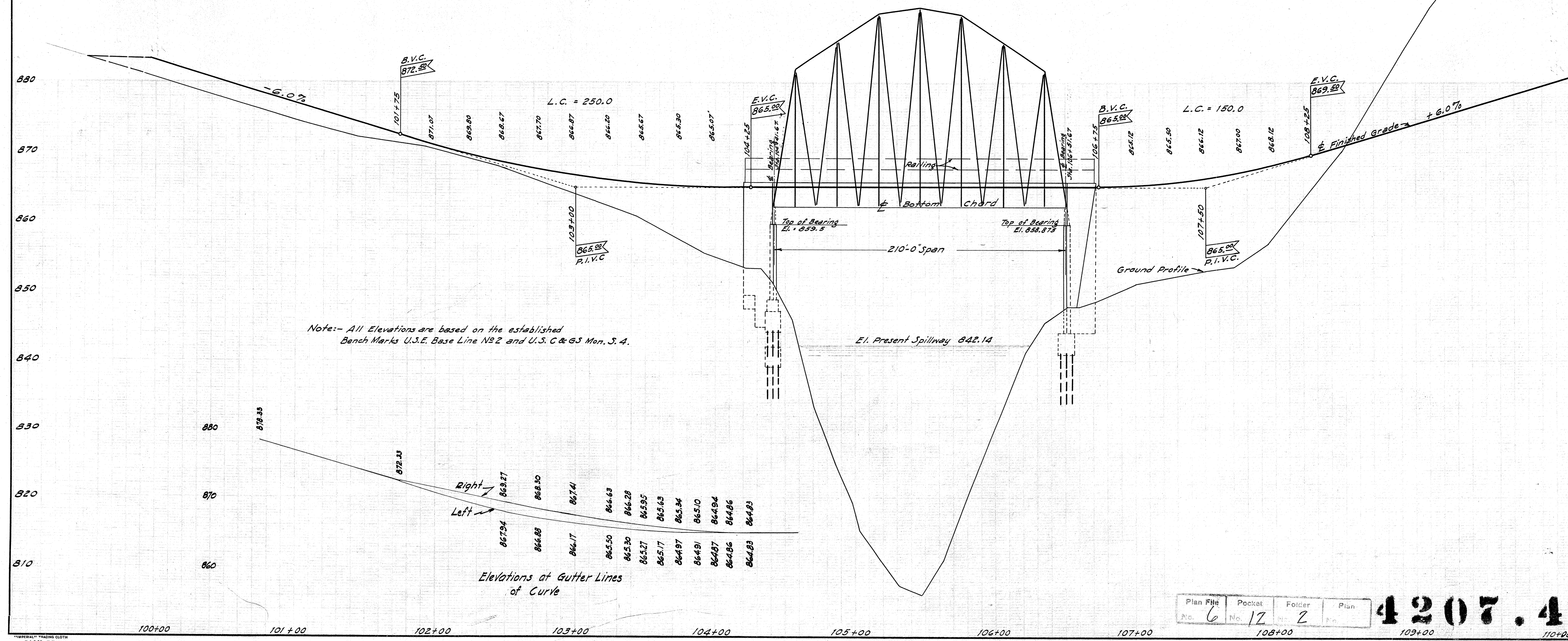
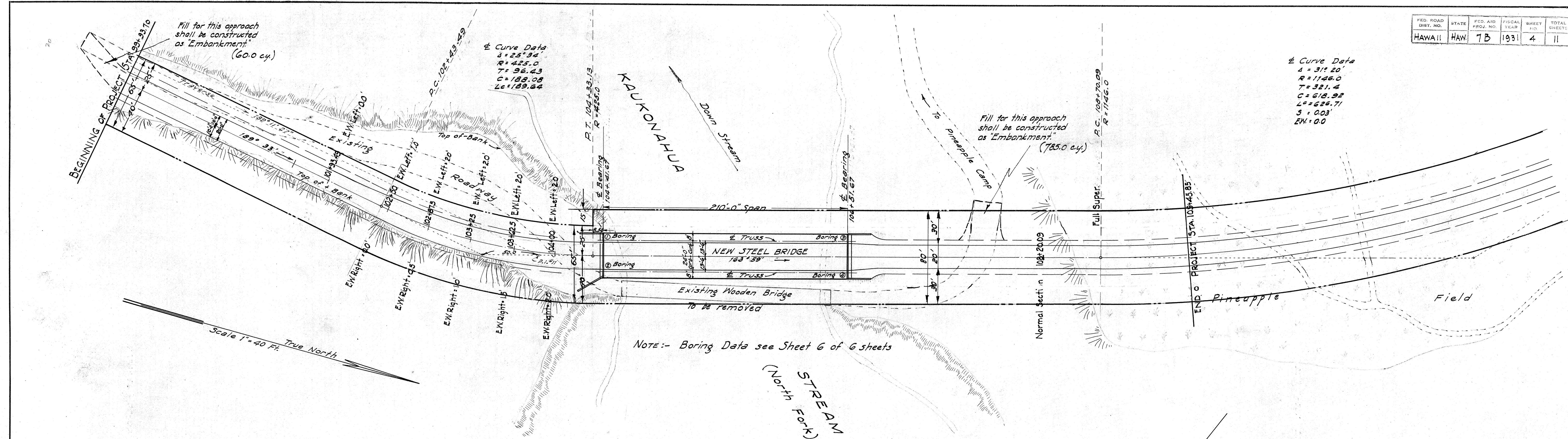


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	7B	1931	4	11

± Curve Data
 $\Delta = 25^{\circ} 24'$
 $R = 425.0$
 $T = 96.43$
 $C = 189.09$
 $L = 189.64$

± Curve Data
 $\Delta = 31^{\circ} 20'$
 $R = 1146.0$
 $T = 321.4$
 $C = 618.92$
 $L = 626.71$
 $S = 0.03$
 $EW = 0.00$



Kaukonahua Bridge Karsten Thot Bridge

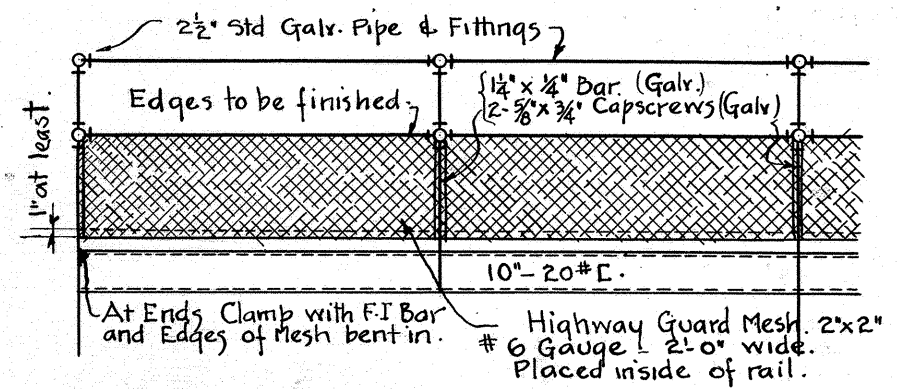
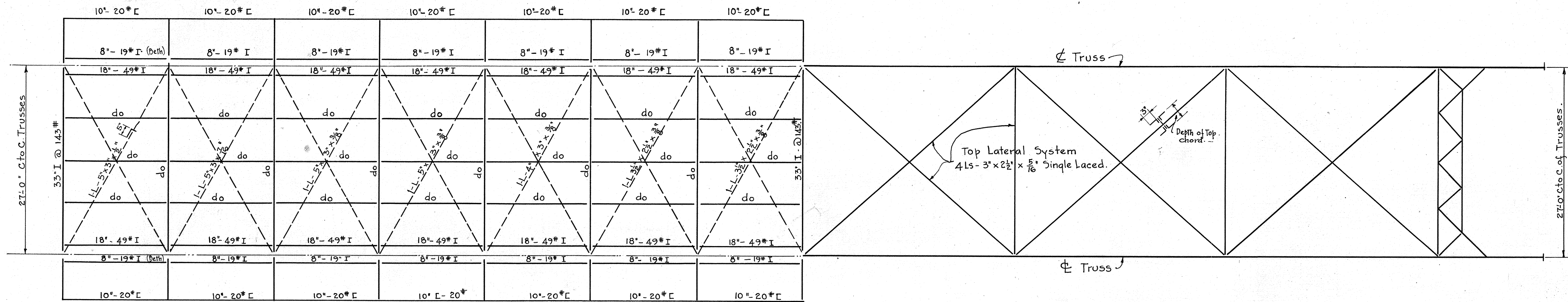
OFFICE OF THE CITY & COUNTY ENGINEER HONOLULU, HAWAII	
BRIDGE OVER "NORTH FORK" KAUKONAHUA STREAM WAHIAWA	
LOCATION PLAN & PROFILE	
ENGINEER: G. K. P. - J. L. P.	DATE: _____
DRAFTSMAN: R. A. A.	CHECKED BY: _____
SCALE: 1" = 40 ft.	APPROVED: _____
CITY & COUNTY ENGINEER	

