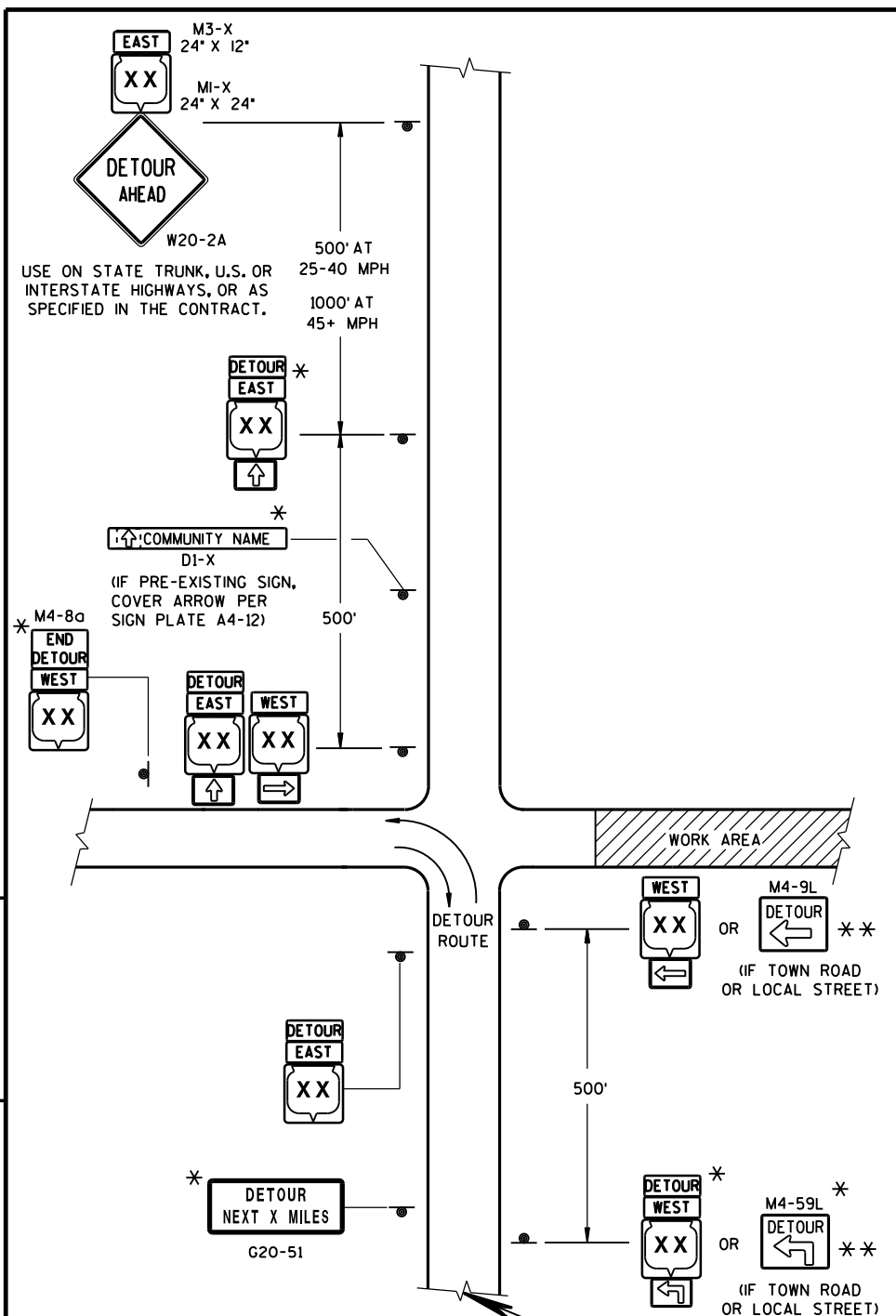
"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
Sept. 2015 DATE	/S/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



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

MATCH POINT

DETAIL F
DETOUR SIGNING

GENERAL NOTES

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

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

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

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

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

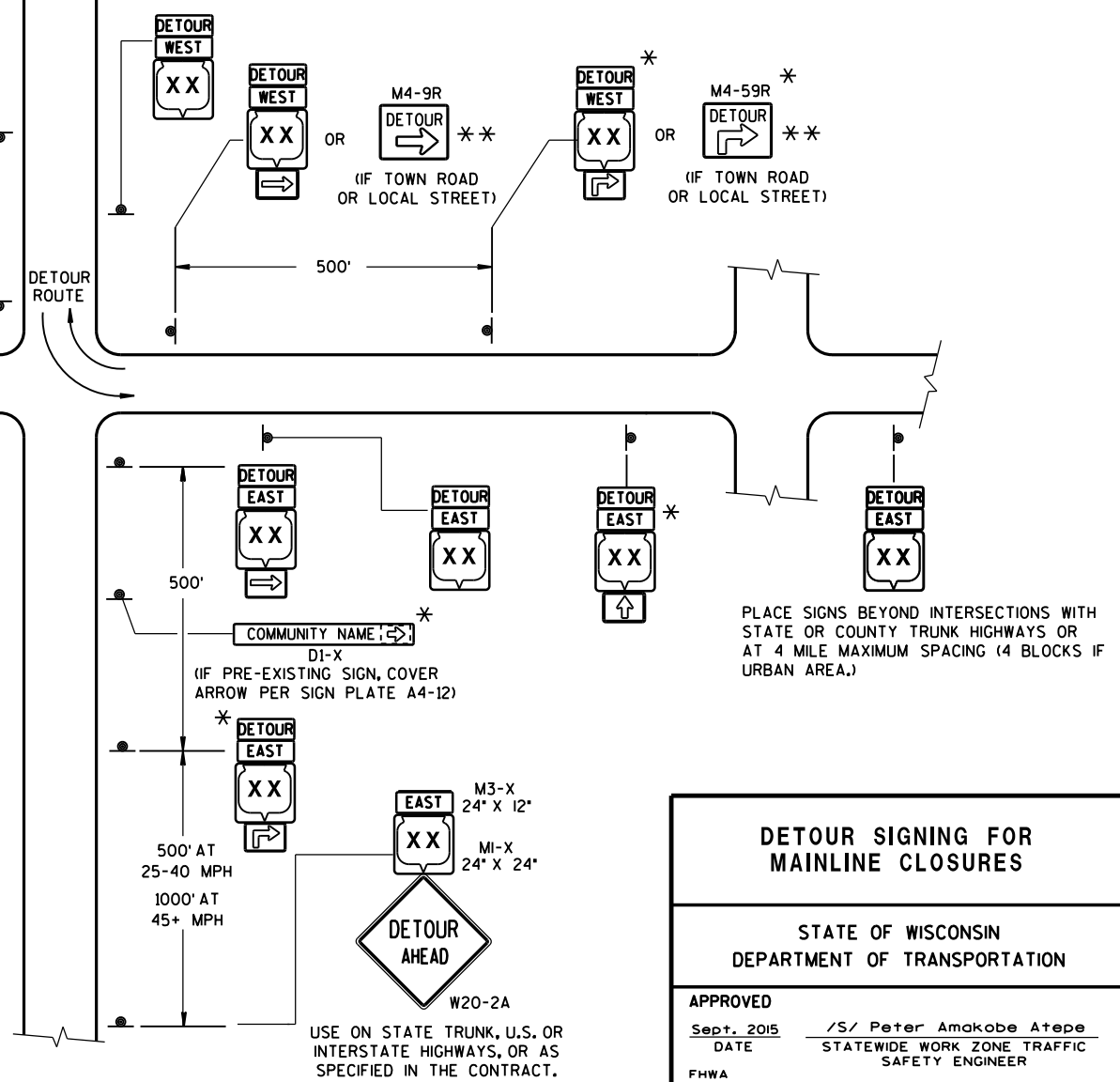
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

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

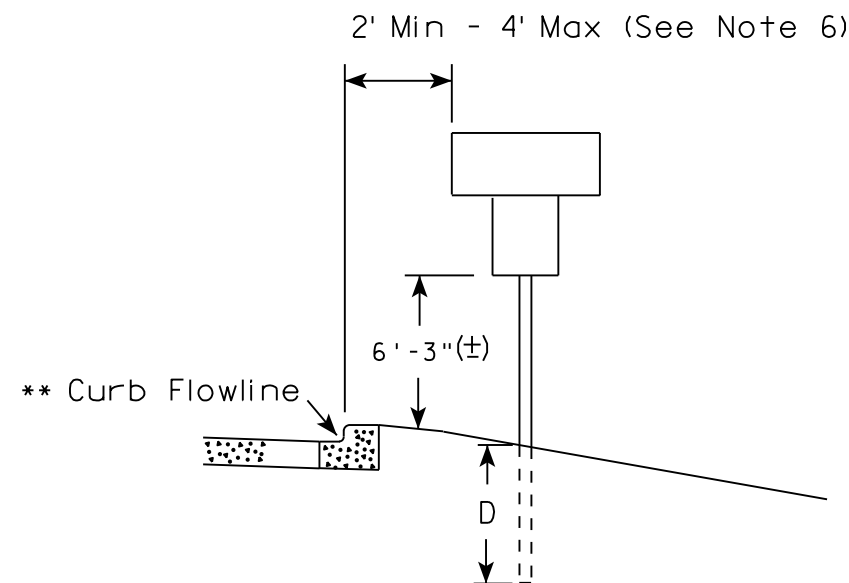
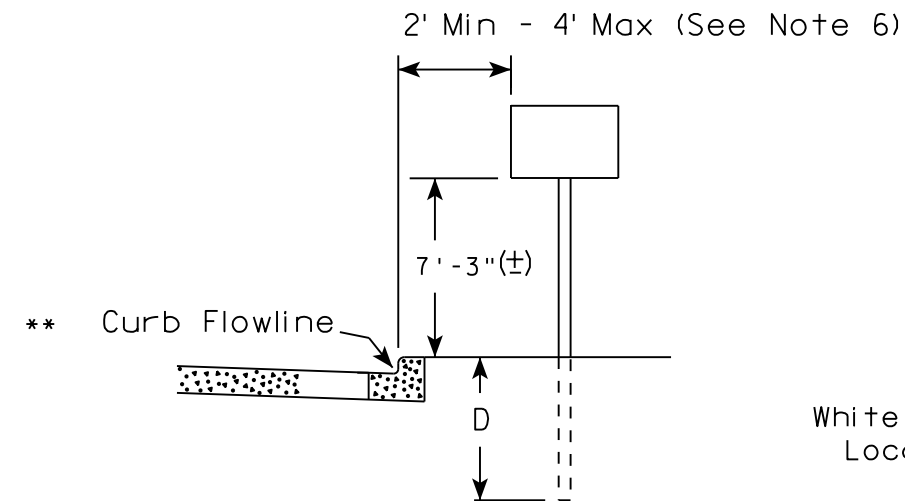
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



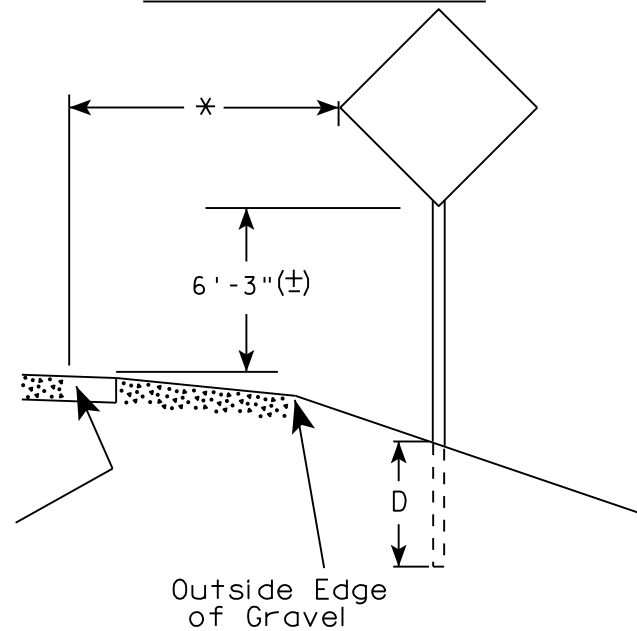
DETOUR SIGNING FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE FWHA	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

URBAN AREA

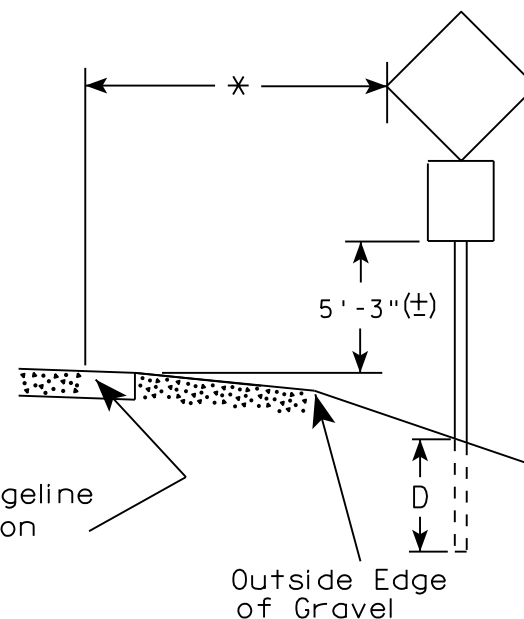


White Edgeline
Location

RURAL AREA (See Note 2)



White Edgeline
Location



Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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

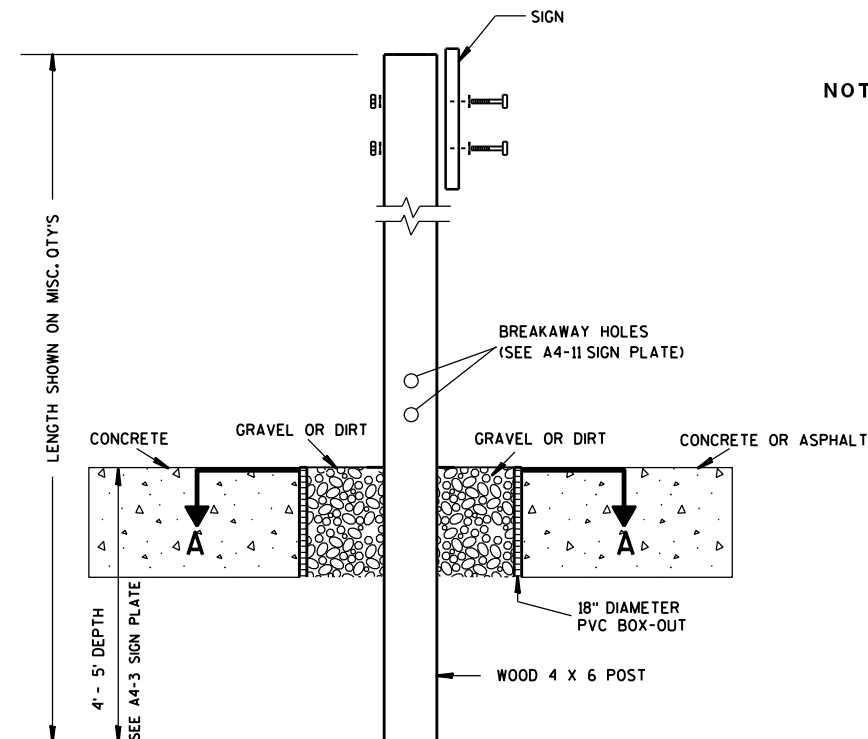
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

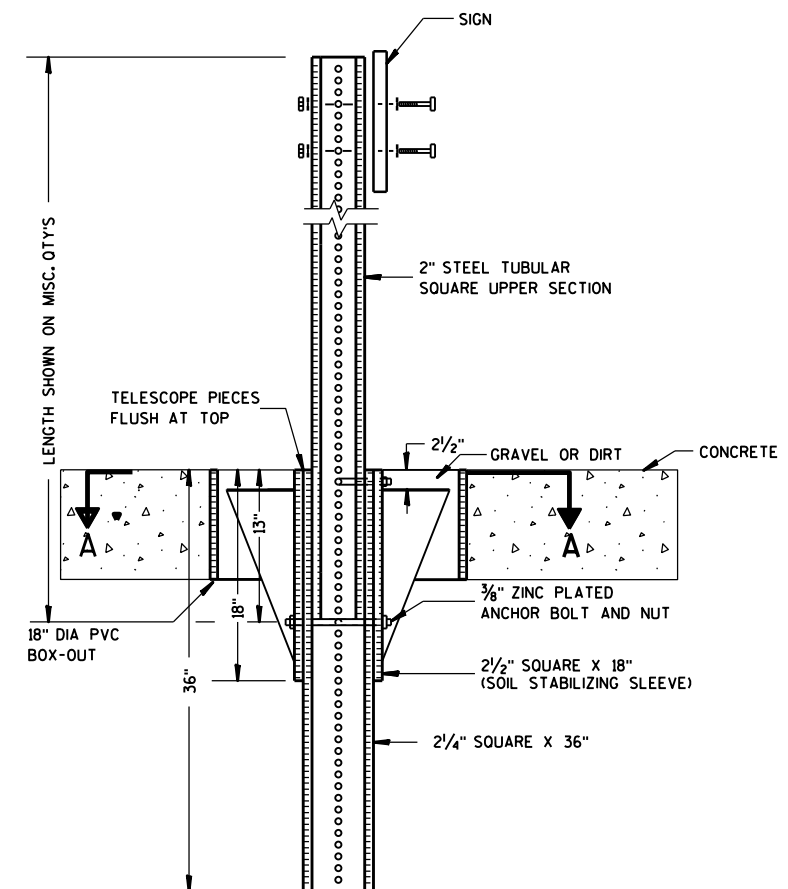
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

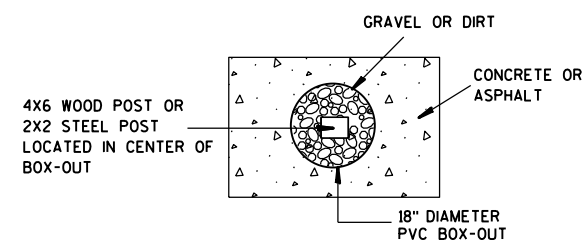
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

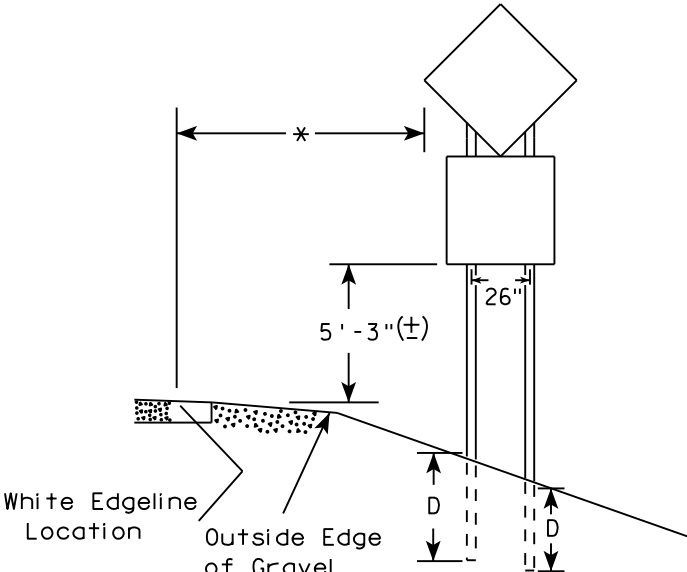
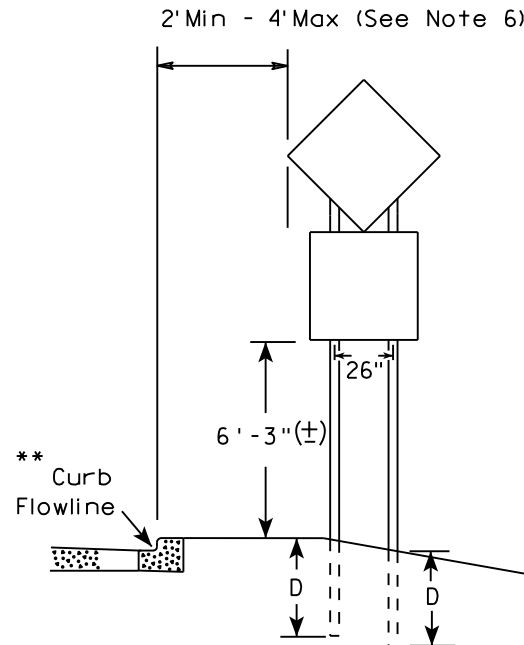
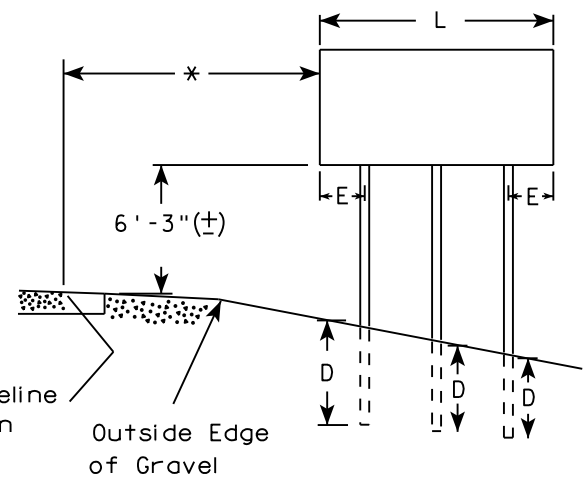
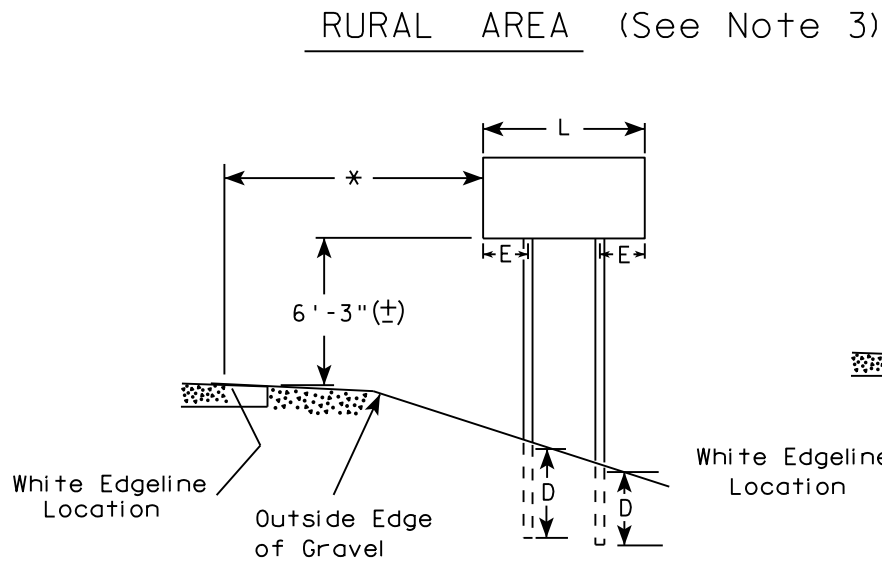
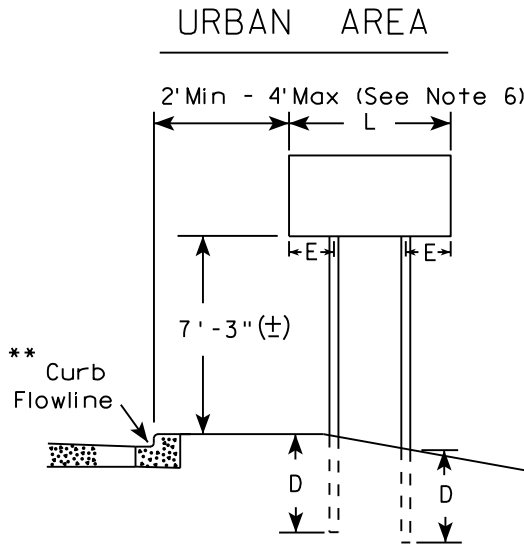
FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1



