

Chuck Ford

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		1950	1	11

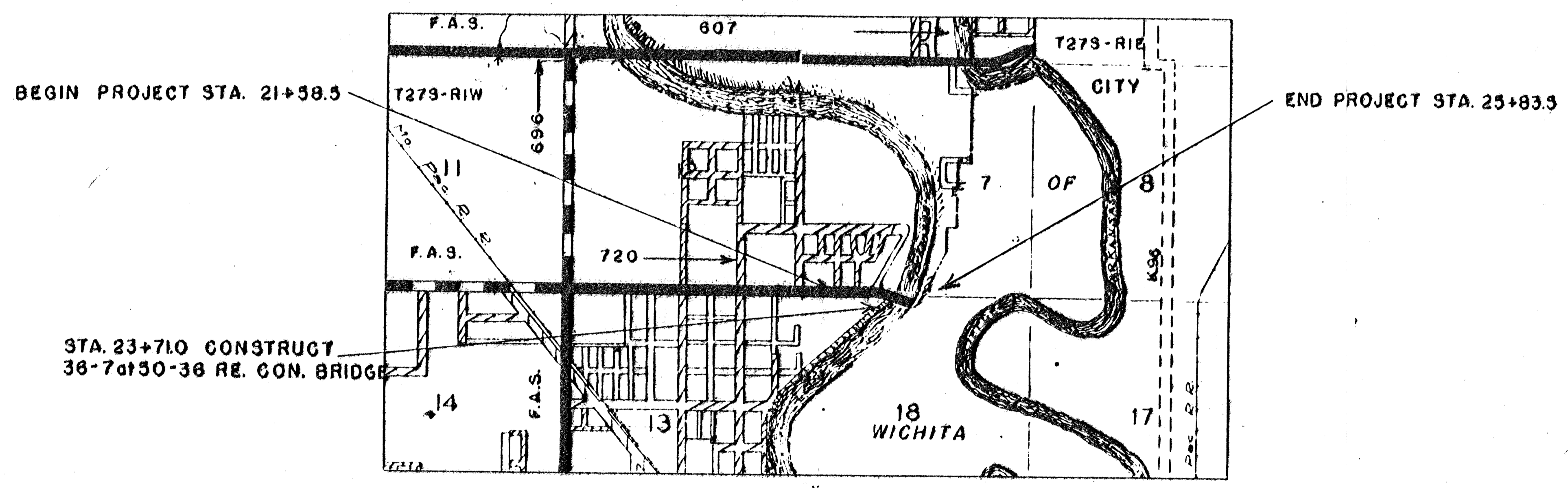


INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
2	PLAN & PROFILE
3	TOPOGRAPHY
4	CONSTRUCTION LAYOUT
5-6	SLAB & GIRDER DETAIL
7	ABUTMENT DETAIL
8	PIER DETAIL
9	AUXILIARY DETAIL
10	LIGHTING DETAIL
11	PILING DETAIL

BRIDGE NO. 616-25-2371

6,158 V.P.D. 1950



CONVENTIONAL SIGNS

COUNTY LINE	-----
SECTION LINE	-----
WIRE FENCE	-----
HEDGE ROW	-----
RAILROADS	-----
SURVEY LINE	-----
RIGHT OF WAY	-----
TELEPHONE POLE	-----
POWER POLE	-----
TRAVELED WAY	-----

NET LENGTH OF PROJECT	425.0	FT.	.08	MILES
NET LENGTH OF BRIDGES	425.0	FT.	.08	MILES
NET LENGTH OF ROAD		FT.		MILES
EXCEPTIONS		FT.		MILES
ADDITONS		FT.		MILES
GROSS LENGTH OF PROJECT		FT.		MILES

PLANS PREPARED BY

DATE

APPROVED

DATE 12-18-50

Walter Johnson
ENGINEER OF SECONDARY ROADS

APPROVED

Rufus Turk
COUNTY ENGINEER

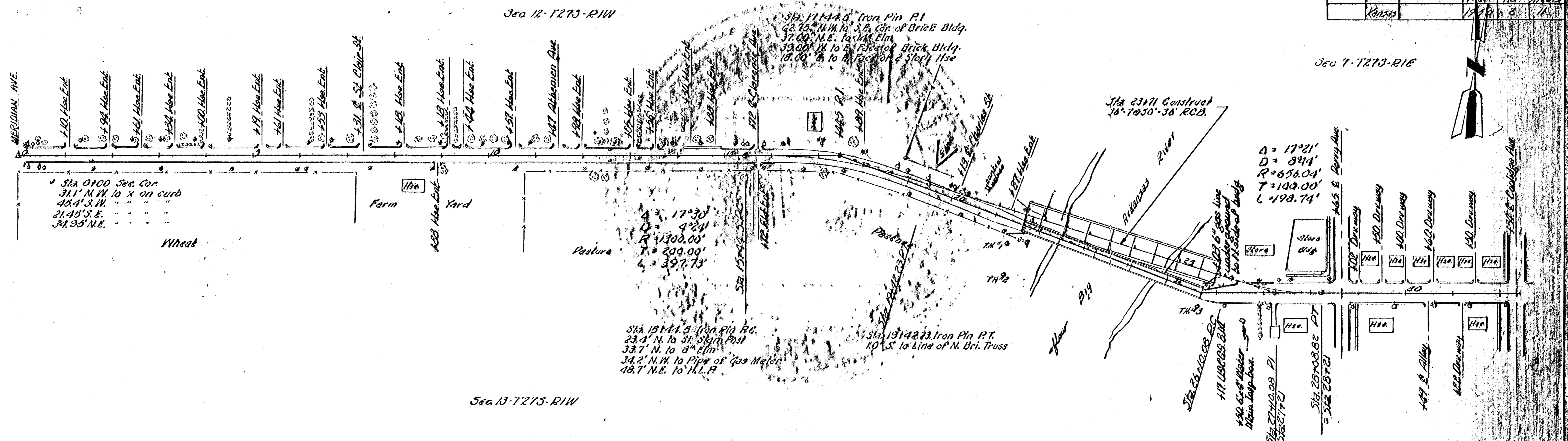
DATE 12-14-50

APPROVED 12-18-50 DATE

R. Keeling
STATE HIGHWAY ENGINEER

13th Street
616-25

State	Official Year	Sheet No.	Total Sheets
Kansas	1934	6	11

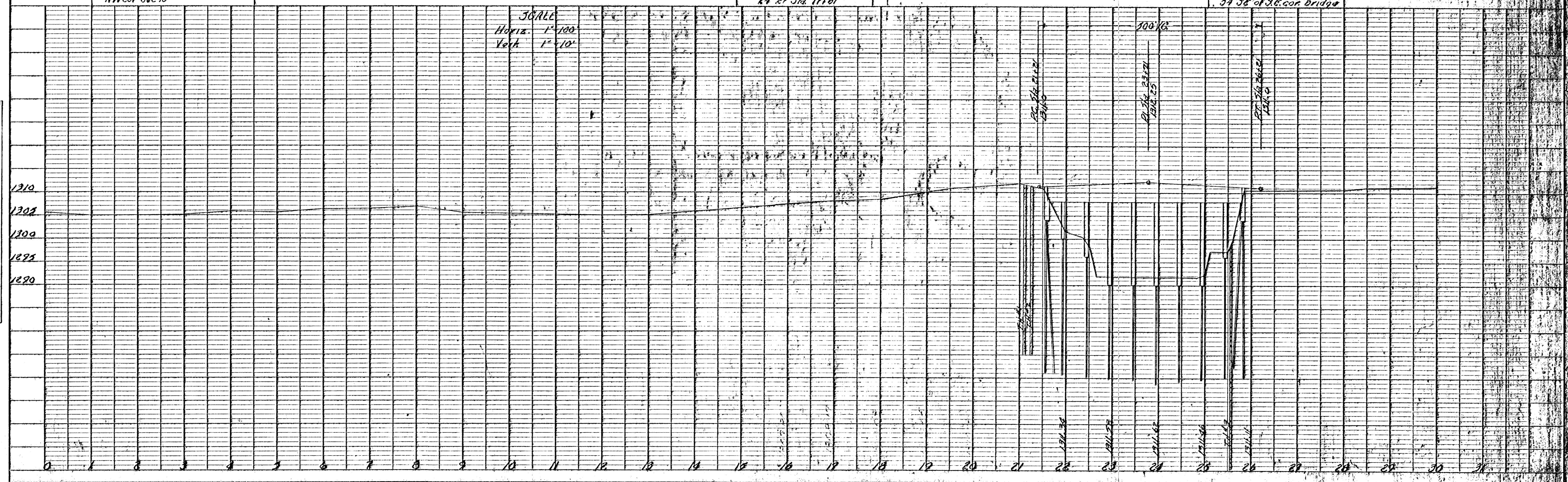


BM#1 Elevation 1305.02
Square-cut top curb 18' N 31' E
NW cor Sec 13

BM#2 Elevation 1309.80
60" Spike in Trk Pole
24' E of Sta 17+01

BM#3 Elevation 1312.13
USC 463 Standard 1924
34' SE of 36' cor Bridge

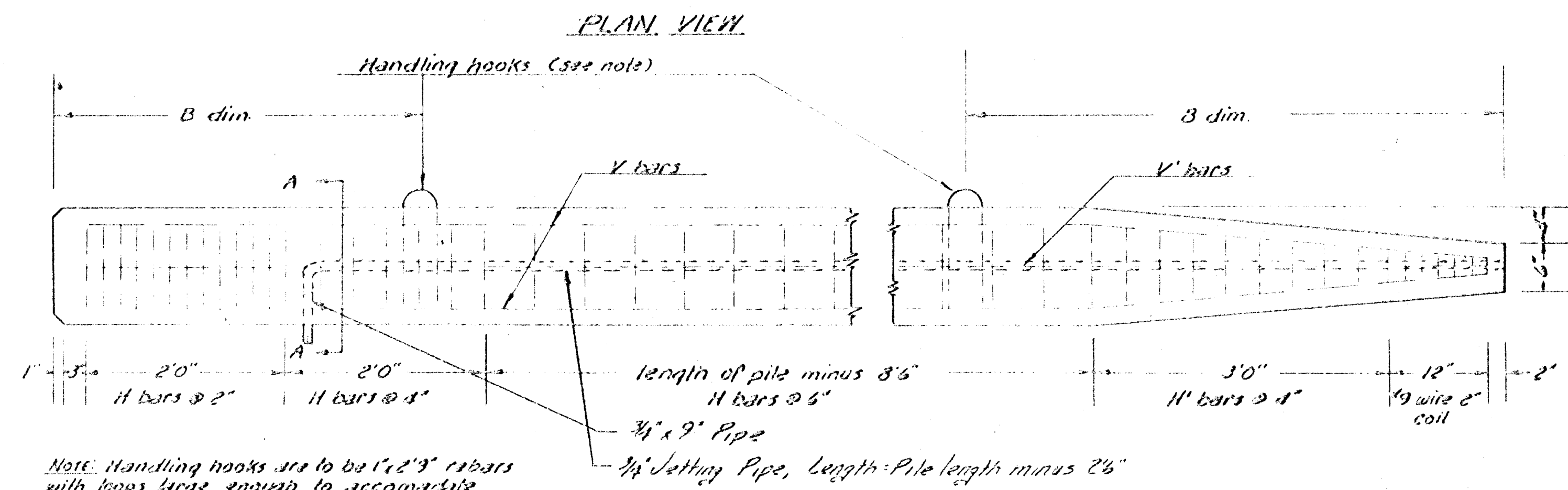
SCALE
Horiz. 1" = 100'
Vert. 1" = 10'



DATE: 12/25/34
BY: J. W. ...
REVISIONS:
1. ...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...
11. ...
12. ...
13. ...
14. ...
15. ...
16. ...
17. ...
18. ...
19. ...
20. ...
21. ...
22. ...
23. ...
24. ...
25. ...
26. ...
27. ...
28. ...
29. ...
30. ...
31. ...
32. ...
33. ...
34. ...
35. ...
36. ...
37. ...
38. ...
39. ...
40. ...
41. ...
42. ...
43. ...
44. ...
45. ...
46. ...
47. ...
48. ...
49. ...
50. ...
51. ...
52. ...
53. ...
54. ...
55. ...
56. ...
57. ...
58. ...
59. ...
60. ...
61. ...
62. ...
63. ...
64. ...
65. ...
66. ...
67. ...
68. ...
69. ...
70. ...
71. ...
72. ...
73. ...
74. ...
75. ...
76. ...
77. ...
78. ...
79. ...
80. ...
81. ...
82. ...
83. ...
84. ...
85. ...
86. ...
87. ...
88. ...
89. ...
90. ...
91. ...
92. ...
93. ...
94. ...
95. ...
96. ...
97. ...
98. ...
99. ...
100. ...

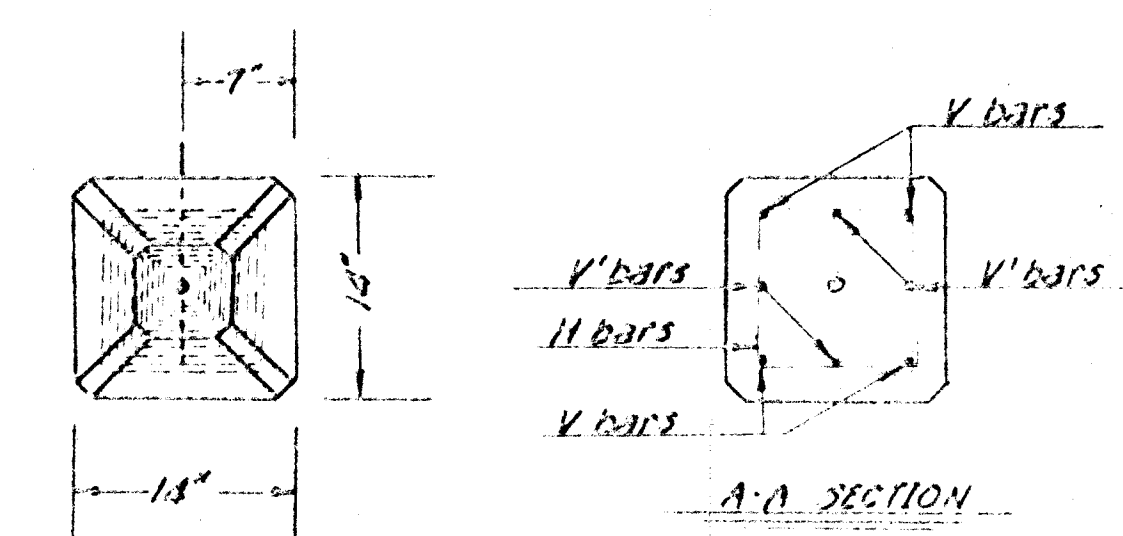
DATE: 12/25/34
BY: J. W. ...
REVISIONS:
1. ...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...
11. ...
12. ...
13. ...
14. ...
15. ...
16. ...
17. ...
18. ...
19. ...
20. ...
21. ...
22. ...
23. ...
24. ...
25. ...
26. ...
27. ...
28. ...
29. ...
30. ...
31. ...
32. ...
33. ...
34. ...
35. ...
36. ...
37. ...
38. ...
39. ...
40. ...
41. ...
42. ...
43. ...
44. ...
45. ...
46. ...
47. ...
48. ...
49. ...
50. ...
51. ...
52. ...
53. ...
54. ...
55. ...
56. ...
57. ...
58. ...
59. ...
60. ...
61. ...
62. ...
63. ...
64. ...
65. ...
66. ...
67. ...
68. ...
69. ...
70. ...
71. ...
72. ...
73. ...
74. ...
75. ...
76. ...
77. ...
78. ...
79. ...
80. ...
81. ...
82. ...
83. ...
84. ...
85. ...
86. ...
87. ...
88. ...
89. ...
90. ...
91. ...
92. ...
93. ...
94. ...
95. ...
96. ...
97. ...
98. ...
99. ...
100. ...

State	Kansas	Fiscal Year	1950	Sheet No.	11	Total Sheets	11
-------	--------	-------------	------	-----------	----	--------------	----

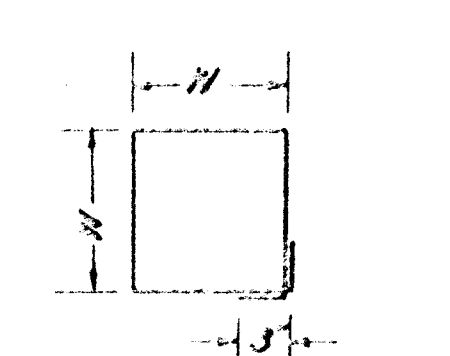
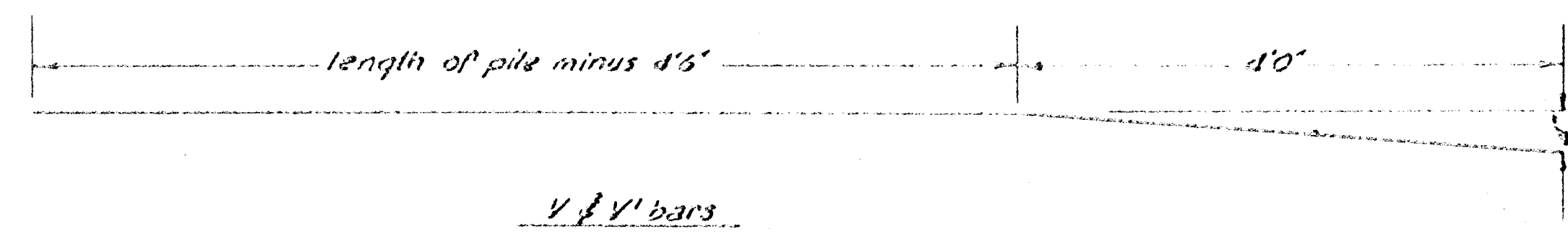


Note: Handling hooks are to be 1" x 2" x 3" c-bars with loops large enough to accommodate attaching hooks.

length of pile minus 8'6"
11 bars @ 2"
11 bars @ 4"
3/4" x 9" Pipe
1/4" Jetting Pipe, Length - Pile length minus 2'6"



BENDING DIAGRAM



W dim. in H bars = 10"
in H bars decrease by increments of 3/8"

General Notes:
Piling are to be constructed of class A concrete mix to be of such consistency that the concrete will be thoroughly compacted by tamping & vibrating. Piling are to be lifted with handling hooks (placed at B dim.) only. Top of piling must have a smooth and level surface, where not obtained in forming, surface must be treated by grinding or other suitable methods. All exposed edges are to have a 1" chamfer.
Piling should remain in forms for 14 days and cured for a minimum of 6 weeks before being driven.
Piling are to be painted with suitable coating 5' above & 5' below normal water line.
Each pile shall be stamped or marked with the date of its manufacture.
All steel shall have 2" cover unless otherwise noted.

BILL OF MATERIAL											
20" PILE						32" PILE					
Bar	V	V'	H	H'		Bar	V	V'	H	H'	
Number	4		12	9		Number	4		15	9	
Size	3/8"		3/8"	3/8"		Size	3/8"		3/8"	3/8"	
Length	200"		40"	40"		Length	320"		40"	40"	
B dim.	14"					B dim.	32"				
Total Steel	153'					Total Steel	303'				
Concrete	1.94 Cu. Yds.					Concrete	1.65 Cu. Yds.				
24" PILE						36" PILE					
Bar	V	V'	H	H'		Bar	V	V'	H	H'	
Number	4		11	9		Number	4		15	9	
Size	3/8"		3/8"	3/8"		Size	3/8"		3/8"	3/8"	
Length	240"		40"	40"		Length	360"		40"	40"	
B dim.	24"					B dim.	36"				
Total Steel	127'					Total Steel	333'				
Concrete	1.23 Cu. Yds.					Concrete	1.36 Cu. Yds.				
28" PILE						40" PILE					
Bar	V	V'	H	H'		Bar	V	V'	H	H'	
Number	4		12	9		Number	4		15	9	
Size	3/8"		3/8"	3/8"		Size	3/8"		3/8"	3/8"	
Length	280"		40"	40"		Length	400"		40"	40"	
B dim.	28"					B dim.	40"				
Total Steel	211'					Total Steel	415'				
Concrete	1.45 Cu. Yds.					Concrete	2.04 Cu. Yds.				

CONCRETE PILING
14" X 14"

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
H. J. GREELY COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=10'	Baskett	Manion	7/2/50	
		DATE	12-31	12-17-49	
PLANFILE					TOTAL SHEETS

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		1950	I	II

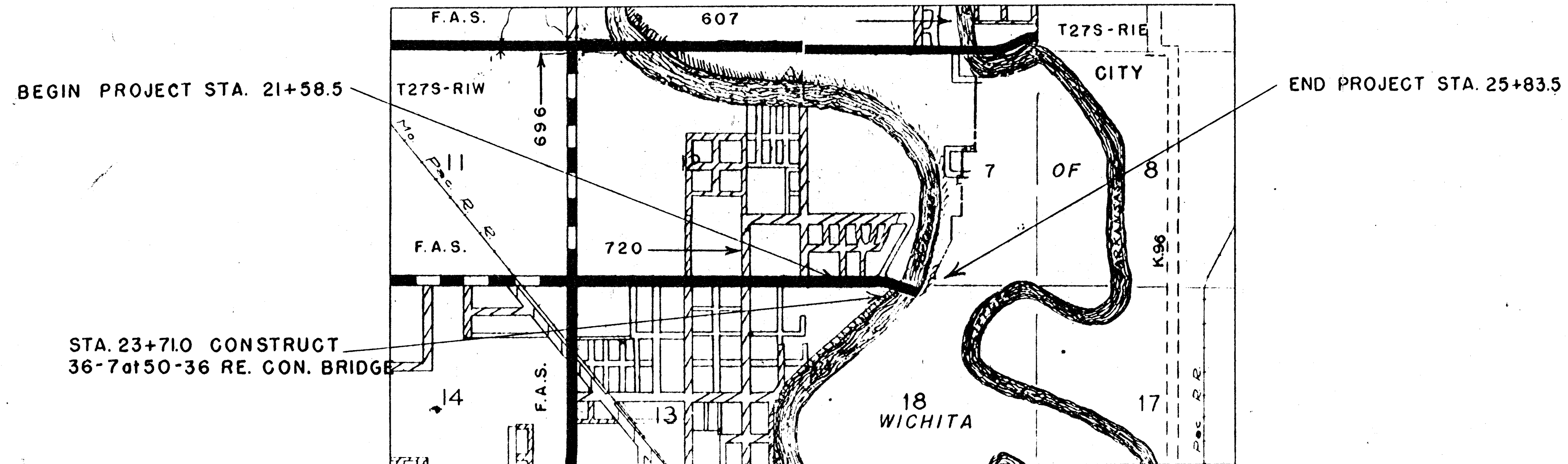


INDEX OF SHEETS

SHEET NO 1	TITLE SHEET
2	PLAN & PROFILE
3	TOPOGRAPHY
4	CONSTRUCTION LAYOUT
5-6	SLAB & GIRDER DETAIL
7	ABUTMENT DETAIL
8	PIER DETAIL
9	AUXILIARY DETAIL
10	LIGHTING DETAIL
11	PILING DETAIL

BRIDGE NO. 616-25-2371

6,158 V.P.D. 1950



2687201
2687491

CONVENTIONAL SIGNS

- COUNTY LINE
- SECTION LINE
- WIRE FENCE
- HEDGE ROW
- RAILROADS
- SURVEY LINE
- RIGHT OF WAY
- TELEPHONE POLE
- POWER POLE
- TRAVELED WAY

NET LENGTH OF PROJECT	425.0	FT.	.08	MILES
NET LENGTH OF BRIDGES	425.0	FT.	.08	MILES
NET LENGTH OF ROAD		FT.		MILES
EXCEPTIONS		FT.		MILES
ADDITONS		FT.		MILES
GROSS LENGTH OF PROJECT		FT.		MILES

PLANS PREPARED BY

DATE

APPROVED *Walter Johnson* DATE 12-18-50

ENGINEER OF SECONDARY ROADS

APPROVED

Rufus Cook
COUNTY ENGINEER

DATE 12-14-50

APPROVED *R. Keeling* DATE 12-18-50

STATE HIGHWAY ENGINEER

13th Street
616-25

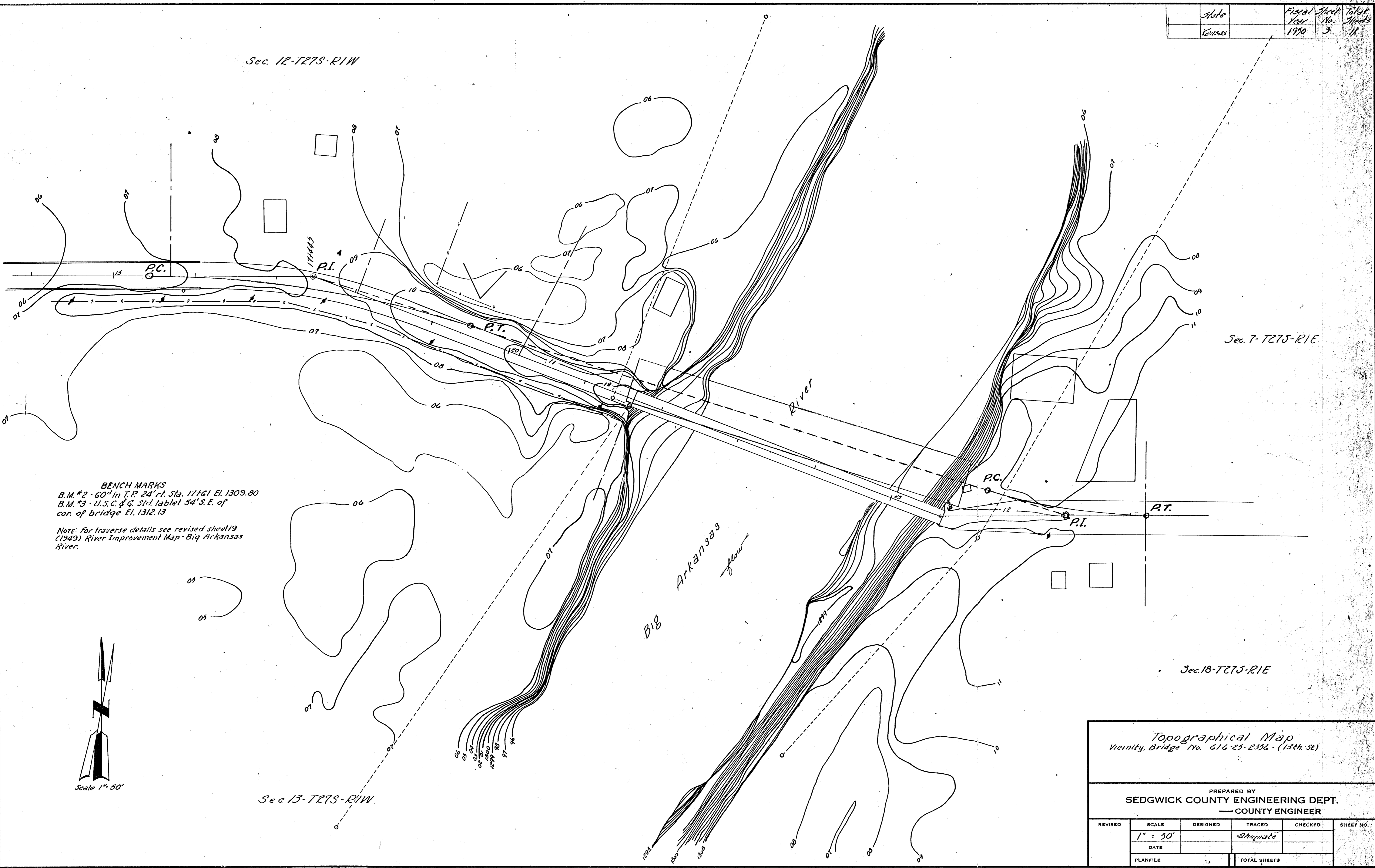
State	Fiscal Year	Sheet No.	Total Sheets
Kansas	1990	3	11

Sec. 12-T275-RIW

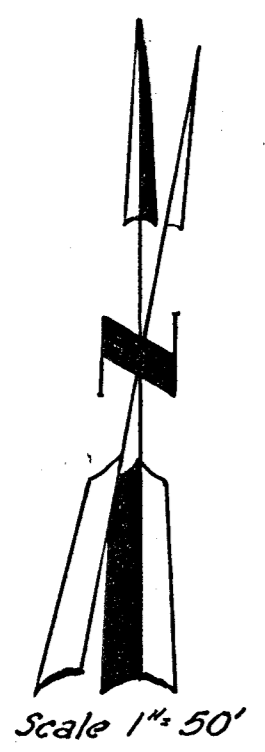
Sec. 7-T275-RIE

Sec. 18-T275-RIE

Sec. 13-T275-RIW



BENCH MARKS
 B.M. #2 - 60' in T.P. 24' rt. Sta. 17+61 El. 1309.80
 B.M. #3 - U.S.C. & G. Std. label 54' S.E. of cor. of bridge El. 1312.13
 Note: for traverse details see revised sheet 19 (1949) River Improvement Map - Big Arkansas River.

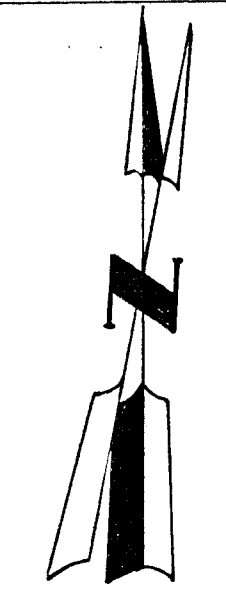
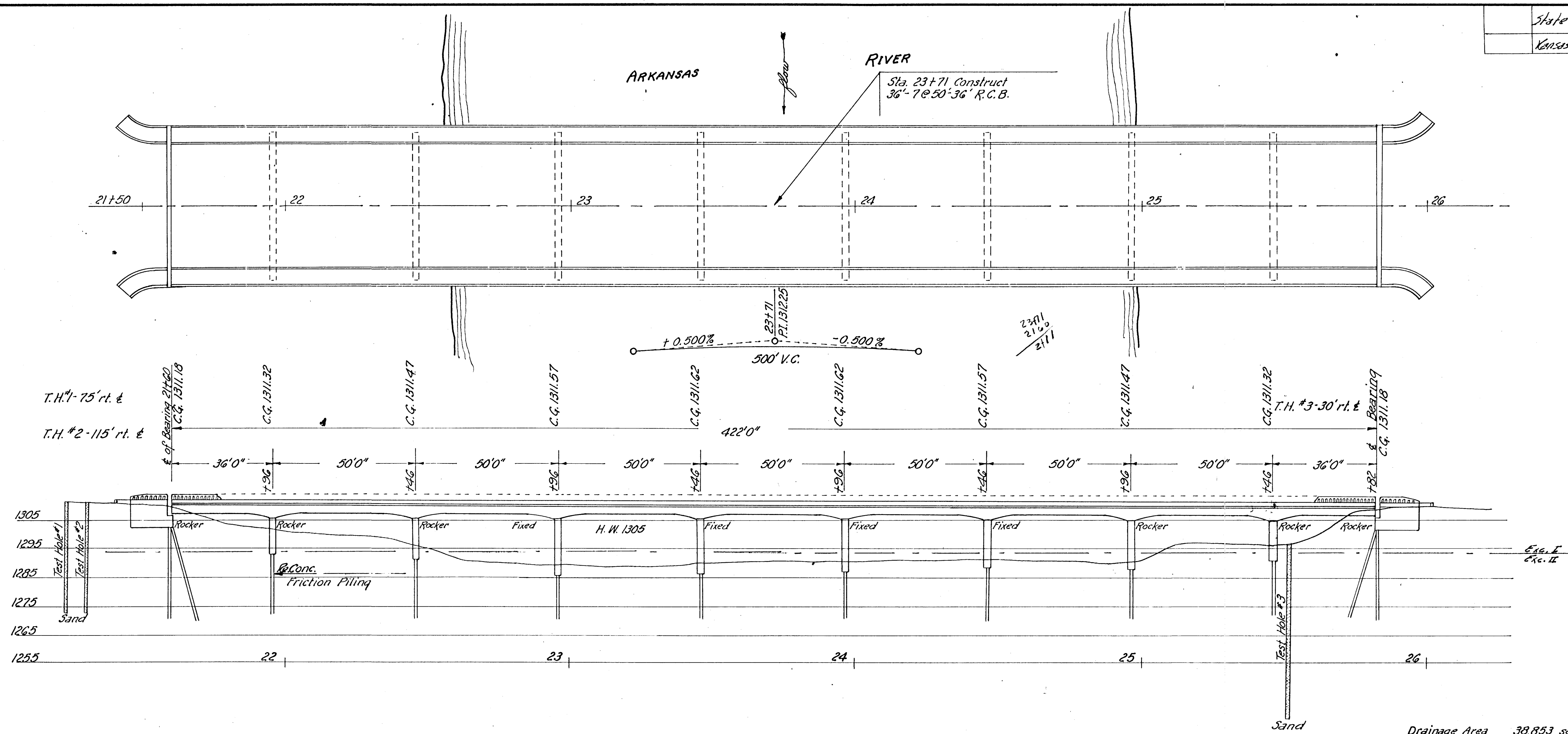


Topographical Map
 Vicinity, Bridge No. 616-25-2396 - (13th St.)

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
 COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1" = 50'		Shymate		
	DATE				
	PLANFILE		TOTAL SHEETS		

State	Fiscal Year	Sheet No.	Total Sheets
Kansas	1970	4	11



PLAN AND ELEVATION

36'-7@50'-36' CONTINUOUS CONCRETE SPANS ON CONCRETE ENCASED STEEL TYPE BENT PIERS, 48' ROADWAY OPEN ABUTMENTS, 4' SIDEWALKS.

