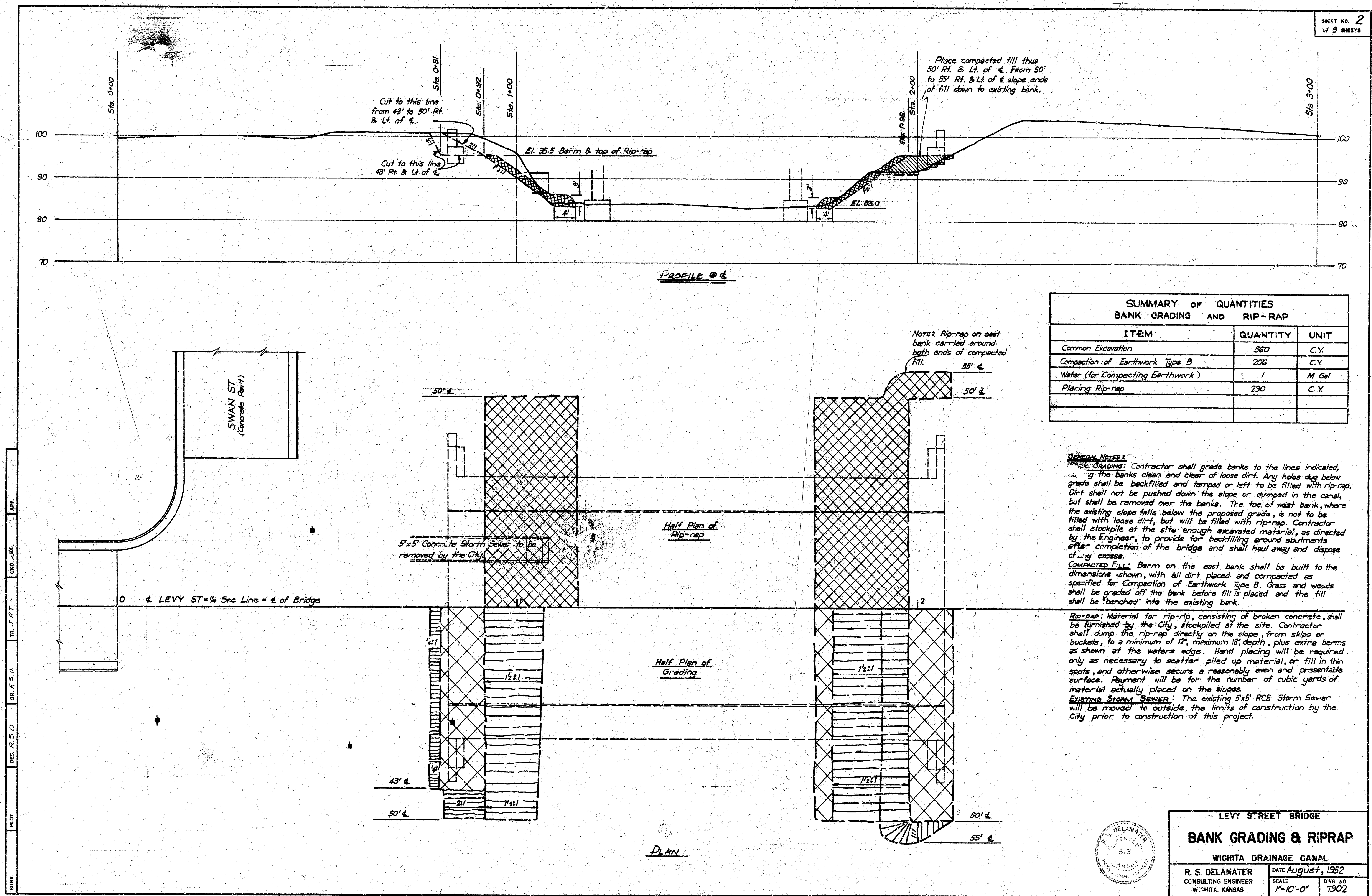
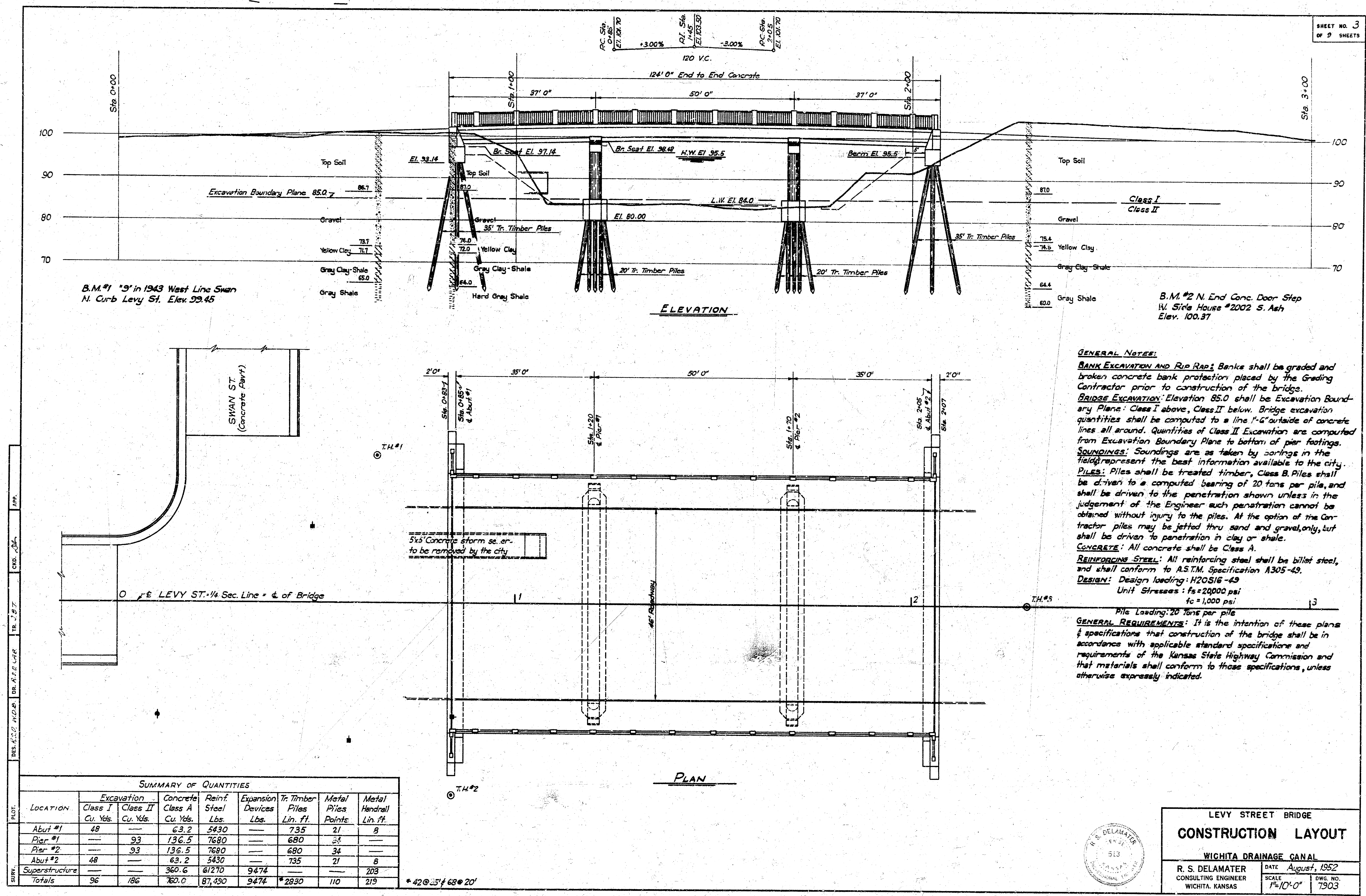




