

INDEX OF SHEETS

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- " " 5 DESIGN OF FEDERAL AID HIGHWAY PROJECT MARKERS
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STATE OF SOUTH CAROLINA STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

U.S. WORKS PROGRAM

GRADE CROSSING PROJECT NO. W.P.G.M. 407-A

McDANIEL AVENUE

GREENVILLE COUNTY

BRIDGE OVER C.&W.C. R. R. IN CITY OF GREENVILLE

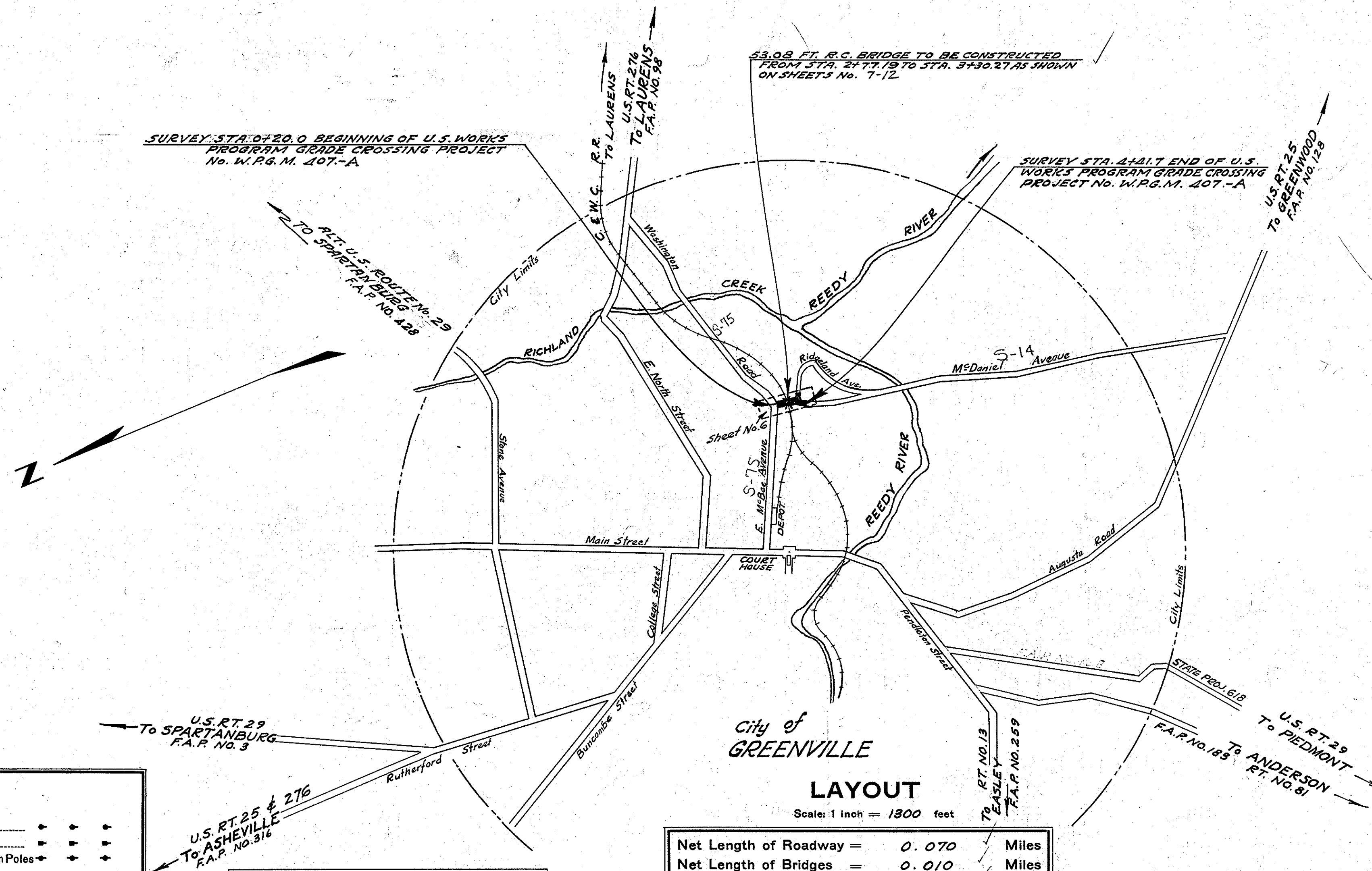
SCALES: PLAN AND PROFILE 1 INCH=25 FEET HORIZONTAL; 1 INCH=5 FEET VERTICAL.

FED. ROAD DIST. NO.	STATE	COUNTY	W.P.G.M. PROJ. NO.	ROUTE No.	SHEET No.	TOTAL SHEETS
14	S. C.	GREENVILLE	407-A	STREET	1	13

SUMMARY OF ESTIMATED QUANTITIES

STATION	SHEET NO.	ITEM	CONCRETE (CU. YDS.)		REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)			PILES (LINEAR FEET)		RIP RAP
			CLASS "A"	CLASS "B"		STRUCTURES	WET	DRY	TREATED	UNTREATED	
	3	ENDWALLS FOR PIPE CULVERTS		0.66							
TOTAL PIPE FOR CULVERTS			TOTALS		0.66						
DIAM.		CORRUGATED IRON	REINF. CONCRETE		TOTAL COMMON EXCAVATION						
16"		LINEAR FEET	87 LINEAR FEET		1060.00 CU. YDS.						
18"		"			103.60 SQ. YDS.						
24"		"			13.47 SQ. YDS.						
30"		"			1414.80 SQ. YDS.						
36"		"			472.00 LIN. FT.						
TOTAL FOR RELAY PIPE CULVERTS					349.88 LIN. FT.						
DIAM.		LINEAR FEET			TOTAL CATCH BASINS						
16"		"			2						
18"		"			432.70 SQ. YDS.						
24"		"			44.40 SQ. YDS.						
30"		"			7.50 SQ. YDS.						
36"		"			211.10 LIN. FT.						
					TOTAL REMOVAL AND DISPOSAL OF EXISTING PAVEMENT						
					1000.00 C.Y.H.M.						
					TOTAL REMOVAL AND DISPOSAL OF EXISTING SIDEWALK						
					33.30 SQ. YDS.						
					TOTAL WIRE MESH REINFORCEMENT						
					33.30 SQ. YDS.						

SUMMARY OF BRIDGE QUANTITIES	
CLASS "A" CONCRETE	679.1 CU. YDS.
REINFORCING STEEL	101,027 LBS.
WET & DRY EXCAV.	888.0 CU. YDS.
ROCK EXCAVATION	" " "



CONVENTIONAL SIGNS

State Line	Trolley Poles	•	•	•
County Line	Power Poles	•	•	•
City or Town Limits	Telephone or Telegraph Poles	•	•	•
Property Line	Marsh	•	•	•
Fence	Brush	•	•	•
Retaining Wall	Stumps	•	•	•
Existing Road	Buildings	•	•	•
Q and R.O.W. Lines of	Bridge	•	•	•
Proposed Road	Concrete Box Culvert	•	•	•
Railroad	Pipe Culvert	•	•	•
Levee or Embankment	Drop Inlet and Culvert	•	•	•
Guard Rail	Hub on Center Line	•	•	•
Point of Intersection (P. I.)		•	•	•

LEGEND

PROPOSED PROJECT
OTHER ROADS

LAYOUT

Scale: 1 inch = 1300 feet

Net Length of Roadway	=	0.070	Miles
Net Length of Bridges	=	0.010	Miles
Net Length of Project	=	0.080	Miles
Length of Exceptions	=	0.000	Miles
Gross Length of Project	=	0.080	Miles

Equalities in Stationing
None

Note: All workmanship and material on this project to conform with South Carolina State Highway Department Specifications, Contract and Bond; for Roads and Structures revised July 1st, 1933, as amended and approved by the U. S. Secretary of Agriculture.