BENCH MARKS

B.M. #2 60' in T.P. 24' rt. Sta. 17+61 Elev. 1309.80
 B.M. #3 U.S.C. & G.S. std. tablet 54' S.E. of S.E. cor. of bri. Elev. 1312.13

Drainage Area 38,853 sq. mi.
 Discharge 26,000 c.f.s.
 Waterway 4,920 sq. ft.

SUMMARY OF QUANTITIES

Excavation Class I	407 cu. yds.
Excavation Class II	324 cu. yds.
Concrete Class A (AE)	1707.5 cu. yds.
Reinforcing Steel	270,034 lbs.
Structural Steel	
Bearing Devices	27,612 lbs.
Re. Conc. Piling	7,980 lin. ft.
Cast Iron	1574 lbs.
2" Conduit	926 lin. ft.

GENERAL NOTES

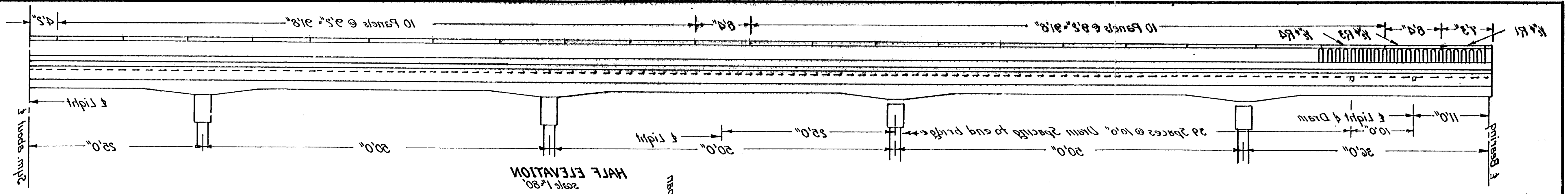
DESIGN: A.A.S.H.O. for H-20-44 Loading.
 20,000 p.s.i. Reinforcing Steel (int. gr.)
 1,000 p.s.i. Concrete.
 OLD STRUCTURE: To be removed by SEDGWICK COUNTY.
 SOUNDINGS: Taken with 1/2" jet by SEDGWICK COUNTY.
 EMBANKMENT: The embankment at the abutments shall be built after completion of the abutments.
 PILING: Conc. piling shall be driven to a computed bearing value of twenty eight tons per pile. Piling shall be driven to a minimum depth of thirty feet below the bottom of the encasements.
 LIGHTING: Conduit, pull boxes and pole anchor bolts to be installed at time of construction. Poles, wiring etc. to be installed at a later date, and are not a part of this project.

CONSTRUCTION LAYOUT
BRIDGE NO. 616-25-2371

PREPARED BY
 SEDGWICK COUNTY ENGINEERING DEPT.
 COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=20'	M.E.S.	R.W.M.		
	DATE				
PLANFILE		TOTAL SHEETS			

Sheet	1
Year	1939
Project	

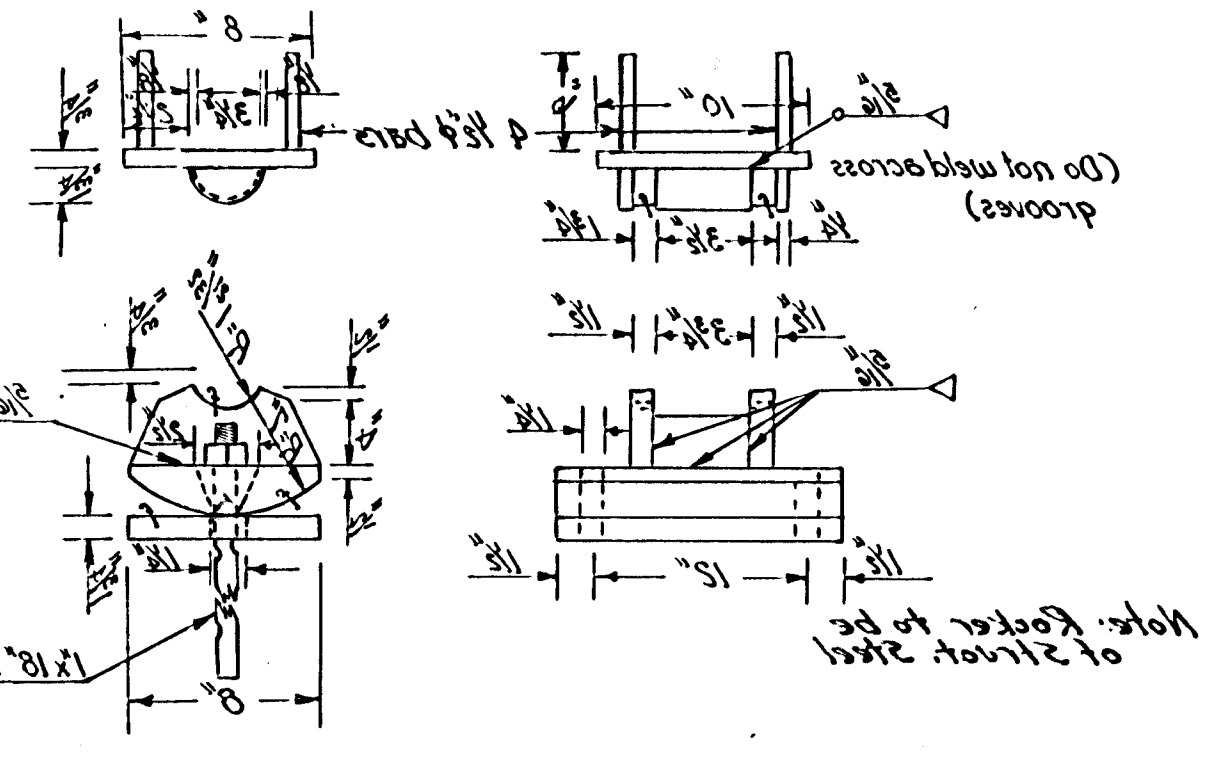


SUMMARY OF QUANTITIES
 SPANNING SUPERSTRUCTURE
 1065 Cu Yds
 241,830 Lbs
 1374 Lbs
 27,615 Lbs
 Rocker Steel
 Cast Iron
 Reinforcing Steel
 Concrete Class A (A3)

GENERAL NOTES

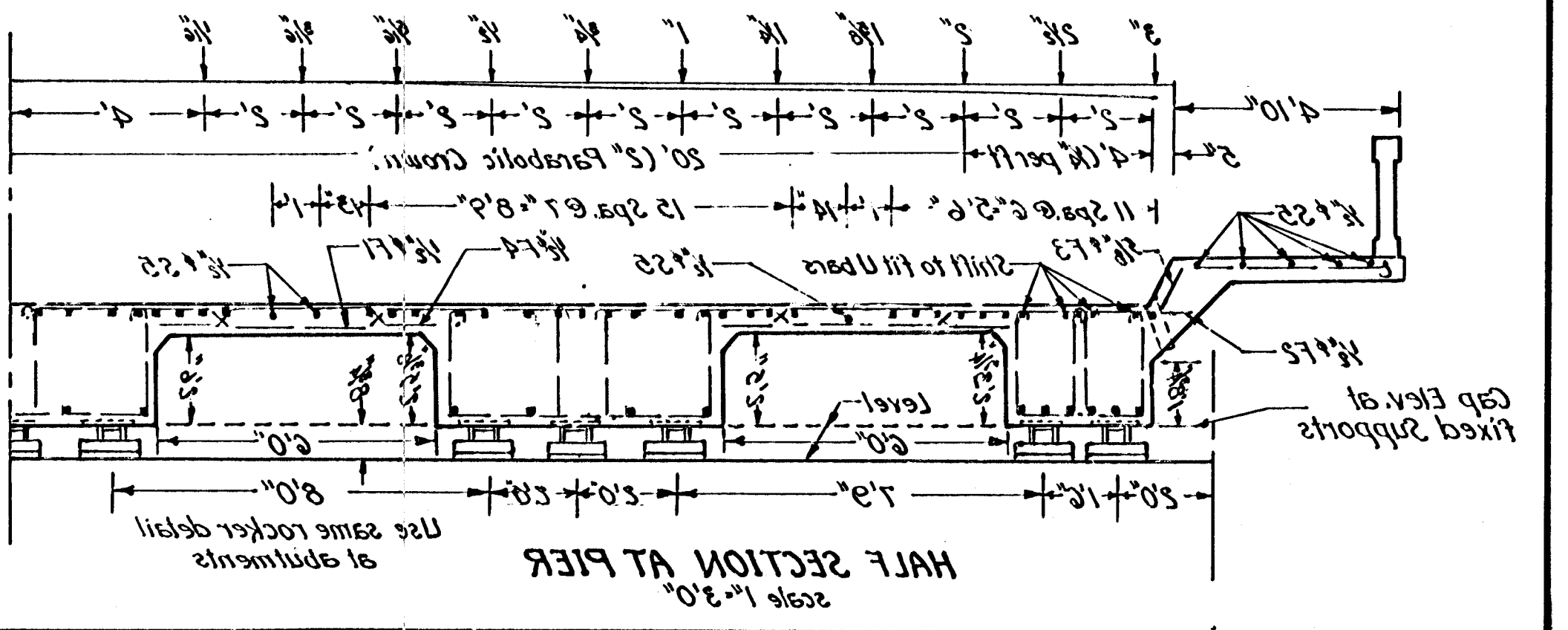
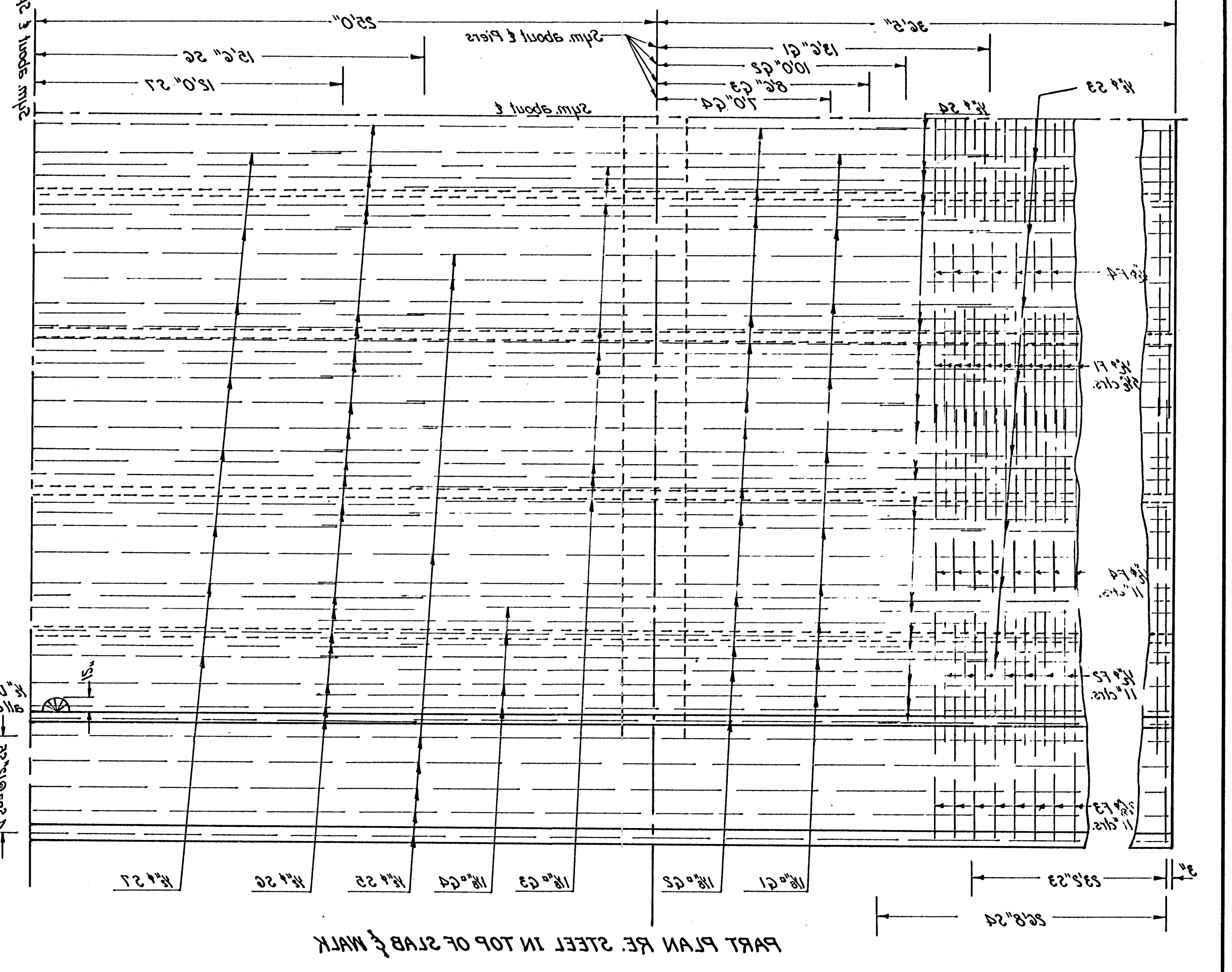
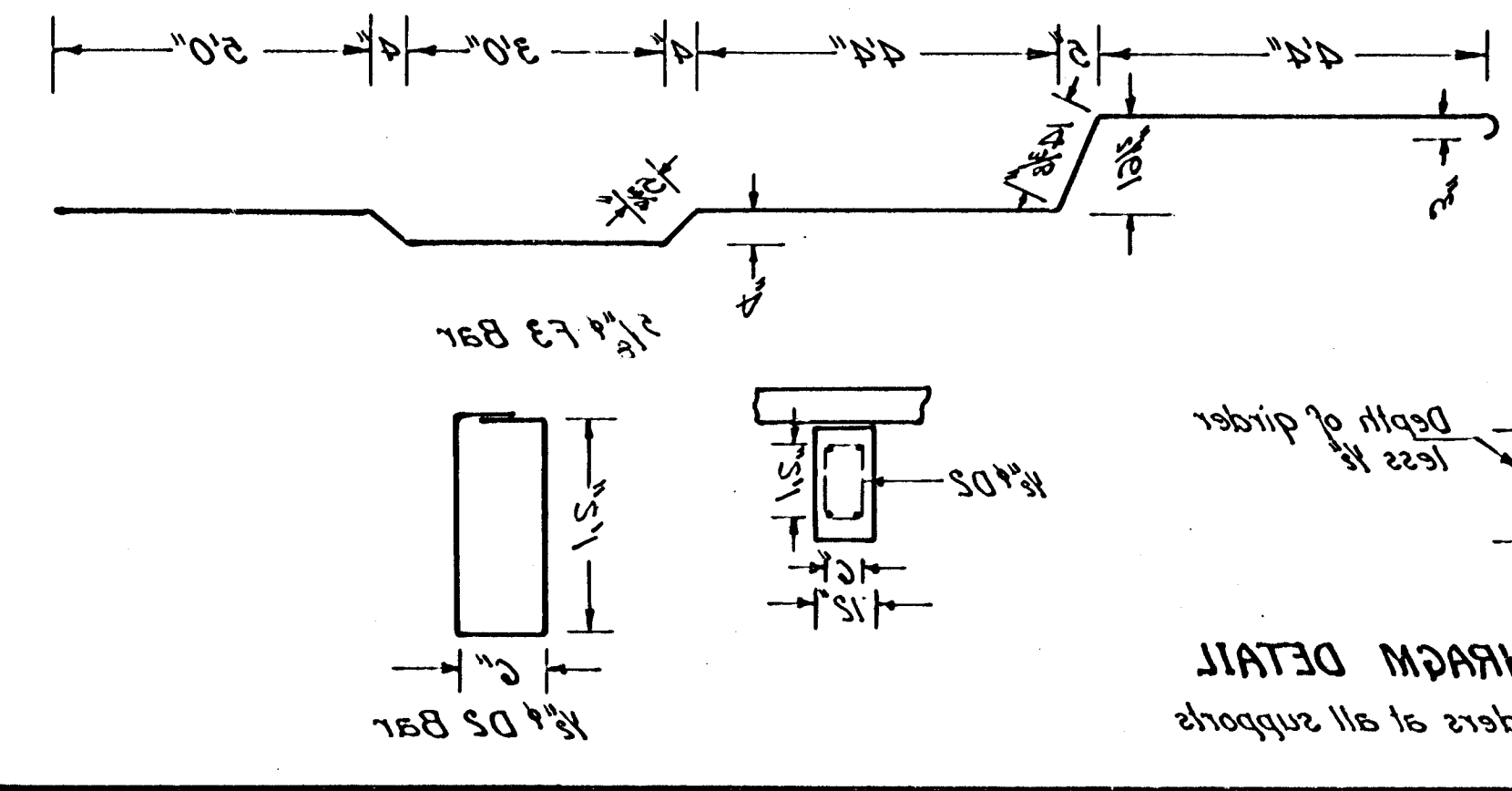
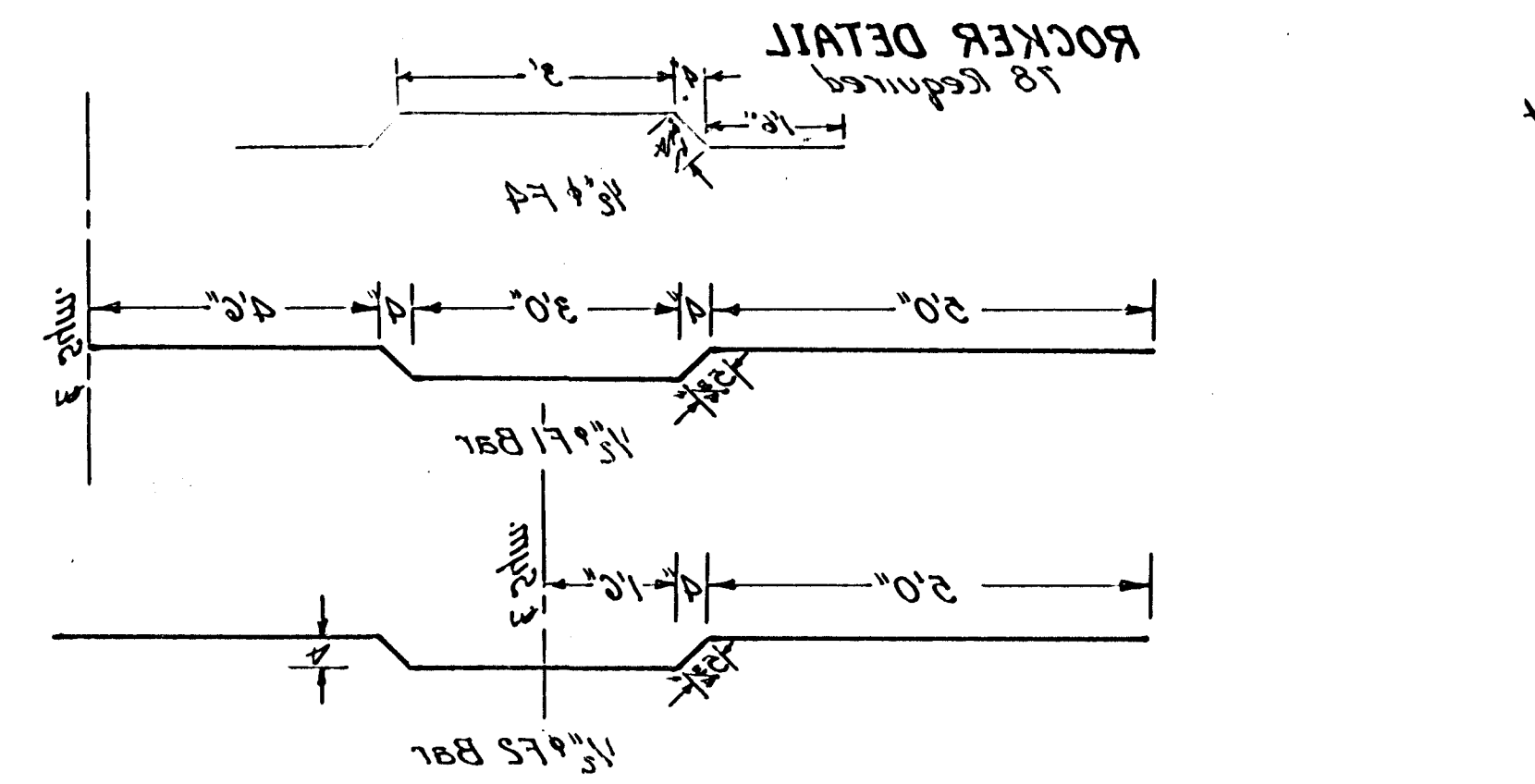
Loadings: H-20-44 A.A.S.H.O.
 Design Stress: $f_c = 18,000$ p.s.i.; $f_s = 10,000$ p.s.i.; $n = 10$
 Concrete: Class A (A3) to be used throughout. Bewel
 Reinforcing Steel
 Cast Iron
 Rocker Steel
 All exposed edges with $\frac{1}{2}$ " Δ moulding unless otherwise noted.
 Lateral bracing shall be in place for entire unit until all the concrete has attained its design strength. Construction joints shown on sheet No. are optional with the Bridge Contractor but if used shall be made only at the locations shown or as approved by the Engineer. Pouring sequence to be designated by Engineer subject to type of framework used by Bridge Contractor.
 Field Paint: All accessible parts of cast iron drains and rockers shall receive one coat of tinted aluminum paint followed by one coat of aluminum paint after erection. The same shall apply to lift pull boxes.

CAST IRON DRAIN



TOP OF SLAB & WALK

BAR	SIZE	NO.	LENGTH	WEIGHT
1	1/2" F4	10	21.0	18.78
2	1/2" F4	20	20.0	15.88
3	1/2" F4	14	11.0	10.50
4	1/2" F4	14	11.0	10.50
5	1/2" F4	14	11.0	10.50
6	1/2" F4	14	11.0	10.50
7	1/2" F4	14	11.0	10.50
8	1/2" F4	14	11.0	10.50
9	1/2" F4	14	11.0	10.50
10	1/2" F4	14	11.0	10.50
11	1/2" F4	14	11.0	10.50
12	1/2" F4	14	11.0	10.50
13	1/2" F4	14	11.0	10.50
14	1/2" F4	14	11.0	10.50
15	1/2" F4	14	11.0	10.50
16	1/2" F4	14	11.0	10.50
17	1/2" F4	14	11.0	10.50
18	1/2" F4	14	11.0	10.50
19	1/2" F4	14	11.0	10.50
20	1/2" F4	14	11.0	10.50
21	1/2" F4	14	11.0	10.50
22	1/2" F4	14	11.0	10.50
23	1/2" F4	14	11.0	10.50
24	1/2" F4	14	11.0	10.50
25	1/2" F4	14	11.0	10.50
26	1/2" F4	14	11.0	10.50
27	1/2" F4	14	11.0	10.50
28	1/2" F4	14	11.0	10.50
29	1/2" F4	14	11.0	10.50
30	1/2" F4	14	11.0	10.50
31	1/2" F4	14	11.0	10.50
32	1/2" F4	14	11.0	10.50
33	1/2" F4	14	11.0	10.50
34	1/2" F4	14	11.0	10.50
35	1/2" F4	14	11.0	10.50
36	1/2" F4	14	11.0	10.50
37	1/2" F4	14	11.0	10.50
38	1/2" F4	14	11.0	10.50
39	1/2" F4	14	11.0	10.50
40	1/2" F4	14	11.0	10.50
41	1/2" F4	14	11.0	10.50
42	1/2" F4	14	11.0	10.50
43	1/2" F4	14	11.0	10.50
44	1/2" F4	14	11.0	10.50
45	1/2" F4	14	11.0	10.50
46	1/2" F4	14	11.0	10.50
47	1/2" F4	14	11.0	10.50
48	1/2" F4	14	11.0	10.50
49	1/2" F4	14	11.0	10.50
50	1/2" F4	14	11.0	10.50
51	1/2" F4	14	11.0	10.50
52	1/2" F4	14	11.0	10.50
53	1/2" F4	14	11.0	10.50
54	1/2" F4	14	11.0	10.50
55	1/2" F4	14	11.0	10.50
56	1/2" F4	14	11.0	10.50
57	1/2" F4	14	11.0	10.50
58	1/2" F4	14	11.0	10.50
59	1/2" F4	14	11.0	10.50
60	1/2" F4	14	11.0	10.50
61	1/2" F4	14	11.0	10.50
62	1/2" F4	14	11.0	10.50
63	1/2" F4	14	11.0	10.50
64	1/2" F4	14	11.0	10.50
65	1/2" F4	14	11.0	10.50
66	1/2" F4	14	11.0	10.50
67	1/2" F4	14	11.0	10.50
68	1/2" F4	14	11.0	10.50
69	1/2" F4	14	11.0	10.50
70	1/2" F4	14	11.0	10.50
71	1/2" F4	14	11.0	10.50
72	1/2" F4	14	11.0	10.50
73	1/2" F4	14	11.0	10.50
74	1/2" F4	14	11.0	10.50
75	1/2" F4	14	11.0	10.50
76	1/2" F4	14	11.0	10.50
77	1/2" F4	14	11.0	10.50
78	1/2" F4	14	11.0	10.50
79	1/2" F4	14	11.0	10.50
80	1/2" F4	14	11.0	10.50
81	1/2" F4	14	11.0	10.50
82	1/2" F4	14	11.0	10.50
83	1/2" F4	14	11.0	10.50
84	1/2" F4	14	11.0	10.50
85	1/2" F4	14	11.0	10.50
86	1/2" F4	14	11.0	10.50
87	1/2" F4	14	11.0	10.50
88	1/2" F4	14	11.0	10.50
89	1/2" F4	14	11.0	10.50
90	1/2" F4	14	11.0	10.50
91	1/2" F4	14	11.0	10.50
92	1/2" F4	14	11.0	10.50
93	1/2" F4	14	11.0	10.50
94	1/2" F4	14	11.0	10.50
95	1/2" F4	14	11.0	10.50
96	1/2" F4	14	11.0	10.50
97	1/2" F4	14	11.0	10.50
98	1/2" F4	14	11.0	10.50
99	1/2" F4	14	11.0	10.50
100	1/2" F4	14	11.0	10.50

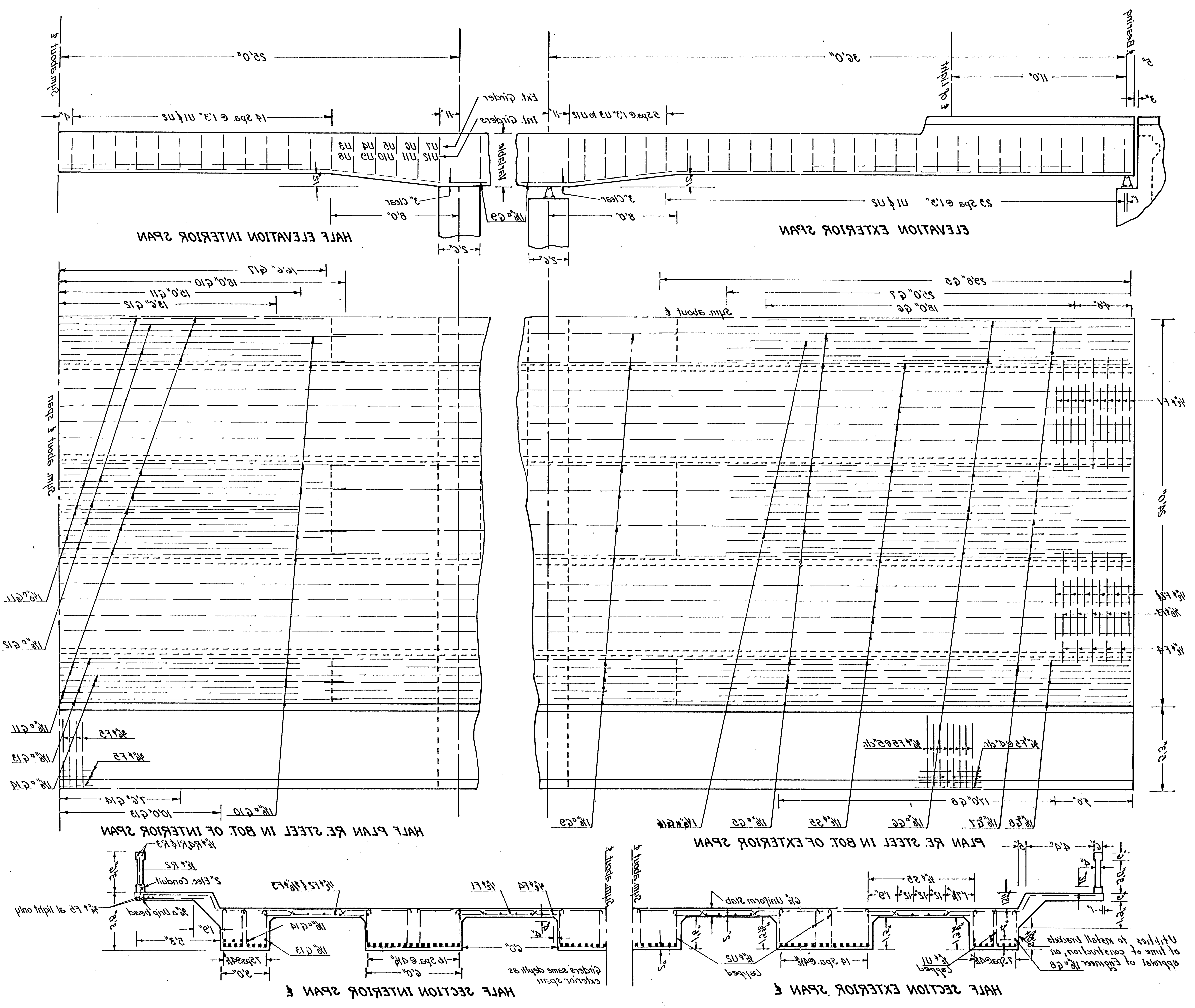


BRIDGE NO. 616-25-2311
SLAB AND GIRDER DETAILS

PREPARED BY
 COUNTY ENGINEER
 SEDGWICK COUNTY ENGINEERING DEPT.

