







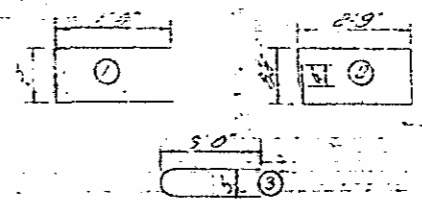
Rule Of Materials For One Beam				
Bar #	Size	Length	Weight	
1	1/2"	7' 0"	27	
2	3/4"	7' 0"	37	
3	1"	7' 0"	47	
4	1 1/4"	7' 0"	62	
5	1 1/2"	7' 0"	77	
6	2"	7' 0"	112	
7	2 1/2"	7' 0"	157	
8	3"	7' 0"	212	
9	3 1/2"	7' 0"	277	
10	4"	7' 0"	352	
11	4 1/2"	7' 0"	437	
12	5"	7' 0"	532	
13	5 1/2"	7' 0"	637	
14	6"	7' 0"	752	
15	6 1/2"	7' 0"	877	
16	7"	7' 0"	1012	
17	7 1/2"	7' 0"	1157	
18	8"	7' 0"	1312	
19	8 1/2"	7' 0"	1477	
20	9"	7' 0"	1652	
21	9 1/2"	7' 0"	1837	
22	10"	7' 0"	2032	
23	10 1/2"	7' 0"	2237	
24	11"	7' 0"	2452	
25	11 1/2"	7' 0"	2677	
26	12"	7' 0"	2912	
27	12 1/2"	7' 0"	3157	
28	13"	7' 0"	3412	
29	13 1/2"	7' 0"	3677	
30	14"	7' 0"	3952	
31	14 1/2"	7' 0"	4237	
32	15"	7' 0"	4532	
33	15 1/2"	7' 0"	4837	
34	16"	7' 0"	5152	
35	16 1/2"	7' 0"	5477	
36	17"	7' 0"	5812	
37	17 1/2"	7' 0"	6157	
38	18"	7' 0"	6512	
39	18 1/2"	7' 0"	6877	
40	19"	7' 0"	7252	
41	19 1/2"	7' 0"	7637	
42	20"	7' 0"	8032	
43	20 1/2"	7' 0"	8437	
44	21"	7' 0"	8852	
45	21 1/2"	7' 0"	9277	
46	22"	7' 0"	9712	
47	22 1/2"	7' 0"	10157	
48	23"	7' 0"	10612	
49	23 1/2"	7' 0"	11077	
50	24"	7' 0"	11552	
51	24 1/2"	7' 0"	12037	
52	25"	7' 0"	12532	
53	25 1/2"	7' 0"	13037	
54	26"	7' 0"	13552	
55	26 1/2"	7' 0"	14077	
56	27"	7' 0"	14612	
57	27 1/2"	7' 0"	15157	
58	28"	7' 0"	15712	
59	28 1/2"	7' 0"	16277	
60	29"	7' 0"	16852	
61	29 1/2"	7' 0"	17437	
62	30"	7' 0"	18032	
63	30 1/2"	7' 0"	18637	
64	31"	7' 0"	19252	
65	31 1/2"	7' 0"	19877	
66	32"	7' 0"	20512	
67	32 1/2"	7' 0"	21157	
68	33"	7' 0"	21812	
69	33 1/2"	7' 0"	22477	
70	34"	7' 0"	23152	
71	34 1/2"	7' 0"	23837	
72	35"	7' 0"	24532	
73	35 1/2"	7' 0"	25237	
74	36"	7' 0"	25952	
75	36 1/2"	7' 0"	26677	
76	37"	7' 0"	27412	
77	37 1/2"	7' 0"	28157	
78	38"	7' 0"	28912	
79	38 1/2"	7' 0"	29677	
80	39"	7' 0"	30452	
81	39 1/2"	7' 0"	31237	
82	40"	7' 0"	32032	
83	40 1/2"	7' 0"	32837	
84	41"	7' 0"	33652	
85	41 1/2"	7' 0"	34477	
86	42"	7' 0"	35312	
87	42 1/2"	7' 0"	36157	
88	43"	7' 0"	37012	
89	43 1/2"	7' 0"	37877	
90	44"	7' 0"	38752	
91	44 1/2"	7' 0"	39637	
92	45"	7' 0"	40532	
93	45 1/2"	7' 0"	41437	
94	46"	7' 0"	42352	
95	46 1/2"	7' 0"	43277	
96	47"	7' 0"	44212	
97	47 1/2"	7' 0"	45157	
98	48"	7' 0"	46112	
99	48 1/2"	7' 0"	47077	
100	49"	7' 0"	48052	
101	49 1/2"	7' 0"	49037	
102	50"	7' 0"	50032	
103	50 1/2"	7' 0"	51037	
104	51"	7' 0"	52052	
105	51 1/2"	7' 0"	53077	
106	52"	7' 0"	54112	
107	52 1/2"	7' 0"	55157	
108	53"	7' 0"	56212	
109	53 1/2"	7' 0"	57277	
110	54"	7' 0"	58352	
111	54 1/2"	7' 0"	59437	
112	55"	7' 0"	60532	
113	55 1/2"	7' 0"	61637	
114	56"	7' 0"	62752	
115	56 1/2"	7' 0"	63877	
116	57"	7' 0"	65012	
117	57 1/2"	7' 0"	66157	
118	58"	7' 0"	67312	
119	58 1/2"	7' 0"	68477	
120	59"	7' 0"	69652	
121	59 1/2"	7' 0"	70837	
122	60"	7' 0"	72032	
123	60 1/2"	7' 0"	73237	
124	61"	7' 0"	74452	
125	61 1/2"	7' 0"	75677	
126	62"	7' 0"	76912	
127	62 1/2"	7' 0"	78157	
128	63"	7' 0"	79412	
129	63 1/2"	7' 0"	80677	
130	64"	7' 0"	81952	
131	64 1/2"	7' 0"	83237	
132	65"	7' 0"	84532	
133	65 1/2"	7' 0"	85837	
134	66"	7' 0"	87152	
135	66 1/2"	7' 0"	88477	
136	67"	7' 0"	89812	
137	67 1/2"	7' 0"	91157	
138	68"	7' 0"	92512	
139	68 1/2"	7' 0"	93877	
140	69"	7' 0"	95252	
141	69 1/2"	7' 0"	96637	
142	70"	7' 0"	98032	
143	70 1/2"	7' 0"	99437	
144	71"	7' 0"	100852	
145	71 1/2"	7' 0"	102277	
146	72"	7' 0"	103712	
147	72 1/2"	7' 0"	105157	
148	73"	7' 0"	106612	
149	73 1/2"	7' 0"	108077	
150	74"	7' 0"	109552	
151	74 1/2"	7' 0"	111037	
152	75"	7' 0"	112532	
153	75 1/2"	7' 0"	114037	
154	76"	7' 0"	115552	
155	76 1/2"	7' 0"	117077	
156	77"	7' 0"	118612	
157	77 1/2"	7' 0"	120157	
158	78"	7' 0"	121712	
159	78 1/2"	7' 0"	123277	
160	79"	7' 0"	124852	
161	79 1/2"	7' 0"	126437	
162	80"	7' 0"	128032	
163	80 1/2"	7' 0"	129637	
164	81"	7' 0"	131252	
165	81 1/2"	7' 0"	132877	
166	82"	7' 0"	134512	
167	82 1/2"	7' 0"	136157	
168	83"	7' 0"	137812	
169	83 1/2"	7' 0"	139477	
170	84"	7' 0"	141152	
171	84 1/2"	7' 0"	142837	
172	85"	7' 0"	144532	
173	85 1/2"	7' 0"	146237	
174	86"	7' 0"	147952	
175	86 1/2"	7' 0"	149677	
176	87"	7' 0"	151412	
177	87 1/2"	7' 0"	153157	
178	88"	7' 0"	154912	
179	88 1/2"	7' 0"	156677	
180	89"	7' 0"	158452	
181	89 1/2"	7' 0"	160237	
182	90"	7' 0"	162032	
183	90 1/2"	7' 0"	163837	
184	91"	7' 0"	165652	
185	91 1/2"	7' 0"	167477	
186	92"	7' 0"	169312	
187	92 1/2"	7' 0"	171157	
188	93"	7' 0"	173012	
189	93 1/2"	7' 0"	174877	
190	94"	7' 0"	176752	
191	94 1/2"	7' 0"	178637	
192	95"	7' 0"	180532	
193	95 1/2"	7' 0"	182437	
194	96"	7' 0"	184352	
195	96 1/2"	7' 0"	186277	
196	97"	7' 0"	188212	
197	97 1/2"	7' 0"	190157	
198	98"	7' 0"	192112	
199	98 1/2"	7' 0"	194077	
200	99"	7' 0"	196052	
201	99 1/2"	7' 0"	198037	
202	100"	7' 0"	200032	

in order to be  
sections of 1/2"  
1/4" bearing  
add 1/2" of end  
apartment  
the removal of concrete  
be carefully checked and  
actual width within which  
proper finishing of steel plates

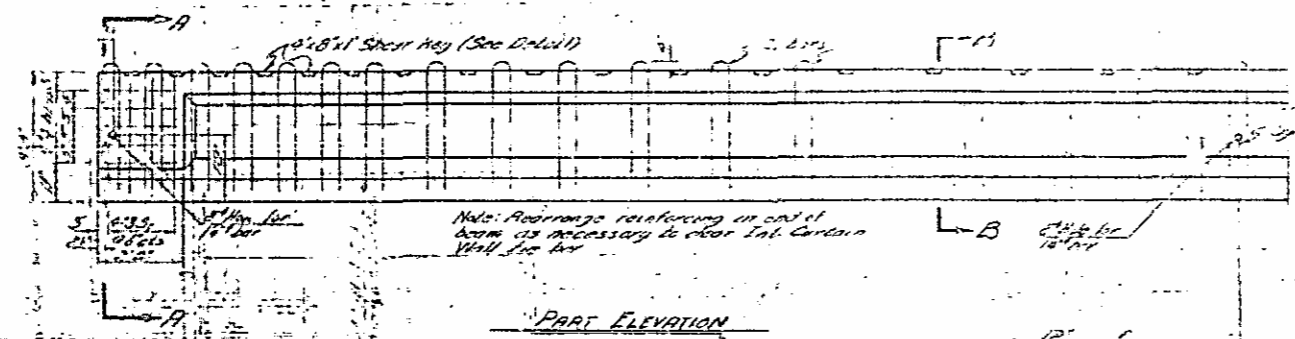
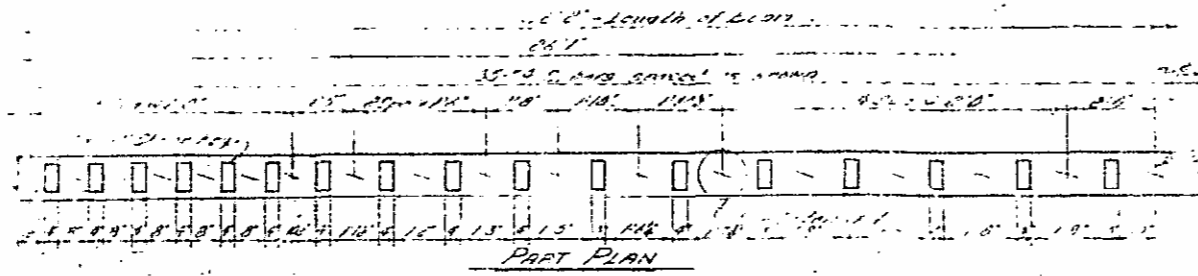
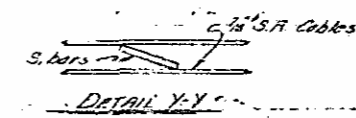
The plates and bolts shall be removed  
according to the Special Provisions

Handlings in the handling of beams they shall  
be kept in an upright position at all times  
and must be picked up from points with  
solid bearing blocks of the beam  
designated of this requirement and any  
the member

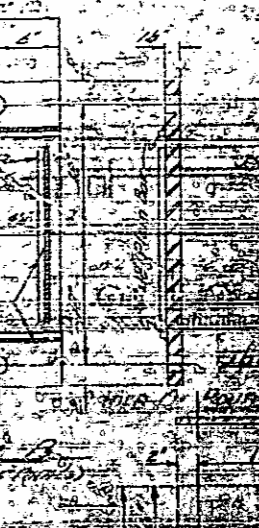
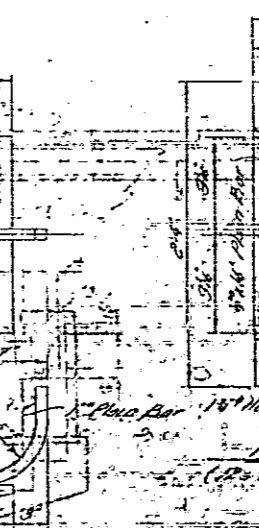
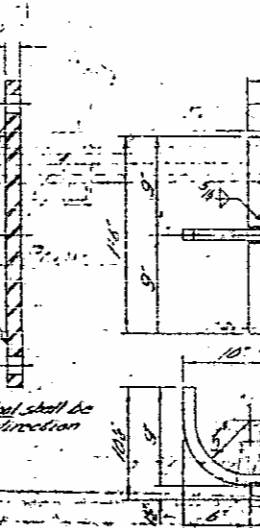
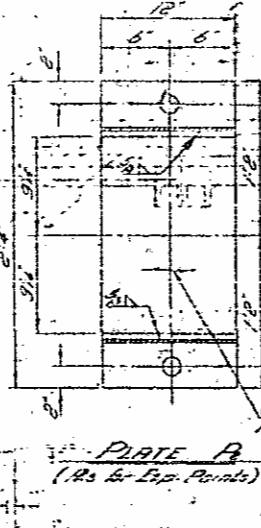
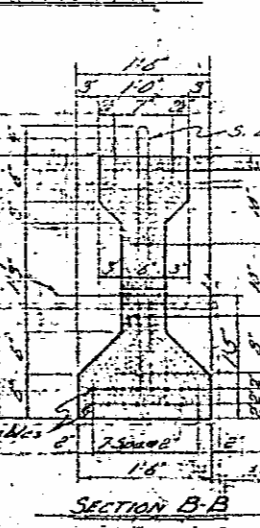
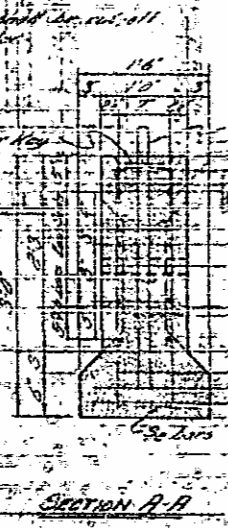
Bearing plates and bolts will not be used for  
them. They shall be included in the bill of materials  
3/4" x 1/2" x 1/2" Pressed Steel  
3/4" x 1/2" x 1/2"



