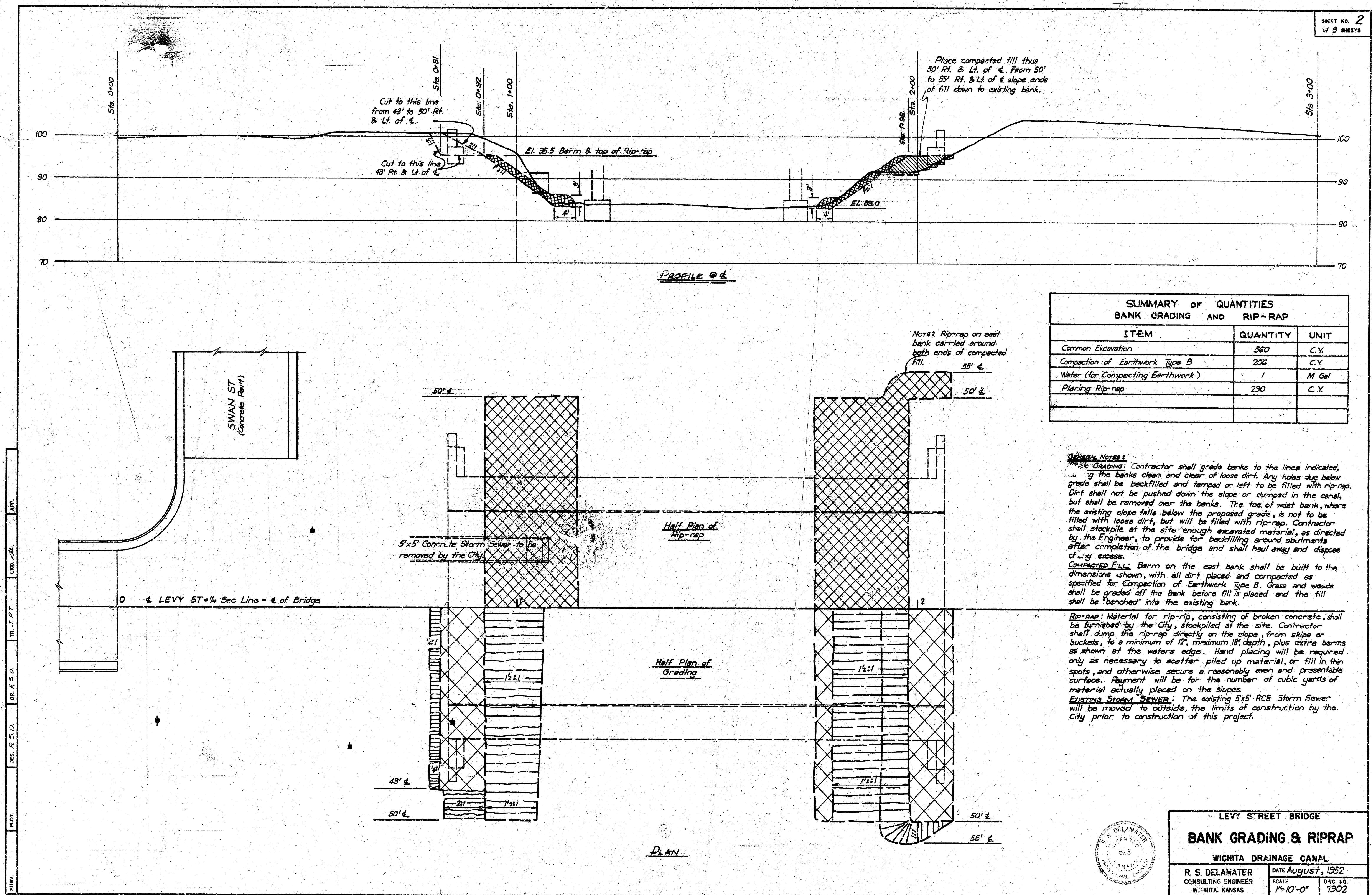
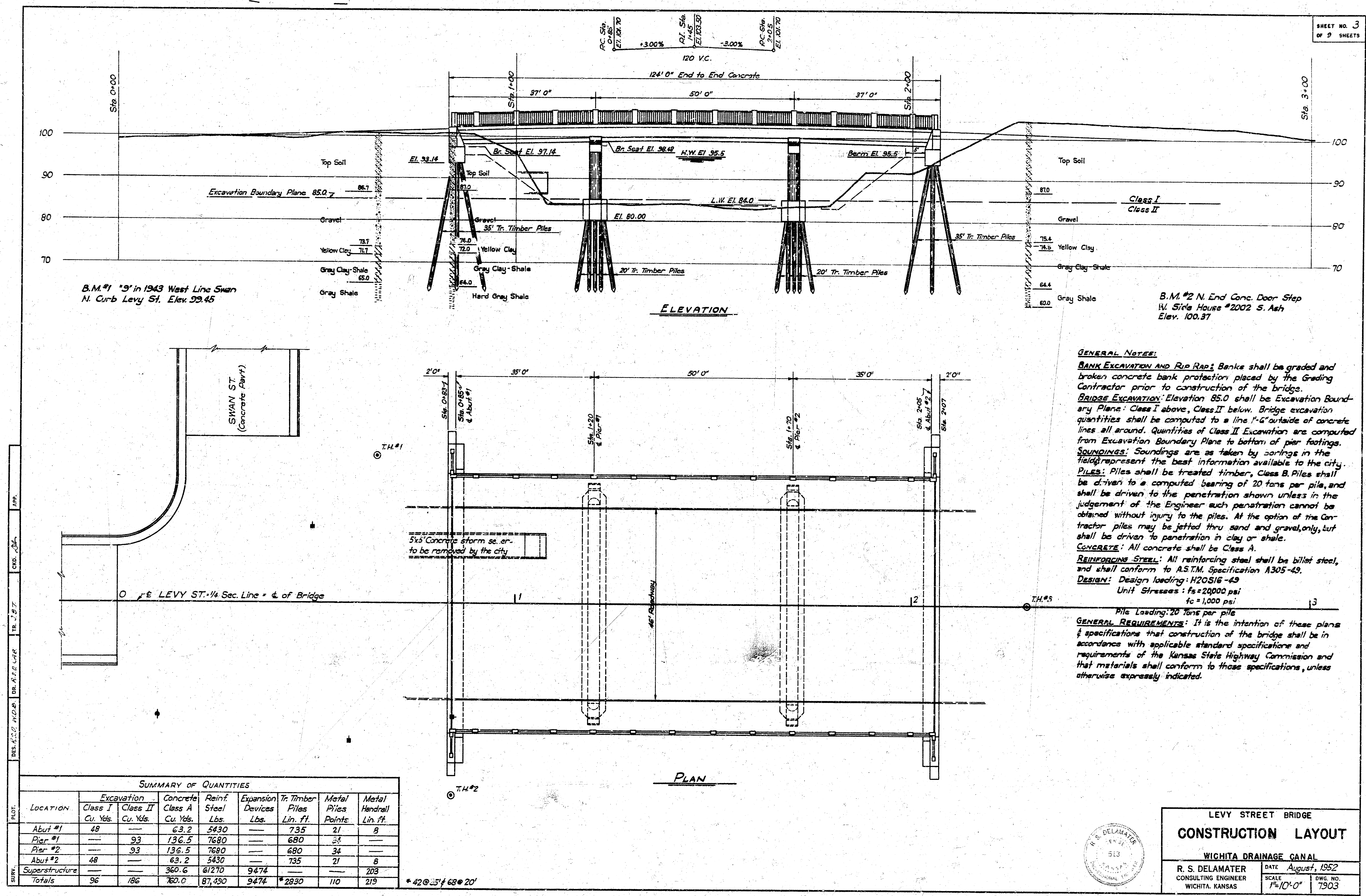




