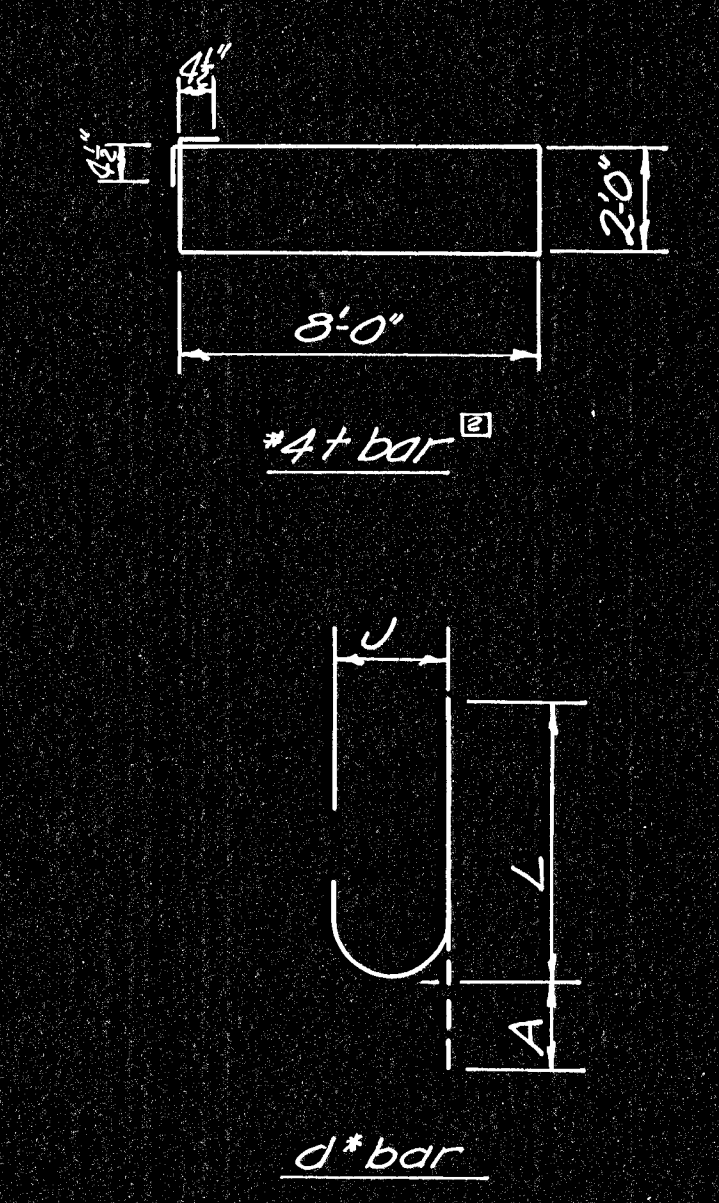