H. Vernon Rd
 and W.D.C.
 Bridge
 Rip-Rap
 grading



GENERAL NOTES:

BANK EXCAVATION AND R.O.P. ROPS: Banks shall be graded and broken concrete bank protection placed by the Grading Contractor prior to construction of the bridge.

BRIDGE EXCAVATION: Elevation 85.0 shall be Excavation Boundary Plane: Class I above, Class II below. Bridge excavation quantities shall be computed to a line 1'-6" outside of concrete lines all around. Quantities of Class II Excavation are computed from Excavation Boundary Plane to bottom of pier footings.

SOUNDINGS: Soundings are as taken by borings in the field represent the best information available to the city.

PILES: Piles shall be treated timber, Class B. Piles shall be driven to a computed bearing of 20 tons per pile, and shall be driven to the penetration shown unless in the judgement of the Engineer such penetration cannot be obtained without injury to the piles. At the option of the Contractor piles may be jetted thru sand and gravel only, but shall be driven to penetration in clay or shale.

CONCRETE: All concrete shall be Class A.

REINFORCING STEEL: All reinforcing steel shall be billet steel, and shall conform to A.S.T.M. Specification A305-49.

DESIGN: Design loading: H20S16-49
Unit Stresses: $f_s = 20,000$ psi
 $f_c = 1,000$ psi
Pile Loading: 20 tons per pile

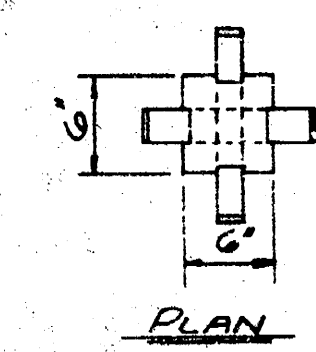
GENERAL REQUIREMENTS: It is the intention of these plans & specifications that construction of the bridge shall be in accordance with applicable standard specifications and requirements of the Kansas State Highway Commission and that materials shall conform to those specifications, unless otherwise expressly indicated.