At Vernon Rd
and W.D.C.
Bridges
Rip-Rap
grading

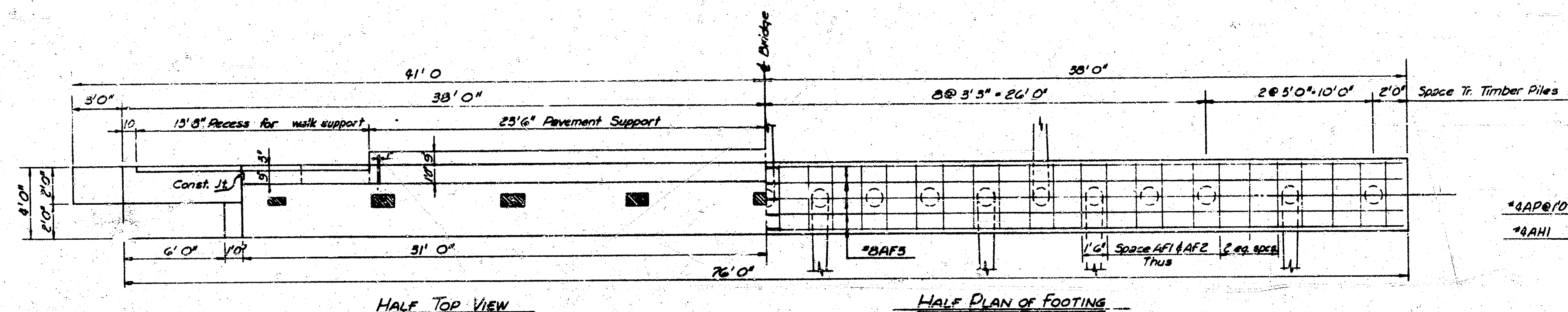


SUMMARY OF QUANTITIES							
LOCATION	Excavation		Concrete Class A	Reinf. Steel Lbs.	Expansion Devices	Tr. Timber Piles Lin. Ft.	Metal Piles Lin. Ft.
	Class I Cu. Yds.	Class II Cu. Yds.					
Abut #1	48	—	63.2	5430	—	735	21
Pier #1	—	93	136.5	7680	—	680	34
Pier #2	—	93	136.5	7680	—	680	34
Abut #2	48	—	63.2	5430	—	735	21
Superstructure	—	—	360.6	61270	9474	—	203
Totals	96	186	760.0	87450	9474	2830	219

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: H20S16-43
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.

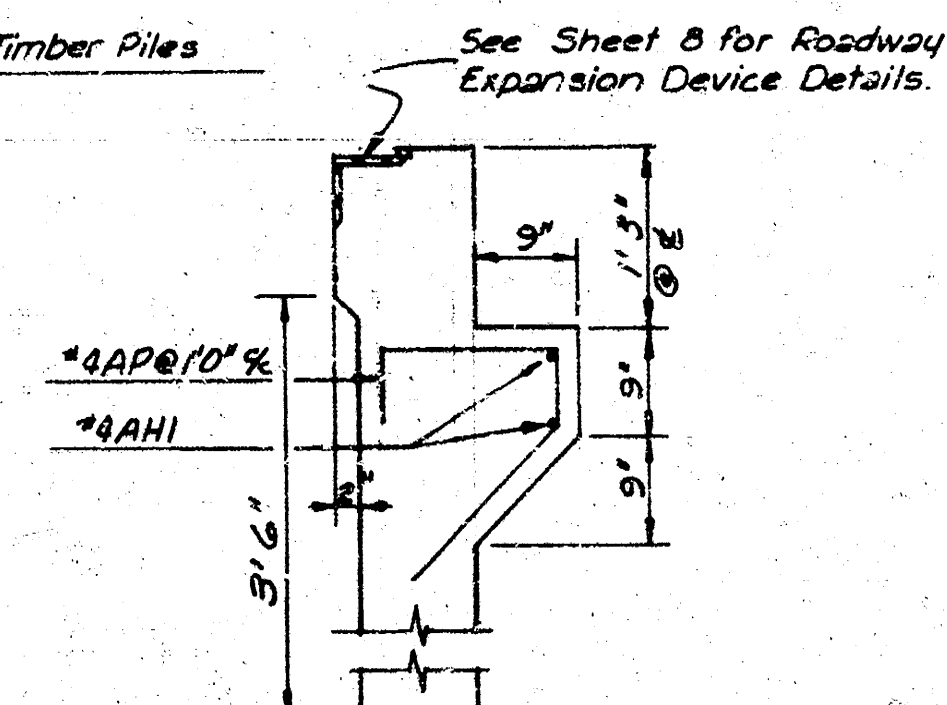
LEVY STREET BRIDGE
CONSTRUCTION LAYOUT
WICHITA DRAINAGE CANAL
R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS

DATE: August, 1952
SCALE: 1/4"=1'-0"
DWG. NO.: 7303

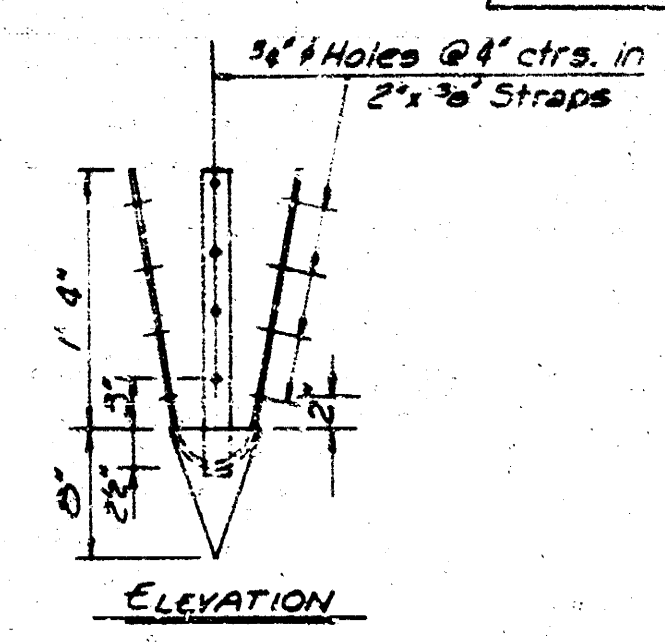


HALF TOP VIEW

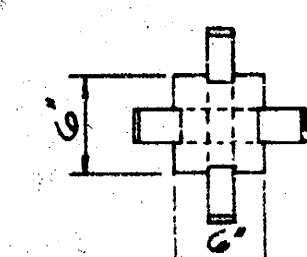
HALF PLAN OF FOOTING



PART SECTION A-A

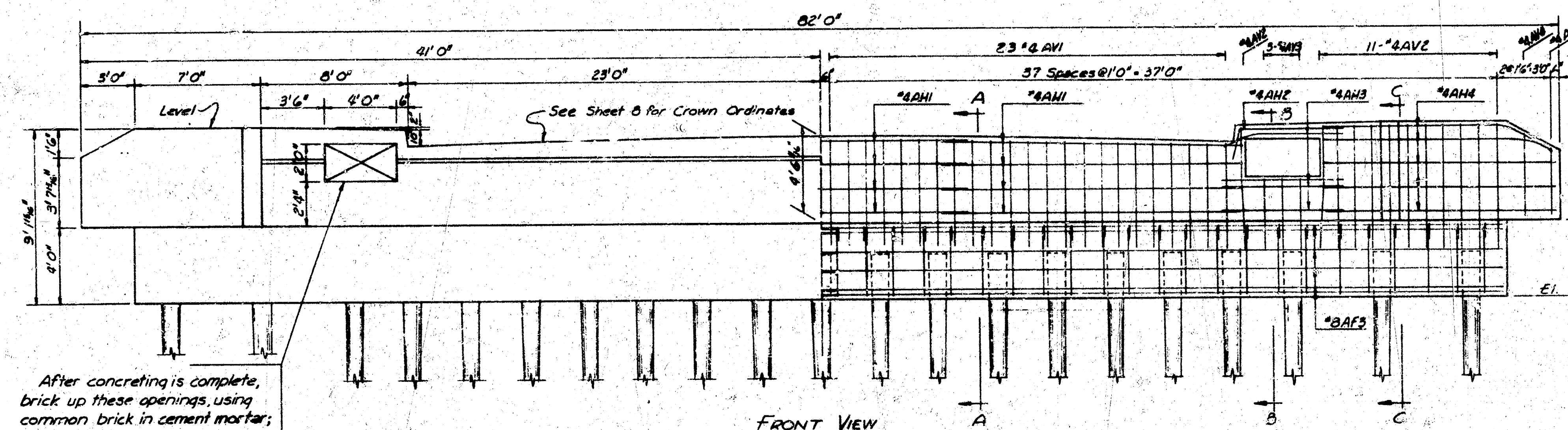


ELEVATION

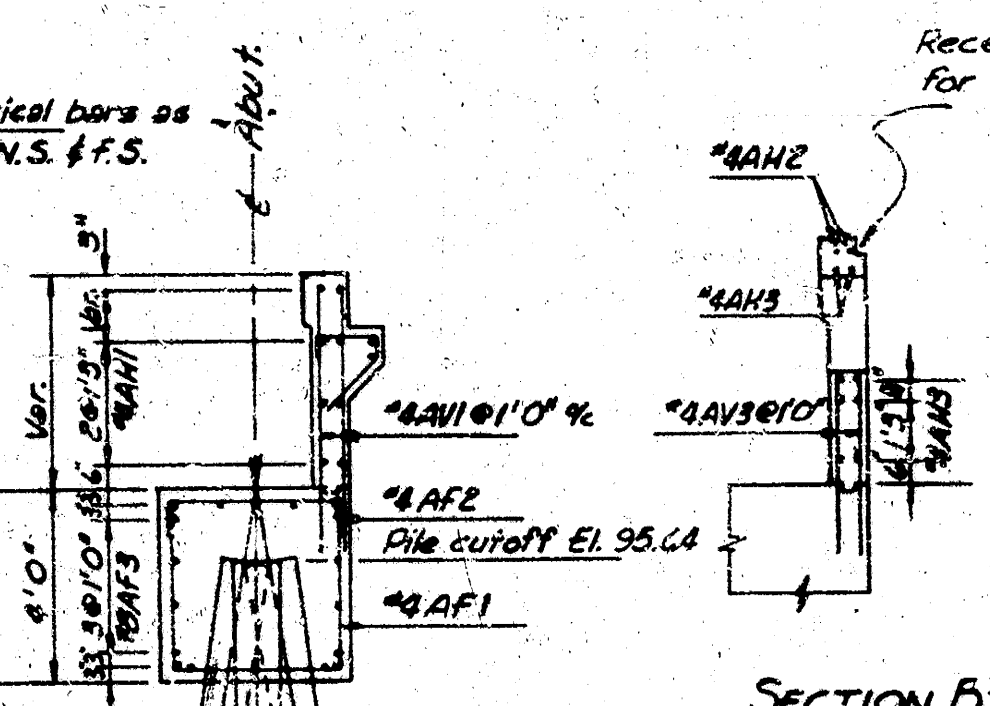


PLAN

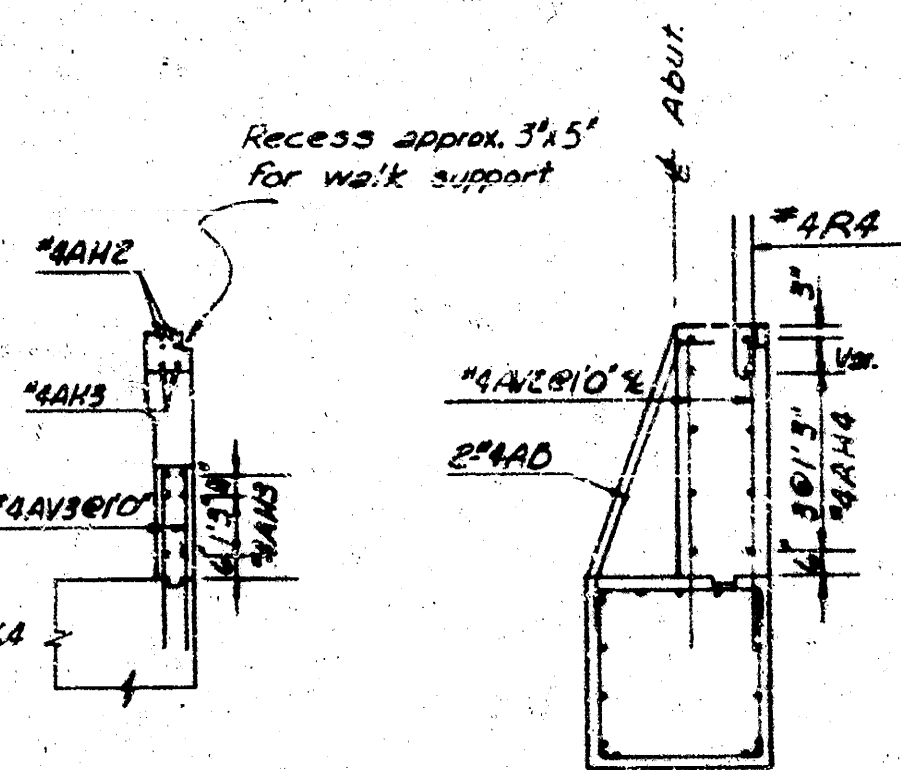
