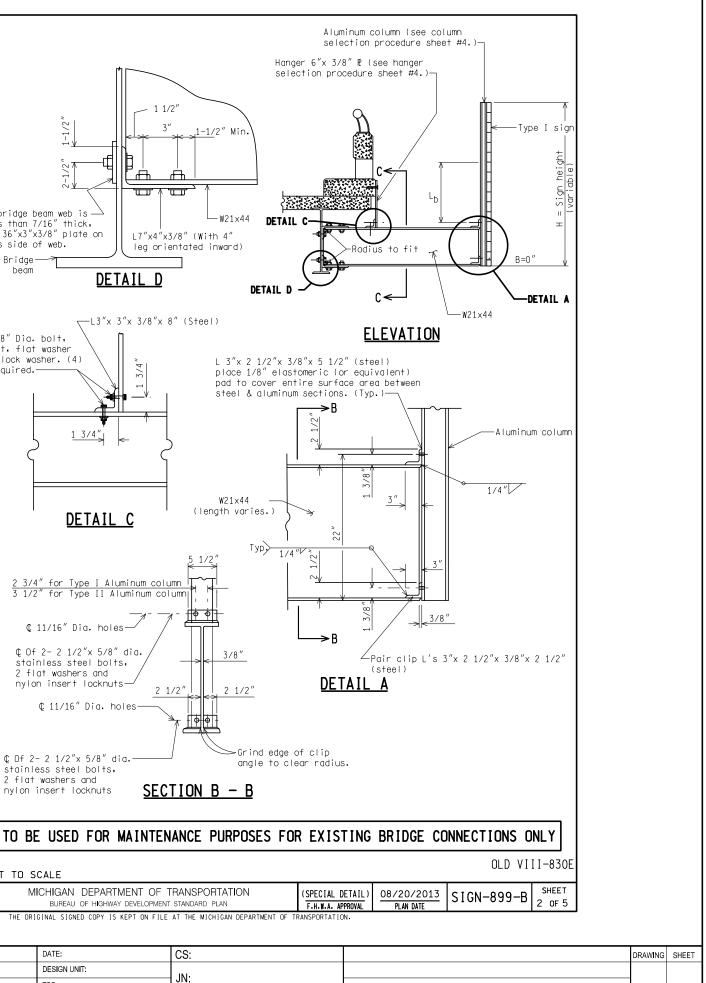


	AS-LET PLAN REVISIONS								<b>*</b> *		DATE:	CS:
ľ	O. DATE	E AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	Michigan Department of Transportation			DESIGN UNIT:	
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-W21x44

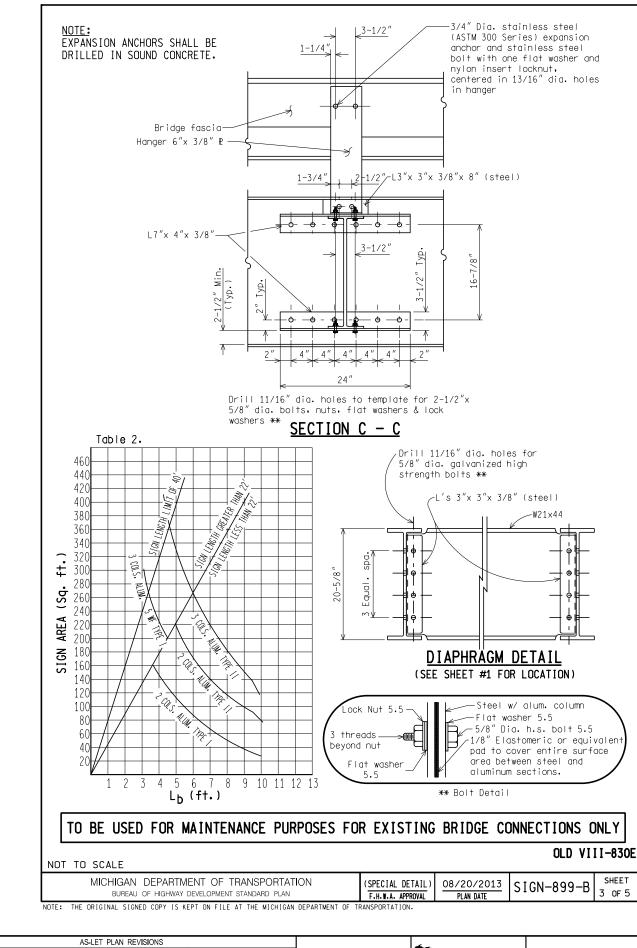
W21×44

3/8″

2 1/2"