**BAR TYPES**  
All dimensions are out to out of bars



Note: The 6 1/4" S.A. Cables shall be cut off  
within 2' of end of girder



**PLATE A**  
(As for Exp. Points)

**PLATE B**  
(As for Exp. Points)

**PLATE C**

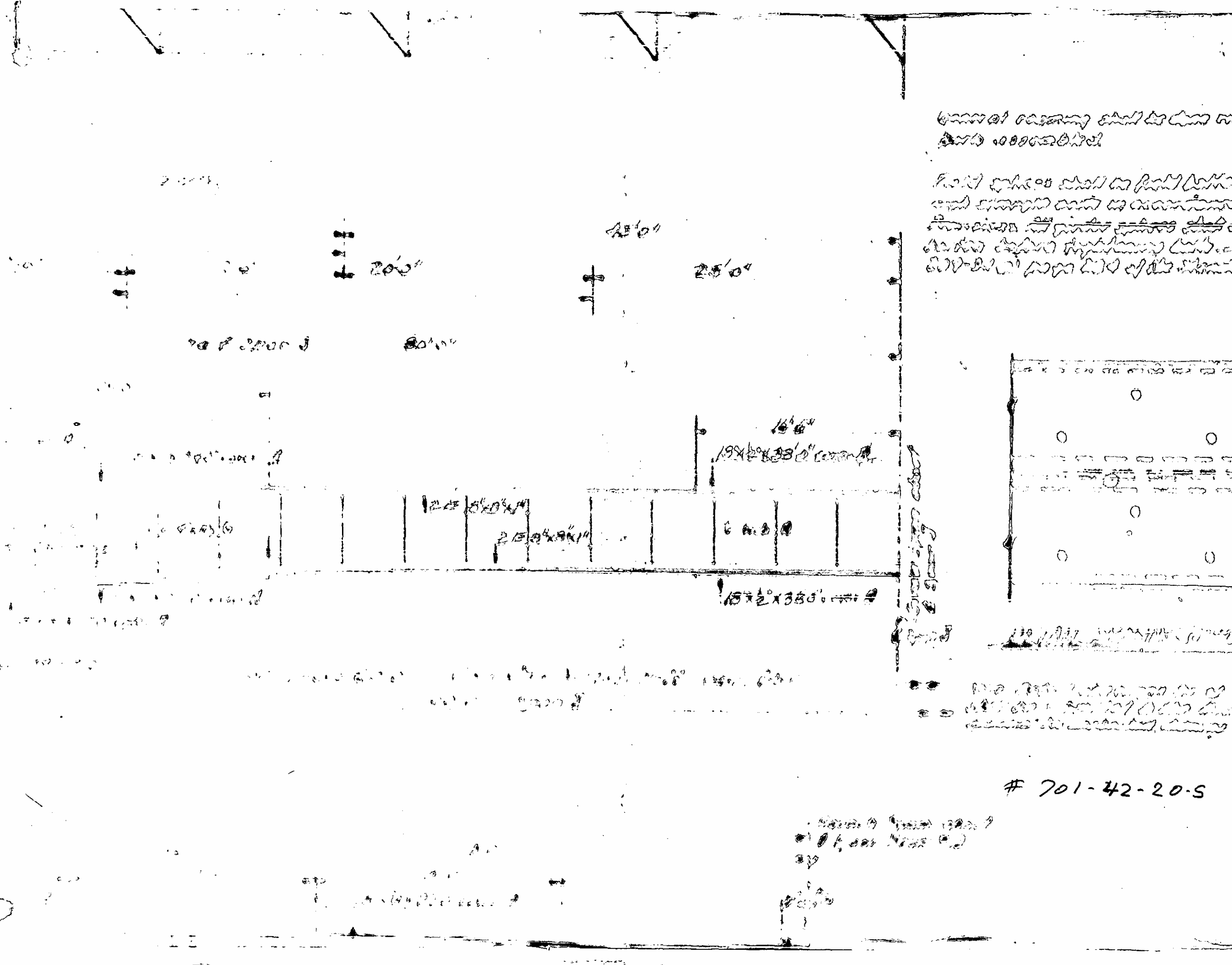
**BEARING PLATE DETAILS**

PROJECT NO. 3183  
COUNTY  
HIGHWAY AND  
PARKS COMMISSION  
STRUCTURE  
1966

PROJECT  
STATE  
PUBLIC

General casing shall be done with  
200' casing

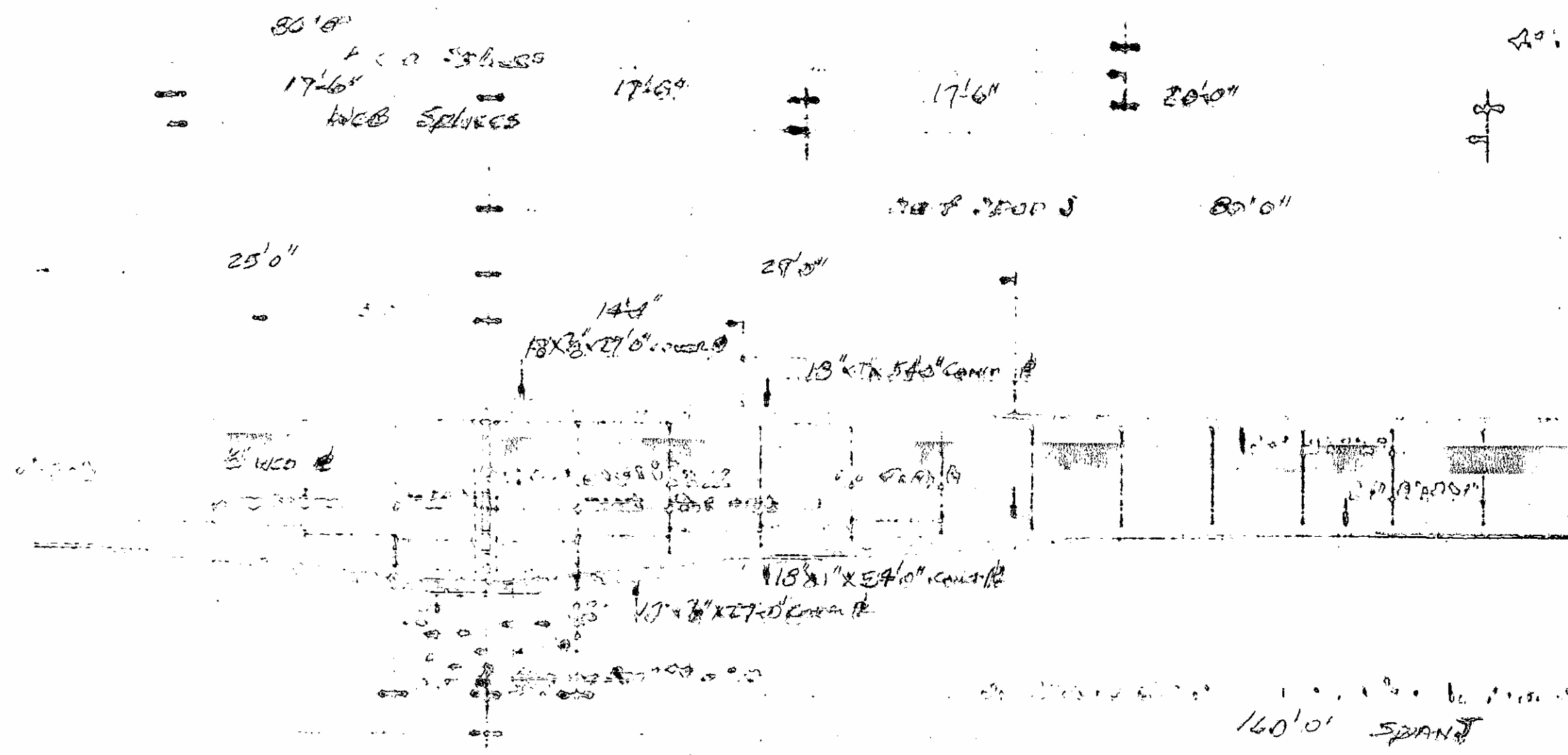
Field office shall be built within  
and should not be maximum  
maximum of 100' from the  
center of the field office  
200' from the center of the field office