METAL PILE POINTS



FRONT VIEW



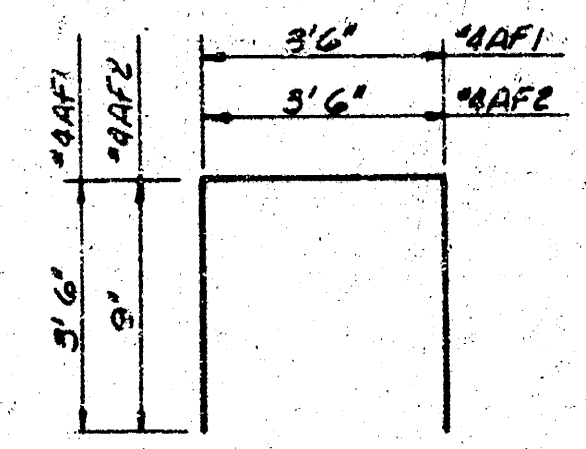
SECTION A-A



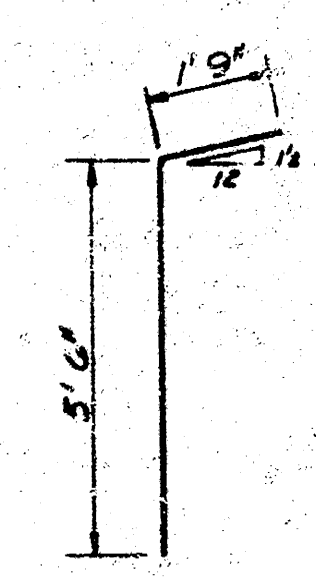
SECTION B-B

SECTION C-C

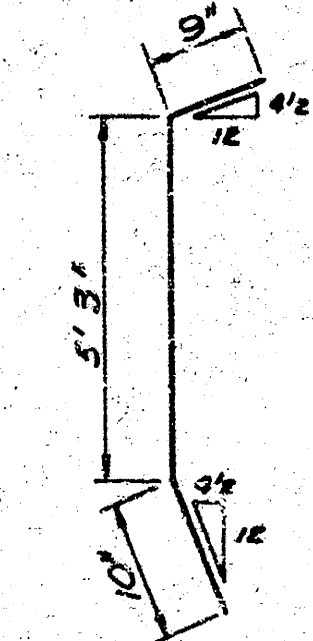
After concreting is complete, brick up these openings, using common brick in cement mortar; this work to be subsidiary to the item of Reinforced Concrete