LEVY STREET BRIDGE

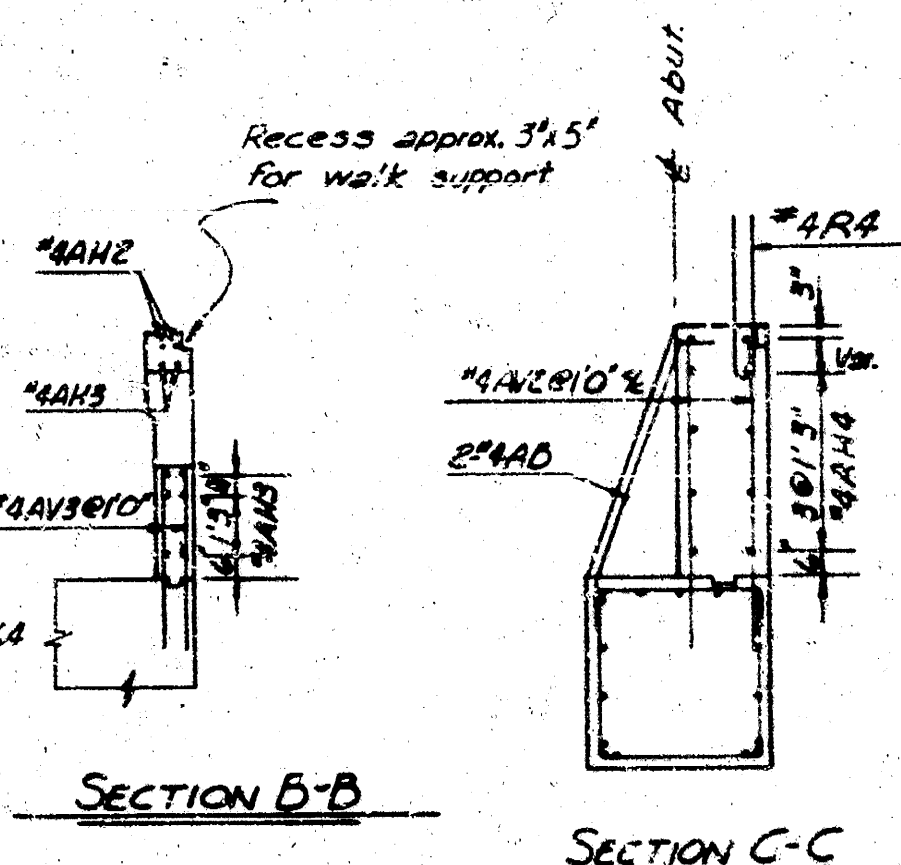
CONSTRUCTION LAYOUT

WICHITA DRAINAGE CANAL

R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE: August, 1952 SCALE: 1/4"=1'-0" DWS NO. 7303
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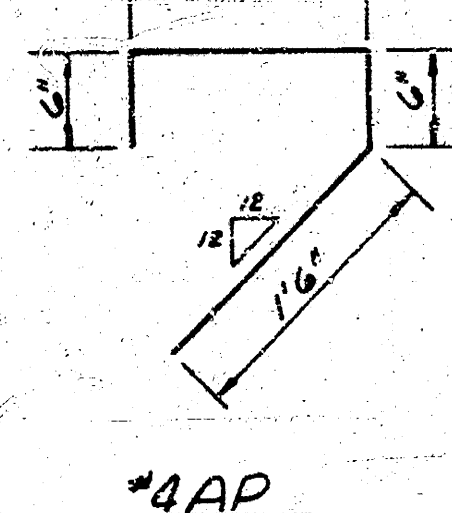
METAL PILE POINTS