APPROVED _____ DATE _____
MAYOR OF GREENVILLE

RECOMMENDED FOR APPROVAL _____ DATE _____
CITY ENGINEER

RECOMMENDED FOR APPROVAL _____ DATE _____
CHIEF ENGINEER - BUREAU OF PUBLIC ROADS

APPROVED _____ DATE _____
COUNCILMEN

APPROVED _____ DATE _____
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL _____ DATE _____
DISTRICT ENGINEER - BUREAU OF PUBLIC ROADS

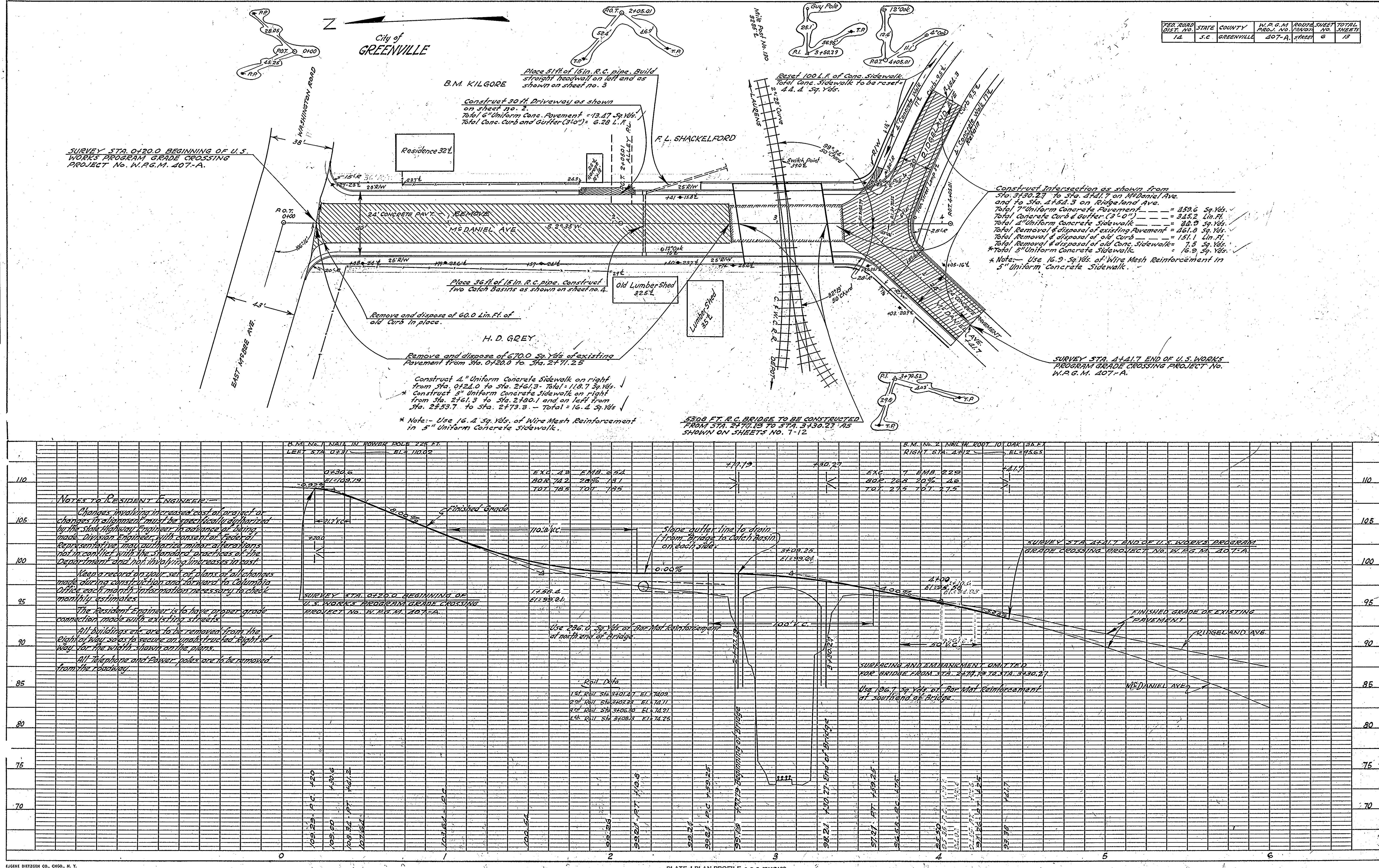
RECOMMENDED FOR APPROVAL _____ DATE _____
CHIEF ENGINEER - BUREAU OF PUBLIC ROADS