Plan File	Pocket	Folder	Plan
No. 6	No. 12	No. 2	No. 1

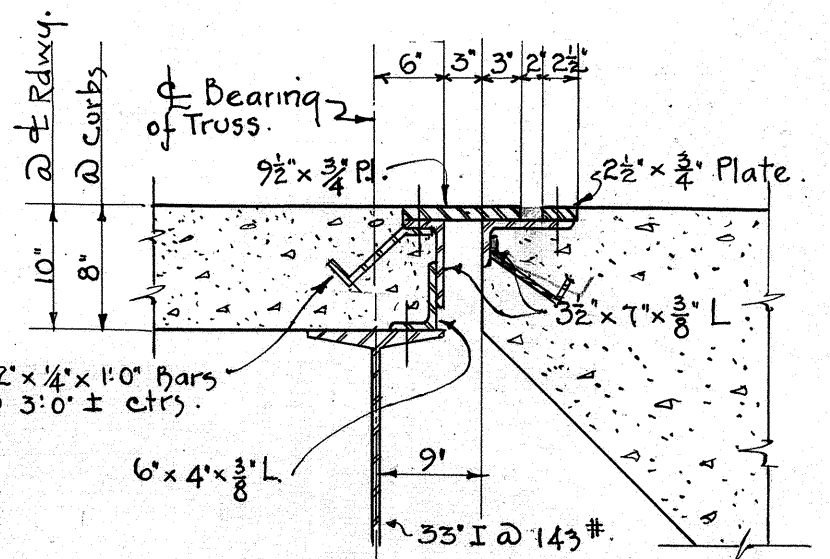
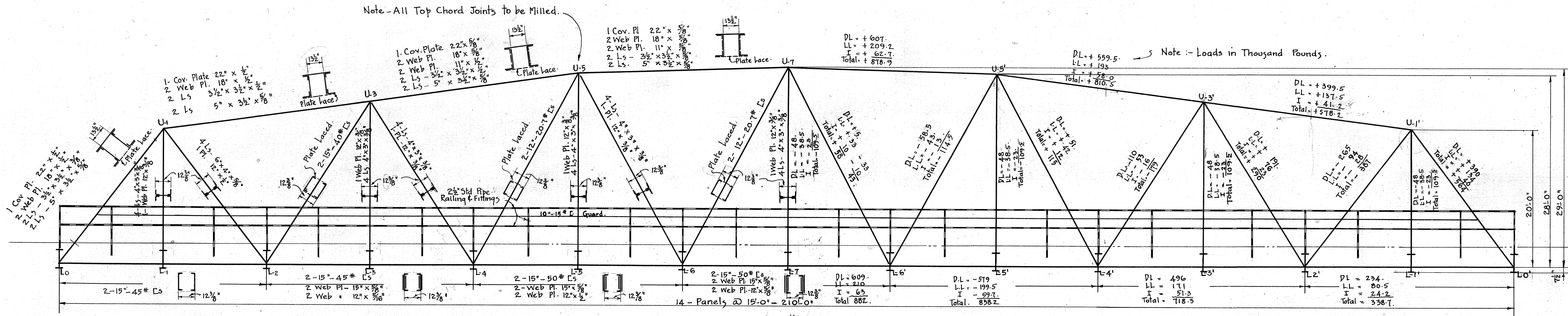
4207.4

