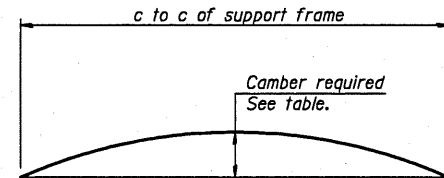


**TRICHORD UNIT TABLE**

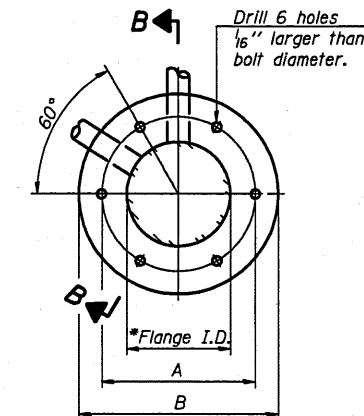
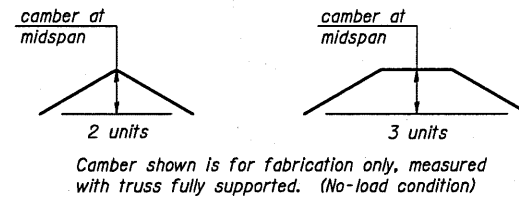
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit		
			No. Panels per Unit	Unit Lgth.(L <sub>u</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )
5 S 010 1074 R185.40	39+46	TRI-I-S	5	27'-3"	4'-11 1/2"	0		



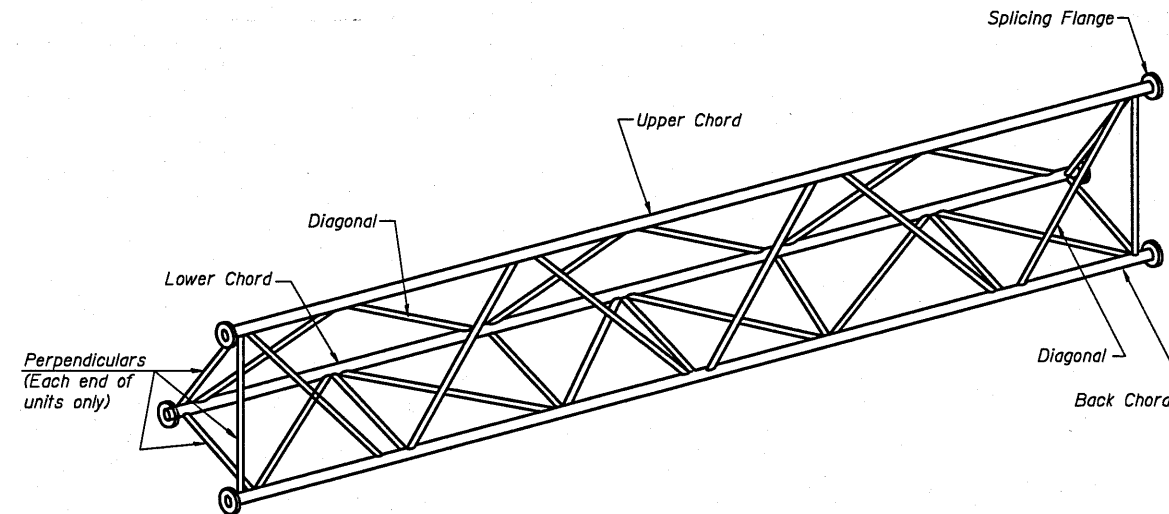
**CAMBER DIAGRAM**

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

**CAMBER ATTAINMENT EXAMPLES:**

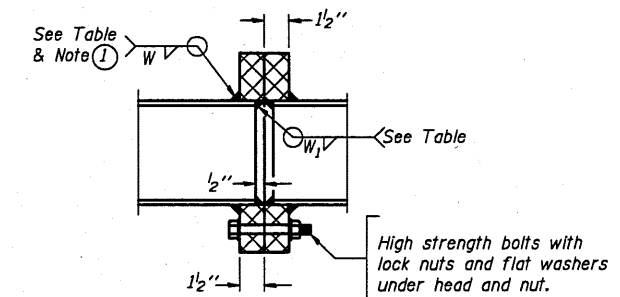


**TRUSS TYPES I-S, II-S, & III-S**



**ISOMETRIC VIEW  
TYPICAL INTERIOR TRUSS UNIT**

Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



**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.

NUMBER	REVISION	DATE

Truss Type	Maximum Span Length (ft.)	Chords				*Camber at Midspan (in.)	Splicing Flange					
		O.D.		Wall			H.S. Bolts		Weld Sizes			
		(in.)	(in.)	(in.)	(in.)		No./Splice (each)	Diameter (in.)	W (in.)	W <sub>1</sub> (in.)	A (in.)	B (in.)
TRI-I-S	80	4.500	0.237	2.875	0.203	2.25	6	7/8	1/4	3/16	8 1/4	11 1/4
TRI-II-S	100	5.563	0.258	2.875	0.203	3.25	6	7/8	3/8	1/4	9 1/4	12 1/4
TRI-III-S	120	6.625	0.280	2.875	0.203	5.00	6	1	3/8	1/4	11 1/2	15
TRI-IV-S	140	8.625	0.322	3.500	0.216	6.25	6	1 1/4	3/8	1/4	13	16 1/2

\* Note to fabricator: For spans between maximum span lengths given in table, use linear interpolation to determine camber. Minimum AASTO Camber = L / 1000

TRI-S-3

12-1-08

FILE NAME = c:\pwwork\pwwork\dot\buoklesj\d0212597\0546135-shd-Detail.dgn	USER NAME = buoklesj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRI-CHORD SIGN STRUCTURES STEEL TRUSS DETAILS FOR TRUSS TYPES TRI-I-S, TRI-II-S, &amp; TRI-III-S</b>				F.A.I. RTE. 57&74	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48.0000" / IN.	PLotted DATE = 7/28/2010	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	Champaign	37	24
CHECKED -	DATE -	REVISED -	REVISED -		CONTRACT NO. 46135*								
DATE -	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT								