

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
STATE JOB NO.					27

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
ADOPTED MARCH 1, 1940 WITH THE SPECIAL PROVISIONS LISTED BELOW

INDEX OF SHEETS

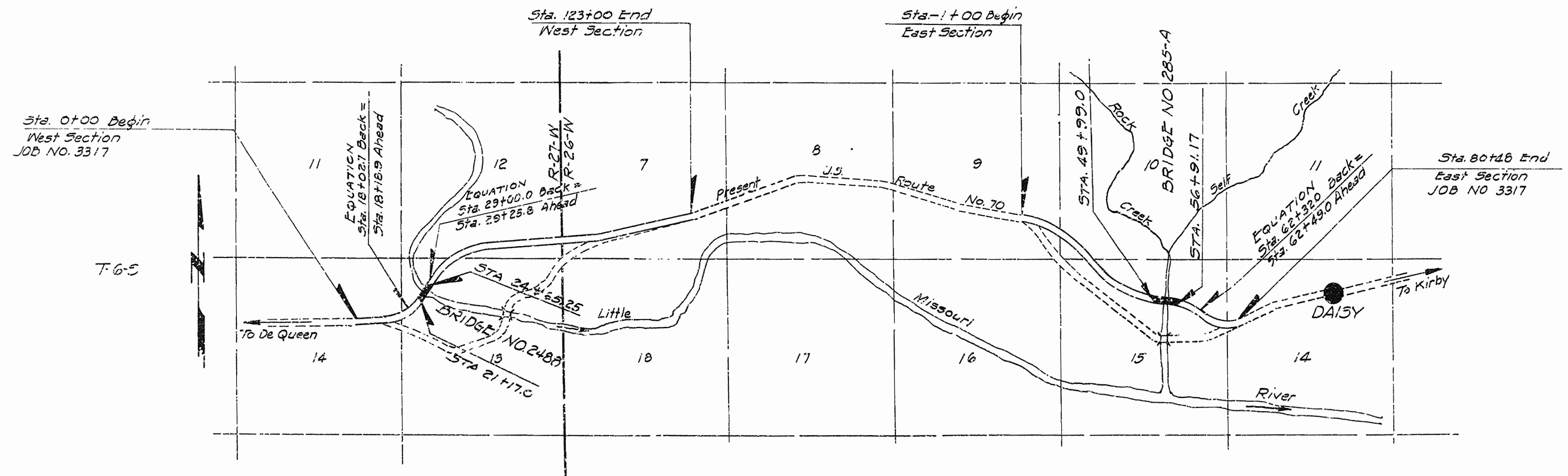
SHEET No	DRWG. No.	Title
1	6790	Title Sheet Job No. 3348
2	6791	Summary Sheet Bridge Quantities
3	6792	Layout Bridge No. 2488
4-5	6793-6794	Details of Abutment No. 1.
6-7	6795-6796	Details of Piers
8	6797	Details of Abutment No. 2
9-10	6798-6799	Details of Spans 1, 5 & 6
11-12	5247-5248	Details of Spans 2-4 Inclusive
13	6798	Layout of Bridge No. 285-A
14-15	6799-6800	Details of Abutment No. 1.
16	6801	Details of Piers 1 & 2
17	6802	Details of Pier No. 3
18	6803	Details of Abutment No. 2
19-22	6804-6807	Details of Arch Spans
23	6808	Details of 50' R.C.D.G. Spans
24	1888	Details of Backfill for Structures
25	1891	Excavation for Structures
26	2387	Details of Bridge Name Plates
27	G.2-5	Steel Plate Guard Fence
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PLAN OF PROPOSED BRIDGES
LITTLE MISSOURI RIVER & SELF CREEK
DIERKS - KIRBY ROAD
PIKE COUNTY
ROUTE 70 SEC. 4
JOB NO 3348

PAMPHLETS

DIVISION	PART
I	
II	1, 8A, 8B, 9
III	
IV	

No.	SPECIAL PROVISIONS TITLE	No. SHEETS
Job No. 3317 & 3348	Required Special Provisions	1
	Wages of Labor	1
2-1	Revision of Article 2:11	2
2-2	Equipment List Required	1
2-4	State License for Contractors	1
4-1	Revision of Article 4.9	1
Job No. 3317 & 3348	Revision of Article 7.5	1
8-3	Employment Centers for Labor	1
9-5	Partial Payments	1
803-1	Revision of Article 803.21	1
807-4	Revision of Article 807.29	1
807-5	Revision of Article 807.29(a)	1
850-1	Engineers Field Office	1
853-1	Machine Mixing	1



Revised 3-4-47 Special Provisions
Revised 7-28-48

LAYOUT
Scale: 1" = 2000'

LENGTH OF PROJECT =
LENGTH OF BRIDGES = 1040.42 FEET OR 0.197 MILES
LENGTH OF EMBANKMENT =
LENGTH OF JOB = 1040.42 FEET OR 0.197 MILES

APPROVED	[Signature]
CHIEF ENGINEER - STATE HIGHWAY COMMISSION	
APPROVED	[Signature]
CHAIRMAN - STATE HIGHWAY COMMISSION	
RECOMMENDED FOR APPROVAL	[Signature]
APPROVED	[Signature]

M. B. [Signature]
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				67
STATE JOB NO.		0			

SUMMARY OF BRIDGE QUANTITIES

ITEM NO.	ITEM	UNIT	BRIDGE NO. 2488										BRIDGE NO. 285-A							TOTALS JOB NO. 3348				
			ABUTMENT NO. 1	PIER NO. 1	PIERS NO. 2 & 3	PIER NO. 4	PIER NO. 5	ABUTMENT NO. 2	SPAN NO. 1 & 6	SPANS NO. 2 & 4	SPAN NO. 3	SPAN NO. 5	TOTALS BRIDGE NO. 2488	ABUTMENT NO. 1	ARCH ABUTMENTS 1&2 SPANS 2&3	ARCH PIERS NO. 1 & 2 SPANS 4&6	APPROACH PIER	ABUTMENT NO. 2	SPANS NO. 1, 9 & 10		SPANS NO. 3 & 7	SPAN NO. 5	TOTALS BRIDGE NO. 285-A	
103	DRY EXCAVATION FOR STRUCTURES	CU. YD.	53	53		43	96	125						370	53	160	385	68	84				750	1,120
103	WET EXCAVATION FOR STRUCTURES	CU. YD.		7	20	82	25	32						166										166
103	SOLID ROCK EXCAVATION FOR STRUCTURES	CU. YD.	15	24	64	31	21	13						168	27	130	128	34	32				351	519
SP & 802	CLASS "A" CONCRETE FOR BRIDGES	CU. YD.	44.71	64.85	168.06	73.84	64.02	82.52						498.00	69.56	157.48	913.47	57.66	738.3				1,272.00	1,770.00
SP & 802	CLASS "S" CONCRETE FOR BRIDGES	CU. YD.							62.54	143.82	48.38	38.41	293.15		141.30	221.48			222.27	701.72	612.08		1,988.85	2,282.00
SP & 803	REINFORCING STEEL	LB.	3,400	5,460	13,460	6,100	5,490	10,583	13,192	31,086	10,609	8,280	107,660	5,936	26,616	75,876	4,554	9,363	68,109	141,997	108,389		440,840	548,500
805	CONCRETE RAILING	LIN. FT.	16					16	148	336	116	90	724	16	40	40		16	300	600	400	1,412	2,136	
SP & 807	STRUCTURAL STEEL IN BEAM SPANS	LB.	520					520	43,872	150,640	54,252	27,396	277,200											277,200
SP & 807	METAL BEARING & ROADWAY EXPANSION DEVICES	LB.												490	1,960	1,950		490	5,860	7,926	6,594		25,300	25,300
909	RIP RAP	CU. YD.						200					200											200
929	BRIDGE NAME PLATES (TYPE B)	EACH	1					1					2	1				1					2	4
905	STEEL PLATE GUARD FENCE	LIN. FT.																						5,441.2

STEEL PLATE GUARD FENCE

STATION	STATION	SIDE	LIN. FT.
WEST SECTION			
16+00	19+25	LI	325
17+00	20+00	RI	300.0
24+65.25	28+00	RI/LL	669.5
73+50	84+00	LI	550.0
80+00	83+00	RI	300.0
101+00	104+00	RI	300.0
102+00	104+00	LI	200.0
SUB TOTAL			2644.5
EAST SECTION			
34+00	37+00	LI	300.0
42+00	46+50	LI	450.0
42+25	47+00	RI	475.0
49+25	49+00	LI	75.0
56+19.17	61+00	RI/LL	817.7
70+00	76+80	RI	680.0
SUB TOTAL			2796.7
TOTAL			5441.2

Revised 7-23-48

SUMMARY OF BRIDGE QUANTITIES
LITTLE MISSOURI RIVER & SELF CREEK
DIERKS - KIRBY ROAD

PIKE COUNTY
ROUTE 70 SEC. 4

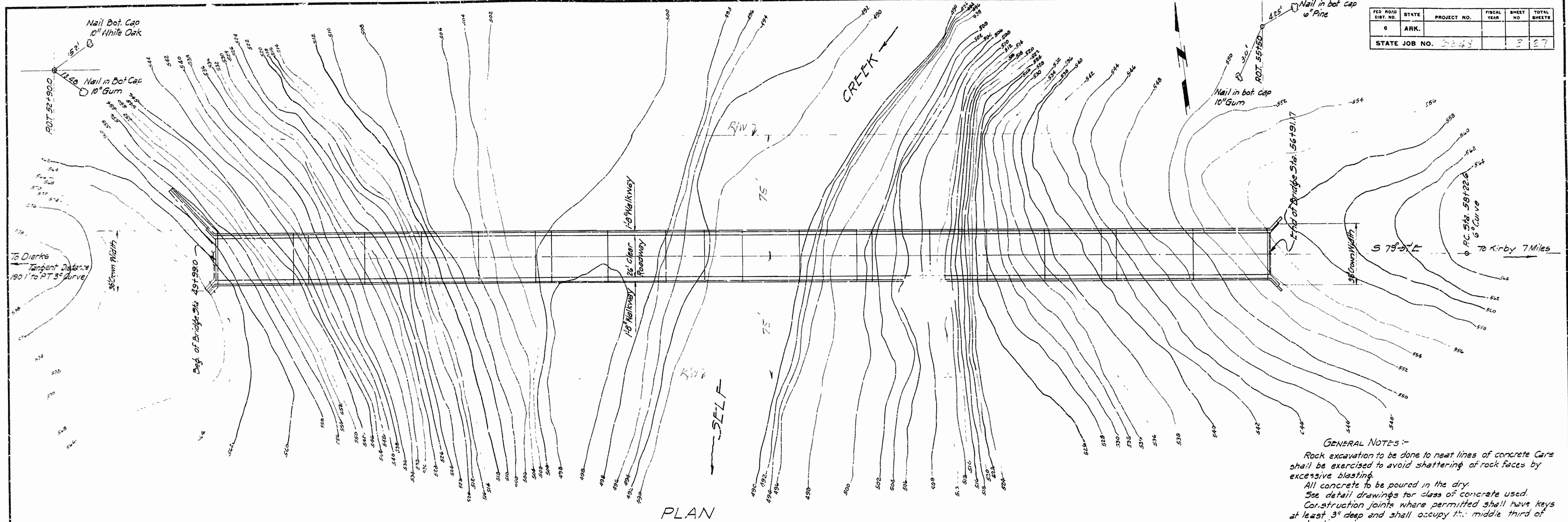
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: LPC Date: 4-22-46
Traced By: G.W.B. Date: 9-25-46
Checked By: _____ Date: _____
Scale: _____ in. = 1 ft.

BRIDGE NO. 2488 & 285-A DRAWING NO. 6791

M.B. Gann
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			27	27
STATE JOB NO. 2848					



PLAN

GENERAL NOTES:-

Rock excavation to be done to neat lines of concrete Gars shall be exercised to avoid shattering of rock faces by excessive blasting.

All concrete to be poured in the dry.

See detail drawings for class of concrete used.

Construction joints where permitted shall have keys at least 3" deep and shall occupy the middle third of each dimension.

For sequence of pouring arch spans See Drwg. 6805

For additional general notes see detail sheets.

For details of Abut. No. 1 See Drwgs. 6799 & 6800

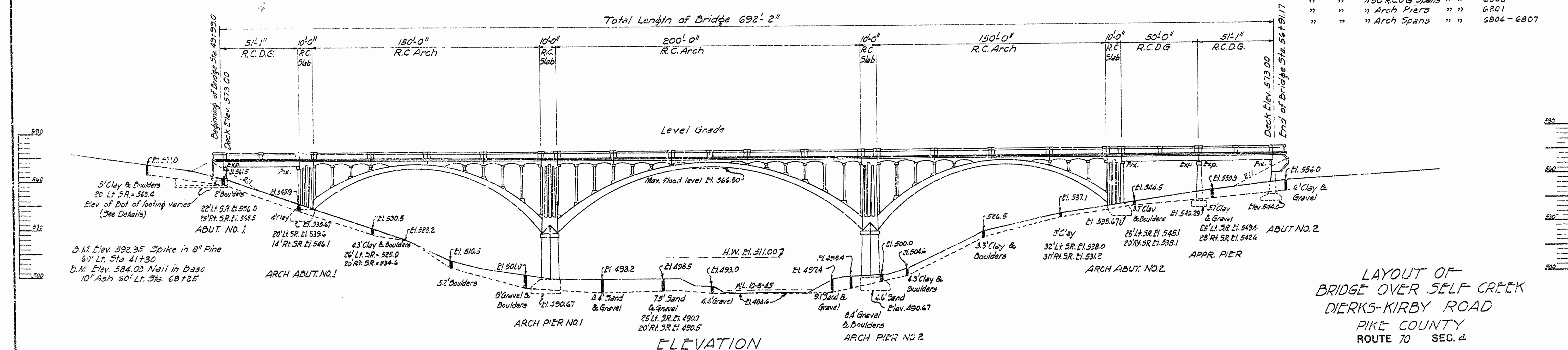
" " " Abut. No. 2 " " 6803

" " " Approach Pier " " 6802

" " " 50 R.C.D.G. Spans " " 6808

" " " Arch Piers " " 6801

" " " Arch Spans " " 6804 - 6807



ELEVATION

LAYOUT OF BRIDGE OVER SELF CREEK
DIERKS-KIRBY ROAD
PIKE COUNTY
ROUTE 70 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Drawn By: L.P.C. Date: 2-21-46
 Traced By: A.M.E. Date: 2-1-46
 Checked By: _____ Date: _____

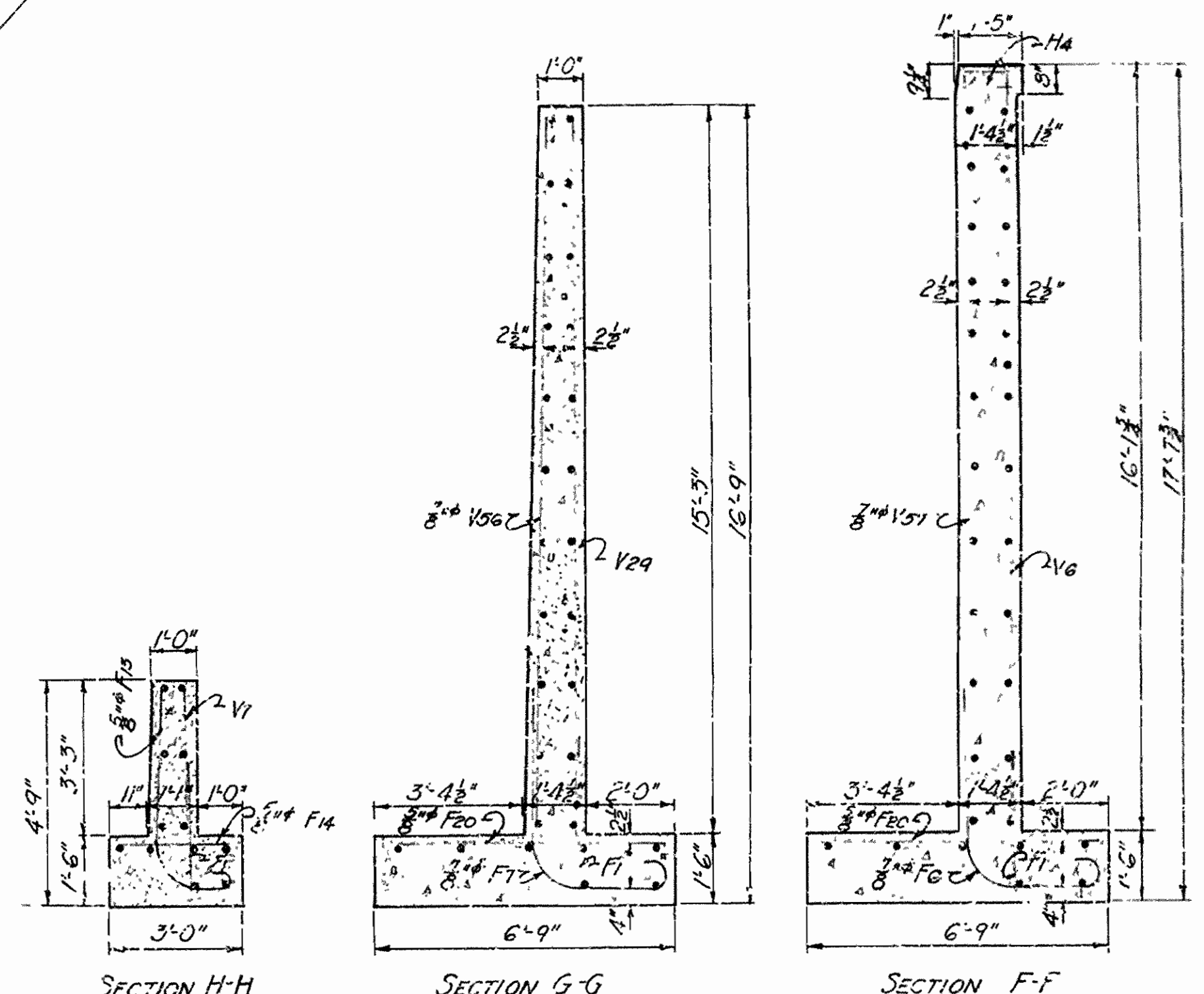
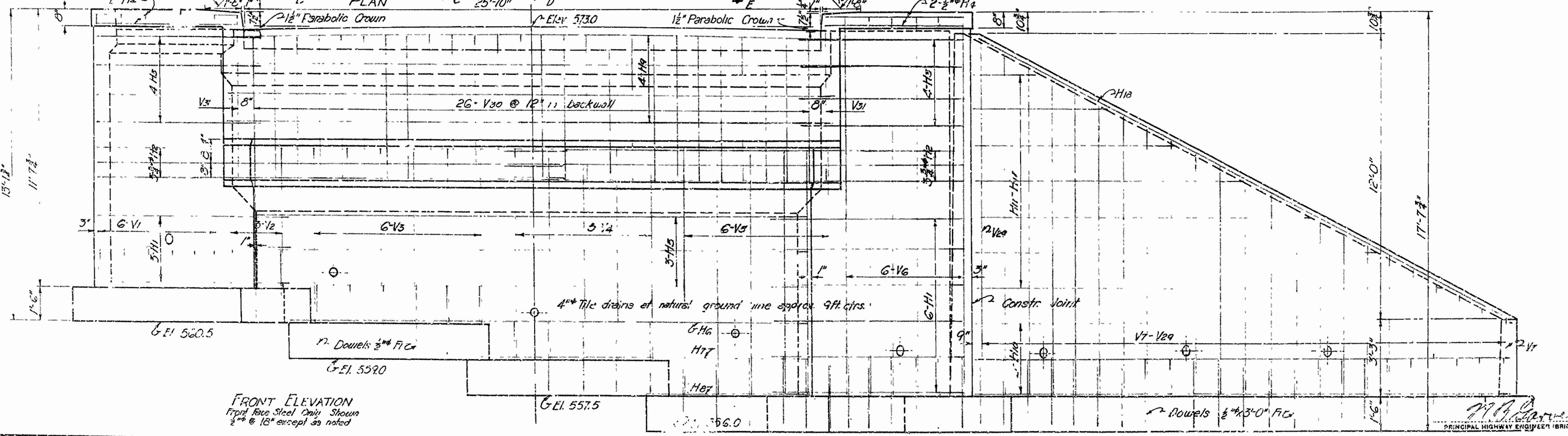
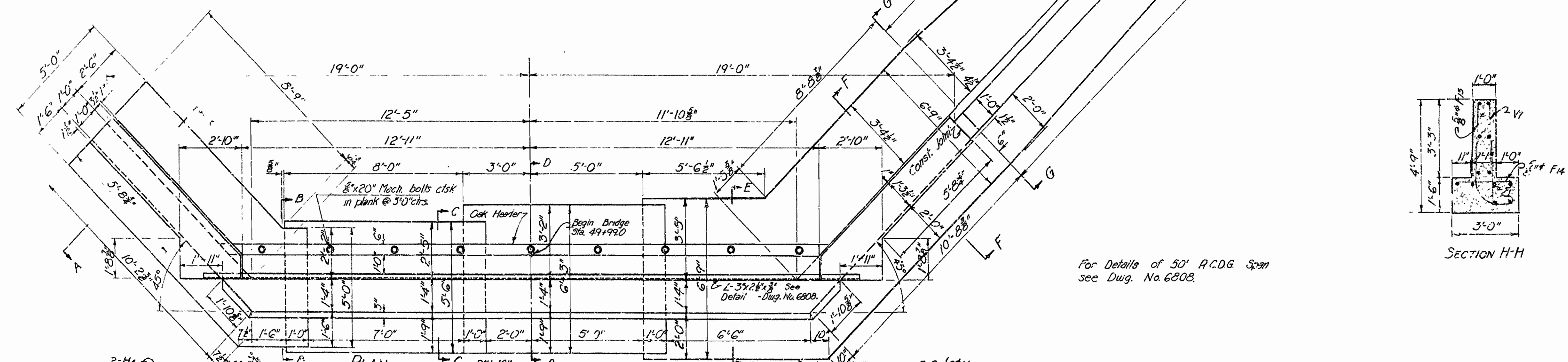
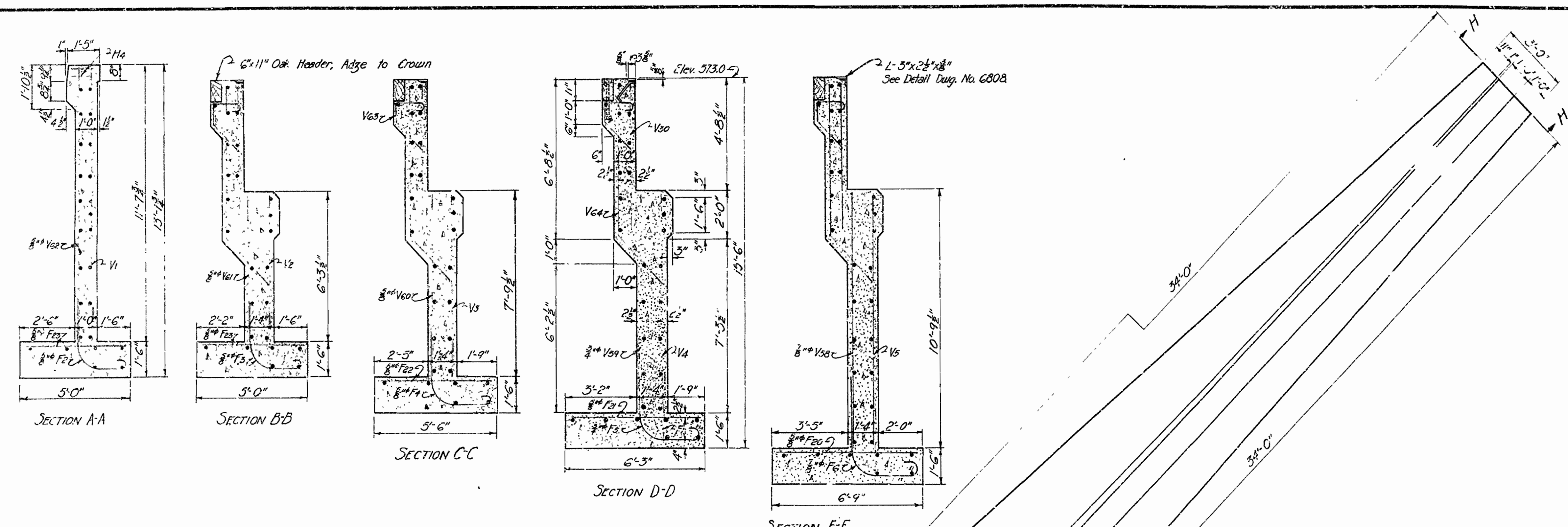
Scale: 1" = 30'