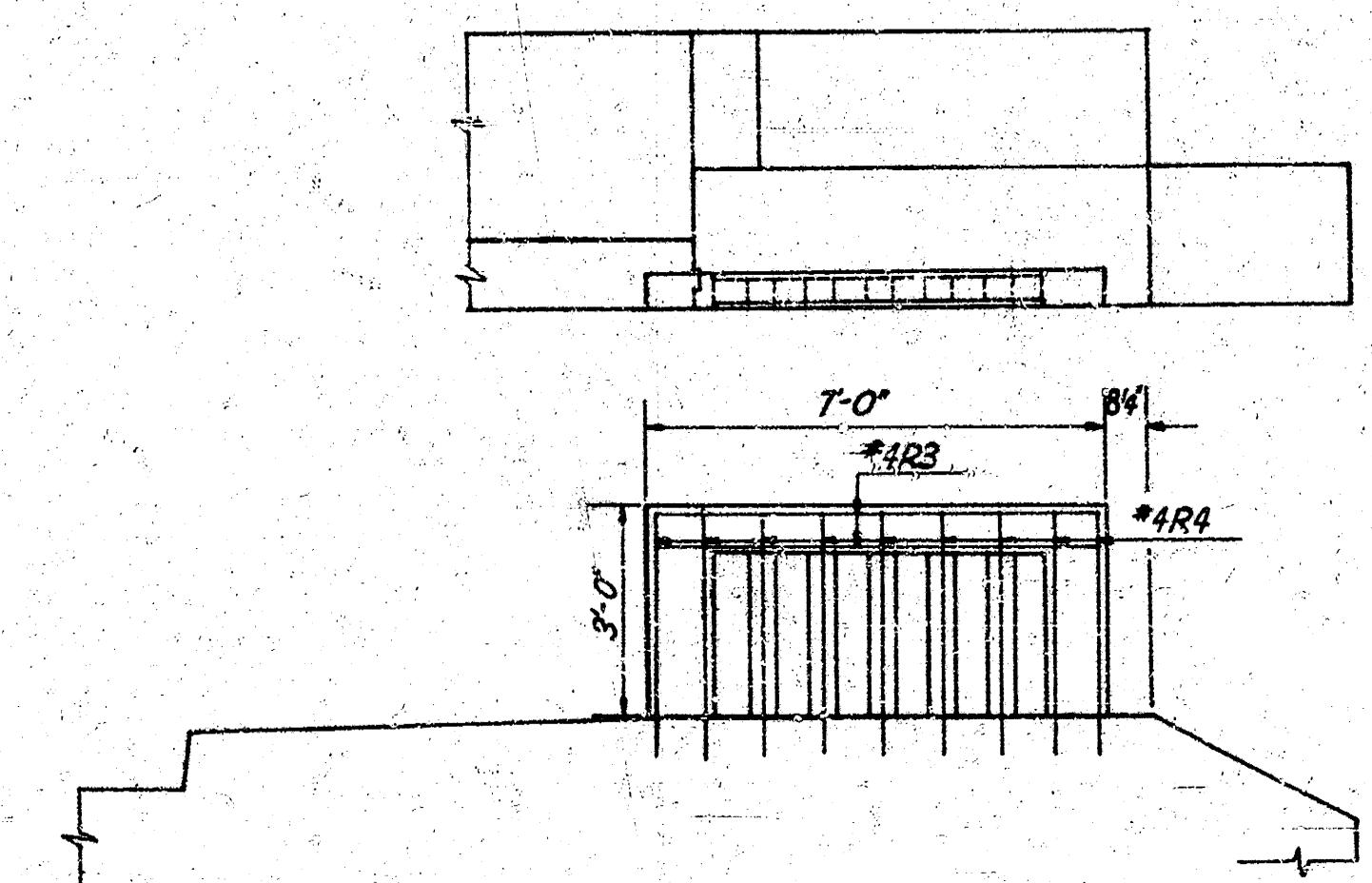
SECTION C-C

Notes:

- Class A concrete shall be used throughout.
- Level all exposed edges with a $\frac{3}{8}$ " angular mauling and use $\frac{3}{4}$ " fillets in corners unless otherwise noted.
- All dimensions shown relative to reinforcing steel placement are to c/s of bars.
- All dimensions shown in the bending diagrams are out to out of bars. Refer to AISI Manual of Recommendations.
- Practice for Detailing Reinforced Concrete Highway Structures.
- See Sheet 6 for Handrail Details.
- See Sheet 8 for details of expansion rollers and rollers.

