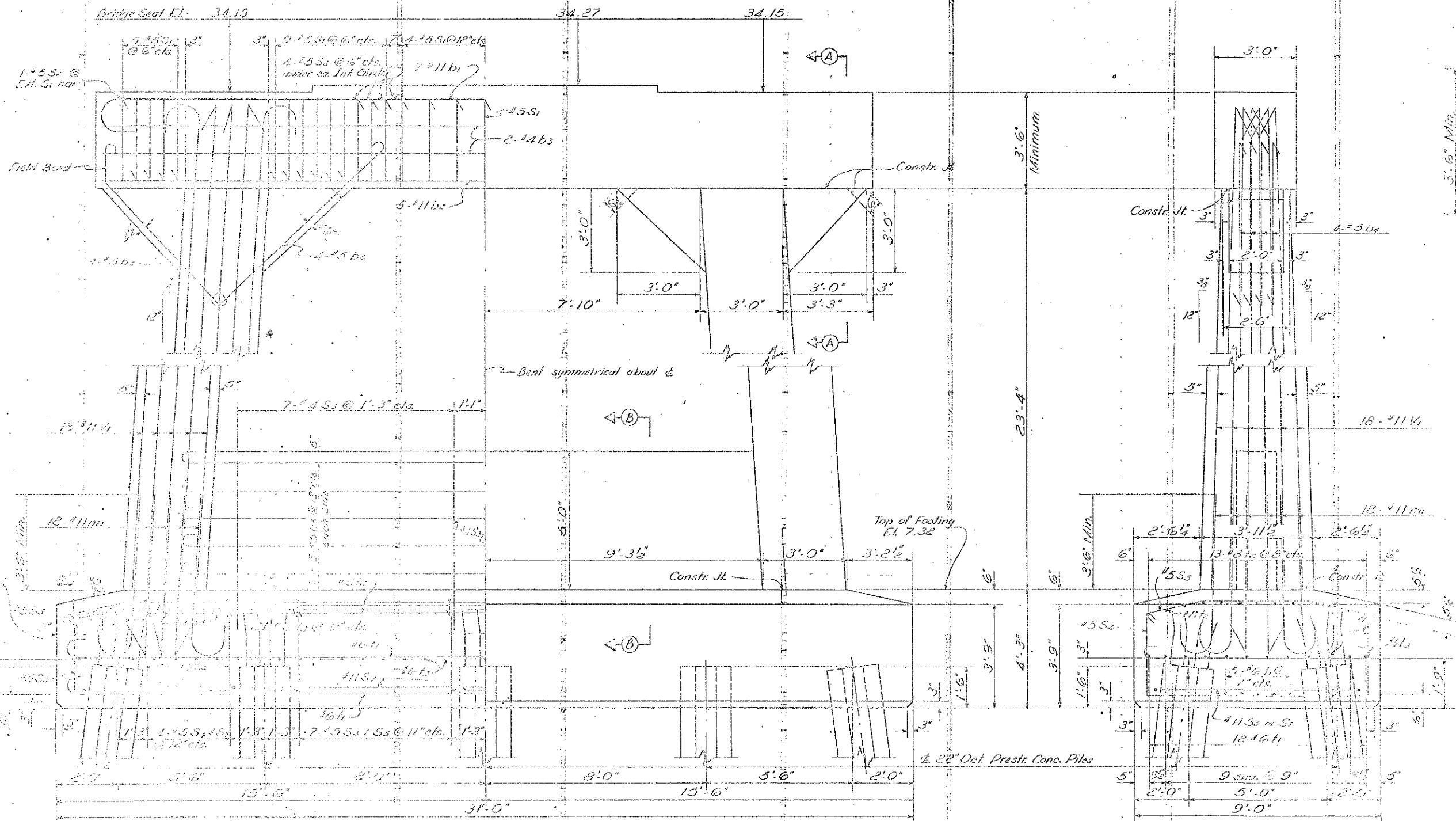
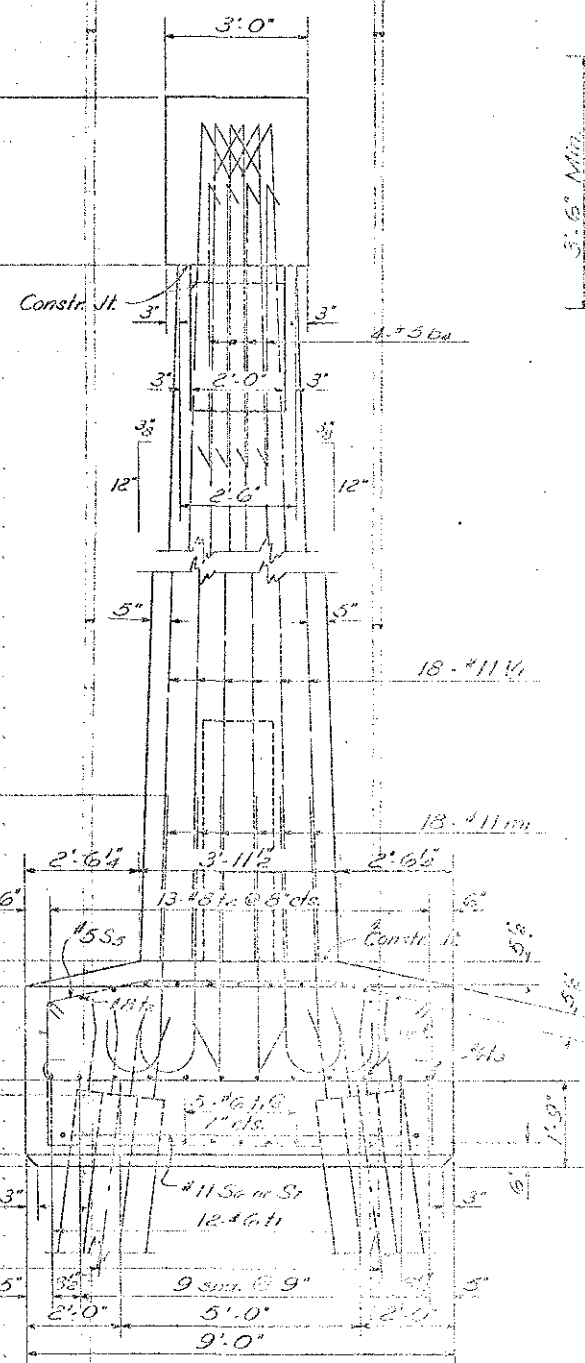


PLAN OF CAP

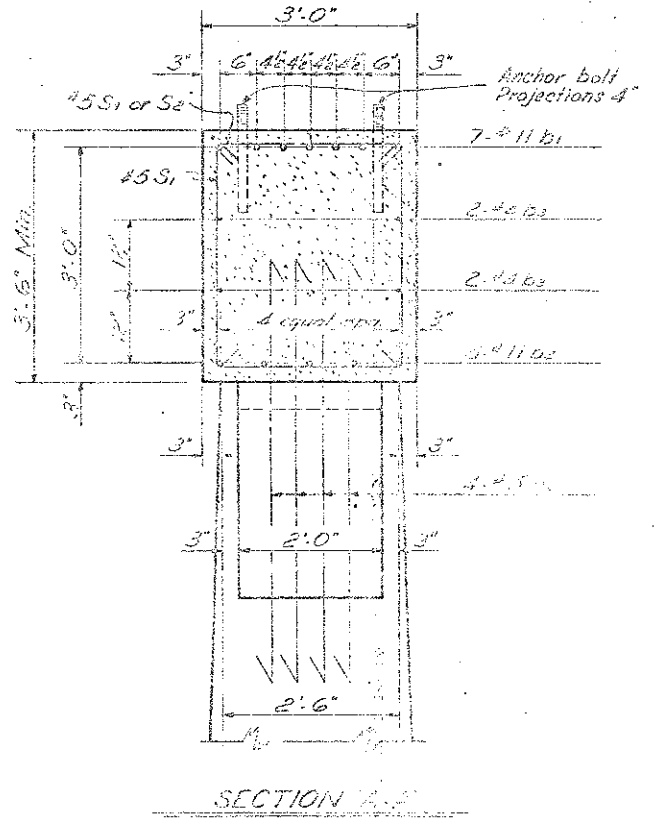
Note: Care should be taken in placing cap reinforcing to clear anchor bolts



ELEVATION



END ELEVATION



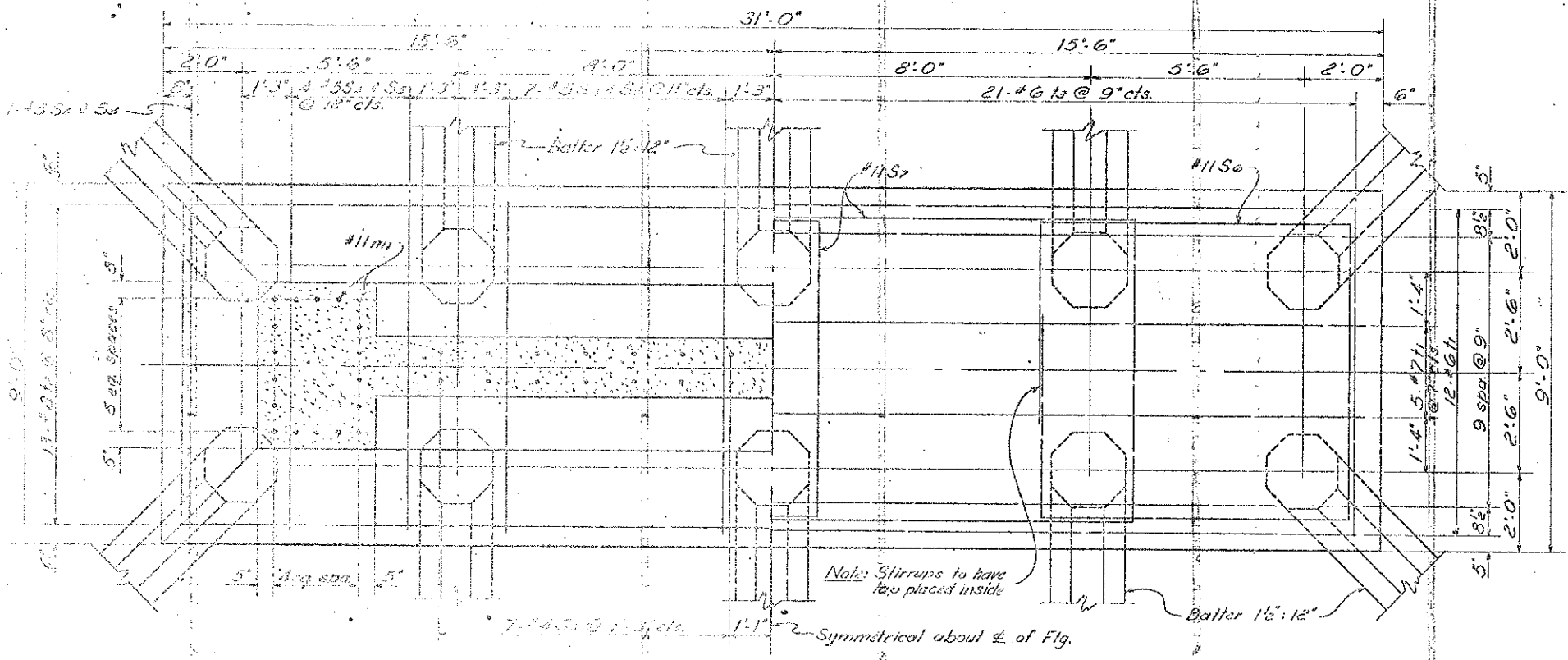
SECTION A-A

PROJECT NO. 8,21305
 DAPE COUNTY
 STATION: 116+25
 Sheet No. 1

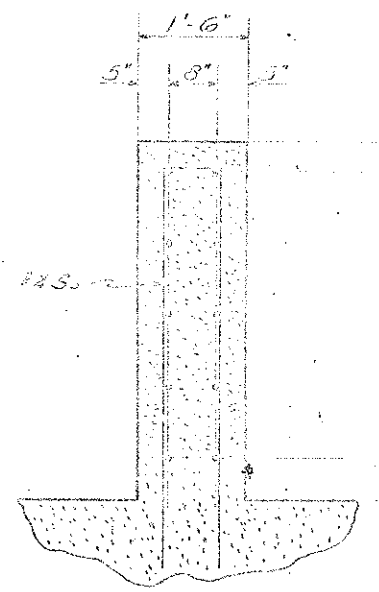
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BENT Nos. 129 & 130

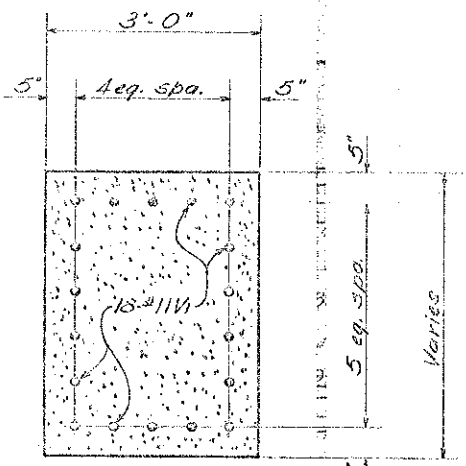
NOV 1953



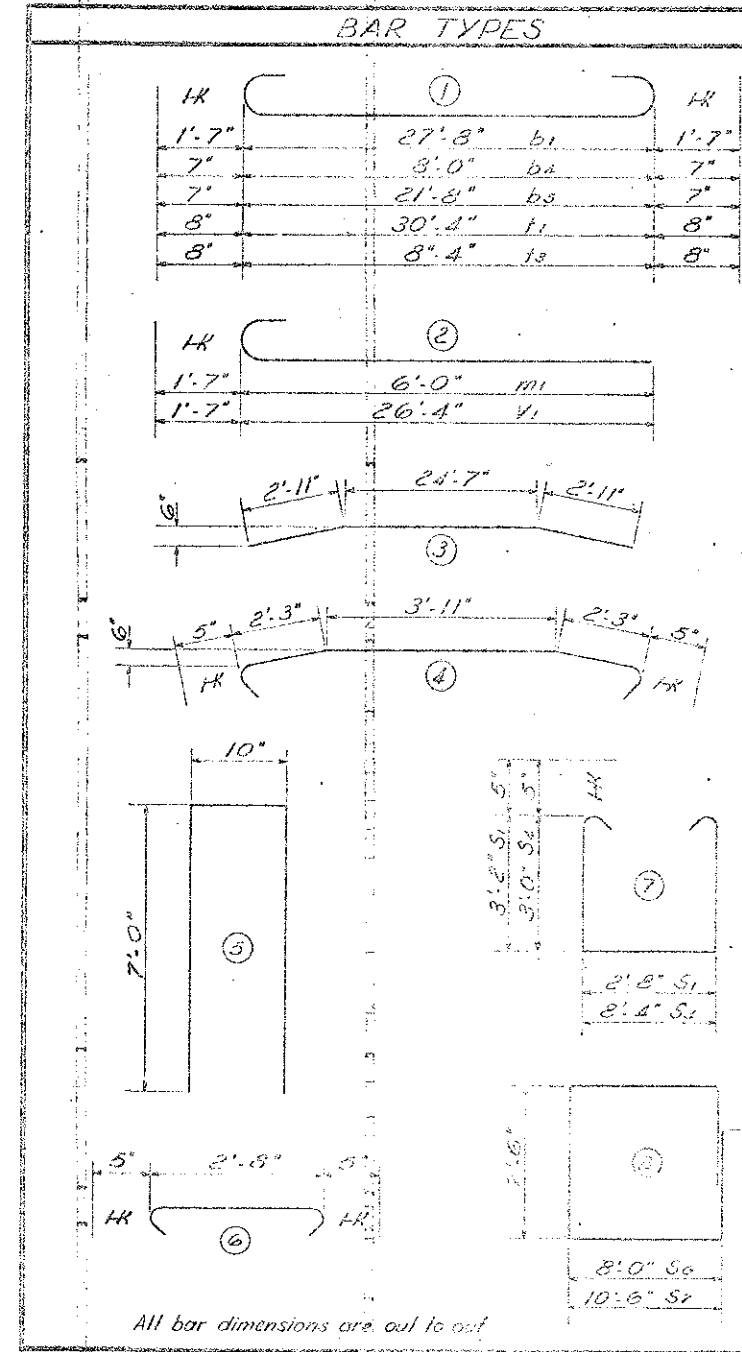
STEEL IN TOP OF FOOTING PLAN OF FOOTING STEEL IN BOTTOM OF FOOTING



SECTION "B-B"



SECTION THRU COLUMN



All bar dimensions are out to out

* Note: Concrete displaced by pile heads has been deducted.

Concrete Quantities each	
Pour #1 (175)	30.5
Pour #2	23.2
Pour #3	11.1
Total	74.3

BILL OF MATERIAL FOR ONE BENT-2 REEDS

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	7	#11	1	30'-10"	1147
b2	3	#11	Str	27'-8"	735
b3	4	#4	Str	27'-8"	77
b4	16	#5	1	9'-2"	155
b5	10	#5	1	22'-10"	238
m1	36	#11	2	7'-7"	1250
S1	35	#5	7	9'-10"	359
S2	10	#5	6	3'-6"	37
S3	15	#4	5	14'-10"	149
S4	24	#5	7	15'-2"	320
S5	24	#5	4	9'-2"	232
S6	2	#11	3	34'-6"	367
S7	2	#11	3	39'-6"	420
V1	17	#6	1	13'-2"	509
V2	13	#8	3	30'-5"	1058
V3	41	#6	1	9'-5"	350
V4	36	#11	2	27'-11"	521

PROJECT NO. 2.21305

DAPE COUNTY

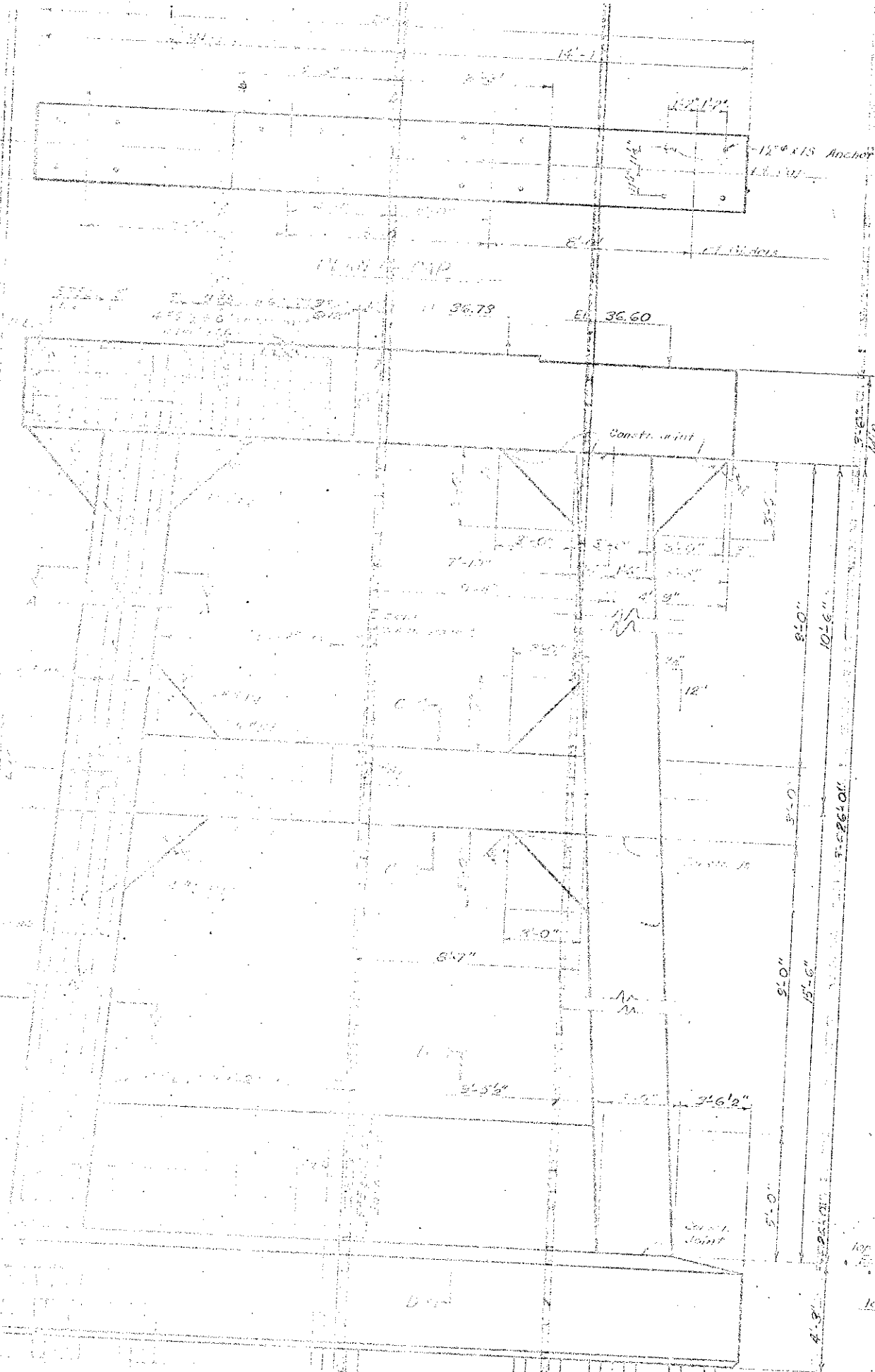
STATION: 115+25

Sheet No. 2 of 2

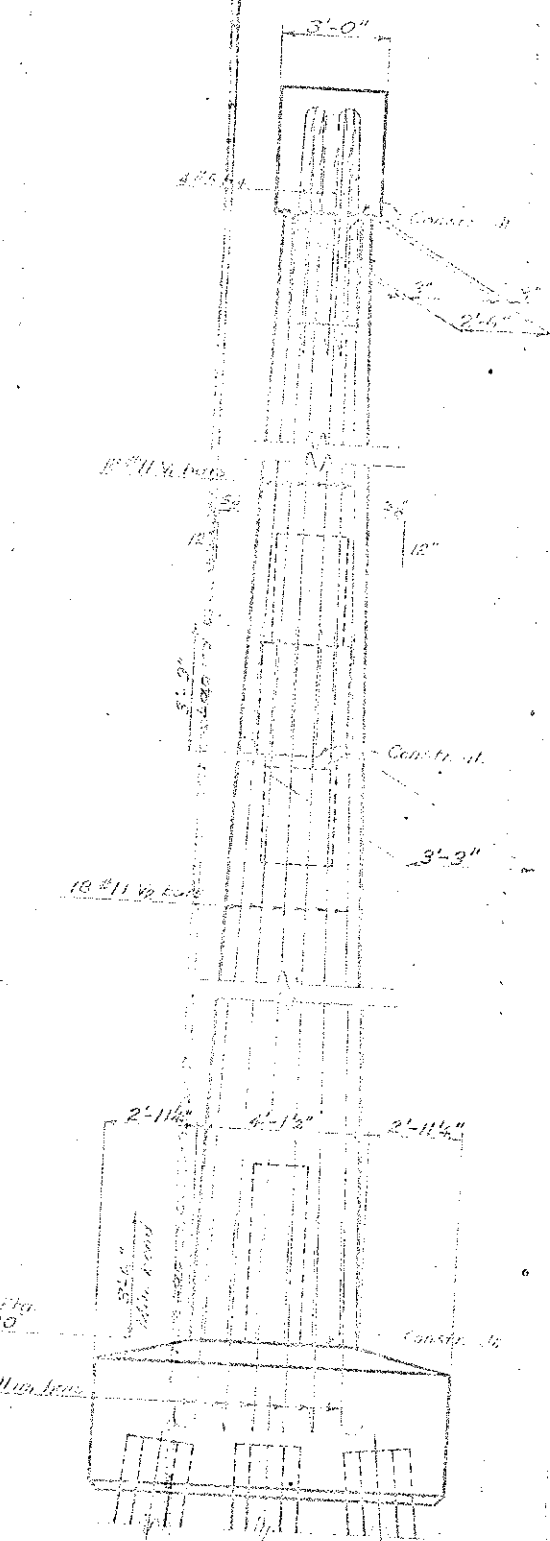
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
BENT Nos. 129 & 160

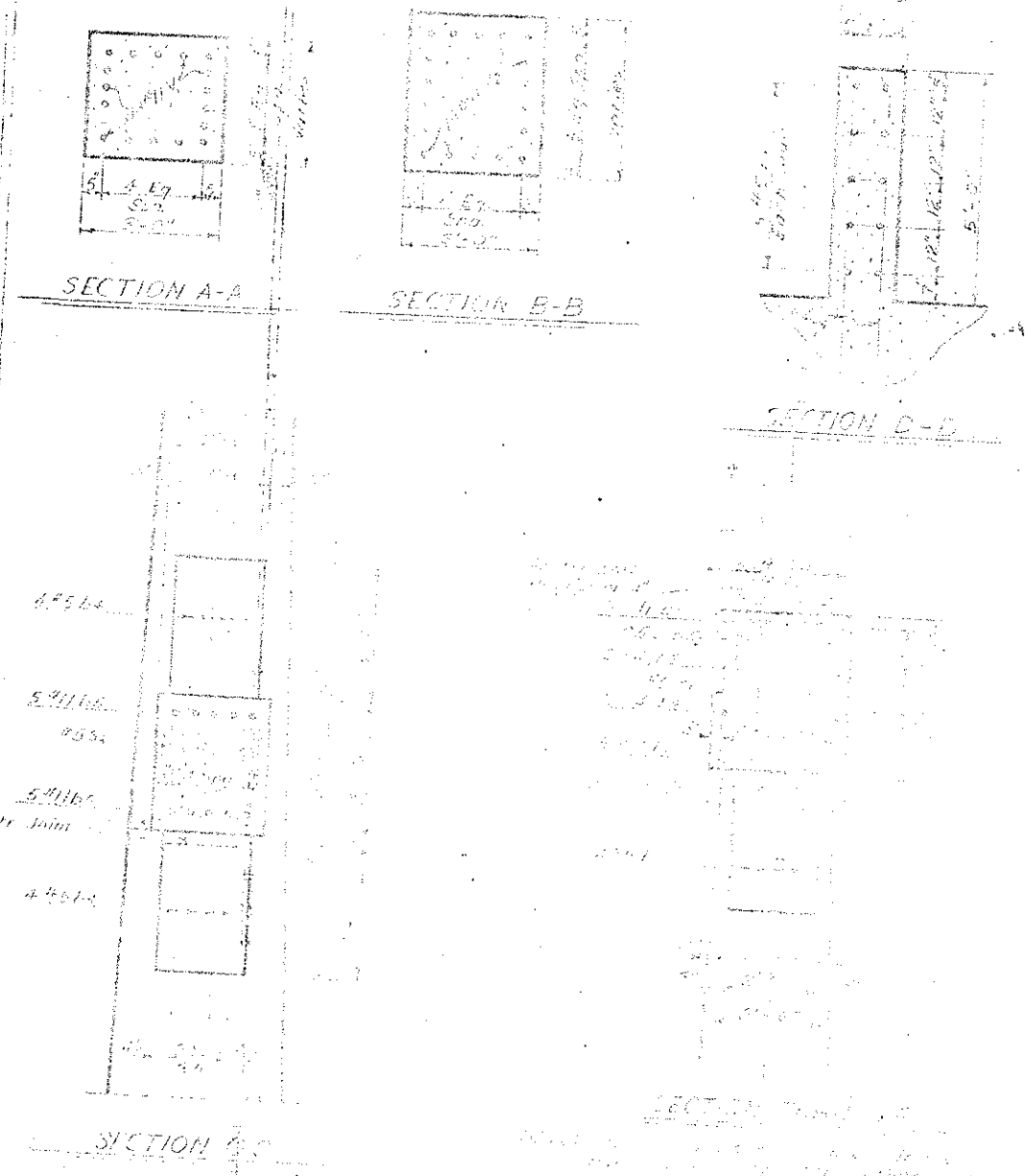
NOV 1951



ELEVATION



END ELEVATION



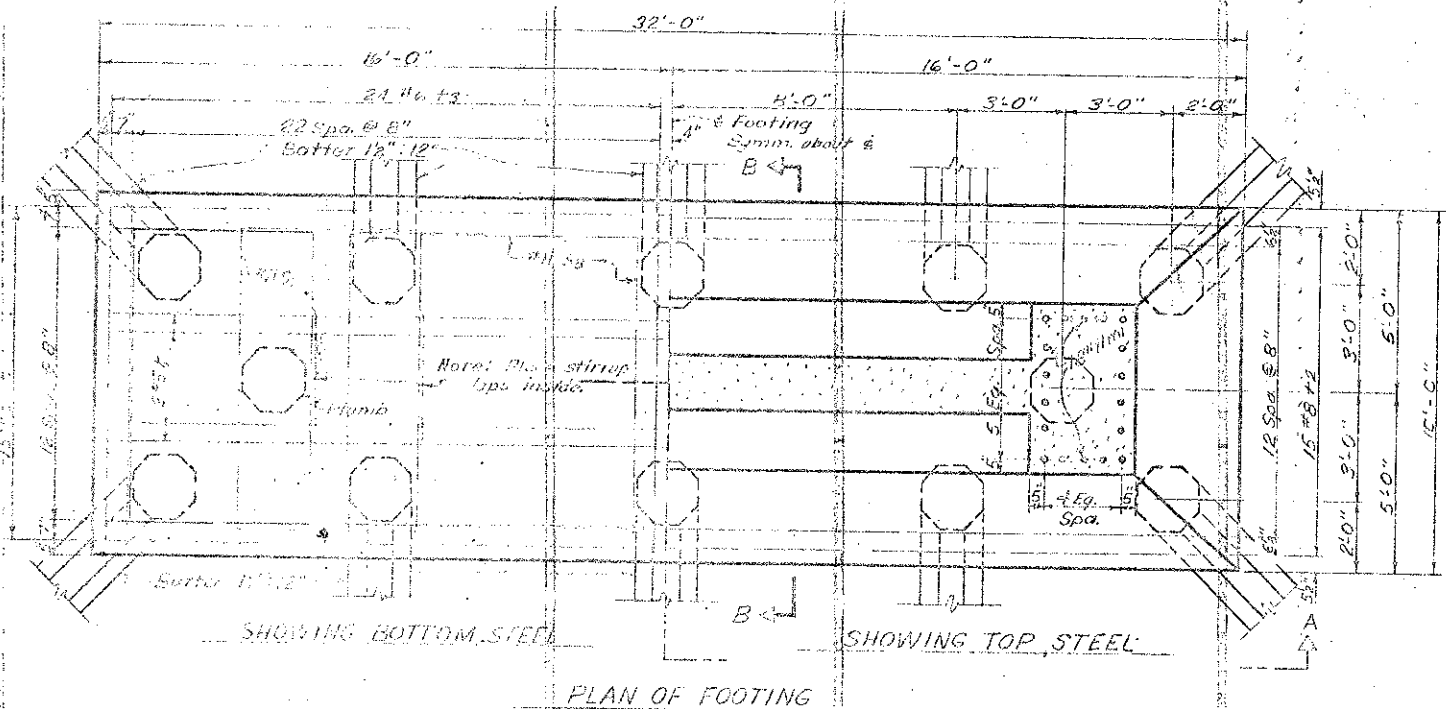
SECTION A-A

SECTION B-B

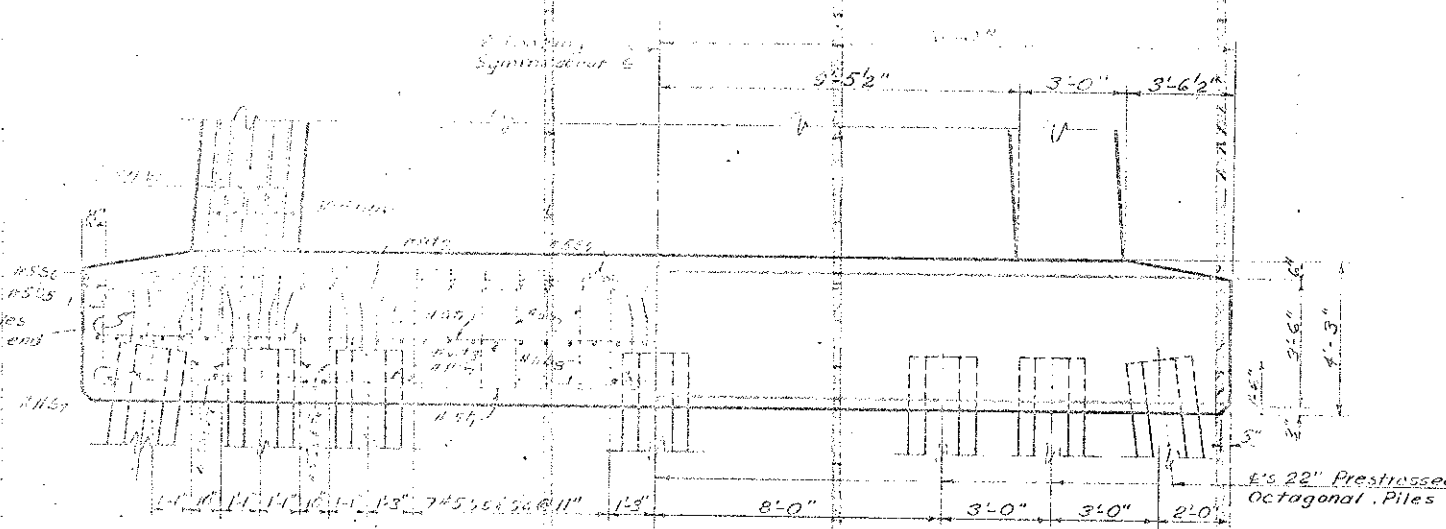
SECTION C-C

PROJECT NO. R.2130S
 DATE _____ COUNTY _____
 STATION: 16.725

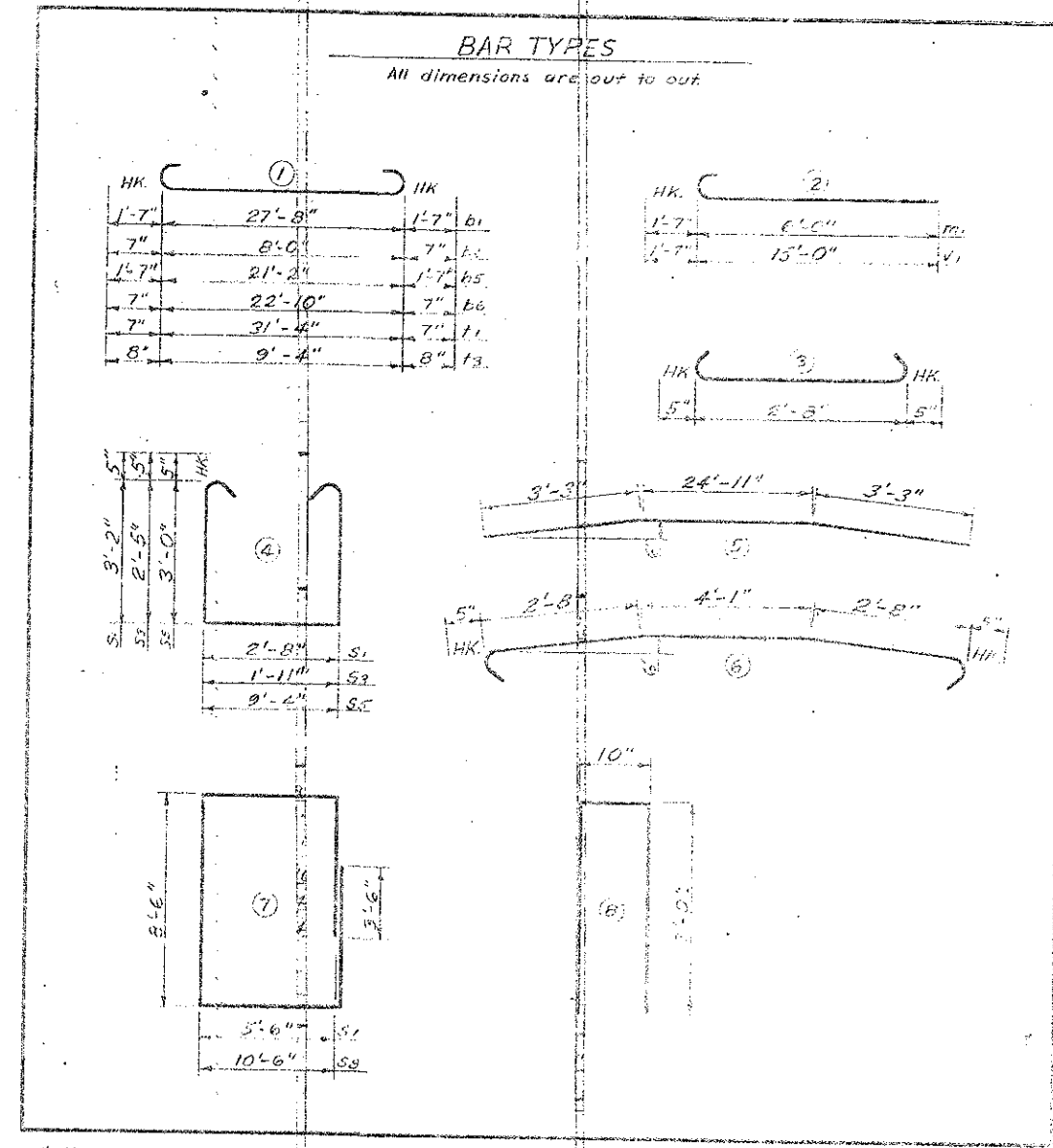
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUPERSTRUCTURE
 BEAM No. 130 or No. 139



PLAN OF FOOTING



SECTION A-A



BAR TYPES

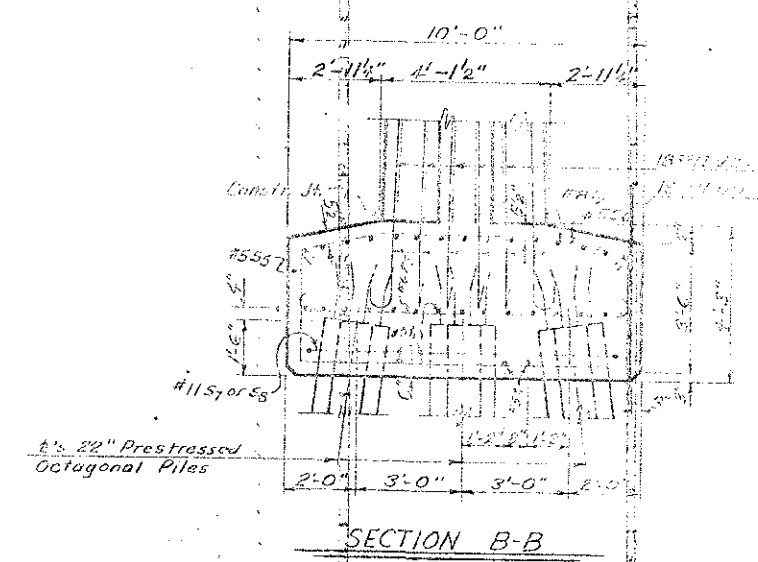
All dimensions are out to out.

BILL OF MATERIAL FOR ONE BENT-2 REQ'D.

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
61	#7	1	20'-10"	1147
62	#5	Str	27'-6"	735
63	#4	Str	27'-8"	74
64	#5	1	3'-2"	306
65	#11	1	24'-4"	1250
66	#5	1	24'-0"	250
67	#11	2	7'-7"	1452
68	#5	4	9'-10"	353
69	#5	3	3'-6"	37
70	#5	4	7'-7"	110
71	#4	8	14'-10"	151
72	#5	4	16'-2"	405
73	#5	6	10'-3"	257
74	#11	7	31'-6"	269
75	#11	7	41'-6"	271
76	#5	1	32'-8"	111
77	#8	5	31'-5"	1258
78	#8	1	10'-8"	763
79	#5	2	16'-7"	2172
80	#5	2	17'-2"	3382

Reinforcing Steel 100% 100%
 Concrete 22" x 22" Prest. Conc. Piles
 Pile #130 - No.12 - Lin #1 600
 Pile #159 - No.12 - Lin #1 780

* Note: Concrete displaced by pile heads has been deducted

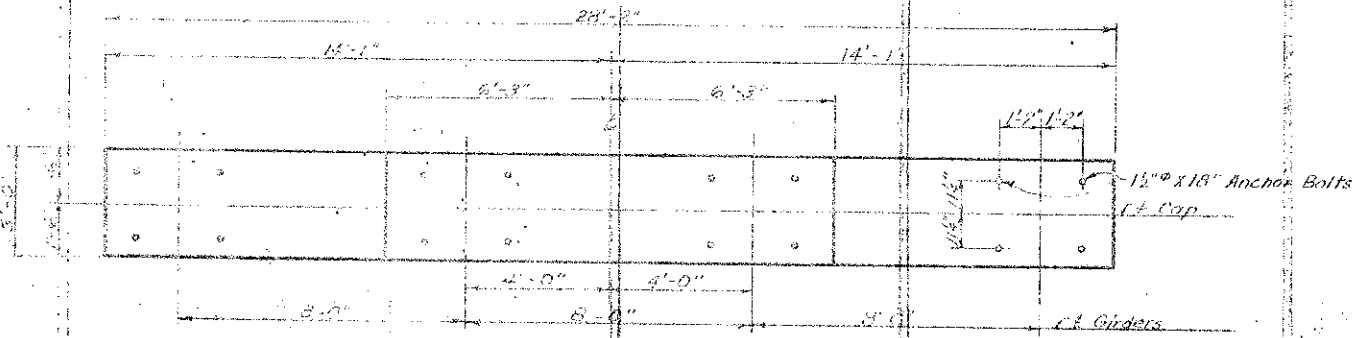


SECTION B-B

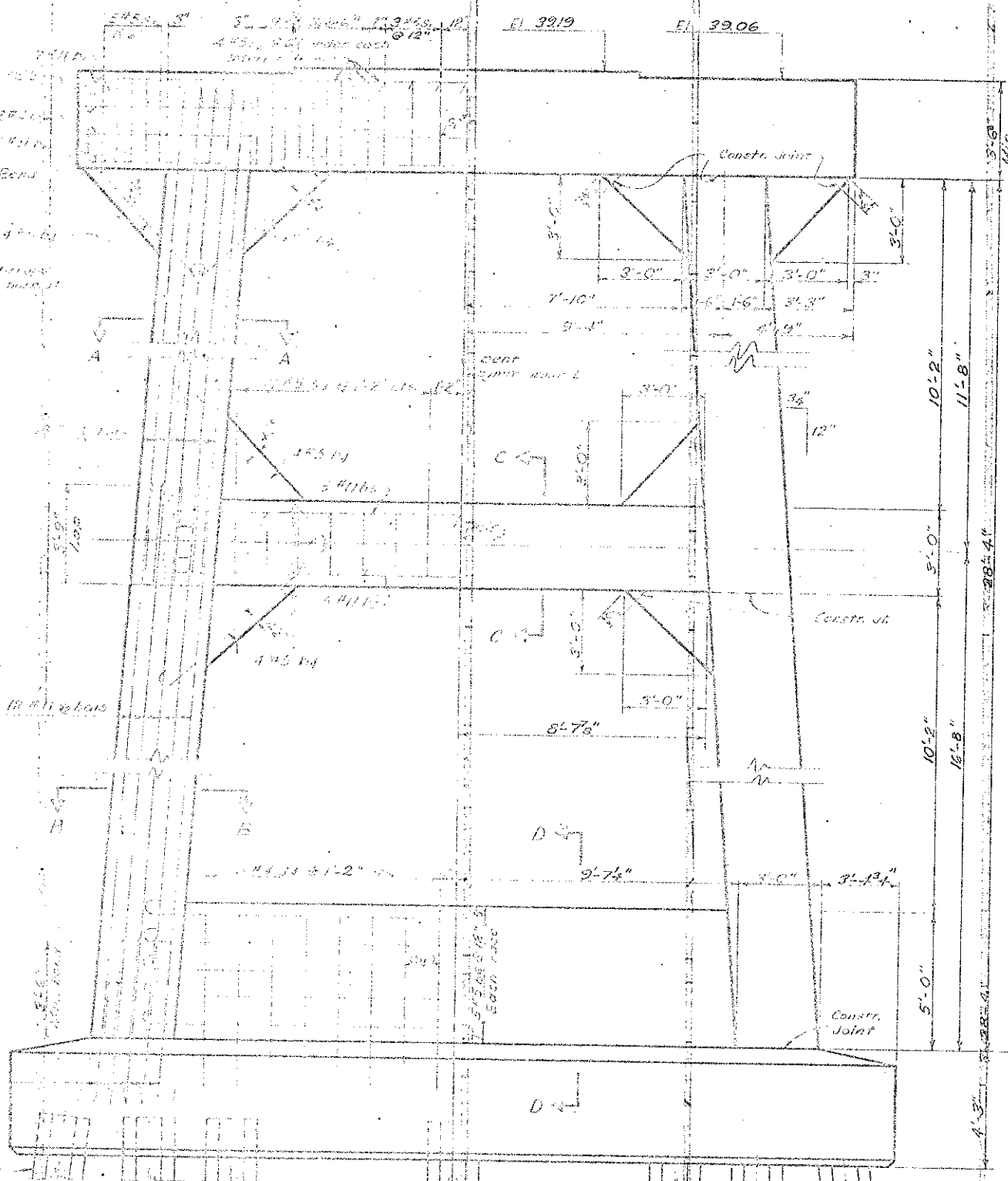
PROJECT NO. 221306
 LANE COUNTY
 STATION: 116+25

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT No.130 or No.159

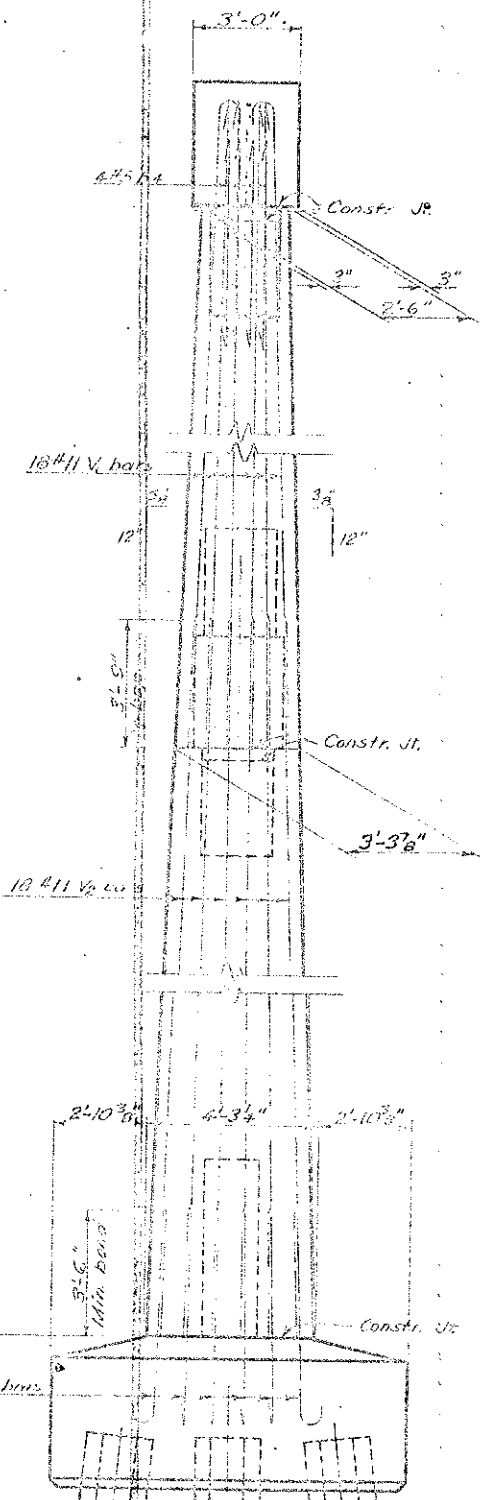
NO. ROAD REGION	STATE	PROJECT NO.
3	N.C.	8,21808
S. A. PROJECT S-1013		



PLAN OF CAP



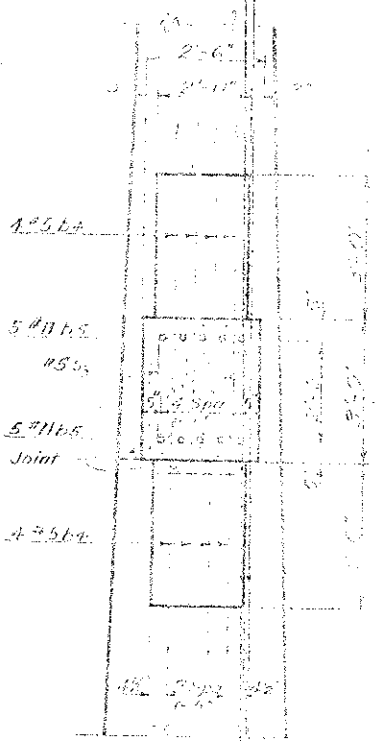
Top of Ftg. El. 7.23



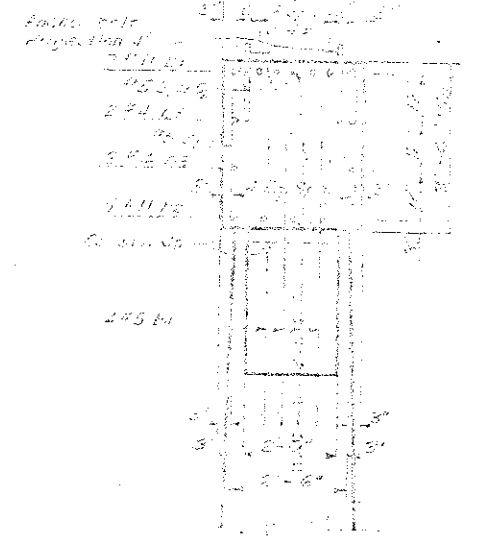
SECTION A-A

SECTION B-B

SECTION D-D



SECTION C-C



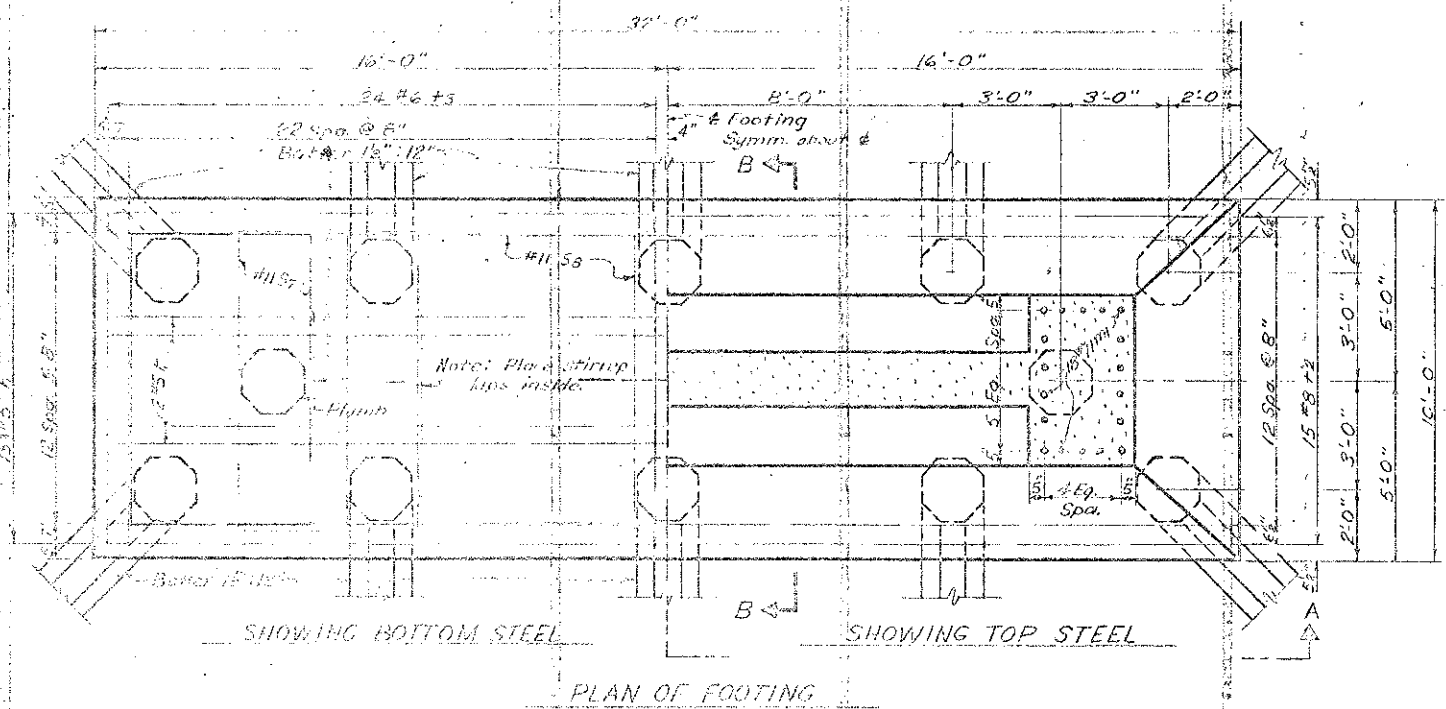
SECTION THROUGH CAP

NOTE: Bar should be bent in every 18\"/>

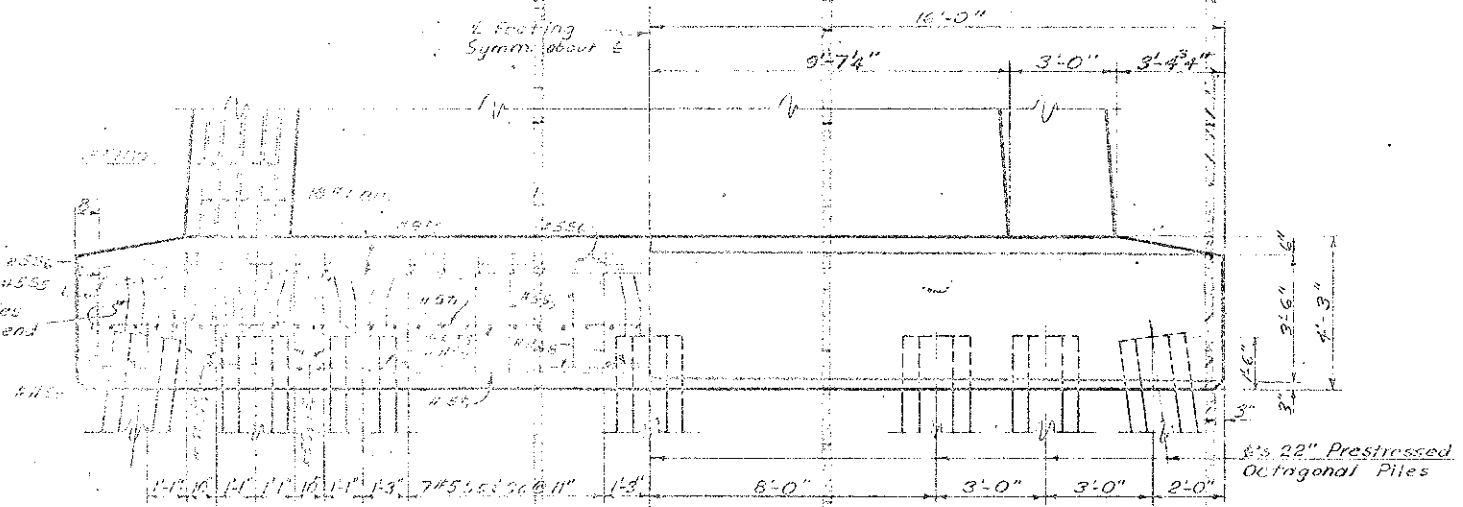
PROJECT NO. 81808
 DARE COUNTY
 STATION: 116 + 25

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT No. 131 or No. 158

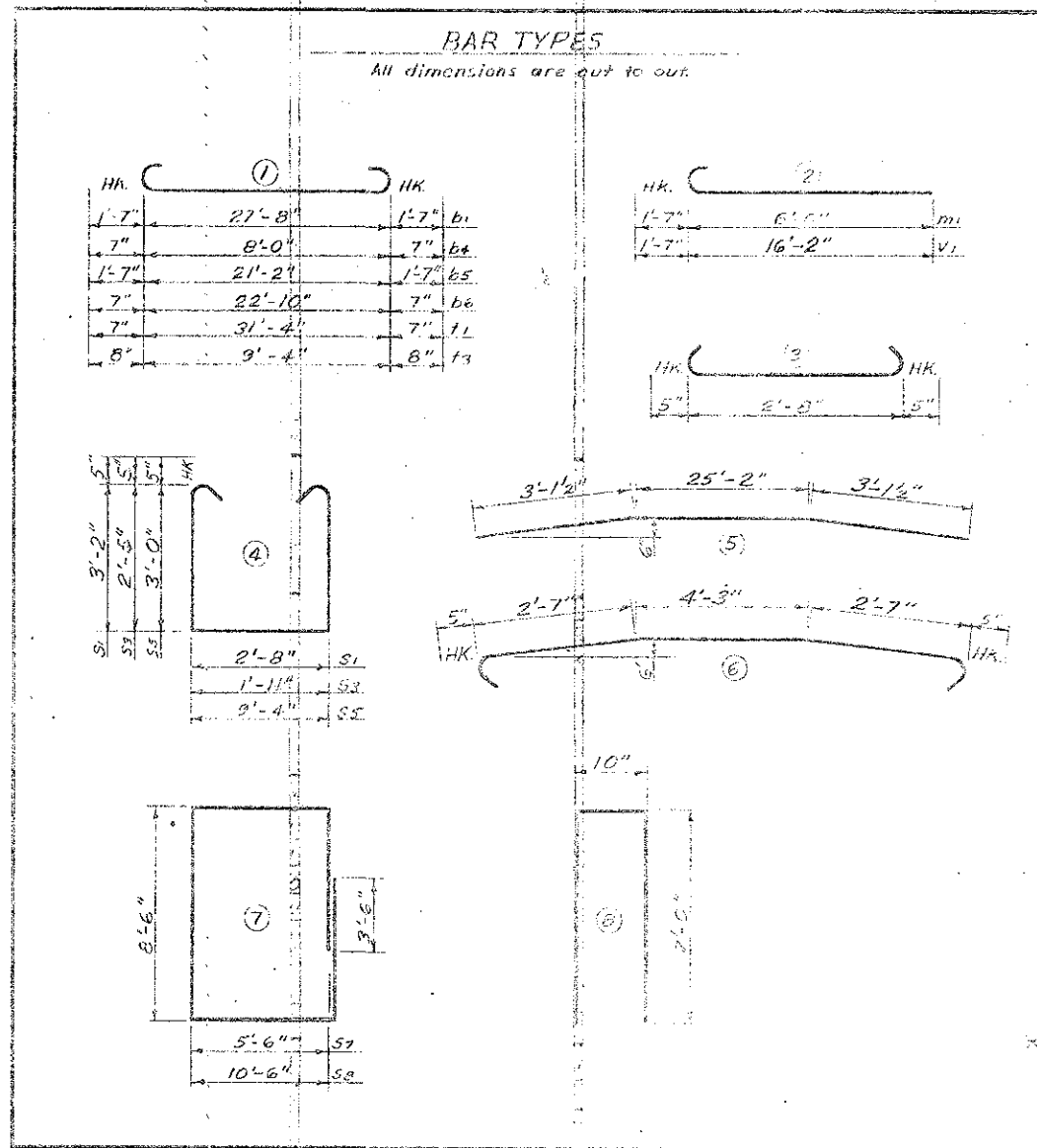
NOV 1961



PLAN OF FOOTING



SECTION A-A



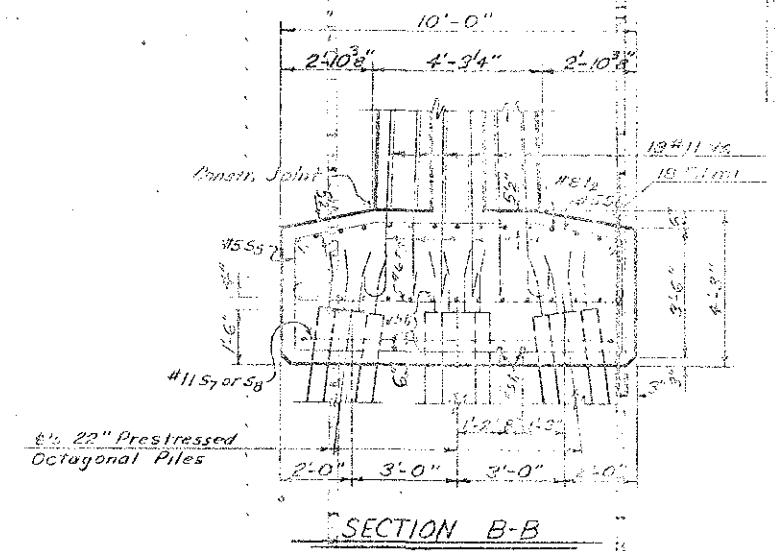
BILL OF MATERIAL FOR ONE BENT-2 REQ'D.

