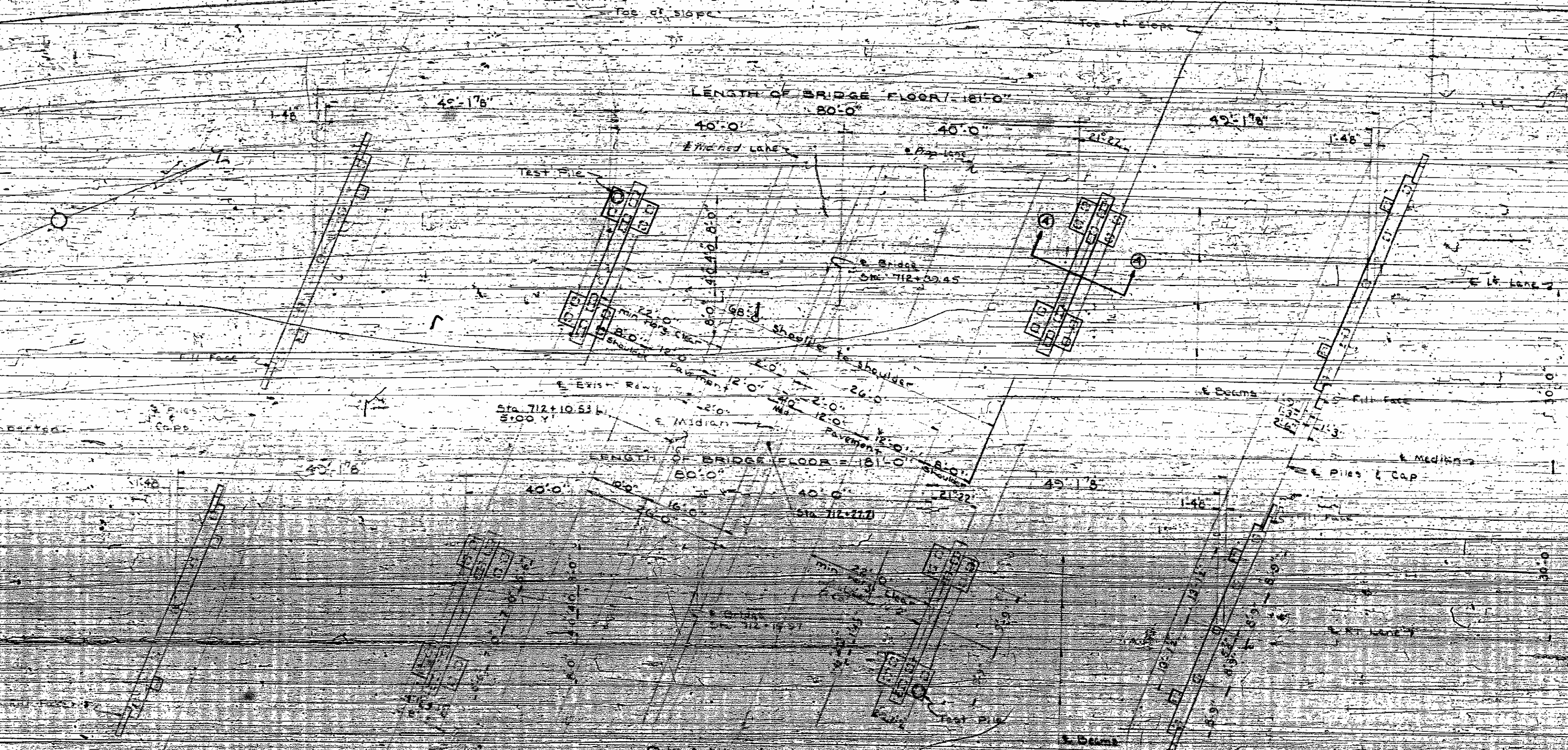


THE ROAD DIST. NO.	STATE	PROJECT
1	N.C.	8396
P.A. Proj. 1/25-63		

1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000



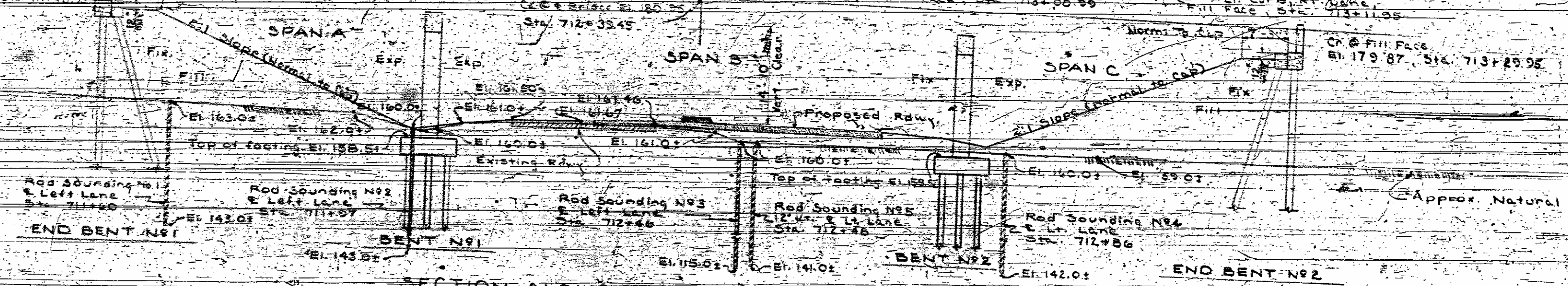
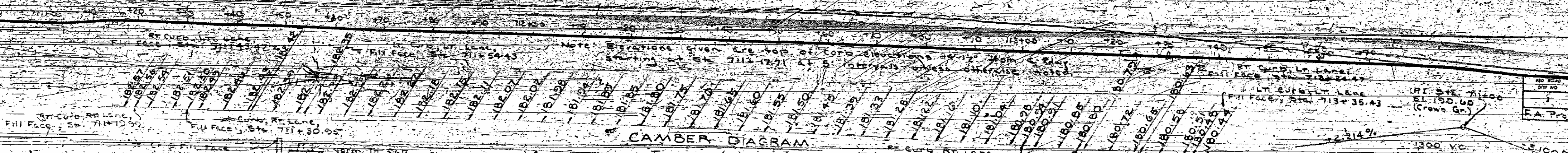
PLAN

NOTES

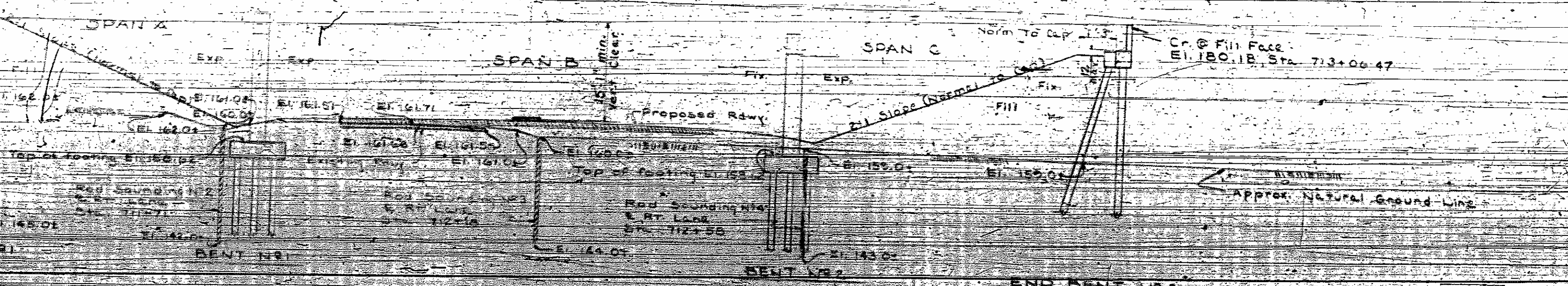
Assumed Live Load  
 H20-516 (or Alternate Loading)  
 For other design details and general notes, see sheet 54  
 All exposed concrete surfaces shall be 3,000 psi Class I finish in accordance with the specifications.  
 The contractor shall be required to drive a 2 1/2 inch diameter prestressed concrete test piles in place. One shall be driven in center of each lane and one shall be driven in each of right hand as indicated in the General Notes. These test piles shall be paid for as long as 45 feet of 12 inch diameter piles. The order lengths for all piles will be furnished after the test piles have been driven. Piles shall be driven to and following minimum bearing capacities of 20 and 30 tons each and located as shown on the plan. The contractor will be required to excavate to the following elevations before driving piles in these areas:  
 Sta. 712+10.53 2.00'  
 Sta. 712+11.77 2.00'  
 Sta. 712+12.77 2.00'