# 701-42-20-S

200' casing  
15' x 2' x 330' casing

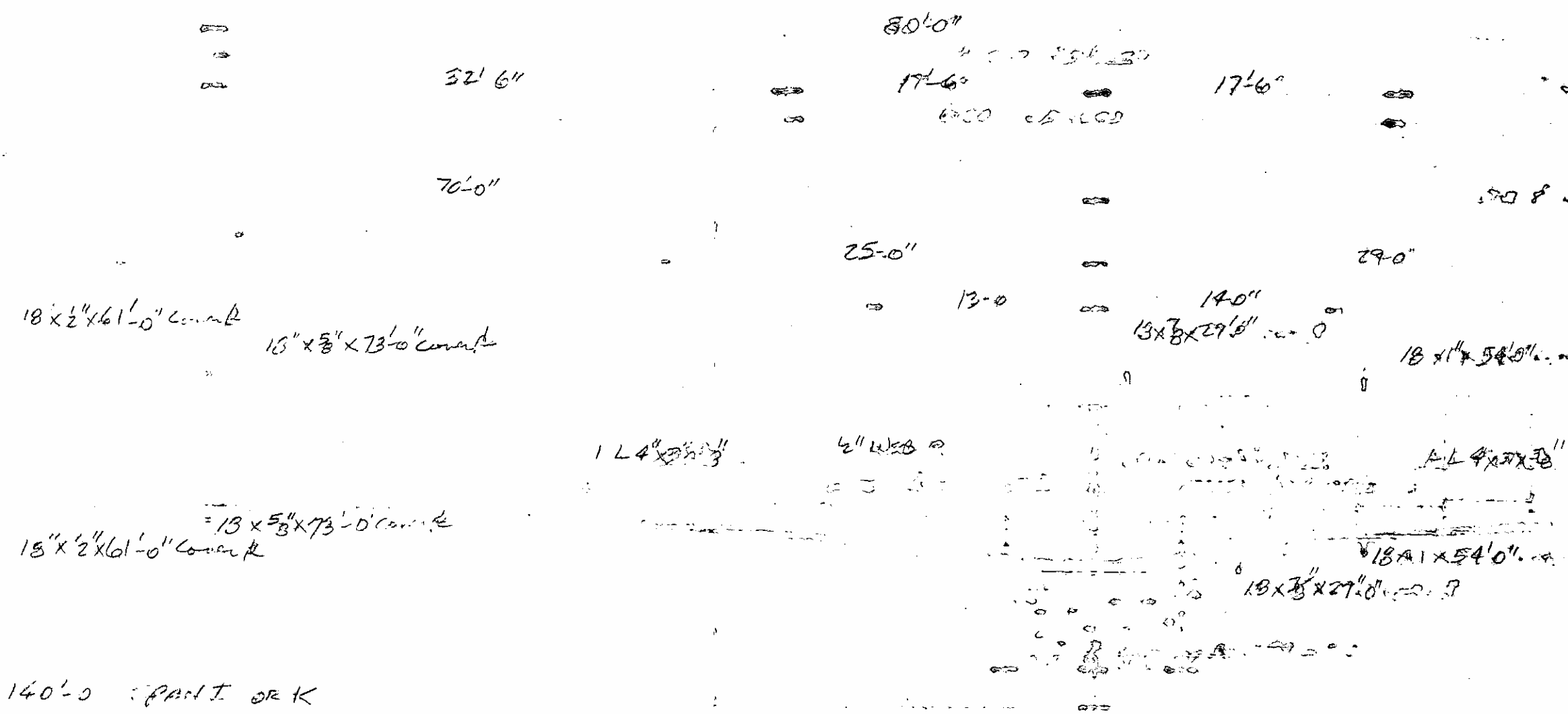
# HALF PLAN



HALF PLAN

HALE PLAN

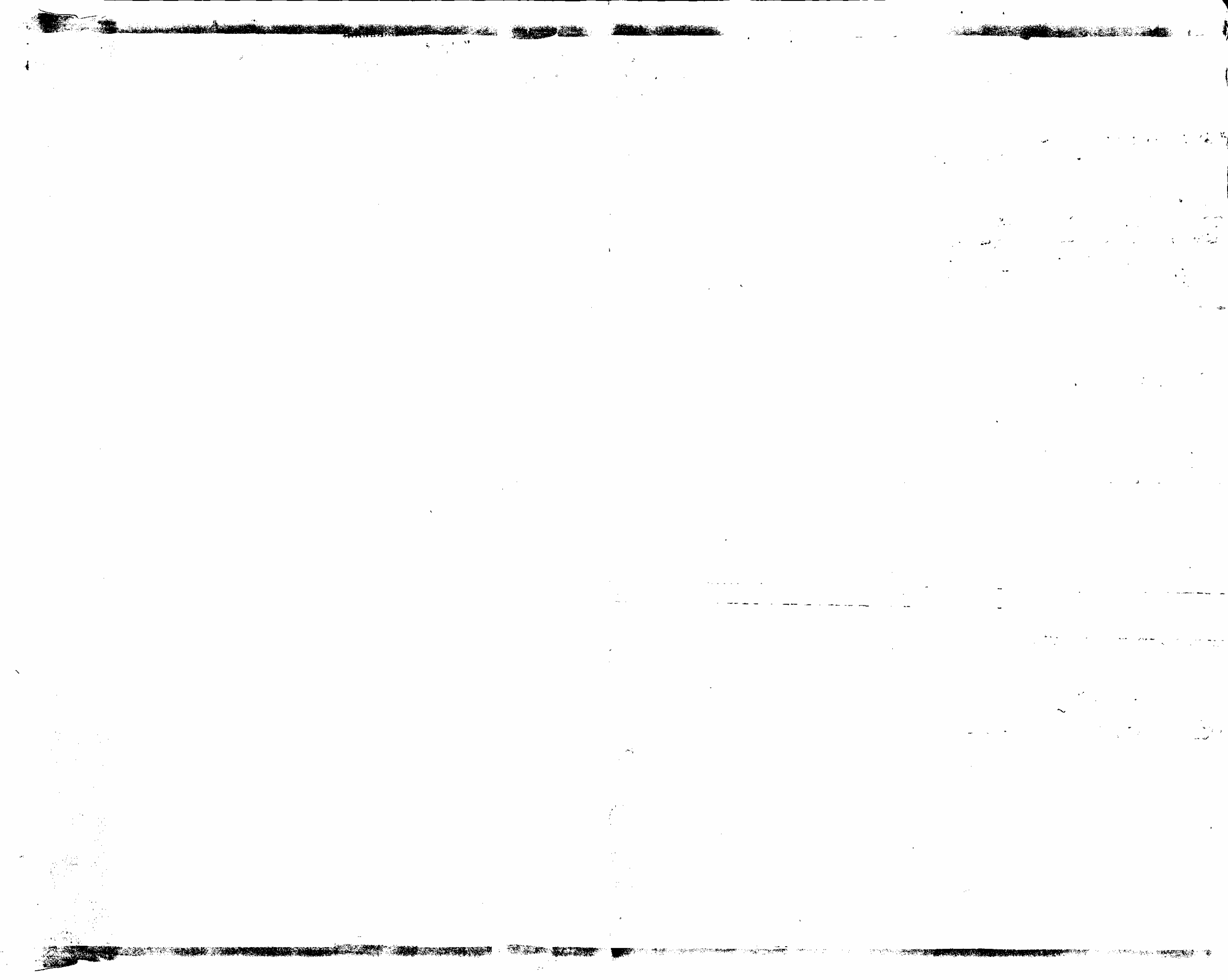
8800 20 21 8800 20 21 8800 20 21

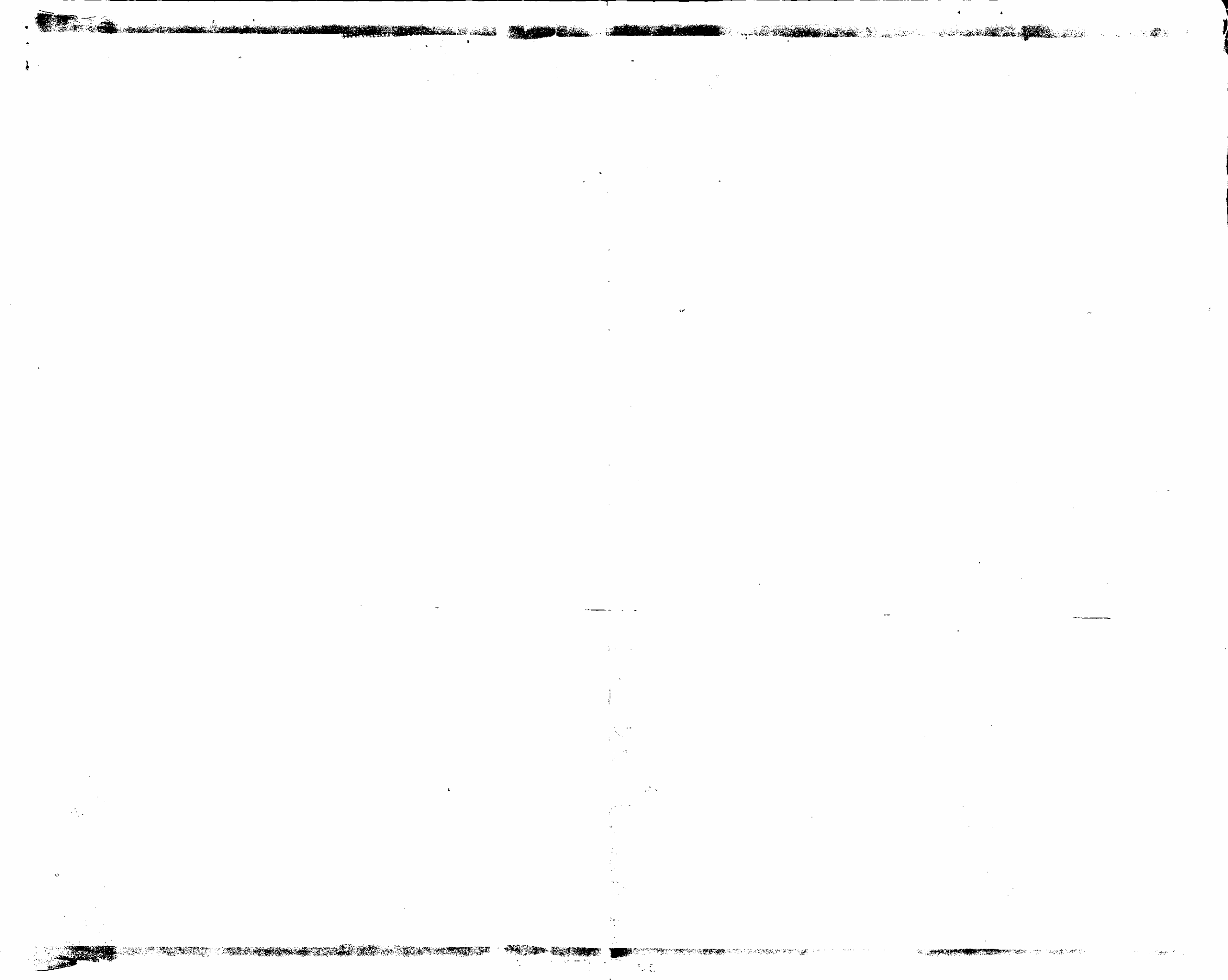


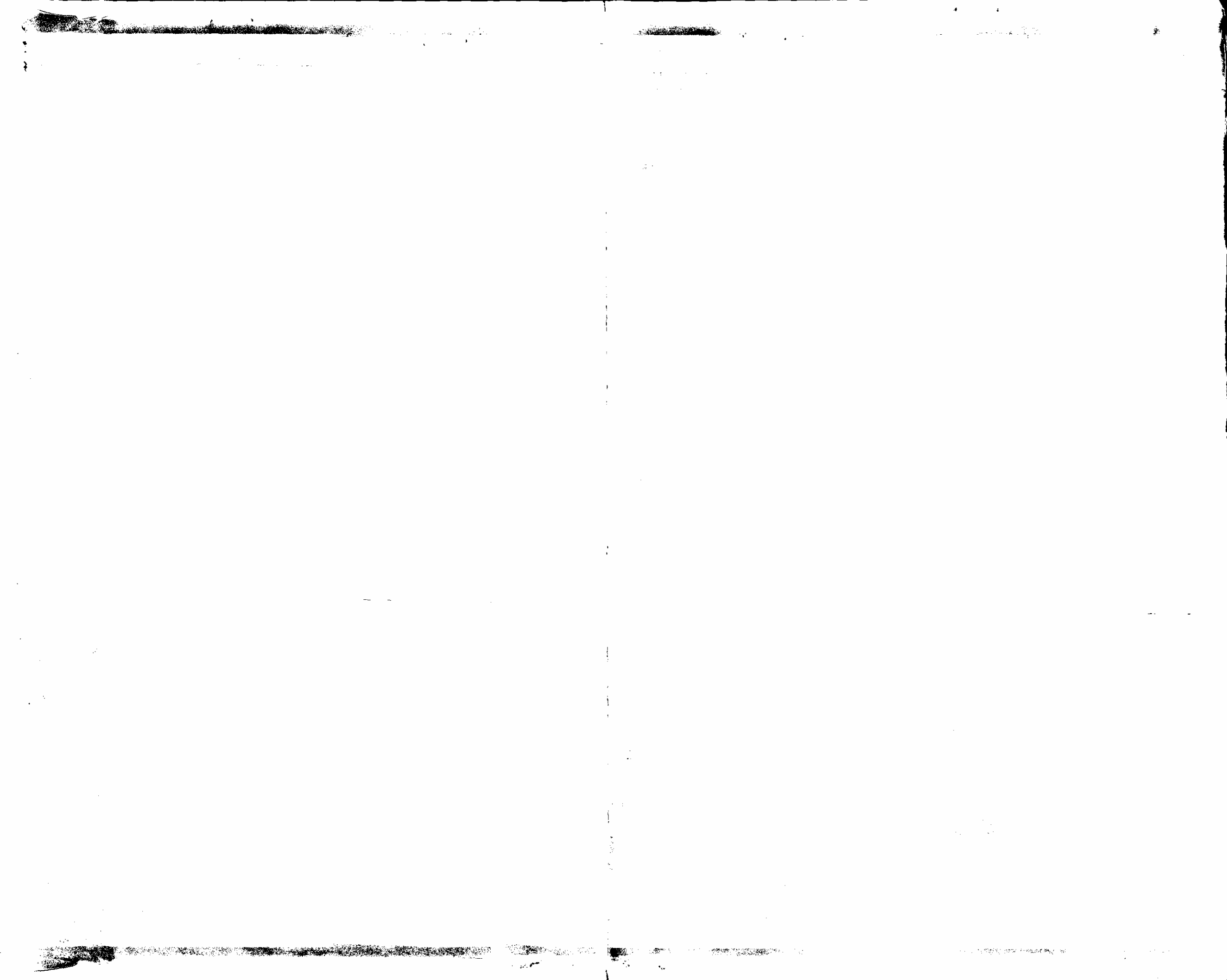
HALE PLAN





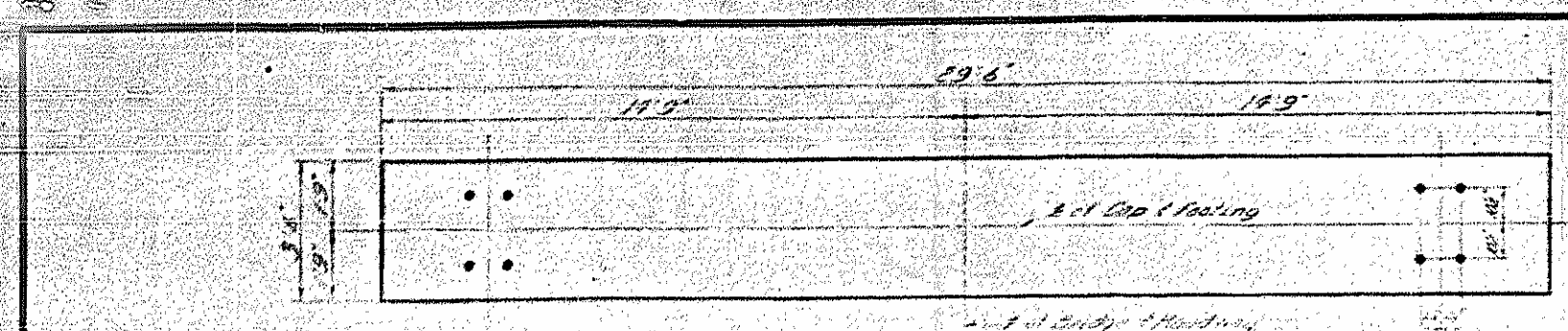






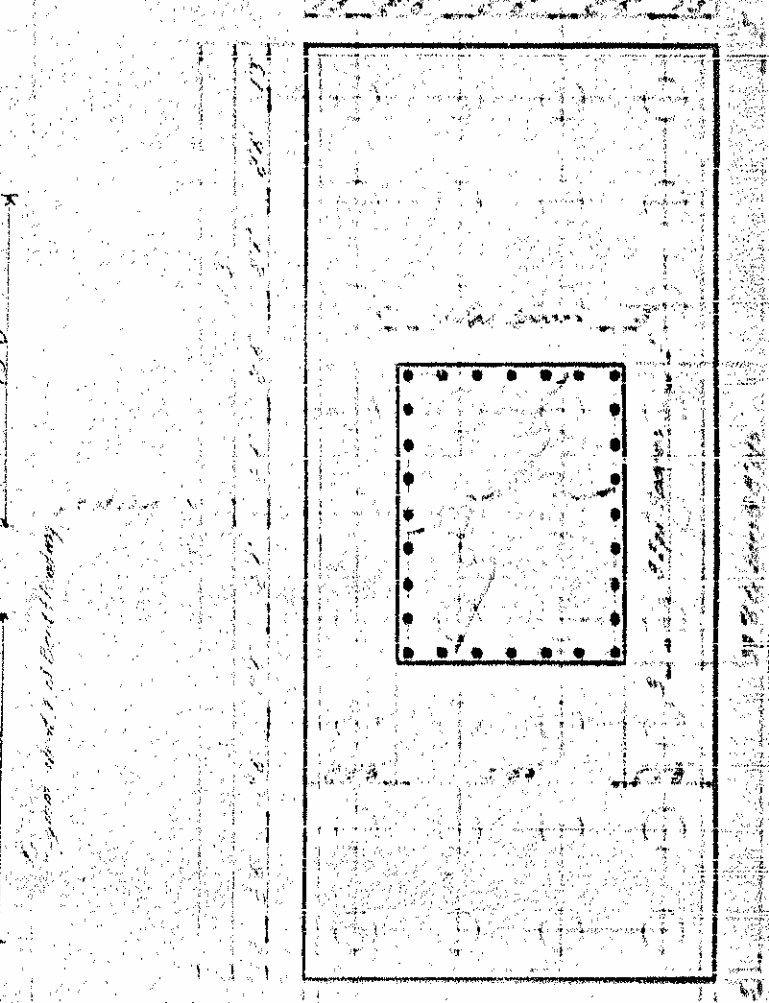
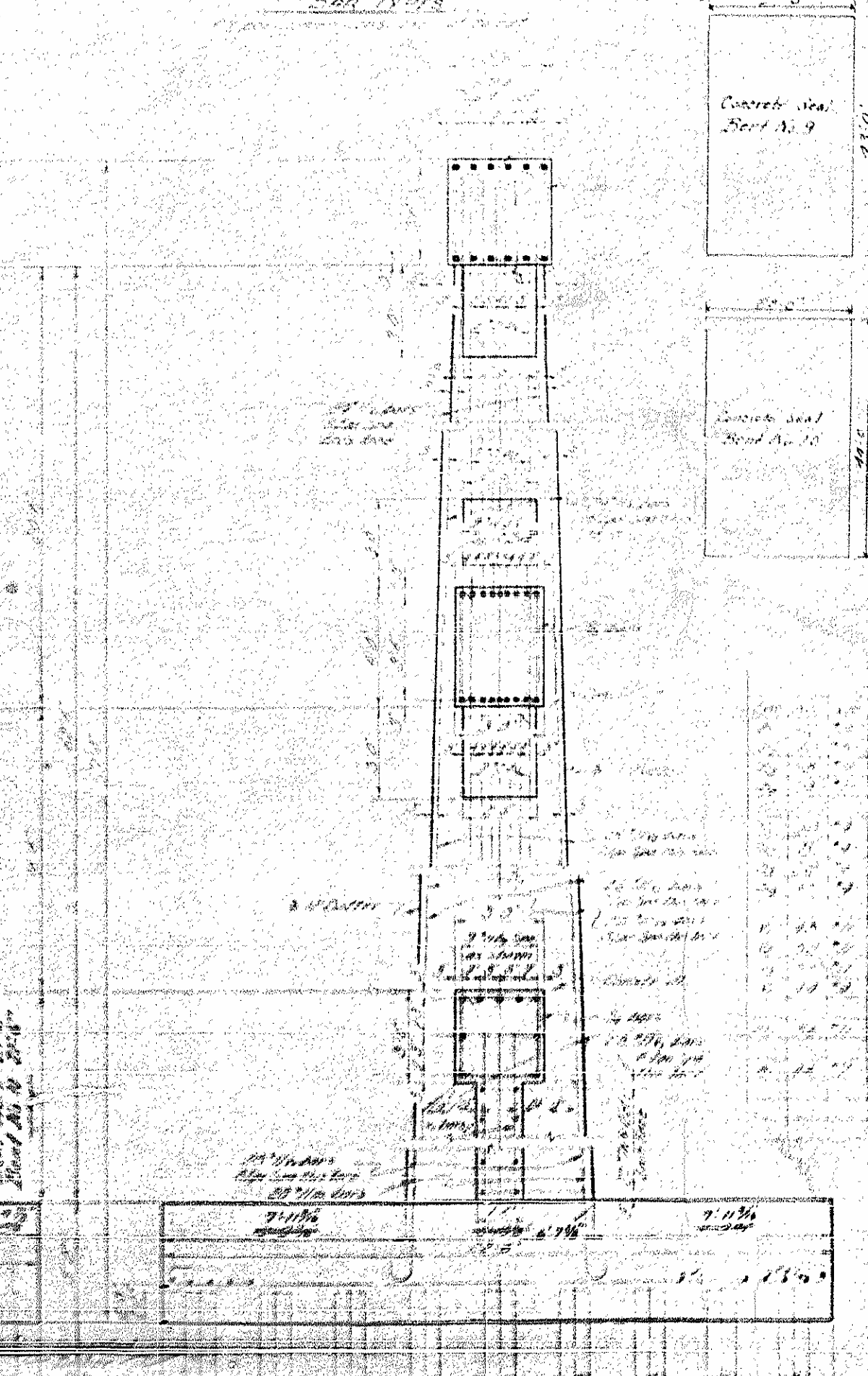
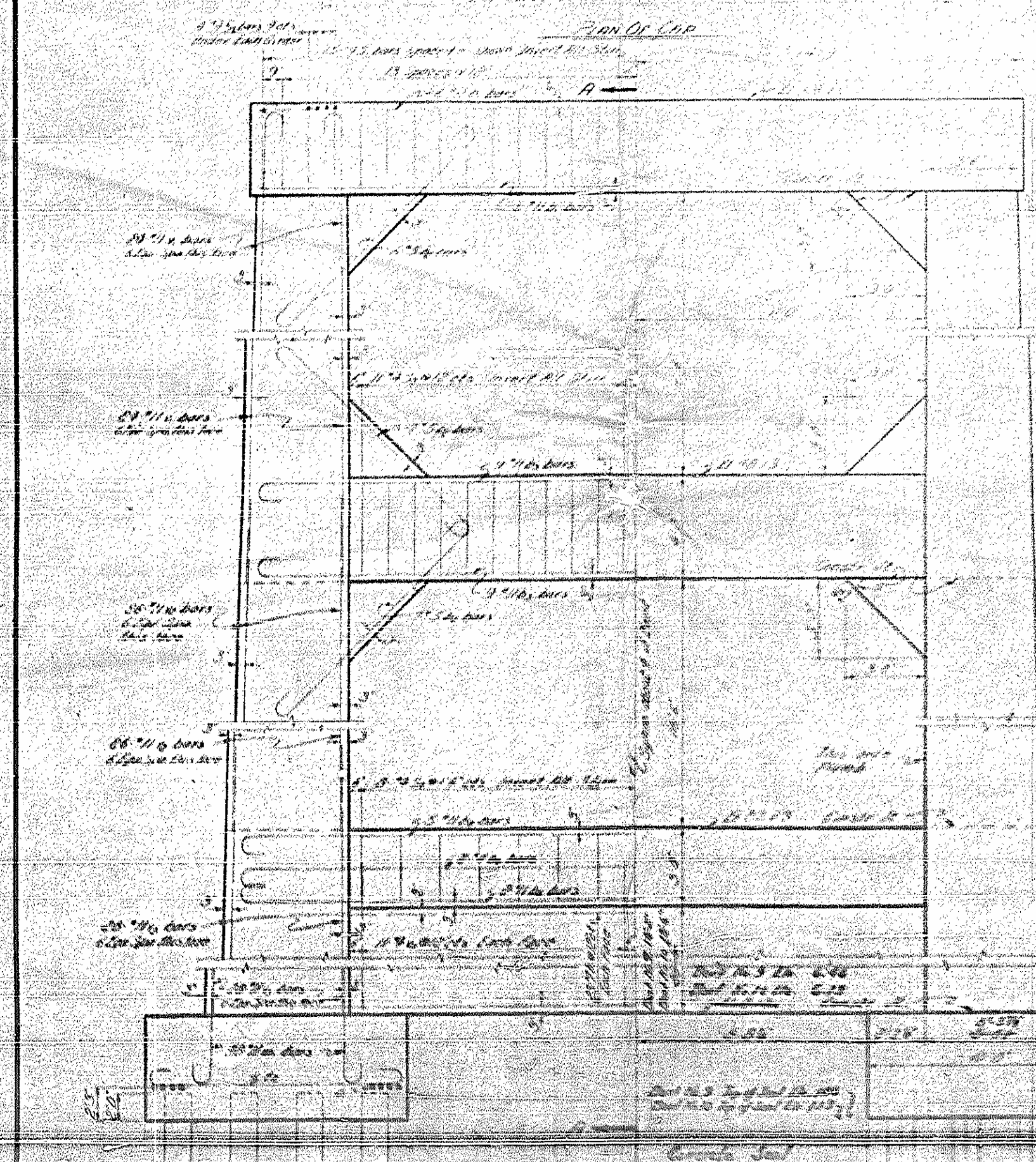
K O B A K . S . A . F . E . T . V . L . M .

SCALE: 1" = 10'-0" (VERTICAL) 1" = 20'-0" (HORIZONTAL)



Bar Tables

NO.	SIZE	QTY
1	3/4"	7
2	3/4"	7
3	3/4"	7
4	3/4"	7
5	3/4"	7
6	3/4"	7



REINFORCING BAR LIST

NO.	SIZE	QTY	REMARKS
1	3/4"	7	Top Slab Footing
2	3/4"	7	Top Slab Slabway
3	3/4"	7	Top Slab Slabway
4	3/4"	7	Top Slab Slabway
5	3/4"	7	Top Slab Slabway
6	3/4"	7	Top Slab Slabway

STATE OF NORTH CAROLINA  
STATE HIGHWAY AND  
PUBLIC WORKS COMMISSION  
DIVISION OF HIGHWAYS  
DATE: JULY 1954  
PROJECT NO. 4283  
STATION: 15+00.5  
SHEET NO. 1 OF 10





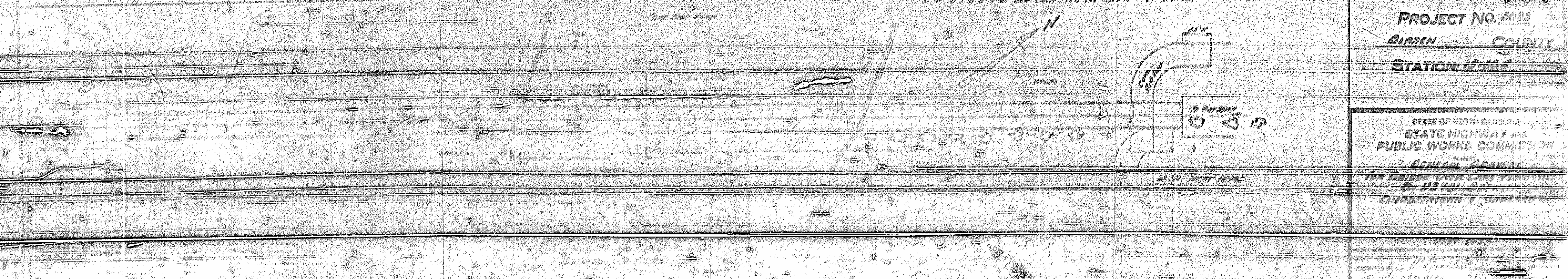
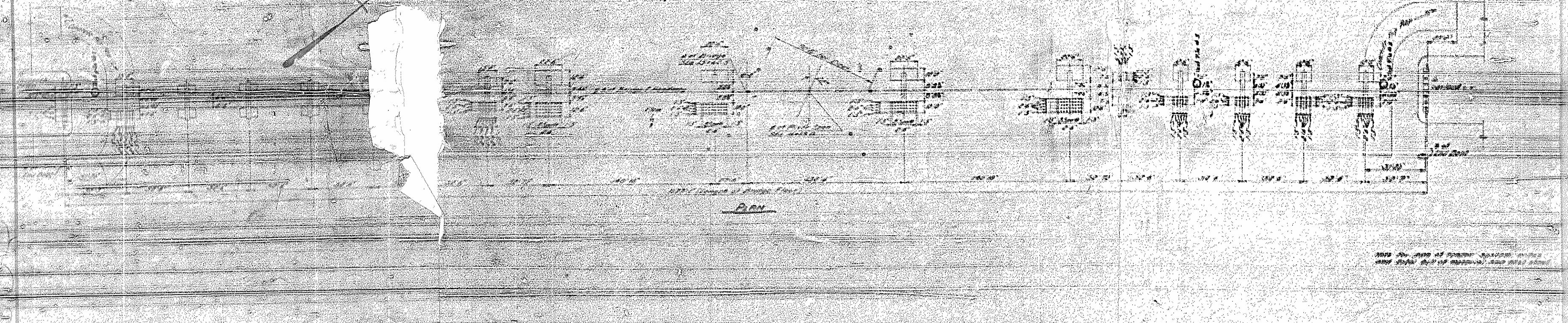
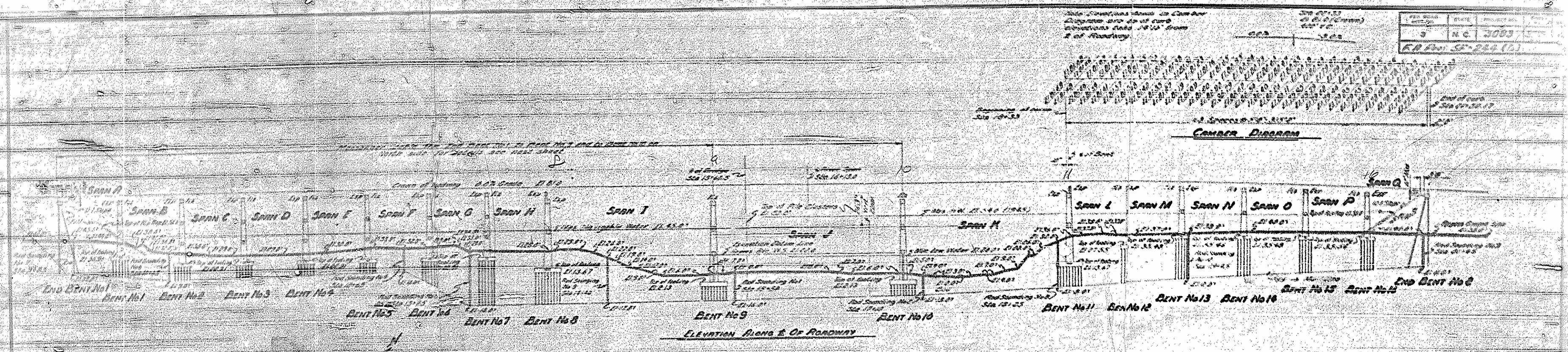