SHEET 1 OF 6 SHEETS

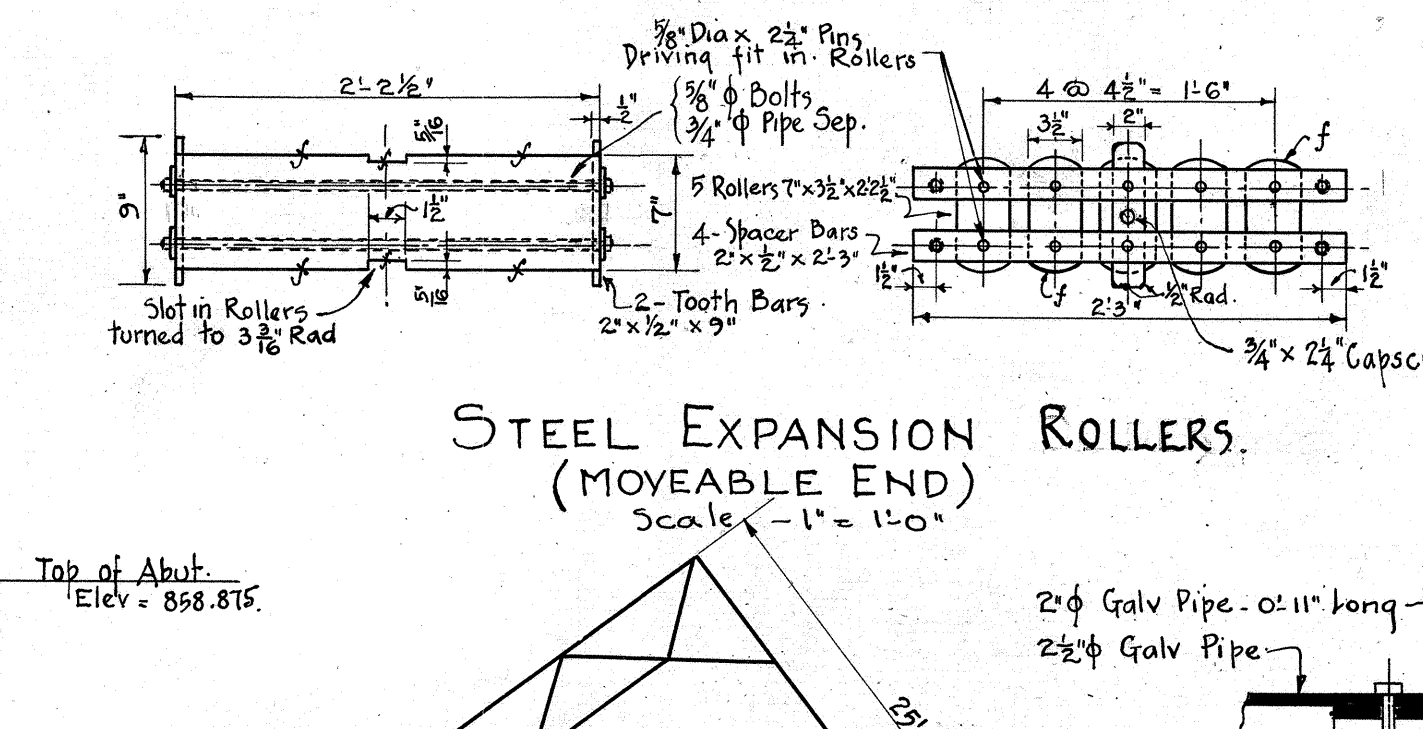
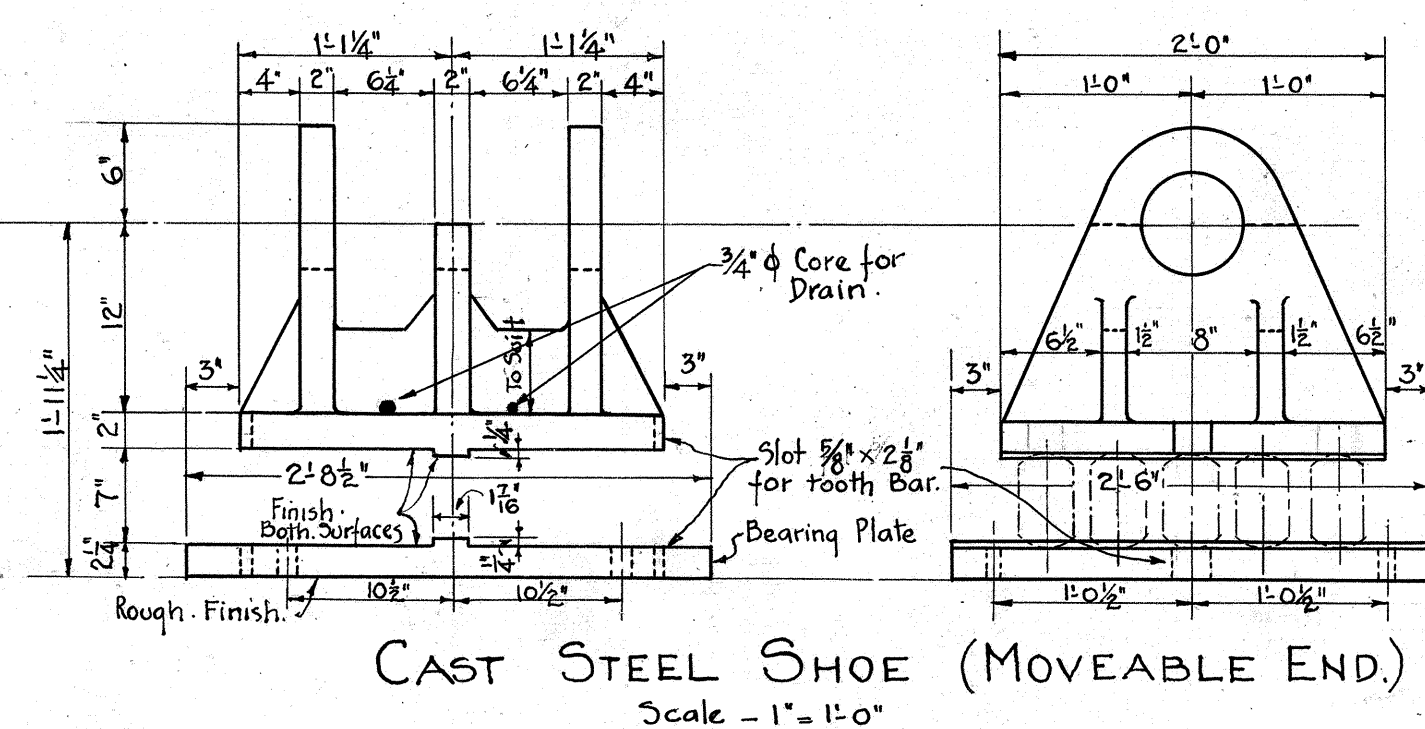
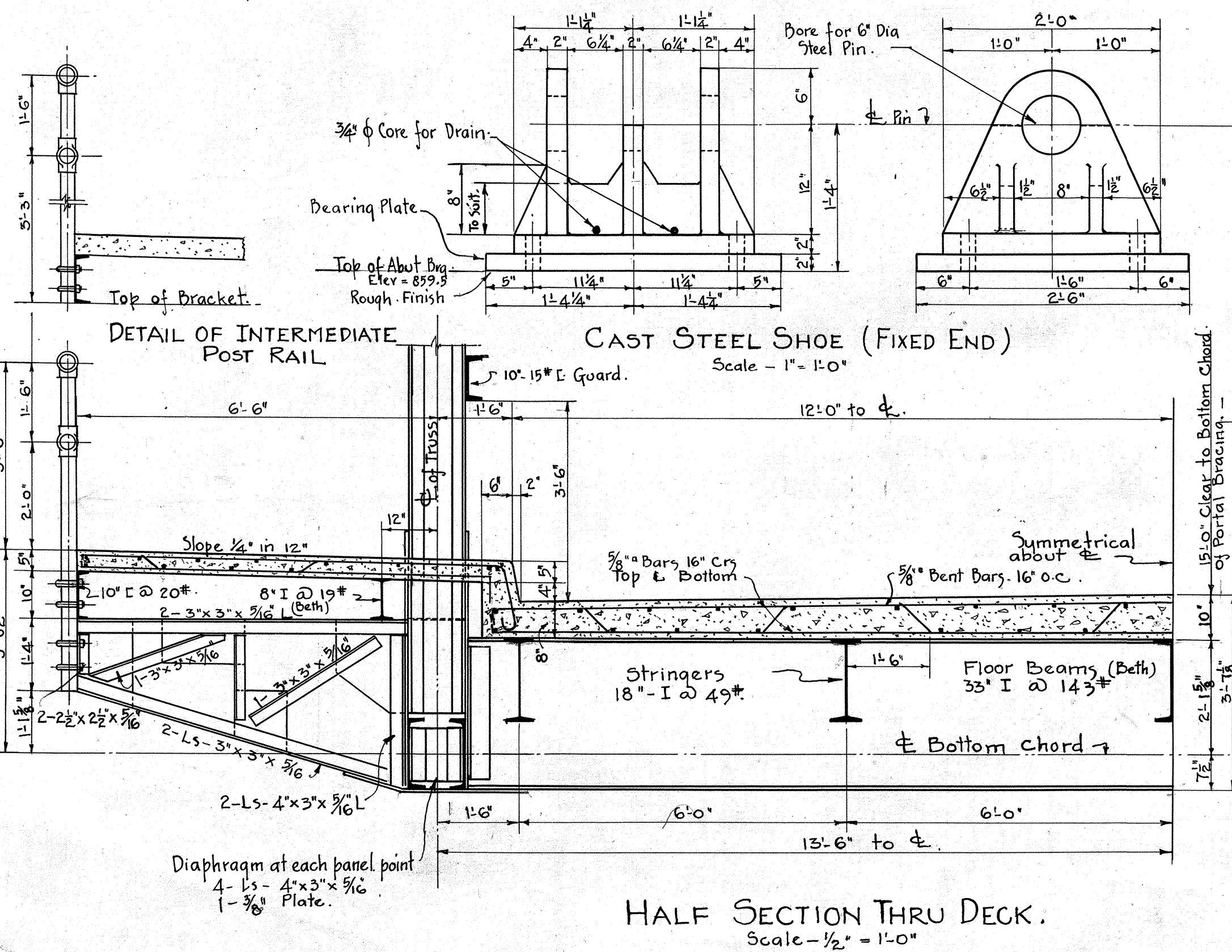
FILE	POCKET	FOLDER	NO.
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DIAGRAMMATIC ELEVATION OF RAILING SHOWING MESH & METHOD OF FASTENING.