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	7 #11	1	30'-10"	1147
B2	5 #11	2	27'-8"	735
B3	4 #4	3	27'-8"	74
B4	2 #5	1	9'-2"	306
B5	10 #11	1	24'-4"	1223
B6	10 #5	1	24'-0"	850
m	36 #11	2	7'-7"	1250
s1	35 #5	4	9'-10"	353
s2	10 #5	3	3'-6"	37
s3	15 #5	4	7'-7"	15
s4	16 #4	3	14'-10"	133
s5	24 #5	3	16'-2"	405
s6	24 #5	6	10'-3"	257
s7	4 #11	7	31'-6"	663
s8	2 #11	7	41'-5"	441
n	15 #5	1	22'-8"	514
n	15 #5	5	31'-5"	1258
t3	25 #5	1	10'-8"	762
v	30 #11	2	17'-9"	3395
v	30 #11	3	18'-11"	3618

Reinforcing Steel - Lbs 17,355
 Class-III Concrete - Cu - 3144
 12" Oct. Prestr. Conc. Piles
 8" x 21" No.12 - Lin. Ft. 650
 8" x 18" No.12 - Lin. Ft. 760

*Note: Concrete displaced by pile heads has been deducted.

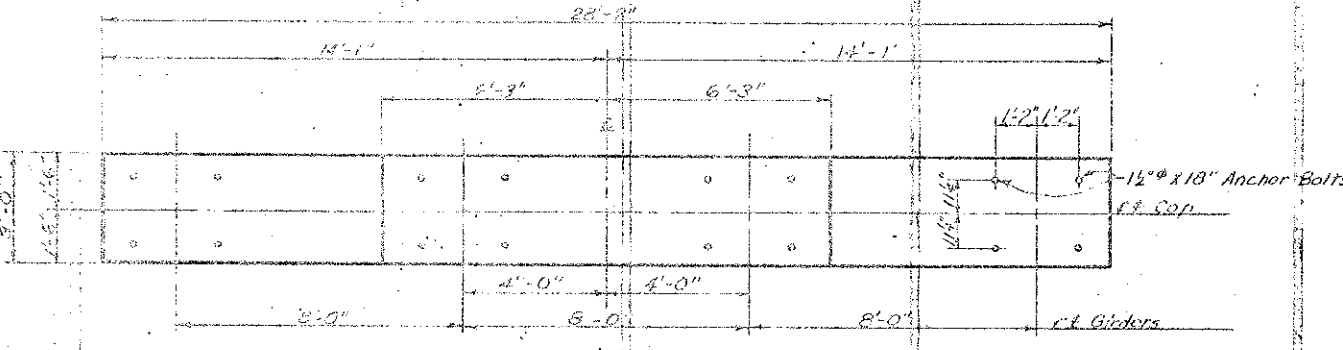
Concrete	3144
Steel	17355
Piles	1310
Total	32809



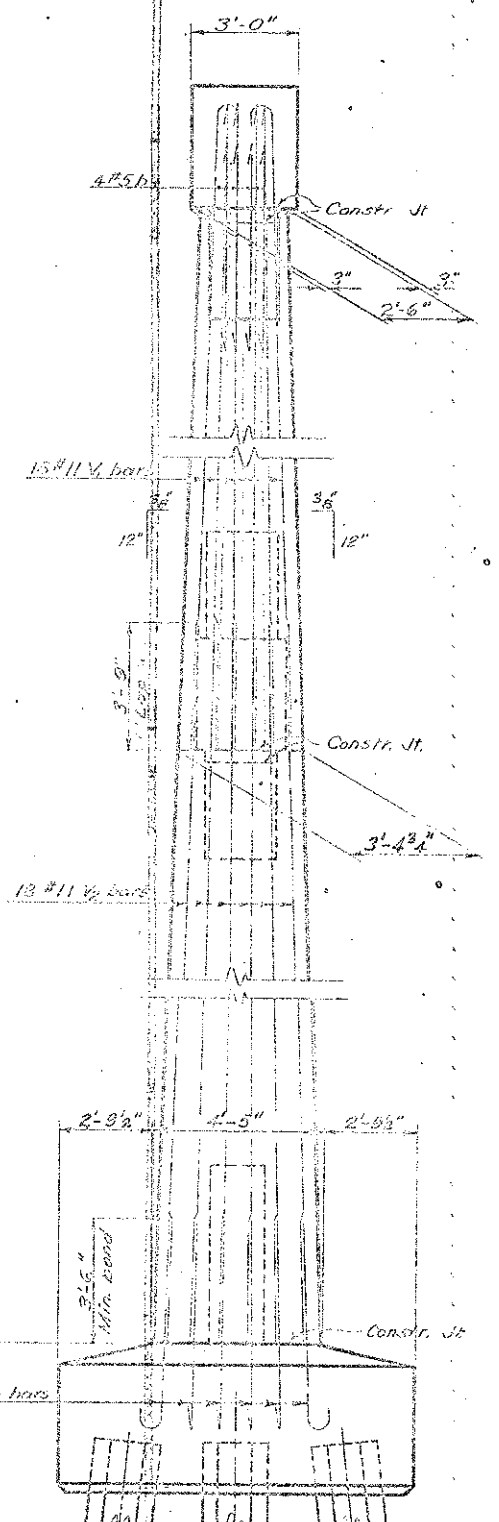
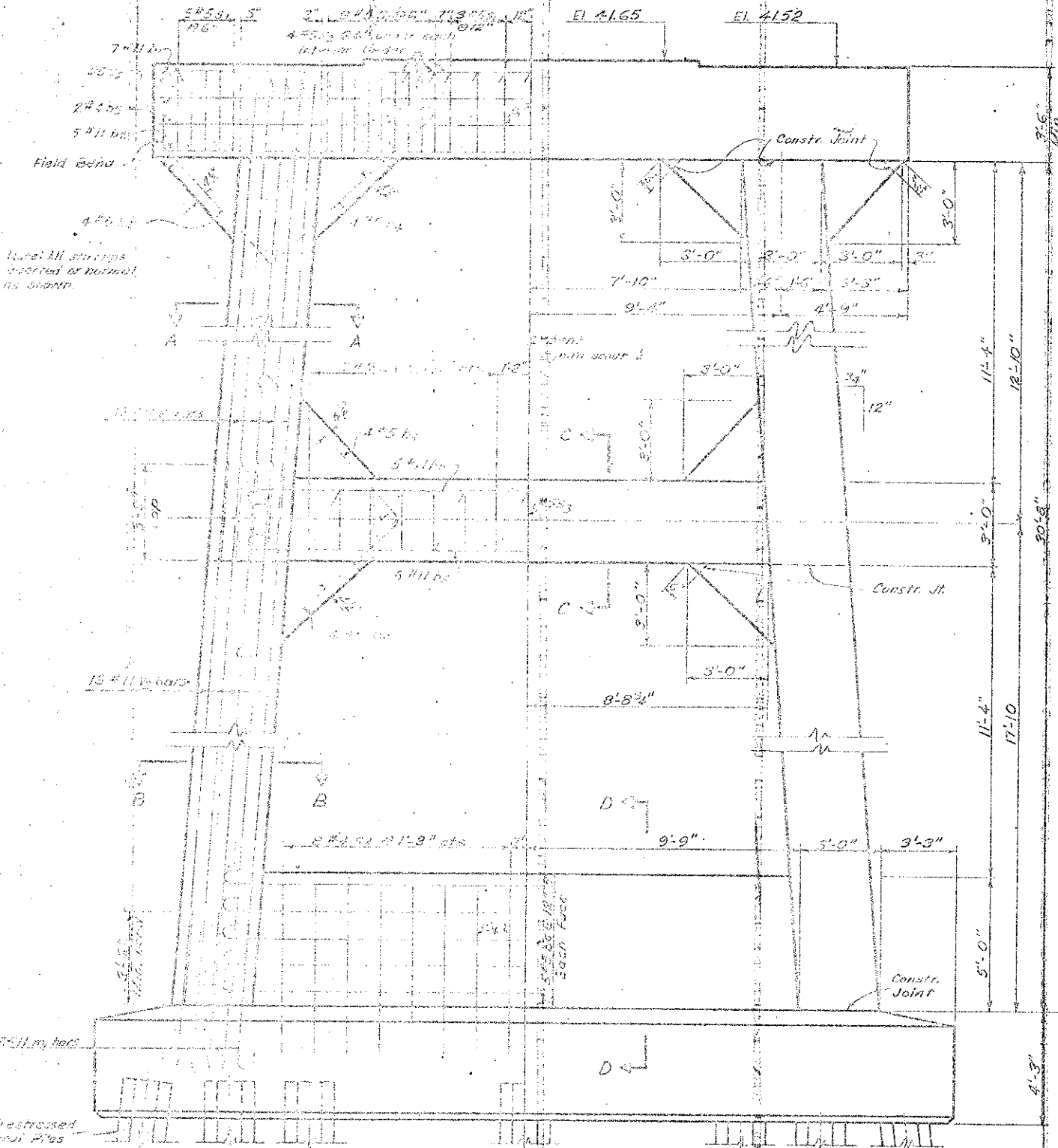
SECTION B-B

PROJECT NO. 821306
 COUNTY
 STATION 116+25

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT No. 131 or No. 158



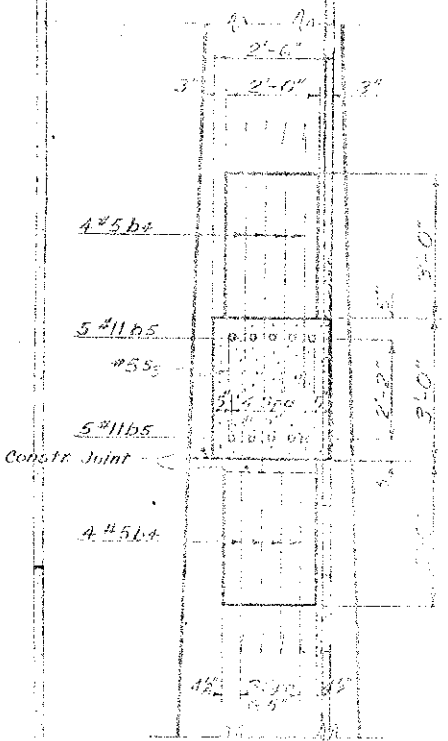
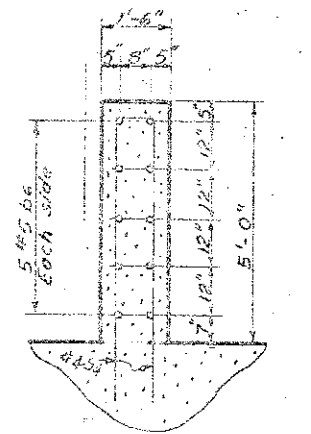
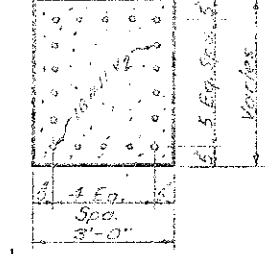
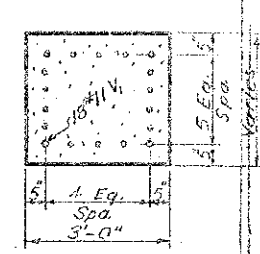
PLAN OF CAP



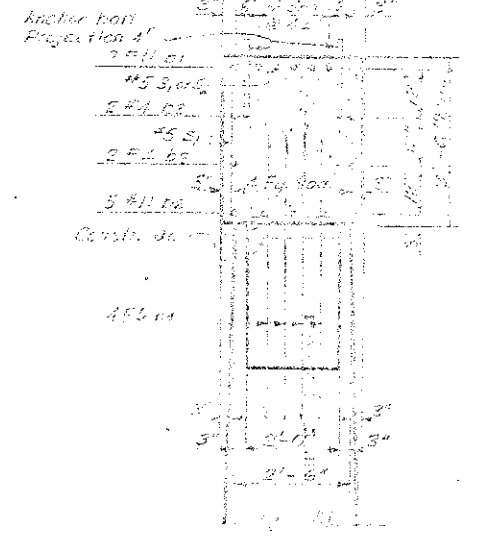
SECTION A-A

SECTION B-B

SECTION D-D



SECTION C-C



SECTION THRU CAP

NOTE: Care should be taken in placing and spacing reinforcement bars as shown.

PROJECT NO. B. 21306

DARE COUNTY

STATION: 116+25

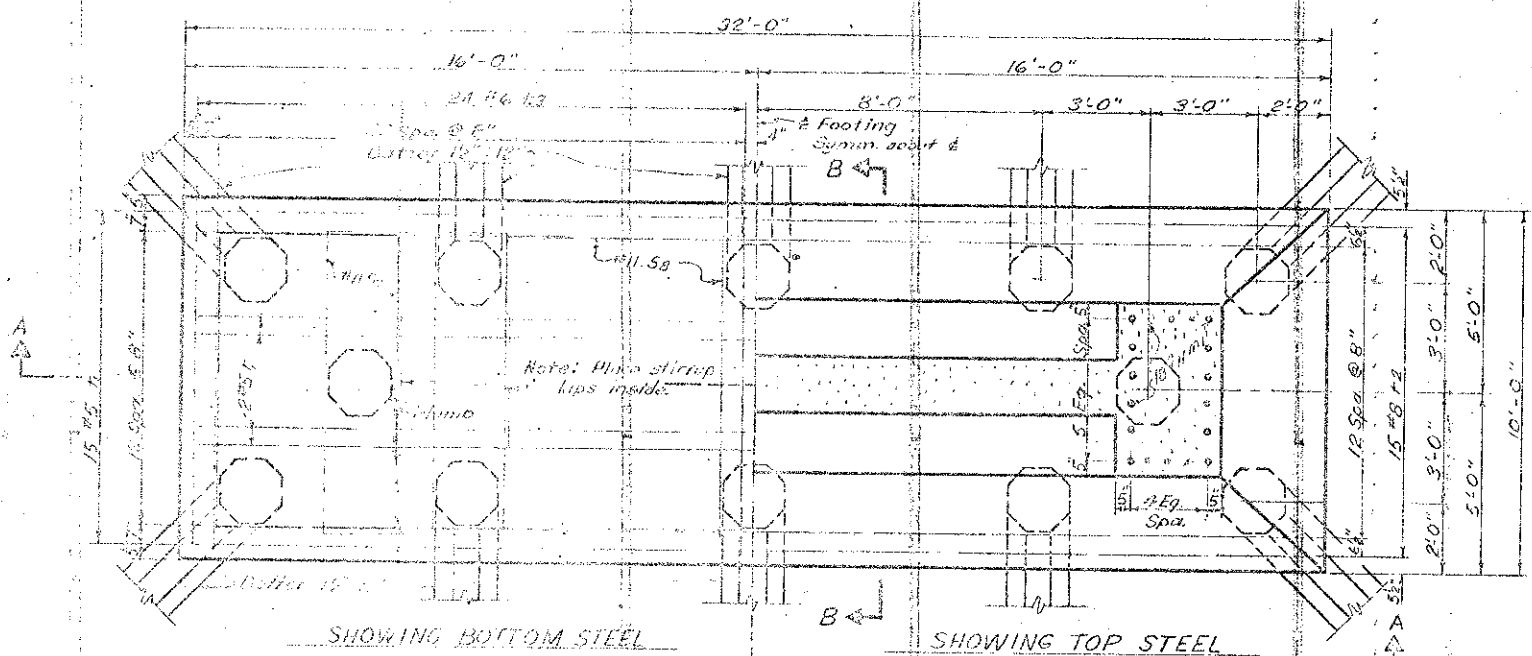
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
BENT No. 132 of No. 157

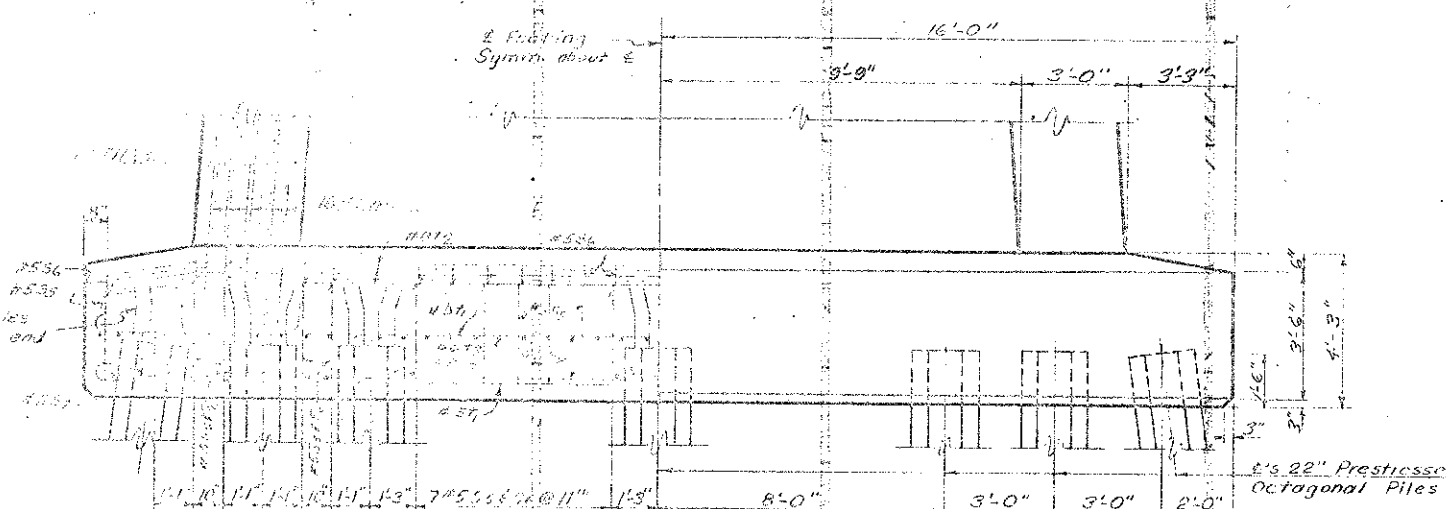
NOV

1957

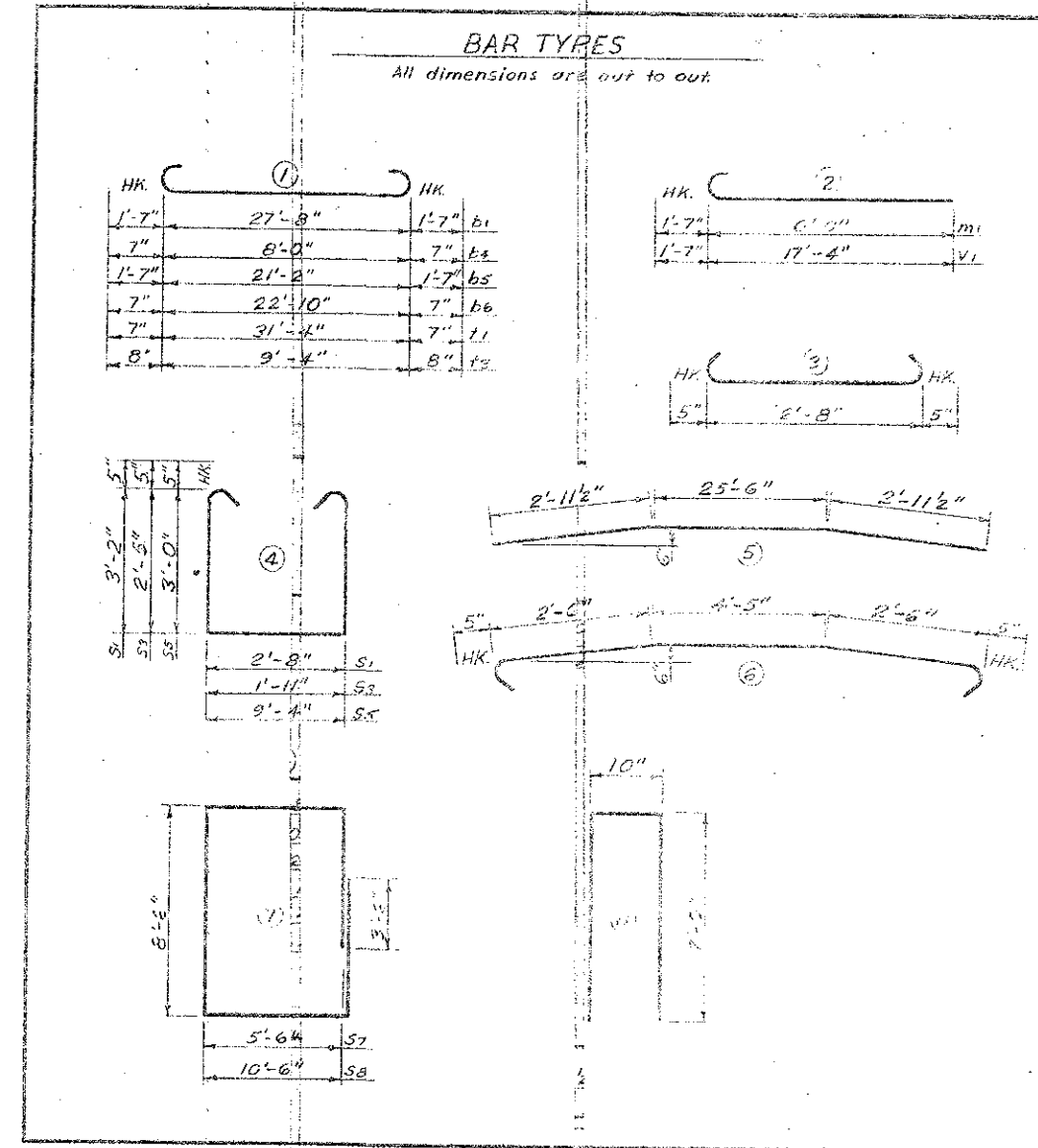
2\"/>



PLAN OF FOOTING



SECTION A-A

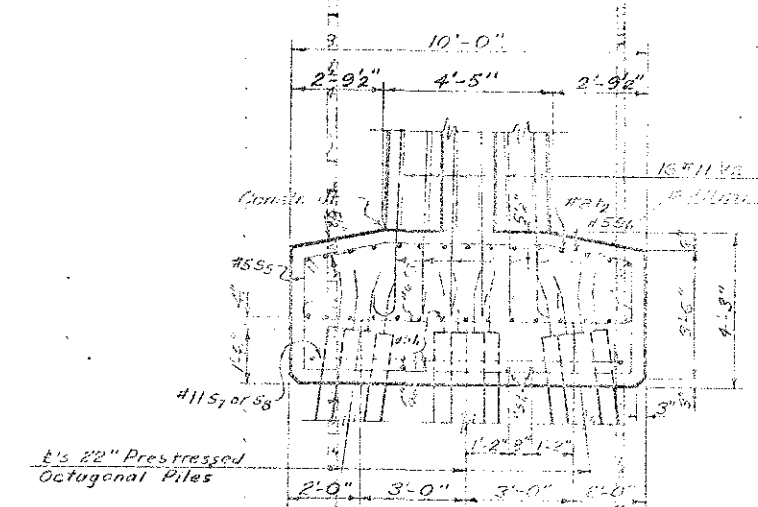


BILL OF MATERIAL FOR ONE BENT-2 REQ'D

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
b1	#7	1	30'-10"	1147	
b2	#5	#11 Str.	27'-8"	735	
b3	#4	#4 Str.	27'-8"	74	
b4	#2	#5	1	9'-2"	306
b5	#10	#11	1	28'-8"	1235
b6	#10	#5	1	24'-0"	250
m	#36	#11	2	7'-7"	1350
v1	#35	#5	4	3'-10"	253
v2	#10	#5	3	2'-6"	57
v3	#5	#5	4	7'-7"	175
v4	#16	#4	3	14'-10"	159
v5	#21	#5	4	10'-2"	401
v6	#14	#5	6	10'-3"	257
v7	#4	#11	7	3'-8"	288
v8	#7	#11	7	4'-8"	422
v9	#10	#5	1	3'-0"	54
v10	#15	#2	2	31'-5"	1252
v11	#3	#6	1	13'-5"	705
v12	#36	#11	2	15'-11"	3515
v13	#36	#11	3 Str.	20'-11"	3541

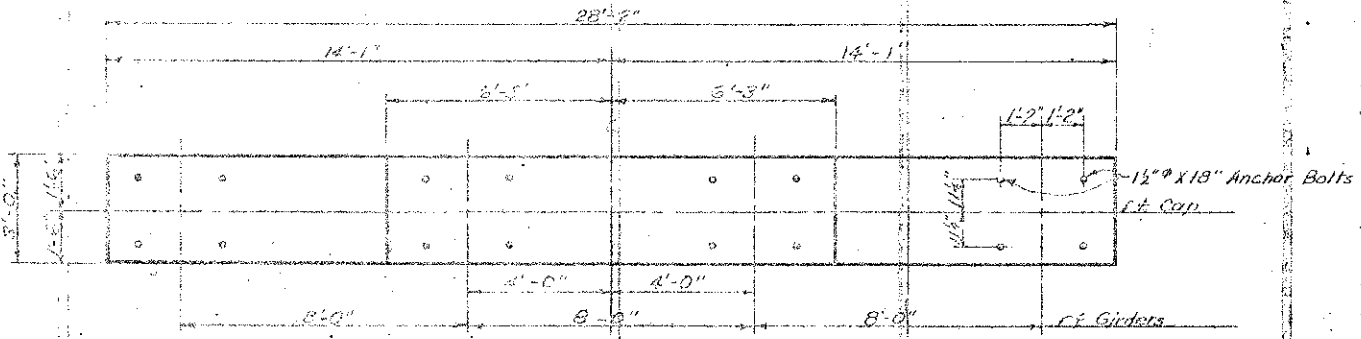
Reinforcing Steel - L65 17.5
 Class II Concrete - Comp. 3500
 22" Oct. Prest. Conc. Pile
 2's #12 - No. 12 - Lin. Ft. 600
 2's #17 - No. 12 - Lin. Ft. 780

* Note: Concrete displaced by pile heads has been deducted.

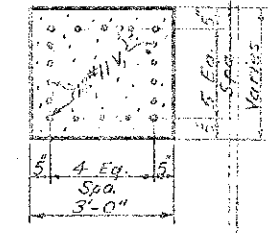
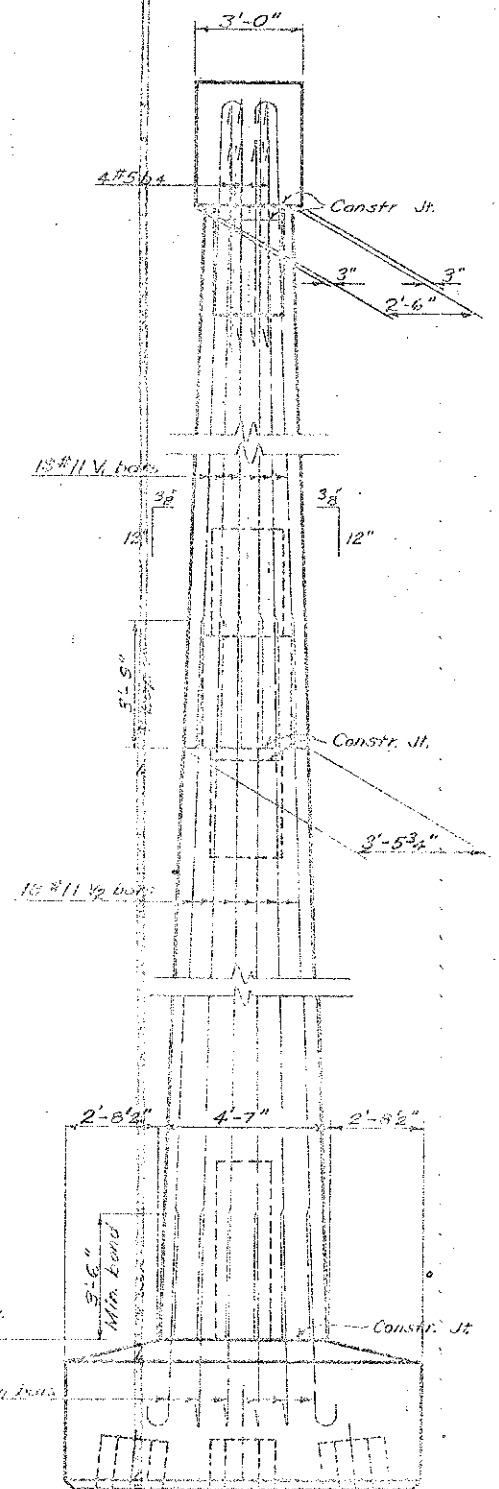
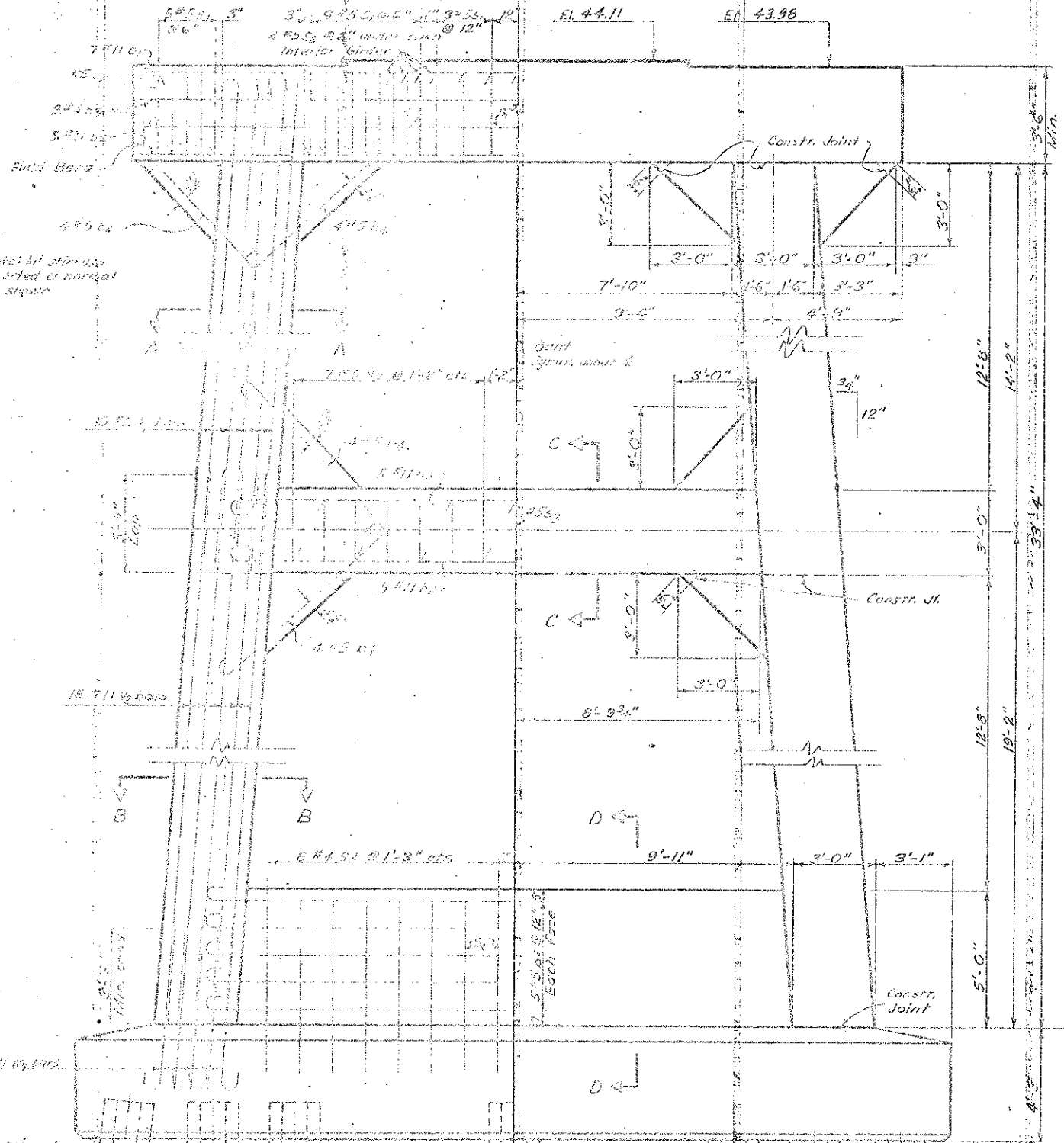


SECTION B-B

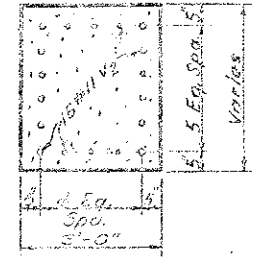
PROJECT NO. 221306
 DARE COUNTY
 STATION 116+25
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT No. 132 or No. 157



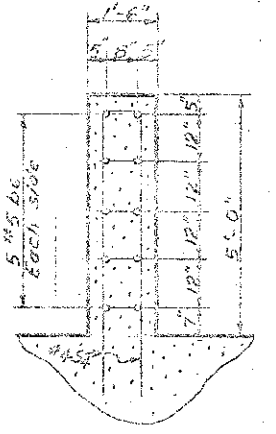
PLAN OF CAP



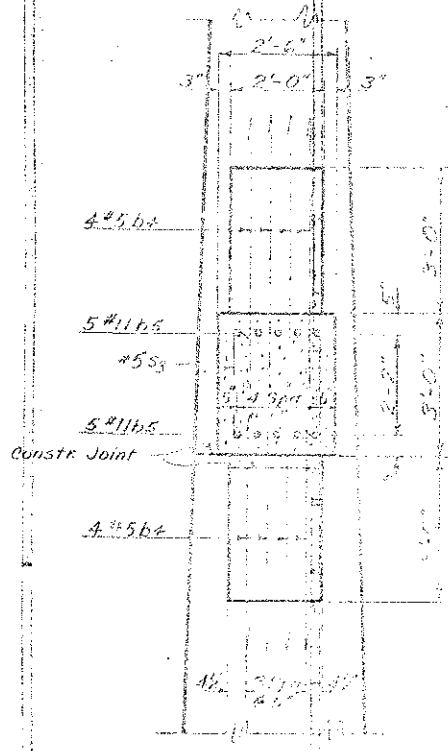
SECTION A-A



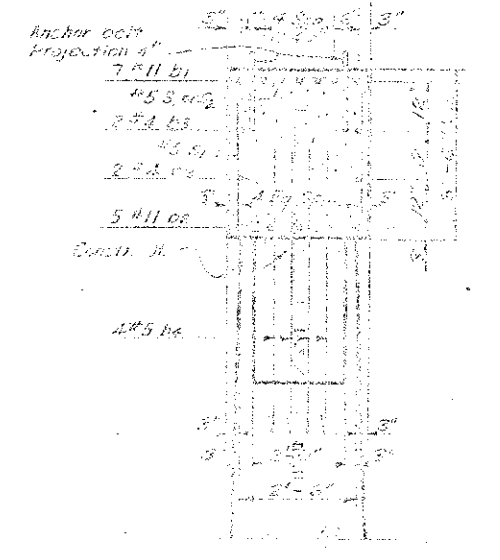
SECTION B-B



SECTION D-D



SECTION C-C



SECTION THRU CAP

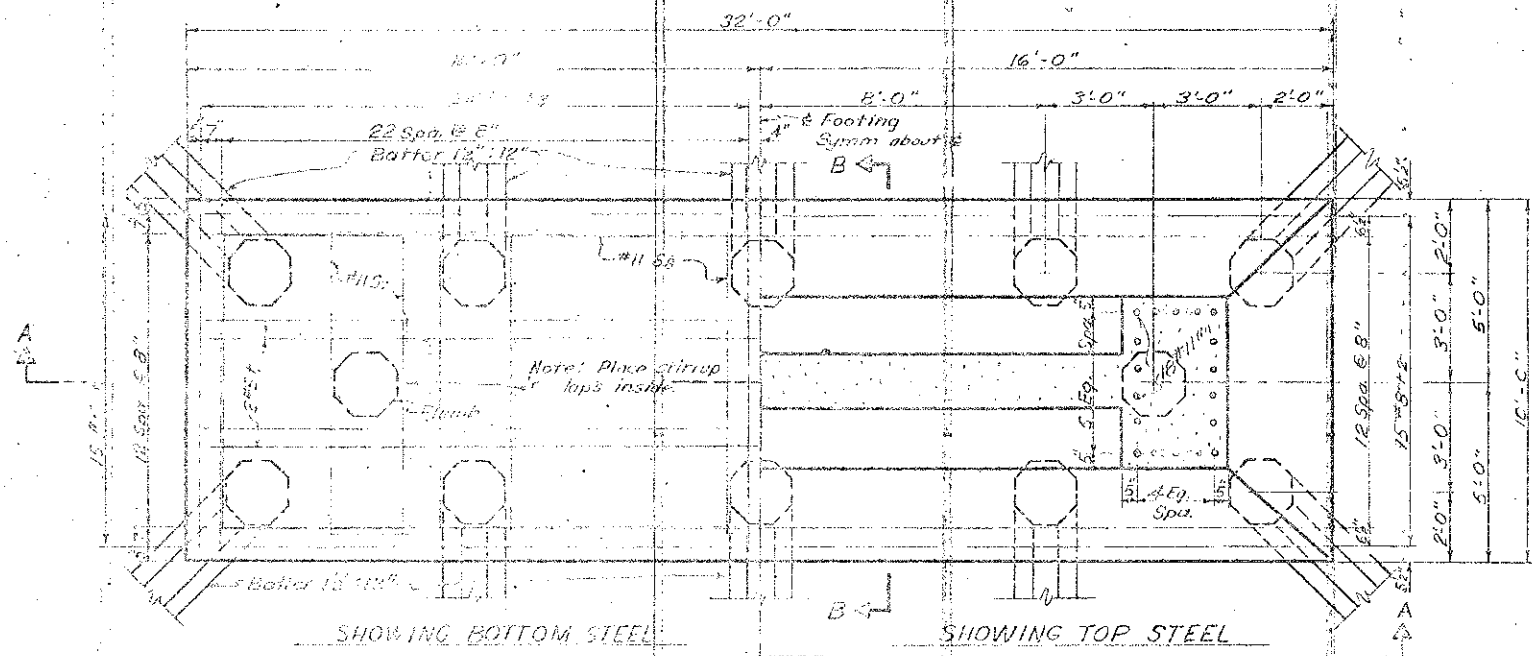
NOTE: Cap width to be based on project or to be determined by engineer.

PROJECT No. 821306
 DATE COUNTY
 STATION 116+25

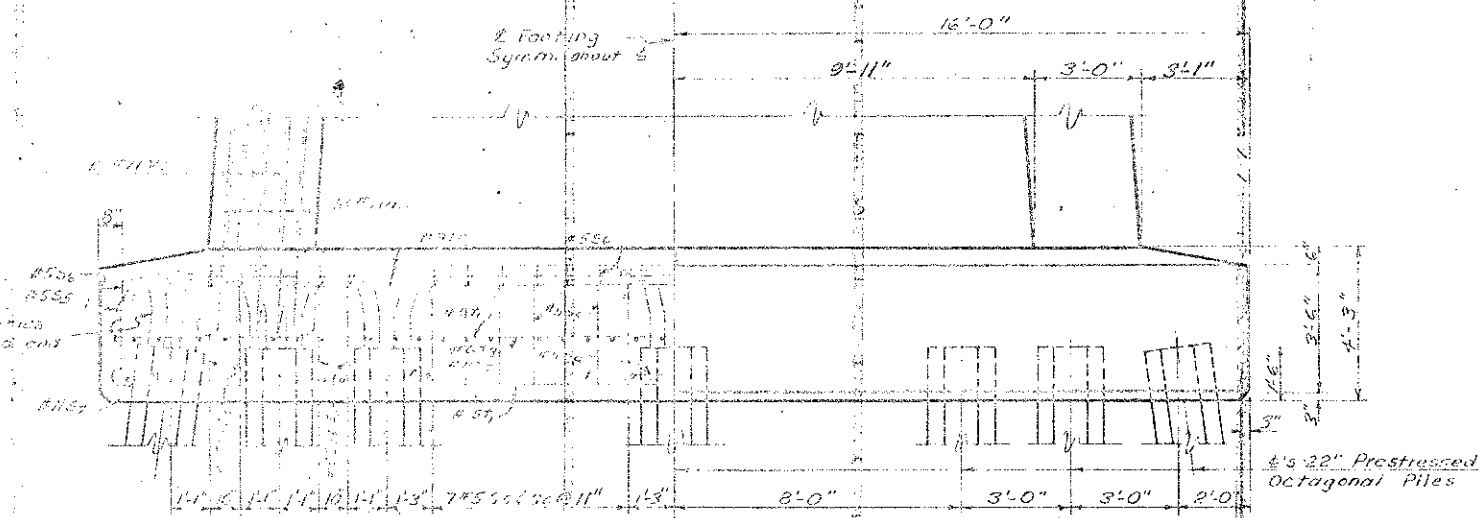
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BENT No. 133 or No. 156

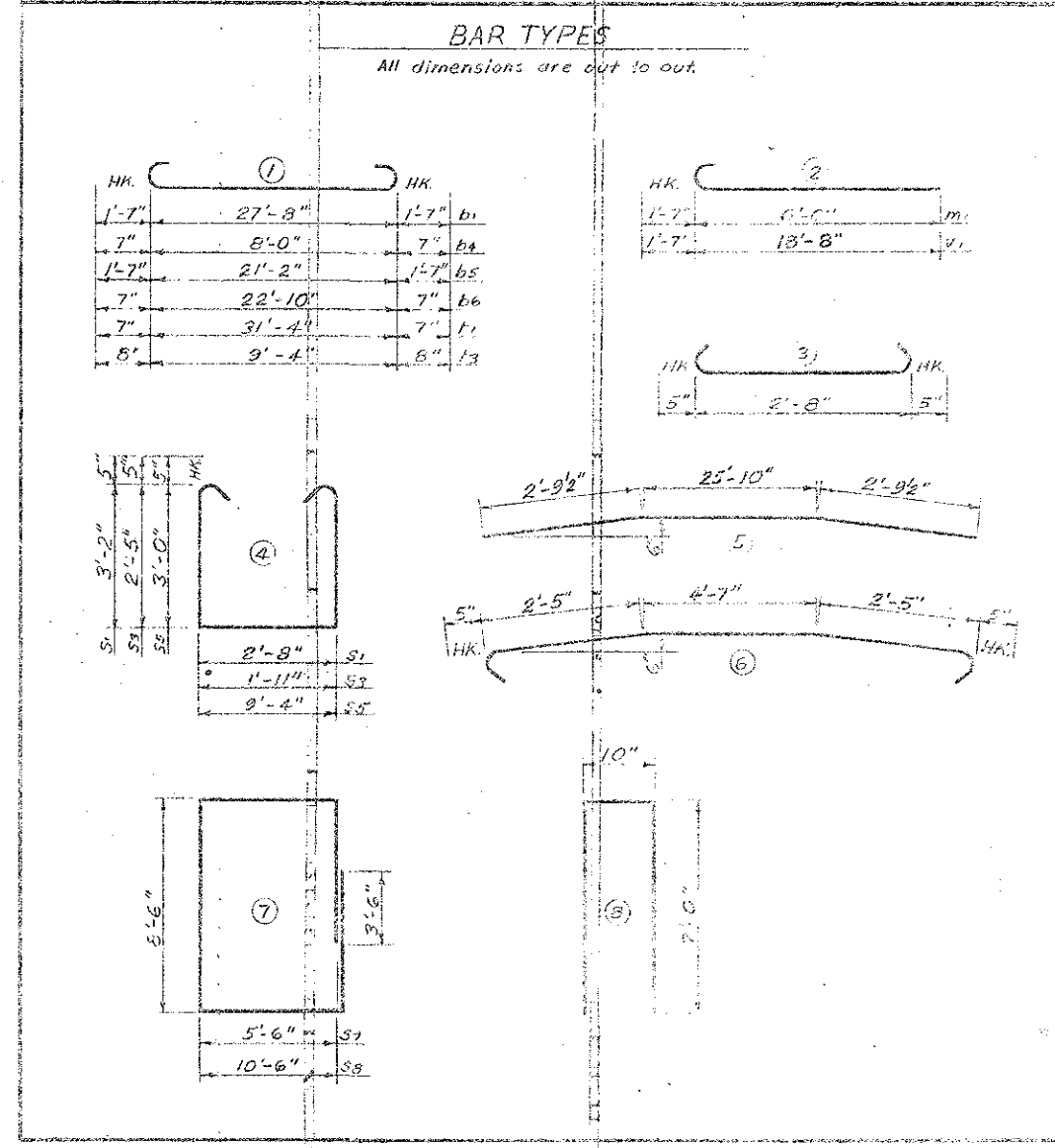
NOV 1961



PLAN OF FOOTING



SECTION A-A



BAR TYPES

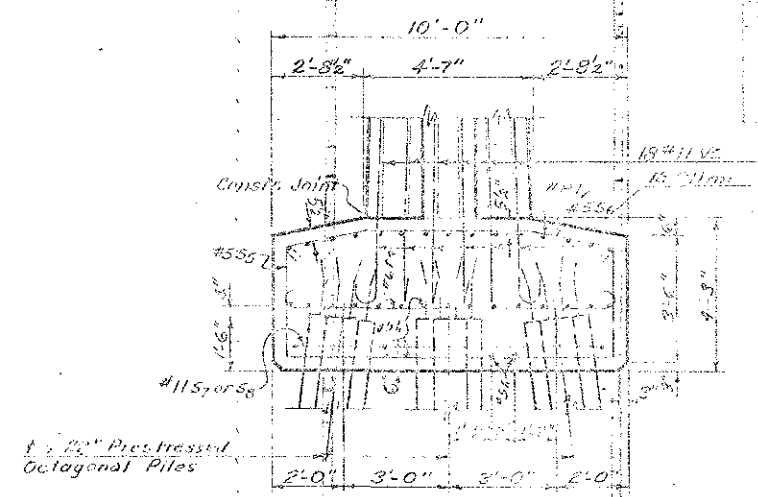
All dimensions are out to out.

BILL OF MATERIAL FOR ONE BENT-2 REQ'D.

