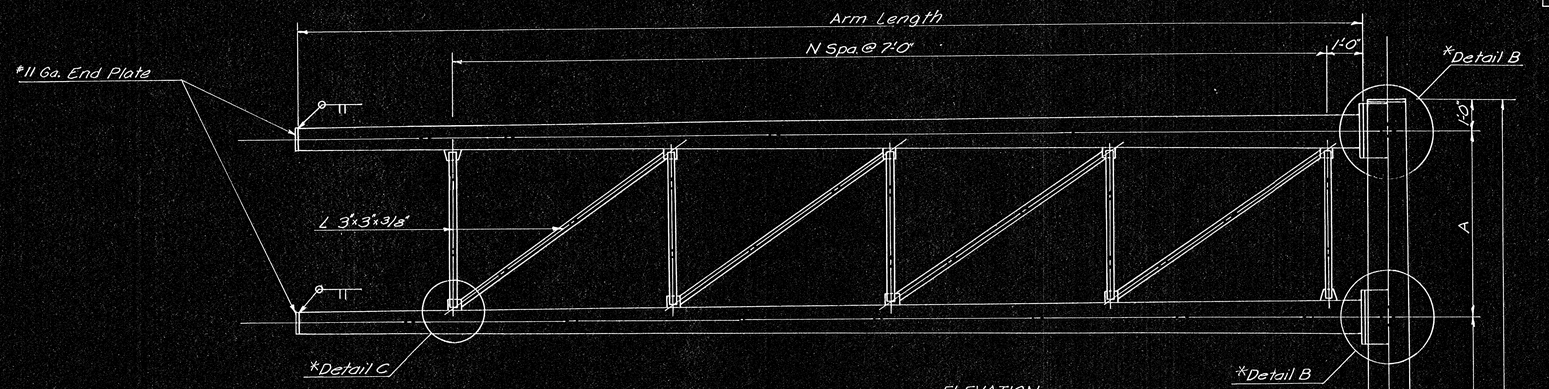
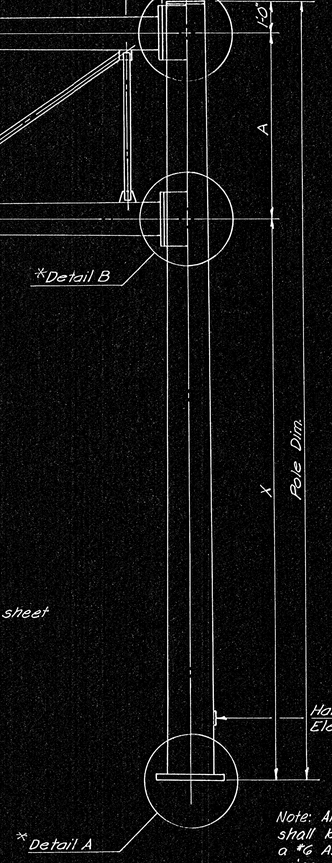
FHWA REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	(BC)96-87-K044-I(28)	19-8	116	143





GENERAL NOTES

Design conforms to A.A.S.H.T.O. Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals 1975 Edition. Design Wind Speed = 85 mph.

All material shall be hot dip galvanized after fabrication according to ASTM-A123 requirements. Any damage to the coating shall be repaired after erection.

All H.S. bolts nuts and washers shall conform to ASTM-A325 and shall be galvanized in accordance with A153. One washer shall be used under the turned element.

All welding shall conform to AWS Specifications.

All steel plate shall conform to ASTM-A36.

Cast iron pole top shall be Union Metal Type 103-J or other approved top. The top shall be secured in place with set screws and shall be galvanized according to ASTM-A123 requirements.

Structural steel shapes shall conform to ASTM-A36.

The pole and arms shall conform to ASTM-A595 except that the tubes shall have a minimum guaranteed yield strength of 52,000 p.s.i.

Unless otherwise shown all fasteners shall be regular steel bolts and nuts with lockwashers. They shall conform to State Highway Commission Standard Specifications and shall be coated.