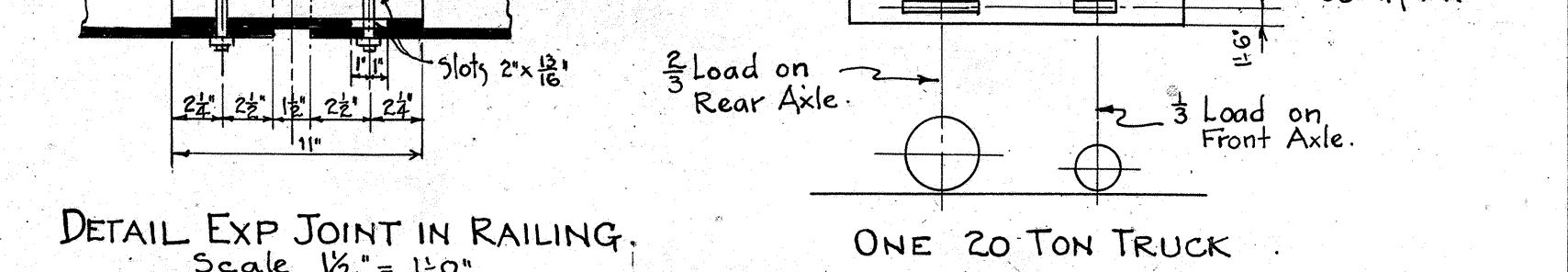
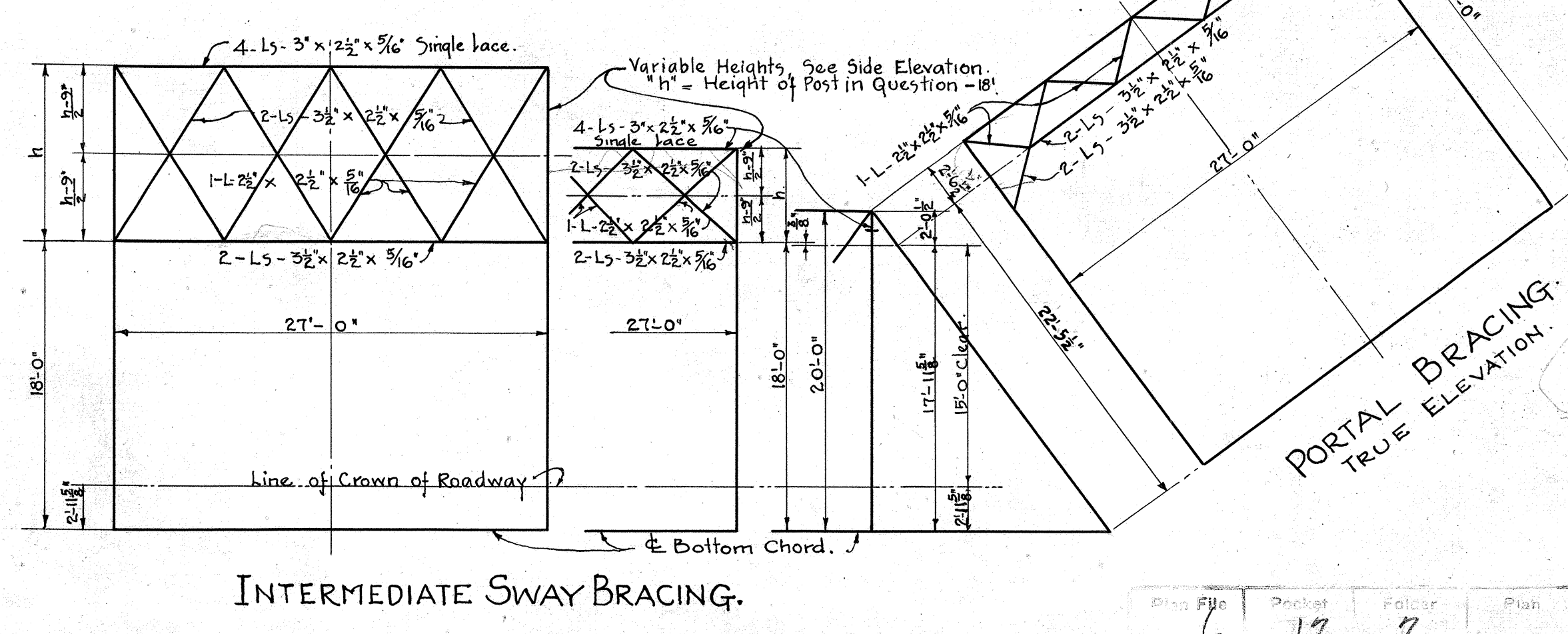


DETAIL AT EXPANSION JOINT AT ABUTMENT. (See Sheet 6.) Use asphaltic joint at sidewalk where shown. Scale 3/4" = 1'-0".



DESIGN NOTES:

- Roadway floor system - 2-20 Ton Trucks as per sketch.
- Truss Members - Uniform Live Load of 65# per sq ft over entire roadway, and 40# per sq ft over sidewalk area.
- Impact - 30% for all members except hangers, which are figured for 60%.