PROJECT NO. 8396  
 ROBESON-CUMBERLAND COUNTY  
 STATION 712+10.53

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 GENERAL DRAWING FOR  
 BRIDGES OVER NC 20 ON  
 US 301 BETWEEN  
 CUMBERLAND &  
 FAYETTEVILLE  
 DECEMBER 1962

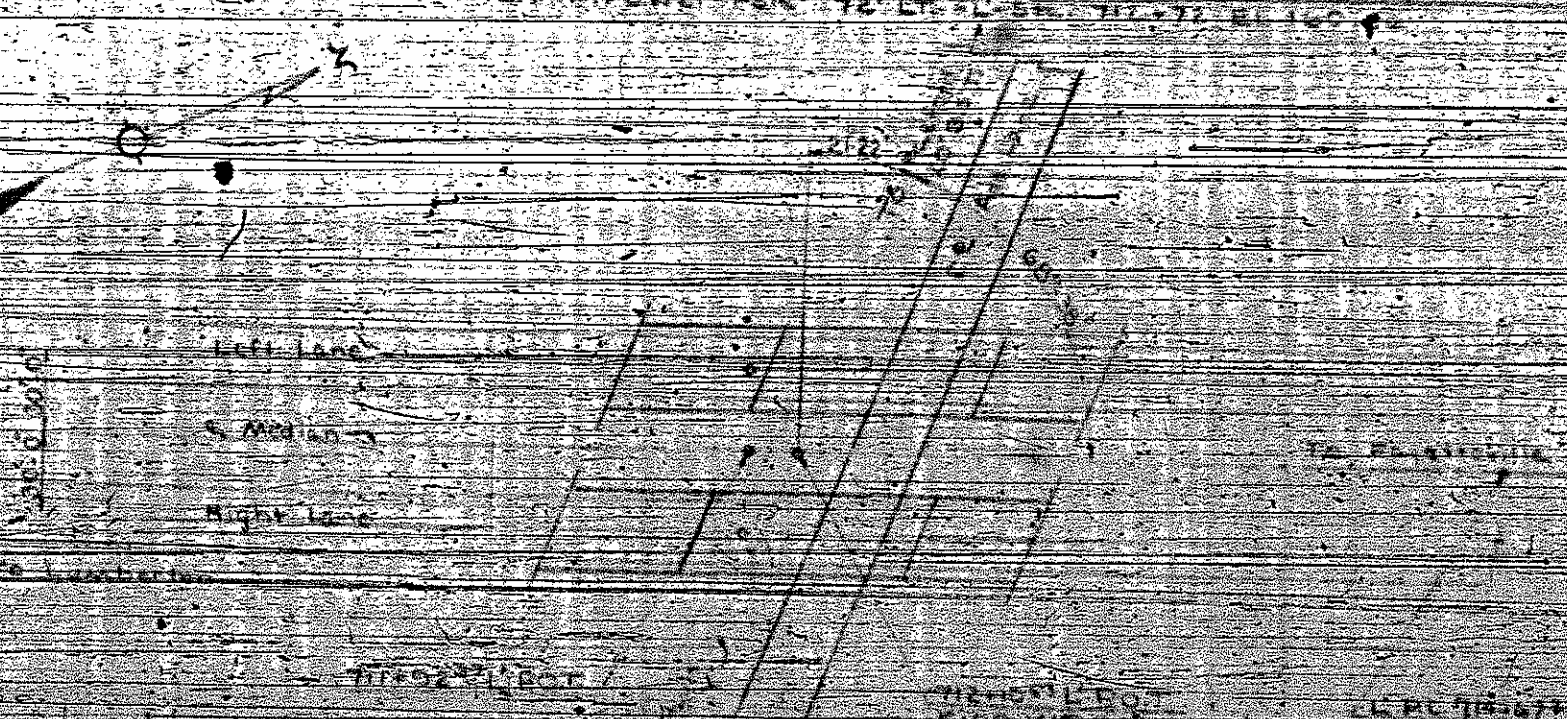


SECTION ALONG S BRIDGE (ALL BENTS ON SECTION A-A) LEFT LANE



SECTION ALONG S BRIDGE (ALL BENTS ON SECTION A-A) RIGHT LANE

LOCATION SKETCH



TOTAL BILL OF MATERIAL - LEFT LANE						
	CLASS 'A' CONCRETE	STRUCT STEEL	REINF STEEL	12" PRESTRESSED CONCRETE PILES	UNCLAYE STRUTS	CU YARDS
SUPERSTRUCTURE	105.5	107,200	34,141	NS	LN, PT	CU YARDS
END BENT N#1	1.8		4,336	7	273	
BENT N#1	23.6		4,520	12	301	35
BENT N#2	25.2		4,463	12	285	
END BENT N#2	12.0		2,336	7	273	
APPROACH CURBS	3.2		76			
<b>TOTALS</b>	<b>243.3</b>	<b>217,200</b>	<b>47,672</b>	<b>38</b>	<b>1,125</b>	

TOTAL BILL OF MATERIAL - RIGHT LANE						
	CLASS 'A' CONCRETE	STRUCT STEEL	REINF STEEL	12" PRESTRESSED CONCRETE PILES	UNCLAYE STRUTS	CU YARDS
SUPERSTRUCTURE	105.5	107,200	34,141	NS	LN, PT	CU YARDS
END BENT N#1	1.8		4,336	7	273	
BENT N#1	23.6		4,520	12	301	35
BENT N#2	25.2		4,463	12	285	
END BENT N#2	12.0		2,336	7	273	
APPROACH CURBS	3.2		76			
<b>TOTALS</b>	<b>243.3</b>	<b>217,200</b>	<b>47,672</b>	<b>38</b>	<b>1,125</b>	