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

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

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

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

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

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

POST EMBEDMENT DEPTH

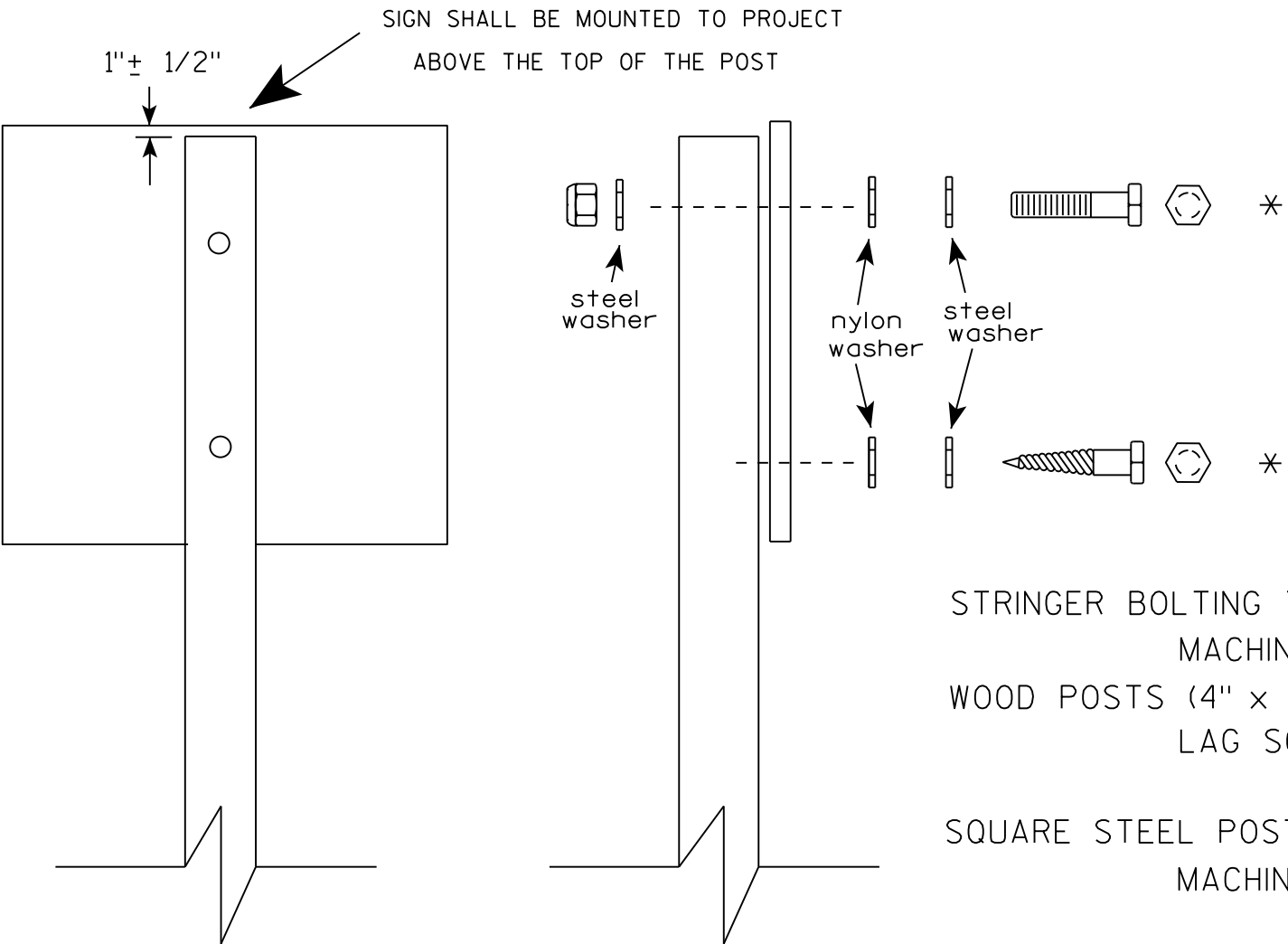
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



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

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

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

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

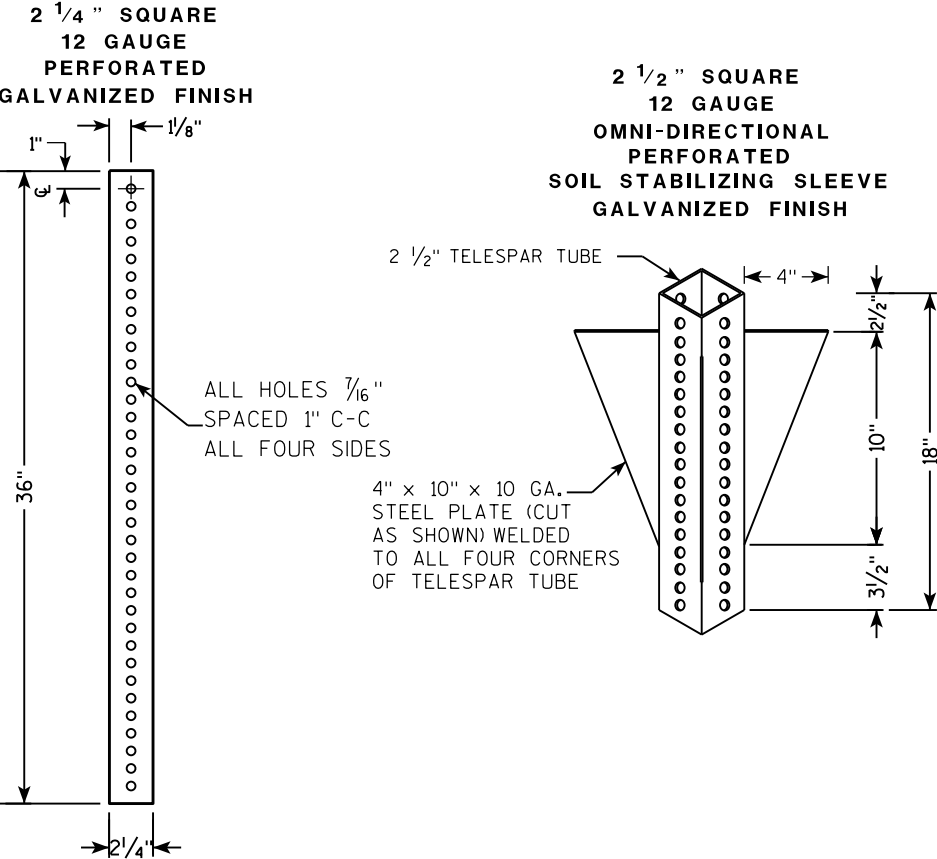
ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

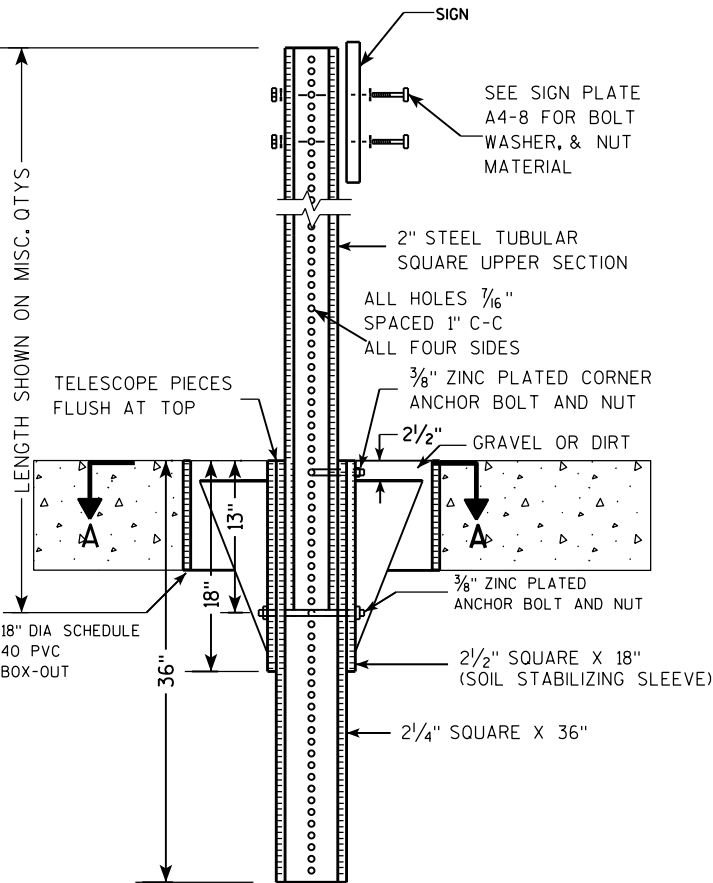
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

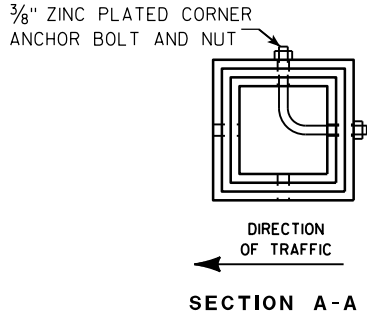
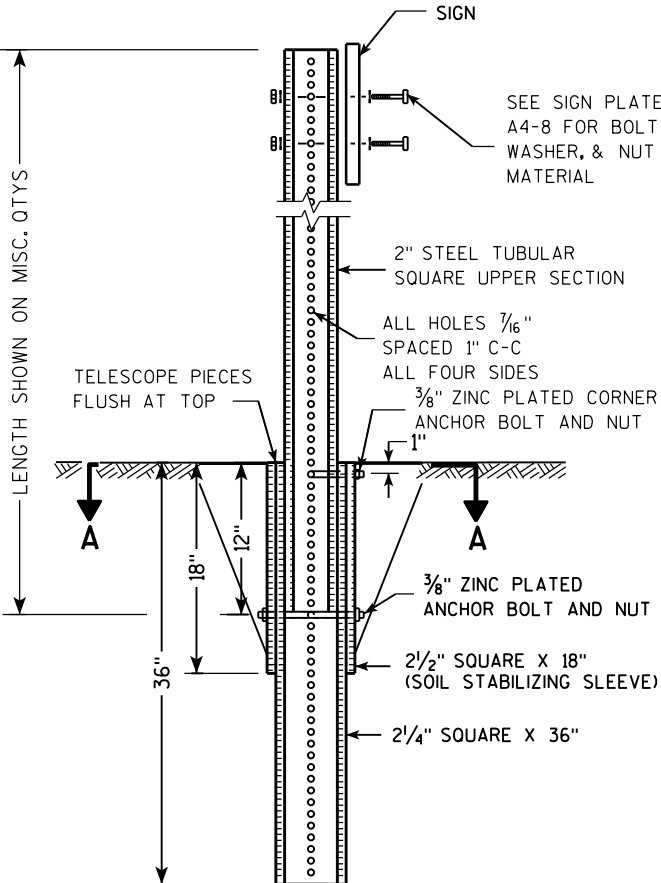
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



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



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



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

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

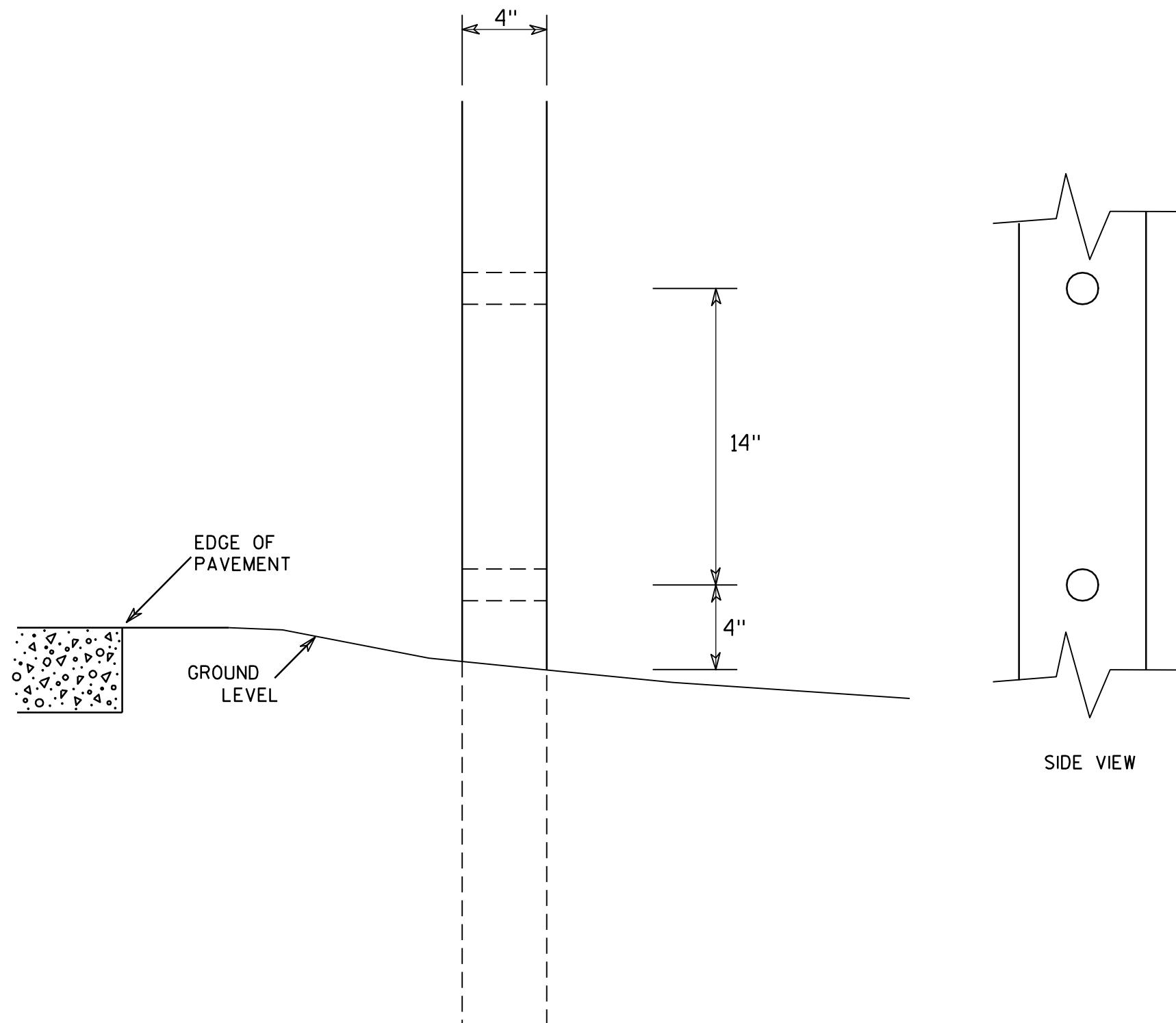
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

7



GENERAL NOTES

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

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

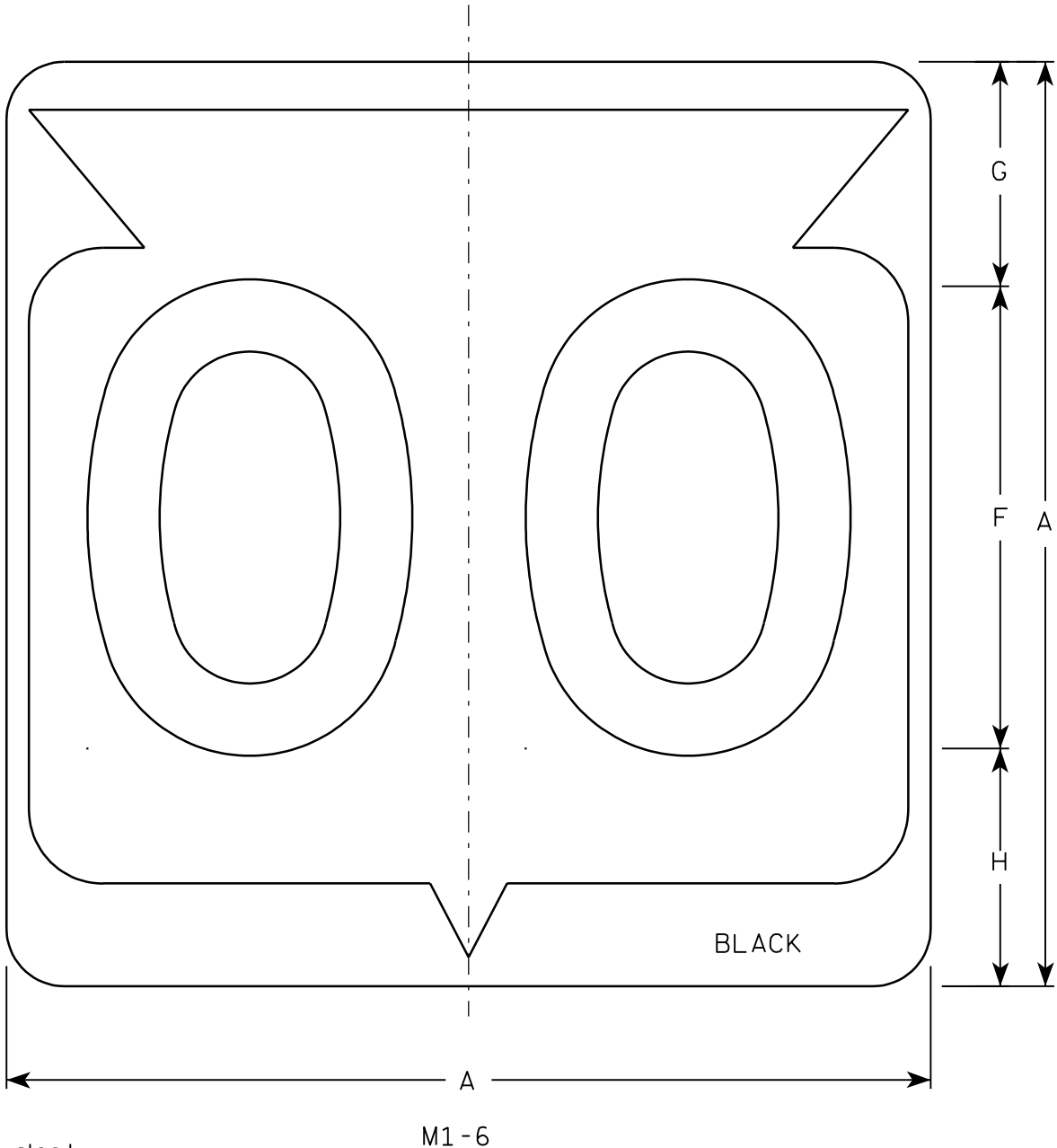
HWY:

COUNTY:

SHEET NO:

E

7



Metric equivalent
for this sign is:

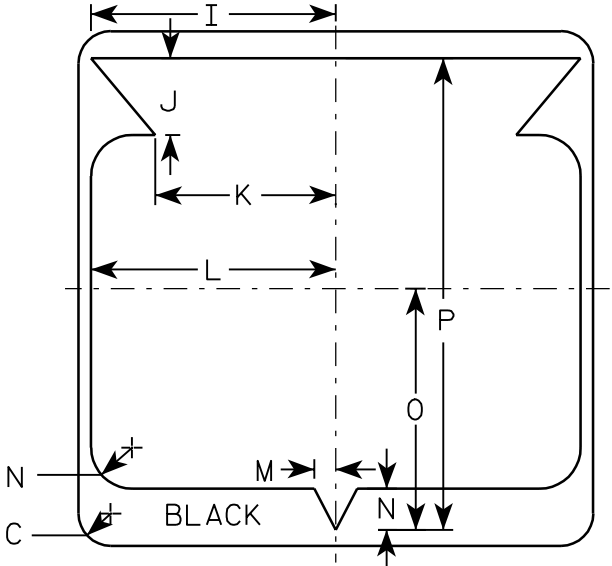
SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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:				E
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NOTES

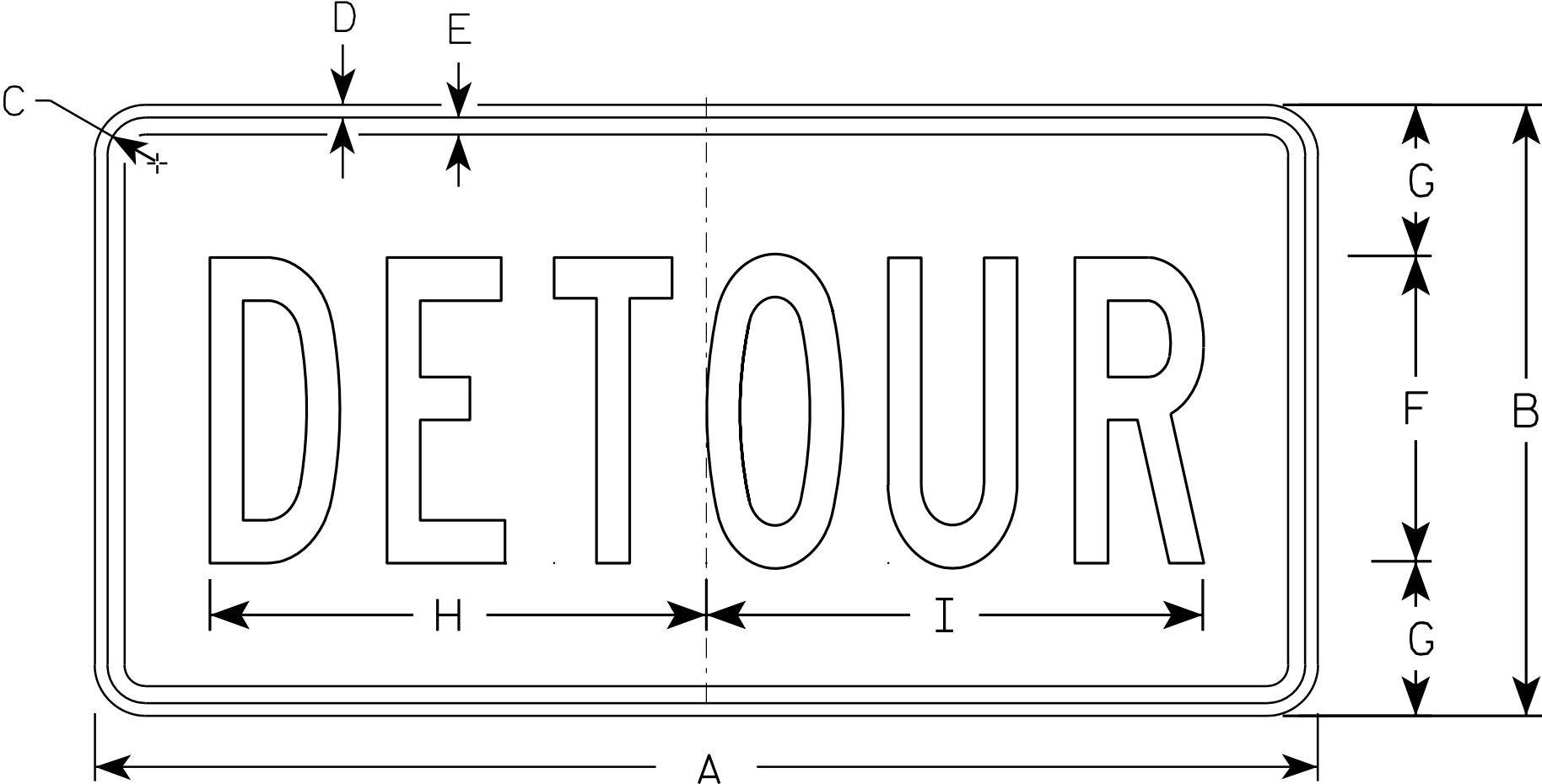
- Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 6
Message - Black
- Message Series - See note 5
- Corners may be square or rounded when base material is plywood but borders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