OFFICE OF THE CITY & COUNTY ENGINEER
HONOLULU, HAWAII

BRIDGE OVER NORTH FORK "KAUKONAHUA STREAM"
WAHIAWA

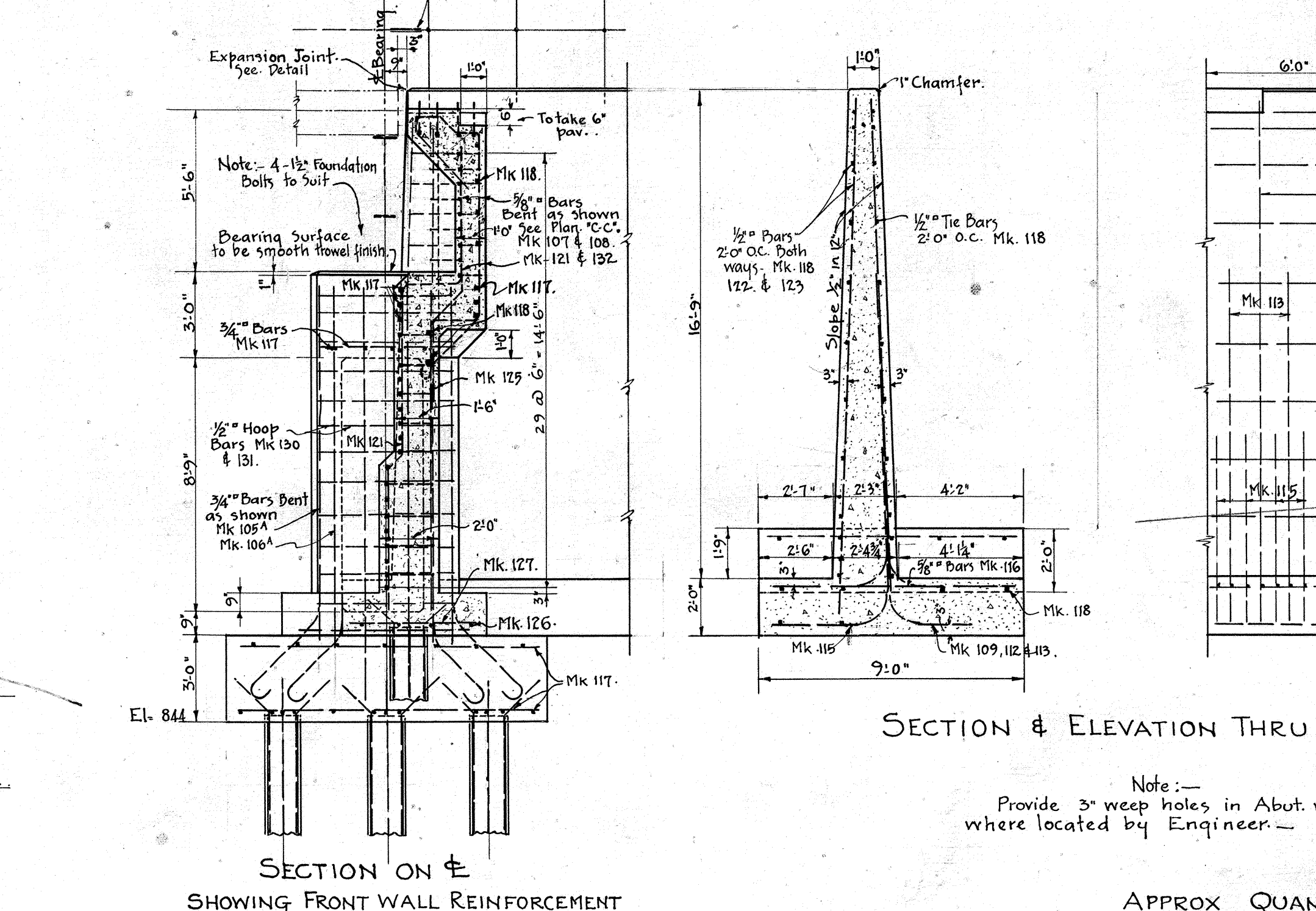
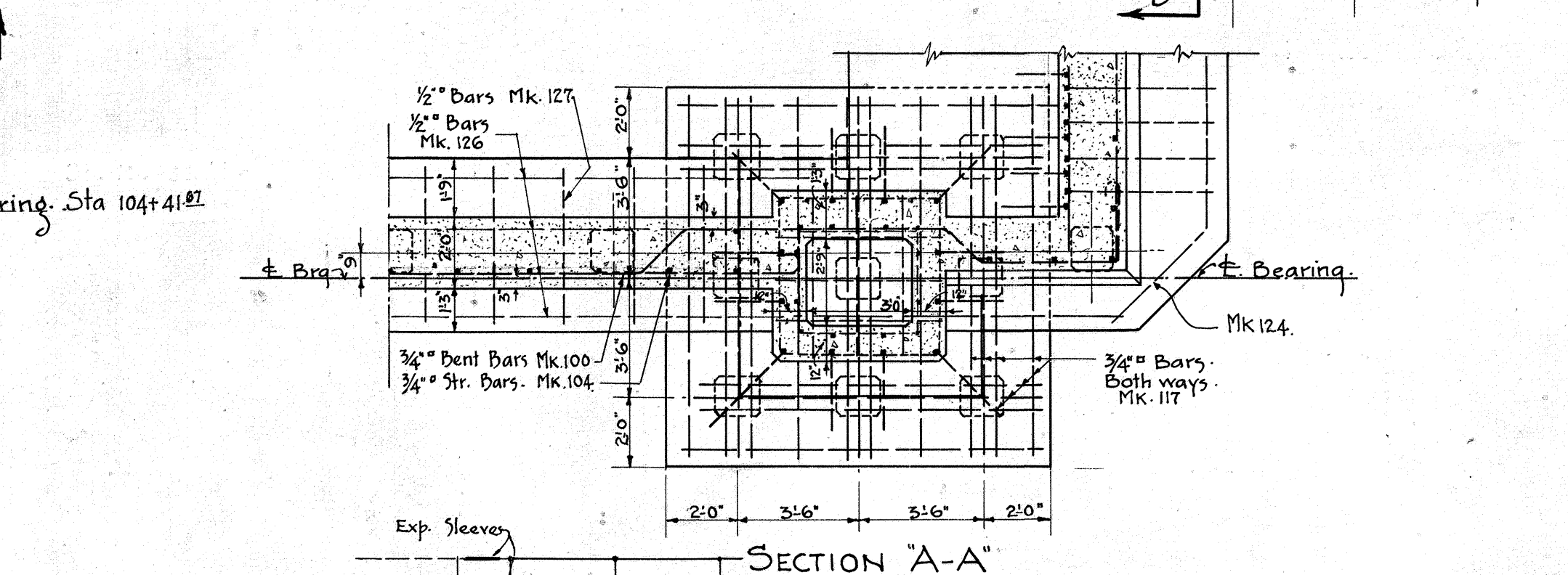
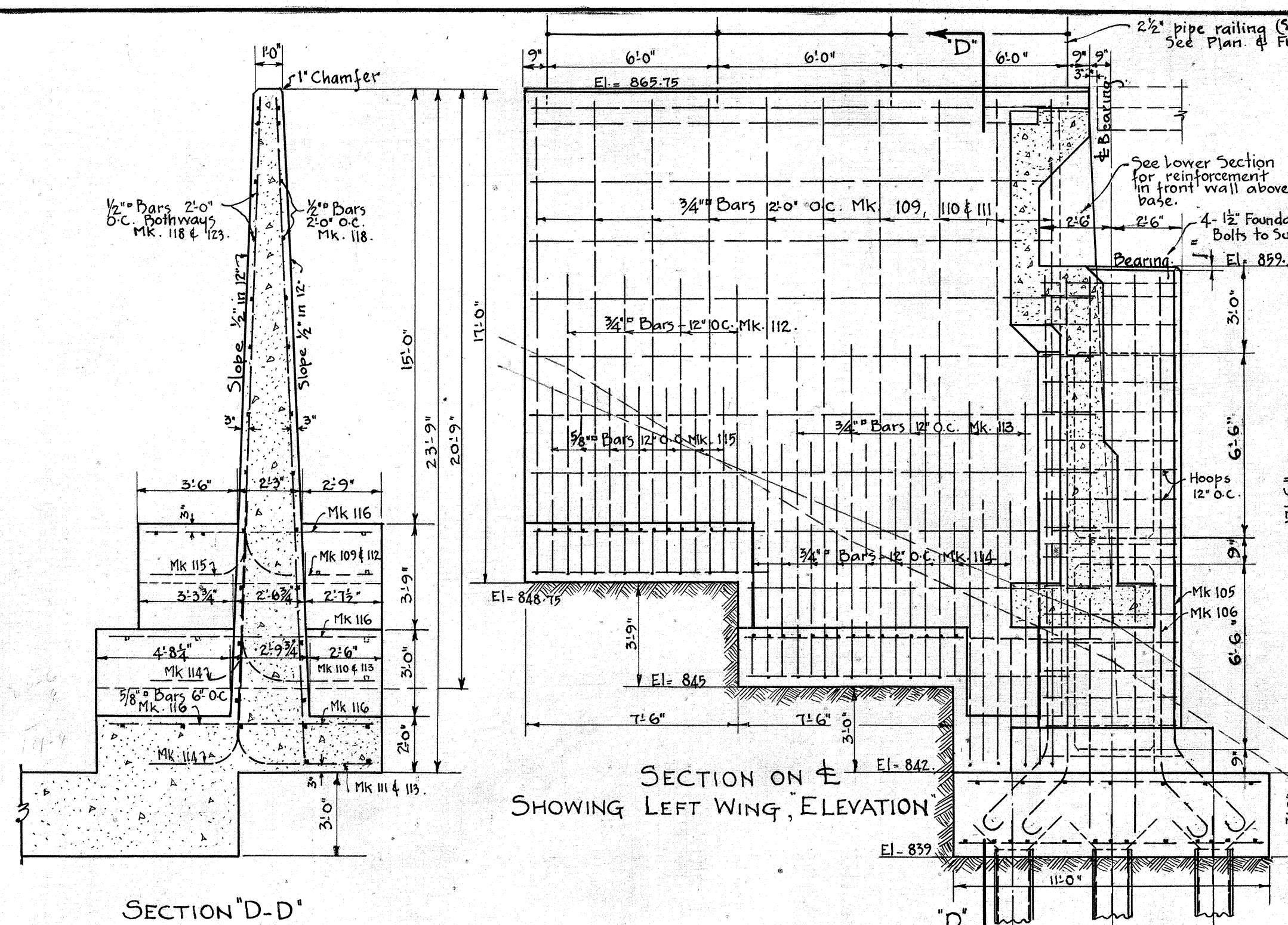
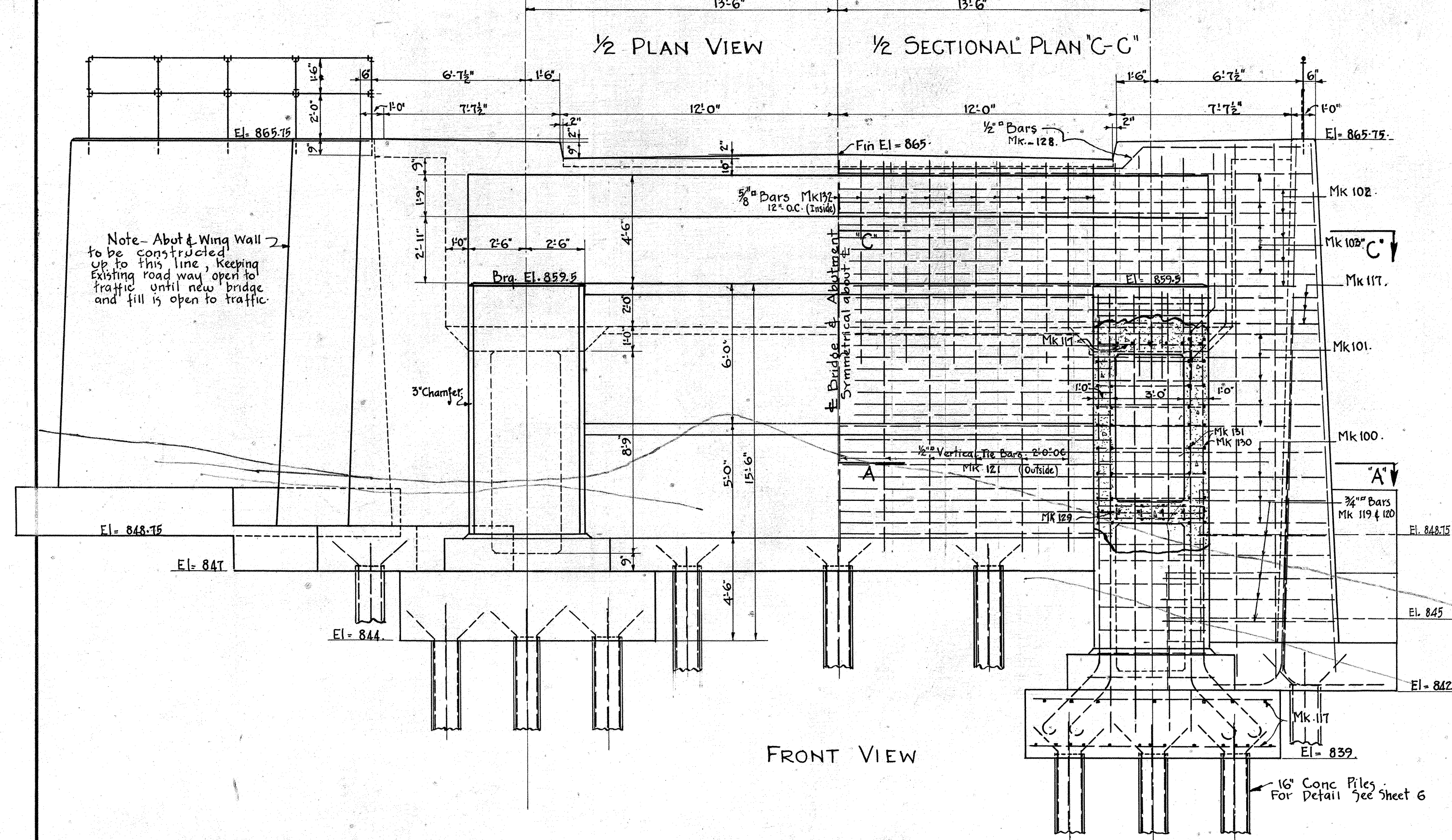
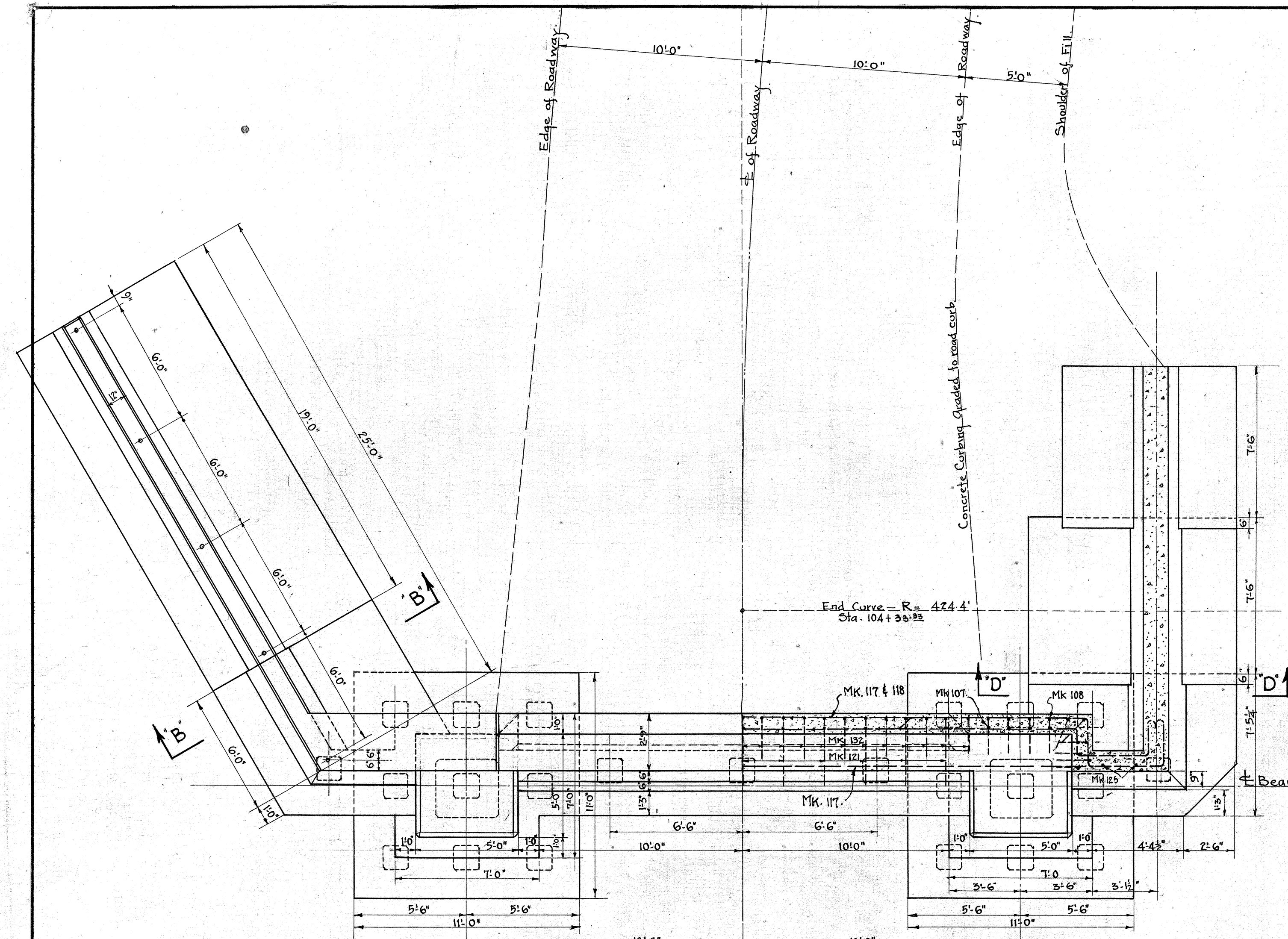
STRUCTURAL STEEL DESIGN