REVISIONS	SCALE	DESIGNED	CHECKED	SHEET NO.
1-20-39	Noted	MES	F.W.M.	
	DATE			
	PLANT			
	TOTAL SHEETS			

10/21	10/21	10/21	10/21
10/21	10/21	10/21	10/21
10/21	10/21	10/21	10/21
10/21	10/21	10/21	10/21



STEEL TABLE

BAR	NO.	WEIGHT	LENGTH	REMARKS
18" C10	10	1.10	100.00	
18" C11	11	1.10	100.00	
18" C12	12	1.10	100.00	
18" C13	13	1.10	100.00	
18" C14	14	1.10	100.00	
18" C15	15	1.10	100.00	
18" C16	16	1.10	100.00	
18" C17	17	1.10	100.00	
18" C18	18	1.10	100.00	
18" C19	19	1.10	100.00	
18" C20	20	1.10	100.00	
18" C21	21	1.10	100.00	
18" C22	22	1.10	100.00	
18" C23	23	1.10	100.00	
18" C24	24	1.10	100.00	
18" C25	25	1.10	100.00	
18" C26	26	1.10	100.00	
18" C27	27	1.10	100.00	
18" C28	28	1.10	100.00	
18" C29	29	1.10	100.00	
18" C30	30	1.10	100.00	
18" C31	31	1.10	100.00	
18" C32	32	1.10	100.00	
18" C33	33	1.10	100.00	
18" C34	34	1.10	100.00	
18" C35	35	1.10	100.00	
18" C36	36	1.10	100.00	
18" C37	37	1.10	100.00	
18" C38	38	1.10	100.00	
18" C39	39	1.10	100.00	
18" C40	40	1.10	100.00	
18" C41	41	1.10	100.00	
18" C42	42	1.10	100.00	
18" C43	43	1.10	100.00	
18" C44	44	1.10	100.00	
18" C45	45	1.10	100.00	
18" C46	46	1.10	100.00	
18" C47	47	1.10	100.00	
18" C48	48	1.10	100.00	
18" C49	49	1.10	100.00	
18" C50	50	1.10	100.00	
18" C51	51	1.10	100.00	
18" C52	52	1.10	100.00	
18" C53	53	1.10	100.00	
18" C54	54	1.10	100.00	
18" C55	55	1.10	100.00	
18" C56	56	1.10	100.00	
18" C57	57	1.10	100.00	
18" C58	58	1.10	100.00	
18" C59	59	1.10	100.00	
18" C60	60	1.10	100.00	
18" C61	61	1.10	100.00	
18" C62	62	1.10	100.00	
18" C63	63	1.10	100.00	
18" C64	64	1.10	100.00	
18" C65	65	1.10	100.00	
18" C66	66	1.10	100.00	
18" C67	67	1.10	100.00	
18" C68	68	1.10	100.00	
18" C69	69	1.10	100.00	
18" C70	70	1.10	100.00	
18" C71	71	1.10	100.00	
18" C72	72	1.10	100.00	
18" C73	73	1.10	100.00	
18" C74	74	1.10	100.00	
18" C75	75	1.10	100.00	
18" C76	76	1.10	100.00	
18" C77	77	1.10	100.00	
18" C78	78	1.10	100.00	
18" C79	79	1.10	100.00	
18" C80	80	1.10	100.00	
18" C81	81	1.10	100.00	
18" C82	82	1.10	100.00	
18" C83	83	1.10	100.00	
18" C84	84	1.10	100.00	
18" C85	85	1.10	100.00	
18" C86	86	1.10	100.00	
18" C87	87	1.10	100.00	
18" C88	88	1.10	100.00	
18" C89	89	1.10	100.00	
18" C90	90	1.10	100.00	
18" C91	91	1.10	100.00	
18" C92	92	1.10	100.00	
18" C93	93	1.10	100.00	
18" C94	94	1.10	100.00	
18" C95	95	1.10	100.00	
18" C96	96	1.10	100.00	
18" C97	97	1.10	100.00	
18" C98	98	1.10	100.00	
18" C99	99	1.10	100.00	
18" C100	100	1.10	100.00	

BRIDGE NO. 616-25-2371
SLAB AND GIRDER DETAILS

REVISIONS	SCALE	DESIGNED	CHECKED	SHEET NO.
1. 10-20-20	1" = 30'	W.S.	W.S.	1
2. 10-20-20	1" = 30'	W.S.	W.S.	1
3. 10-20-20	1" = 30'	W.S.	W.S.	1
4. 10-20-20	1" = 30'	W.S.	W.S.	1
5. 10-20-20	1" = 30'	W.S.	W.S.	1
6. 10-20-20	1" = 30'	W.S.	W.S.	1
7. 10-20-20	1" = 30'	W.S.	W.S.	1
8. 10-20-20	1" = 30'	W.S.	W.S.	1
9. 10-20-20	1" = 30'	W.S.	W.S.	1
10. 10-20-20	1" = 30'	W.S.	W.S.	1
11. 10-20-20	1" = 30'	W.S.	W.S.	1
12. 10-20-20	1" = 30'	W.S.	W.S.	1
13. 10-20-20	1" = 30'	W.S.	W.S.	1
14. 10-20-20	1" = 30'	W.S.	W.S.	1
15. 10-20-20	1" = 30'	W.S.	W.S.	1
16. 10-20-20	1" = 30'	W.S.	W.S.	1
17. 10-20-20	1" = 30'	W.S.	W.S.	1
18. 10-20-20	1" = 30'	W.S.	W.S.	1
19. 10-20-20	1" = 30'	W.S.	W.S.	1
20. 10-20-20	1" = 30'	W.S.	W.S.	1
21. 10-20-20	1" = 30'	W.S.	W.S.	1
22. 10-20-20	1" = 30'	W.S.	W.S.	1
23. 10-20-20	1" = 30'	W.S.	W.S.	1
24. 10-20-20	1" = 30'	W.S.	W.S.	1
25. 10-20-20	1" = 30'	W.S.	W.S.	1
26. 10-20-20	1" = 30'	W.S.	W.S.	1
27. 10-20-20	1" = 30'	W.S.	W.S.	1
28. 10-20-20	1" = 30'	W.S.	W.S.	1
29. 10-20-20	1" = 30'	W.S.	W.S.	1
30. 10-20-20	1" = 30'	W.S.	W.S.	1
31. 10-20-20	1" = 30'	W.S.	W.S.	1
32. 10-20-20	1" = 30'	W.S.	W.S.	1
33. 10-20-20	1" = 30'	W.S.	W.S.	1
34. 10-20-20	1" = 30'	W.S.	W.S.	1
35. 10-20-20	1" = 30'	W.S.	W.S.	1
36. 10-20-20	1" = 30'	W.S.	W.S.	1
37. 10-20-20	1" = 30'	W.S.	W.S.	1
38. 10-20-20	1" = 30'	W.S.	W.S.	1
39. 10-20-20	1" = 30'	W.S.	W.S.	1
40. 10-20-20	1" = 30'	W.S.	W.S.	1
41. 10-20-20	1" = 30'	W.S.	W.S.	1
42. 10-20-20	1" = 30'	W.S.	W.S.	1
43. 10-20-20	1" = 30'	W.S.	W.S.	1
44. 10-20-20	1" = 30'	W.S.	W.S.	1
45. 10-20-20	1" = 30'	W.S.	W.S.	1
46. 10-20-20	1" = 30'	W.S.	W.S.	1
47. 10-20-20	1" = 30'	W.S.	W.S.	1
48. 10-20-20	1" = 30'	W.S.	W.S.	1
49. 10-20-20	1" = 30'	W.S.	W.S.	1
50. 10-20-20	1" = 30'	W.S.	W.S.	1
51. 10-20-20	1" = 30'	W.S.	W.S.	1
52. 10-20-20	1" = 30'	W.S.	W.S.	1
53. 10-20-20	1" = 30'	W.S.	W.S.	1
54. 10-20-20	1" = 30'	W.S.	W.S.	1
55. 10-20-20	1" = 30'	W.S.	W.S.	1
56. 10-20-20	1" = 30'	W.S.	W.S.	1
57. 10-20-20	1" = 30'	W.S.	W.S.	1
58. 10-20-20	1" = 30'	W.S.	W.S.	1
59. 10-20-20	1" = 30'	W.S.	W.S.	1
60. 10-20-20	1" = 30'	W.S.	W.S.	1
61. 10-20-20	1" = 30'	W.S.	W.S.	1
62. 10-20-20	1" = 30'	W.S.	W.S.	1
63. 10-20-20	1" = 30'	W.S.	W.S.	1
64. 10-20-20	1" = 30'	W.S.	W.S.	1
65. 10-20-20	1" = 30'	W.S.	W.S.	1
66. 10-20-20	1" = 30'	W.S.	W.S.	1
67. 10-20-20	1" = 30'	W.S.	W.S.	1
68. 10-20-20	1" = 30'	W.S.	W.S.	1
69. 10-20-20	1" = 30'	W.S.	W.S.	1
70. 10-20-20	1" = 30'	W.S.	W.S.	1
71. 10-20-20	1" = 30'	W.S.	W.S.	1
72				

STEEL TABLE
(one abut.)

Bar	Space	No.	Size	Length	Wt.	Revised Weight	
Aw	11"	36	1/2"	12'-4"	297	296.5	
Bw	12"	12	"	14'-11"	120	119.6	
Cw	12"	10	"	13'-3"	89	88.5	
Dw*	12"	76	"	10'-0"	508	475.0	
Ew	12"	6	"	6'-10"	27	27.4	
Fw	12"	14	"	14'-2"	133	132.7	
Gw	12"	6	"	9'-1"	37	36.4	
Hbt	12"	58	"	10'-5"	202	406.4	
Ib	12"	48	"	2'-10"	91	90.7	
Jb	4"	4	"	25'-0"	67	66.8	
Kb	12"	40	"	30'-0"	802	801.60	
Lb		4	"	7'-1"	19	18.92	
R		4	"	12'-0"	32	32.1	
Total					3625	2424	2592.3*

QUANTITIES per ABUTMENT
 Cu. yd. Concrete 48.0
 Bearing Devices 10
 L.F. Friction Piling 140

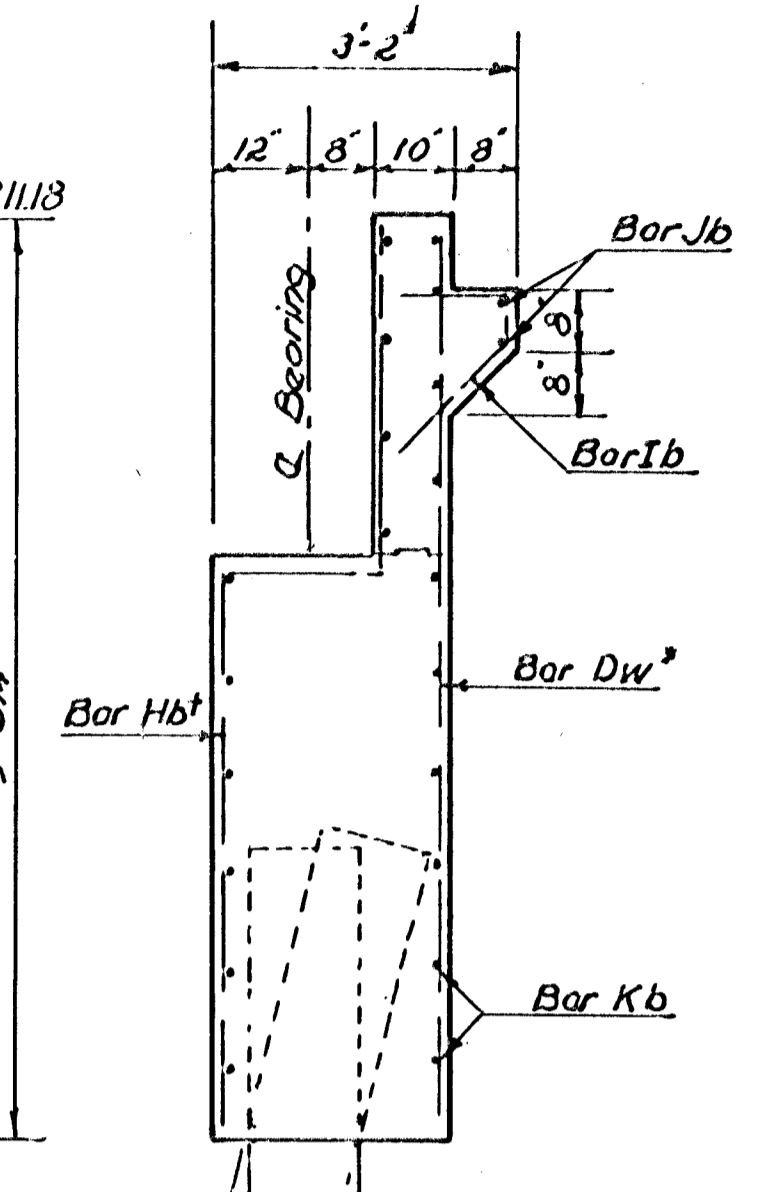
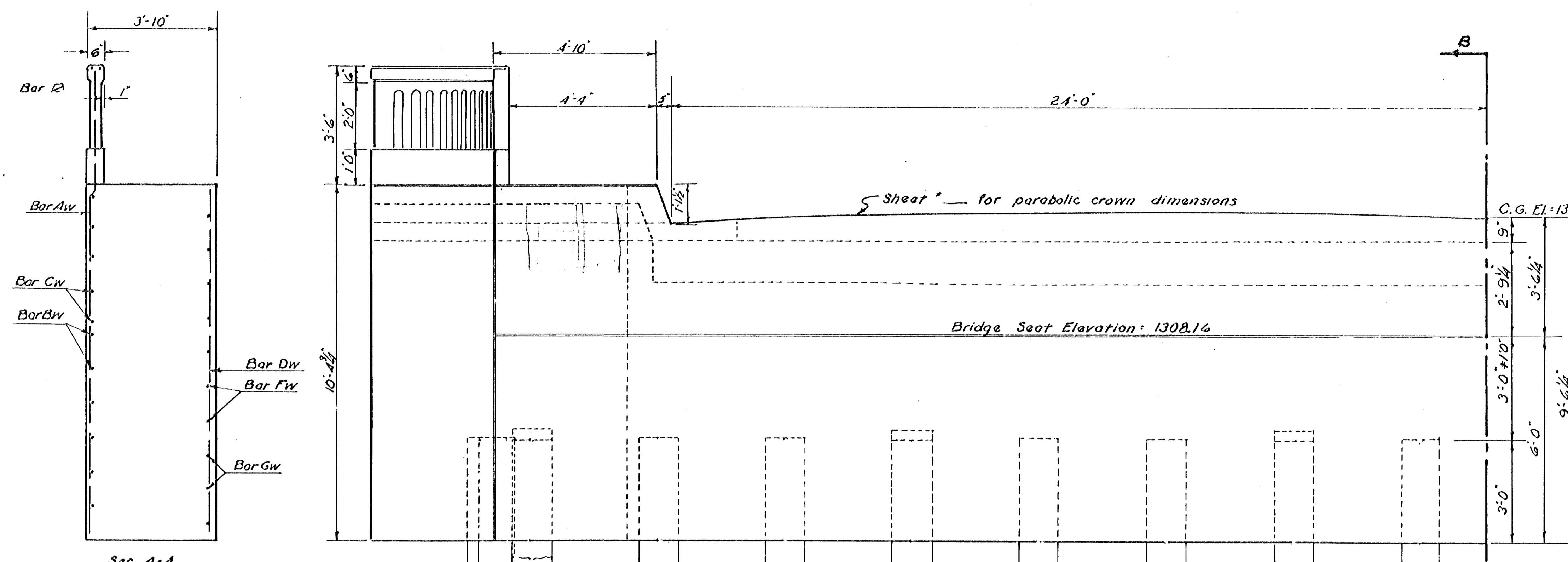
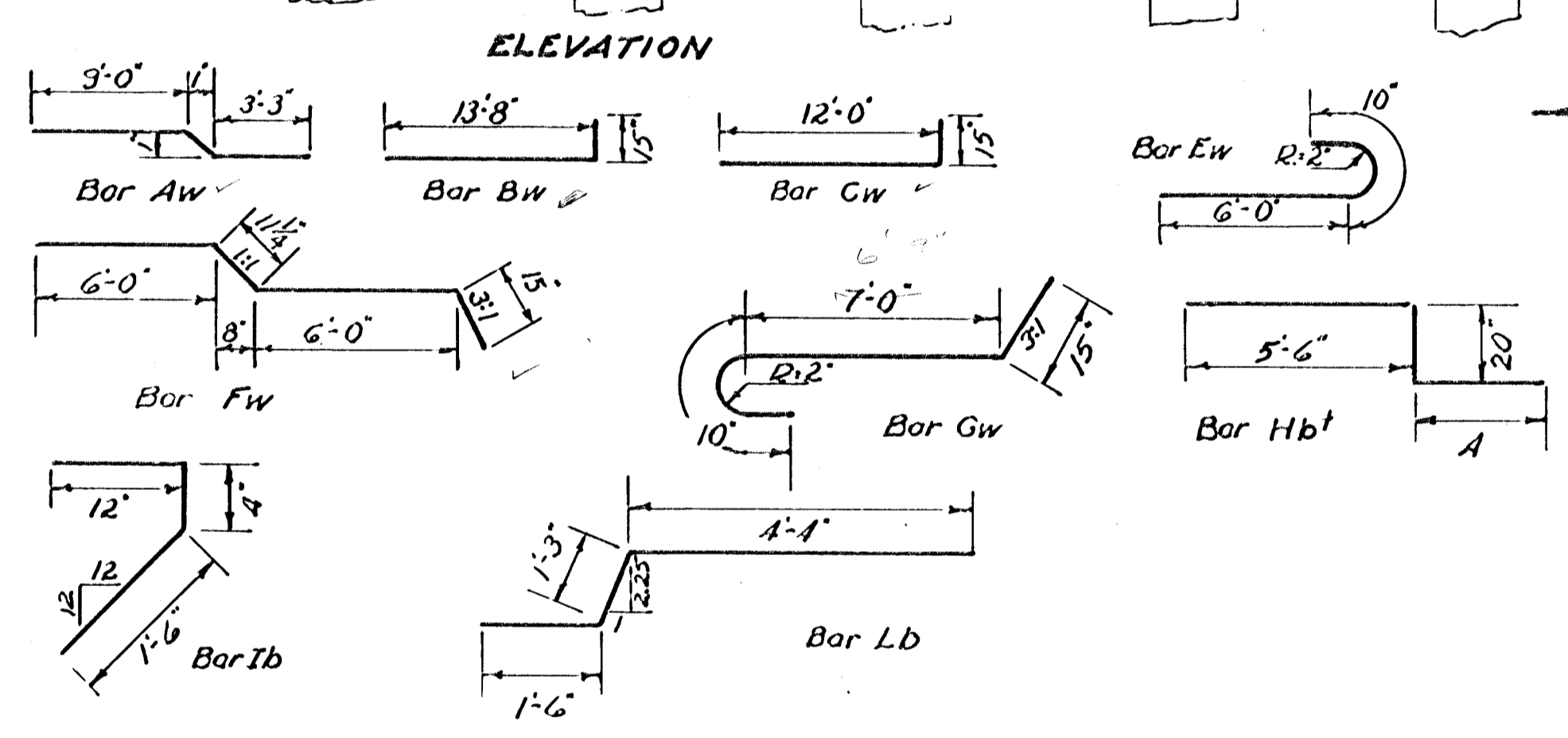
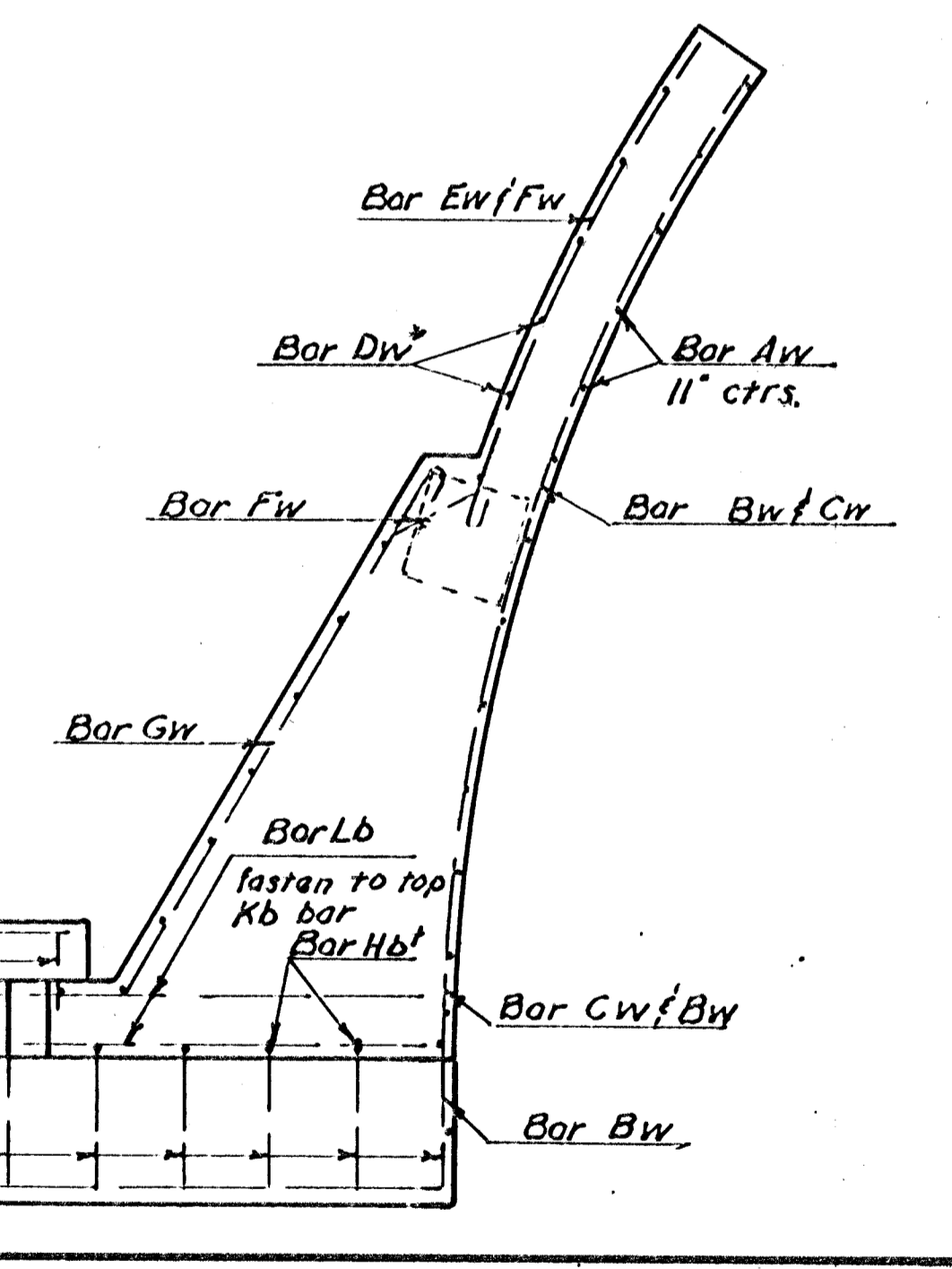


TABLE of Hb f Dw BAR
(for one abutment)

No. Cut	A Dim.	No. Cut	Overall L.
8	3'-3"	28	10'-0"
8	3'-2 1/2"	8	9'-1"
8	3'-2"	8	9'-0 1/2"
8	3'-1 1/2"	8	9'-0"
8	3'-1"	8	8'-11 1/2"
8	3'-1/2"	8	8'-11"
10	4'-2"	8	8'-10 1/2"



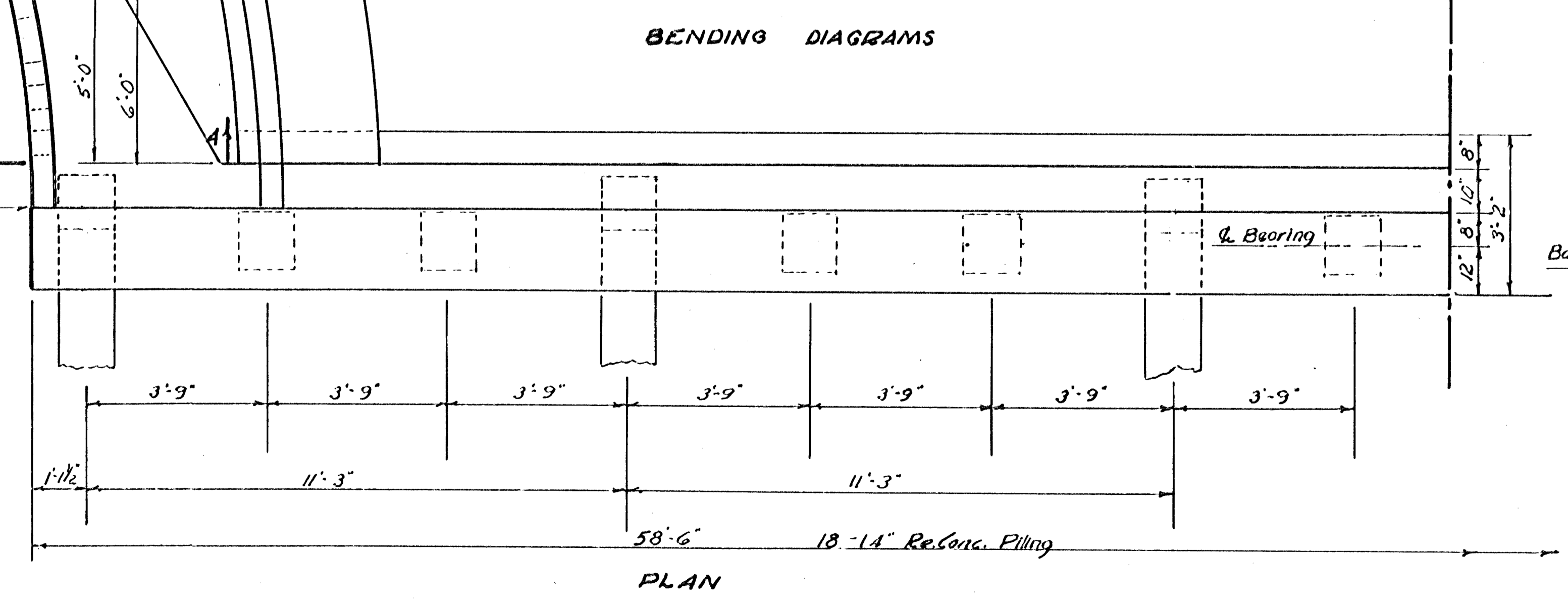
GENERAL NOTES
 Bearing plates to be spaced as those for pier. (see sheet 10)
 Piling to be driven to a computed bearing value of 28 tons and at least 31'-6" below the bridge seat.
 Bevel all exposed edges with 3/4" Δ molding.
 Concrete to be class A (or)

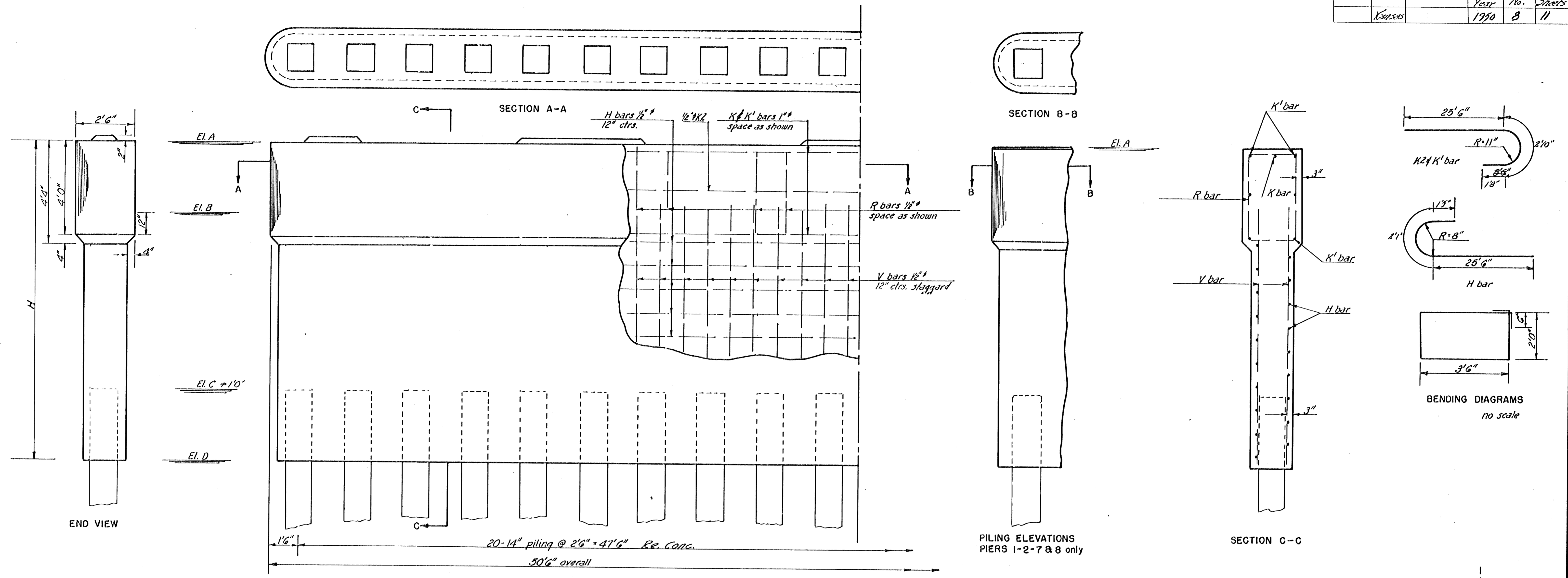


ABUTMENT DETAIL
 BRIDGE NO. 616-25-2371

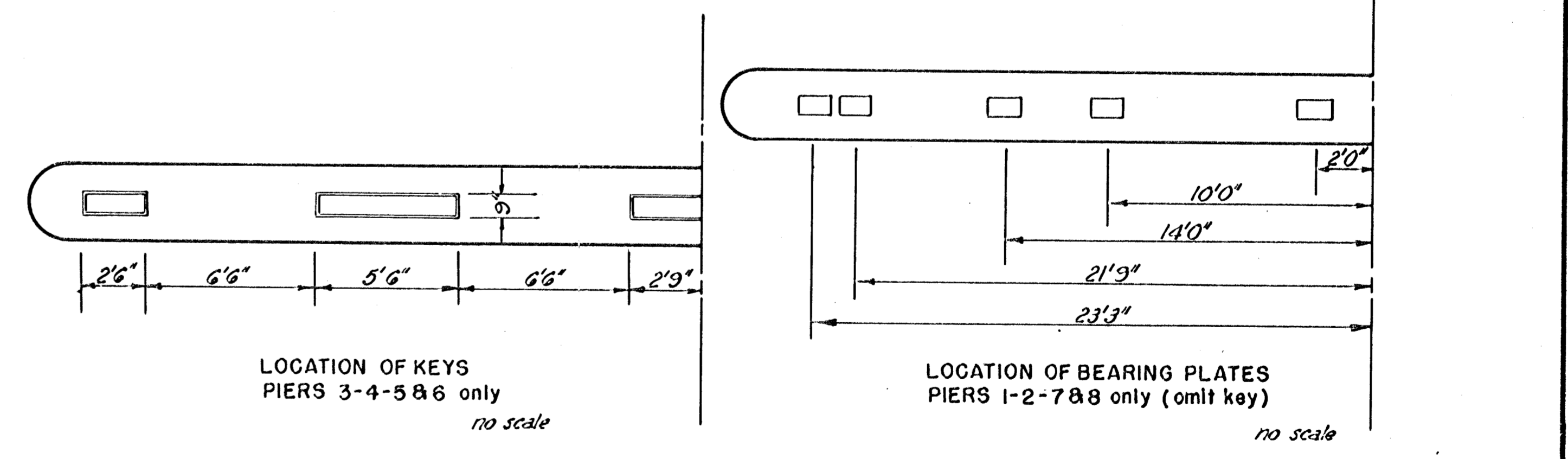
PREPARED BY
 SEDGWICK COUNTY ENGINEERING DEPT.
 Rufus S. Kirk — COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1/2" = 1'-0"	M.S.J.R.J.	R.J.		
	DATE				
	10-20-50				
PLANFILE	TOTAL SHEETS				





PIER	TABLE of ELEVATIONS				TABLE of STEEL								QUANTITIES				GENERAL NOTES						
	ELEVATION A	ELEVATION B	ELEVATION C	ELEVATION D	Number 1/2" R bars	Length 15" R bars	Number 1" K bars	Length 1" K bars	Number 1" K' bars	Length 1" K' bars	Number 1/2" V bars	Length 1/2" V bars	Number 1/2" H bars	Length 1/2" H bars	8"x10"x14" Bearing PL	L.F. Test Pile		L.F. Friction Pile	Cu. Yds. Concrete	Lbs. Re-bars			
#1	1307.55	1304.55	1297.55	1294.55	40	120	2	266	8	340	51	106	26	500	10	406	810	49.62	2351	13	4	300	1728.3
#2	1307.70	1304.70	1294.70	1291.70	40	120	2	266	8	340	51	136	32	500	10	0	0	59.70	2854	16	4	300	2146.7
#3	1308.53	1305.53	1289.53	1286.53	40	120	2	266	8	340	51	196	14	500	0	0	0	80.13	3253	22	4	0	2583.6
#4	1308.58	1305.58	1290.58	1287.58	40	120	2	266	8	340	51	186	12	500	0	0	0	76.74	3153	21	4	0	2510.8
#5	1308.58	1305.58	1291.58	1288.58	40	120	2	266	8	340	51	176	10	500	0	406	0	73.35	3060	20	4	0	2437.9
#6	1308.53	1303.53	1291.53	1288.53	40	120	2	266	8	340	51	176	10	500	0	0	0	73.35	3060	20	4	0	2437.9
#7	1307.70	1304.70	1290.70	1287.70	40	120	2	266	8	340	51	176	10	500	10	0	0	73.35	3060	20	4	0	2437.9
#8	1307.55	1304.55	1293.55	1290.55	40	120	2	266	8	340	51	146	34	500	10	406	0	63.18	2751	17	4	0	2219.5
TOTALS					40	1216	29	266	8	340	51	146	34	500	10	406	0	63.18	2751	17	4	0	18,702.6

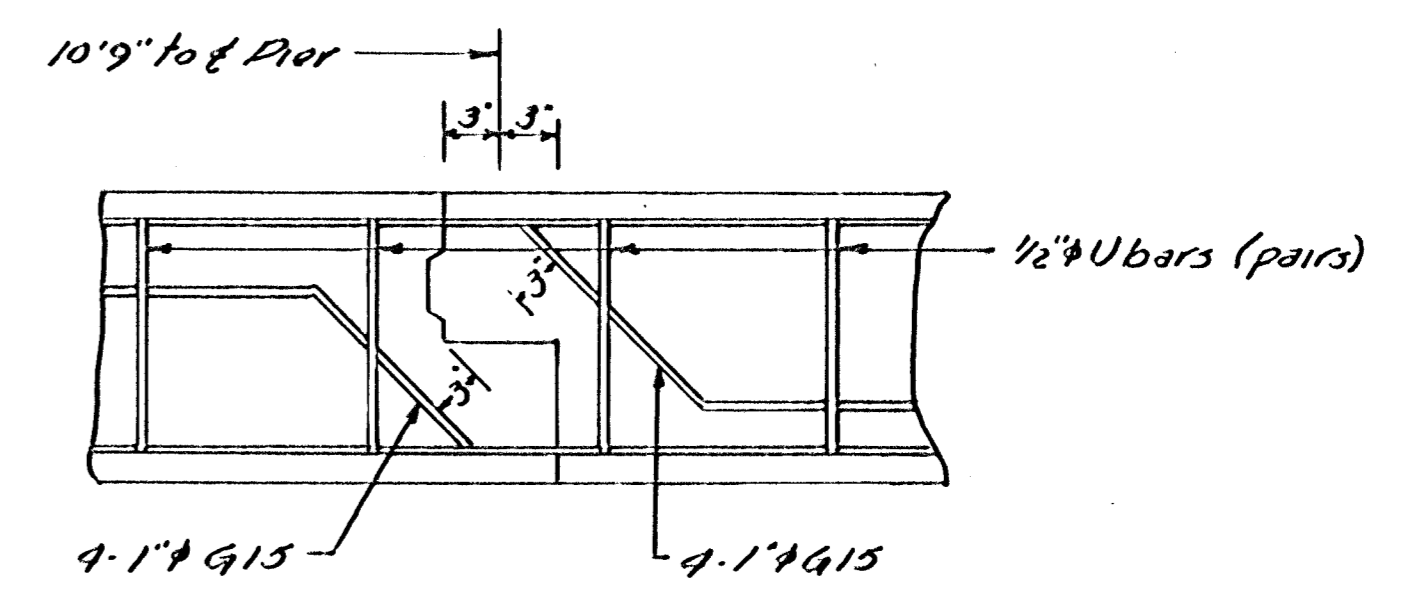
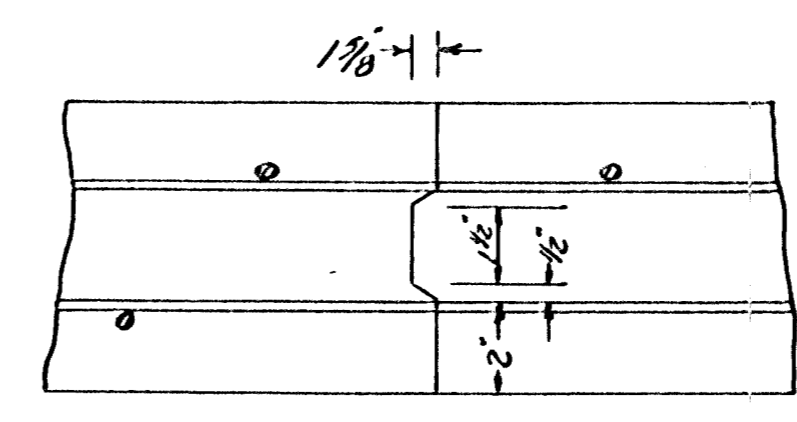
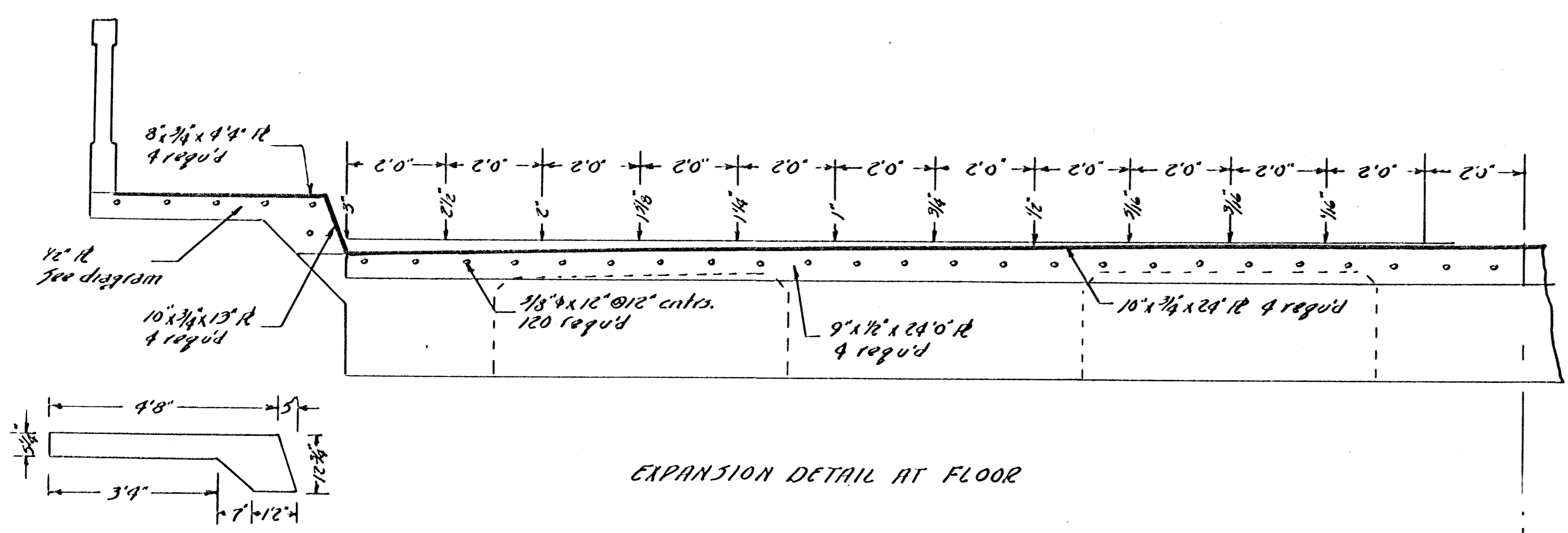


