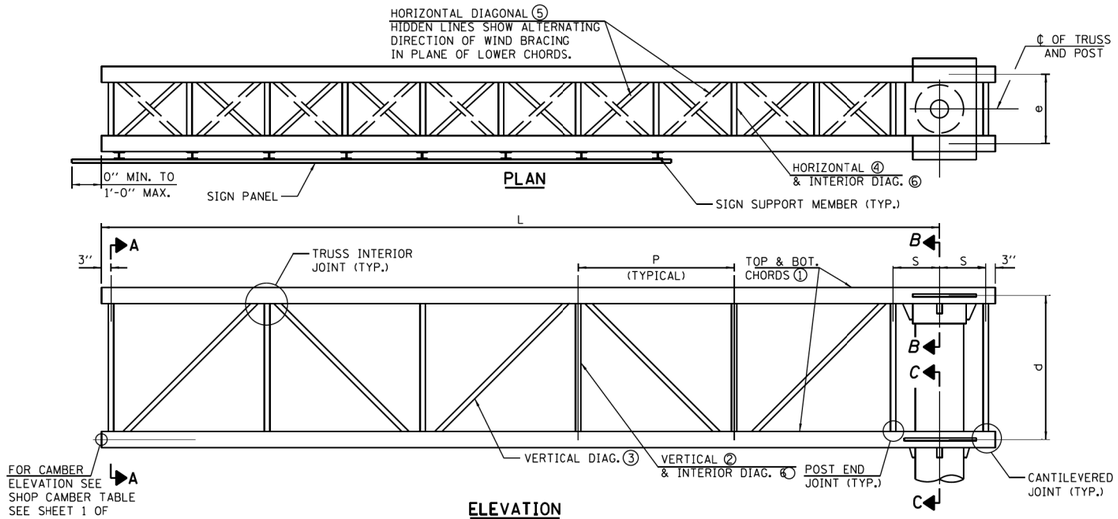

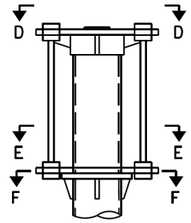

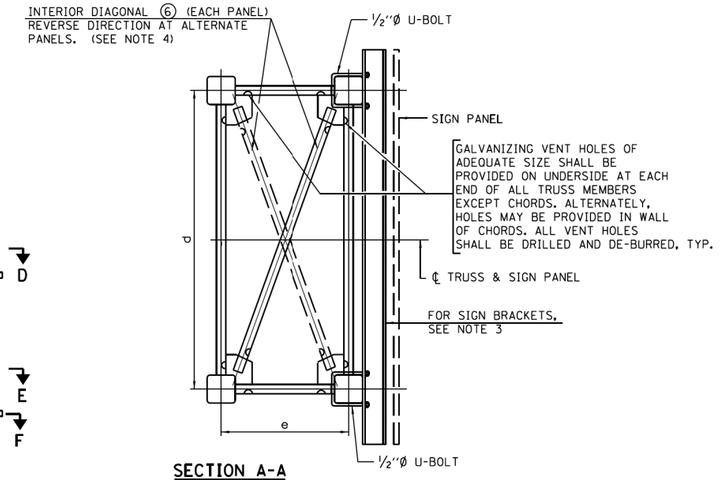

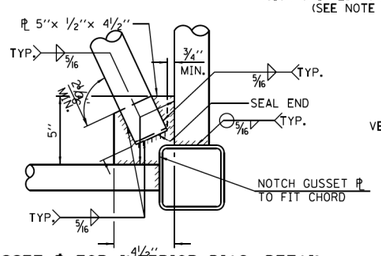

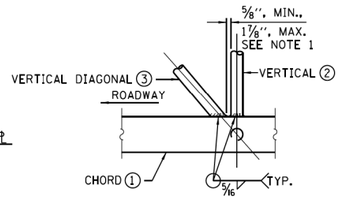

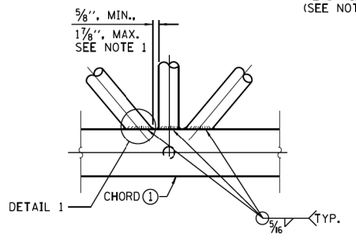

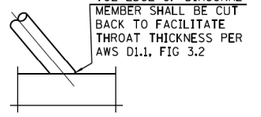

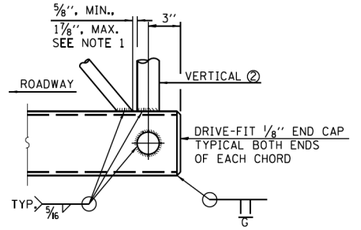

TABLE C: TRUSS AND POST DETAILS FOR 15'-0'' (MAX.) SIGN HEIGHT

DESIGN SPAN LENGTH (L)	TRUSS TYPE	TRUSS SIZE		ACTUAL SPAN LENGTH	MAXIMUM SIGN LENGTH	STEEL SUPPORT POST (COLUMN)				TRUSS MEMBERS AND DETAILS														FOUNDATION TYPE	
		e	d			DIAMETER	WEIGHT	WALL THICKNESS	H (MAX.)	TOP & BOTTOM CHORD ①	VERTICAL ②		VERTICAL DIAG. ③		HORIZONTAL ④		HORIZONTAL DIAG. ⑤		INTERIOR DIAG. ⑥		PANELS				
											PIPE	WALL	PIPE	WALL	PIPE	WALL	PIPE	WALL	PIPE	WALL	NO.	P	S	CIRCULAR	BARRIER
15'	15-D	2'-0''	5'-6''	15'-1''	11'-3''	16''	160.35 (#/FT)	1''	28'-6''	HSS 4x4x¼	2''Ø X.S	0.204''	2½''Ø X.X.S	0.514''	1¼''Ø X.S	0.178''	1½''Ø X.S	0.186''	1¼''Ø X.S	0.178''	3	4'-6''	1'-4''	I-C	I-BW
20'	20-D	2'-6''	5'-6''	20'-1''	15'-0''	20''	203.11 (#/FT)	1''	28'-6''	HSS 5x5x¼	2½''Ø X.S	0.257''	3''Ø X.X.S	0.559''	1½''Ø X.S	0.186''	2½''Ø X.S	0.257''	1½''Ø X.S	0.186''	4	4'-7''	1'-6''	II-C	II-BW
25'	25-D	3'-0''	5'-6''	24'-11''	18'-9''	24''	245.87 (#/FT)	1''	28'-6''	HSS 5x5x¼	2½''Ø X.S	0.257''	3''Ø X.X.S	0.559''	2''Ø X.S	0.204''	2½''Ø X.S	0.257''	2''Ø X.S	0.204''	5	4'-7''	1'-9''	III-C	III-BW
30'	30-D	3'-6''	7'-0''	30'-2''	21'-0''	28''	288.63 (#/FT)	1''	30'-0''	HSS 6x6x¼	3''Ø X.S	0.280''	4''Ø X.X.S	0.628''	2''Ø X.S	0.204''	2½''Ø X.S	0.257''	2''Ø X.S	0.204''	5	5'-7''	2'-0''	IV-C	IV-BW
35'	35-D	4'-0''	7'-0''	35'-0''	21'-0''	32''	331.39 (#/FT)	1''	30'-0''	HSS 6x6x¼	3''Ø X.S	0.280''	4''Ø X.X.S	0.628''	2''Ø X.S	0.204''	2½''Ø X.S	0.257''	2''Ø X.S	0.204''	5	6'-6''	2'-3''	V-C	V-BW
40'	40-D	4'-0''	7'-0''	40'-0''	21'-0''	36''	374.15 (#/FT)	1''	30'-0''	HSS 6x6x¼	3''Ø X.S	0.280''	4''Ø X.X.S	0.628''	2''Ø X.S	0.204''	2½''Ø X.S	0.257''	2''Ø X.S	0.204''	6	6'-3''	2'-3''	VI-C	VI-BW