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	1	30'-10"	1147
b2	#11	Str.	27'-8"	735
b3	#4	Str.	27'-8"	74
b4	#5	1	9'-2"	306
b5	#11	1	24'-3"	1293
b6	#5	1	24'-0"	850
m1	#11	2	7'-7"	1450
s1	#5	4	3'-0"	15
s2	#3	3	3'-0"	12
s3	#5	4	7'-7"	118
s4	#4	6	12'-10"	113
s5	#5	4	16'-2"	405
s6	#5	6	10'-3"	257
s7	#11	7	31'-6"	660
s8	#11	7	41'-5"	411
f1	#5	7	22'-8"	314
f2	#3	6	31'-5"	1256
f3	#5	1	10'-2"	763
h1	#11	2	20'-3"	3373
h2	#11	Str.	21'-5"	4004

Reinforcing Steel - Len. 10,54
 Class II Concrete - Cu Yds 227
 22" Oct. Prestr. Conc. Piles
 24 #133 - No. 12 - Lin. Ft. 660
 24 #156 - No. 12 - Lin. Ft. 763

* Note: Concrete displaced by pile heads has been deducted



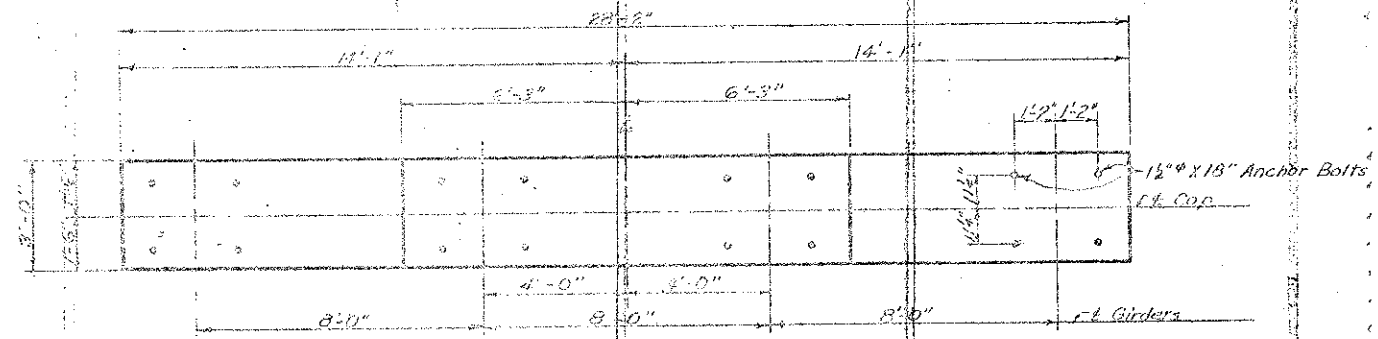
SECTION B-B

PROJECT NO. 821366
 DARE COUNTY
 STATION 116+35

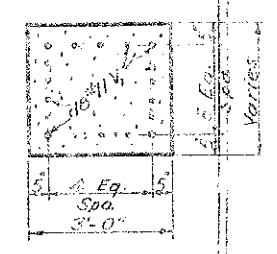
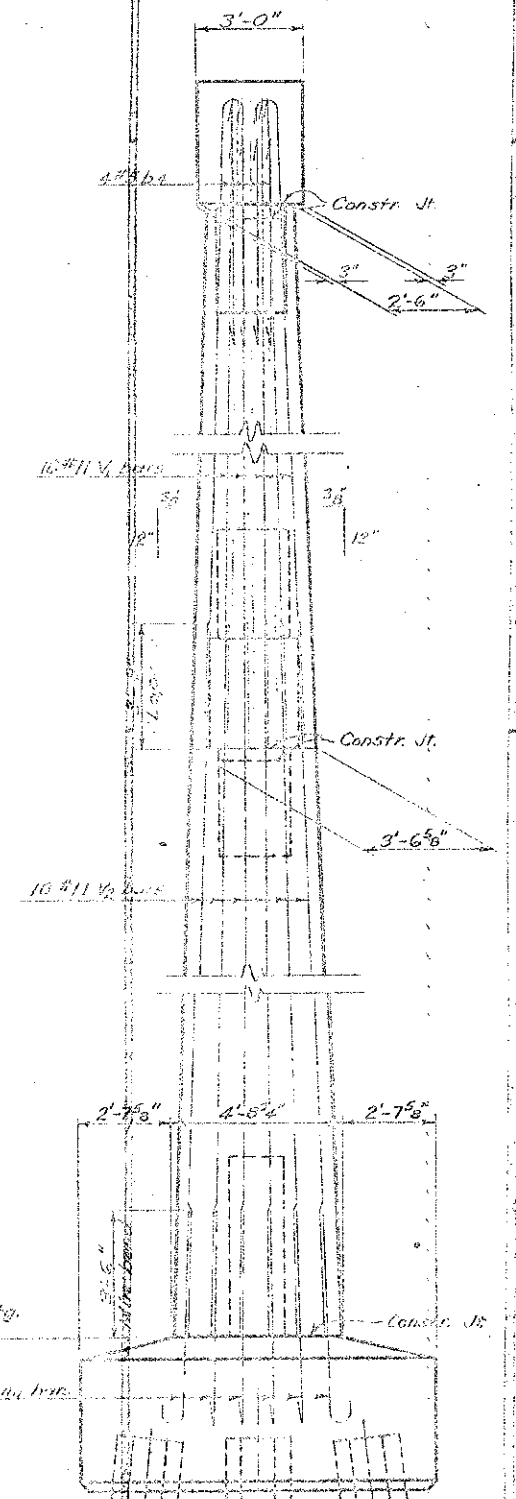
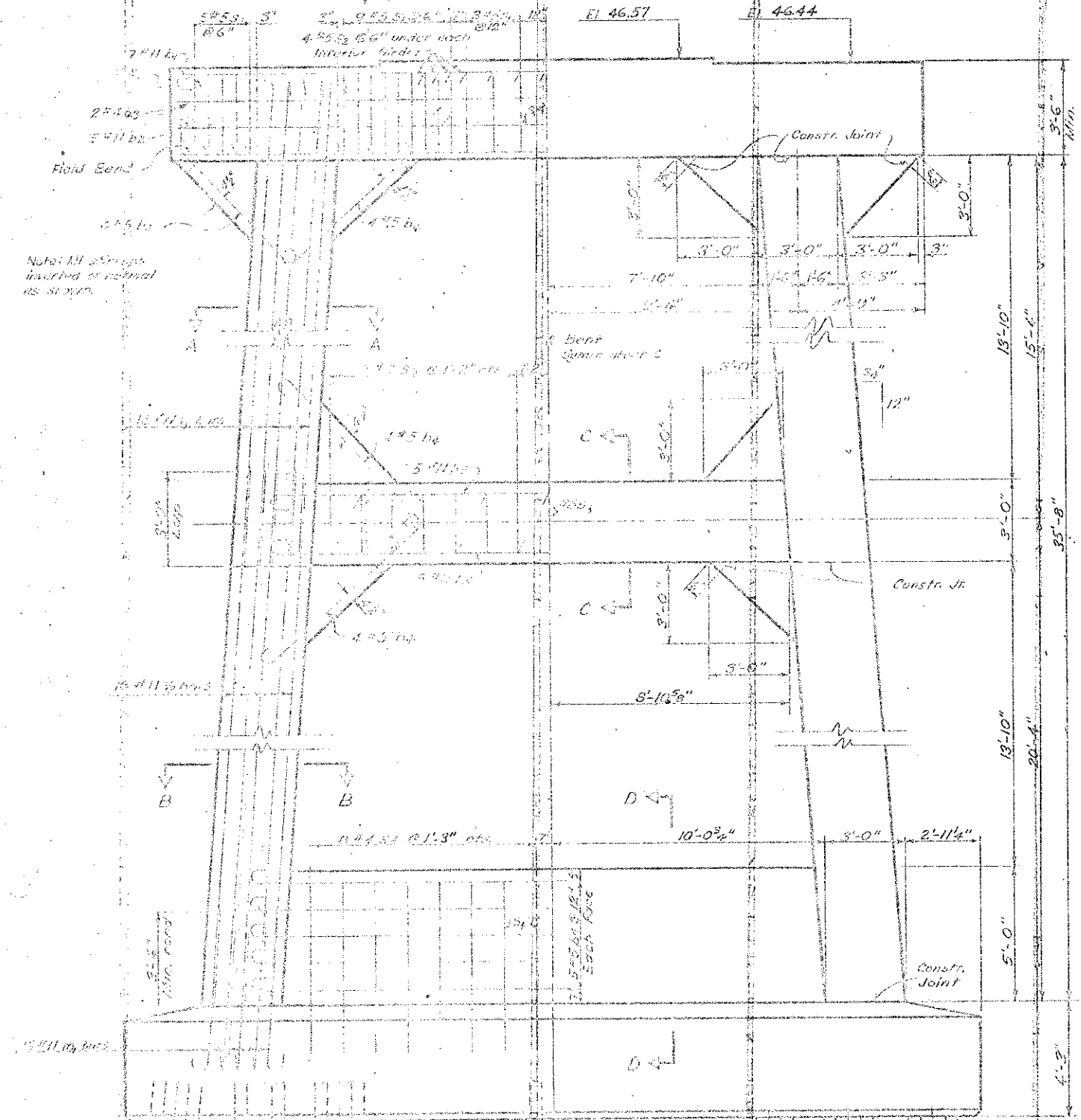
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BENT No. 133 or No. 156

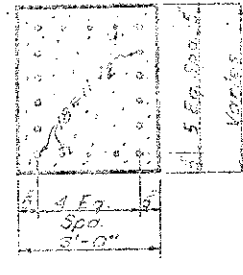
NOV 1961



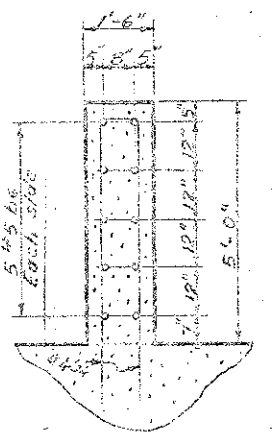
PLAN OF CAP



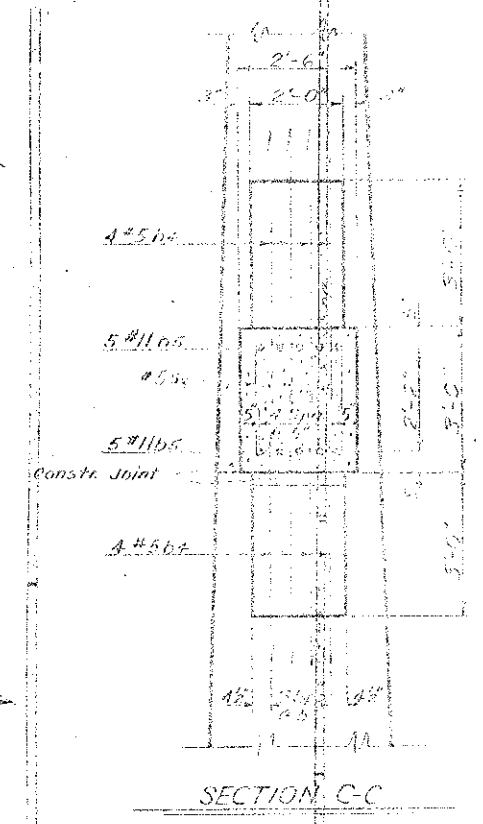
SECTION A-A



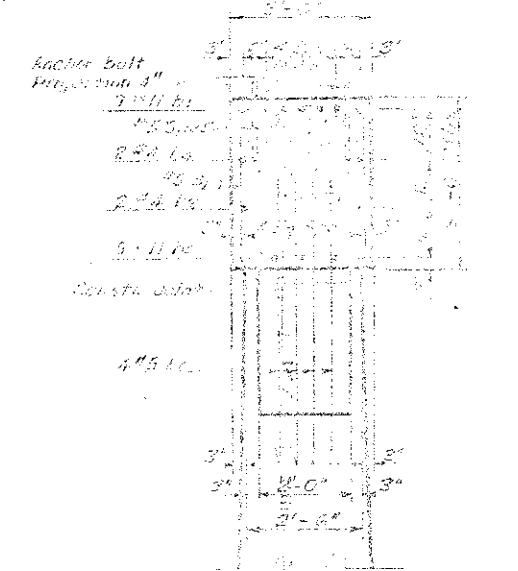
SECTION B-B



SECTION D-D



SECTION C-C

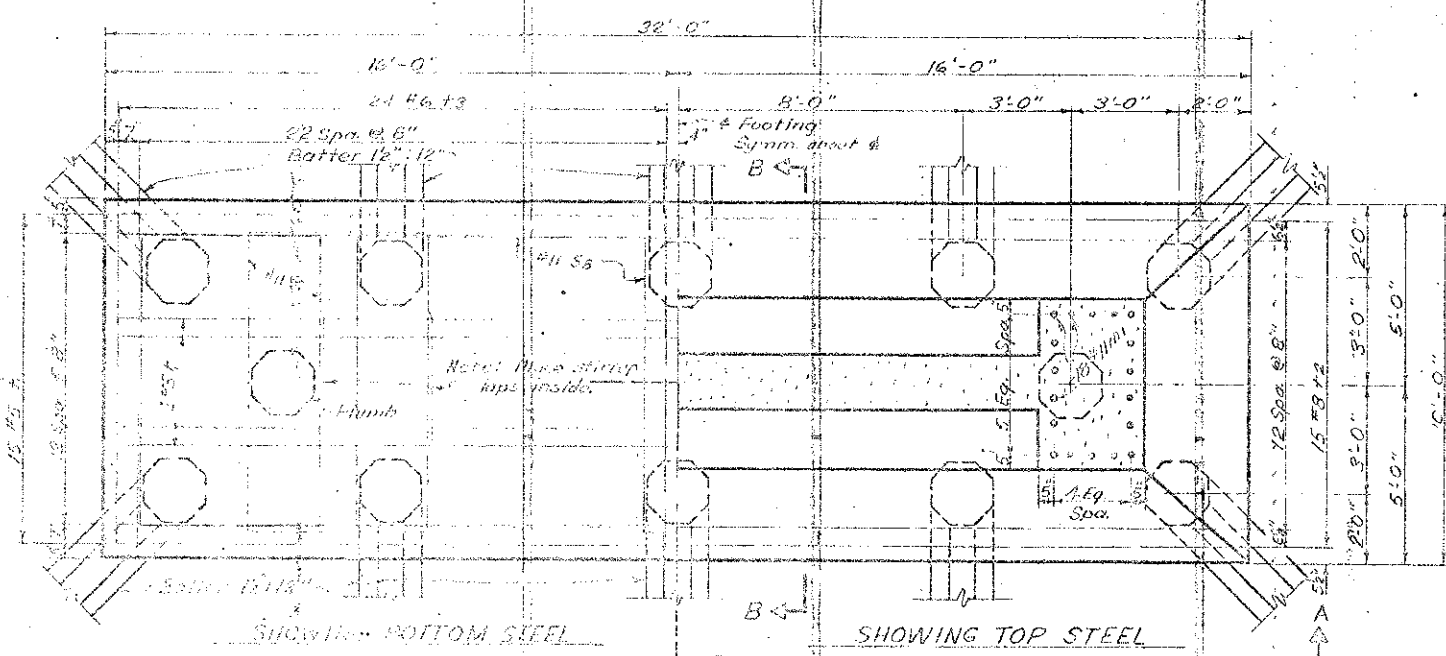


SECTION THRU CAP

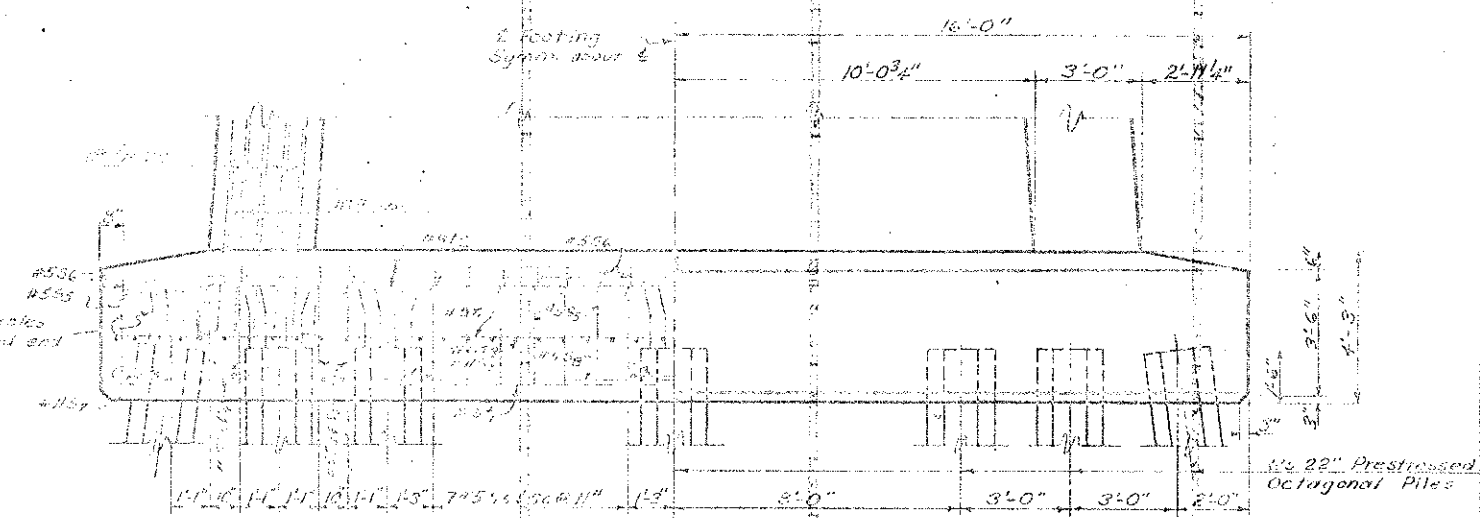
PROJECT NO. 5,21306
 DARE COUNTY
 STATION: 116+25

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT No. 134 of No. 155

NOV



PLAN OF FOOTING



SECTION A-A

BAR TYPES
All dimensions are out to out

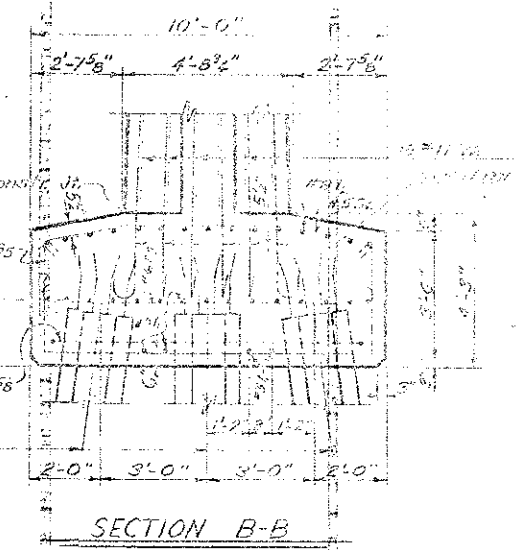
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	1	30'-10"	1127
b2	#11	STR	27'-8"	735
b3	#4	STR	27'-8"	74
b4	#5	1	9'-2"	305
b5	#11	1	24'-10"	1315
b6	#5	1	24'-0"	250
m1	#11	2	7'-7"	1400
s1	#5	4	3'-10"	358
s2	#3	3	3'-6"	37
s3	#5	4	7'-7"	175
s4	#4	8	14'-10"	155
s5	#5	4	16'-2"	405
s6	#5	6	10'-3"	257
s7	#11	7	3'-3"	383
s8	#11	7	4'-5"	415
l1	#5	1	31'-6"	374
l2	#3	2	31'-5"	1250
l3	#5	1	10'-4"	307
l4	#11	2	21'-5"	4086
l5	#11	STR	22'-7"	4310

* Note: Concrete displaced by pile heads has been accounted for.

BILL OF MATERIAL
FOR ONE BENT-2 REQ'D

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	1	30'-10"	1127
b2	#11	STR	27'-8"	735
b3	#4	STR	27'-8"	74
b4	#5	1	9'-2"	305
b5	#11	1	24'-10"	1315
b6	#5	1	24'-0"	250
m1	#11	2	7'-7"	1400
s1	#5	4	3'-10"	358
s2	#3	3	3'-6"	37
s3	#5	4	7'-7"	175
s4	#4	8	14'-10"	155
s5	#5	4	16'-2"	405
s6	#5	6	10'-3"	257
s7	#11	7	3'-3"	383
s8	#11	7	4'-5"	415
l1	#5	1	31'-6"	374
l2	#3	2	31'-5"	1250
l3	#5	1	10'-4"	307
l4	#11	2	21'-5"	4086
l5	#11	STR	22'-7"	4310

Reinforcing Steel - 15,213
 Class "A" Concrete - 55,300
 22" Oct Prest. Piles - 113,705
 St #134 - No 12 - 11,760
 St #155 - No 12 - 11,760



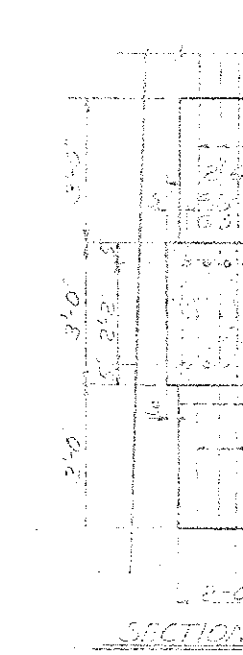
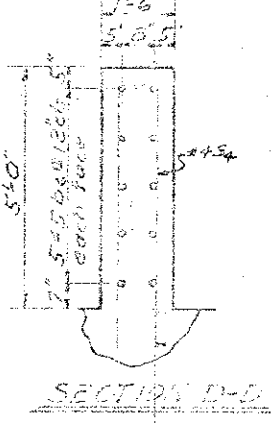
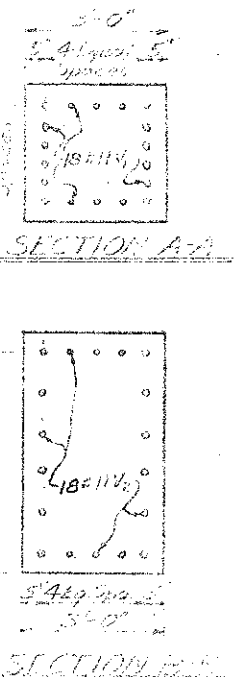
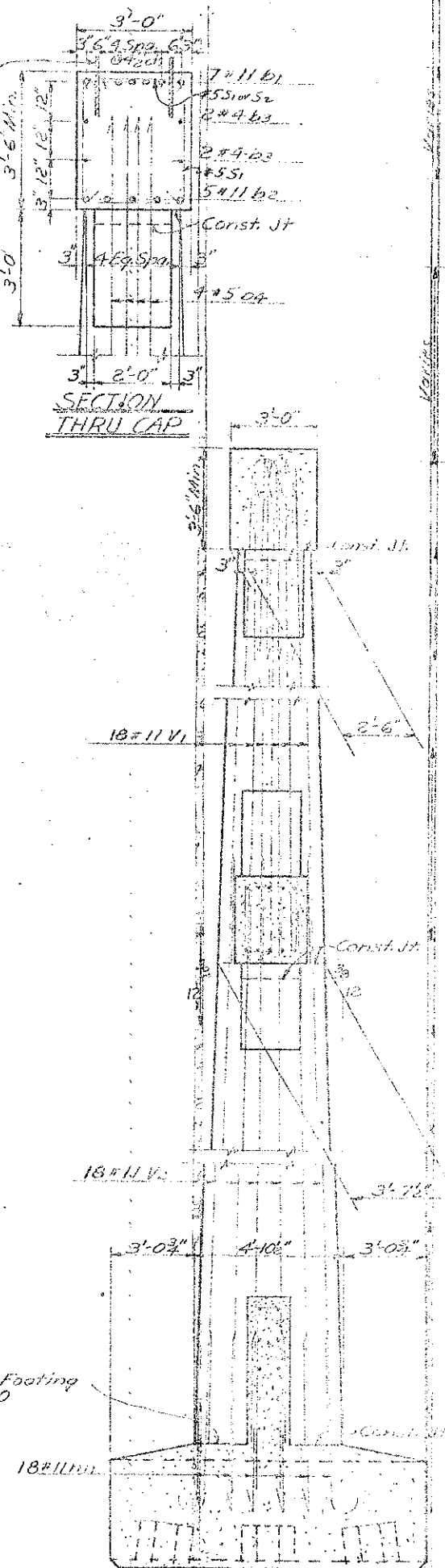
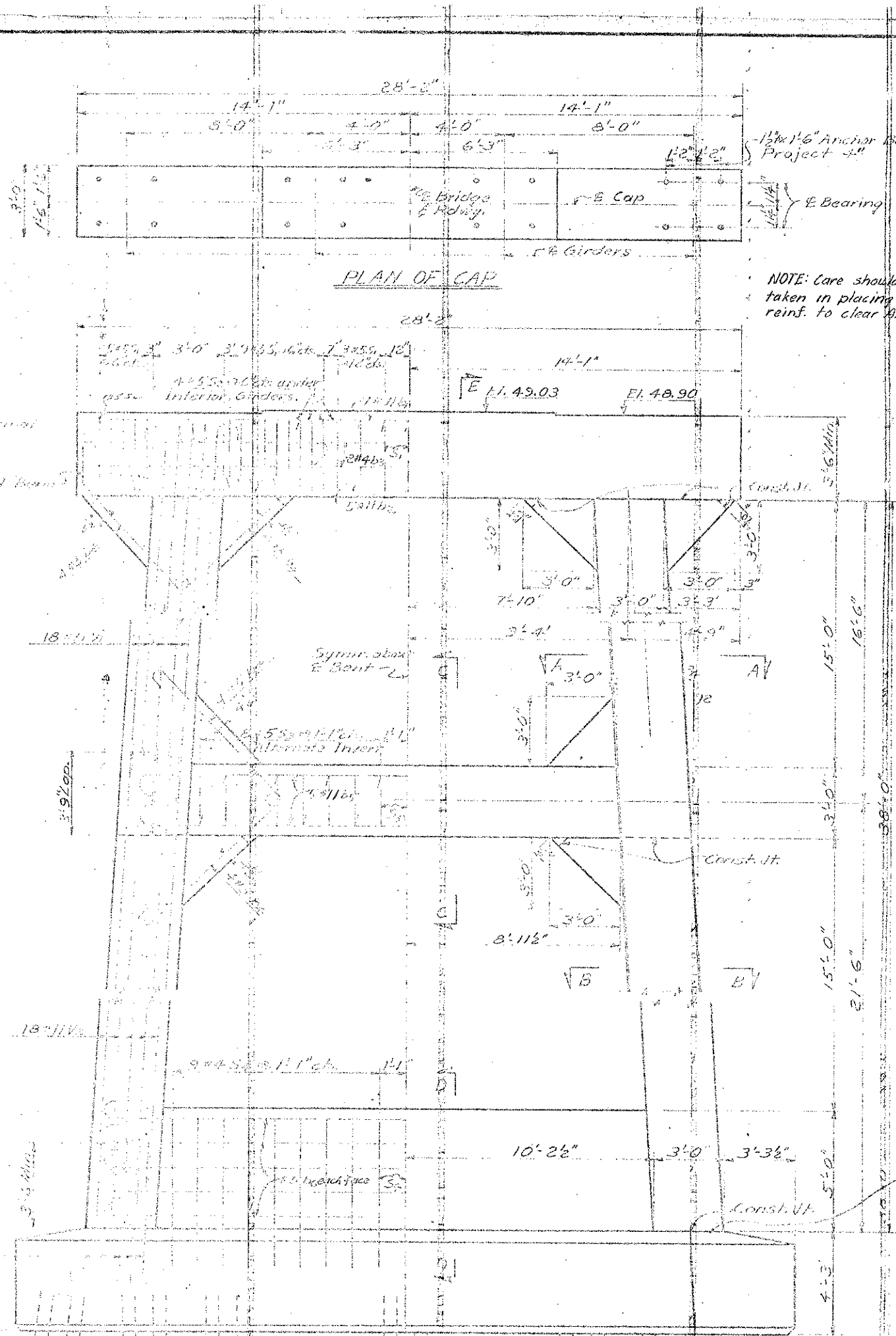
SECTION B-B

PROJECT NO. B.21306
 DARE COUNTY
 STATION: 116+25

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BENT No. 134 or No. 155

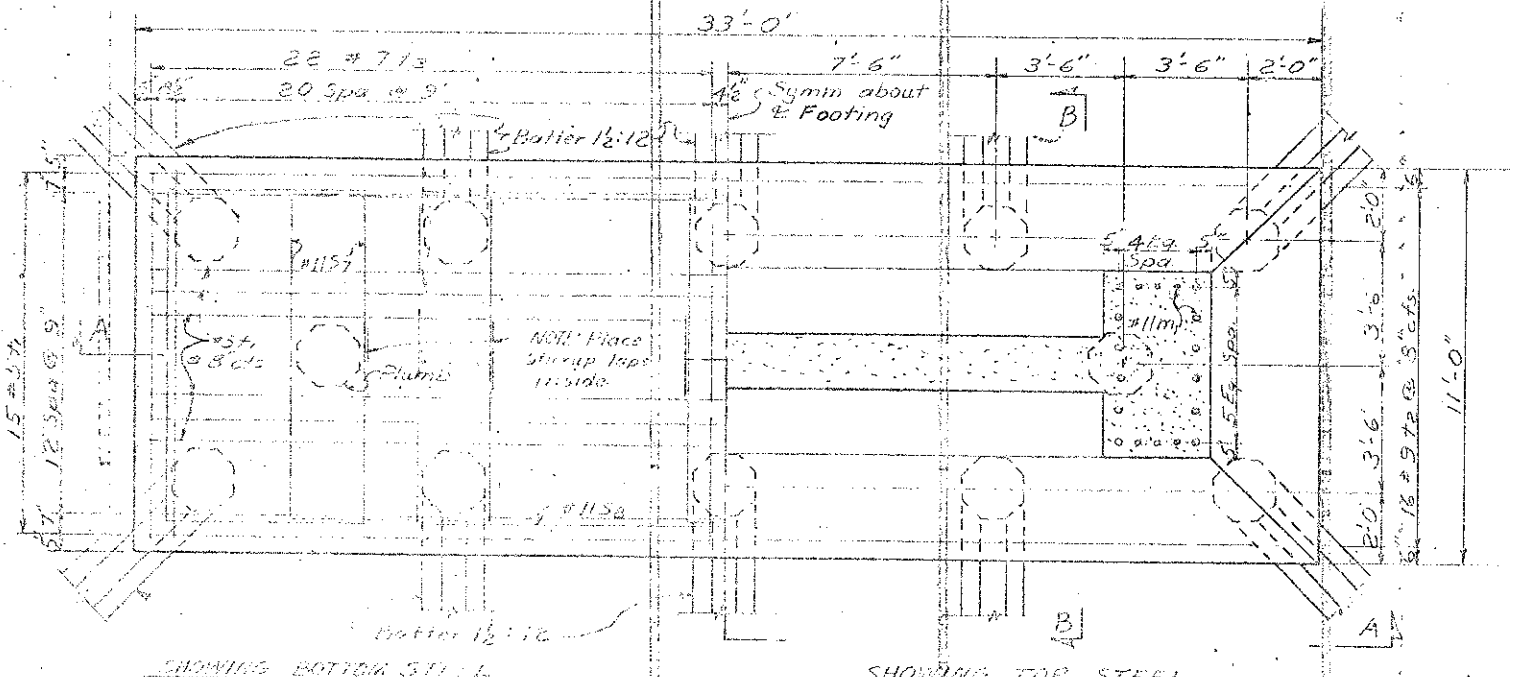
NOV 1951



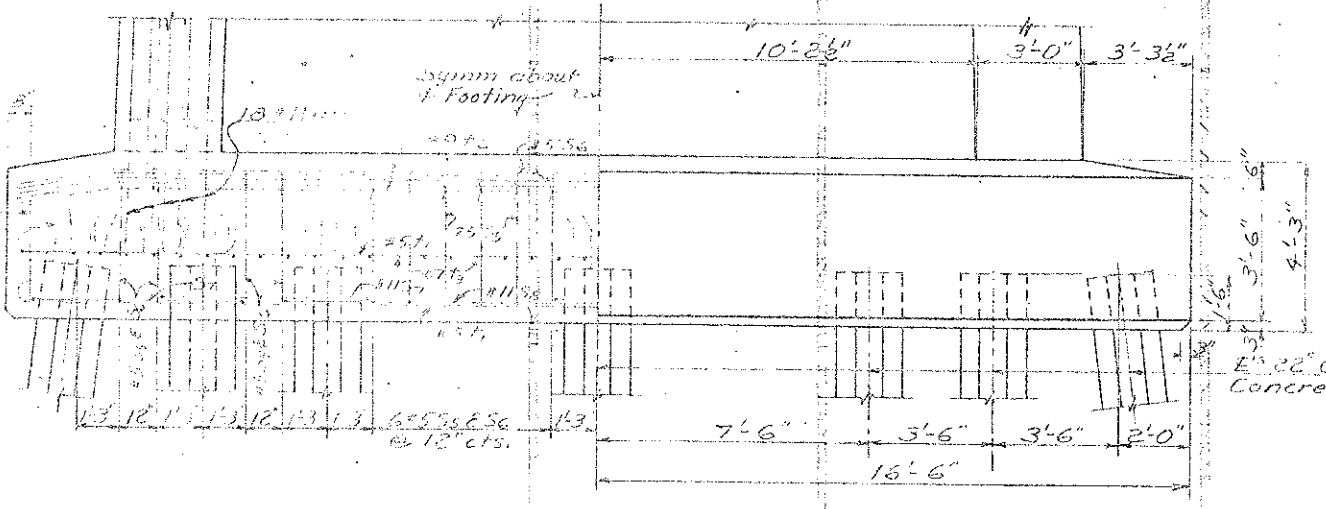
NOTE: Care should be taken in placing Cap reinf. to clear Anch. Bolts.

NOTE: Stirrups S, Normal or Inverted as shown.

PROJECT No. B.21356
 DATE: COUNTY
 STATION: 16+25
 SHEET 1 of 2
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BRIDGE NO. 135 OR 154
 NOVEMBER 1961



SHOWING BOTTOM STEEL
 SHOWING TOP STEEL
 PLAN OF FOOTING



SECTION A-A

BAR TYPES

NOTE: All bar dimensions are out-to-out.

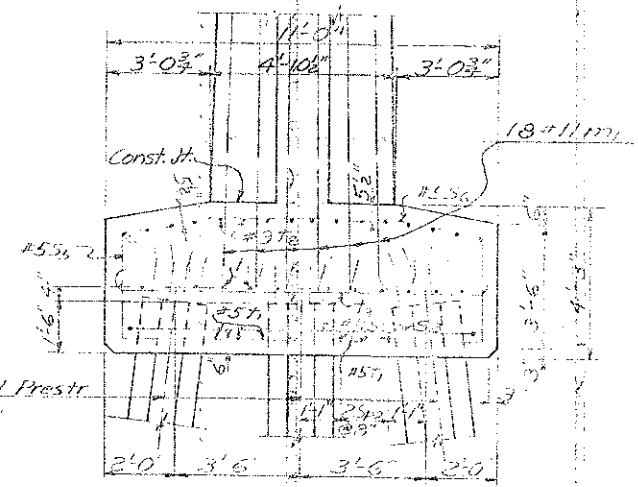
HA	SIZE	TYPE	LENGTH	WEIGHT
11A	27'-8"	b1	1'-7"	
7"	8'-0"	b4	7"	
1'-7"	21'-8"	b5	1'-7"	
7"	24'-6"	b6	7"	
7"	32'-4"	b1	7"	
10"	10'-4"	b3	10"	
3"	2'-8"	S1		
3"	1'-11"	S3		
3"	10'-4"	S5		
3"	5'-6"	S7		
3"	10'-0"	S8		

BILL OF MATERIAL
 FOR 1 BENT - 2 REQ'D

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	7	#11	1	30'-10" 1147
b2	5	#11	5/4	1'-8" 735
b3	4	#4	5/4	27'-8" 74
b4	32	#5	1	9'-2" 306
b5	10	#11	1	24'-10" 1319
b6	10	#5	1	25'-8" 268
b7	36	#11	2	7'-7" 1450
S1	35	#5	3	9'-10" 359
S2	10	#5	6	2'-6" 37
S3	17	#5	3	7'-7" 134
S4	19	#4	3	14'-10" 188
S5	22	#5	3	17'-2" 574
S6	22	#5	5	11'-3" 258
S7	4	#11	7	34'-6" 733
S8	5	#11	7	42'-6" 452
V1	21	#5	1	33'-2" 384
V2	26	#9	4	32'-5" 1183
V3	24	#7	1	12'-0" 1-11
V4	36	#11	2	22'-7" 4215
V5	38	#11	5/4	23'-5" 4813

*NOTE: Concrete displaced by pile heads has been deducted.

Reinforcing Steel - 100# 200# 300#
 4" Clear Concrete in walls
 22 Oct Prest. Conc. Piles
 11.135 No. 12 in 14" dia
 11.135 No. 12 in 14" dia



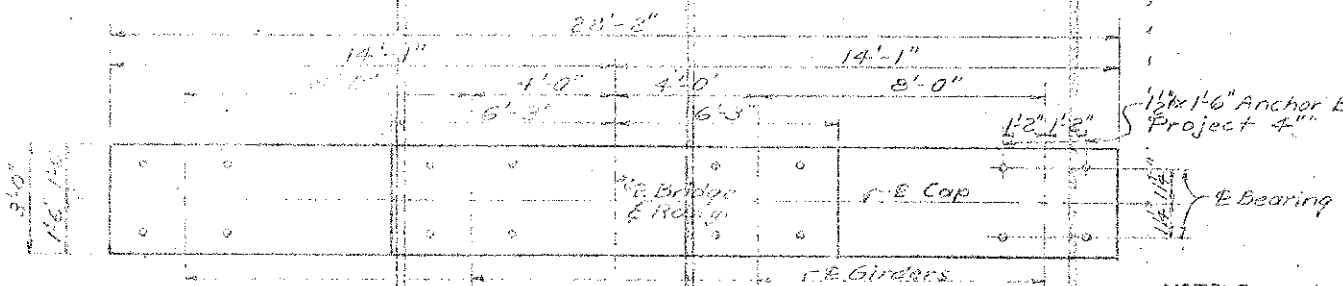
SECTION B-B

PROJECT NO. B-21306
 DARE COUNTY
 STATION 116+25
 SHEET 2 OF 2

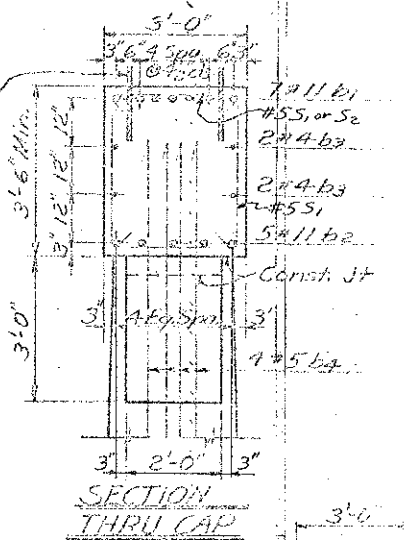
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BENT NO 135 OR 154

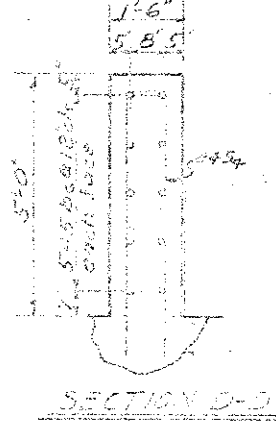
NOVEMBER 1961



NOTE: Care should be taken in placing Cap reinf. to clear Anch. Bolts.

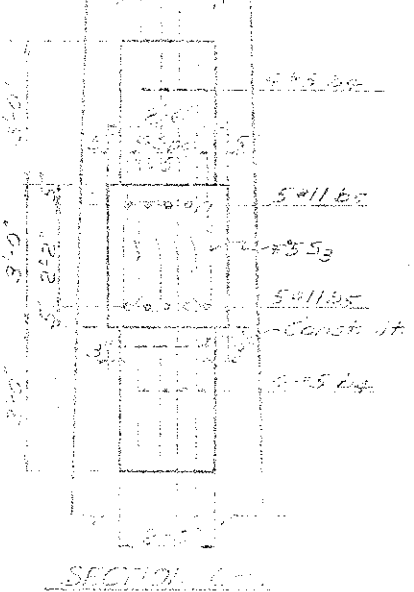
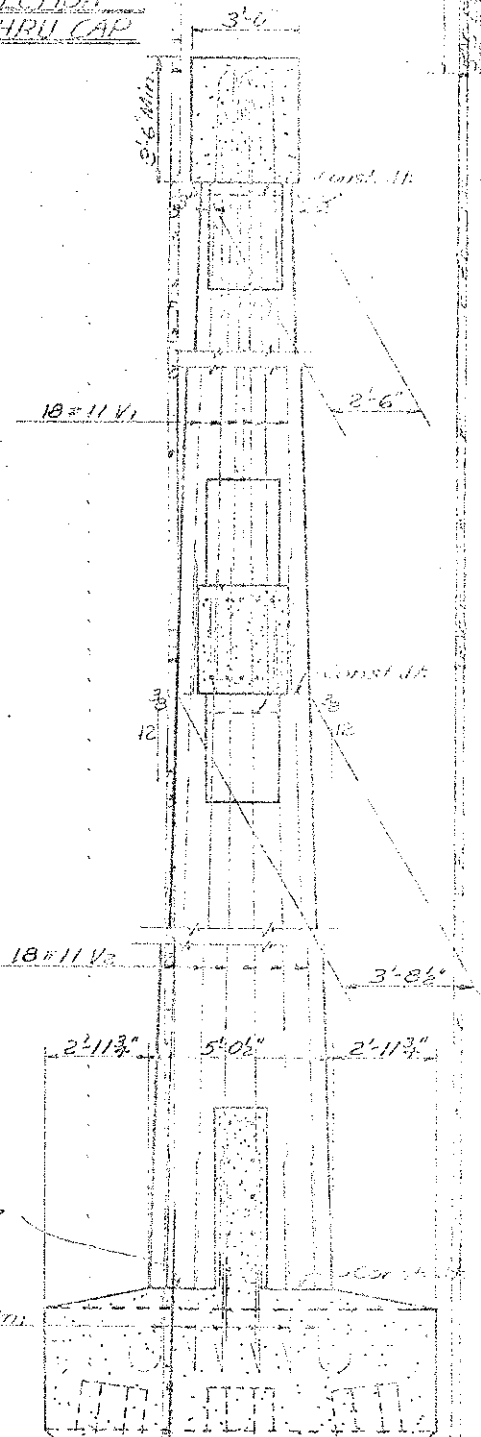
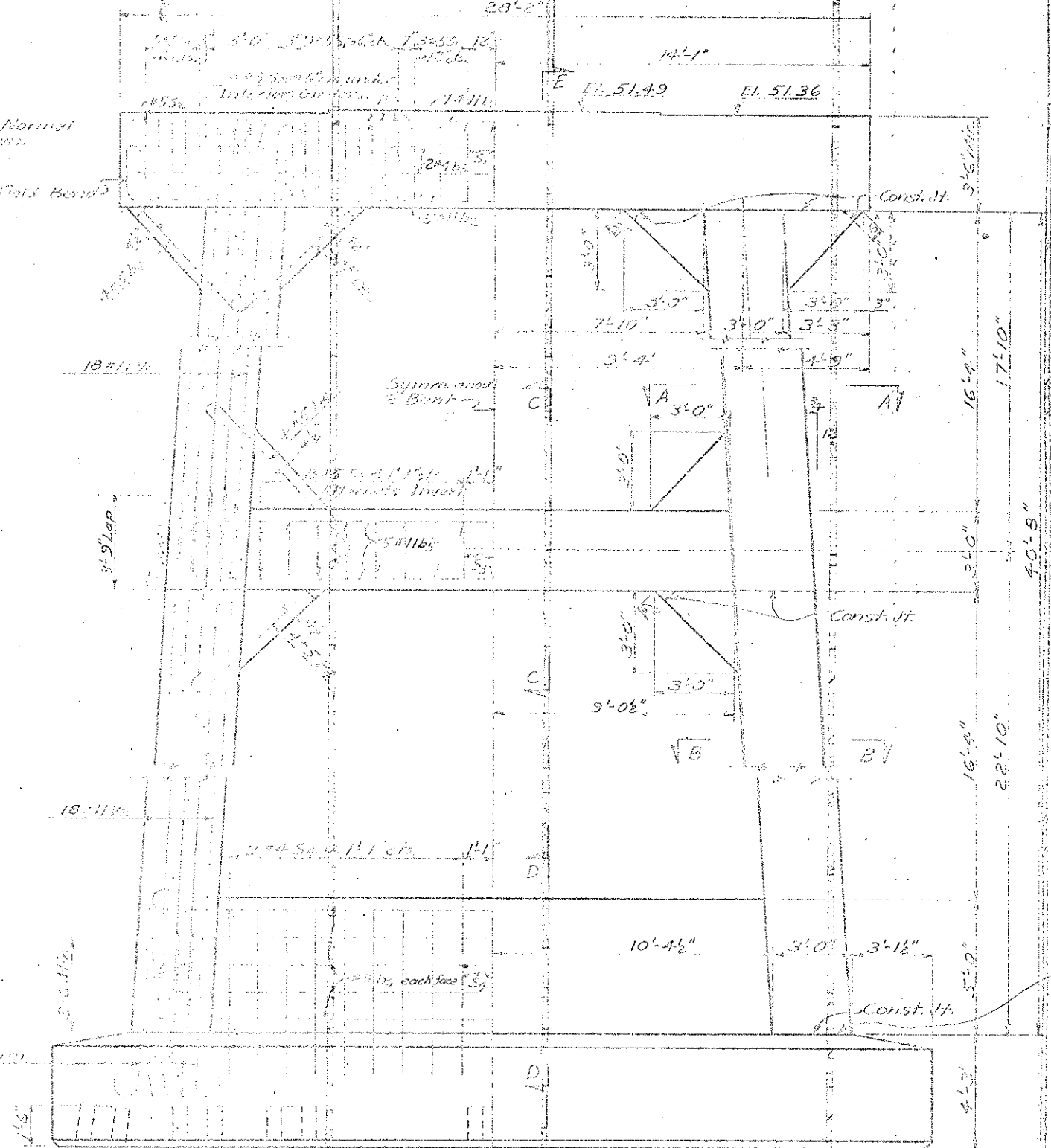


SECTION A-A



SECTION D-D

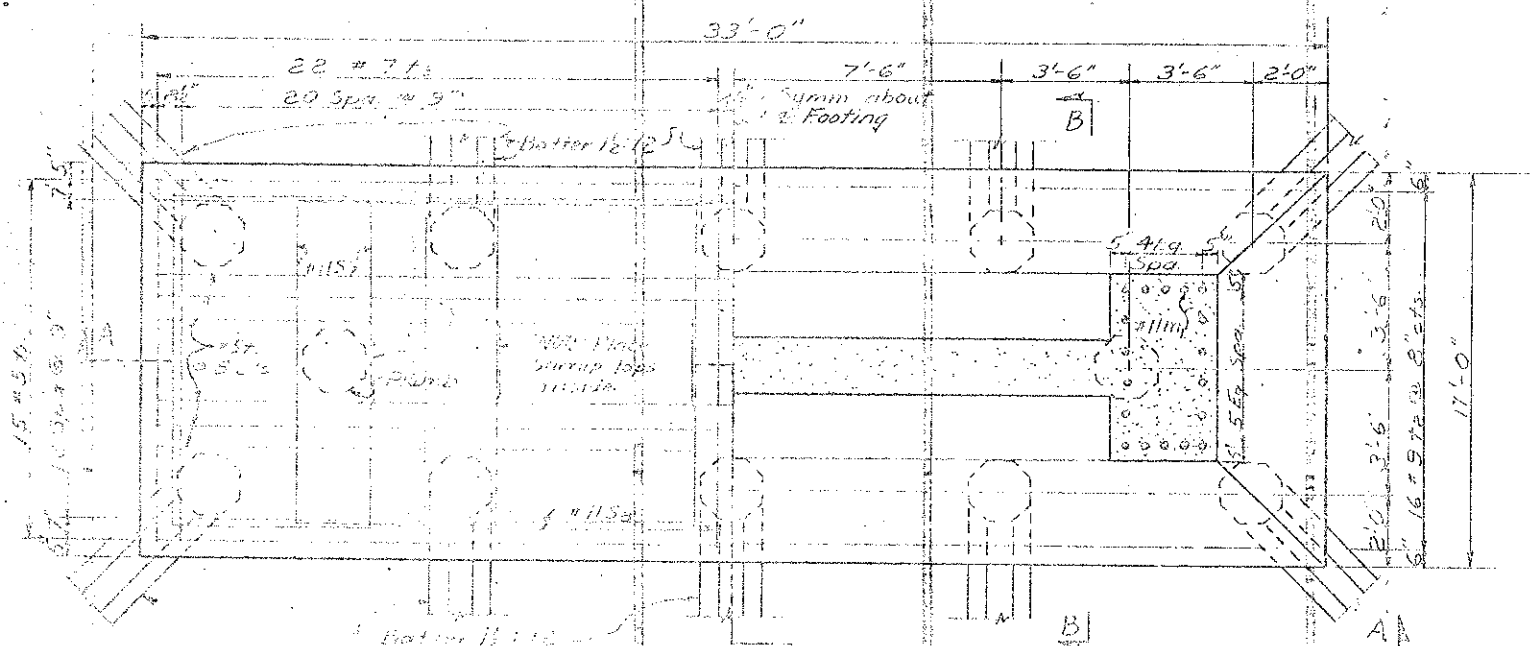
NOTE: Stresses S, Normal or Inserted as shown.



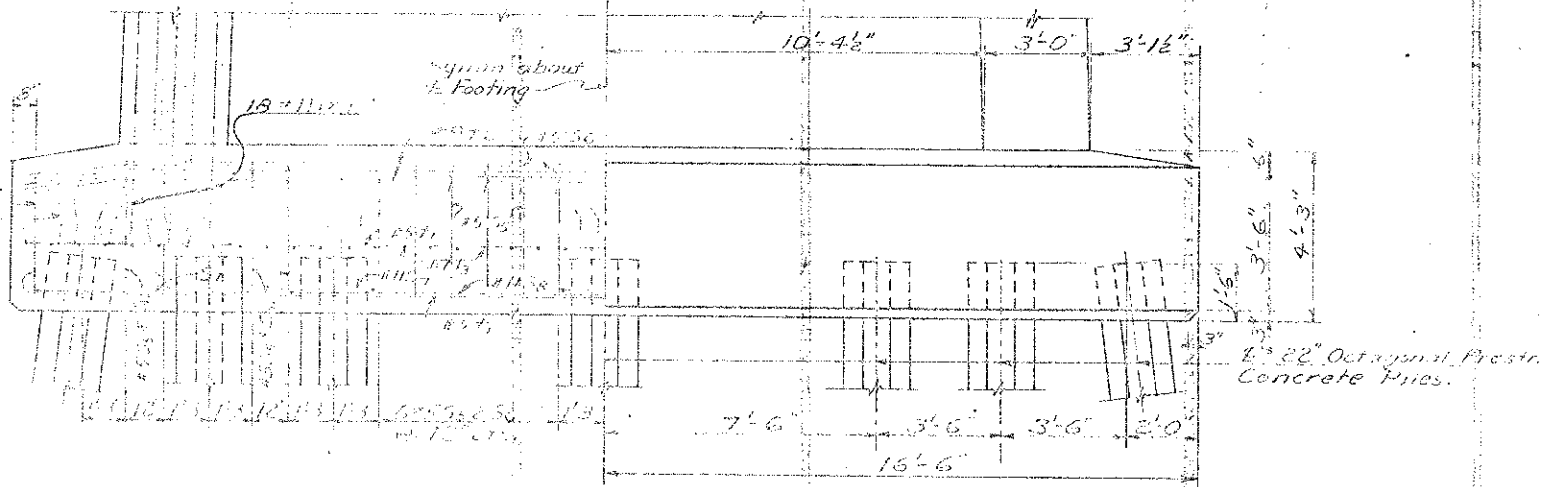
SECTION C-C

PROJECT No. 2150e
 DARE COUNTY
 STATION 115+22
 SHEET NO. 2

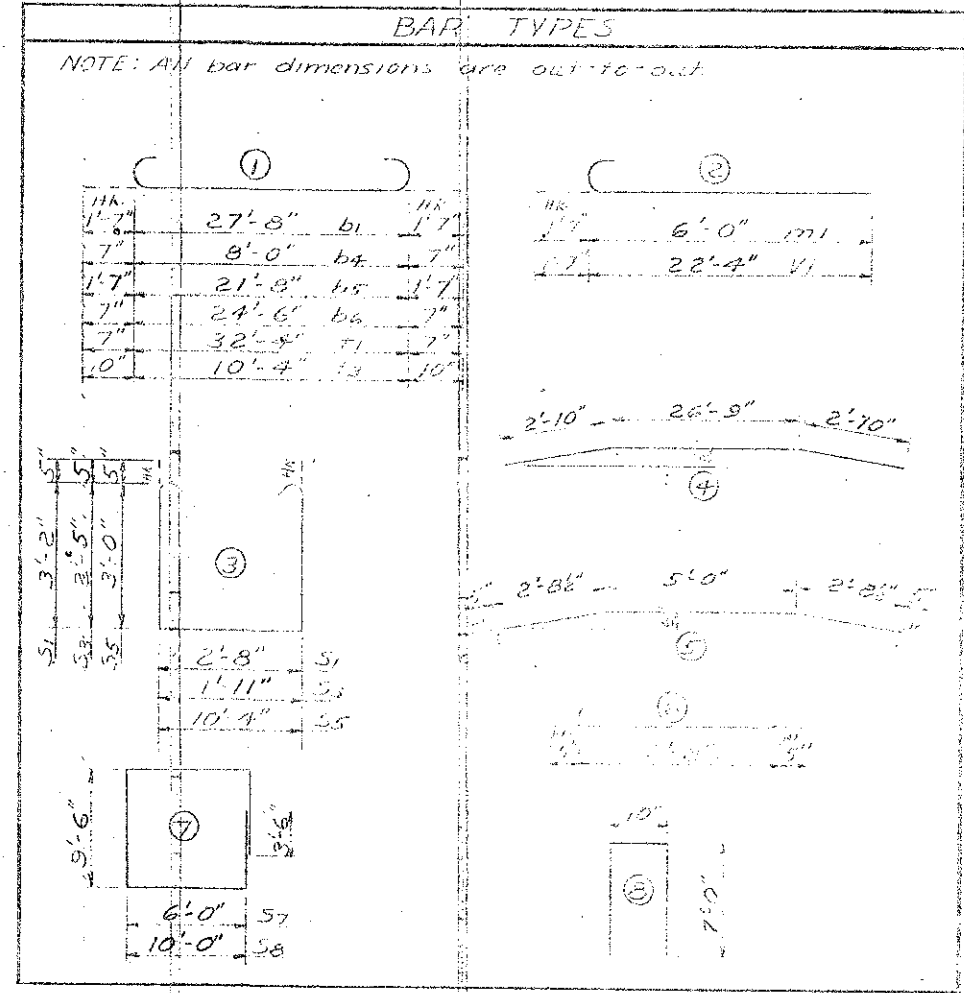
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 DIST. NO. 36 OR 153
 NOVEMBER 1951



SHOWING BOTTOM STEEL
SHOWING TOP STEEL
PLAN OF FOOTING



SECTION A-A

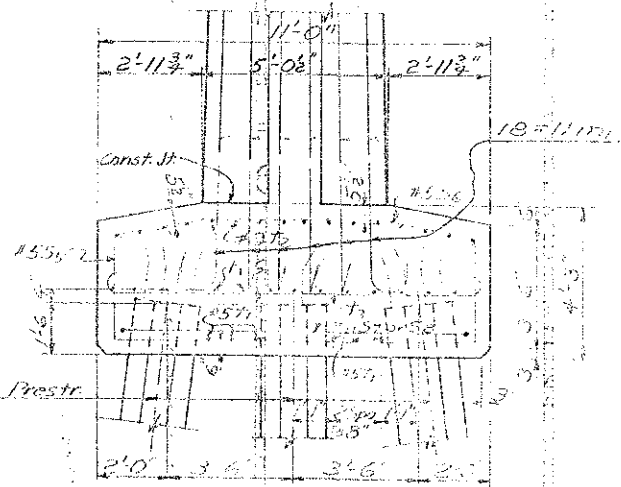


BILL OF MATERIAL FOR 1 BENT - 2 REOD

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	1	30'-10"	1147
b2	#11	5	27'-8"	735
b3	#4	17	27'-8"	74
b4	#5	1	9'-2"	306
b5	#11	1	24'-0"	1315
b6	#5	1	25'-8"	263
121.36 #11 2 75' 1430				
b7	#5	3	5'-10"	359
b8	#5	6	3'-2"	37
b9	#5	3	7'-7"	134
b10	#4	8	14'-10"	188
b11	#5	2	17'-2"	334
b12	#5	5	11'-3"	258
b13	#4	2	34'-6"	735
b14	#11	7	48'-6"	452
b15	#11	1	24'-0"	1257
b16	#11	2	23'-11"	4574
b17	#11	5	25'-11"	1728

*NOTE: Concrete displaced by pile heads, has been deducted

Foundations Steel - lbs 20522
 2' x 8" Concrete - cu yds 5.115
 22 Oct Prestr Conc Piles
 Dia. 136 No. 12 Lm. #780
 Dia. 153 No. 12 Lm. #780

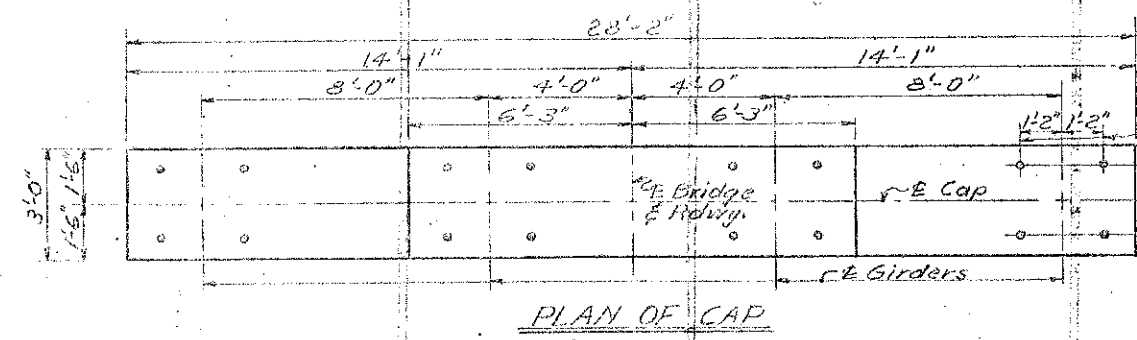


SECTION B-B

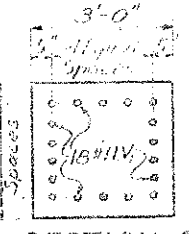
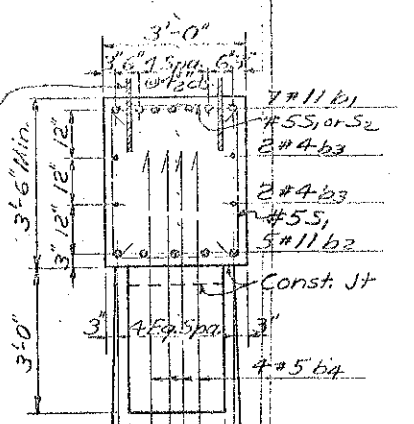
4" #2 Octagonal Prestr. Concrete Piles

PROJECT NO. 80396
 DANE COUNTY
 STATION 161.25
 SHEET 2 OF 2
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT NO. 136 OR 153
 NOVEMBER 1961

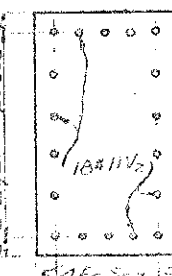
FED. ROAD REGION	STATE	PROJECT NO.
3	N.C.	8.21306
F. A. PROJECT 5-148(11)		



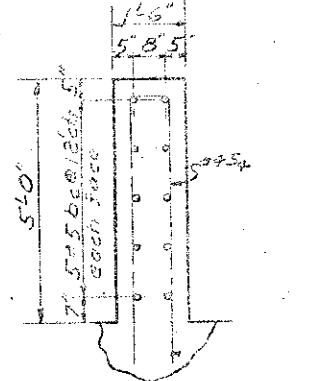
NOTE: Care should be taken in placing cap reinf. to clear Anch. Bolts.



