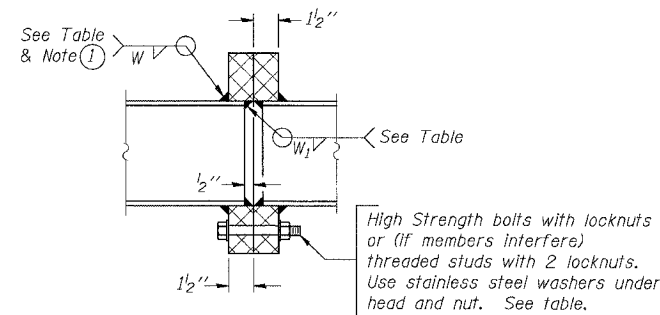


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

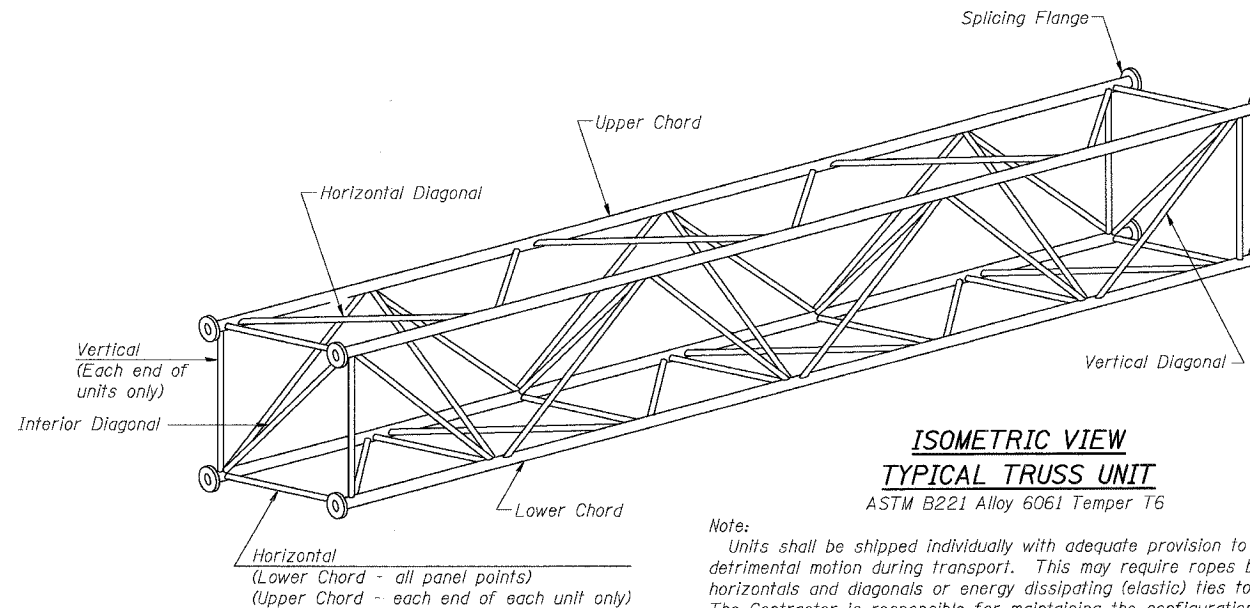
TRUSS UNIT TABLE

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 _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		
IS0991055R249.90	189+70	II-A	7	37'-0 1/4"	5'-0 1/4"	1	6	31'-4 1/2"	5'-0 1/4"	6 1/2"	5 1/6"	3"	5 1/6"	3 1/4"	6	1"	3/8"	1/4"	11"	14 1/2"
IS0991055L250.67	229+76	I-A	8	39'-2 1/2"	4'-8"					5"	5 1/6"	2 1/2"	5 1/6"	2 5/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
IS0991055R251.02	248+22	I-A	8	38'-2 1/2"	4'-6 1/2"					5"	5 1/6"	2 1/2"	5 1/6"	2"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
IS0991055L251.17	256+26	I-A	5	26'-5 1/2"	4'-11"	1	6	30'-9"	4'-11"	5"	5 1/6"	2 1/2"	5 1/6"	2 3/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
IS0991055R252.64	333+75	I-A	6	31'-1 1/2"	4'-10 1/2"	1	6	30'-6"	4'-10 1/2"	5 1/2"	5 1/6"	2 1/2"	5 1/6"	2 3/4"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
