

DATE	PROJECT NO.
11-22-40	8-11028
PROJECT F 75-4(2)	

Sheet S-N.
 will be 39 ft.
 for Bent
 2 ft. For

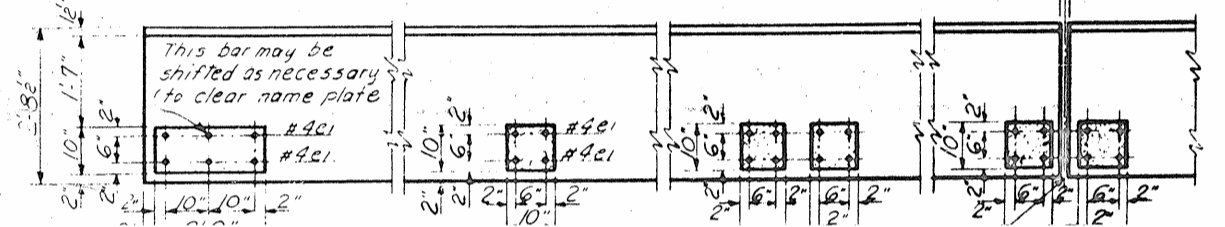
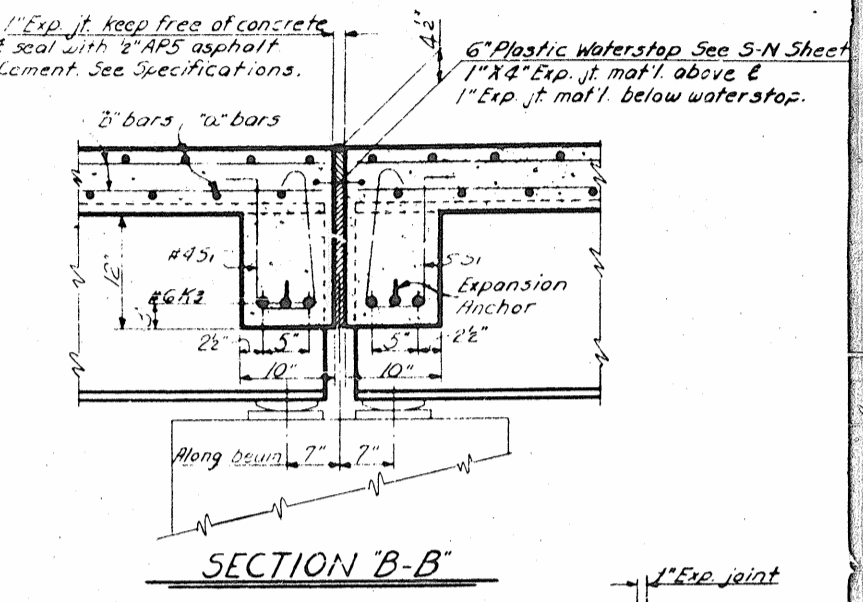
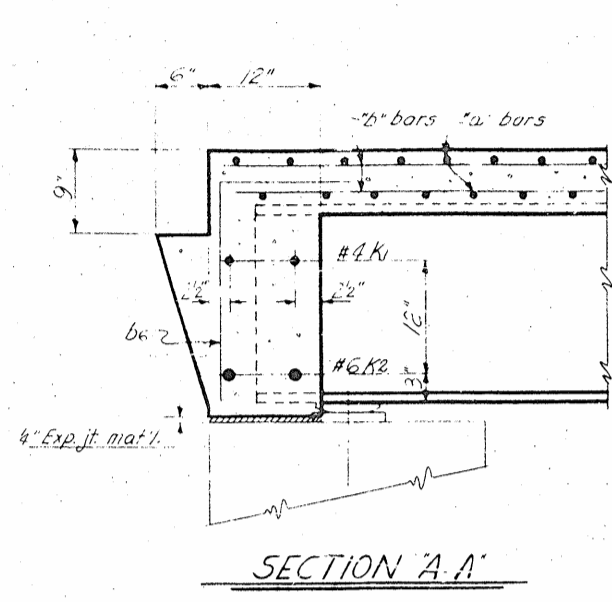
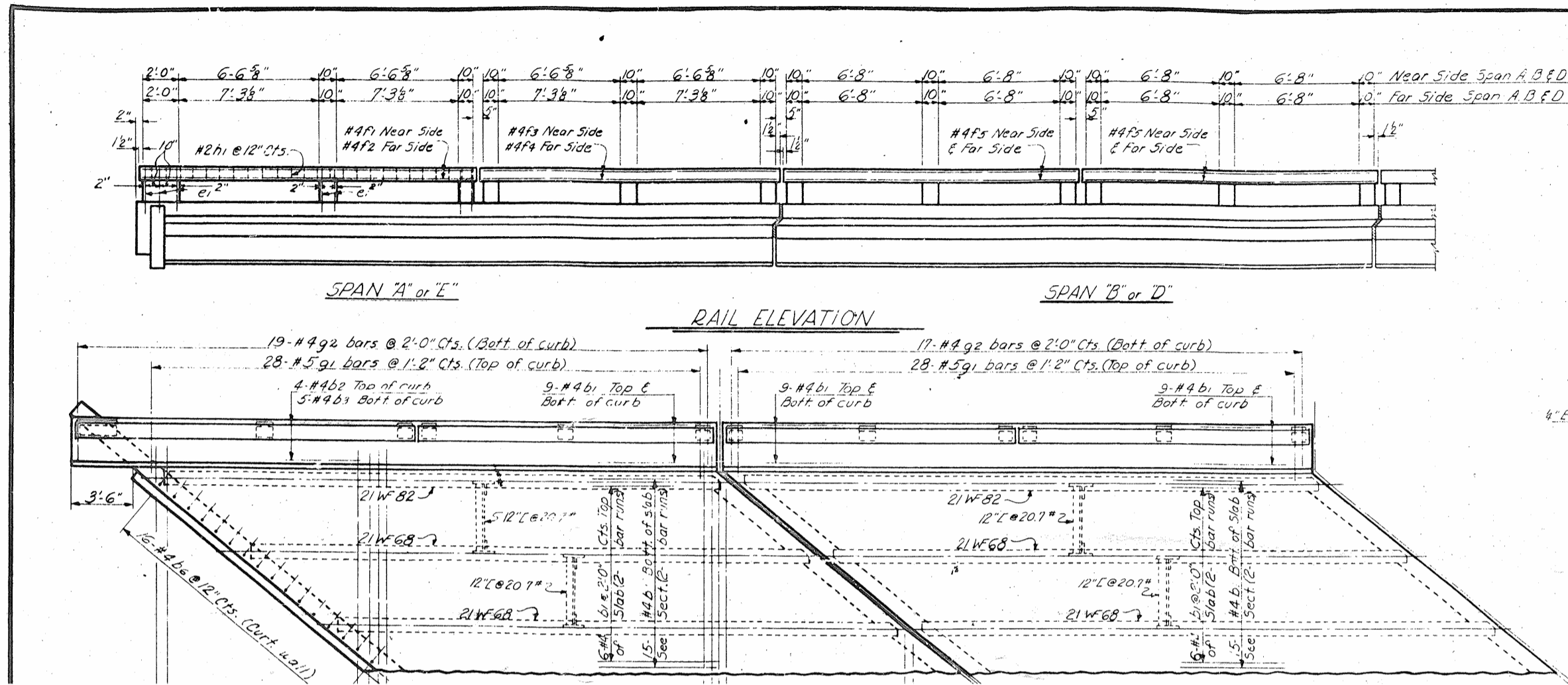
driven to
 Piles for
 to a minimum

totally
 Bent No. 4,
 sheet S-N.

in 1940.
 actual span
 resident
 determine
 are correct.

bed
 way

REP. ROAD SECTION	STATE	PROJECT NO.
3	N.C.	8-1102
P. A. PROJECT F 75-4(2)		



PROJECT NO. 811028
75-4(2)

3-N Sheet
for set.

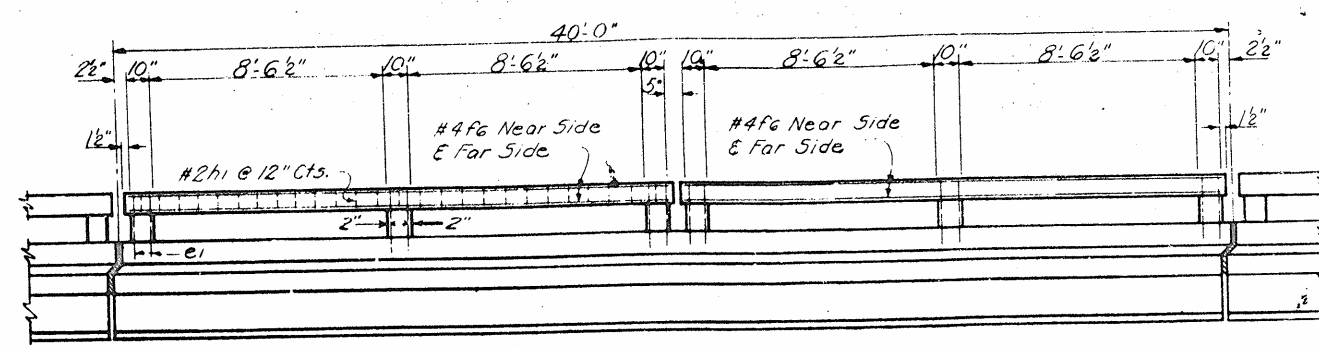
Joint

Joint

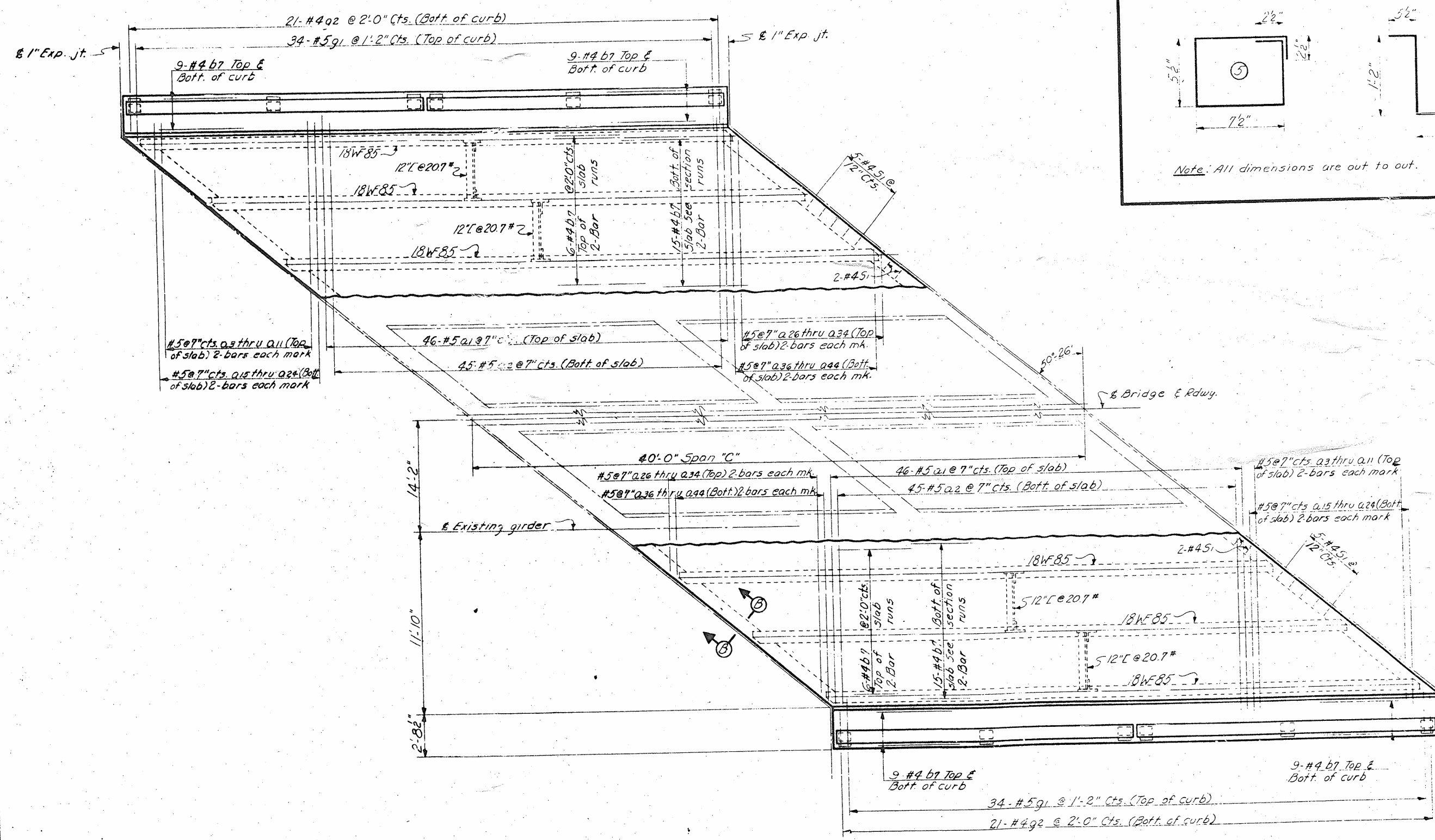
1028
JNTY
2.05

INA
SECTION

5-2
12

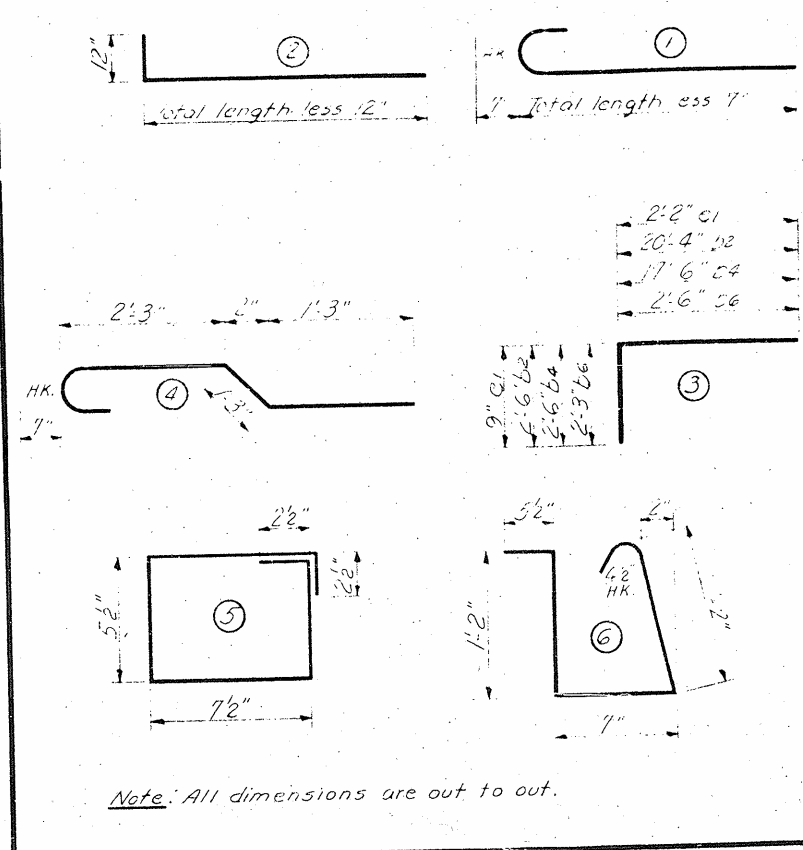


RAIL ELEVATION ~ SPAN 'C'