ENGINEER: G.K. Dawson
DRAFTSMAN: G.K. Dawson
SCALE: As Noted

DATE: _____
CHECKED BY: _____
APPROVED: _____
CITY & COUNTY ENGINEER

SHEET 3 OF 6 SHEETS

4207.6



14 Galv. Front Elev.		FED. AID DIST. NO.		STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		HAWAII		HAW	78	1931	7	11
This Schedule is for the contractors convenience only & must be verified by him.								
BENDING SCHEDULE:								
MK	NOO*	SIZE	DESCRIPTION	WHERE USED	Lgt EA	Total Lgt	Total Wgt	
100	4	3/4"						

OFFICE OF THE CITY AND COUNTY ENGINEER
HONOLULU, HAWAII

BRIDGE OVER "NORTH FORK" KAUONAHUA STREAM
WAHIAWA.

DETAIL OF ABUTMENT- STA-104+41 ^{BT}.

ENGINEER G. K. Dawson DATE _____
DRAFTSMAN G. K. D. CHECKED BY _____
SCALE 1/4" = 1'-0" *Stanford*
APPROVED: _____ CITY & COUNTY ENGINEER

SHEET 4 OF 6 SHEETS.

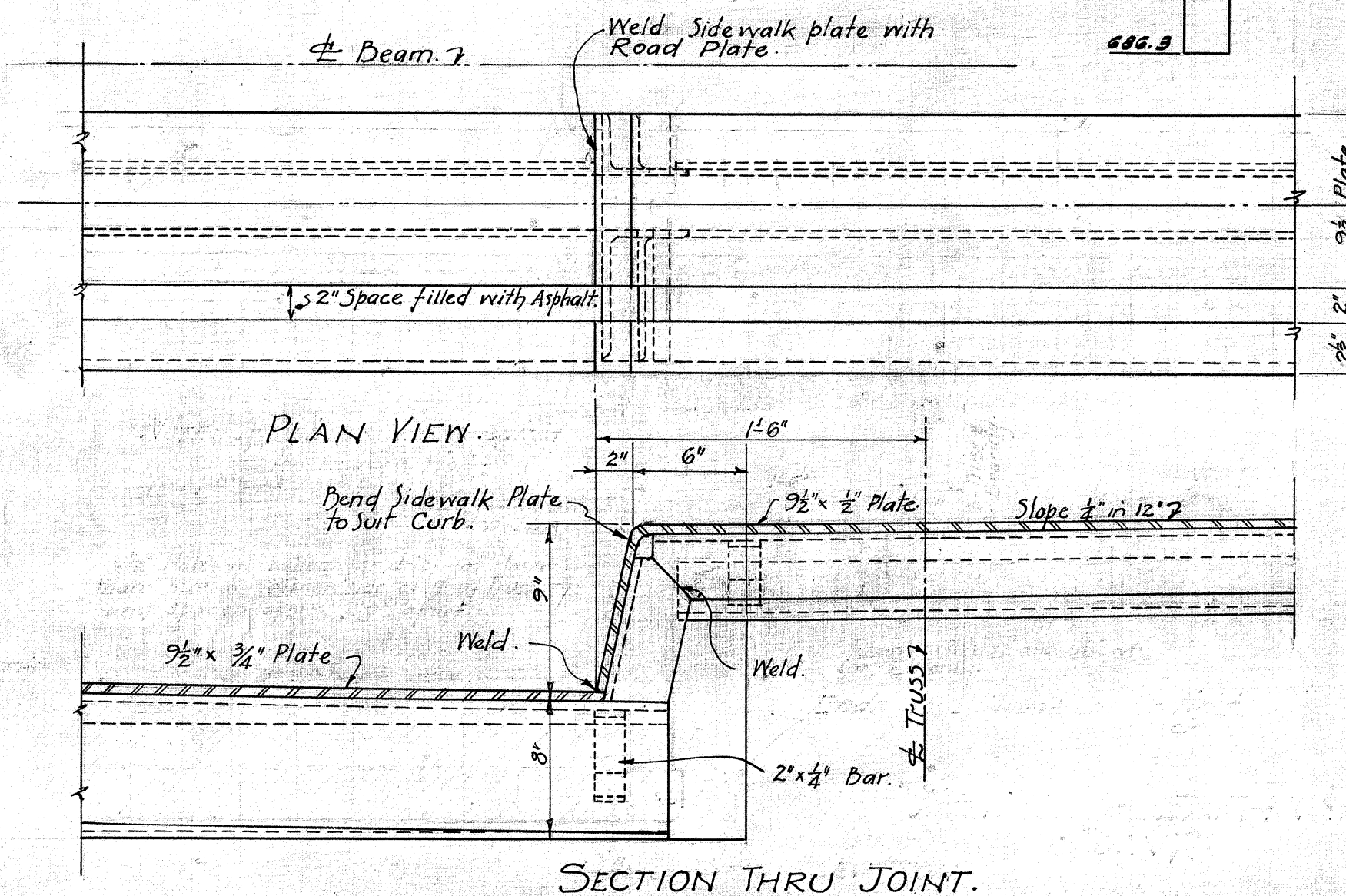
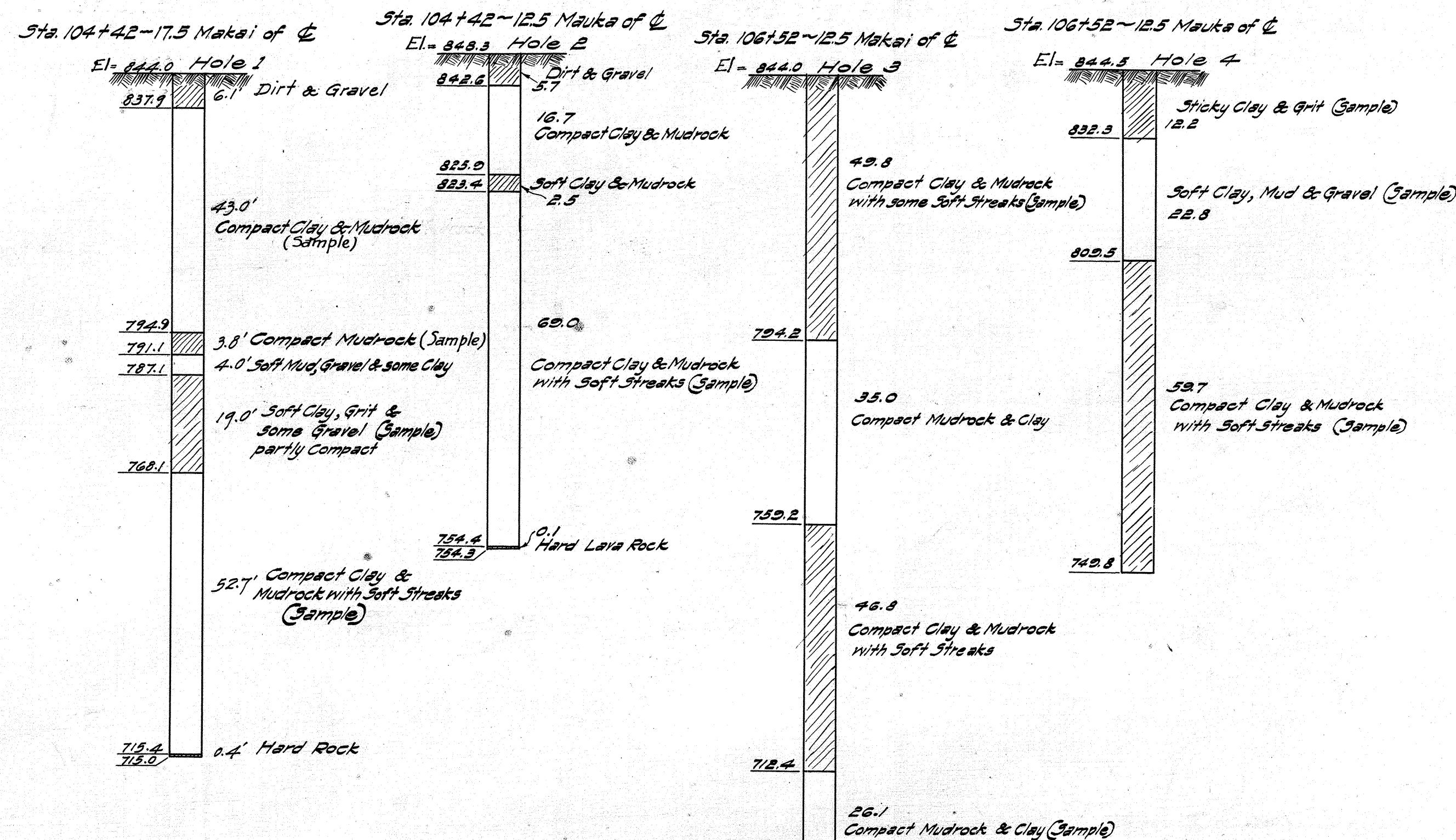
APPROX QUANTITIES

Concrete Class A - 1-2-4	173 Cu Yds.
Reinforcing Steel	7.01 Tons.

Plan File No. 6	Pocket No. 12	Folder No. 2	Plan No.
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4207.7

BORING DATA FOR 210' SPAN BRIDGE "NORTH FORK" KAUKONAHUA GULCH~WAHIAWA.



