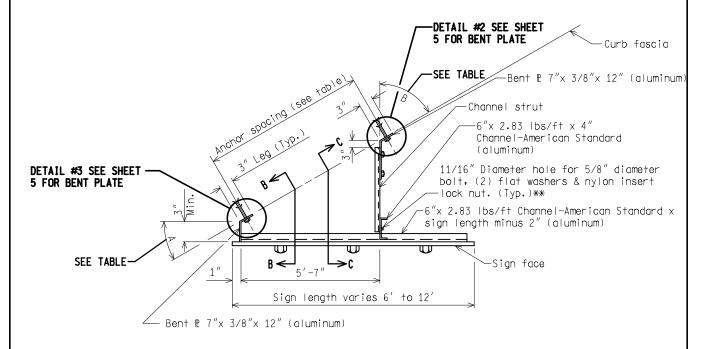


#### PLAN O° CONNECTION



PLAN 10°, 20°, 30°, & 40° CONNECTIONS

\*\* See page 2 of 5 for bolt detail

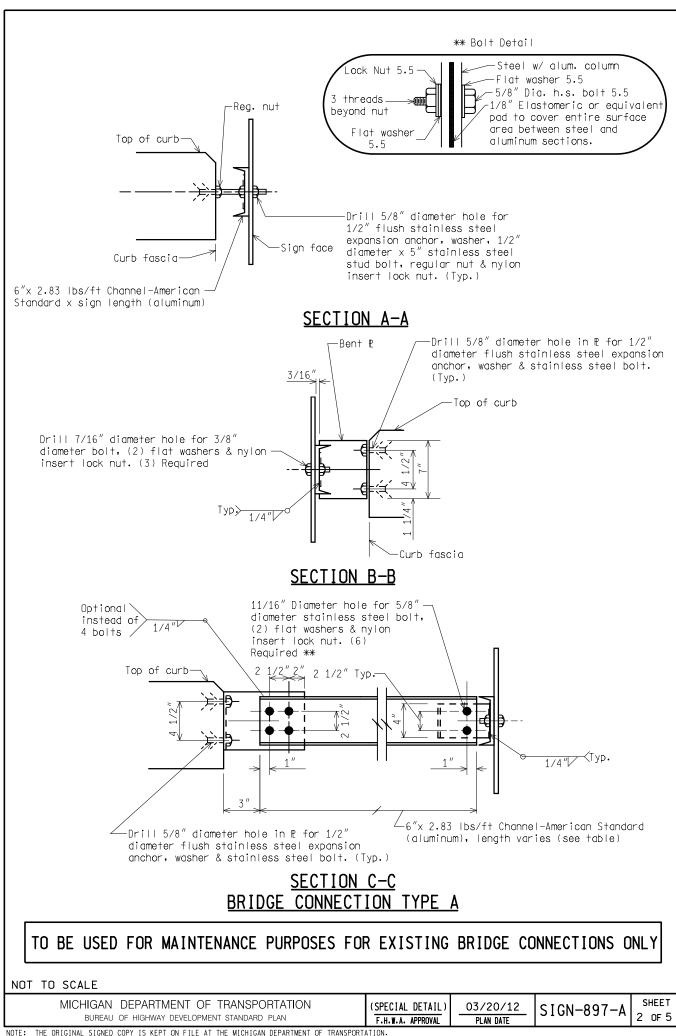
TYPE A BRIDGE CONNECTION TABLE						
SKEW	CONNEC	CTION ANGLE B	CHANNEL STRUT LENGTH (inches)	ANCHOR SPACING		
0° -10°	0°			MATCH SIGN HOLES		
11° -20°	10°	80°	6 x 2.83 lbs/ft x 1'-4 3/4" CHANNEL-AMERICAN STANDARD	5'-6"		
21° -30°	20°	70°	6 x 2.83 lbs/ft x 2'-11 1/2" CHANNEL-AMERICAN STANDARD	5'-11 1/2"		
31° -40°	30°	60°	6 x 2.83 lbs/ft x 3'-7 1/2" CHANNEL-AMERICAN STANDARD	6'-5 1/2"		
41° -50°	40°	50°	6 x 2.83  bs/ft x 5'-1 1/4" CHANNEL-AMERICAN STANDARD	7'-3 1/4"		