PLAN ~ SPAN 'C'

BAR BENDING DETAILS



TOTAL BILL OF MATERIAL FOR SPANS 'A' 'B' 'C' 'D' & 'E'

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
01	304	#5	12'-2"	4,619	f1	8	#4	Str	16'-9"	90
02	304	#5	12'-5"	4,586	f2	8	#4	Str	18'-2"	97
03	20	#5	11'-3"	235	f3	8	#4	Str	15'-7"	83
04	20	#5	10'-3"	214	f4	8	#4	Str	17'-0"	91
05	20	#5	9'-4"	195	f5	32	#4	Str	15'-10"	338
06	30	#5	8'-4"	174	f6	16	#4	Str	19'-7"	209
07	30	#5	7'-5"	155						
08	30	#5	6'-5"	134						
09	20	#5	5'-6"	115	g1	292	#5	4	5'-4"	1624
10	20	#5	4'-6"	94	g2	182	#4	Str	2'-4"	284
11	20	#5	3'-6"	73						
15	20	#5	11'-9"	245						
16	20	#5	10'-9"	224	h1	348	#2	5	2'-7"	150
17	20	#5	9'-10"	205						
18	20	#5	8'-10"	184						
19	20	#5	7'-11"	165						
20	20	#5	6'-11"	144	k1	8	#2	Str	20'-11"	112
21	20	#5	5'-11"	123	k2	8	#6	Str	20'-11"	251
22	20	#5	4'-0"	104	k3	32	#6	Str	15'-11"	765
23	20	#5	3'-1"	83						
24	20	#5	2'-1"	62						
26	20	#5	9'-9"	203	51	192	#4	6	3'-9"	481
27	20	#5	8'-10"	184						
28	20	#5	7'-10"	163						
29	20	#5	6'-11"	144						
30	20	#5	5'-11"	123						
31	20	#5	5'-0"	104						
32	20	#5	4'-0"	83						
33	20	#5	3'-1"	64						
34	20	#5	2'-1"	43						
36	20	#5	9'-10"	205						
37	20	#5	8'-11"	186						
38	20	#5	7'-11"	165						
39	20	#5	7'-0"	146						
40	20	#5	6'-0"	125						
41	20	#5	5'-1"	106						
42	20	#5	4'-1"	85						
43	20	#5	3'-1"	64						
44	20	#5	2'-2"	45						
b1	444	#4	Str	16'-10"	4,993					
b2	8	#4	3	22'-10"	122					
b3	10	#4	Str	20'-4"	136					
b4	8	#4	3	20'-0"	107					
b5	10	#4	Str	17'-6"	117					
b6	64	#4	3	4'-9"	203					
b7	120	#4	Str	20'-7"	1,650					
c1	43	#4	3	2'-11"	483					
									Reinforcing Steel Lbs.	26,758
									Structural Steel Approx. Lbs.	83,700
									Class 'A' Conc. Cu. Yds.	144.0

PROJECT NO. 811028...
BEAUFORT COUNTY
STATION: 109+20.05

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUPERSTRUCTURE
SPAN 'C'

JUNE 1962

5-3
12

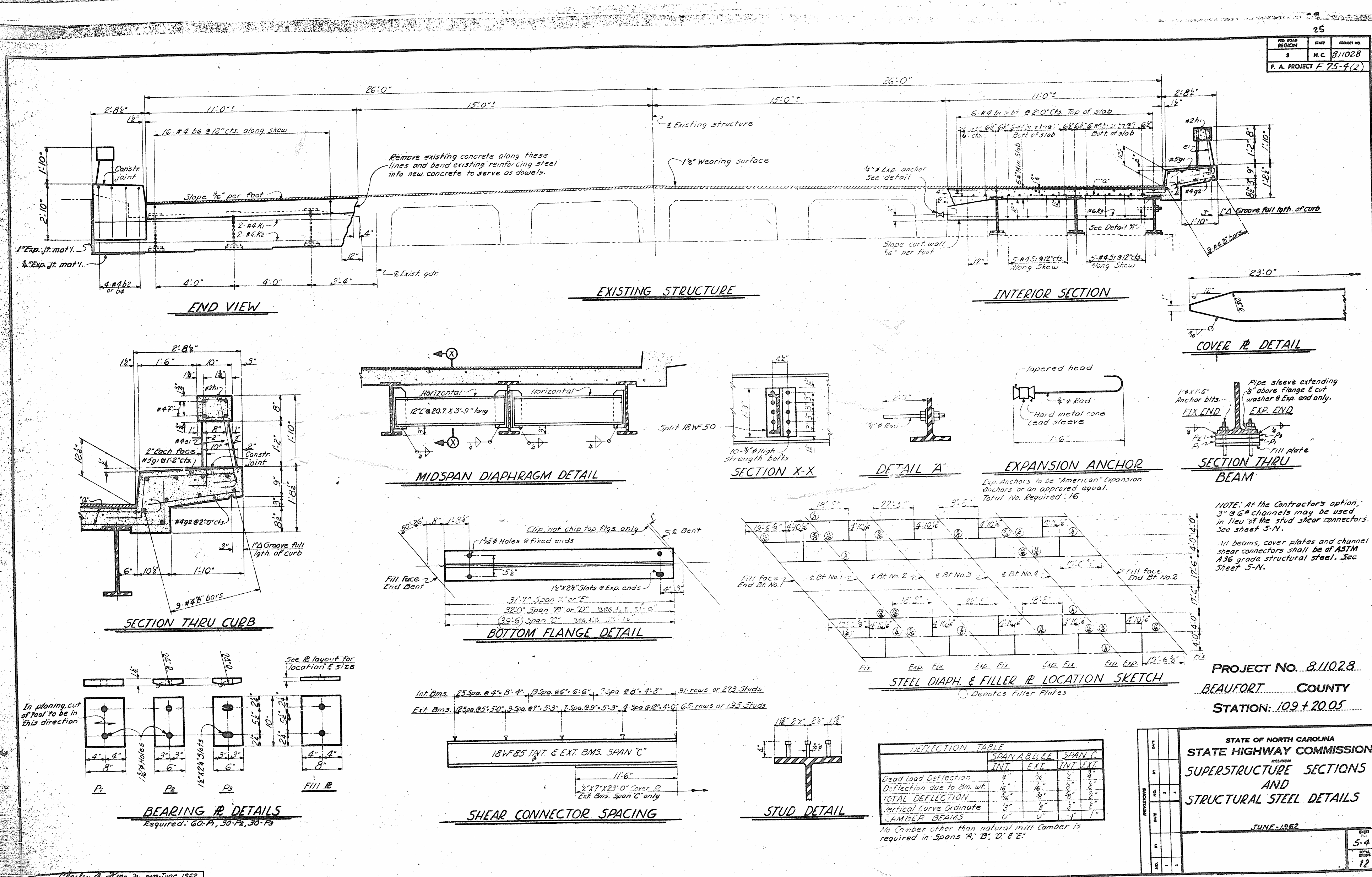
DRAWN BY: [Signature] DATE: June 1962
CHECKED BY: [Signature] DATE: June 1962

SP. NO.	LENGTH	WEIGHT
1	16'-9"	90
2	13'-2"	97
3	15'-7"	83
4	17'-0"	91
5	15'-10"	338
6	19'-7"	209
7	5'-4"	1624
8	2'-4"	284
9	2'-7"	150
10	20'-11"	112
11	26'-11"	251
12	15'-11"	765
13	3'-9"	481
14	26'-11"	26,738
15	26'-11"	83,700
16	14'-0"	144.0

No. 811028...
 COUNTY
 109+20.05

NORTH CAROLINA
 HIGHWAY COMMISSION
 STRUCTURE
 C

DATE
 5 3
 12



REP. ROAD REGION	STATE	PROJECT NO.
3	N.C.	811028

F. A. PROJECT F 75-4(2)

NOTE: At the Contractor's option, 3" @ 6" channels may be used in lieu of the stud shear connectors. See sheet 5-N.
 All beams, cover plates and channel shear connectors shall be of ASTM A36 grade structural steel. See Sheet 5-N.

PROJECT No. 811028...
 BEAUFORT COUNTY
 STATION: 109+20.05

	SPAN A, B, D, E		SPAN C	
	INT.	EXT.	INT.	EXT.
Dead Load Deflection	4"	16"	2"	8"
Deflection due to 3m. wt.	16"	16"	8"	8"
TOTAL DEFLECTION	20"	32"	10"	16"
Vertical Curve Ordinate	5"	5"	5"	5"
CAMBER BEAMS	0"	0"	1"	1"

No Camber other than natural mill camber is required in Spans A, B, D, & E.

STATE OF NORTH CAROLINA
 HIGHWAY COMMISSION
 SUPERSTRUCTURE SECTIONS
 AND
 STRUCTURAL STEEL DETAILS

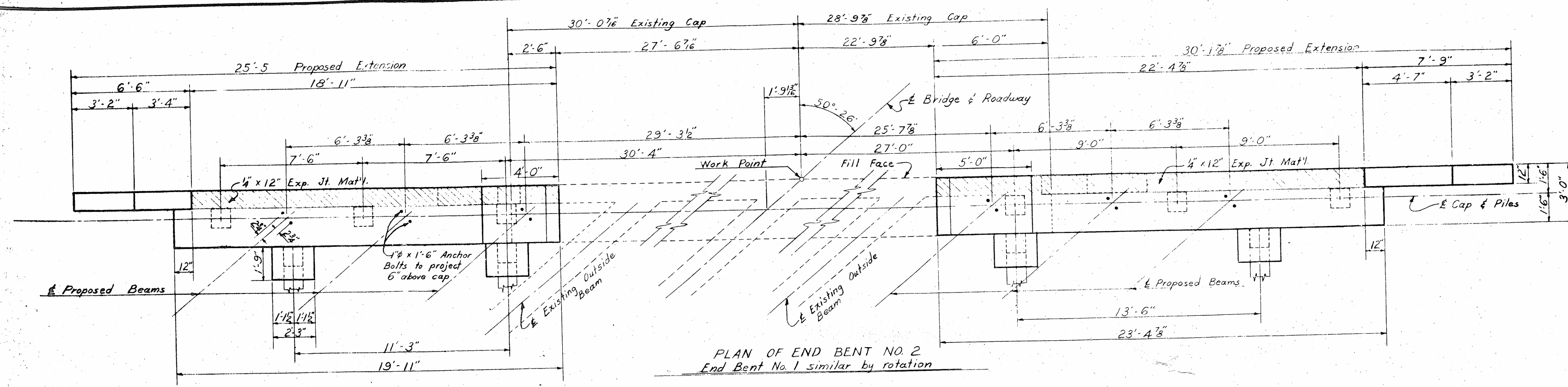
JUNE-1962

DATE
 5-4
 12

DRAWN BY: [Signature] DATE: June 1962
 CHECKED BY: [Signature] DATE: June 1962

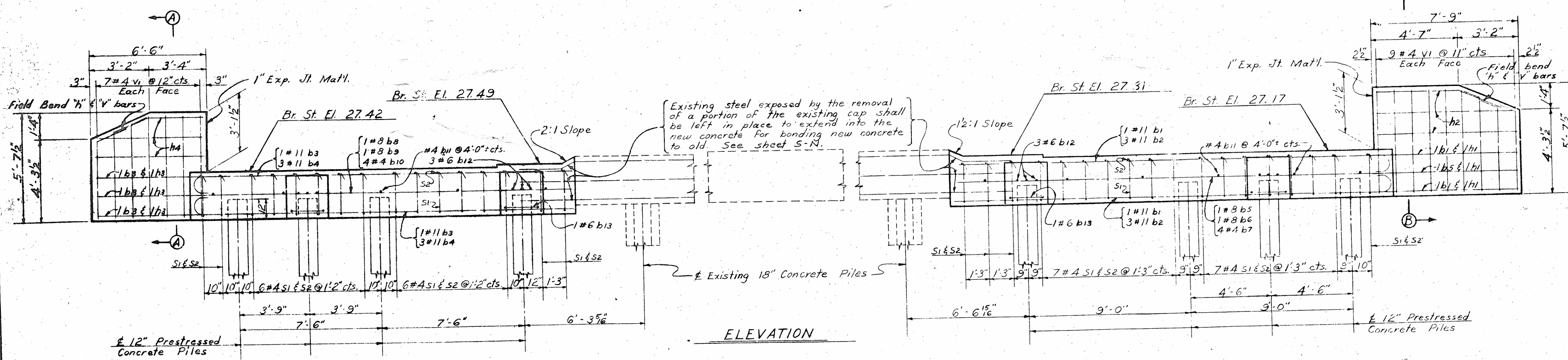
STATE PROJECT
N.C. 811028
26

NO. 104
DIST. NO. 3
F. A. PRO.