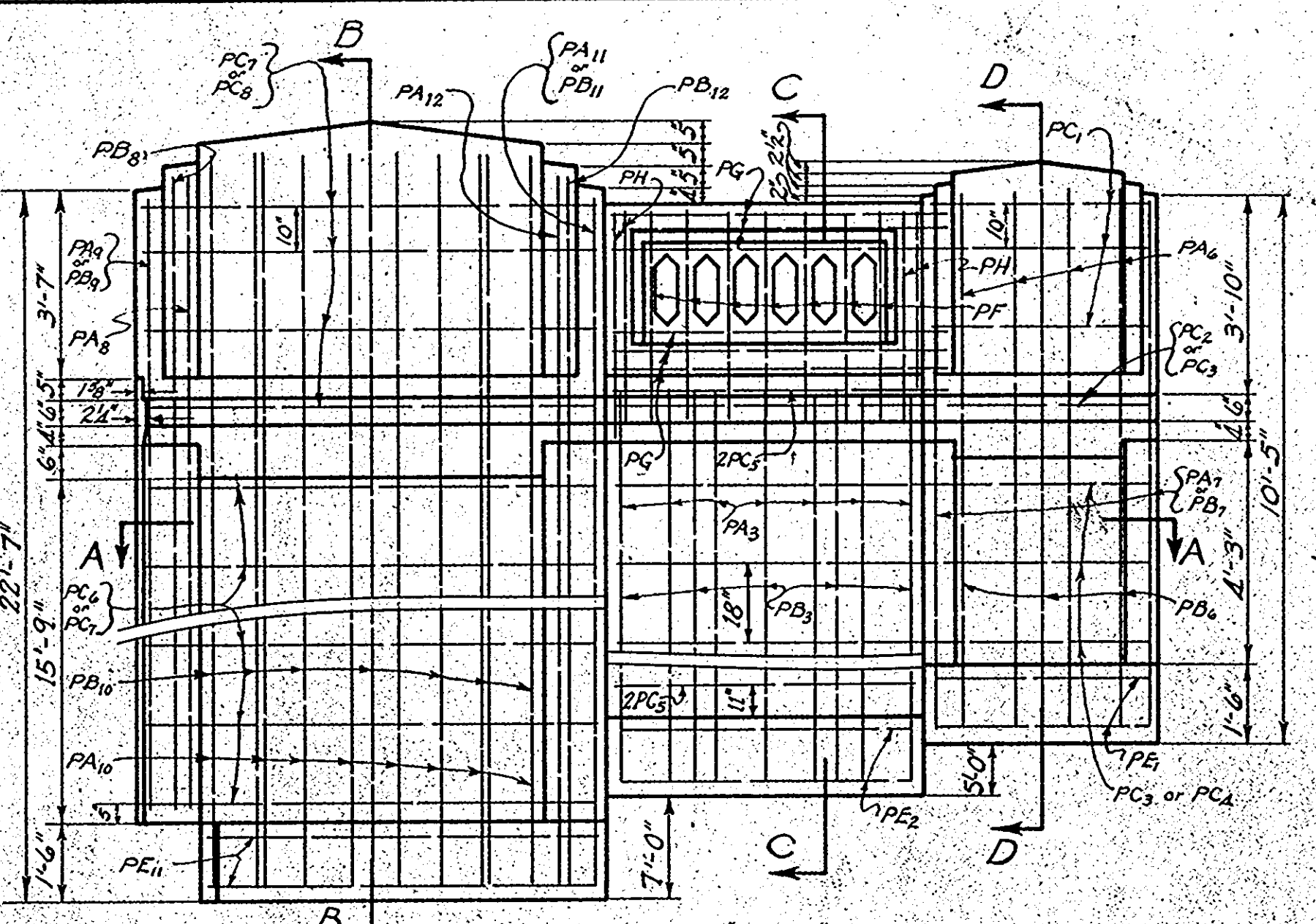
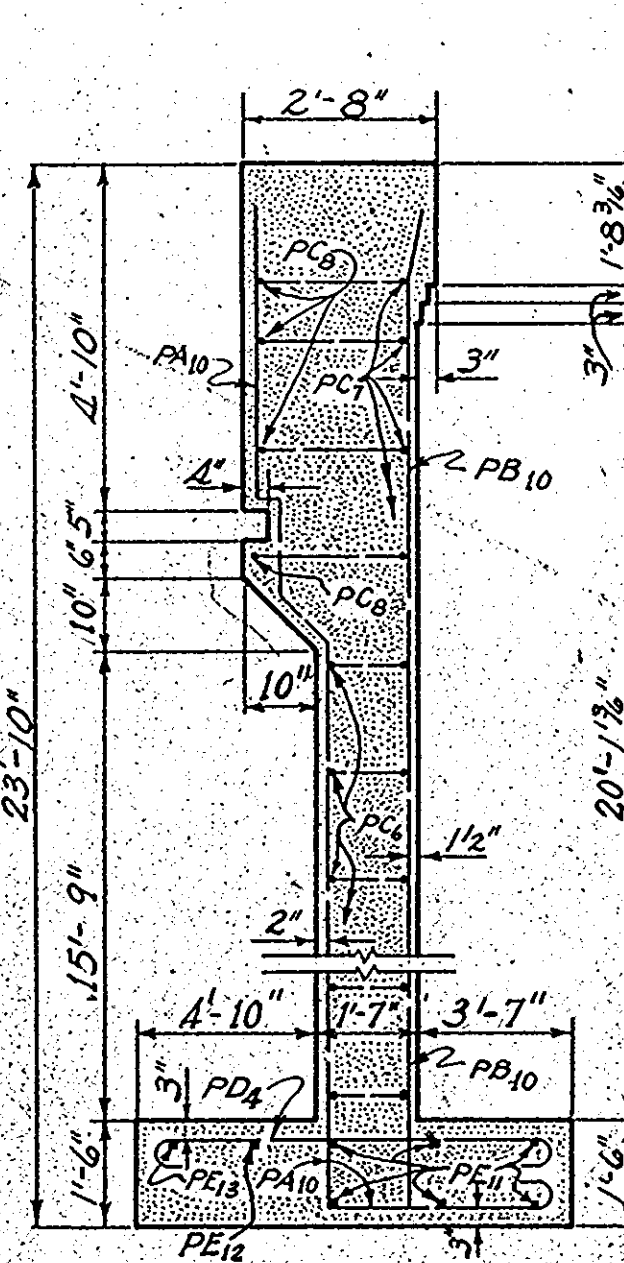
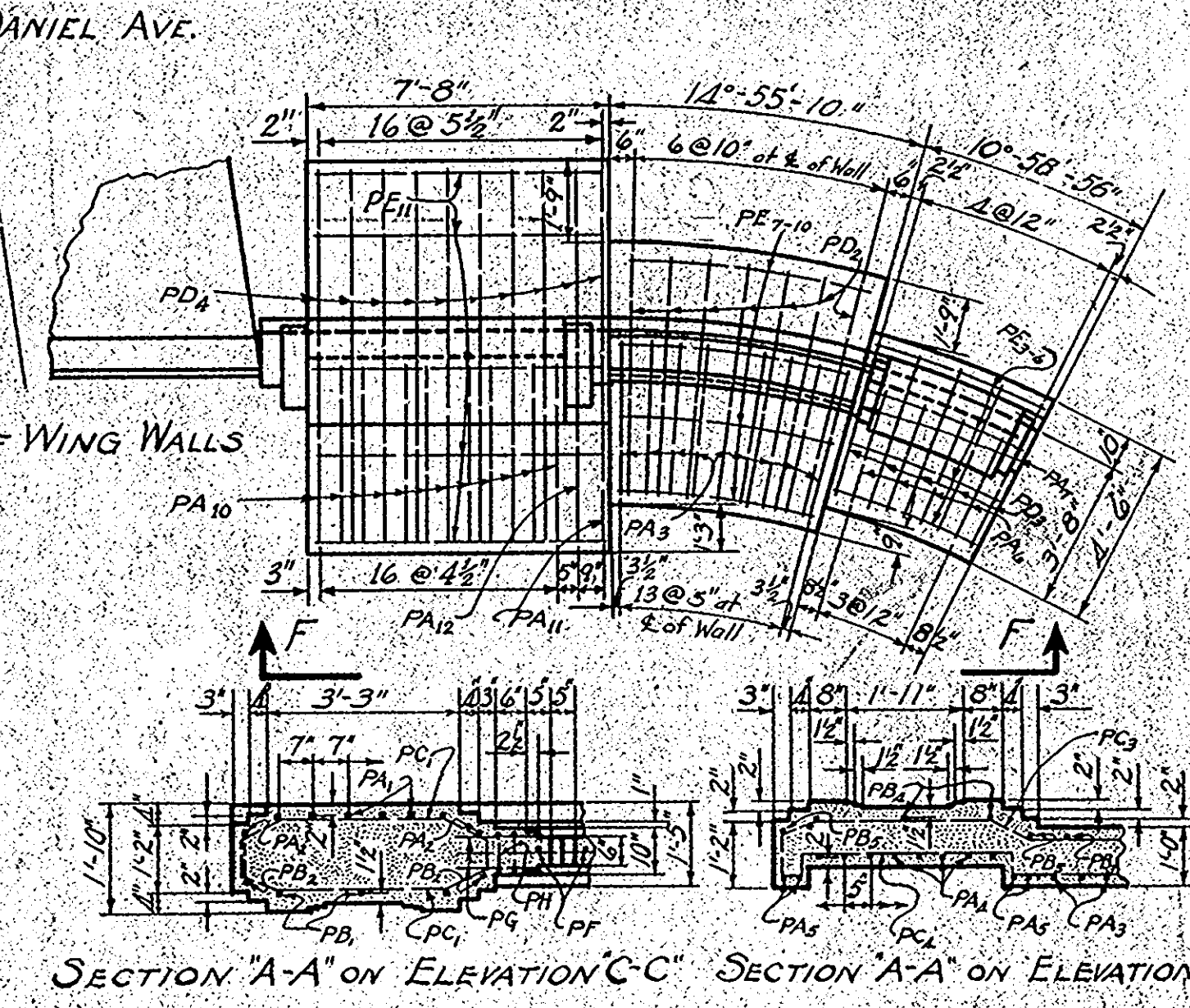