PROJECT NO. B.1382

ROBEYSON-CUMBERLAND COUNTY

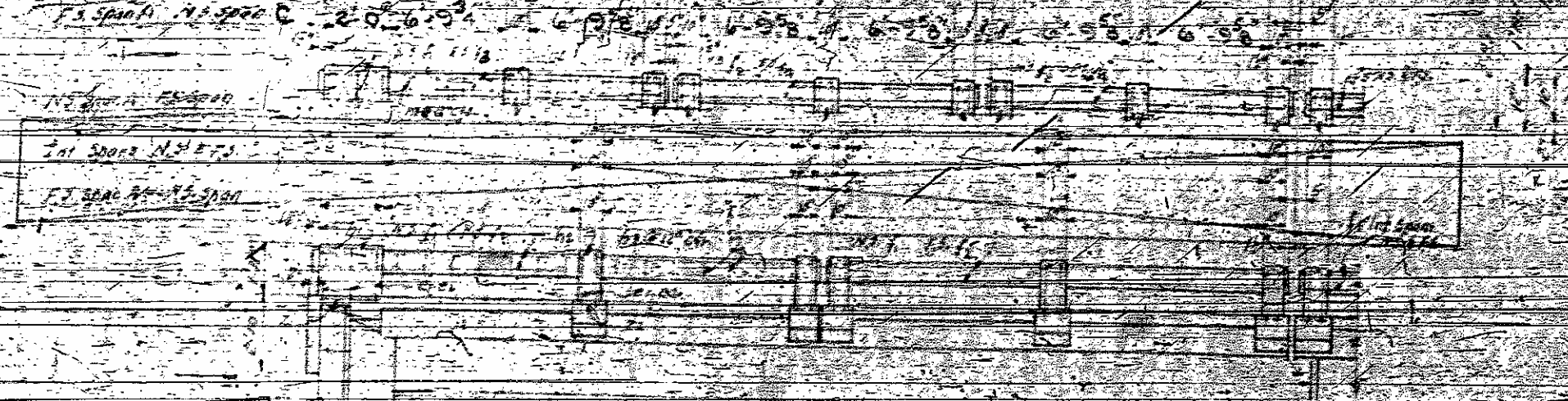
STATION: 2+10.43

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 GENERAL DRAWING FOR  
 BRIDGES OVER NC 20 IN  
 US 501 BETWEEN  
 LUMBERTON &  
 FAYETTEVILLE  
 DECEMBER 1958

Project No. 13562  
 F.A. Proj. I-95-1(633)  
 DATE

For Seaming Requirements  
 High Strength Bolts  
 Special Provisions

For Design Data on Expansion Joints  
 See Sheet 5-4

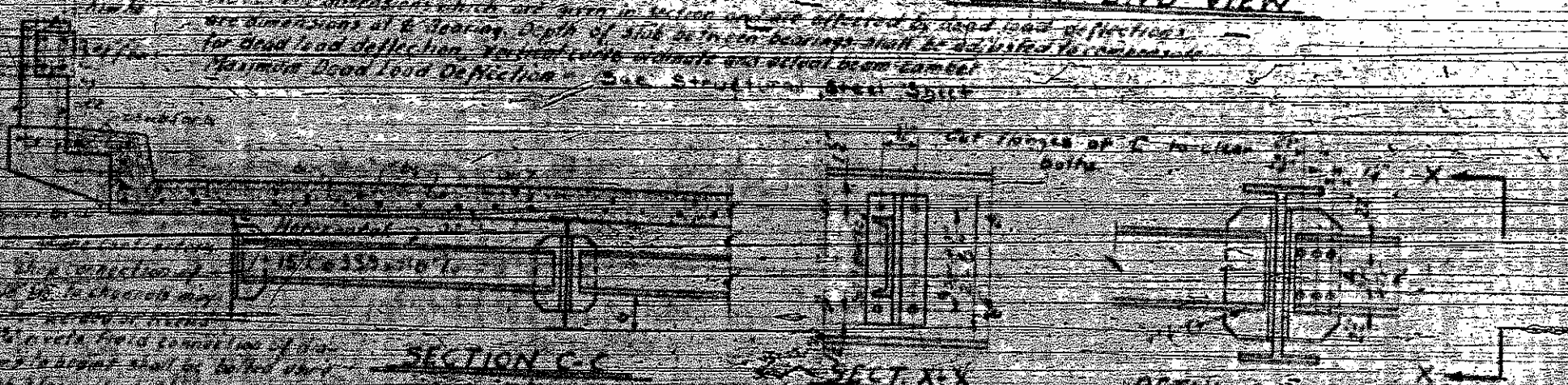


POST DETAILS



HALF TYPICAL SECTION

HALF END VIEW



SECTION C-C

SECTION A-A

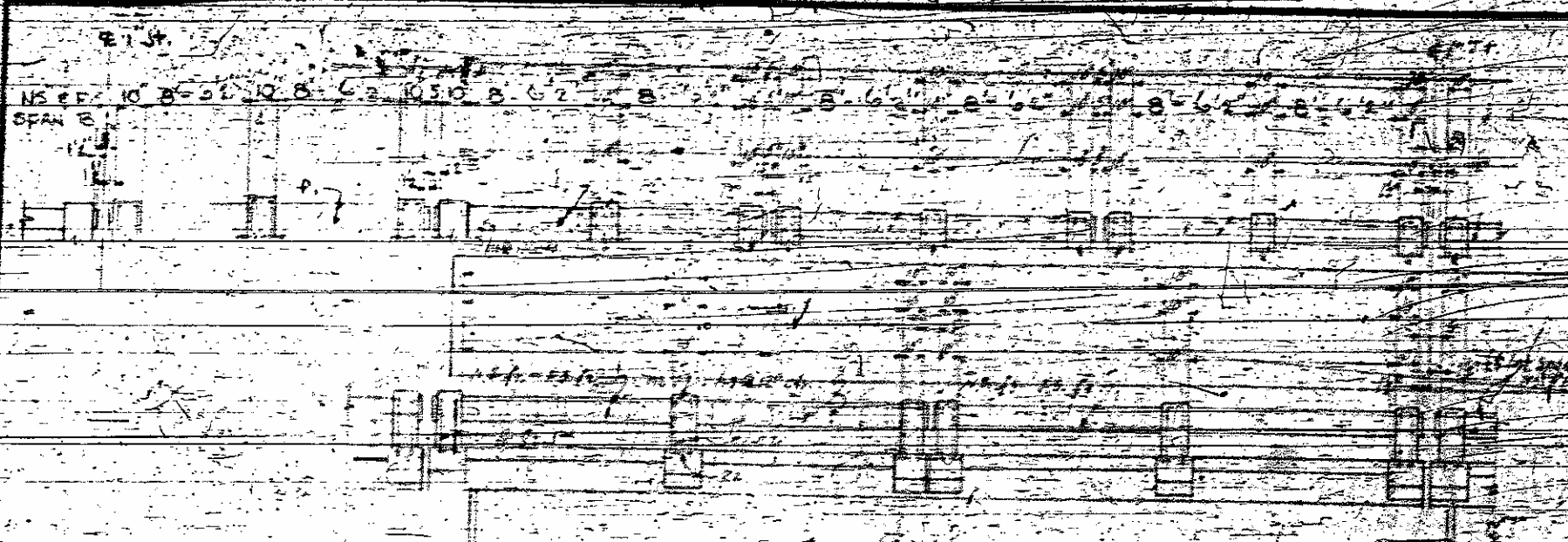
DETAIL DIAPHRAGM CONNECTION

NOTE: All dimensions which are given in section views are affected by dead load deflection. The dimensions at the bearing depth of slab between bearings shall be adjusted to compensate for dead load deflection. See Structure Steel Splice