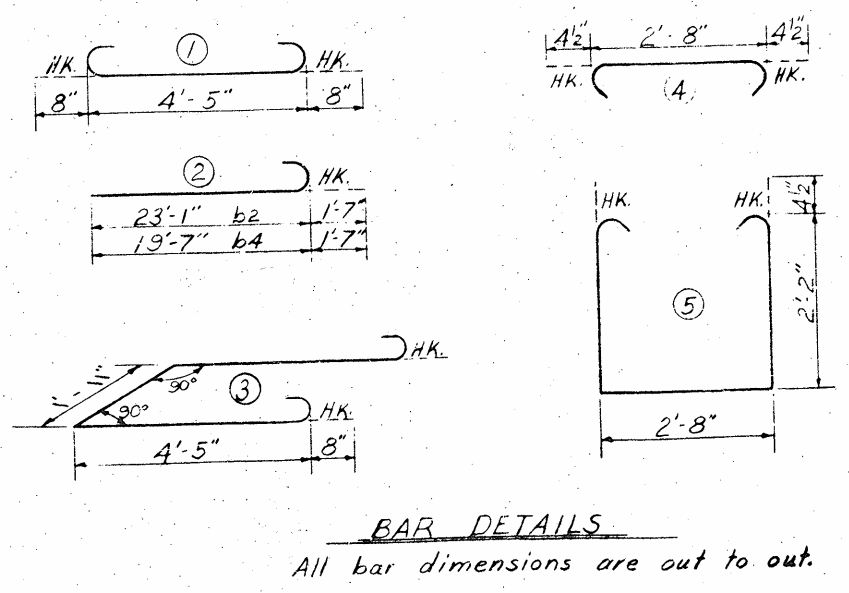
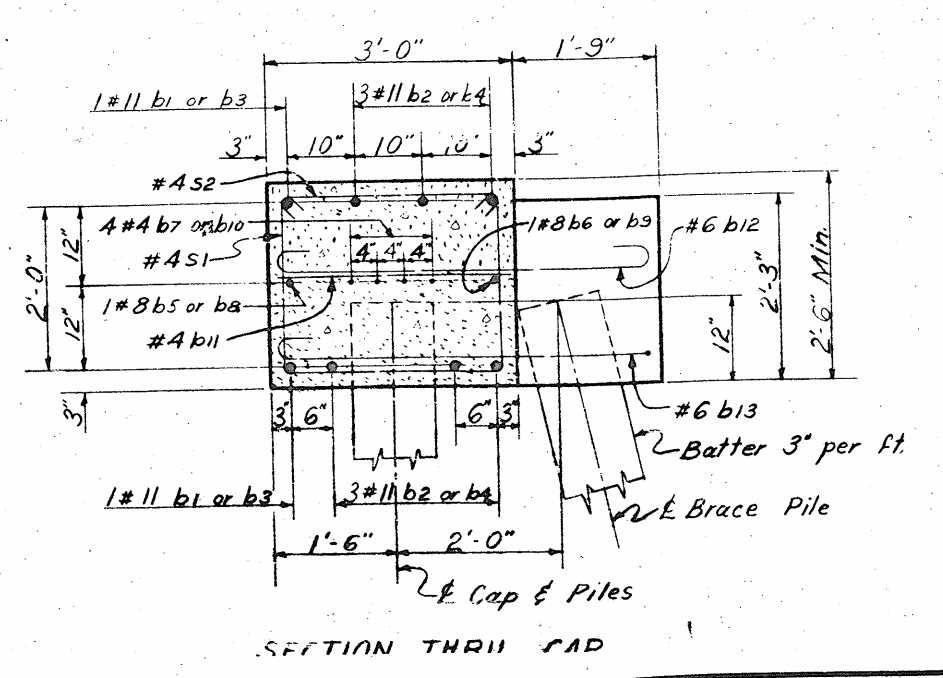
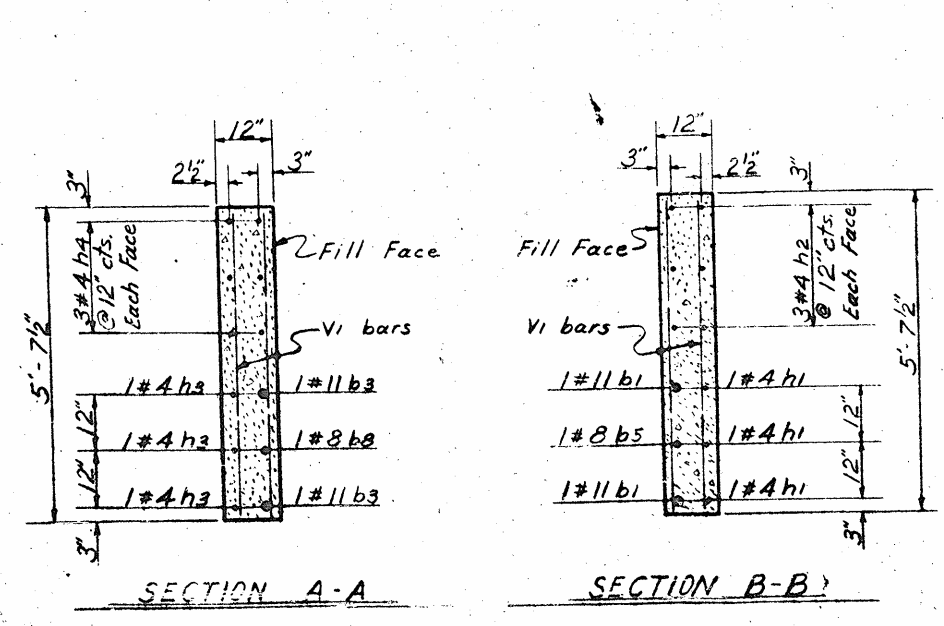


**BILL OF M.
FOR ONE BENT**

BAR NO.	NO.	SIZE	TYPE
b1	2	#11	STR.
b2	6	#11	STR.
b3	2	#11	STR.
b4	6	#11	STR.
b5	1	#8	STR.
b6	1	#8	STR.
b7	4	#4	STR.
b8	1	#8	STR.
b9	1	#8	STR.
b10	4	#4	STR.
b11	11	#4	STR.
b12	12	#6	STR.
b13	4	#6	STR.
h1	3	#4	STR.
h2	6	#4	STR.
h3	3	#4	STR.
h4	6	#4	STR.
s1	34	#4	STR.
s2	34	#4	STR.
v1	32	#4	STR.



Reinforcing Steel, Lbs. = 3,070
Class 'A' Concrete, Cu. Yds. = 15.5
12\"/>



PROJECT NO. 811028
BEAUFORT COUNTY
STATION: 109+20.05

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
END BENT NO. 1 & 2

June, 1962

NO.	BY	DATE	NO.	BY	DATE
1			2		
2			3		

LECTIONS (Checked)

NO.	DESCRIPTION	CHECKED
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

811028
COUNTY
20.05
APOLINA
MISSION
ONS
UP
SCREDS
1551

DATE	SHEET NO.	TOTAL SHEETS
5-5	5	12

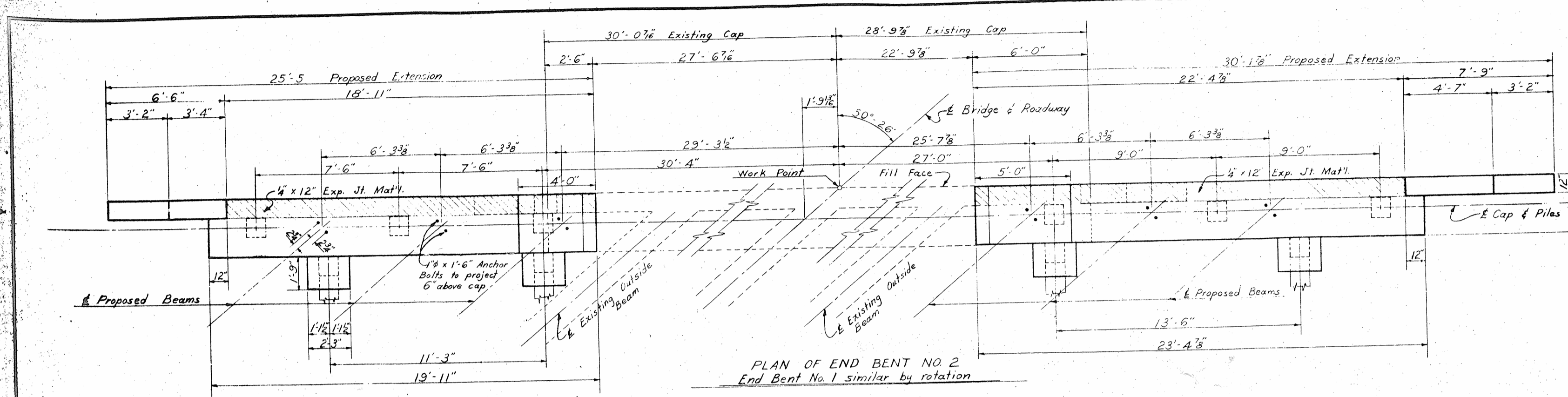
DESIGNED BY: *John H. M... DATE: June, 1962*
CHECKED BY: *...* DATE: *...*

Str. 1	25'-0"
Str. 2	23'-0"
Str. 3	21'-0"
Str. 4	19'-0"
Str. 5	17'-0"
Str. 6	15'-0"
Str. 7	13'-0"
Str. 8	11'-0"
Str. 9	9'-0"
Str. 10	7'-0"
Str. 11	5'-0"
Str. 12	3'-0"
Str. 13	1'-0"

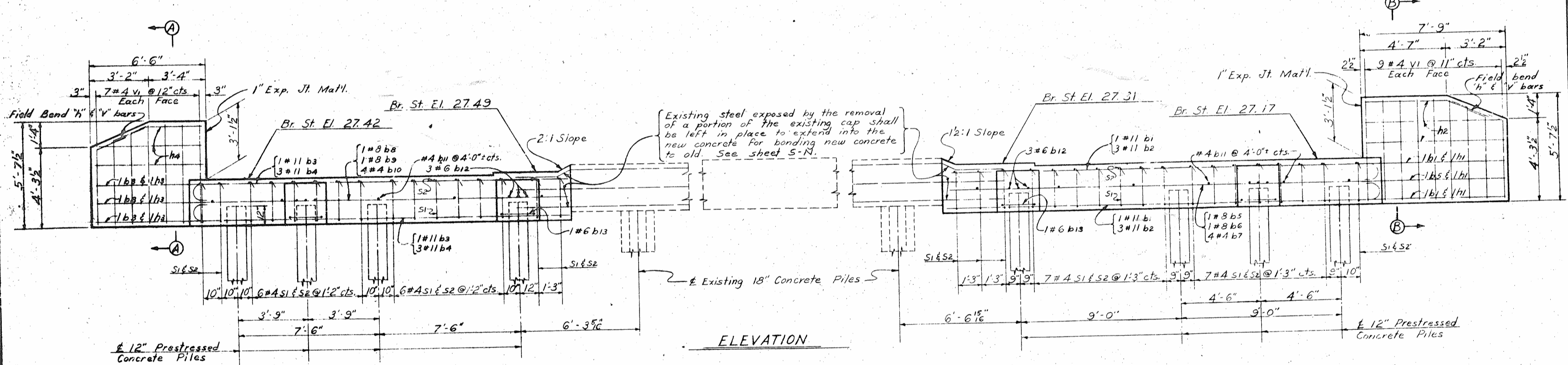
Reinforcing Steel, Lbs. = 3,070
 Class A Concrete, Cu. Yds. = 15.5
 12" Prestressed Concrete Piles
 Lim. Ft. = 390

PROJECT NO. 8.11028
 COUNTY BEAUFORT
 DATE 10.20.62
 STATE HIGHWAY COMMISSION
 STATION 109+20.05

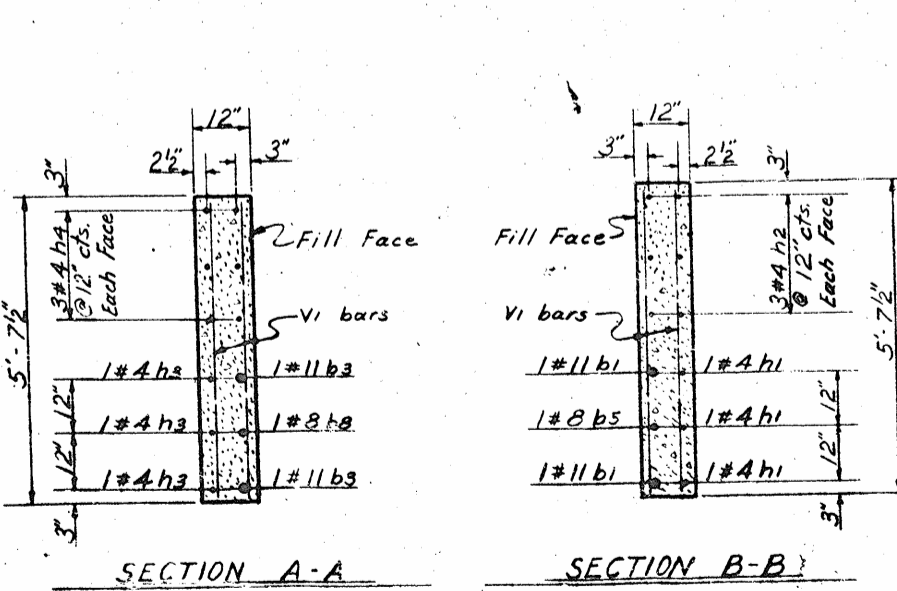
DATE June 1962
 DATE June 1962



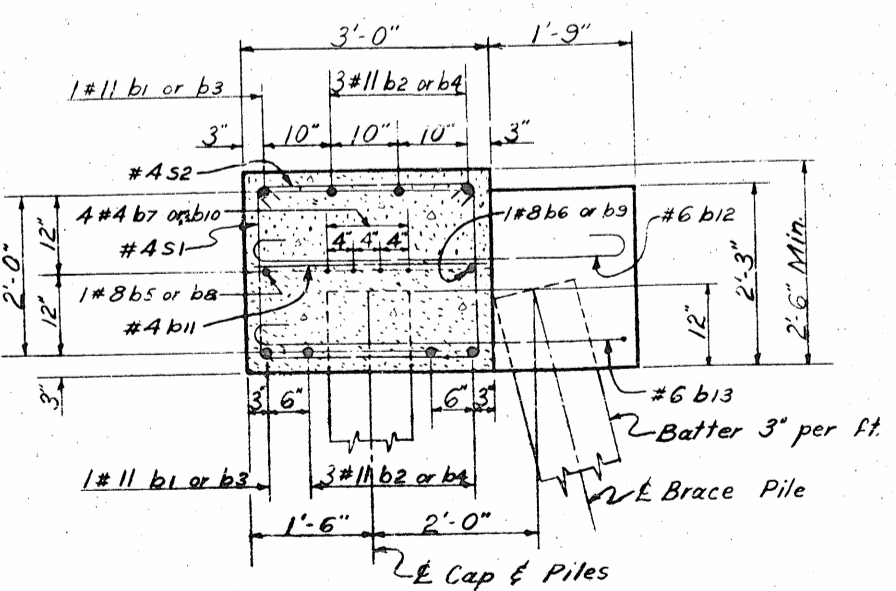
PLAN OF END BENT NO. 2
 End Bent No. 1 similar by rotation