*Note: See following sheet for Details A, B, & C

Note: See Construction Layouts for X, N, Arm Length, and Design No.

Note: All overhead sign structures shall be grounded by means of a #6 A.W.G. copperweld ground wire, connected to a 3/4" x 10'-0" ground rod.

Dimension / Design	Pole Dimension	Arm Dimension	A		T1	S	F	B.C.	W1	W2	P	Anchor Bolt Size	T2	G	E	W3	W4	H	J	Bolt Size	W5
1	3ga.15" *	3ga.9.2" * (20'-0")	4'-0"		2"	1'-11"	1'-3 1/2"	1'-10"	3/8"	1 1/4"	7 3/8"	2"	3/8"	3 1/4"	1'-7 1/2"	3/8"	1 1/4"	1'-5 1/2"	7 1/4"	7/8"x4"	1 1/4"
2	3ga.15" *	3ga.9.2" * (24'-0")	4'-0"		2"	1'-11"	1'-3 1/2"	1'-10"	3/8"	1 1/4"	7 3/8"	2"	3/8"	3 1/4"	1'-7 1/2"	3/8"	1 1/4"	1'-5 1/2"	7 1/4"	7/8"x4"	1 1/4"
3	3ga.13" *	7ga.11" * (22'-0")	6'-0"		2"	2'-2 1/2"	1'-6"	2'-1 1/2"	3/16"	1 1/4"	7 3/8"	2"	3/8"	9 1/2"	1'-9 1/2"	3/16"	1 1/2"	1'-5 1/2"	7 1/4"	1"x3 3/4"	1 1/4"
4	3ga.13" *	7ga.12.5" * (26'-0")	6'-0"		2"	2'-2 1/2"	1'-6"	2'-1 1/2"	7/16"	1 1/4"	7 3/8"	2"	3/8"	9 3/8"	1'-10 1/4"	3/16"	1 1/2"	1'-6 1/4"	8 3/8"	1"x4"	1 1/4"
5	3ga.13" *	7ga.12.5" * (24'-0")	6'-0"		2 1/16"	2'-2 1/2"	1'-6"	2'-1 1/2"	7/16"	5/16"	9 3/16"	2 1/4"	3/8"	9 3/8"	1'-10 1/4"	3/16"	1 1/2"	1'-6 1/4"	8 3/8"	1"x4"	1 1/4"
6	0ga.18" *	3ga.12.5" * (28'-0")	6'-0"		2 1/16"	2'-2 1/2"	1'-6"	2'-1 1/2"	7/16"	5/16"	9 3/16"	2 1/4"	3/8"	9 3/8"	1'-11 1/4"	3/8"	1 1/2"	1'-9 1/4"	8 3/8"	1"x4"	1 1/4"
7	0ga.18" *	0ga.13" * (34'-0")	6'-0"		2 1/16"	2'-2 1/2"	1'-6"	2'-1 1/2"	7/16"	5/16"	9 3/16"	2 1/4"	1 1/16"	10"	2'-0"	1 1/16"	5 1/16"	1'-9 1/2"	8 3/4"	1 1/8"x4 1/4"	1 1/4"

*Note: All tubes have a decreasing taper of .14"/ft.

Note: Dimension in parentheses in the "Arm Dimension" column is the maximum for that design.

NO.	DATE	REVISIONS	BY:	APP'D
3				
2				
1				

DEPARTMENT OF TRANSPORTATION - KANSAS

STANDARD STRUCTURAL SIGN SUPPORTS CANTILEVER TYPE OVERHEAD STEEL SUPPORT DETAILS

8-75

SHEET NO. 116 OF 143	SCALE: Varies	APP'D	
DESIGNED: BPM	DETAILED: BPM	QUANTITIES	TRACED: RBA
DESIGN CK.: NAW	DETAIL CK.: NAW	QUAN. CK.	TRACE CK.: BPM