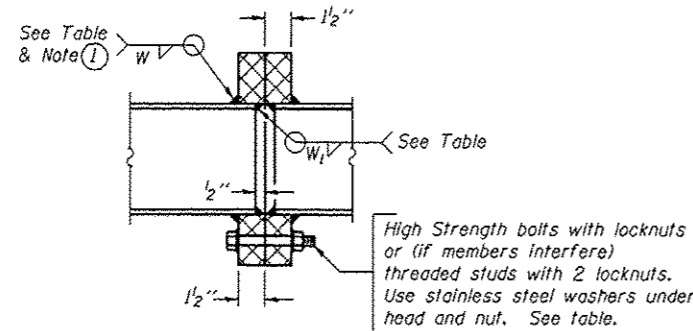


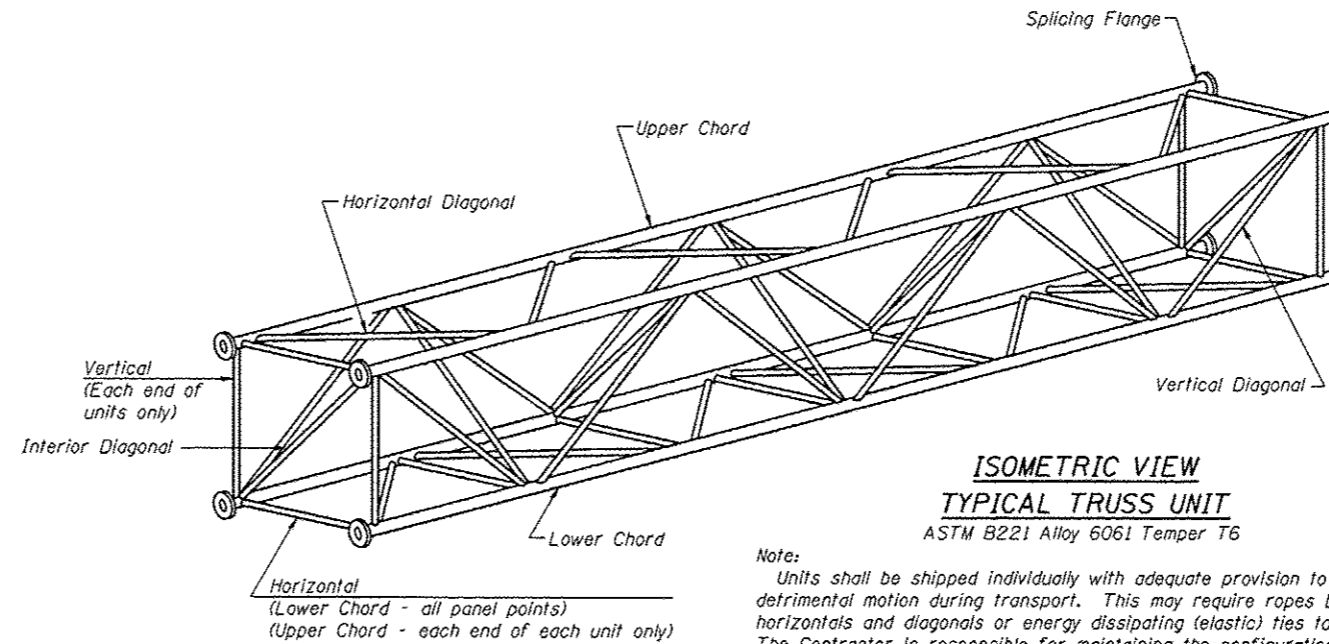
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _u)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W ₁		
5-01 5S 010 1074 R180.40	1134+50	I-A	6	28'-9"	4'-5 ³ / ₄ "	1	6	28'-1 ¹ / ₂ "	4'-5 ³ / ₄ "	5"	5/16"	2 ¹ / ₂ "	5/16"	2 ¹ / ₂ "	6	7/8"	5/16"	1/4"	8 ³ / ₄ "	11 ³ / ₄ "
5-02 5S 010 1074 R181.19	1174+50	I-A	8	39'-2 ¹ / ₂ "	4'-8"	-	-	-	-	5"	5/16"	2 ¹ / ₂ "	5/16"	2"	6	7/8"	5/16"	1/4"	8 ³ / ₄ "	11 ³ / ₄ "
5-04 5S 010 1074 R182.43	1243+75	I-A	6	31'-1 ¹ / ₂ "	4'-10 ¹ / ₂ "	1	6	30'-6"	4'-10 ¹ / ₂ "	5 ¹ / ₂ "	5/16"	2 ¹ / ₂ "	5/16"	2 ³ / ₄ "	6	7/8"	3/8"	1/4"	9 ¹ / ₄ "	12 ¹ / ₄ "
5-07 5S 010 1074 L182.76	1265+75	I-A	6	29'-1 ¹ / ₂ "	4'-6 ¹ / ₂ "	1	6	28'-6"	4'-6 ¹ / ₂ "	5"	5/16"	2 ¹ / ₂ "	5/16"	2 ¹ / ₂ "	6	7/8"	5/16"	1/4"	8 ³ / ₄ "	11 ³ / ₄ "
5-08 5S 010 1074 L181.53	1198+06	I-A	6	28'-9"	4'-5 ³ / ₄ "	1	6	28'-1 ¹ / ₂ "	4'-5 ³ / ₄ "	5"	5/16"	2 ¹ / ₂ "	5/16"	2 ¹ / ₂ "	6	7/8"	5/16"	1/4"	8 ³ / ₄ "	11 ³ / ₄ "
5-09 5S 010 1074 L180.76	1160+50	I-A	5	26'-9 ¹ / ₄ "	4'-11 ³ / ₄ "	1	6	31'-1 ¹ / ₂ "	4'-11 ³ / ₄ "	5"	5/16"	2 ¹ / ₂ "	5/16"	2 ¹ / ₂ "	6	7/8"	5/16"	1/4"	8 ³ / ₄ "	11 ³ / ₄ "