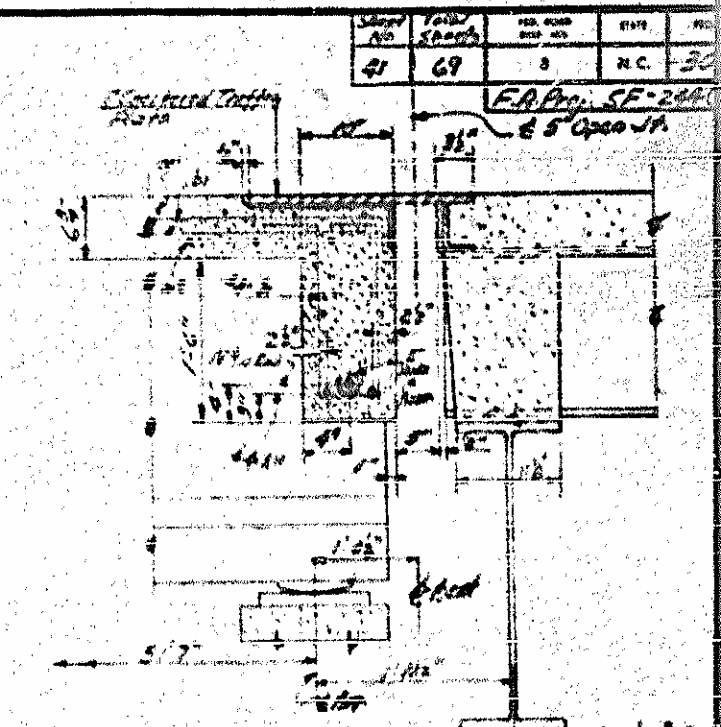
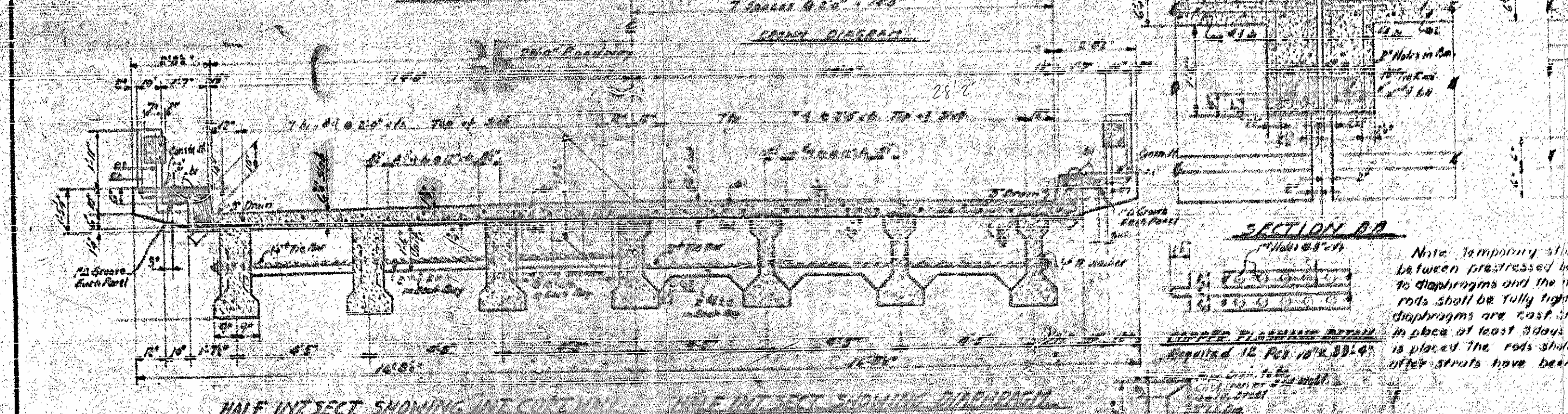
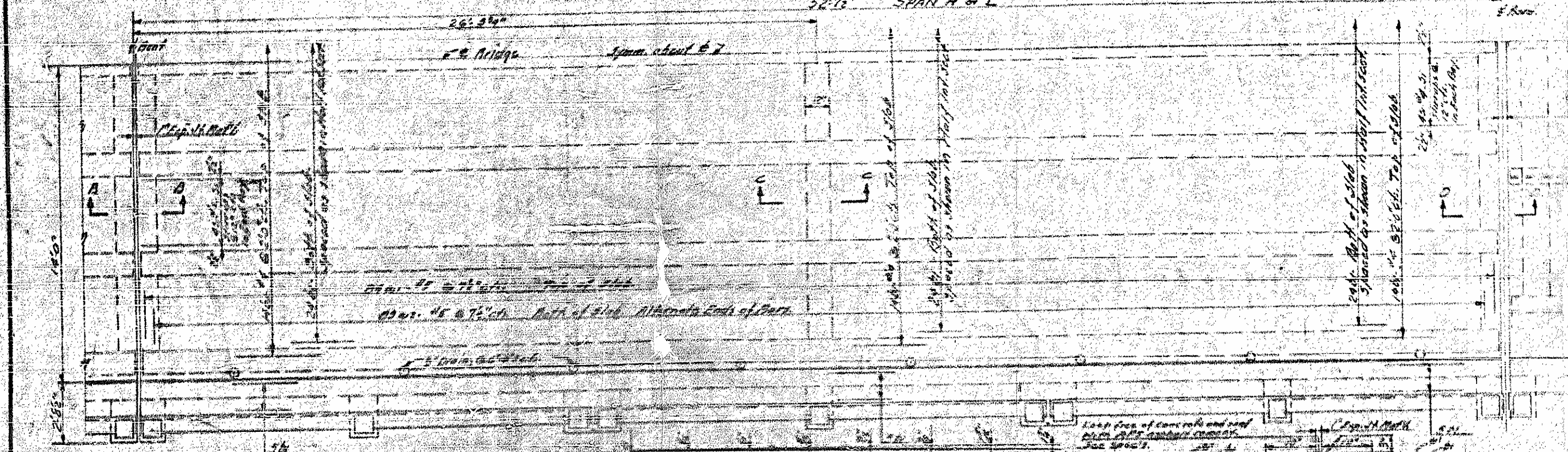
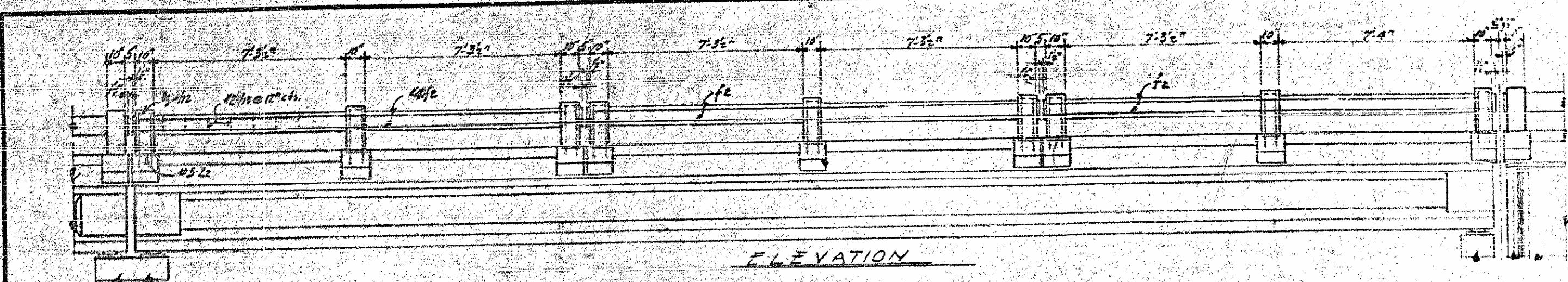






PROJECT NO. 3083  
 GLENN COUNTY  
 STATION 15+00

STATE OF NORTH CAROLINA  
 STATE HIGHWAY AND PUBLIC WORKS COMMISSION  
 GENERAL DRAWING  
 FOR BRIDGE OVER CREEK IN GLENN COUNTY  
 U.S. GEOLOGICAL SURVEY  
 CUMBERLAND DISTRICT



**BILL OF MATERIAL**

Item	Qty	Size	Type	Length
1	100	1/2"	1	30'-6"
2	146	1/2"	2	31'-9"
3	238	3/4"	3M	15'-0"
4	72	1/2"	12	31'-0"
5	72	1/2"	3	31'-0"
6	48	1/2"	3M	15'-0"
7	36	1/2"	4	21'-0"
8	36	1/2"	4	21'-0"
9	48	1/2"	3M	15'-0"
10	24	1/2"	3M	15'-0"
11	96	1/2"	5	41'-0"
12	36	1/2"	6	31'-0"

**HARDWARE (L SPANS)**

Item	Qty	Size	Type	Length
13	100	1/2"	1	30'-6"
14	146	1/2"	2	31'-9"
15	238	3/4"	3M	15'-0"
16	72	1/2"	12	31'-0"
17	72	1/2"	3	31'-0"
18	48	1/2"	3M	15'-0"
19	36	1/2"	4	21'-0"
20	36	1/2"	4	21'-0"
21	48	1/2"	3M	15'-0"
22	24	1/2"	3M	15'-0"
23	96	1/2"	5	41'-0"
24	36	1/2"	6	31'-0"

PROJECT NO. 9063  
 ALDEN COUNTY  
 STATION: 15+ 0.05

STATE OF NORTH CAROLINA  
 STATE HIGHWAY AND  
 PUBLIC WORKS COMMISSION  
 SUPERSTRUCTURE

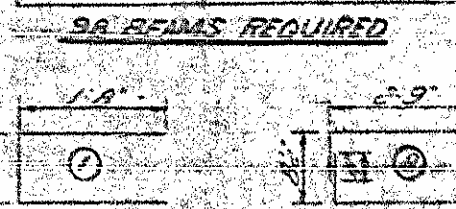
JULY 1964

QUART

Sheet No.	69	Scale	1" = 1'-0"
Project No.	3033	Sheet No.	3
Station	15+6.0 S	Scale	1" = 1'-0"

**Bill of Materials for One Beam**

Qty	Size	Length	Weight
8	1/2"	1'-0"	27
5	3/4"	3'-6"	188
2	3/4"	3'-3"	33
<b>Reinforcing Steel 193 lbs</b>			
<b>Class II Concrete 5.2 cu yds</b>			
<b>2" S. S. Plates 16 lbs</b>			



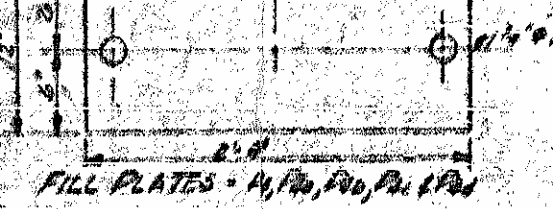
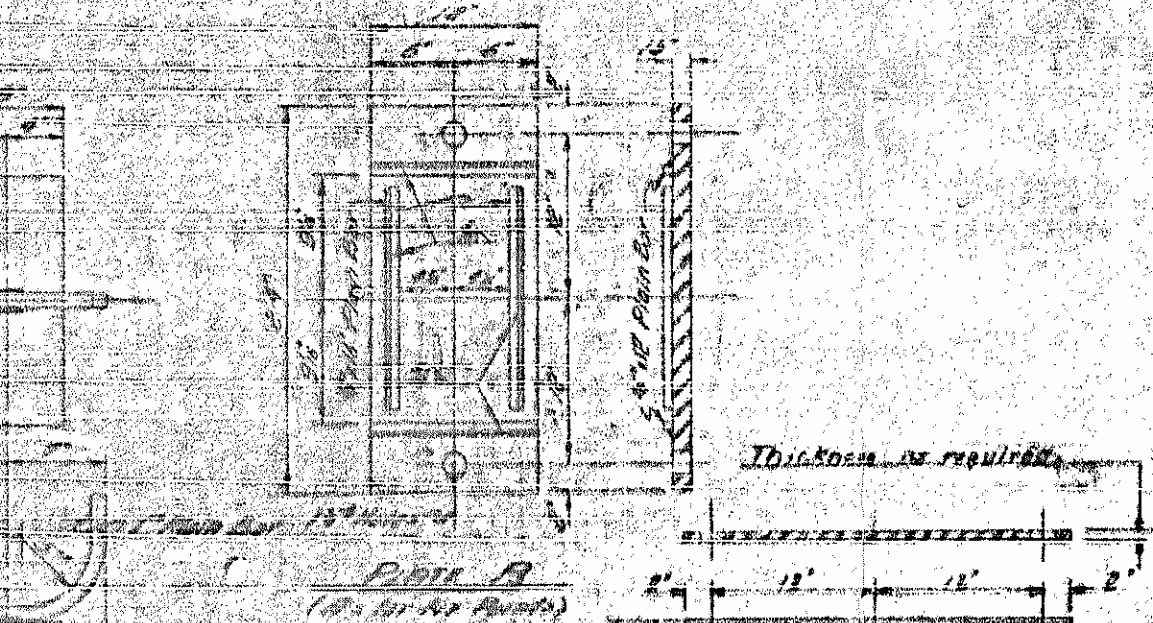
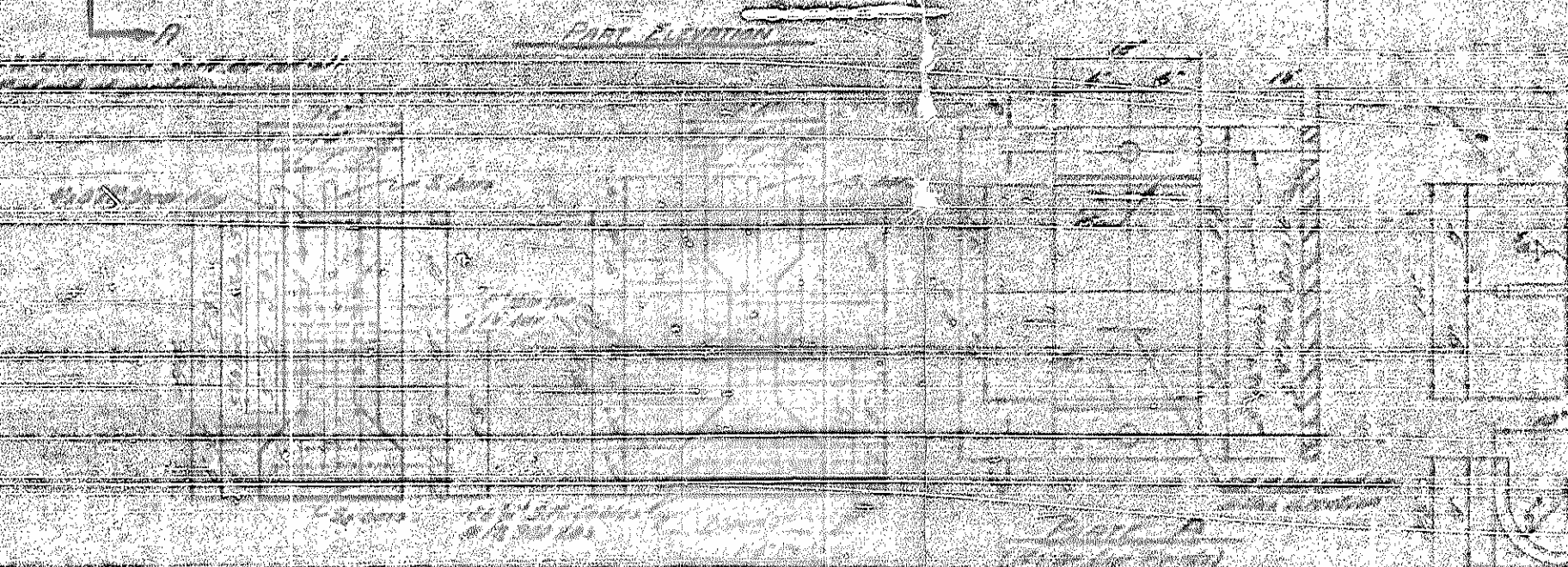
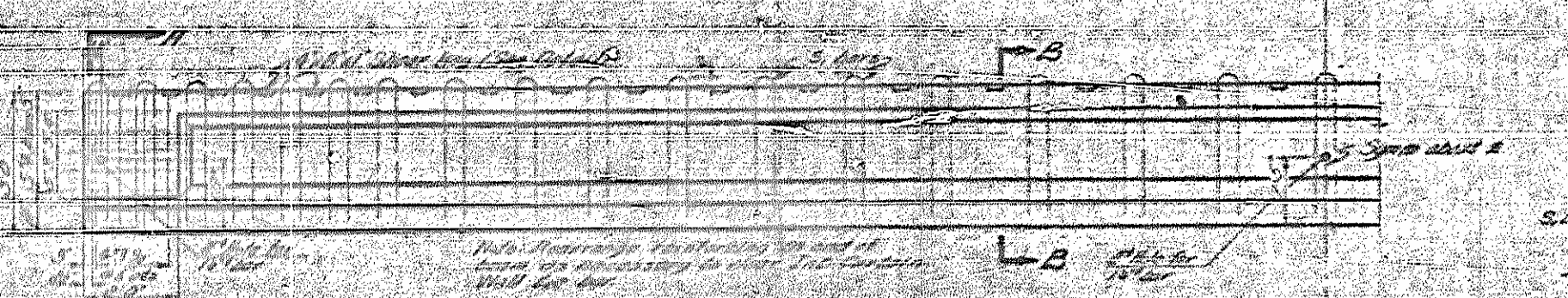
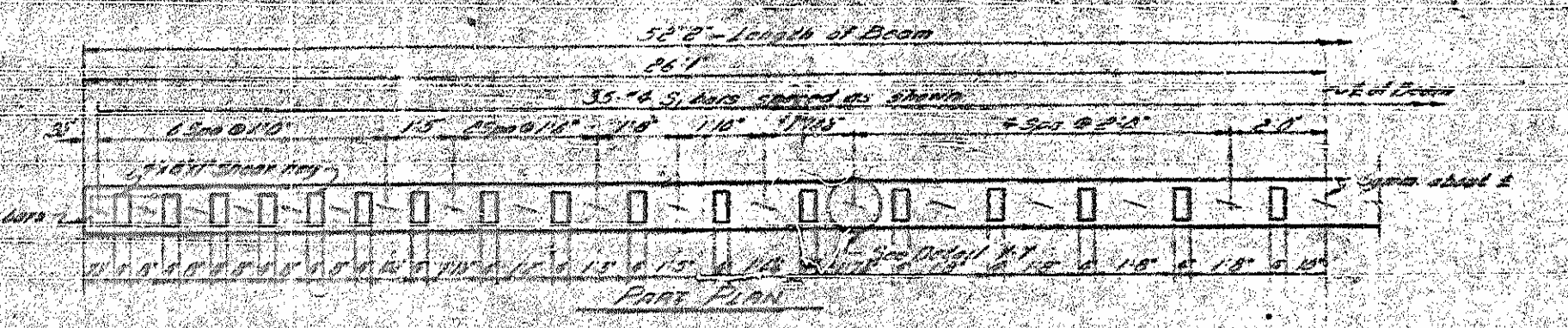
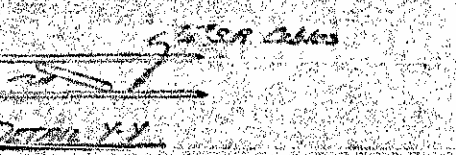
Note: Special care shall be taken to set all plates in exact position and to keep edges and bottom surfaces of the plates true of concrete. At 1/2" bearings, the ends of beams shall be 1/2" from the edge of the concrete. At 3/4" bearings, the ends of beams shall be 3/4" from the edge of the concrete. The concrete shall be placed in layers and each layer shall be thoroughly vibrated and kept true of concrete and other matters which may interfere with the proper functioning of the plates.

The finished beams shall be stored and used in accordance with the Special Provisions.

Notes: In the handling of beams, they shall be supported in the straight position at all times and shall be stored in neat rows within the yard. Beams shall be stored in the beam yard, and the yard shall be kept free of any material which may lead to damage of the beams.

Reinforcing steel and concrete shall be used as a concrete beam shall be placed in the yard and used for 15' S. S. P. Reinforced Concrete Beam & End.