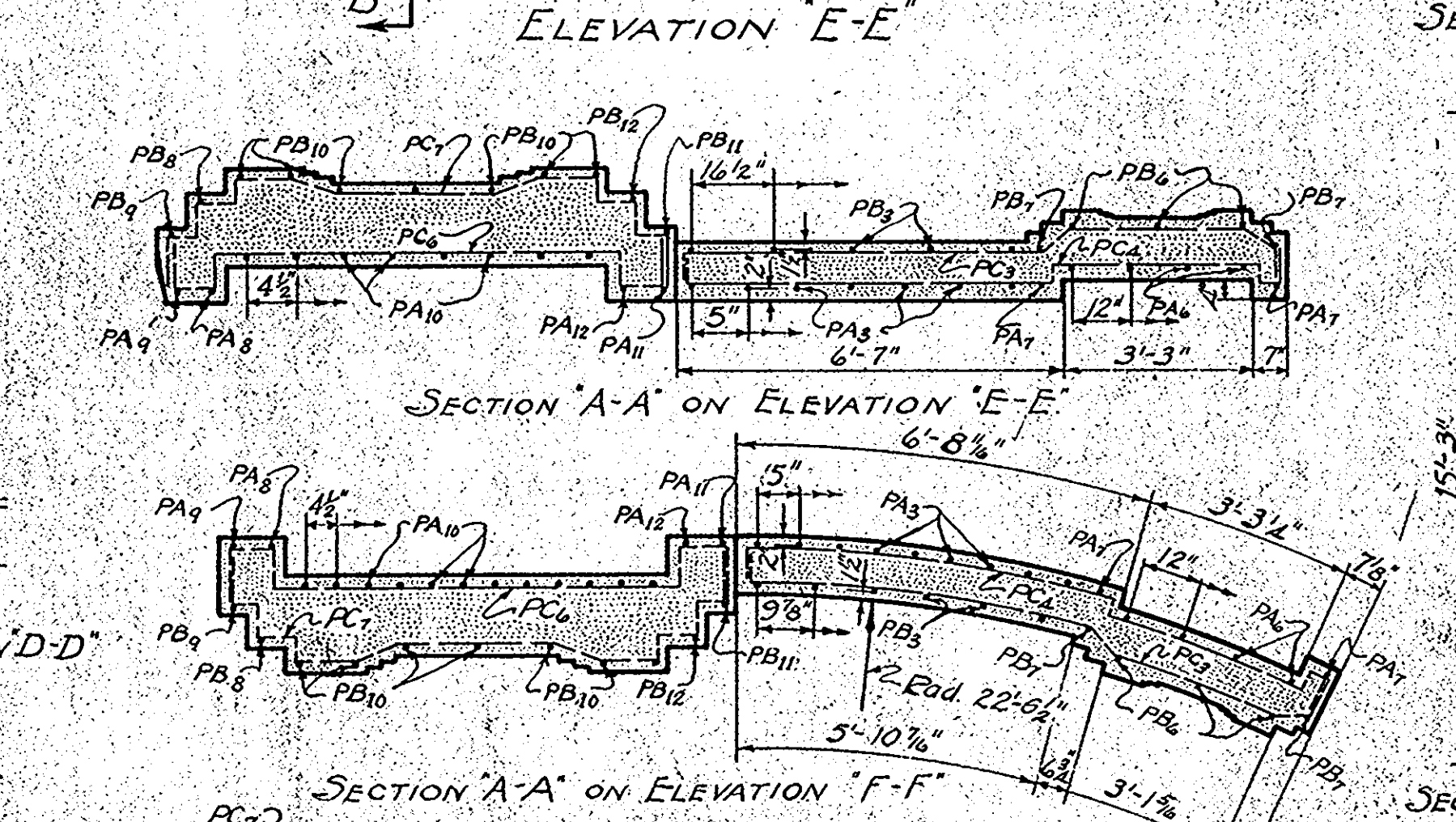
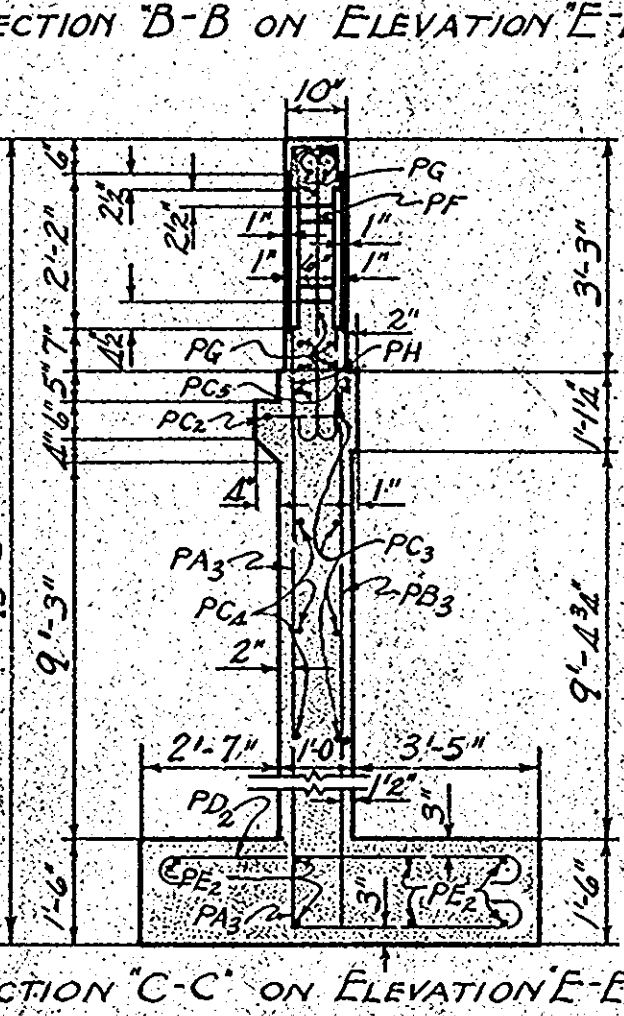
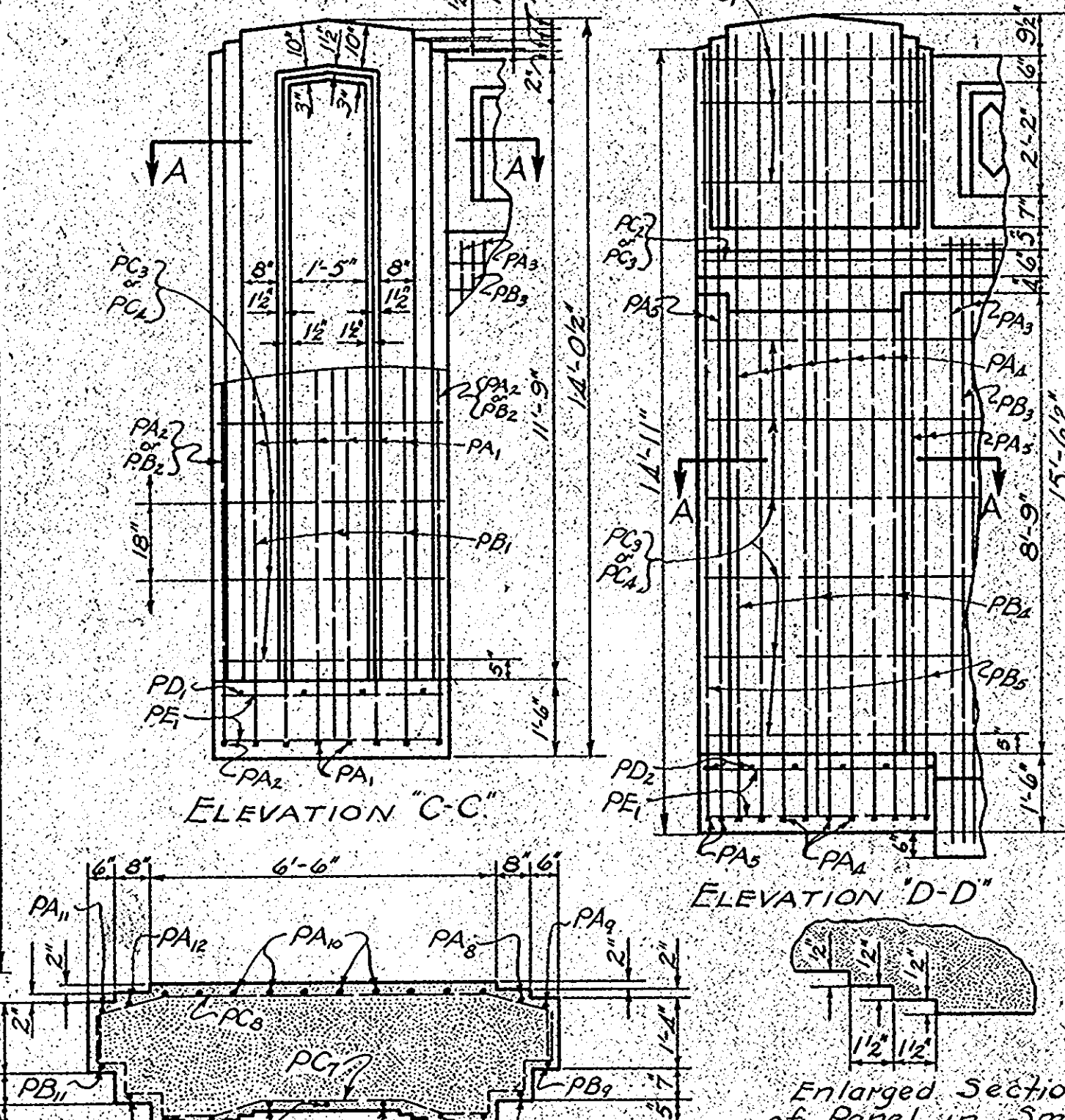
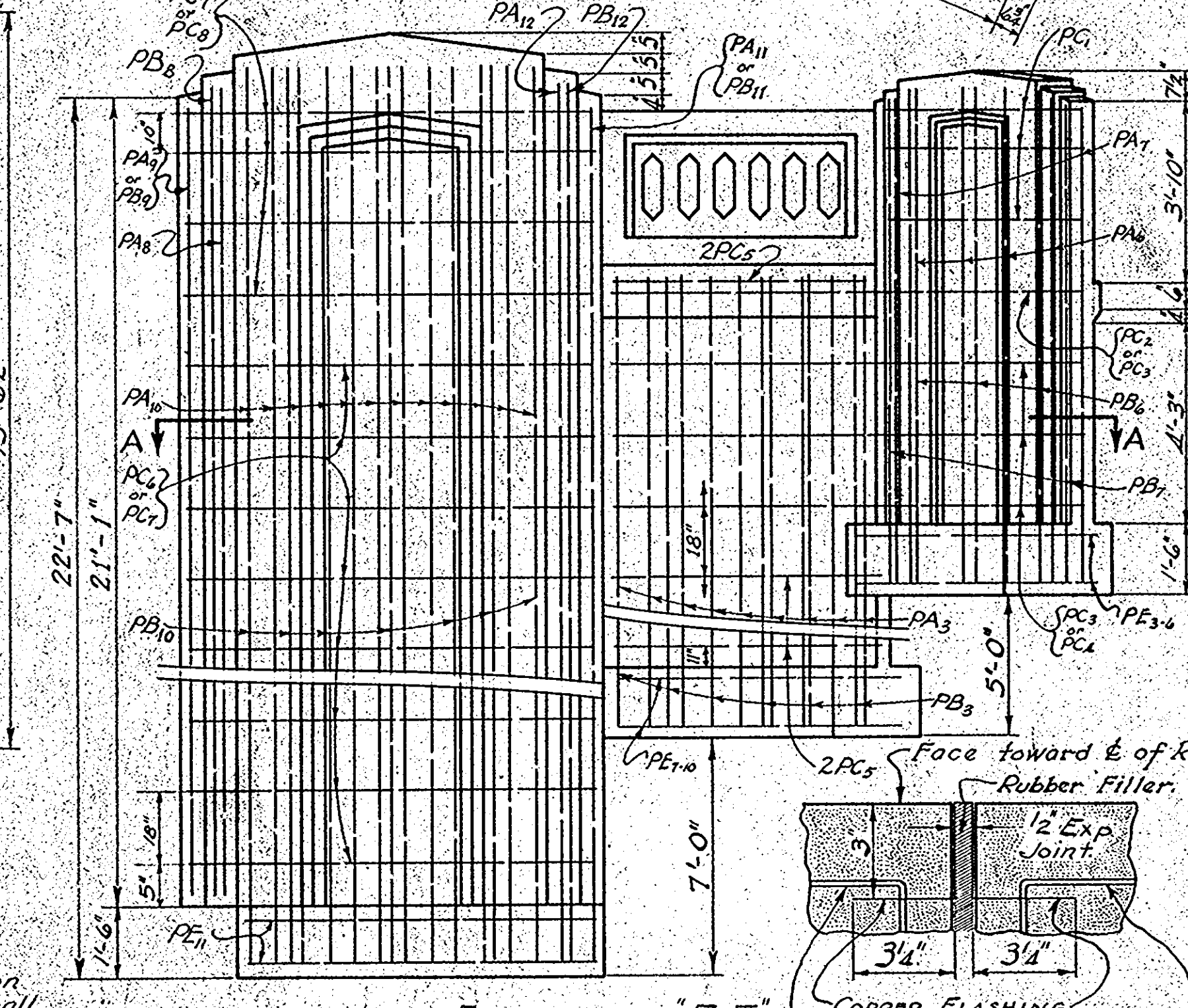
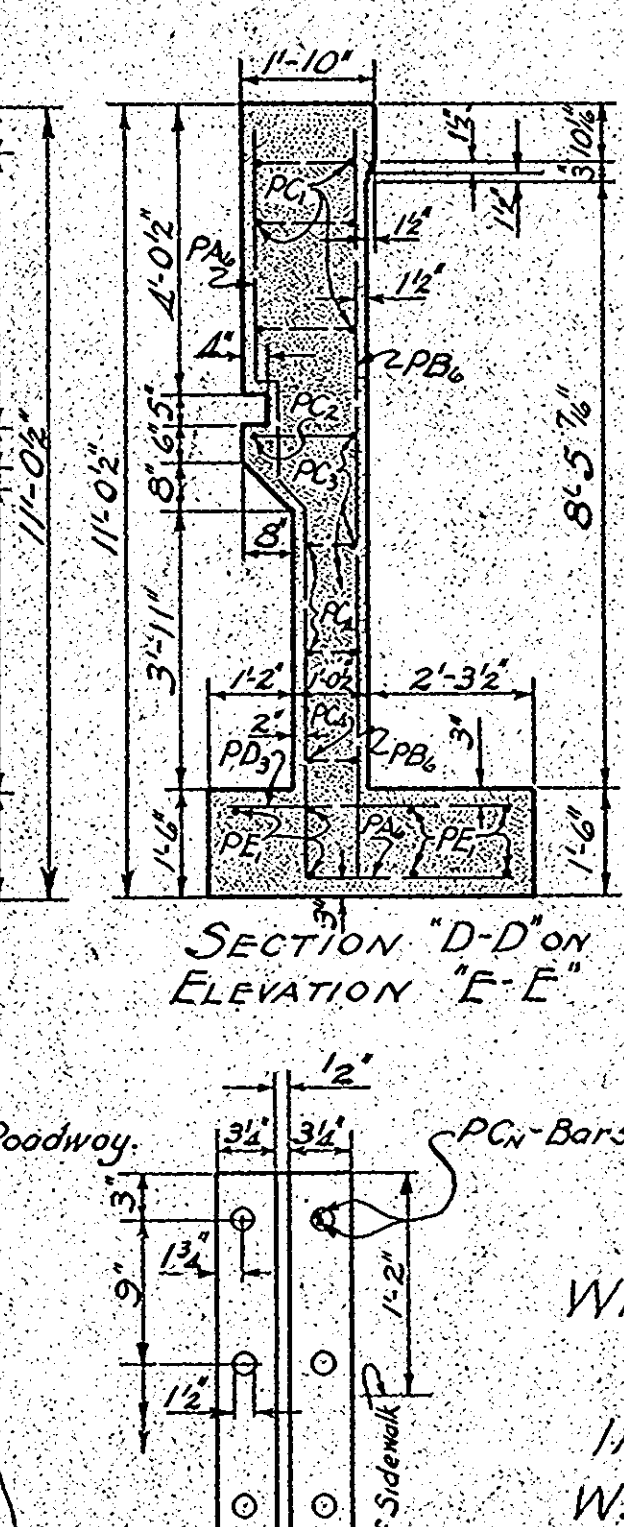
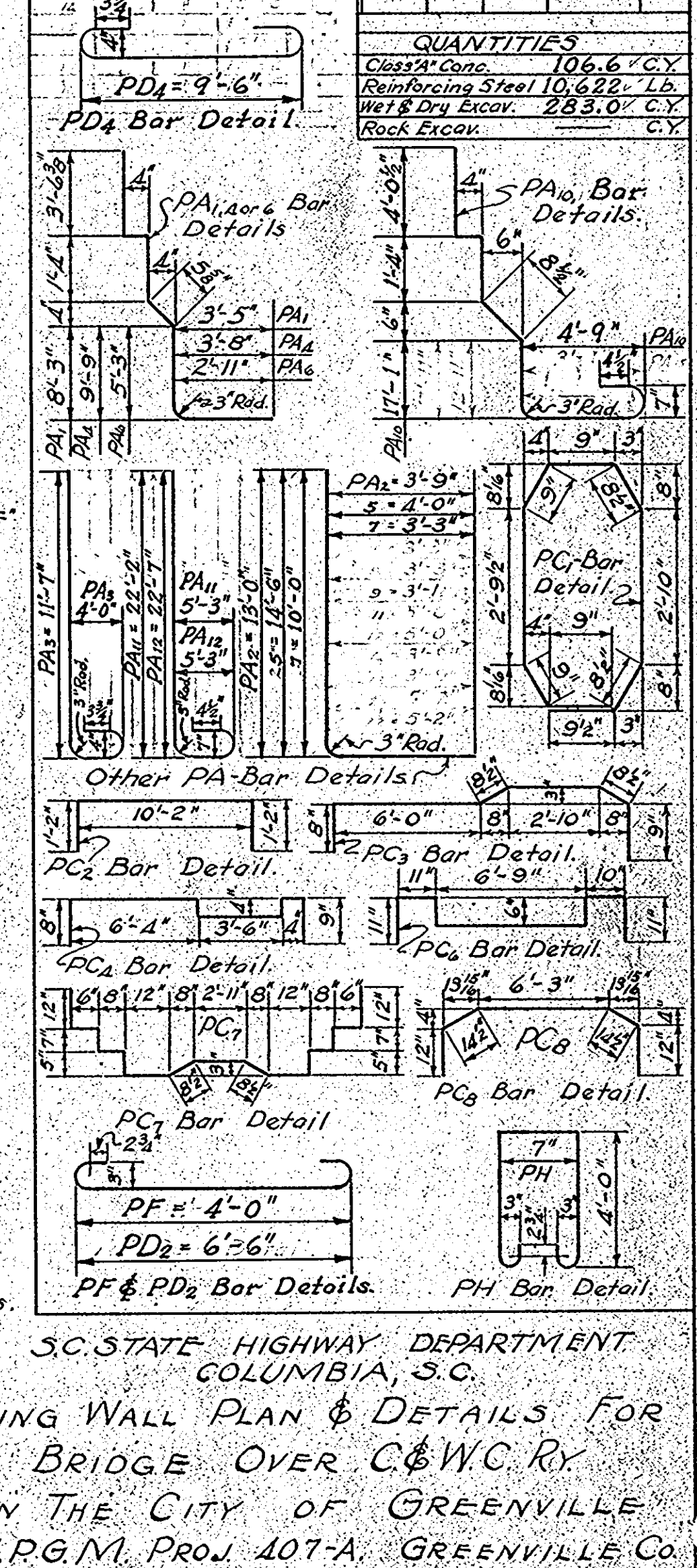
APPROVED _____ DATE _____
DIRECTOR - BUREAU OF PUBLIC ROADS