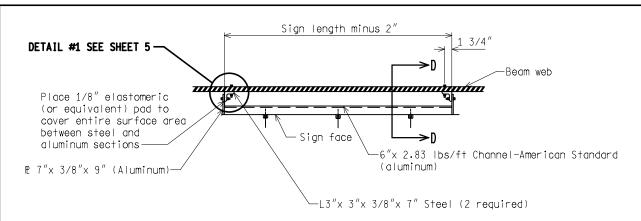
### BRIDGE CONNECTION TYPE A

TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

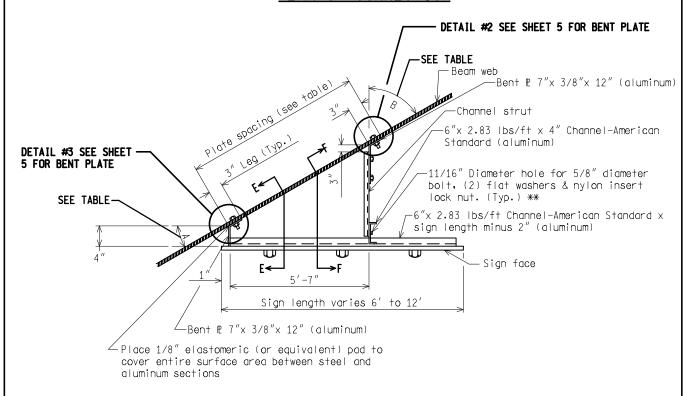
#### OLD VIII-810E

<b>EMDOT</b>	DEPARTMENT DIRECTOR Kirk T. Steudle	MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR		
Mechagan Department of Transportation  PREPARED  BY  DESIGN DIVISION		BOLTED BRIDGE CONNECTION TYPE A & B		
DRAWN BY:DHD	APPROVED BY: (SPECIAL DETAIL) DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT	(SPECIAL DETAIL) 03/20/12 SIGN-897-A SHEET 1 OF 5		





#### PLAN O° CONNECTION



# PLAN 10°, 20°, 30°, & 40° CONNECTIONS

\*\* See page 2 of 5 for bolt detail

TYPE B BRIDGE CONNECTION TABLE					
SKEW		CTION ANGLE B	CHANNEL STRUT LENGTH (inches)	ANCHOR SPACING	
0° -10°	0°			MATCH SIGN HOLES	
11° -20°	10°	80°	6 x 2.83 lbs/ft x 1'-4 3/4" CHANNEL-AMERICAN STANDARD	5'-11"	
21° -30'	20°	70°	6 x 2.83 lbs/ft x 2'-11 1/2" CHANNEL-AMERICAN STANDARD	6'-2 1/2"	
31° -40'	30°	60°	6 x 2.83 lbs/ft x 3'-7 1/2" CHANNEL-AMERICAN STANDARD	6'-8 1/2"	
41° -50°	40°	50°	6 x 2.83  bs/ft x 5'-1 1/4" CHANNEL-AMERICAN STANDARD	7'-6 1/2"	