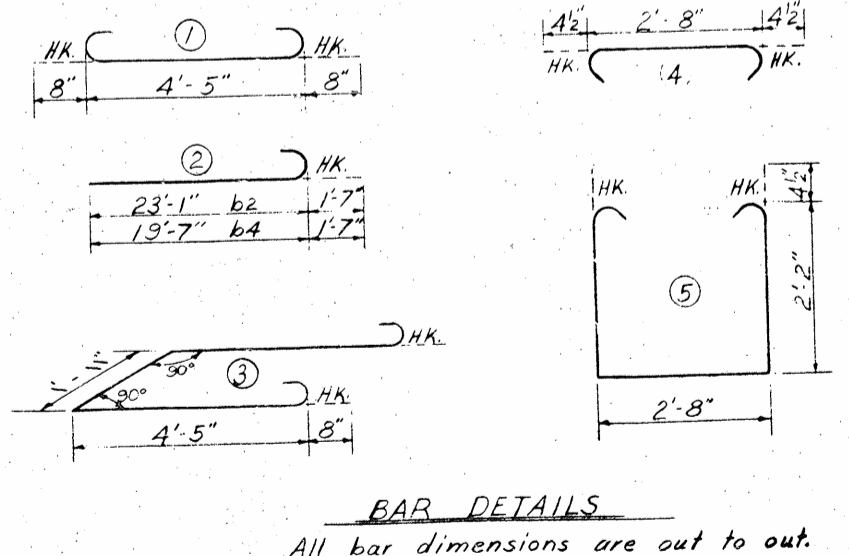
ELEVATION



SECTION A-A SECTION B-B



SECTION THRU CAP



BAR DETAILS
 All bar dimensions are out to out.

NO. ROAD DIST. NO.	STATE	PROJECT NO.
3	N.C.	8.11028
F. A. PROJECT F 75-4(2)		

BILL OF MATERIAL

FOR ONE BENT (2 REQ'D)						
BAR	NO.	SIZE	TYPE	LENGTH	WGHT	
b1	2	#11	Str.	29'-10"	317	
b2	6	#11	Str.	24'-8"	786	
b3	2	#11	Str.	25'-1"	267	
b4	6	#11	Str.	21'-2"	675	
b5	1	#8	Str.	29'-10"	80	
b6	1	#8	Str.	23'-1"	62	
b7	4	#4	Str.	23'-1"	62	
b8	1	#8	Str.	23'-1"	67	
b9	1	#8	Str.	19'-7"	52	
b10	4	#4	Str.	19'-7"	52	
b11	11	#4	Str.	2'-8"	20	
b12	12	#6	Str.	5'-9"	104	
b13	4	#6	Str.	12'-1"	73	
h1	3	#4	Str.	8'-1"	16	
h2	6	#4	Str.	7'-5"	30	
h3	3	#4	Str.	6'-10"	14	
h4	6	#4	Str.	6'-2"	25	
v1	34	#4	Str.	7'-9"	176	
v2	34	#4	Str.	3'-5"	78	
v3	32	#4	Str.	5'-4"	114	

Reinforcing Steel, Lbs. = 3,070
 Class A Concrete, Cu. Yds. = 15.5
 12" Prestressed Concrete Piles
 No. = 10 Lim. Ft. = 390

PROJECT NO. 8.11028
 BEAUFORT COUNTY
 STATION 109+20.05

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 END BENT NO. 1 & 2

JUNE, 1962

REVISIONS						
NO.	BY	DATE	NO.	BY	DATE	
1			2			
2			3			

PROJECT NO. 811028
 COUNTY BEAUFORT
 STATION 109+20.05

MATERIAL
 (2 R'Q'D)

LENGTH	WEIGHT
3'-10"	317
24'-8"	786
25'-1"	267
21'-2"	675
29'-10"	80
23'-1"	62
23'-1"	62
25'-1"	67
19'-7"	52
19'-7"	52
2'-8"	20
5'-9"	104
12'-1"	73
8'-1"	16
7'-5"	30
6'-10"	14
6'-2"	25
7'-0"	176
3'-5"	78
5'-4"	114

Vol. = 5,070
 Cu. Yds = 15.5
 Concrete Piles = 390

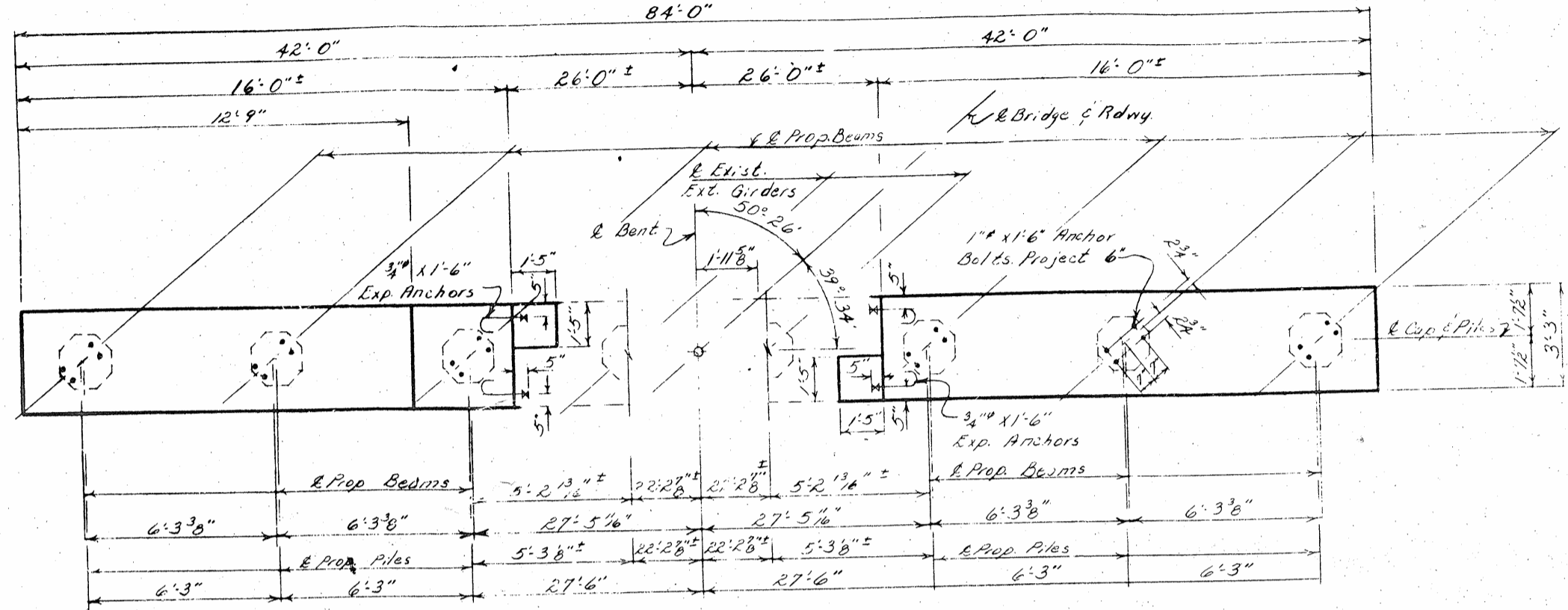
PROJECT NO. 811028
 COUNTY BEAUFORT
 STATION 109+20.05

PLINA MISS

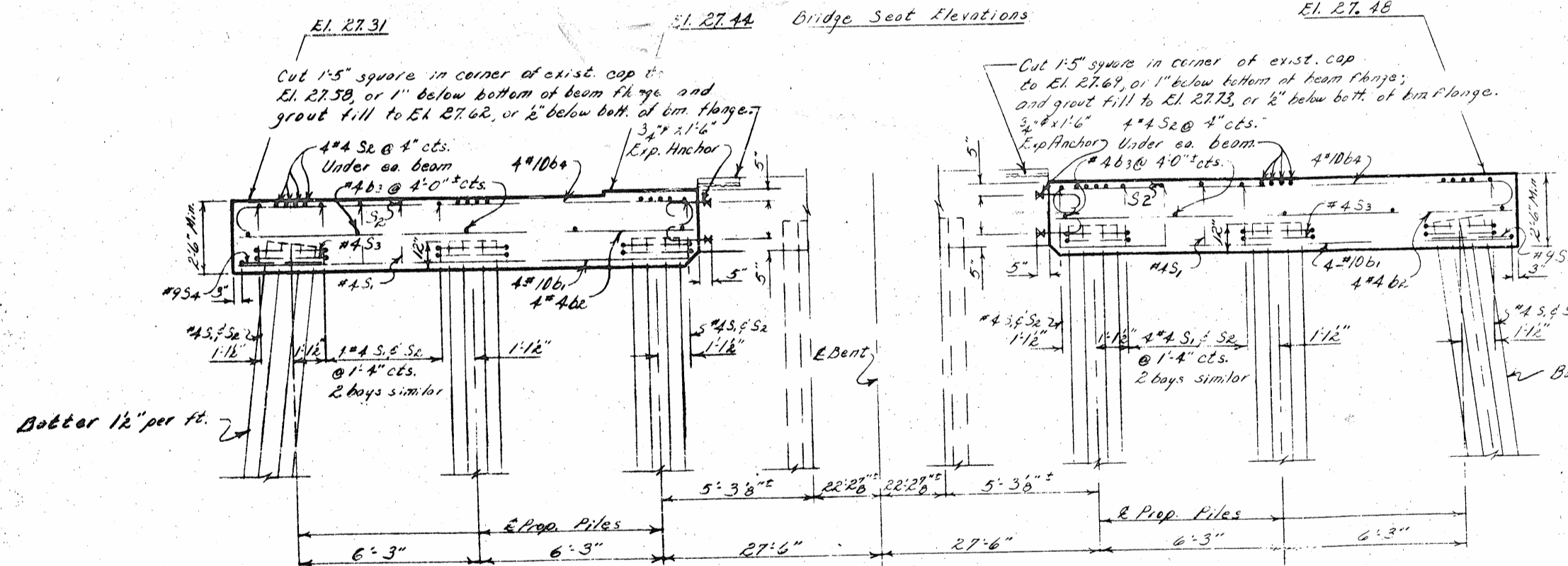
PRE

161

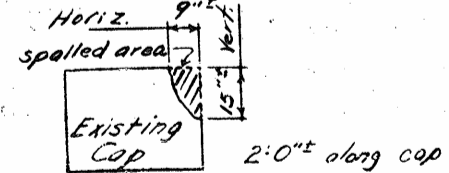
CAP



PLAN OF CAP
 for Bent No. 1
 Bent No. 4 Similar by Rotation

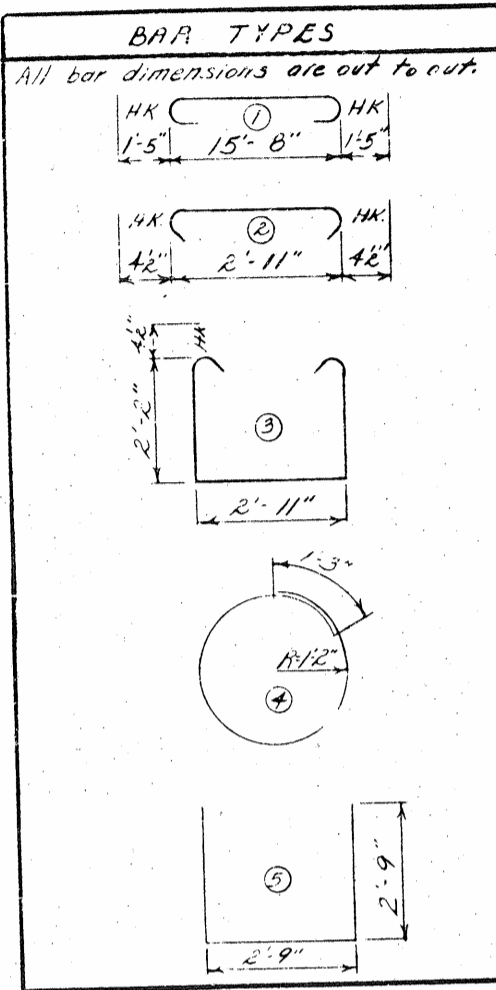


ELEVATION



SECTION OF CAP
 showing
 SPALL PATCH DETAIL

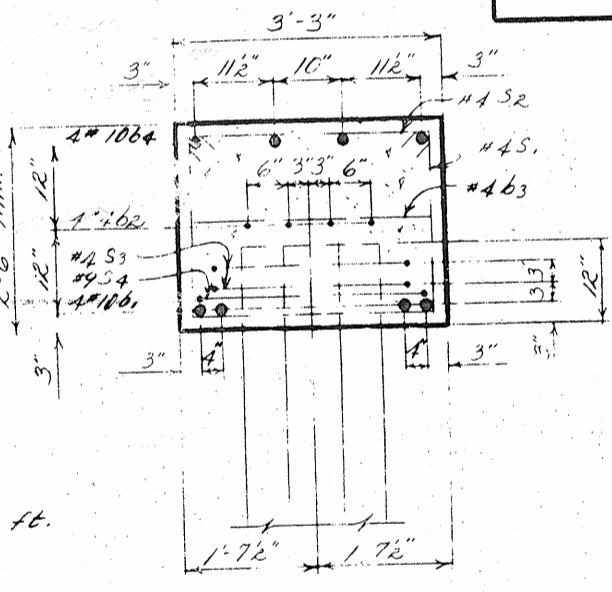
PATCHING EXISTING SPALLED AREAS
 The contractor will be required to patch spalled areas (approximately eleven) on the existing pier caps as directed by the Engineer. Spalled areas shall be prepared to eliminate feather edges by cutting out the existing concrete to a minimum depth of 1" over the entire area to be patched. An approved bonding agent shall be applied over the area to be patched, and a Class A Concrete mix shall be placed over the bonding agent. The patch shall be constructed to the same neat lines as the existing cap, and shall be given a finished texture similar to that of the existing cap. No separate measurement or payment will be made for this work, but the entire cost of same shall be included in the unit contract price bid per cu. yd. for Class A Concrete.