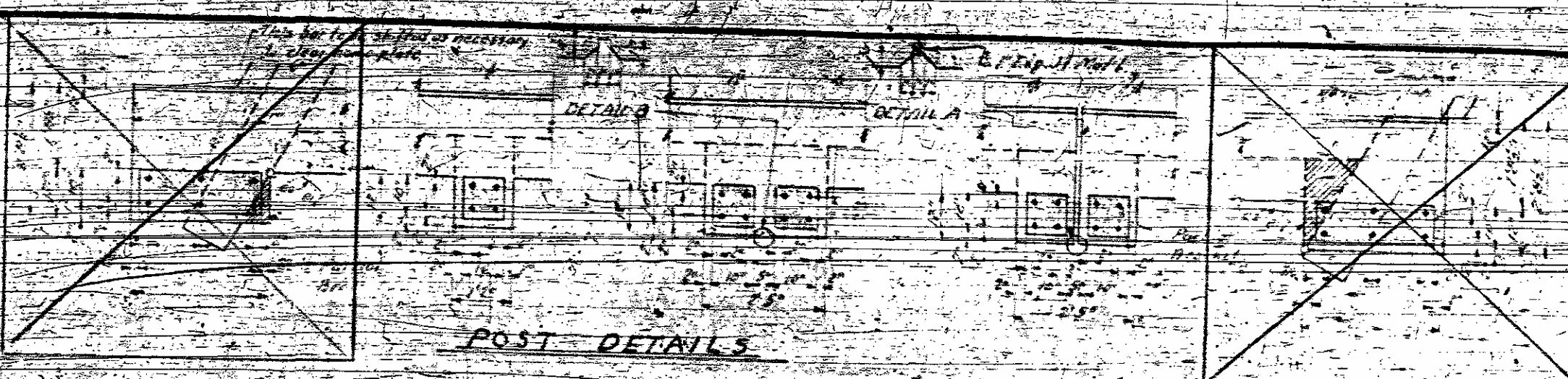
ONE BRIDGE TWO REQUIRED  
 BILL OF MATERIAL FOR ONE SPAN TWO REQ'D

NO.	QTY	TYPE	SIZE	LENGTH	WEIGHT	NO.	QTY	TYPE	SIZE	LENGTH	WEIGHT
1	1	PL	1/2"	2520	4.3	1	1	PL	1/2"	2520	4.3
2	2	PL	1/2"	2520	4.3	2	2	PL	1/2"	2520	4.3
3	2	PL	1/2"	2520	4.3	3	2	PL	1/2"	2520	4.3
4	2	PL	1/2"	2520	4.3	4	2	PL	1/2"	2520	4.3
5	2	PL	1/2"	2520	4.3	5	2	PL	1/2"	2520	4.3
6	2	PL	1/2"	2520	4.3	6	2	PL	1/2"	2520	4.3
7	2	PL	1/2"	2520	4.3	7	2	PL	1/2"	2520	4.3
8	2	PL	1/2"	2520	4.3	8	2	PL	1/2"	2520	4.3
9	2	PL	1/2"	2520	4.3	9	2	PL	1/2"	2520	4.3
10	2	PL	1/2"	2520	4.3	10	2	PL	1/2"	2520	4.3
11	2	PL	1/2"	2520	4.3	11	2	PL	1/2"	2520	4.3
12	2	PL	1/2"	2520	4.3	12	2	PL	1/2"	2520	4.3
13	2	PL	1/2"	2520	4.3	13	2	PL	1/2"	2520	4.3
14	2	PL	1/2"	2520	4.3	14	2	PL	1/2"	2520	4.3
15	2	PL	1/2"	2520	4.3	15	2	PL	1/2"	2520	4.3
16	2	PL	1/2"	2520	4.3	16	2	PL	1/2"	2520	4.3
17	2	PL	1/2"	2520	4.3	17	2	PL	1/2"	2520	4.3
18	2	PL	1/2"	2520	4.3	18	2	PL	1/2"	2520	4.3
19	2	PL	1/2"	2520	4.3	19	2	PL	1/2"	2520	4.3
20	2	PL	1/2"	2520	4.3	20	2	PL	1/2"	2520	4.3
21	2	PL	1/2"	2520	4.3	21	2	PL	1/2"	2520	4.3
22	2	PL	1/2"	2520	4.3	22	2	PL	1/2"	2520	4.3
23	2	PL	1/2"	2520	4.3	23	2	PL	1/2"	2520	4.3
24	2	PL	1/2"	2520	4.3	24	2	PL	1/2"	2520	4.3
25	2	PL	1/2"	2520	4.3	25	2	PL	1/2"	2520	4.3
26	2	PL	1/2"	2520	4.3	26	2	PL	1/2"	2520	4.3
27	2	PL	1/2"	2520	4.3	27	2	PL	1/2"	2520	4.3
28	2	PL	1/2"	2520	4.3	28	2	PL	1/2"	2520	4.3
29	2	PL	1/2"	2520	4.3	29	2	PL	1/2"	2520	4.3
30	2	PL	1/2"	2520	4.3	30	2	PL	1/2"	2520	4.3
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32	2	PL	1/2"	2520	4.3	32	2	PL	1/2"	2520	4.3
33	2	PL	1/2"	2520	4.3	33	2	PL	1/2"	2520	4.3
34	2	PL	1/2"	2520	4.3	34	2	PL	1/2"	2520	4.3
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36	2	PL	1/2"	2520	4.3	36	2	PL	1/2"	2520	4.3
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46	2	PL	1/2"	2520	4.3	46	2	PL	1/2"	2520	4.3
47	2	PL	1/2"	2520	4.3	47	2	PL	1/2"	2520	4.3
48	2	PL	1/2"	2520	4.3	48	2	PL	1/2"	2520	4.3
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54	2	PL	1/2"	2520	4.3	54	2	PL	1/2"	2520	4.3
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60	2	PL	1/2"	2520	4.3	60	2	PL	1/2"	2520	4.3
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64	2	PL	1/2"	2520	4.3	64	2	PL	1/2"	2520	4.3
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67	2	PL	1/2"	2520	4.3	67	2	PL	1/2"	2520	4.3
68	2	PL	1/2"	2520	4.3	68	2	PL	1/2"	2520	4.3
69	2	PL	1/2"	2520	4.3	69	2	PL	1/2"	2520	4.3
70	2	PL	1/2"	2520	4.3	70	2	PL	1/2"	2520	4.3
71	2	PL	1/2"	2520	4.3	71	2	PL	1/2"	2520	4.3
72	2	PL	1/2"	2520	4.3	72	2	PL	1/2"	2520	4.3
73	2	PL	1/2"	2520	4.3	73	2	PL	1/2"	2520	4.3
74	2	PL	1/2"	2520	4.3	74	2	PL	1/2"	2520	4.3
75	2	PL	1/2"	2520	4.3	75	2	PL	1/2"	2520	4.3
76	2	PL	1/2"	2520	4.3	76	2	PL	1/2"	2520	4.3
77	2	PL	1/2"	2520	4.3	77	2	PL	1/2"	2520	4.3
78	2	PL	1/2"	2520	4.3	78	2	PL	1/2"	2520	4.3
79	2	PL	1/2"	2520	4.3	79	2	PL	1/2"	2520	4.3
80	2	PL	1/2"	2520	4.3	80	2	PL	1/2"	2520	4.3
81	2	PL	1/2"	2520	4.3	81	2	PL	1/2"	2520	4.3
82	2	PL	1/2"	2520	4.3	82	2	PL	1/2"	2520	4.3
83	2	PL	1/2"	2520	4.3	83	2	PL	1/2"	2520	4.3
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98	2	PL	1/2"	2520	4.3	98	2	PL	1/2"	2520	4.3
99	2	PL	1/2"	2520	4.3	99	2	PL	1/2"	2520	4.3
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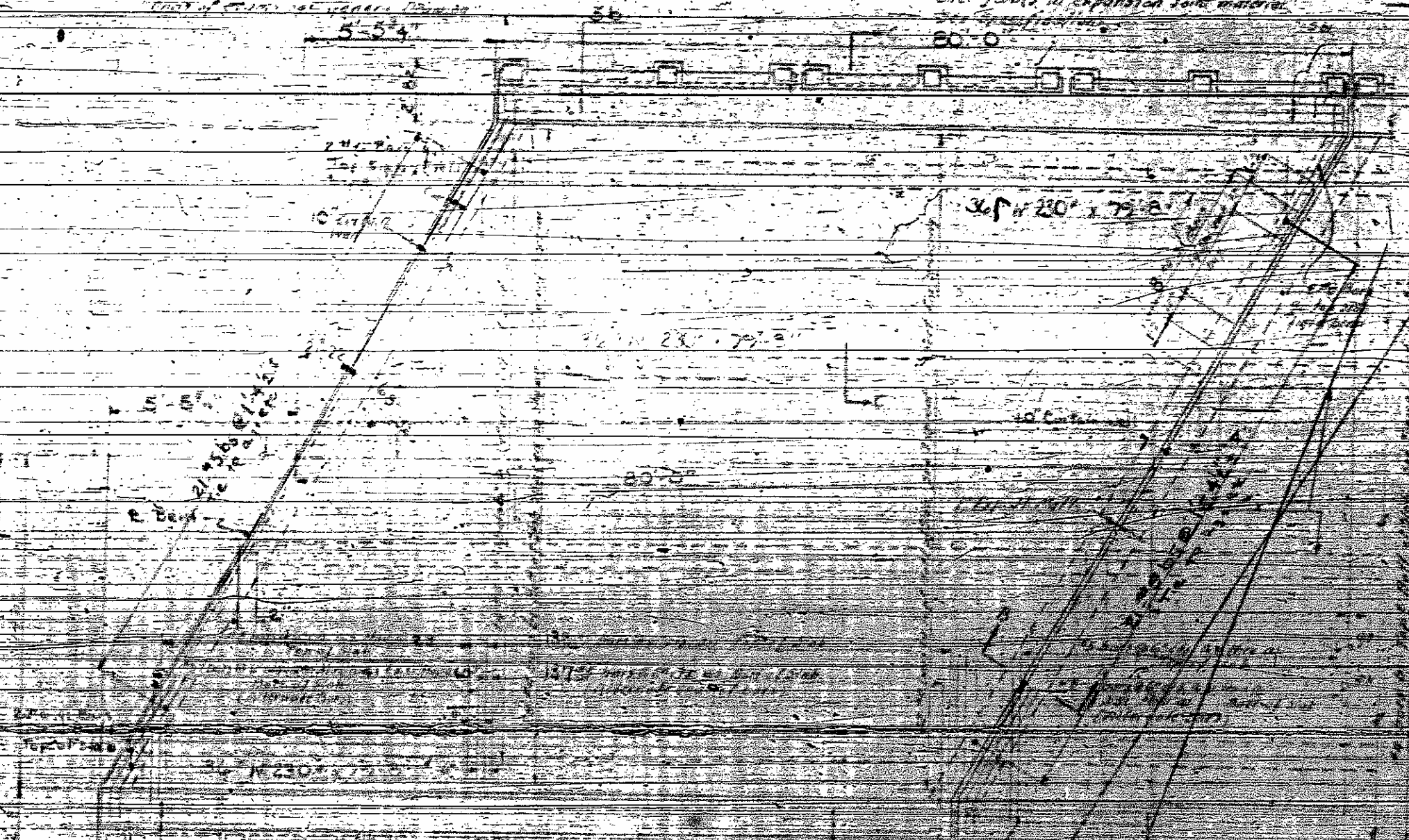
PROJECT NO. 13562  
 ROBESON  
 CUMBERLAND COUNTY  
 STATION 712+00 L  
 LT. OF RD. LANE  
 SPANS ACC  
 STATE HIGHWAY COMMISSION  
 STANDARD  
 I-BEAM SUPERSTRUCTURE  
 WITH R.C. FLOOR & RAIL  
 2 @ 80' SPANS  
 28' ROADWAY @ 2' L.H. SLOPE  
 MAY 1937