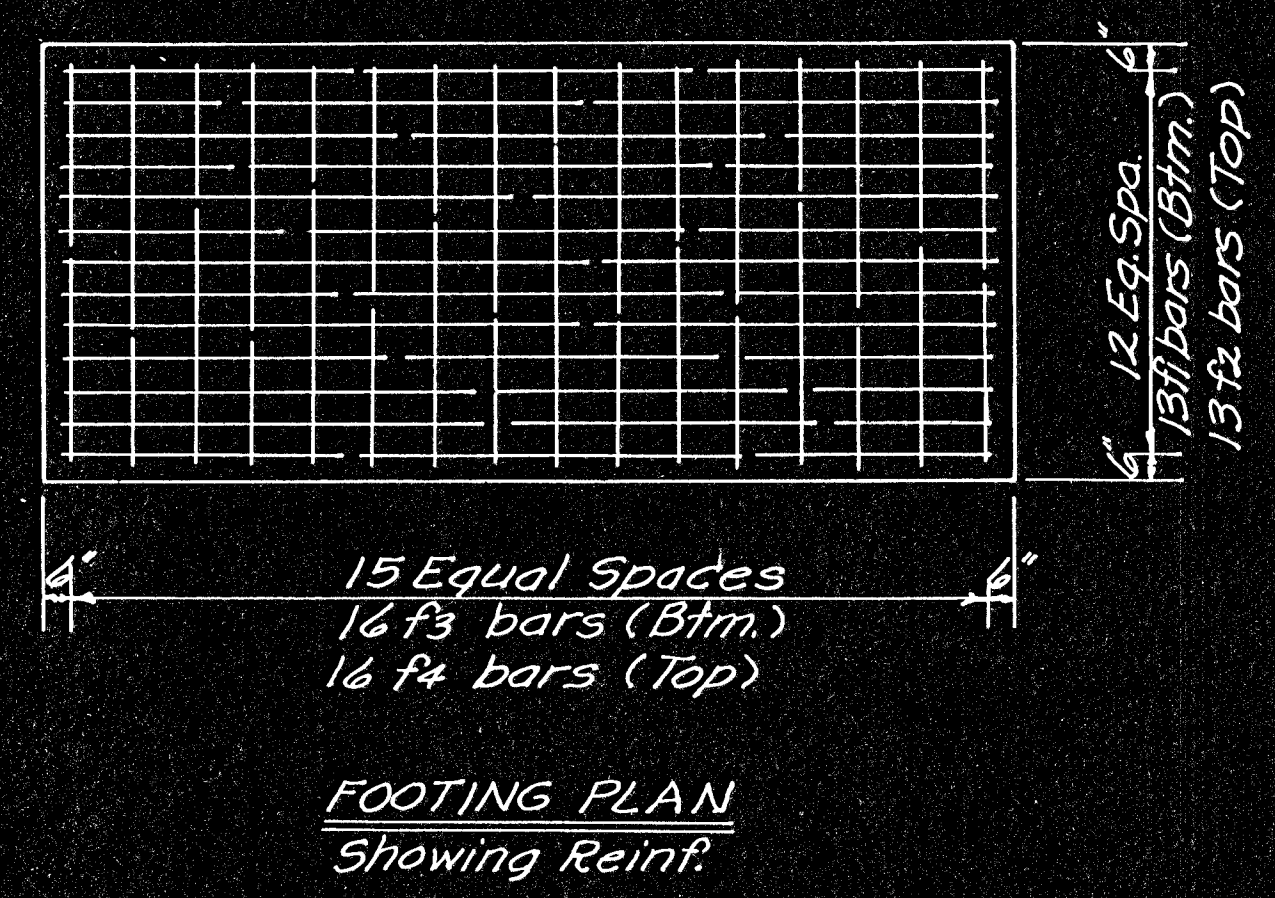