7

NOTES

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



M4 - 8

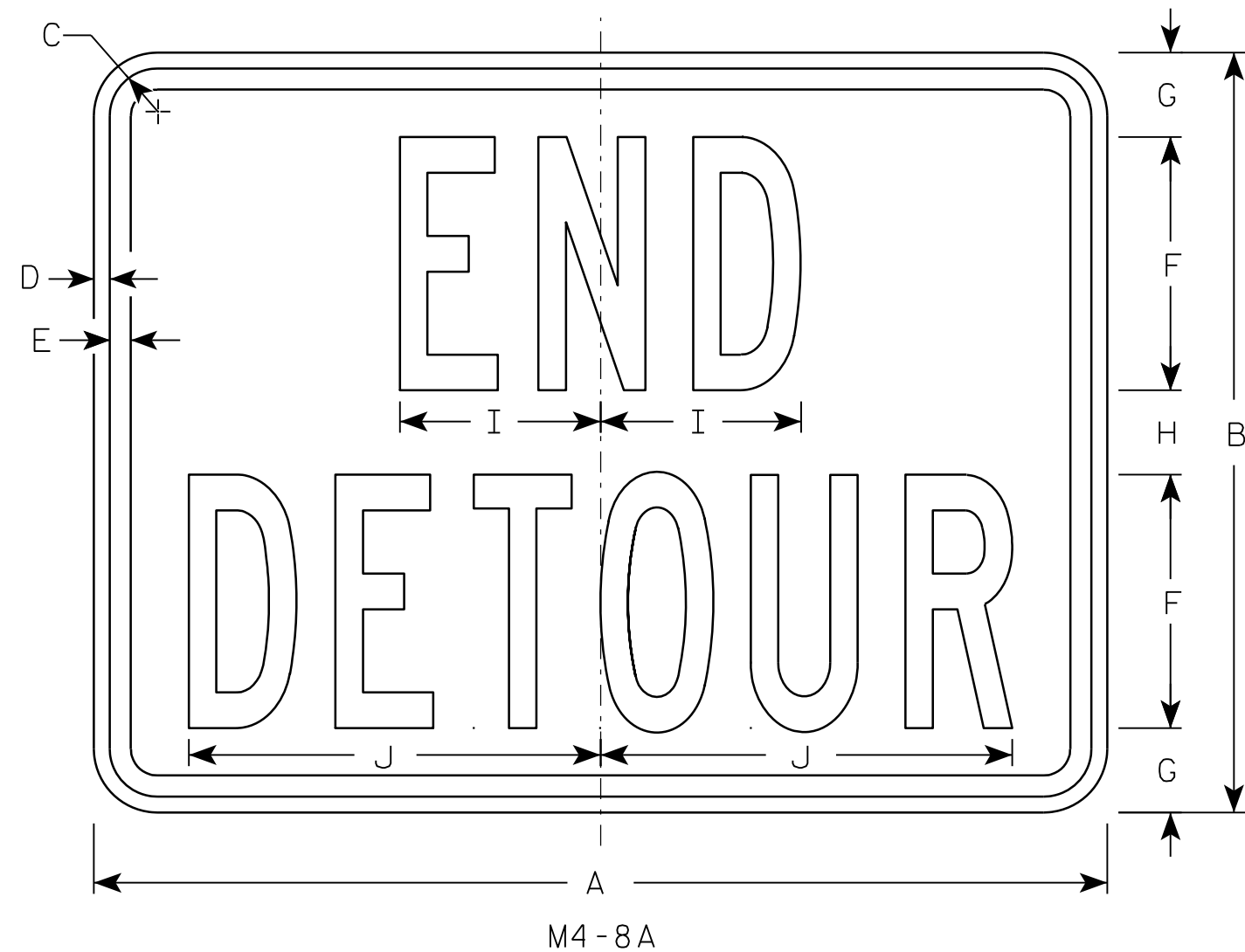
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

STANDARD SIGN
M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

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



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

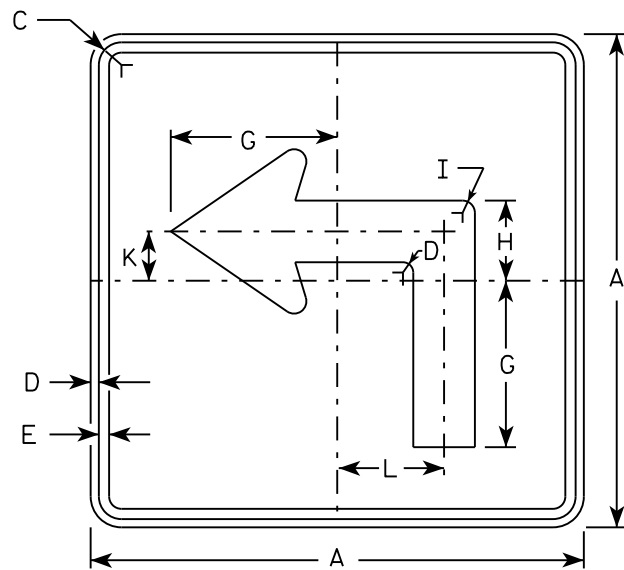
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M4-8A

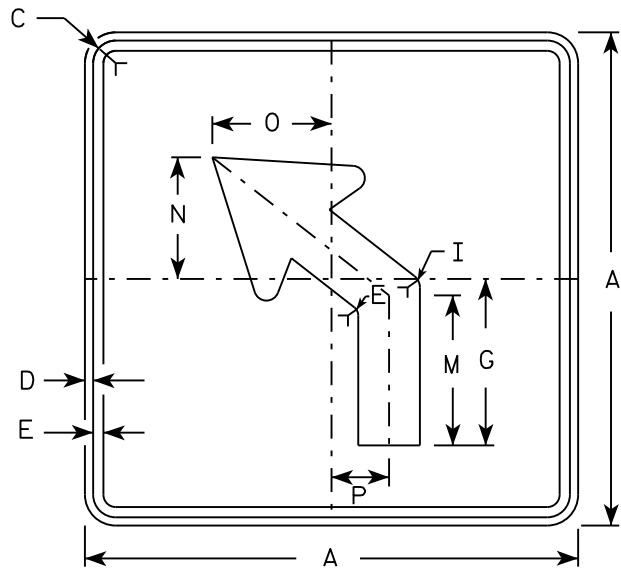
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

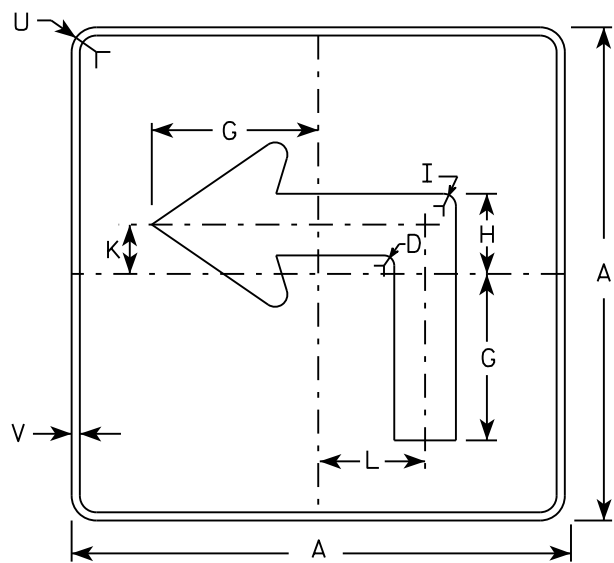
DATE 3/9/11 PLATE NO. M4-8A.2



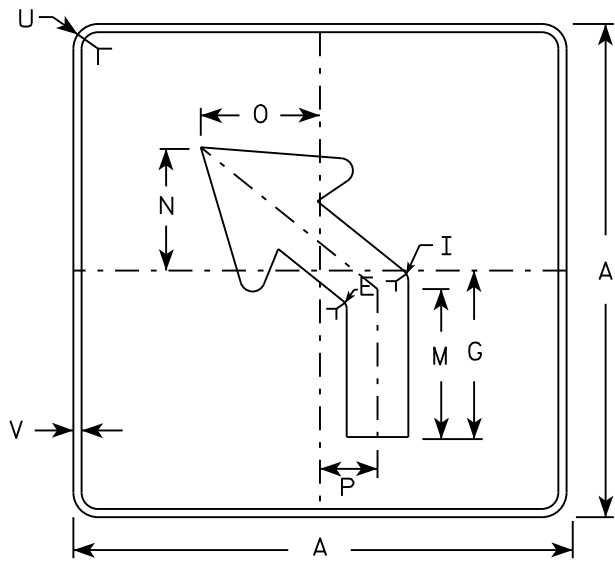
M5-1L
MM5-1L
M05-1L
MP5-1L



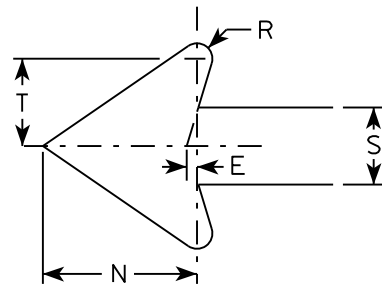
M5-2L
MM5-2L
M05-2L
MP5-2L



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



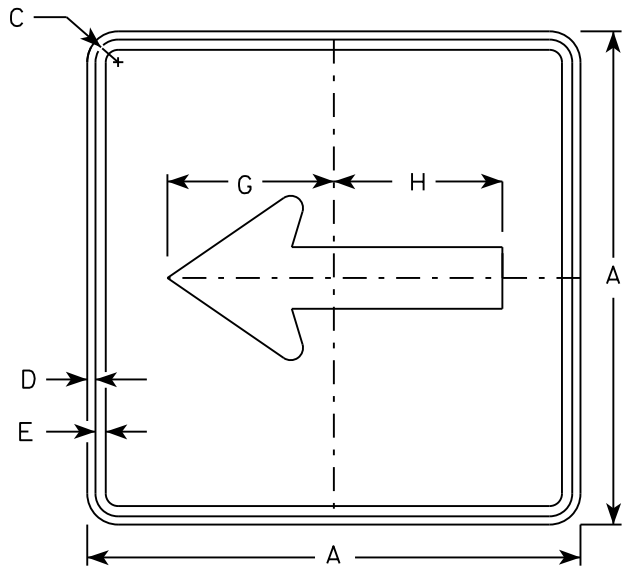
MB5-2L
MK5-2L
MN5-2L
MR5-2L



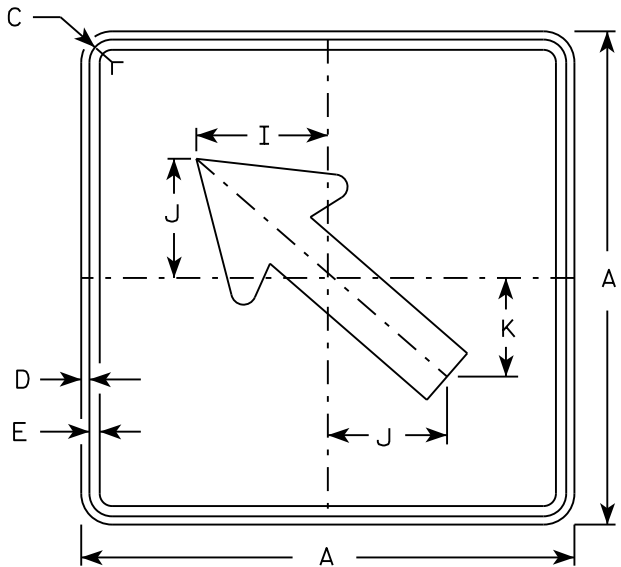
NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background - White
Message - Black
MB5-1 and MB5-2 Background - Blue
Message - White
MK5-1 and MK5-2 Background - Green
Message - White
MM5-1 and MM5-2 Background - White
Message - Green
MN5-1 and MN5-2 Background - Brown
Message - White
M05-1 and M05-2 Background - Orange - Type F Reflective
Message - Black
MP5-1 and MP5-2 Background - White - Type H Reflective
Message - Blue
MR5-1 and MR5-2 Background - Brown
Message - Yellow
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

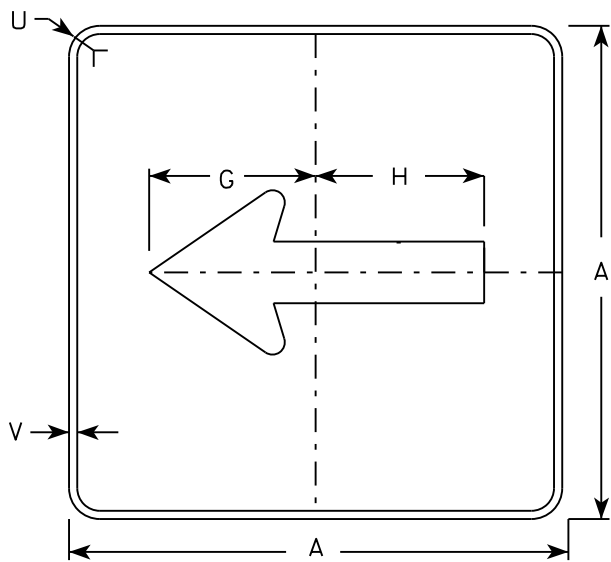
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25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



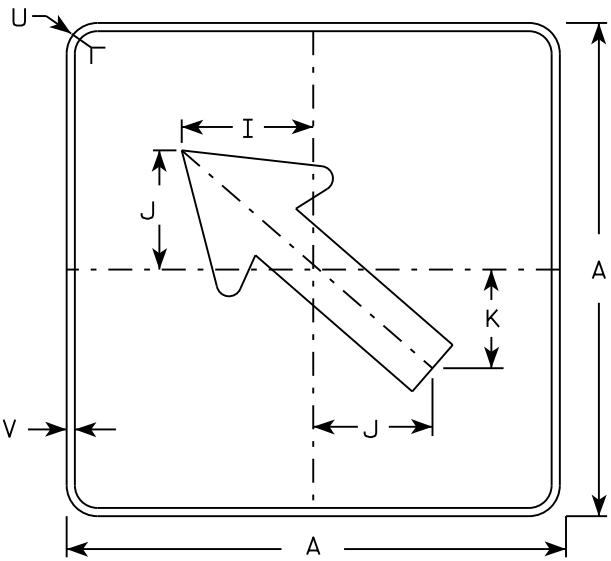
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



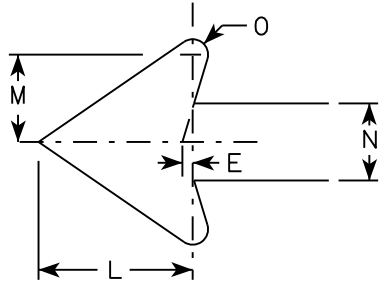
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



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



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



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

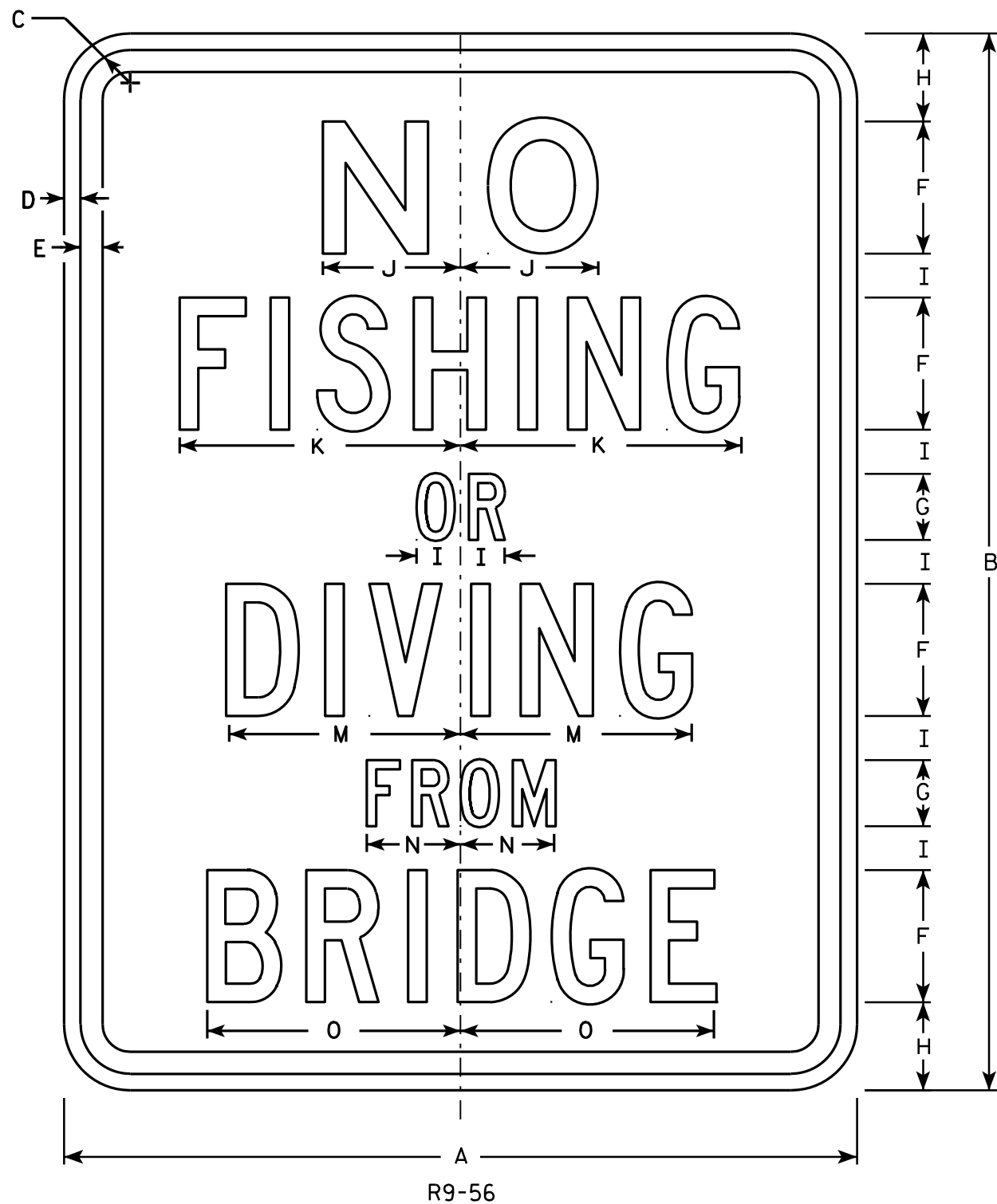
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15



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 - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series E.
Lines 2, 3, 4, 5 and 6 are Series C.