ELEVATION



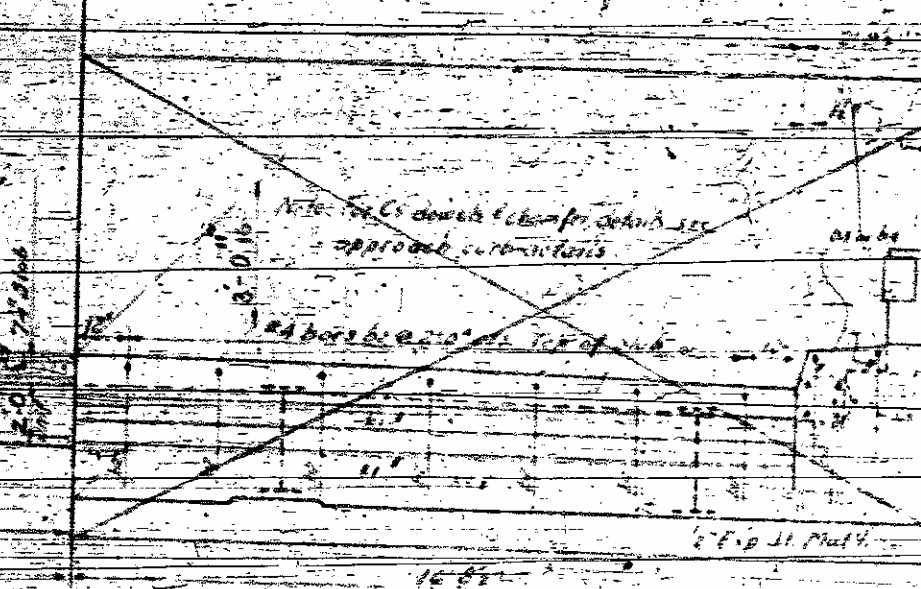
POST DETAILS



PLAN



HALF TYPICAL SECTION



HALF END VIEW

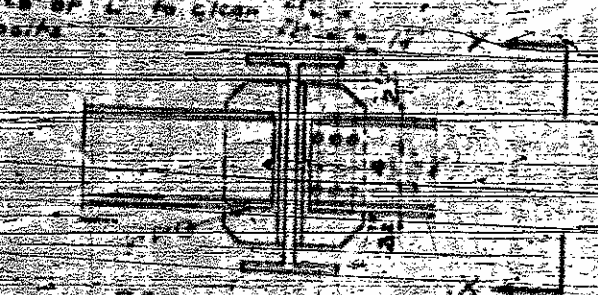
NOTE: All dimensions which are in this section and are affected by dead load deflections are dimensions at a bearing depth of 2' below the bearing shall be adjusted to compensate for dead load deflection. Vertical curve, roadway and deck beam camber. Maximum dead load deflection - One Standard Steel Sheet.