45'	45-D	4'-6''	7'-0''	45'-0½''	21'-0''	38''	395.53 (#/FT)	1''	30'-0''	HSS 6x6x¼	3''Ø X.S	0.280''	4''Ø X.X.S	0.628''	2''Ø X.S	0.204''	2½''Ø X.S	0.257''	2''Ø X.S	0.204''	7	6'-0½''	2'-6''	VII-C	VII-BW
50'	50-D	4'-6''	7'-0''	50'-1''	21'-0''	40''	416.91 (#/FT)	1''	30'-0''	HSS 6x6x¼	3''Ø X.S	0.280''	4''Ø X.X.S	0.628''	2''Ø X.S	0.204''	2½''Ø X.S	0.257''	2''Ø X.S	0.204''	8	5'-11''	2'-6''	VIII-C	VIII-BW

NOTES:

1. SPACE TRUSS MEMBERS SHALL BE SPACED A MINIMUM OF 3 TIMES THE WALL THICKNESS OF THE LARGEST CONNECTING MEMBERS TO ENSURE PROPER WELD SPACING.
2. FOR SECTIONS B-B, C-C, D-D, E-E AND F-F SEE SHEET 3 OF THIS SERIES.
3. FOR SIGN AND LUMINAIRE SUPPORT DETAILS, SEE STANDARD F8.
4. DIRECTION OF INTERIOR DIAGONALS SHOWN IN SECTION A-A CORRECTLY DEPICTS TRUSSES HAVING AN ODD NUMBER OF PANELS. TRUSSES WITH AN EVEN NUMBER OF PANELS WILL HAVE DIAGONALS IN A REVERSED DIRECTION THAN AS SHOWN.
5. FOR ANY DESIGN SPAN LENGTH THAT FALL BETWEEN TWO CONSECUTIVE SPANS, PROVIDED IN COLUMN 1 OF TABLE C, THE LARGER DESIGN SPAN LENGTH SHALL BE USED (I.E. FOR A 32' SPAN LENGTH FALLING BETWEEN 30' AND 35' DESIGN SPAN LENGTHS IN TABLE C, THE 35' DESIGN SPAN LENGTH TRUSS AND POST DETAILS SHALL BE USED).

Paul Kovacs
APPROVED ..... CHIEF ENGINEER
DATE 2-7-2012

Illinois Tollway
Open Roads for a Faster Future

OVERHEAD SIGN STRUCTURE
CANTILEVER TYPE, STEEL

STANDARD F4-01

BOWMAN, BARRETT & ASSOCIATES INC.
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Chicago, Illinois
312.228.0100
www.bbandainc.com

FILE NAME = $FILES$	USER NAME = default	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = H:1'=10' V:1'=5'	CHECKED - RGR	REVISED -
	PLOT DATE = 6/18/2012	DATE - 6/19/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOLLWAY STANDARD DRAWING

SCALE: | SHEET NO. N/A OF N/A SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1-R-1	LAKE	677	662B
		CONTRACT NO. 60L77		
	ILLINOIS FED. AID PROJECT			