SECTION A-A

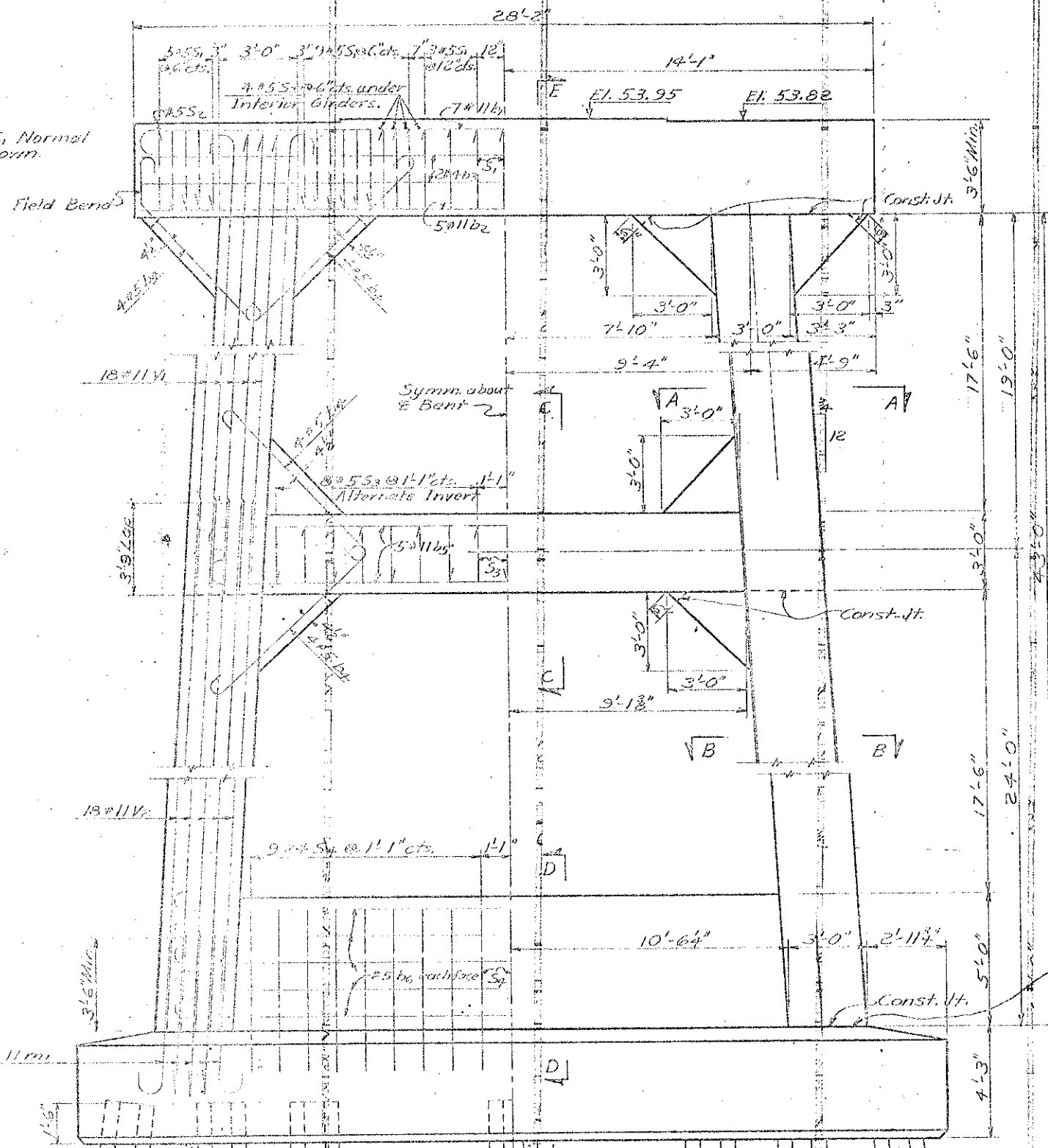


SECTION B-B

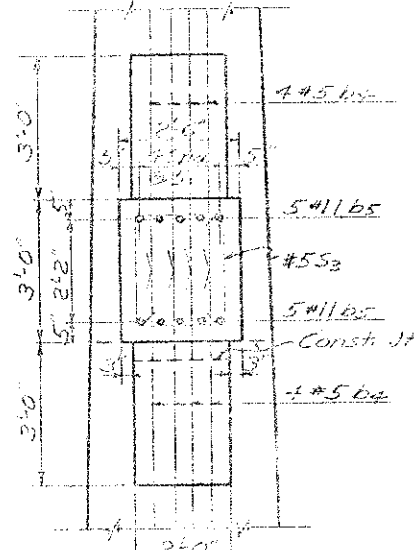
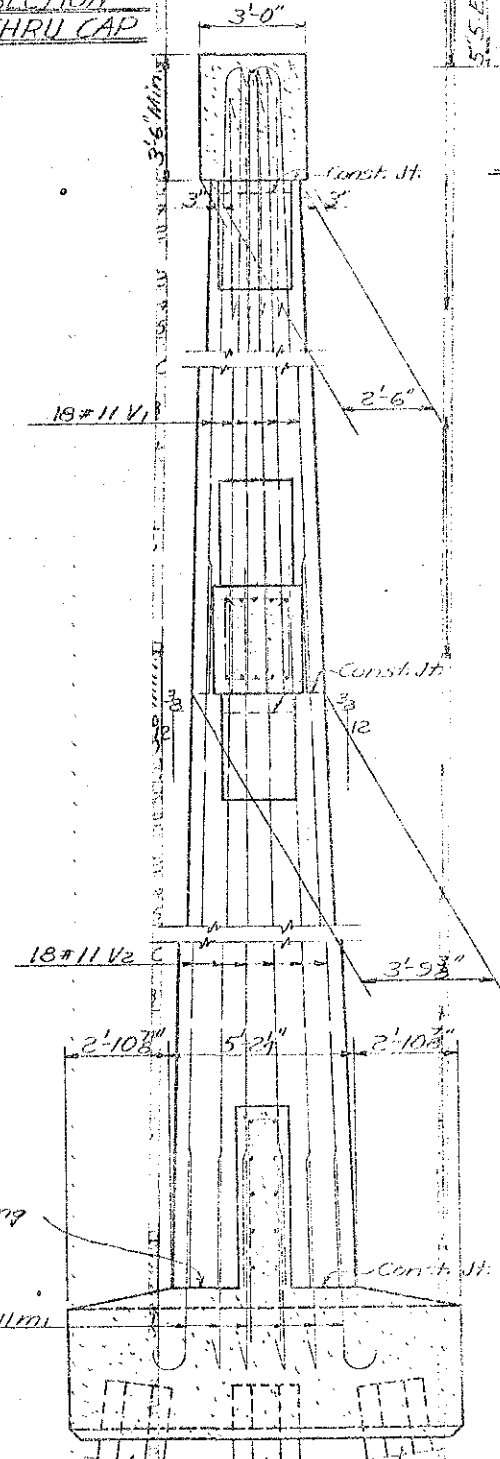


SECTION D-D

NOTE: Stirrups S, Normal or Inverted as shown.



SECTION THRU CAP

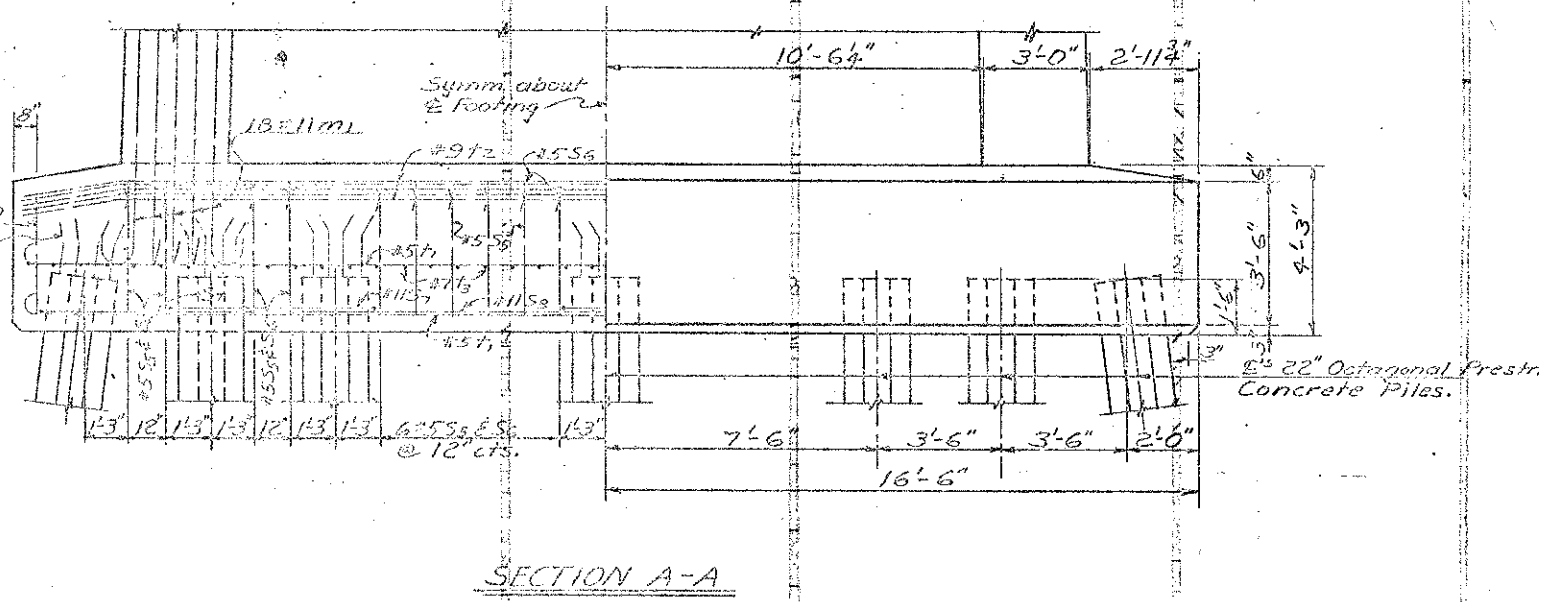
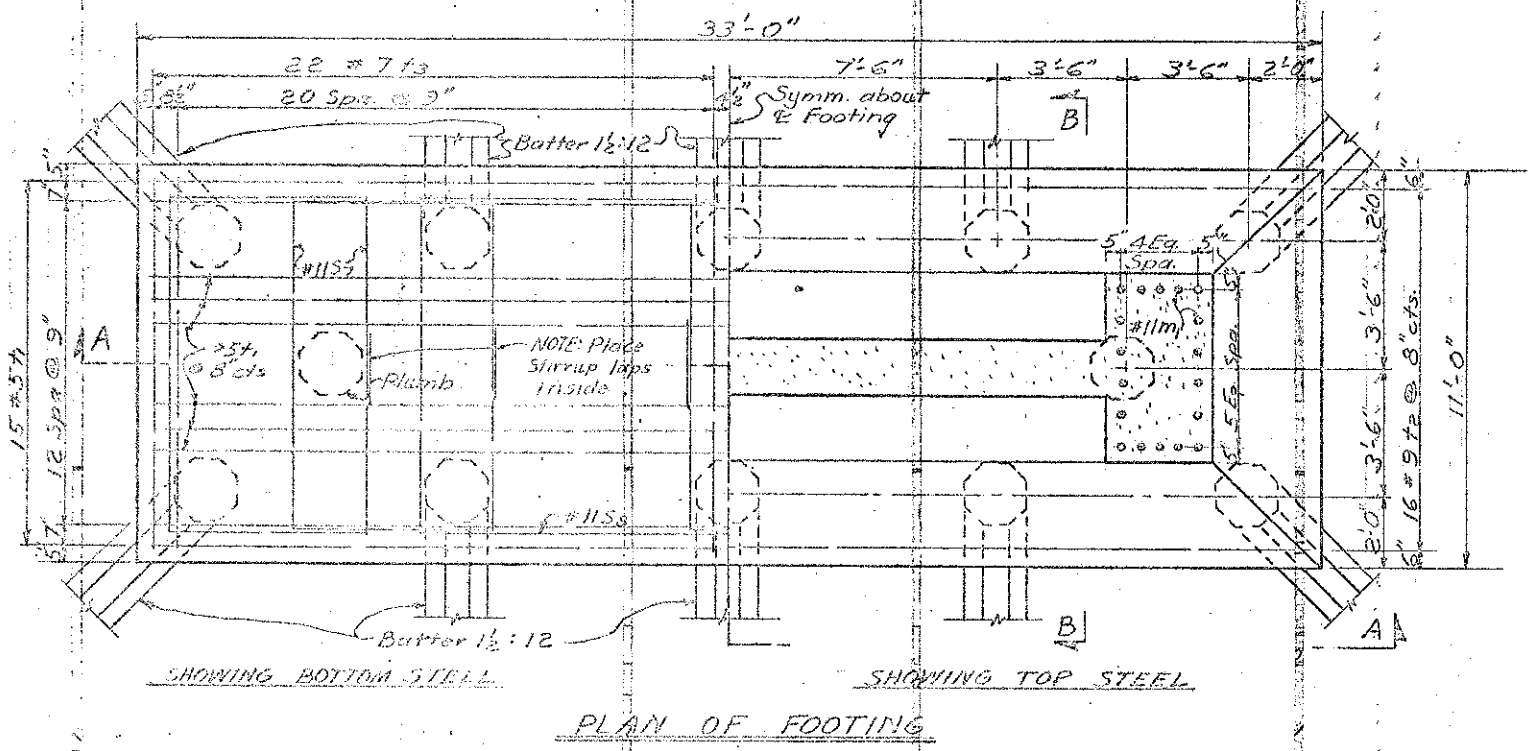


SECTION C-C

PROJECT No. 8.21306
 DARE COUNTY
 STATION: 116+25

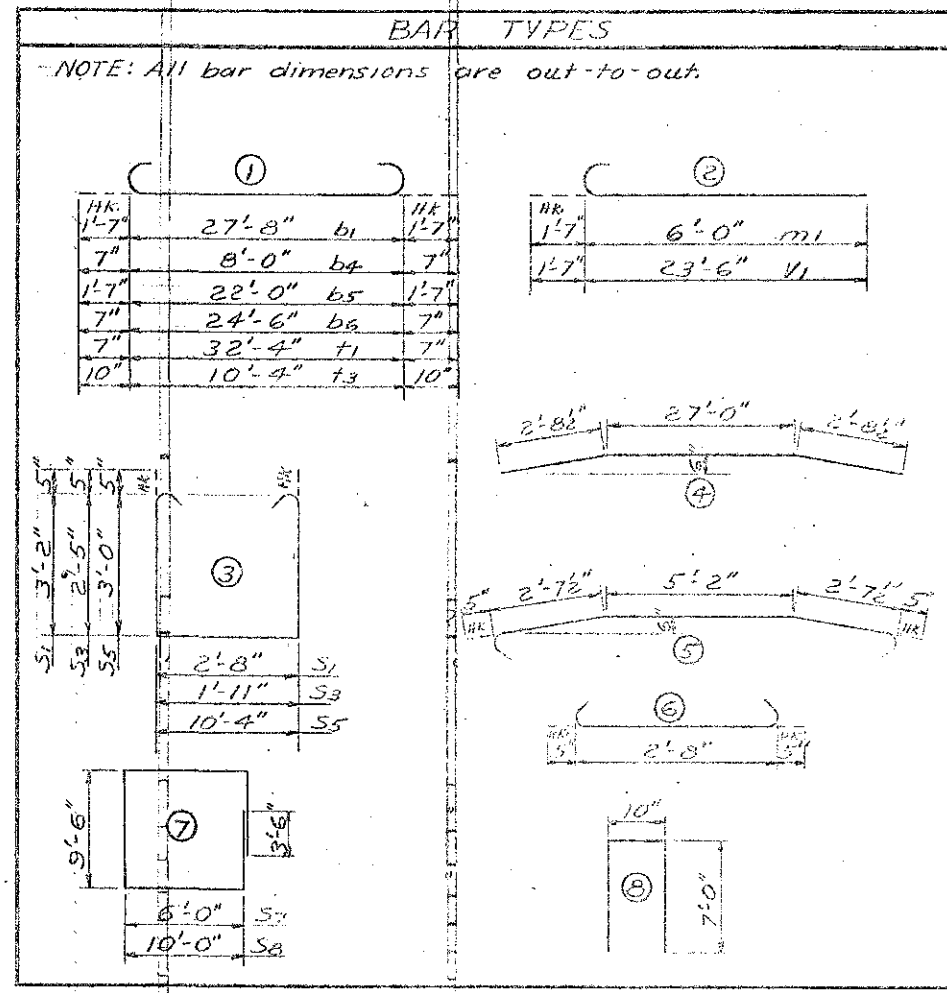
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT NO. 137 OR 152
 NOVEMBER 1961

REVISIONS	DATE	BY



NOTE: Prestressed Cables to extend 2'-0" beyond end of Pile into Footing.

22" Octagonal Prest. Concrete Piles.

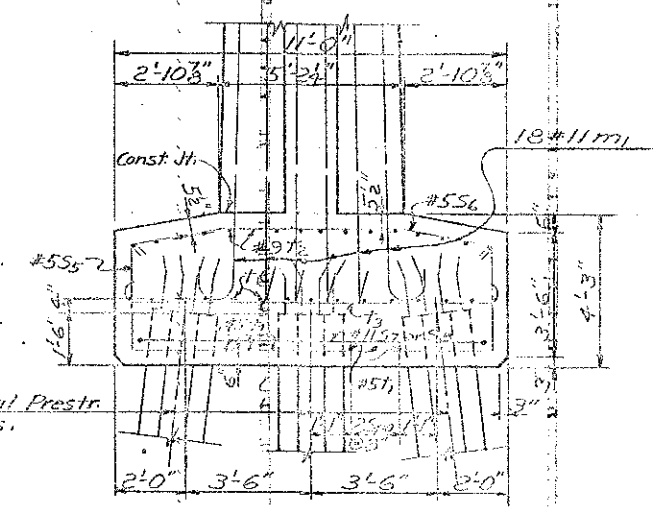


*NOTE: Concrete displaced by pile heads has been deducted.

Concrete Quantities	cu yds.
Pour #1 (1st)	52.0
Pour #2	28.9
Pour #3	21.3
Pour #4	11.1
Total	113.3

BILL OF MATERIAL FOR 1 BENT - 2 PILES					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	7	#11	L	30'-10"	1157
b2	5	#11	Str.	27'-8"	235
b3	4	#4	Str.	27'-8"	76
b4	32	#5	L	9'-2"	307
b5	10	#11	L	25'-2"	137
b6	10	#5	L	25'-2"	268
m1	36	#11	L	7'-7"	450
s1	35	#5	L	9'-10"	119
s2	10	#5	L	3'-6"	37
s3	11	#5	L	11'-11"	115
s4	19	#5	L	14'-10"	155
s5	22	#5	L	17'-2"	202
s6	22	#5	L	11'-2"	133
s7	4	#11	L	2'-8"	115
s8	2	#11	L	10'-0"	115
t1	21	#5	L	7'-0"	115
t2	21	#5	L	7'-0"	115
t3	21	#5	L	7'-0"	115
v1	36	#11	L	23'-6"	137
v2	35	#11	Str.	27'-8"	235

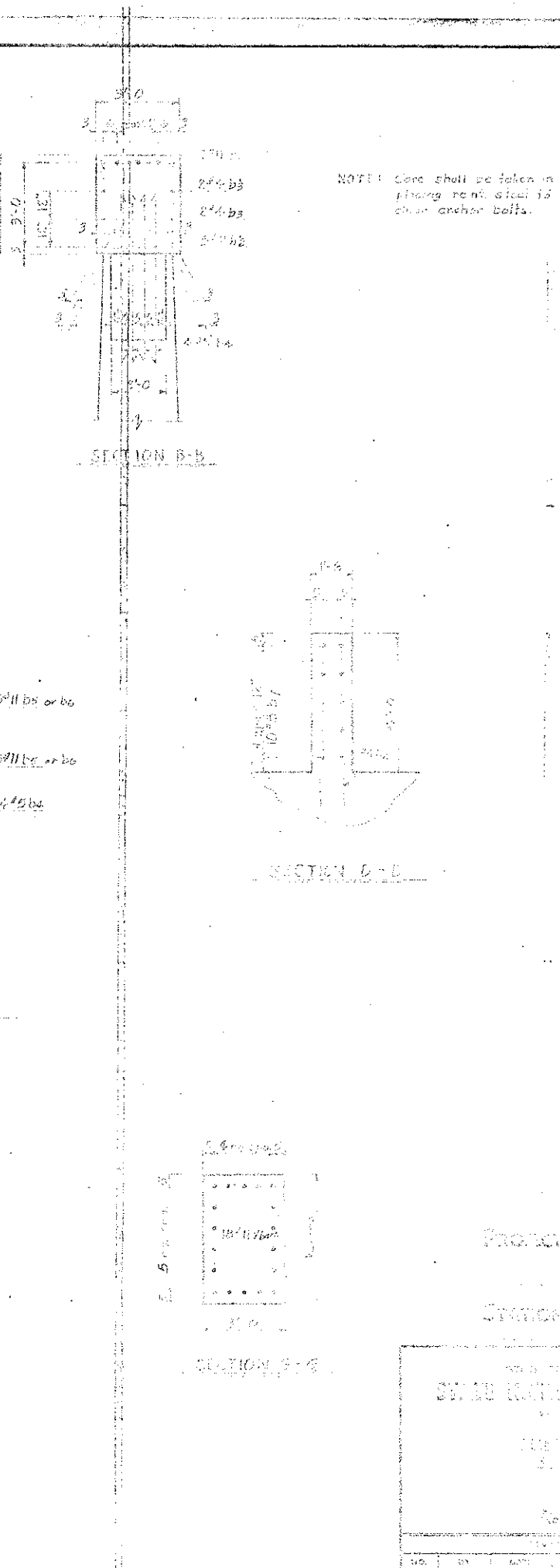
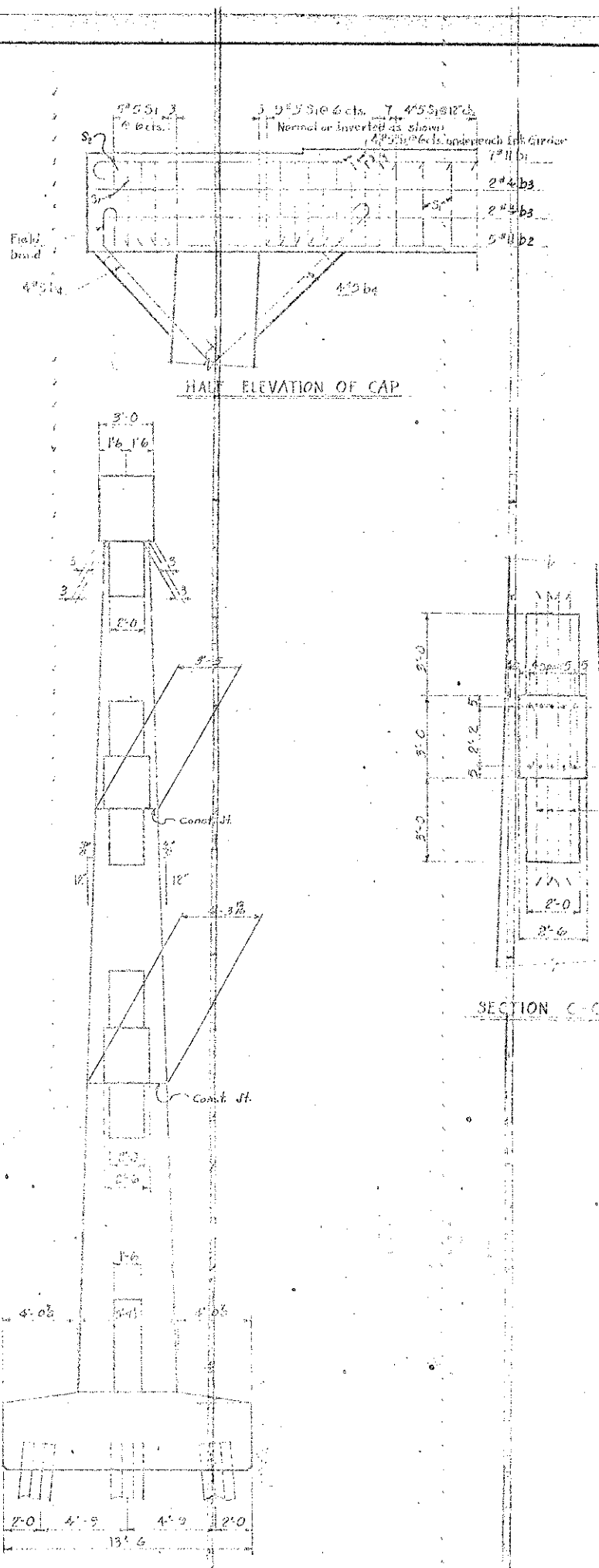
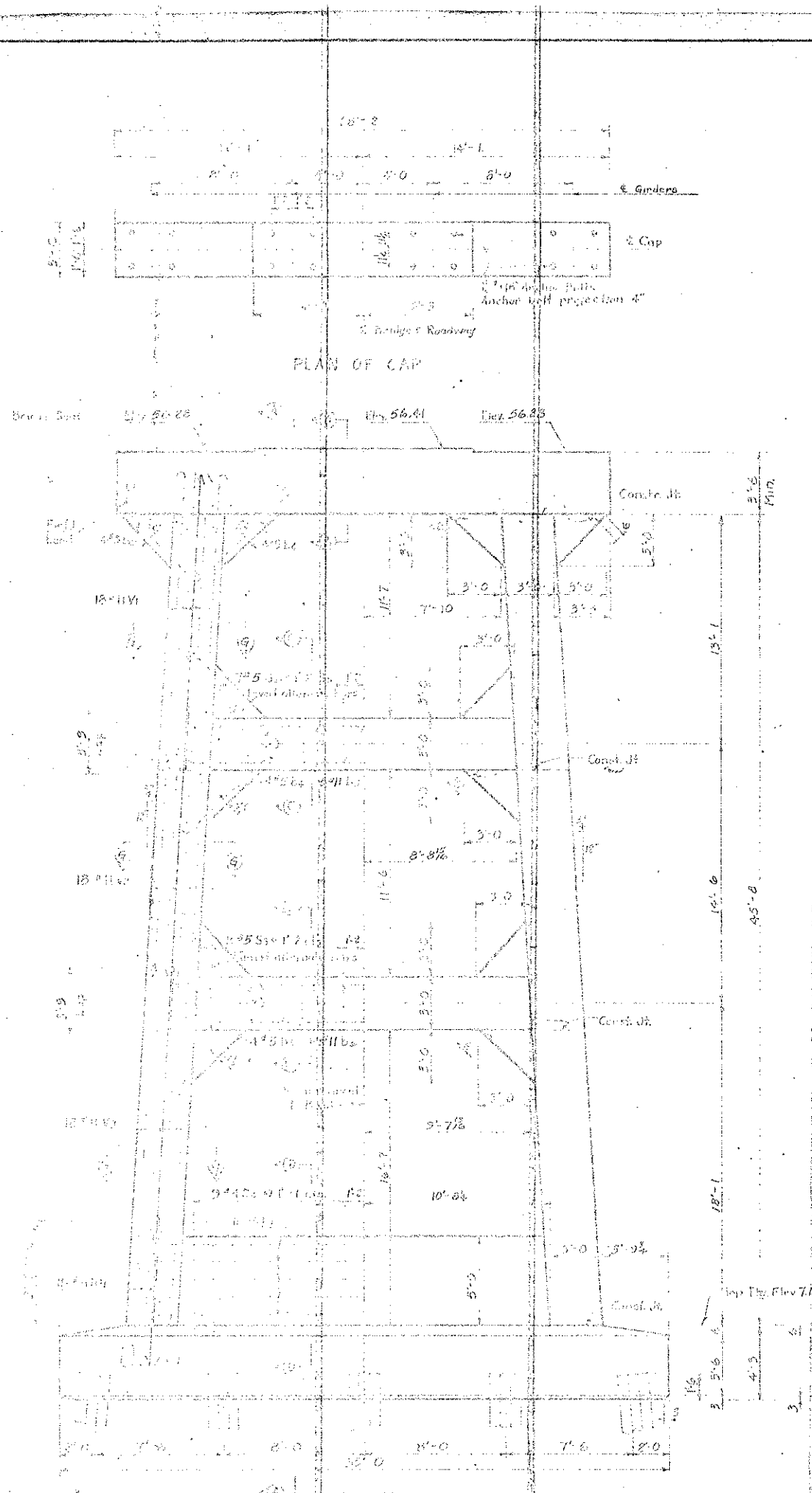
Reinforcing Steel - 11/4"
Class A Concrete - 113.3 cu yds.
22" Oct. Prest. Concrete Piles - 2
22" Oct. Prest. Concrete Piles - 2
22" Oct. Prest. Concrete Piles - 2
22" Oct. Prest. Concrete Piles - 2
22" Oct. Prest. Concrete Piles - 2



PROJECT NO. 2-2130
DARE COUNTY
STATION: 116+25
SHEET 2 OF 2

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUBSTRUCTURE
BENT 101ST CR 152
NOVEMBER 1961

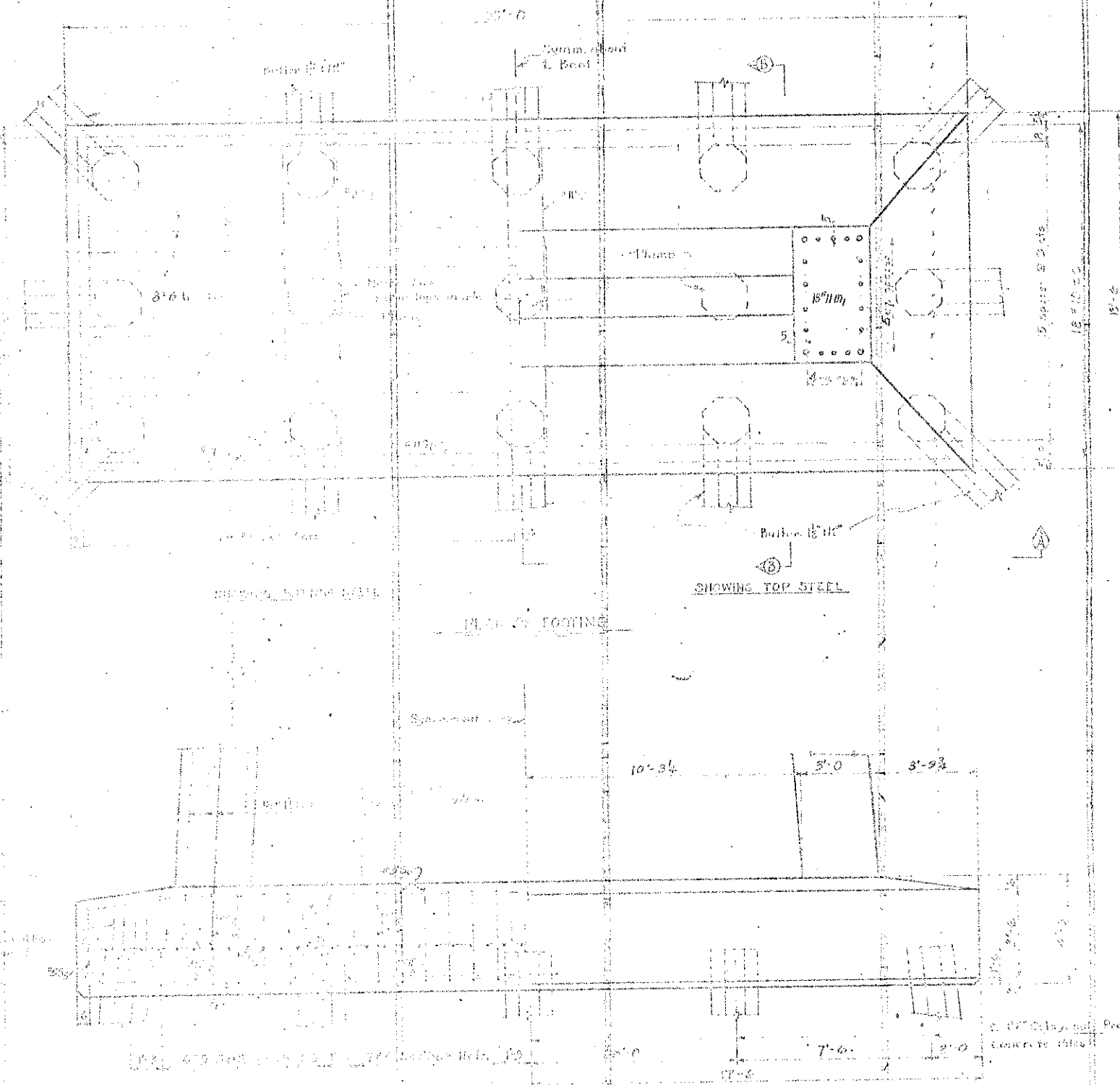
FED. ROAD DIST. NO.	STATE	PROJECT NO.
9	N.C.	621006
P.A. PROJECT 5-1-177		



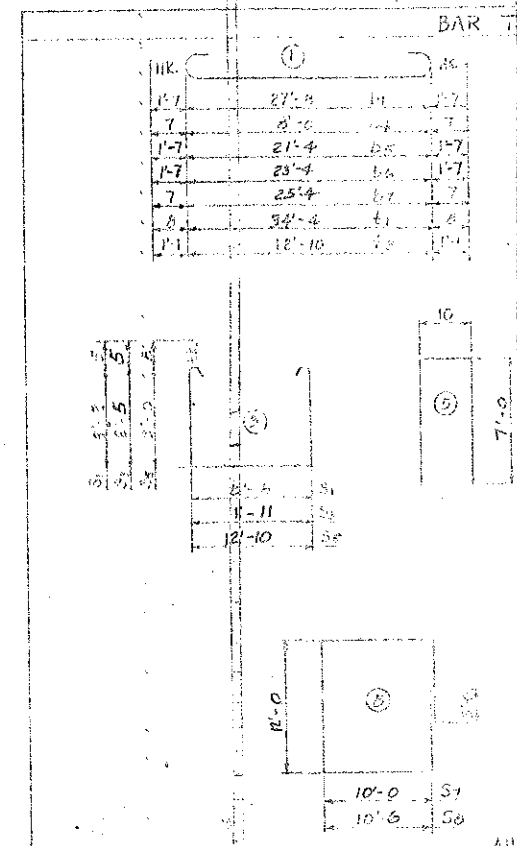
Project No. _____
 _____ County
 Grade _____

STATE DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 November 1931

NO.	BY	DATE	BY	DATE



SECTION A-A



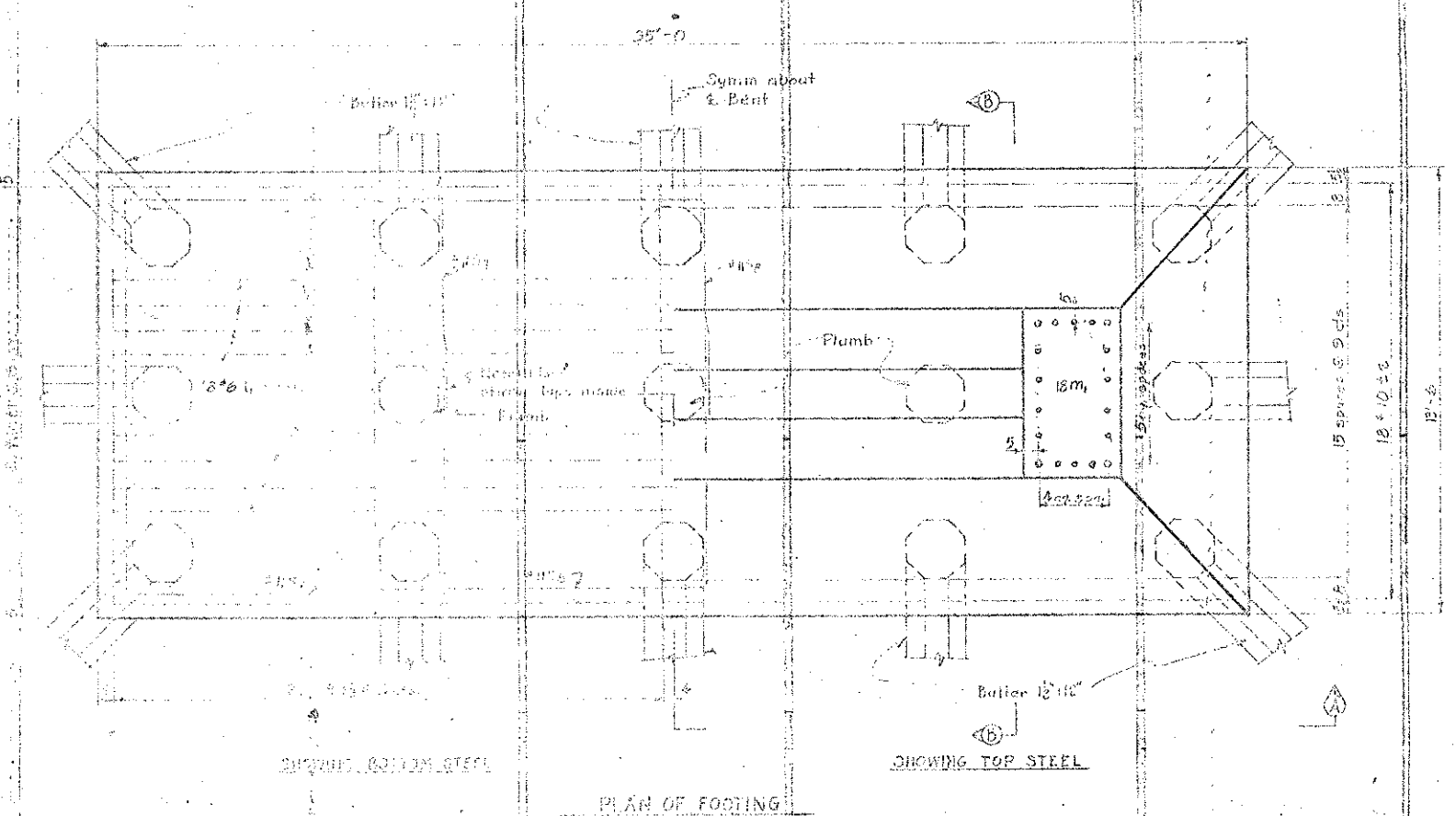
SECTION B-B

BILL OF MATERIAL					
FOR	AGENT	2	Req	Weight	
1	27	14	1	147.0	147.0
2	4	4	1	32.0	32.0
3	14	14	1	299.8	299.8
4	14	14	1	324.8	324.8
5	14	14	1	324.8	324.8
6	4	4	1	129.6	129.6
7	14	14	1	168.0	168.0
8	4	4	1	129.6	129.6
9	14	14	1	168.0	168.0
10	14	14	1	168.0	168.0
11	14	14	1	168.0	168.0
12	14	14	1	168.0	168.0
13	14	14	1	168.0	168.0
14	14	14	1	168.0	168.0
15	14	14	1	168.0	168.0
16	14	14	1	168.0	168.0
17	14	14	1	168.0	168.0
18	14	14	1	168.0	168.0
19	14	14	1	168.0	168.0
20	14	14	1	168.0	168.0
21	14	14	1	168.0	168.0
22	14	14	1	168.0	168.0
23	14	14	1	168.0	168.0
24	14	14	1	168.0	168.0
25	14	14	1	168.0	168.0
26	14	14	1	168.0	168.0
27	14	14	1	168.0	168.0
28	14	14	1	168.0	168.0
29	14	14	1	168.0	168.0
30	14	14	1	168.0	168.0
31	14	14	1	168.0	168.0
32	14	14	1	168.0	168.0
33	14	14	1	168.0	168.0
34	14	14	1	168.0	168.0
35	14	14	1	168.0	168.0
36	14	14	1	168.0	168.0
37	14	14	1	168.0	168.0
38	14	14	1	168.0	168.0
39	14	14	1	168.0	168.0
40	14	14	1	168.0	168.0
41	14	14	1	168.0	168.0
42	14	14	1	168.0	168.0
43	14	14	1	168.0	168.0
44	14	14	1	168.0	168.0
45	14	14	1	168.0	168.0
46	14	14	1	168.0	168.0
47	14	14	1	168.0	168.0
48	14	14	1	168.0	168.0
49	14	14	1	168.0	168.0
50	14	14	1	168.0	168.0
51	14	14	1	168.0	168.0
52	14	14	1	168.0	168.0
53	14	14	1	168.0	168.0
54	14	14	1	168.0	168.0
55	14	14	1	168.0	168.0
56	14	14	1	168.0	168.0
57	14	14	1	168.0	168.0
58	14	14	1	168.0	168.0
59	14	14	1	168.0	168.0
60	14	14	1	168.0	168.0
61	14	14	1	168.0	168.0
62	14	14	1	168.0	168.0
63	14	14	1	168.0	168.0
64	14	14	1	168.0	168.0
65	14	14	1	168.0	168.0
66	14	14	1	168.0	168.0
67	14	14	1	168.0	168.0
68	14	14	1	168.0	168.0
69	14	14	1	168.0	168.0
70	14	14	1	168.0	168.0
71	14	14	1	168.0	168.0
72	14	14	1	168.0	168.0
73	14	14	1	168.0	168.0
74	14	14	1	168.0	168.0
75	14	14	1	168.0	168.0
76	14	14	1	168.0	168.0
77	14	14	1	168.0	168.0
78	14	14	1	168.0	168.0
79	14	14	1	168.0	168.0
80	14	14	1	168.0	168.0
81	14	14	1	168.0	168.0
82	14	14	1	168.0	168.0
83	14	14	1	168.0	168.0
84	14	14	1	168.0	168.0
85	14	14	1	168.0	168.0
86	14	14	1	168.0	168.0
87	14	14	1	168.0	168.0
88	14	14	1	168.0	168.0
89	14	14	1	168.0	168.0
90	14	14	1	168.0	168.0
91	14	14	1	168.0	168.0
92	14	14	1	168.0	168.0
93	14	14	1	168.0	168.0
94	14	14	1	168.0	168.0
95	14	14	1	168.0	168.0
96	14	14	1	168.0	168.0
97	14	14	1	168.0	168.0
98	14	14	1	168.0	168.0
99	14	14	1	168.0	168.0
100	14	14	1	168.0	168.0

Project No. 2477-3
 COUNTY
 STATION

DATE	BY	CHKD	APPD

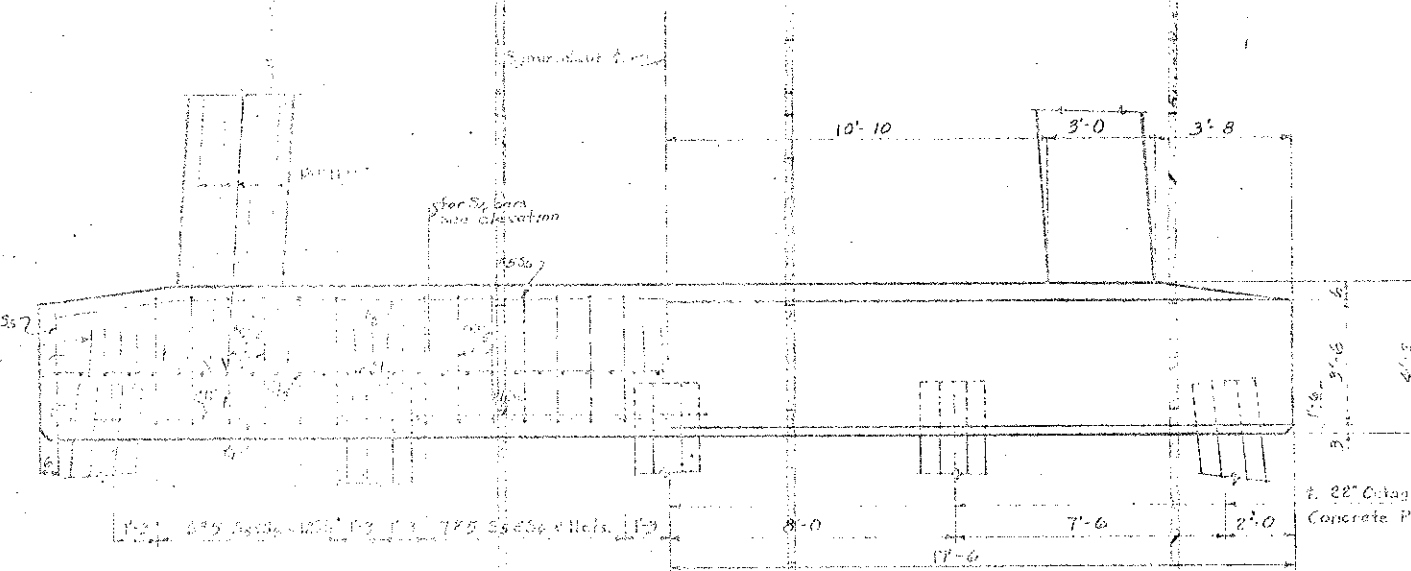
FED. ROAD DIV. NO.	STATE	PROJECT NO.
5	N.C.	82-1504
P.A. PROJECT 5-1201-71		



SHOWING BOTTOM STEEL

SHOWING TOP STEEL

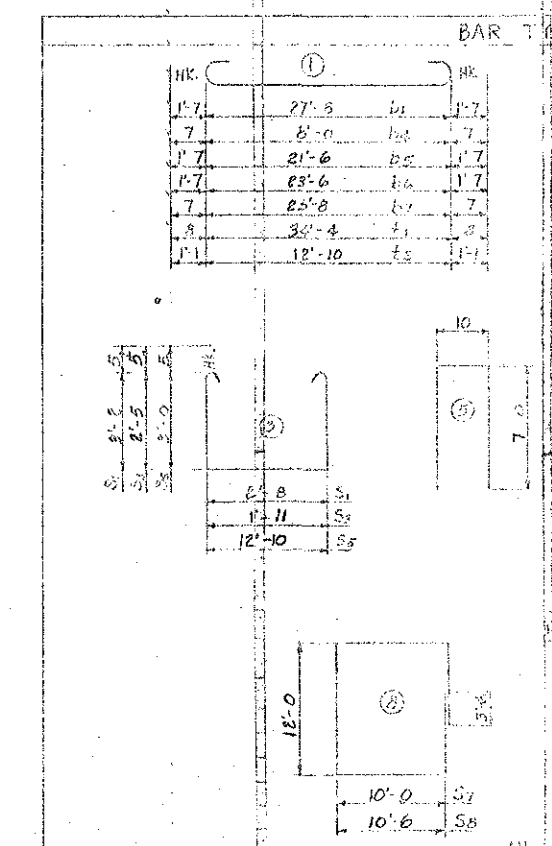
PLAN OF FOOTING



SECTION A-A

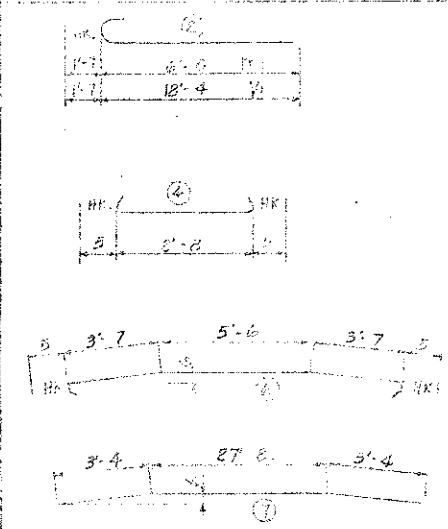
NOTE: Prestressed piles placed 2'-0" inward and 4" pile in footing.

2 22" Octagonal Prestressed Concrete Piles



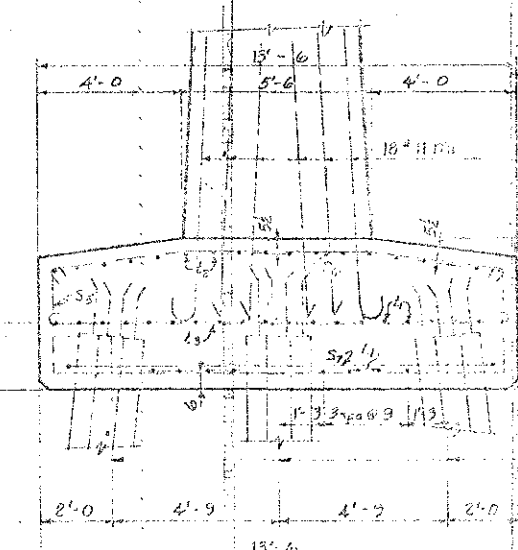
BAR TYPES

HR.	①	HR.
1-7	27'-6	1-7
7	5'-0	1-7
1-7	21'-6	1-7
1-7	25'-6	1-7
7	25'-8	7
8	30'-4	8
1-1	12'-10	1-1



All bar dimensions are out to out

* Net Concrete depth by pile heads has been assumed.



SECTION B-B

2 22" Octagonal Prestressed Concrete Piles

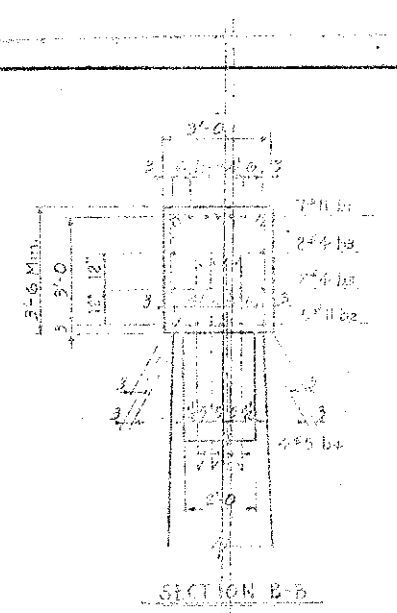
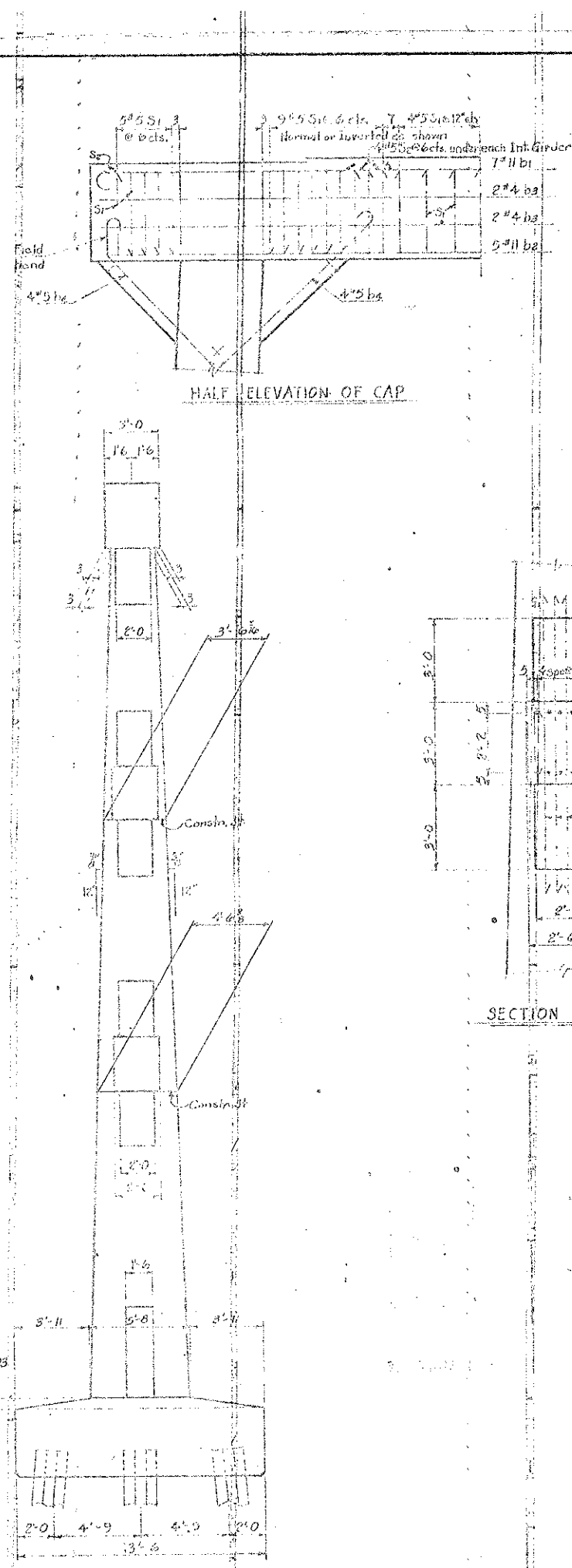
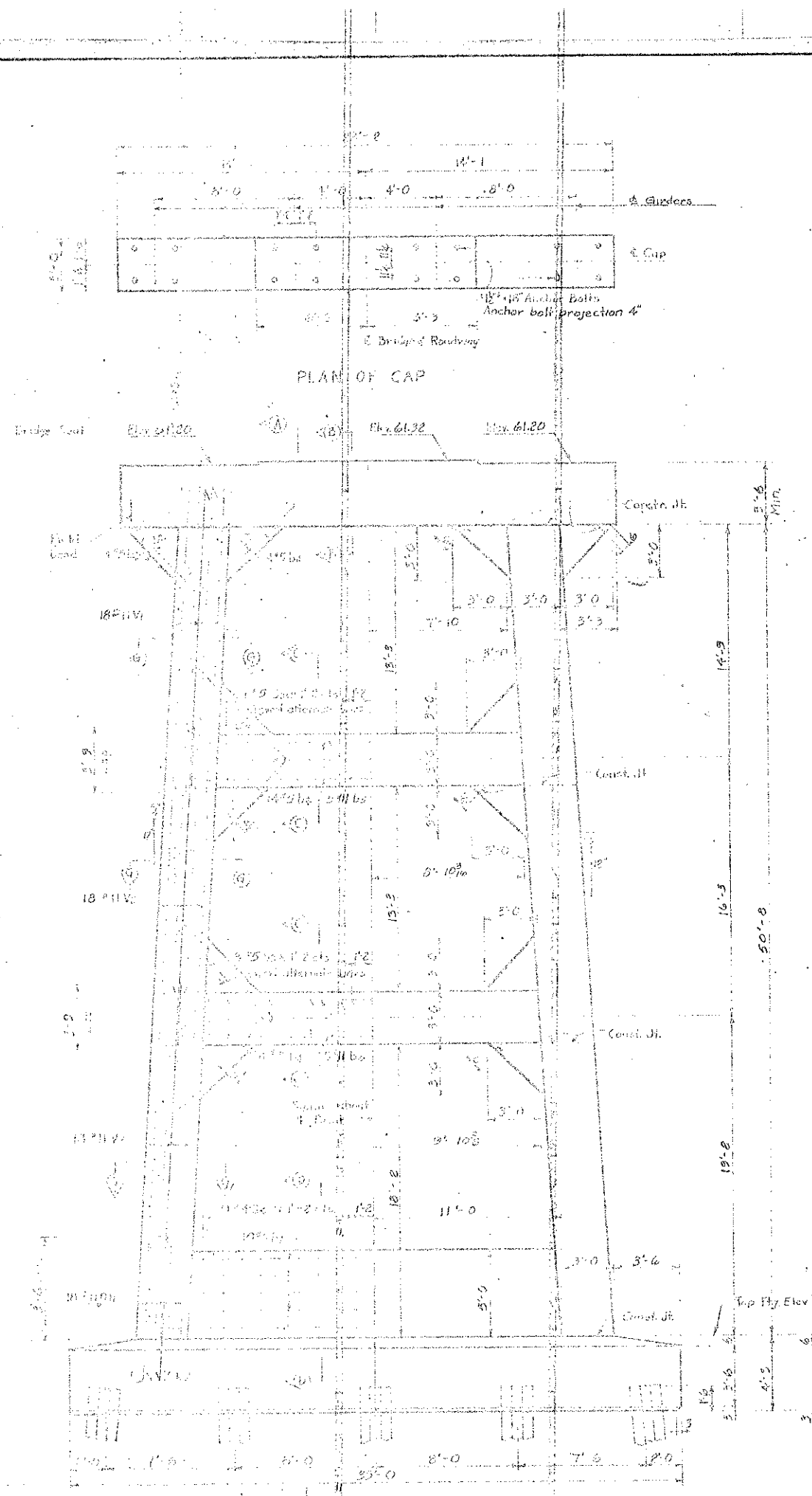
BILL OF MATERIAL					
Bar	Qty	Size	Length	Weight	Remarks
b1	7	#11	27'-6	1411	
b2	4	#4	27'-6	74	
b3	5	#11	27'-6	74	
b4	5	#5	27'-6	222	
b5	10	#11	24'-0	1311	
b6	5	#11	20'-8	1171	
b7	10	#5	20'-10	280	
b8	10	#11	7'-7	1102	
b9	2	#7	9'-10	359	
b10	10	#7	5'-0	37	
b11	10	#5	7'-7	253	
b12	2	#7	14'-10	168	
b13	2	#7	17'-8	574	
b14	2	#7	13'-6	394	
b15	2	#7	47'-6	505	
b16	2	#7	48'-6	515	
b17	1	#7	35'-5	1000	
b18	1	#7	34'-0	2153	
b19	1	#7	18'-11	161	
b20	1	#7	19'-1	325	
b21	1	#7	21'-1	402	

PROJECT NO. 82-1504
 COUNTY
 STATION 12+8
 Sheet 2 of 2

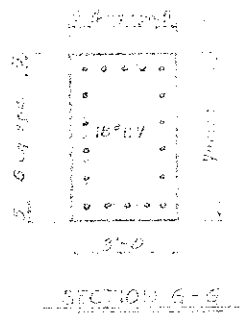
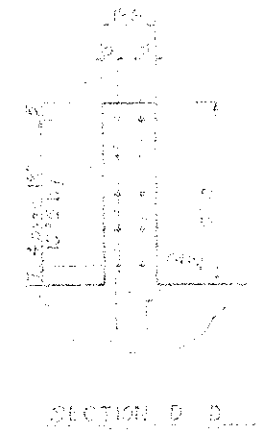
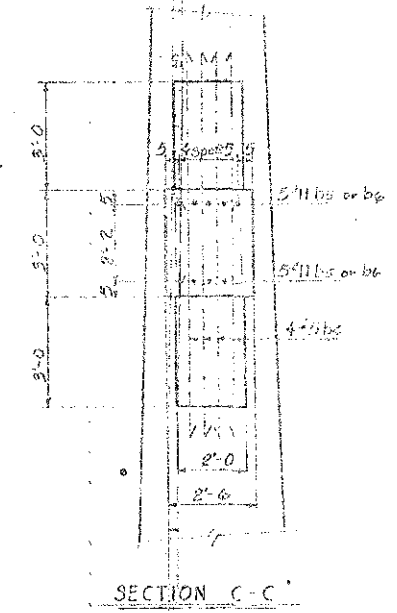
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 Raleigh
 CONSTRUCTION
 BENT NO. 100 or 150
 1954

NO.	DATE	BY	DATE
1			

FED. ROAD DIST. NO.	STATE	PROJECT NO.
	N.C.	B.21503
S. A. PROJECT 5-122-9		



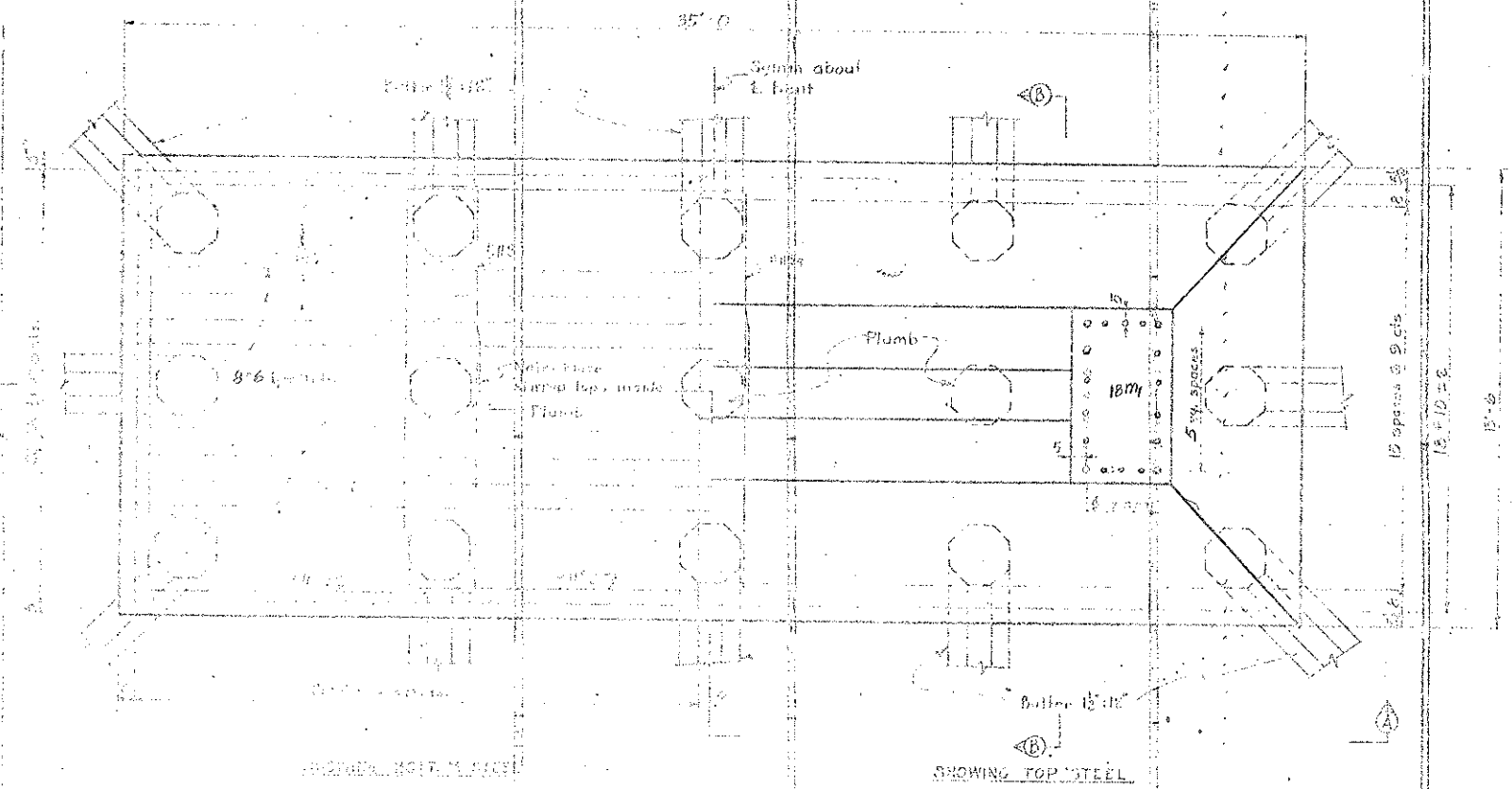
NOTE: Care shall be taken in placing reinf. steel to clear anchor bolts.