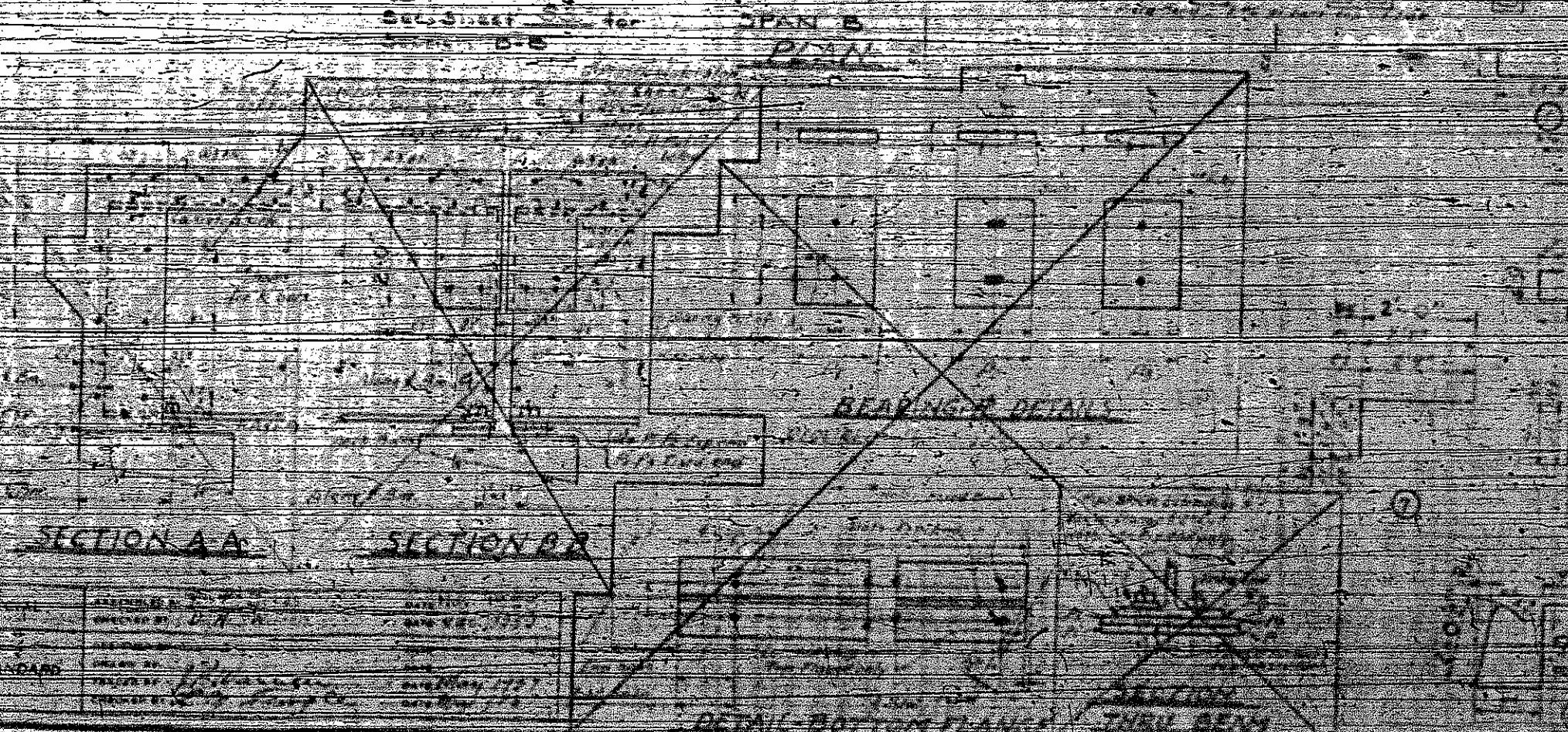
SECTION C-C



SECTION X-X



DETAIL DIAPHRAGM CONNECTION



BEARING DETAILS

SECTION A-A

SECTION B-B

ONE BRIDGE TWO REQUIRED

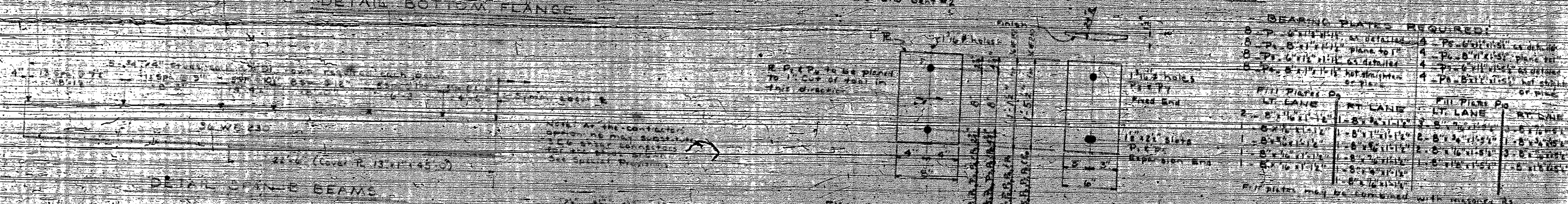
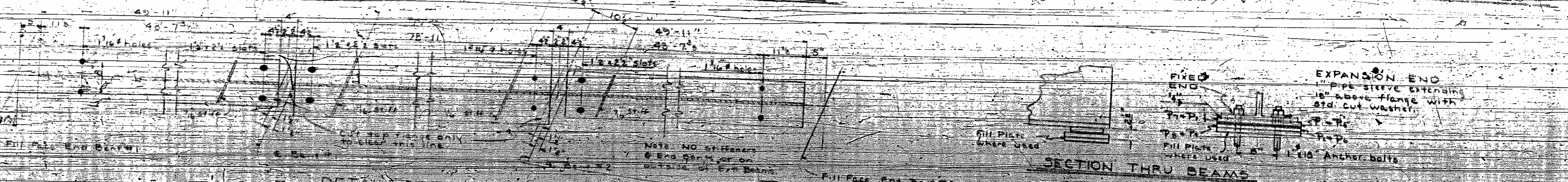
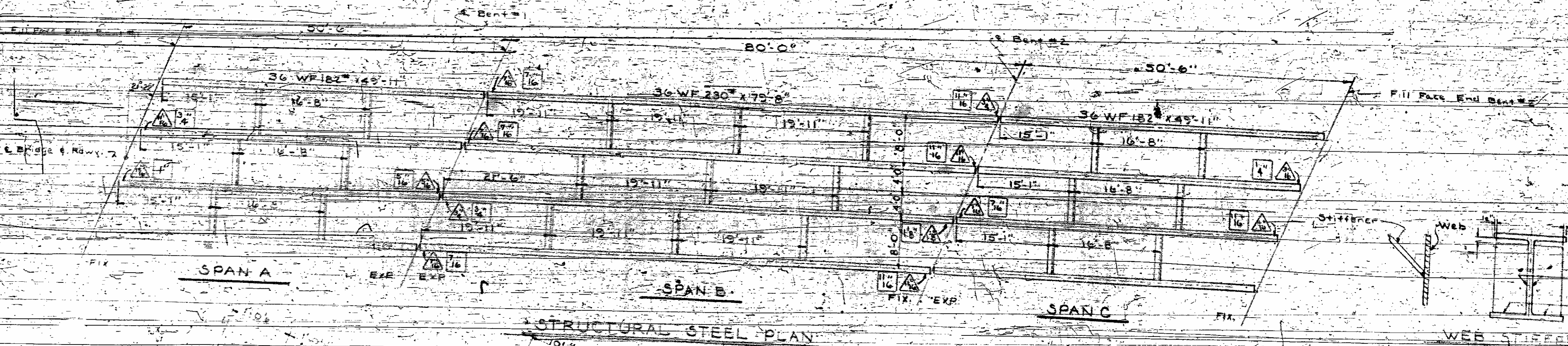
BILL OF MATERIAL FOR ONE 80' INTERIOR SPAN