BRIDGE NO. 285-A DRAWING NO. 6798

M.O. Lewis
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			14	27

STATE JOB NO. 3342



For Details of 50' A.C.D.G. Span see Dwg. No. 6808.

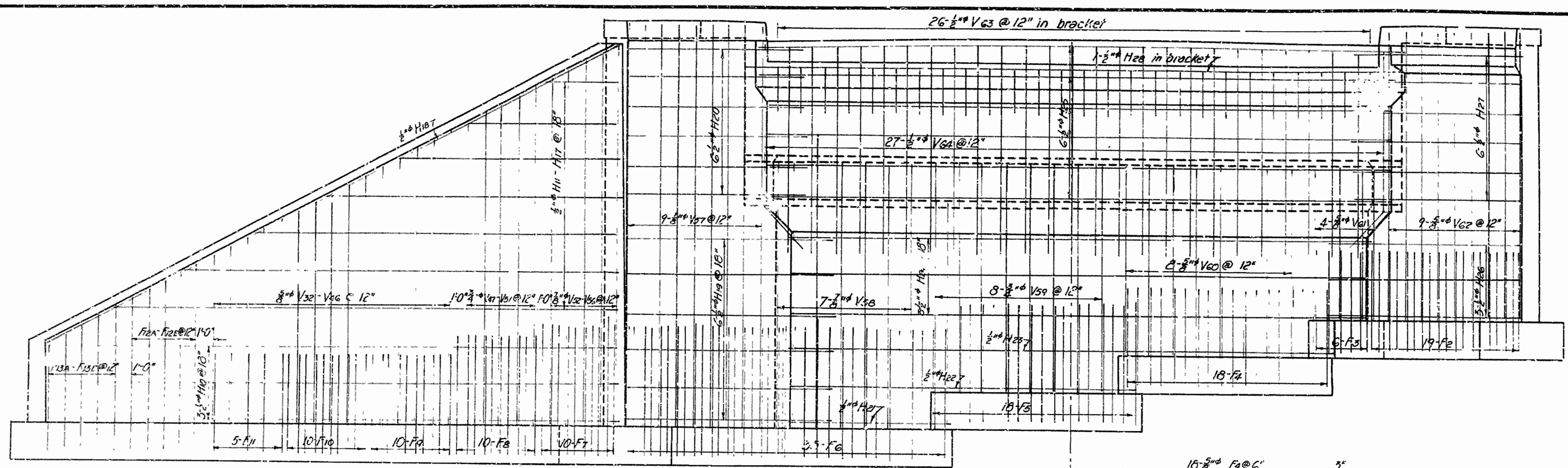
GENERAL NOTES:
 For details not shown on this sheet see dwg. no. 6800
 Volume occupied by oak header is included in quantity shown for Class 'A' concrete. Bolds for header to be paid for at unit price bid for reinforcing steel.
 All concrete to be Class 'A' and to be poured in the dry.
 All exposed corners to have 3/4" chamfer unless otherwise noted.
 Dimensions relating to reinforcing steel are to center of bars.
 Bar lists and bending diagrams must be submitted and approval secured before fabrication is begun.
 SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1, 1940.

DETAILS OF ABUTMENT NO. 1
 BRIDGE OVER SELF CREEK
 DIERKS-KIRBY ROAD
 PIKE COUNTY
 ROUTE 70 SEC. 4
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.C.C. Date: 2-7-48
 Traced By: G.W.B. Date: 2-7-48
 Checked By: _____ Date: _____
 BRIDGE NO. 285-A DRAWING NO. 8799

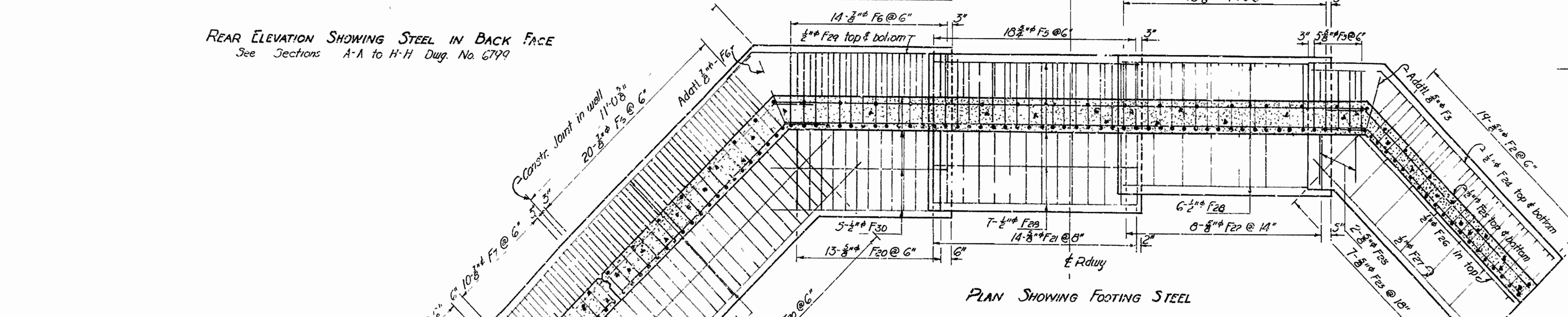
FRONT ELEVATION
 Front Face Steel Only Shown
 3/8" @ 16" except as noted

Scale: 3/8" in. = 1'-0" ft.
 M.A. BROWN
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			27	
STATE JOB NO. 3348					



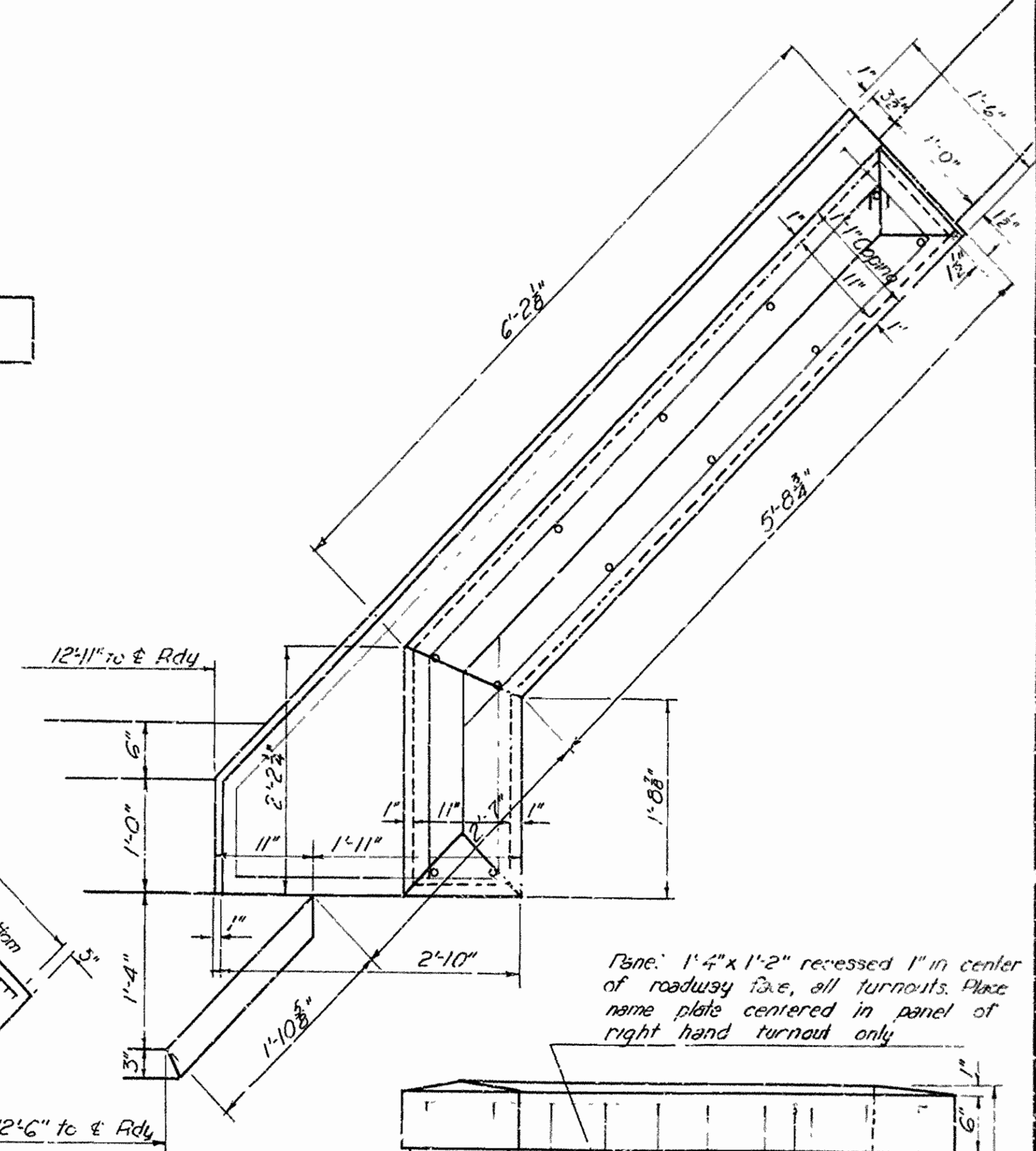
REAR ELEVATION SHOWING STEEL IN BACK FACE
See Sections A-A to H-H Dwg. No. 6799



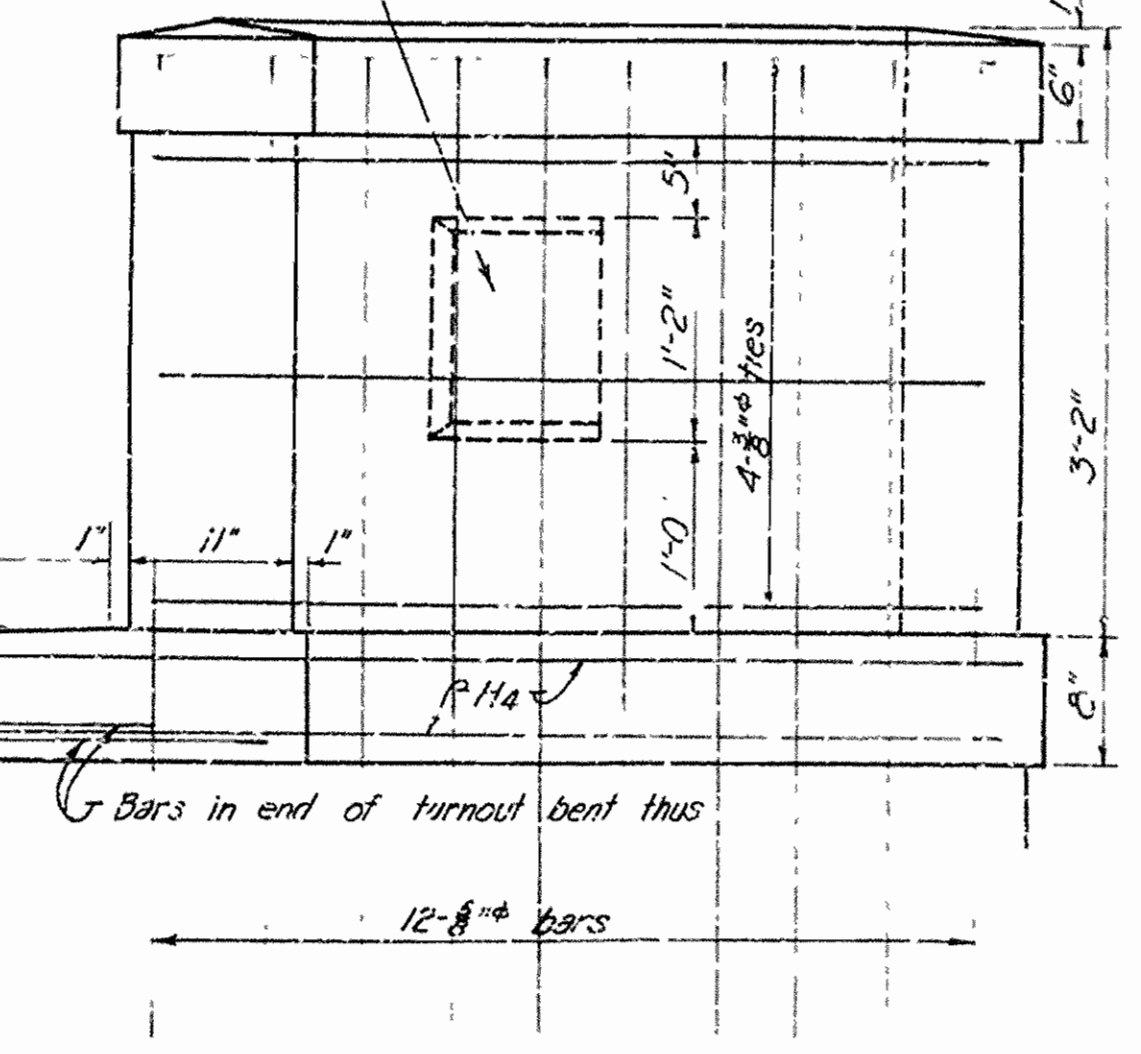
PLAN SHOWING FOOTING STEEL

LIST OF BENT BARS

Mark	Size	Length	A	B	C	Diagrams
F2	3/8"	6'-5"	2'-11"	3'-11"	6"	
F3	3/8"	6'-9"	2'-5"	3'-11"	6"	
F4	3/8"	7'-0"	2'-8"	3'-11"	6"	
F5	3/8"	7'-9"	2'-8"	4'-8"	6"	
F6	3/8"	8'-9"	2'-11"	5'-2"	8"	
F7	3/8"	8'-8"	2'-17"	5'-2"	8"	
F8	3/8"	7'-9"	2'-8"	4'-8"	6"	
F9	3/8"	6'-10"	2'-6"	3'-11"	6"	
F10	3/8"	6'-7"	2'-3"	3'-11"	6"	
F11	3/8"	6'-5"	2'-1"	3'-11"	6"	
F12A to F12E	3/8"	Ave. 9'-1"	1'-1"	Varies 5'-7" to 5'-3"	6"	
F13A to F13E	3/8"	Ave. 7'-2 1/2"	1'-9"	Varies 4'-4" to 5'-9"	6"	
F24	1/2"	13'-4"	10'-6"	2'-10"		
F25	1/2"	12'-5"	10'-0"	2'-3"		
F26	1/2"	11'-5"	9'-7"	1'-10"		
F29	1/2"	9'-8"	8'-0"	1'-8"		
H1	1/2"	11'-7"	9'-11"	1'-8"		
H2	3/8"	23'-6"	13'-7"	9'-11"		
H3	1/2"	9'-8"	8'-0"	1'-8"		
H4	3/8"	11'-3"	9'-7"	1'-8"		
H20	1/2"	9'-10"	8'-2"	1'-8"		
H26	1/2"	10'-11"	9'-3"	1'-8"		
H27	1/2"	9'-6"	7'-10"	1'-8"		
V64	1/2"	9'-0"	6'-5"	2'-7"		
H4	3/8"	20'-6"				
V63	1/2"	3'-9"				



TURNOUT DETAILS
Scale 1"=1'-0"