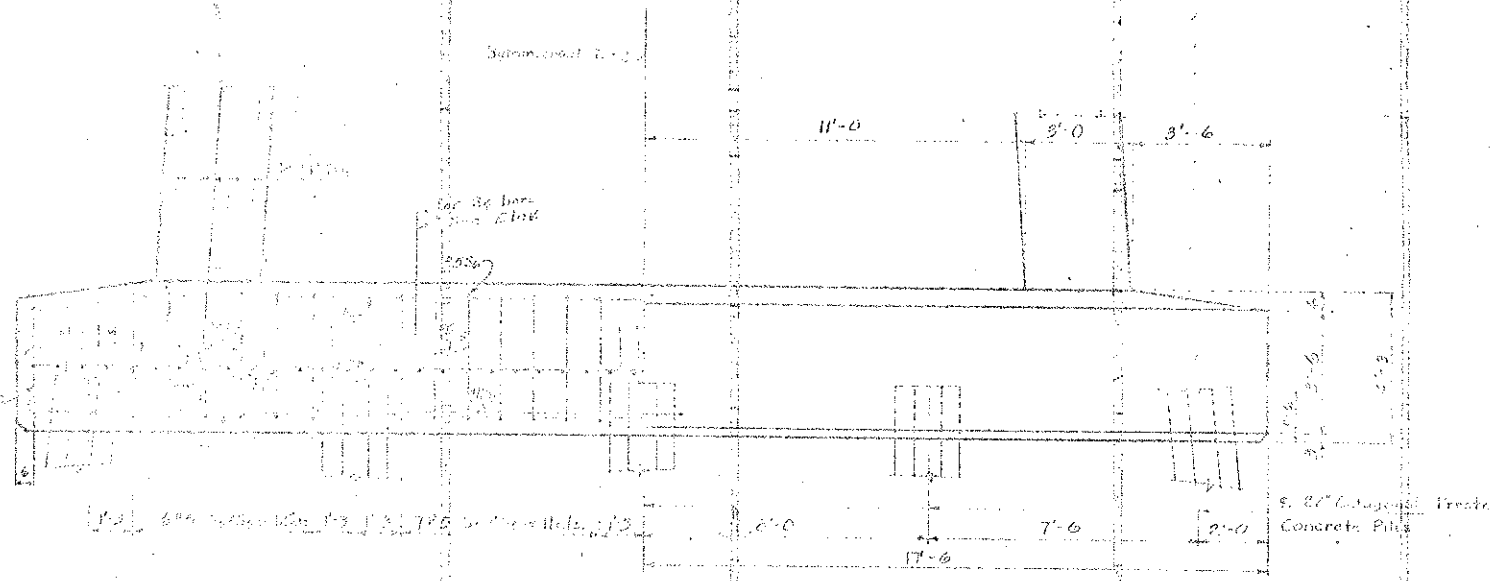
Project 10-10-10
 Station 10-10

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 DIVISION OF HIGHWAYS
 PROJECT NO. 10-10-10
 DATE 1961

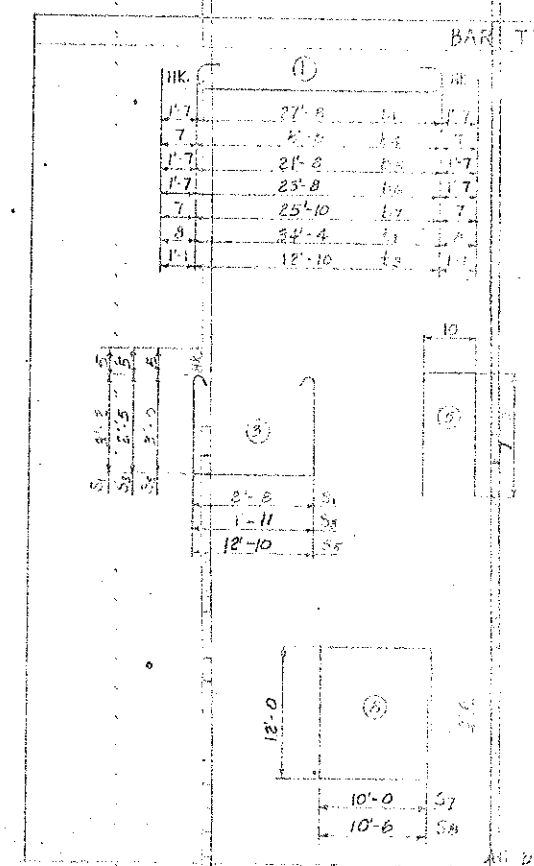
NO.	BY	DATE	REV.	BY	DATE
1					



PLAN OF FOOTING



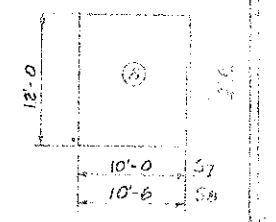
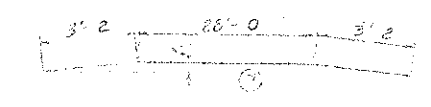
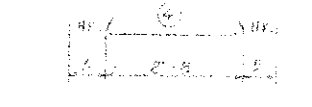
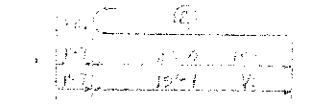
SECTION A-A



SECTION B-B

BAR TYPES

NO.	SIZE	TYPE	QUANTITY
1	1-7	1	1
2	7	1	1
3	1-7	1	1
4	7	1	1
5	8	1	1
6	1-1	1	1



BILL OF MATERIAL

NO.	SIZE	TYPE	QUANTITY	WEIGHT
1	1-7	1	1	11.7
2	7	1	1	11.7
3	1-7	1	1	11.7
4	7	1	1	11.7
5	8	1	1	14.7
6	1-1	1	1	11.7

NOTE: Showings of steel in footings to be around and at face of footing.

NOTE: Dimensions are out to out. All concrete dimensions to be made by field.

NOTE: Showings of steel in concrete piles.

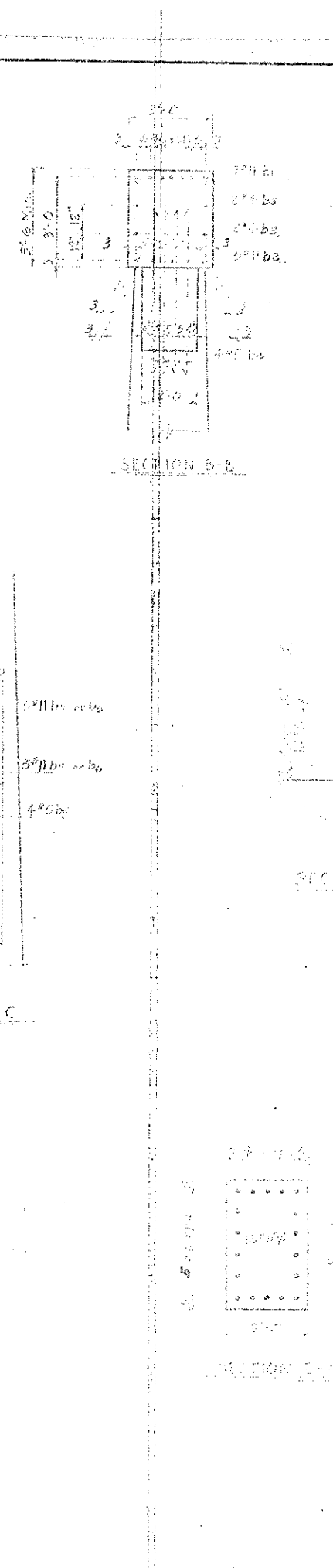
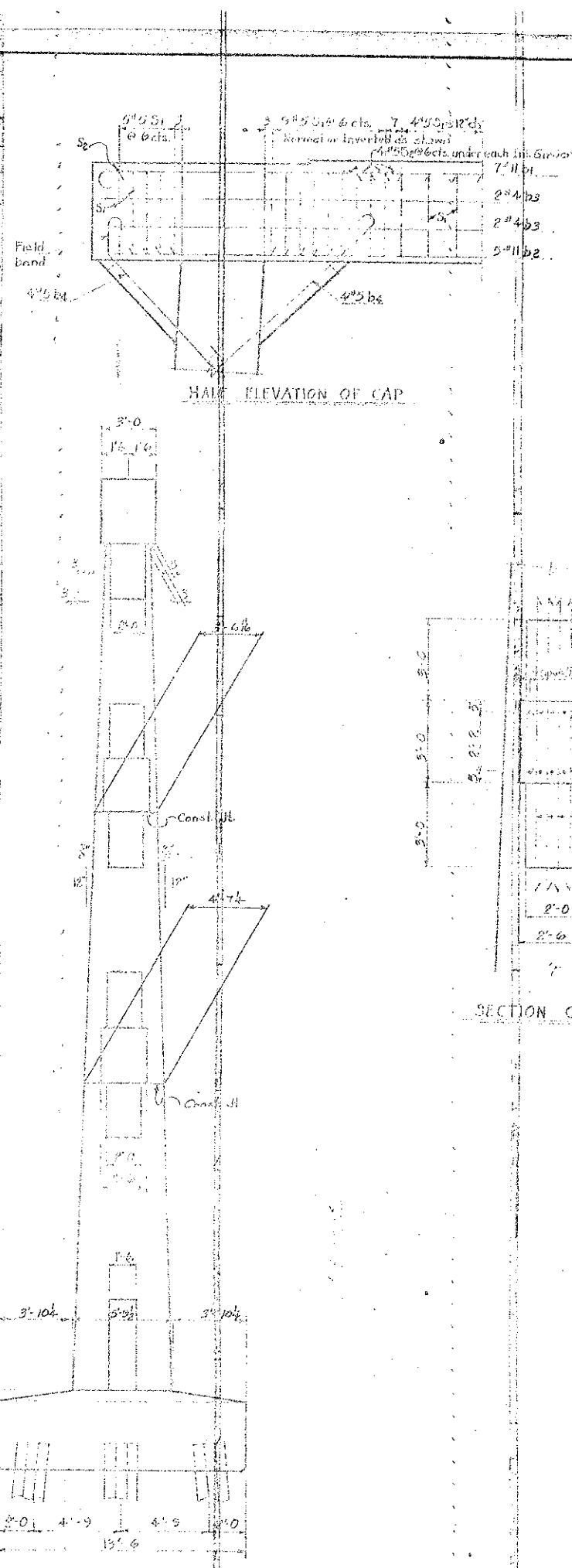
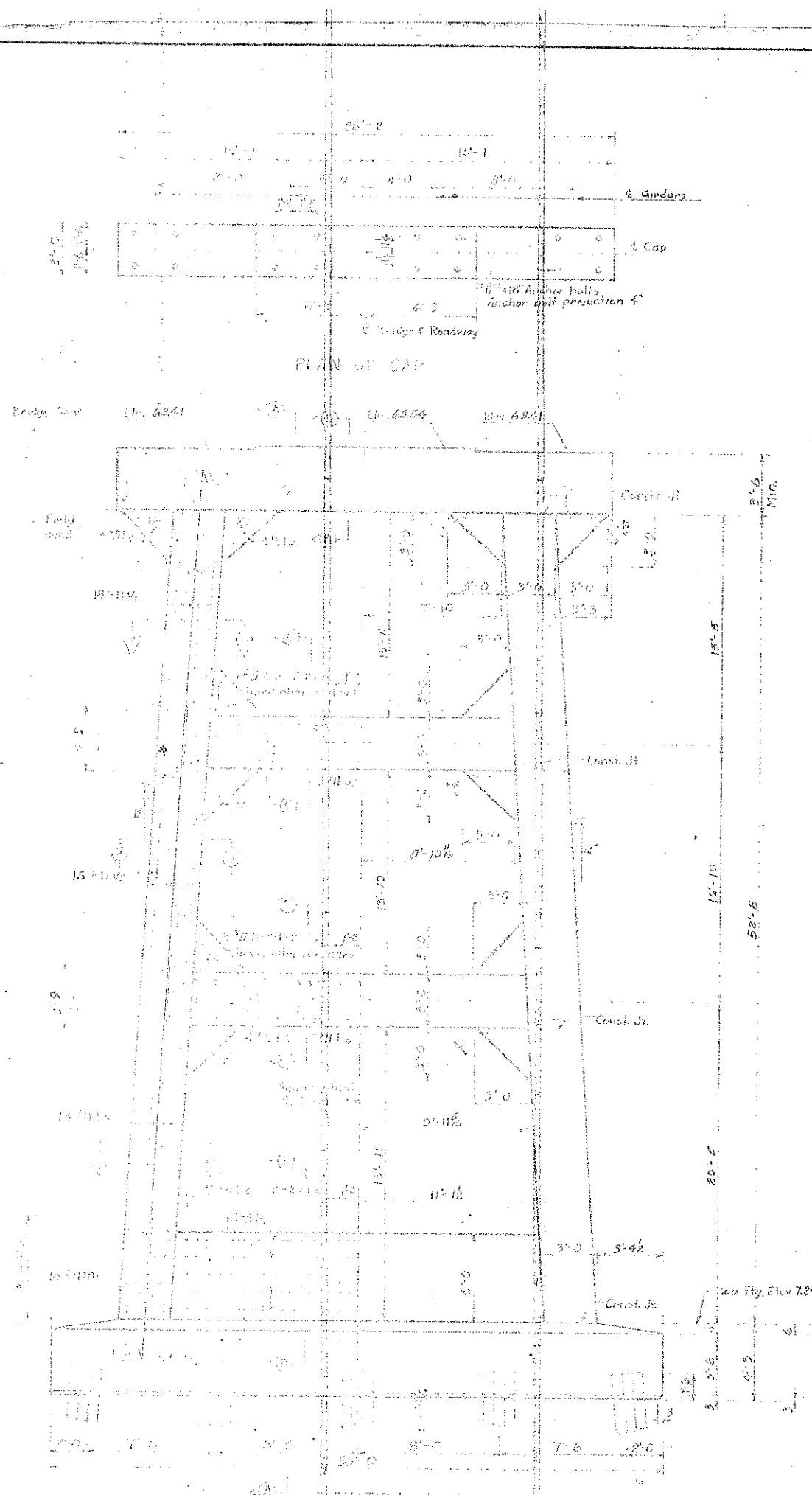
PROJECT NO. 82-1300

STATION: 1+00

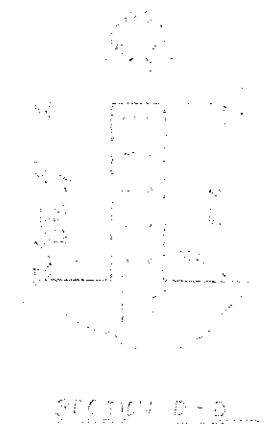
STATE OF NORTH CAROLINA
STATE ENGINEER COMMISSION
REGISTERED

DATE: 10-1-48

FED. ROAD DIST. NO.	STATE	PROJECT NO.
3	N.C.	221306
F.R.A. PROJECT 5-1-127		



NOTE: Care shall be taken in placing reinf steel to clear anchor bolts

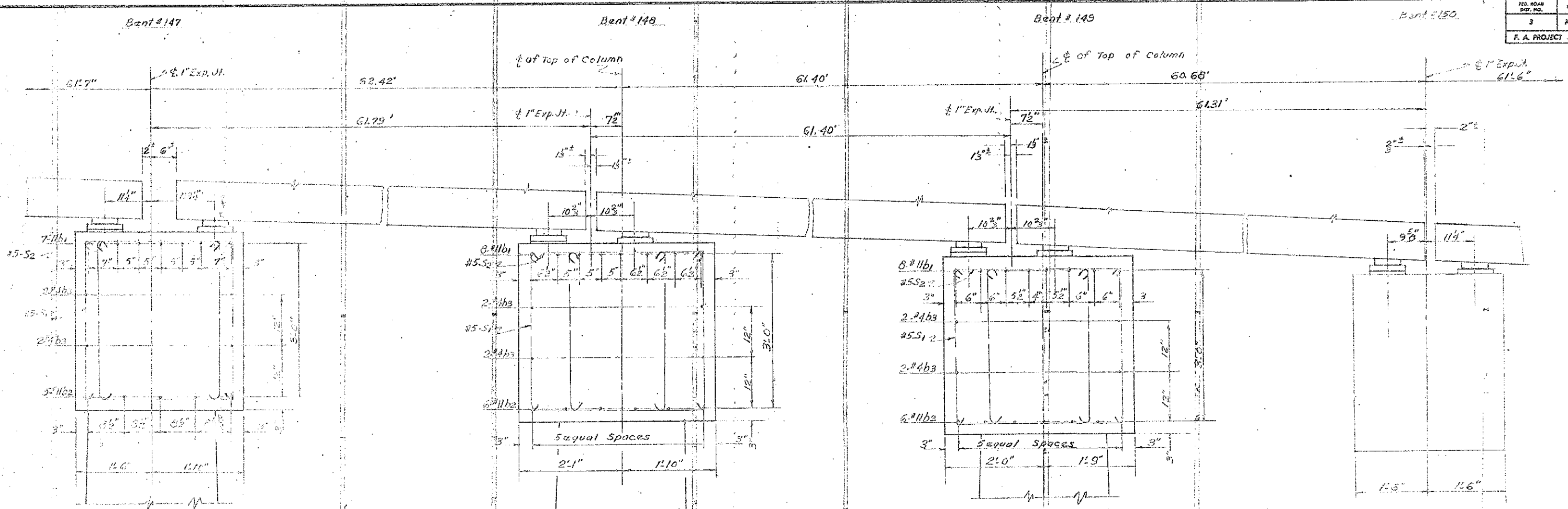


PROJECT NO. 221306
 STATE OF NORTH CAROLINA
 COUNTY
 STATION 1+00.00
 DATE 1951

STATE ENGINEER
 STATE HIGHWAY COMMISSION
 DIVISION OF HIGHWAYS
 1951

DATE	BY	SCALE	REVISION

FED. ROAD DIST. NO.	STATE	PROJECT NO.
3	N. C.	521001
F. A. PROJECT S. 1401 (1)		



SECTION THRU BENT CAPS

Note: For Bts. # 147-148 & 149 alternate #5S2 bars from side to side of cap.

	ADDITIONAL CONCRETE
BENT No. 147	1.2 Cu. Yds.
BENT No. 148	3.1 Cu. Yds.
BENT No. 149	2.8 Cu. Yds.

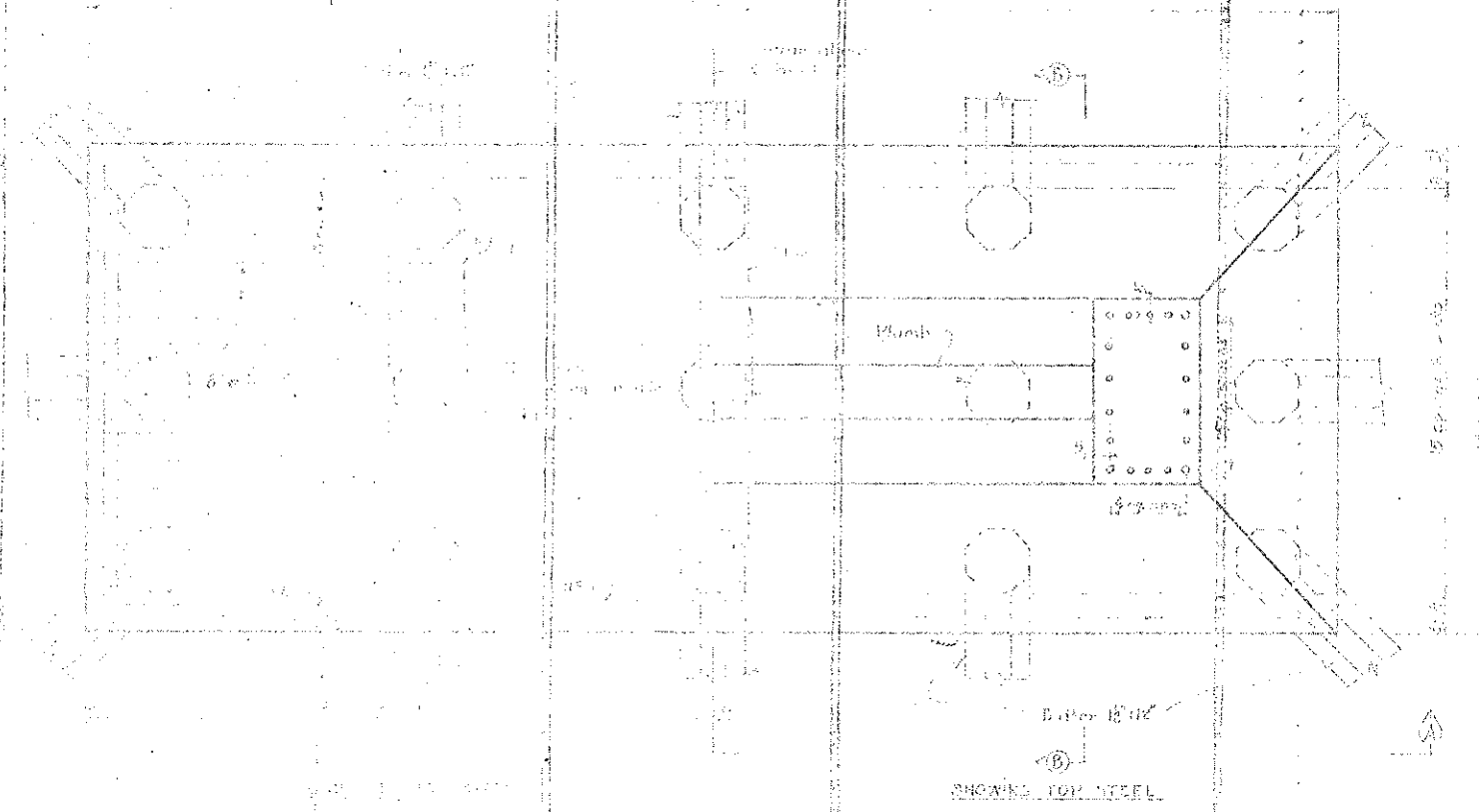
FOR BENTS No. 148 & 149

ADDITIONAL REINFORCING STEEL TO BE ORDERED				
Bar	No.	Size	Length	Weight
#5	1	5/8"	30'-0"	1.2
#5	1	5/8"	27'-0"	1.0
TOTAL WEIGHT				2.2 lbs.

PROJECT No. 83182
 STATE COUNTY
 STATION: 112+15

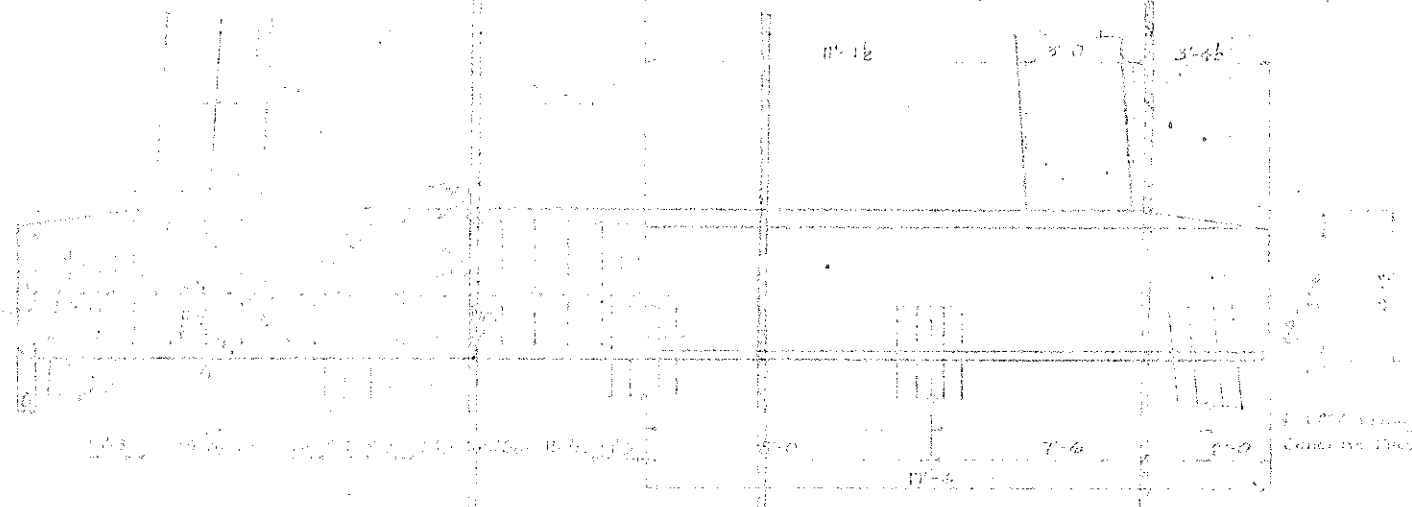
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 REVISION OF BENT CAP
 FOR BENTS NO. 147-148-149

REVISIONS	BY	DATE
1		



PLAN OF FOOTING

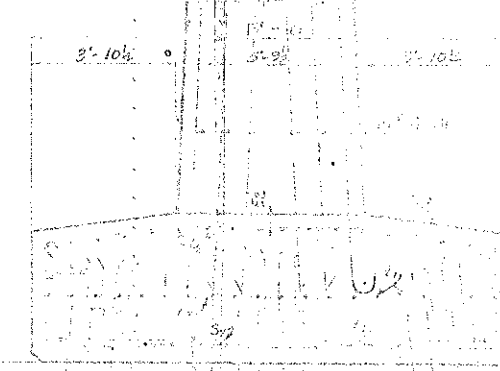
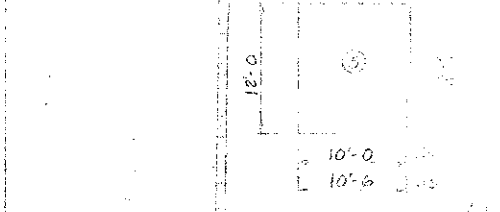
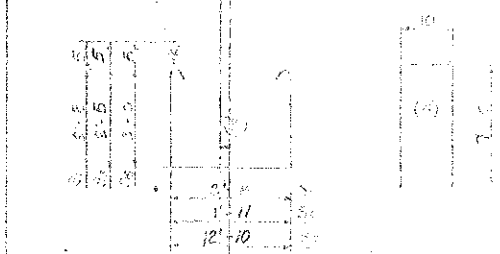
SHOWING TOP STEEL



SECTION B-B

BAR SCHEDULE

NO.	SIZE	LENGTH	NO.	TOTAL LENGTH
1	27-8	10	1	27-8
2	8-0	24	1	8-0
3	21-10	10	1	21-10
4	22-10	10	1	22-10
5	26-3	10	1	26-3
6	35-4	10	1	35-4
7	12-10	10	1	12-10



SECTION E-E

REINFORCEMENT SCHEDULE

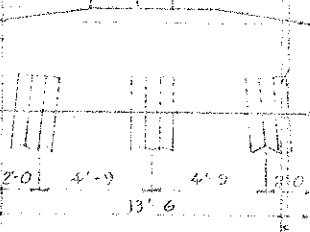
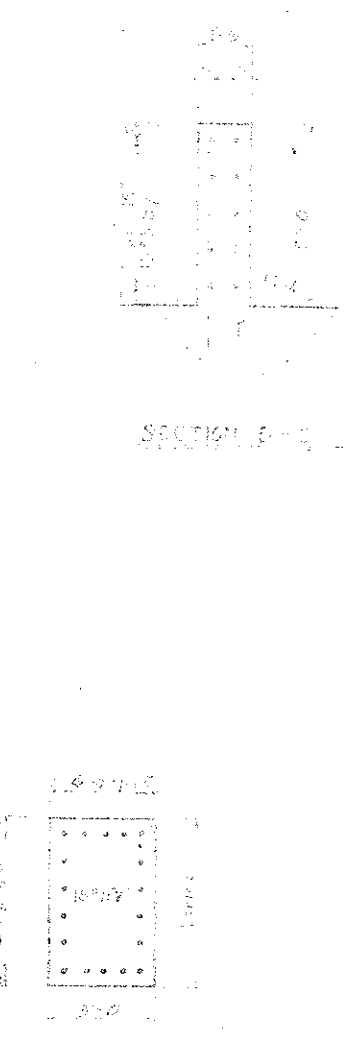
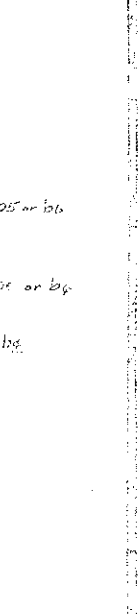
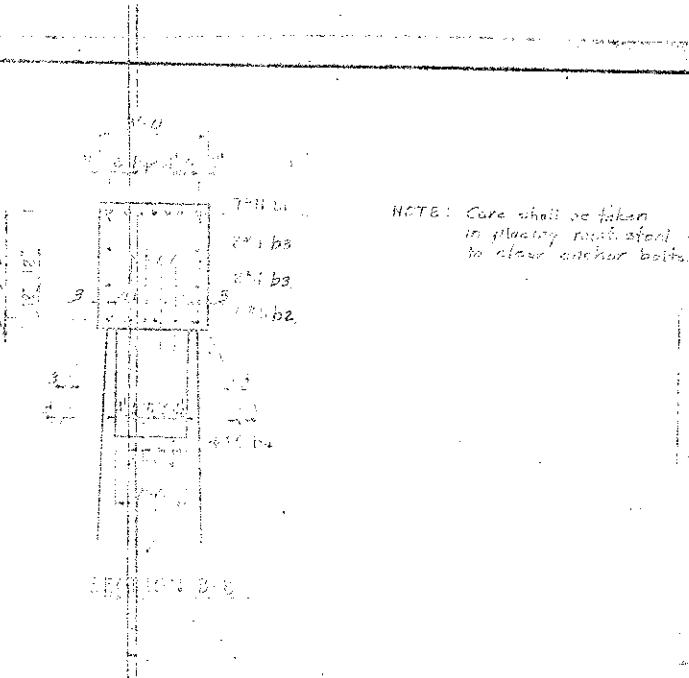
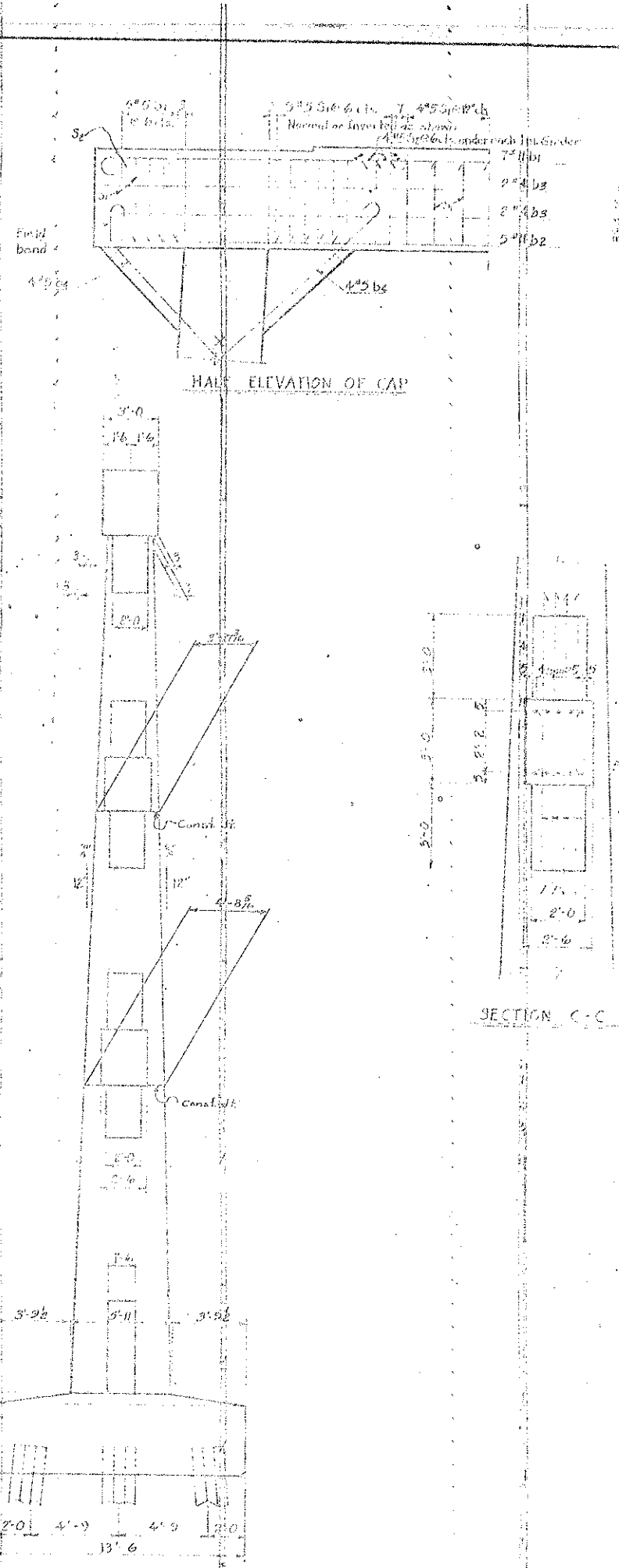
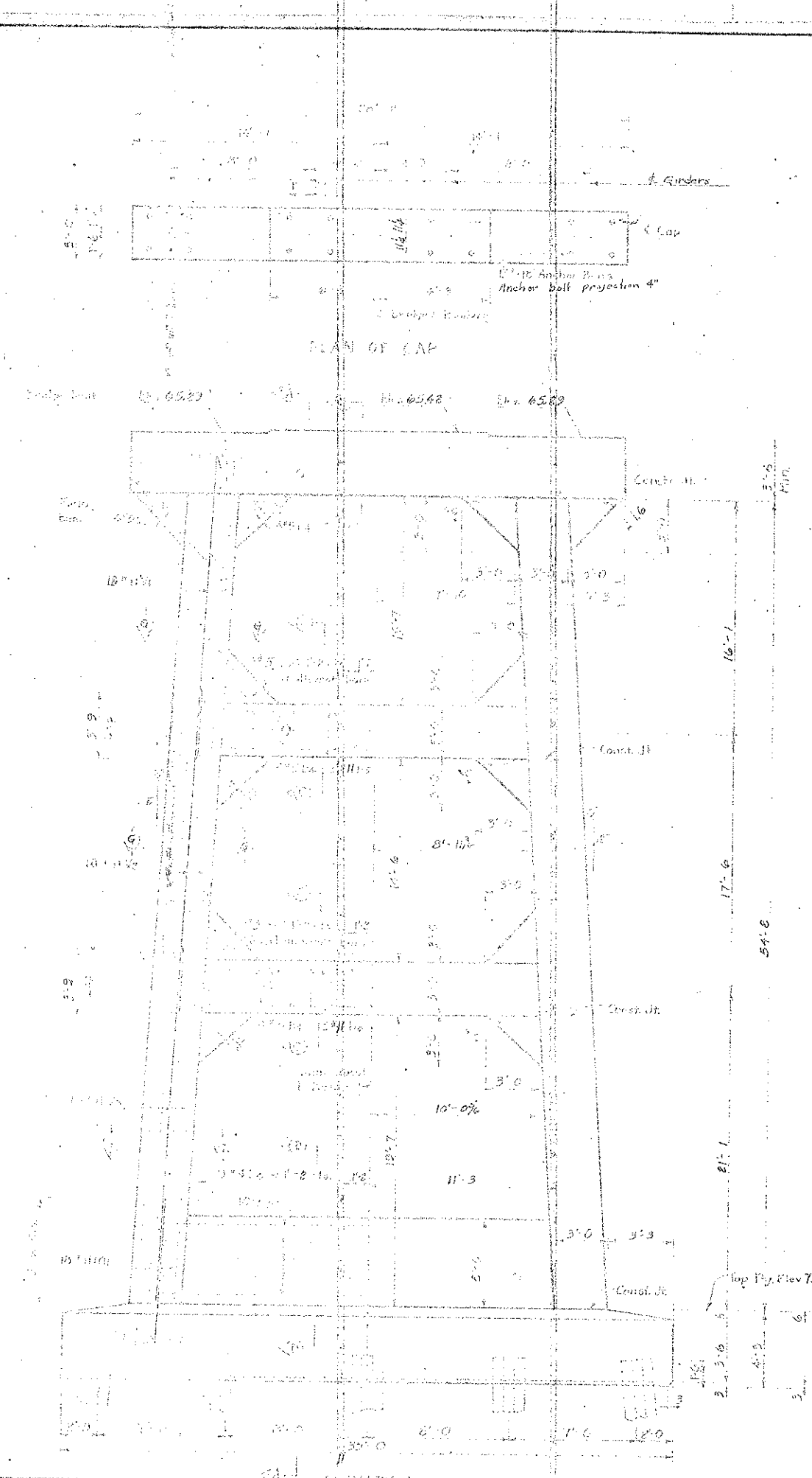
NO.	SIZE	LENGTH	NO.	TOTAL LENGTH
1	27-8	10	1	27-8
2	8-0	24	1	8-0
3	21-10	10	1	21-10
4	22-10	10	1	22-10
5	26-3	10	1	26-3
6	35-4	10	1	35-4
7	12-10	10	1	12-10

APPROVED

DATE

BY

FED. ROAD DIST. NO.	STATE	PROJECT NO.
3	S.C.	021306
S.A. PROJECT 271011		

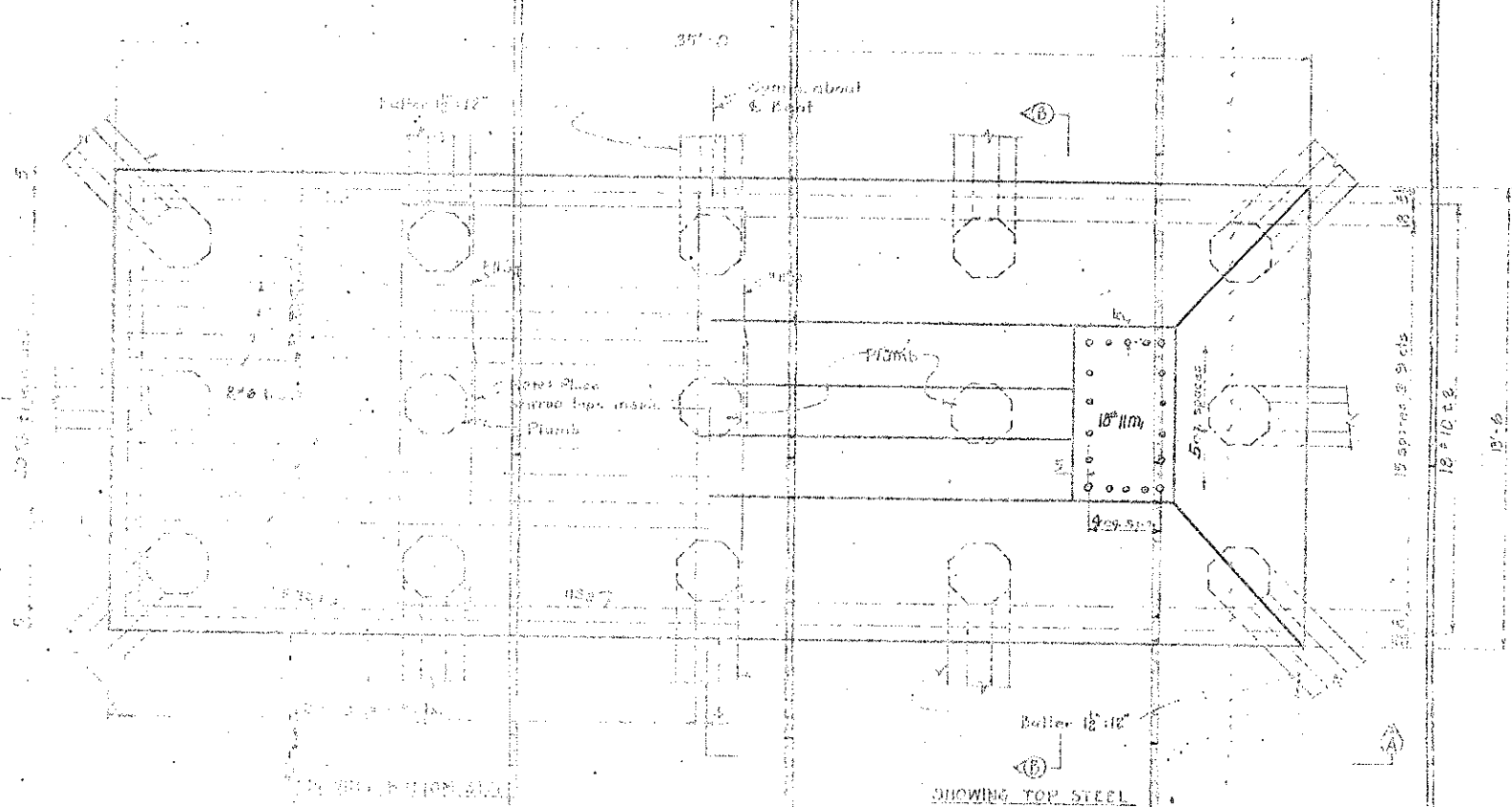


PROJECT NO. 021306
 COUNTY
 STATION
 SHEET NO. 6

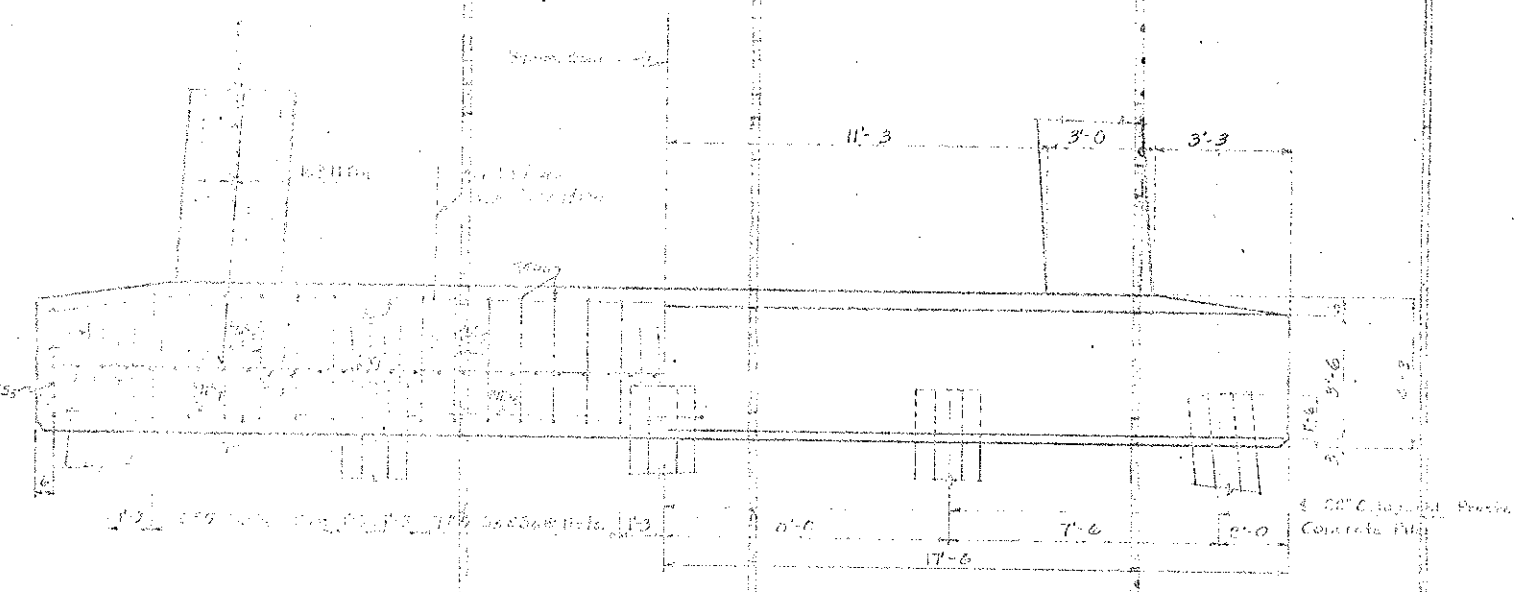
STATE OF SOUTH CAROLINA
 STATE ARCHITECT COMMISSION
 DIVISION OF PUBLIC WORKS

CONSTRUCTION
 1962

FED. ROAD DIST. NO.	STATE	PROJECT NO.
"	N. C.	5-257(1)
TOTAL PROJECT 5-257(1)		



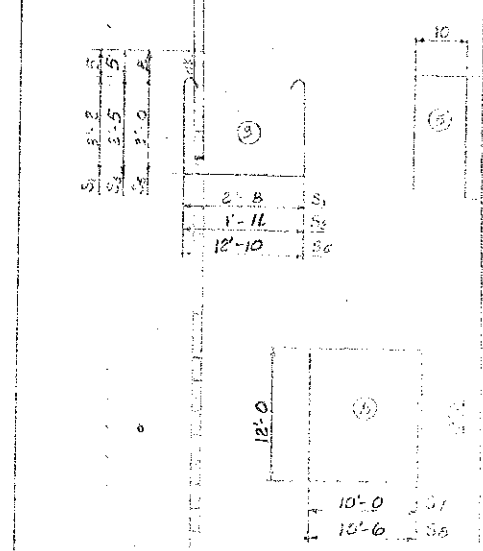
PLAN OF FOOTING



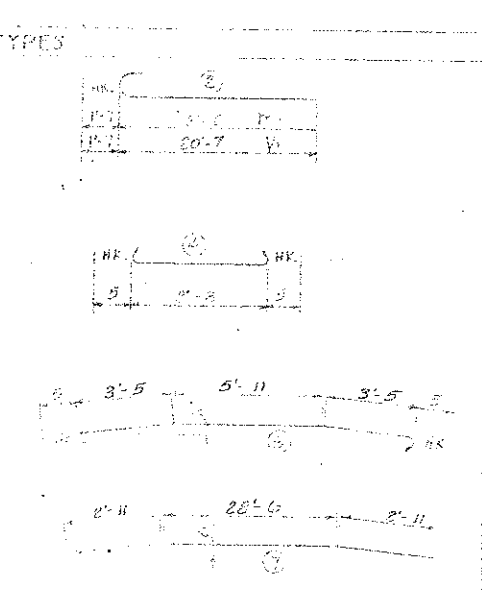
SECTION A-A

BAR TYPES

HR.	①	#
1-7	27'-8"	11
7	5'-0"	1
1-7	21'-10"	8
1-7	24'-0"	10
7	20'-6"	8
3	24'-4"	1
1-7	12'-10"	5



SECTION B-B



BILL OF MATERIAL FOR FOOTING

HR.	Size	Length	Weight
1-7	7/8"	27'-8"	11
7	5/8"	5'-0"	1
1-7	7/8"	21'-10"	8
1-7	7/8"	24'-0"	10
7	7/8"	20'-6"	8
3	7/8"	24'-4"	1
1-7	7/8"	12'-10"	5

