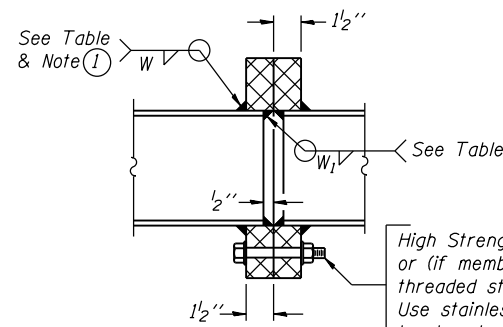


TRUSS UNIT TABLE

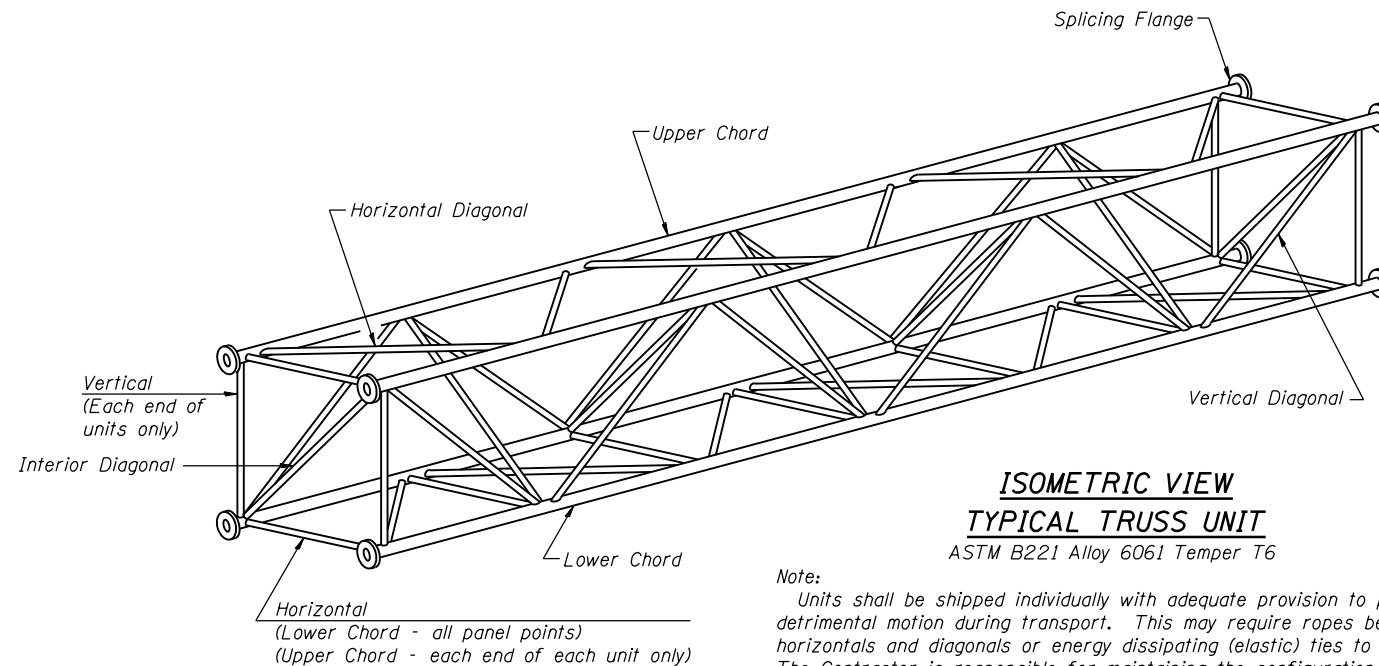
D-2 Inventory #	Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals				Camber at Midspan	Splicing Flange					
				No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels 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				
SN-101	2S0811088R015.3		II-A	6	34'-4 1/2"	5'-5"	1	6	33'-9"	5'-5"	6 1/2"	5/16"	3"	5/16"	3 1/8"	6	1"	3/8"	1/4"	11"	14 1/2"		
SN-104	2S0811088L016.0		I-A	7	34'-8 1/4"	4'-8 1/4"	1	6	29'-4 1/2"	4'-8 1/4"	5 1/2"	5/16"	2 1/2"	5/16"	3 1/8"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"		
SN-126	2S081S005R011.2		I-A	6	30'-9"	4'-9 3/4"	1	6	30'-9"	4'-9 3/4"	5"	5/16"	2 1/2"	5/16"	2 3/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"		
SN-147	2S081S092L028.0		I-A	5	26'-5 1/2"	4'-11"	1	6	30'-9"	4'-11"	5"	5/16"	2 1/2"	5/16"	2 3/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"		