**BAR TYPES**  
All dimensions are not to scale of bars



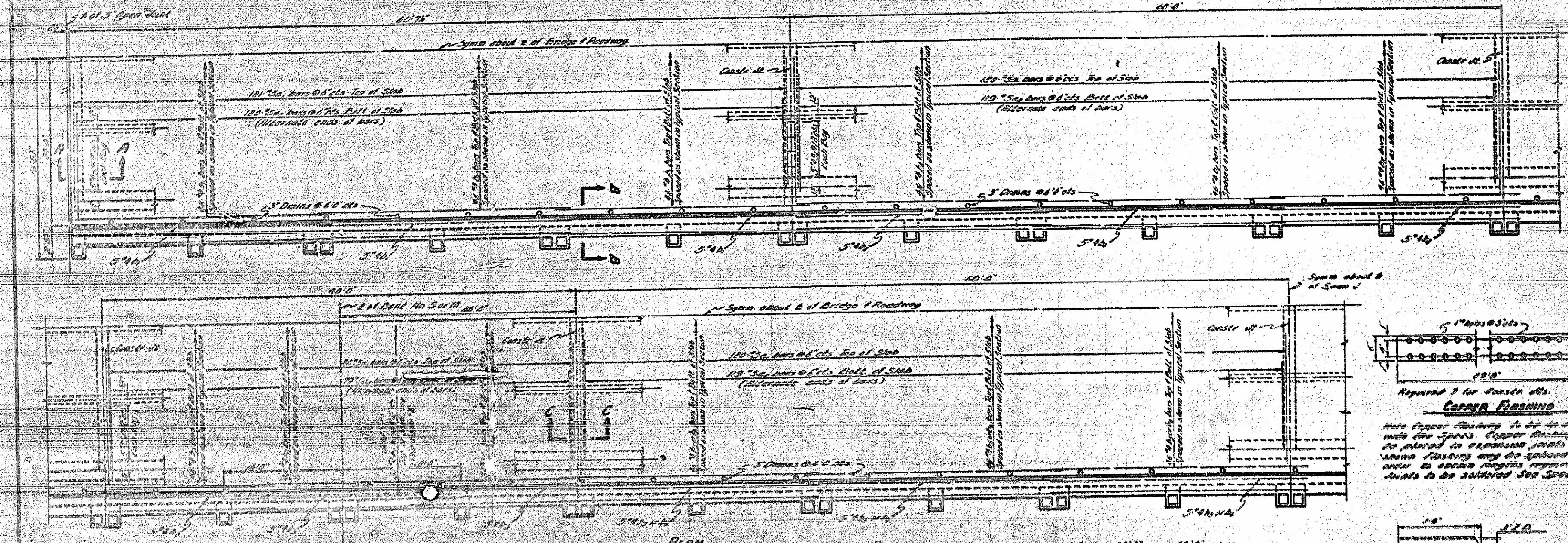
**PROJECT NO. 3033**  
**CLAYTON COUNTY**  
**STATION: 15+6.0 S**

**REQUIRED LIST**

Item	Description	Quantity
1	1/2" S. S. Bars	8
2	3/4" S. S. Bars	5
3	3/4" S. S. Bars	2
4	Reinforcing Steel	193 lbs
5	Class II Concrete	5.2 cu yds
6	2" S. S. Plates	16 lbs

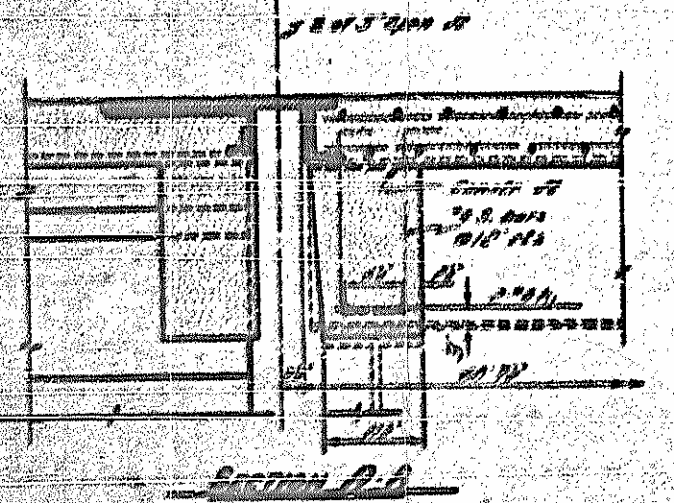
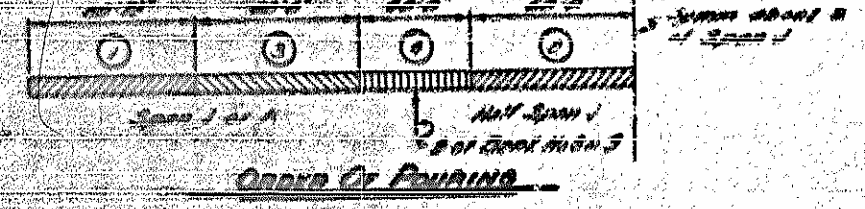
STATE OF NORTH CAROLINA  
STATE HIGHWAY AND  
PUBLIC WORKS COMMISSION  
DETAILS OF PRECAST  
CONCRETE BEAM AND  
BEARING PLATES  
1951

PROJ. NO.	DATE	DESIGNER	SCALE
3003	5/25/55	J. H. ...	1" = 10'-0"



**Required for Construction**  
**CORNER BRACING**  
 This corner bracing is to be installed with the spans. Corner bracing is to extend to exterior joints on spans. Bracing may be spaced in order to obtain proper compression joints to be satisfied. See Specs.

**Required for**  
**DRIN DETAIL**  
 Drains may be either cast into or attached to galvanized steel.

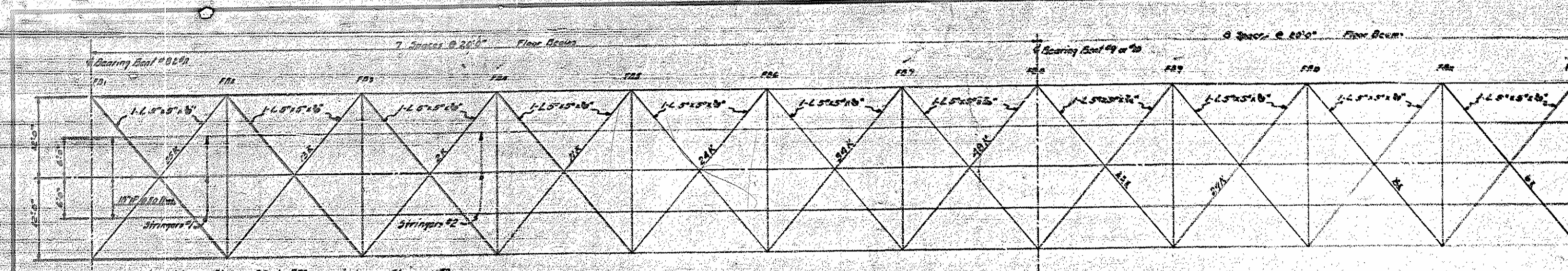


**PROJECT NO. 3003**  
**BLADEN COUNTY**  
**STATION: 15+60.5**  
**SPANS 1-1/4**  
**SHEET 1 OF 2**

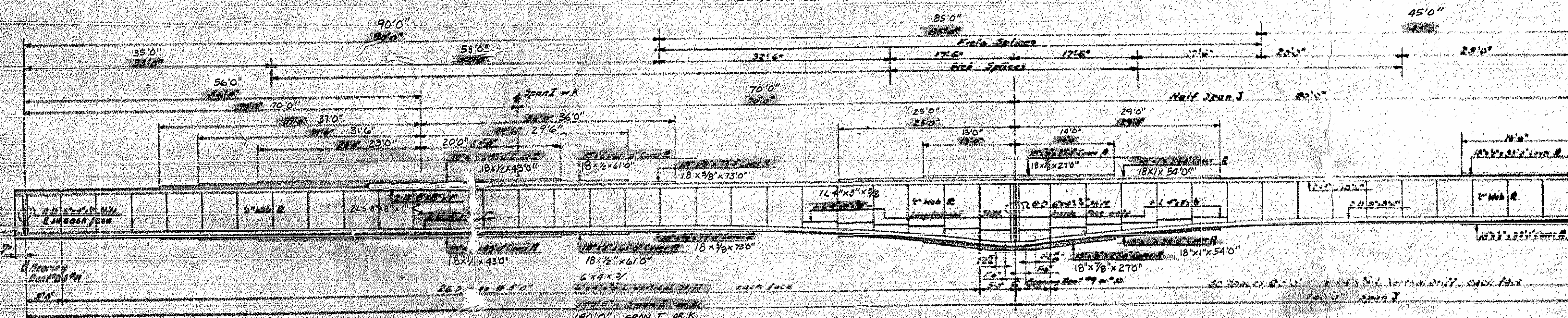
STATE OF NORTH CAROLINA  
 STATE HIGHWAY AND  
 PUBLIC WORKS COMMISSION  
 SUPERSTRUCTURE

JUNE 1955

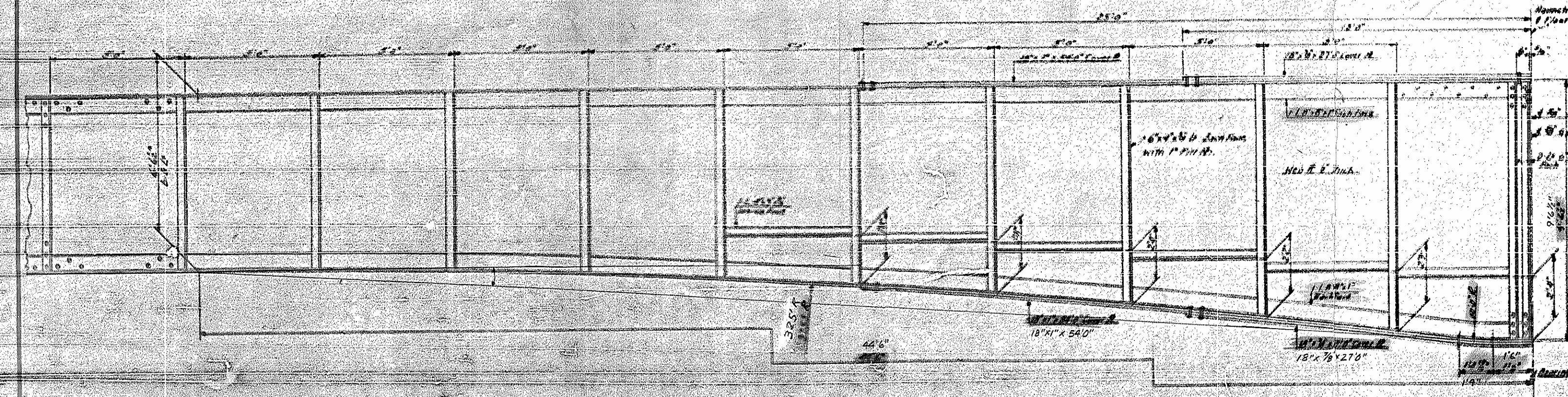




**HALF PLAN**  
DIAGONAL BRACING AT 5% OF FLOOR SPAN



**ELEVATION HALF-GIRDER**

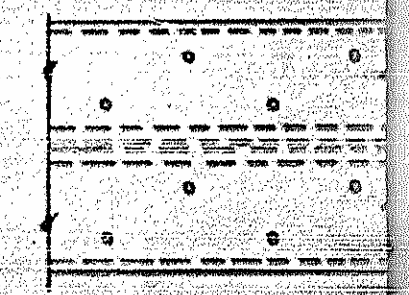


**ELEVATION OF GIRDER AT HAUNCH**

DATE	PROJECT NO.
5.19.36	3033
E.D.P. - SP-266 (1)	

**NOTE**  
Use 3/8" rivets with 3/8" holes.  
**Maximum Rivet Spacing:**  
The maximum rivet spacing shall be as follows:  
1 - 40 to web flange  
2 - Cover flange to 4" 6"  
3 - Stiffeners at haunch 4"  
4 - All other stiffeners 6"

General bracing shall be done with corner posts assembled.  
Field splices shall be field bolted using high strength bolts in accordance with the provisions of the girder splices shall be field bolted before transportation. See Article 207-3.1 (a) on page 228 of the Standard Specifications.



**DETAIL SHOWING GIRDER AT HAUNCH**

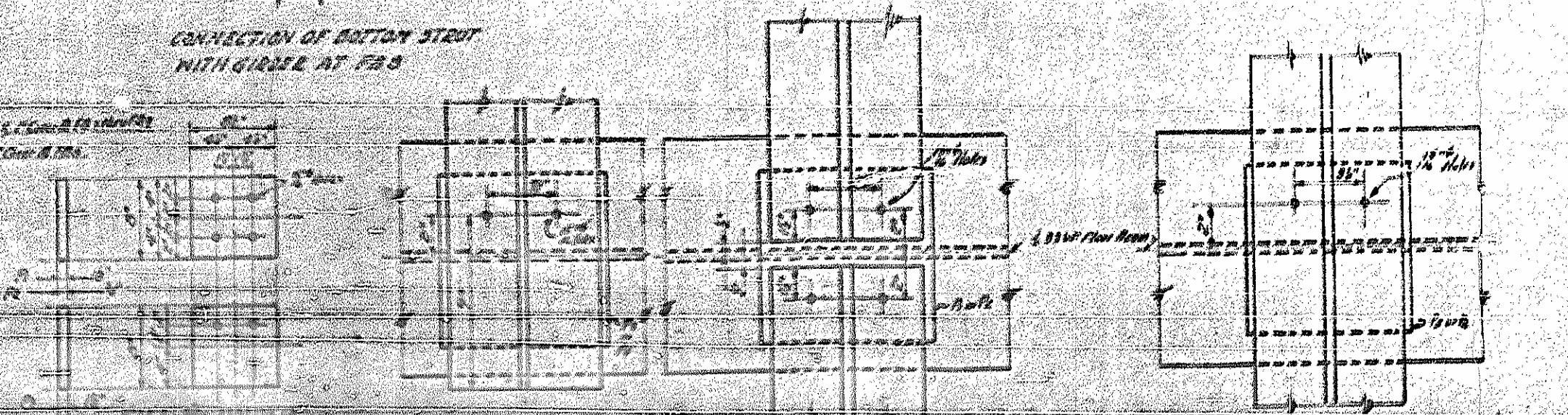
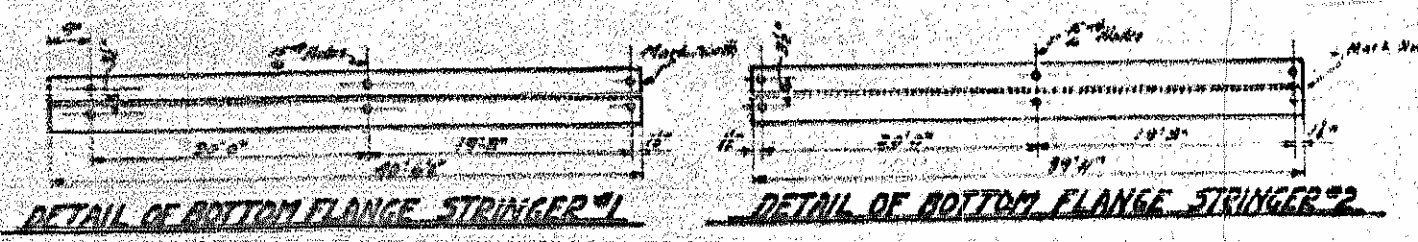
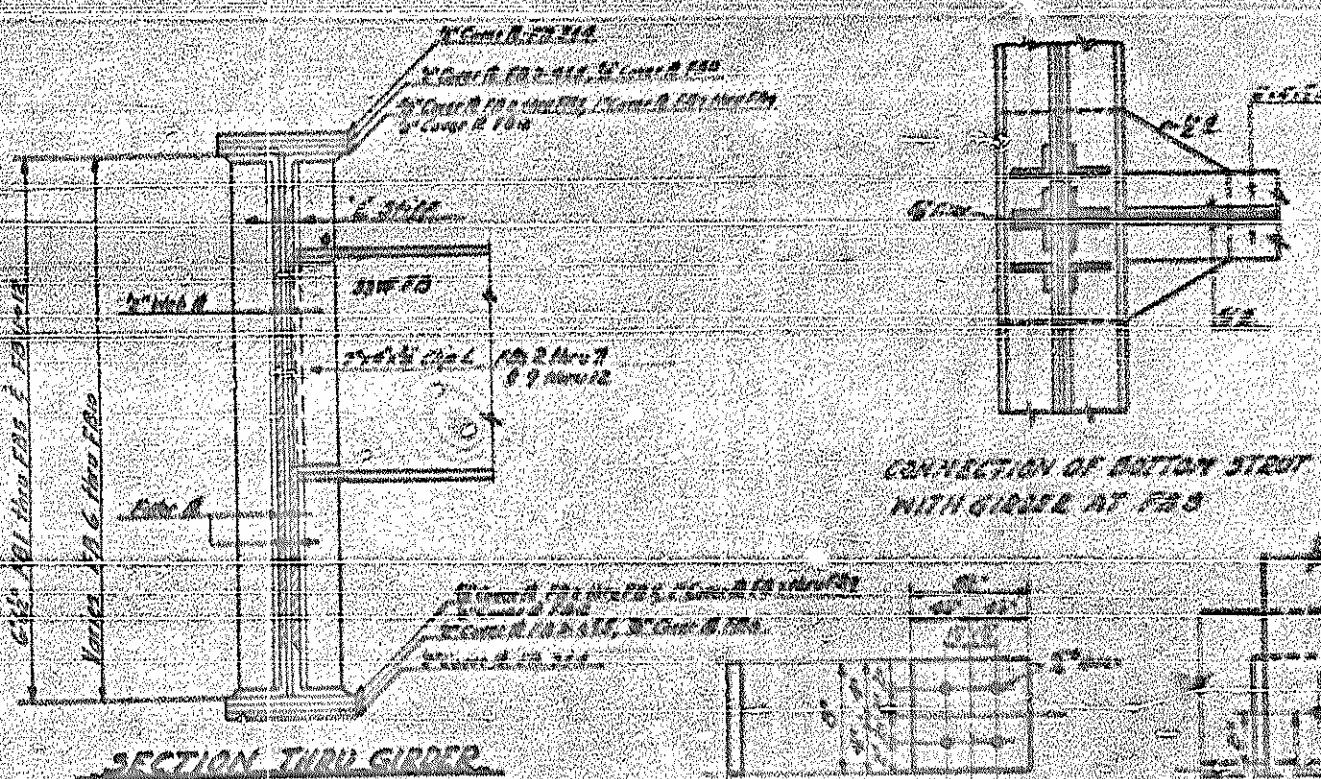
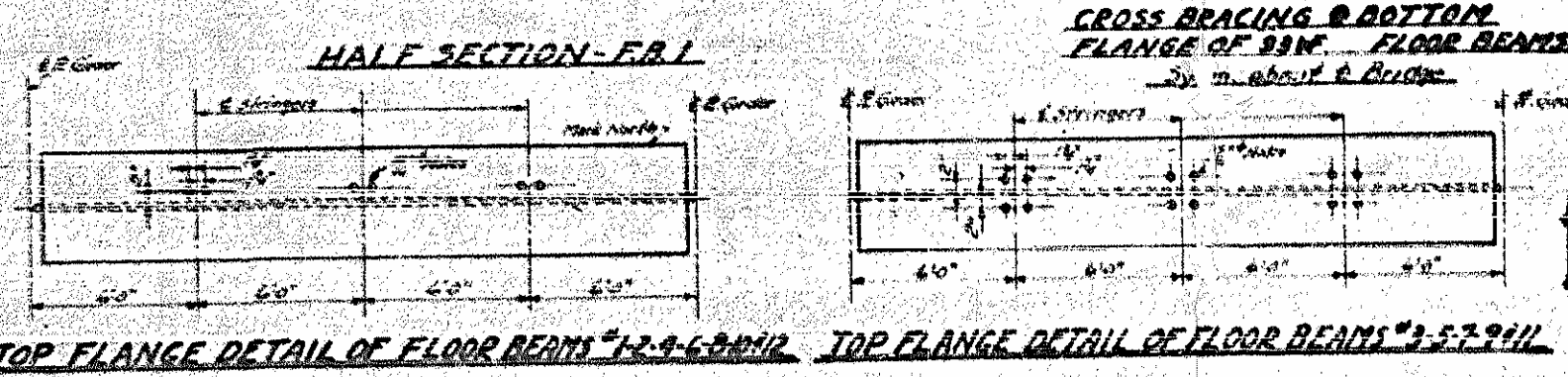
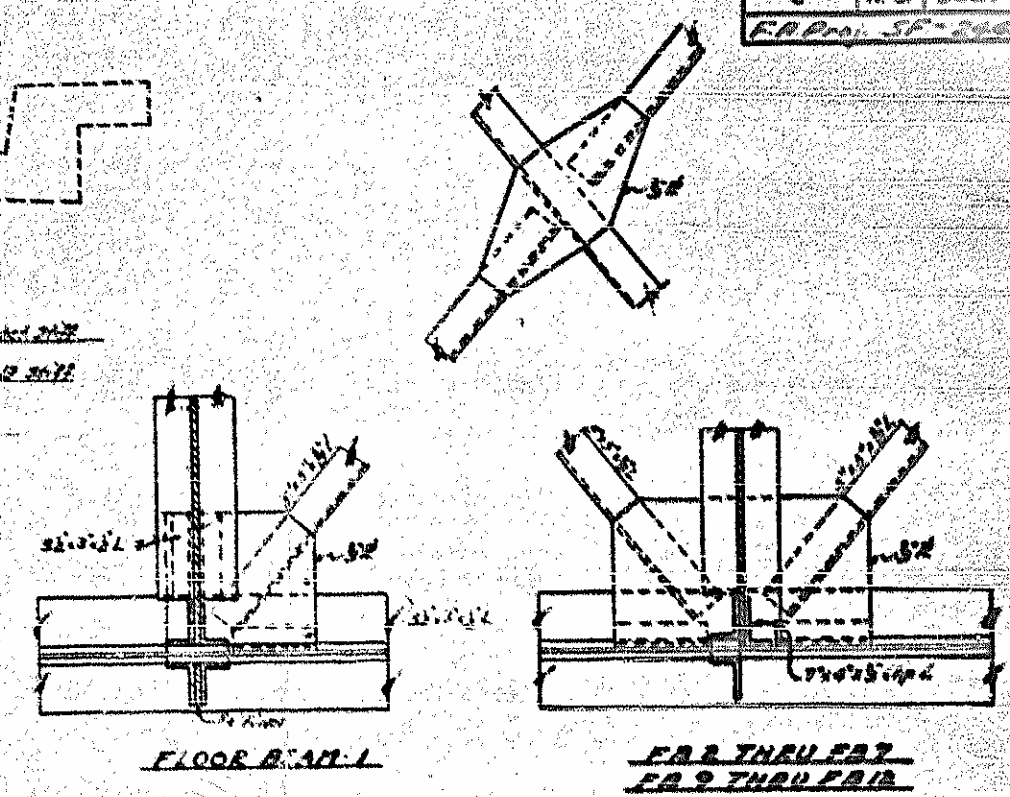
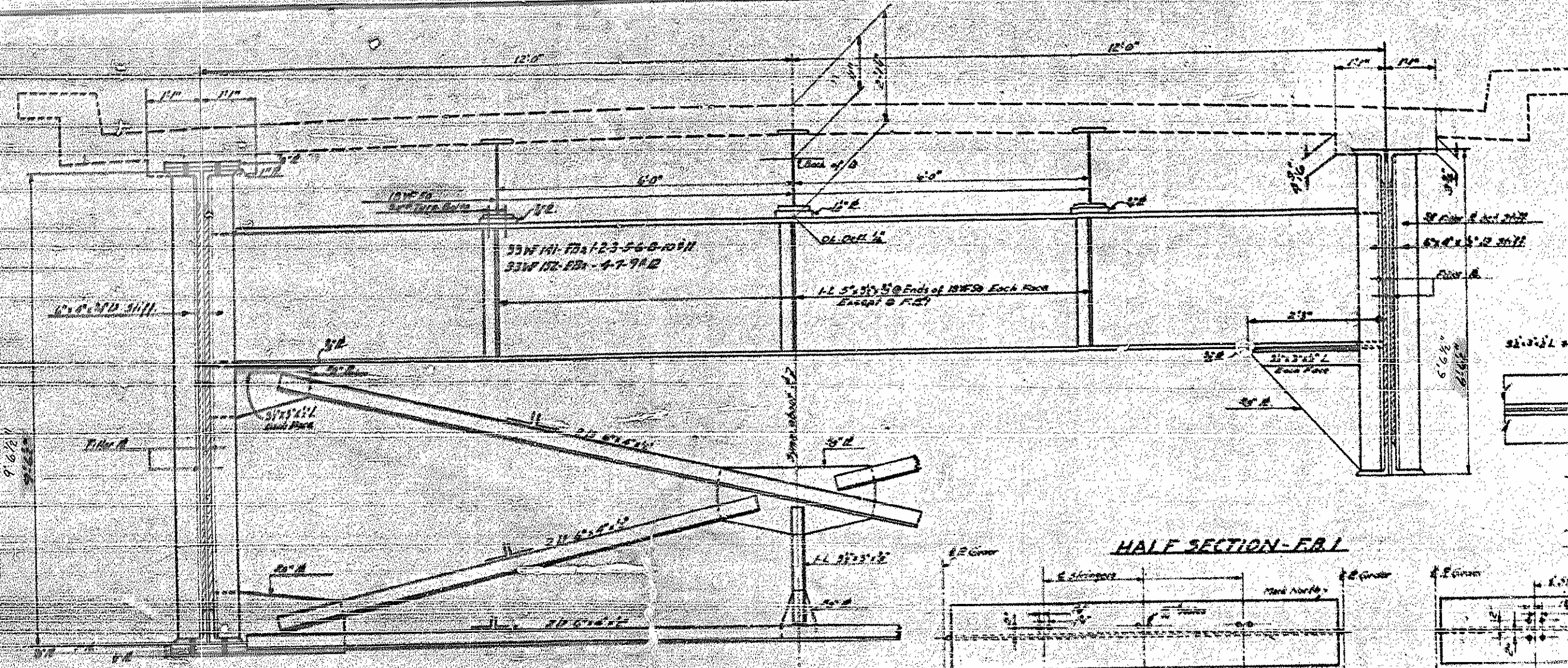
**PROJECT NO. 3033**  
**BLADEN COUNTY**  
**STATION 15+60.5**