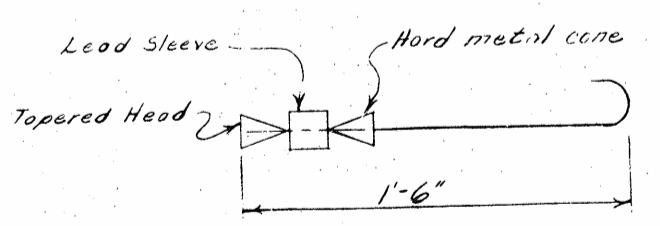
BAR TYPES

All bar dimensions are out to out.

BILL OF MATERIAL					
FOR ONE BENT (2 Rep'd)					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
61	8	#10 STR	15'-0"	539	
62	8	#4 STR	15'-8"	88	
63	10	#4 STR	2'-11"	19	
64	8	#10	18'-8"	637	
31	20	#4	3	8'-0"	109
32	14	#4	2	3'-8"	108
33	12	#4	4	8'-7"	69
34	2	#9	5	8'-3"	56



SECTION THRU CAP



3/4" EXPANSION ANCHOR DETAIL

Note: Anchors to be American Expansion Anchors or approved equal.

PROJECT NO. 811028
 BEAUFORT COUNTY
 STATION: 109+20.05

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENTS No. 1 and No. 4

June, 1962

REVISIONS				
NO.	BY	DATE	NO.	DATE
1			3	
2			4	

DESIGNED BY: [Signature] DATE: June 1962
 CHECKED BY: [Signature] DATE: July 1962

NO.	PROJECT NO.
1	8.11028
2	F 75-4(2)

MATERIAL

NO.	LEN.	WEIGHT
1	15'-8"	539
2	15'-8"	84
3	2'-11"	19
4	18'-6"	637
5	8'-0"	107
6	3'-8"	108
7	8'-7"	69
8	8'-3"	56

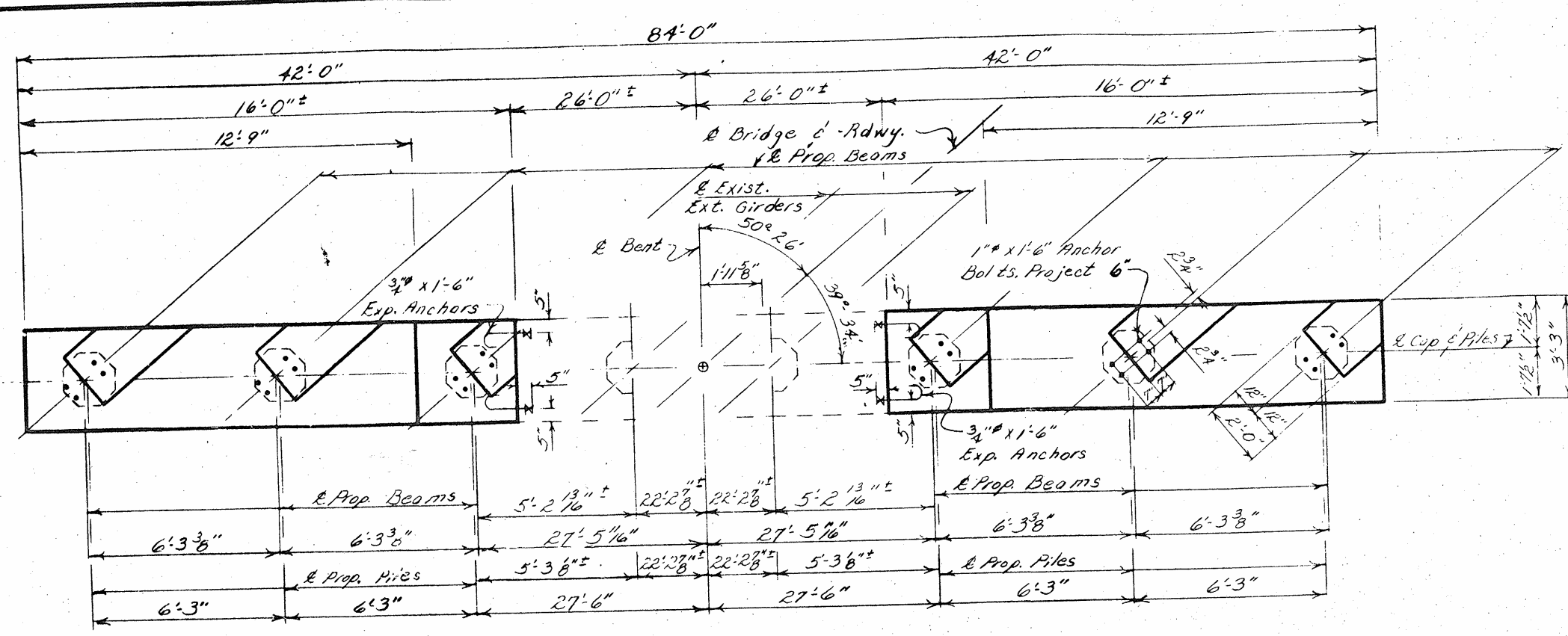
Co. Cont'd. 85
 Local Lbs. 1619
 Expansion
 3" Piles No. 6
 Lin. Ft. 270
 Anchors No. 8

8.11028
 COUNTY
 20.05

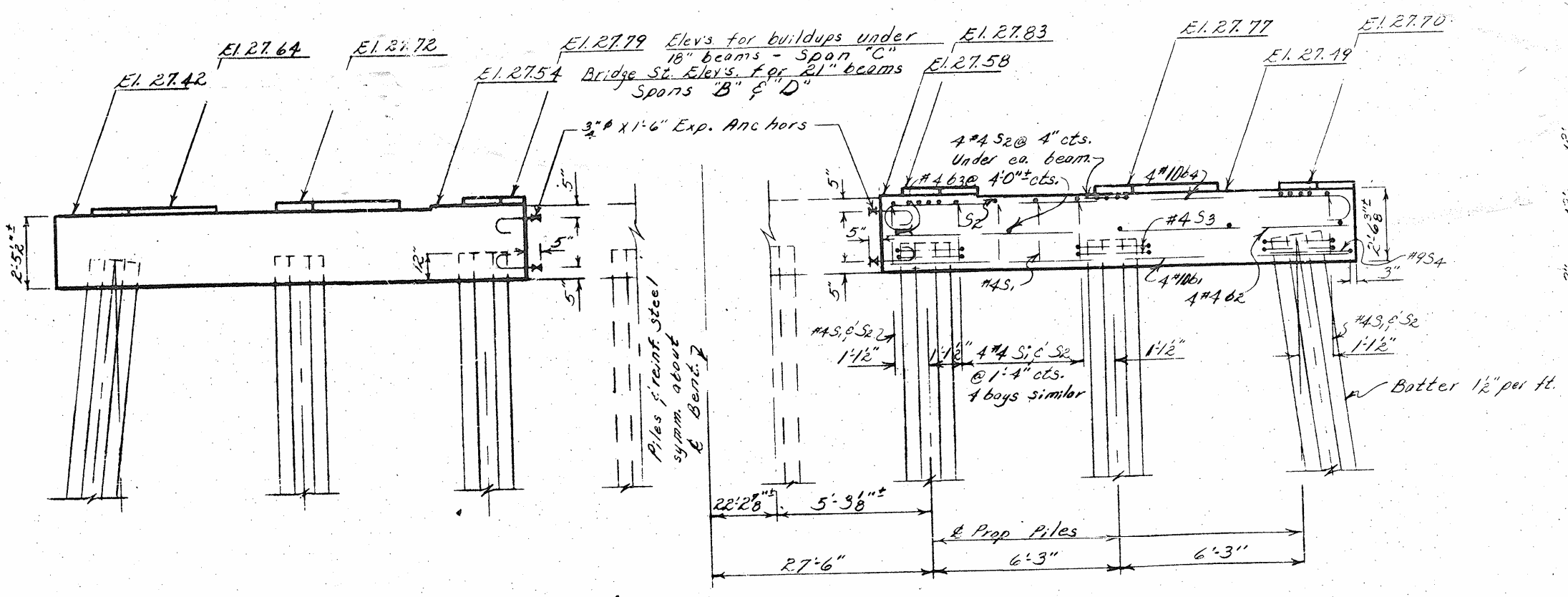
CAROLINA
 COMMISSION
 DATE
 No. 4

NO.	DATE	BY	DATE
1	5-7		
2			

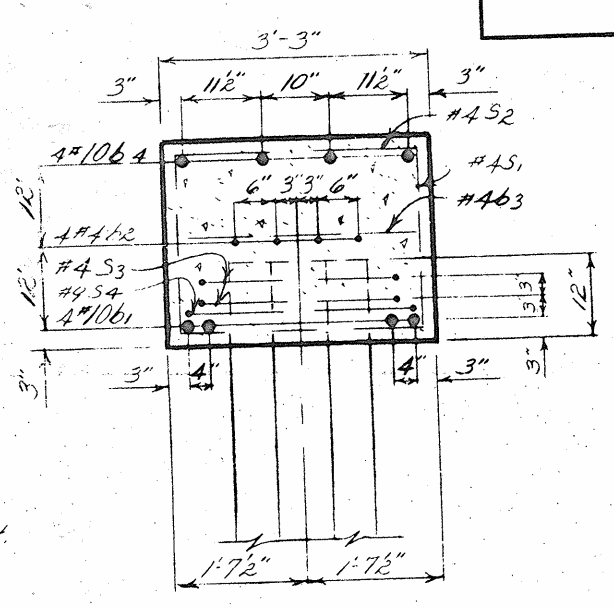
NO.	PROJECT NO.
1	8.11028
2	F 75-4(2)



PLAN OF CAP
 For Bent No. 2
 Bent No. 3 Similar by Rotation.

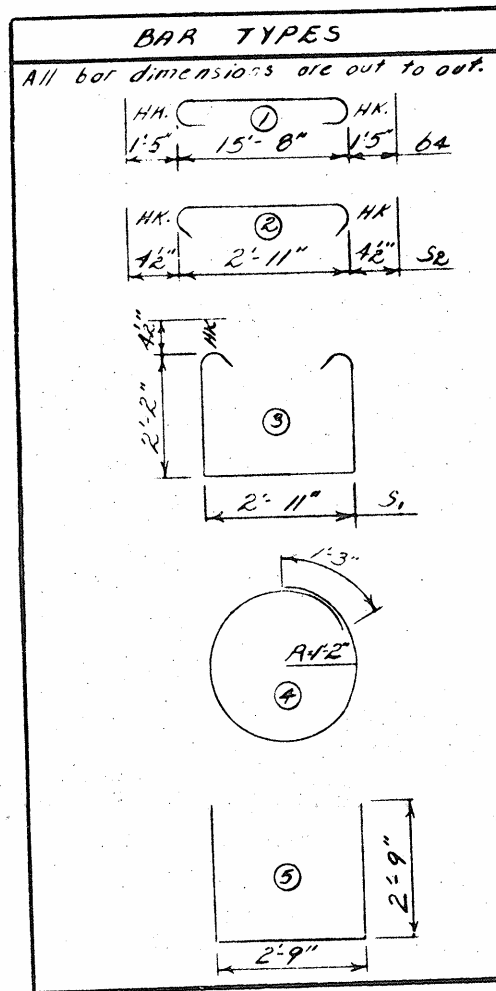


ELEVATION



SECTION THRU CAP

NOTE: See Bent No. 1 for detail of Expansion Anchor.