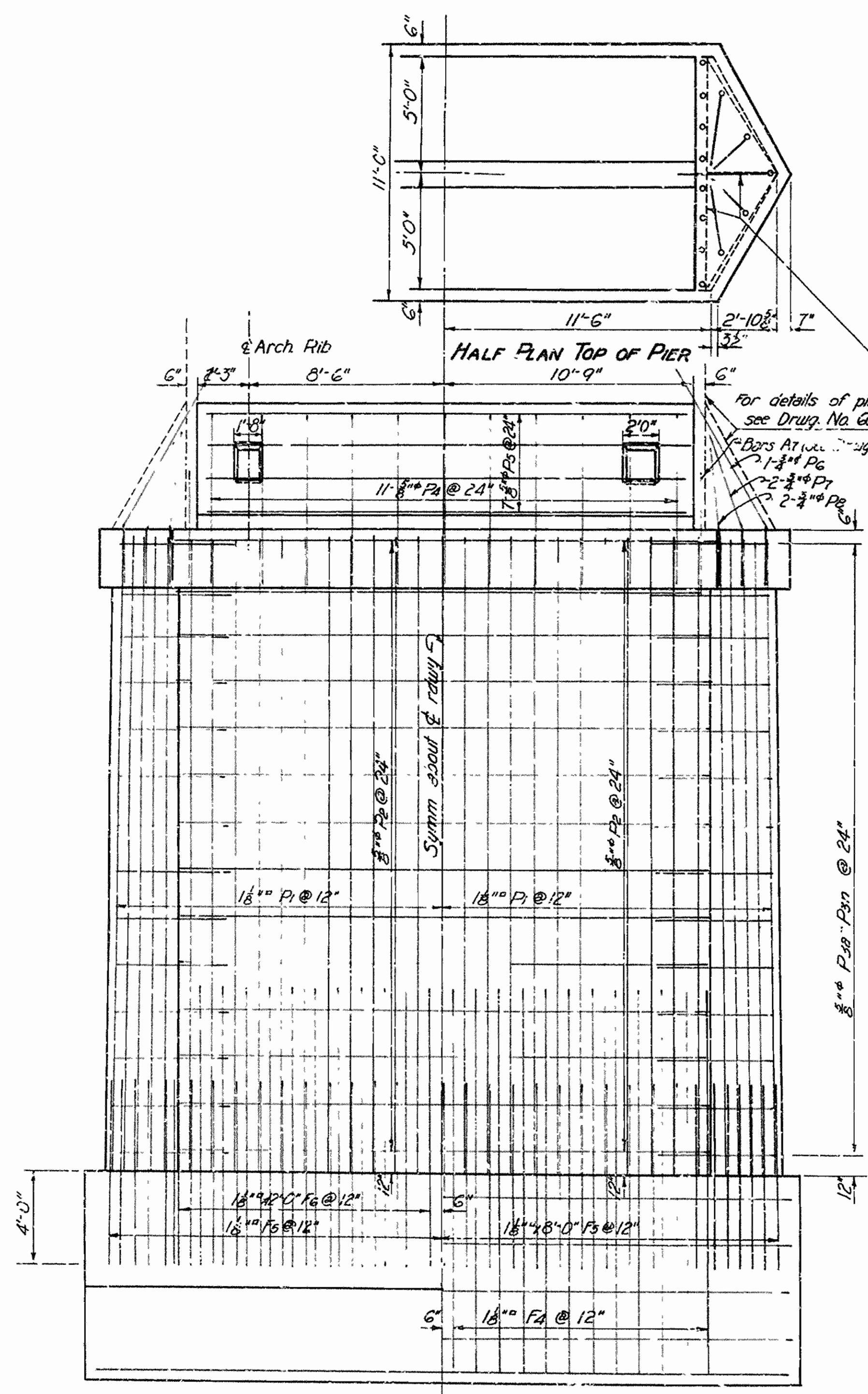
DETAILS OF ABUTMENT NO. 1
BRIDGE OVER SELF CREEK
DIERKS-KIRBY ROAD
PIKE COUNTY
ROUTE 70 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Scale: 3/8" = 1 ft.
DRAWING NO. 6800

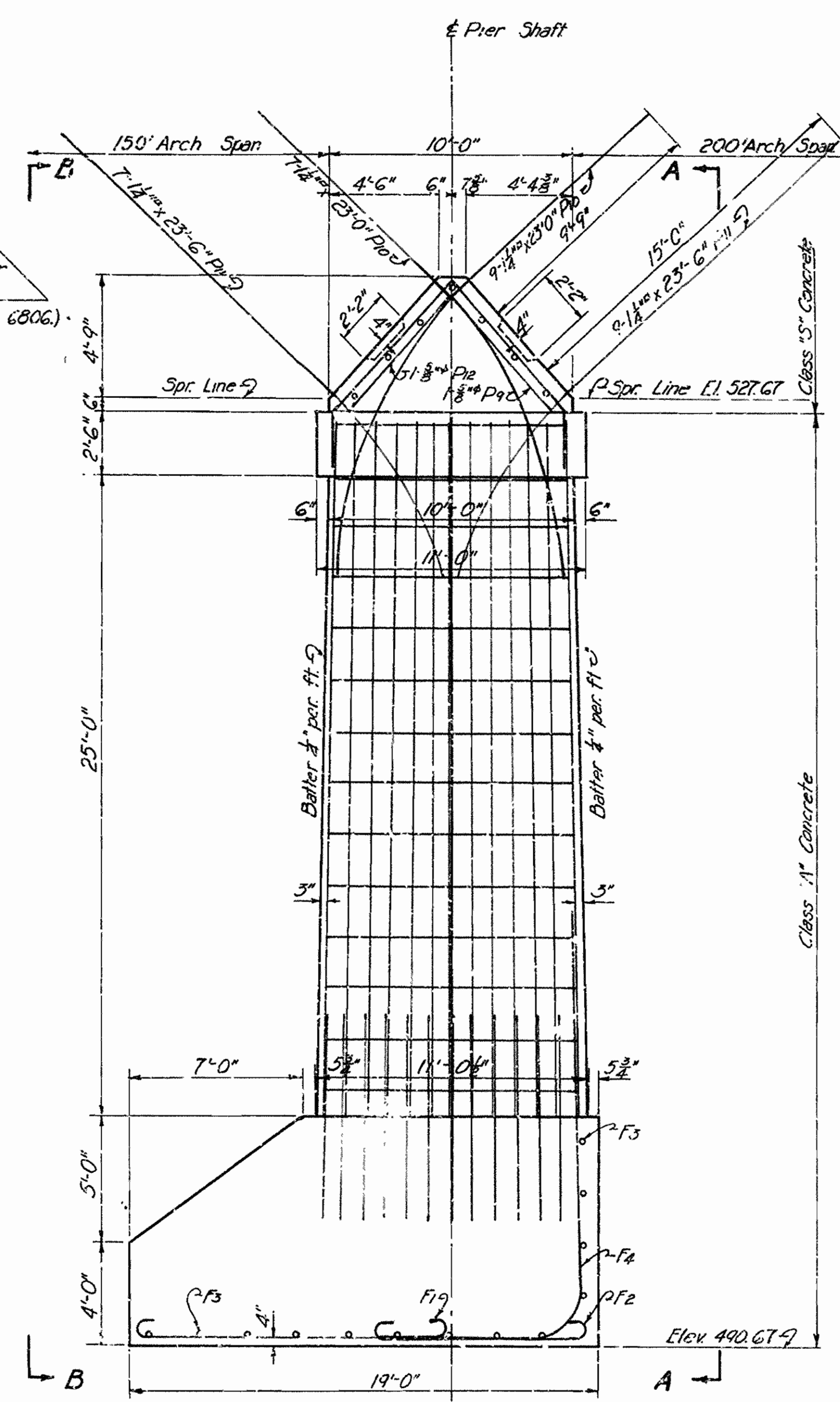
For details not shown see Dwg. No. 6799

M. B. Garner
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

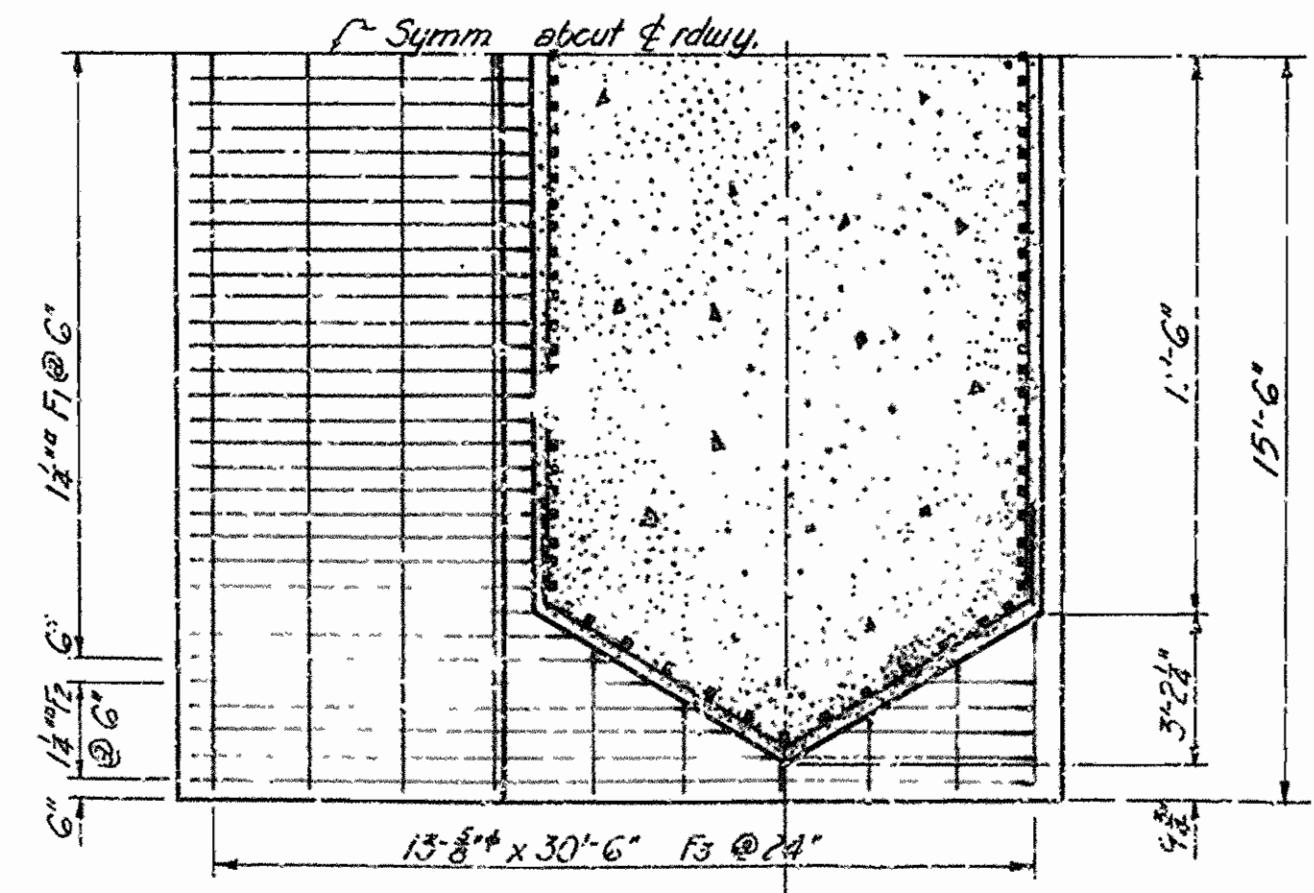
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			27	
STATE JOB NO. 3348					27



HALF PLAN TOP OF PIER
HALF ELEVATION B-B



END ELEVATION ARCH PIER



HALF PLAN ARCH PIER

BENT BAR LIST

Mark	Size	Length	A	B	C	Diagram
F1	1 1/2"	14'-6"	12'-6"			
F2	1 1/2"	20'-6"	18'-6"			
F3	1 1/2"	25'-6"				
P3a	5/8"	Varies Ave 15'-10"	2'-1"	Varies 2'-9"	Varies 5'-6"	
P3b	5/8"	18'-1"	2'-1"	5'-1"	6'-11 1/2"	
P6	3/4"	10'-6"	8'-0"	2'-6"	1'-6"	
P7	3/4"	7'-0"	4'-6"	2'-6"	1'-3"	
P8	3/4"	7'-3"	4'-9"	2'-6"	2'-2"	
P9	5/8"	21'-5"	4'-2"	6'-2"		
P10	1 1/2"	23'-0"	9'-9"	13'-3"		
F11	1 1/2"	23'-6"	15'-0"	8'-6"		
F12	5/8"	19'-5"	3'-2"	6'-2"		

Note: These are not abutment piers. See general notes for pouring rings Drawg. No. 6805
Maximum: Density on Testing 20,000 per sq. ft.

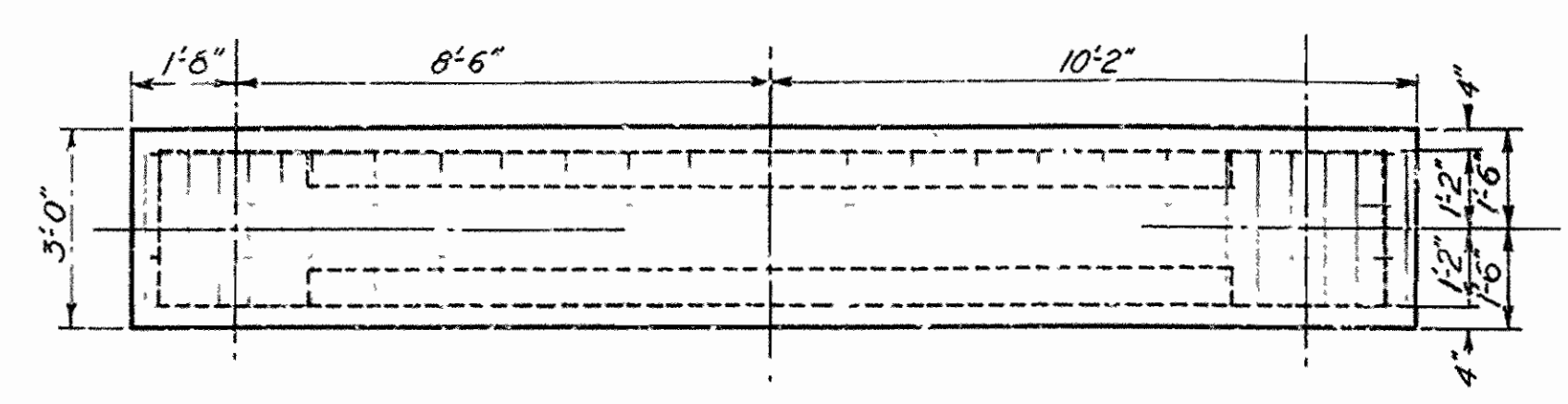
DETAILS OF PIERS NO. 1 & 2
BRIDGE OVER SELF CREEK
DIERKS-KIRBY ROAD
PIKE COUNTY
ROUTE 70 SEC. 4
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: LEC Date: 2-15-46
 Traced By: SHB Date: 3-6-46
 Checked By: _____ Date: _____
BRIDGE NO. 285-A DRAWING NO. 6801

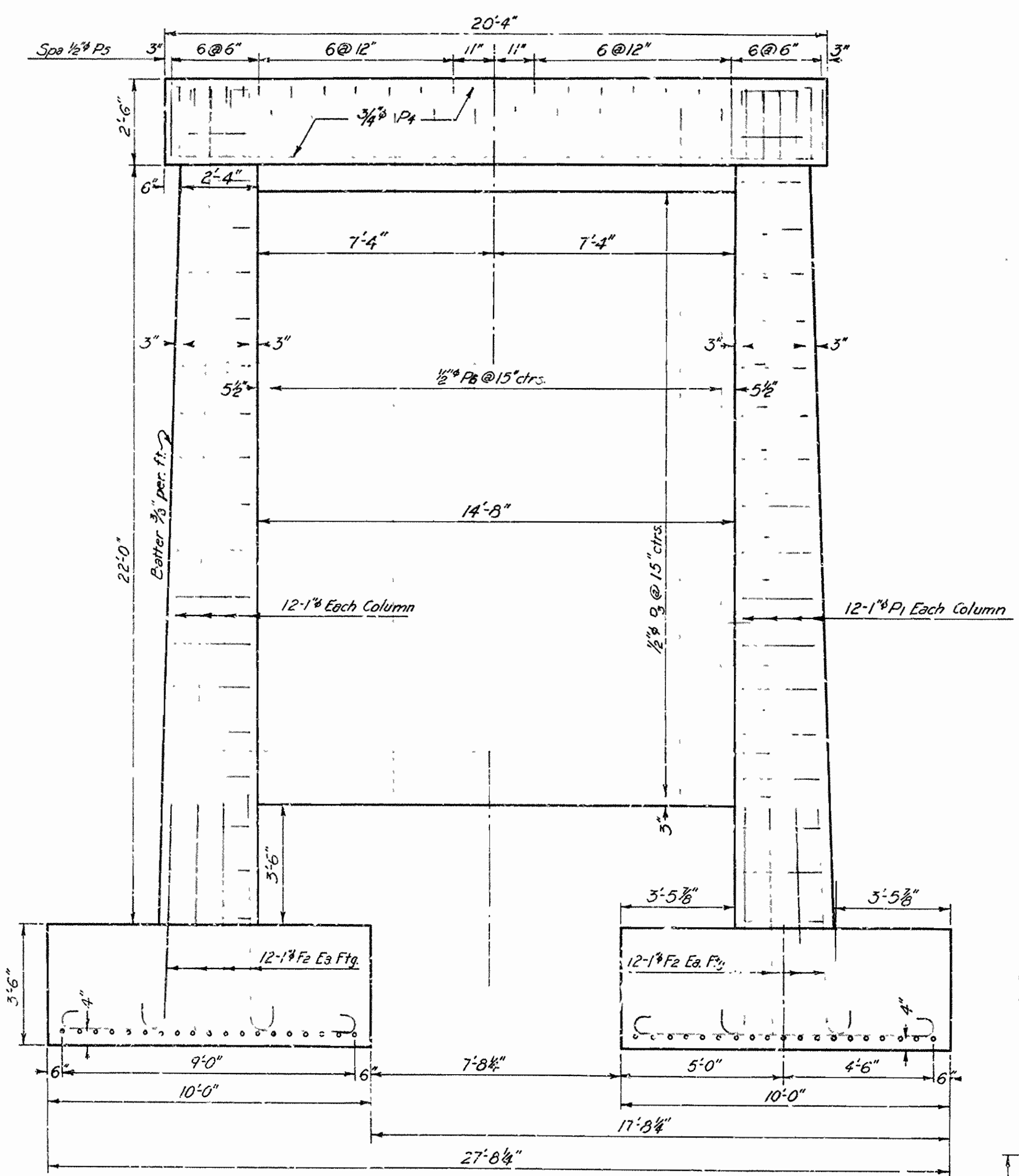
Scale: 1/2" = 1'

M. L. GIVENS
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

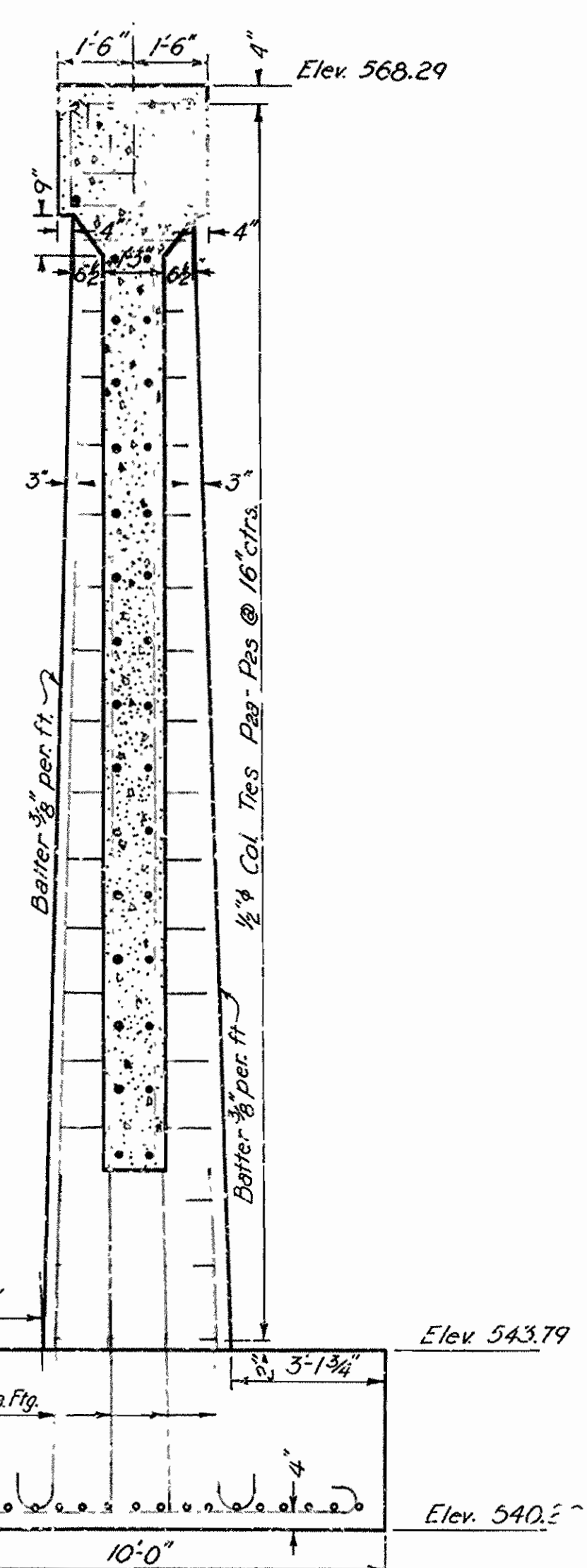
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
0	ARK.			7	27
STATE JOB NO. 3342					