STATE OF NORTH CAROLINA  
STATE HIGHWAY AND  
PUBLIC WORKS COMMISSION  
**DETAIL OF  
PLATE GIRDER**  
MAY 1936  
W. L. RAYMOND

55  
90  
45  
22.0  
14.0  
8.0  
100' span



FED. ROAD DIST. NO.	STATE	PROJECT NO.
3	N.C.	3083
F.R.D. No. 5F-248(1)		



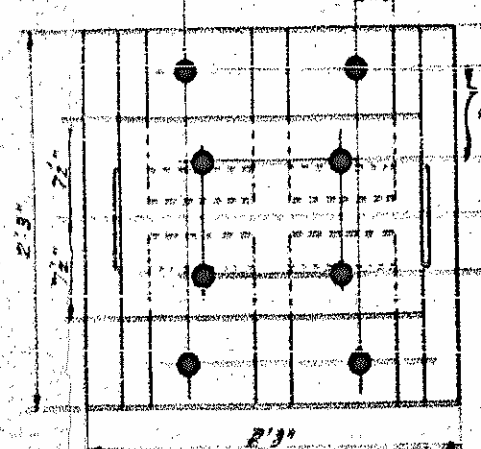
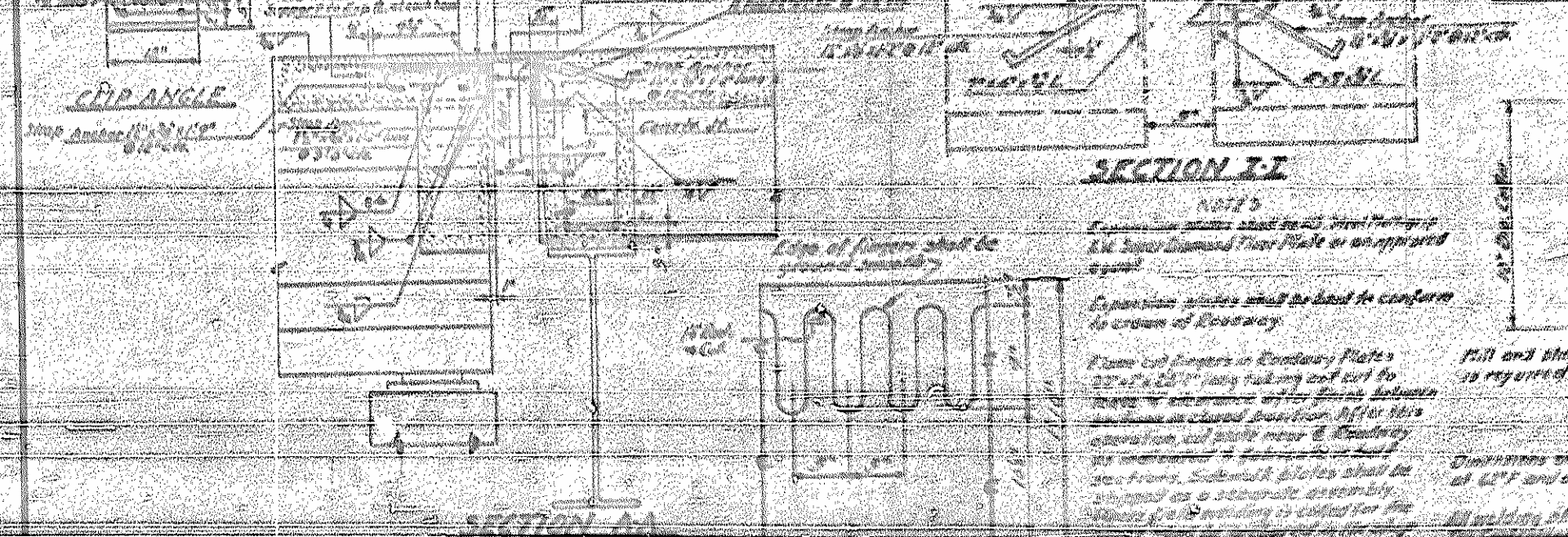
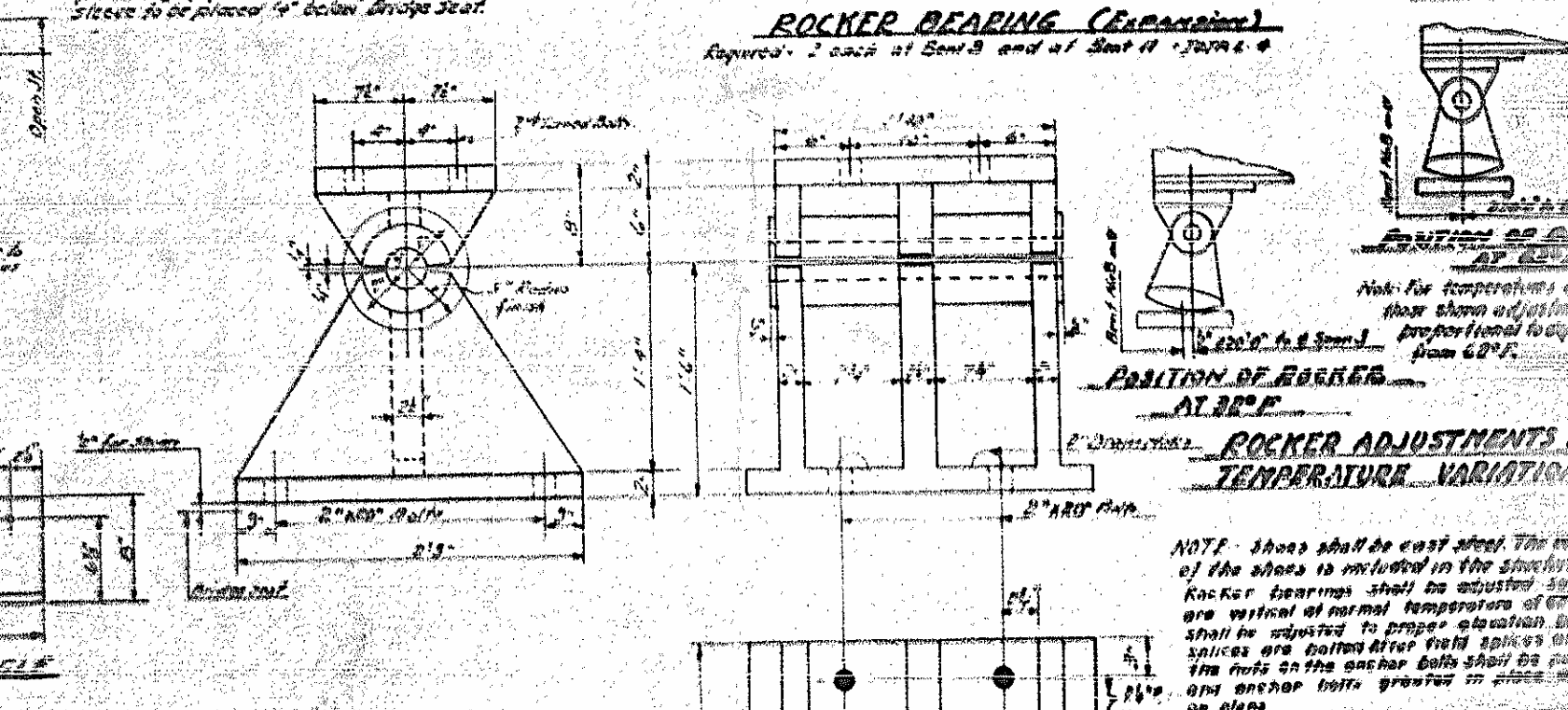
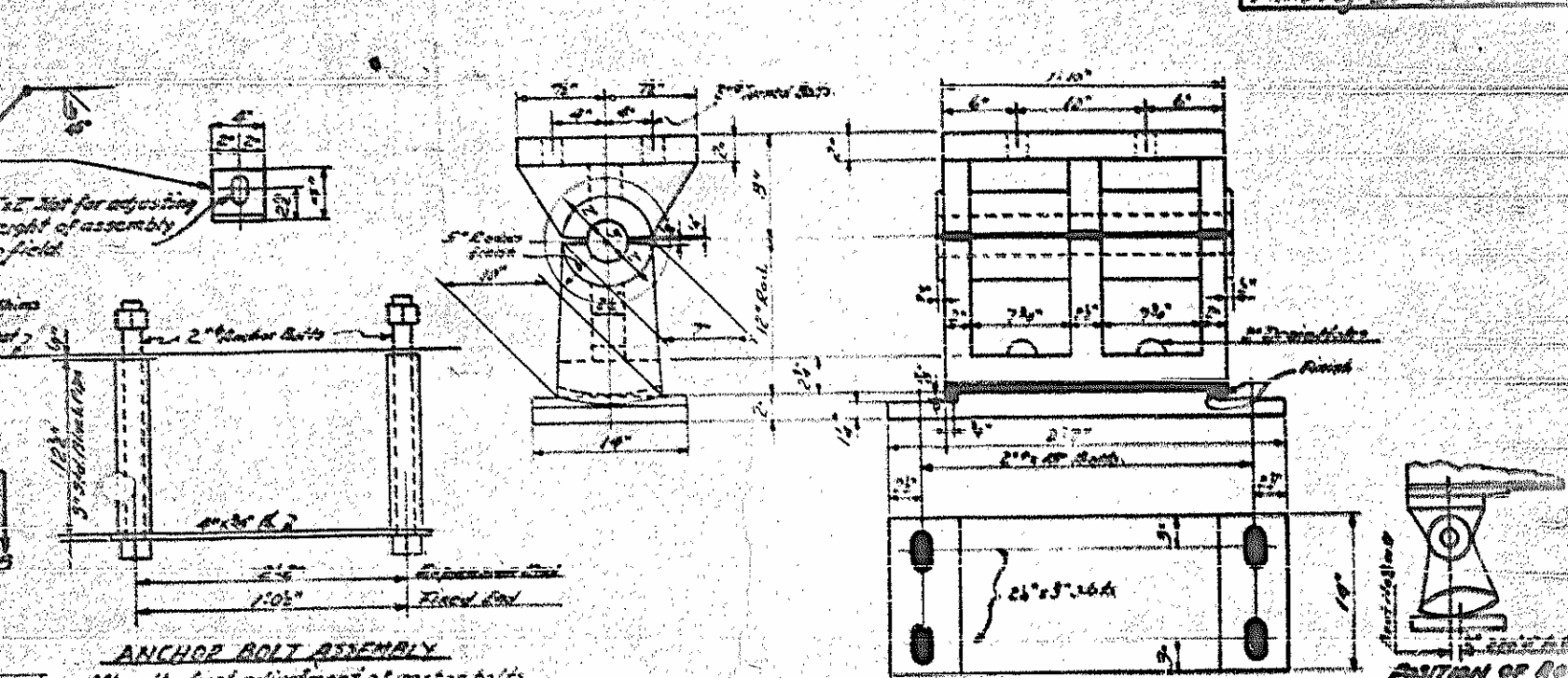
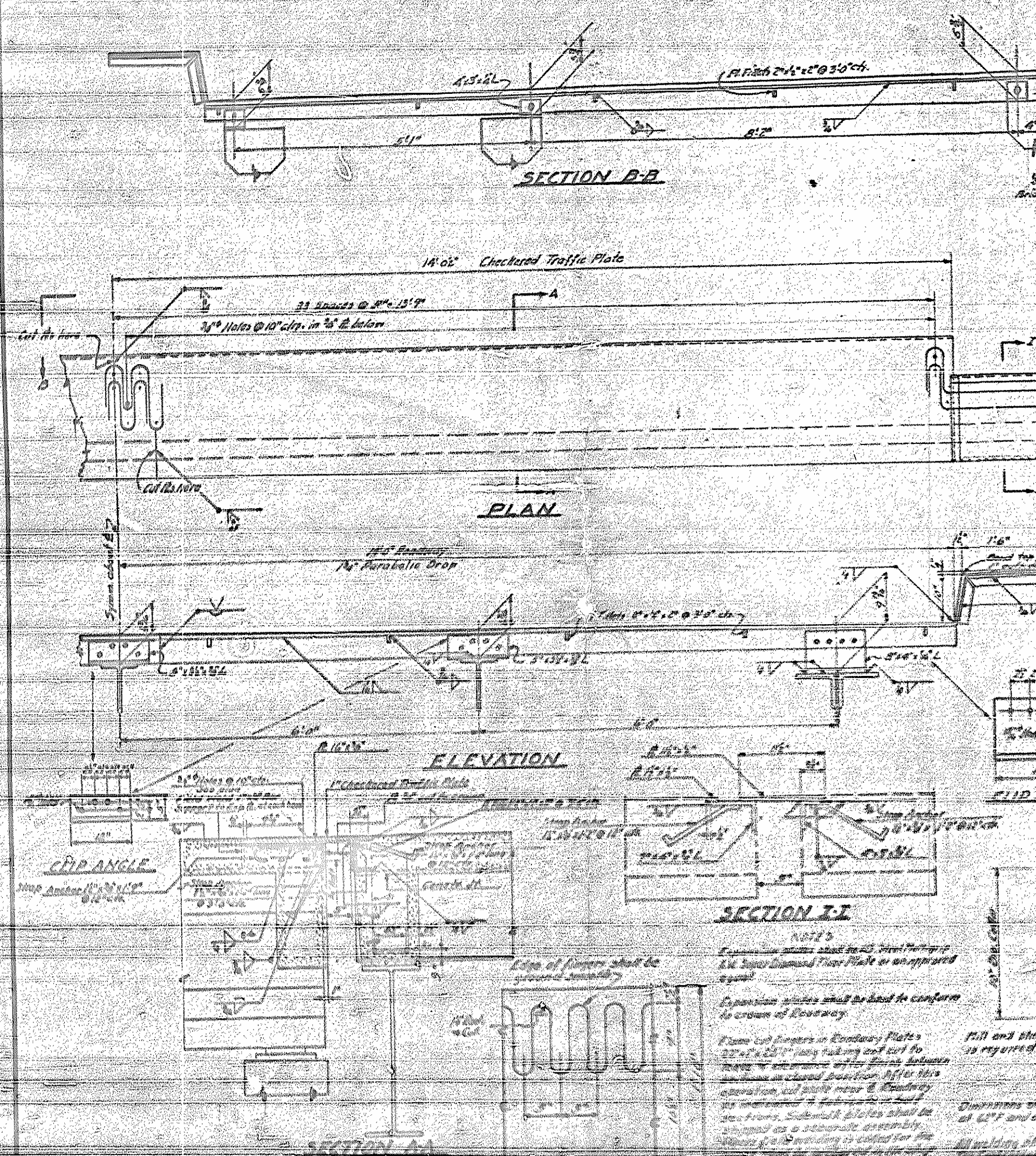
PROJECT No. 3083  
 BLADEN COUNTY  
 STATION: 15+60.5

STATE OF NORTH CAROLINA  
 STATE HIGHWAY AND  
 PUBLIC WORKS COMMISSION  
 STRUCTURAL STEEL DETAIL  
 SECTIONS & BRACING  
 CONNECTIONS  
 MAY 1956

SPECIAL	APPROVED BY
STANDARD	DESIGNED BY

APPROVED BY  
 J. R. W. L. M. T.