BAR TYPES		BILL OF MATERIAL		
All bar dimensions are out to out.		FOR ONE BENT (2 Repts)		
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#10 SET	15'-8"	539
B2	8	#4 SET	15'-8"	84
B3	10	#4 SET	2'-11"	19
B4	8	#10	18'-6"	637
B5	20	#4	3'-8"	107
B6	14	#4	3'-8"	108
B7	12	#4	8'-7"	69
B8	2	#9	8'-3"	56

Class 75 Concrete Culs. 9.9
 Reinforcing Steel Lbs. 1619
 20' Prest. Octagonal
 Concrete Piles No. 6
 Lin. Ft. 270
 3" Expansion Anchors No. 8

PROJECT NO. 8.11028
 BEAUFORT COUNTY
 STATION: 1091.20.05

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 BENTS No. 2 and No. 3

June, 1962

REVISIONS			
NO.	BY	DATE	REVISION
1			
2			

DESIGNED BY: J. D. Chapman DATE: June, 1962
 CHECKED BY: [Signature] DATE: July, 1962

29
 STATE PROJECT NO.
 N. C. 811028
 PROJECT F 75-4(2)

MATERIAL

TYPE	LENGTH	WEIGHT
1	15'-0"	539
2	15'-0"	84
3	2'-11"	19
4	18'-6"	637
5	8'-0"	107
6	3'-8"	108
7	8'-7"	60
8	8'-3"	56

Concrete Cu Yds. 8.9
 Steel Lbs. 1619
 Diagonal
 12# Piles No. 6
 Lin. Ft. 300
 in Brackets No. 8

NO. 811028
 COUNTY
 09120.05

NORTH CAROLINA
 HIGHWAY COMMISSION
 DRAWING
 No. 3

DATE
 5-8
 12

STATE PROJECT NO.
 N. C. 811028
 PROJECT F 75-4(2)

NOTES

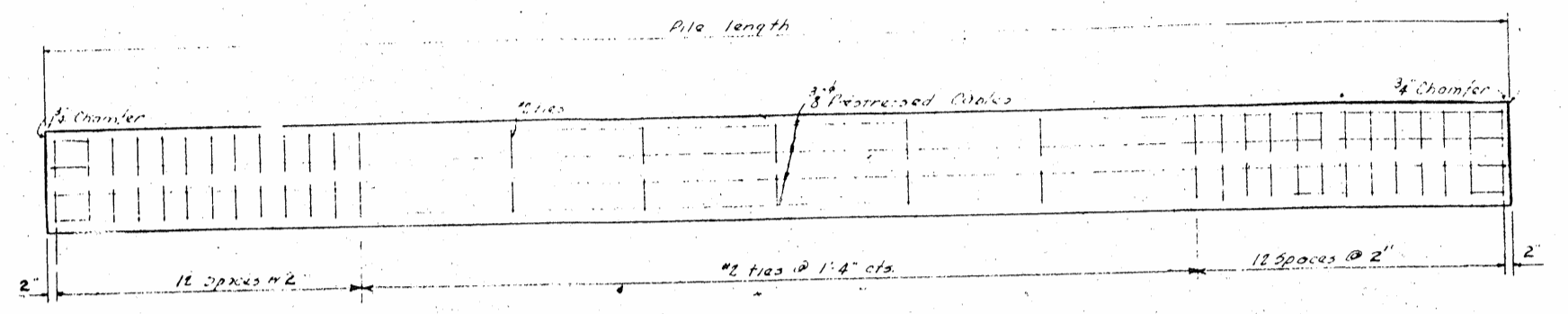
In driving piles, a method approved by the Engineer shall be used, whereby the head of the pile is not damaged.
 All material and workmanship as per the Specifications of North Carolina State Highway Commission and the Special Provisions.
 The contractor may use either #2 ties or #7 Gauge wire spiral as shown.
 Build up where necessary shall be done in accordance with the specifications, except that the reinforcing steel required in the build-ups shall be included in the contract unit price per foot for the pile and will not be paid for as reinforcing steel.

DESIGN DATA:
 Concrete f_c - 3000 p.s.i.
 Steel f_s - 20,000 p.s.i.
 Tension - None
 Cables Tensile (Ultimate) - 250,000 p.s.i.
 (Applied) - 175,000 p.s.i.
 (Design) - 140,000 p.s.i.
 Impact in handling - 100%

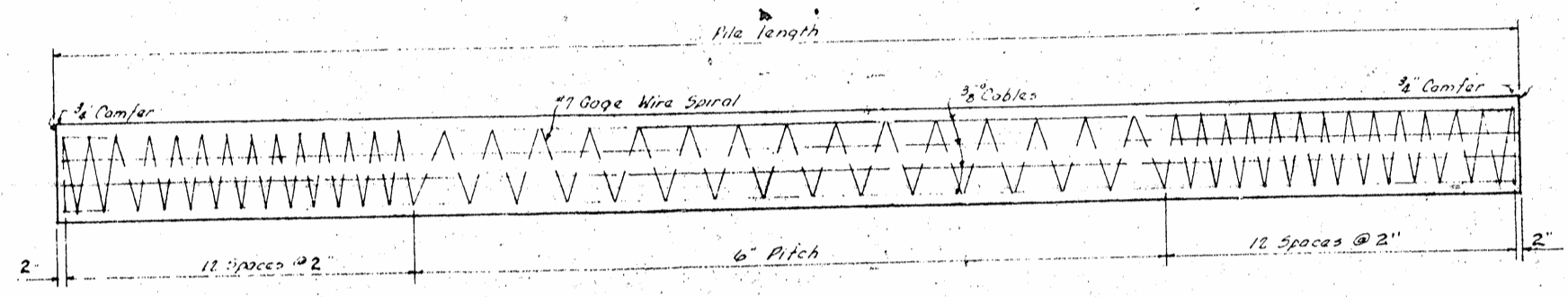
No.	Size	Length	Lin. Ft.
20	12	39'-0"	780'-0"

PROJECT NO. 811028
 BEAUFORT COUNTY
 STATION: 109+20.05

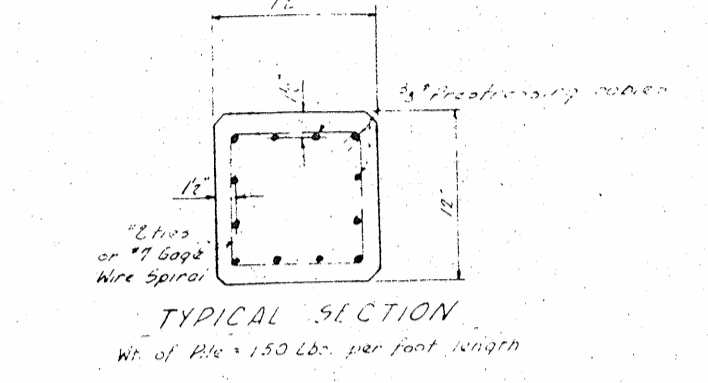
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 STANDARD
 12" PRESTRESSED CONG.
 PILES
 MARCH, 1957



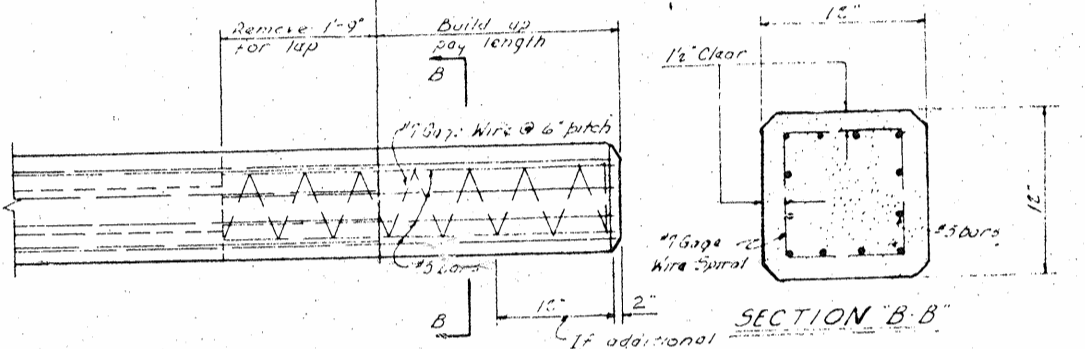
PILE



ALTERNATE PILE



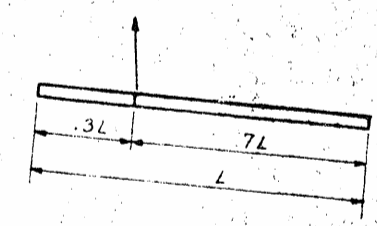
TYPICAL SECTION



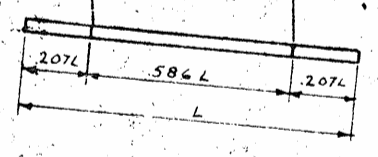
PILE BUILD-UP

SECTION B-B

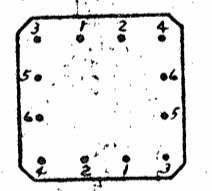
Devices for lifting the piles from the casting beds shall be approved by the Engineer. Where piles will be exposed to view in the structure inserts set in the piles to receive threaded eye bolts or similar approved devices shall be used. Loops of cable cast in the pile will not be permitted except for piles for end bents and foundations which will not be exposed to view. The use of satisfactory clamps or slings will be permitted where this is practicable without the use of lifting devices cast in the piles. After eye bolts or other attachments have been removed, the openings shall be repaired in satisfactory manner before delivery to the bridge site in order to obtain a uniform appearance. It will not be necessary to remove loops of cable or other lifting devices in piles for end bents and foundations which will not be exposed to view.



Method of picking up piles up to 50 feet
 1 pick up point



Method of picking up Piles 51 feet to 70 feet
 2 pick up points



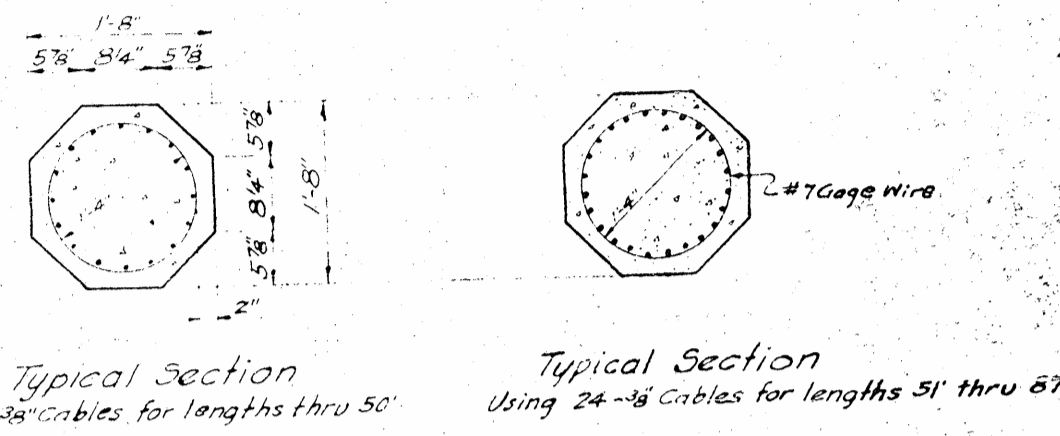
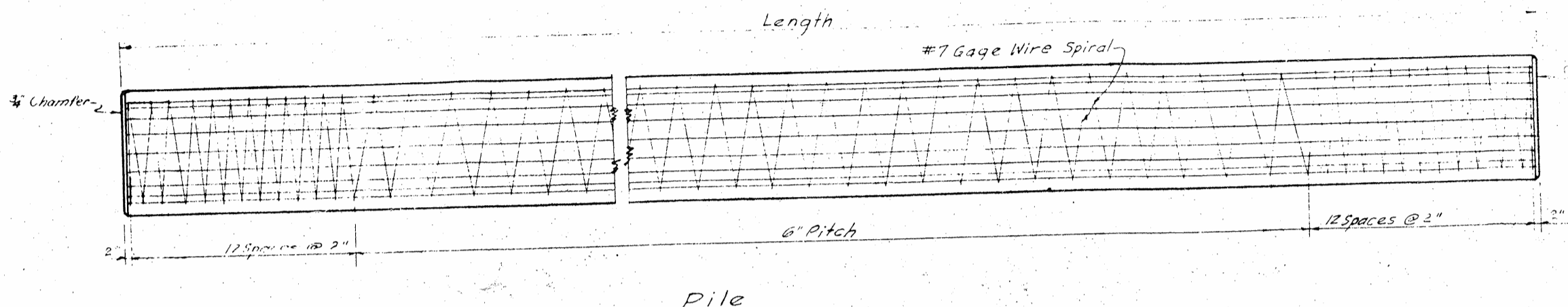
TYPICAL PATTERN FOR BURNING CABLES

If cable stress is to be relieved by burning, the cables shall be burned in opposite pairs as indicated in the pattern shown above. Cables 1-1 to be burned before 2-2 etc.
 Not more than 4 cables, say 5-5 and 6-6, may be burned at any one section before these same pairs of cables are burned at both ends of the bed and between each pair of piles in the bed.

SPECIAL ASSEMBLED BY: *B. Bennett* DATE: 2-26-62
 CHECKED BY: *B. M. WOOD* DATE: 3-1-62
 STANDARD DRAWN BY: *Frank J. Johnson* DATE: 3-1-62
 TRACED BY: *K. L. Johnson* DATE: 3-1-62
 CHECKED BY: *K. L. Johnson* DATE: 3-1-62

Revised to show pattern for burning cables Jan. 5, 1962
 Revised for spacing of wire spiral at ends of pile, Nov. 9, 1959 R.A.S. by K.H.M.