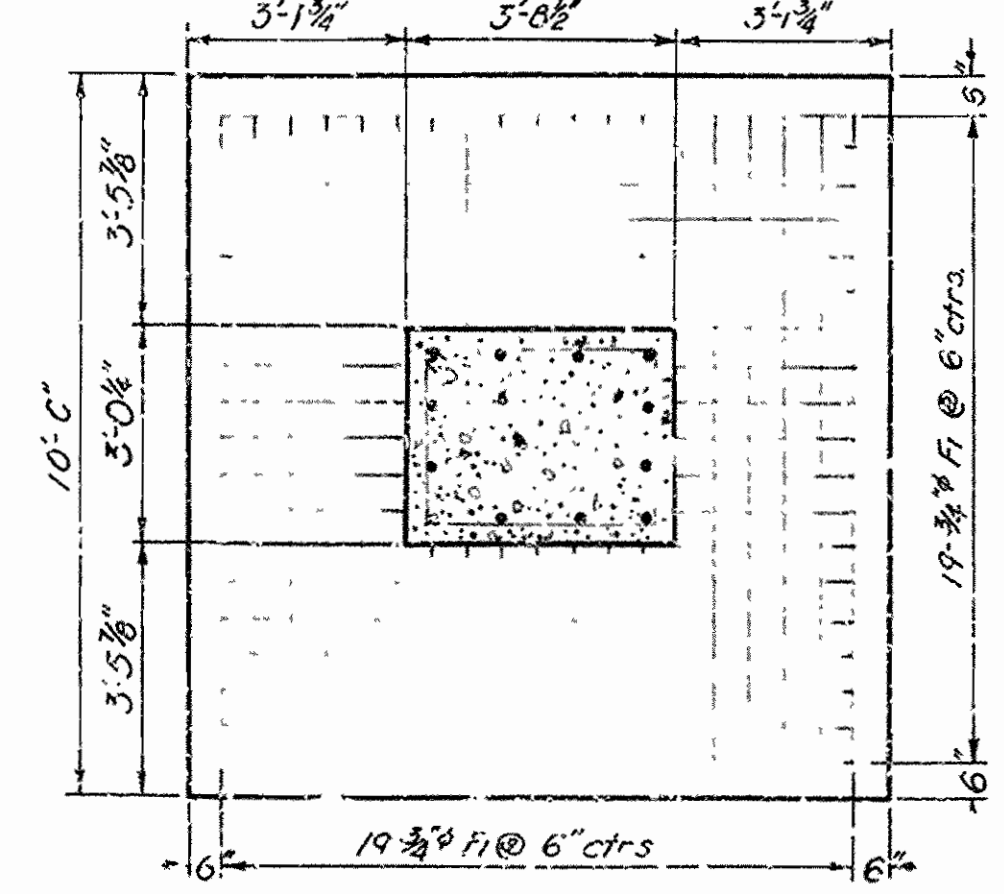
PLAN OF CAP



ELEVATION OF PIER



SECTION ON C OF PIER



HALF FOOTING PLAN

BENT BARS IN PIER & FOOTING

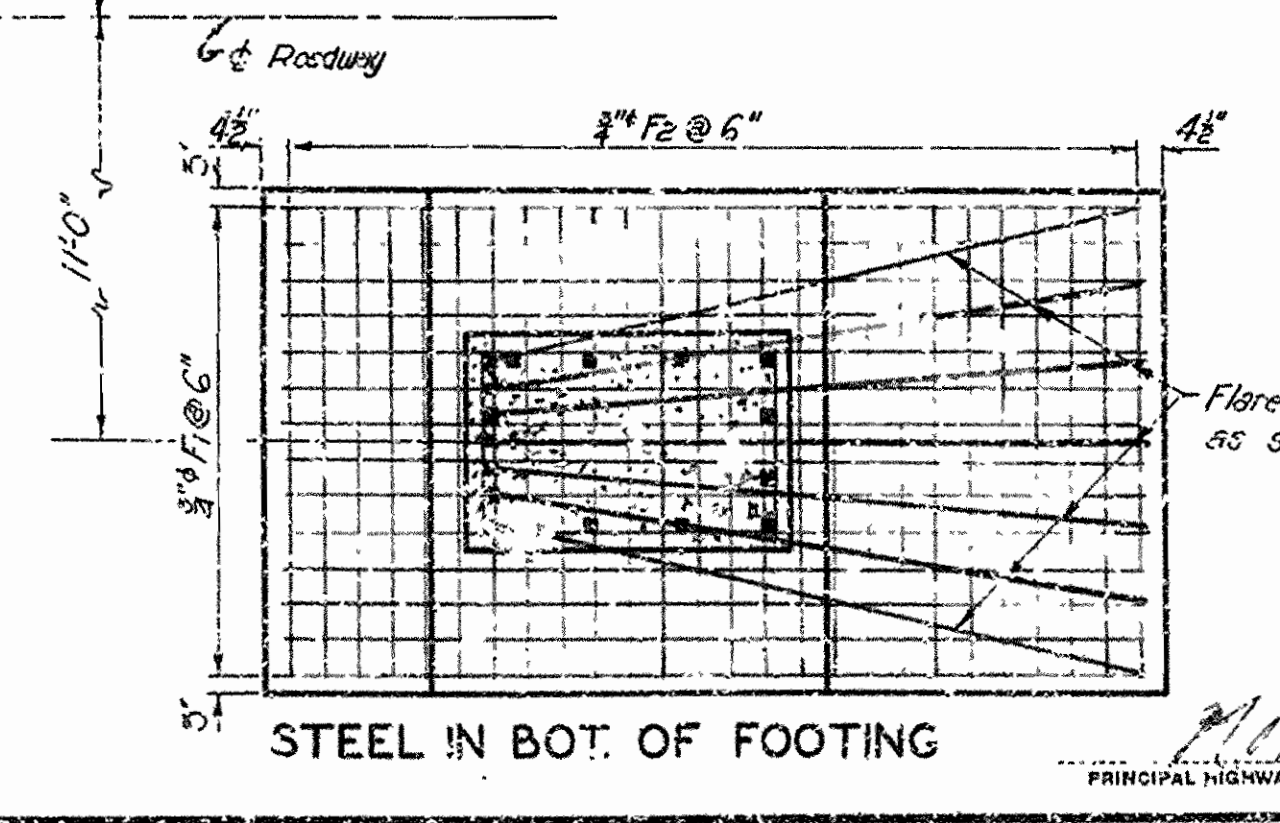
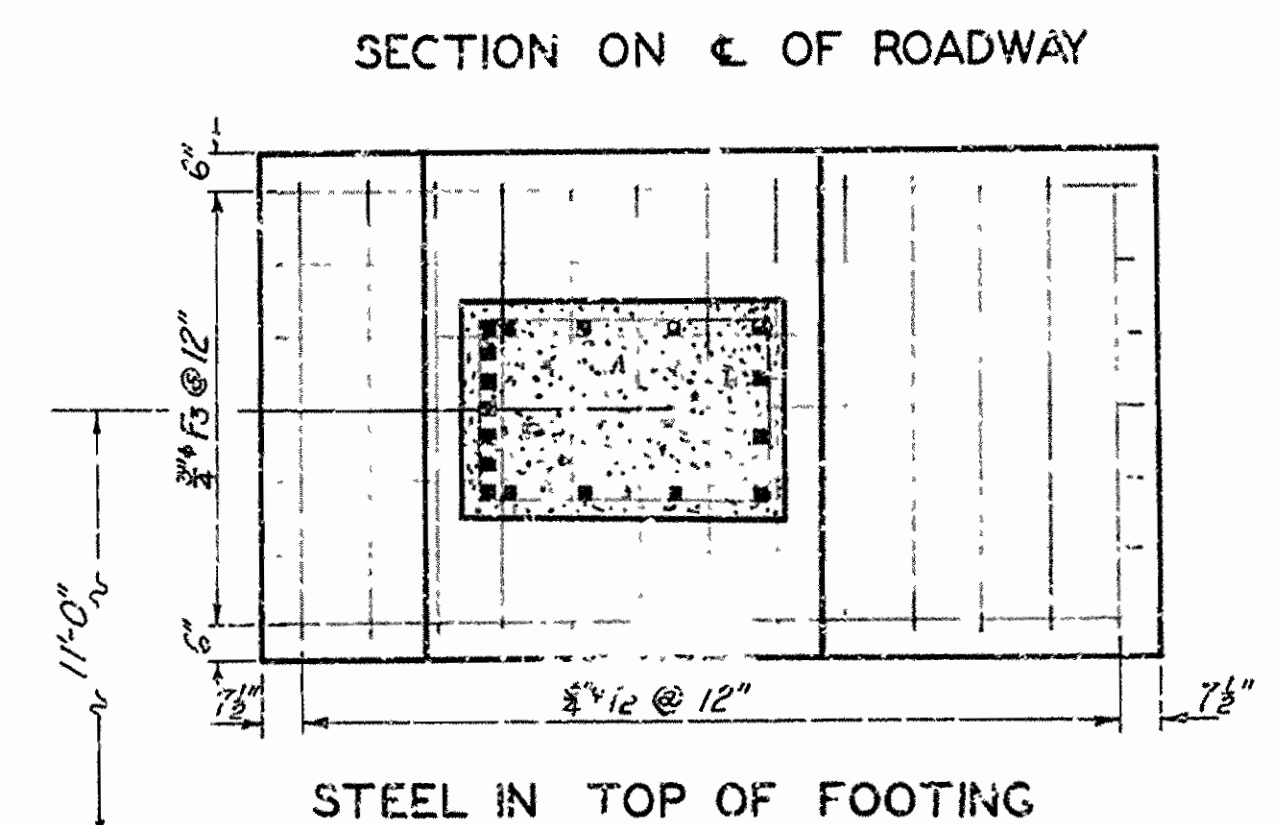
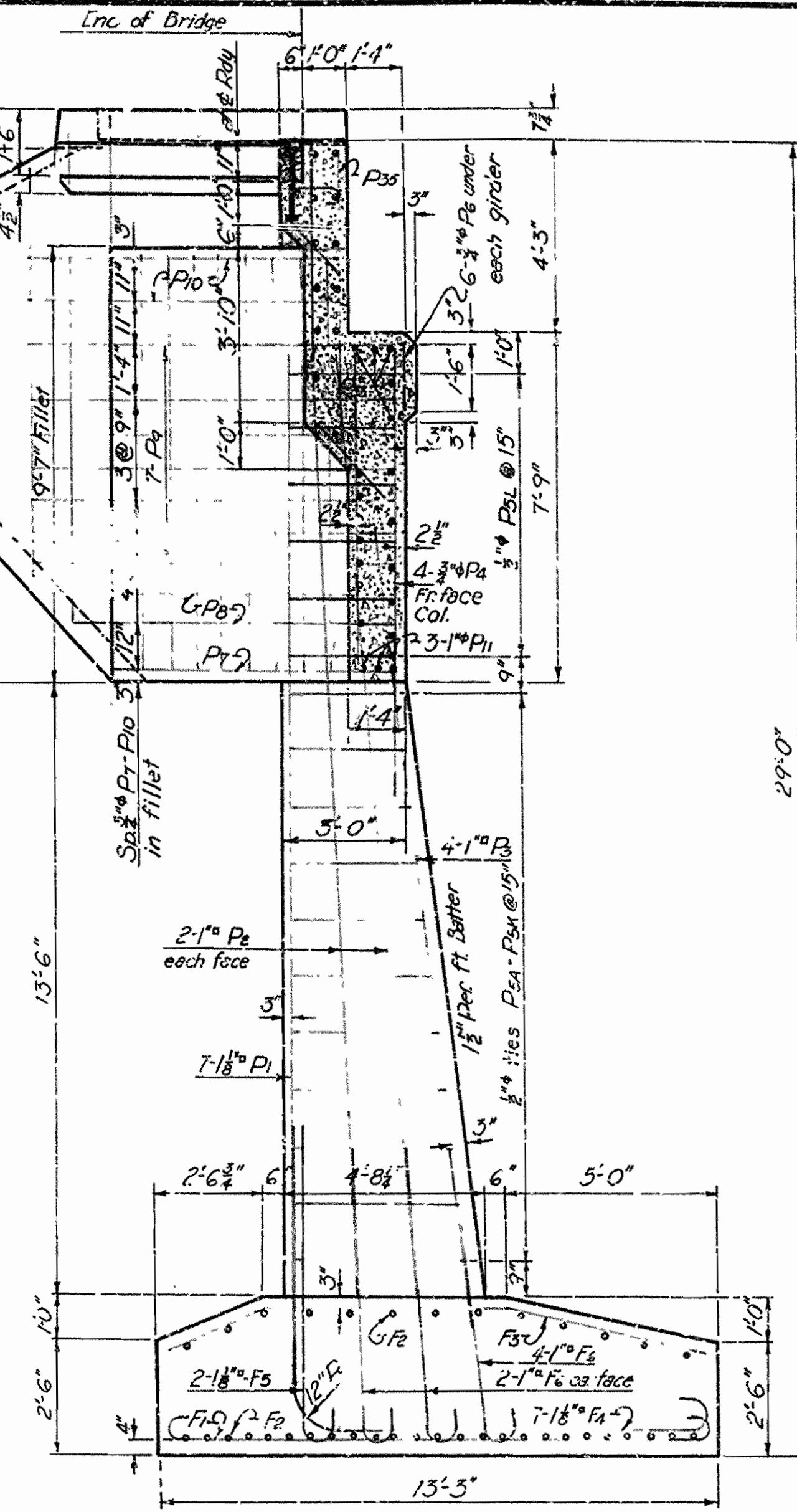
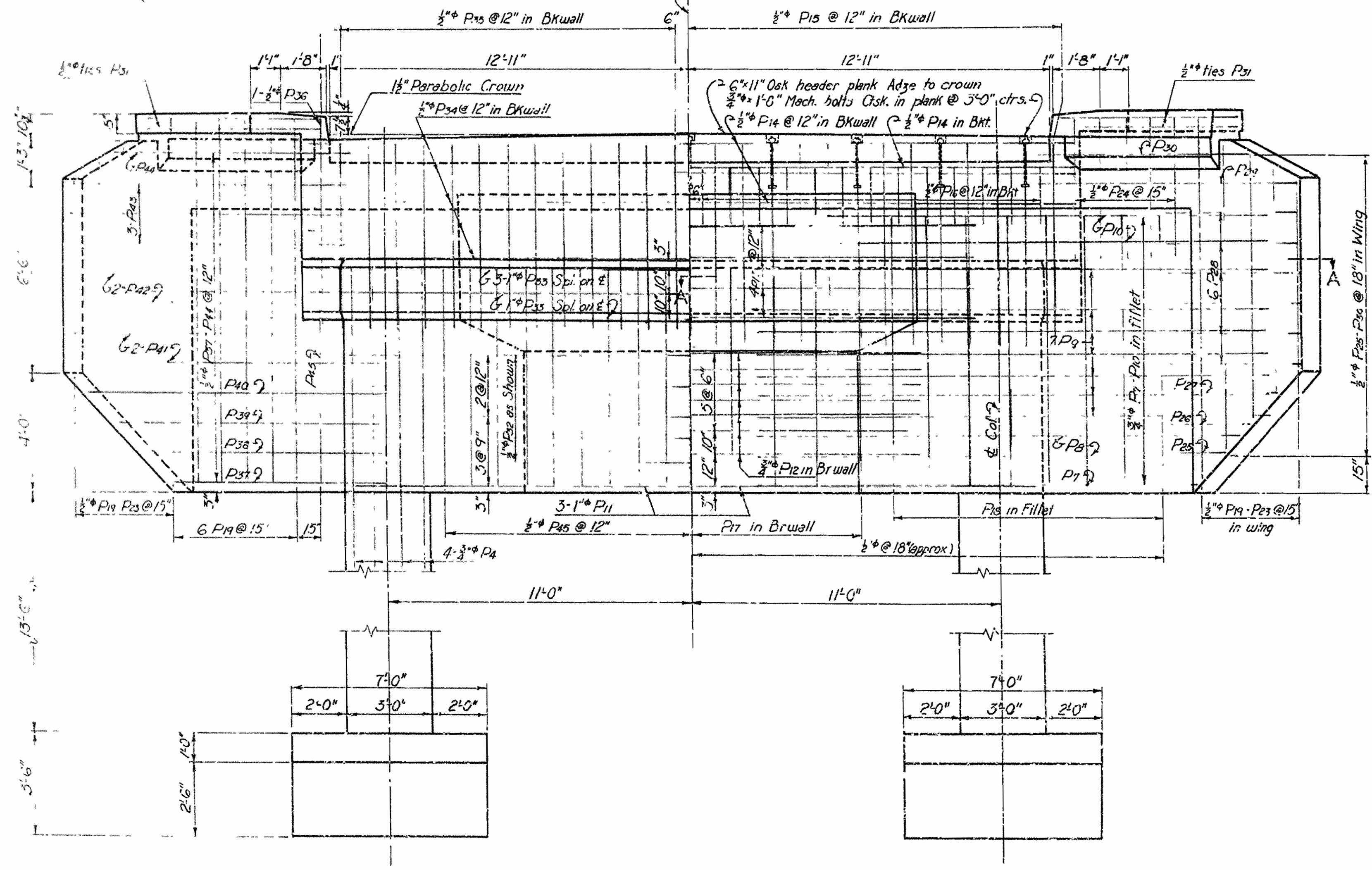
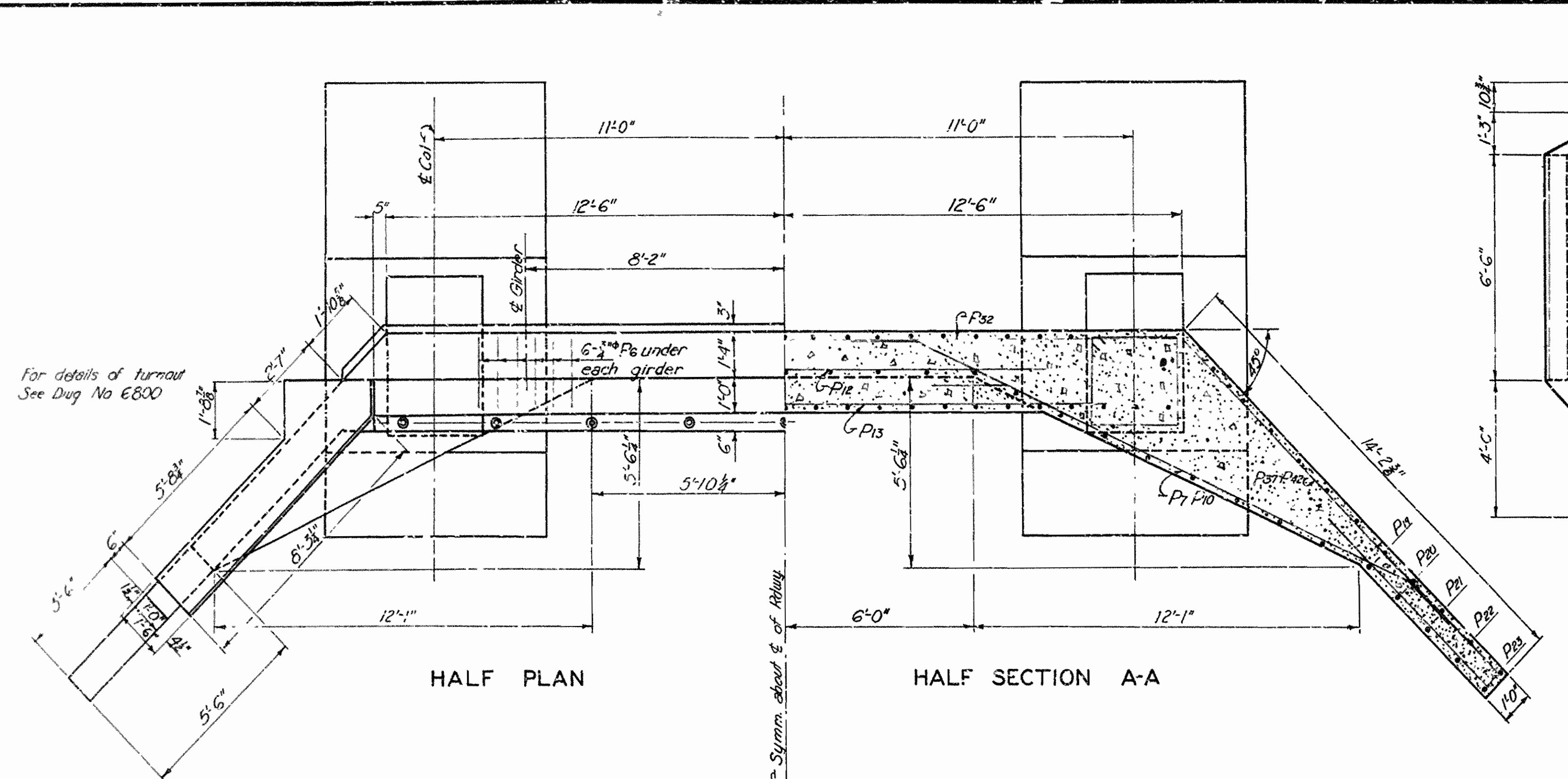
Mark	Size	Length	A	B	Diagram
F1	3/4"	10'-6"	9'-0"	6"	
F2	1"	7'-8"	6'-8"	8"	
P2a - P2b	1/2"	Ax. 10'-5 1/2"	1'-9 3/8"	1'-10 3/8"	
P3	1/2"	10'-3"	2'-7 1/2"	2'-1 1/2"	