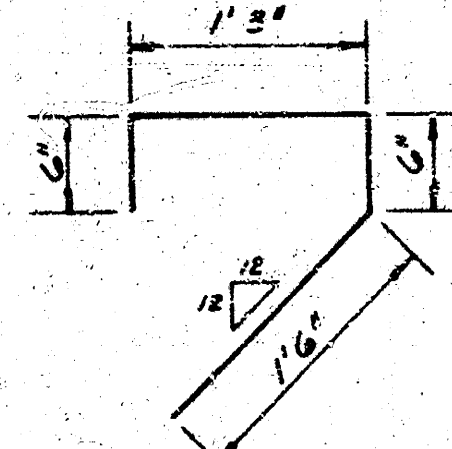
*4AF1 & *4AF2



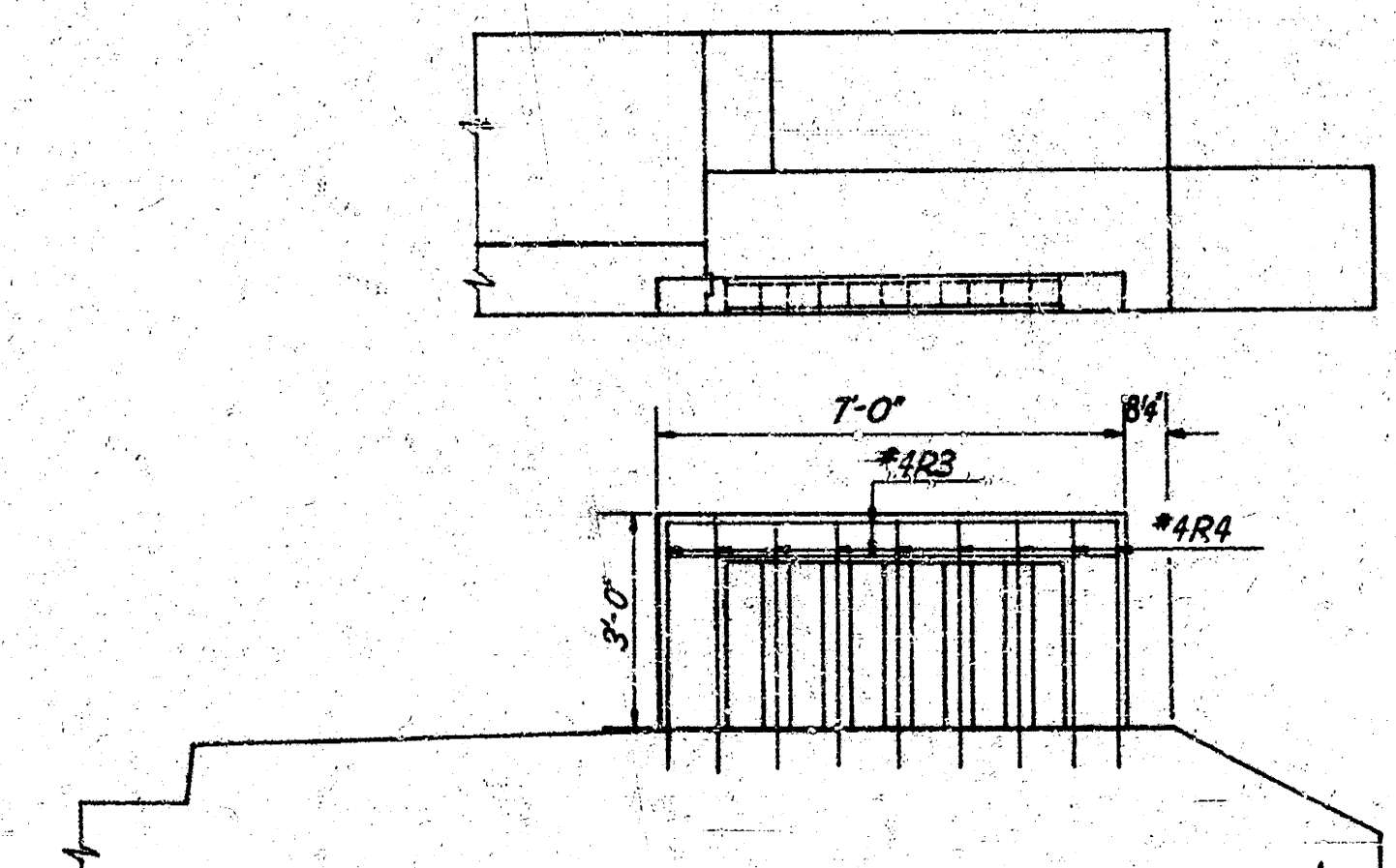
4AH2



4AB



*4AP



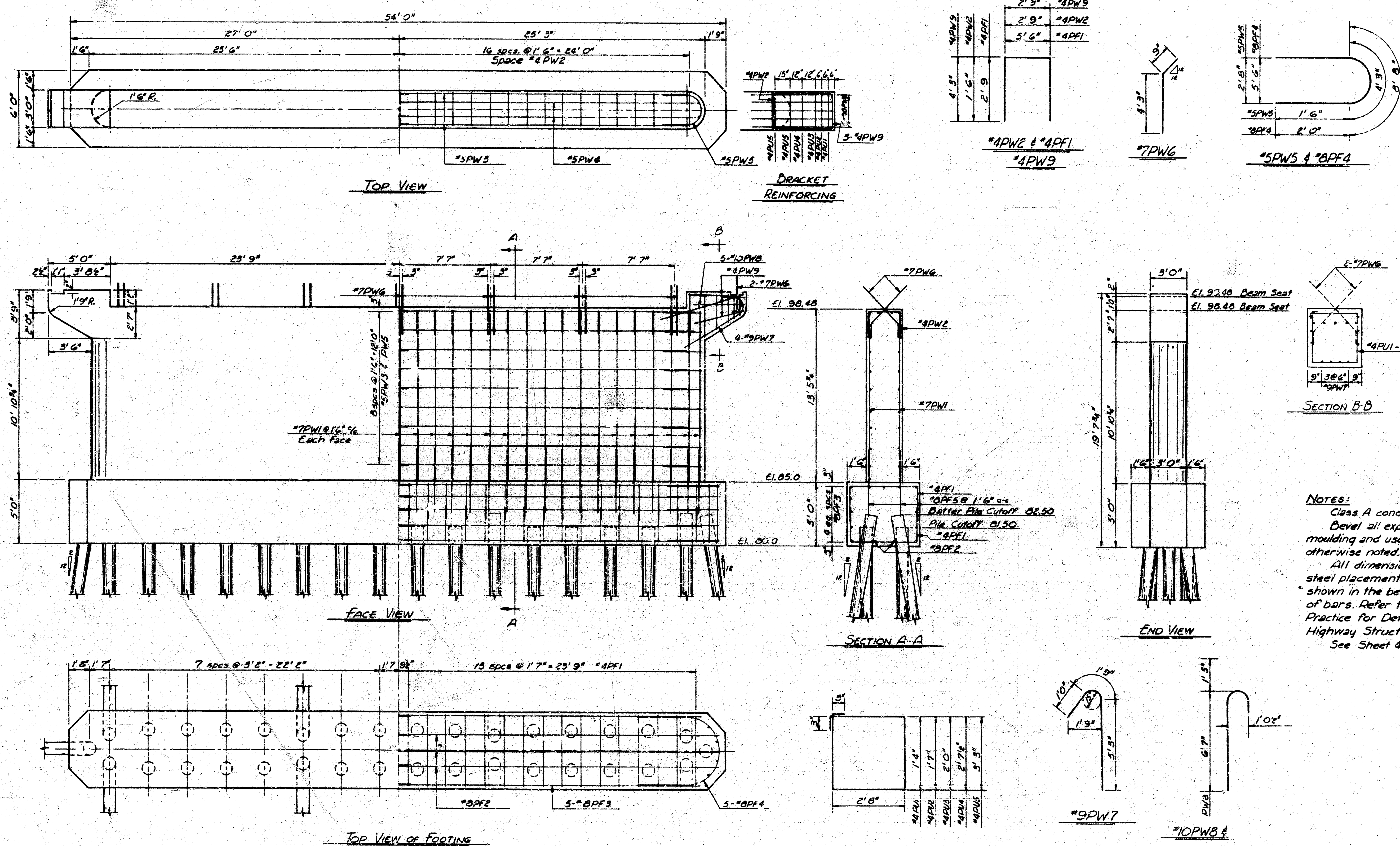
ABUTMENT HANDRAIL DETAILS
Scale 3/4" = 1'-0"

STAIN 570

Notes:

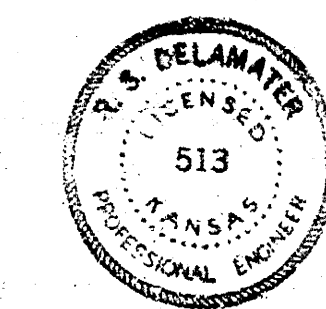
- Class A concrete shall be used throughout.
- Level all exposed edges with a $\frac{3}{8}$ " angular mauling and use $\frac{3}{4}$ " fillets in corners unless otherwise noted.
- All dimensions shown relative to reinforcing steel placement are to c/s of bars.
- All dimensions shown in the bending diagrams 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.

SUMMARY OF QUANTITIES															REV.		BY DATE		REVISIONS		DESCRIPTION	
Dur	AF1	AF2	AF3	AH1	AH2	AH3	AH4	AV1	AV2	AV3	AV4	AV5	AO	AP	AR	LEVY STREET BRIDGE						
No. Reqd.	46	46	34	30	4	16	20	92	80	12	6	—	4	47	20	ABUTMENT DETAILS						
Size	"4"	"4"	"8"	"4"	"8"	"4"	"4"	"4"	"8"	"4"	"4"	—	"4"	"4"	"5"	WICHITA DRAINAGE CANAL						
Length	10'6"	5'0"	39'10"	16'6"	7'8"	6'6"	13'0"	5'6"	6'6"	3'9"	11'5"	—	6'9"	3'4"	4'5"	R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS						
Shape	[]	[]											()	)		DATE August, 1952 SCALE 1/4" = 1'-0" DWG. NO. 7904						
Class A Concrete Reinforcing Steel Tr. Timber Piling															6.32 Cu.Yds. 5430 Lbs. 735 Lin.Ft.							



NOTES:
Class A concrete shall be used throughout.
Develop all exposed edges with a 3/4" triangular
moulding and use 3/4" fillets in corners unless
otherwise noted.
All dimensions shown relative to reinforcing
steel placement are to 1/4" of bars. All dimensions
shown in the bending diagrams are out to out
of bars. Refer to AASHTO Manual of Recommended
Practice for Detailing Reinforced Concrete
Highway Structures.
See Sheet 4 for detail of pile point.