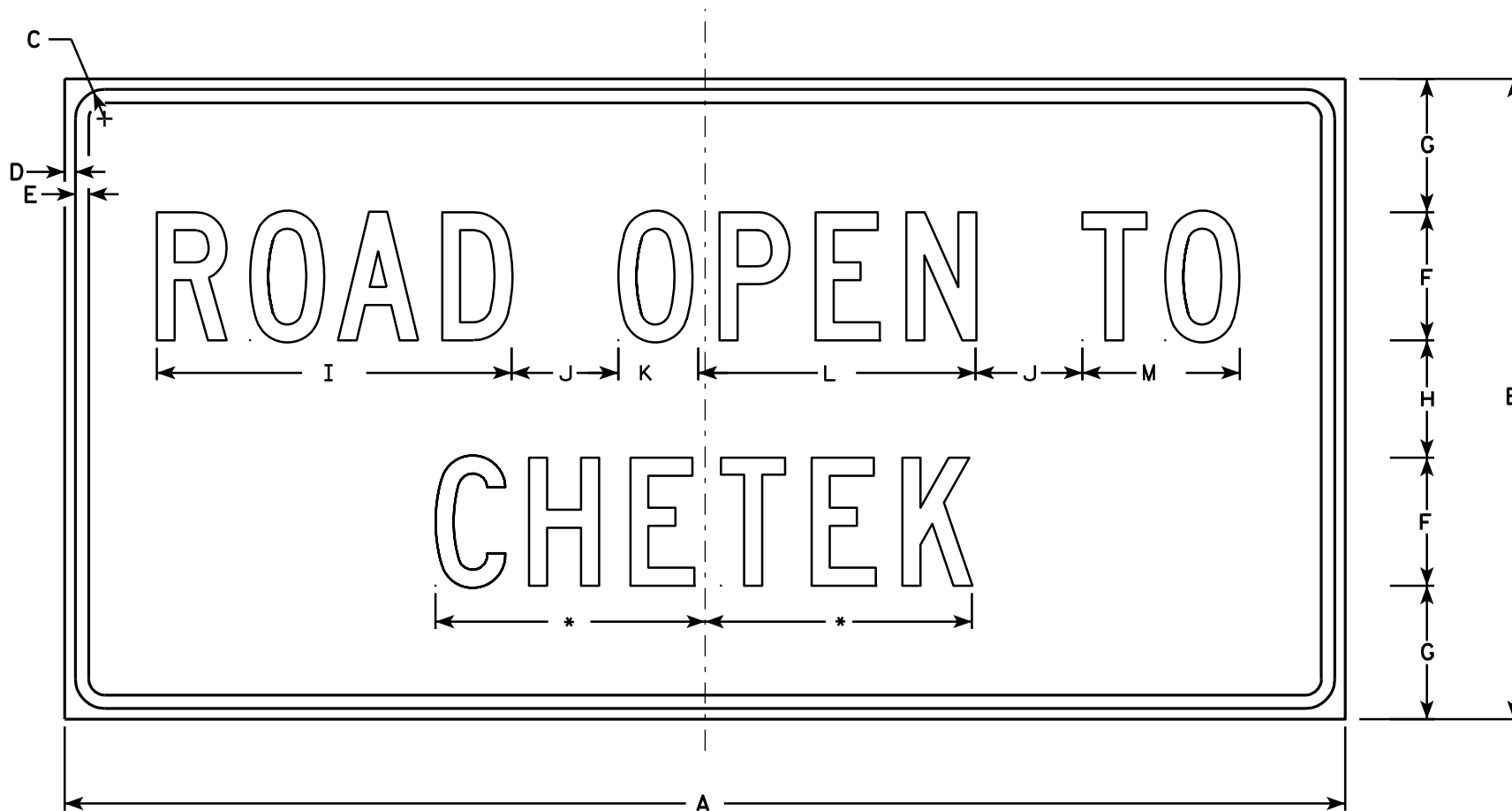
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18	24	1 1/8	3/8	1/2	3	1 1/2	2	1	3 1/8	6 3/8		5 1/4	2 1/8	5 3/4												3.0
2M	18	24	1 1/8	3/8	1/2	3	1 1/2	2	1	3 1/8	6 3/8		5 1/4	2 1/8	5 3/4												3.0
3																											
4									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

STANDARD SIGN
R9-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/4/2011 PLATE NO. R9-56.5



R10-61

*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 - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate message and optically 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	36	24	1 3/8	1/2	5/8	4	5 1/2	5	10 3/4	2	2 1/8	8 3/8	4 5/8														6.0
2S	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
2M	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
3																											
4																											
5																											

STANDARD SIGN R10-61	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/4/11	PLATE NO. R10-61.5

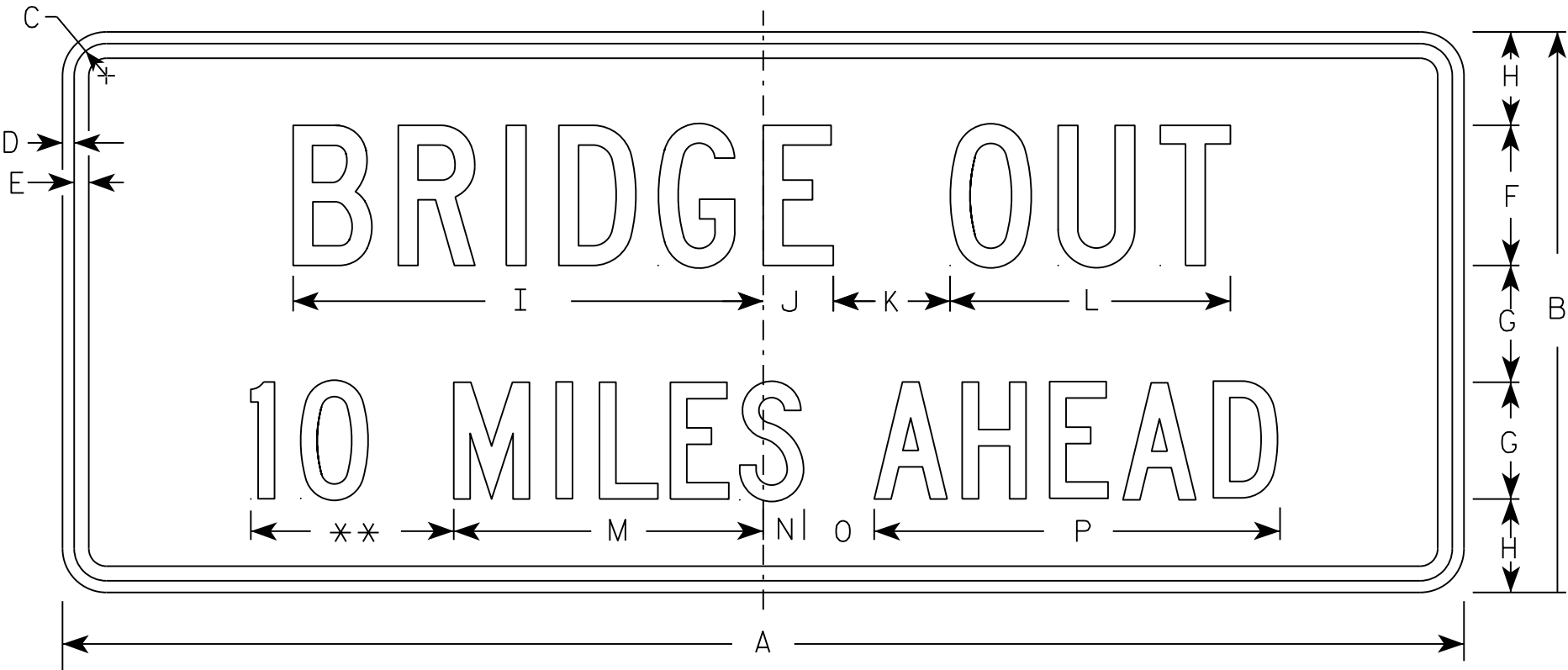
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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NOTES

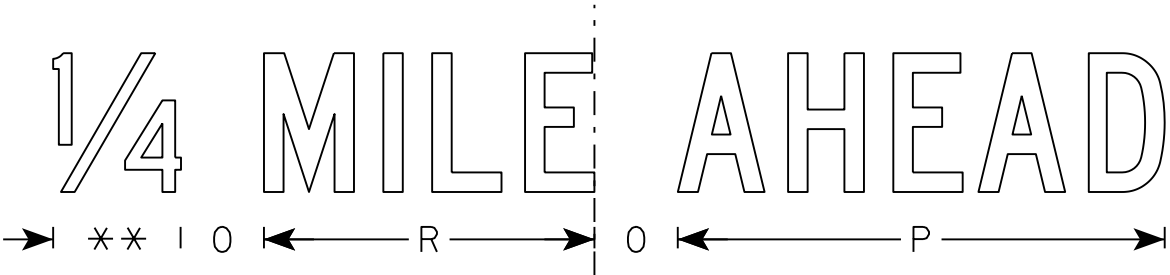
1. Sign is Type II - Type H Reflective
2. Color:

Background - White

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



R11-3C ** See Note 5



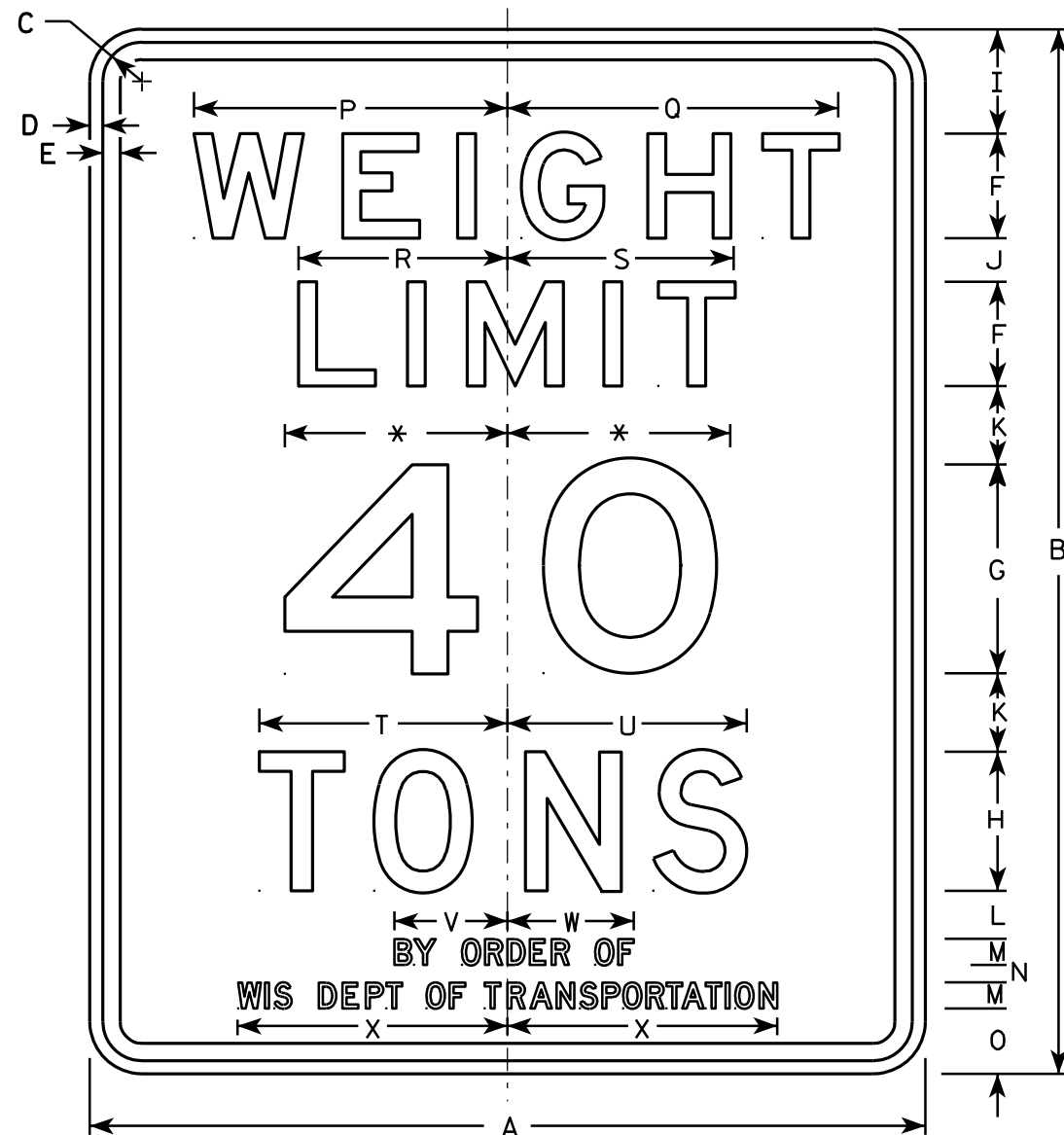
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	15	1 3⁄8	1⁄2	5⁄8	4	3	2 1⁄2	13 1⁄4	2 1⁄4	3	8	8	1 1⁄2	2	10 3⁄4		7 1⁄8									3.75
2S	60	24	1 3⁄8	1⁄2	5⁄8	6	5	4	20 1⁄8	3	5	12	13 1⁄4	1 3⁄4	3	17 3⁄8		11 7⁄8									10.0
2M	60	24	1 3⁄8	1⁄2	5⁄8	6	5	4	20 1⁄8	3	5	12	13 1⁄4	1 3⁄4	3	17 3⁄8		11 7⁄8									10.0
3																											
4																											
5																											

STANDARD SIGN
R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/28/16 PLATE NO. R11-3C.3



R12-1

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 - 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, 2 & 3 are series E
Lines 4, 5, & 6 are series D.
- 6. Substitute appropriate numeral and optically adjust spacing to achieve proper balance.
- 7. Substitute name of county or town on County Trunk and Town Highways respectively. Community name on City or Village Streets including Connecting Highways is optional.

* Varies (see note 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	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2S	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2M	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
3	36	48	1 3/8	1/2	5/8	6	10	8	4 1/2	2 1/2	2 1/4	1 1/2	3/4	1/2	3	13 1/2	14 1/4	9	9 3/4	10 5/8	10 1/4	3 1/4	3 5/8	7 3/4			12.0
4	48	60	2 1/4	3/4	1	6	12	8	6	2 1/2	4 1/2	2 3/4	1 1/2	1	3 3/4	18	19	12	13	14 1/4	13 3/4	6 1/2	7 1/4	15 1/2			20.0
5																											

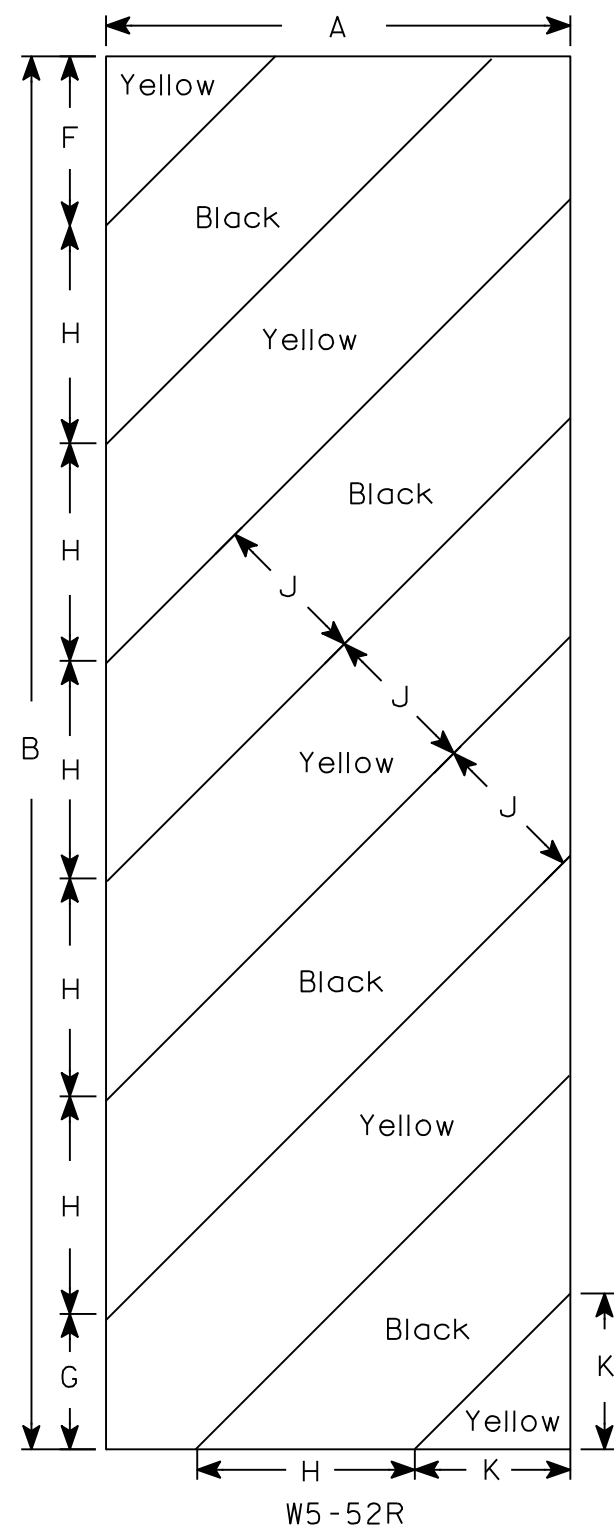
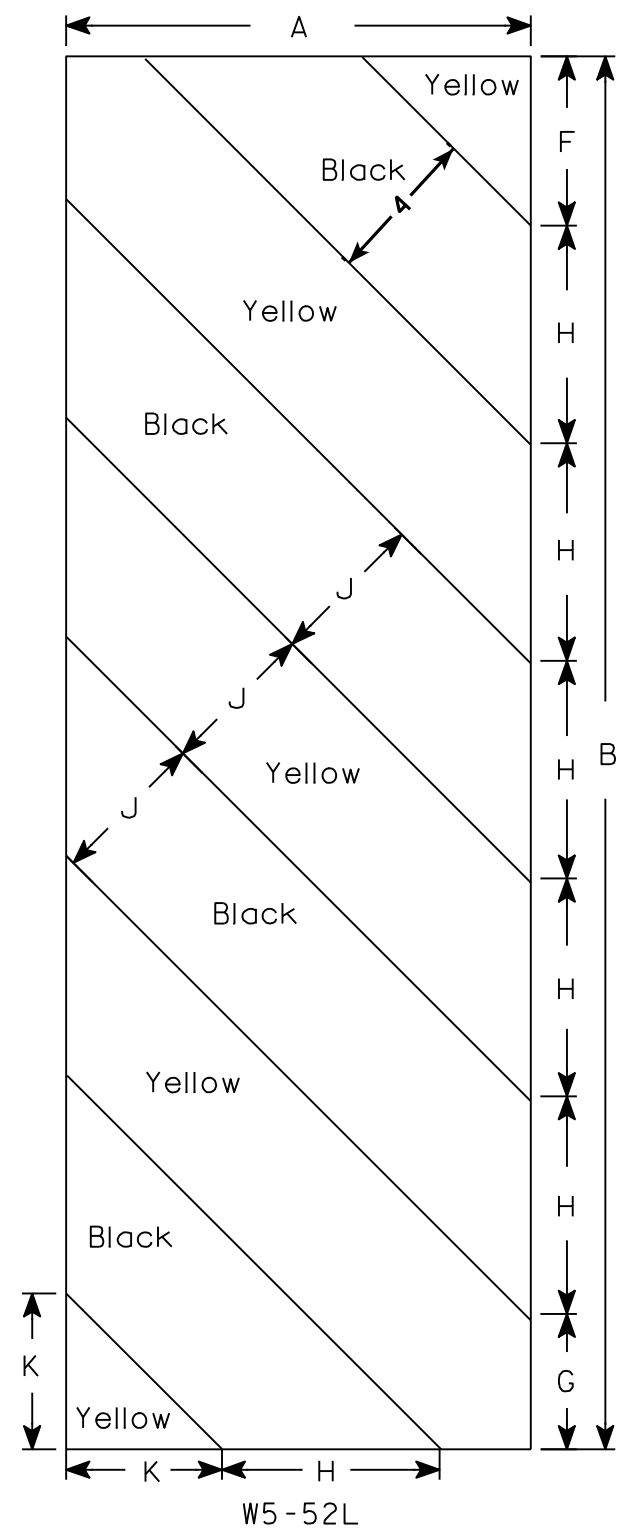
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

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.

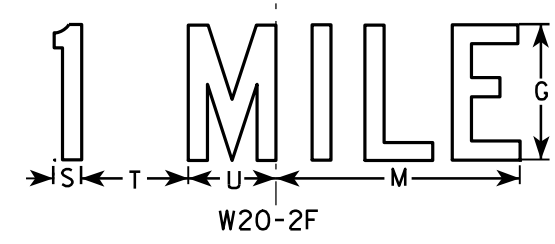
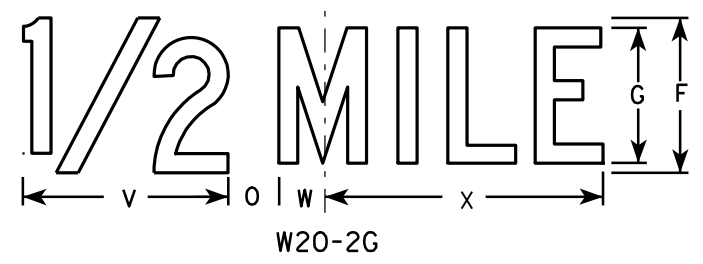
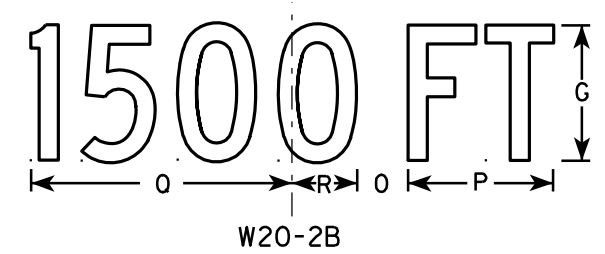
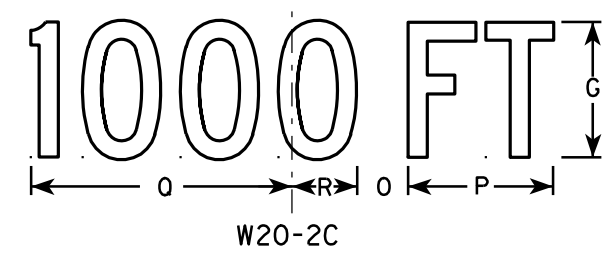
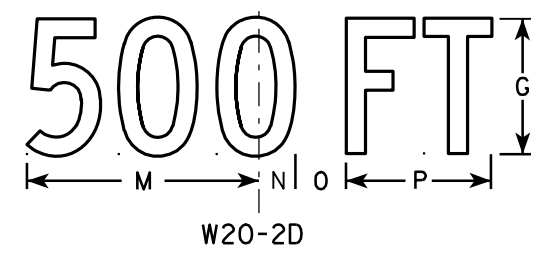
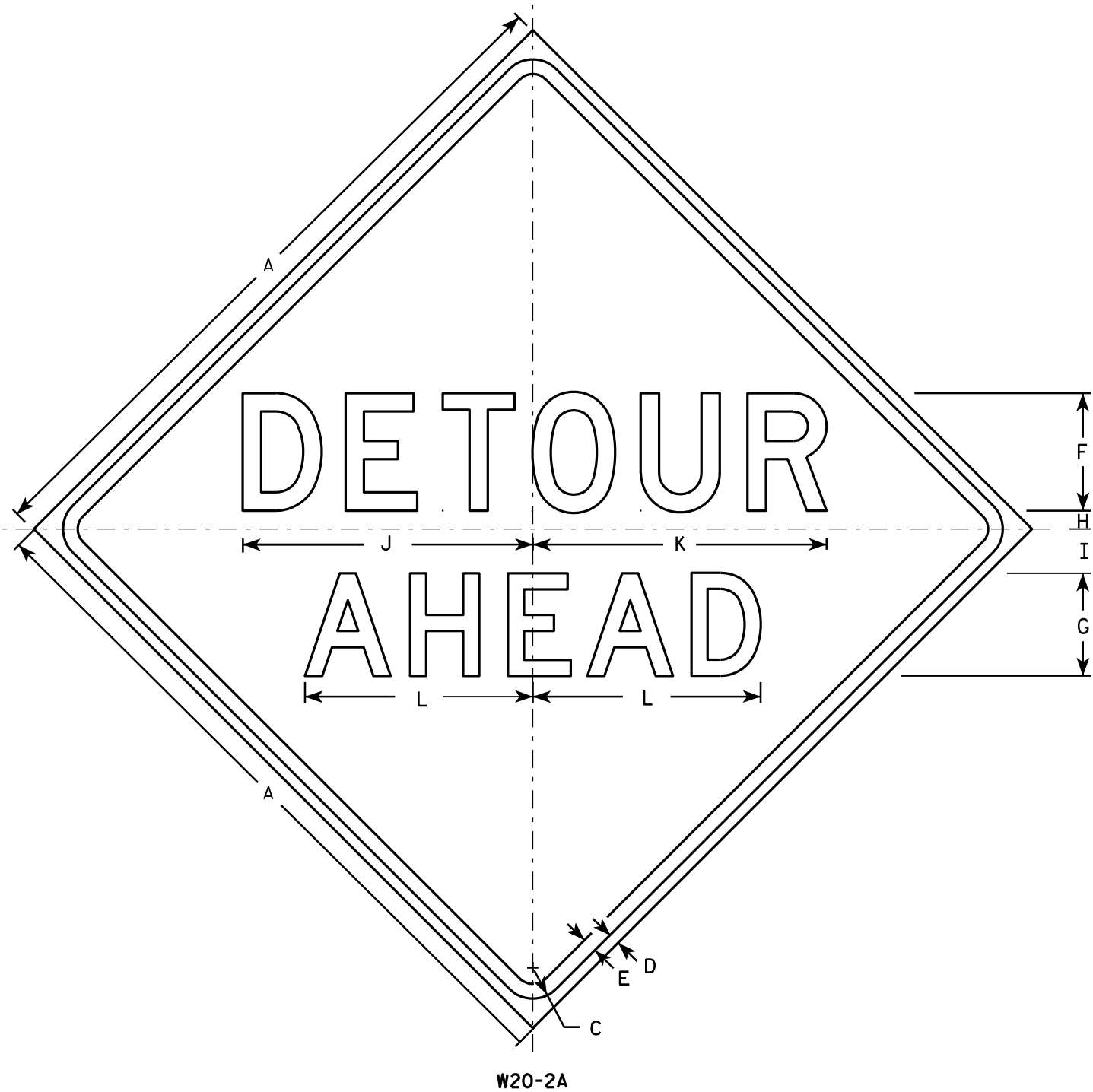
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
2M	12	36				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
3	18	54				6	5 1⁄2	8 1⁄2	45°	6	6 9⁄16																6.75
4																											
5																											