FED. ROAD DIST. NO.	STATE	COUNTY	N.P.G.M. PROJ. NO.	ROUTE	SHEET NO.	TOTAL SHEETS
1A	S.C.	GREENVILLE	407-A	STREET	6	13

PLAN	DATE	BY	NO.
SURVEYED	1/27	W. J. STANBARD	
NOTED			
PLOTTED			
CHECKED			
RT. OF WAY CHECKED			

PROFILE	DATE	BY	NO.
SURVEYED	1/27	W. J. STANBARD	
NOTED			
PLOTTED			
CHECKED			
STRUCTURE NOTATION CHECKED			





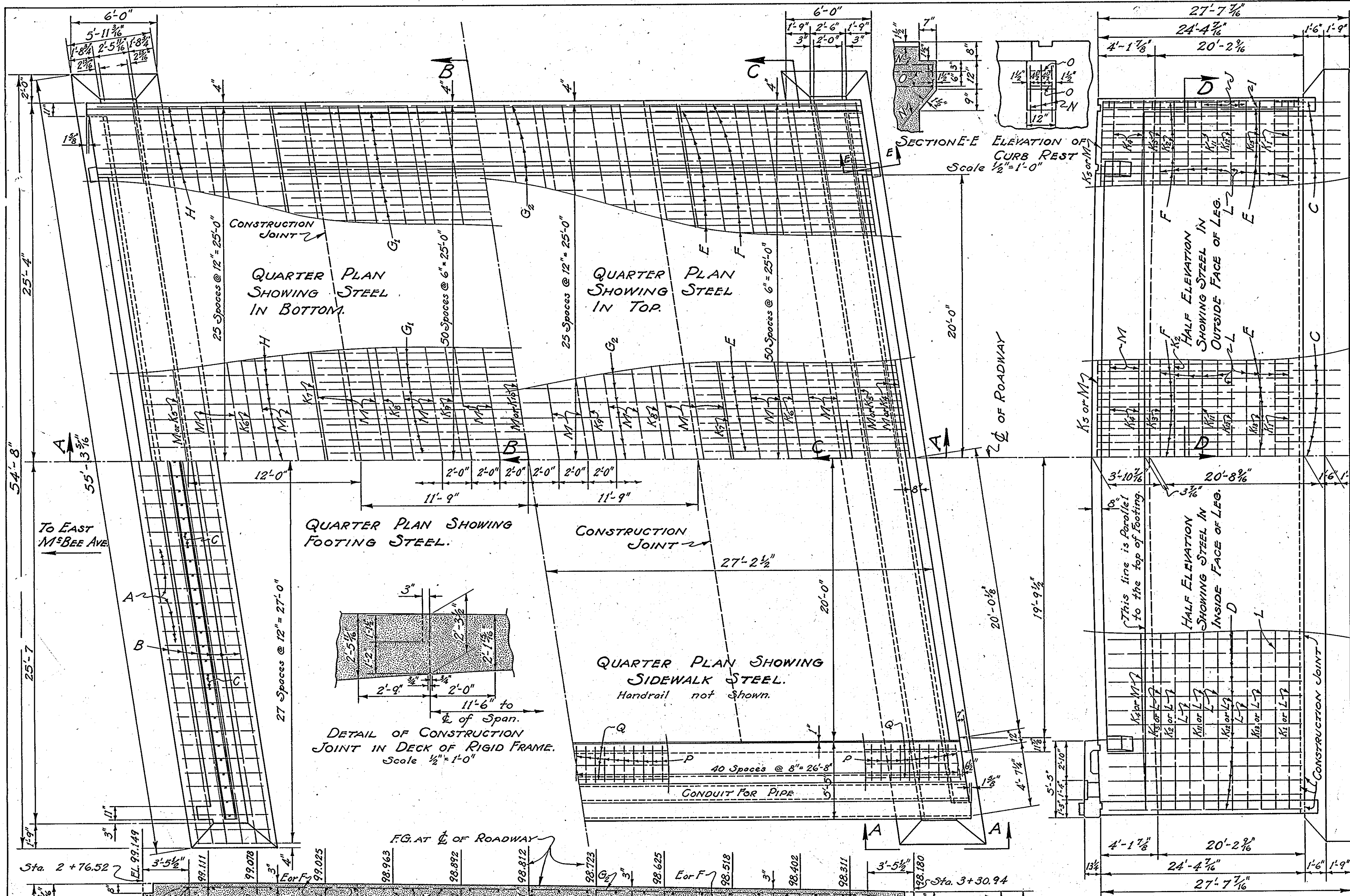
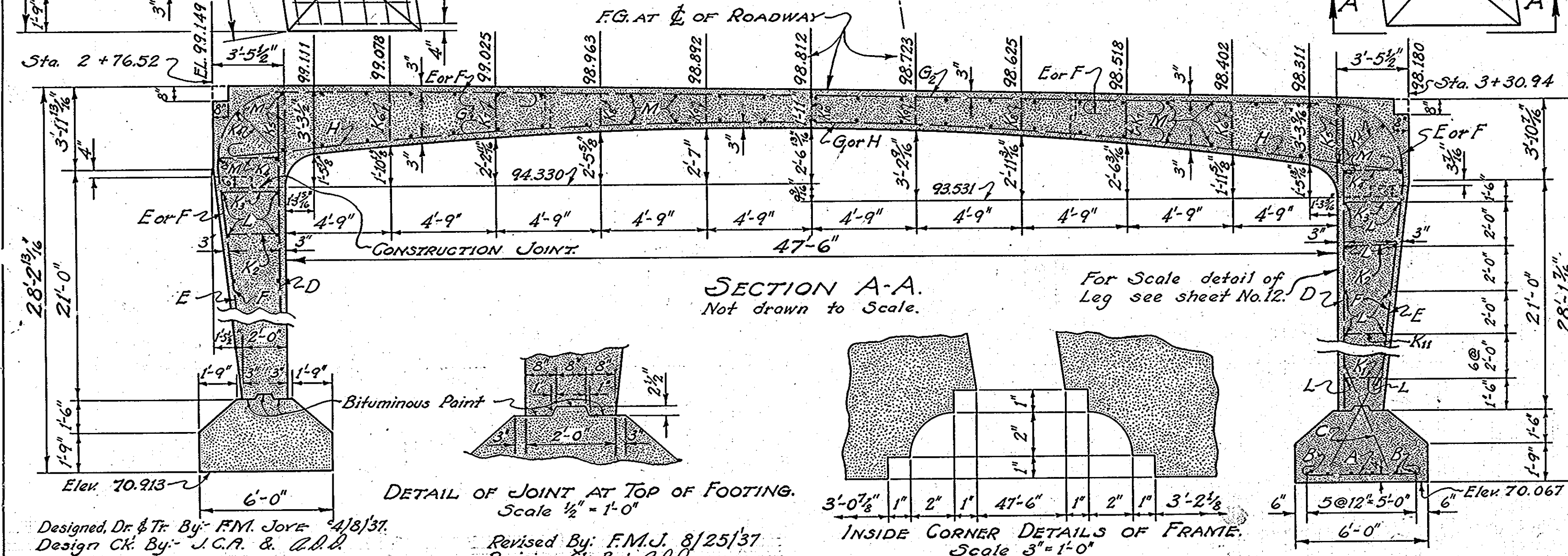
SECTION "B-B" ON ELEVATION "A-A"

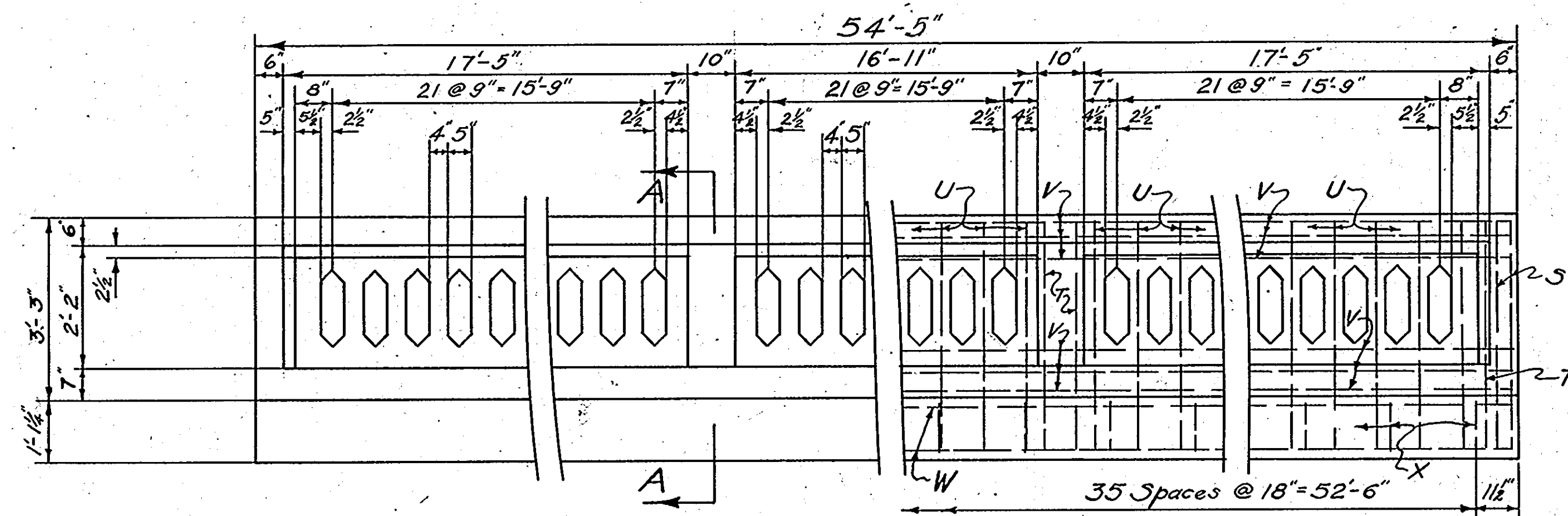
At joint between wall and Rigid Frame leg (See sheets 8 and 11) thread the J-bars in the Frame leg through the Flashing as shown here.