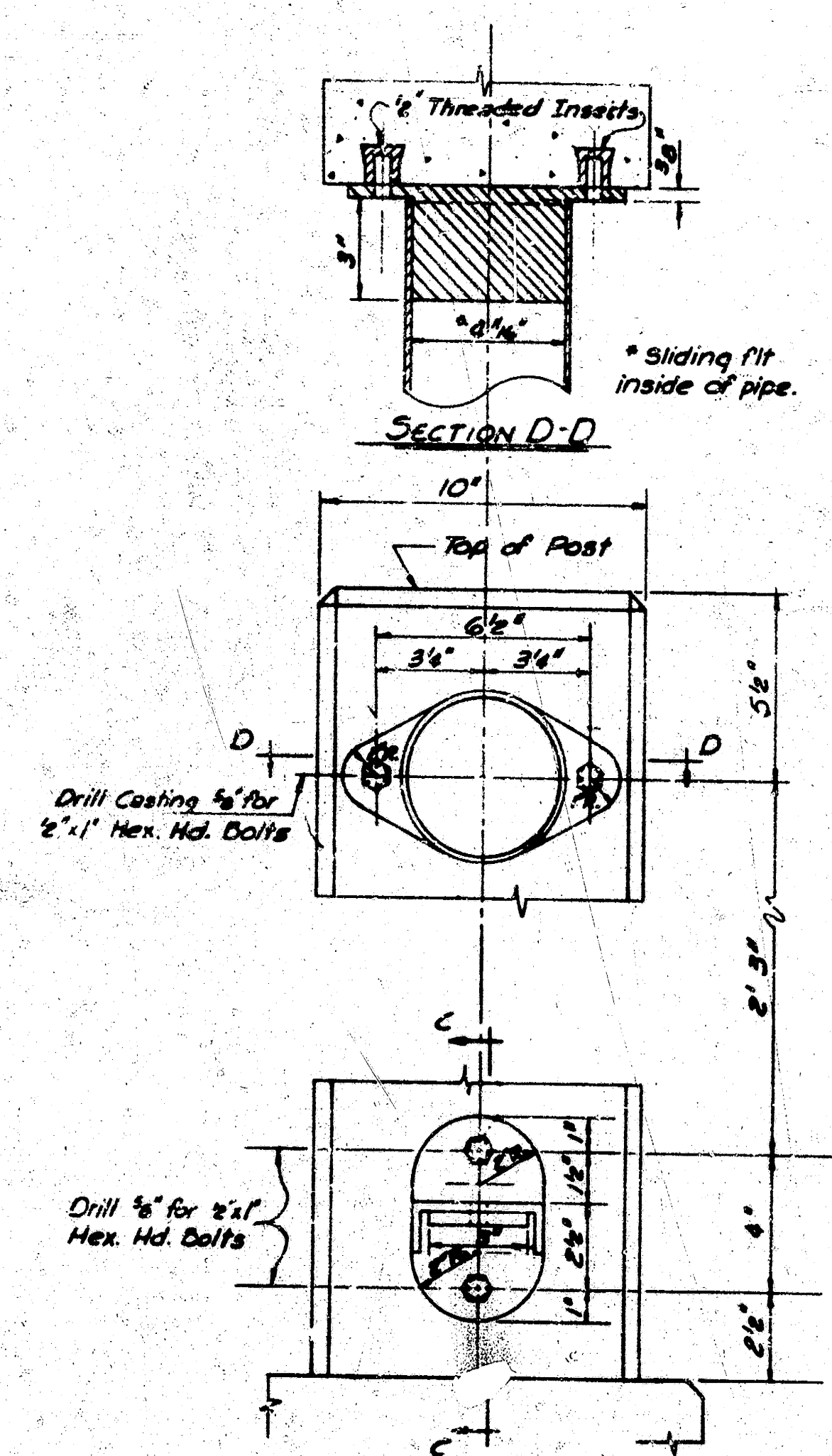
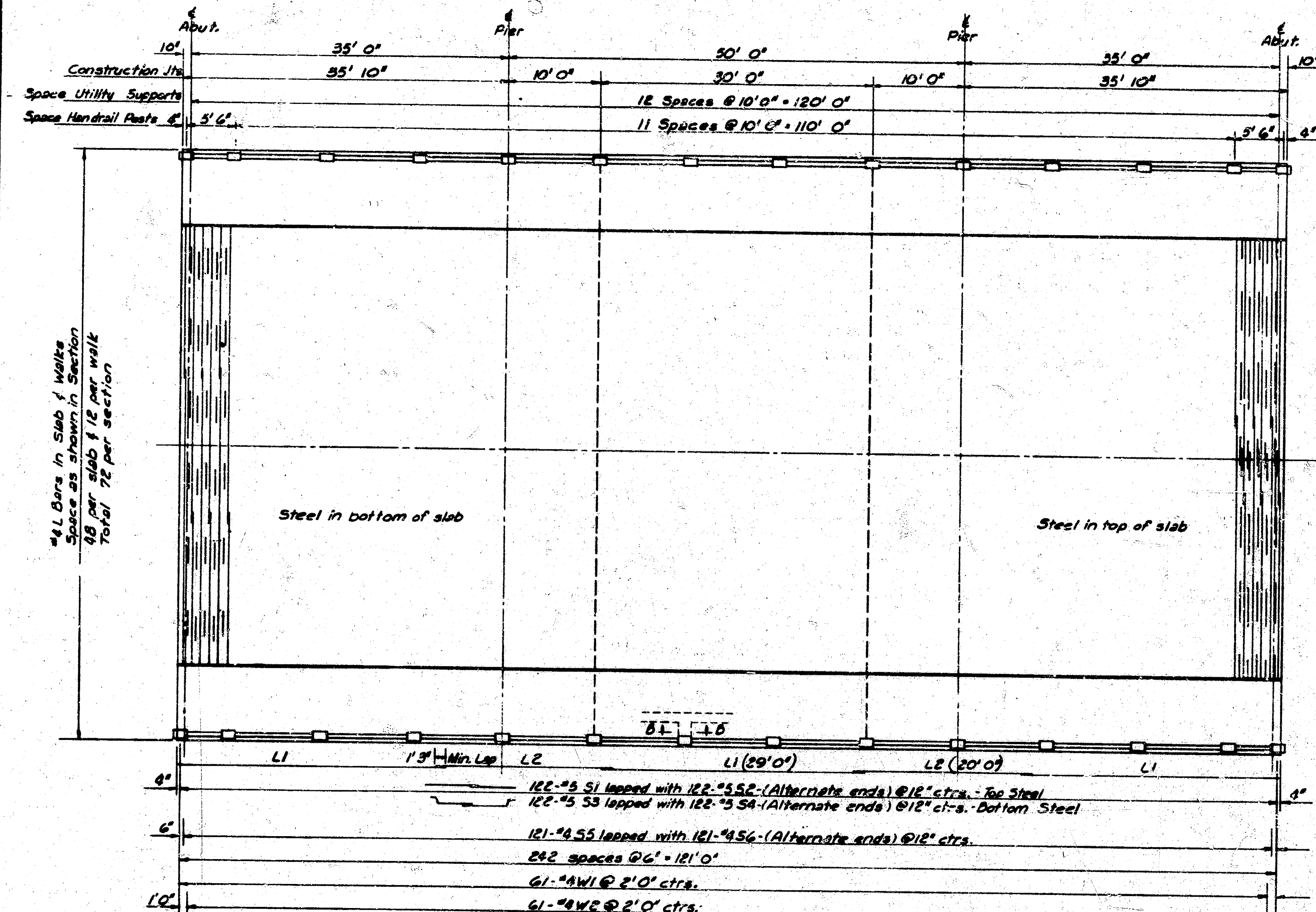
SUMMARY OF QUANTITIES																			
Bar	PF1	PF2	PF3	PF4	PW1	PW2	PW3	PW4	PW5	PW6	PW7	PW8	PW9	PUS	PUS	PUS	PUS	PUS	PUS
No. Req'd	44	10	20	10	70	33	36	4	18	32	6	10	6	2	2	2	2	4	70
Size	#4	#8	#8	#8	#7	#4	#5	#5	#5	#7	#9	#10	#2	#4	#4	#4	#4	#4	#8
Length	11' 0"	27' 6"	23' 3"	18' 8"	13' 3"	5' 5"	28' 6"	23' 3"	7' 3"	5' 0"	8' 0"	8' 0"	11' 3"	8' 6"	9' 0"	9' 10"	11' 1"	12' 3"	5' 0"
Shape																			
Class A Concrete	136.5 Cu. Yds.																		
Reinforcing Steel	7680 Lbs.																		
Tr. Timber Piling	680 Lin. Ft.																		