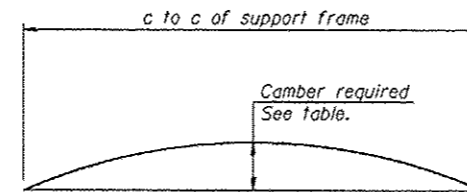


SECTION B-B

① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



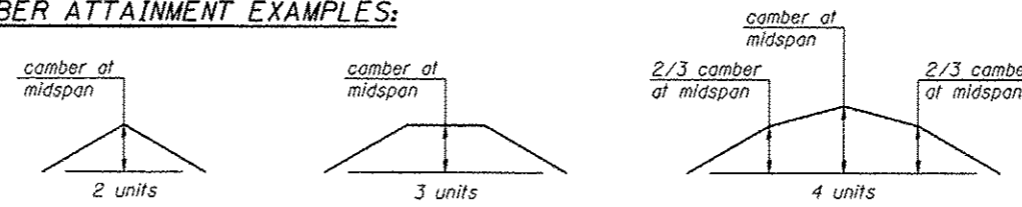
**ISOMETRIC VIEW
TYPICAL TRUSS UNIT**
ASTM B221 Alloy 6061 Temper T6



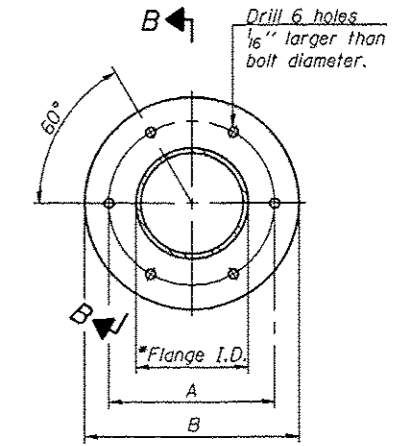
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

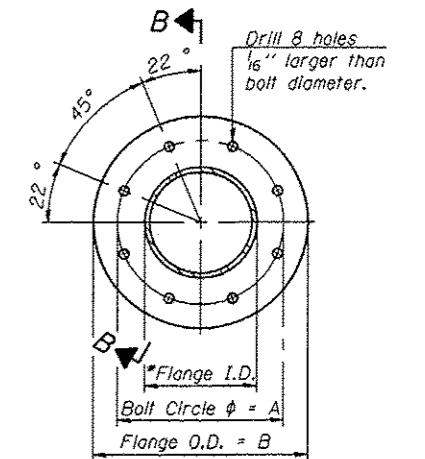
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651

*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12

* 0-5 OVD SIN STR REPL 2013-09

FILE NAME: c:\p\work\pvidot\bucklesj\48388231\094222-Sign-Structure-Details.dgn	USER NAME: bucklesj	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A	F.A.I. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
PLOT SCALE: 40.0000' / in.	CHECKED: -	REVISED: -	74			-	CHAMPAIGN	50	39	
Default	DATE: -	REVISED: -	SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 46222		ILLINOIS FED. AID PROJECT		
PLOT DATE: 8/22/2012	DATE: -	REVISED: -								