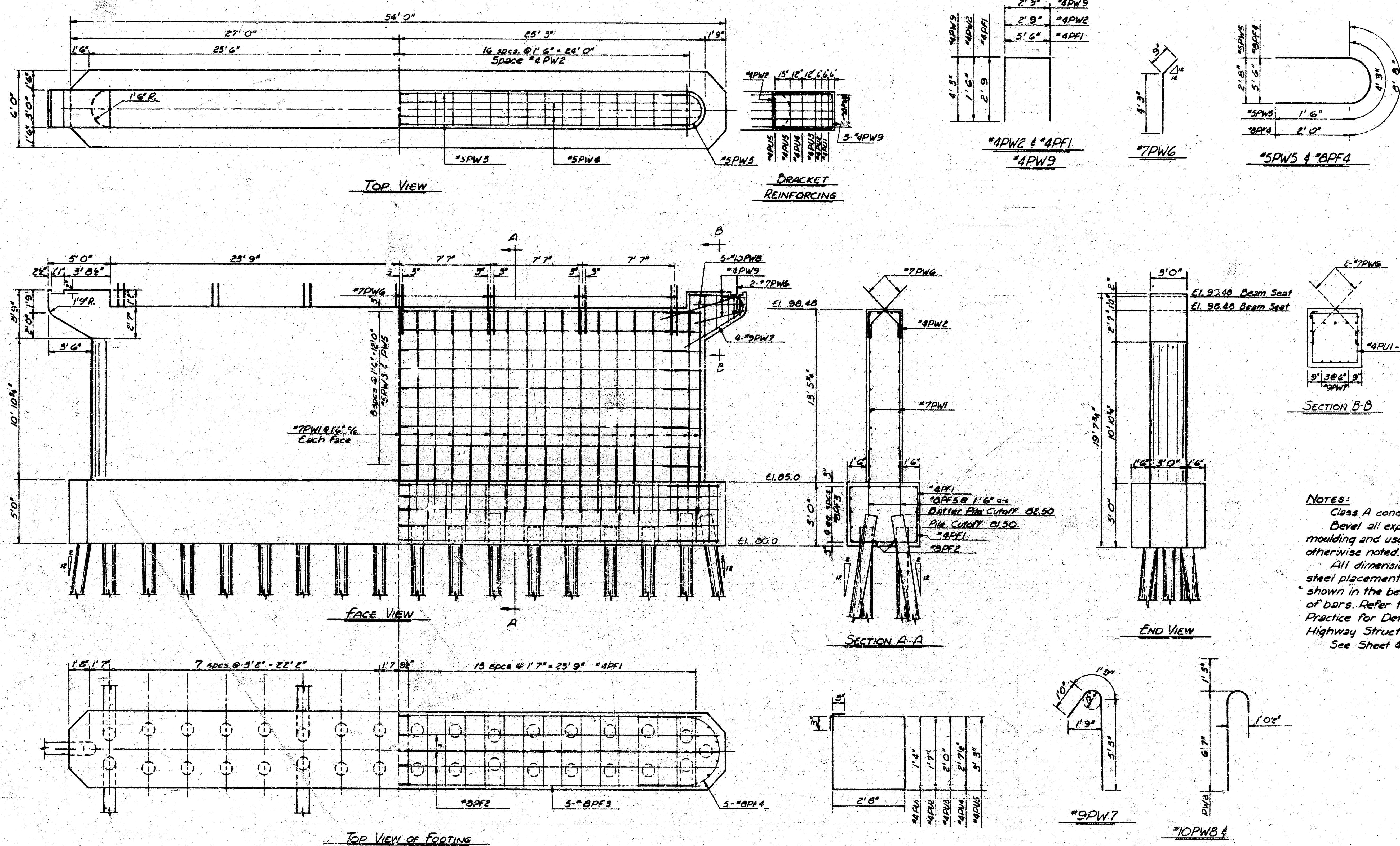


*4AP



ABUTMENT HANDRAIL DETAILS
Scale 3/4" = 1'-0"

SUMMARY OF QUANTITIES																REV. BY DATE		REVISED MATERIAL DESCRIPTION				
Bar	AF1	AF2	AF3	AH1	AH2	AH3	AH4	AV1	AV2	AV3	AV4	AV5	AO	AP	AR	LEVY STREET BRIDGE	ABUTMENT DETAILS	WICHITA DRAINAGE CANAL	R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE August, 1952	SCALE 1" = 1'-0"	DWG. NO. 7904
No. Reqd.	46	46	34	30	4	16	20	92	60	12	6	4	4	47	20							
Size	#4	#4	#8	#4	#4	#4	#4	#4	#8	#4	#4	#4	#4	#4	#5							
Length	10'-6"	5'-0"	39'-10"	16'-6"	7'-8"	6'-6"	13'-0"	5'-6"	6'-6"	3'-9"	1'-5"	5'-6"	6'-9"	3'-4"	4'-5"							
Shape	□	□				—	—	—	—	—	—	—	()	—	—							
Class A Concrete			6.32 Cu. Yds.																			
Reinforcing Steel			5430 Lbs.																			
Tr. Timber Piling			735 Lin. Ft.																			