Item	Qty	Unit	Length	Weight	Notes
1	1	ft	1402	11	1
2	2	ft	4545	11	2
3	2	ft	25.2	59	2
4	2	ft	10.11	56	2
5	2	ft	25.5	54	2
6	2	ft	24.4	51	2
7	2	ft	25.1	48	2
8	2	ft	12.50	46	2
9	2	ft	10.6	43	2
10	2	ft	19.3	40	2
11	2	ft	16.0	38	2
12	2	ft	10.7	32	2
13	2	ft	15.5	32	2
14	2	ft	4.2	5	2
15	2	ft	11.7	27	2
16	2	ft	2.4	7	2
17	2	ft	2.4	7	2
18	2	ft	19	16	2
19	2	ft	7.8	16	2
20	2	ft	8.2	14	2
21	2	ft	2.1	5	2
22	2	ft	2.1	5	2
23	2	ft	2.1	5	2
24	2	ft	2.1	5	2
25	2	ft	2.1	5	2
26	2	ft	2.1	5	2
27	2	ft	2.1	5	2
28	2	ft	2.1	5	2
29	2	ft	2.1	5	2
30	2	ft	2.1	5	2
31	2	ft	2.1	5	2
32	2	ft	2.1	5	2
33	2	ft	2.1	5	2
34	2	ft	2.1	5	2
35	2	ft	2.1	5	2
36	2	ft	2.1	5	2
37	2	ft	2.1	5	2
38	2	ft	2.1	5	2
39	2	ft	2.1	5	2
40	2	ft	2.1	5	2
41	2	ft	2.1	5	2
42	2	ft	2.1	5	2
43	2	ft	2.1	5	2
44	2	ft	2.1	5	2
45	2	ft	2.1	5	2
46	2	ft	2.1	5	2
47	2	ft	2.1	5	2
48	2	ft	2.1	5	2
49	2	ft	2.1	5	2
50	2	ft	2.1	5	2

PROJECT NO. 8.1396  
 ROSSON CUMBERLAND COUNTY  
 STATION 712+10.53

STATE HIGHWAY COMMISSION

STANDARD  
 I-BEAM SUPERSTRUCTURE  
 WITH R.C. FLOOR & RAIL  
 ONE @ 80.0 SPAN  
 28 ROADWAY 21" LL L.M. SKEN  
 MAY 1957



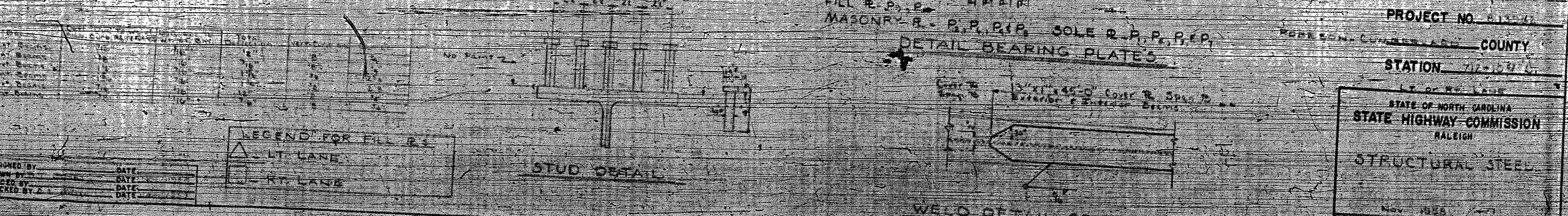
**BEARING PLATES REQUIRED:**

0 - P-6 1/2" x 11" as detailed	4 - P-6 1/2" x 11" as detailed
0 - P-6 1/2" x 11" as detailed	4 - P-6 1/2" x 11" as detailed
0 - P-6 1/2" x 11" as detailed	4 - P-6 1/2" x 11" as detailed
0 - P-6 1/2" x 11" as detailed	4 - P-6 1/2" x 11" as detailed

**FILL PLATES:**

LT. LANE	RT. LANE	FILL PLATE P-6	RT. LANE
2 - 8" x 11" x 1/2"	1 - 8" x 11" x 1/2"	2 - 8" x 11" x 1/2"	2 - 8" x 11" x 1/2"
0 - 8" x 11" x 1/2"	0 - 8" x 11" x 1/2"	0 - 8" x 11" x 1/2"	0 - 8" x 11" x 1/2"
1 - 8" x 11" x 1/2"	1 - 8" x 11" x 1/2"	1 - 8" x 11" x 1/2"	1 - 8" x 11" x 1/2"
1 - 8" x 11" x 1/2"	1 - 8" x 11" x 1/2"	1 - 8" x 11" x 1/2"	1 - 8" x 11" x 1/2"
0 - 8" x 11" x 1/2"	0 - 8" x 11" x 1/2"	0 - 8" x 11" x 1/2"	0 - 8" x 11" x 1/2"

Fill plates may be combined with masonry as shown.



DESIGNED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT NO. 5136  
 COUNTY: \_\_\_\_\_  
 STATION: 112+10.00

STATE OF NORTH CAROLINA  
 STATE HIGHWAY-COMMISSION  
 RALEIGH

STRUCTURAL STEEL

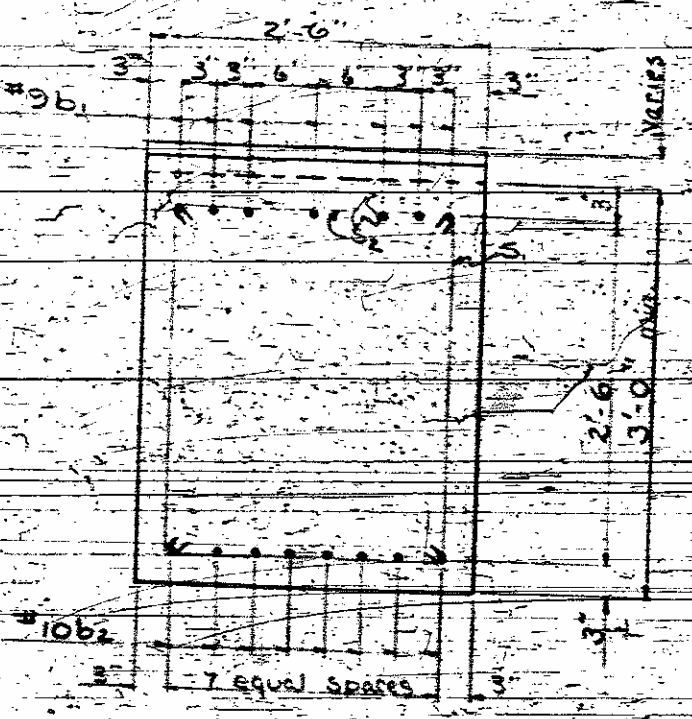
Nov. 1955

NO.	BY	DATE	NO.	BY	DATE
1			2		

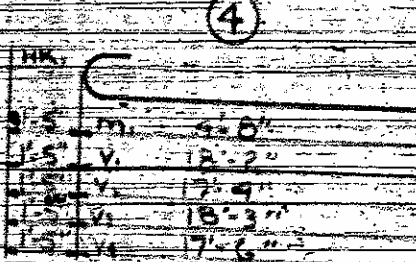
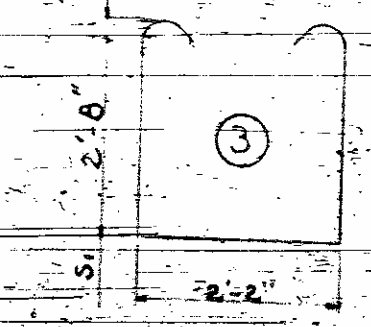
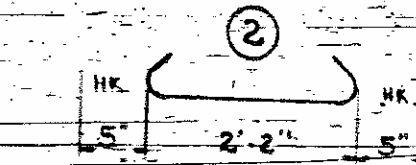
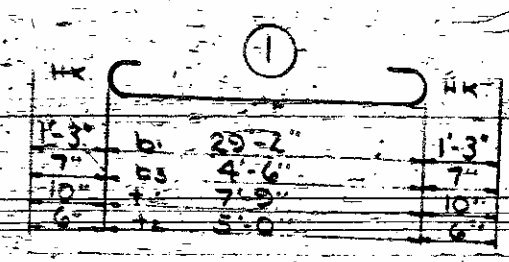




PLAN



SECTION THRU CAP



BAR TYPES

Bar Dimensions are Out to Out.