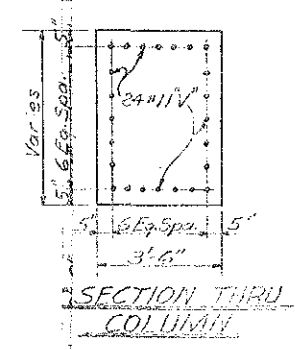
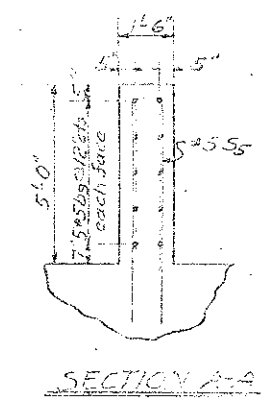
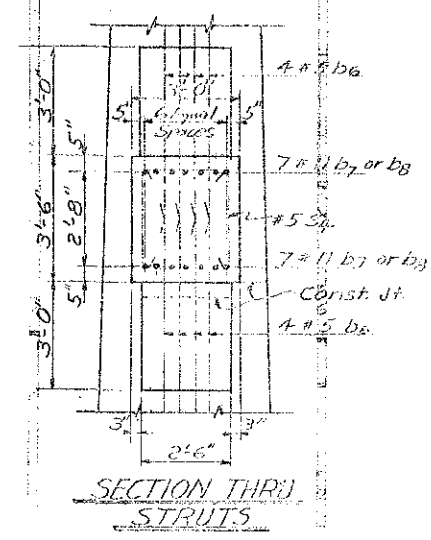
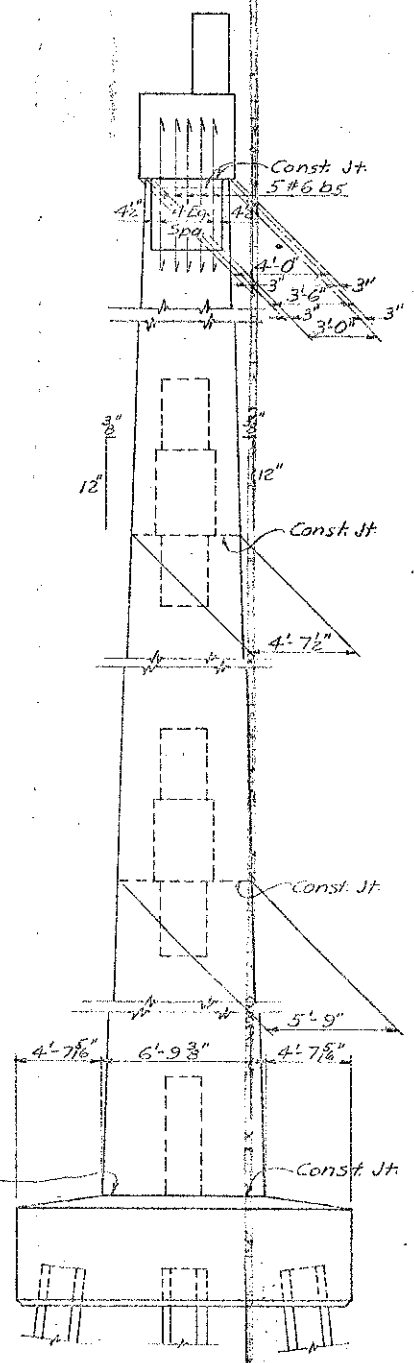
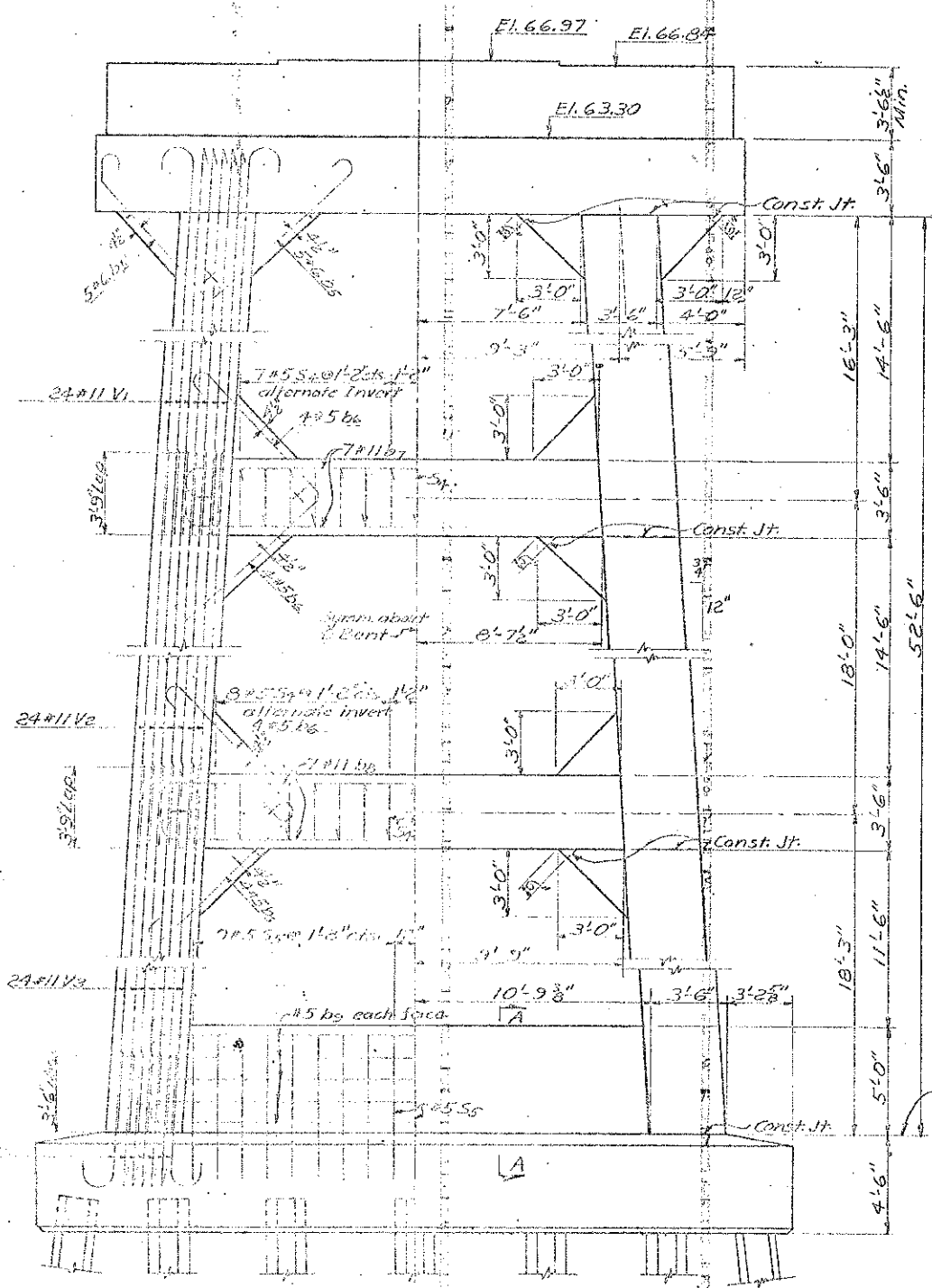
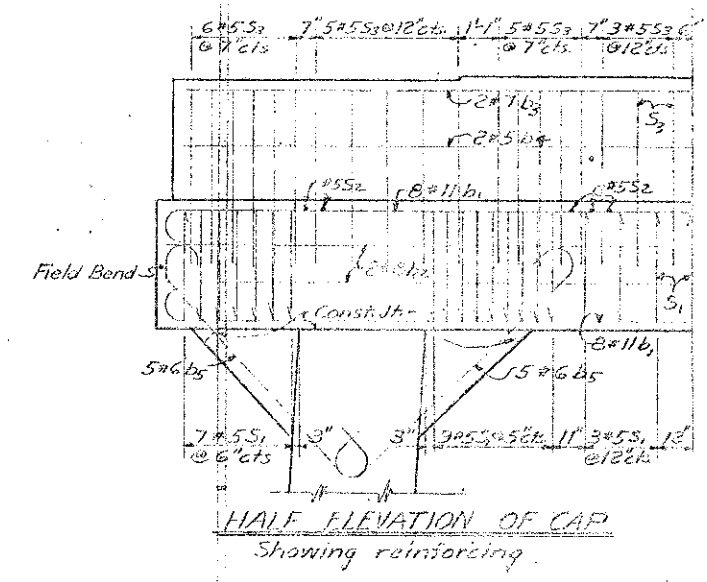
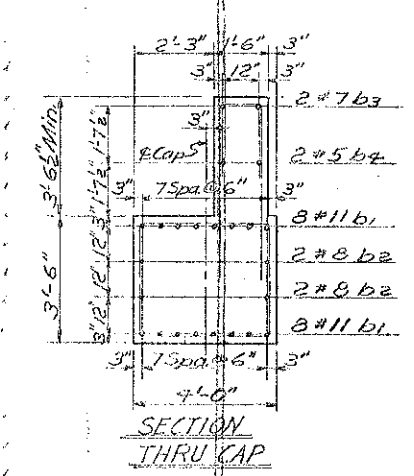
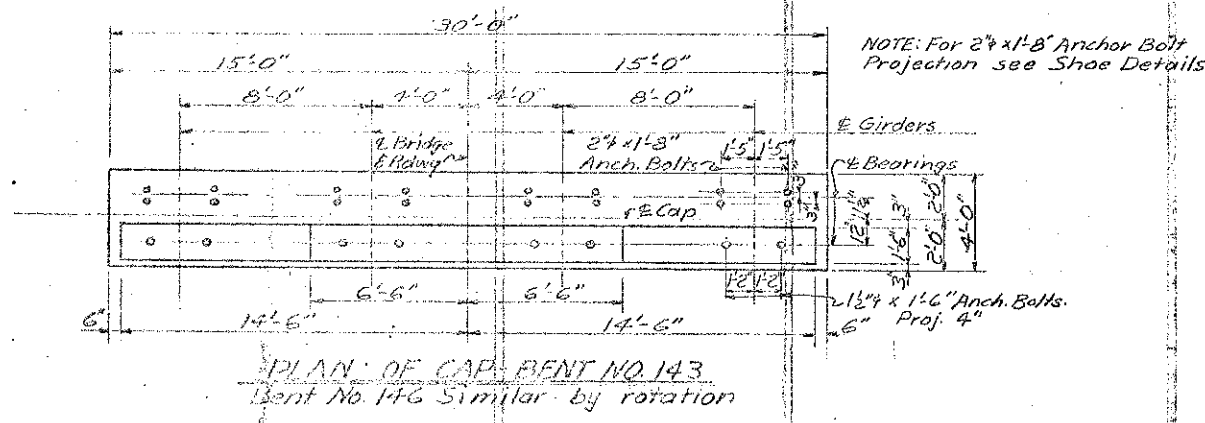
Bar dimensions are cut to cut
 All bars concrete inside of form
 Bend radius as specified

PROJECT NO. 5-257(1)
 COUNTY
 STATION

STATE OF NORTH CAROLINA
 STATE HIGHWAY DEPARTMENT
 Raleigh

DATE

NO. BY DATE

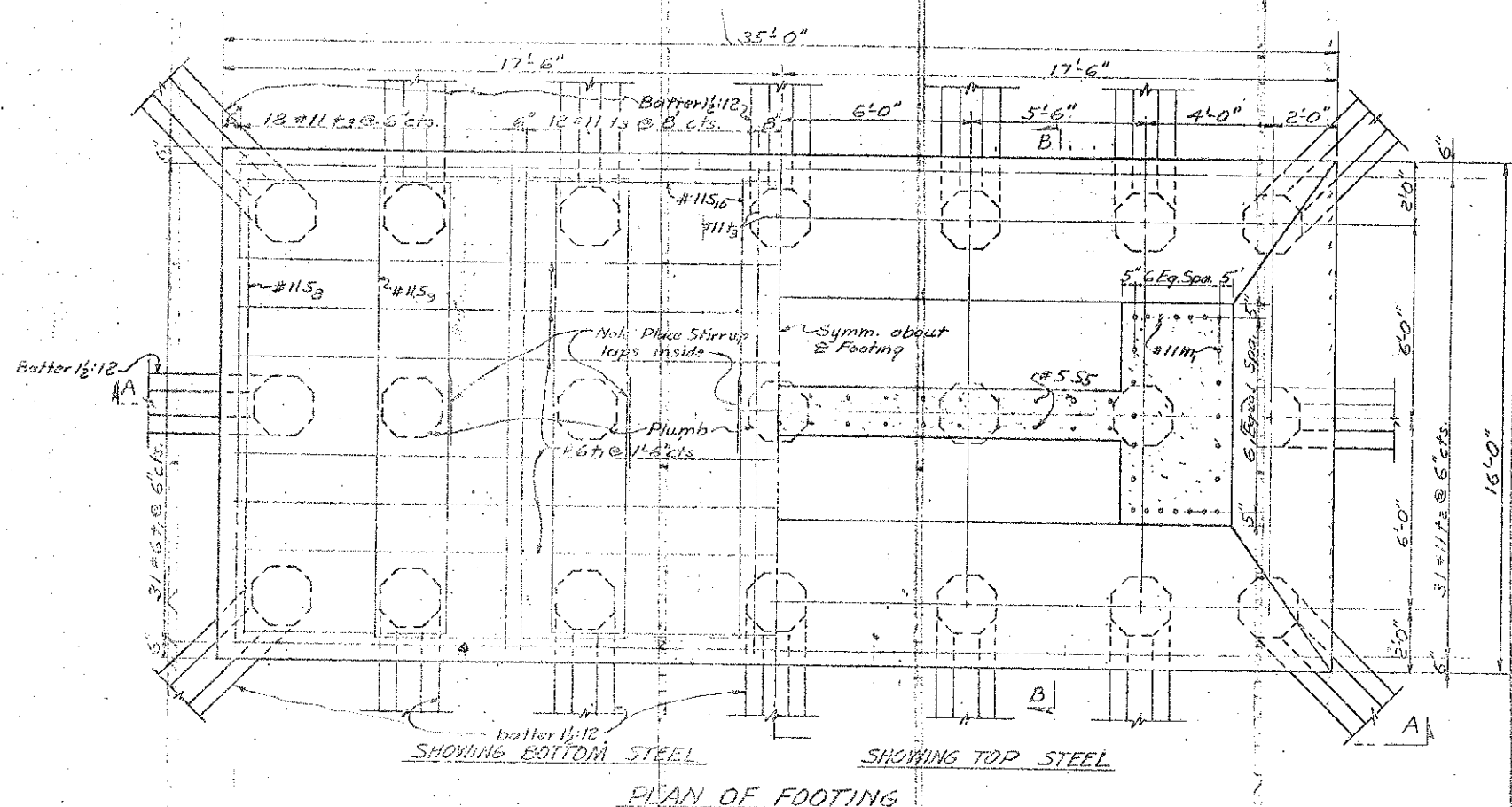


PROJECT NO. 8-21306
 COUNTY
 STATION: 116+25
 SHEET 1 OF 2

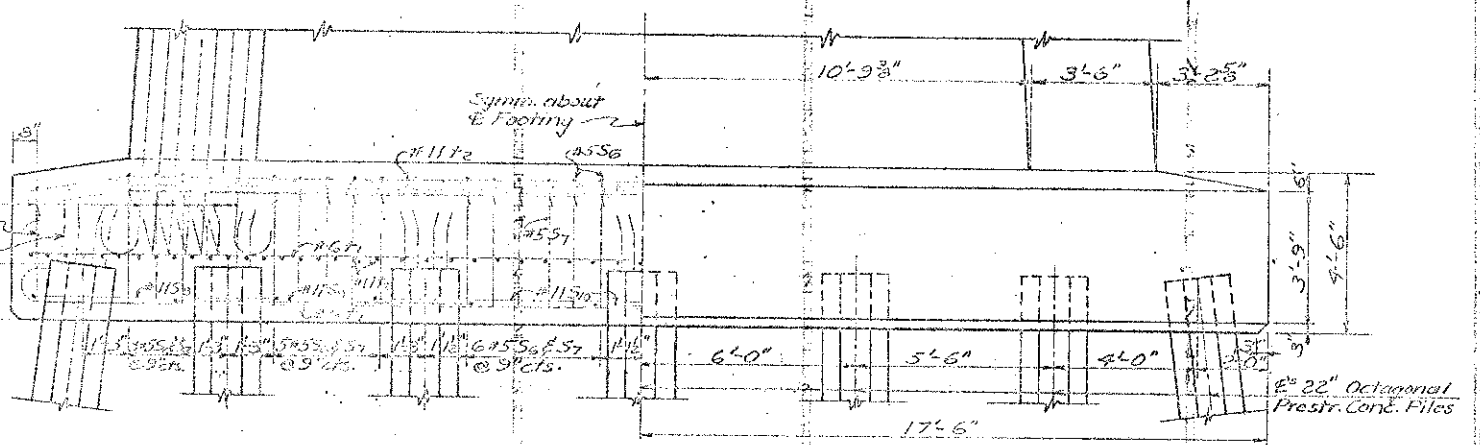
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT NO. 143 OR 146

OCTOBER, 1961

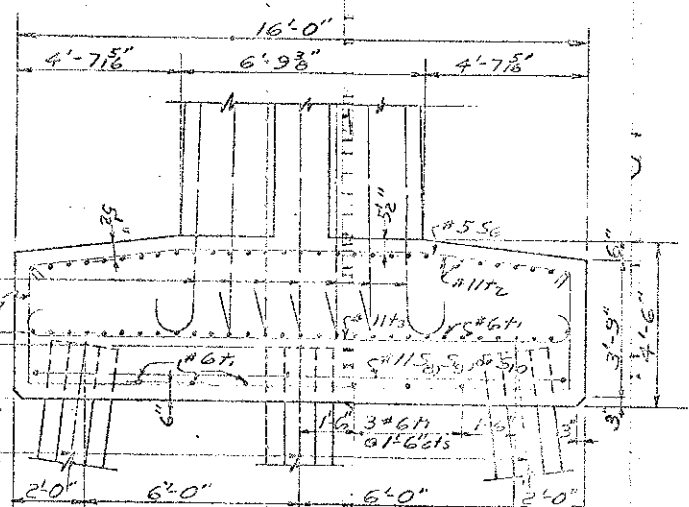
REVISIONS	DATE
BY	
DATE	
BY	



PLAN OF FOOTING



SECTION A-A



SECTION B-B

BAR TYPES
NOTE: All bar dimensions are out-to-out.

HK	①	HK	②
1'-7"	29'-6" b1	1'-7"	6'-2" m1
8"	8'-0" b5	8"	21'-0" v1
7"	8'-0" b6		
1'-7"	22'-2" b7		
1'-7"	24'-5" b8		
7"	26'-4" b9		
8"	34'-4" t1		
1'-7"	15'-4" t3		

③

3'-2"	s1
2'-11"	s4
3'-3"	s7

④

1'-2"	s2
10"	s5

⑤

5'-13"	s8
7'-0"	s5

⑥

4'-3 3/8"	s1
6'-9"	s4
4'-3 3/8"	s7

⑦

6'-6"	s8
8'-0"	s9
8'-6"	s10

BILL OF MATERIAL

FOR 1 BENT - 2 REQD

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	1	32'-8"	277
b2	#8	Str	29'-6"	21
b3	#7	Str	28'-2"	17
b4	#5	Str	28'-6"	5
b5	#6	1	9'-4"	23
b6	#5	1	9'-2"	30
b7	#11	1	25'-4"	182
b8	#11	1	27'-7"	205
b9	#5	1	27'-6"	28
m1	#11	2	7'-9"	197
s1	#5	3	10'-10"	44
s2	#5	4	4'-8"	61
s3	#5	5	11'-2"	47
s4	#5	5	5'-0"	35
s5	#5	5	11'-0"	40
s6	#5	6	11'-2"	40
s7	#5	3	22'-8"	70
s8	#11	7	4'-5"	52
s9	#11	7	4'-8"	51
s10	#11	7	4'-9"	51
t1	#11	1	35'-2"	12
t2	#11	8	3'-0"	54
t3	#11	1	13'-8"	52
v1	#11	2	22'-7"	57
v2	#11	Str	21'-9"	54
v3	#11	Str	20'-3"	51

Concrete Quantities

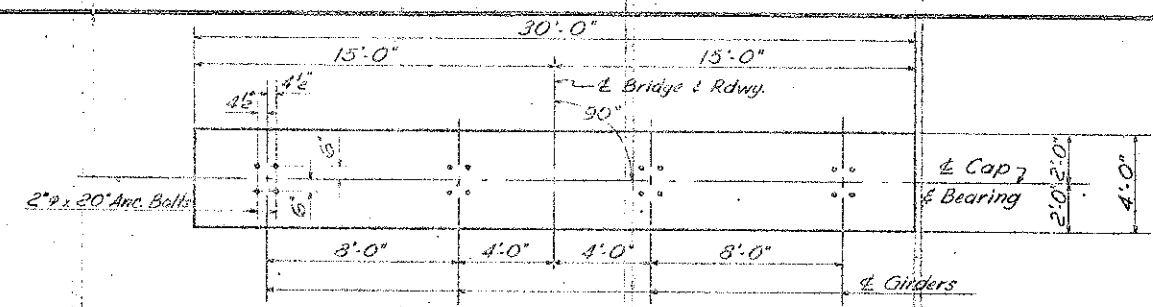
Pour #	Vol.
Pour #1 (Ftg.)	25.5
Pour #2	23.6
Pour #3	22.1
Pour #4	22.5
Pour #5	21.4
Total	208.1

Reinforcing Steel - 2200
Class A Concrete - Cu 145, 2000
22" Oct. Prestr. Conc. Piles
No. 21 - 21m. Fr. - 1305

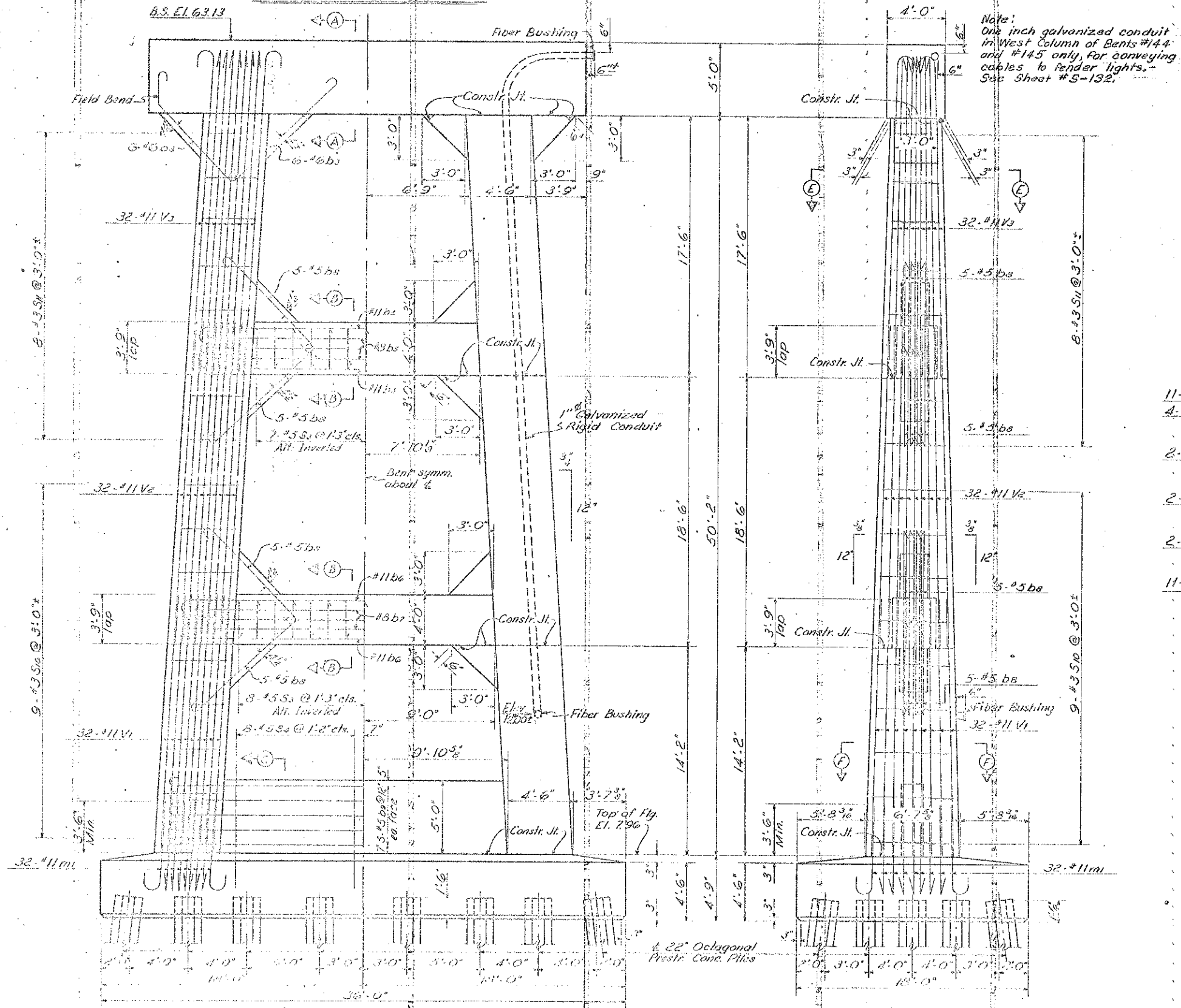
PROJECT NO. 5-14-01/1
DARE COUNTY
STATION 116+25
SHEET 2 OF 2
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUBSTRUCTURE
BENT NO. 143 OR 146

REVISIONS

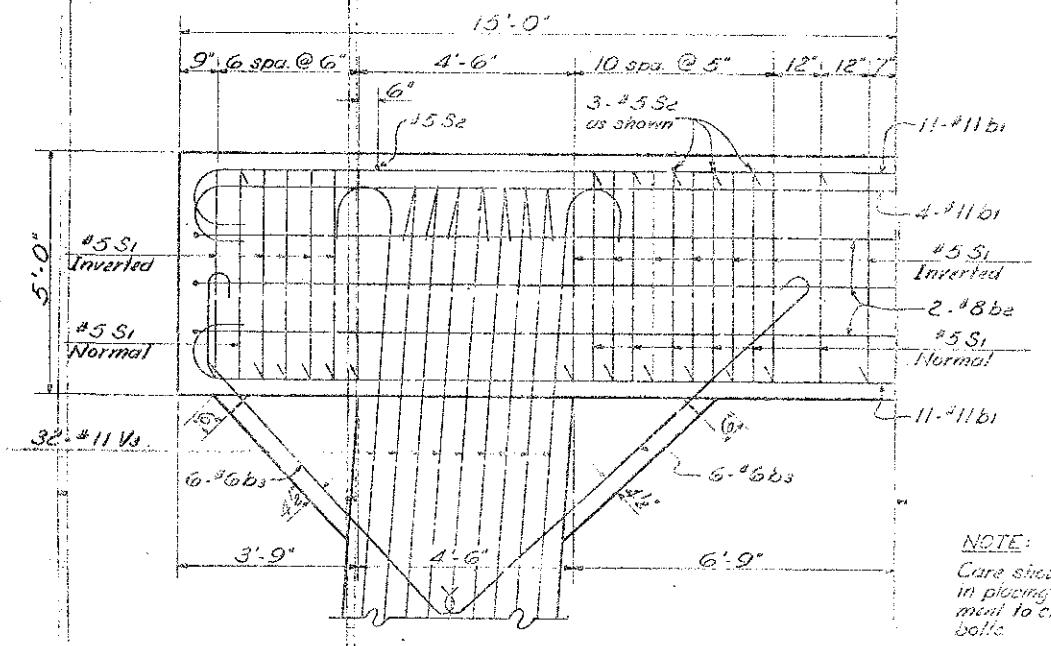
FID ROAD REGION	SHEET	PROJECT NO.
3	N.C.	8,21306
F. A. PROJECT 5-1491(1)		



PLAN OF CAP

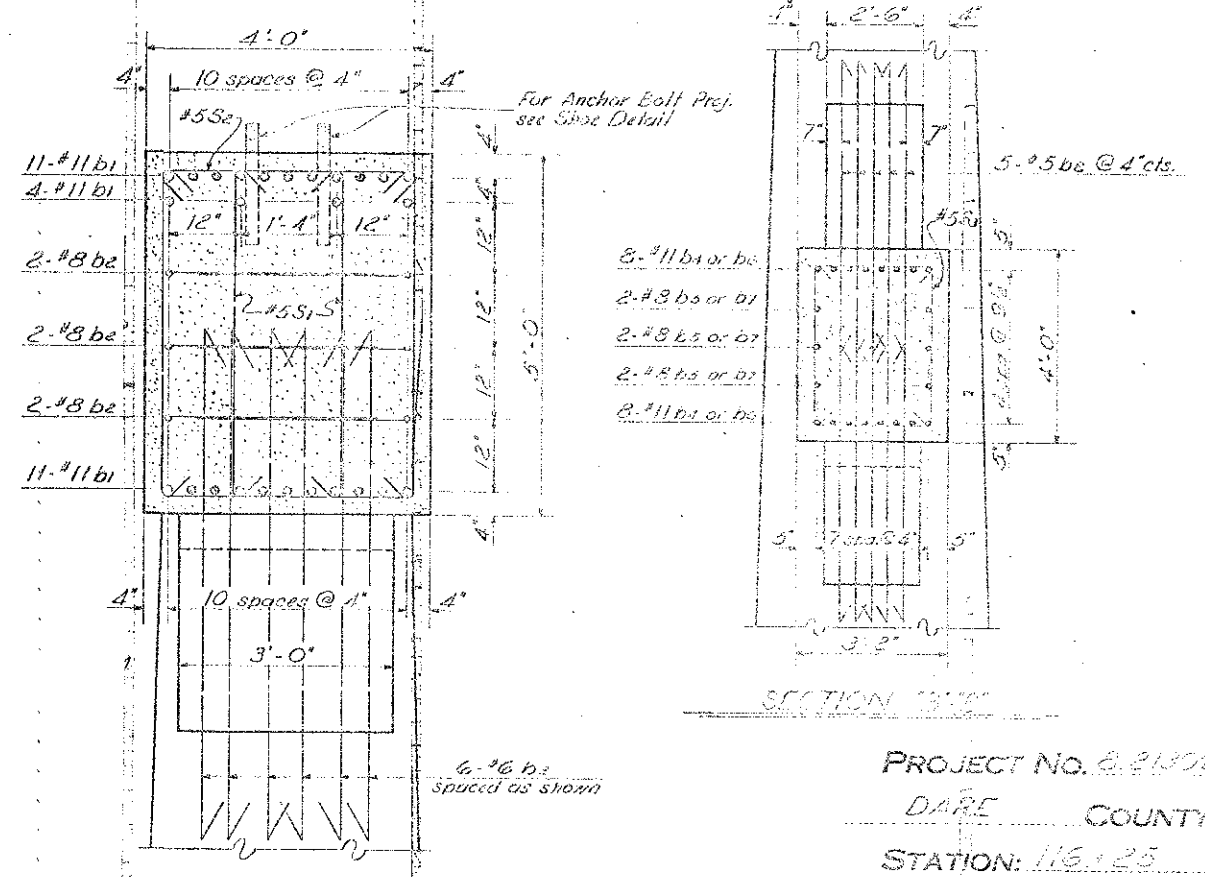


Note:
One inch galvanized conduit in West Column of Bents #144 and #145 only, for conveying cables to tender lights. See Sheet #5-132.



HALF ELEVATION OF CAP

NOTE:
Care should be taken in placing cap reinforcement to clear anchor bolts.



SECTION 'A-A'

SECTION 'B-B'

PROJECT NO. 8,21306

DARE COUNTY

STATION: 116+25

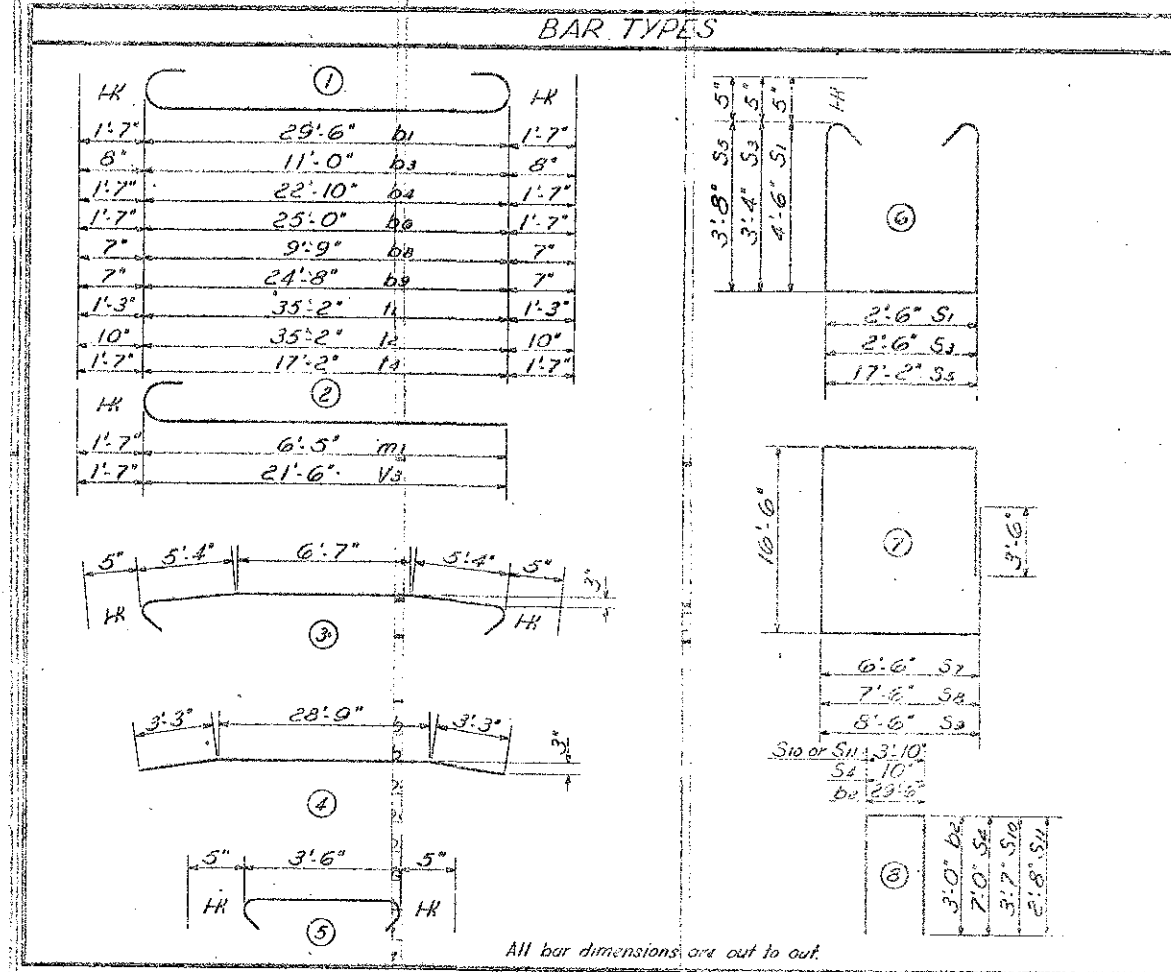
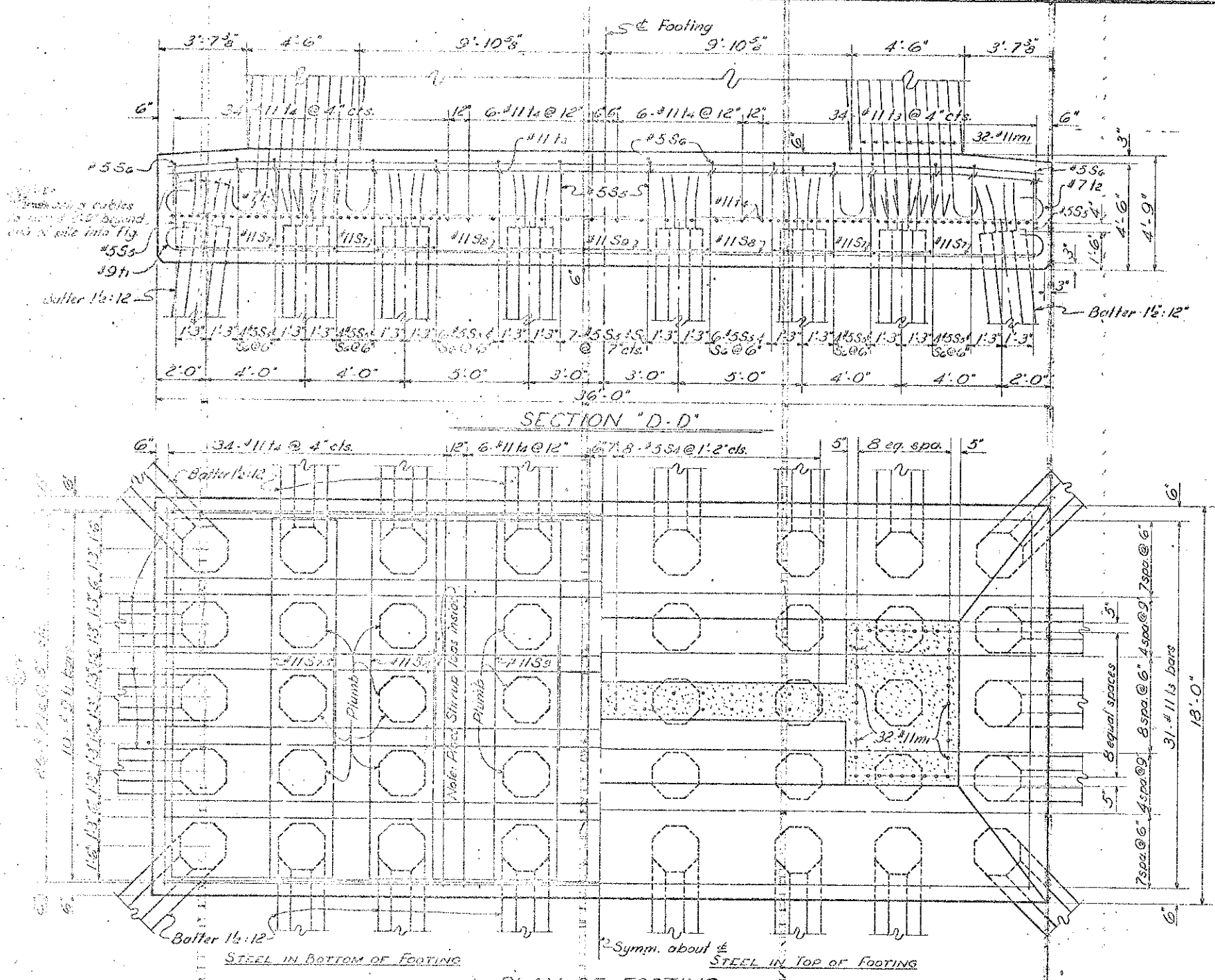
Sheet 1 of 2

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

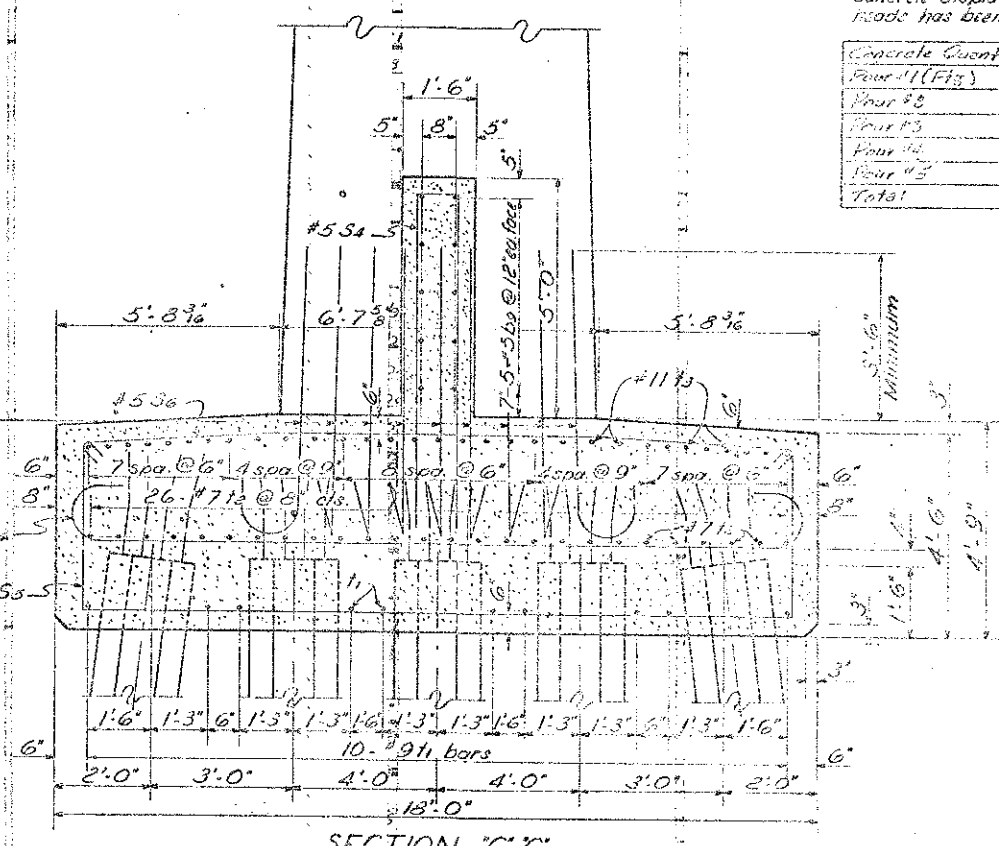
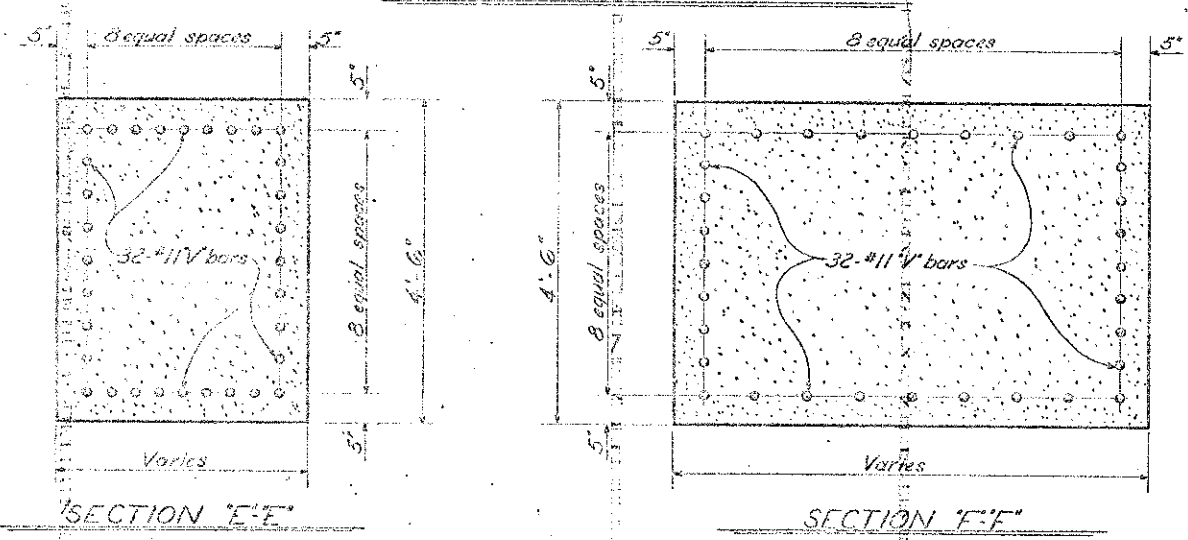
SUBSTRUCTURE
BENT Nos. 144 & 145

REVISION	DATE

NO. ROAD DIST. NO.	STATE	PROJECT NO.
3	N. C.	8-21306
S. A. PROJECT 5-1401(1)		



BILL OF MATERIAL FOR ONE BENT - 2 REQ'D				
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	1	32'-8"	4,513
b2	#8	8	35'-6"	360
b3	#6	1	12'-2"	415
b4	#11	1	26'-0"	2,210
b5	#8	Str.	22'-10"	360
b6	#11	1	28'-2"	2,390
b7	#8	Str.	25'-0"	401
b8	#5	1	10'-11"	455
b9	#5	1	23'-10"	269
m1	#11	2	8'-0"	2,720
l1	#9	1	37'-8"	1,231
l2	#7	1	35'-10"	357
l3	#11	4	35'-3"	2,501
l4	#11	1	20'-4"	532
v1	#4	Str.	17'-11"	605
v2	#4	Str.	22'-3"	750
v3	#4	2	23'-1"	723



Concrete Quantities	Cu yds.
Form #1 (Fly)	105.4
Form #2	95.3
Form #3	41.1
Form #4	33.7
Form #5	23.2
Total	298.7

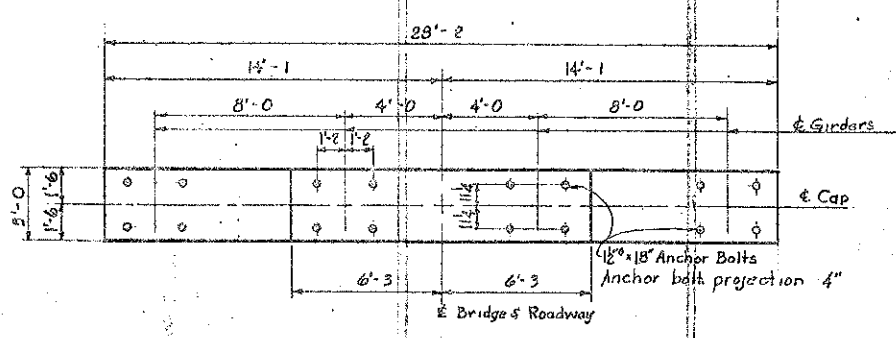
PROJECT NO. 8-21306
DARE COUNTY
STATION: 116+25
Sheet 2 of 2

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
DALE IN

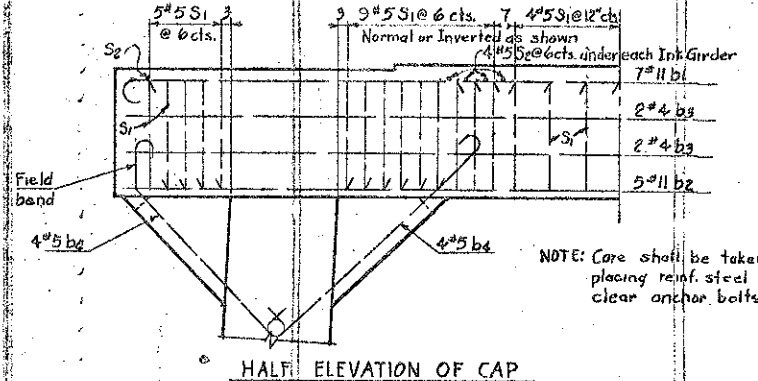
SUBSTRUCTURE
BENT No's 144 & 145

NOVEMBER 1961

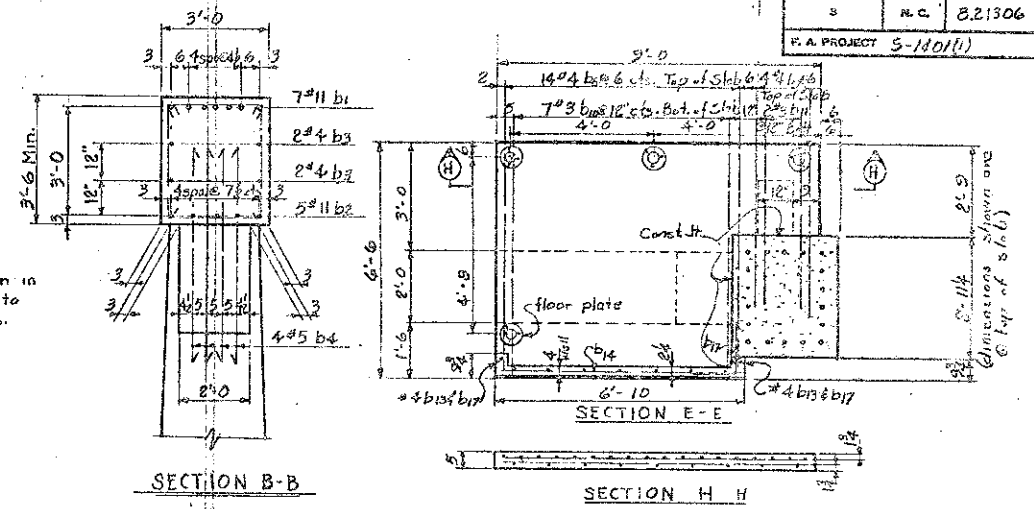
F.L.D. ROAD DIV. NO.	STATE	PROJECT NO.
3	N.C.	8.21306
F. A. PROJECT 5-100(1)		



PLAN OF CAP

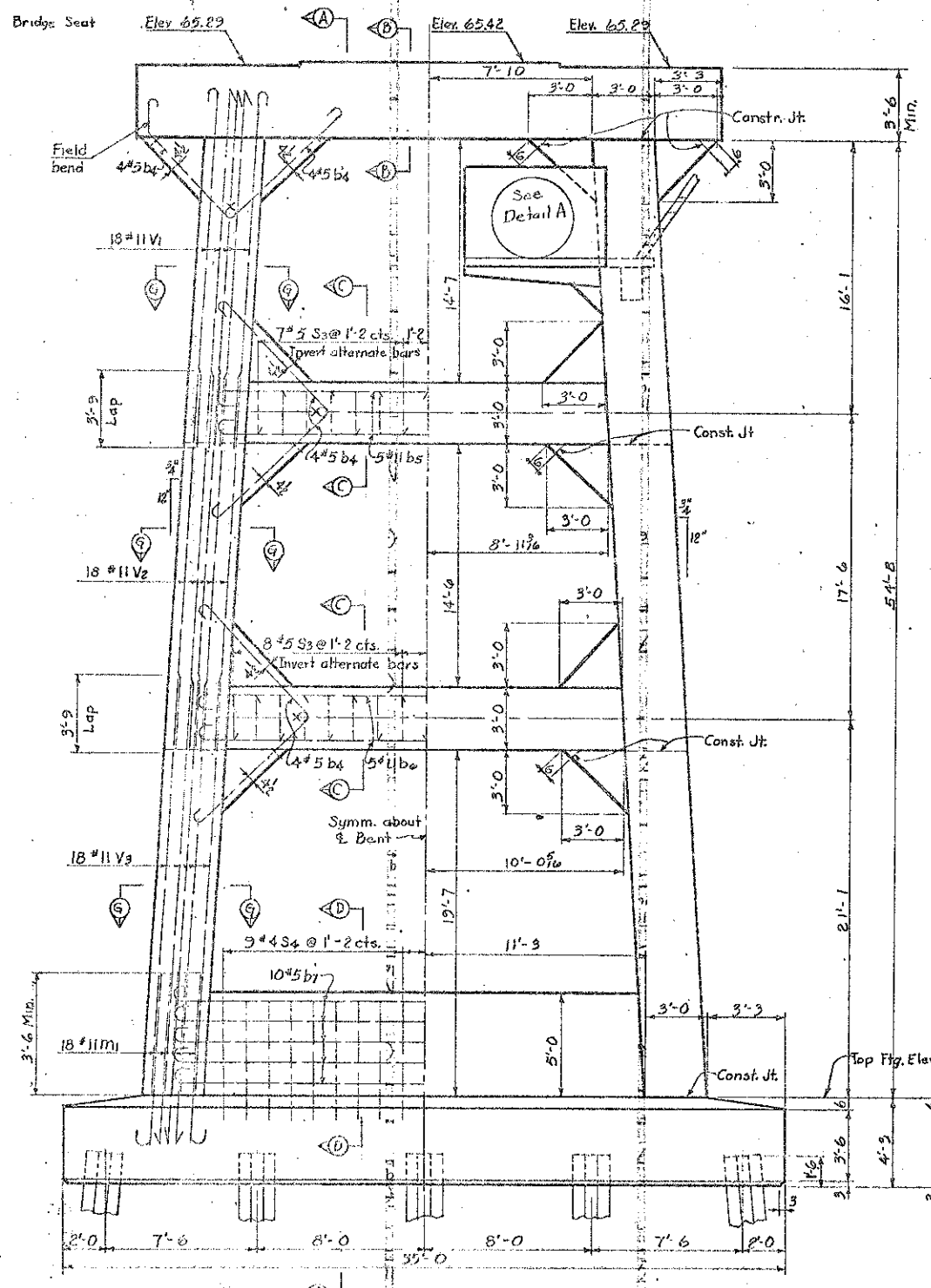


HALF ELEVATION OF CAP

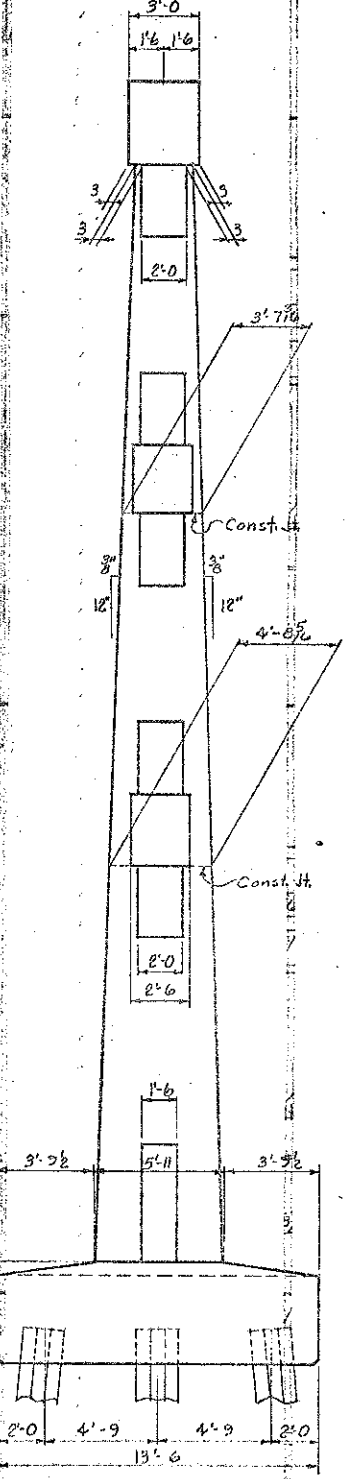


SECTION B-B

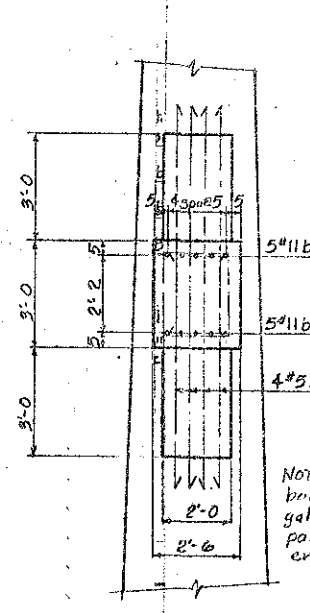
SECTION H-H



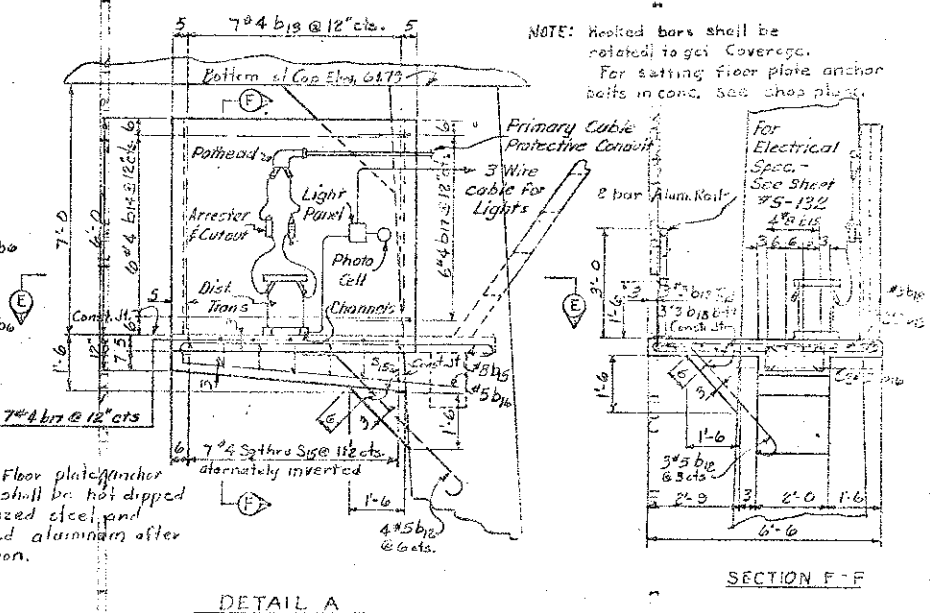
ELEVATION



SECTION A-A

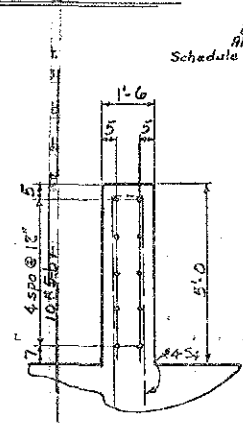


SECTION C-C

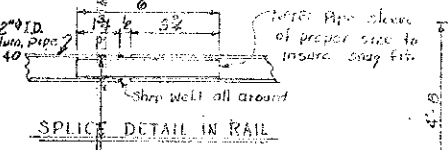


DETAIL A

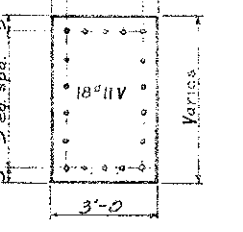
SECTION F-F



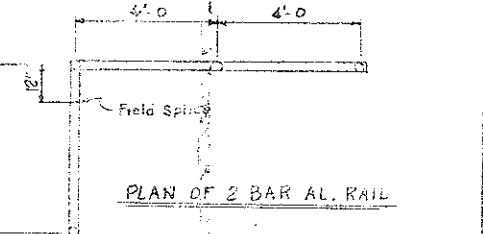
SECTION D-D



SPlice DETAIL IN RAIL



SECTION G-G



PLAN OF 2 BAR AL. RAIL

Aluminum handrail, floor plates shall be aluminum alloy 6061-T6 or 6063-T5. For other notes, see Sheet 2145.