Тур

DETAIL D



		TYPE		ALU	MINUM	COLU
		Ι		.37 lbs/ft		
		II	6" x 6" x ī	.85 lbs/ft	WIDE	FLANG
			<u>COI</u>	<u>UMN SEL</u>	<u>ECTI</u>	<u>on f</u>
1	. Determin	e B usin	g the longes	st required	colum	nn (B
2.	• $L_{\rm b} = 1/2$ $L_{\rm b} = 1/2$	of the (H + B	distance be - 2′)	etween the	top th	ie sig
3.	• Determin if any•	e the si	gn area (ft2	2) accordin	g to t	he ex
	A = Exit A = Pare	No, sig nt sign	n 10ft x 2f <sup>-</sup> 15ft x 7.5f <sup>-</sup> TOTAL ARE/	$f = 20.0 (f) \\ f = \frac{112.5}{132.5} (f) \\ f = \frac{132.5}{132.5} (f) $	<u>f†2)</u>	
	Average	height =	H = <u>TOTAL /</u> Parent	<u>AREA (ft2)</u> sign lengt	h (ft)	
	Average	height =	$H = \frac{132.5}{15.0}$	$\frac{(f+2)}{(f+1)} = 8.83$	ſf+	
4.	. Use Tabl	e 2 on s	heet no. 3 d	of 4, to de	termin	ie the
	B. Hange	r				
	1. Ca	lculate	cantilever '	″C″: (Refer	to Si	gn-84
	2. Fr	om Table	1 on sheet	#1, determ	ine if	hang
NOT	ES:					
1.	All bolts	shall b	e galvanized	d high stre	ngth b	olts.
2.	All bolts oversize.	, nuts,	and washers	shall be h	ot dip	galv
3.			steel compor I steel comp			
4.			el expansion ininum pullo			
5.	Sign loca	tion may	be shifted	to avoid j	oints	or st
6.	<del>g</del> = Angle "C" and s	between ign leng	sign and br th "L". See	ridge fasci Sign-840 S	a. Ang eries.	lle is
7.	for Conne	ctions f	o mounting s or Sign to M Sign Connec	Mounting Su	pports	
8.			gn shall be I flange at d		when	erect
9.	Type "E"	Connecti	on denotes d	∃ †wo-brack	et sig	in cor
10.	Type "F"	Connecti	on denotes a	a three-bra	cket s	ign c
11.	Extreme c anchors.	aution s	hall be exer	cised when	drill	ing h
12.	Expansion	anchors	shall be ch	nosen from	the cu	irrent
13.	Expansion	anchors	shall be ir	nstalled as	per m	nanufo
NOT 1	TO SCALE					
	MICHIGAN		MENT OF TRAM			(SP

				PLAN REVISIO			<b>*</b>		DATE:	CS:
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F							Michigan Department of Transportation	FILE:	TSC:	JN:

DLUMN		
ANGE-ARMY-NAVY SERIES		
ANGE-H BEAMS		
N_PROCEDURE		
(B = 0.0" Min.)		
signand the top clip angle bolt.		
e example given below include Exit No. sign		
the size and number of columns required.		
-840 series)		
nangers are required.		
ts.		
alvanized. Nuts shall be tapped 0.015"		
current MDOT Standard Specifications For		
nt-dip galvanized.		
commodate 3/4" dia, stainless steel bolt and 5,000 lbs at 1/16" maximum slippage,		
stiffeners.		
is a function of permissible cantilever		
all have the same bolt arrangement as shown for Cantilevers and Trusses, (Typical Plan		
ected and shall bea minimum of 18" above the		
connection.		
n connection.		
ng holes for the 3/4" diameter expansion		
rent Qualified Products List.		
nufacturer's recommendations. OLD VIII-830E		
(SPECIAL DETAIL) F.H.W.A. APPROVAL 08/20/2013 PLAN DATE SIGN-899-B 4 OF 5 RANSPORTATION.		
	DRAWING	SHEET
	_	

- 14. Expansion anchors shall be drilled in sound concrete.
- 15. When the sign support is attached to A-588 Bridge Beams the connection interfaceshall be blast cleaned, and primed with organic zinc-rich paint before placingthe new connection. The paint shall overlap the perimeter of the connection by 2 inches. The paint color shall be "Brown Weathering Steel", Federal Code Number 10062. The perimeter of the contact surface of the sign supports connection to the beam web shall be sealed in accordance to Subsection 713.03.F of the Standard Specifications For Construction.
- 16. The bolted connection of the sign support to the beam web shall be according to Subsection 707.03.D.7 of the Standard Specifications For Construction.

TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION	(SPECIAL DETAIL)	08/20/2013	SIGN-899-B	SHEET					
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN	F.H.W.A. APPROVAL	Plan date		5 OF 5					
THE ORIGINAL SIGNED CORY IS KEPT ON FILE AT THE MICHICAN DEPARTMENT OF TRANSPORTATION									

NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.

		AS-	let plan revisio	NS		<u> </u>		DATE:	CS:	DRAWIN	NG SHEET
NO.	DATE AUTH	DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	<b>ŽMDOT</b>		DESIGN UNIT			
1						Michigan Department of Transportation					
							FILE:	TSC:			

## OLD VIII-830E