**BILL OF MATERIAL**  
FOR ONE BENT ONLY  
FOUR REQUIRED

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#9	1	31'-8"	75
b2	#10	gir	29'-2"	100
b3	#5	1	5'-8"	7
m	#10	4	8'-1"	41
s1	#5	3	8'-4"	37
s2	#5	2	3'-0"	14
t1	#7	1	9'-5"	42
t2	#4	1	6'-0"	64

Bar	Qty	Weight
BT #1, Lt Lane	4	19.7
BT #2, Lt Lane	4	18.9
BT #1, Rt Lane	4	19.8
BT #2, Rt Lane	4	18.1

Reinforcing Steel	Qty	Weight
Class 'A' Concrete		
BT #1, Lt Lane	4	19.7
BT #2, Lt Lane	4	18.9
BT #1, Rt Lane	4	19.8
BT #2, Rt Lane	4	18.1

12" Prestressed Concrete Piles	Qty	Weight
Bent #1, Lt Lane	1	12.5
Bent #1, Rt Lane	1	12.5
Bent #2, Lt Lane	1	12.5
Bent #2, Rt Lane	1	12.5

\* Concrete displaced by piles has been deducted.

PROJECT NO. 8113962

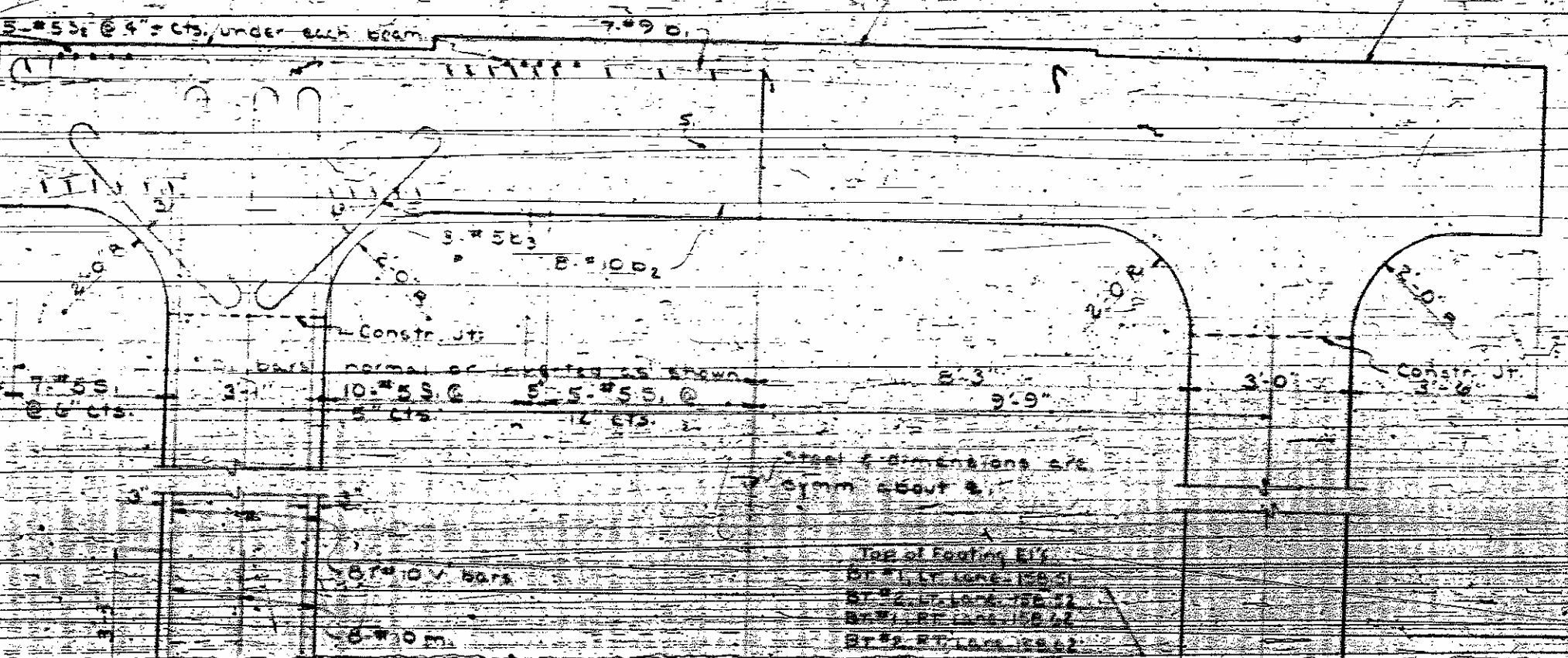
ROBESON-CUMBERLAND COUNTY

STATION: 712+10.53

STATE OF NORTH CAROLINA  
STATE HIGHWAY COMMISSION

INTERIOR BENT NO. 1 & 2  
LEFT & RIGHT LANE

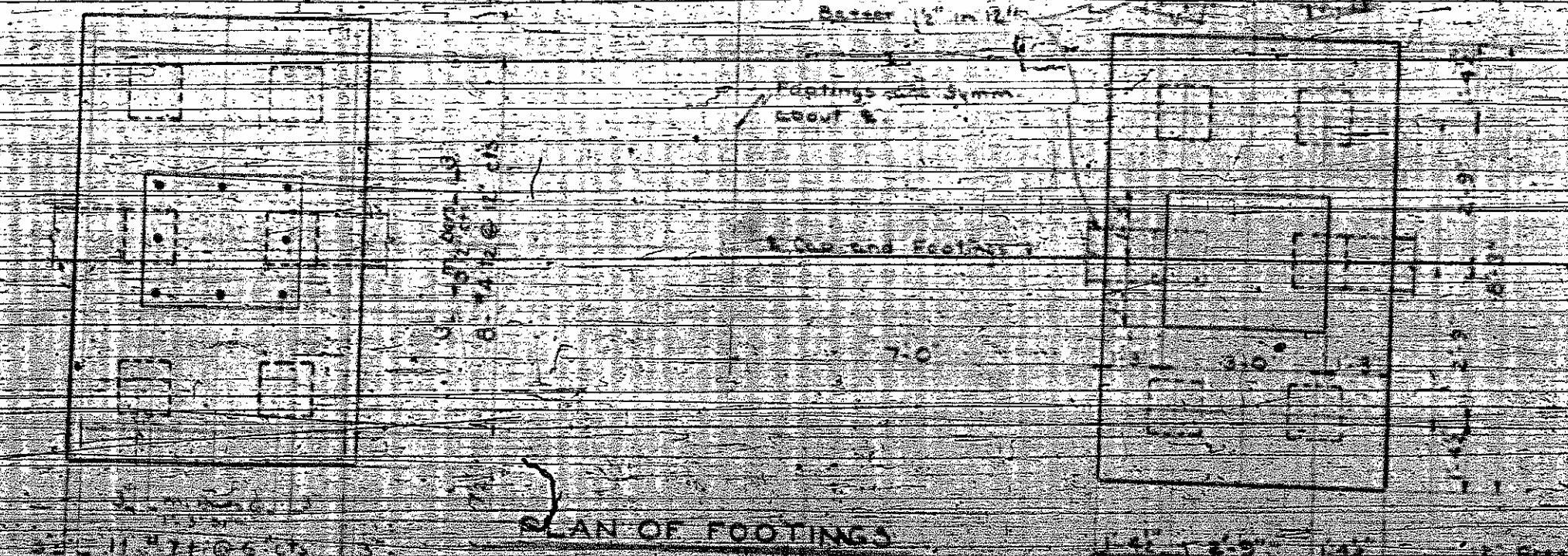
DES. 1391



ELEVATION



END VIEW OF BENT



PLAN OF FOOTINGS

REVISION	DATE	BY	CHK
1	1-25-51	N.C.	1391