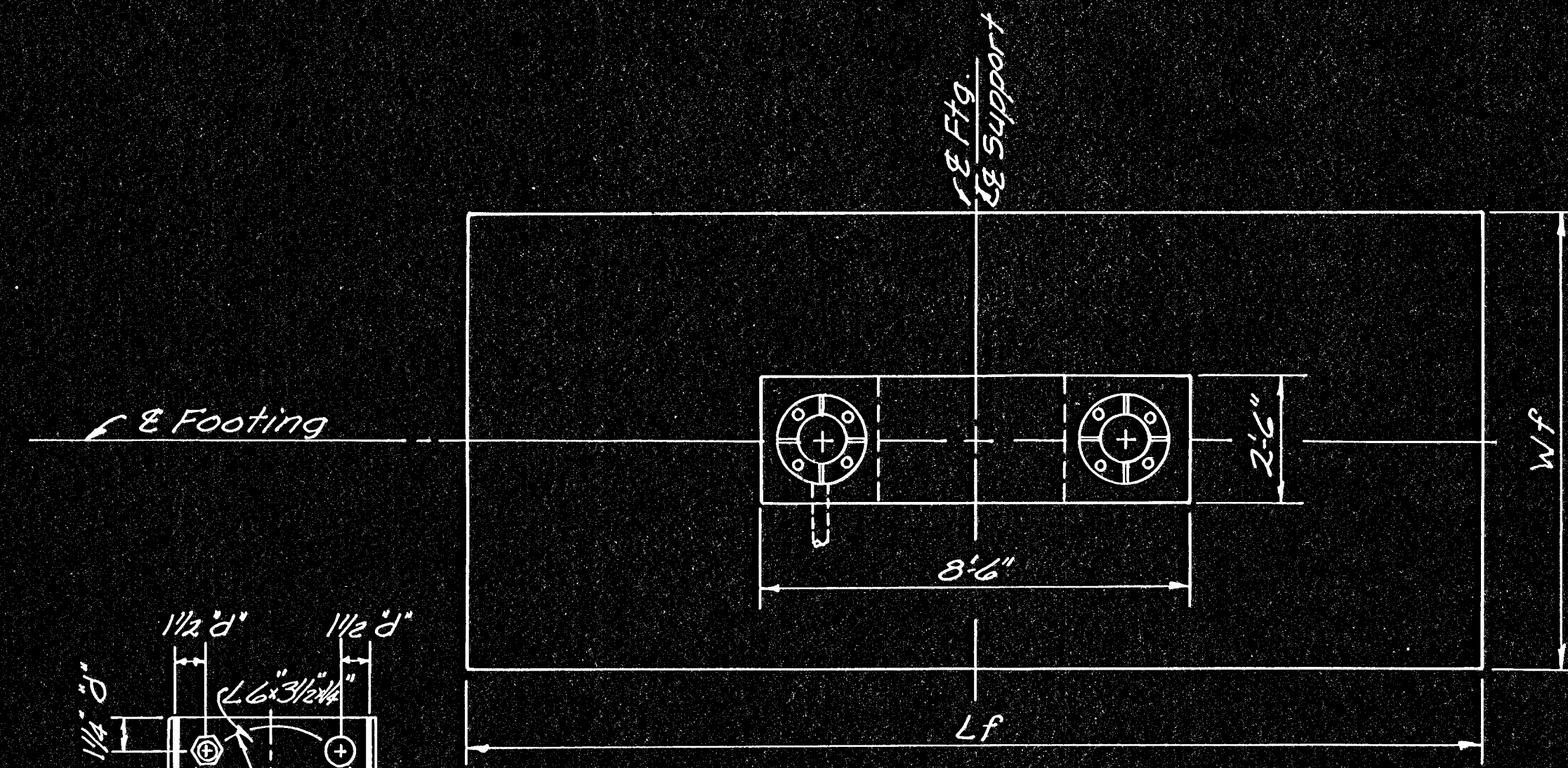


