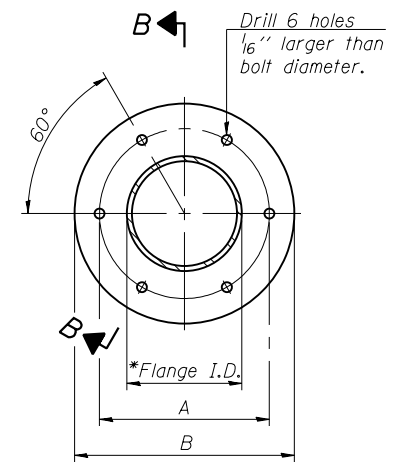


**TRUSS UNIT TABLE**

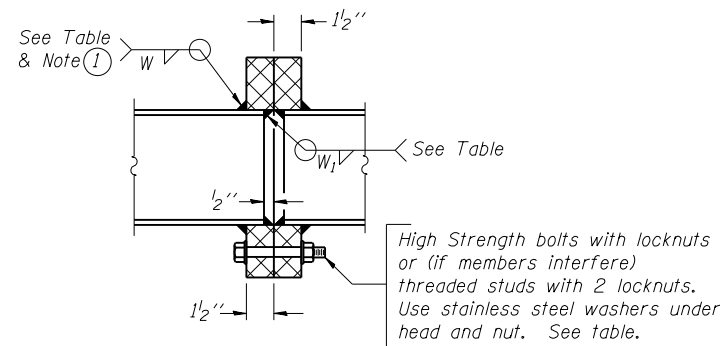
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W <sub>i</sub>		
ISO161094L000.0-001	2208+36	I-A	6	30'-10 1/2"	4'-10"	--	--	--	5"	5/16"	2 1/2"	5/16"	1 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	
ISO161094R000.0-002	79+80	I-A	7	36'-10 1/2"	5'-0"	--	--	--	5"	5/16"	2 1/2"	5/16"	1 7/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	
ISO161094R000.0-002	97+50	I-A	7	36'-10 1/2"	5'-0"	--	--	--	5"	5/16"	2 1/2"	5/16"	1 7/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	
ISO161094R000.0-001	602+17	I-A	6	30'-10 1/2"	4'-10"	--	--	--	5"	5/16"	2 1/2"	5/16"	1 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	



**TRUSS TYPES I-A**

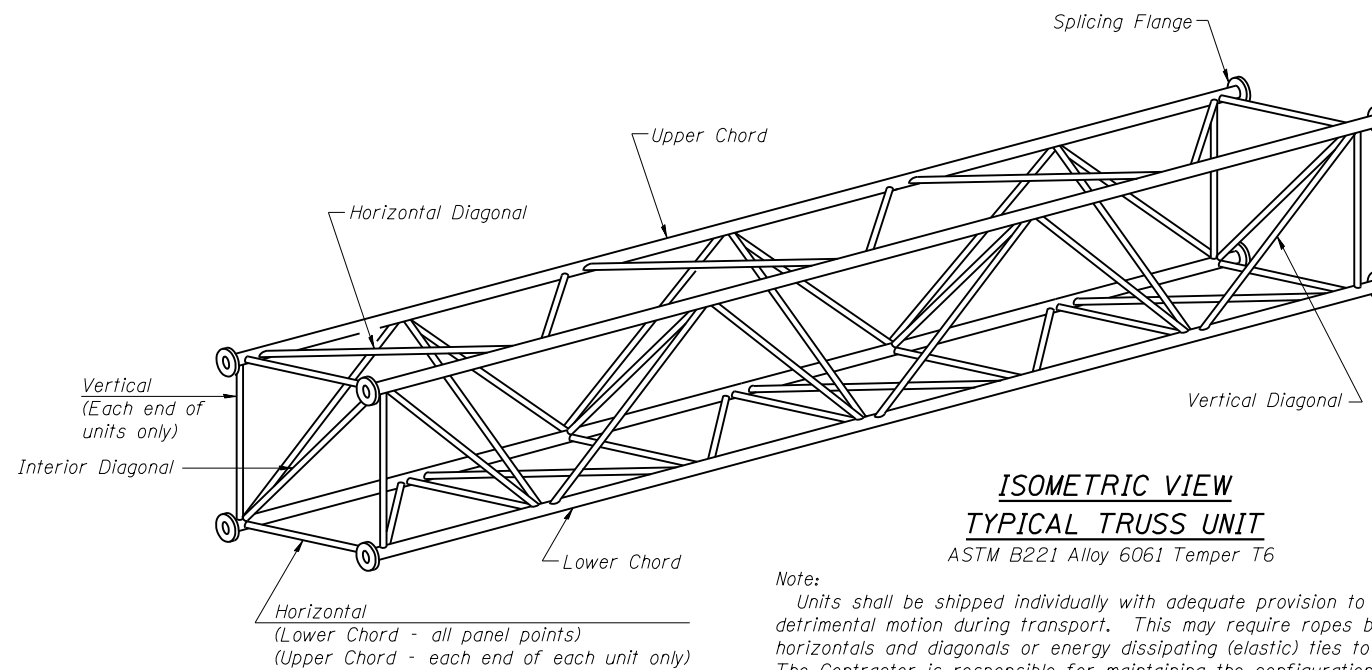
**SPLICING FLANGES**

ASTM B221, Alloy 6061-T6  
or ASTM B209, Alloy 6061-T651  
\*To fit O.D. of Chord with maximum gap of 1/16".



**SECTION B-B**

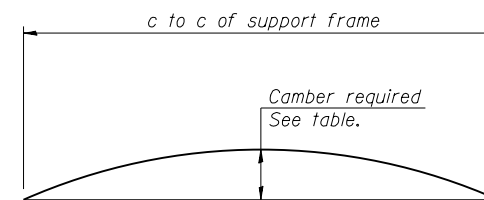
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

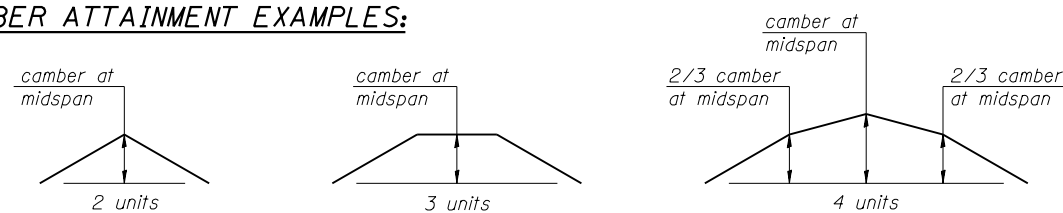
Note:  
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



**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)

2/12/26 PM

S:\1072\_05\_CADD\Structures\CADD Sheets\SignStructures-60.112-003-TRUSS.dwg:013

OS4-A-2

6-1-12

BOWMAN, BARRETT & ASSOCIATES INC.  
CONSULTING ENGINEERS  
Chicago, Illinois  
312.228.0100  
www.bbainc.com



USER NAME =	DESIGNED - JGC	REVISED -
PLOT SCALE =	CHECKED - BAK	REVISED -
PLOT DATE = 03/29/2013	DRAWN - JGC	REVISED -
	CHECKED - TL	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET NO. S-3 OF S-18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2012-059-BR	COOK	631	247
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J12	