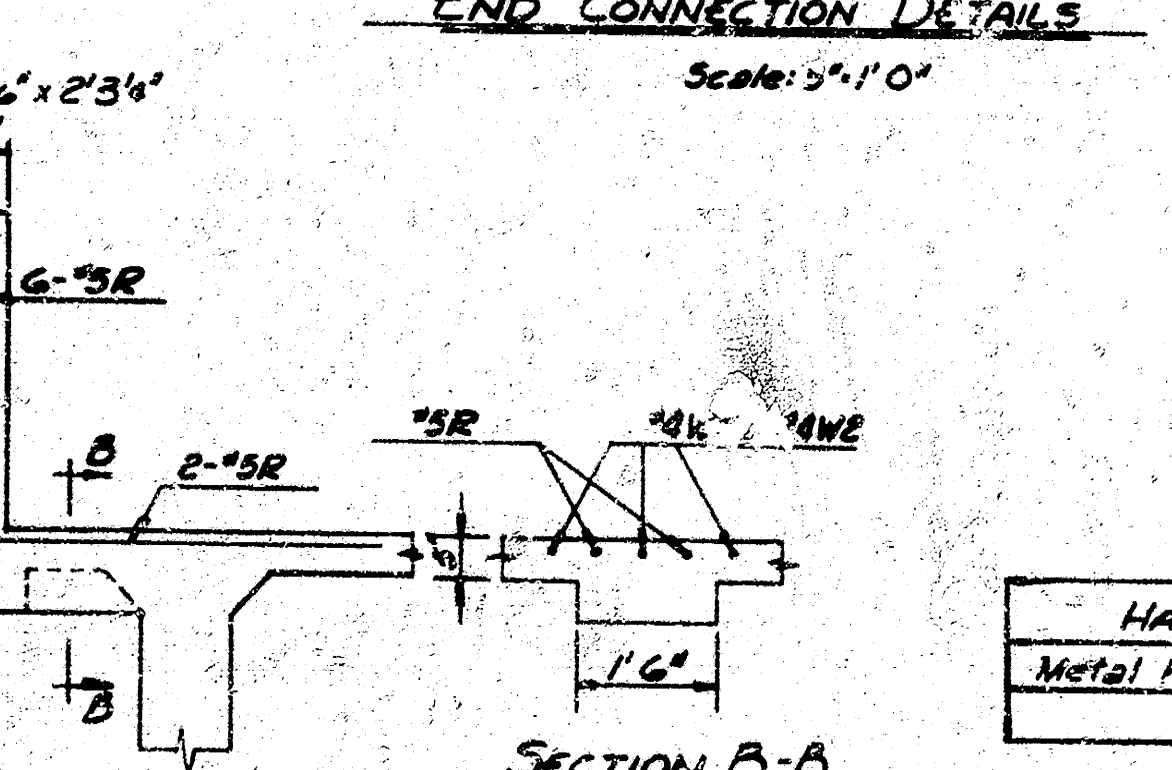
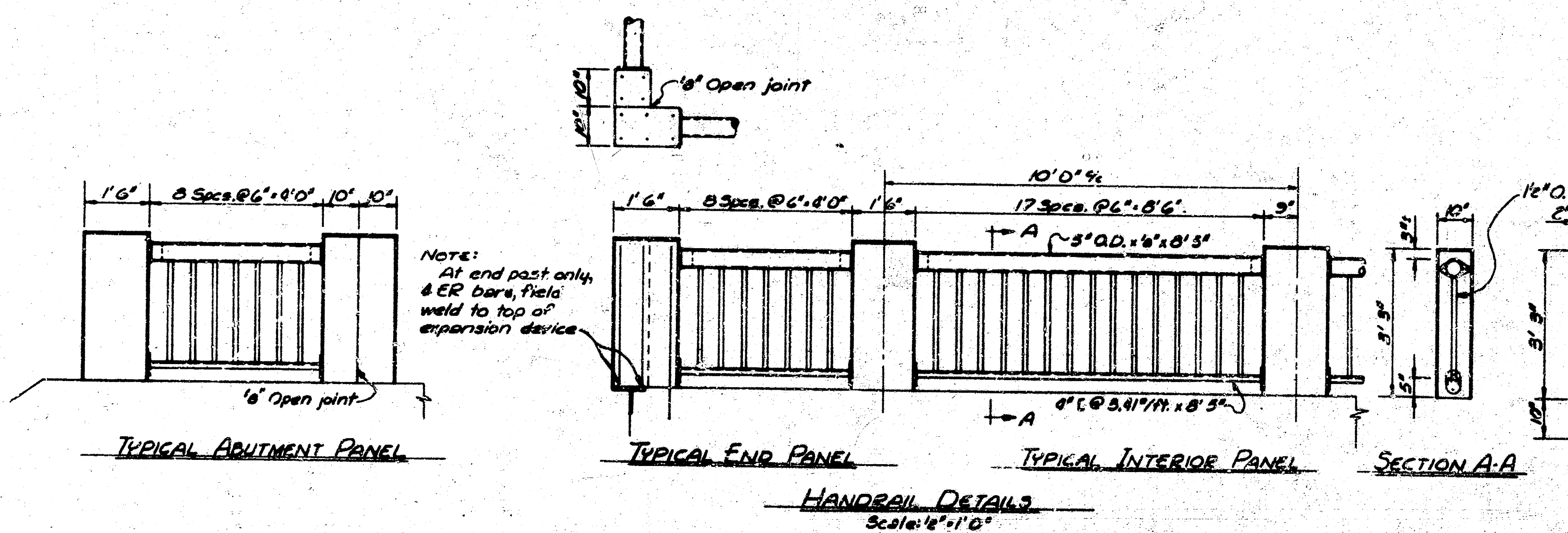
		SUMMARY OF QUANTITIES															
Bar	PFI	PF2	PF3	PF4	PW1	PW2	PW3	PW4	PW5	PW6	PW7	PW8	PW9	PW10	PW11	PW12	PW13
No. Req'd	44	10	20	10	70	33	36	4	18	32	6	10	6				
Size	#4	#8	#8	#8	#7	#4	#5	#5	#5	#7	#9	#10	#2				
Length	11' 0"	27' 6"	23' 3"	18' 0"	13' 3"	5' 3"	28' 6"	23' 3"	7' 3"	5' 0"	8' 0"	8' 0"	11' 3"	8' 6"	9' 0"	9' 10"	11' 1"
Shape																	
Class A Concrete	136.5 Cu. Yds.																
Reinforcing Steel	7680 Lbs.																
Tr. Timber Piling	680 Lin. Ft.																

LEVY STREET BRIDGE
PIER DETAILS

WICHITA DRAINAGE CANAL

R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS

DATE August, 1952
SCALE 1/4" = 1'-0"
DWG. NO. 7905



SUPERSTRUCTURE GENERAL NOTES:

See Sheets 740 for details of Slab and Girder reinforcing.

All Concrete shall be Class A. Bevel all exposed edges with a $\frac{1}{4}$ " triangular moulding fillet all corners $\frac{1}{4}$ " unless otherwise noted.

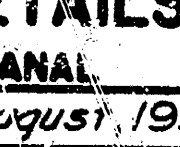
Construction Joints are optional with the Contractor. Construction Joints shall be made only at the points indicated.

All Superstructure falsework shall be left in place until such time that the concrete has attained its designed strength.

All dimensions in the Bending Diagrams are out to out of bars. Refer to AASHTO Manual of Recommended Practice for Detailing Reinforced Concrete Highway Structures.

HANDRAIL QUANTITIES	
Metal Handrail	219 Lin. Ft.