**TYPICAL EXCAVATION DETAILS**

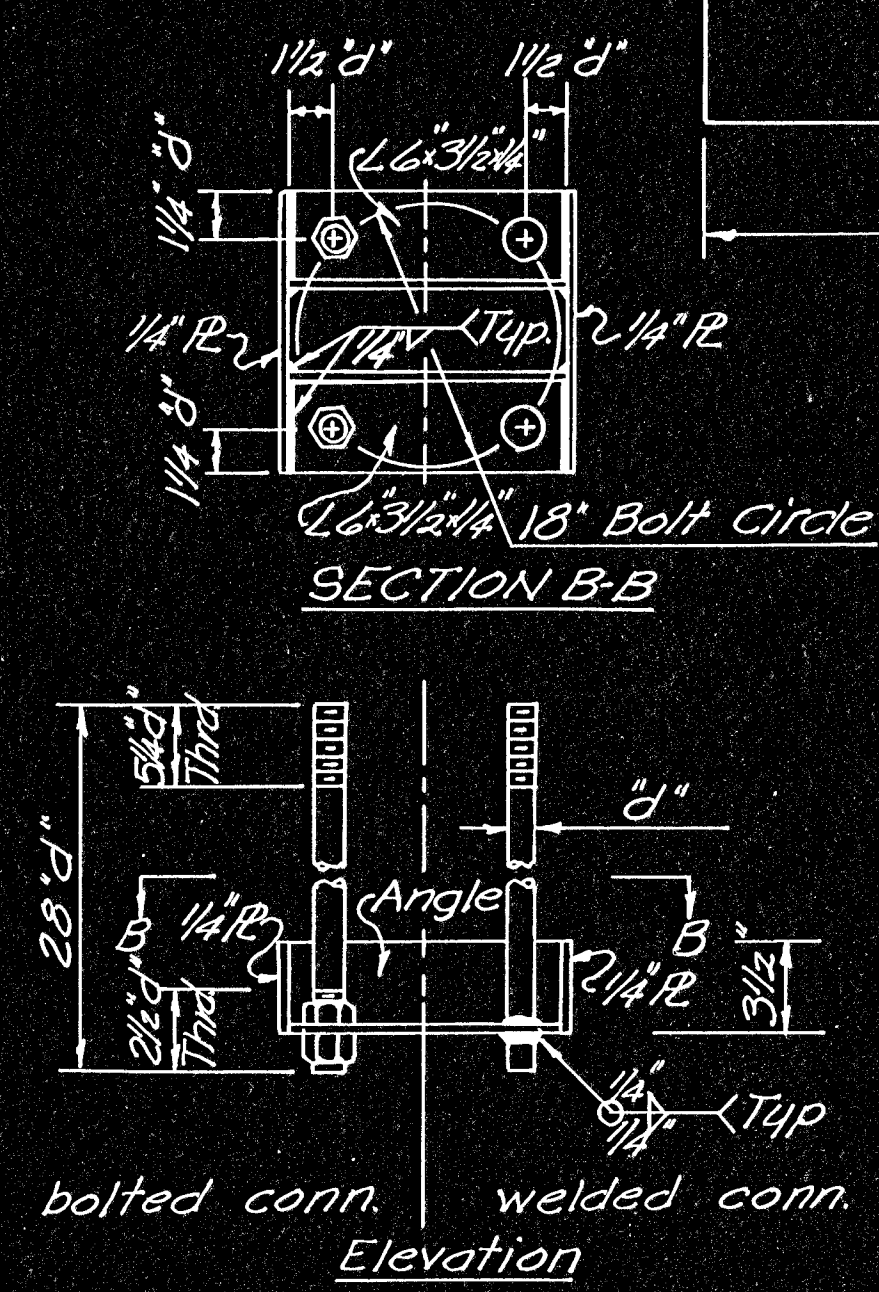
**GENERAL NOTES**

**LOADING:** A.A.S.H.T.O. Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 1975 Ed.  
**CONCRETE:** Use Class A Concrete throughout. Bevel all exposed edges with a 3/4" triangular moulding.  
**UNIT STRESSES:**  $f_c = 1,200$  p.s.i.;  $f_r = 3,000$  p.s.i.;  $f_s = 20,000$  p.s.i.  
**REINFORCING:** All dimensions relative to reinforcing steel are to center line of bar unless otherwise noted.  
**EXCAVATION:** When rock or hard shale is encountered, all excavation below the top of this material shall be to neat lines. See excavation details.  
**BACKFILL:** Backfill material shall be placed in one foot lifts and each lift shall be thoroughly compacted before the next lift is placed.  
**ANCHOR BOLT ASSEMBLY:** Anchor bolts shall conform to K.S.H.C. Standard Specifications Sub-Section 1006.15 and shall be Type II. Angles and plates shall conform to ASTM A 36. Welding shall conform to K.S.H.C. Standard Specifications and the latest edition of the American Welding Society Specifications.