DETAILS OF PIER AND FOOTING
BRIDGE OVER SELF CREEK
ROUTE 70 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: G.L.A. Date: 2-2-46
Traced By: G.W.B. Date: 2-7-46
Checked By: _____ Date: _____
Scale: 3/8 in. = 1 ft.
BRIDGE NO. 285-A DRAWING NO. 6802

M.A. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGES)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	ARK.			27	
STATE JOB NO. 3348					



LIST OF BENT BARS

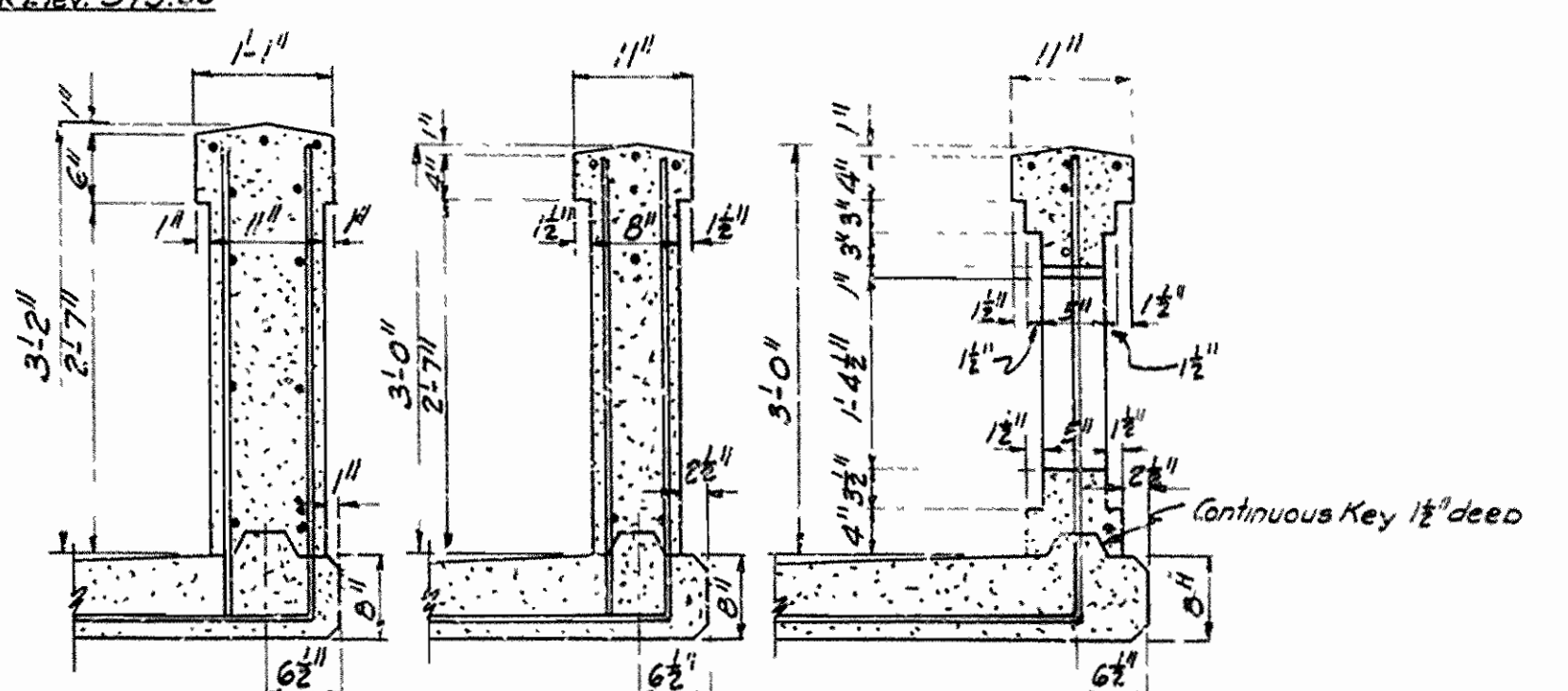
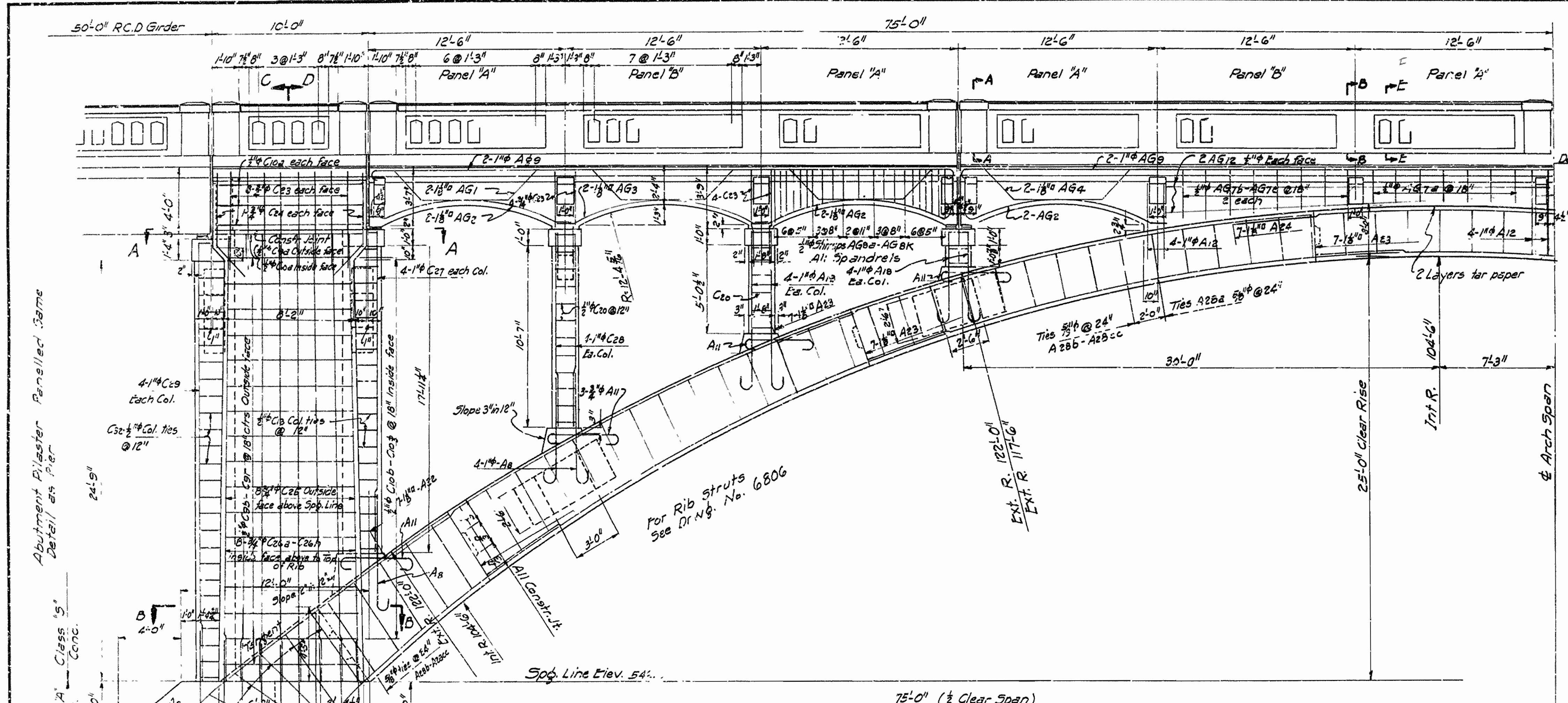
Mark	Size	Length	A	B	C	D	E	Diagram
F1	3/4"	14'-3"	12'-9"	6"				Diagram A
F3	3/4"	12'-11"	2'-5"	5'-8"	4'-0"	4 1/2"	2 1/2"	Diagram B
F4	1/2"	16'-11"	9'-8"	6'-9"	8"			Diagram C
F5	1/2"	7'-11"	6'-11"	8"				Diagram D
F6	1/2"	7'-6"	6'-6"	8"				Diagram E
P3A	1/2"	12'-10 1/2"	2'-7 1/2"	4'-2 3/4"				Diagram F
P3X	1/2"	Av.	2'-7 1/2"	2'-7 1/2"				Diagram G
P3L	1/2"	11'-3"	2'-7 1/2"	2'-7 1/2"				Diagram H
F6	1/2"	5'-6"	2'-0"	1'-9"				Diagram I
P7	3/8"	17'-3"	15'-3"	2'-0"		5 1/2"		Diagram J
P8	3/8"	19'-0"	17'-0"	2'-0"		5 1/2"		Diagram K
P9	3/8"	21'-0"	2'-0"	17'-0"	2'-0"	5 1/2"	4 1/2"	Diagram L
P10	3/8"	18'-0"	2'-0"	14'-0"	2'-0"	5 1/2"	4 1/2"	Diagram M
P15	1/2"	8'-6"	6'-0"	2'-6"		12"		Diagram N
P16	1/2"	3'-9"	1'-6"	9"		12"		Diagram O
P31	1/2"	20'-6"						Diagram P
P33	1"	23'-9"	13'-9"	10'-0"		12"		Diagram Q
P37	1/2"	10'-8"	8'-8"	2'-0"		12"		Diagram R
P38	1/2"	12'-0"	10'-0"	2'-0"		12"		Diagram S
P39	1/2"	13'-5"	11'-5"	2'-0"		12"		Diagram T
P40	1/2"	14'-9"	12'-9"	2'-0"		12"		Diagram U
P41	1/2"	15'-11"	13'-11"	2'-0"		12"		Diagram V
P43	1/2"	14'-0"	12'-0"	2'-0"		12"		Diagram W
P44	1/2"	11'-9"	9'-9"	2'-0"		12"		Diagram X

GENERAL NOTES

All Concrete to be Class "A"
 All Concrete to be poured in the dry.
 All exposed corners to have 3/4" Quarter unless otherwise noted.
 Volume occupied by oak header plank is included in the quantity shown for Class "A" concrete.
 Dimensions relating to reinforcing steel are to center of bars.
 Bolts for oak header are to be paid for at the unit price bid for "Reinforcing Steel".
 Bar lists and bending diagrams must be submitted and approval secured before fabrication is begun.
 SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1st 1940.

DETAILS OF ABUTMENT NO. 2
 BRIDGE OVER SELF CREEK
 DIERKS-KIRBY ROAD
 PIKE COUNTY
 ROUTE 70 SEC 4
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: GMB Date: 2-21-46
 Traced By: GMB Date: 2-21-46
 Checked By: Date: _____
 Scale: 3/8" = 1'-0"
 BRIDGE NO. 285-A DRAWING NO. 6303

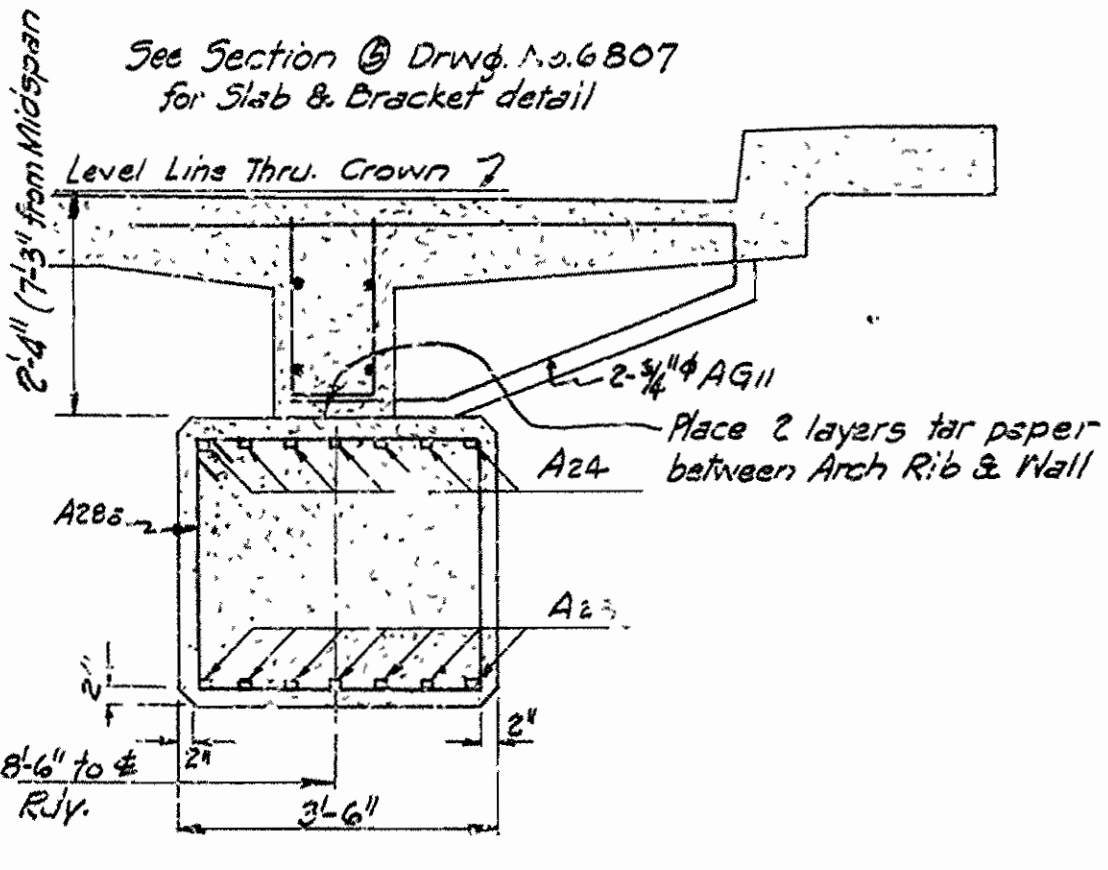
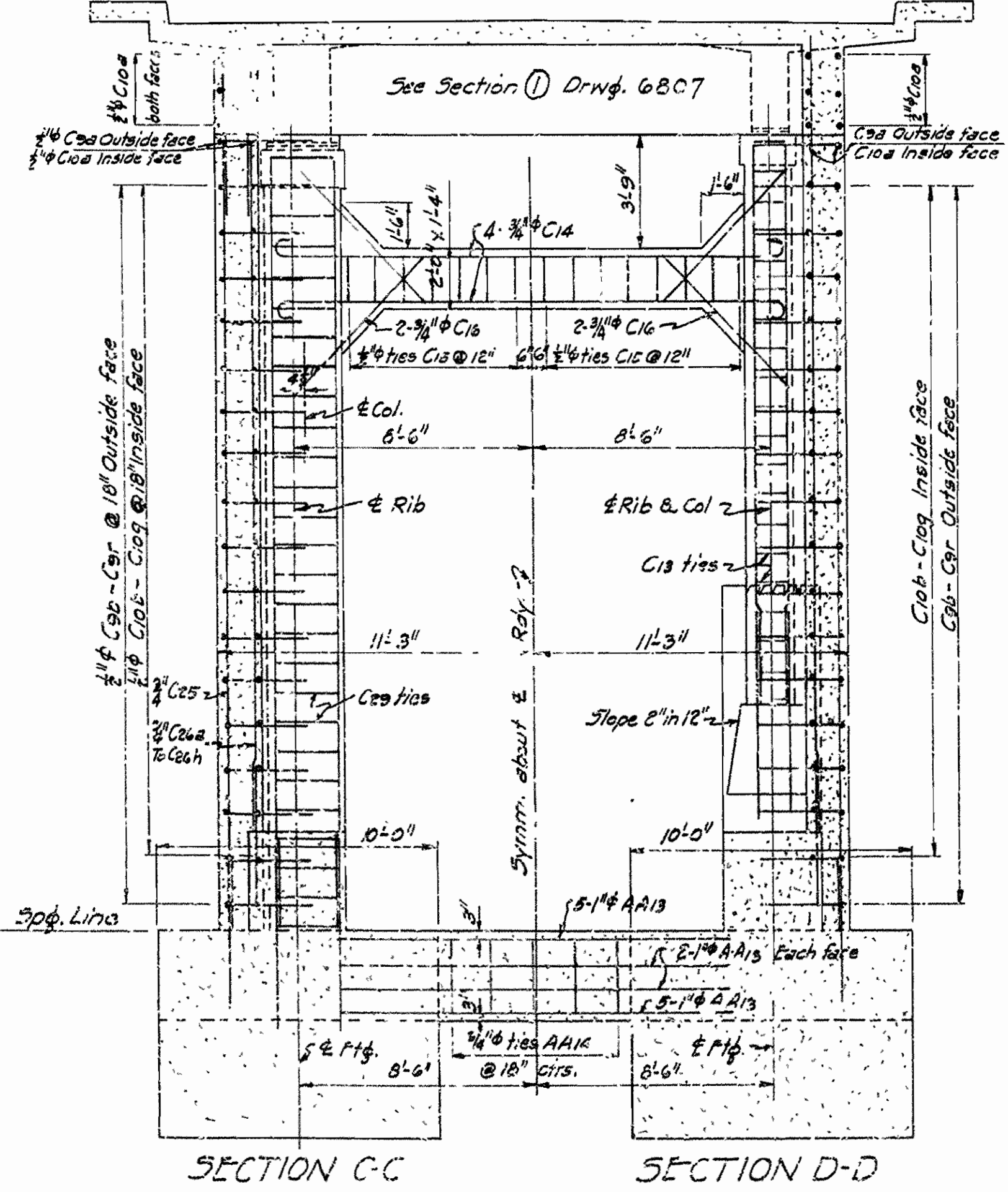
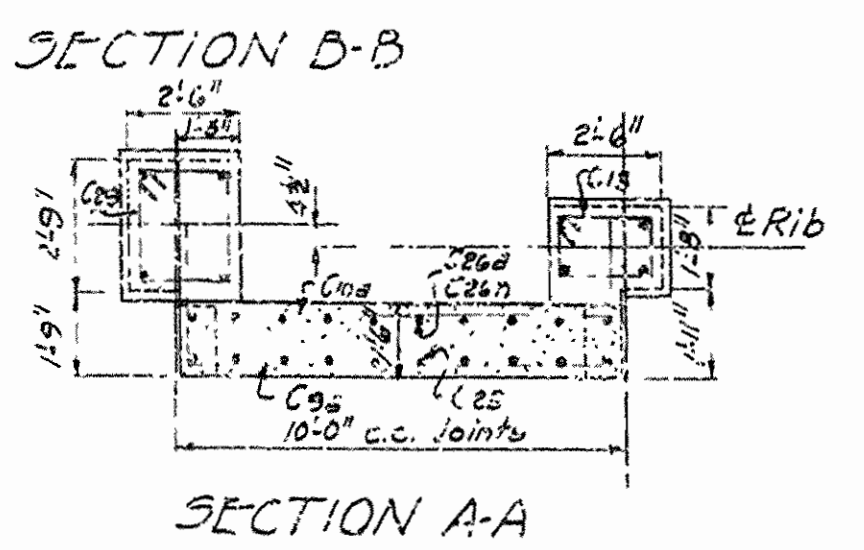
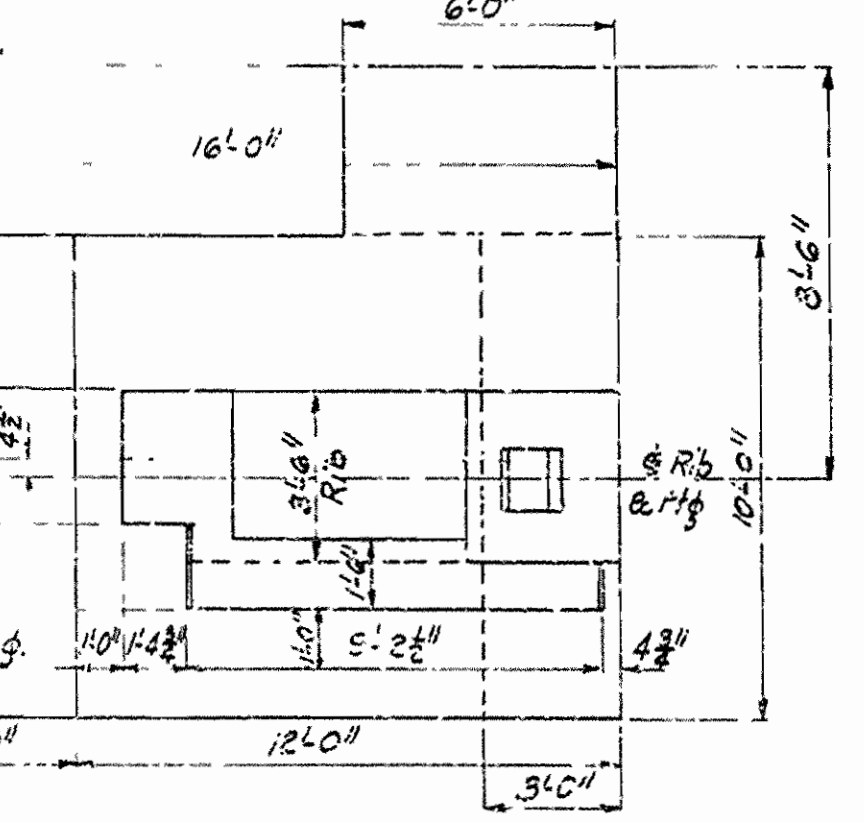
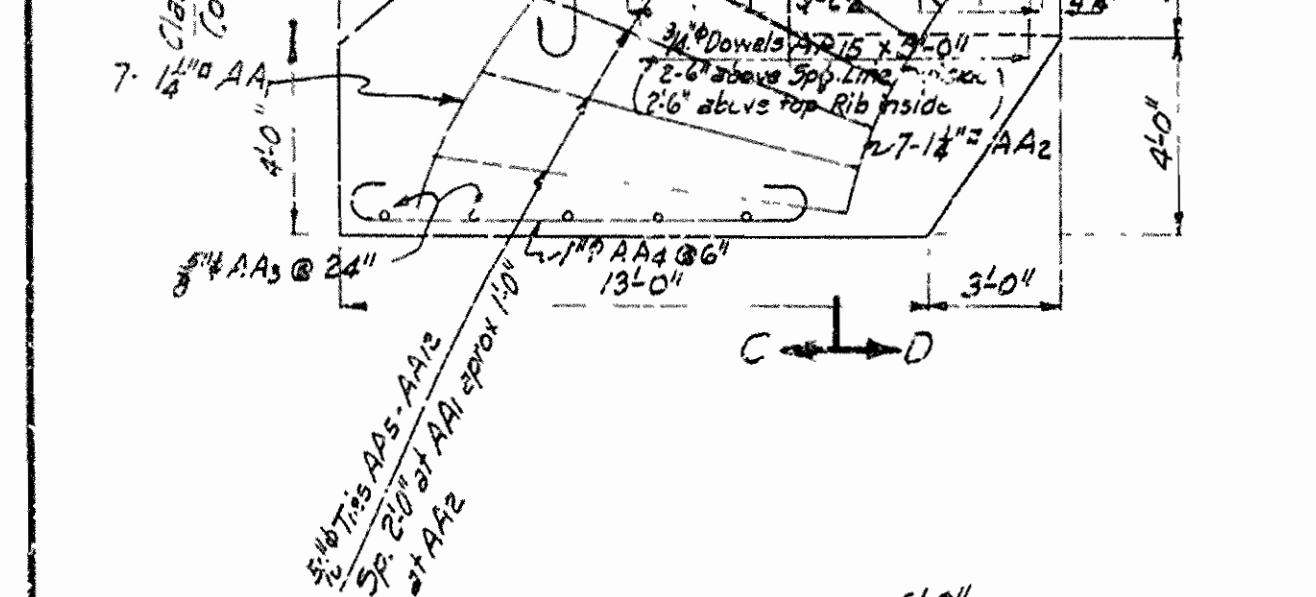
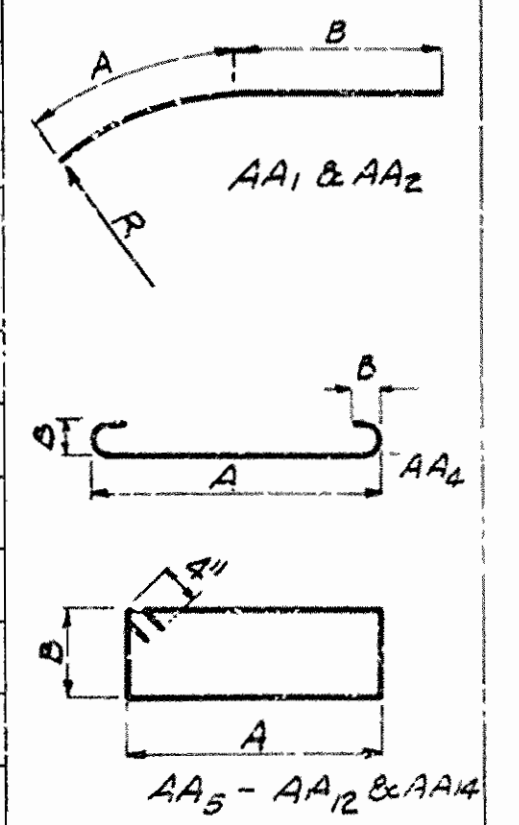
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	ARK.			27	67
STATE JOB NO. 254					