IS0991055L253.03	354+55	I-A	6	30'-4 1/2"	4'-9"	1	6	29'-9"	4'-9"	5"	5 1/6"	2 1/2"	5 1/6"	2 3/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"



SECTION B-B

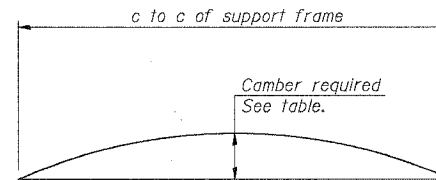
- ① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

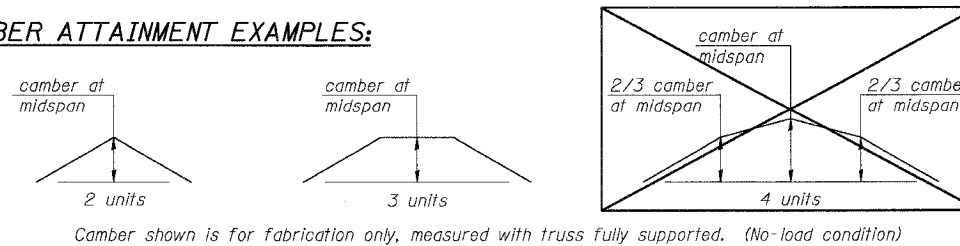
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



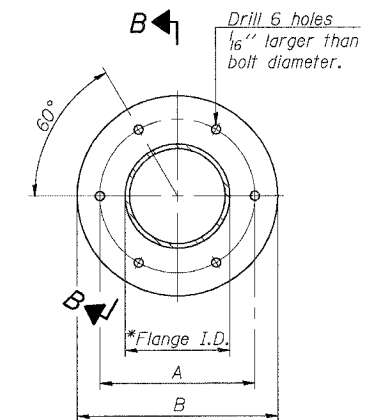
CAMBER DIAGRAM

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

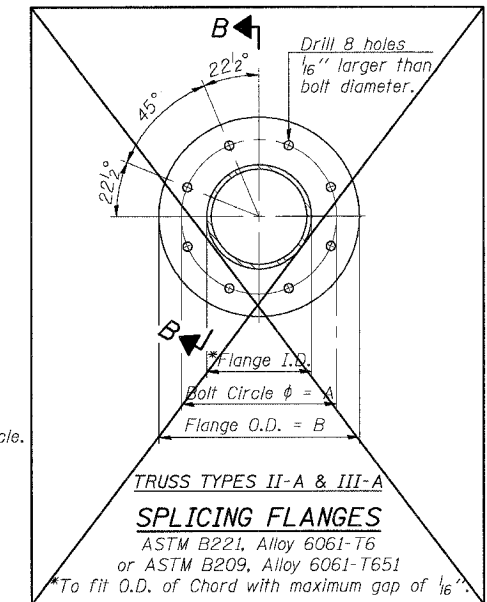
CAMBER ATTAINMENT EXAMPLES:



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"

NUMBER	REVISION	DATE

SHT. S-3 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAI ROUTE 55 (I-80 TO U.S. 30)
 SIGNING
 WILL COUNTY

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

SCALE: _____ DRAWN BY: MDB
 DATE: 05/19/06 CHECKED BY: MJK

TENG TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

OS4-A-2 1-7-05

PLOT DATE = 04/18/06
 FILE NAME = #FILES#
 USER NAME = #USER#
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 GARCIAZ
 5:17:20PM, 14/2/24
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