PIER DETAILS
BRIDGE No. 616-25-2371

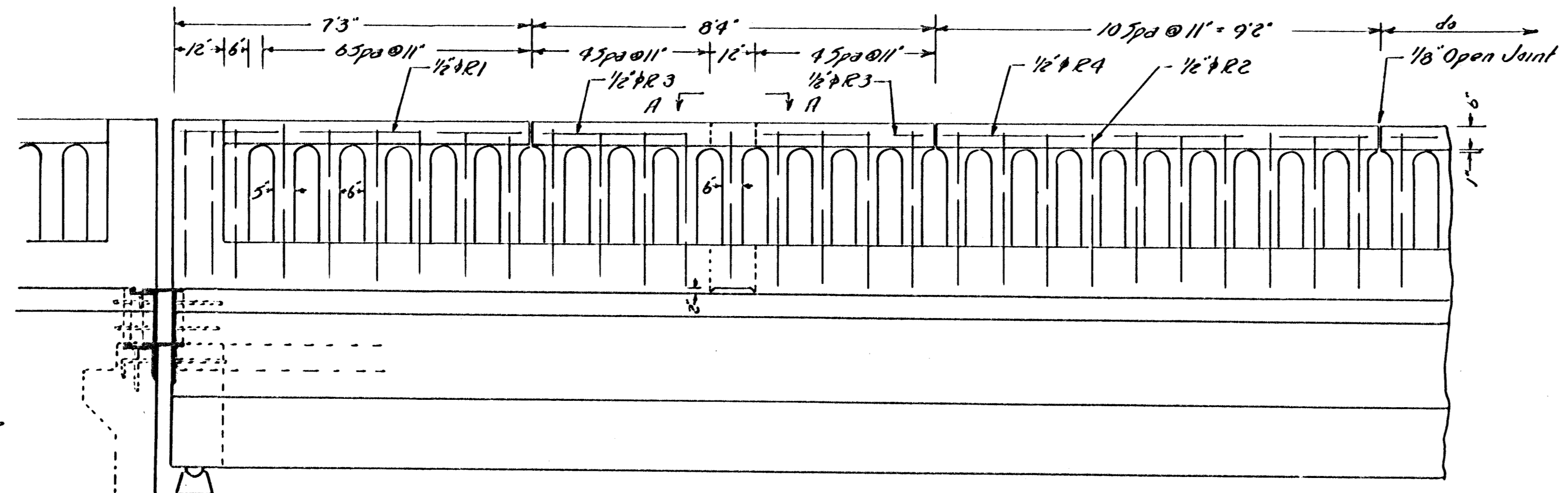
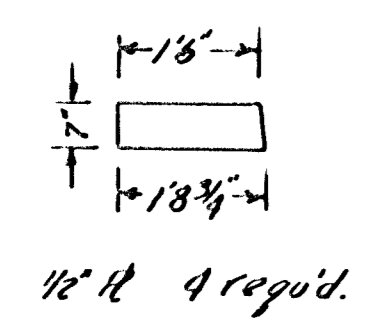
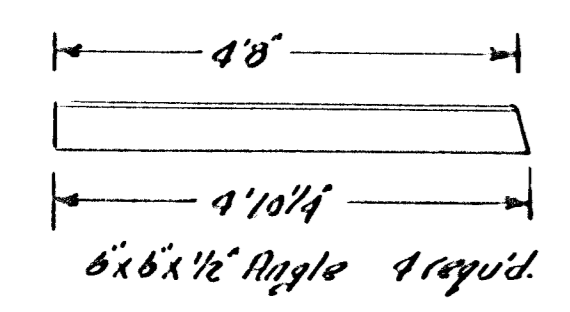
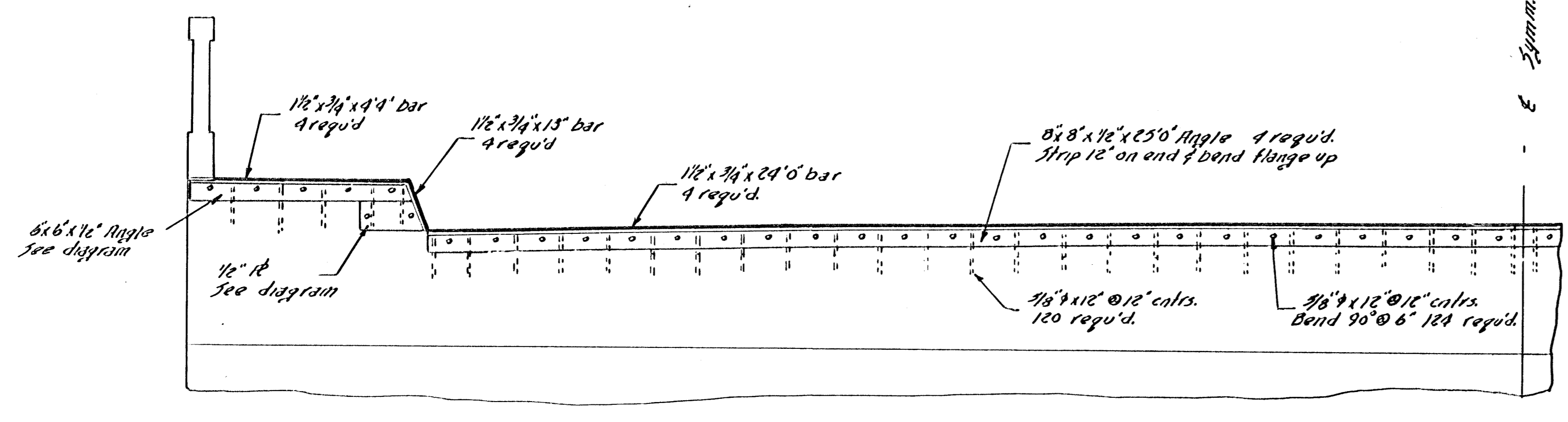
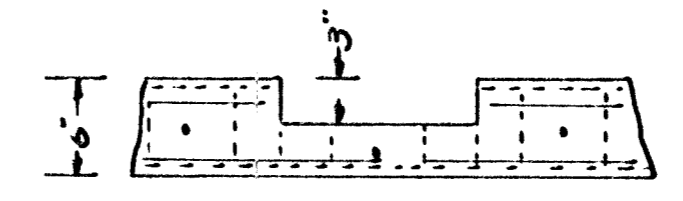
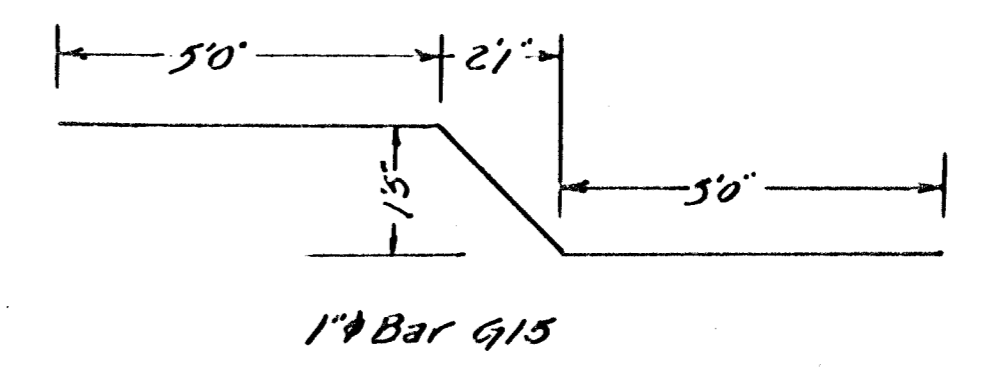
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
 COUNTY ENGINEER

REVISED 11-70-145	SCALE 1/2" = 1'0"	DESIGNED M.S. & R.J.	TRACED R.M.	CHECKED	SHEET NO.
DATE					
PLANFILE	TOTAL SHEETS				

State	Figural Year	Sheet No.	Total Sheets
Kansas	1990	9	11



CONSTRUCTION JOINT DETAILS



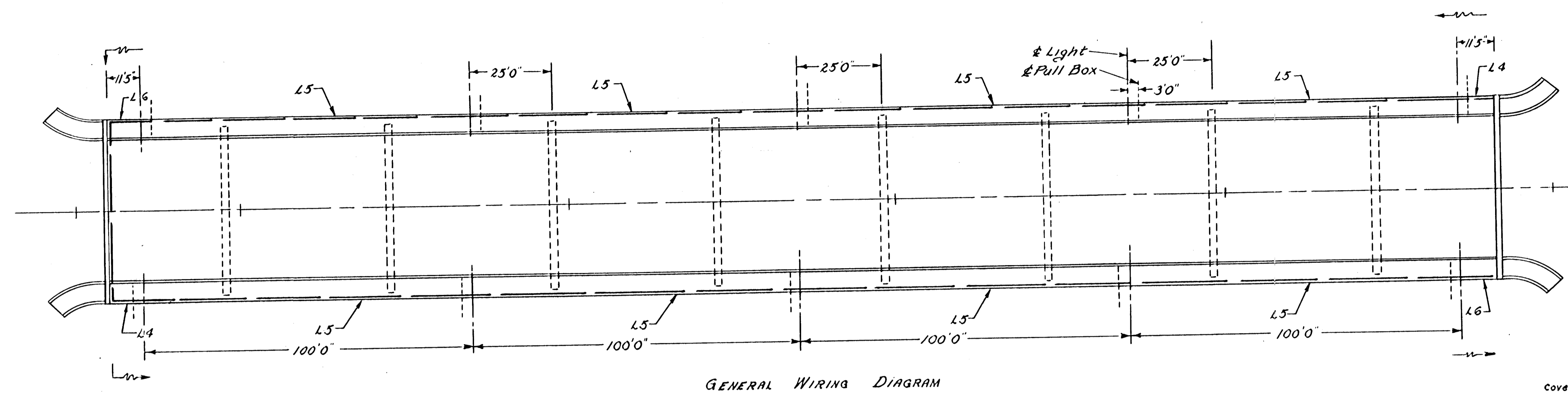
Shop weld all anchor bars to R's & L's
Field welds all 3/16" Ball's sides where possible

EXPANSION DETAIL

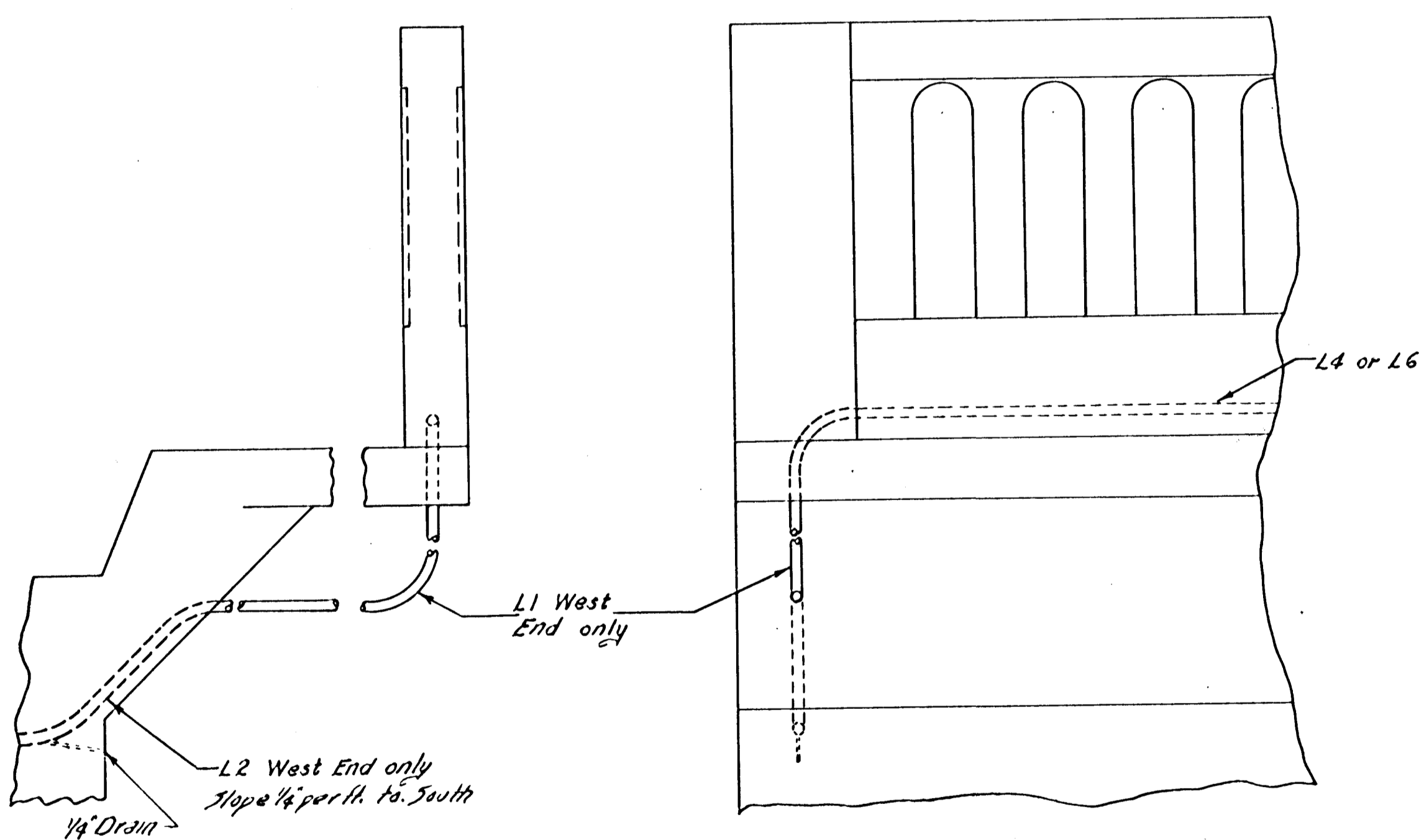
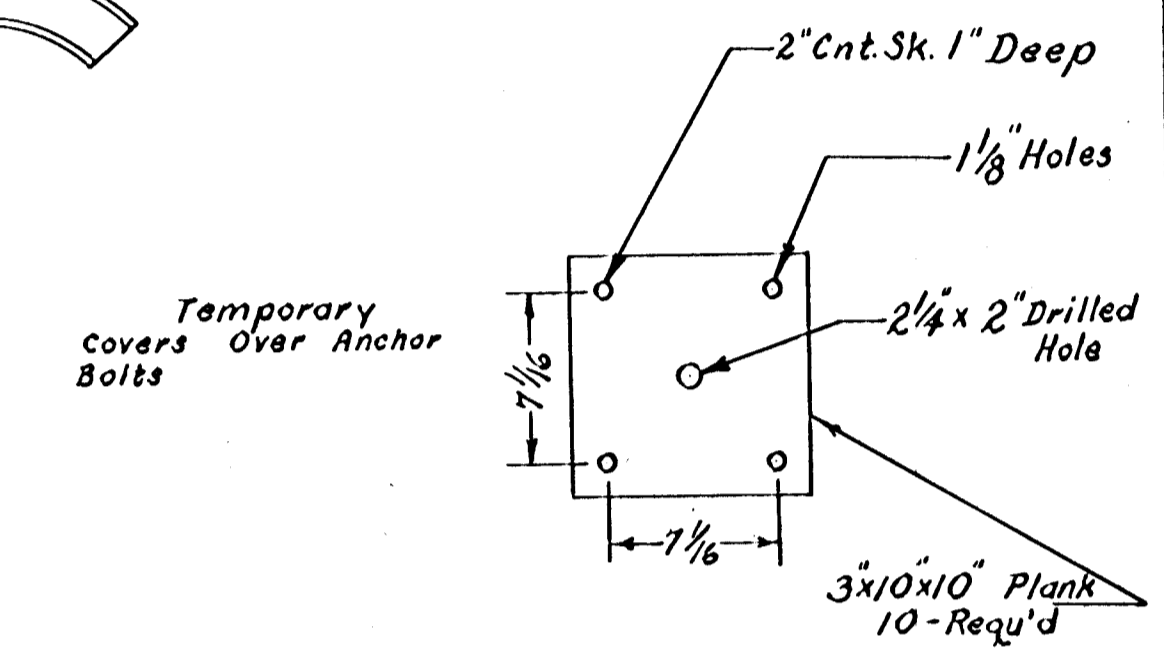
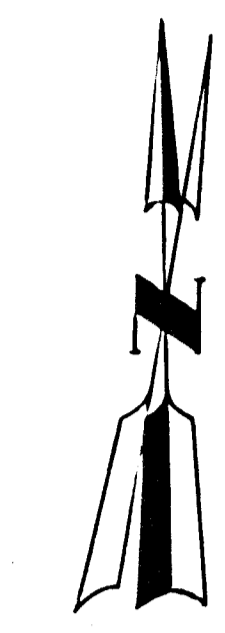
AUXILIARY DETAILS
BRIDGE NO. 616-25-2371

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

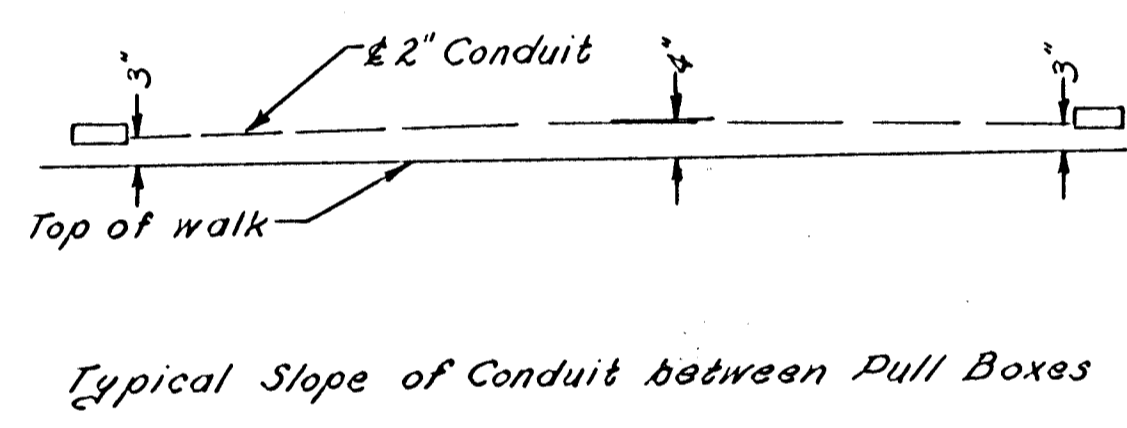
REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1" = 2'0"	M.E.S.	M.E.S.		
	DATE				
	PLANFILE	TOTAL SHEETS			



GENERAL WIRING DIAGRAM



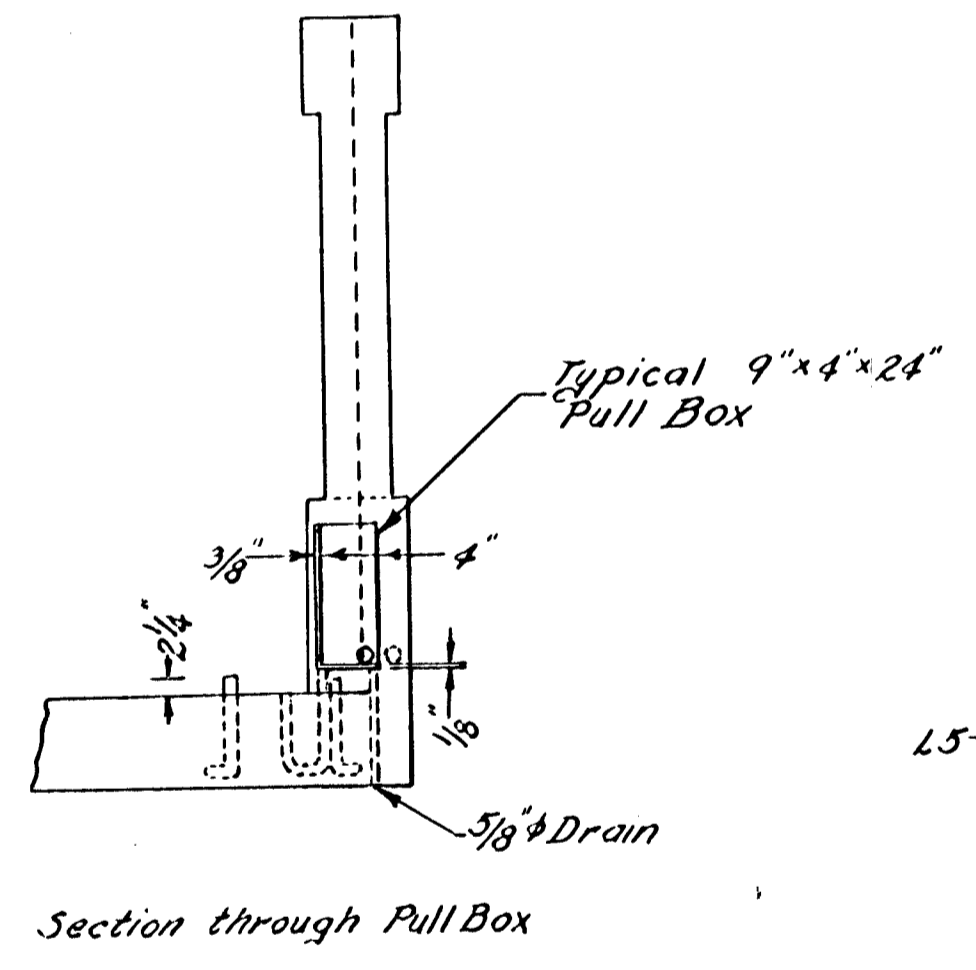
DETAIL AT ENDS OF BRIDGE



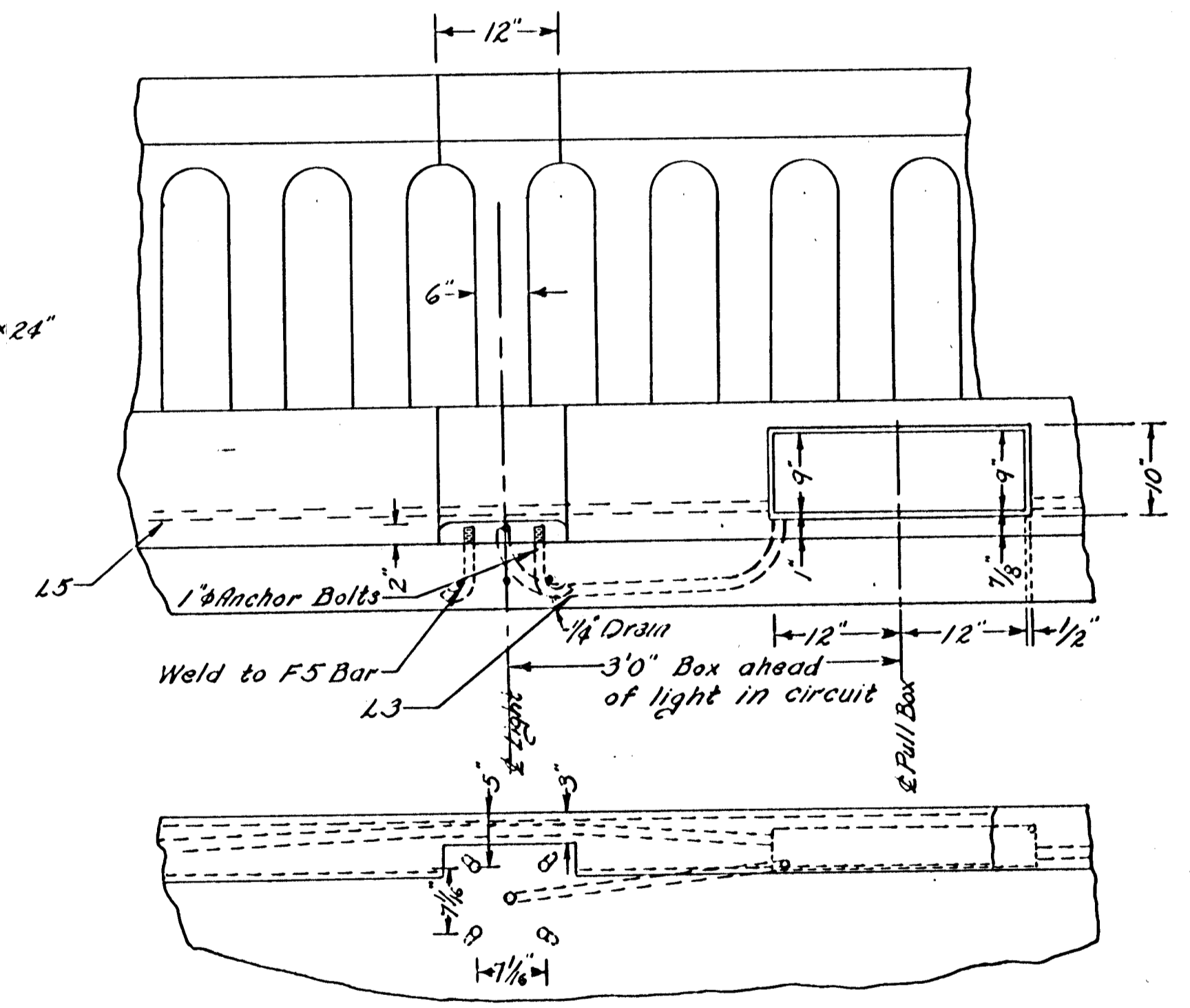
Typical Slope of Conduit between Pull Boxes

Symbol	No.	Length	Tot. Lgth
L1	2	4' 1 1/2"	8' 3"
L2	1	53' 4 1/2"	53' 4 1/2"
L3	10	1' 10 1/2"	18' 9"
L4	2	3' 7 1/2"	7' 5"
L5	8	100' 2"	801' 4"
L6	2	13' 1 1/2"	26' 3"
		Total	928' 2 1/2"

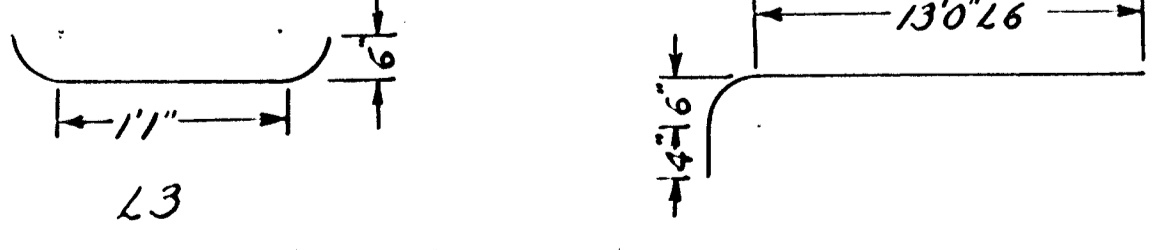
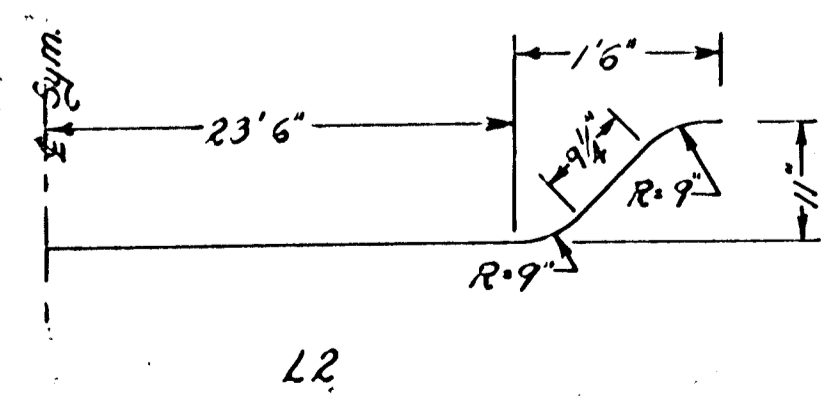
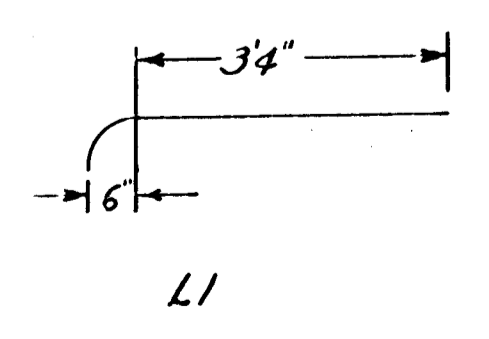
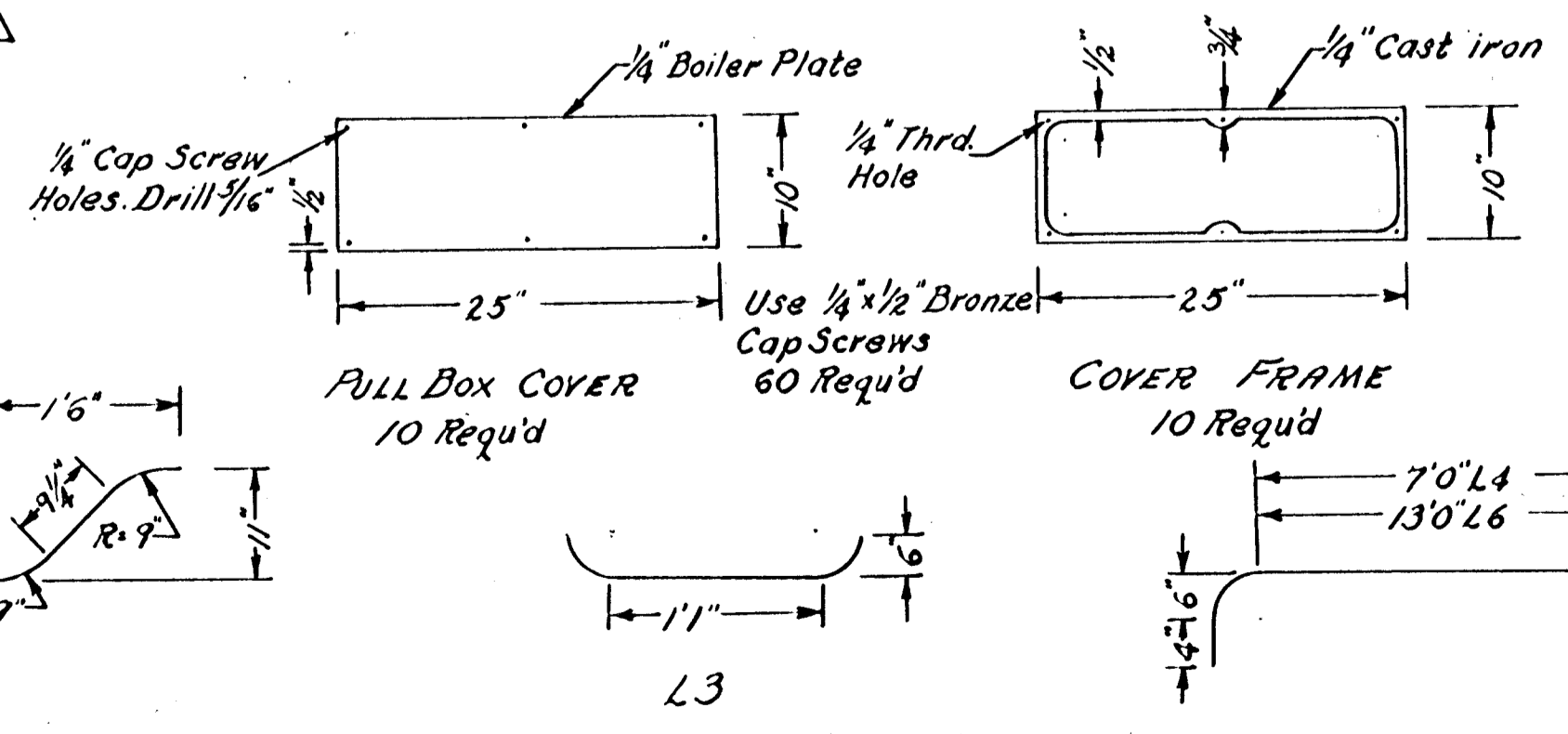
All conduit 2" non-metallic



Section through Pull Box



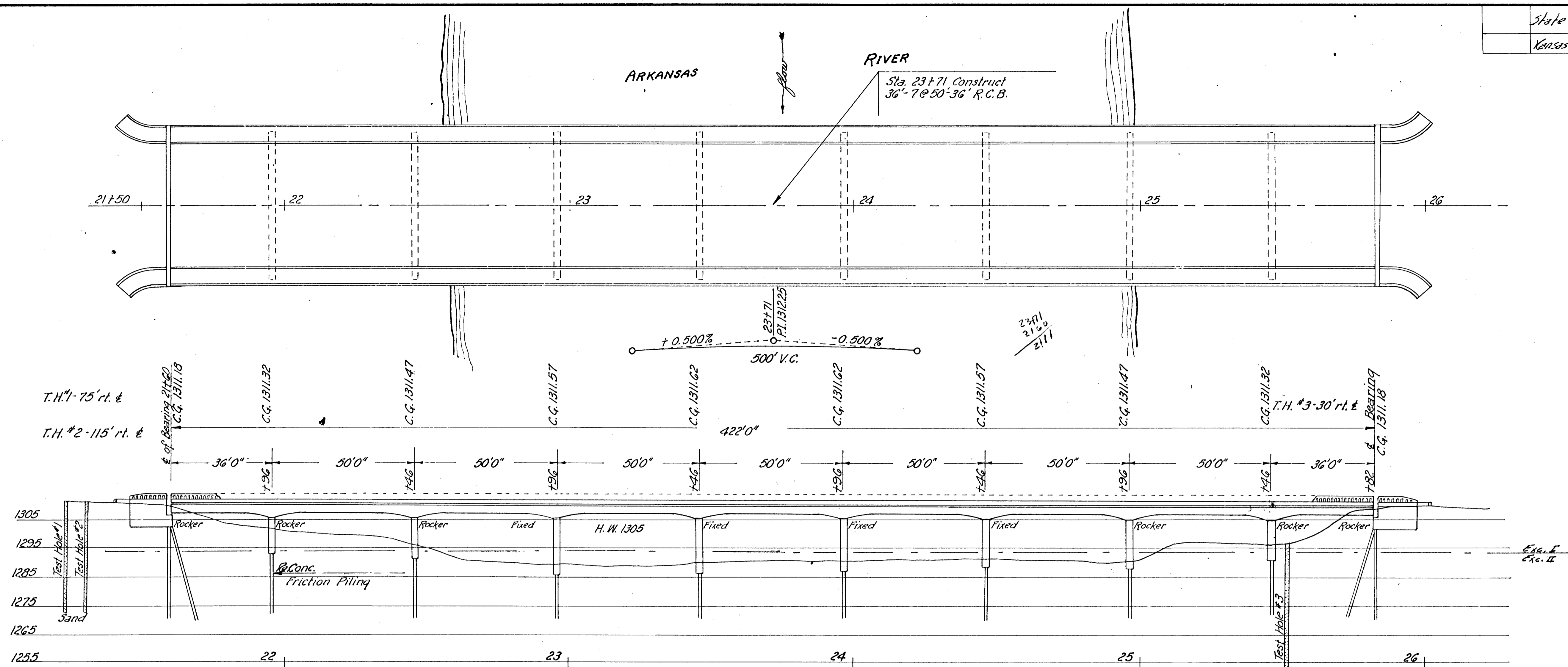
DETAIL AT PULL BOX AND LIGHT



LIGHTING DETAILS
BRIDGE NO. 616-25-2371

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

REVISED 11-30-53	SCALE	DESIGNED M.E.S.	TRACED C.D.H.	CHECKED	SHEET NO.
		DATE 10-50	10-25-50		
		PLANFILE	TOTAL SHEETS		



PLAN AND ELEVATION

36'-7@50'-36' CONTINUOUS CONCRETE SPANS ON CONCRETE ENCASED STEEL TYPE BENT PIERS, 48' ROADWAY OPEN ABUTMENTS, 4' SIDEWALKS.