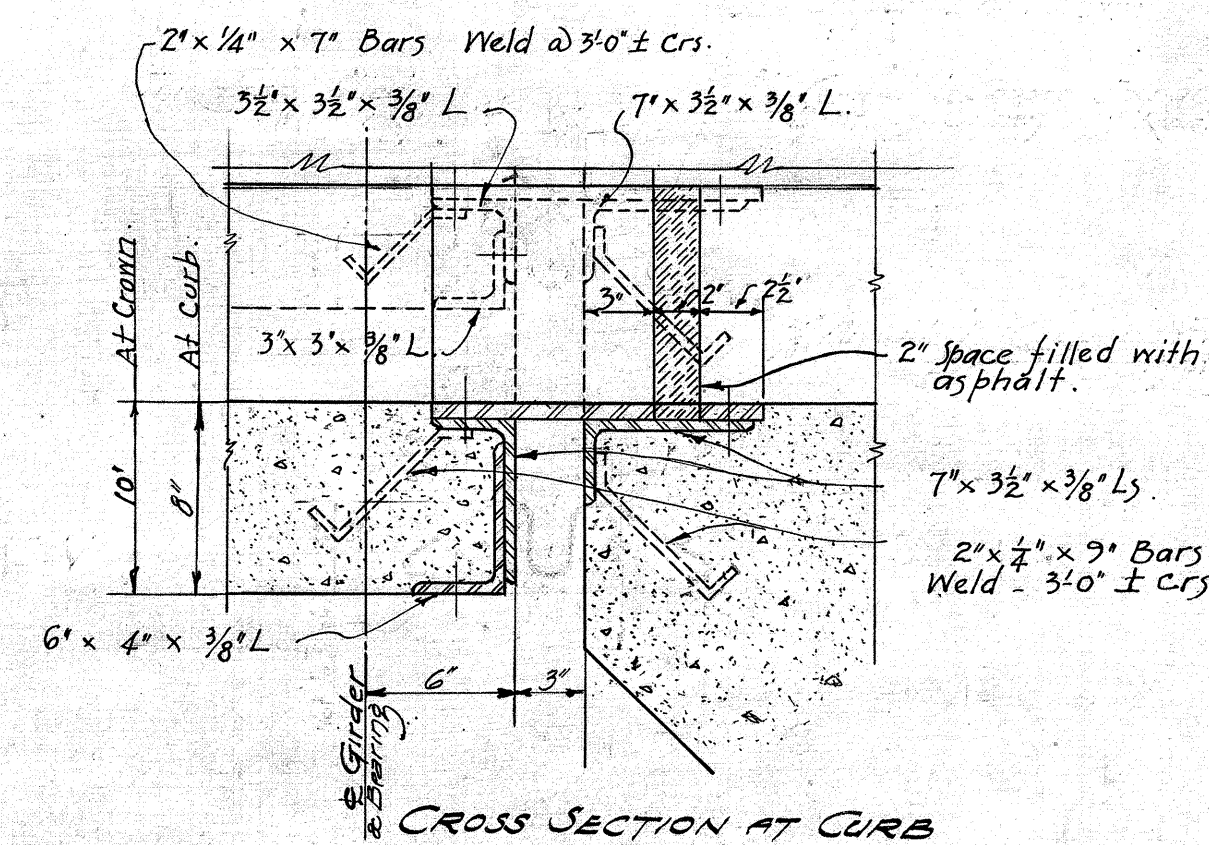
Note:-
These Quantities are for the Contractor's convenience only and must be verified by him.

BENDING SCHEDULE FOR DECKING

MK. NO.	OF SIZE	DESCRIPTION	LG. EA.	TOTAL LG.	TOTAL WGT.
100	154	3/8" BARS	27'-0"	4158	5614
101	336	3/8" BARS	26'-0"	8736	11794
102	314	1/2" BARS	32'-0"	10048	8600
103	604	1/2" BARS	8'-2"	4284	3680
104	232	1/2" BARS	9'-2"	2310	1963
TOTAL				31,656	

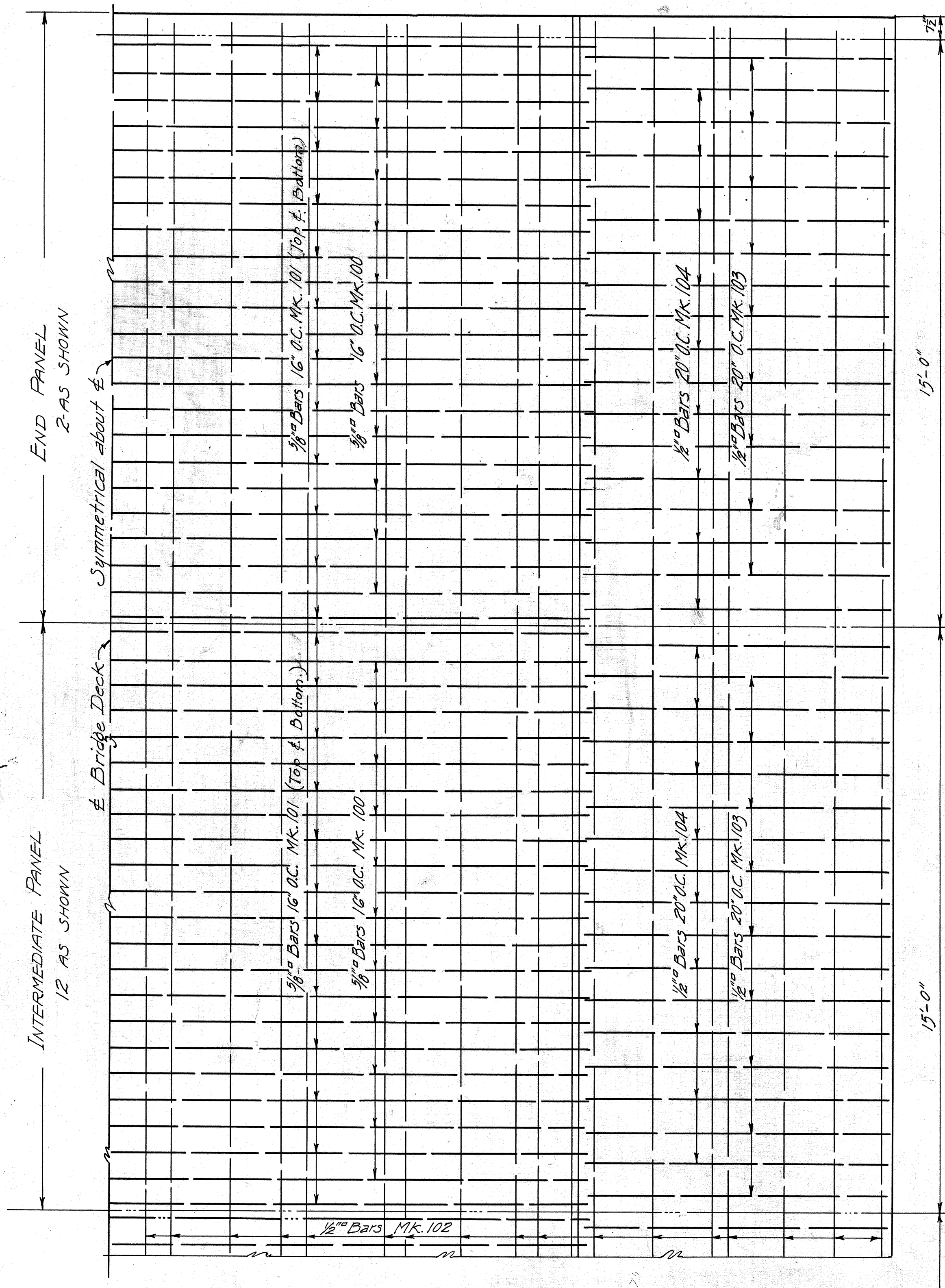
STEEL SCHEDULE

NOTE:-
APPROXIMATE QUANTITIES
Concrete Bridge Slab (Class A) 191 Cu. Yds.
Steel Reinforcing Bars 15.7 Tons



DETAIL OF PRE-CAST CONC. PILE Scale: 1/2" = 1'-0" 46 WANTED.

OFFICE OF THE CITY & COUNTY ENGINEER HONOLULU, HAWAII	
BRIDGE OVER "NORTH FORK" KAUKONAHUA STREAM WAHIAWA	
BORING DATA, DECKING, PILE AND OTHER DETAILS.	
ENGINEER: G. K. DeLoach	DATE: _____
DRAFTSMAN: G. K. DeLoach	CHECKED BY: _____
SCALE: As Noted	APPROVED: _____
CITY & COUNTY ENGINEER	



TYPICAL HALF PLAN & SECTION THRU END AND
INTERMEDIATE PANELS
Scale 1/2" = 1'-0"