PC Bars are to be threaded through Flashing Holes.
Scale 3"=1'-0"

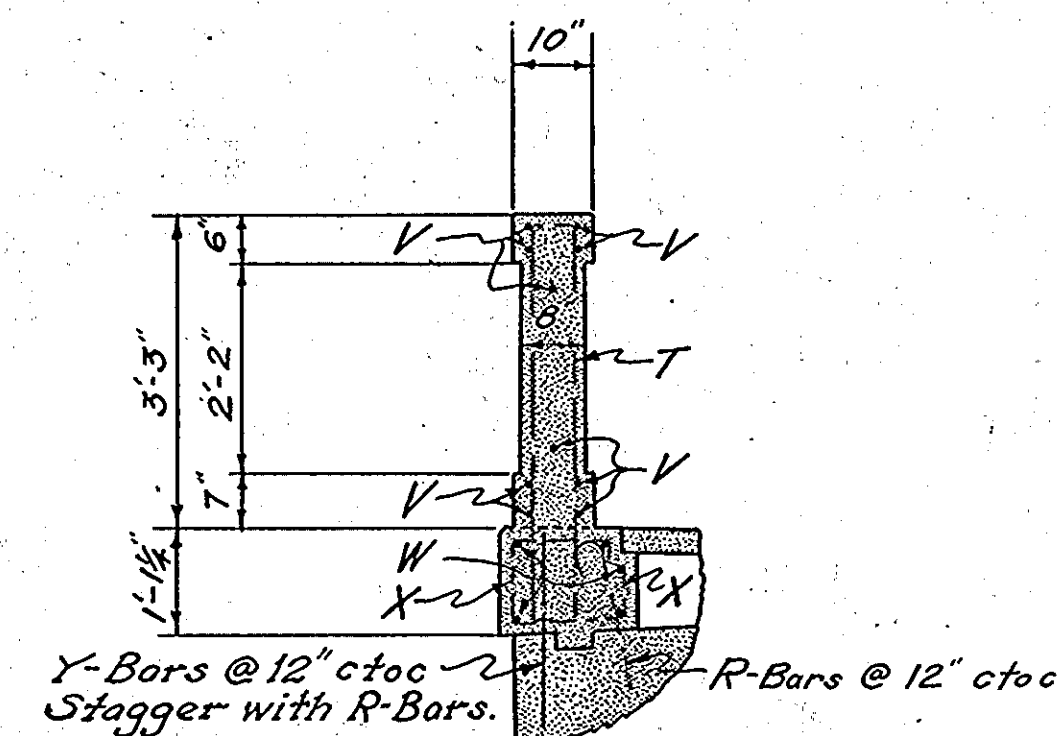
23. APRIL 1936. MCDANIEL AVE
COOPER FLASHING. DETAILS.
13" x 24 Gage
SCALES 1/4" & 3/8" = 1'-0"

ROAD DIST. NO.	STATE	COUNTY	ROUTE NO.	W.P.G.M. PROJ. NO.	SHEET NO.	TOTAL SHEETS
14	S.C.	GREENVILLE	CITY ST.	407A	11	13





SIDE ELEVATION OF RAIL



SECTION A-A

NOTES:-

Conduit for Pipe Lines to be covered by precast Concrete Slab in Sections approximately 4'-0" long. The section lines are to conform with the sidewalk markings and are to be as shown on the Plan and Profile Sheet.

All joints between precast concrete Slab Sections and Sidewalk Slab are to be filled with an approved Mastic Filler.

The precast cover Sections are to be reinforced with American Steel and Wire Company's, American Welded Fabric 6" X 6" Mesh, No 5 X No 5 wires, or equal, placed 2" below top surface of Slab. The Sections are to be of equal thickness and shall be set with the top surfaces flush with the sidewalk.

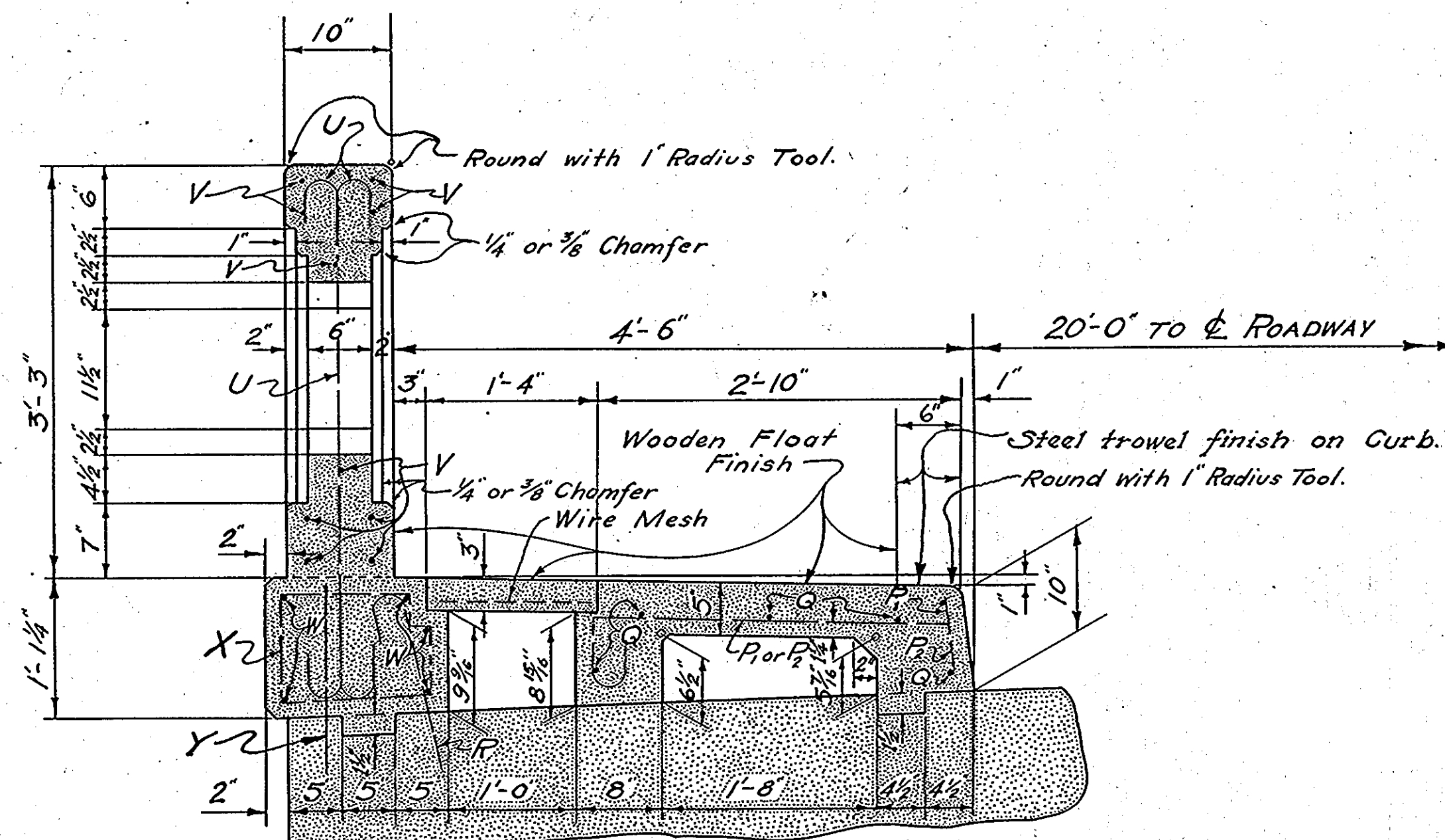
Each cover Section shall be equipped with a Lifting Ring imbedded in the section so that the Ring is flush with the top of the Sidewalk when it is not in the lifting position. The Lifting Rings shall be approved by the Resident Engineer. The cost of furnishing and Placing the Lifting Rings shall be included in the Unit Price bid for Concrete.

In case conduit is not large enough for bell of water main, an indentation as deep as one inch may be made in cover slab. If this is not enough, the Resident Engineer shall determine location of bells before concrete in Rigid Frame is placed so that the Contractor may make indentations, not deeper than one inch, in the Rigid Frame. Indentations in Rigid Frame shall be as far as practicable from mid-span. This work shall be done at no extra cost to the Highway Department.

Maximum aggregate to be used in Rail shall be 3/4".