BENCH MARKS

B.M. #2 60" in T.P. 24' rt. Sta. 17161 Elev. 1309.80
 B.M. #3 U.S.C. & G.S. std. tablet 54' S.E. of S.E. cor. of bri. Elev. 1312.13

Drainage Area 38,853 sq. mi.
 Discharge 26,000 c.f.s.
 Waterway 4,920 sq. ft.

SUMMARY OF QUANTITIES

Excavation Class I	407 cu.yds.
Excavation Class II	324 cu.yds.
Concrete Class A (AE)	1707.5 cu.yds.
Reinforcing Steel	270,034 lbs.
Structural Steel	
Bearing Devices	27,612 lbs.
Re. Conc. Piling	7,980 lin. ft.
Cast Iron	1574 lbs.
2" Conduit	926 lin. ft.

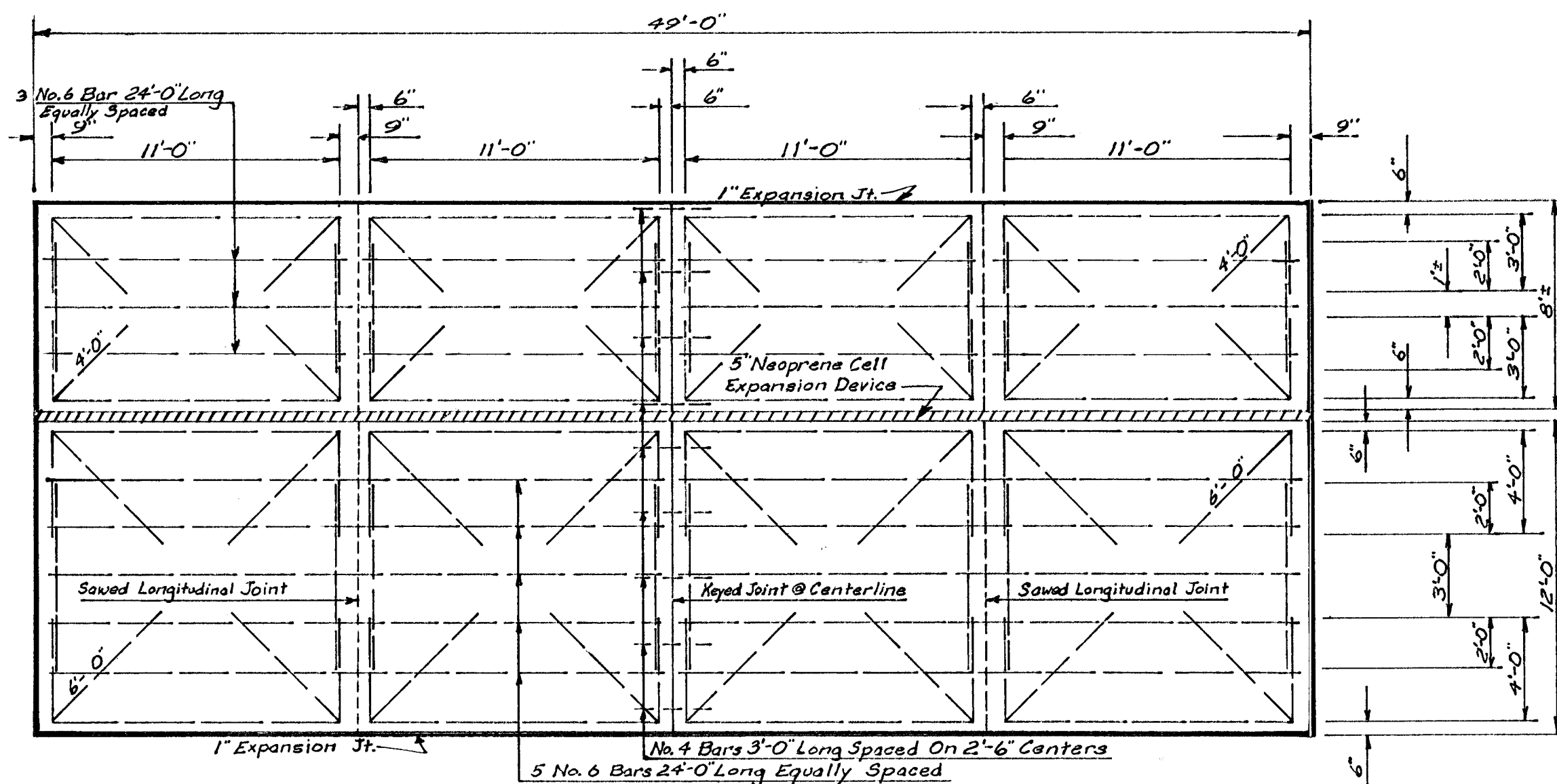
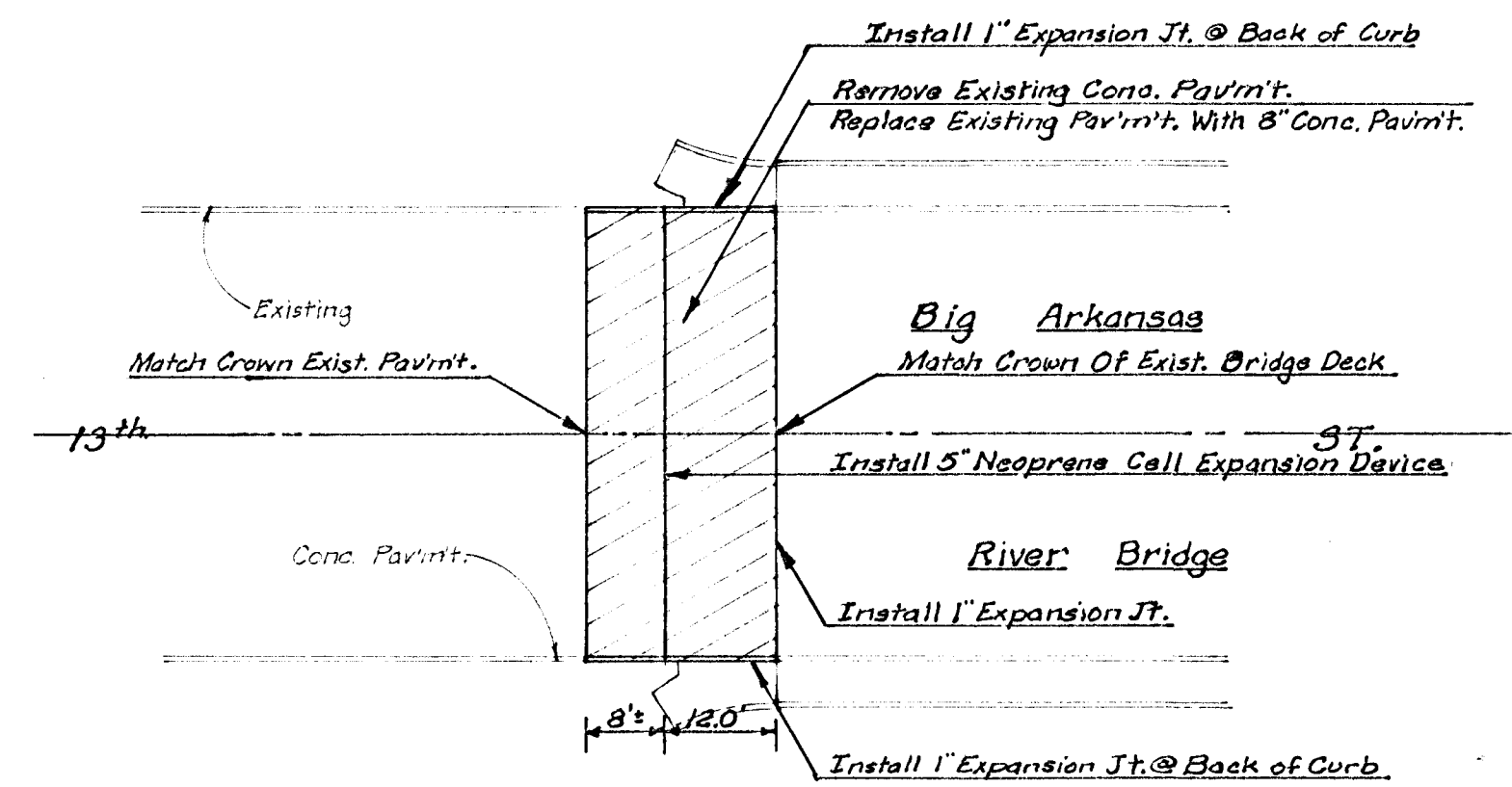
GENERAL NOTES

Design: A.A.S.H.O. for H-20-44 Loading
 20,000 p.s.i. Reinforcing Steel (int. gr.)
 1,000 p.s.i. Concrete.
 Old Structure: To be removed by Sedgwick County.
 Soundings: Taken with 3/4" jet by Sedgwick County.
 Embankment: The embankment at the abutments shall be built after completion of the abutments.
 Piling: Conc. piling shall be driven to a computed bearing value of twenty eight tons per pile. Piling shall be driven to a minimum depth of thirty feet below the bottom of the encasements.
 Lighting: Conduit, pull boxes and pole anchor bolts to be installed at time of construction. Poles, wiring etc. to be installed at a later date, and are not a part of this project.

CONSTRUCTION LAYOUT
BRIDGE NO. 616-25-2371

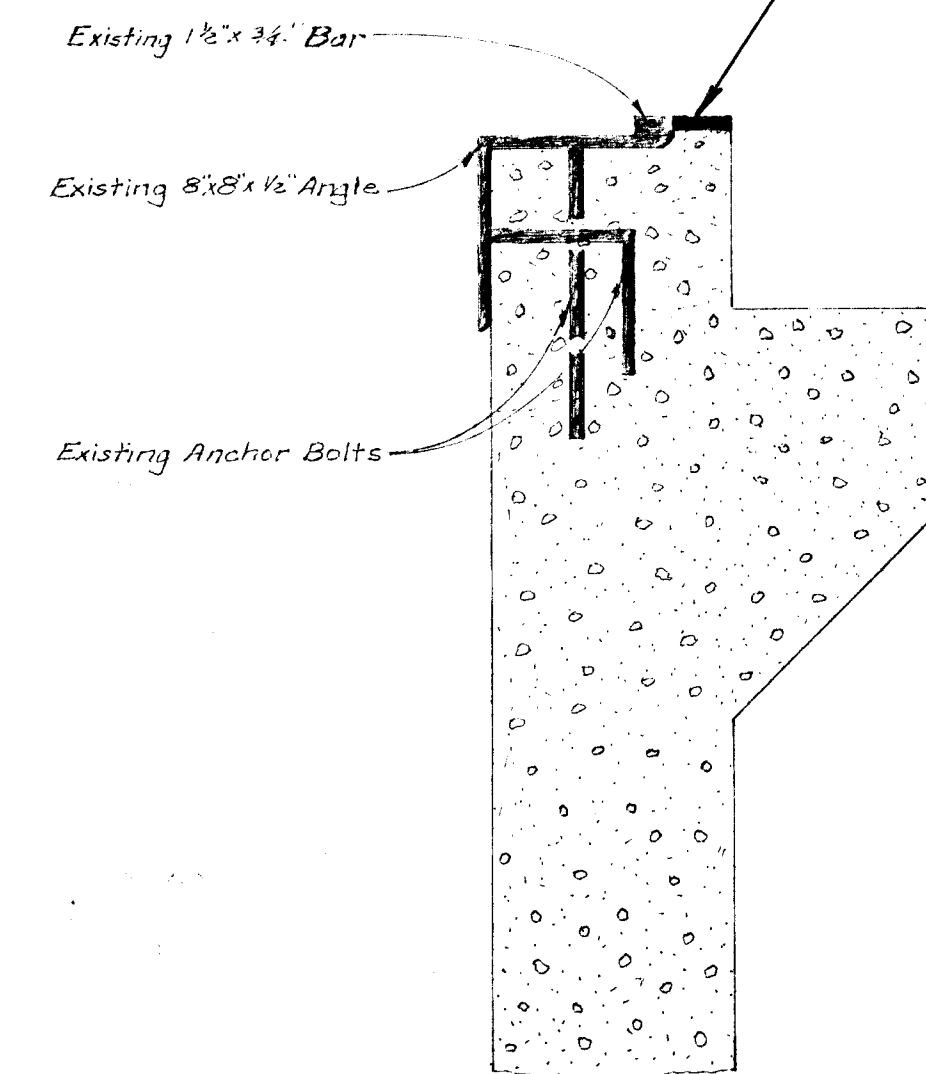
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
 COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=20'	M.E.S.	R.W.M.		
	DATE				
	PLANFILE	TOTAL SHEETS			

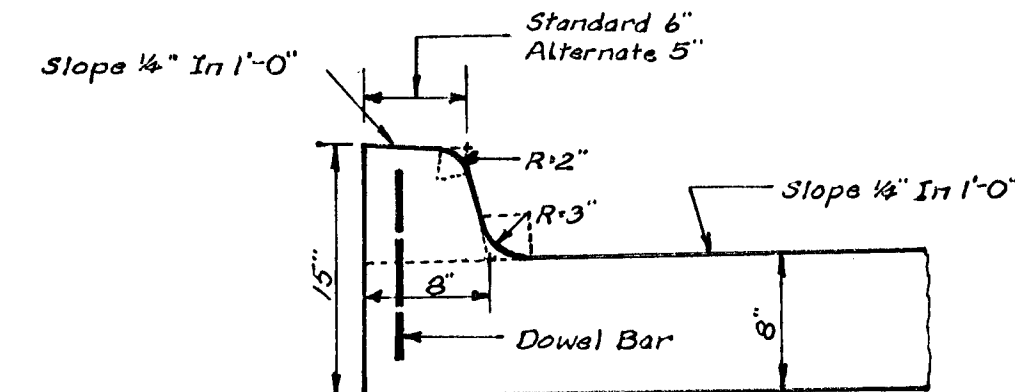


STEEL PATTERN FOR 8\"/>

Contractor To Remove Existing Concrete As Needed To Weld 2 1/2\"/>

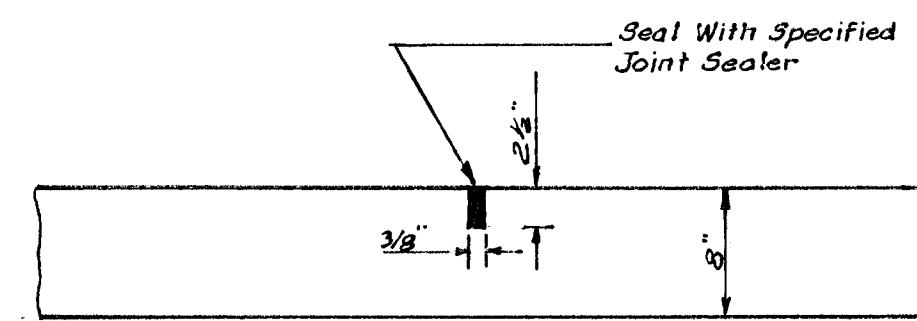


EAST ABUTMENT PARAPET WALL

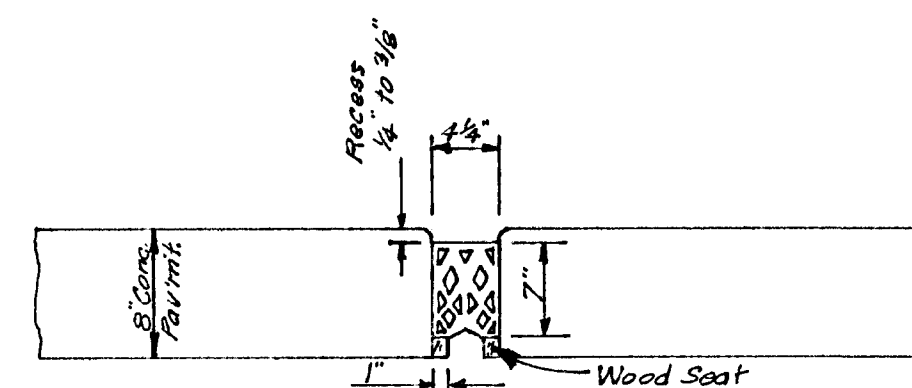
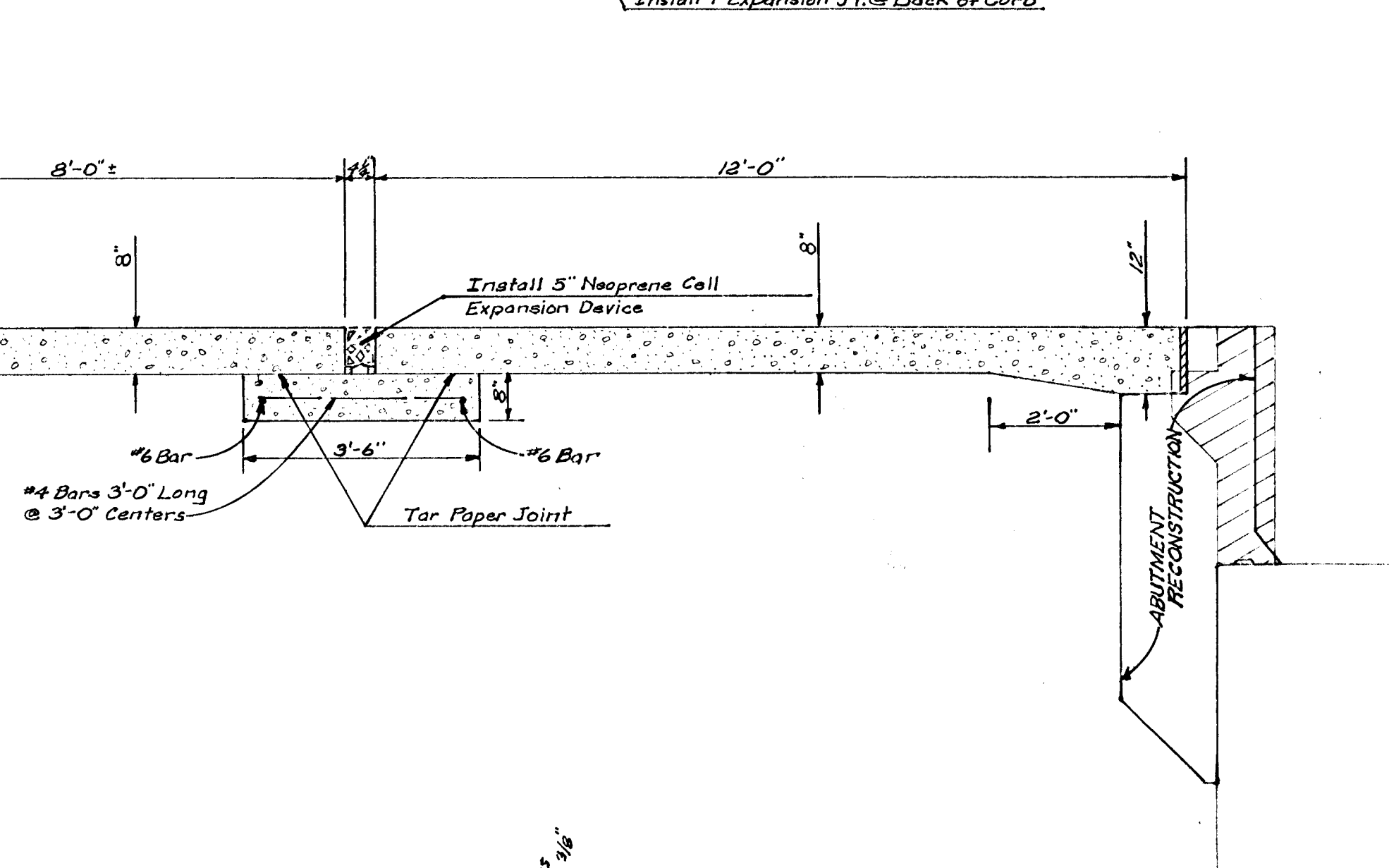


DETAIL OF INTEGRAL CURB

Integral Curb Shall Be Cut Through To The Pavement In Uniform Lengths Of Not More Than Ten Foot Intervals Between Expansion Joints. Expansion Joints Having The Same Thickness As The Expansion Joints In The Pavement Shall Be Constructed In The Integral Curb At The Specified Locations. Number 4 Or Number 6 Dowels Shall Be Installed In The Integral Curb As Shown On Approximately 2'-6\"/>



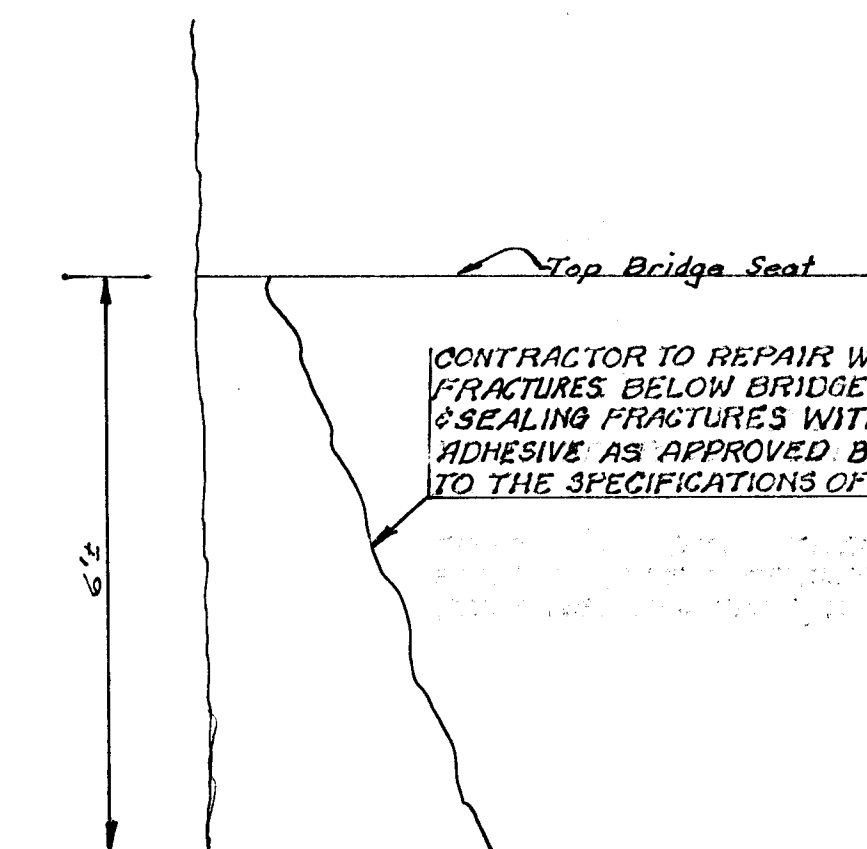
DETAIL OF SAWED LONGITUDINAL JOINT



Install 5\"/>

The Neoprene Joint Material Shall Be Machine Installed With Equipment Capable Of Placing The Strips At The Specified Depth Without Increasing Or Decreasing The Length As Taken From The Roll Or Box By More Than 5%. No Splices Will Be Permitted Across The Roadway. 6\"/>

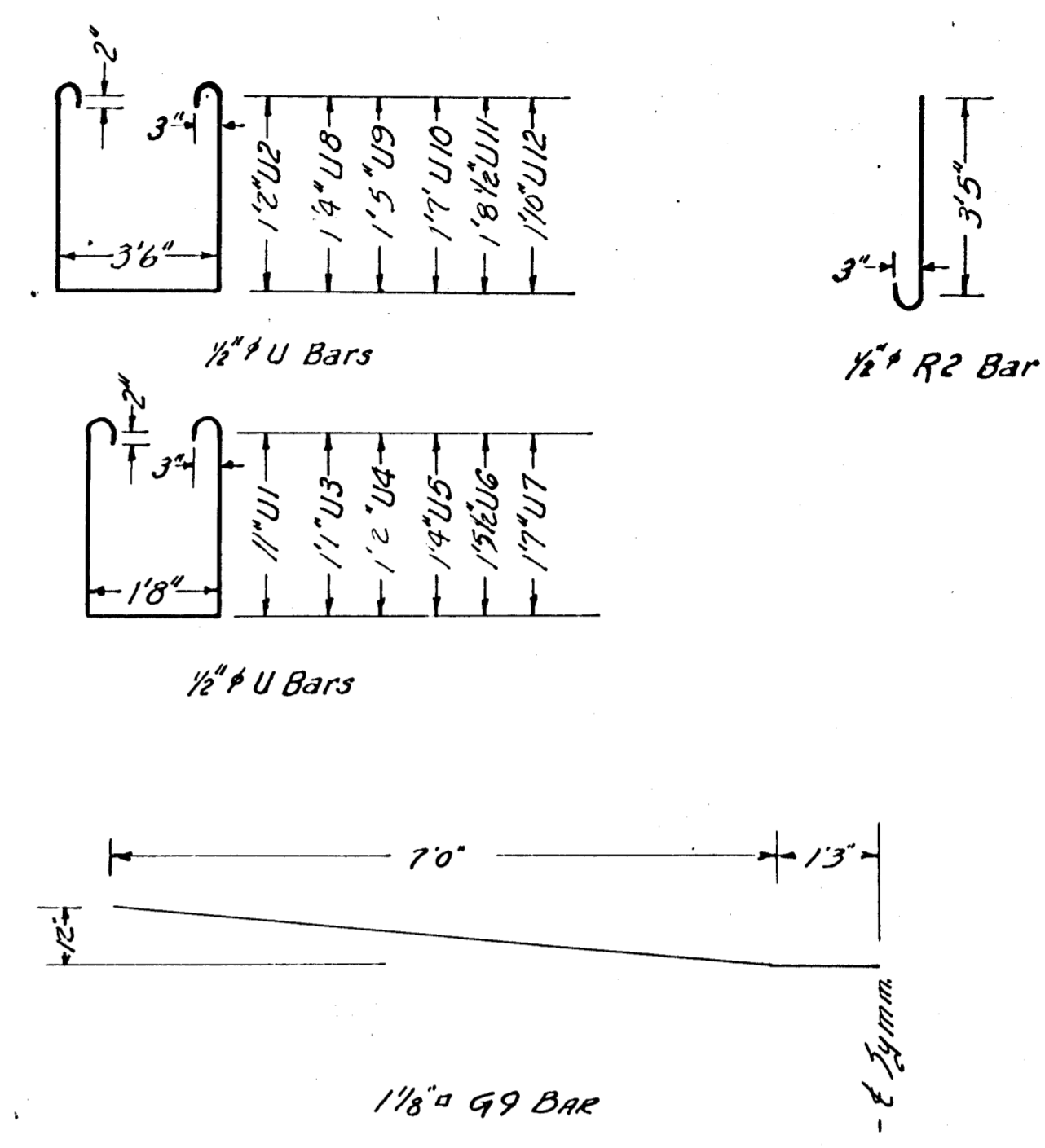
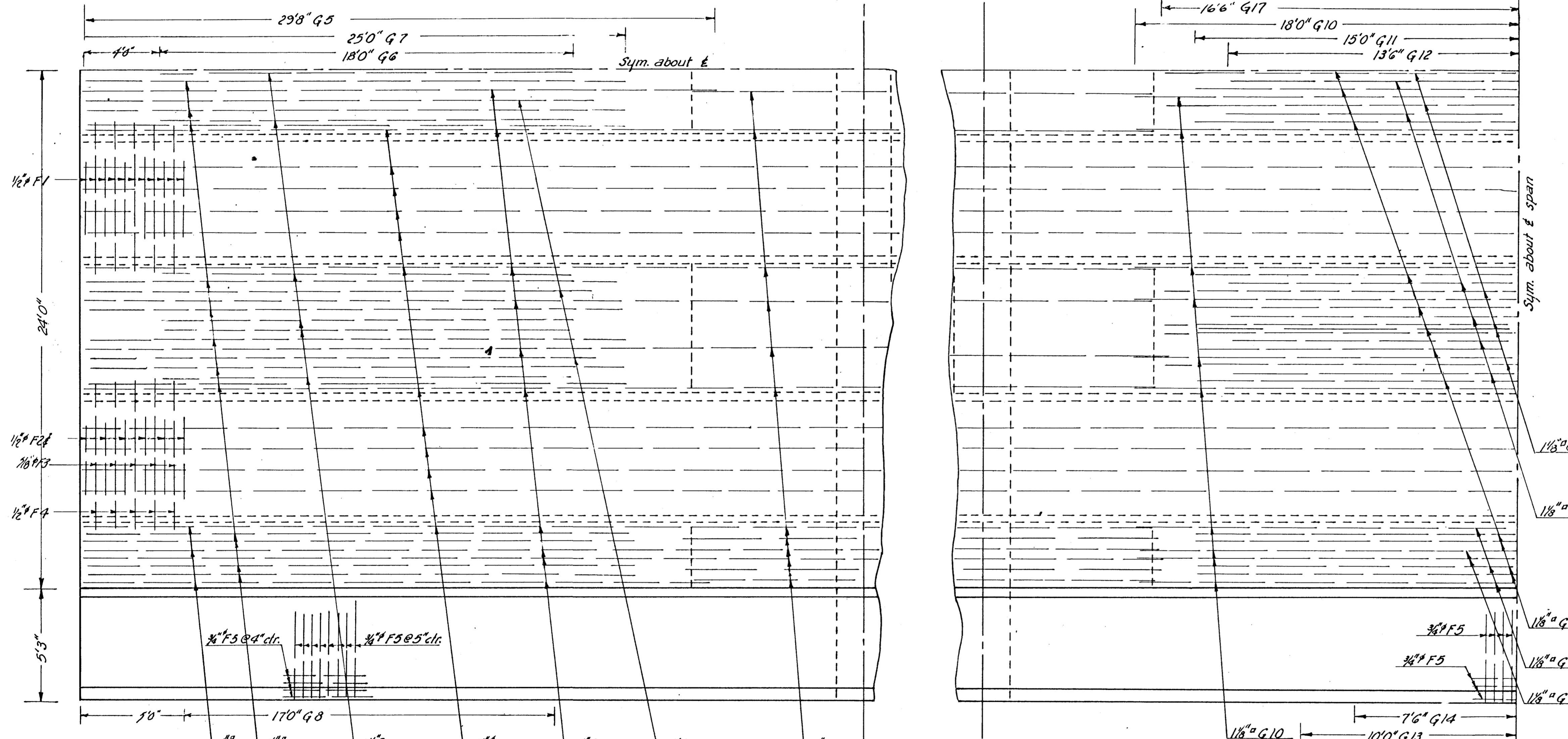
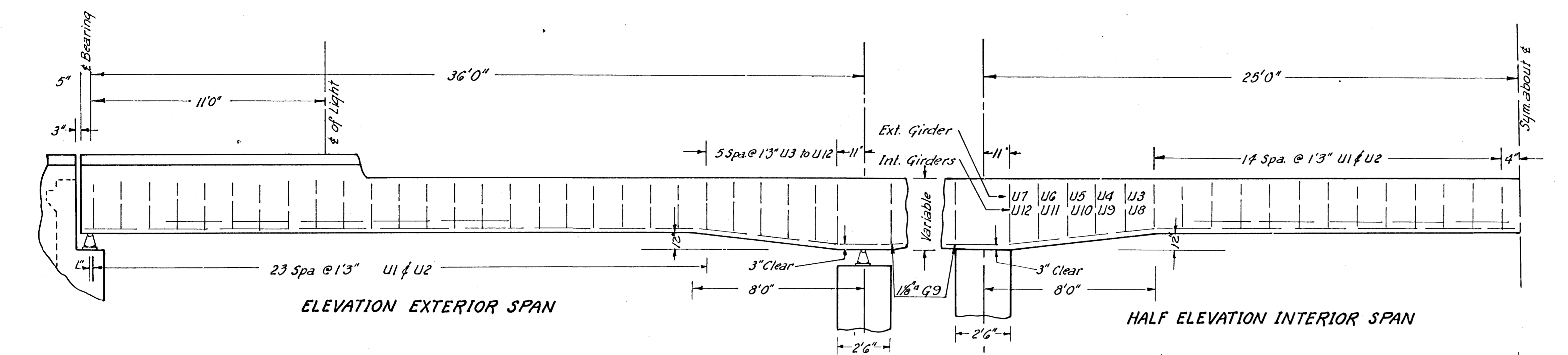
EXPANSION DEVICE DETAILS