Revised for note concerning Pick Up 6-19-57 JAO



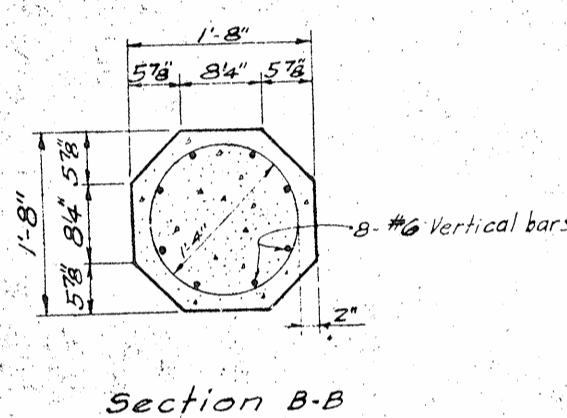
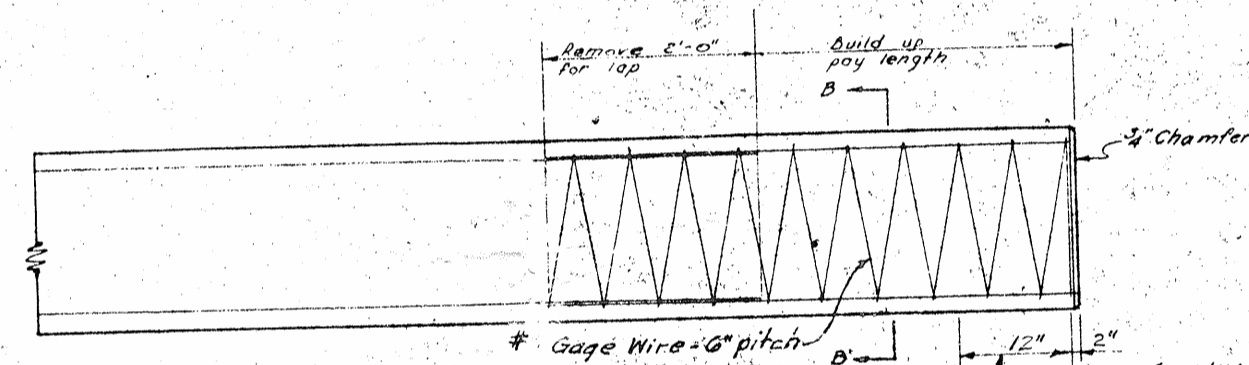
PILES REQUIRED			
Nr	Size	Length	Lin. ft
12	1-8"	45'	540'
12	1-8"	50'	600'
Total			1140'

Design Data:
 Concrete: $f_c = 5000$ Lbs per Sq. Inch.
 $f_s = 20000$ Lbs per Sq. Inch.
 Tension = None.
 Cables: Tensile (Ultimate) = 2,50,000 Lbs per Sq. Inch.
 (Applied) = 175,000 Lbs per Sq. Inch.
 (Design) = 140,000 Lbs per Sq. Inch.
 Impact in handling = 100%.

General Note:
 In driving piles, a method approved by the engineer shall be used, whereby the head of the pile is not damaged.

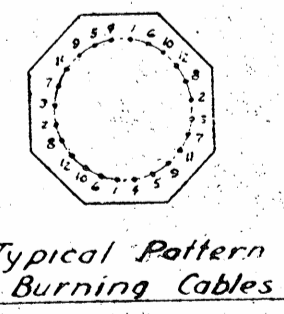
Build-up, where necessary, shall be done in accordance with the specifications, except that the reinforcing steel required in the build-up shall be included in the contract unit price per foot for the pile and will not be paid for as reinforcing steel.

All material and workmanship as per the specifications of the North Carolina State Highway Commission and the Special Provisions.



Length	Concrete		Pile Wt		One Pickup Point		Two Pickup Points	
	Cu. Yds.	Tons	.30L	.70L	.207L	.586L		
25'-0"	2.13	4.31	7'-6"	17'-6"				
30'-0"	2.55	5.16	9'-0"	21'-0"				
35'-0"	2.98	6.03	10'-6"	24'-6"				
40'-0"	3.40	6.89	12'-0"	28'-0"				
45'-0"	3.83	7.75	13'-6"	31'-6"				
50'-0"	4.26	8.62	15'-0"	35'-0"				
55'-0"	4.68	9.48	16'-6"	38'-6"				
60'-0"	5.11	10.34			12'-5"	35'-2"		
65'-0"	5.53	11.20			13'-5 1/2"	38'-1"		
70'-0"	5.96	12.06			14'-6"	41'-0"		

If cable stress is relieved by burning, the cables shall be burned in opposite pairs as indicated in the typical pattern shown, for any number of cables burn in opposite pairs and symmetrical about both vertical and horizontal axes. Cables 1/1 shall be burned before 2-2, etc. Not more than 4 cables, say 5-5 and 6-6, may be burned of any one section before these same pairs of cables are burned at both ends of the bed and between each pair of piles in the bed.



Revised to clarify buildup detail 3/8/60 M.S.D.V.B.P.T.
 Revised to add notes and sketch regarding burning of cables Jan. 6, 1960 J.R.W. & P.M.W.
 Revised for note regarding slip form method of casting piles. 12-18-59 J.L.B. & R.W.W.
 Revised for spacing of wire spiral at ends of pile. Nov. 9, 1959 RAS & B.V.
 Revised to add table of additional Data. 5-27-59 RAS & B.V.
 Revised for note concerning [unclear] 5/30/57 by F.J.L. [unclear]

PROJECT NO. 8.11028
 BEAUFORT COUNTY
 STATION 109+20.05

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

STANDARD
 1-8" PRE-STRESSED
 OCTAGONAL CONCRETE PILES

August, 1956

SPECIAL	APPROVED BY: <i>M. Bennett</i>	DATE: 6-26-62
	DESIGNED BY: <i>J. R. Ward</i>	DATE: 6-26-62
	DRAWN BY: <i>J. R. Ward</i>	DATE: Aug. 1956
	CHECKED BY: <i>G. L. Barrett</i>	DATE: Aug. 1956

Specified by the Engineer to the head of the pile...
 as per the Special Provisions...
 cables or 1/4 Gage...
 done in accord...
 that the build up shall be done in accordance with the specifications and will not be paid for as reinforcing steel.

NO. 8.11028
 BEAUFORT COUNTY
 STATION 109+20.05

NO. 8.11028
 BEAUFORT COUNTY
 STATION 109+20.05

NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 STANDARD
 1-8" PRE-STRESSED
 OCTAGONAL CONCRETE PILES

811028

thru 87

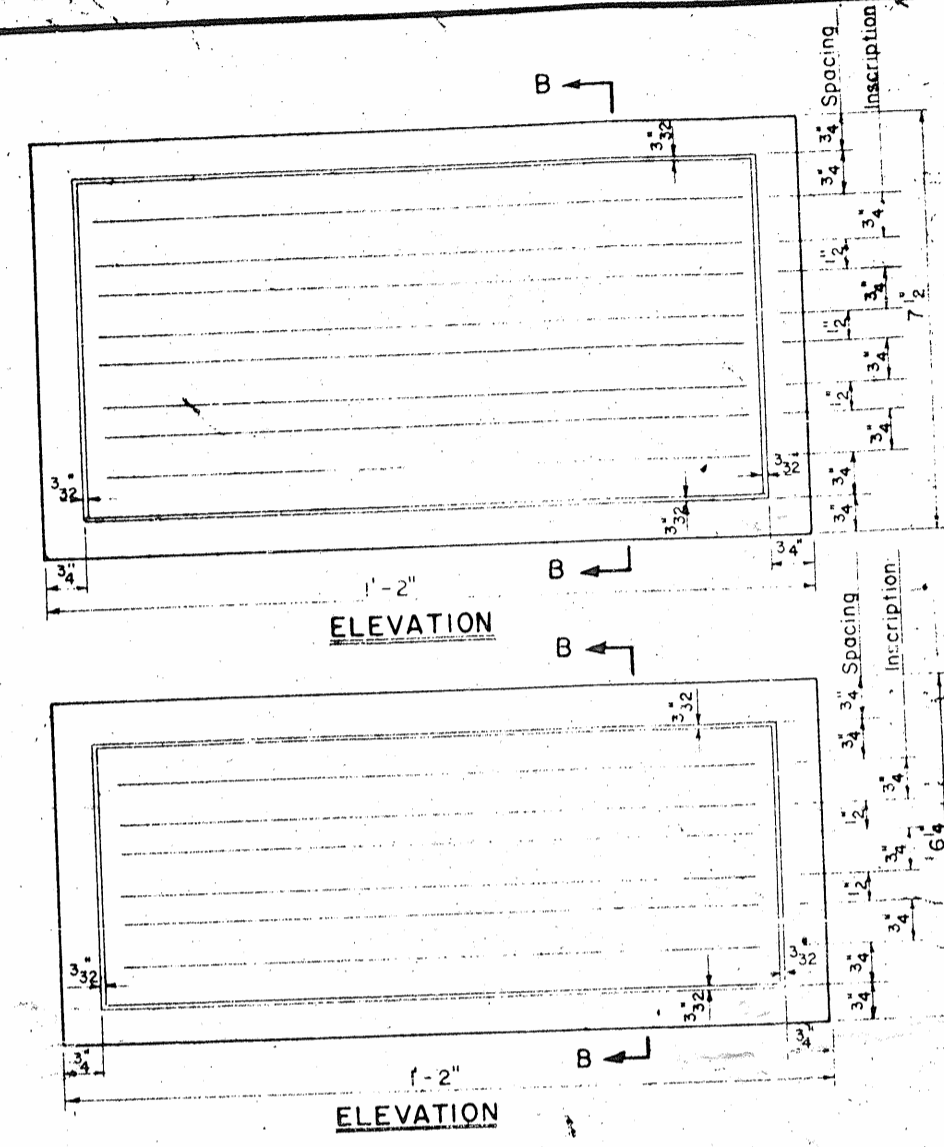
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8.11028
COUNTY
120.05

PERMISSION

PILES
SHEET
S-10



BEAUFORT COUNTY
PROJECT 8.11028
FEDERAL AID
1963

DETAIL SHOWING CORRECT WORDING
NAME PLATE USING FOUR LINES

*The date to be shown on the name plates is the year in which the structure will be finished. This date shall be verified by the Resident Engineer before the name plate inscription is ordered.

BEAUFORT COUNTY
PROJECT 8.11028
FEDERAL AID
1963

DETAIL SHOWING CORRECT WORDING
NAME PLATE USING THREE LINES

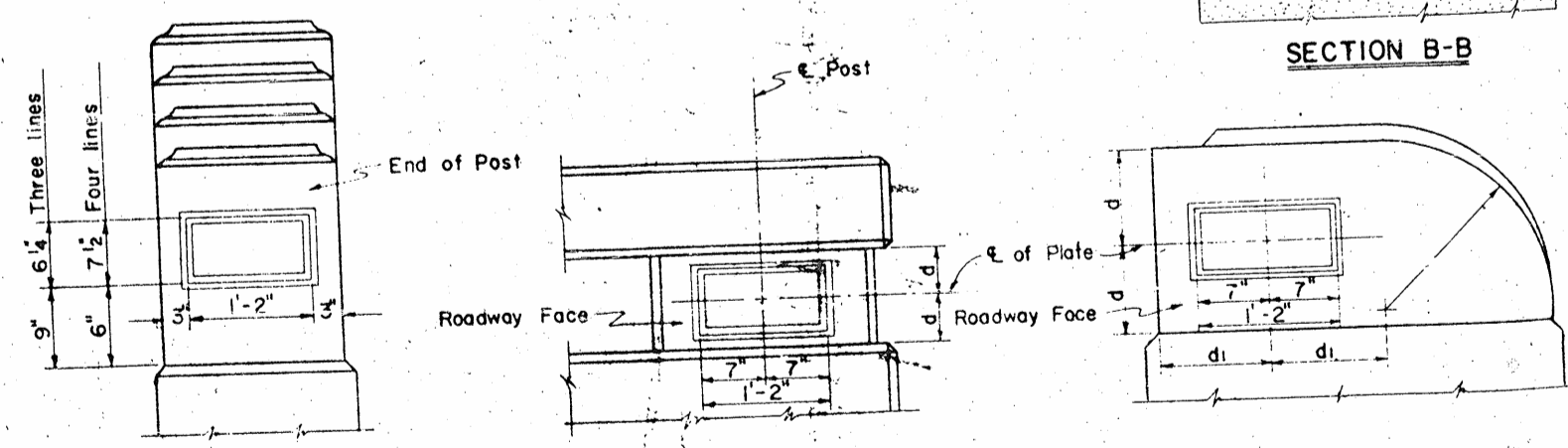
GENERAL NOTES

For bridges on which there will be two-way traffic, 2 name plates are required for each bridge. For bridges on which there will be one-way traffic, one name plate is required for each bridge. Name plates to be placed on the right hand end post approaching the bridge, and shall be placed parallel to grade of curb. See LOCATION DETAIL.

The name plates are to be made of granite. Granite shall be light gray, fine or medium grained, sound in quality and free from defects that would mar its appearance. Exposed face of plates to have a fine rubbed finish.

Lettering shall be sandblast sunk, 3/4" high, vertical, Modern Roman style. The wording shall be as shown in the "DETAIL SHOWING CORRECT WORDING."

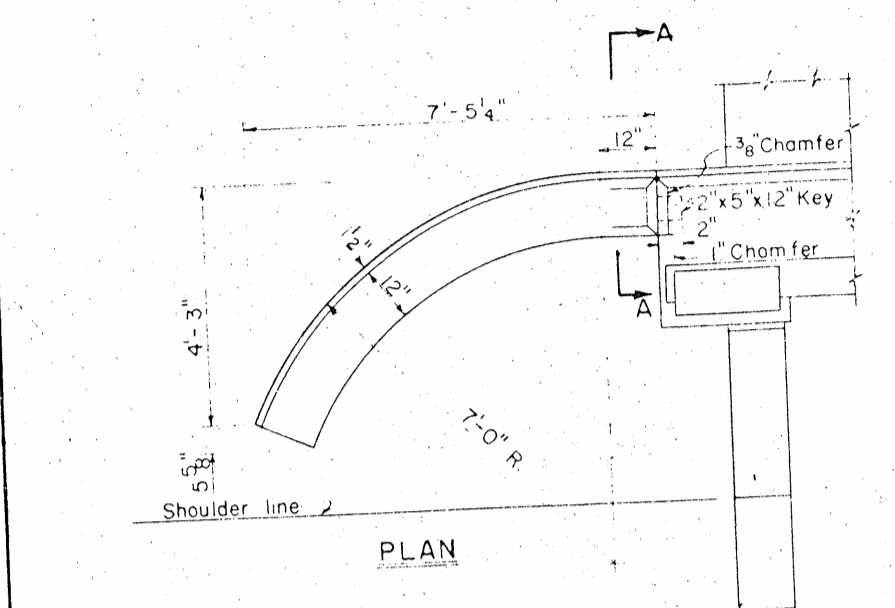
The entire cost of the name plates, complete in place, shall be included in the contract price bid for Class "A" Concrete.