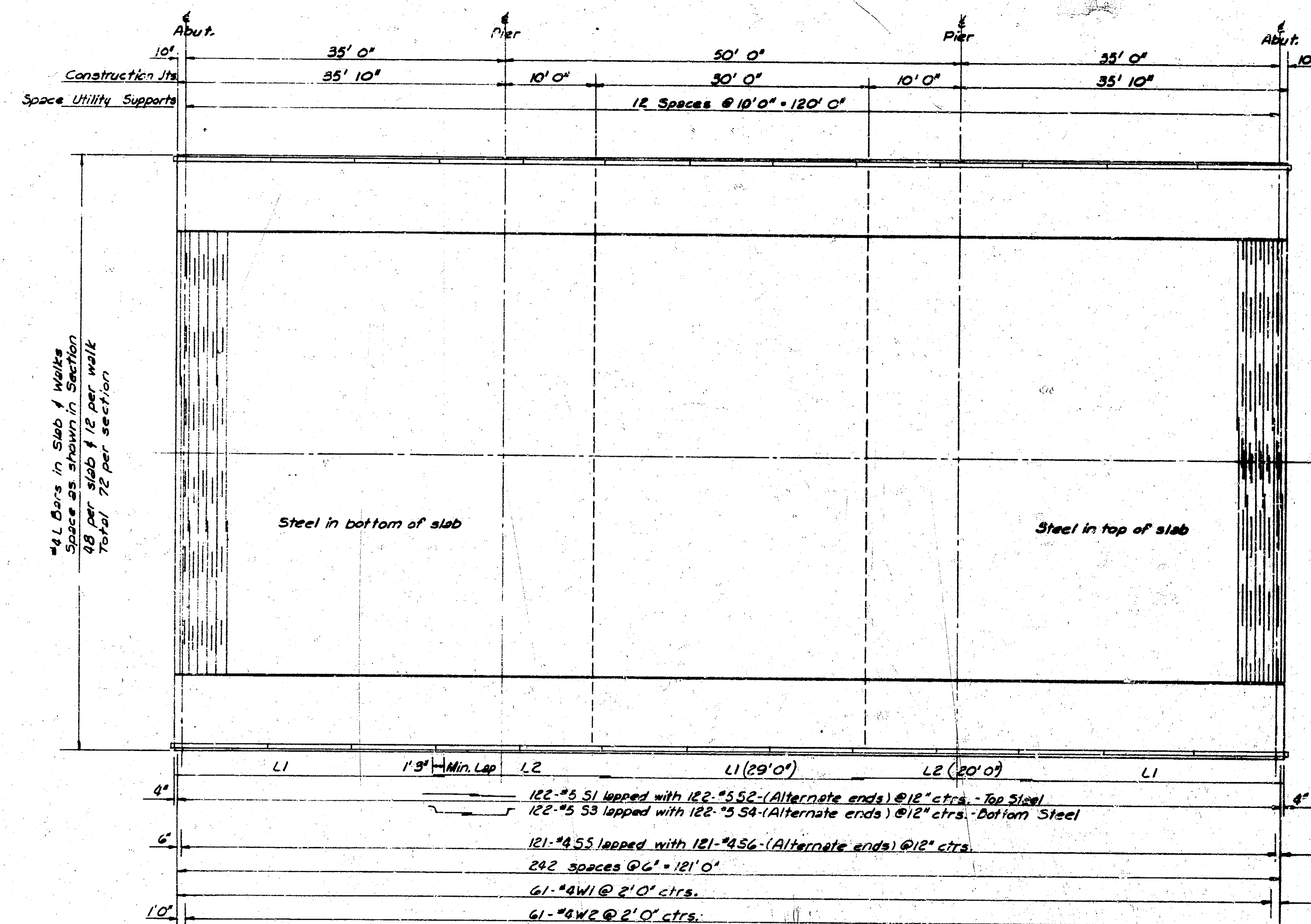
VOID - See
Revision 11-1-62



LEVY STREET BRIDGE
**SUPERSTRUCTURE PLAN
& HANDRAIL DETAILS**
WICHITA DRAINAGE CANAL

R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS

DATE August, 1952
SCALE As shown DWG. NO. 7906

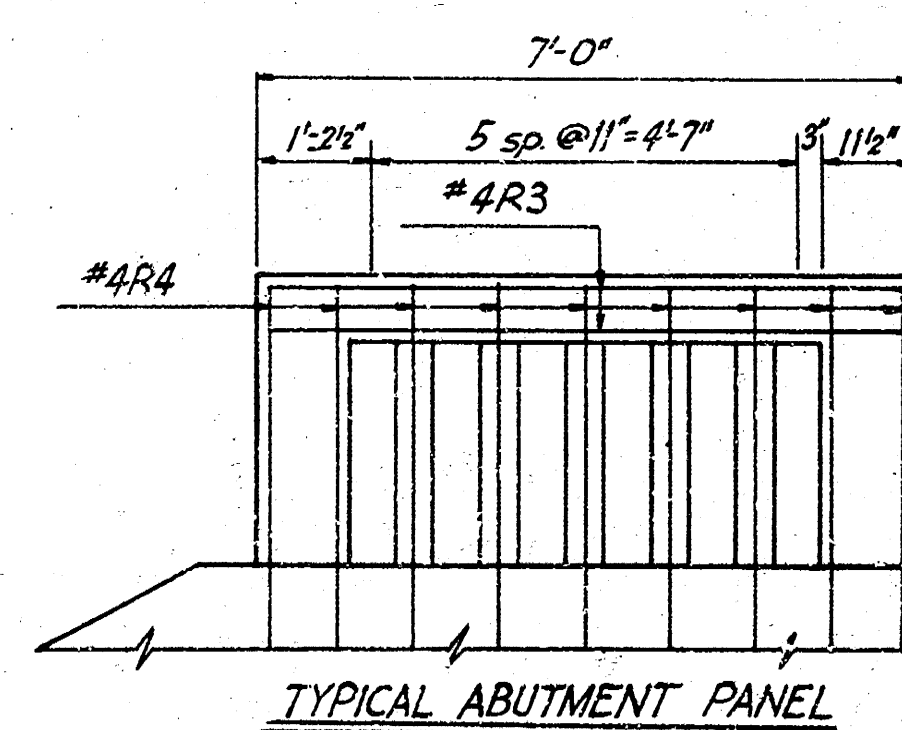


SUPERSTRUCTURE LAYOUT
Scale: 1/4"=1'-0"

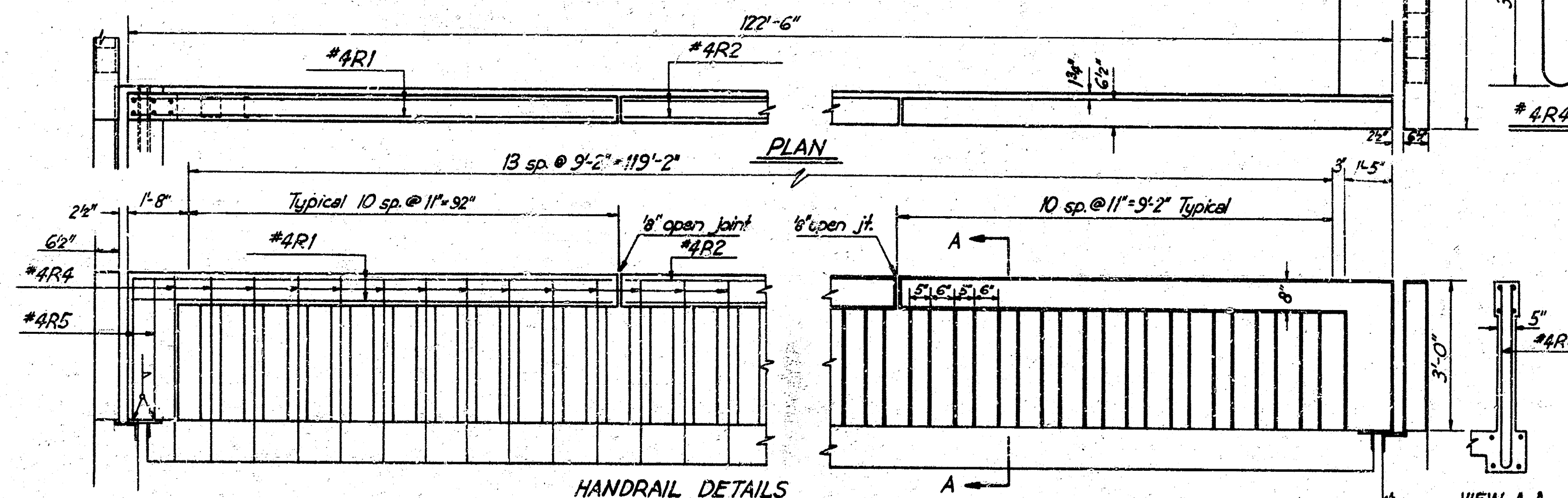
SUPERSTRUCTURE GENERAL NOTES:

See Sheets 710 for details of Slab and Girder reinforcing.
All Concrete shall be Class A. Bevel all exposed edges with a 1/4" triangular moulding. Fillet all corners 1/4" unless otherwise noted.
Construction Joints are optional with the Contractor. Construction Joints shall be made only at the points indicated.