SECTION B-B

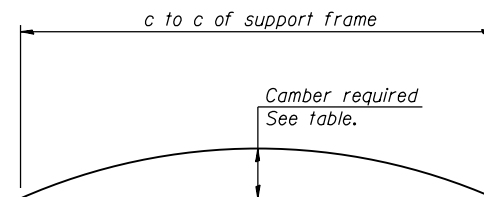
High Strength bolts with locknuts or (if members interfere) threaded studs with 2 locknuts. Use stainless steel washers under head and nut. See table.

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

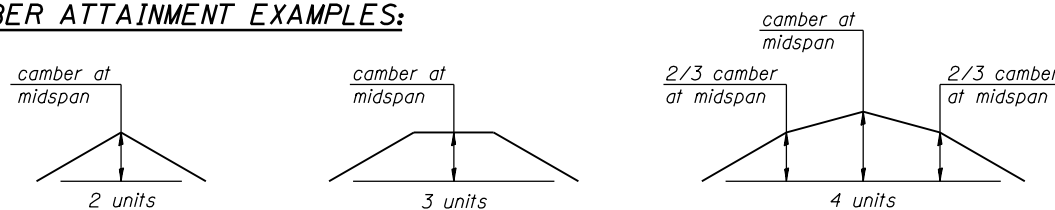
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



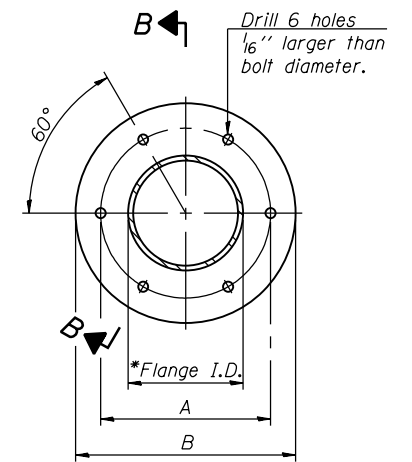
CAMBER DIAGRAM

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

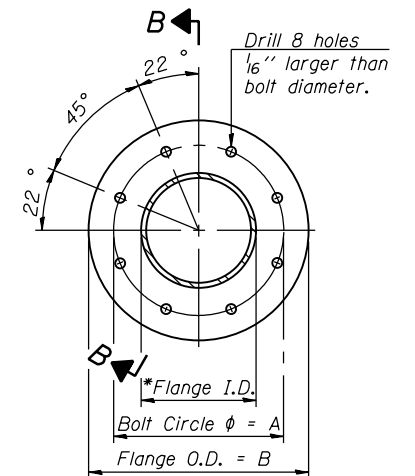
CAMBER ATTAINMENT EXAMPLES:



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



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

HBM
ENGINEERING GROUP, LLC
CONSULTING & DESIGN
INSPECTION & RATING
RESEARCH & TESTING

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FAX: (708) 236-0901

USER NAME =	DESIGNED - JMG	REVISED -
	CHECKED - JJS	REVISED -
PLOT SCALE =	DRAWN - AI	REVISED -
PLOT DATE = 3/12/2014	CHECKED - MAI	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. 3 of 11

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	ROCK ISLAND	45	32
* D-2 OVD SIN STR REPL 14-26			CONTRACT NO. 46287	
ILLINOIS FED. AID PROJECT				