WEST BRIDGE SEAT REPAIR DETAIL

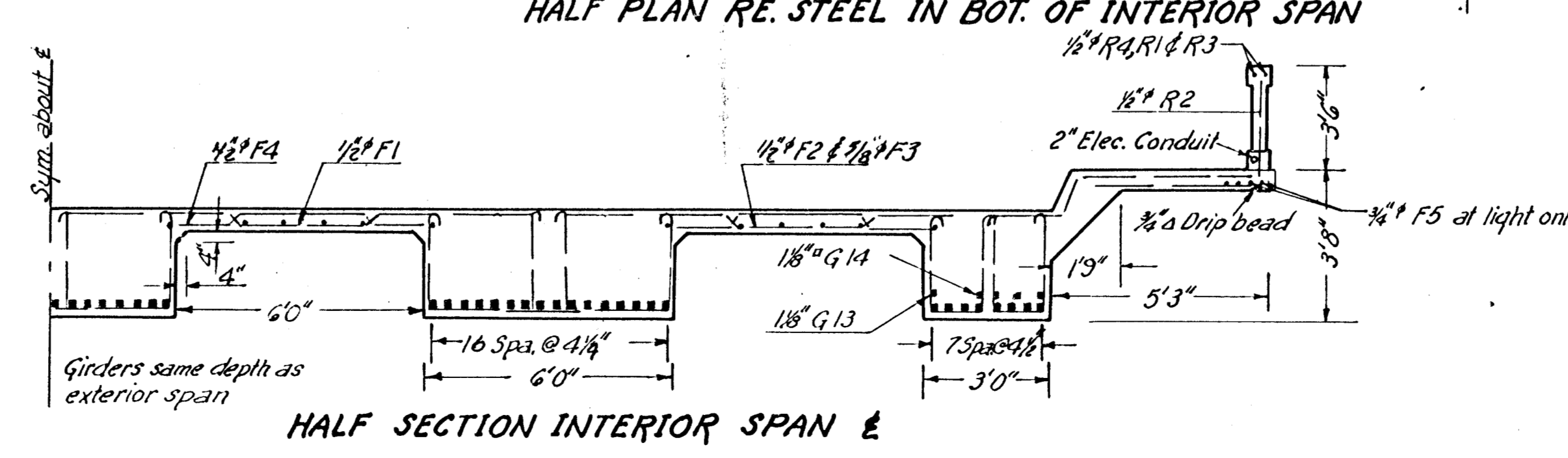
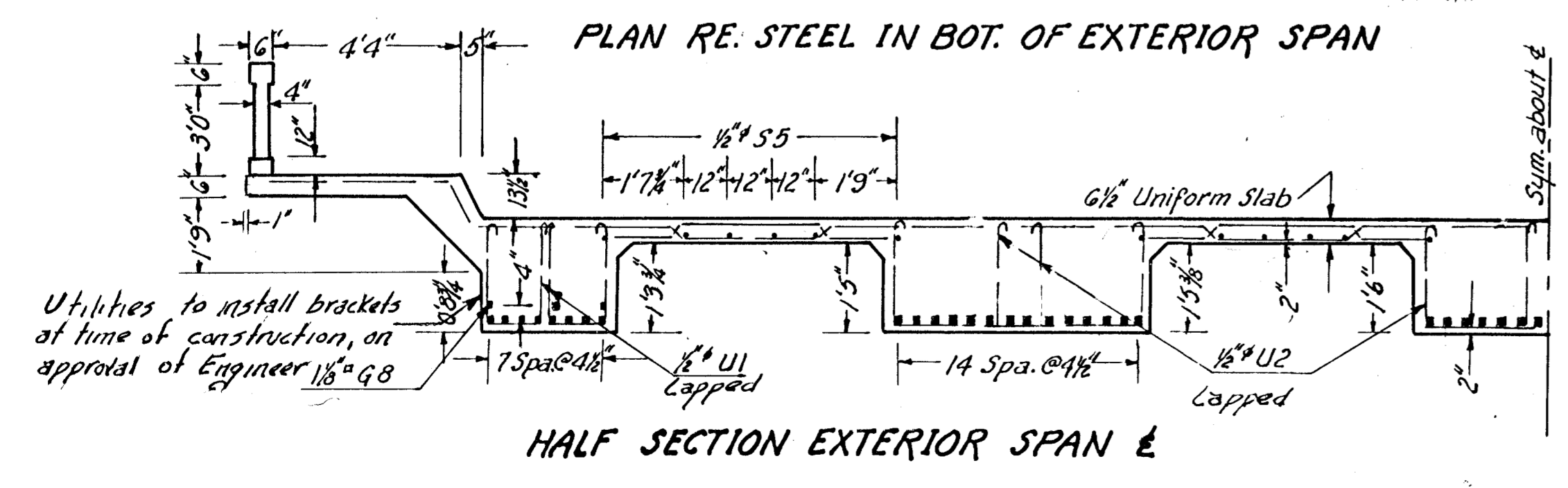


State	Kansas	Fiscal Year	1950	Sheet No.	6	Total Sheets	11
-------	--------	-------------	------	-----------	---	--------------	----



STEEL TABLE
 BOTTOM OF SLAB AND WALK

BAR	SIZE	No.	LENGTH	WEIGHT
G3	1/8"	40	298"	5,104
G6	1/8"	24	180"	1,878
G7	1/8"	48	250"	5,160
G8	1/8"	12	170"	877
G9	1/8"	192	168"	13,800
G10	1/8"	140	360"	21,687
G11	1/8"	168	300"	21,687
G12	1/8"	84	270"	9,759
G13	1/8"	42	200"	3,612
G14	1/8"	28	150"	1,807
G15	1"	1	12'11"	
F4	1/2"	1874	7'0"	8,648
F5	3/8"	120	4'3"	780
S5	1/2"	216	48'0"	4,925
U1	1/2"	1032	4'7"	3,180
U2	1/2"	1548	6'11"	7,187
U3	1/2"	64	4'11"	211
U4	1/2"	64	5'1"	218
U5	1/2"	64	5'3"	236
U6	1/2"	64	5'8"	243
U7	1/2"	64	5'11"	255
U8	1/2"	96	7'3"	466
U9	1/2"	96	7'5"	482
U10	1/2"	96	7'9"	498
U11	1/2"	96	8'0"	515
U12	1/2"	96	8'3"	531
R1	1/2"	8	7'0"	37
R2	1/2"	92	3'8"	2258
R3	1/2"	40	4'0"	107
R4	1/2"	160	8'11"	990
G16	1/8"	12	23'0"	1187
G17	"	84	3'30"	11718



SLAB AND GIRDER DETAILS
 BRIDGE NO. 616-25-2371

PREPARED BY
 SEDGWICK COUNTY ENGINEERING DEPT.
 RUFUS S. KIRK, COUNTY ENGINEER

REVISED 11-30-45	SCALE 1" = 3'0"	DESIGNED M.E.S.	TRACED R.W.M.	CHECKED	SHEET NO.
DATE 10-50	TOTAL SHEETS				

State	Kansas	Fiscal Year	1950	Sheet No.	7	Total Sheets	11
-------	--------	-------------	------	-----------	---	--------------	----

STEEL TABLE
(one abut.)

Bar	Space	No.	Size	Length	WT.	Revised Weight	
Aw	11"	36	1/2"	12'-4"	297	296.5	
Bw	12"	12	"	14'-11"	120	119.6	
Cw	12"	10	"	13'-3"	89	88.5	
Dw*	12"	76	"	10'-0"	508	475.0	
Ew	12"	6	"	6'-10"	27	27.4	
Fw	12"	14	"	14'-2"	133	132.7	
Gw	12"	6	"	9'-1"	37	36.4	
Hb†	12"	58	"	10'-5"	202	406.4	
Ib	12"	48	"	2'-10"	91	90.7	
Jb	4"	4	"	25'-0"	67	66.8	
Kb	12"	40	"	30'-0"	802	801.60	
Lb	4"	4	"	7'-1"	19	18.92	
R		4	"	12'-0"	32	32.1	
Total					3625	2424	2792.3*

QUANTITIES per ABUTMENT

Cu. yd. Concrete	48.0
Bearing Devices	10
L.F. Friction Piling	740

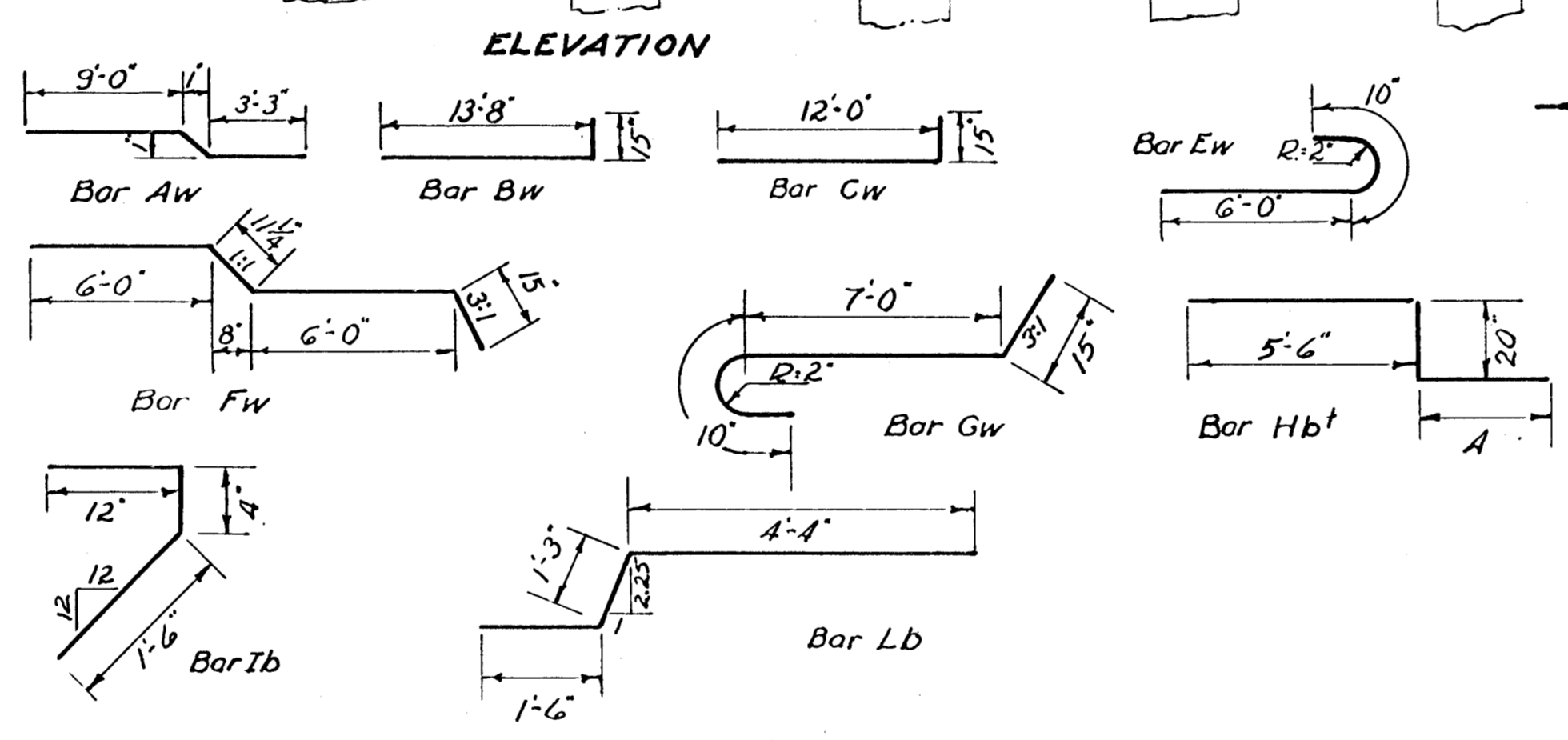
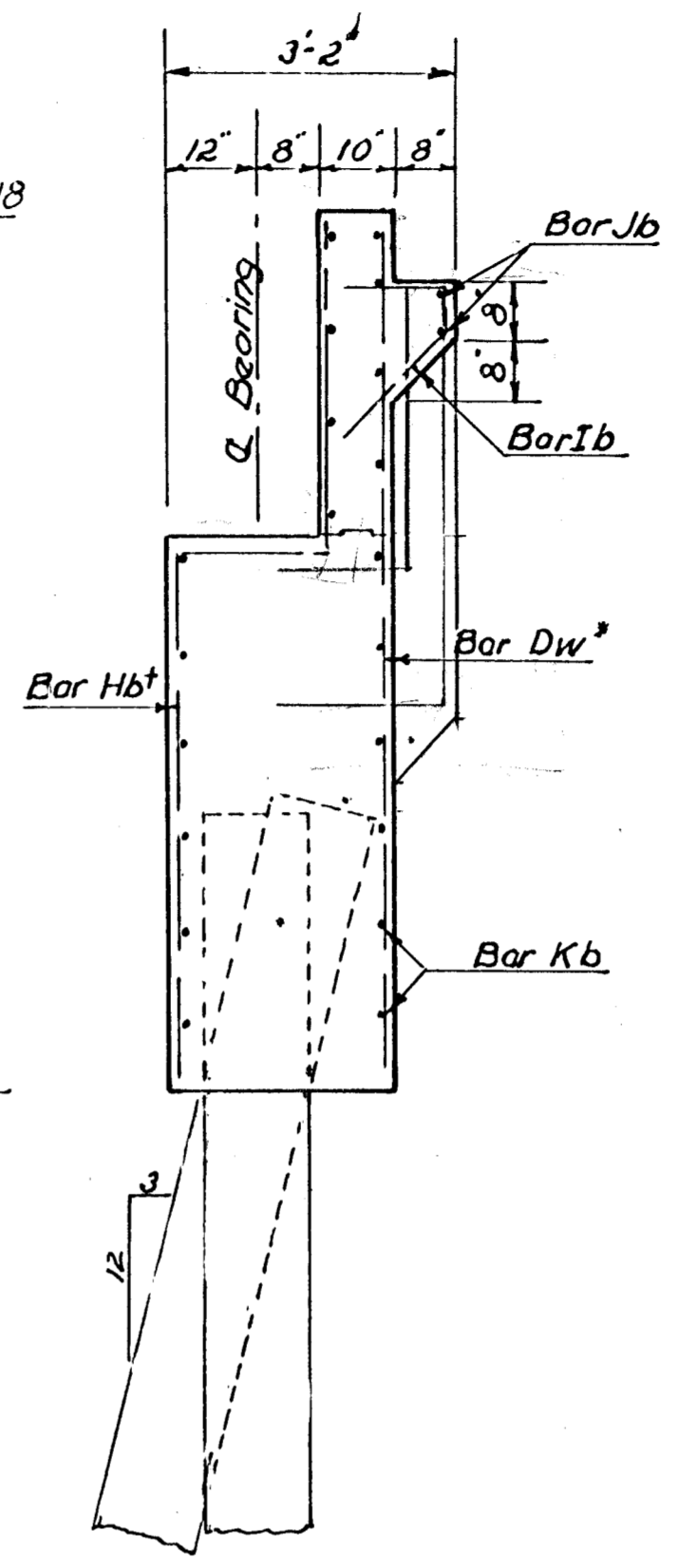
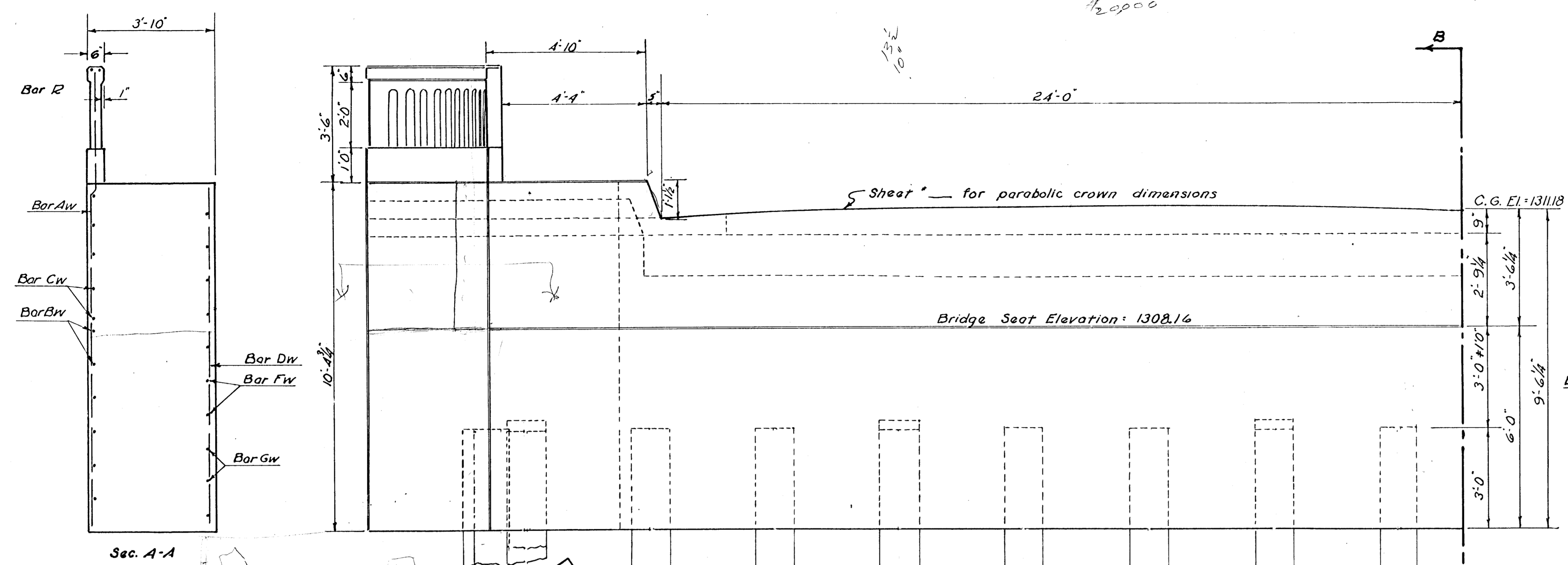


TABLE of Hb & Dw BAR
(For one abutment)

No. Cut	Bar Hb		Bar Dw	
	A Dim.	No. Cut	Overall L.	No. Cut
8	3'-3"	28	10'-0"	8
8	3'-2 1/2"	8	9'-1"	8
8	3'-2"	8	9'-0 1/2"	8
8	3'-1 1/2"	8	9'-0"	8
8	3'-1"	8	8'-11 1/2"	8
8	3'-1/2"	8	8'-11"	8
10	4'-2"	8	8'-10 1/2"	8

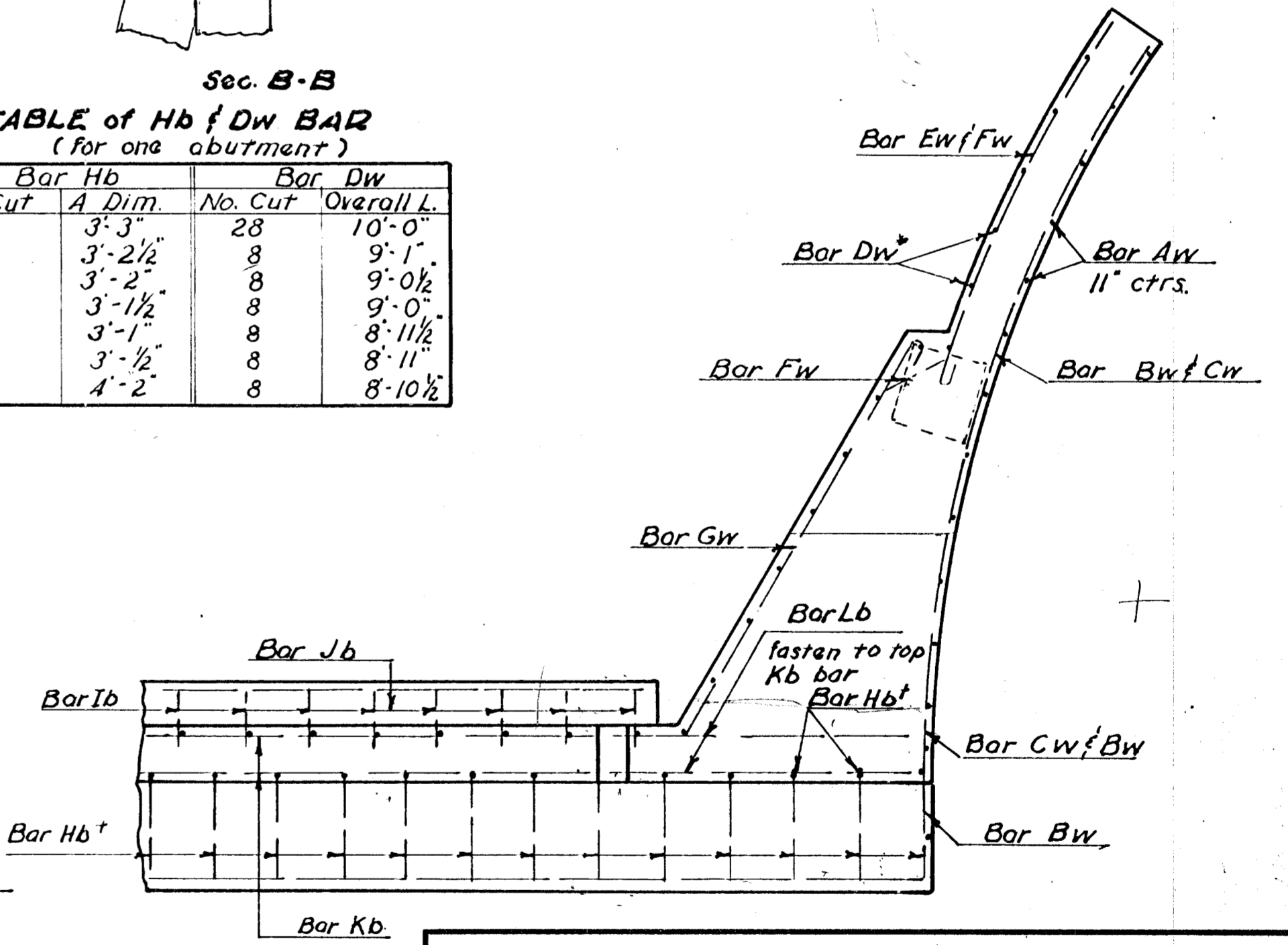
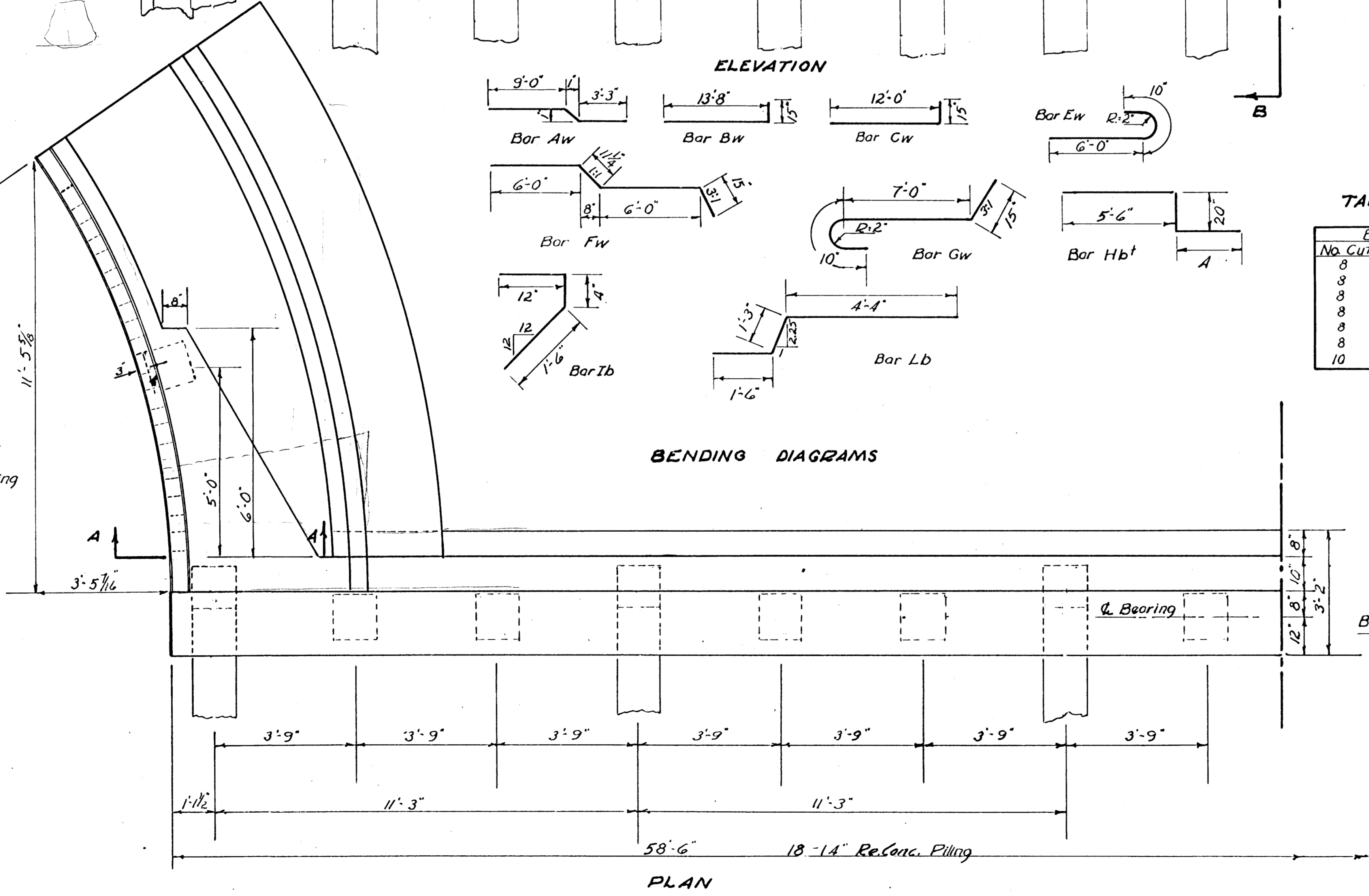
GENERAL NOTES

Bearing plates to be spaced as those for pier. (see sheet #...)

Piling to be driven to a computed bearing value of 28 tons and at least 31'-6" below the bridge seat.

Bevel all exposed edges with 3/4" molding.