SECTION A-A SECTION B-B SECTION E-E
DETAILS OF HANDRAIL
Scale 1/4" = 1'-0"

Complete Bar List One Abutment

Mark	Size	No. Reqd.	Length	A	B	R
AA1	1 1/4"	14	25'-5"	7'-7"	18'-2"	11'-7"
AA2	1 1/4"	14	23'-6"	7'-7"	15'-11"	9'-7 1/2"
AA3	5/8"	10	9'-8"	Straight		
AA4	1"	40	12'-0"	10'-0"	8"	
AA5	5/8"	2	17'-5"	5'-2"	3'-2"	
AA6	5/8"	2	17'-9"	5'-4"	3'-2"	
AA7	5/8"	2	18'-5"	5'-8"	3'-2"	
AA8	5/8"	2	19'-9"	6'-4"	3'-2"	
AA9	5/8"	2	21'-5"	7'-2"	3'-2"	
AA10	5/8"	2	23'-1"	8'-0"	3'-2"	
AA11	5/8"	2	24'-5"	8'-8"	3'-2"	
AA12	5/8"	2	25'-7"	9'-3"	3'-2"	
AA13	1"	14	14'-0"	Straight		
AA14	3/4"	5	17'-3"	5'-7 1/2"	2'-7 1/2"	
AA15	3/4"	32	5'-0"	Straight		



SECTION AT ARCH CROWN
Typical for Spandrel Walls

See Drwg. No. 6807 For General details and Bar Lists
See Drwg. No. 6805 For Right half of Span

DETAILS OF 150' ARCH SPAN
BRIDGE OVER SELF CREEK
DIERKS - KIRBY ROAD
PIKE COUNTY

ROUTE 70 SEC. 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

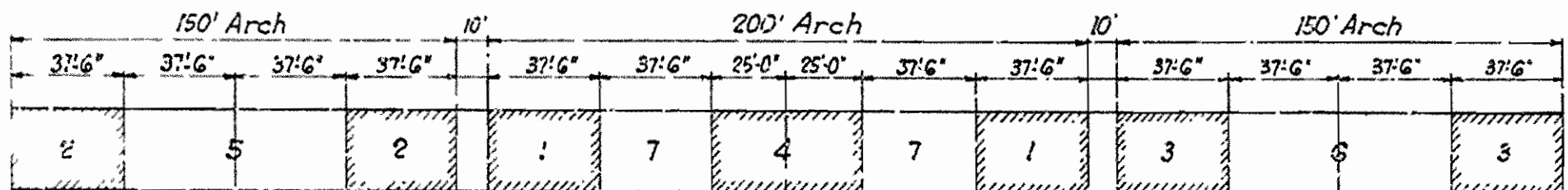
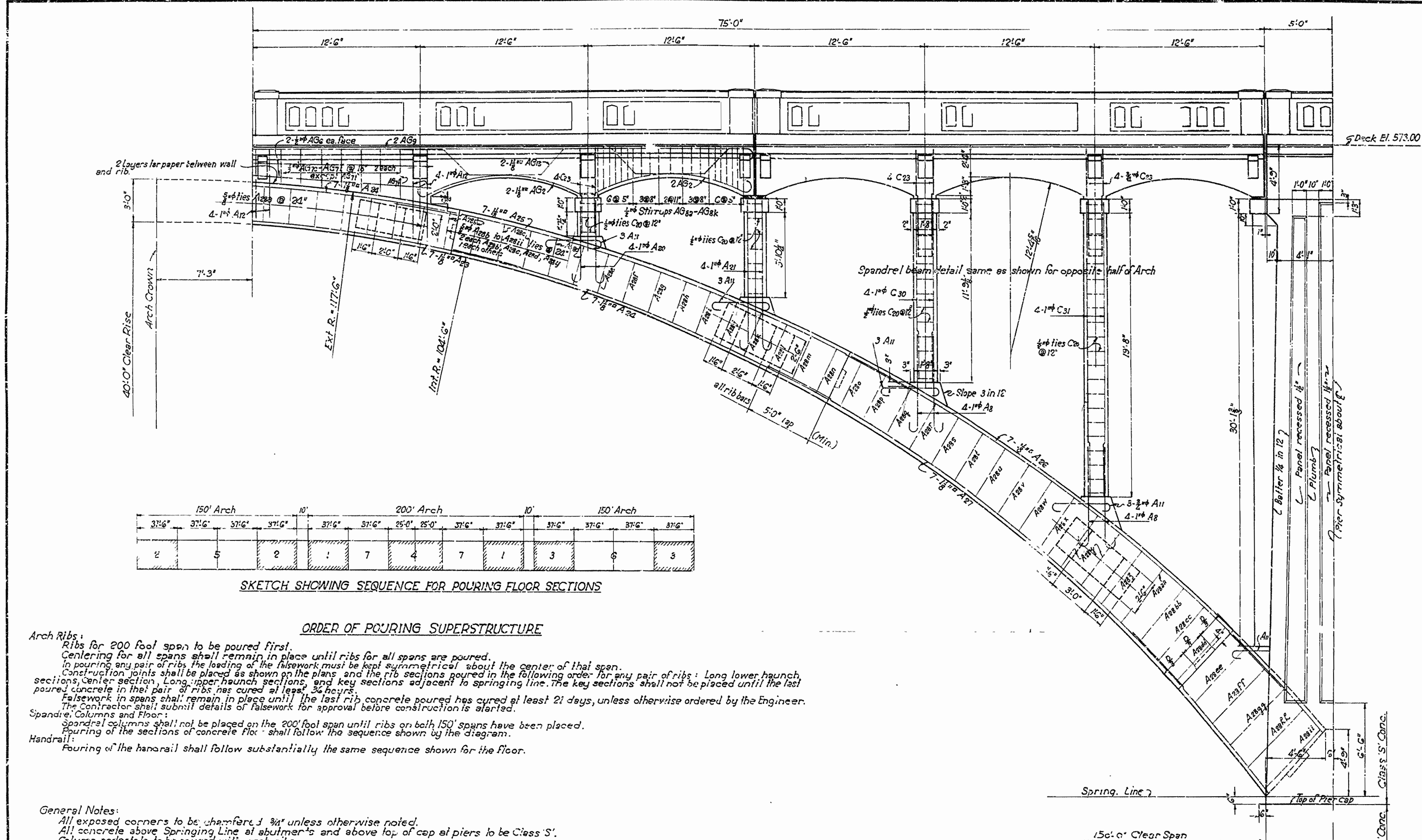
Drawn By: EAW Date: 3-14-46
Traced By: L.A.M.F. Date: 3-21-46
Checked By: Date:

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

BRIDGE NO. 285-A DRAWING NO. 6804

H.A. Garver
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

FED. ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			27	27
STATE JOB NO.					



SKETCH SHOWING SEQUENCE FOR POURING FLOOR SECTIONS

ORDER OF POURING SUPERSTRUCTURE

Arch Ribs:
 Ribs for 200 foot span to be poured first.
 Centering for all spans shall remain in place until ribs for all spans are poured.
 In pouring any pair of ribs the loading of the falsework must be kept symmetrical about the center of that span.
 Construction joints shall be placed as shown on the plans and the rib sections poured in the following order: for any pair of ribs: Long lower haunch sections, center section, Long upper haunch sections, and key sections adjacent to springing line. The key sections shall not be placed until the last poured concrete in that pair of ribs has cured at least 24 hours.
 Falsework in spans shall remain in place until the last rib concrete poured has cured at least 21 days, unless otherwise ordered by the engineer.
 The Contractor shall submit details of falsework for approval before construction is started.

Spandrel Columns and Floor:
 Spandrel columns shall not be placed on the 200 foot span until ribs on both 150' spans have been placed.
 Pouring of the sections of concrete floor shall follow the sequence shown by the diagram.

Handrail:
 Pouring of the handrail shall follow substantially the same sequence shown for the floor.

General Notes:
 All exposed corners to be chamfered 3/4" unless otherwise noted.
 All concrete above Springing Line of abutments and above top of cap at piers to be Class 'S'.
 Column pedestals to be poured with arch ribs.
 Reinforcing steel to be deformed bars of structural or intermediate grade. All dimensions relating to reinforcing steel are to centers of bars. Shop lists and bending diagrams must be submitted by the contractor and approved before fabrication is begun.
 All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire supports sufficient in number and size to prevent displacement during the course of construction and to keep the steel a proper distance from the forms. Wire supports will not be paid for directly but will be considered subsidiary to the item of "Reinforcing Steel". Shop lists and diagrams of the type to be furnished must be submitted for approval.
 Roadway expansion and bearing devices will be paid for at the unit price bid for "Metal Bearing and Roadway Expansion Devices". Shop drawings of expansion and bearing devices shall be made in compliance with the specifications and shall be submitted and approved before fabrication is begun.
 Paint: All exposed parts of expansion and bearing devices, except as noted, shall be given one shop coat of red lead and raw linseed oil and two field coats of paint consisting of a first coat of white lead and a second coat of white lead tinted with lamp black or aluminum paint.
 SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1st, 1940.

Design Live Load H20 Loading AASHO 1944
 Load Distribution to Girders: Dead Load 2500#/Lin.Ft.
 Live Load 235 Wheels or 11.8 Lanes

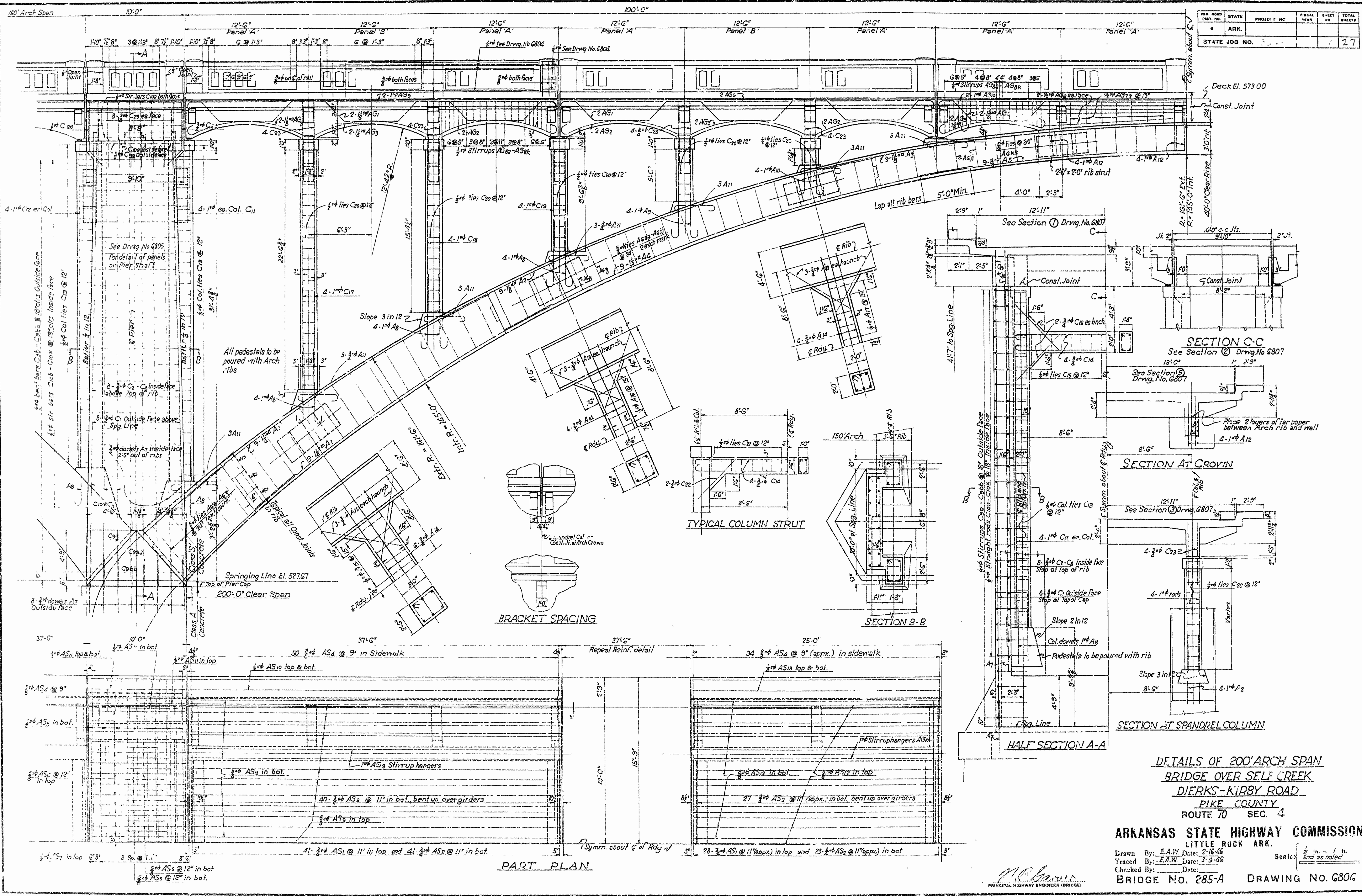
Unit Stresses:	
Class 'A' Concrete (n=15)	700#/sq
Class 'S' Concrete (n=10)	1000#/sq
Reinforcing Steel	18000#/sq
Structural Steel	18000#/sq

See Dwg. No. G807 For General details and Bar Lists
 See Dwg. No. G804 for Left half of Span

DETAILS OF 150' ARCH SPAN
BRIDGE OVER SELF CREEK
KIRBY ROAD
PIKE COUNTY
 ROUTE 70 SEC. 4
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: E.A.W. Date: 2-25-46
 Traced By: E.A.W. Date: 3-15-46
 Checked By: _____ Date: _____
 Scale: 1/4 in. = 1 ft.
 BRIDGE NO. 285-A DRAWING NO. G805

E.A.W.
 PRINCIPAL HIGHWAY ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
0	ARK.			1	27
STATE JOB NO. 3000					



**DETAILS OF 200' ARCH SPAN
BRIDGE OVER SELF CREEK
DIERKS-KIRBY ROAD
PIKE COUNTY
ROUTE 70 SEC. 4**

**ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.**
 Drawn By: E.A.W. Date: 2-16-46
 Traced By: E.A.W. Date: 3-9-46
 Checked By: _____ Date: _____
 Scale: 1/2" = 1'-0"
BRIDGE NO. 285-A DRAWING NO. G80G

E.A.W.
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

PART PLAN

SECTION AT SPANDREL COLUMN

HALF SECTION A-A

SECTION AT CROWN

TYPICAL COLUMN STRUT

BRACKET SPACING

SECTION B-B

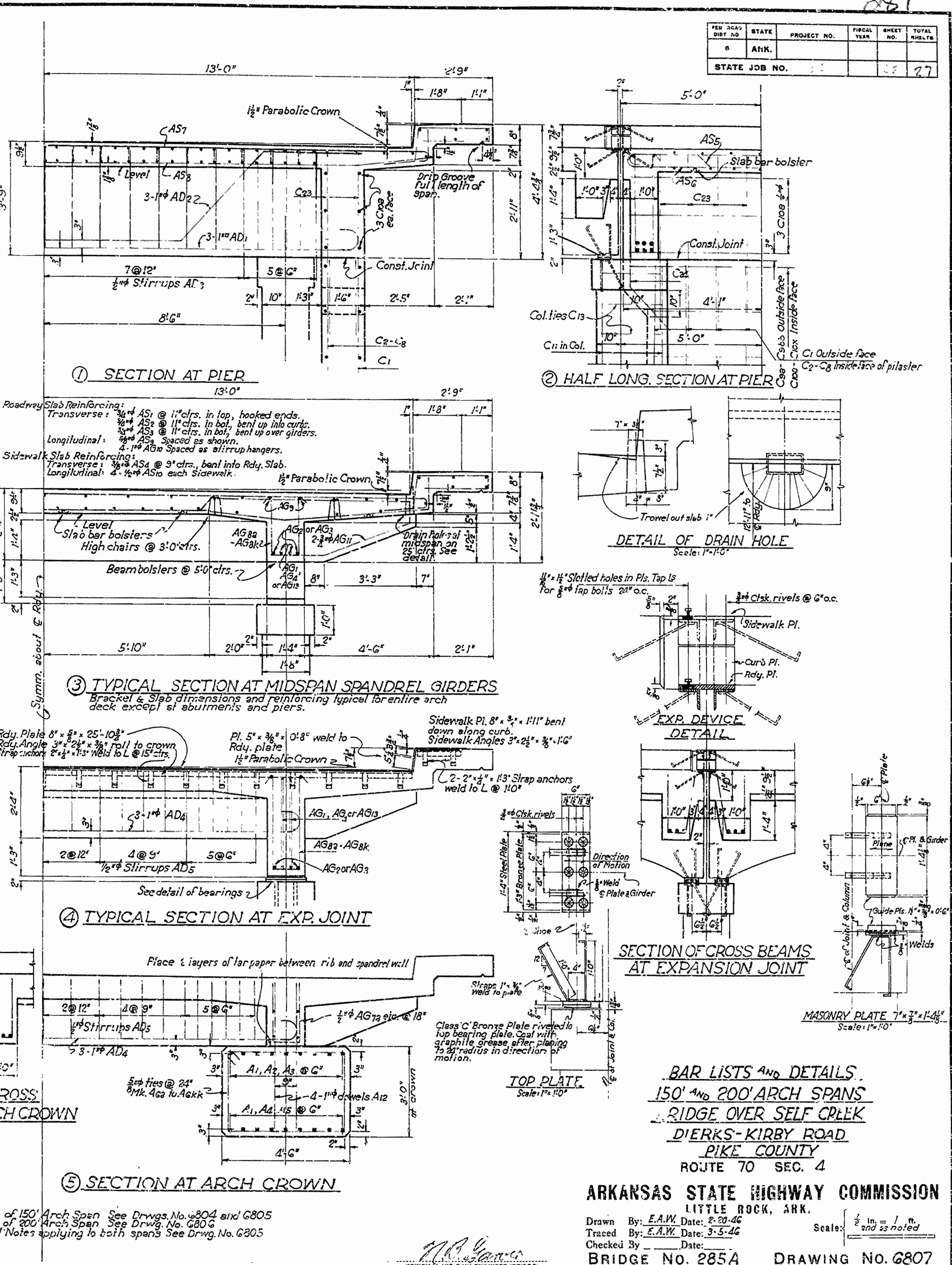
SECTION C-C

Complete List of Reinforcing for 200' Arch and 2-Fier Superstr.