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 F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO:

HWY:

COUNTY:

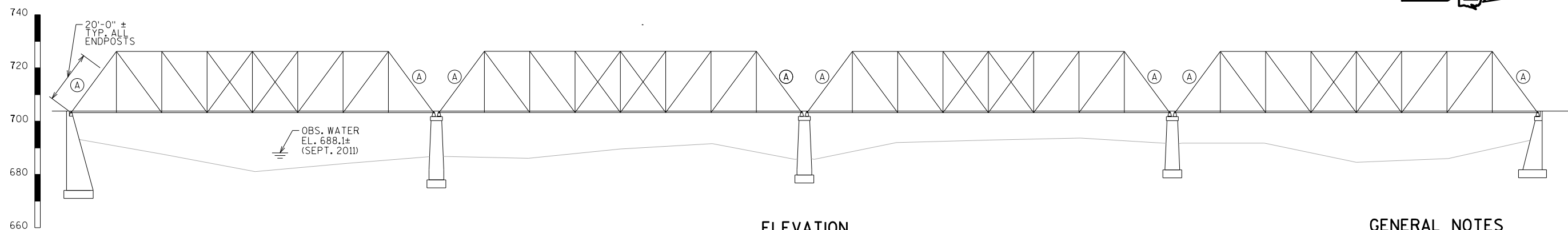
SHEET NO:

E

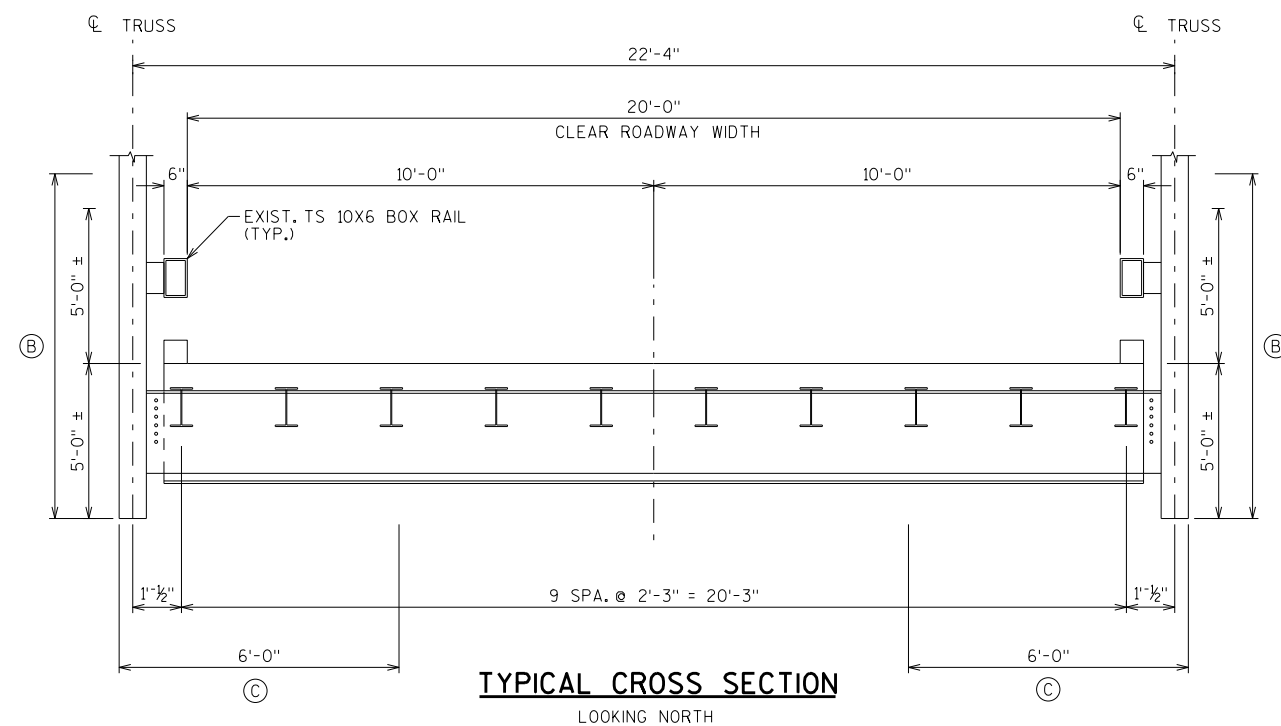
Plan view of the bridge showing spans, piers, and abutments. The bridge is oriented horizontally. Key features include:

- Spans:** Four spans, each 138'-0" long, separated by three piers. The total length from the back of the south abutment to the back of the north abutment is 553'-5".
- Piers:** Three piers are shown, labeled PIER 1, PIER 2, and PIER 3. Their stationing is STA. 24+51.71, STA. 25+89.71, and STA. 27+27.71, respectively.
- Abutments:** The bridge is supported by a South Abutment (BRG. S. ABUT. STA. 23+13.71) and a North Abutment (BRG. N. ABUT. STA. 28+65.71).
- Dimensions:** The width of the bridge deck is 20'-0" between the rails. The total width of the bridge, including the 8 1/2" wide sidewalks on both sides, is 29'-0".
- Other Labels:** The bridge is identified as "WISCONSIN RIVER" and "R. STH 130/133". The stationing for the ends of the deck is STA. 23+13.00 (South) and STA. 28+66.42 (North).

FOUR SPAN OVERHEAD STEEL TRUSS



LOOKING WEST



LOOKING NORTH

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
506.0105	STRUCTURAL STEEL CARBON	LB	1855
SPV.0060	RAILING ATTACHMENT SPECIAL B-52-0856	EA	4
SPV.0105	STRUCTURE SPOT CLEANING AND PAINTING STRUCTURE B-52-0856	LS	1
SPV.0105	STRUCTURAL STEEL REPAIR B-52-0856	LS	1

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE COLOR OF PAINT SHALL BE LIGHT GREY
(FEDERAL STANDARD COLOR NO. 26293)

ALL FIELD CONNECTIONS SHALL BE MADE
WITH $\frac{3}{4}$ " A325 HIGH-TENSILE STRENGTH
BOLTS UNLESS OTHERWISE NOTED OR SHOWN.

MATERIAL PROPERTIES:

STRUCTURAL CARBON STEEL
ASTM A709, GRADE 36 ————— $F_y = 36000$ PSI

TRAFFIC DATA:

A.D.T. = 2,200 (2009)
A.D.T. = 2,900 (2040)
R.D.S = 60 M.P.H.

SPOT CLEAN AND PAINT:

SPOT CLEAN AND PAINT:

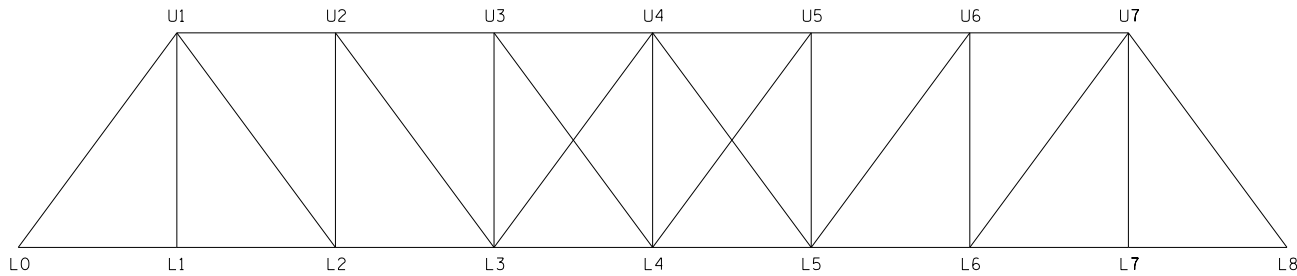
- (A) 20'-0" ± UP ALL ENDPSTS
(B) 5'-0" ± ABOVE AND BELOW DECK, ENTIRE LENGTH OF BRIDGE
(C) 6'-0" ± IN FROM TRUSS ON BOTH TRUSSES, ENTIRE LENGTH OF BRIDGE

STRUCTURE DESIGN CONTACTS:

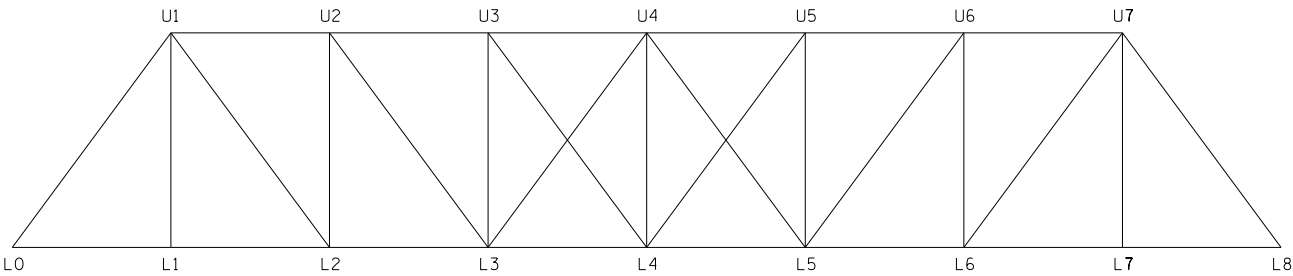
KELLY YOUNG	(608) 267-7943
AARON BONK	(608) 261-0261

1. GENERAL PLAN
2. STEEL REPAIRS 1
3. STEEL REPAIRS 2
4. CONNECTION REPAIR DETAILS
5. TRUSS MEMBER REPAIRS
6. GUSSET REPAIRS 1
7. GUSSET REPAIRS 2
8. GUSSET REPAIRS 3
9. THRIE BEAM ATTACHMENT

NO.	DATE	REVISION						BY	
		BUREAU OF STRUCTURES							
ACCEPTED		<i>William C. Dierker</i>						8/1/17	
		CHIEF STRUCTURES DESIGN ENGINEER						DATE	
STURCTURE B-52-856									
STH 130-STH 133 OVER WISCONSIN RIVER									
COUNTY	RICHLAND				TOWN	BUENA VISTA			
DESIGN SPEC. REHABILITATION N/A									
DESIGNED BY	KCY	DESIGNED CK'D.	SAD	DRAWN BY	KCY	PLANS CK'D.	SAD		
GENERAL PLAN & STRUCTURE PAINTING						SHEET 1 OF 9			

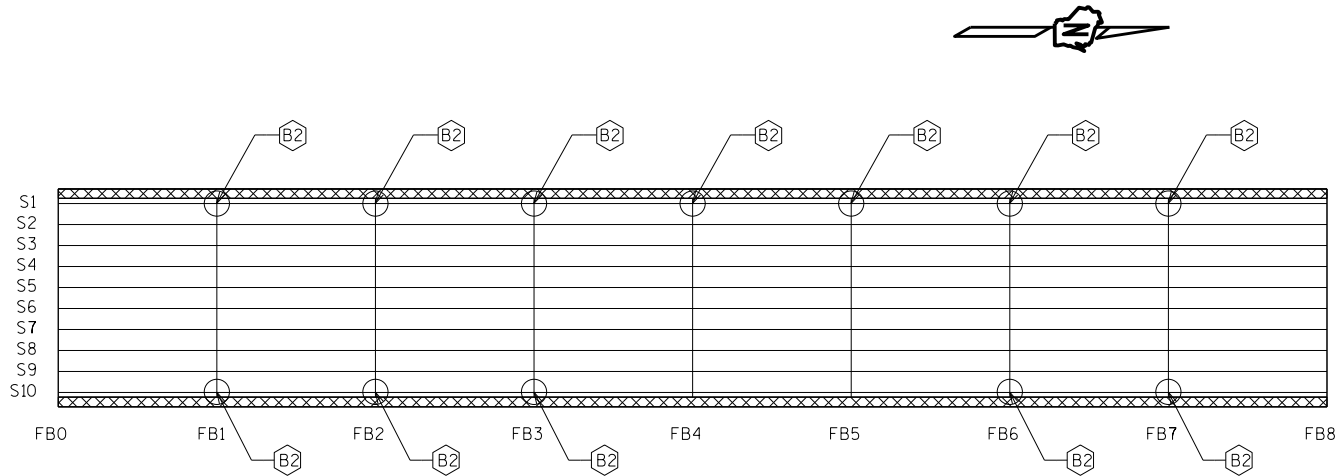


SPAN 1

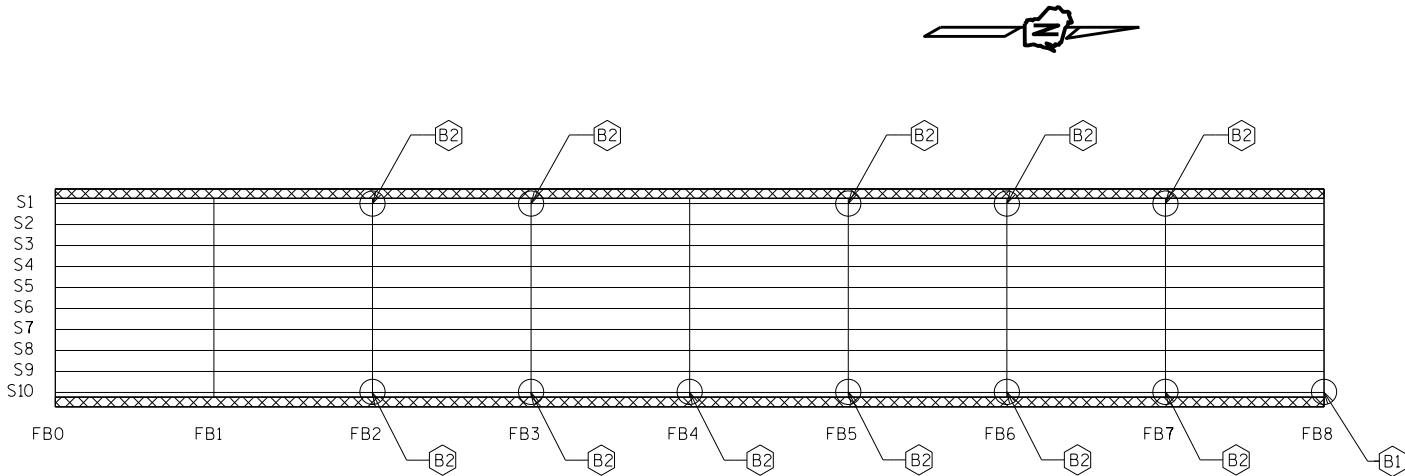


SPAN 2

WEST TRUSS

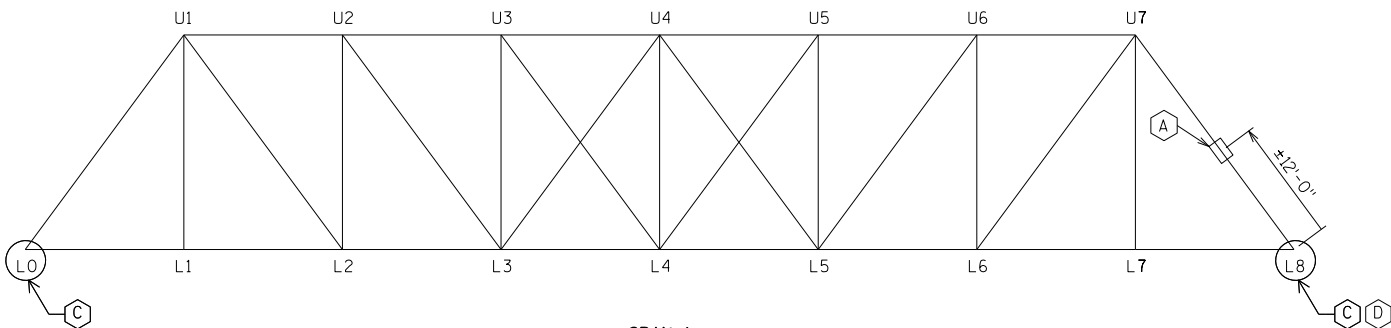


SPAN 1

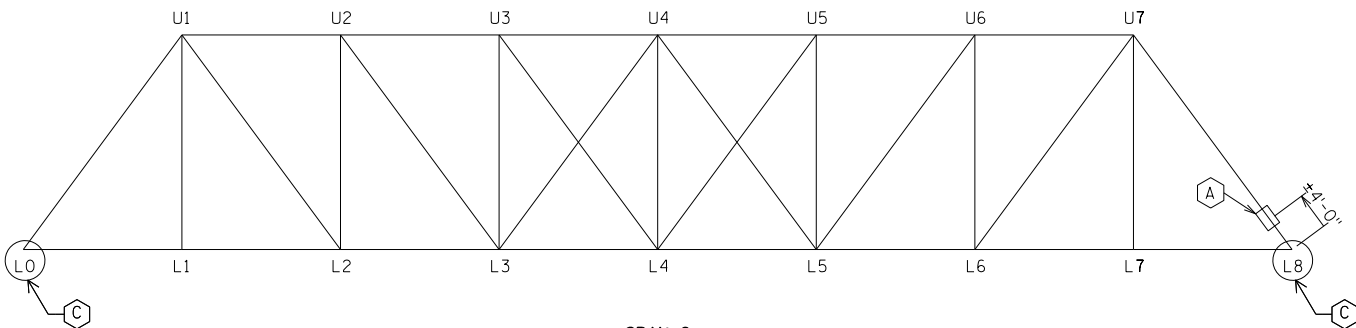


SPAN 2

PLAN



SPAN 1



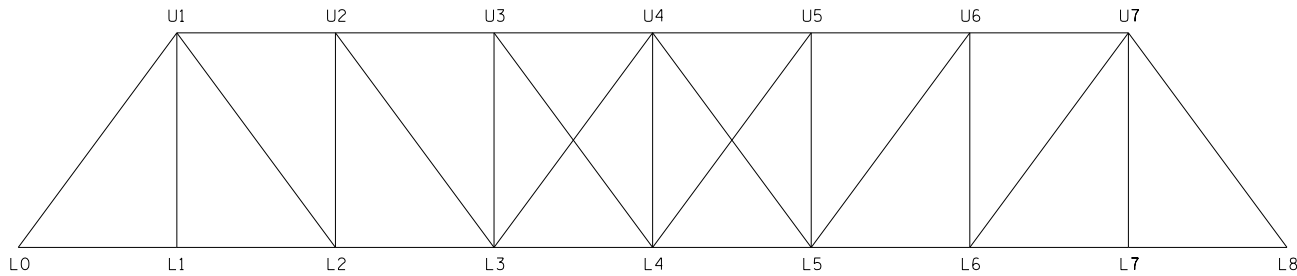
SPAN 2

EAST TRUSS

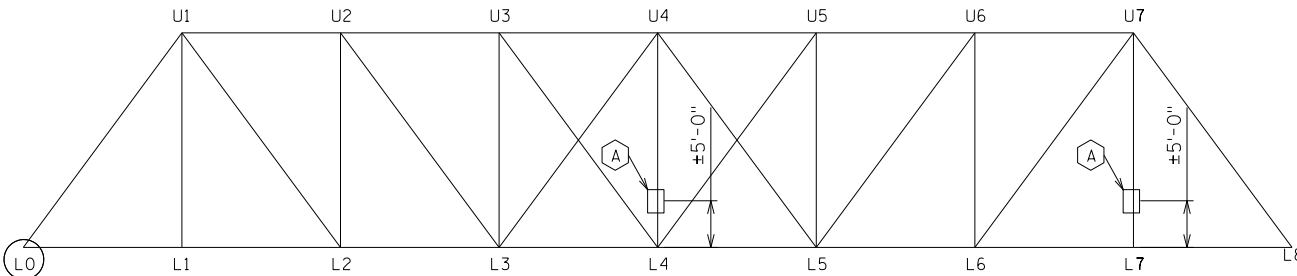
REHAB LEGEND

- (A) TRUSS MEMBER STRENGTHENING, SEE "TRUSS MEMBER REPAIRS" SHEET FOR DETAILS
- (B1) EXTERIOR FLOORBEAM CONNECTION REPAIR, SEE "CONNECTION REPAIR DETAILS" SHEET FOR DETAILS
- (B2) INTERIOR FLOORBEAM CONNECTION REPAIR, SEE "CONNECTION REPAIR DETAILS" SHEET FOR DETAILS
- (C) GUSSET REPAIR (BEARING), SEE "GUSSET REPAIRS 1" & "GUSSET REPAIRS 2" SHEET FOR DETAILS
- (D) GUSSET REPAIR (BOTTOM CHORD TO ENDPST), SEE "GUSSET REPAIRS 3" SHEET FOR DETAILS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
DRAWN BY KCY		PLANS CK'D. SAD	
STEEL REPAIRS		SHEET 2	
1			