PROJECT NO.	3093
DATE	5-1-35
DESIGNER	H. H. ...
CHECKED BY	...



NOTE: Shims shall be cast steel. The use of the shims is included in the structural rocker bearings shall be adjusted so that they are vertical at normal temperature. If they are not vertical at normal temperature, they shall be adjusted to proper elevation after the shims are cast. After field spikes are in place, the nuts on the anchor bolts shall be pulled and anchor bolts grouted in place as shown on plans.

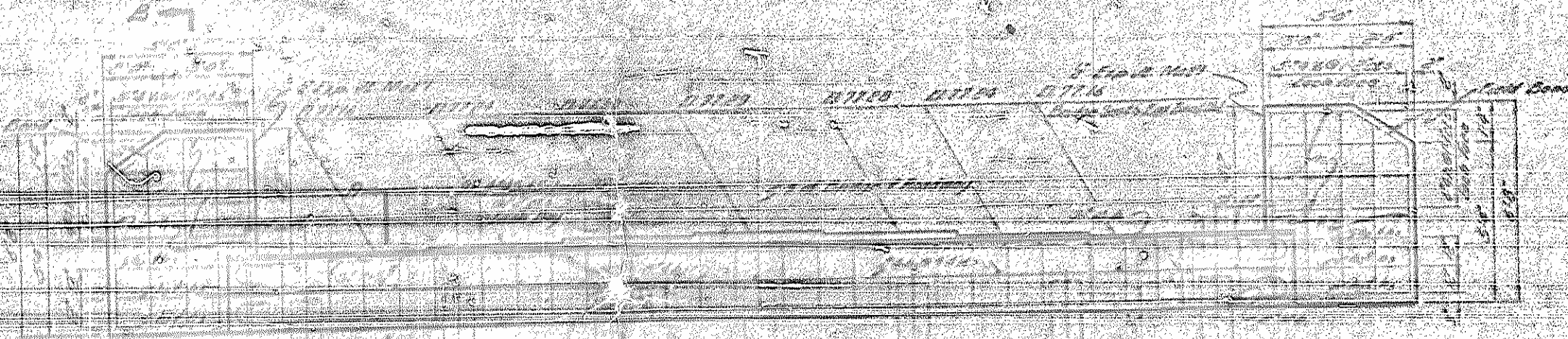
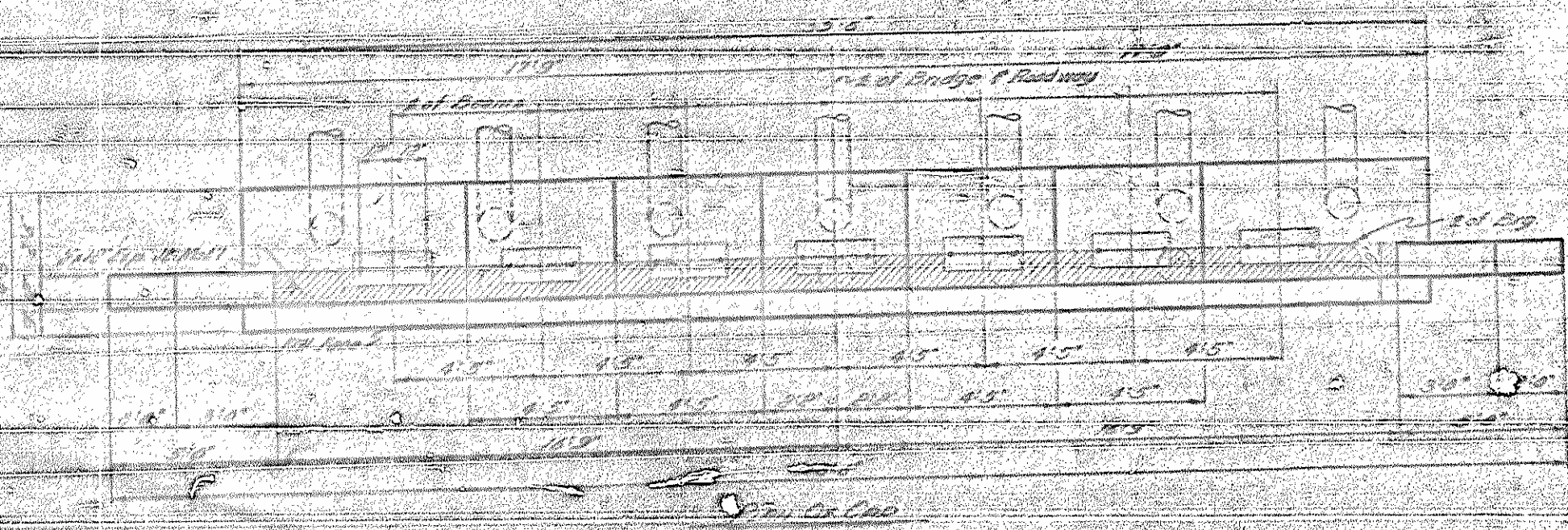
PROJECT NO. 3093  
BLADEN COUNTY  
STATION: 15+00.5

STATE OF NORTH CAROLINA  
STATE HIGHWAY AND  
PUBLIC WORKS COMMISSION  
SUPERSTRUCTURE  
STRUCTURAL STEEL DETAIL

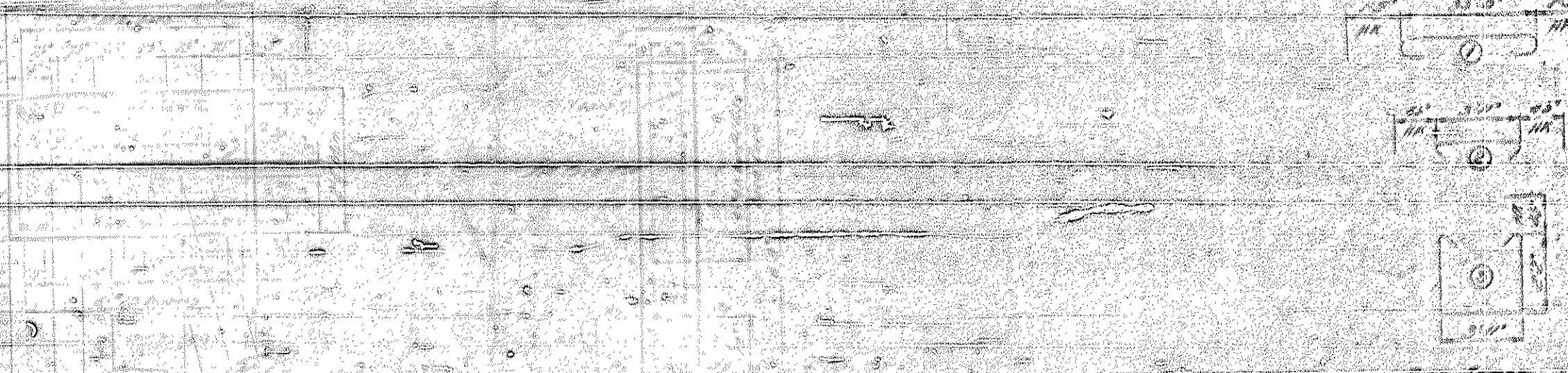
MAY 1935

DESIGNED BY: H. H. ...  
CHECKED BY: ...

Approx. Wt. of Structural Steel 426,700\*



Note: This shall be drawn to minimum bearing capacity of 10 tons each.



**Bill Of Materials For One End Bent**

Qty	No.	Size	Length	Weight	Notes
1	1	12"	10'	100	
2	2	12"	10'	200	
3	3	12"	10'	300	
4	4	12"	10'	400	
5	5	12"	10'	500	
6	6	12"	10'	600	
7	7	12"	10'	700	
8	8	12"	10'	800	
9	9	12"	10'	900	
10	10	12"	10'	1000	

Notes: All materials to be furnished by contractor. All dimensions are net to end.

Sheet No. 6  
Page No. 3

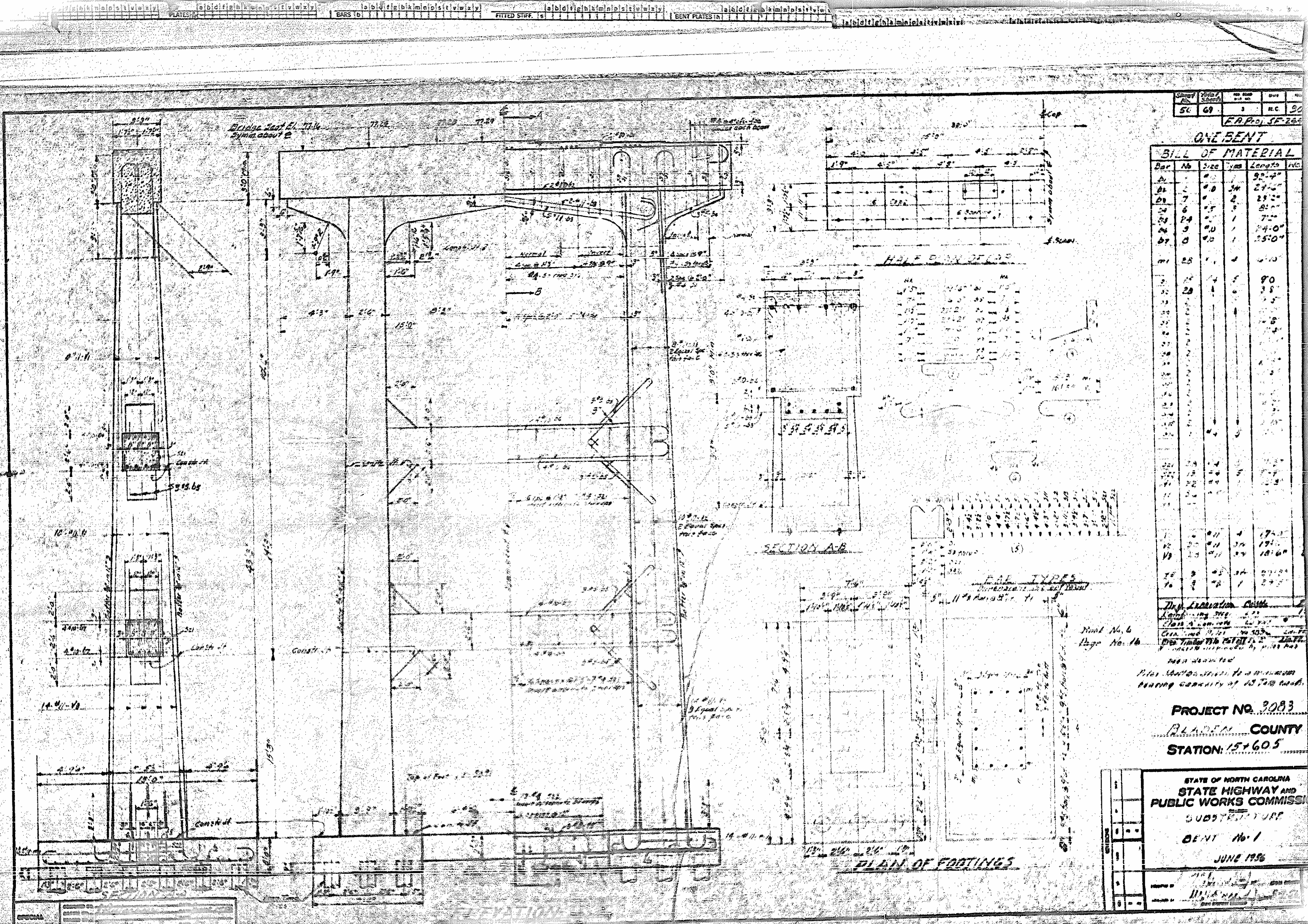
**PROJECT NO. 3003**  
**ALDEN COUNTY**  
**STATION 15+00 S**  
**End Bent No. 1**

STATE OF NORTH CAROLINA  
STATE HIGHWAY AND  
PUBLIC WORKS COMMISSION  
DESIGNED  
SUBSTRUCTURE

DATE: 10/15/28  
DRAWN BY: [Signature]