Location	Mark	Size	No. Reqd.	Length	a	b	c	d	Type	Diagram	
Arch Ribs	A1	1/2"	72	35'-9"					Straight	Type 1	
	A2	1/2"	36	45'-3"					Straight		
	A3	1/2"	36	35'-3"					Straight		
	A4	1/2"	36	48'-3"					Straight		
	A5	1/2"	18	55'-3"					Straight		
Pilester	A6a	5/8"	4	19'-3"	6'-0"	4'-2"				Type 2	
	A6b	5/8"	4	19'-3"	6'-0"	4'-2"					
	A6c	5/8"	4	19'-3"	6'-0"	4'-2"					
Spandrel Column dowels	A7	3/4"	64	5'-0"					Straight	Type 3	
	A8	1/2"	80	7'-9"	6'-9"	8"					
	A9	1/2"	16	10'-0"	9'-0"	8"					
Rib Struts	A13	3/4"	96	7'-0"					Straight	Type 4	
	A14	3/4"	48	17'-6"					Straight		
	A15	1/2"	20	10'-3"	2'-7 1/2"	2'-1 1/2"					
Deck Cross Beams	AD1	1"	12	24'-0"	0'-7 1/2"	8"				Type 5	
	AD2	1"	12	25'-0"	0'-9"	3'-6"	2'-11"	4'-1 1/2"			Type 6
	AD3	1"	100	8'-0"	0'-7 1/2"	3'-3 3/4"					
Spandrel Beams, Walls and all Brackets	AG1	1/2"	16	43'-6"					See Diagram	Type 8	
	AG2	1/2"	32	13'-2"					See Diagram		
	AG3	1/2"	16	13'-2"					See Diagram		
	AG4	1/2"	8	17'-3"					See Diagram		
	AG5	1/2"	8	12'-3"					See Diagram		
	AG6	1/2"	16	13'-6"					Straight		
	AG7a	1/2"	23	4'-0"	0'-11"	1'-1 1/2"					
	AG8a	1/2"	32	5'-7"	0'-11"	1'-1 1/2"					
	AG8b	1/2"	56	6'-4"	0'-11"	2'-0"					
	AG8c	1/2"	56	6'-4"	0'-11"	10'-3 3/4"					
Roadway and Sidewalk Slabs	AS1	3/4"	220	27'-10"	27'-0"	3"				Type 11	
	AS2	3/4"	220	29'-0"	5'-0"	2'-7"	5'-1"	1'-0"			
	AS3	3/4"	214	28'-3"	5'-6"	0'-6"	0'-8"	7'-6"			
	AS4	3/4"	588	7'-0"	1'-0"	1'-1"	2'-2"	0'-5"			
	AS5	3/4"	38	10'-3"	1'-0"	0'-4"	0'-6"	2'-6"			
	AS6	3/4"	99	10'-4"	9'-6"	0'-3 3/4"					
	AS7	3/4"	22	27'-10"	27'-0"	0'-3 3/4"					
	AS8	3/4"	14	28'-10"	11'-0"	2'-5"					
	AS9	3/4"	156	37'-0"					Straight		
	AS10	3/4"	32	37'-0"					Straight		
Columns and Pilesters	C1	3/4"	32	41'-11"					Straight	Type 14	
	C2	3/4"	32	Varies					Straight		
	C3a	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					
	C3b	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					
	C3c	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					
	C3d	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					
	C3e	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					
	C3f	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					
	C3g	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					
	C3h	1/2"	4	15'-10"	9'-5 1/2"	3'-2"					

Complete List of Reinforcing for 150' Arch and 1-Abutment Superstr.

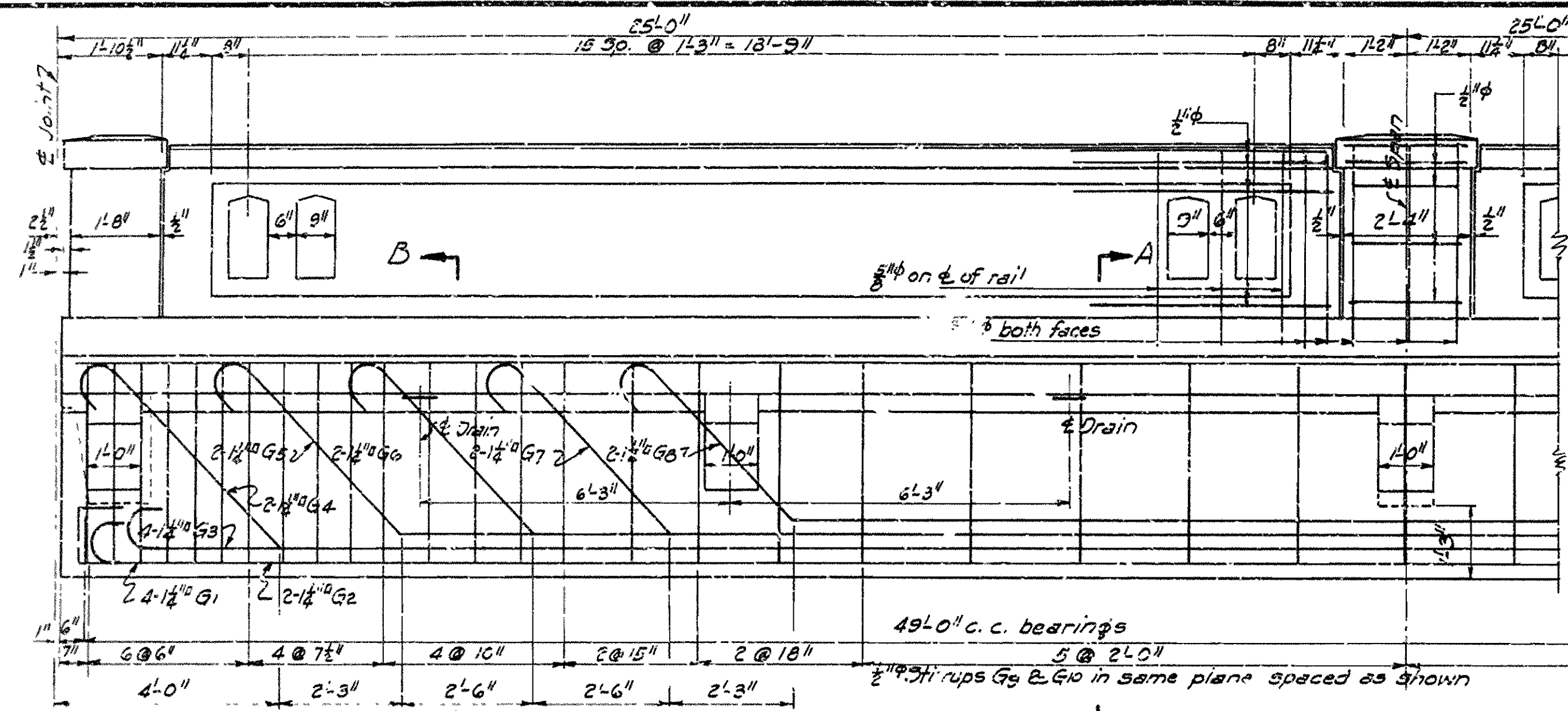
Location	Mark	Size	No. Reqd.	Length	a	b	c	d	Type	Diagram		
Arch Ribs	A22	1/2"	28	32'-9"					Straight	Type 1		
	A23	1/2"	42	34'-6"					Straight			
	A24	1/2"	28	35'-9"					Straight			
	A25	1/2"	14	40'-6"					Straight			
	A26	1/2"	14	39'-0"					Straight			
	A27	1/2"	12	37'-9"					Straight			
	A28a	5/8"	40	12'-5"	2'-0"	3'-2"						
	A28b	5/8"	6	12'-7"	2'-0"	3'-2"						
	A28c	5/8"	6	12'-10"	2'-0"	3'-2"						
	A28d	5/8"	6	12'-11"	2'-11"	3'-2"						
Spandrel Column dowels	A28e	5/8"	4	14'-7"	2'-11"	3'-2"				Type 2		
	A28f	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28g	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28h	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28i	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28j	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28k	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28l	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28m	5/8"	4	14'-7"	2'-11"	3'-2"						
	A28n	5/8"	4	14'-7"	2'-11"	3'-2"						
Rib Struts	A18	1/2"	8	6'-1"	5'-1"	8"				Type 4		
	A19	1/2"	8	10'-2"	9'-2"	8"						
	A20	1/2"	8	6'-9"	5'-9"	8"						
	A21	1/2"	8	11'-0"	10'-0"	8"						
	A13	3/4"	60	7'-0"					Straight			
	A14	3/4"	30	17'-6"					Straight			
	A15	1/2"	22	10'-3"	2'-7 1/2"	2'-1 1/2"						
	A16	1/2"	22	9'-3"	2'-1 1/2"	2'-1 1/2"						
	A17	1/2"	11	7'-3"	1'-7 1/2"	1'-7 1/2"						
	Deck Cross Beams	AD1	1"	12	24'-0"	0'-7 1/2"	8"					Type 5
AD2		1"	6	25'-0"	0'-9"	3'-6"	2'-11"	4'-1 1/2"		Type 6		
AD3		1"	50	8'-0"	0'-7 1/2"	3'-3 3/4"						
AD4		1"	24	20'-0"	18'-0"	8"						
AD5		1"	164	4'-4"	0'-7 1/2"	1'-10"						
AG1		1/2"	8	43'-6"					See Diagram		Type 8	
AG2		1/2"	28	13'-2"					See Diagram			
AG3		1/2"	8	13'-2"					See Diagram			
AG4		1/2"	4	17'-3"					See Diagram			
AG5		1/2"	8	13'-6"					Straight			
AG6	1/2"	14	4'-10"	0'-11"	1'-1 1/2"							
AG7	1/2"	14	4'-10"	0'-11"	2'-3 1/2"							
AG8	1/2"	8	5'-6"	0'-11"	2'-5"							
AG9	1/2"	8	6'-0"	0'-11"	2'-5"							
AG10	1/2"	2	7'-9"	0'-11"	3'-5"							
Roadway and Sidewalk Slabs	AS1	3/4"	220	27'-10"	27'-0"	3"				Type 11		
	AS2	3/4"	220	29'-0"	5'-0"	2'-7"	5'-1"	1'-0"				
	AS3	3/4"	214	28'-3"	5'-6"	0'-6"	0'-8"	7'-6"				
	AS4	3/4"	588	7'-0"	1'-0"	1'-1"	2'-2"	0'-5"				
	AS5	3/4"	38	10'-3"	1'-0"	0'-4"	0'-6"	2'-6"				
	AS6	3/4"	99	10'-4"	9'-6"	0'-3 3/4"						
	AS7	3/4"	22	27'-10"	27'-0"	0'-3 3/4"						
	AS8	3/4"	14	28'-10"	11'-0"	2'-5"						
	AS9	3/4"	156	37'-0"					Straight			
	AS10	3/4"	32	37'-0"					Straight			
Columns and Pilesters	C1	3/4"	32	41'-11"					Straight	Type 14		
	C2	3/4"	32	Varies					Straight			
	C3a	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						
	C3b	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						
	C3c	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						
	C3d	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						
	C3e	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						
	C3f	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						
	C3g	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						
	C3h	1/2"	4	15'-10"	9'-5 1/2"	3'-2"						



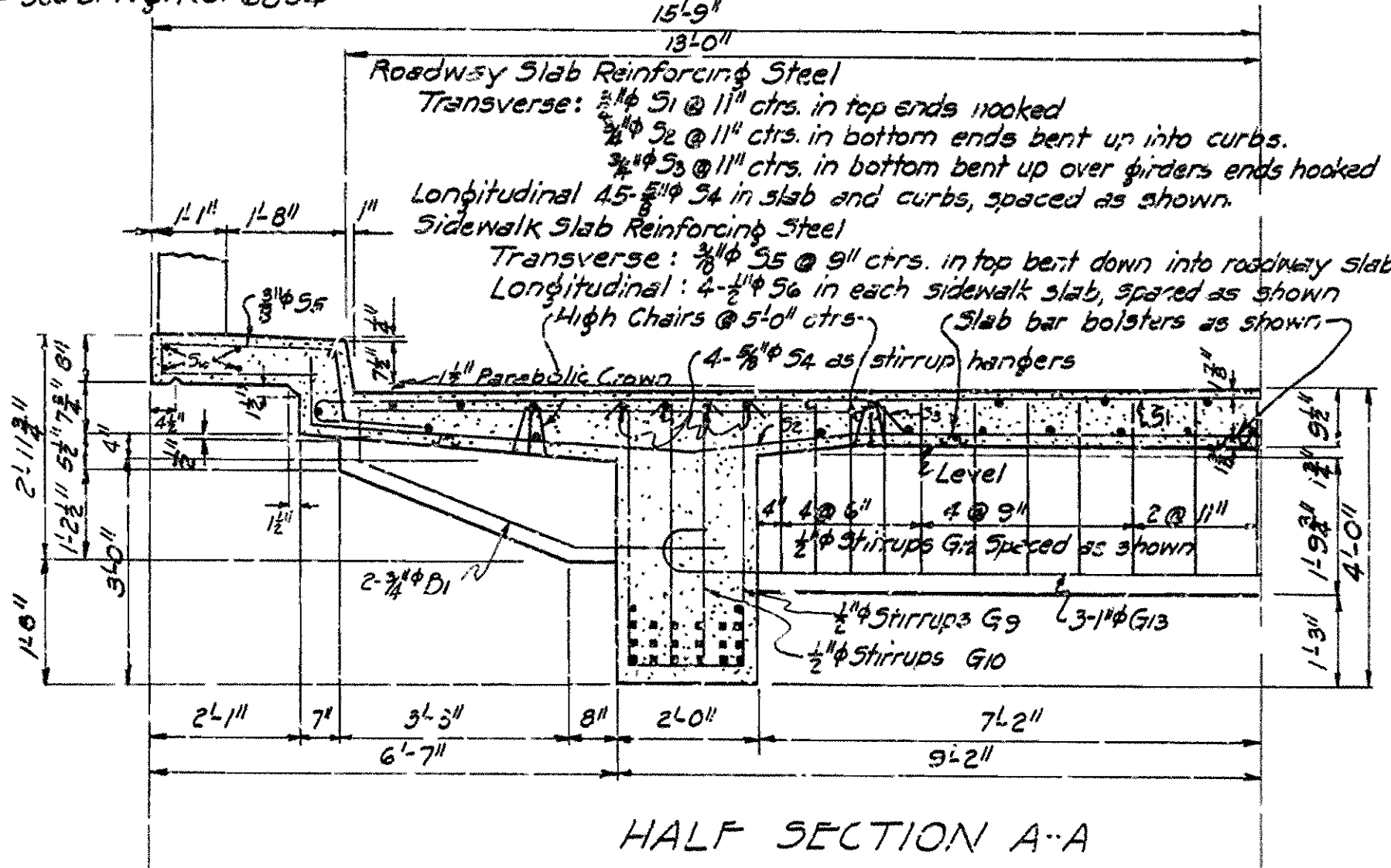
Note: For details of 150' Arch Span See Drawgs. No. 6804 and 6805. For details of 200' Arch Span See Drawg. No. 6806. For General Notes applying to both spans See Drawg. No. 6805.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	ARK.			27	
STATE JOB NO. 2243					

