

Note:
There are twice as many horizontal diagonals as there are vertical diagonals.

For Section B-B and Section C-C, see Base Sheet OSC-A-3.

TRUSS UNIT TABLE

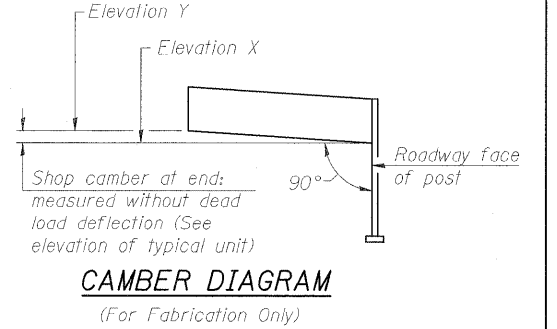
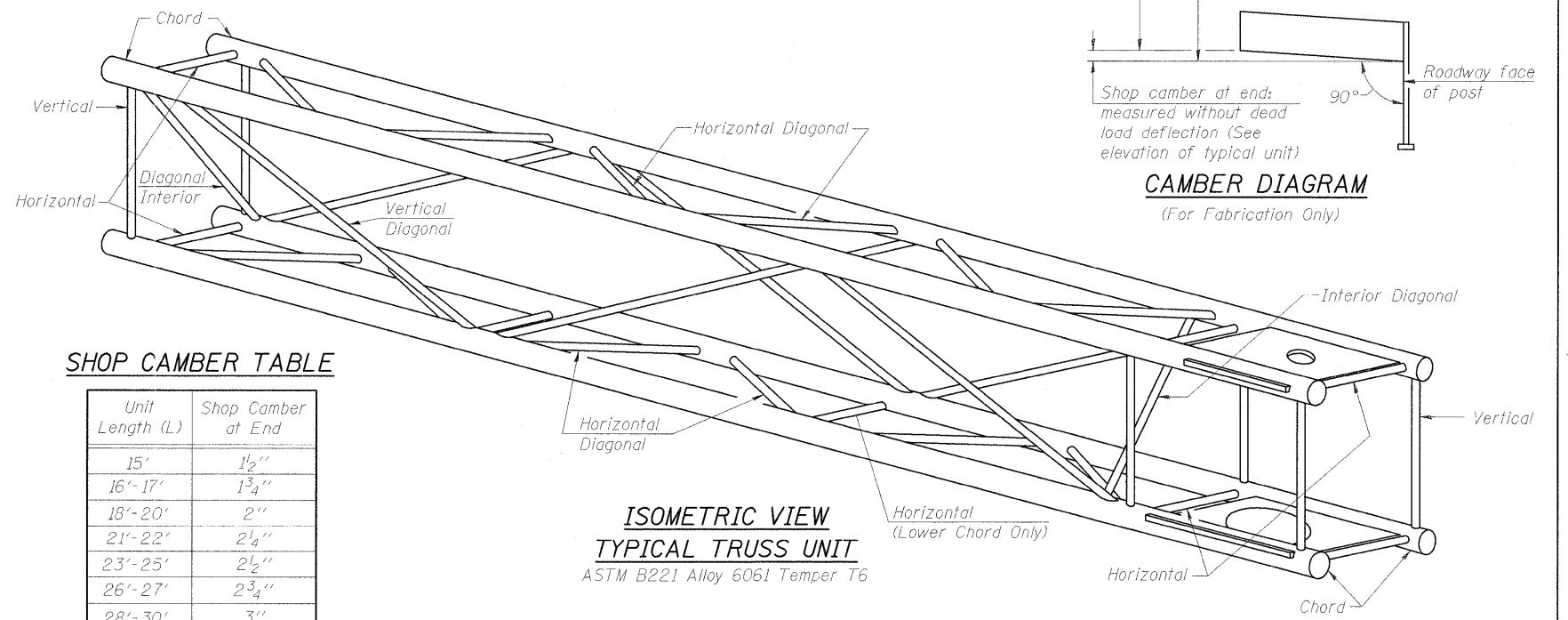
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord			
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*P = \frac{L-s-3"}{\# \text{ Panels}}$$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
9C1001057L054.0	1462+68 (I-57)	III-C-A	32	6	60.00"
9C1001057R053.6	1492+80 (I-57)	II-C-A	27	6	50.00"
9C1001057L053.5	1493+20 (I-57)	II-C-A	27	6	50.00"
9C100L013R000.0	1808+33 (IL 13)	II-C-A	30	7	48.00"
9C100L013L000.1	1819+67 (IL 13)	II-C-A	30	7	48.00"

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



OSC-A-2

9-15-11

FILE NAME = ...D978182-sht-sign@95-Cantilever-OSC-A-2.dgn	USER NAME = Rob Heady	DESIGNED - JH	REVISED -
PLOT SCALE = 50.0000' / IN.		DRAWN - JH	REVISED -
PLOT DATE = 10/7/2011		CHECKED - SD	REVISED -
		DATE - 10/07/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET NO. 2 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 0X1-6-2H8K-2, HB-1,2; 0X-1R-1	WILLIAMSON	968	508	
* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		ILLINOIS FED. AID PROJECT	

EFK·Moen, LLC
Civil Engineering Design