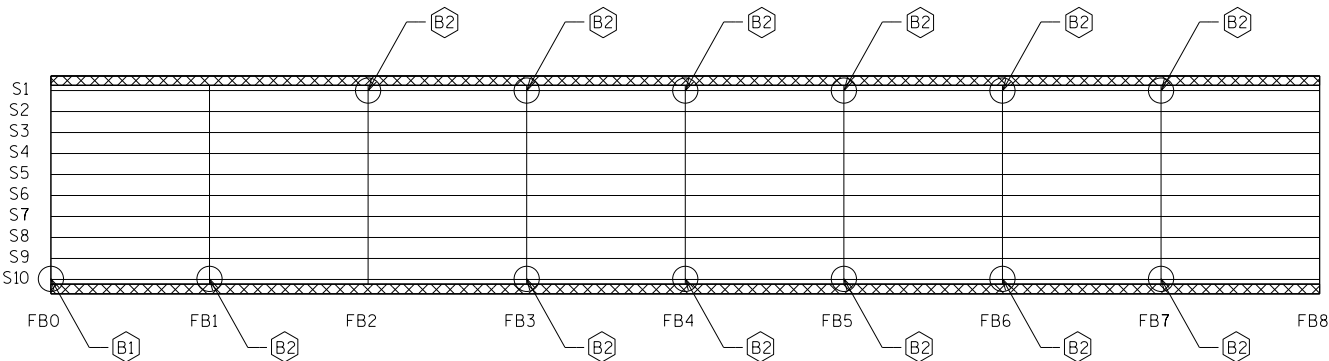


SPAN 3

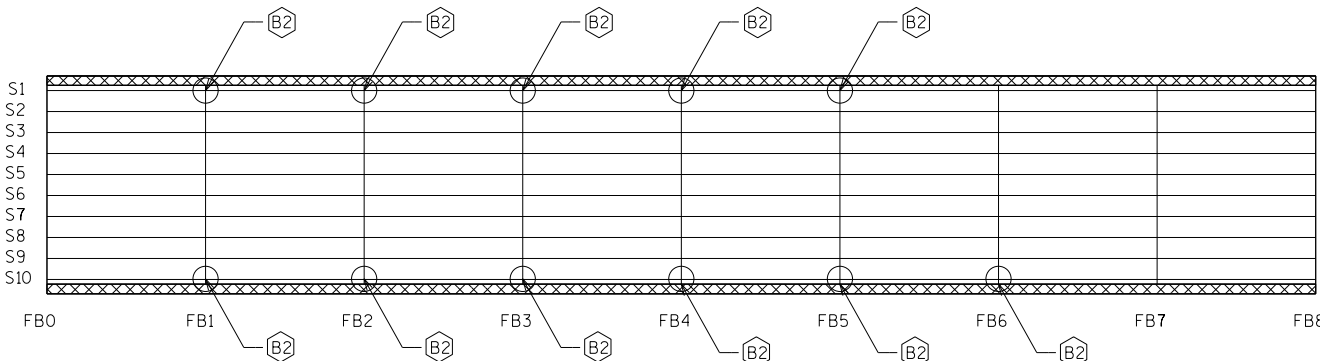


SPAN 4

WEST TRUSS

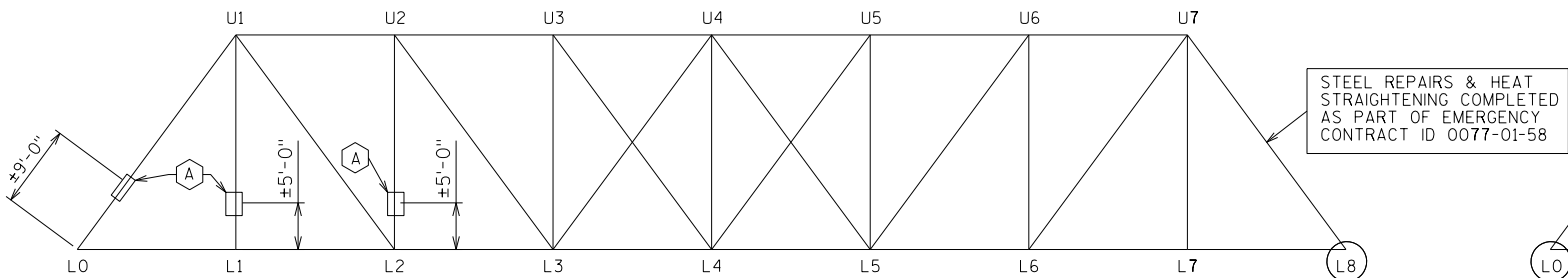


SPAN 3

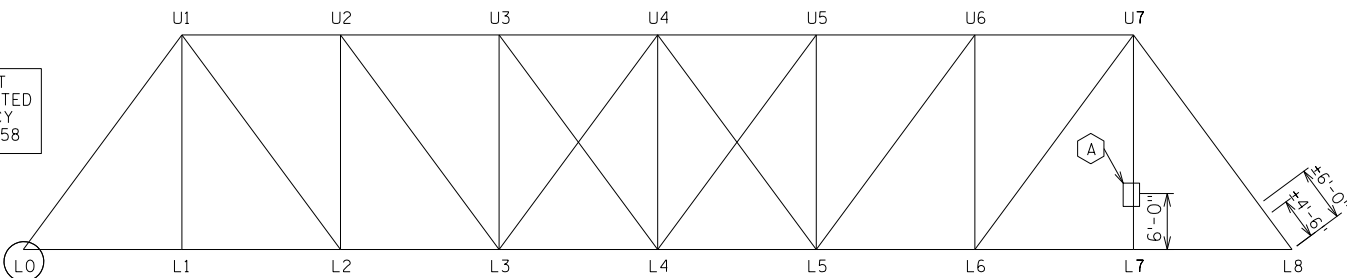


SPAN 4

PLAN



SPAN 3



SPAN 4

EAST TRUSS

REHAB LEGEND

- (A) TRUSS MEMBER STRENGTHENING, SEE "TRUSS MEMBER REPAIRS" SHEET FOR DETAILS
- (B1) EXTERIOR FLOORBEAM CONNECTION REPAIR, SEE "CONNECTION REPAIR DETAILS" SHEET FOR DETAILS
- (B2) INTERIOR FLOORBEAM CONNECTION REPAIR, SEE "CONNECTION REPAIR DETAILS" SHEET FOR DETAILS
- (C) GUSSET REPAIR (BEARING), SEE "GUSSET REPAIRS" SHEET FOR DETAILS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
DRAWN BY KCY		PLANS CK'D. SAD	
STEEL REPAIRS 2		SHEET 3	

NOTES

DRAWING NOT TO SCALE.

RIVET HOLES AND GENERAL DIMENSIONS SHOULD BE VERIFIED PRIOR TO PLATE AND ANGLE FABRICATION.

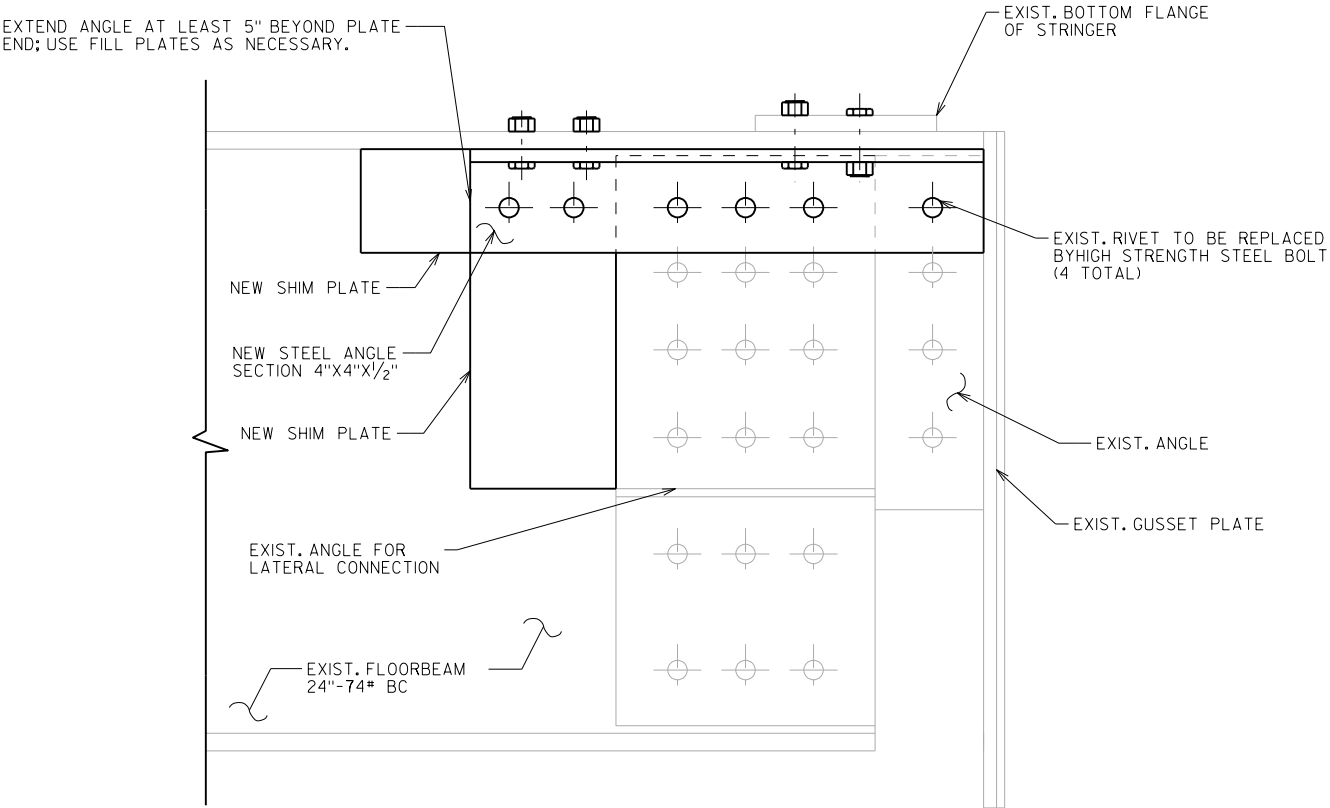
EXISTING RIVET SHALL BE REMOVED AND REPLACED WITH 3/4" DIAMETER A325 HIGH STRENGTH BOLTS.

A STOP HOLE SHALL BE DRILLED AT THE END OF ANY CRACK FOUND. GRIND DEFECTS SMOOTH, ENSURING THERE ARE NO NOTCHES.

ALL NEW PLATES TO BE SHOP PAINTED WITH A THREE COAT PAINT SYSTEM FROM THE DEPARTMENT'S APPROVED PRODUCTS LIST FOR "STRUCTURE OVERCOATING, CLEANING AND PRIMING". THE COLOR OF THE FINAL COAT SHALL BE LIGHT GREY (FEDERAL STANDARD COLOR NO. 26293). AFTER INSTALLATION, IF ANY TOUCH UPS ARE REQUIRED, THEY SHALL BE COMPLETED AT NO COST AS DIRECTED BY THE ENGINEER.

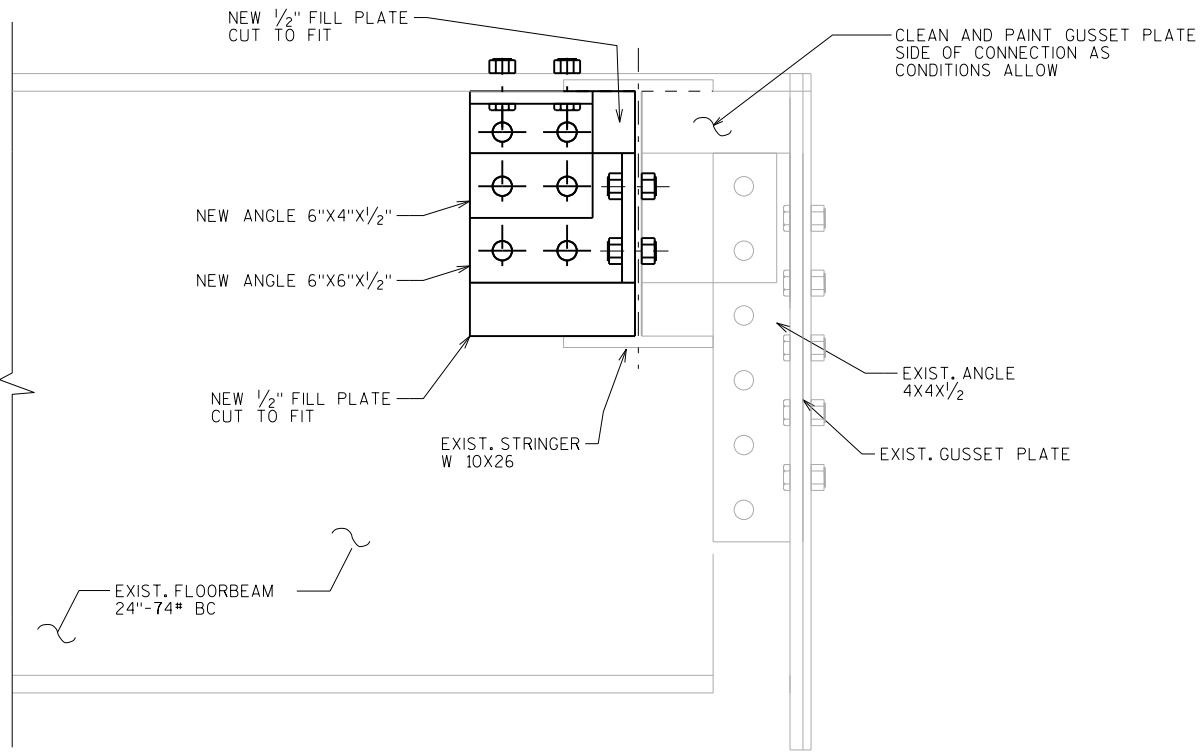
BOLT SPACING SHALL ADHERE TO THE FOLLOWING DIMENSIONAL REQUIREMENTS:

MINIMUM EDGE DISTANCE = 1 1/4"
MINIMUM BOLT (CENTER TO CENTER) SPACING = 2 1/4"
MAXIMUM BOLT (CENTER TO CENTER) SPACING = 6"



EXTERIOR FLOORBEAM REPAIR DETAIL

CONNECTION DETAIL BASED ON PHOTOS FROM THE FIELD



INTERIOR FLOORBEAM REPAIR DETAIL

CONNECTION DETAIL BASED ON PHOTOS FROM THE FIELD

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
DRAWN BY		KCY	PLANS CK'D. SAD
CONNECTION REPAIR DETAILS		SHEET 4	

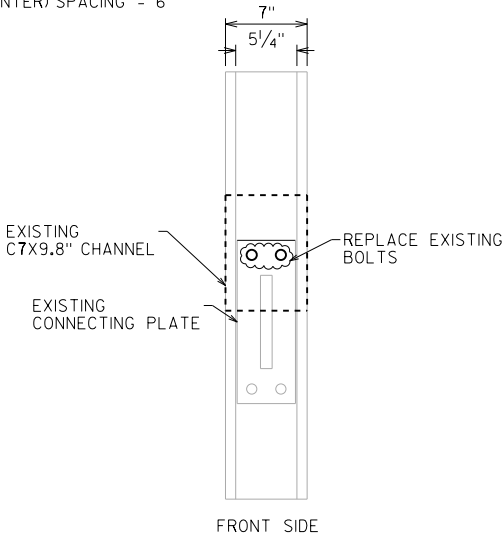
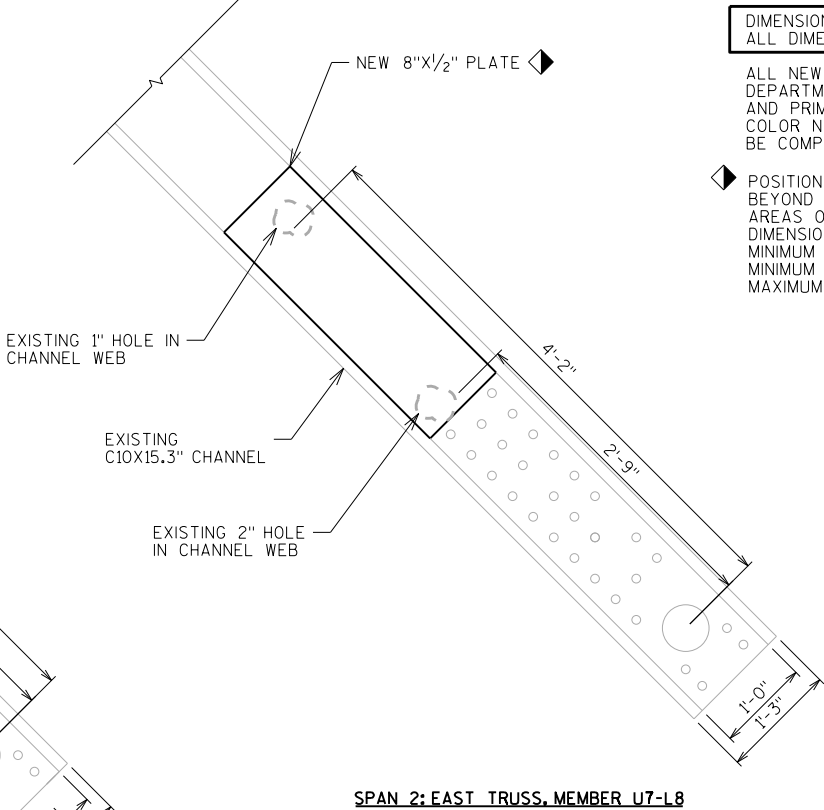
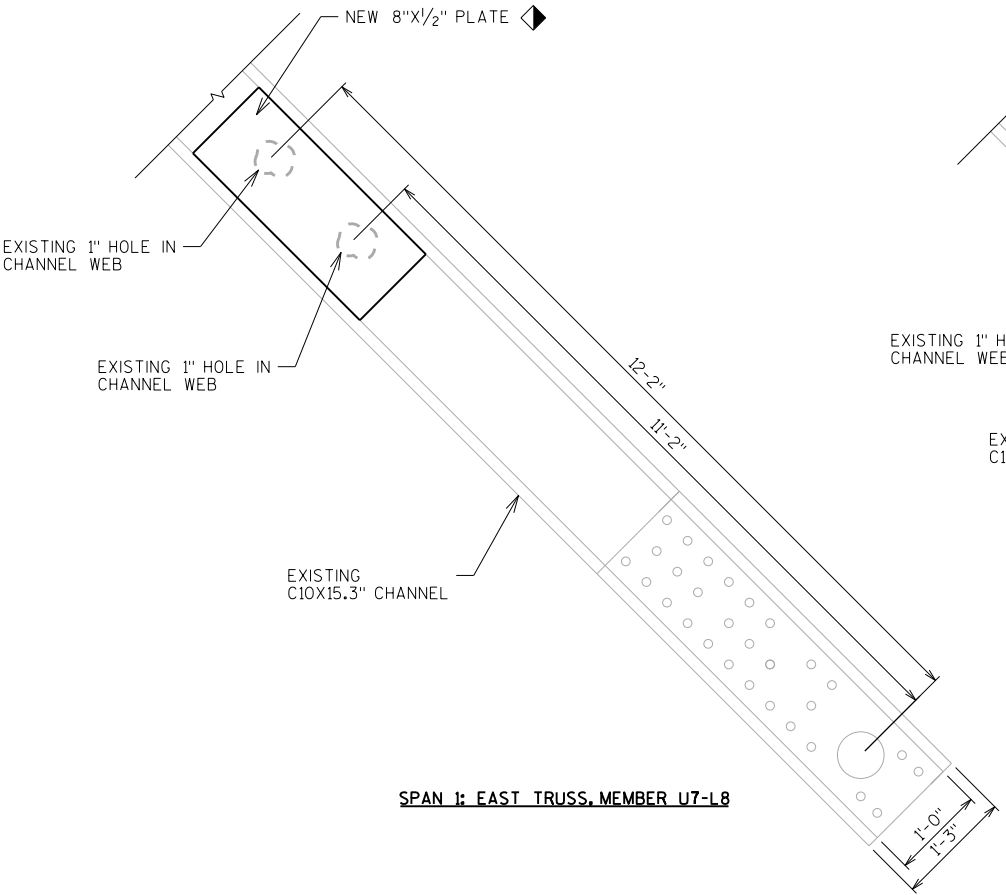
NOTES

DRAWINGS NOT TO SCALE.