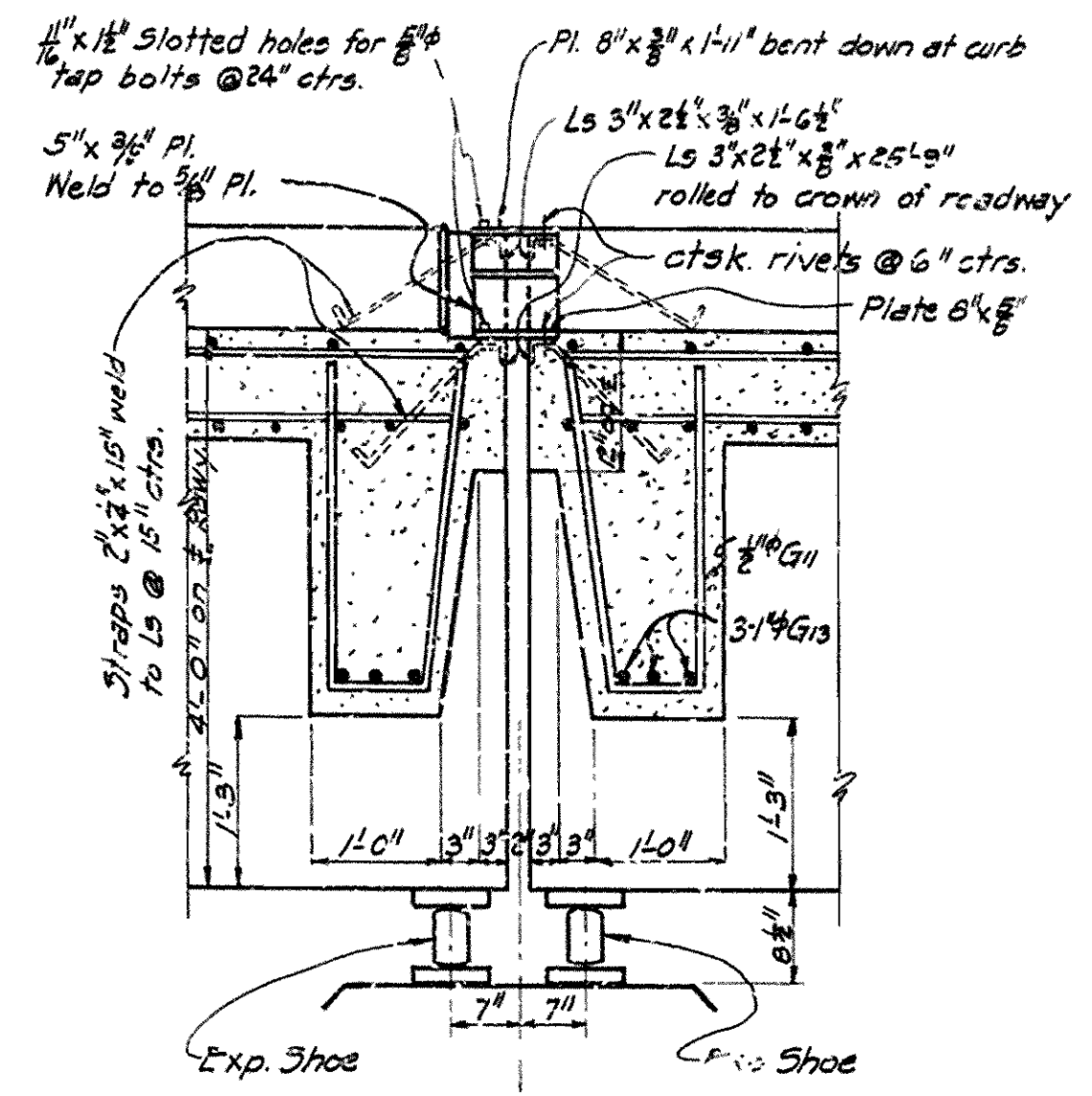
For Details of Rail See Drawg. No. 6804



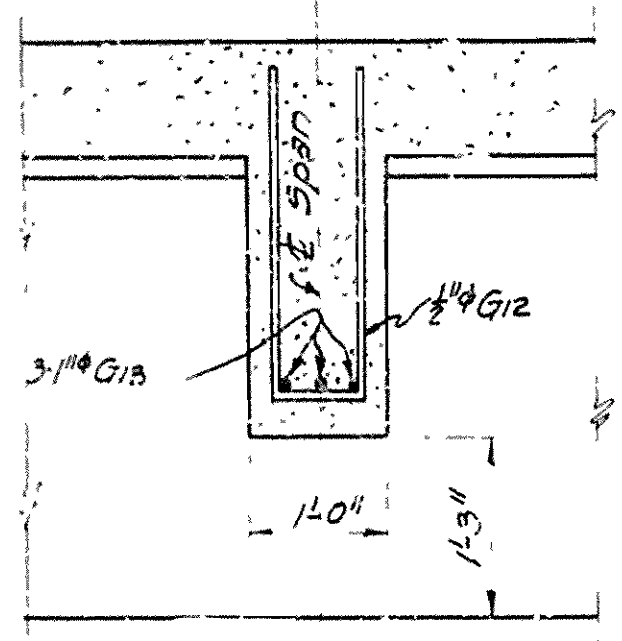
ELEVATION



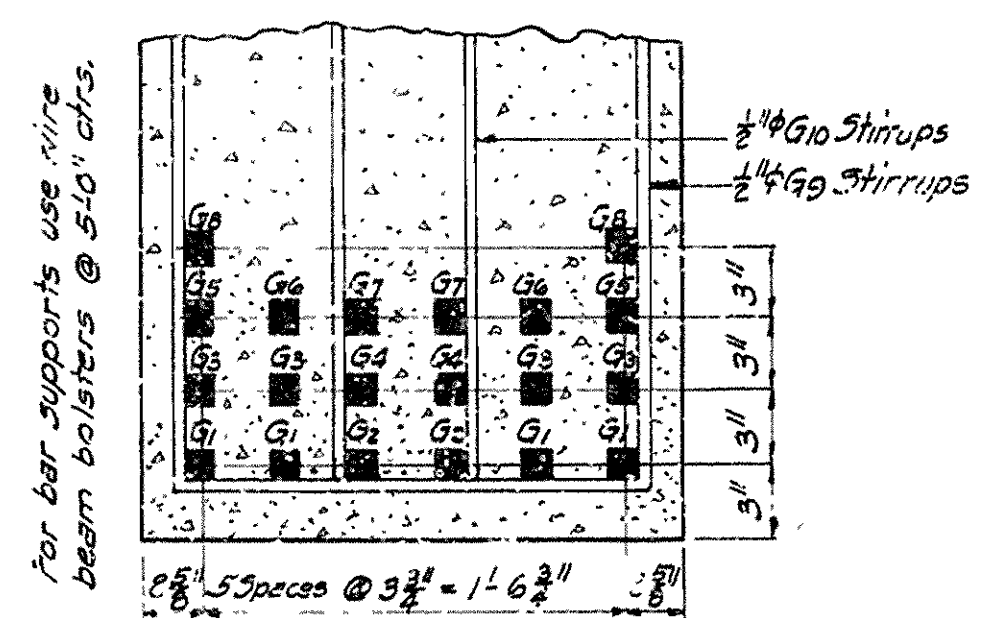
HALF SECTION A-A



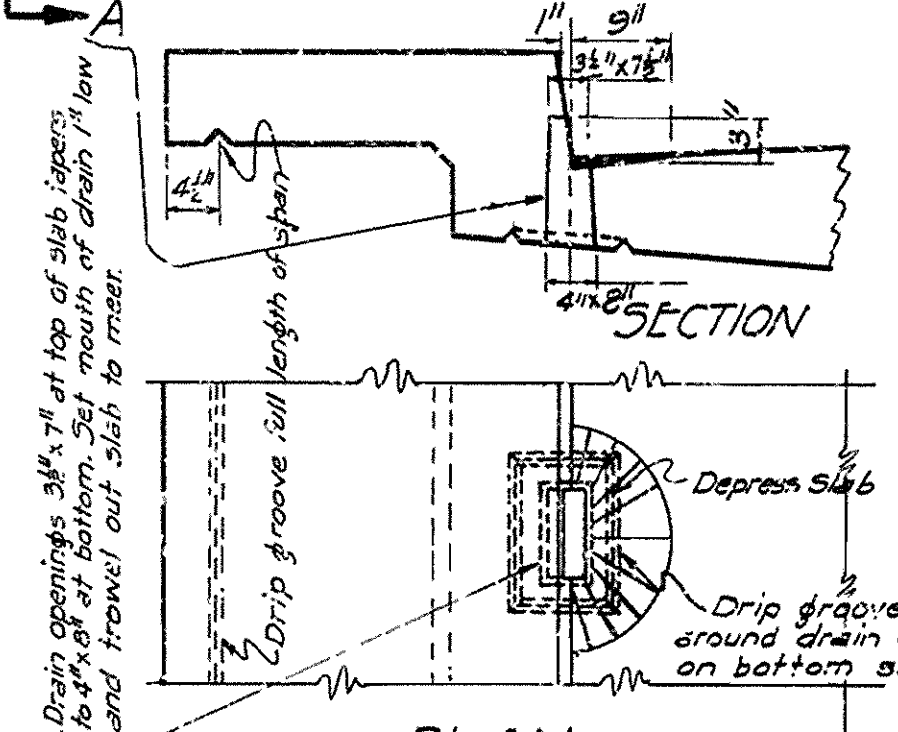
EXPANSION DETAILS AT PIER NO 5 Scale 1/2" = 1'-0"



SECTION OF STRUT AT MID SPAN Scale 1/2" = 1'-0"

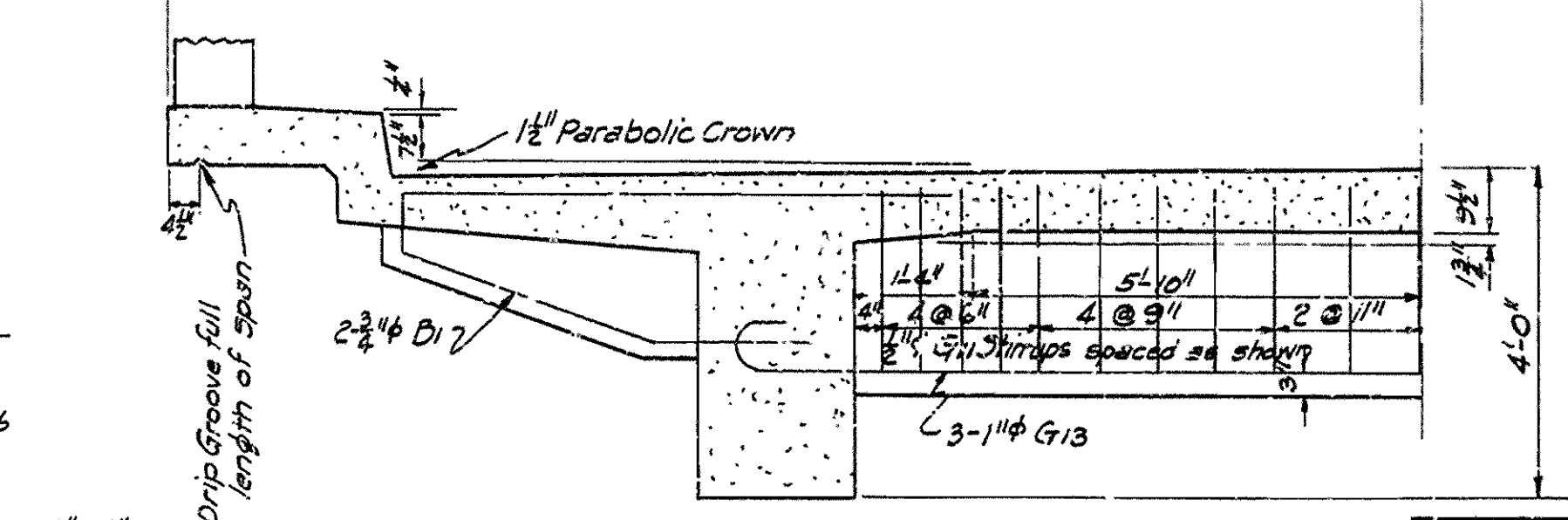


DETAIL OF GIRDERS AT MID SPAN Scale 1/2" = 1'-0"



PLAN DETAIL OF DRAIN OPENING Scale 3/4" = 1'-0"

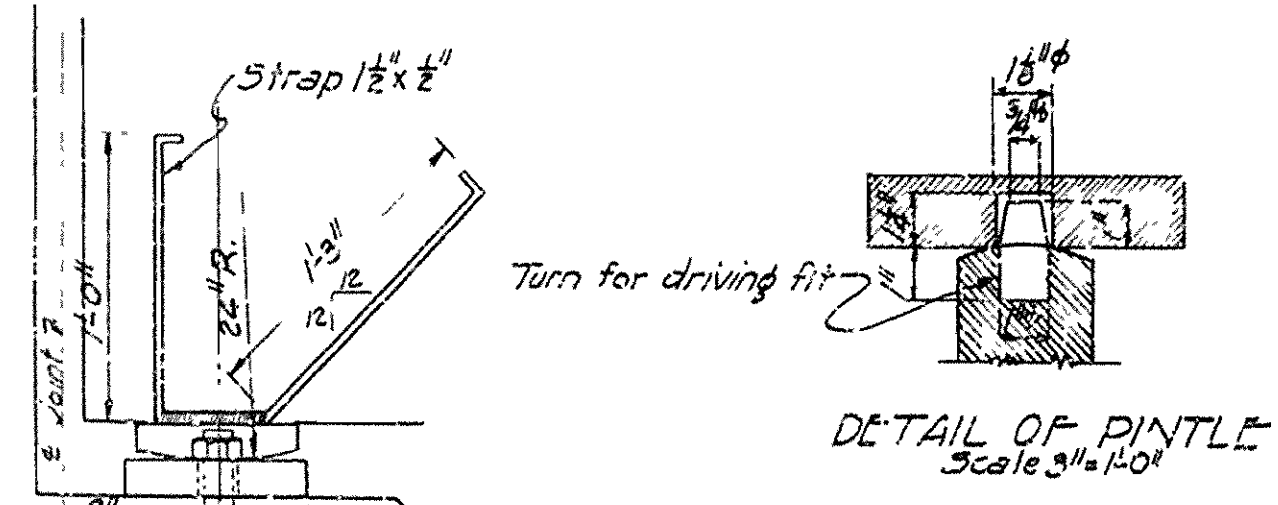
NOTE: Construct 8 Drain openings per span 4 each side of roadway at mid points of overhang brackets. See Elevation



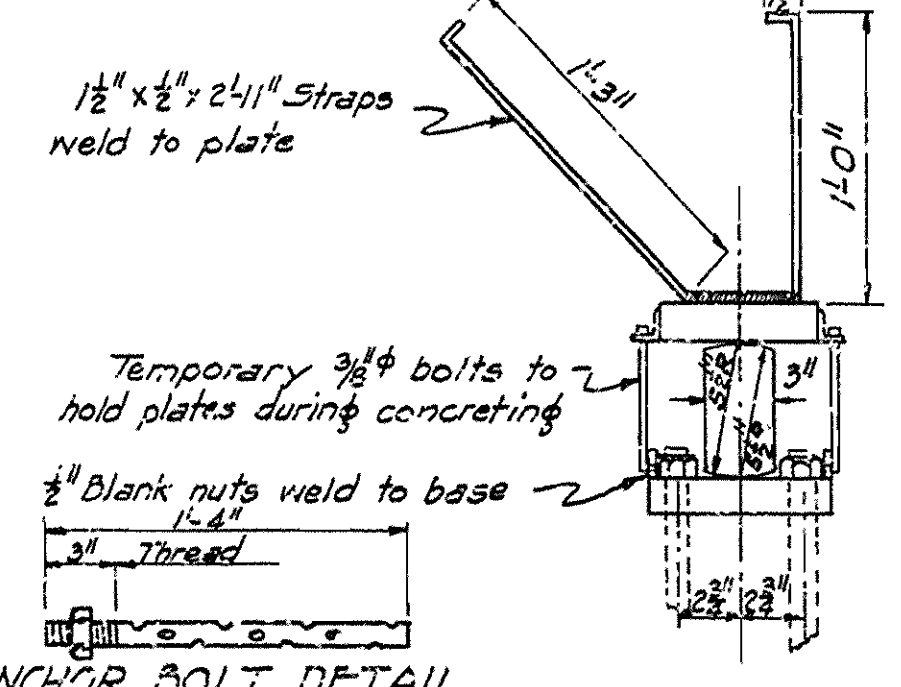
HALF SECTION B-B

LIST OF BENT BARS

MARK	SIZE	LENGTH	A	B	C	D	BENDING DIAGRAM
G1	1 1/2"	53'-5"	49'-5"				
G2	1 1/2"	51'-2"	49'-2"	8"			
G3	1 1/2"	49'-10"	47'-10"	8"			
G4	1 1/2"	53'-5"	42'-0"	4'-8 1/2"	3'-8"	3'-2 1/2"	
G5	1 1/2"	48'-3"	37'-6"	4'-4 1/2"	3'-5"	2'-11 1/2"	
G6	1 1/2"	43'-3"	32'-6"	4'-4 1/2"	3'-5"	2'-11 1/2"	
G7	1 1/2"	38'-3"	27'-6"	4'-4 1/2"	3'-5"	2'-11 1/2"	
G8	1 1/2"	33'-1"	23'-0"	4'-0 1/2"	3'-2"	2'-8 1/2"	
G9	1 1/2"	28'-1"	18'-0"				
G10	1 1/2"	23'-6"	13'-6"				
G11	1 1/2"	18'-5"	8'-5"				
G12	1 1/2"	13'-5"	3'-5"				
G13	1 1/2"	8'-5"					
S1	3/4"	27'-10"	27'-0"	3 1/2"			
S2	3/4"	29'-0"					
S3	3/4"	28'-3"					
S5	3/4"	7'-0"					
B1	3/4"	12'-5"					



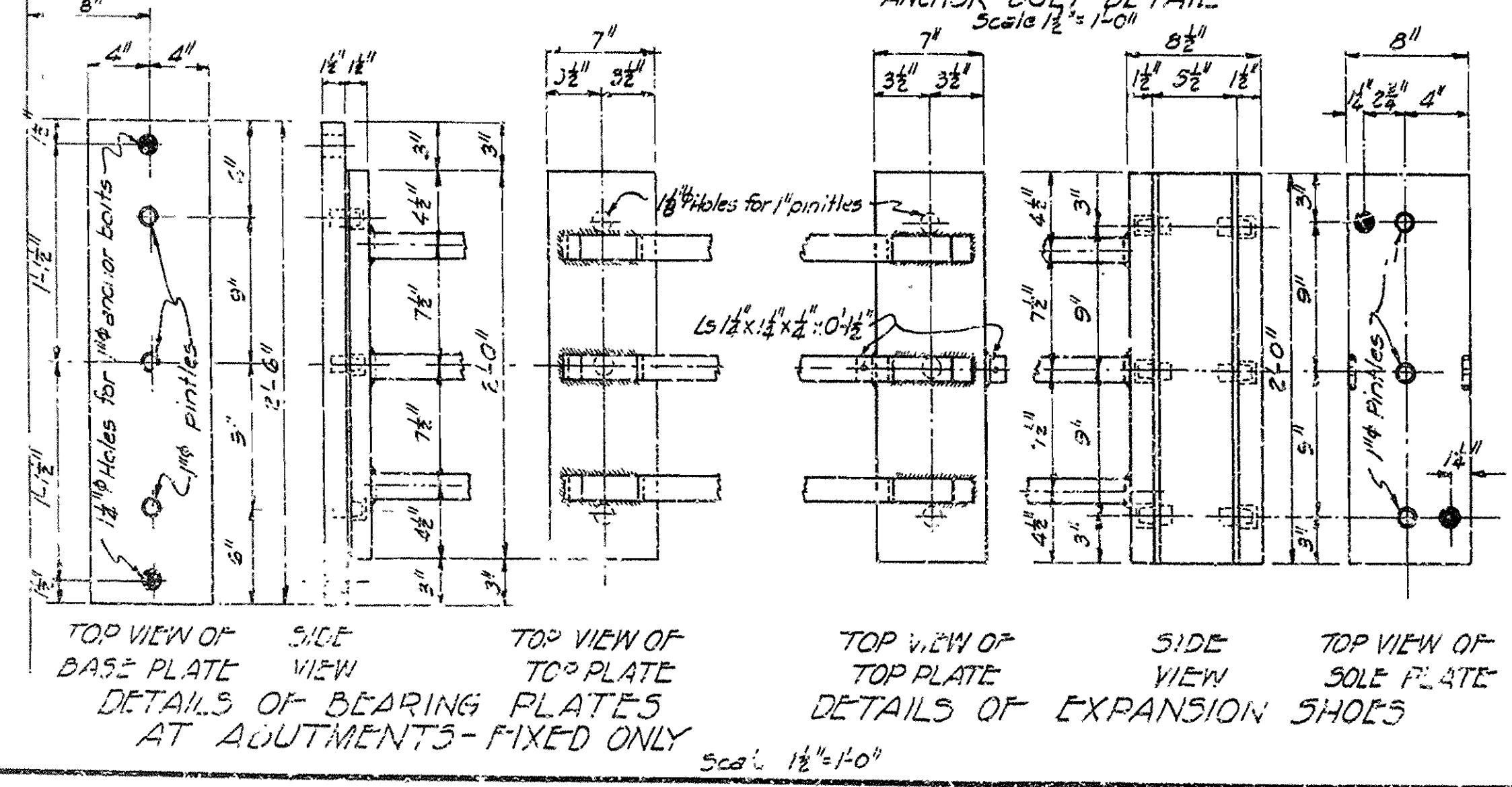
DETAIL OF PINTLE Scale 3/4" = 1'-0"



ANCHOR BOLT DETAIL Scale 1/2" = 1'-0"

GENERAL NOTES:-

All concrete to be Class '5' All exposed corners to have 3/8" chamfer except as noted.
 In order to secure a good riding surface it will be required that the floor slab be struck off, from curb to curb, with a half span length longitudinal strike-off with sufficient stiffness so as to have no appreciable vertical deflection.
 Reinforcing steel to be deformed bars of Structural or Intermediate grade. Shop list and bending diagrams must be submitted and approval secured before fabrication is begun.
 All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire supports adequate to prevent displacement during the course of construction and to keep the steel at a proper distance from the forms.
 Bar supports are to be sufficient in number and sufficiently heavy to carry the steel they support.
 Bar supports will not be paid for directly but will be considered subsidiary to the item of 'Reinforcing Steel'. Shop lists and diagrams must be submitted for approval.
 Weights of shoes and rollers, both cast and structural steel, angles, plates and fittings which make up expansion devices are to be paid for at the unit price bid for 'Metal Bearings and Roadway Expansion Devices'.
 Rivets 3/4" Open holes 1 1/8" except as noted.
 Shop Paint: Bearings and expansion devices (except surfaces in contact with concrete) to be given one coat of red lead and raw linseed oil before shipment.
 Field Paint: First coat, white lead tinter with lamp black. Second coat, Aluminum paint.
 Shop drawings for bearings and expansion devices shall be made in compliance with specifications and shall be approved before fabrication is begun.
 Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1, 1940.
 Live Load - H 20
 Stresses
 2 1/2" Concrete 700# / in²
 5" Concrete 1000# / in²
 Reinforcing Steel 18000# / in²
 Structural Steel 18000# / in²



TOP VIEW OF BASE PLATE SIDE VIEW DETAILS OF BEARING PLATES AT ABUTMENTS - FIXED ONLY Scale 1/2" = 1'-0"

TOP VIEW OF TOP PLATE SIDE VIEW DETAILS OF EXPANSION SHOES Scale 1/2" = 1'-0"

DETAILS OF 50'-0" R.C. DECK GIRDER SPANS 26'-0" CLEAR ROADWAY 2 SIDEWALKS 1'-8" 2 GIRDER TYPE BRIDGE OVER SELF CREEK DIERKS-KIRBY ROAD PIKE COUNTY ROUTE 70 SEC. 2

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.A.M.E. Date: 2-11-46
 Traced By: G.M.E. Date: 2-12-46
 Checked By: _____ Date: _____
 BRIDGE NO. 285-A DRAWING NO. 6808