

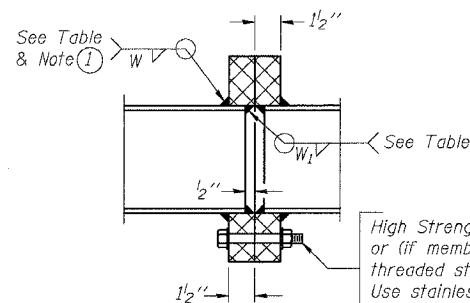
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
94/90	*	COOK	588	267
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

\* 62303 (2021-922 PT2 ETC 2324.6-1P) R-11

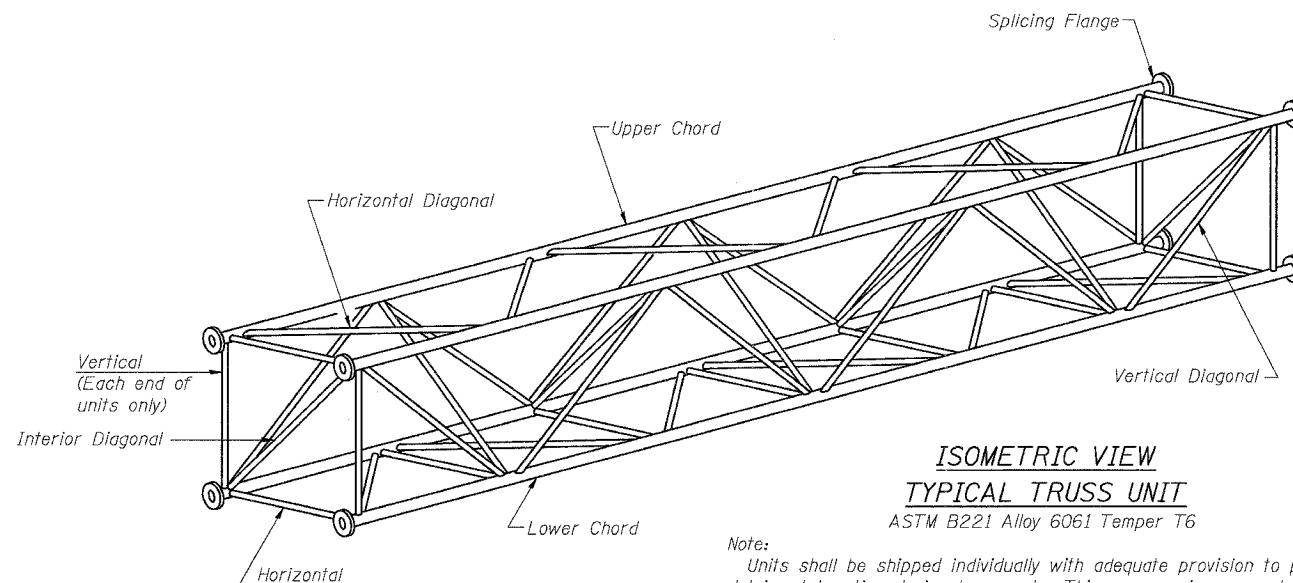
TRUSS UNIT TABLE

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>		
ISO161094R057.1	3511+00.00	II-A	5	28'-11 1/2"	5'-5"	1	6	33'-9"	5'-5"	6"	5/16"	3"	5/16"	2.5"	6	7/8"	3/8"	1/4"	10 1/4"	13 3/4"
ISO161094R057.4	3493+30.00	I-A	7	33'-9 3/4"	4'-6 3/4"	0	--	--	--	4 1/2"	1/4"	2 1/2"	1/4"	1.6"	6	3/4"	1/4"	3/16"	8 1/4"	11 1/4"
ISO161094R056.8	3524+00.00	II-A	5	26'-9 1/4"	4'-11 3/4"	1	6	31'-1 1/2"	4'-11 3/4"	5 1/2"	5/16"	3"	5/16"	2.1"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
ISO161094R057.8	3475+92.44	III-A	5	25'-7 1/2"	4'-9"	0	--	--	--	7"	5/16"	3 1/4"	5/16"	1.0"	6	1"	7/16"	5/16"	11 1/2"	15"
ISO161094R056.67	3532+00	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"	2.50"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
ISO161094R056.47	3543+00	I-A	5	26'-1 3/4"	4'-10 1/4"	1	6	30'-4 1/2"	4'-10 1/4"	5"	5/16"	2 1/2"	5/16"	2.30"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