PROJECT NO. 8.21306

DADE COUNTY

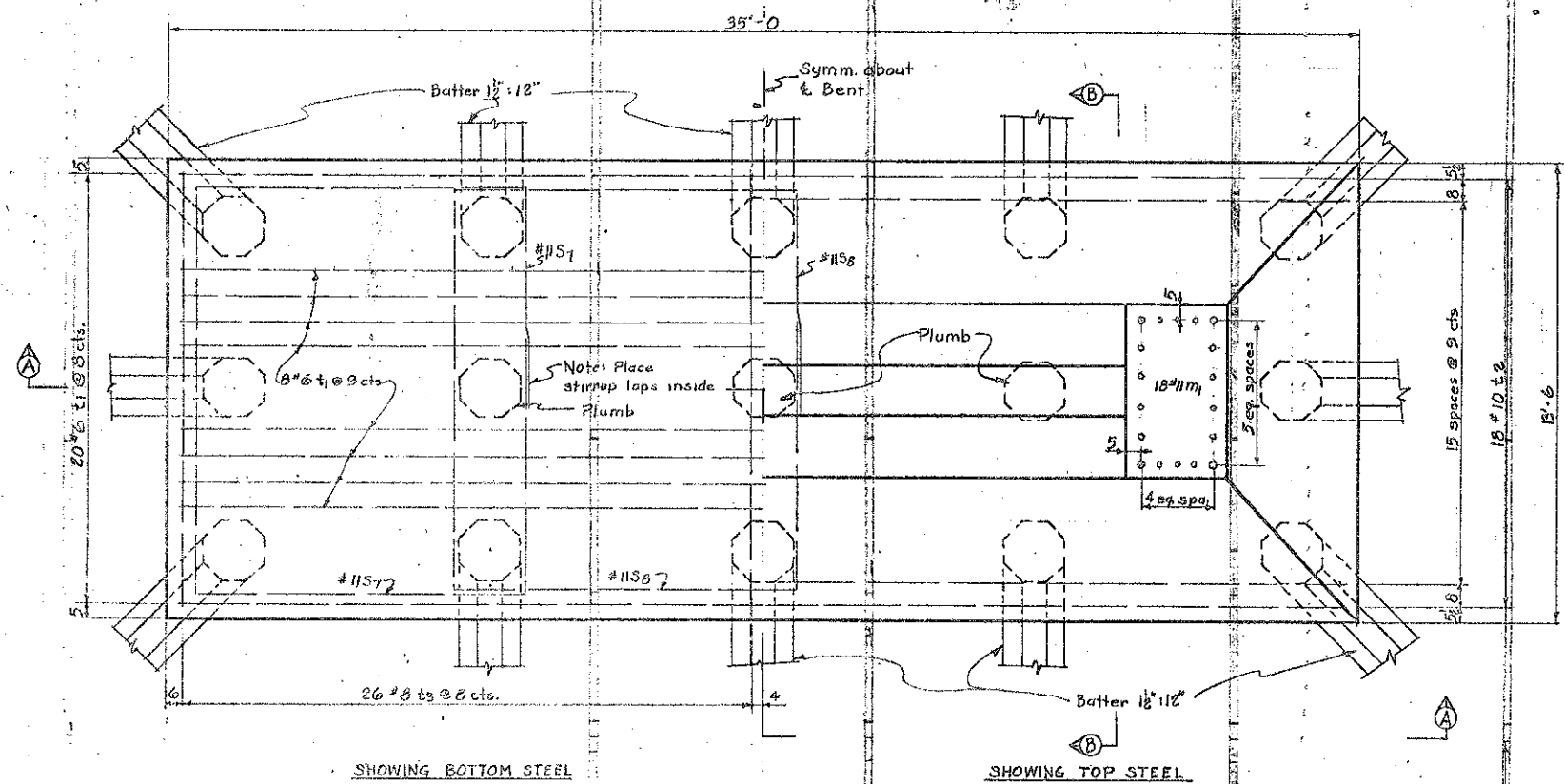
STATION: 116+25

Sheet 1 of 2

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 RALEIGH
 SUBSTRUCTURE
 SENT No 147
 November 1961

NO.	BY	DATE	NO.	BY	DATE

DRAWN BY JACK PIERCE DATE Nov. 1961

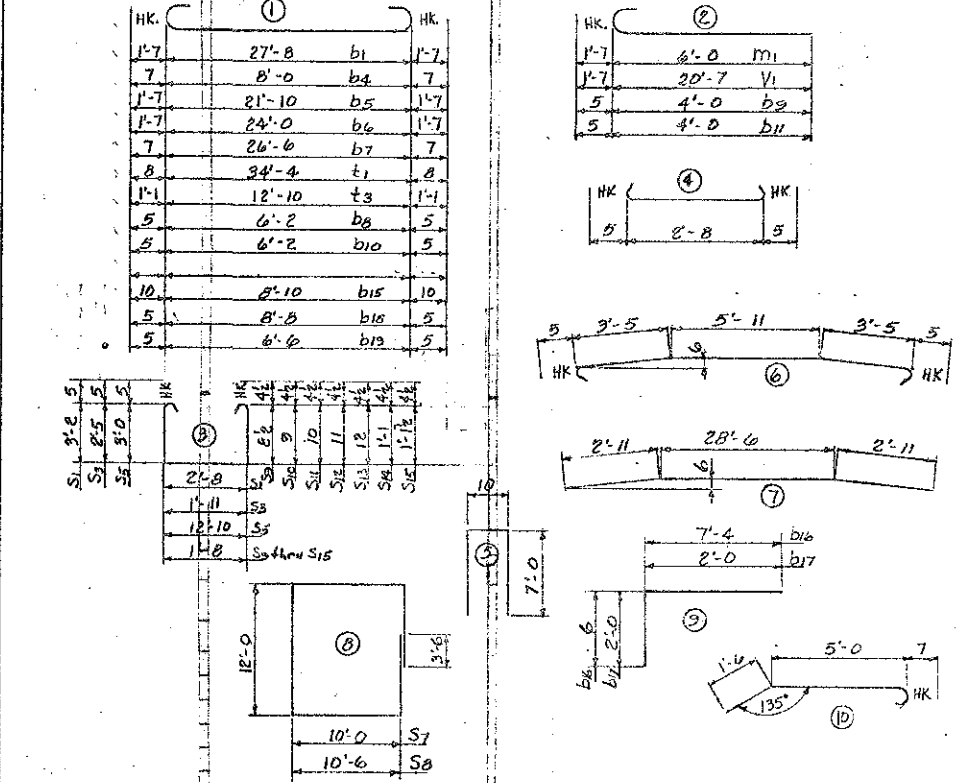


SHOWING BOTTOM STEEL

SHOWING TOP STEEL

PLAN OF FOOTING

BAR TYPES



All bar dimensions are out to out
 *Note: Concrete displaced by pile heads has been deducted.

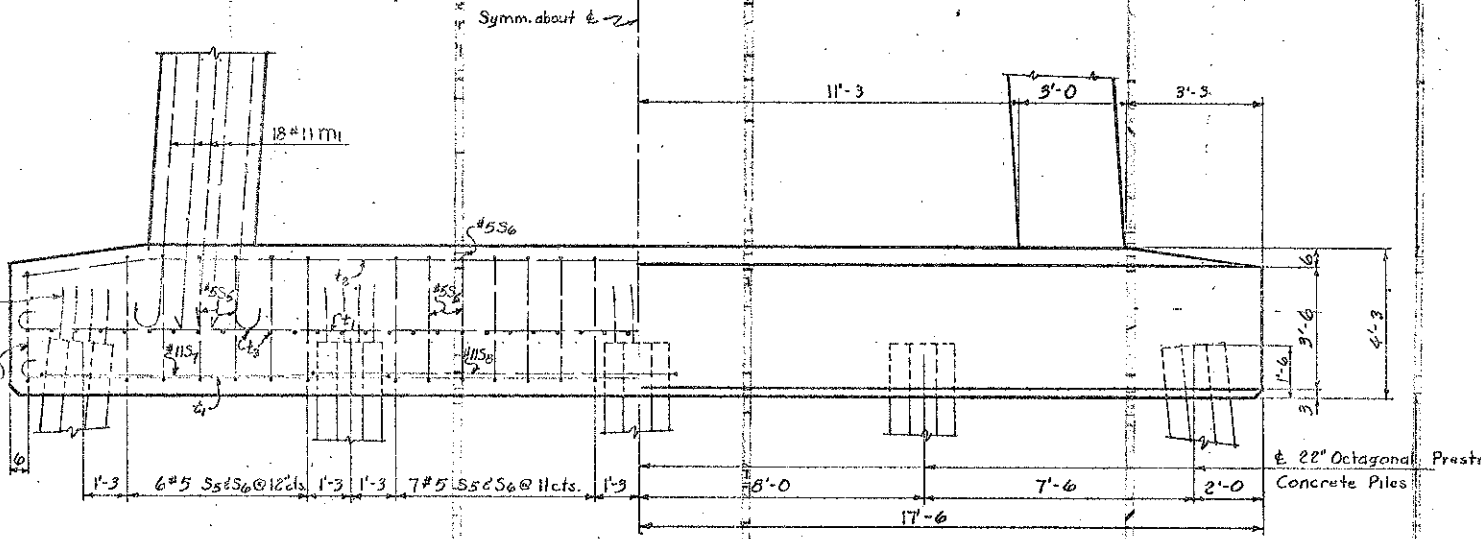
Concrete Quantities cu. yds.	
Pour #1 (Ftg.)	69.2
Pour #2	29.9
Pour #3	23.0
Pour #4	18.5
Pour #5 (Cap)	11.1
Pour #6 (Platform)	1.9
Total	153.9

BILL OF MATERIAL FOR BENT No. 147

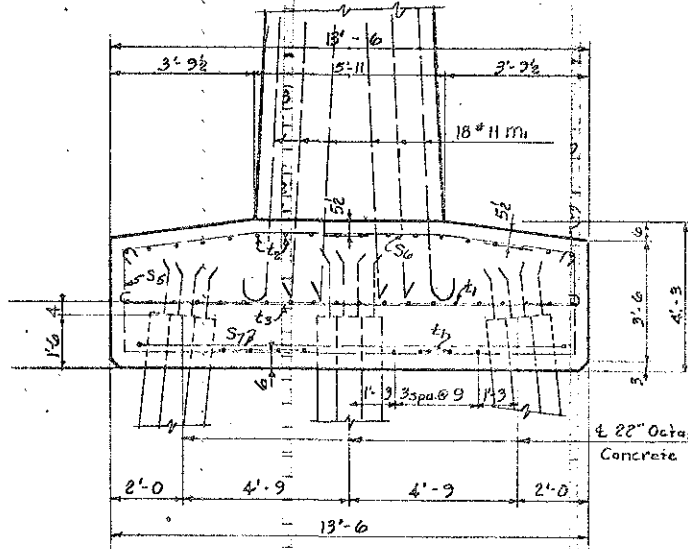
Bar No	Size	Type	Length	Weight
b1	#11	1	30'-10"	114.7
b2	#4	Str.	27'-8"	74
b3	#11	Str.	27'-8"	735
b4	#5	1	9'-2"	45.9
b5	#11	1	25'-0"	132.8
b6	#11	1	27'-2"	44.3
b7	#5	1	27'-8"	25.9
b8	#4	1	7'-0"	6.5
b9	#4	2	4'-5"	12
b10	#3	1	7'-0"	18
b11	#3	2	4'-5"	3
b12	#5	10	7'-1"	52
b13	#4	Str.	5'-5"	34
b14	#4	Str.	5'-6"	26
b15	#5	1	10'-5"	112
b16	#5	3	7'-10"	16
b17	#4	9	4'-0"	35
b18	#5	1	9'-6"	25
b19	#5	1	7'-2"	6
S1	#5	3	2'-5"	25.2
S2	#5	4	3'-6"	57
S3	#5	3	7'-7"	25.3
S4	#4	5	14'-10"	158
S5	#5	5	13'-8"	57.4
S6	#5	6	13'-7"	32.7
S7	#11	8	47'-4"	515
S8	#11	5	45'-5"	515
S9	#4	3	3'-10"	3
S10	#4	3	3'-11"	3
S11	#4	3	4'-1"	3
S12	#4	3	4'-3"	3
S13	#4	3	4'-5"	3
S14	#4	3	4'-7"	3
S15	#4	3	4'-8"	3
m1	#11	2	7'-7"	14.50
t1	#6	1	35'-8"	1500
t2	#10	7	34'-4"	265.9
t3	#8	1	15'-0"	208.5
v1	#11	2	22'-2"	424.9
v2	#11	Str.	21'-5"	404.4
v3	#11	Str.	23'-4"	443.7

Reinforcing Steel lbs. 29157
 *Class #1 Concrete cu. yds. 153.9
 28" Oct. Prest. Conc. Piles No. 15 Limit 2750

NOTE: Prestressed Cables to extend 2'-0" beyond end of Pile into Footing.



SECTION A-A

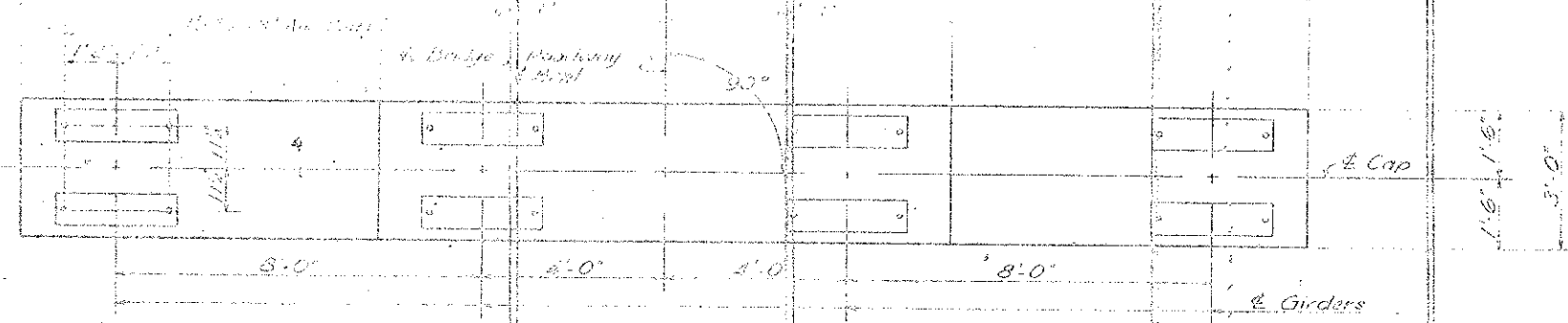


SECTION B-B

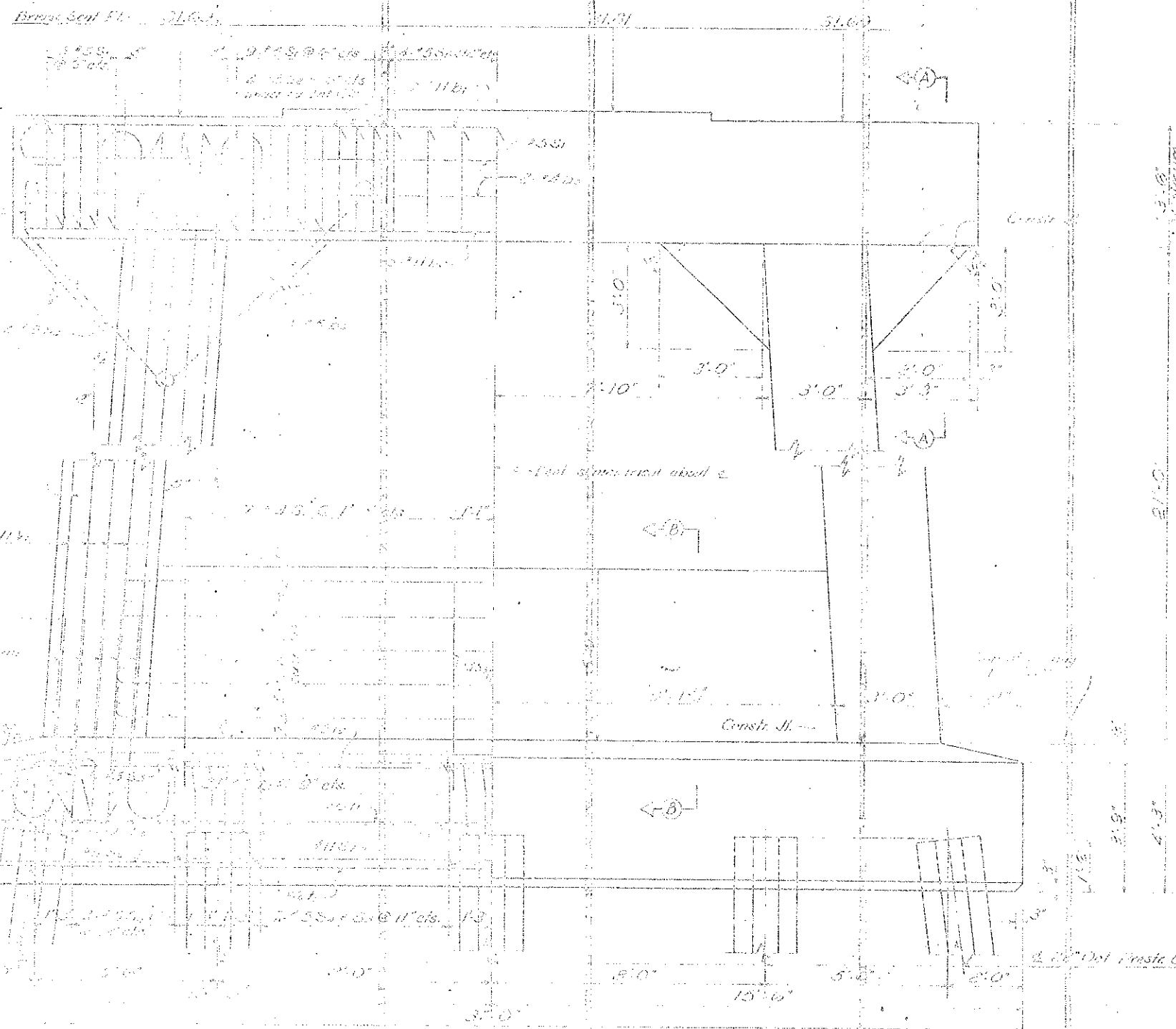
PROJECT NO. 821306
 DAPE COUNTY
 STATION: 116+25
 Check: E. J. E.

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 RALEIGH
 SUBSTRUCTURE
 BENT No. 147
 November 1961

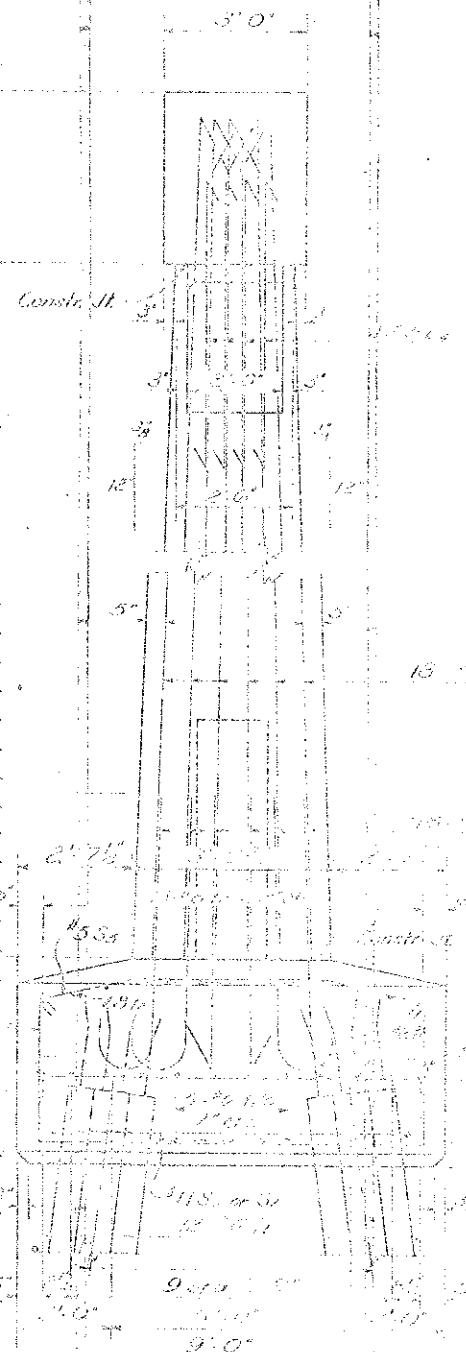
REVISIONS				SHEET NO.	
NO.	BY	DATE	NO.	BY	DATE
1	L.A.P.	10/23/61	3		
				SHEET 5/16	
				TOTAL	



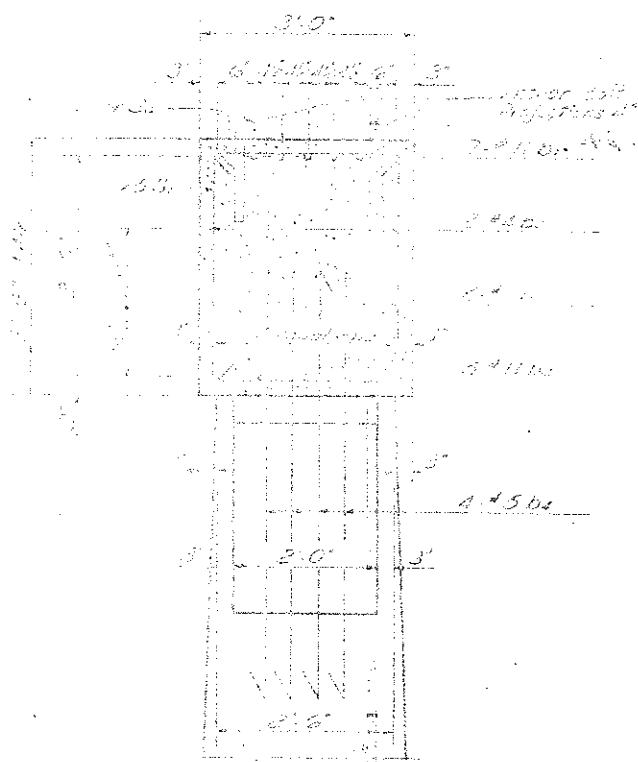
PLAN OF CAP



ELEVATION



END ELEVATION



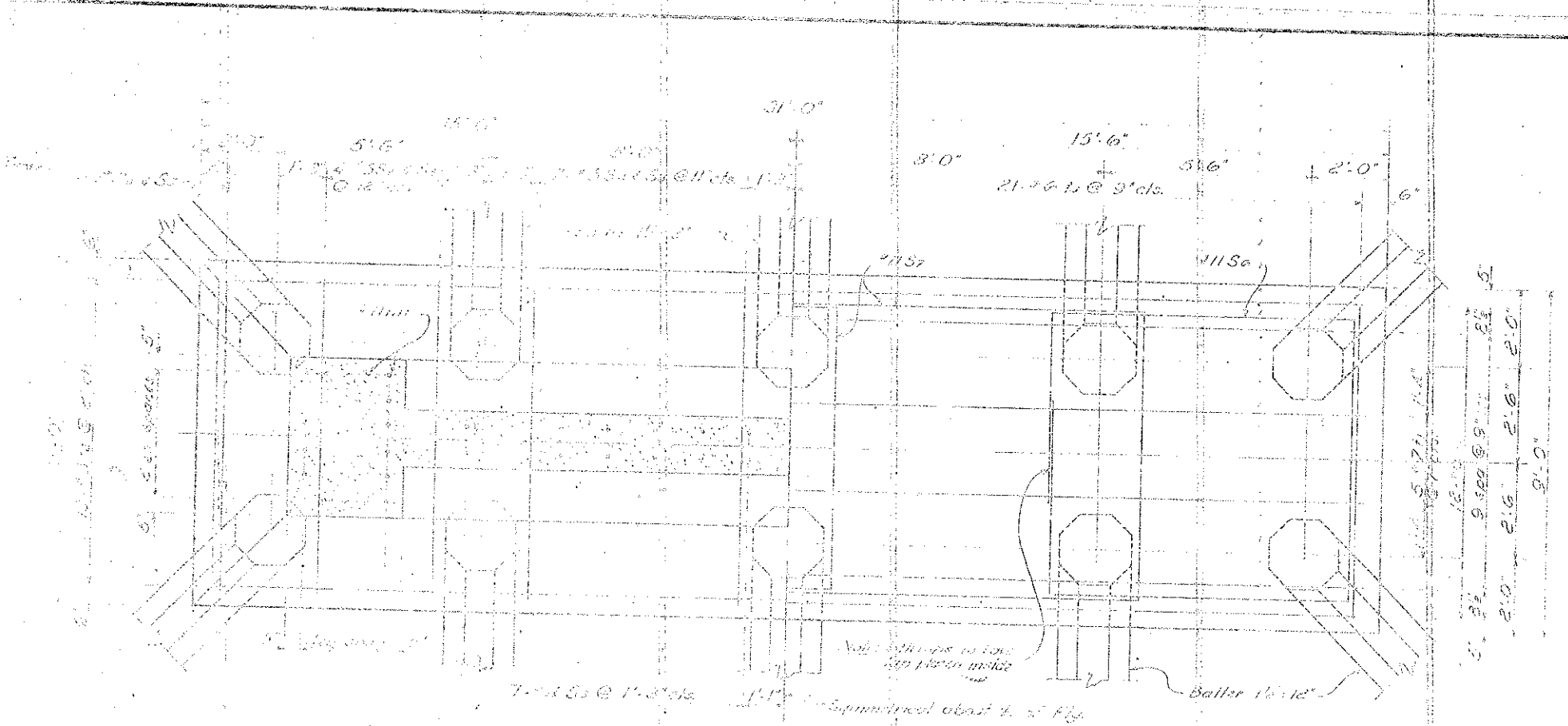
SECTION A-A

PROJECT NO. 6-2-376
 DARR COUNTY
 STATION 1+45.5

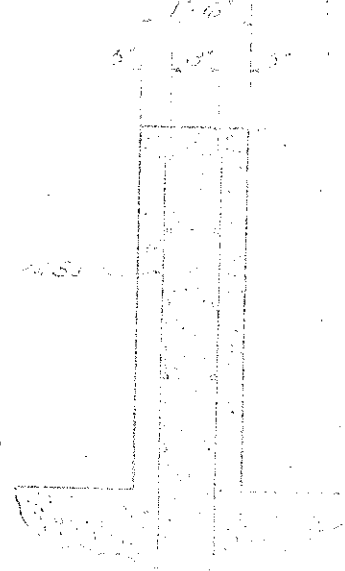
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

CONSTRUCTION
 REV. 11/1/61

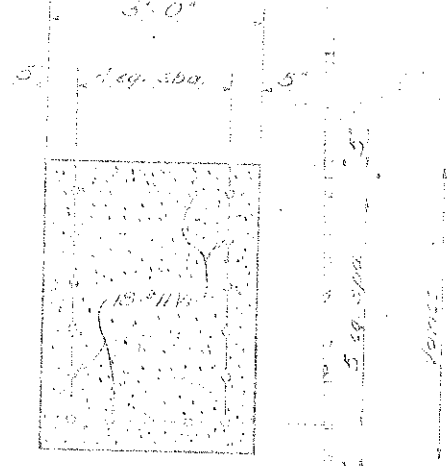
1961



PLAN OF FOOTING



SECTION A-A



SECTION THRU COLUMN

BAR TYPES			
HK	(1)		HK
1'-7"	27'-8"	b1	1'-7"
7'	8'-0"	b4	7'
7'	21'-8"	b5	7'
8"	30'-4"	b1	8"
8"	8'-4"	b5	8"
HK	(2)		
1'-7"	6'-0"	m1	
1'-7"	24'-0"	v1	

BILL OF MATERIAL FOR ONE BENT

BAR NO.	SIZE	TYPE	LG-FT	WT-LBS
b1	7	#11	1 30'-10"	1147
b4	5	#11	5x 27'-8"	735
b5	4	#4	5x 27'-8"	74
b4	16	#5	1 2'-2"	153
b5	10	#5	1 22'-10"	235
m1	30	#11	2 7'-7"	1450
S1	35	#5	7 5'-10"	359
S2	10	#5	6 3'-6"	37
S3	15	#4	5 14'-10"	149
S4	24	#5	7 15'-2"	360
S5	24	#5	2 5'-3"	252
S6	2	#11	2 32'-6"	367
S7	2	#11	2 32'-6"	367
v1	17	#5	3 3'-5"	309
v2	10	#5	3 30'-5"	1016
v3	10	#5	1 2'-5"	335
v4	55	#11	2 25'-7"	1893

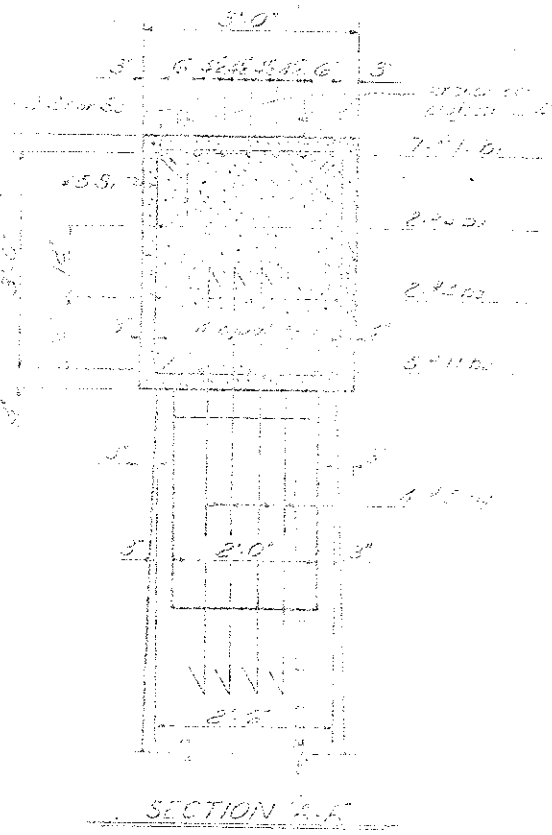
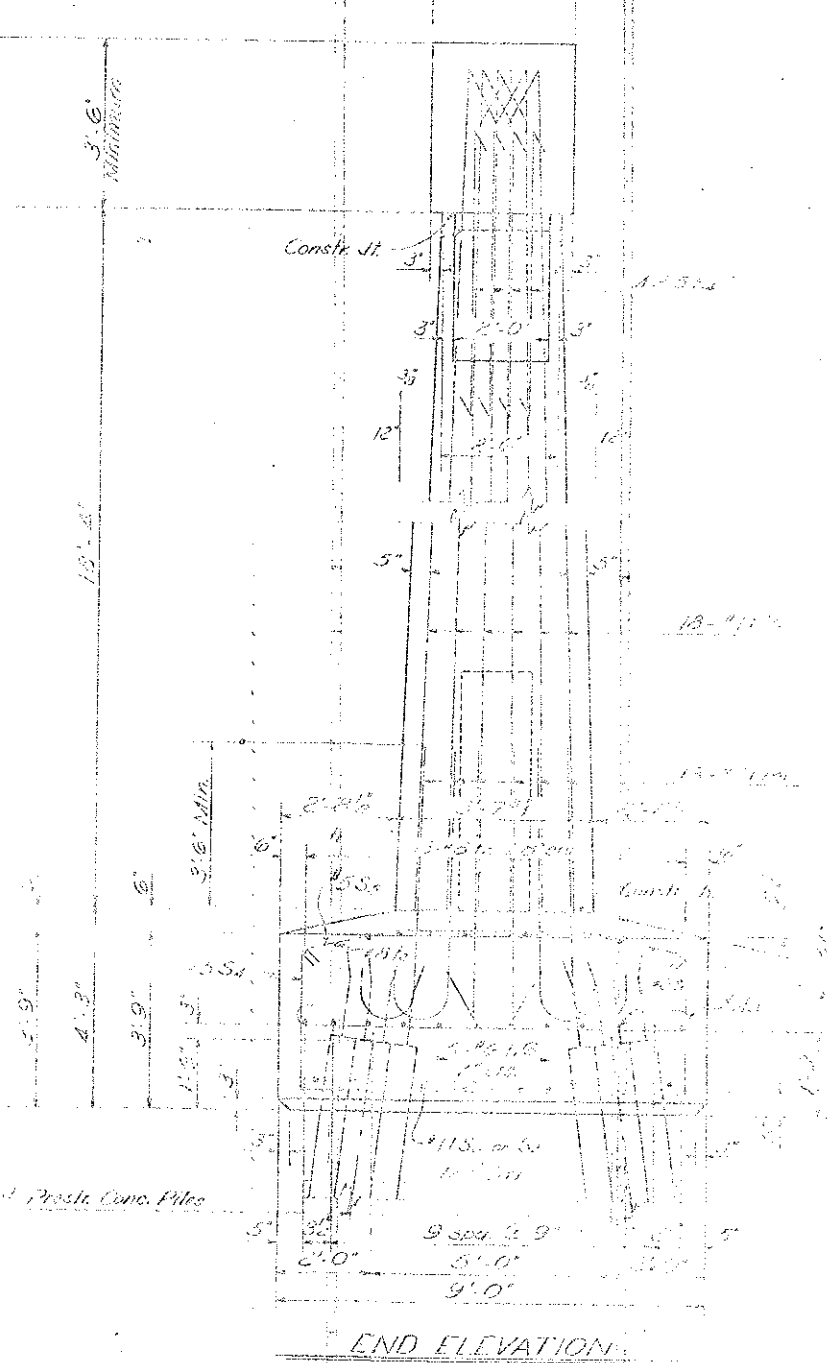
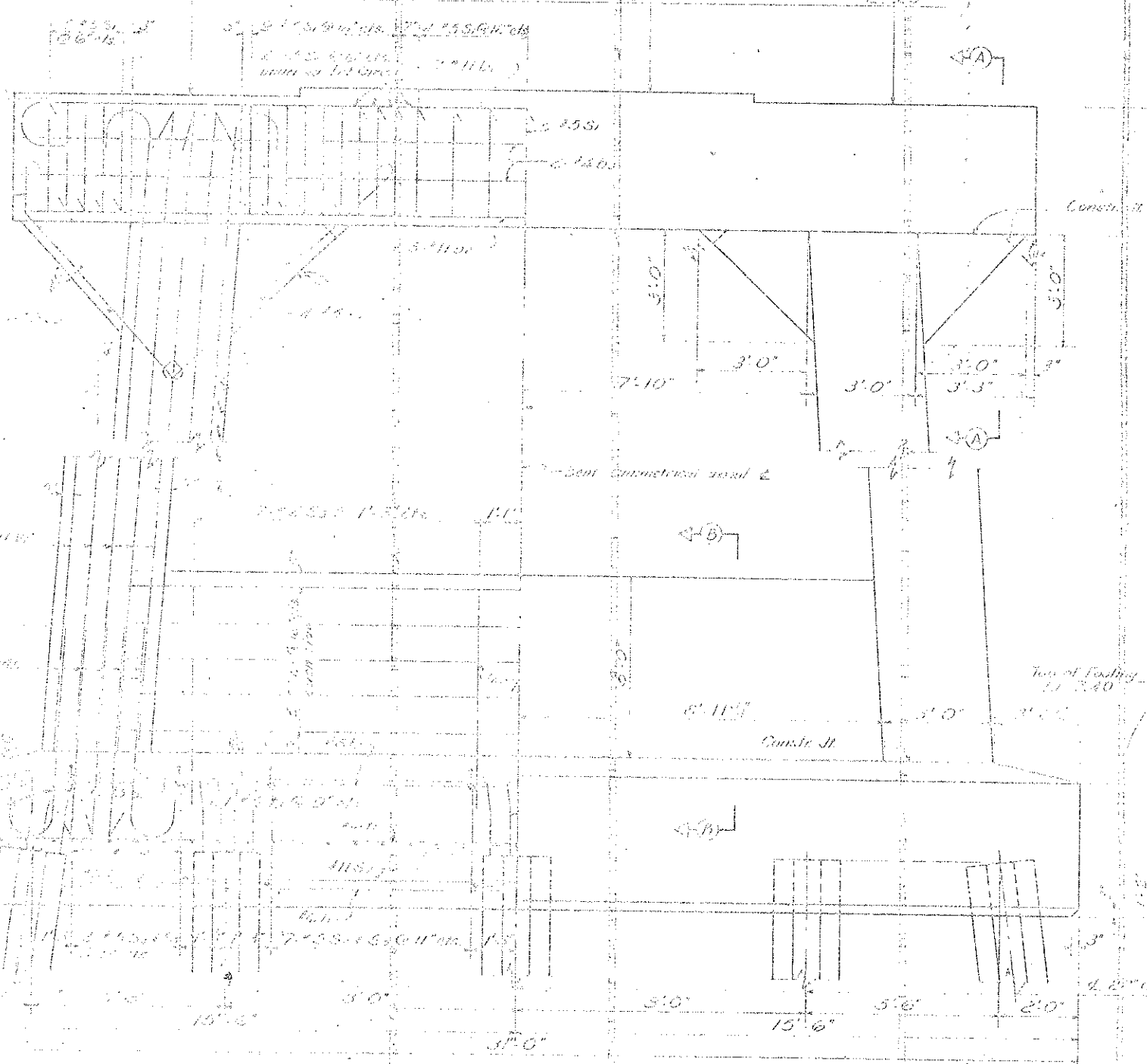
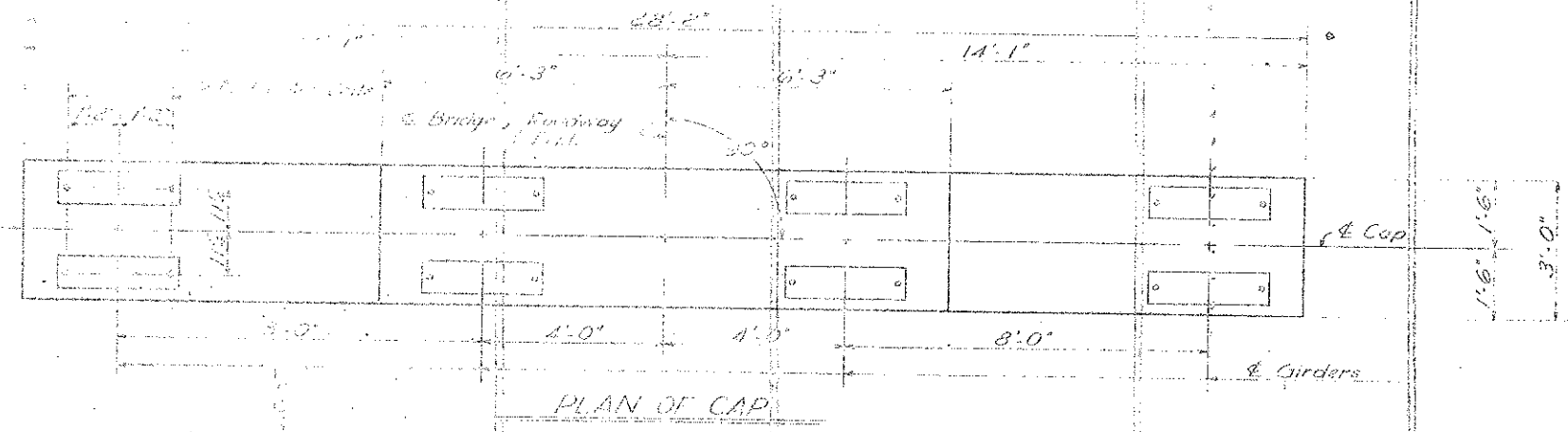
Reinforcing Steel Lbs. = 73,272
 Class "A" Concrete Cu Yds = 7,200
 10" Dia. Prest. Conc. Piles
 No 10 - 1 in Ft = 200

All bar dimensions and cut P.L.

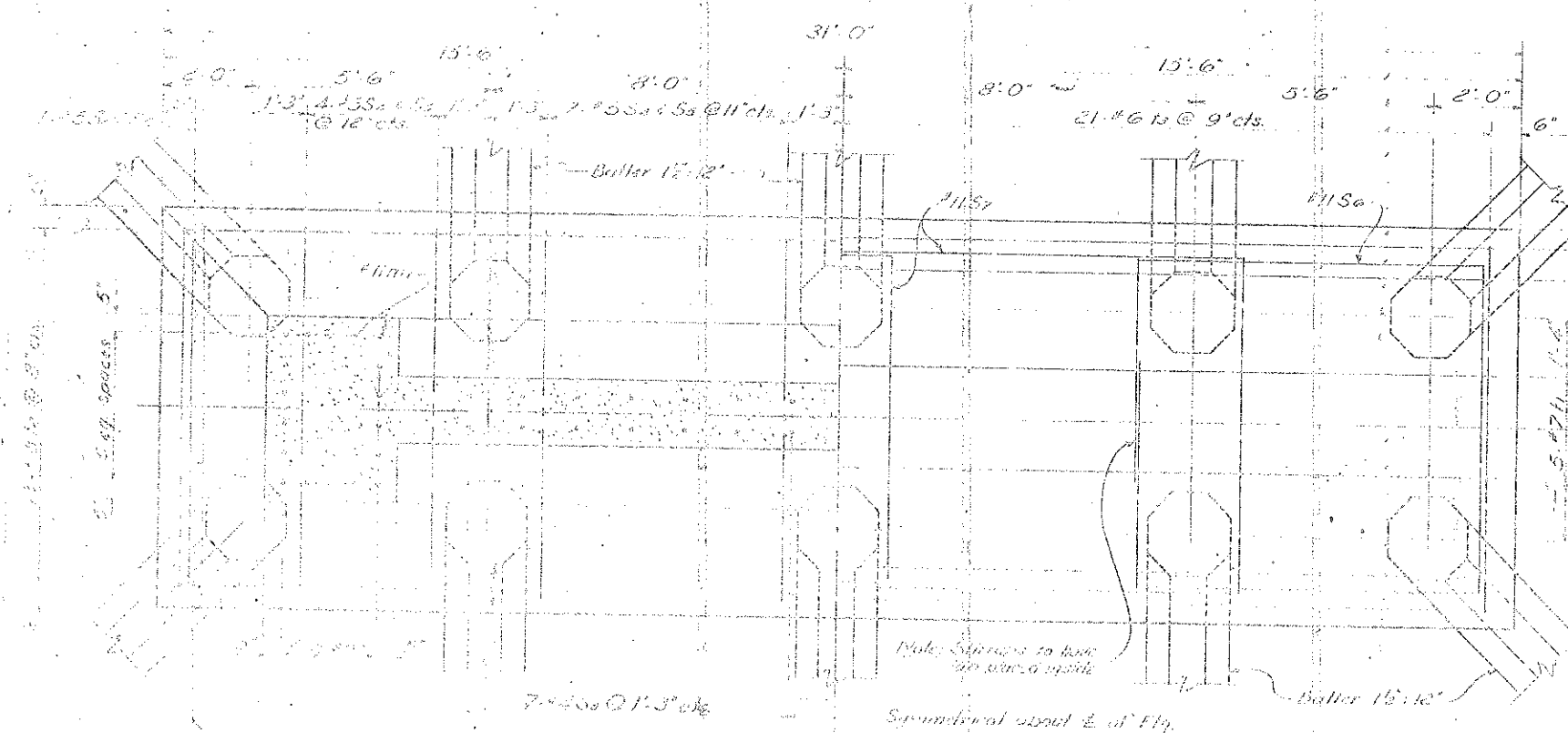
Note: Concrete finished by air finish, not been included.

PROJECT No. E 21506
 DATE: 2/21/26
 STATION: 10+21.25
 SHEET No. 161
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BRIDGE No. 161
 APPROVED: 1926

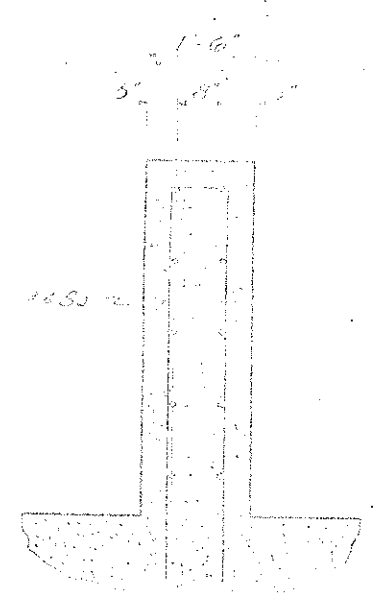
RD 1948 REGION	DATE	PROJECT NO.
3	M.C.	S 21306
F. A. PROJECT S-25,774		



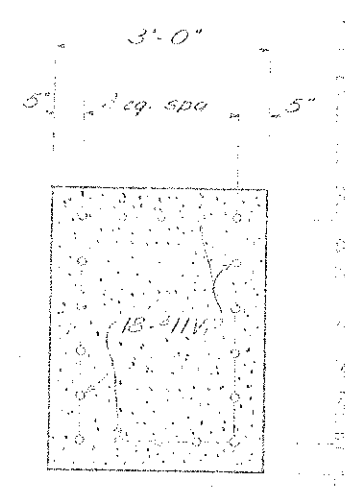
PROJECT NO. 8-2-536
 DARE COUNTY
 STATION: 116+26
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT No. 132
 NOVEMBER 1961



STEEL IN BOTTOM OF FOOTING
PLAN OF FOOTING



SECTION A-B



SECTION THRU COLUMN

BAR TYPES			
HK	(1)	HK	
1'-7"	27'-8"	b1	1'-7"
7"	8'-0"	b2	7"
17"	21'-8"	b3	17"
8"	30'-4"	b4	8"
8"	8'-4"	b5	8"
HK	(2)	HK	
1'-7"	6'-0"	m1	1'-7"
1'-7"	21'-4"	m2	1'-7"
5'	3'-3"	3'-11"	5'
5'	2'-3"	3'-7"	5'
HK	(3)	HK	
10"			
7'-0"			
HK	(4)	HK	
5'	2'-8"	5'	
HK	(5)	HK	
7'-0"			
5'	2'-8"	5'	
HK	(6)	HK	
5'	2'-8"	5'	

All bar dimensions are cut to cut
* Notes: Concrete displaced by bar heads has been deducted.

BILL OF MATERIAL FOR ONE BENT

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	F	30'-10"	1,147
b2	#11	Str	27'-8"	735
b3	#11	Str	27'-8"	74
b4	#5	F	9'-2"	153
b5	#5	F	22'-10"	230
m1	#11	F	7'-7"	142
m2	#5	F	9'-10"	359
m3	#5	F	3'-8"	77
m4	#5	F	14'-10"	137
m5	#5	F	15'-2"	139
m6	#5	F	7'-2"	142
m7	#11	F	1'-0"	167
m8	#11	F	39'-6"	820
m9	#11	F	1'-1"	171
m10	#11	F	30'-5"	1,020
m11	#11	F	1'-0"	171
m12	#11	F	22'-11"	820

Reinforcing Steel
* Cast in Concrete
28' Unit Prest. Conc. F
No. 11

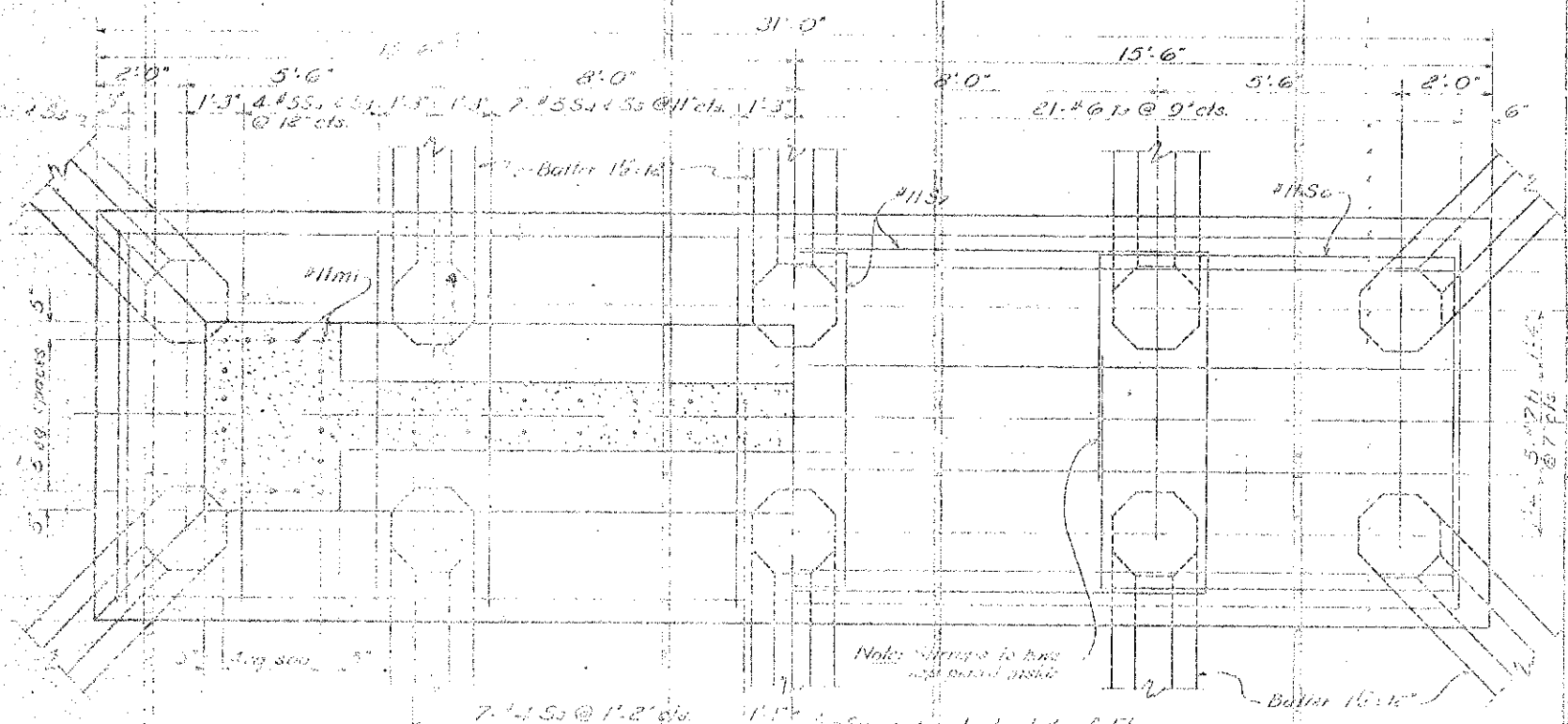
PROJECT NO. 6.2135
CAPE COUNTY
STATION 116+25

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
BENT No. 162

NOVEMBER 1961

PROJECT NO.	DATE	SCALE
3	R.C.	2/13/56
F. A. PROJECT		



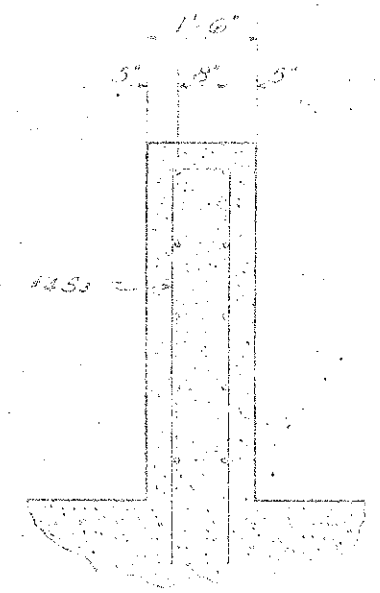
Note: Slabs to have
no. placed inside

Symmetrical about 1/2 of Fig.