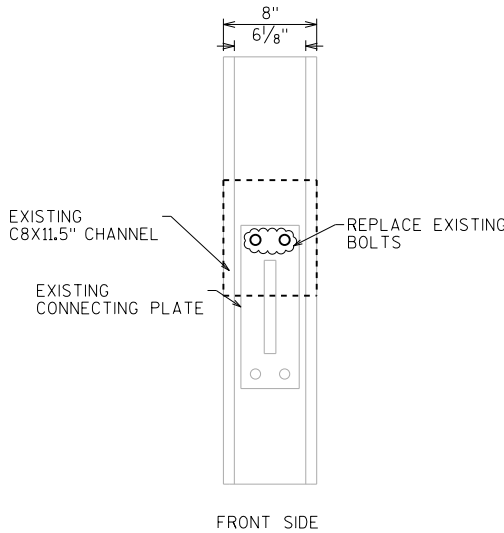
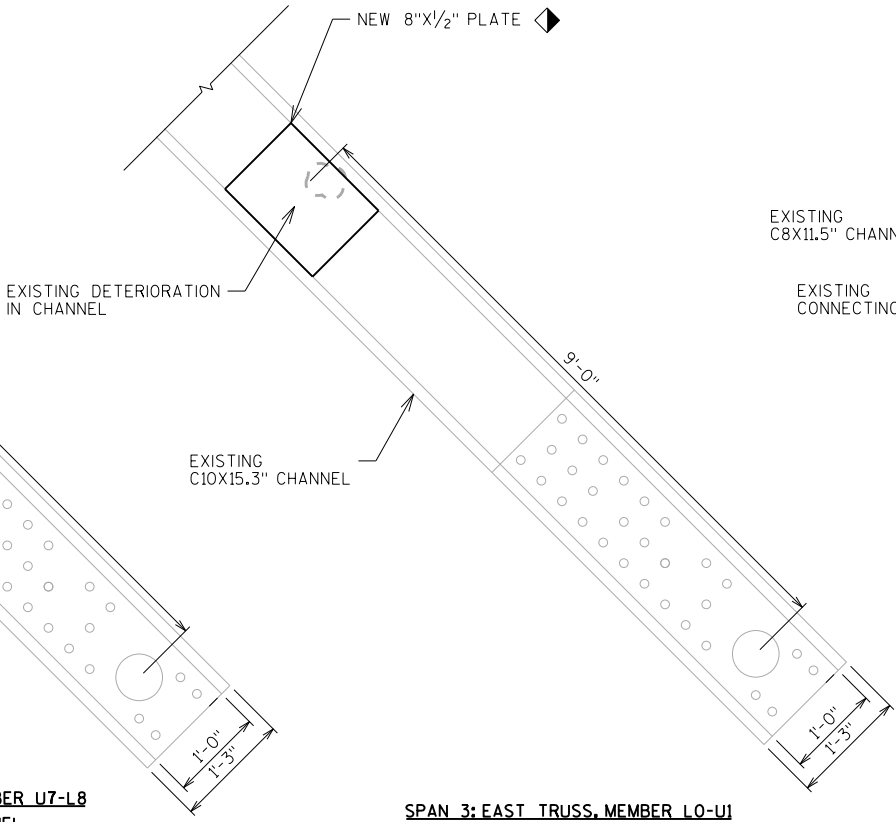
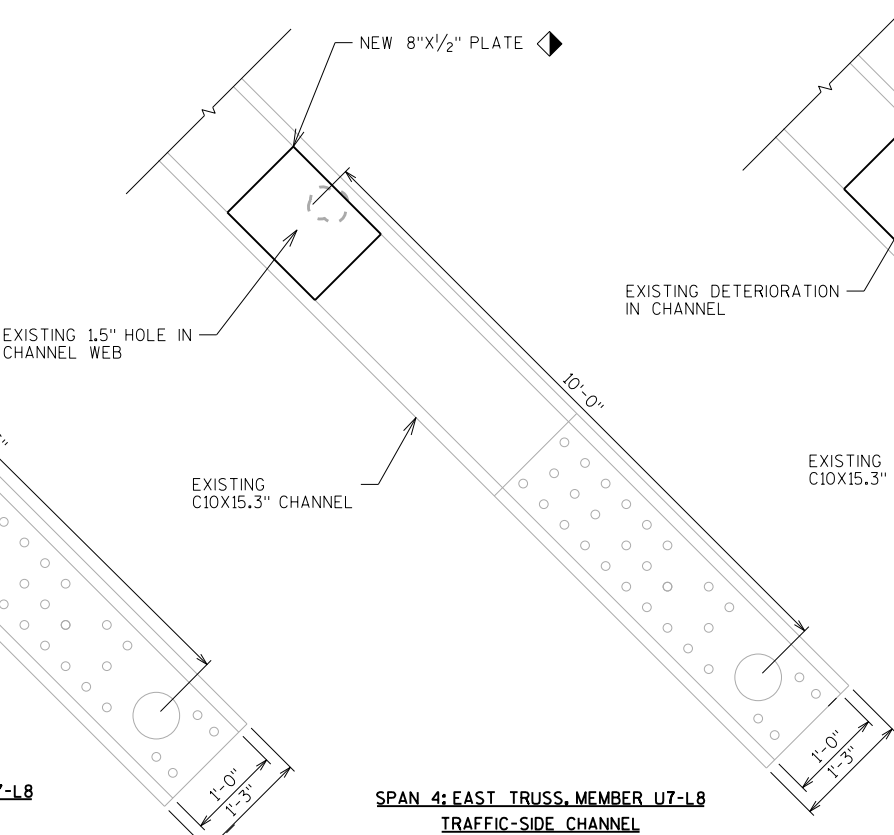
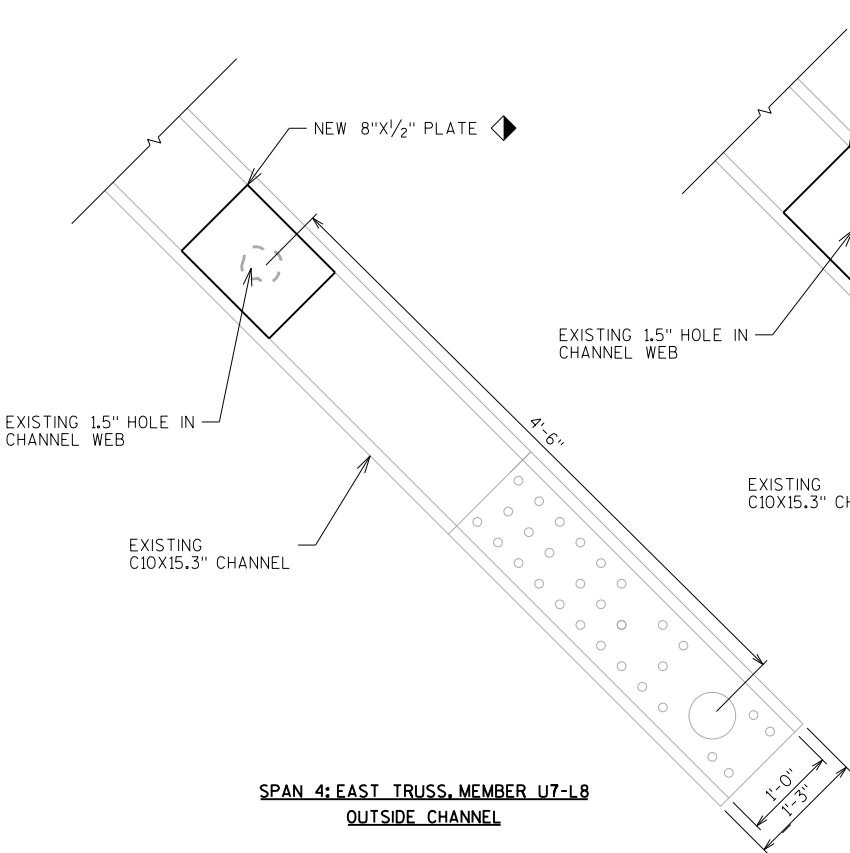
DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD MEASUREMENTS.
ALL DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE FABRICATION.

ALL NEW PLATES TO BE SHOP PAINTED WITH A THREE COAT PAINT SYSTEM FROM THE DEPARTMENT'S APPROVED PRODUCTS LIST FOR "STRUCTURE OVERCOATING CLEANING AND PRIMING". THE COLOR OF THE FINAL COAT SHALL BE LIGHT GREY (FEDERAL STANDARD COLOR NO. 26293). AFTER INSTALLATION, IF ANY TOUCH UPS ARE REQUIRED, THEY SHALL BE COMPLETED AT NO COST AS DIRECTED BY THE ENGINEER.

- POSITION PLATE TO COVER NOTED AREAS OF SECTION LOSS, EXTENDING AT LEAST 3" BEYOND DETERIORATED SECTION. BOLTS SHALL BE POSITIONED TO AVOID HOLES AND AREAS OF SEVERE DETERIORATION. BOLT SPACING SHALL ADHERE TO THE FOLLOWING DIMENSIONAL REQUIREMENTS:
MINIMUM EDGE DISTANCE = $\frac{1}{4}$ "
MINIMUM BOLT (CENTER TO CENTER) SPACING = $2\frac{1}{4}$ "
MAXIMUM BOLT (CENTER TO CENTER) SPACING = 6"



SPAN 3 EAST TRUSS, MEMBER U1-L1
SPAN 4 WEST TRUSS, MEMBER U4-L4
SPAN 4 WEST TRUSS, MEMBER U7-L7
SPAN 4 EAST TRUSS, MEMBER U7-L7



SPAN 3 EAST TRUSS, MEMBER U2-L2

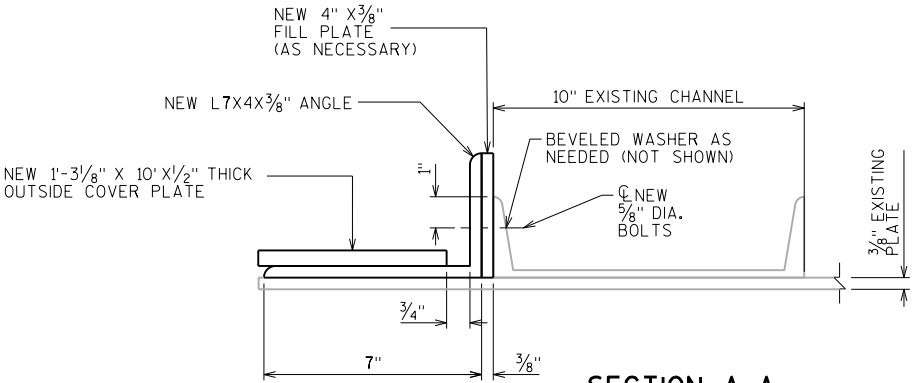
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
		DRAWN BY	PLANS CK'D. SAD
TRUSS MEMBER REPAIRS		SHEET 5	

SHEAR/REMOVE
END/OUTSIDE EXISTING
RIVET

CUT LINE



PLAN VIEW OF EXISTING ANGLE



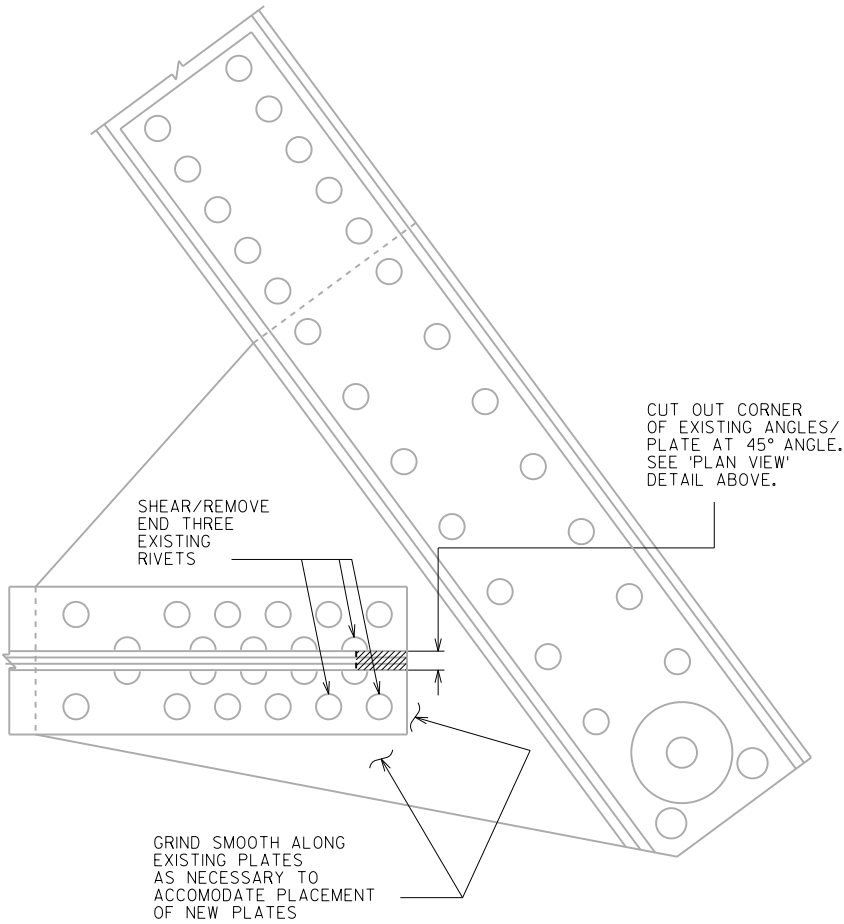
SECTION A-A

NOTES

DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD MEASUREMENTS.
ALL DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE AND ANGLE FABRICATION.

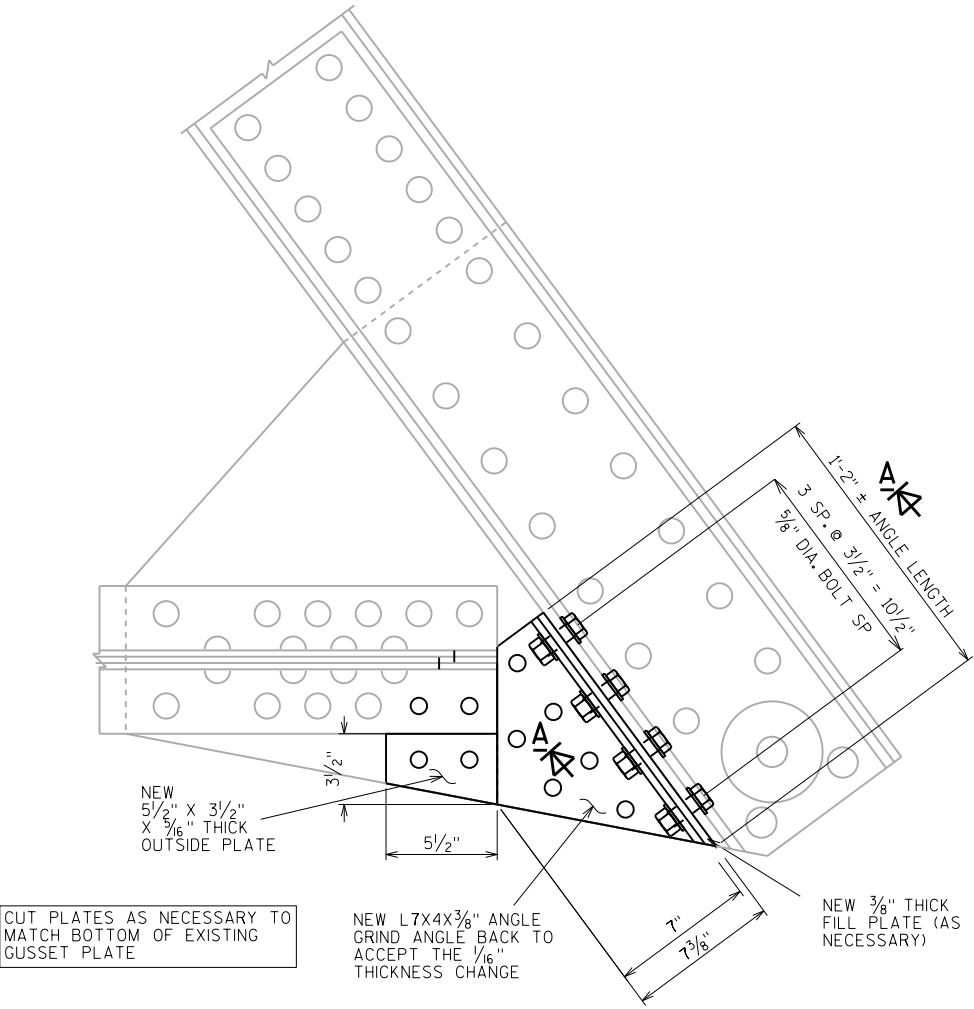
ALL FIELD CONNECTIONS SHALL BE MADE WITH FRICTION TYPE HIGH-TENSILE
STRENGTH BOLTS UNLESS SHOWN OR OTHERWISE NOTED.

ALL NEW PLATES TO BE SHOP PAINTED WITH A THREE COAT PAINT SYSTEM FROM THE
DEPARTMENT'S APPROVED PRODUCTS LIST FOR "STRUCTURE OVERCOATING CLEANING
AND PRIMING". THE COLOR OF THE FINAL COAT SHALL BE LIGHT GREY (FEDERAL STANDARD
COLOR NO. 26293). AFTER INSTALLATION, IF ANY TOUCH UPS ARE REQUIRED, THEY SHALL
BE COMPLETED AT NO COST AS DIRECTED BY THE ENGINEER.



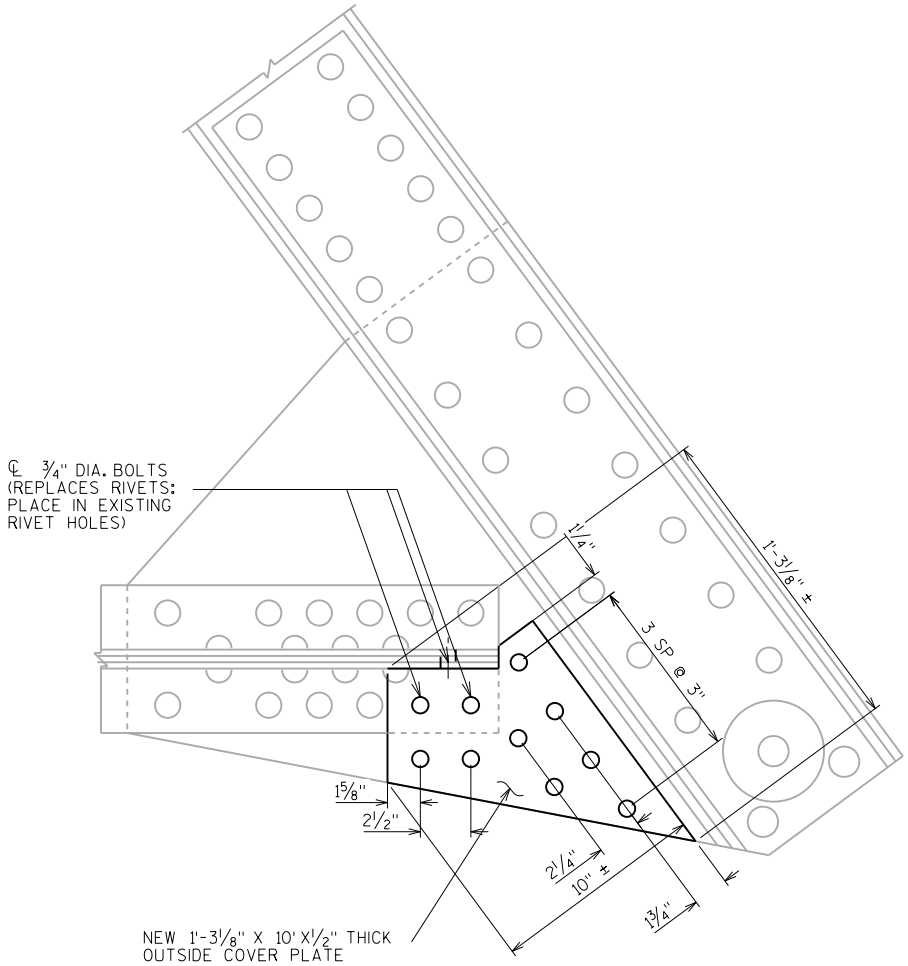
EXISTING GUSSET PLATE DETAIL AT TRUSS ENDS

(OUTSIDE VIEW - SHOWING REMOVAL AREAS)



NEW 3/8" THICK PLATE DETAIL

SEE DETAIL AT RIGHT FOR BOLT HOLE DIMENSIONS



NEW 1/2" THICK PLATE DETAIL

ALL NEW BOLTS NOT LABELED ARE 5/8" DIA. BOLTS

FIXED BEARING REPAIR

SPAN 1: EAST TRUSS, LO (INSIDE & OUTSIDE GUSSET PLATE)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
DRAWN BY		KCY	PLANS CK'D. SAD
GUSSET REPAIRS 1		SHEET 6	

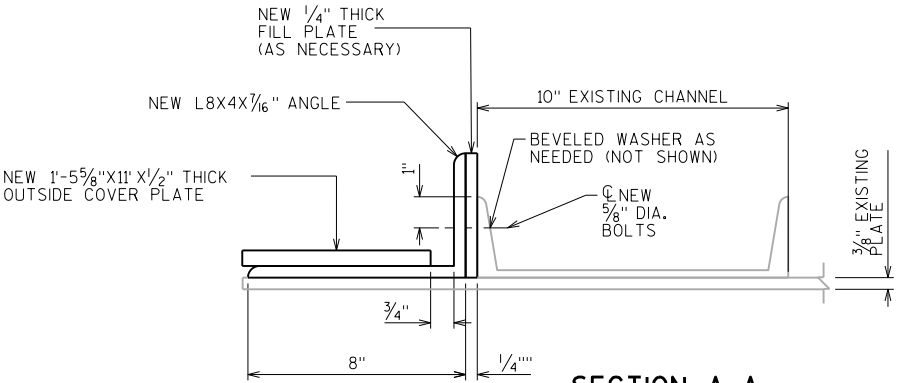
SCALE = 0.50

SHEAR/REMOVE
END/OUTSIDE EXISTING
RIVET

CUT LINE



PLAN VIEW OF EXISTING ANGLE



SECTION A-A

NOTES

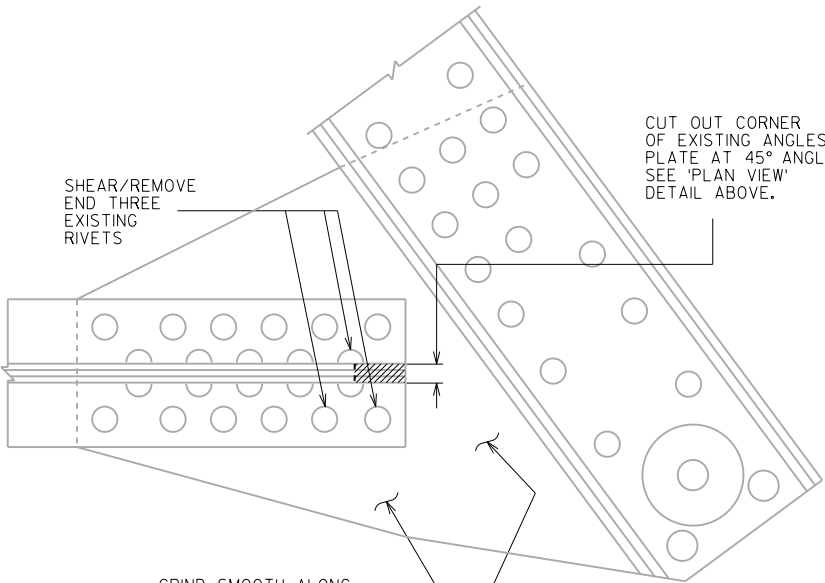
DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD MEASUREMENTS. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE AND ANGLE FABRICATION.

ALL FIELD CONNECTIONS SHALL BE MADE WITH FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR OTHERWISE NOTED.

ALL NEW PLATES TO BE SHOP PAINTED WITH A THREE COAT PAINT SYSTEM FROM THE DEPARTMENT'S APPROVED PRODUCTS LIST FOR "STRUCTURE OVERCOATING CLEANING AND PRIMING". THE COLOR OF THE FINAL COAT SHALL BE LIGHT GREY (FEDERAL STANDARD COLOR NO. 26293). AFTER INSTALLATION, IF ANY TOUCH UPS ARE REQUIRED, THEY SHALL BE COMPLETED AT NO COST AS DIRECTED BY THE ENGINEER.

SHEAR/REMOVE
END THREE
EXISTING
RIVETS

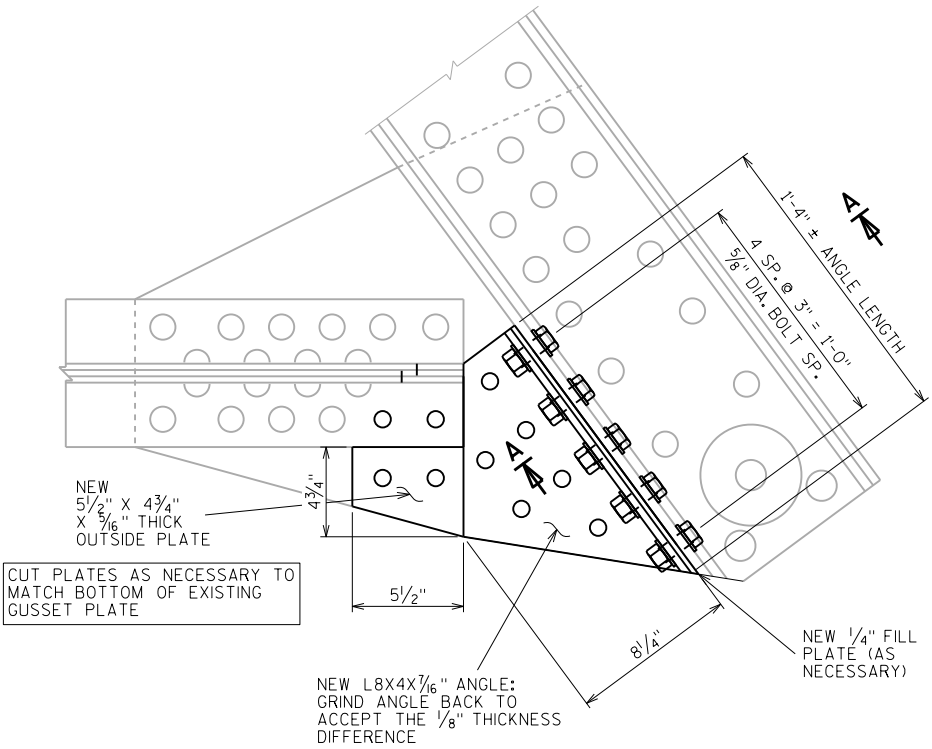
CUT OUT CORNER
OF EXISTING ANGLES/
PLATE AT 45° ANGLE.
SEE 'PLAN VIEW'
DETAIL ABOVE.