ISO161094R056.02	3566+30	I-A	8	38'-2 1/2"	4'-6 1/2"	--	--	--	--	5"	5/16"	2 1/2"	5/16"	2.00"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
ISO161094R055.64	3586+50	III-A	5	26'-9 1/4"	4'-11 3/4"	1	6	31'-1 1/2"	4'-11 3/4"	7"	5/16"	3 1/4"	5/16"	2.40"	6	1"	7/16"	5/16"	11 1/2"	15"
ISO161094R055.46	3596+00	I-A	7	35'-8 1/2"	4'-10"	--	--	--	--	5"	1/4"	2 1/2"	1/4"	1.75"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
ISO161094R055.08	3616+00	I-A	7	36'-3 1/2"	4'-11"	--	--	--	--	5"	5/16"	2 1/2"	5/16"	1.80"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"

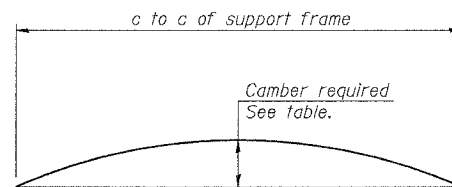


SECTION B-B

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.



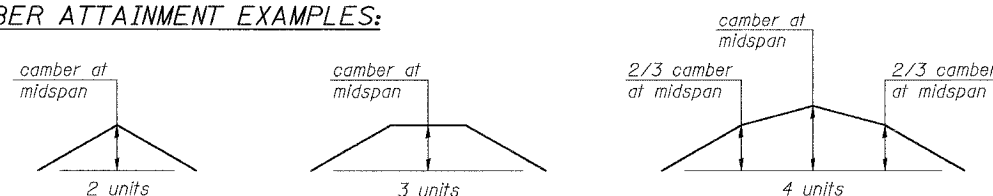
Note:  
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



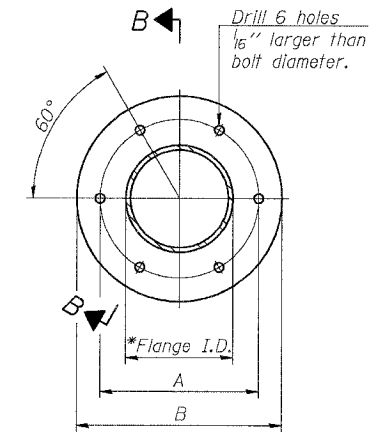
CAMBER DIAGRAM

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

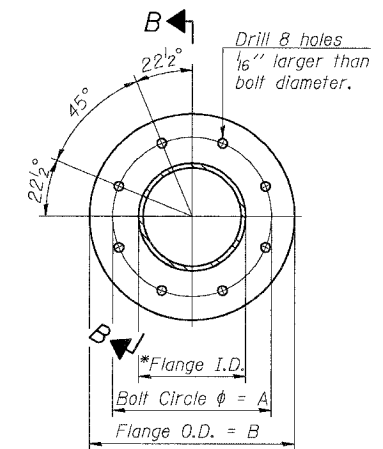
CAMBER ATTAINMENT EXAMPLES:



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

DESIGNED	MSA	20
CHECKED	AS	EXAMINED
DRAWN	RV	PASSED
CHECKED	MSA	ENGINEER OF BRIDGES AND STRUCTURES

OS4-A-2

1-7-05

SGN-17

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

OVERHEAD SIGN STRUCTURES  
(SPAN)