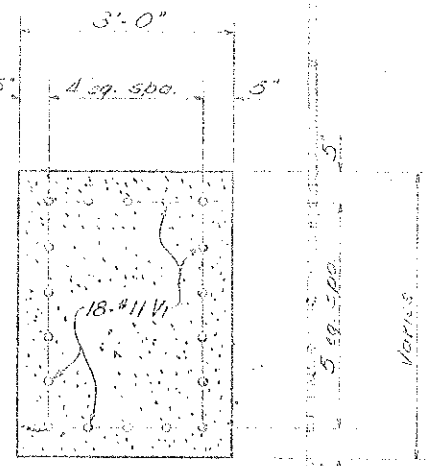
STEEL IN TOP OF FOOTING

STEEL IN BOTTOM OF FOOTING

PLAN OF FOOTING

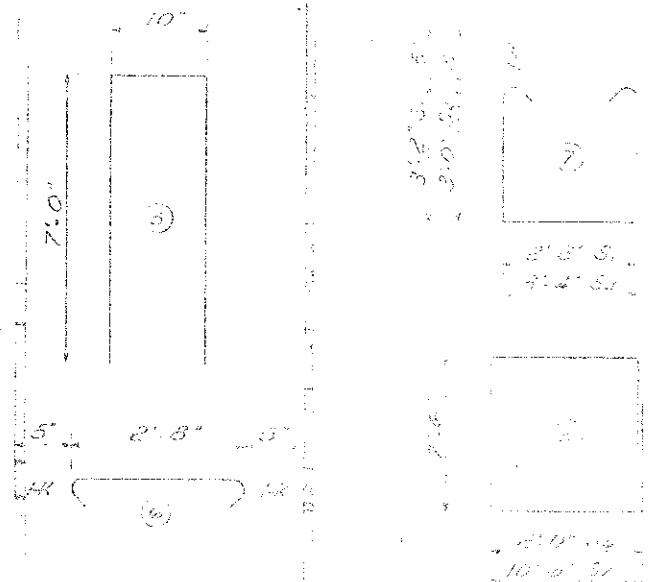


SECTION "B-B"



SECTION THRU COLUMN

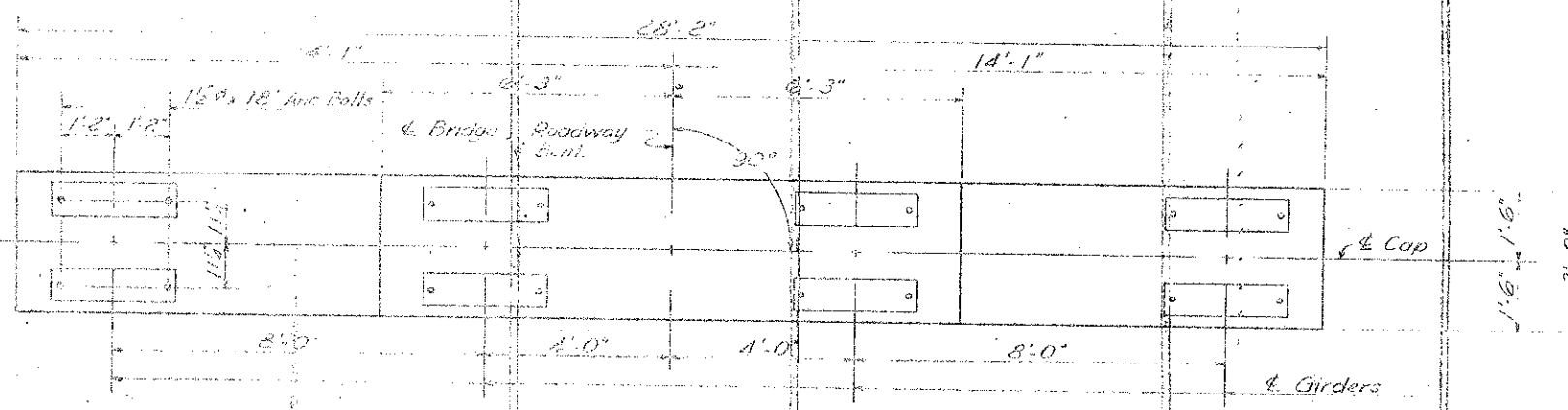
BAR TYPES					BILL OF MATERIAL FOR ONE BENT						
BAR	NO.	SIZE	TYPE	LENGTH	QTY.	BAR	NO.	SIZE	TYPE	LENGTH	QTY.
1-7		27'-0"	101		1-7	b1	7	#11	1	30'-10"	147
7		8'-0"	102		7	b2	5	#11	Slr.	27'-8"	735
7		27'-8"	103		7	b3	4	#2	Slr.	27'-8"	74
8		30'-4"	11		8	b4	16	#5	1	3'-2"	133
8		8'-4"	12		8	b5	10	#5	1	22'-10"	233
						m1	36	#11	2	7'-7"	133
1-7		6'-0"	m1		1-7	s1	35	#5	7	9'-10"	339
1-7		10'-0"	y1		1-7	s2	12	#5	6	3'-8"	37
						s3	17	#2	5	11'-10"	133
						s4	27	#5	7	15'-2"	33
						s5	21	#5	4	9'-3"	23
						s6	2	#11	2	34'-6"	367
						s7	2	#11	2	35'-8"	420
						z1	17	#6	1	31'-8"	303
						z2	11	#8	3	30'-5"	140
						z3	21	#5	1	2'-8"	50
						y1	5	#11	1	20'-7"	37



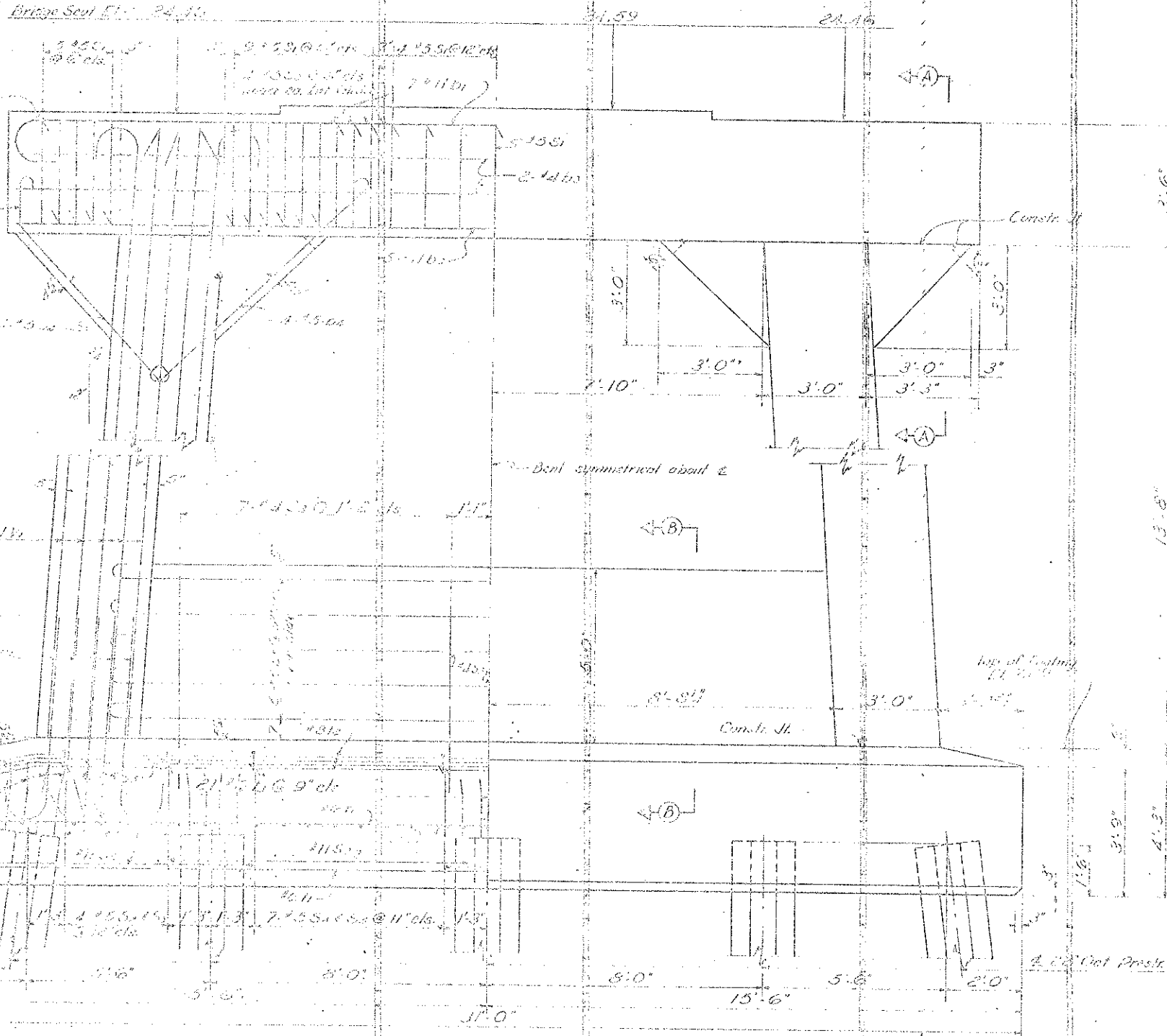
Note: Concrete displaces 1.5 cu yds per cu yd of steel used.

Reinforcing Steel Ltd.
1000 E. Cameron St. - Raleigh, N.C.
22' Del. Prestr. Conc. Piles
No. 10, Ltd.

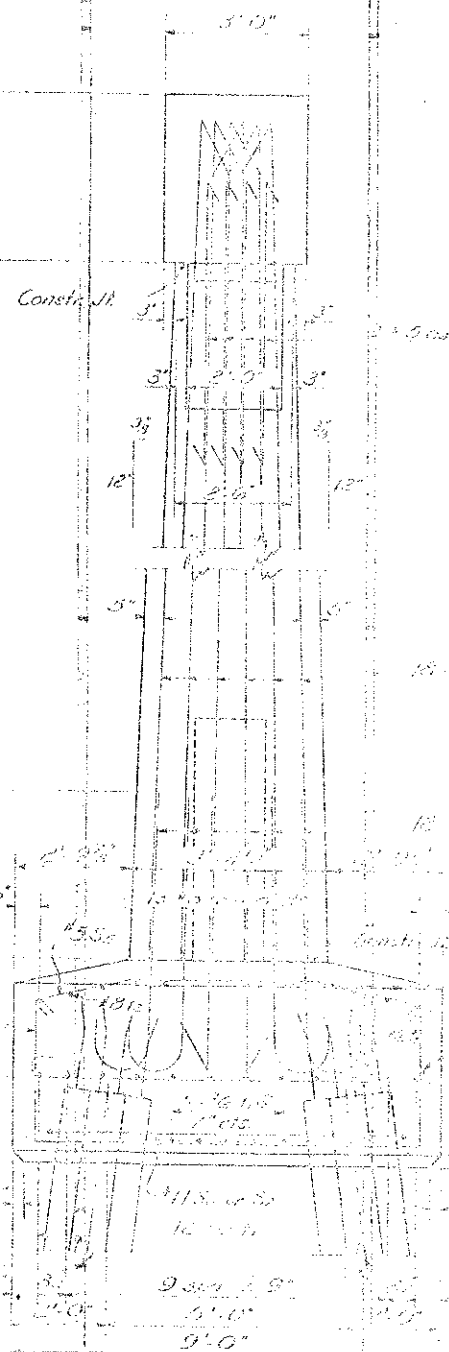
PROJECT NO. 3-21306
 DATE _____ COUNTY _____
 STATION 118+25
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT No 163
 JANUARY 1961



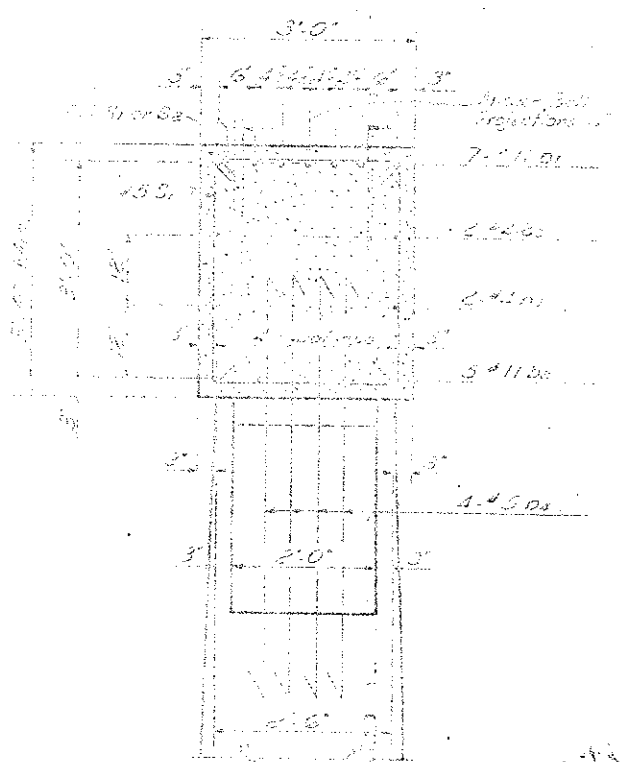
PLAN OF CAP



ELEVATION



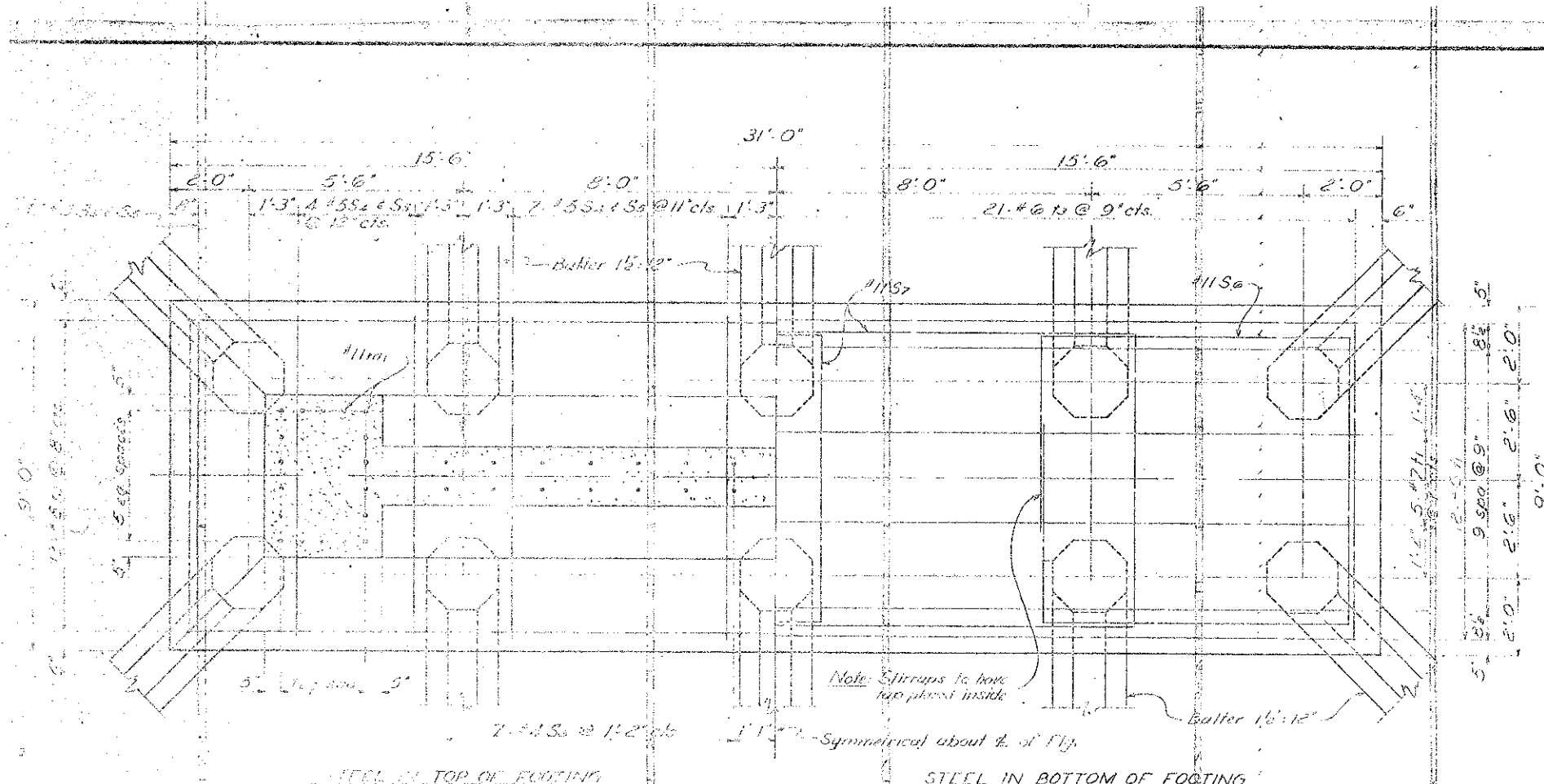
END ELEVATION



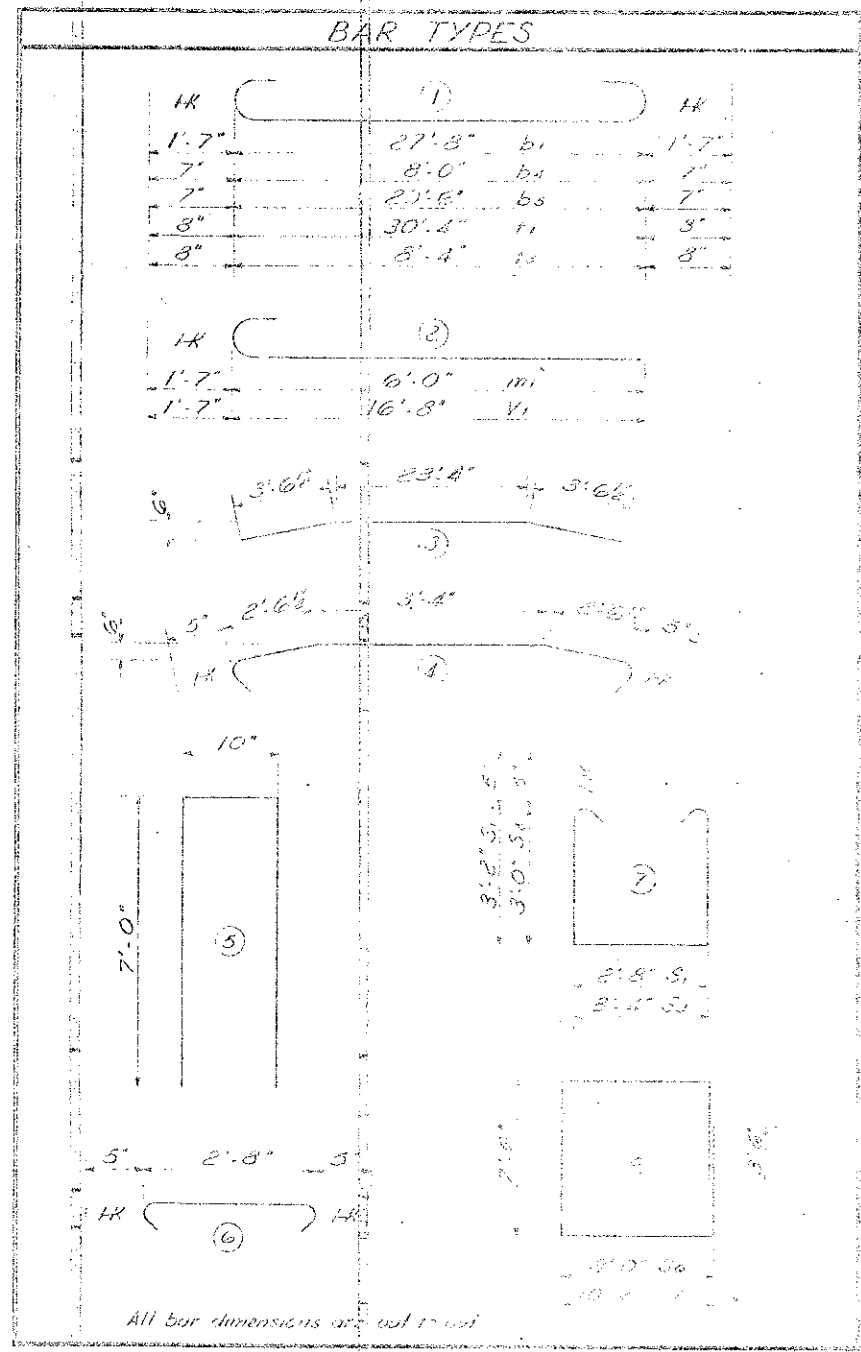
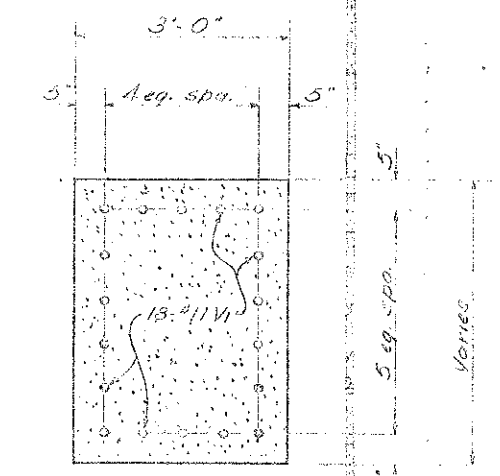
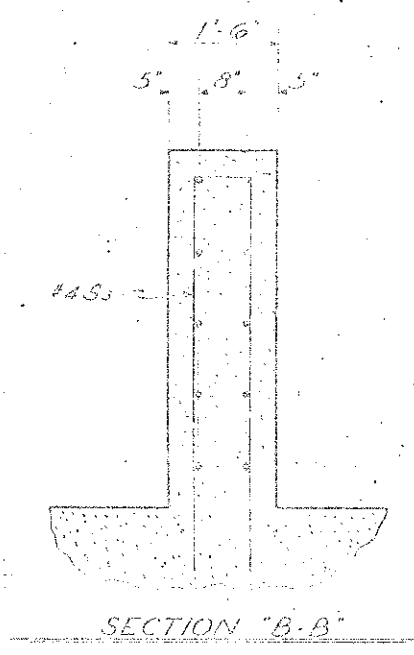
SECTION 2-2

PROJECT NO. 2,2100
 DADE COUNTY
 STATION: 116+25
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENT 116+25
 NOVEMBER 1951

Notes: Care should be taken in driving and hammering to clear under E.C.P.



PLAN OF FOOTING

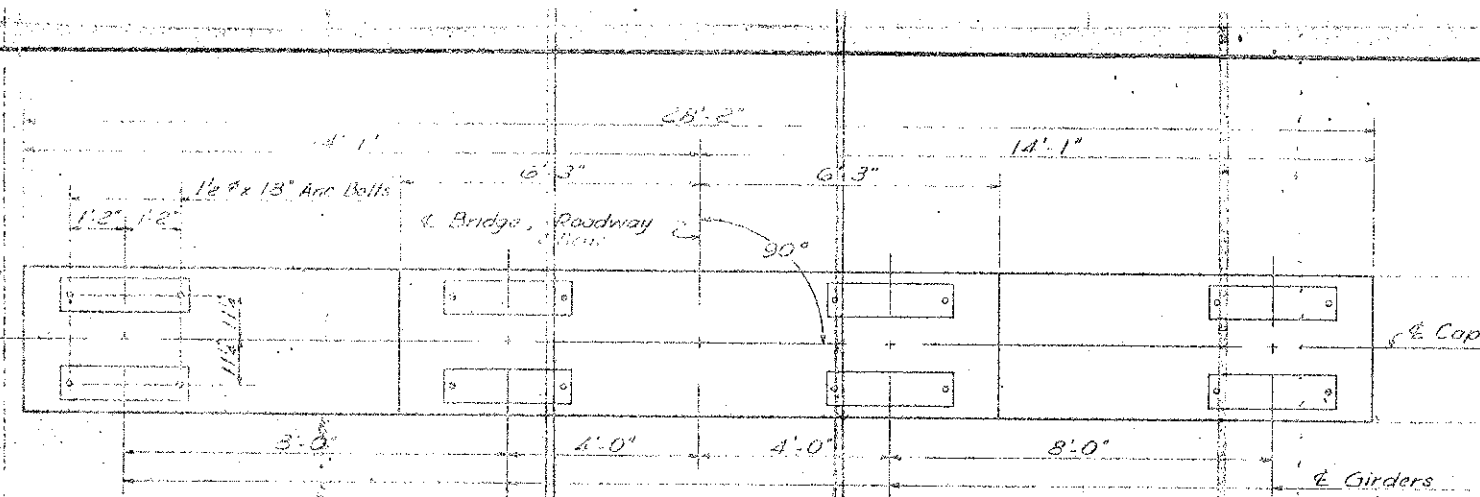


BILL OF MATERIAL FOR ONE BENT					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	7	#11	1	30'-10"	1147
b2	5	#11	5	27'-8"	733
b3	4	#4	5	27'-8"	74
b4	16	#5	1	9'-2"	153
b5	10	#5	1	21'-8"	228
m1	36	#11	2	7'-7"	1430
s1	35	#5	7	9'-10"	359
s2	10	#5	2	3'-6"	37
s3	15	#4	5	14'-10"	167
s4	24	#5	7	15'-2"	357
s5	24	#5	4	9'-3"	222
s6	2	#11	8	34'-5"	527
s7	2	#11	8	39'-5"	420
v1	17	#6	1	31'-8"	303
v2	13	#6	3	30'-5"	1026
v3	41	#6	1	9'-8"	578
v4	32	#11	2	18'-3"	311

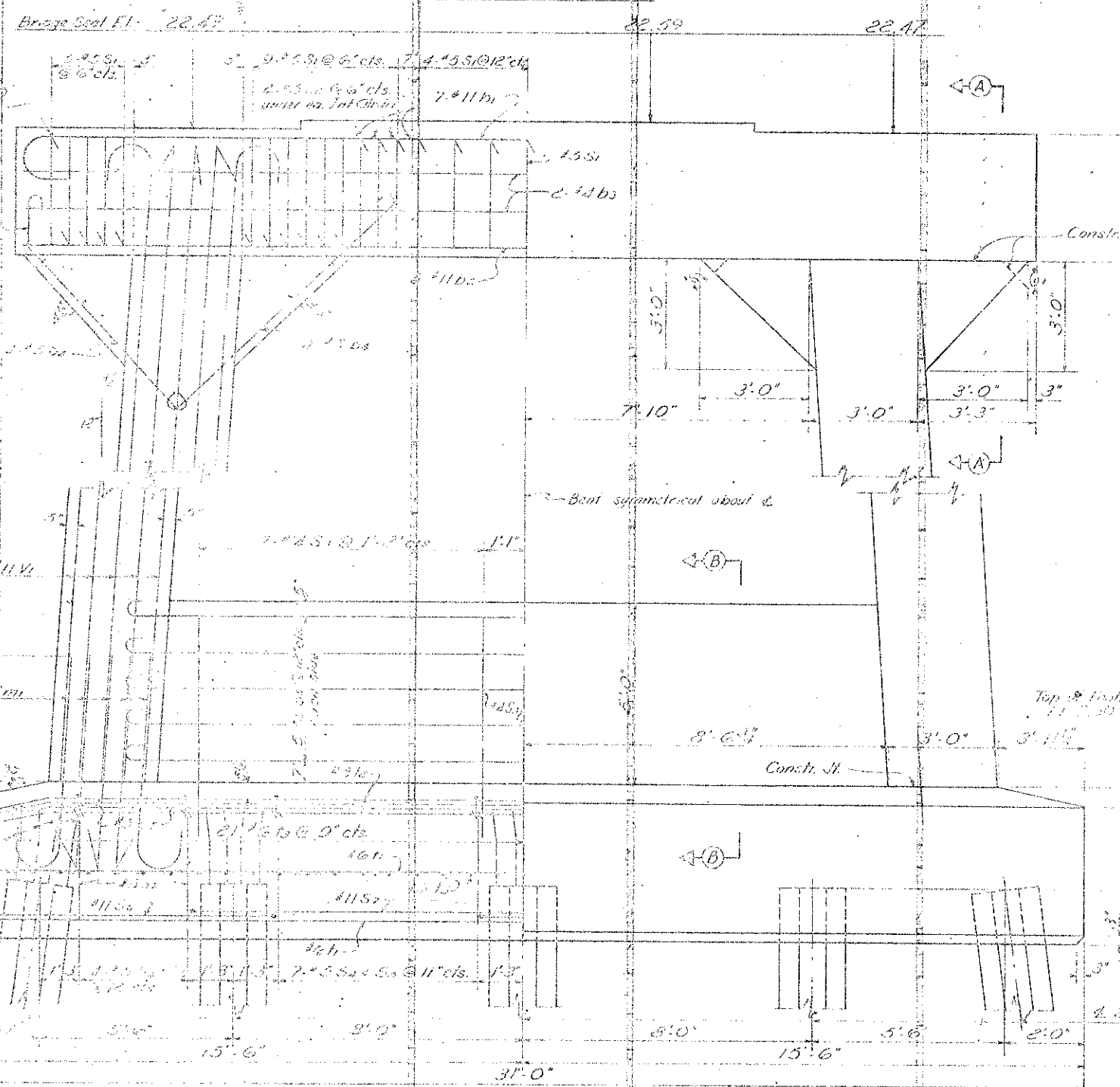
Reinforcing Steel Lbs. = 1112
 Class "B" Concrete C1100
 28 Day Comp. Conc. Pile
 14,15 - 144 Ft - 3.71

PROJECT NO. 2-21306
 DATE COUNTY
 STA. 18+25

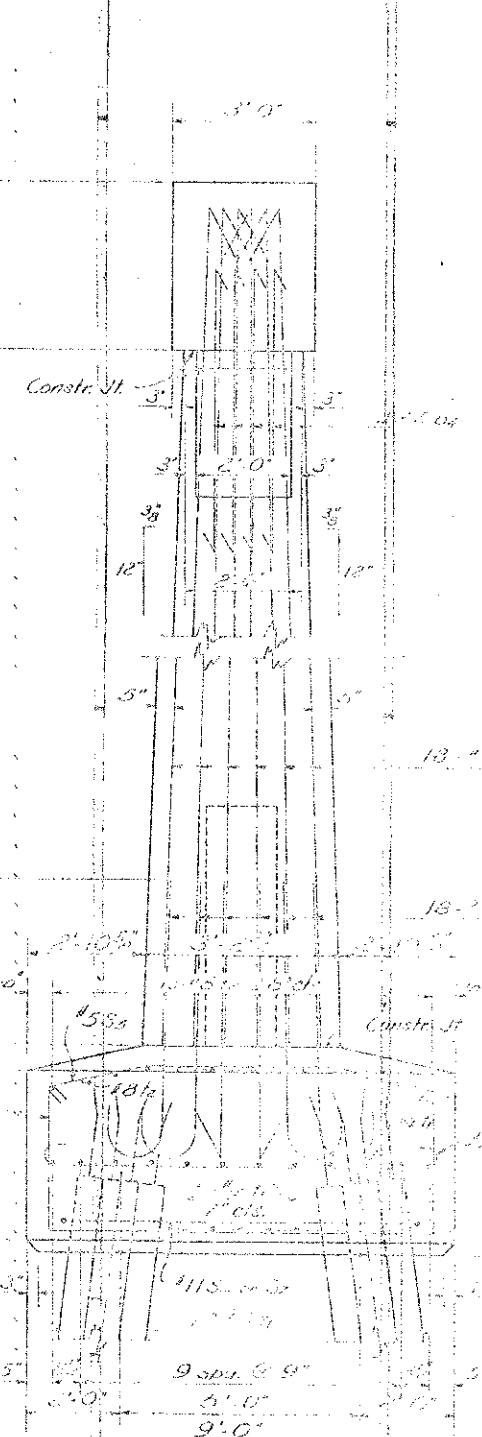
Sheet No.
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 DIVISION
 STRUCTURE
 BENT No. 164
 NOVEMBER 1961



PLAN OF CAP

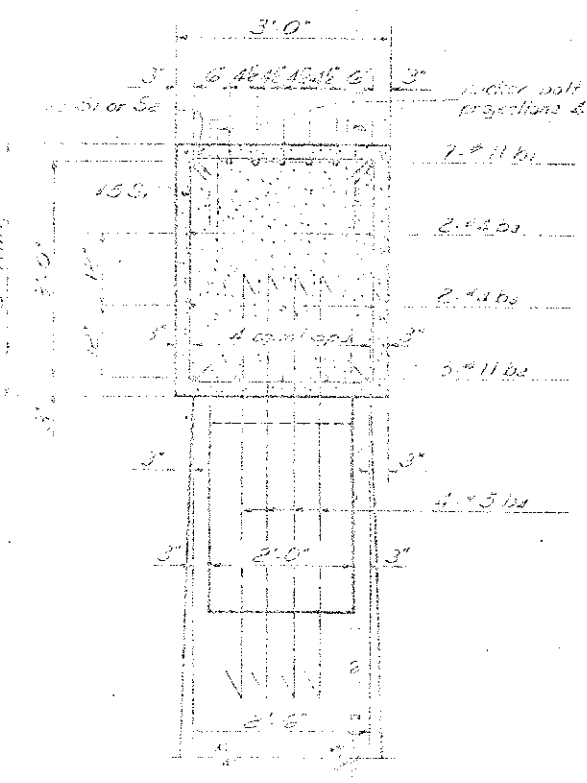


ELEVATION



END ELEVATION

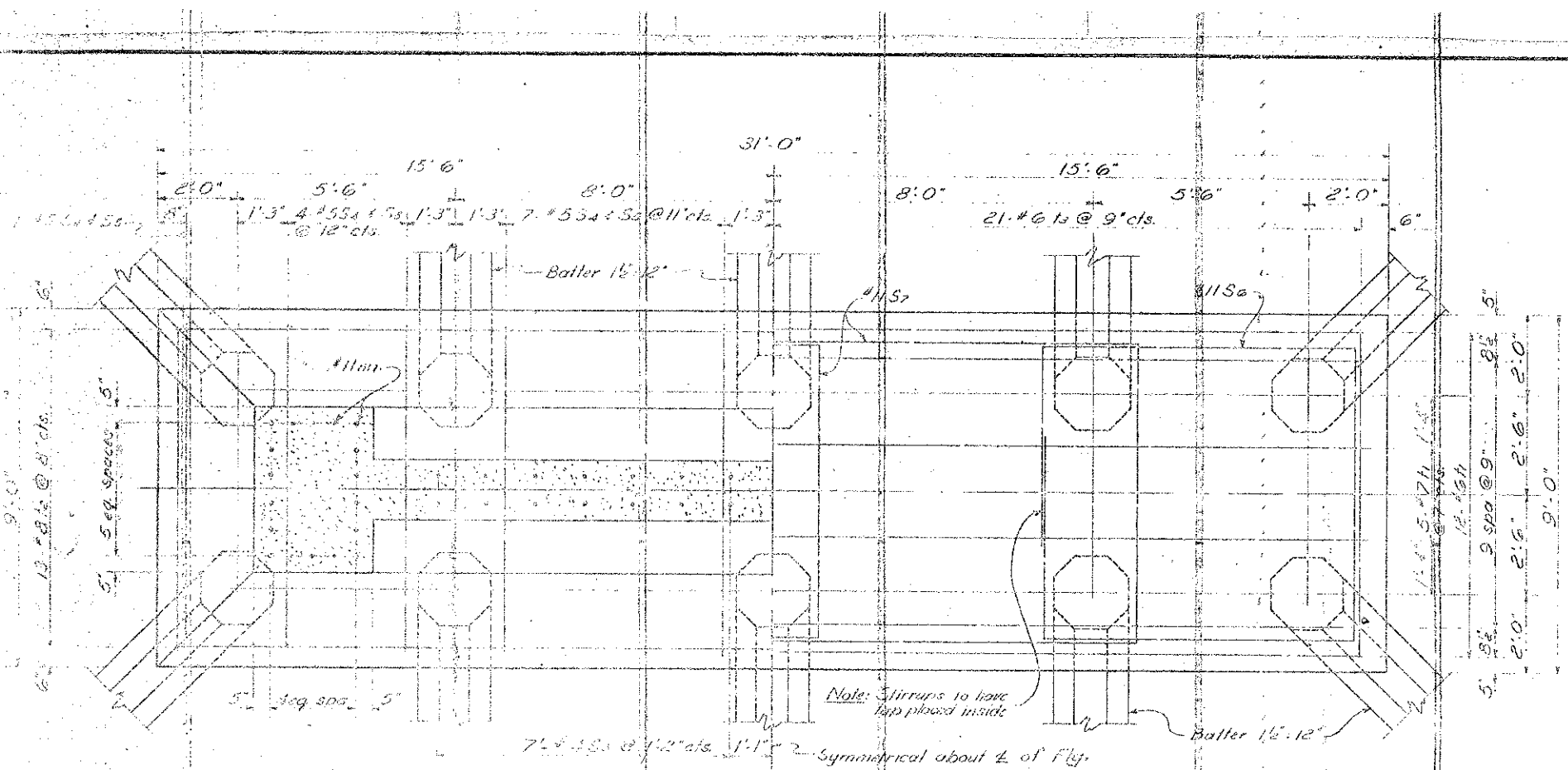
Note: All cracks to be taken in pouring cap referring to cast anchor bolts.



SECTION A-A

PROJECT NO. 8 21306
LAPE COUNTY
STATION: 116+25

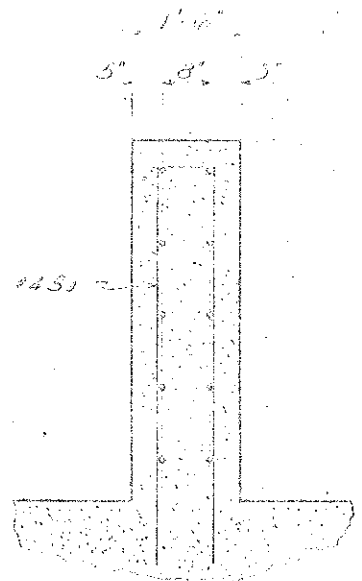
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUBSTRUCTURE
BENT No. 135
NOVEMBER 1961



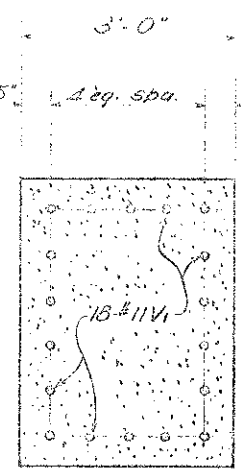
STEEL IN TOP OF FOOTING

STEEL IN BOTTOM OF FOOTING

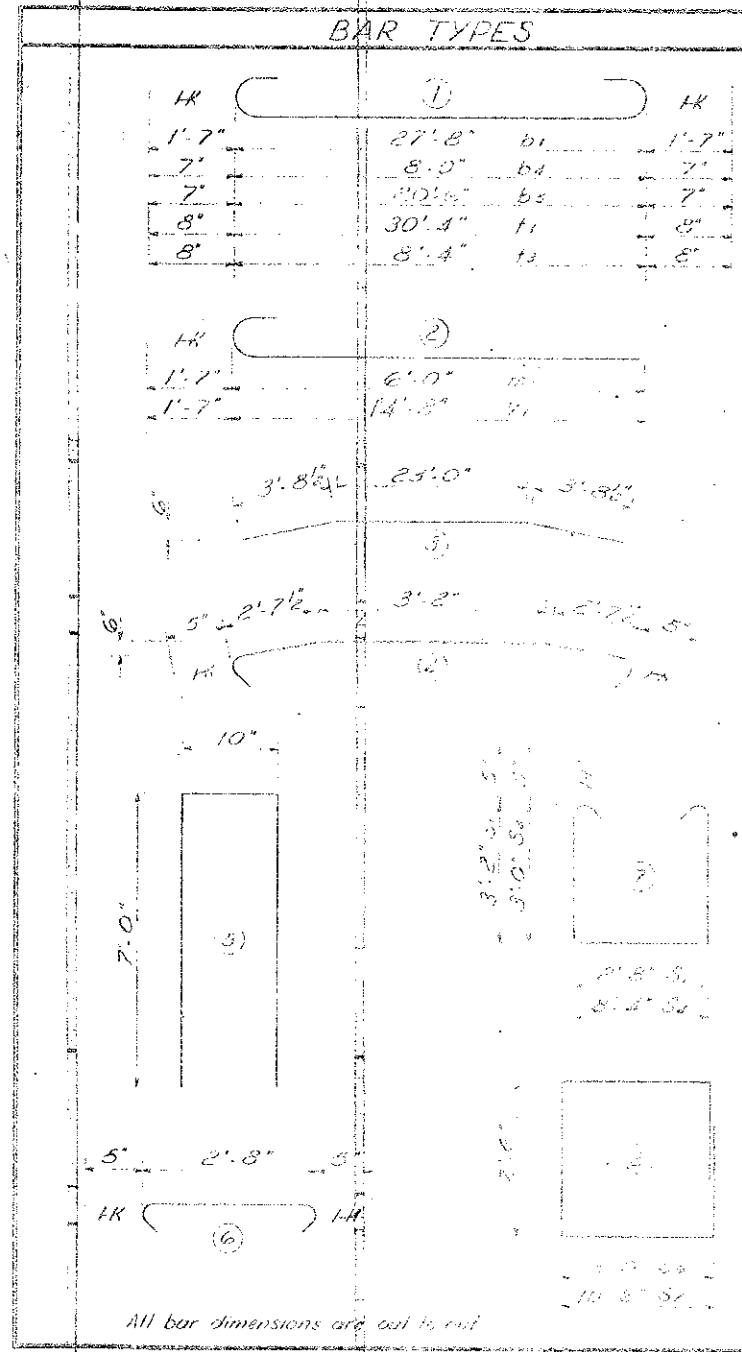
PLAN OF FOOTING



SECTION "B-B"



SECTION THRU COLUMN



All bar dimensions are cut to cut

* Notes: Concrete displaced by bars has been deducted.

BILL OF MATERIAL FOR ONE BENT

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	#11	1	30'-10"	1,147
b2	#11	Str.	27'-8"	735
b3	#4	Str.	27'-8"	74
b4	#5	1	9'-2"	153
b5	#5	1	21'-8"	235
m1	#11	2	7'-7"	1,250
S	#5	7	9'-10"	359
S2	#5	6	3'-6"	37
S3	#4	5	14'-10"	132
S4	#5	7	15'-2"	302
S5	#5	4	9'-3"	235
S6	#11	8	34'-6"	367
S7	#11	8	39'-8"	420
S8	#6	1	3'-6"	32
S9	#5	3	25'-5"	192
S10	#6	1	9'-0"	72
S11	#11	2	10'-5"	135

Reinforcing Steel Lbs.
Class A Concrete Co. Inc.
22 Oct. Fresh Conc. Pits
No. 10 - Lin Ft. - 100

PROJECT NO. 8-21306

DATE COUNTY

STATION 116-25

Sheet 1 of 2

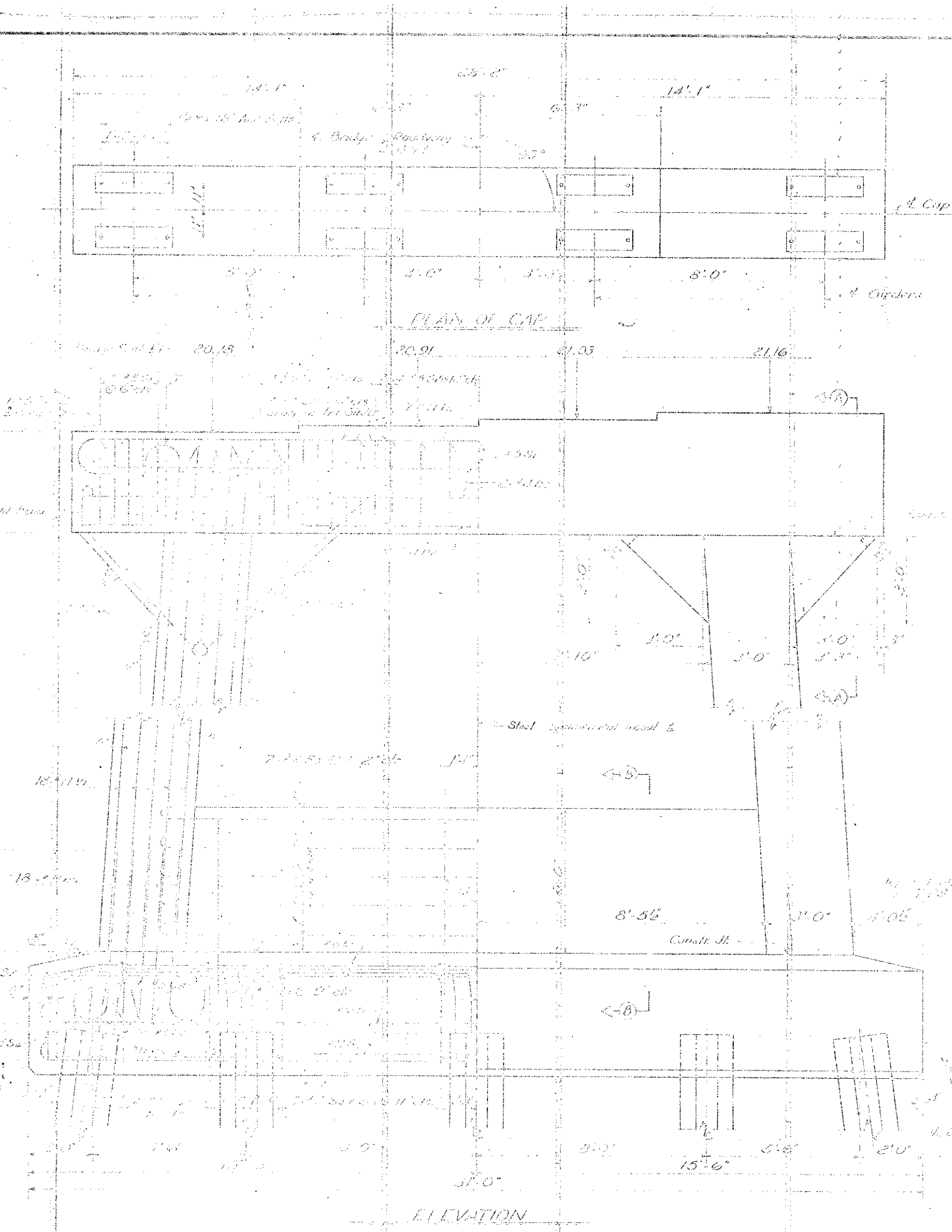
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
BENT No. 165

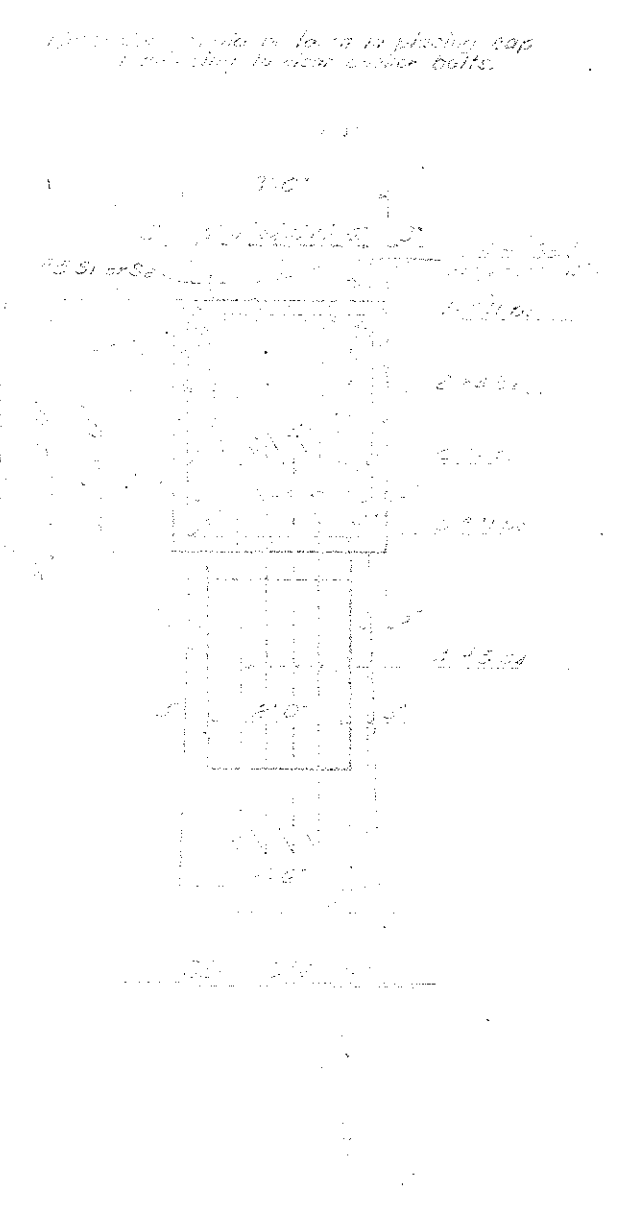
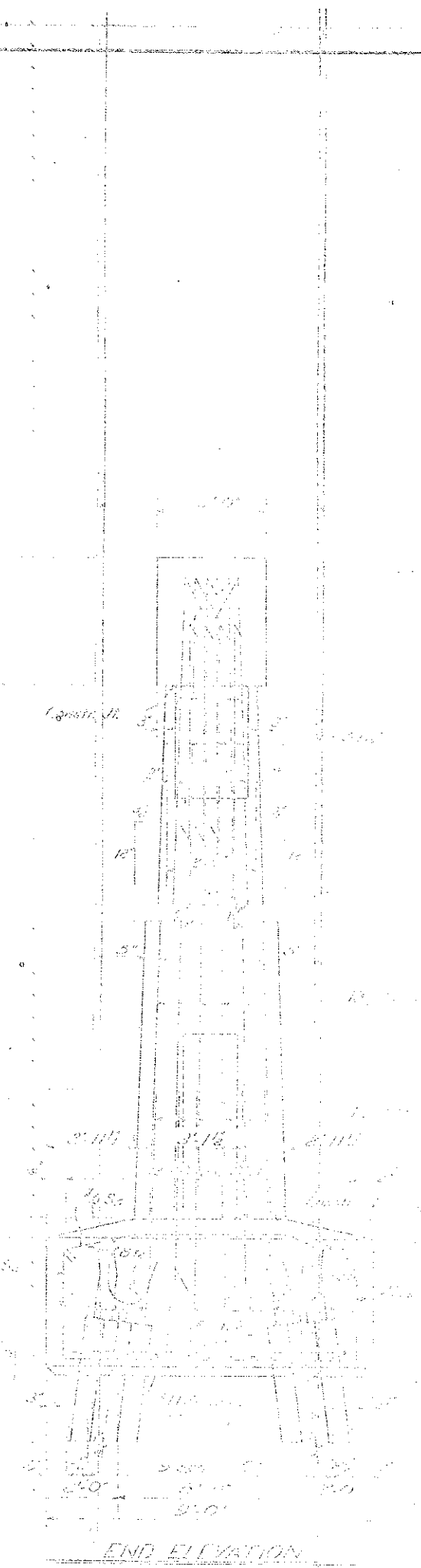
APPROVED 1961

NO.	DATE	BY
1	8/2/58	J. C. ...
2	8/2/58	J. C. ...
3	8/2/58	J. C. ...

F. A. PROJECT 2-125 (1)



7'-8" / 1'-5"
 3'-0"
 2'-6"
 10'-0"
 3'-0"
 1'-6"
 1'-5"
 1'-5"
 1'-5"
 1'-5"
 1'-5"
 1'-5"

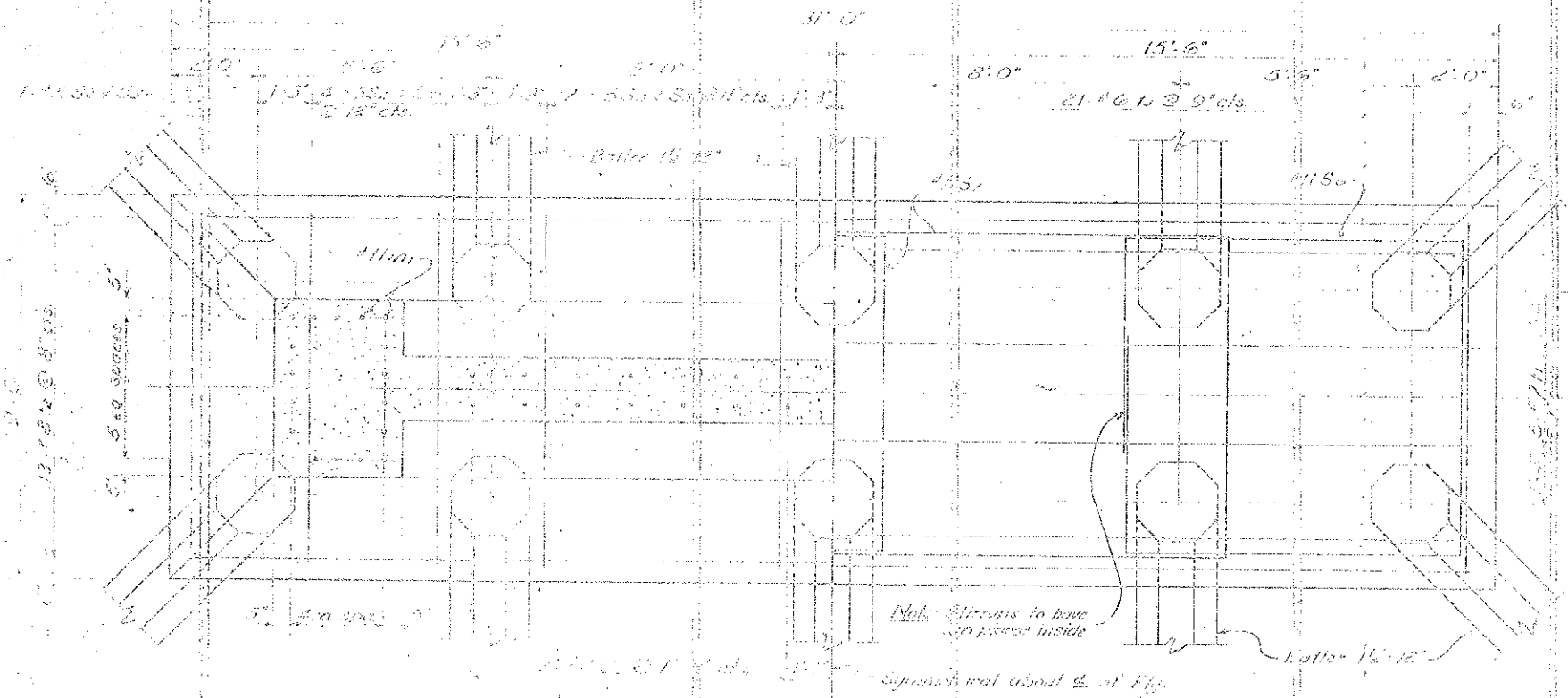


PROJECT NO. 2-125
 LENOIR COUNTY
 STATION 16+05

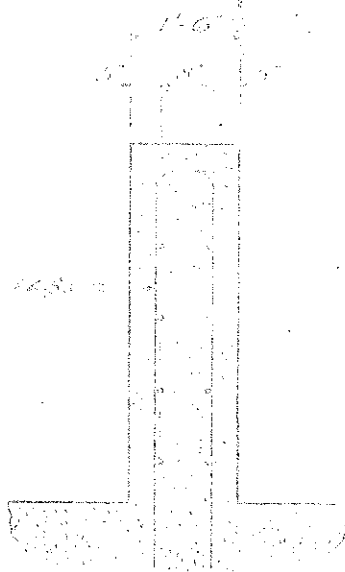
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BEAM No 165

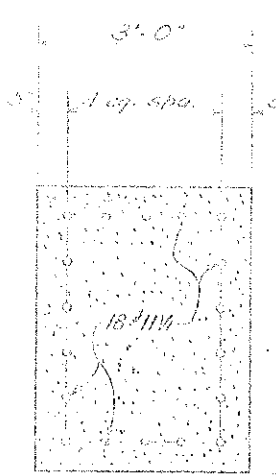
8/2/58 1961



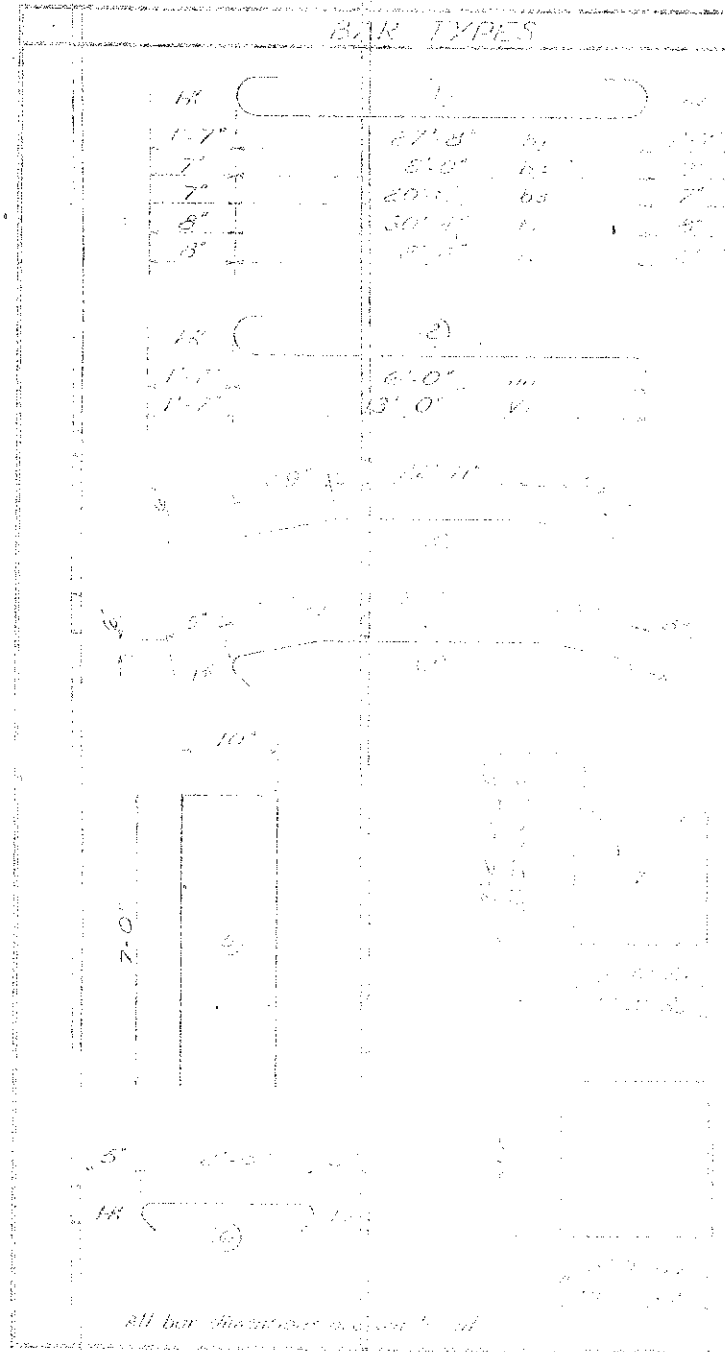
PLAN OF FOOTING



SECTION "D-D"



SECTION THRU COLUMN



All bar dimensions are on face

BILL OF MATERIAL FOR ONE BENT

NO.	QTY.	SIZE	TYPE	LENGTH	WEIGHT
01	7	#11	U	30'-10"	1147
02	3	#11	S	27'-6"	733
03	3	#4	S	27'-8"	724
04	12	#5	U	9'-2"	153
05	10	#5	U	21'-6"	325
06	36	#11	U	7'-7"	1450
07	33	#8	U	3'-10"	339
08	19	#3	U	3'-6"	37
09	15	#2	U	14'-11"	155
10	24	#3	U	7'-10"	350
11	22	#3	U	9'-3"	213
12	2	#3	U	34'-1"	367
13	1	#3	U	39'-3"	420
14	1	#3	U	1'-1"	303
15	13	#3	U	20'-1"	358
16	1	#3	U	2'-5"	325
17	30	#11	U	10'-2"	610

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
BENT No. 152