All Superstructure falsework shall be left in place until such time that the concrete has attained its designed strength.
All dimensions in the Bending Diagrams are out to out of bars. Refer to AASHTO Manual of Recommended Practice for Detailing Reinforced Concrete Highway Structures.

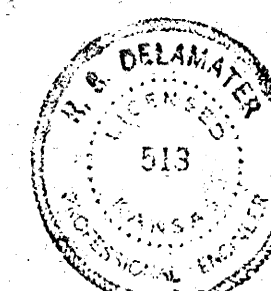
SUMMARY OF HANDRAIL QUANTITIES				
Mark	Nº	Size	Length	Shape
R1	16	4	10'-9"	
R2	88	4	9'-0"	
R3	16	4	6'-10"	
R4	300	4	7'-6"	U
R5	16	4	2'-11"	
Class A Concrete			85 cu. yds.	
Reinforcing Steel			2250 lbs.	



TYPICAL ABUTMENT PANEL



HANDRAIL DETAILS



REV.	BY	DATE	DESCRIPTION
A	PCF	11/19/52	Revised Handrail
LEVY STREET BRIDGE			
SUPERSTRUCTURE PLAN & HANDRAIL DETAILS			
WICHITA DRAINAGE CANAL			
R. S. DELAMATER		DATE August, 1952	DWG. NO.
CONSULTING ENGINEER		SCALE As shown	7906
WICHITA, KANSAS			