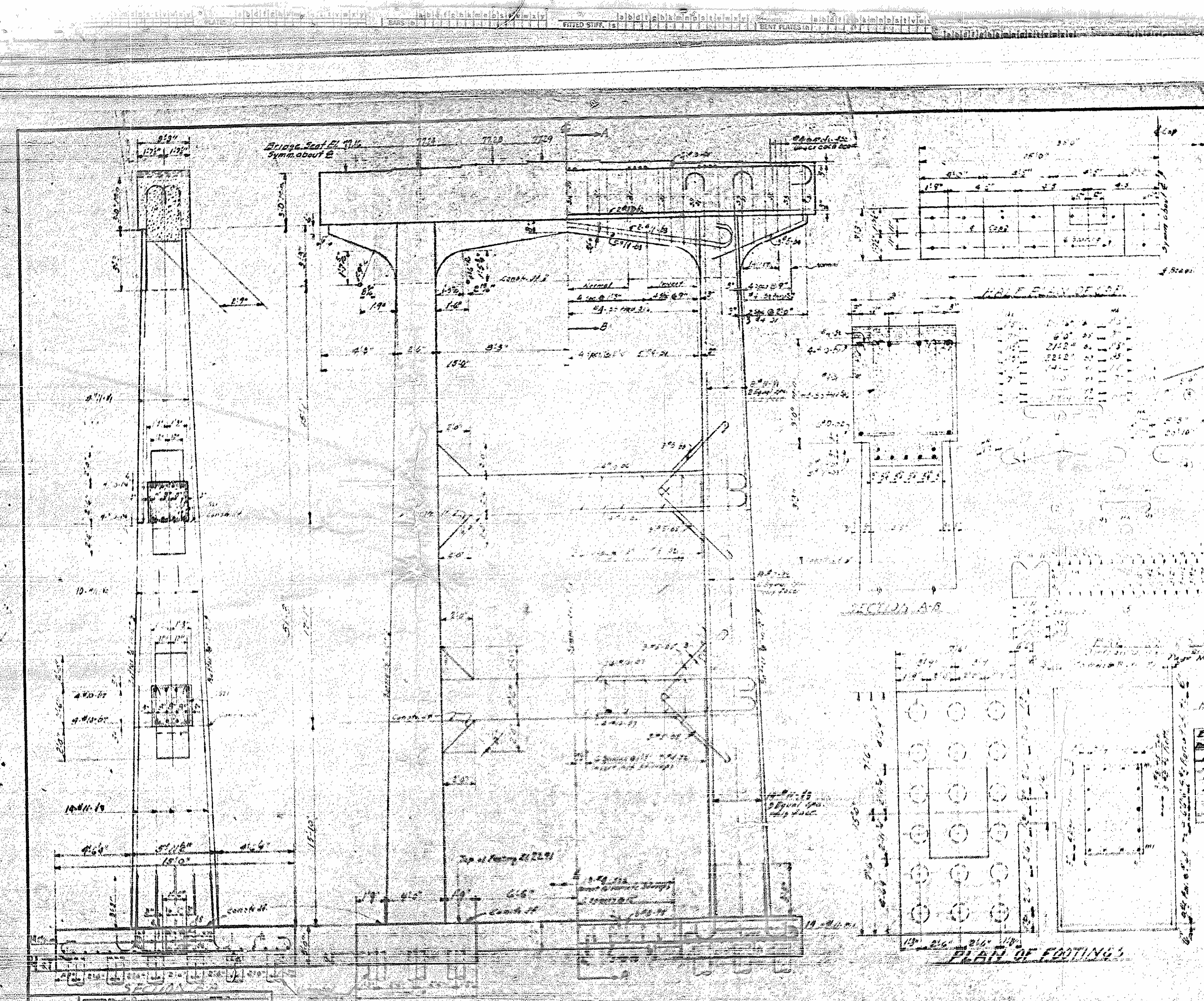


K O D A K S A F E T V A F I F M



**BILL OF MATERIAL**

Bar No.	Size	Length	Quantity	Weight
1	1/2"	10'-0"	1	17.5
2	3/4"	10'-0"	1	19.1
3	1"	10'-0"	1	21.6
4	1 1/4"	10'-0"	1	27.1
5	1 1/2"	10'-0"	1	30.2
6	2"	10'-0"	1	39.6
7	2 1/2"	10'-0"	1	49.0
8	3"	10'-0"	1	58.4
9	3 1/2"	10'-0"	1	67.8
10	4"	10'-0"	1	77.2
11	4 1/2"	10'-0"	1	86.6
12	5"	10'-0"	1	96.0
13	5 1/2"	10'-0"	1	105.4
14	6"	10'-0"	1	114.8
15	6 1/2"	10'-0"	1	124.2
16	7"	10'-0"	1	133.6
17	7 1/2"	10'-0"	1	143.0
18	8"	10'-0"	1	152.4
19	8 1/2"	10'-0"	1	161.8
20	9"	10'-0"	1	171.2
21	9 1/2"	10'-0"	1	180.6
22	10"	10'-0"	1	190.0
23	10 1/2"	10'-0"	1	199.4
24	11"	10'-0"	1	208.8
25	11 1/2"	10'-0"	1	218.2
26	12"	10'-0"	1	227.6
27	12 1/2"	10'-0"	1	237.0
28	13"	10'-0"	1	246.4
29	13 1/2"	10'-0"	1	255.8
30	14"	10'-0"	1	265.2
31	14 1/2"	10'-0"	1	274.6
32	15"	10'-0"	1	284.0
33	15 1/2"	10'-0"	1	293.4
34	16"	10'-0"	1	302.8
35	16 1/2"	10'-0"	1	312.2
36	17"	10'-0"	1	321.6
37	17 1/2"	10'-0"	1	331.0
38	18"	10'-0"	1	340.4
39	18 1/2"	10'-0"	1	349.8
40	19"	10'-0"	1	359.2
41	19 1/2"	10'-0"	1	368.6
42	20"	10'-0"	1	378.0
43	20 1/2"	10'-0"	1	387.4
44	21"	10'-0"	1	396.8
45	21 1/2"	10'-0"	1	406.2
46	22"	10'-0"	1	415.6
47	22 1/2"	10'-0"	1	425.0
48	23"	10'-0"	1	434.4
49	23 1/2"	10'-0"	1	443.8
50	24"	10'-0"	1	453.2
51	24 1/2"	10'-0"	1	462.6
52	25"	10'-0"	1	472.0
53	25 1/2"	10'-0"	1	481.4
54	26"	10'-0"	1	490.8
55	26 1/2"	10'-0"	1	500.2
56	27"	10'-0"	1	509.6
57	27 1/2"	10'-0"	1	519.0
58	28"	10'-0"	1	528.4
59	28 1/2"	10'-0"	1	537.8
60	29"	10'-0"	1	547.2
61	29 1/2"	10'-0"	1	556.6
62	30"	10'-0"	1	566.0
63	30 1/2"	10'-0"	1	575.4
64	31"	10'-0"	1	584.8
65	31 1/2"	10'-0"	1	594.2
66	32"	10'-0"	1	603.6
67	32 1/2"	10'-0"	1	613.0
68	33"	10'-0"	1	622.4
69	33 1/2"	10'-0"	1	631.8
70	34"	10'-0"	1	641.2
71	34 1/2"	10'-0"	1	650.6
72	35"	10'-0"	1	660.0
73	35 1/2"	10'-0"	1	669.4
74	36"	10'-0"	1	678.8
75	36 1/2"	10'-0"	1	688.2
76	37"	10'-0"	1	697.6
77	37 1/2"	10'-0"	1	707.0
78	38"	10'-0"	1	716.4
79	38 1/2"	10'-0"	1	725.8
80	39"	10'-0"	1	735.2
81	39 1/2"	10'-0"	1	744.6
82	40"	10'-0"	1	754.0
83	40 1/2"	10'-0"	1	763.4
84	41"	10'-0"	1	772.8
85	41 1/2"	10'-0"	1	782.2
86	42"	10'-0"	1	791.6
87	42 1/2"	10'-0"	1	801.0
88	43"	10'-0"	1	810.4
89	43 1/2"	10'-0"	1	819.8
90	44"	10'-0"	1	829.2
91	44 1/2"	10'-0"	1	838.6
92	45"	10'-0"	1	848.0
93	45 1/2"	10'-0"	1	857.4
94	46"	10'-0"	1	866.8
95	46 1/2"	10'-0"	1	876.2
96	47"	10'-0"	1	885.6
97	47 1/2"	10'-0"	1	895.0
98	48"	10'-0"	1	904.4
99	48 1/2"	10'-0"	1	913.8
100	49"	10'-0"	1	923.2
101	49 1/2"	10'-0"	1	932.6
102	50"	10'-0"	1	942.0
103	50 1/2"	10'-0"	1	951.4
104	51"	10'-0"	1	960.8
105	51 1/2"	10'-0"	1	970.2
106	52"	10'-0"	1	979.6
107	52 1/2"	10'-0"	1	989.0
108	53"	10'-0"	1	998.4
109	53 1/2"	10'-0"	1	1007.8
110	54"	10'-0"	1	1017.2
111	54 1/2"	10'-0"	1	1026.6
112	55"	10'-0"	1	1036.0
113	55 1/2"	10'-0"	1	1045.4
114	56"	10'-0"	1	1054.8
115	56 1/2"	10'-0"	1	1064.2
116	57"	10'-0"	1	1073.6
117	57 1/2"	10'-0"	1	1083.0
118	58"	10'-0"	1	1092.4
119	58 1/2"	10'-0"	1	1101.8
120	59"	10'-0"	1	1111.2
121	59 1/2"	10'-0"	1	1120.6
122	60"	10'-0"	1	1130.0
123	60 1/2"	10'-0"	1	1139.4
124	61"	10'-0"	1	1148.8
125	61 1/2"	10'-0"	1	1158.2
126	62"	10'-0"	1	1167.6
127	62 1/2"	10'-0"	1	1177.0
128	63"	10'-0"	1	1186.4
129	63 1/2"	10'-0"	1	1195.8
130	64"	10'-0"	1	1205.2
131	64 1/2"	10'-0"	1	1214.6
132	65"	10'-0"	1	1224.0
133	65 1/2"	10'-0"	1	1233.4
134	66"	10'-0"	1	1242.8
135	66 1/2"	10'-0"	1	1252.2
136	67"	10'-0"	1	1261.6
137	67 1/2"	10'-0"	1	1271.0
138	68"	10'-0"	1	1280.4
139	68 1/2"	10'-0"	1	1289.8
140	69"	10'-0"	1	1299.2
141	69 1/2"	10'-0"	1	1308.6
142	70"	10'-0"	1	1318.0
143	70 1/2"	10'-0"	1	1327.4
144	71"	10'-0"	1	1336.8
145	71 1/2"	10'-0"	1	1346.2
146	72"	10'-0"	1	1355.6
147	72 1/2"	10'-0"	1	1365.0
148	73"	10'-0"	1	1374.4
149	73 1/2"	10'-0"	1	1383.8
150	74"	10'-0"	1	1393.2
151	74 1/2"	10'-0"	1	1402.6
152	75"	10'-0"	1	1412.0
153	75 1/2"	10'-0"	1	1421.4
154	76"	10'-0"	1	1430.8
155	76 1/2"	10'-0"	1	1440.2
156	77"	10'-0"	1	1449.6
157	77 1/2"	10'-0"	1	1459.0
158	78"	10'-0"	1	1468.4
159	78 1/2"	10'-0"	1	1477.8
160	79"	10'-0"	1	1487.2
161	79 1/2"	10'-0"	1	1496.6
162	80"	10'-0"	1	1506.0
163	80 1/2"	10'-0"	1	1515.4
164	81"	10'-0"	1	1524.8
165	81 1/2"	10'-0"	1	1534.2
166	82"	10'-0"	1	1543.6
167	82 1/2"	10'-0"	1	1553.0
168	83"	10'-0"	1	1562.4
169	83 1/2"	10'-0"	1	1571.8
170	84"	10'-0"	1	1581.2
171	84 1/2"	10'-0"	1	1590.6
172	85"	10'-0"	1	1600.0
173	85 1/2"	10'-0"	1	1609.4
174	86"	10'-0"	1	1618.8
175	86 1/2"	10'-0"	1	1628.2
176	87"	10'-0"	1	1637.6
177	87 1/2"	10'-0"	1	1647.0
178	88"	10'-0"	1	1656.4
179	88 1/2"	10'-0"	1	1665.8
180	89"	10'-0"	1	1675.2
181	89 1/2"	10'-0"	1	1684.6
182	90"	10'-0"	1	1694.0
183	90 1/2"	10'-0"	1	1703.4
184	91"	10'-0"	1	1712.8
185	91 1/2"	10'-0"	1	1722.2
186	92"	10'-0"	1	1731.6
187	92 1/2"	10'-0"	1	1741.0
188	93"	10'-0"	1	1750.4
189	93 1/2"	10'-0"	1	1759.8
190	94"	10'-0"	1	1769.2
191	94 1/2"	10'-0"	1	1778.6
192	95"	10'-0"	1	1788.0
193	95 1/2"	10'-0"	1	1797.4
194	96"	10'-0"	1	1806.8
195	96 1/2"	10'-0"	1	1816.2
196	97"	10'-0"	1	1825.6
197	97 1/2"	10'-0"	1	1835.0
198	98"	10'-0"	1	1844.4
199	98 1/2"	10'-0"	1	1853.8
200	99"	10'-0"	1	1863.2
201	99 1/2"	10'-0"	1	1872.6
202	100"	10'-0"	1	1882.0
203	100 1/2"	10'-0"	1	1891.4
204	101"	10'-0"	1	1900.8
205	101 1/2"	10'-0"	1	1910.2
206	102"	10'-0"	1	1919.6
207	102 1/2"	10'-0"	1	1929.0
208	103"	10'-0"	1	1938.4
209	103 1/2"	10'-0"	1	1947.8
210	104"	10'-0"	1	1957.2
211	104 1/2"	10'-0"	1	1966.6
212	105"	10'-0"	1	1976.0
213	105 1/2"	10'-0"	1	1985.4
214	106"	10'-0"	1	1994.8
215	106 1/2"	10'-0"	1	2004.2
216	107"	10'-0"	1	2013.6
217	107 1/2"	10'-0"	1	2023.0
218	108"	10'-0"	1	2032.4
219	108 1/2"	10'-0"	1	2041.8
220	109"	10'-0"	1	2051.2
221	109 1/2"	10'-0"	1	2060.6
222	110"	10'-0"	1	2070.0
223	110 1/2"	10'-0"	1	2079.4
224	111"	10'-0"	1	2088.8
225	111 1/2"	10'-0"	1	2098.2
226	112"	10'-0"	1	2107.6
227	112 1/2"	10'-0"	1	2117.0
228	113"	10'-0"	1	2126.4
229	113 1/2"	10'-0"	1	2135.8
230	114"	10'-0"	1	2145.2
231	114 1/2"	10'-0"	1	2154.6
232	115"	10'-0"	1	2164.0
233	115 1/2"	10'-0"	1	2173.4
234	116"	10'-0"	1	2182.8
235	116 1/2"	10'-0"	1	2192.2
236	117"	10'-0"	1	2201.6
237	117 1/2"	10'-0"	1	2211.0
238	118"	10'-0"	1	2220.4
239	118 1/2"	10'-0"	1	2229.8
240	119"	10'-0"	1	2239.2
241	119 1/2"	10'-0"	1	2248.6
242	120"	10'-0"	1	2258.0
243	120 1/2"	10'-0"	1	2267.4
244	121"	10'-0"	1	2276.8
245	121 1/2"	10'-0"	1	2286.2
246	122"	10'-0"	1	2295.6
247	122 1/2"	10'-0"	1	2305.0
248	123"	10'-0"	1	2314.4
249	123 1/2"	10'-0"	1	2323.8
250	124"	10'-0"	1	2333.2



SHEET NO. 69  
 DATE 1935  
 PROJECT NO. 9053  
 STATION 15+

**ONE BENT-6 REQ**

**BILL OF MATERIAL**

Bar No.	Size	Length	Quantity
1	1 1/2"	32'4"	1
2	1 1/2"	29'6"	2
3	1 1/2"	28'0"	2
4	1 1/2"	24'0"	1
5	1 1/2"	24'0"	1
6	1 1/2"	25'0"	1
7	1 1/2"	6'10"	1
8	1 1/2"	9'0"	1
9	1 1/2"	9'5"	1
10	1 1/2"	10'0"	1
11	1 1/2"	10'5"	1
12	1 1/2"	11'0"	1
13	1 1/2"	11'5"	1
14	1 1/2"	12'0"	1
15	1 1/2"	12'5"	1
16	1 1/2"	13'0"	1
17	1 1/2"	13'5"	1
18	1 1/2"	14'0"	1
19	1 1/2"	14'5"	1
20	1 1/2"	15'0"	1
21	1 1/2"	15'5"	1
22	1 1/2"	16'0"	1
23	1 1/2"	16'5"	1
24	1 1/2"	17'0"	1
25	1 1/2"	17'5"	1
26	1 1/2"	18'0"	1
27	1 1/2"	18'5"	1
28	1 1/2"	19'0"	1
29	1 1/2"	19'5"	1
30	1 1/2"	20'0"	1
31	1 1/2"	20'5"	1
32	1 1/2"	21'0"	1
33	1 1/2"	21'5"	1
34	1 1/2"	22'0"	1
35	1 1/2"	22'5"	1
36	1 1/2"	23'0"	1
37	1 1/2"	23'5"	1
38	1 1/2"	24'0"	1
39	1 1/2"	24'5"	1
40	1 1/2"	25'0"	1

**EXAMINATION**  
 This bent is shown to a minimum  
 bearing capacity of 15 tons each.  
**PROJECT NO. 9053**  
**BLADEN COUNTY**  
**STATION 15+**

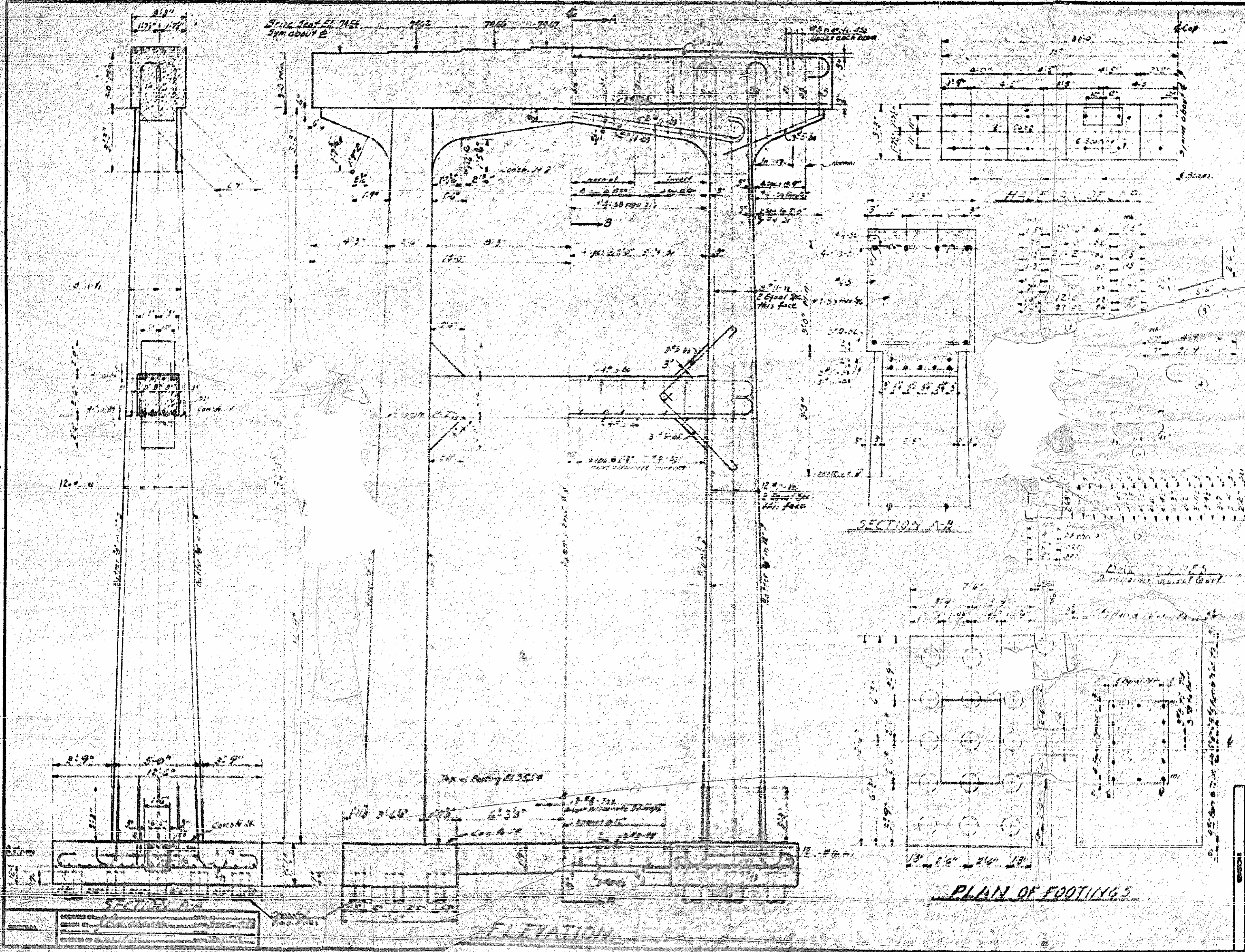
STATE OF NORTH CAROLINA  
 STATE HIGHWAY AND  
 PUBLIC WORKS COMMISSION  
 SUB-PROJECT  
 BENT No. 23456  
 JUNE 1935

SPECIAL  
 DRAWING NO. 100

EXPLANATION

PLAN OF FOOTING





Sheet No.	Total Sheets	Scale	Project No.
58	67	1" = 10'	3093

**ONE BENT**

**BILL OF MATERIAL**

Qty	No.	Size	Length	Vol.
24	4	#4	32'0"	
24	4	#4	29'0"	
24	7	#4	28'0"	
24	6	#4	8'0"	
24	12	#4	7'0"	
24	5	#4	24'0"	
24	1	#4		
24	24	#4	6'0"	
24	25	#4	9'0"	
24	26	#4	7'0"	
24	27	#4	11'0"	
24	28	#4	11'0"	
24	29	#4	11'0"	
24	30	#4	11'0"	
24	31	#4	11'0"	
24	32	#4	11'0"	
24	33	#4	11'0"	
24	34	#4	11'0"	
24	35	#4	11'0"	
24	36	#4	11'0"	
24	37	#4	11'0"	
24	38	#4	11'0"	
24	39	#4	11'0"	
24	40	#4	11'0"	
24	41	#4	11'0"	
24	42	#4	11'0"	
24	43	#4	11'0"	
24	44	#4	11'0"	
24	45	#4	11'0"	
24	46	#4	11'0"	
24	47	#4	11'0"	
24	48	#4	11'0"	
24	49	#4	11'0"	
24	50	#4	11'0"	
24	51	#4	11'0"	
24	52	#4	11'0"	
24	53	#4	11'0"	
24	54	#4	11'0"	
24	55	#4	11'0"	
24	56	#4	11'0"	
24	57	#4	11'0"	
24	58	#4	11'0"	
24	59	#4	11'0"	
24	60	#4	11'0"	
24	61	#4	11'0"	
24	62	#4	11'0"	
24	63	#4	11'0"	
24	64	#4	11'0"	
24	65	#4	11'0"	
24	66	#4	11'0"	
24	67	#4	11'0"	

Day Location: ...  
 Date: ...  
 Scale: ...  
 Drawn by: ...  
 Checked by: ...

**PROJECT NO. 3093**  
**BLADEN COUNTY**  
**STATION: 15+40**

STATE OF NORTH CAROLINA  
 STATE HIGHWAY AND  
 PUBLIC WORKS COMMISSION  
 BENT No. 14  
 JUNE 1956