**Table for d bars**

Size	A	U	L
#6	8"	6"	3'-9"
#7	10"	7"	4'-0"
#8	11"	8"	4'-3"
#9	1'-3"	11 1/4"	4'-6"
#10	1'-5"	1'-0 3/4"	4'-11"
#11	1'-7"	1'-2 1/4"	5'-3"



**ANCHOR BOLT ASSEMBLY DETAIL**  
See end support framing plan sheet for anchor bolt "d".

Note: Contractor may combine d & p bars into one bar.

**BENDING DIAGRAMS**  
All dimensions are out to out

FOOTING TYPE	DIMENSIONS		BILL OF REINFORCING										SUMMARY OF QUANTITIES						
	Lf	WF	20 d* bars		13 f1 bars		13 f2 bars		16 f3 bars		16 f4 bars		20 p* bars		B + t bars		Class III Excavation Cu. Yds.	Class A Concrete Cu. Yds.	Reinf. Steel Lbs.
A	15'-0"	6'-9"	#6 4'-5"	#4 14'-6"	#4 14'-6"	#4 6'-3"	#4 6'-3"	#6 7'-9"	#4 20'-9"								72	13.8	860
B	16'-0"	7'-3"	#6 4'-5"	#4 15'-6"	#4 15'-6"	#4 6'-9"	#4 6'-9"	#6 7'-9"	#4 20'-9"								79	14.9	890
C	17'-0"	7'-9"	#7 4'-10"	#4 16'-6"	#4 16'-6"	#4 7'-3"	#4 7'-3"	#7 7'-9"	#4 20'-9"								87	16.1	1065
D	18'-0"	8'-0"	#7 4'-10"	#4 17'-6"	#4 17'-6"	#4 7'-6"	#4 7'-6"	#7 7'-9"	#4 20'-9"								93	17.0	1090
E	19'-0"	8'-6"	#8 5'-2"	#5 18'-6"	#5 18'-6"	#4 8'-0"	#4 8'-0"	#8 7'-9"	#4 20'-9"								101	18.3	1470
F	20'-0"	9'-0"	#8 5'-2"	#6 19'-6"	#6 19'-6"	#4 8'-6"	#4 8'-6"	#8 7'-9"	#4 20'-9"								110	19.6	1743
G	21'-0"	9'-6"	#9 5'-9"	#6 20'-6"	#6 20'-6"	#5 9'-0"	#5 9'-0"	#9 7'-9"	#4 20'-9"								119	21.1	2130
H	22'-0"	10'-0"	#9 5'-9"	#7 21'-6"	#7 21'-6"	#5 9'-6"	#5 9'-6"	#9 7'-9"	#4 20'-9"								128	22.6	2485
I	23'-0"	10'-6"	#10 6'-4"	#7 22'-6"	#7 22'-6"	#6 10'-0"	#6 10'-0"	#10 7'-9"	#4 20'-9"								138	24.2	2998
J	24'-0"	11'-0"	#11 6'-10"	#8 23'-6"	#8 23'-6"	#6 10'-6"	#6 10'-6"	#11 7'-9"	#4 20'-9"								148	25.9	3795

Approx. Excavation for loose material.

See Construction Layout Sheet for Footing Type

3	9-5-73	Rev. stir up hook dimension	LES	G.E.W.
2	7-18-73	Rev. to conform to 1973 Std. Spec.	LES	G.E.W.
NO.	DATE	REVISIONS	BY	APP'D

DEPARTMENT OF TRANSPORTATION-KANSAS  
**STANDARD STRUCTURAL SIGN SUPPORTS**  
**SPAN TYPE OVERHEAD**  
**FOOTING DETAILS**

SHEET NO. 120 OF 143 SCALE: APP'D: DESIGNED: KEH DETAILED: KEH QUANTITIES: KEH TRACED: RBA DESIGN CK: LES DETAIL CK: LES QUAN. CK: LES TRACE CK: BEM