LEVY STREET BRIDGE
PIER DETAILS

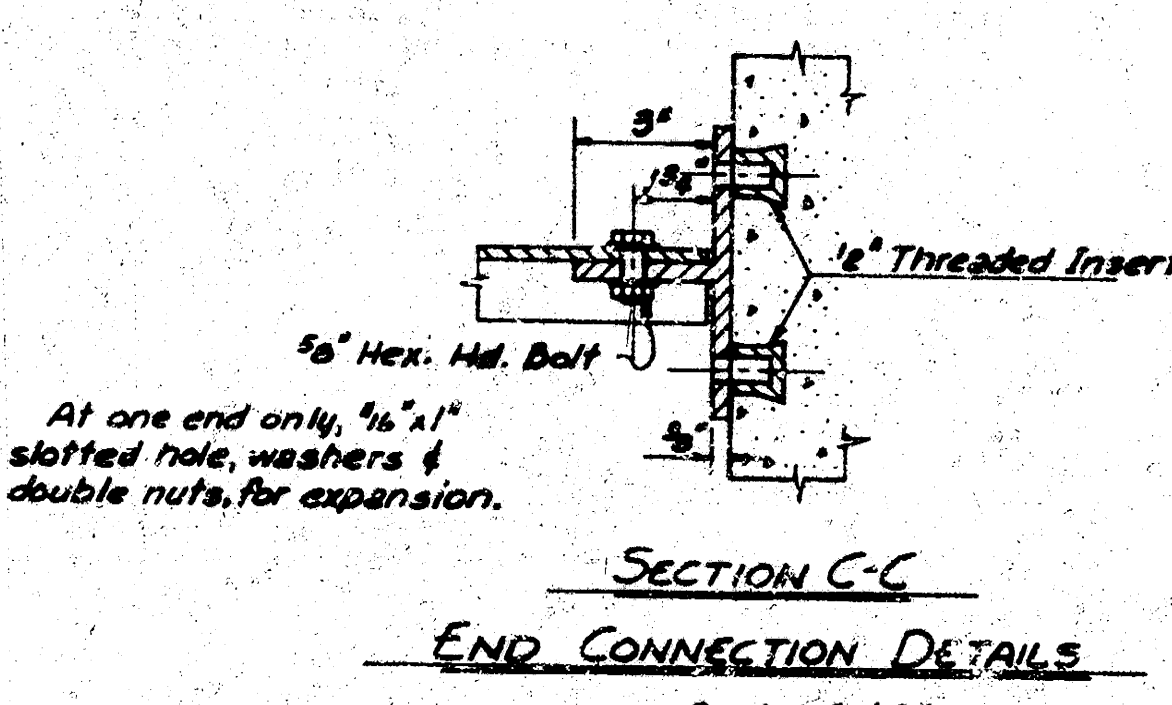
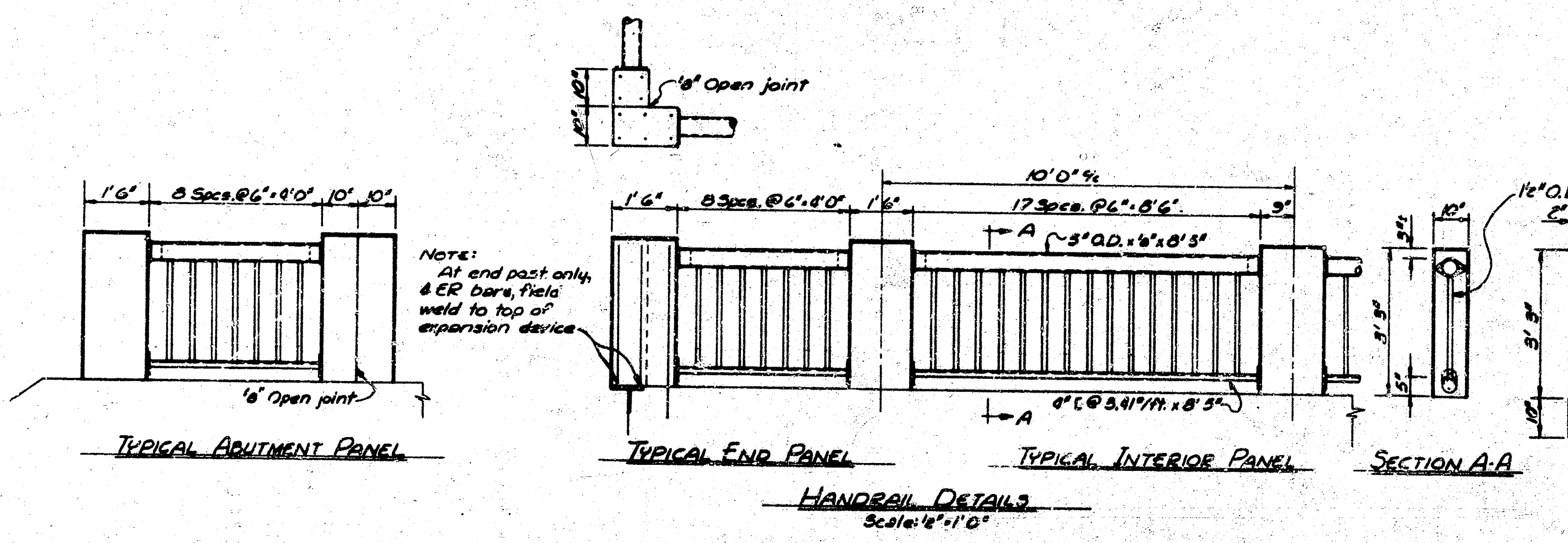
WICHITA DRAINAGE CANAL

R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS
DATE August, 1952
SCALE 1/4" = 1'-0"
DWG. NO. 7905



NOTES:
Unit price bid for Metal Handrail includes fabricated handrail sections as shown, complete and in place, including aluminum end castings, concrete inserts and connecting bolts.
Concrete inserts shall be cast iron; all connecting bolts and nuts shall be galvanized or cadmium plated steel. All other parts of rail shall be aluminum: tubing and channels - 613-T6; end castings 43, wire brush finish.
Surface of castings in contact with concrete shall be coated with Aluminastic or equal bituminous compound before placing. A coating of the same material shall be placed under all bolt heads.
Bevel all corners of Handrail Posts 1/2".