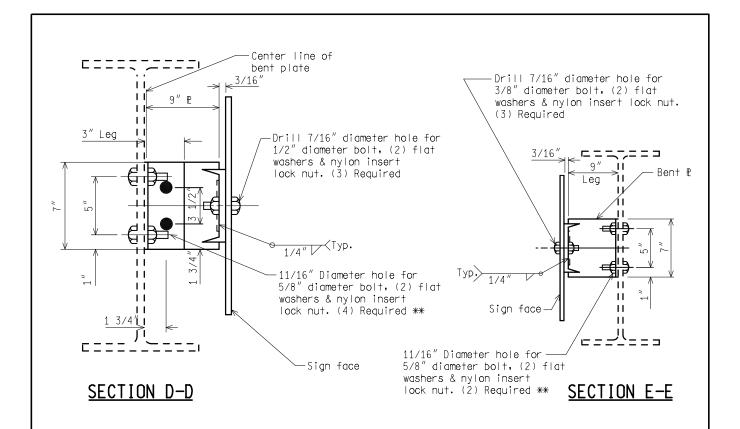
## BRIDGE CONNECTION TYPE B

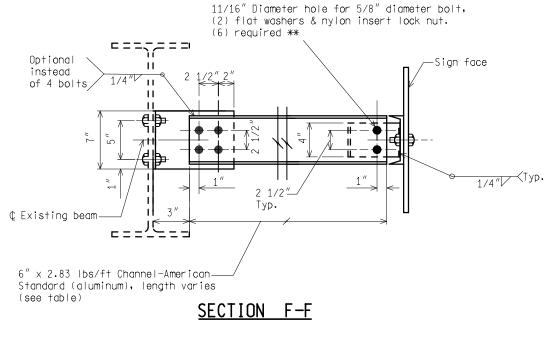
TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

OLD VIII-810E

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN (SPECIAL DETAIL) PLAN DATE SIGN-897-A SHEET 3 OF 5





NOTE:
PLACE 1/8" ELASTOMERIC (OR
EQUIVALENT) PAD TO COVER ENTIRE
SURFACE AREA BETWEEN STEEL AND
ALUMINUM SURFACES.

\*\* See page 2 of 5 for bolt detail

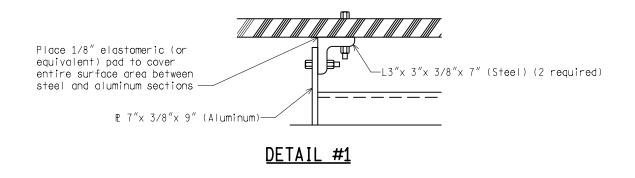
NOT TO SCALE

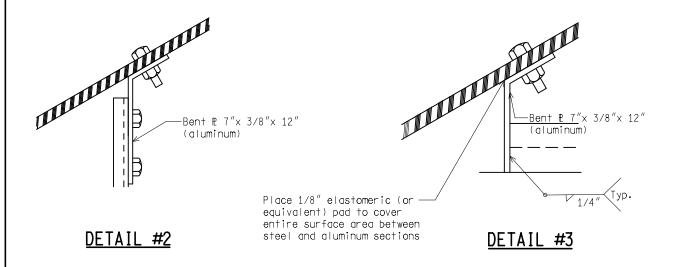
## BRIDGE CONNECTION TYPE B

## TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

OLD VIII-810E

MICHIGAN	DEPARTMENT (	OF TRANSPORTATION
BURFAU	OF HIGHWAY DEVELOR	PMENT STANDARD PLAN





### TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

#### NOTES: (APPLY TO TYPE A & B)

- 1. All bolts, nuts, and washers shall be high strength galvanized on Type B Bridge Connections, and stainless steel on Type A Bridge Connections, unless otherwise noted.
- 2. All aluminum and steel components shall be per current MDOT Standard Specifications for Construction. All steel components shall be hot-dip galvanized.
- 3. Sign location may be shifted to avoid joints or stiffeners.
- 4. Bottom edge of sign shall be horizontal when erected and shall be a minimum of 18" above the bridge beam flange at all points.
- 5. All 1/2"x 16 diameter stainless steel bolts used with 1/2" stainless steel expansion anchors shall be 1" long ( $\pm$  0") and shall engage expansion anchors 1 1/2"x bolt diameter or (9) threads minimum except for 0° connections to bridge fascia (Type A).
- 6. These bridge connections are to be used with Type II or III Sign.
- 7. Extreme caution shall be exercised when drilling holes for the 1/2" dia. expansion anchors
- 8. Expansion anchors shall be chosen from the current Qualified Products List.
- 9. Expansion anchors shall be installed as per manufacturer's recommendations.

OLD VIII-810E

SHEET

5 OF 5

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MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN

(SPECIAL DETAIL)
F.H. W. A. APPROVAL

O3/20/12
PLAN DATE

SIGN-897-A