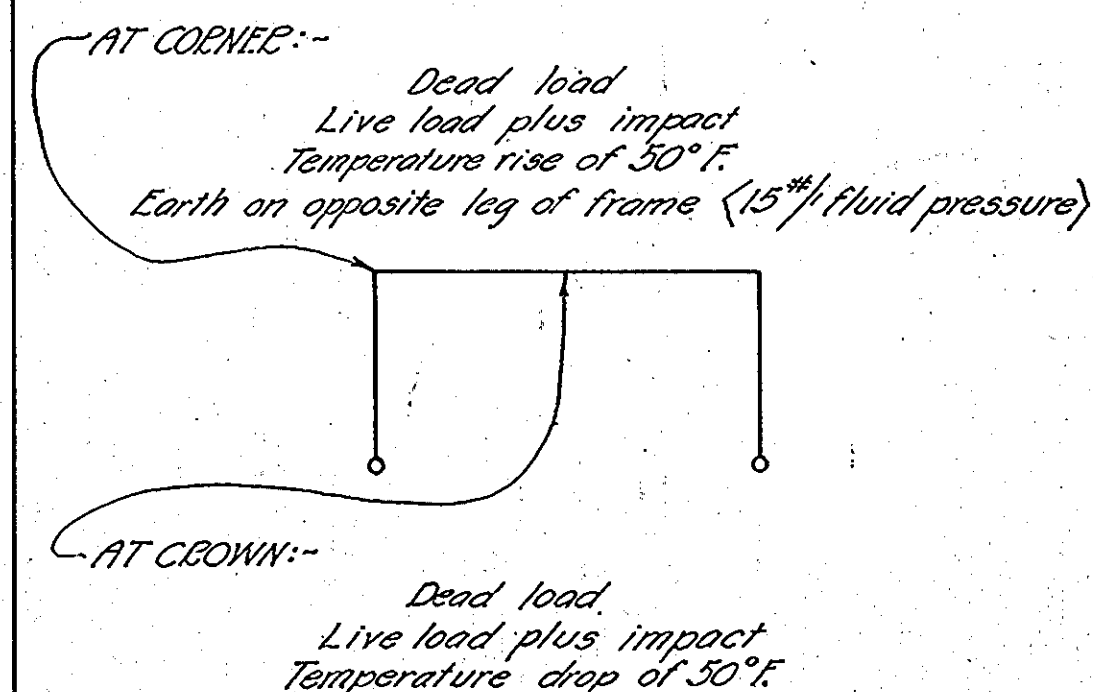
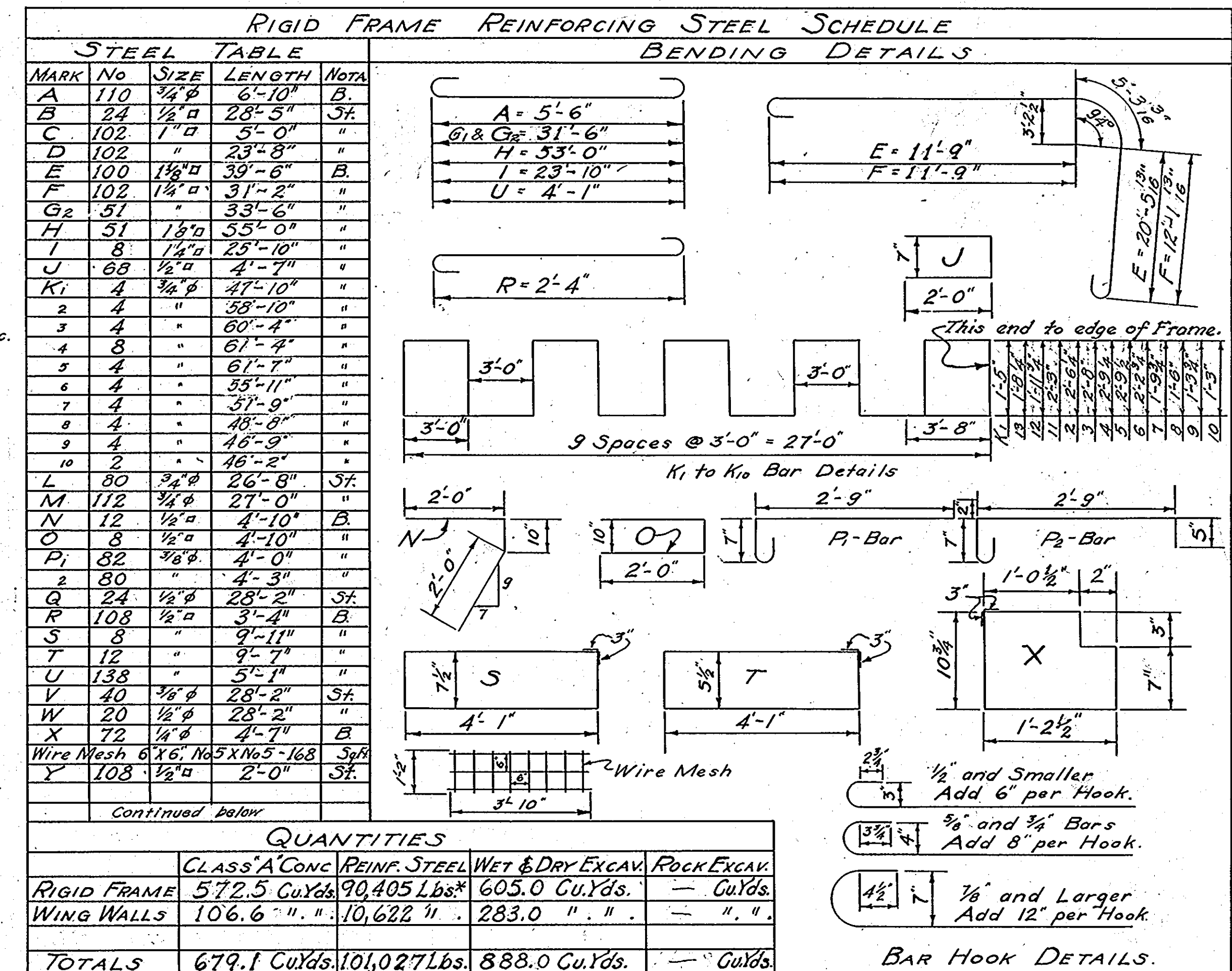
All cost of furnishing and placing all mastic filler, bituminous point, Rubber joint filler and fiber pipe to be included in the unit price bid for Class 'A' Concrete.

The tops of the precast concrete slabs are to receive the same wooden float finish as the cast in place sidewalk slab.



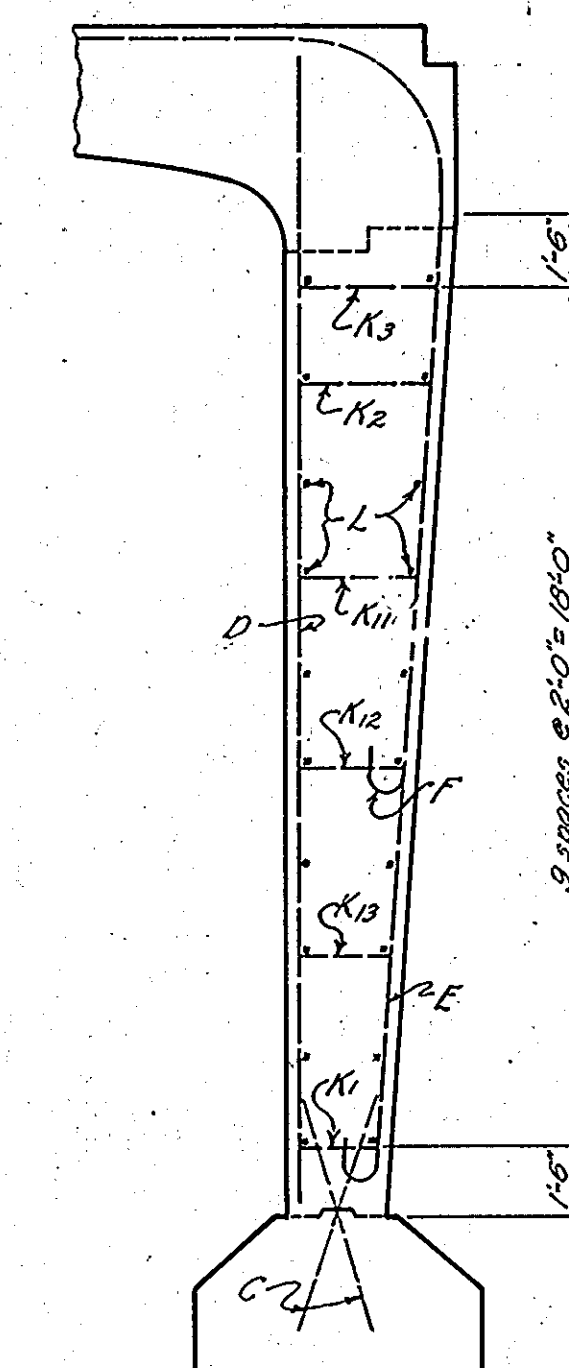
SECTION THRU HANDRAIL AND SIDEWALK.
Scale 1"=1'-0"

LOADINGS USED IN DETERMINING DIMENSIONS OF CENTRAL SECTIONS



* This figure includes 82 Lbs of Wire Mesh.

MARK	NO	SIZE	LENGTH	NOTE
G ₁	50	1/8"	33'-6"	B
K ₁₁	4	3/4"	36'-2"	"
K ₁₂	4	"	33'-5"	"
K ₁₃	4	3/4"	30'-6"	B



STEEL IN LEG OF RIGID FRAME
Scale 1/2"=1'-0"

S.C. STATE HIGHWAY DEPARTMENT
COLUMBIA, S.C.
HANDRAIL DETAILS AND
REINFORCING STEEL SCHEDULE
FOR RIGID FRAME
BRIDGE OVER C. & W. C. RY.
IN THE CITY OF GREENVILLE
W.P.G.M. PROJ. 407A. GREENVILLE CO.
17 MARCH 1937 - M^{SE} DANIEL AVE.
SCALE 1/2"=1'-0"

DESIGNED & DR. BY: F.M. JOYE 3/17/37
TRACED BY: G.K.B. 3/24/37
CHECKED BY: A.R. DICKINSON JUNE 1937
QUANTITIES BY: F.M. JOYE
" CK. BY: C.D.D. (RIGID FRAME) - W.B.R. (WING WALLS)

REVISED BY: C.D.D. 8/29/37
REVISION CHECKED BY: F.M. JOYE 8/27/37