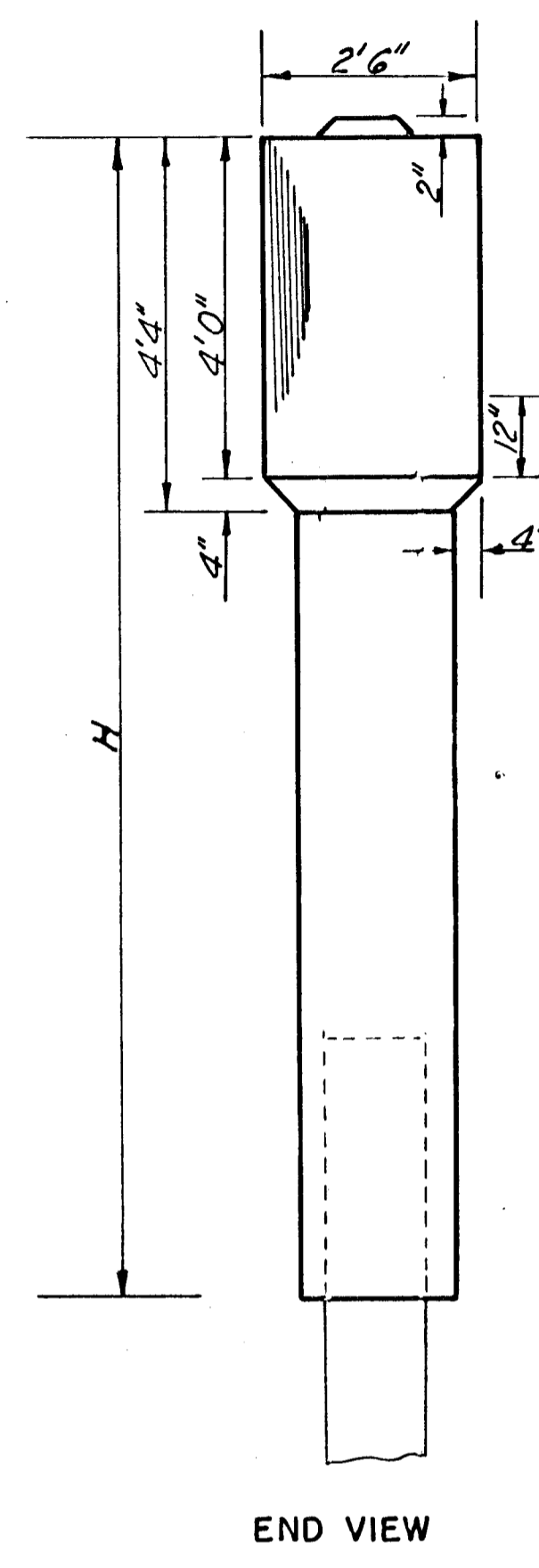
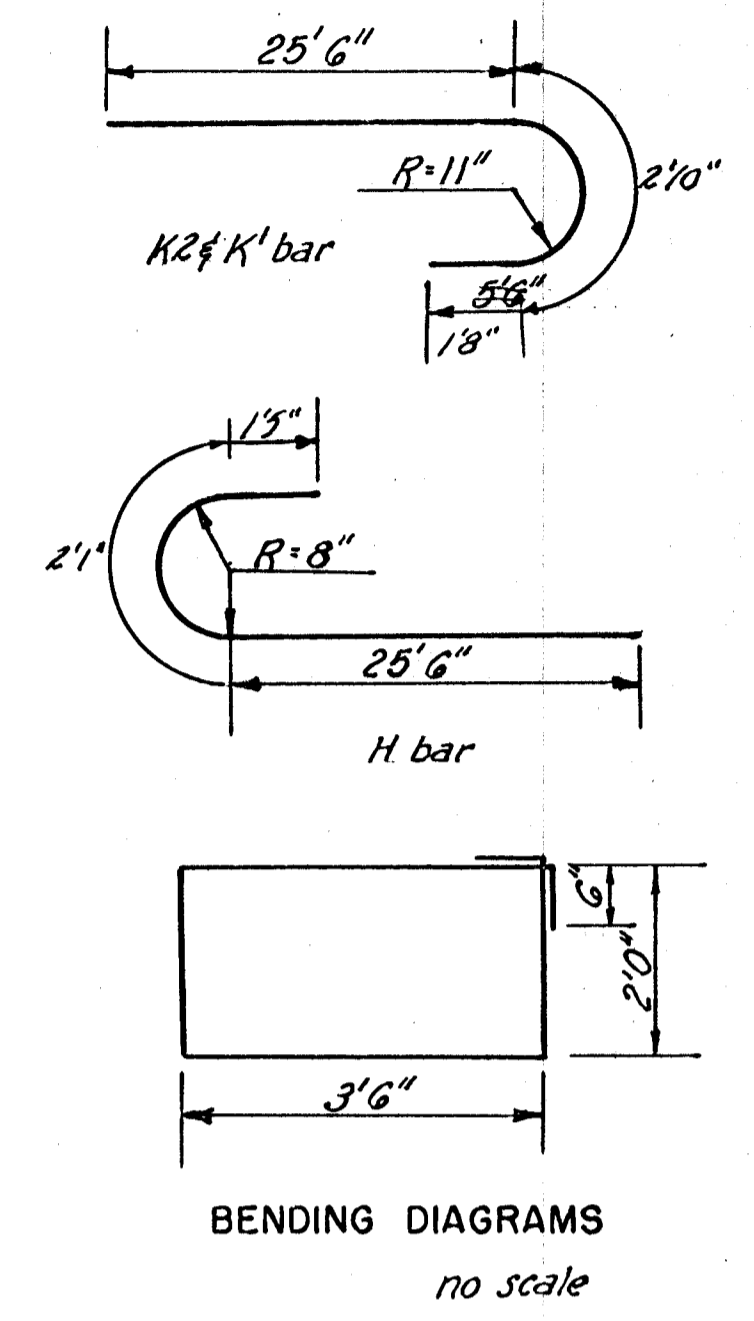
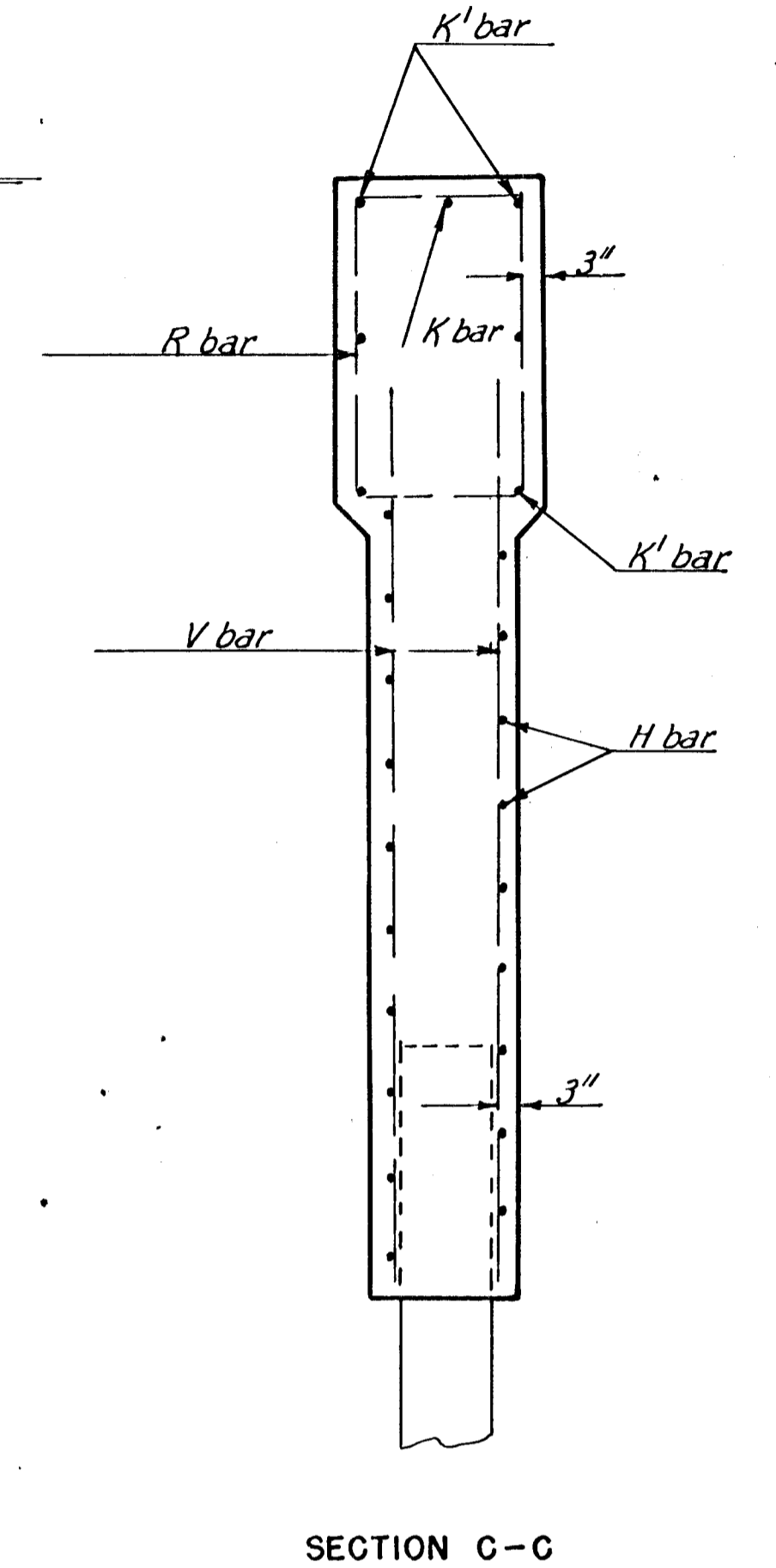
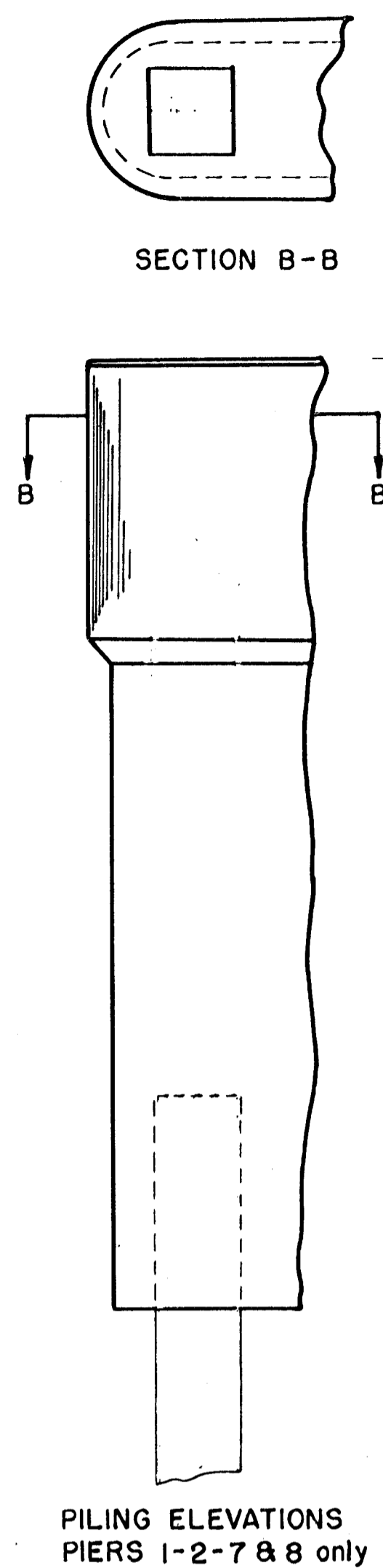
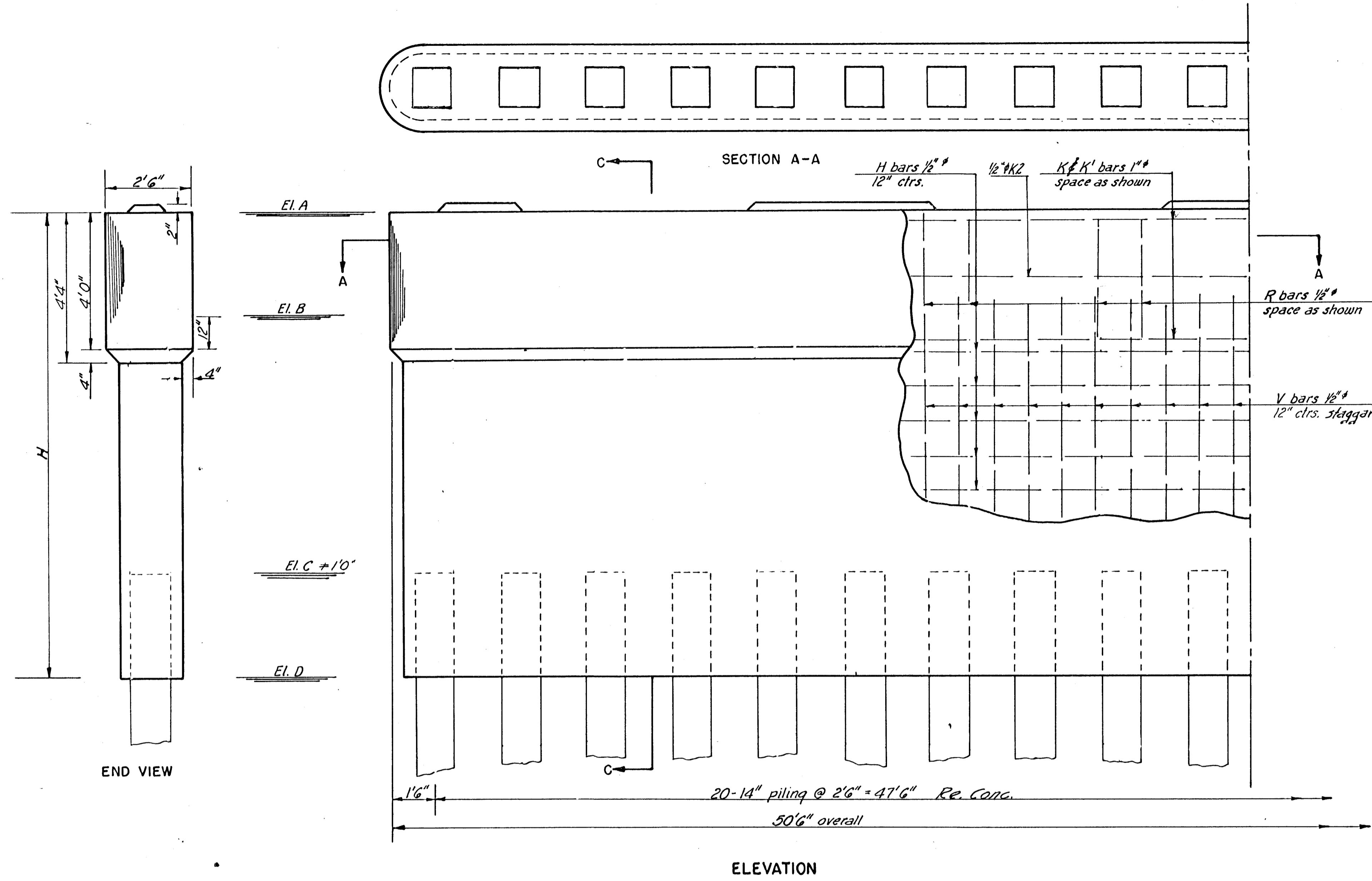
Concrete to be class A (ae).



ABUTMENT DETAIL
BRIDGE NO. 616-25-2371

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
Rufus S. Kirk — COUNTY ENGINEER

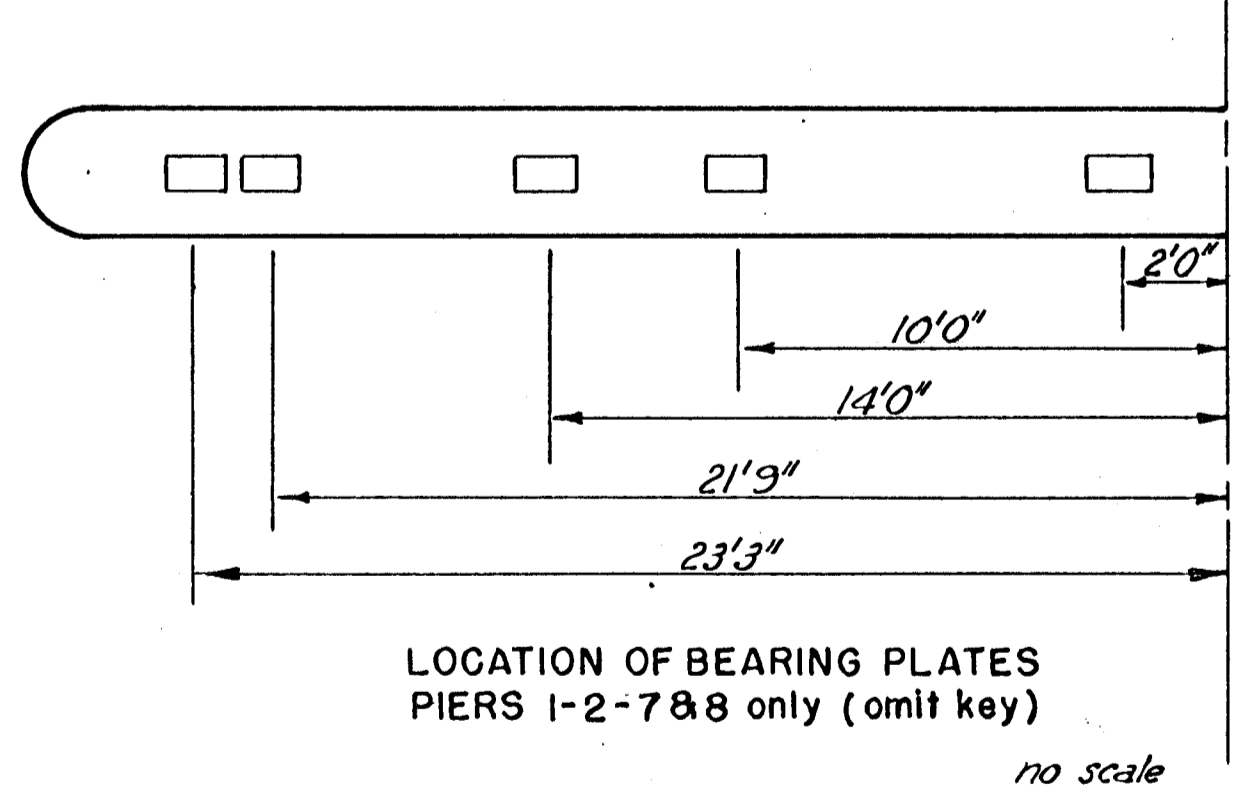
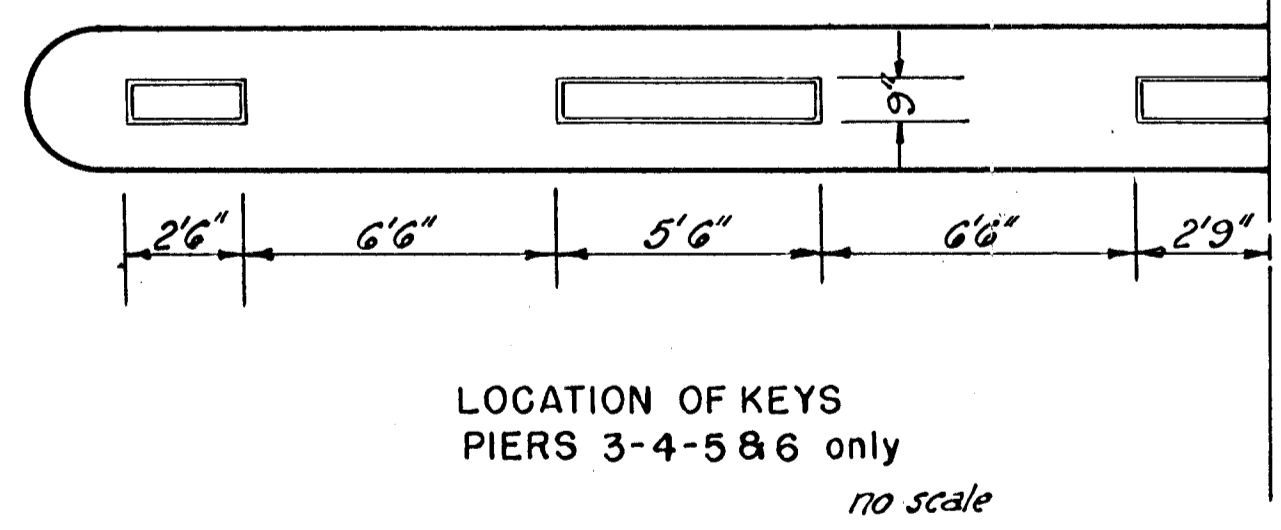
REVISIONS	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1/2" = 1'-0"	M.S.F.R.U.	R.V.		
	DATE	10-20-50			
	PLANFILE	TOTAL SHEETS			



ELEVATION

PIER	TABLE of ELEVATIONS				TABLE of STEEL								QUANTITIES					A						
	ELEVATION A	ELEVATION B	ELEVATION C	ELEVATION D	Number 1/2" R bars	Length 1/2" R bars	Number 1" K bars	Length 1" K bars	Number 1" K' bars	Length 1" K' bars	Number 1/2" V bars	Length 1/2" V bars	Number 1/2" H bars	Length 1/2" H bars	8"x15"x14" Bearing Pl.	L.F. Test Pile	L.F. Friction Pile		Cu. Yds. Concrete	Lbs. Re-bars				
#1	1307.55	1304.55	1297.55	1294.55	40	120	2	266	8	349	51	106	26	500	10	406	810	49.62	2354	13	4	300	1928.3	
#2	1307.70	1304.70	1294.70	1291.70	40	120	2	266	8	349	51	136	32	500	10	0	0	53.73	2654	16	4	300	2146.7	
#3	1308.53	1305.53	1289.53	1286.53	40	120	2	266	8	349	51	196	44	500	0	0	0	80.13	3259	22	4	0	2583.6	
#4	1308.58	1305.58	1290.58	1287.58	40	120	2	266	8	349	51	186	42	500	0	0	0	76.74	3153	21	4	0	2510.8	
#5	1308.58	1305.58	1291.58	1288.58	40	120	2	266	8	349	51	176	40	500	0	406	0	73.35	3060	20	4	0	2437.9	
#6	1308.53	1303.53	1291.53	1288.53	40	120	2	266	8	349	51	176	40	500	0	0	0	73.35	3060	20	4	0	2437.9	
#7	1307.70	1304.70	1290.70	1287.70	40	120	2	266	8	349	51	176	40	500	10	0	0	73.35	3060	20	4	0	2437.9	
#8	1307.55	1304.55	1297.55	1294.55	40	120	2	266	8	349	51	146	34	500	10	406	0	63.18	2751	17	4	0	2219.5	
TOTALS			1297.55		30										40	1216		549.5	2336					18,702.6

GENERAL NOTES
 Class A (AE) Concrete shall be used thruout. Bevel all exposed edges with a 1/4 triangular molding unless otherwise noted.
 All dimensions shown relative to reinforcing steel are to E of bar.

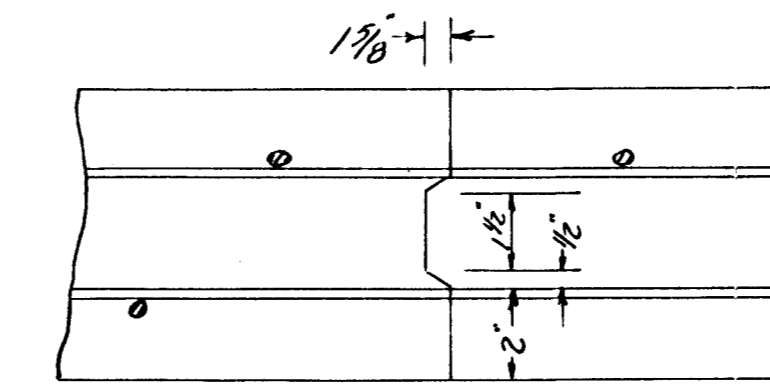
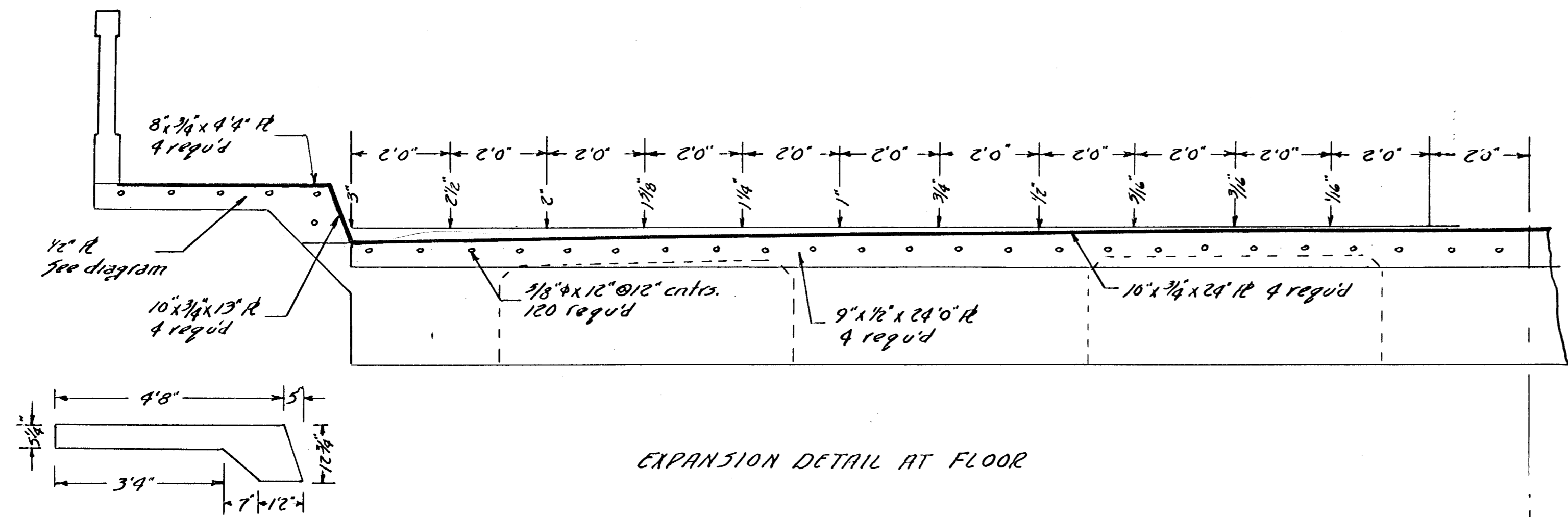


PIER DETAILS
BRIDGE No. 616-25-2371

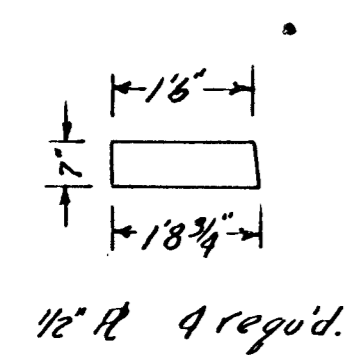
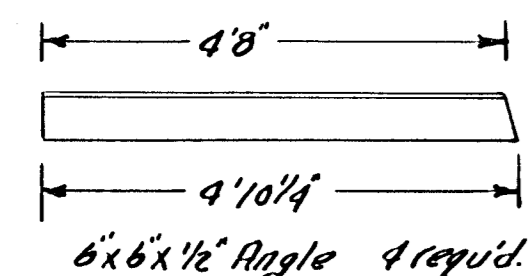
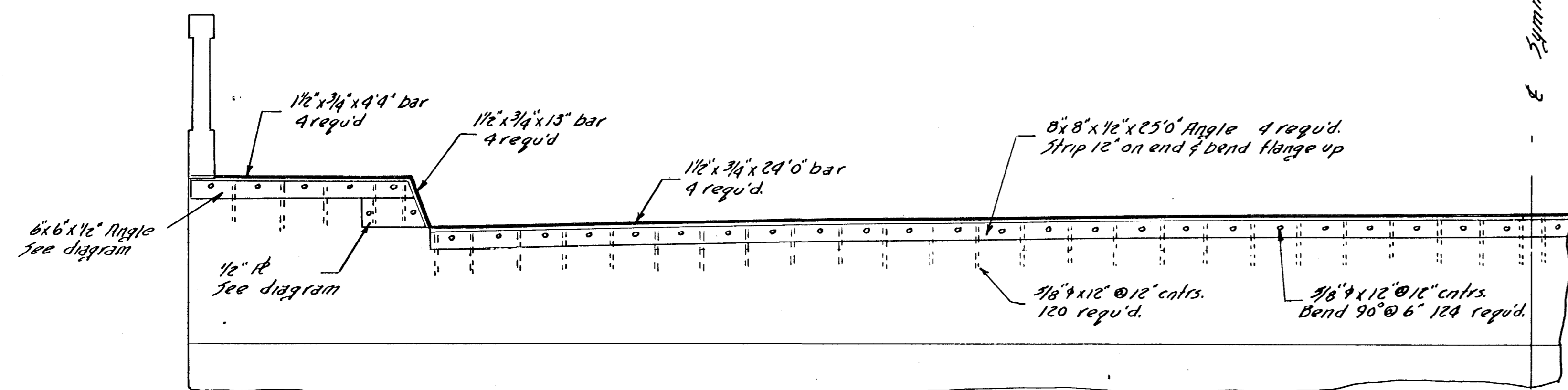
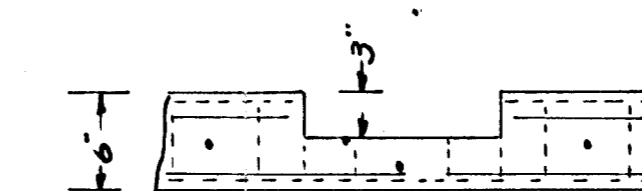
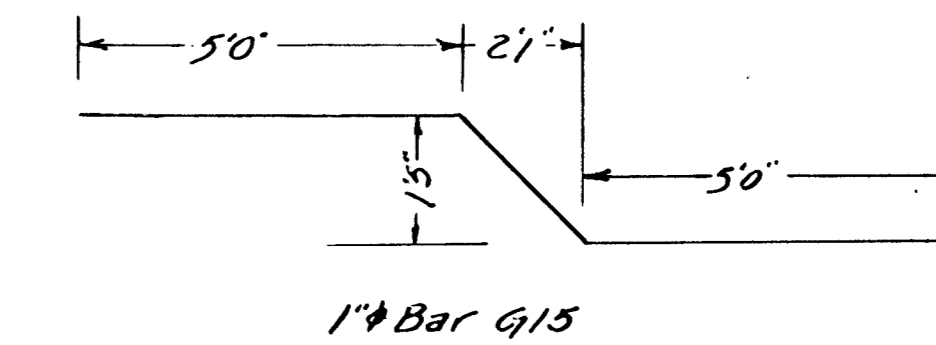
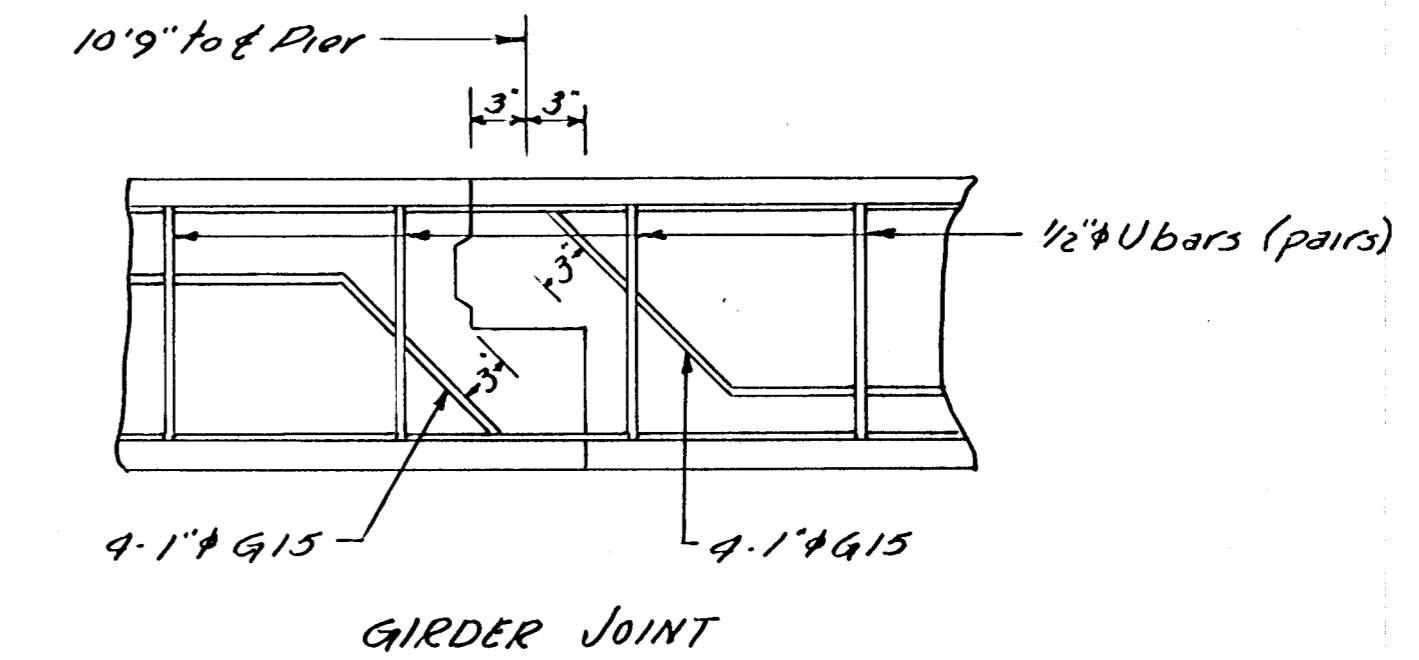
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
 COUNTY ENGINEER