SUPERSTRUCTURE GENERAL NOTES:
See Sheets 7 & 8 for details of Slab and Girder reinforcing.
All Concrete shall be Class A. Bevel all exposed edges with a 3/4" 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.



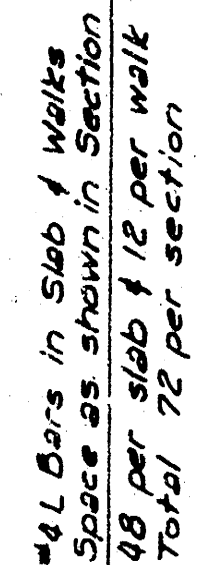
VOID - See Revision 11-1-52

**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. 7306

HANDRAIL QUANTITIES	
Metal Handrail	219 Lin. Ft.



Scale: 1/8" = 1' 0"

See Sheets 748 for details of Slab and Girder reinforcing.

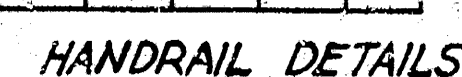
All Concrete shall be Class A. Bevel all exposed edges with a $\frac{3}{4}$ " triangular moulding. Fillet all corners $\frac{3}{4}$ " unless otherwise noted.

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

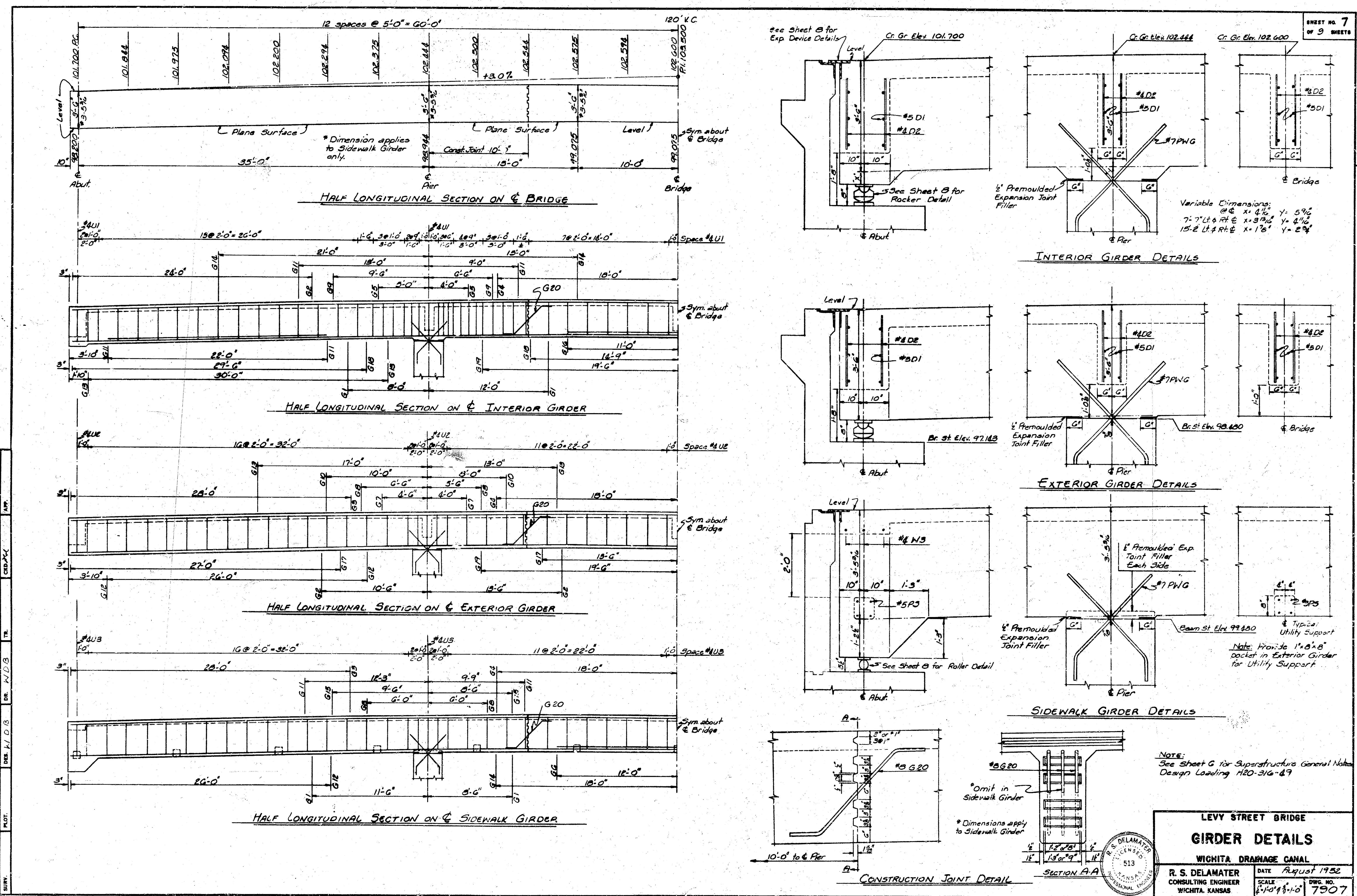
All Superstructure falsework shall be left in place until such time that the concrete has attained its designed strength.

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.

Class A Concrete	8.5 cu. yds.
Reinforcing Steel	2250 lbs.



A	DC7	11-10-52	Revised Handrail
REV.	BY	DATE	DESCRIPTION
LEVY STREET BRIDGE			
SUPERSTRUCTURE PLAN & HANDRAIL DETAILS			
WICHITA DRAINAGE CANAL			
R. S. DELAMATER		DATE	August, 1952
CONSULTING ENGINEER		SCALE	SWG. NO.
WICHITA, KANSAS		As shown	7906



SHEET NO. 7
OF 9 SHEETS

LEVY STREET BRIDGE
GIRDER DETAILS
WICHITA DRAINAGE CANAL
R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS
DATE August 1952
SCALE 1/4" = 1'-0"
DWG. NO. 7907