GRIND SMOOTH ALONG
EXISTING PLATES
AS NECESSARY TO
ACCOMMODATE PLACEMENT
OF NEW PLATES

EXISTING GUSSET PLATE DETAIL AT TRUSS ENDS

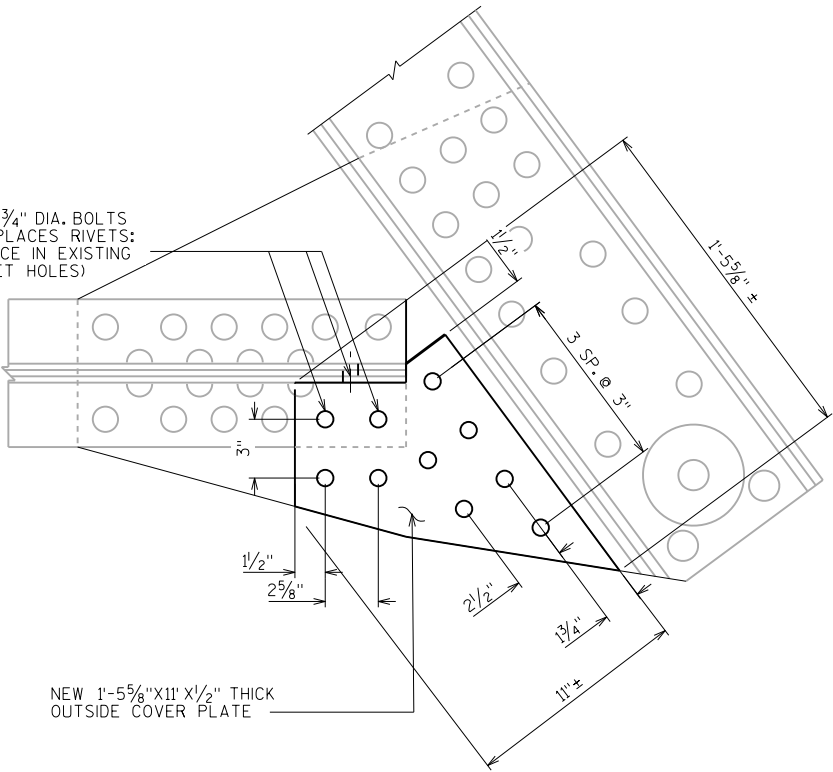
(OUTSIDE VIEW - SHOWING REMOVAL AREAS)



NEW 5/16" PLATE & 7/16" THICK ANGLE DETAIL

SEE DETAIL AT RIGHT FOR BOLT HOLE DIMENSIONS

3/4" DIA. BOLTS
(REPLACES RIVETS;
PLACE IN EXISTING
RIVET HOLES)



NEW 1/2" THICK PLATE DETAIL

ALL NEW BOLTS NOT LABELED ARE 5/8" DIA. BOLTS

EXPANSION BEARING REPAIR

- SPAN 1: EAST TRUSS, L8 (OUTSIDE GUSSET PLATE ONLY)
- SPAN 2: EAST TRUSS, L0 (INSIDE & OUTSIDE GUSSET PLATE)
- SPAN 2: EAST TRUSS, L8 (INSIDE & OUTSIDE GUSSET PLATE)
- SPAN 3: WEST TRUSS, L0 (INSIDE & OUTSIDE GUSSET PLATE)
- SPAN 3: EAST TRUSS, L8 (INSIDE & OUTSIDE GUSSET PLATE)
- SPAN 4: EAST TRUSS, L0 (INSIDE & OUTSIDE GUSSET PLATE)

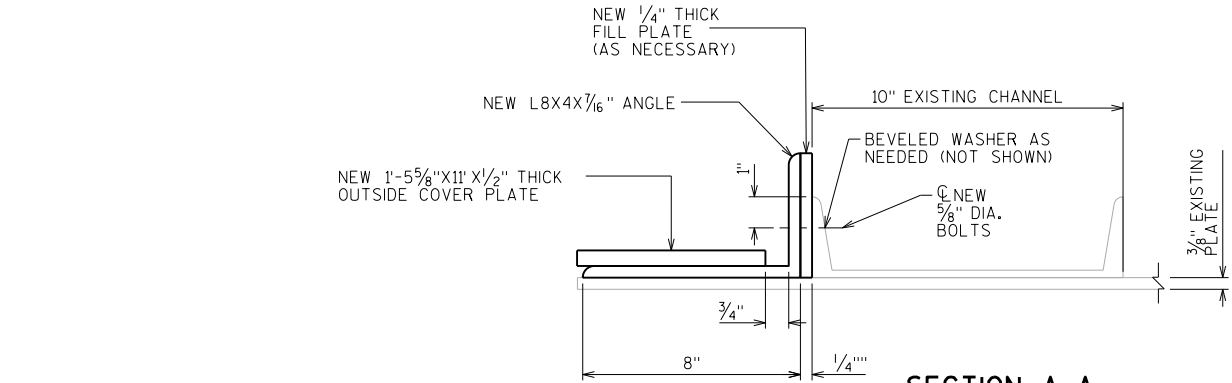
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
DRAWN BY		KCY	PLANS CK'D. SAD
GUSSET REPAIRS 2		SHEET 7	

NOTES

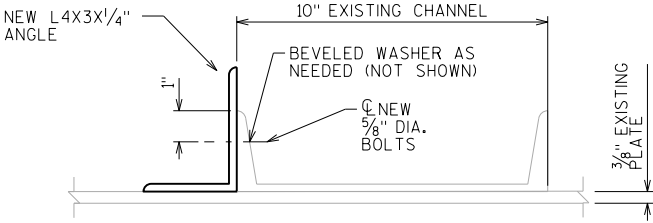
DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD MEASUREMENTS. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE AND ANGLE FABRICATION.

ALL FIELD CONNECTIONS SHALL BE MADE WITH FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR OTHERWISE NOTED.

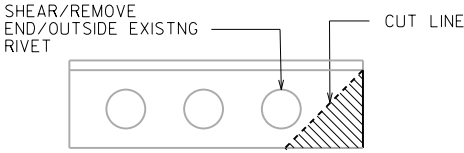
ALL NEW PLATES TO BE SHOP PAINTED WITH A THREE COAT PAINT SYSTEM FROM THE DEPARTMENT'S APPROVED PRODUCTS LIST FOR "STRUCTURE OVERCOATING CLEANING AND PRIMING". THE COLOR OF THE FINAL COAT SHALL BE LIGHT GREY (FEDERAL STANDARD COLOR NO. 26293). AFTER INSTALLATION, IF ANY TOUCH UPS ARE REQUIRED, THEY SHALL BE COMPLETED AT NO COST AS DIRECTED BY THE ENGINEER.



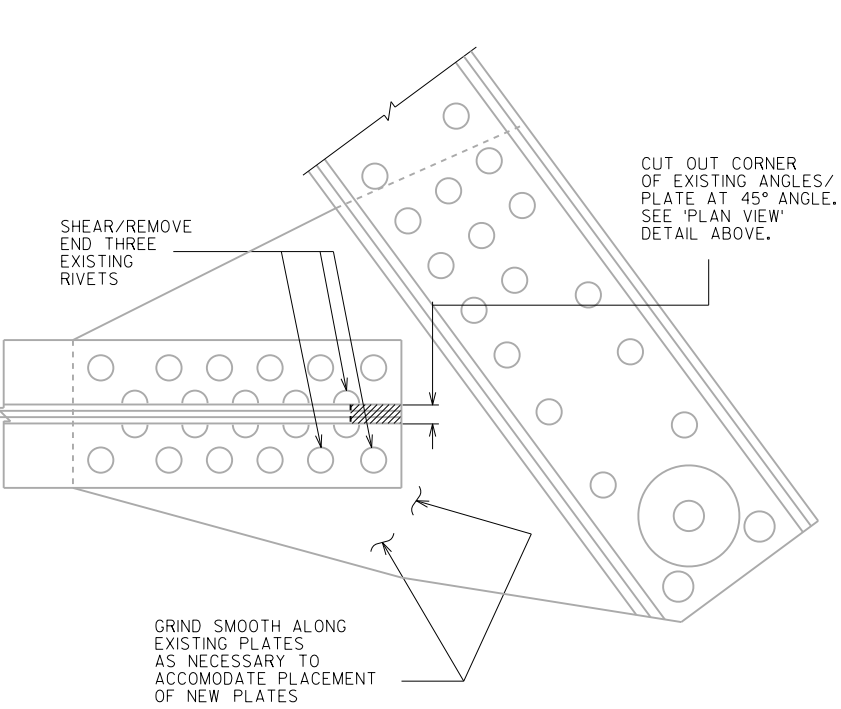
SECTION A-A



SECTION B-B

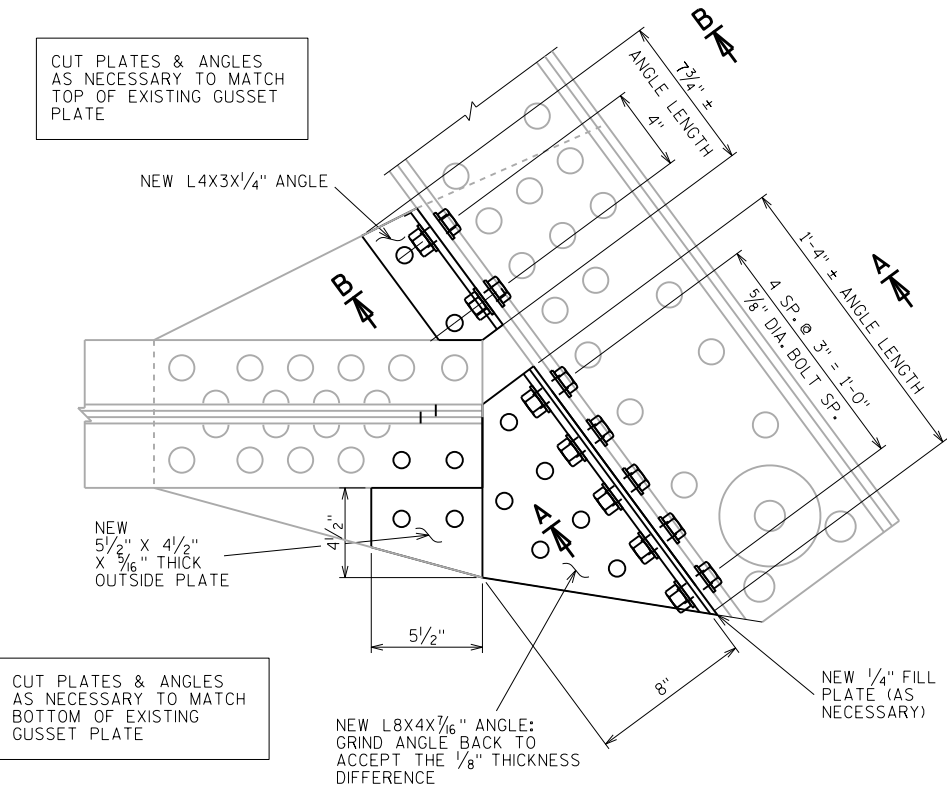


PLAN VIEW OF EXISTING ANGLE



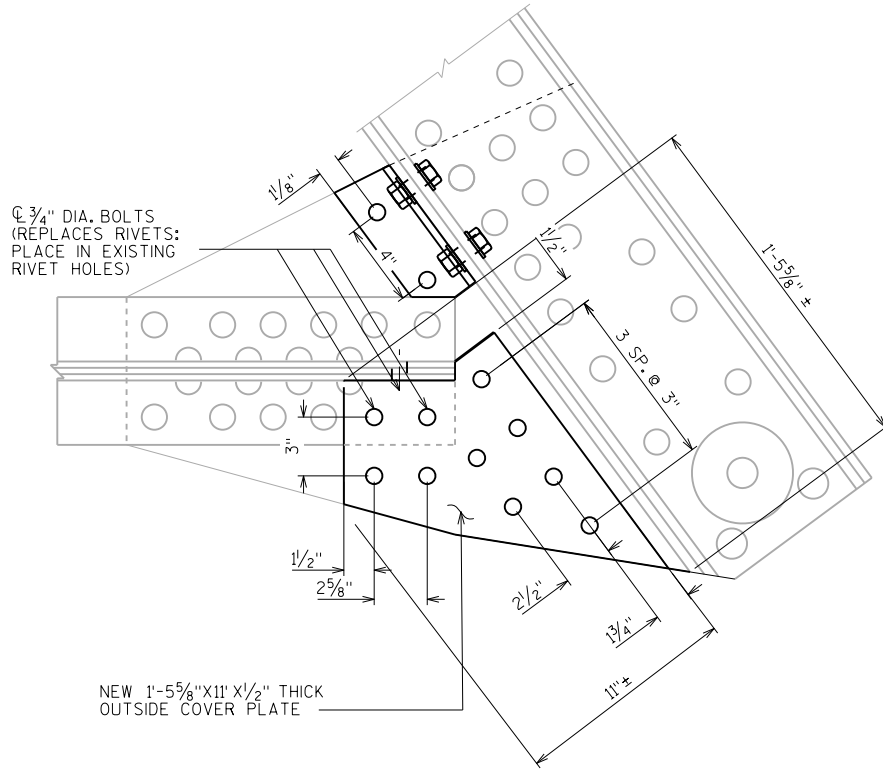
EXISTING GUSSET PLATE DETAIL AT TRUSS ENDS

SHOWING REMOVAL AREAS



NEW 5/16" PLATE & 7/16" THICK ANGLE DETAIL

SEE DETAIL AT RIGHT FOR BOLT HOLE DIMENSIONS



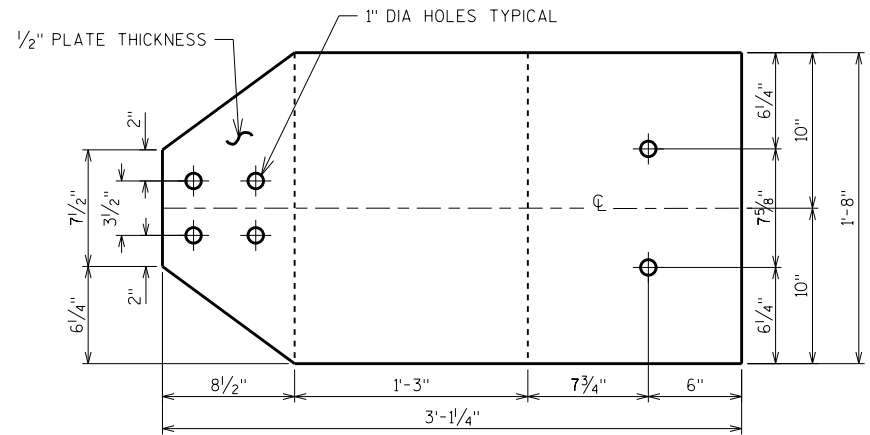
NEW 1/2" THICK PLATE DETAIL

ALL NEW BOLTS NOT LABELED ARE 5/8" DIA. BOLTS

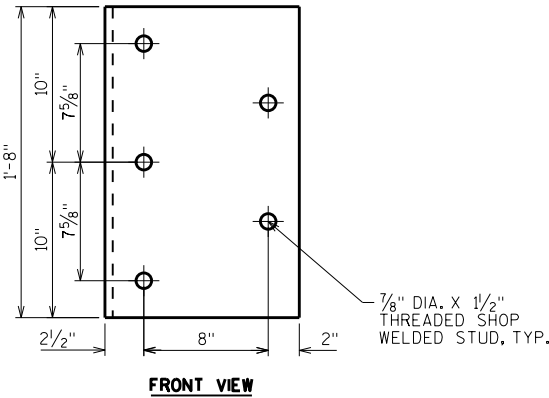
GUSSET REPAIR - BOTTOM CHORD TO ENDPST & BEARING

SPAN 1: EAST TRUSS, L8 (INSIDE GUSSET PLATE ONLY)

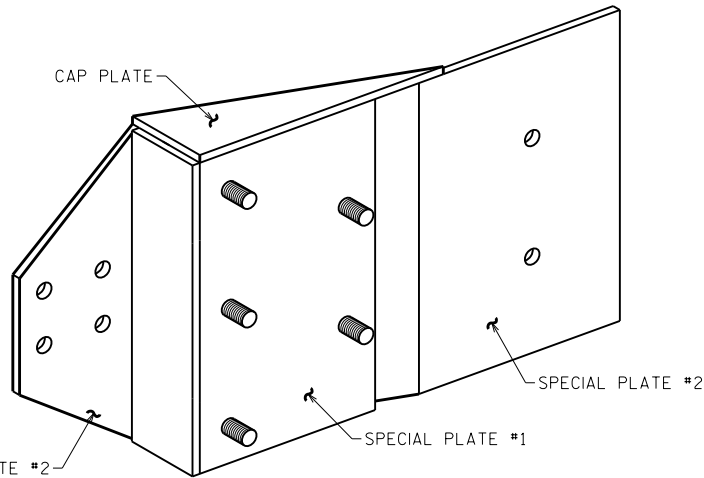
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
DRAWN BY		KCY	PLANS CK'D. SAD
GUSSET REPAIRS 3		SHEET 8	



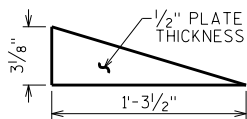
SPECIAL PLATE #2



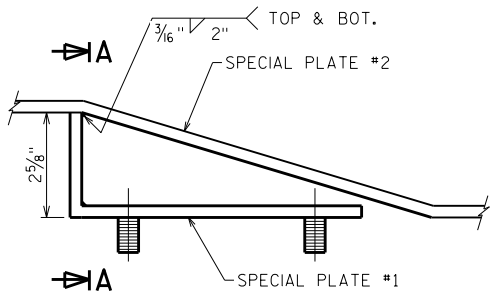
SPECIAL PLATE #1



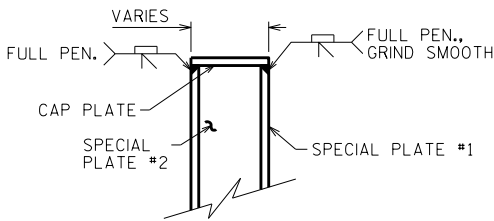
ISOMETRIC VIEW



CAP PLATE



PLAN DETAIL



SECTION A-A

GENERAL NOTES

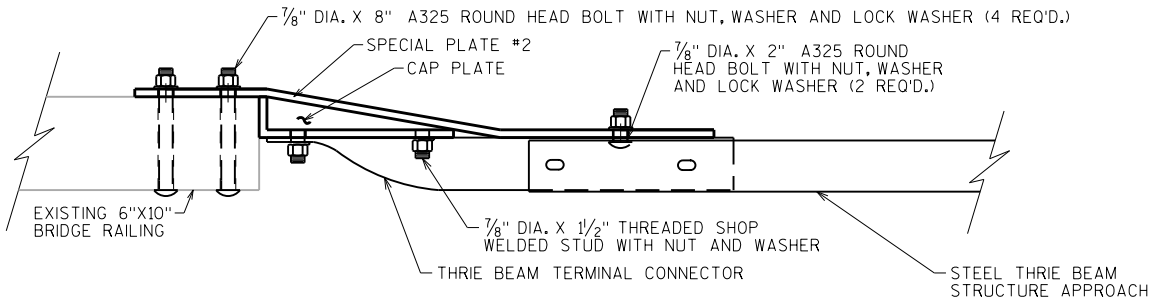
BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A325, PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A36. BOLTS, PLATES, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

FURNISHING AND CONSTRUCTING PLATES, DRILLING (4) 1" DIAMETER HOLES IN EXISTING RAILING, BOLTS, NUTS AND WASHERS SHALL BE INCIDENTAL TO THE BID ITEM RAILING ATTACHMENT SPECIAL B-52-0856.

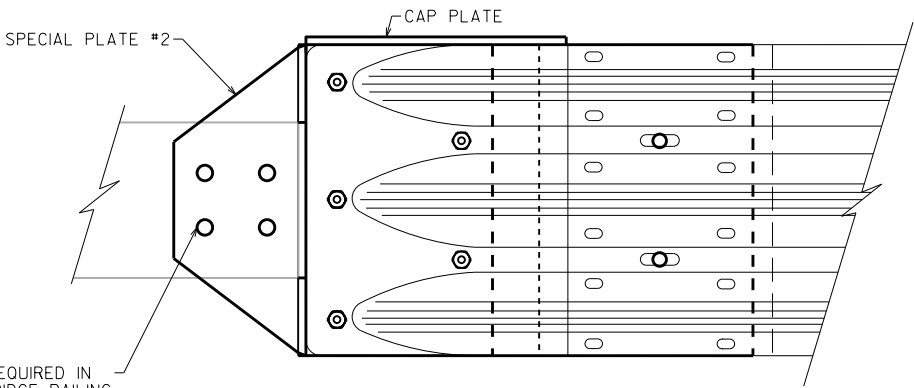
TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL THRIE BEAM INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

SEE STANDARD DETAIL DRAWING: STEEL THRIE BEAM STRUCTURE APPROACH.

VERIFY FIELD CONDITIONS PRIOR TO FABRICATION.



PLAN VIEW

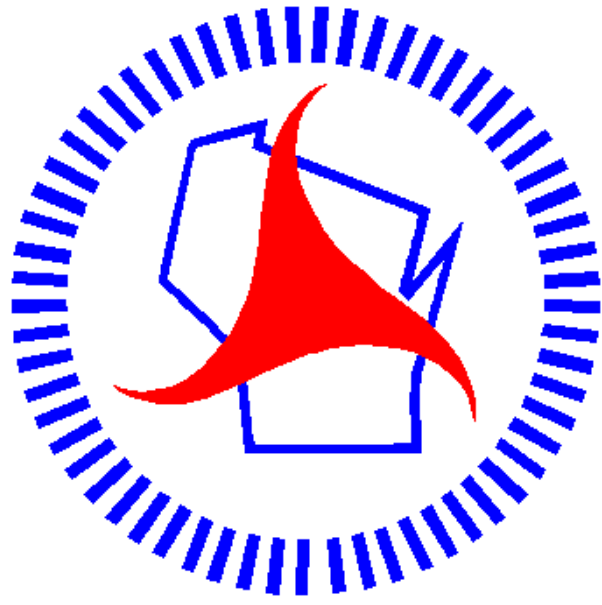


FRONT VIEW

RAILING ATTACHMENT SPECIAL, B-52-0856

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-52-856			
DRAWN BY		KCY	PLANS CK'D. SAD
THRIE BEAM ATTACHMENT		SHEET 9	

Notes



Wisconsin Department of Transportation

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