REVISED 11-29-40	SCALE 1/2" = 1'0"	DESIGNED M.S. & R.J.	TRACED R.M.	CHECKED	SHEET NO.
DATE	PLANFILE	TOTAL SHEETS			

State	Fiscal Year	Sheet No.	Total Sheets
Kansas	1950	9	11

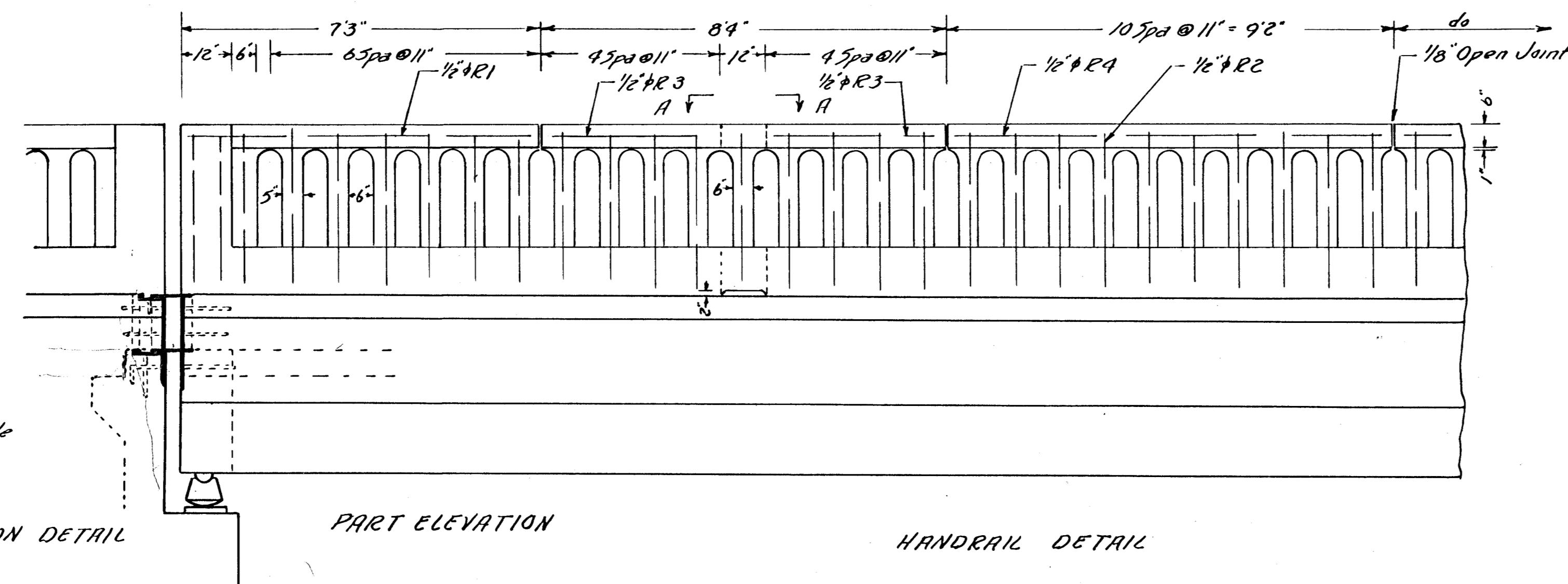


CONSTRUCTION JOINT DETAILS



Shop weld all anchor bars to R's & L's

Field welds all 3/16" both sides where possible

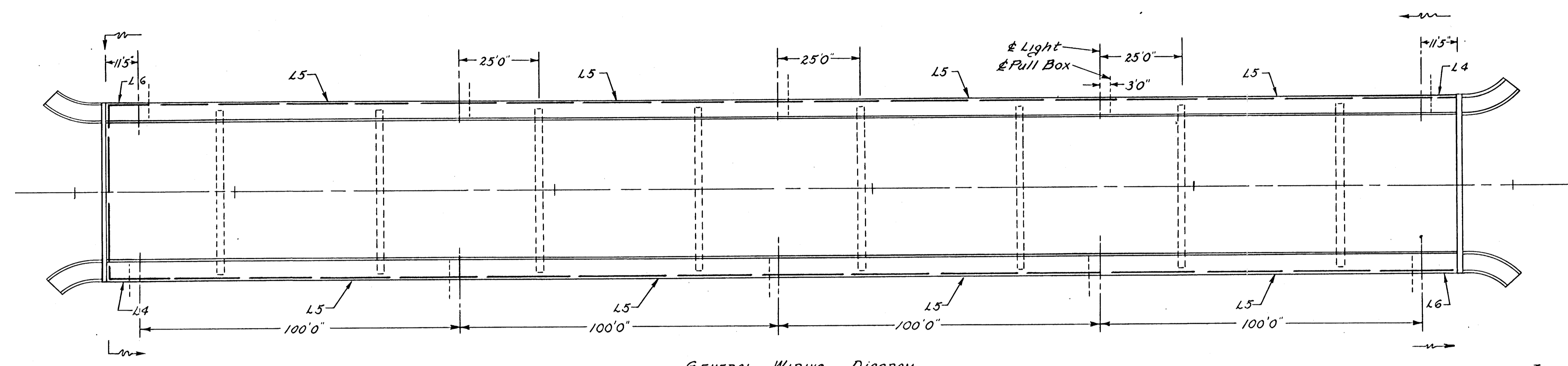


AUXILIARY DETAILS
 BRIDGE NO. 616-25-2371

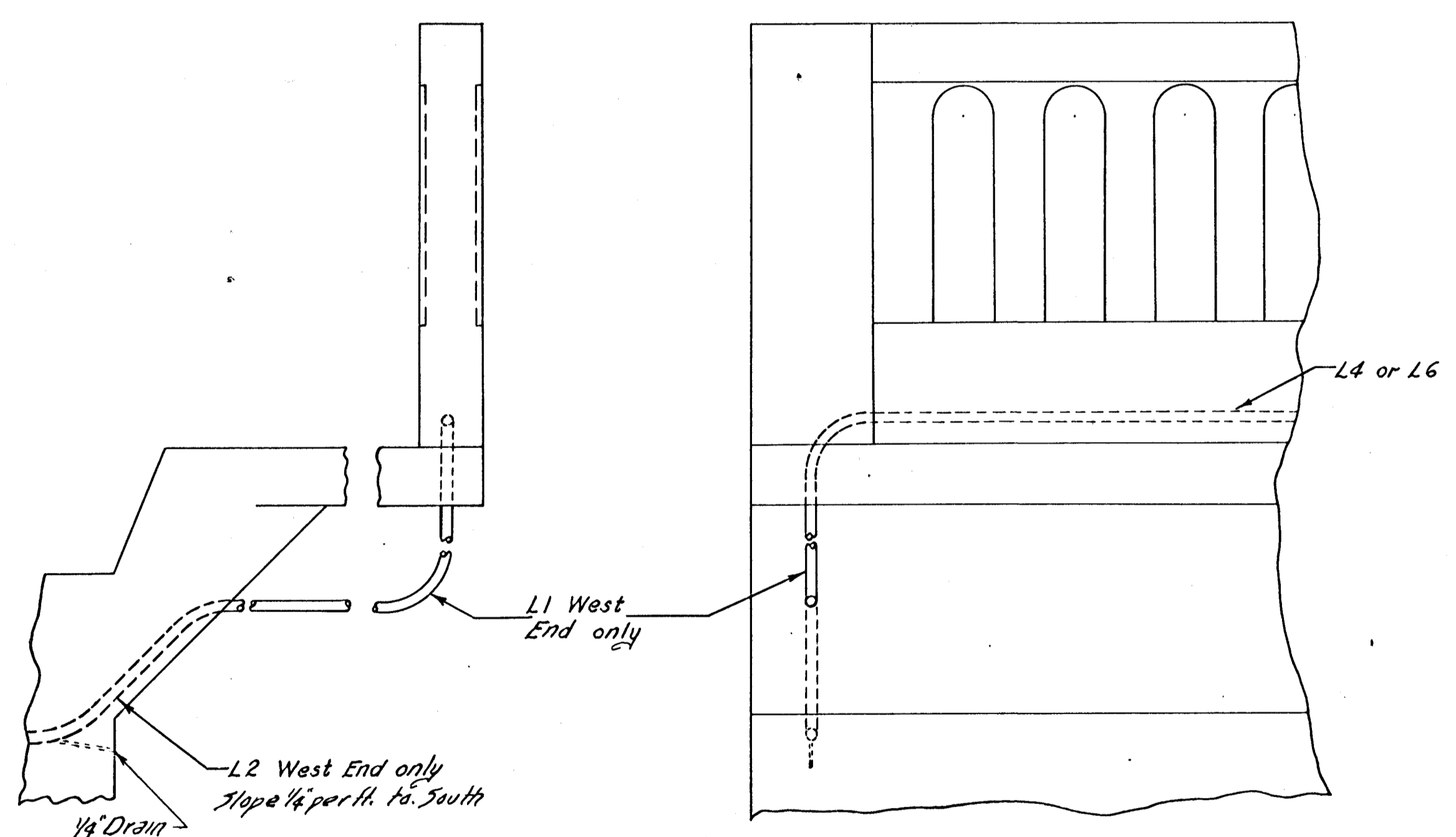
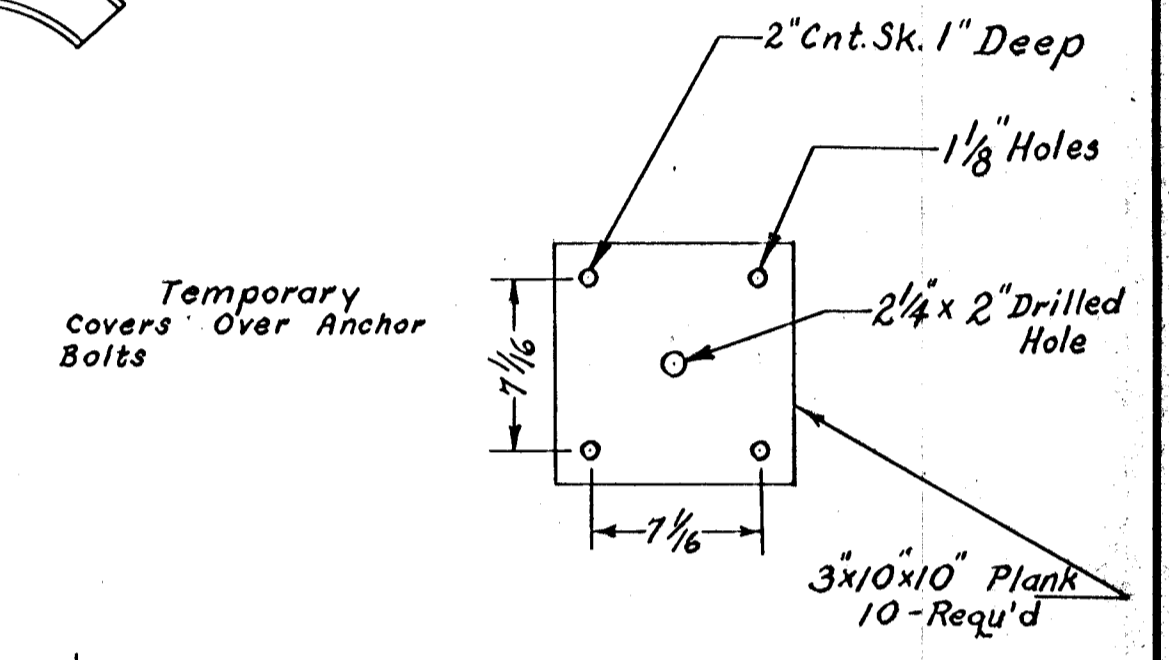
PREPARED BY
 SEDGWICK COUNTY ENGINEERING DEPT.
 RUFUS S. KIRK COUNTY ENGINEER

REVISION	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1" = 2'0"	M.E.S.	M.E.S.		
	DATE				
	PLANFILE	TOTAL SHEETS			

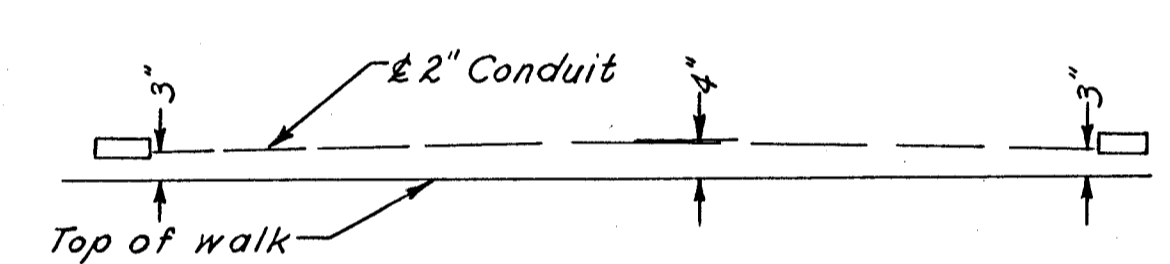
State		Fiscal Year	Sheet No.	Total Sheets
Kansas		1950	10	11



GENERAL WIRING DIAGRAM



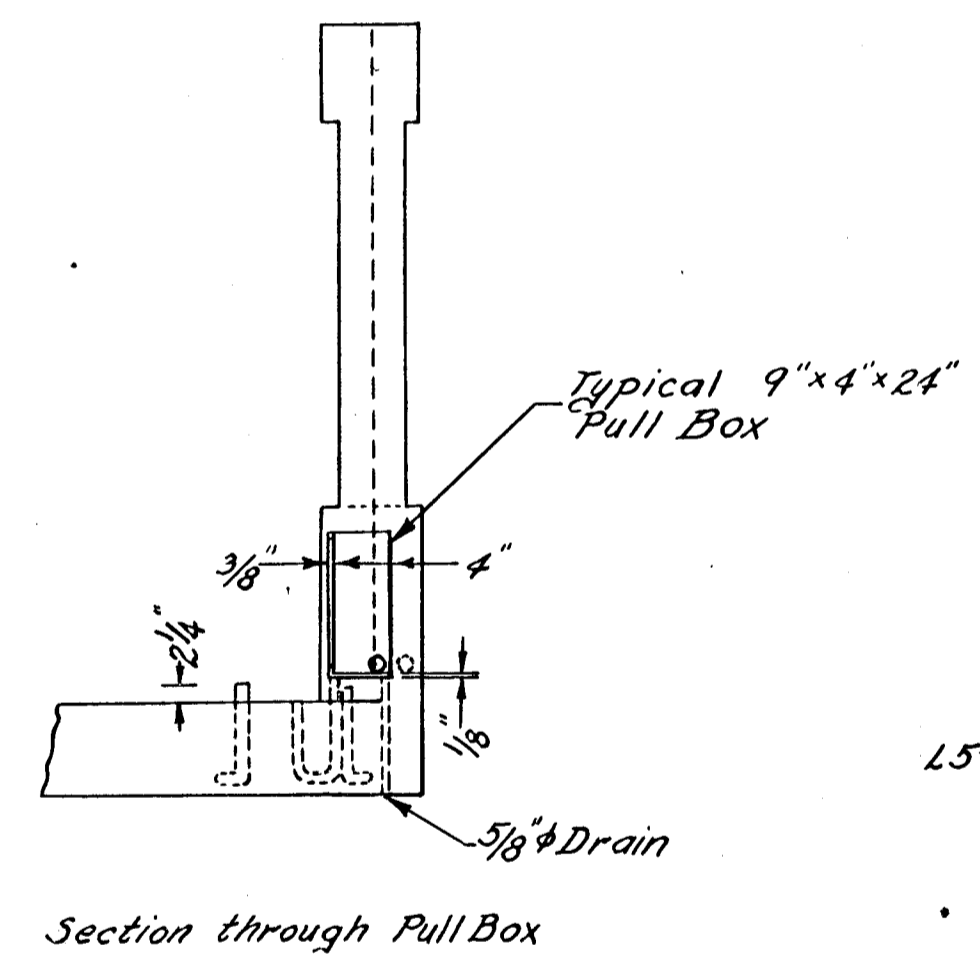
DETAIL AT ENDS OF BRIDGE



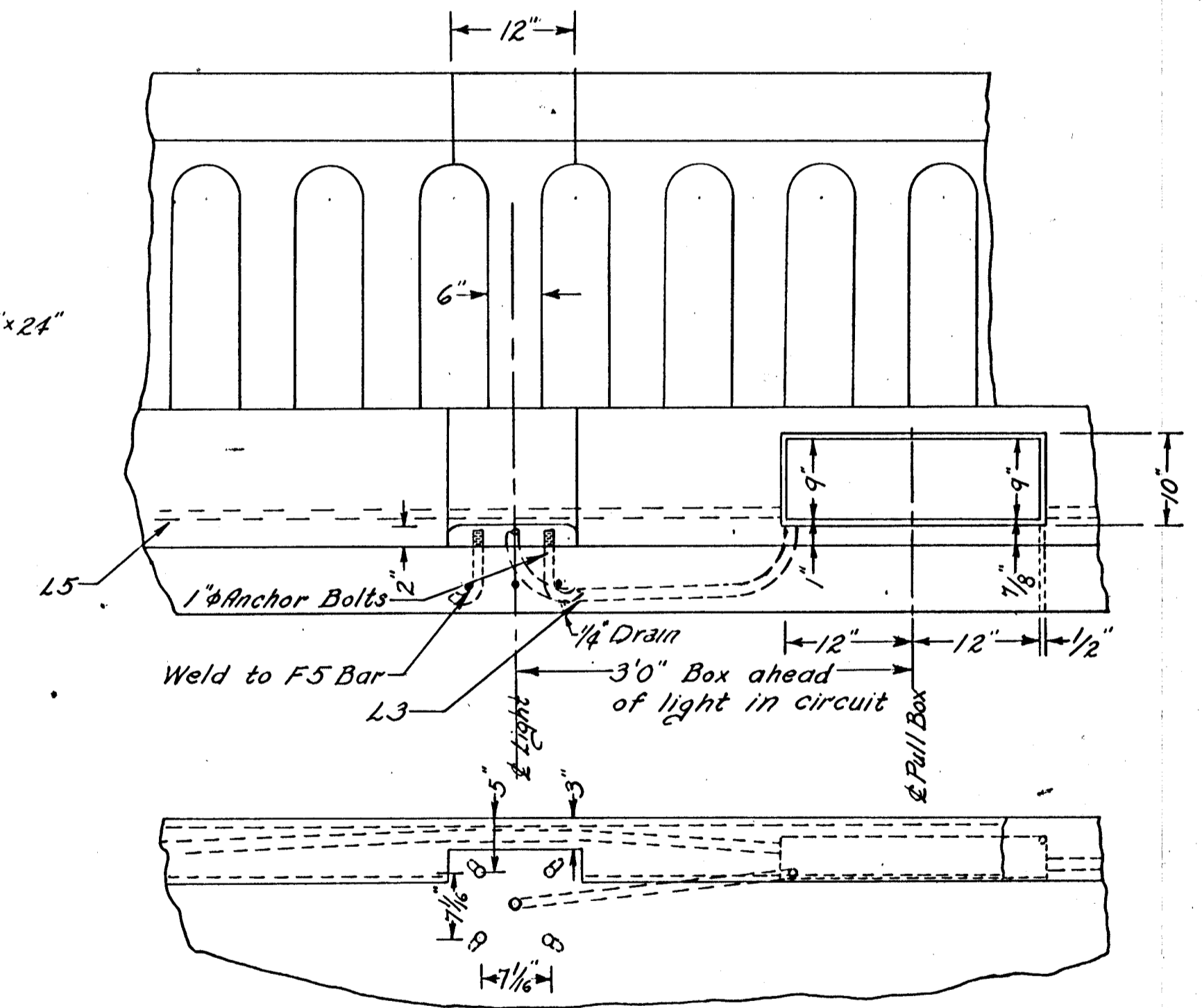
Typical Slope of Conduit between Pull Boxes

CONDUIT TABLE			
Symbol	No.	Length	Tot. Lgth
L1	2	4' 1 1/2"	8' 3"
L2	1	53' 4 1/2"	53' 4 1/2"
L3	10	1' 10 1/2"	18' 9"
L4	2	8' 1 1/2"	16' 3"
L5	8	100' 2"	801' 9"
L6	2	14' 1 1/2"	28' 3"
Total			928' 2 1/2"

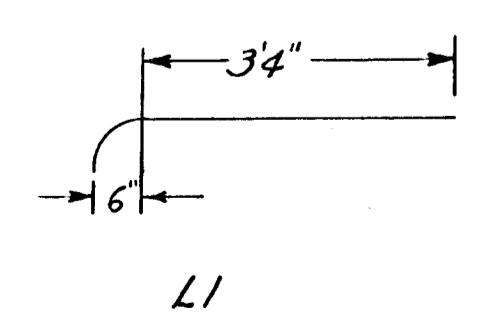
All conduit 2" non-metallic



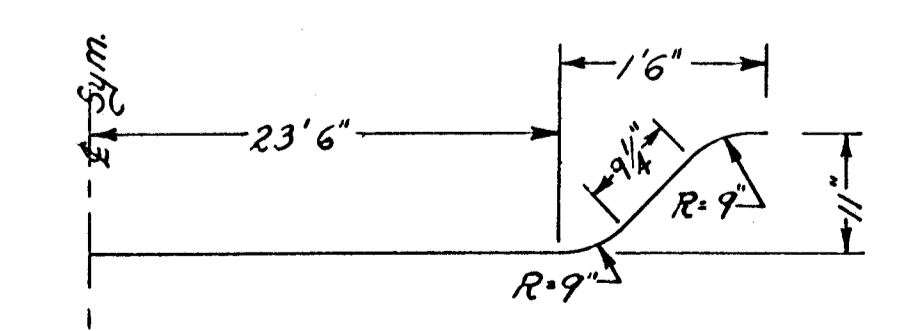
Section through Pull Box



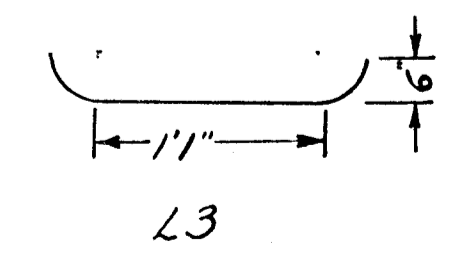
DETAIL AT PULL BOX AND LIGHT



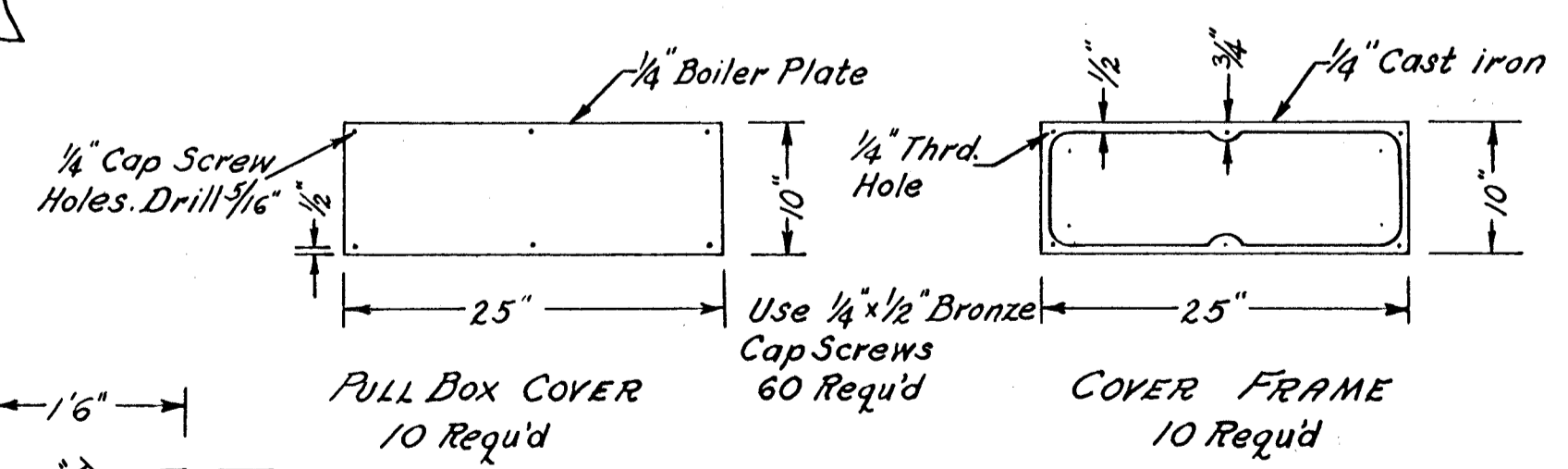
L1



L2

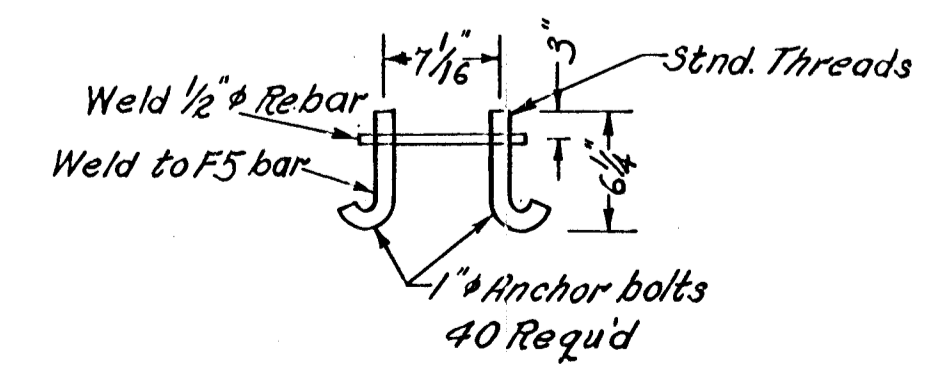


L3



PULL BOX COVER 10 Req'd

COVER FRAME 10 Req'd



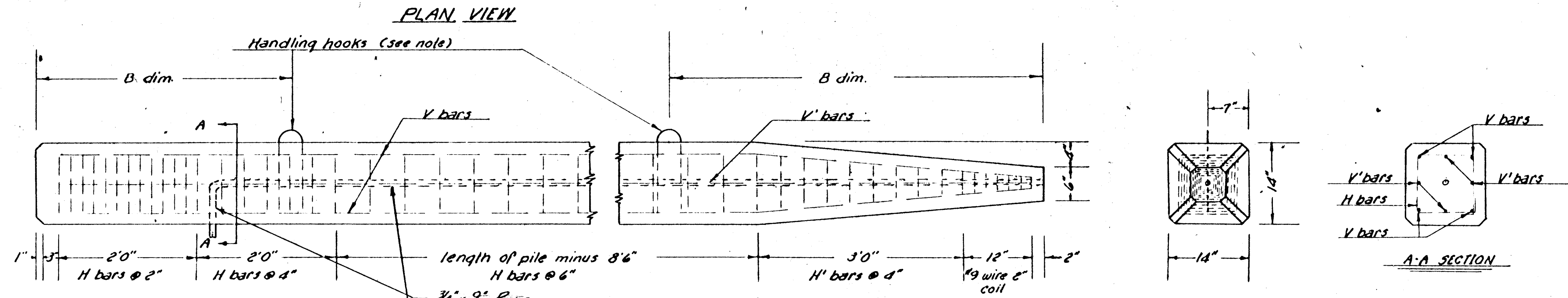
Weld 1/2" Rebar Weld to F5 bar 1" Anchor bolts 40 Req'd

LIGHTING DETAILS BRIDGE NO. 616-25-2371

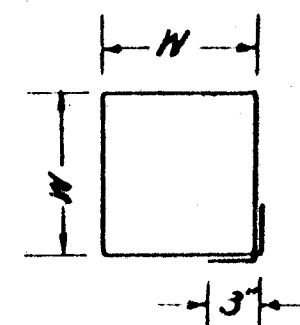
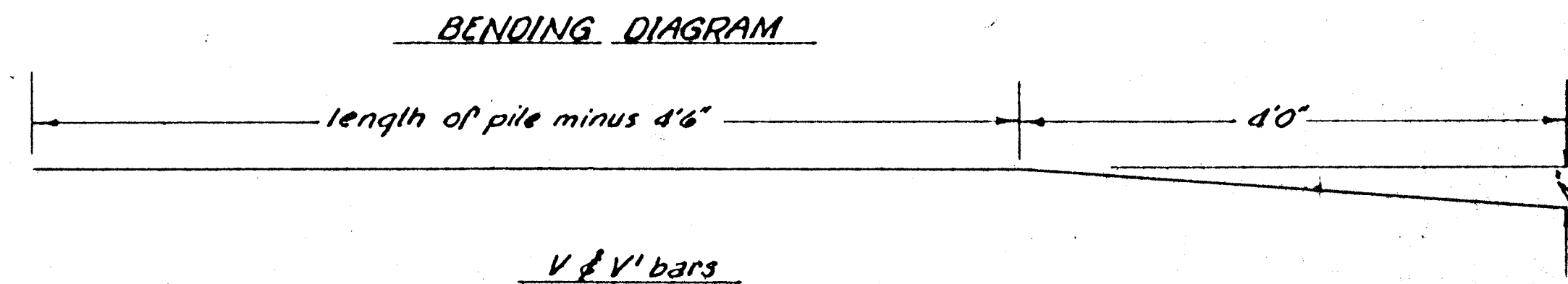
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

REVISION 11-24-50	SCALE	DESIGNED M.E.S.	TRACED C.D.H.	CHECKED	SHEET NO.
		DATE 10-50	10-25-50		
		PLANFILE	TOTAL SHEETS		

State	Fiscal Year	Sheet No.	Total Sheets
Kansas	1930	11	11



NOTE: Handling hooks are to be 1"x2"x9" rebar with loops large enough to accommodate attaching hooks.
 length of pile minus 8"
 H bars @ 6"
 1/4" x 9" Pipe
 1/4" Jetting Pipe, Length = Pile length minus 2"



W dim. in H bars = 10"
 in H bars decrease by
 decrements of 3/8"

GENERAL NOTES:
 Piling are to be constructed of class A concrete mix to be of such consistency that the concrete will be thoroughly compacted by tamping & vibrating. Piling are to be lifted with handling hooks (placed at B dim.) only. Top of piling must have a smooth and level surface, where not attained in forming, surface must be leveled by grinding or other suitable methods. All exposed edges are to have a 1" bevel.
 Piling should remain in forms for 14 days and cured for a minimum of 6 weeks before being driven.
 Piling are to be painted with suitable coating 5" above & 5" below normal water line.
 Each pile shall be stamped or marked with the date of its manufacture.
 All steel shall have 2" cover unless otherwise noted.

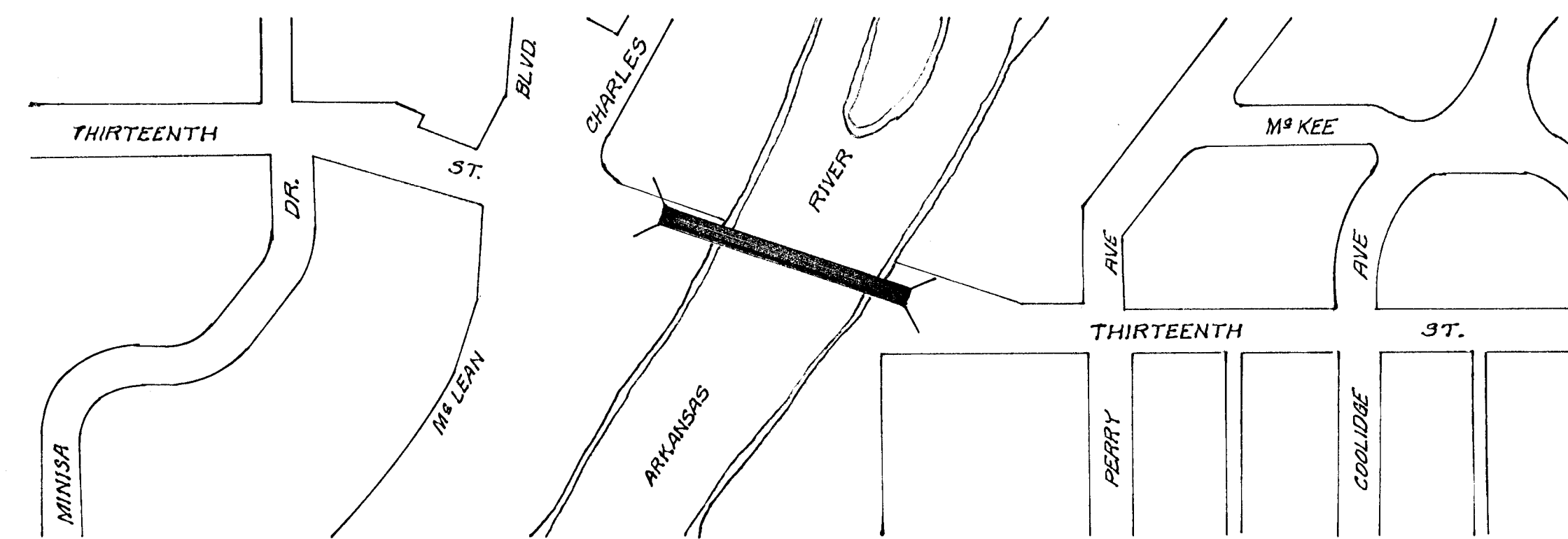
BILL OF MATERIAL											
20" PILE						32" PILE					
Bar	V	V'	H	H'		Bar	V	V'	H	H'	
Number	4		43	9		Number	4		47	9	
Size	3/8"		3/8"	3/8"		Size	3/8"		3/8"	3/8"	
Length	20'0"		4'0"	Var.		Length	32'0"		4'0"	Var.	
B dim.	14"					B dim.	14"				
Total Steel	158'					Total Steel	303'				
Concrete	1.04 Cu Yds.					Concrete	1.62 Cu Yds.				
24" PILE						36" PILE					
Bar	V	V'	H	H'		Bar	V	V'	H	H'	
Number	4		51	9		Number	4		75	9	
Size	3/8"		3/8"	3/8"		Size	3/8"		3/8"	3/8"	
Length	24'0"		4'0"	Var.		Length	36'0"		4'0"	Var.	
B dim.	14"					B dim.	14"				
Total Steel	187'					Total Steel	339'				
Concrete	1.23 Cu Yds.					Concrete	1.86 Cu Yds.				
28" PILE						40" PILE					
Bar	V	V'	H	H'		Bar	V	V'	H	H'	
Number	4		59	9		Number	4		83	9	
Size	3/8"		3/8"	3/8"		Size	3/8"		3/8"	3/8"	
Length	28'0"		4'0"	Var.		Length	40'0"		4'0"	Var.	
B dim.	14"					B dim.	14"				
Total Steel	217'					Total Steel	415'				
Concrete	1.45 Cu Yds.					Concrete	2.06 Cu Yds.				

CONCRETE PILING 14" X 14"

PREPARED BY
 SEDGWICK COUNTY ENGINEERING DEPT.
 H. J. GREELEY COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=10'	Baskett	Manion	H. J. G.	
	DATE	12-47		12-17-47	
PLANFILE	TOTAL SHEETS				

13th STREET BRIDGE OVER BIG ARKANSAS RIVER
 BRIDGE ABUTMENT REPAIR
 PROJ. NO. DAKB 572018
 CITY OF WICHITA, KANSAS
 R. W. LINN, CITY ENGINEER



GENERAL NOTES:

1. THE LUMP SUM BID ITEM OF "ABUTMENT REPAIR" SHALL INCLUDE ALL COSTS OF:
 - A. REMOVAL & RECONSTRUCTION OF WEST ABUTMENT & WINGWALLS AS DETAILED.
 - B. REMOVAL & REPLACEMENT OF CONCRETE PAVEMENT, CONCRETE CURBS, & CONCRETE SIDEWALK.
 - C. REPAIR OF EAST ABUTMENT PARAPET WALL.
 - D. EXCAVATION & COMPACTION OF EMBANKMENT AS REQUIRED.
 - E. INSTALLATION OF 5" NEOPRENE CELL EXPANSION DEVICE.
 - F. REMOVAL & REPLACEMENT OF BRIDGE ROCKERS & ROCKER PLATES AT BOTH ABUTMENTS.
 - G. EPOXY REPAIR OF THE FRACTURES IN THE WEST ABUTMENT BELOW THE BRIDGE SEAT.
2. LOADING H-20-44 A.A.S.H.O. DESIGN STRESS $f_c = 20000 \text{ psi}$, $f_s = 30000 \text{ psi}$, $n = 9$. CLASS A-AE CONCRETE TO BE USED THROUGHOUT. BEVEL ALL EXPOSED EDGES WITH $\frac{3}{8}$ " Δ MOULDING UNLESS OTHERWISE NOTED.
3. ANY DAMAGE TO THE EXISTING STRUCTURE DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
4. ALL ACCESSIBLE PARTS OF THE STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF TINTED ALUMINUM PAINT FOLLOWED BY ONE COAT OF ALUMINUM PAINT AFTER ERECTION. (STRUCTURAL STEEL AT ABUTMENTS ONLY.)
5. SHOP PAINTING OF ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN SECTIONS F2-5(c), Q₁, & Q₂ OF THE "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION".
6. FIELD PAINTING OF ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN SECTION F2-6(c) OF THE "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION".
7. ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN SECTION U5-2 OF THE "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION".
8. GROUTING REINFORCING STEEL IN OLD CONCRETE SHALL CONFORM TO PARAGRAPH 66P-17 OF "SUPPLEMENT NUMBER ONE TO THE STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1970 EDITION".
9. THOROUGHLY SWAB THE BRIDGE-SEAT BEARING AREA WITH RED LEAD PAINT AND PLACE UPON IT THREE LAYERS OF TWELVE TO FOURTEEN OUNCE DUCK, EACH LAYER BEING THOROUGHLY SWABBED ON ITS TOP SURFACE WITH RED LEAD PAINT. PLACE THE SUPERSTRUCTURE SHOES OR PEDESTALS IN POSITION WHILE THE PAINT IS PLASTIC.
10. FORMWORK, CONCRETE MATERIALS, & CONCRETE PROPORTIONS SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION".
11. CONTRACTOR TO BLOCK OUT FOR PROPOSED ELECTRICAL CONDUITS AT WEST ABUTMENT. CONTRACTOR TO CONTACT KANSAS GAS & ELECTRIC COMPANY FOR LOCATION OF CONDUITS.