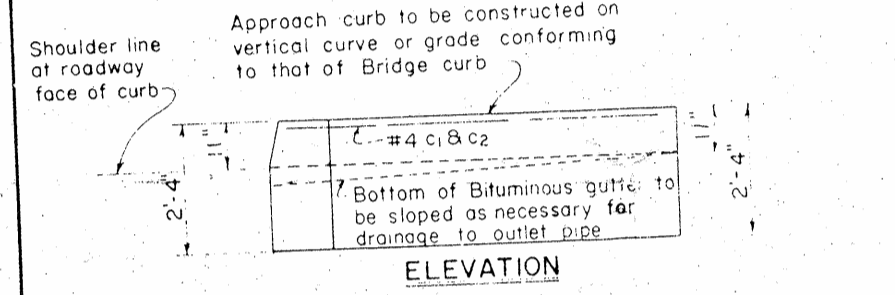
LOCATION DETAIL FOR NAME PLATES

NAME PLATES

SPECIAL APPROVED BY *Charles R. King, Jr.* DATE Sept. 1962
CHECKED BY _____ DATE _____
DESIGNED BY *H. F. Rogers* DATE Sept. 1, 1960
TRACED BY _____ DATE _____
CHECKED BY *Chas. J. Meeker* DATE Sept. 2, 1960



PLAN

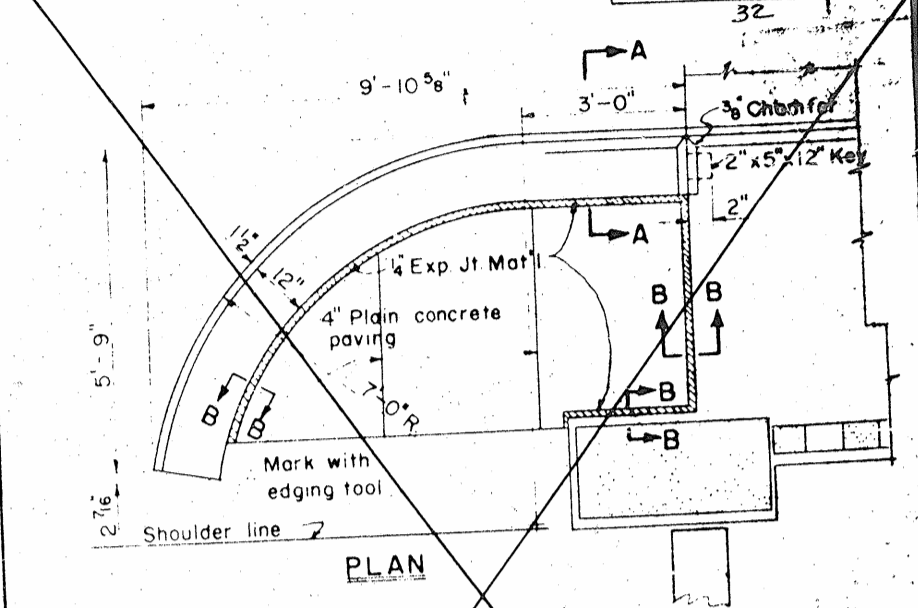


ELEVATION

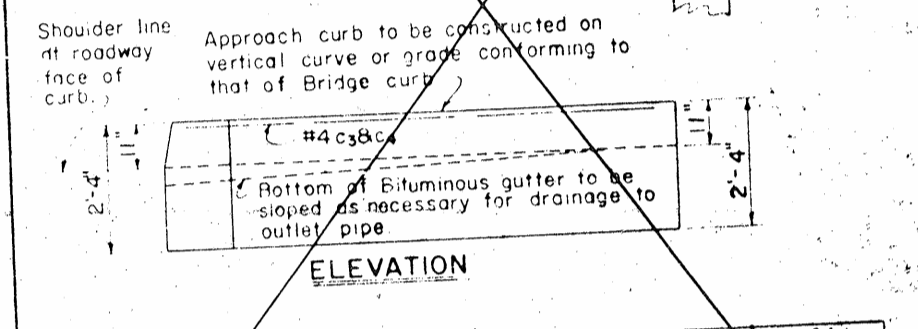
BILL OF MATERIAL FOR 4 CURBS

Bar No.	Size	Length	Weight
C-1	#4	7'-9"	21
C-2	#4	8'-6"	23
C-3	#4	3'-0"	32
Reinforcing Steel			76 Lbs
Class "A" Concrete			3.2 CY

TO BE USED WITH 12" & 16" CURBS



PLAN

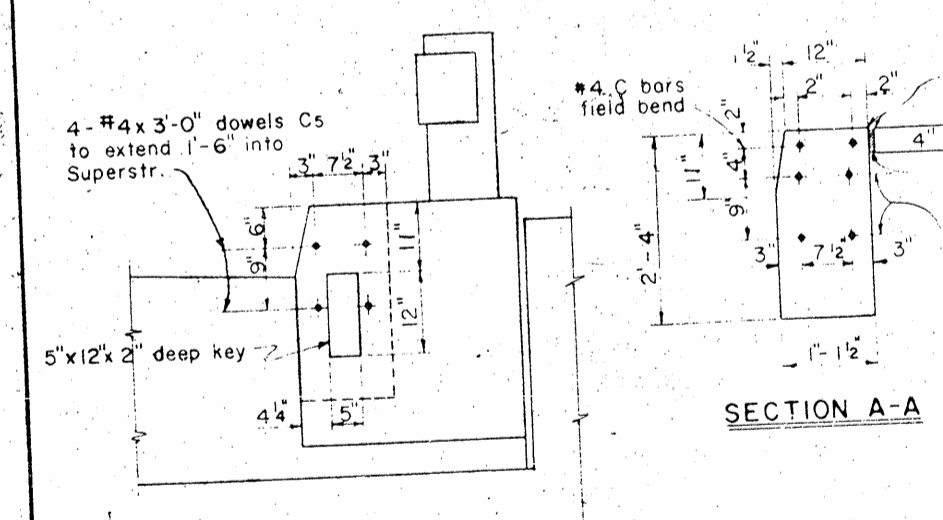


ELEVATION

BILL OF MATERIAL FOR 4 CURBS & PAVING

Bar No.	Size	Length	Weight
C-1	#4	11'-0"	29
C-2	#4	12'-0"	32
C-3	#4	3'-0"	32
Reinforcing Steel			93 Lbs
For 3' Walks - Class "A" Concrete			5.1 CY
For 5' Walks - Class "A" Concrete			5.8 CY

TO BE USED WITH 3' & 5' WALKS



END ELEVATION SHOWING KEY IN SUPERSTRUCTURE

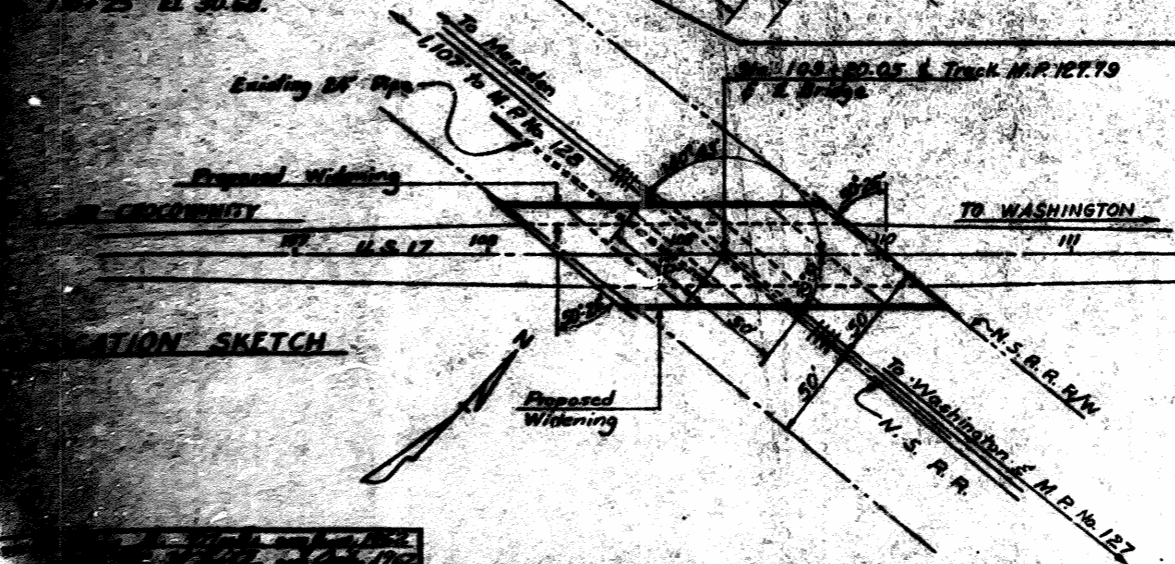
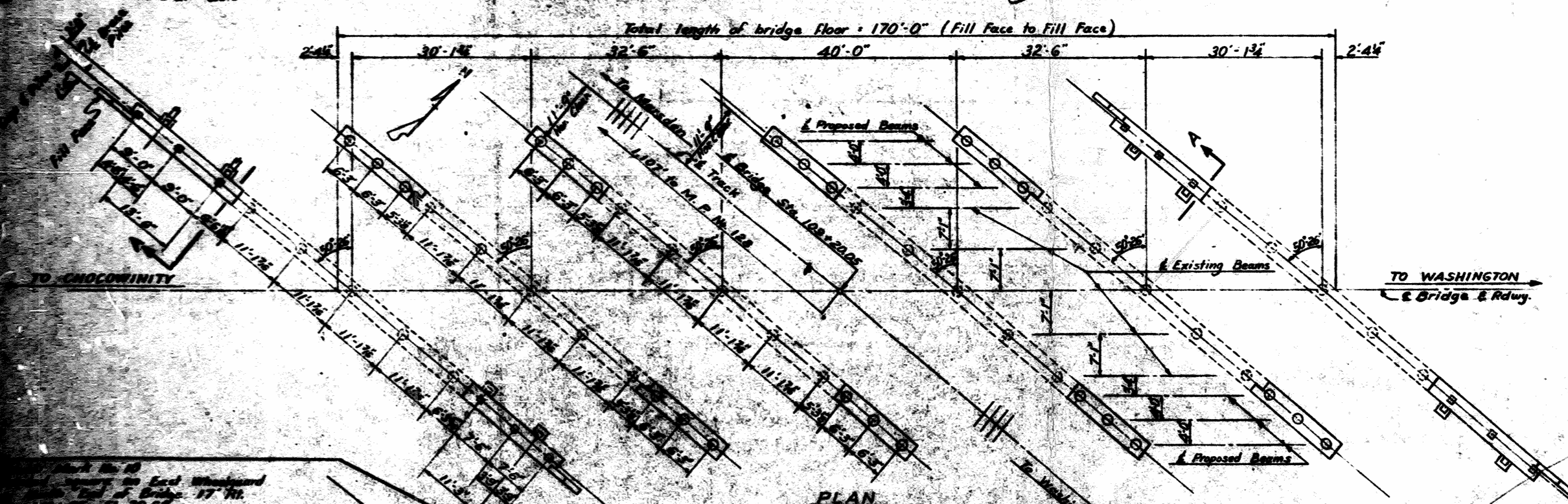
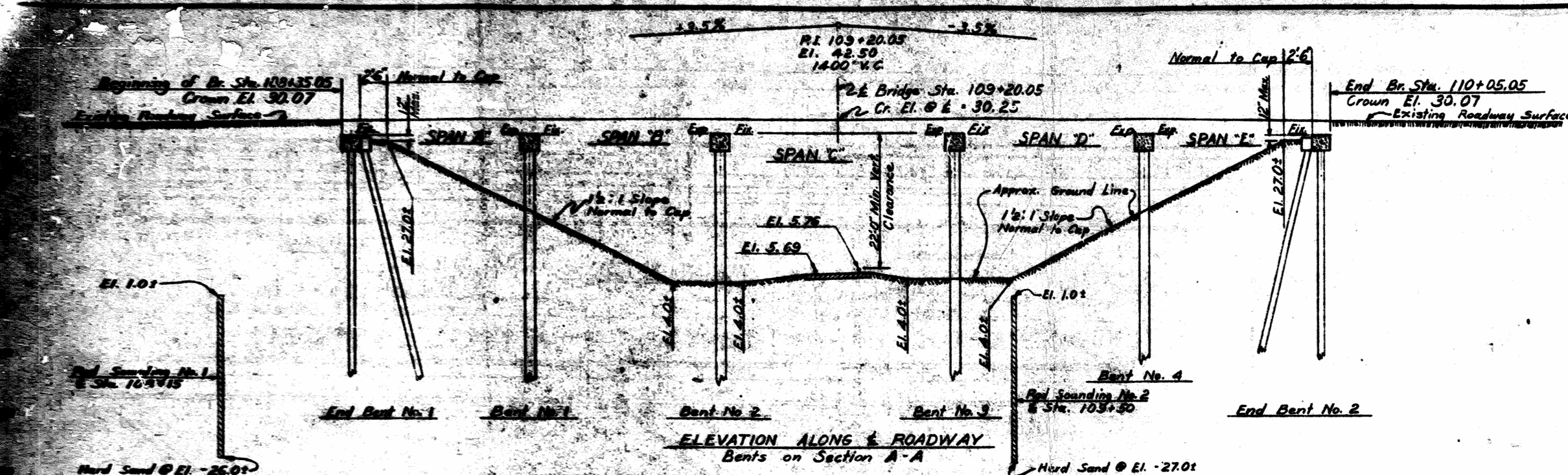
APPROACH CURBS

NOTE: The excavation for curbs will not be measured and paid for as a separate item. The entire cost for same is to be included in the unit price bid for Class "A" Concrete.

Drains and Bituminous surfacing at ends of Bridge to be furnished and placed by the Roadway Contractor.

PROJECT NO. 8.11028
BEAUFORT COUNTY
STATION: 10.9+20.05

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
STANDARD
APPROACH CURBS
AND
NAME PLATES
SEPT. 1960



NOTES:

Assumed Live Load = H20-S16-44

For other design data and general note see sheet S-N.

No test piles are required. Order length shall be 39 ft. For End Bent No. 1, 45 ft. For Bent No. 1, 50 ft. For Bent No. 2 and No. 3, 45 ft. For Bent No. 4, and 39 ft. For End Bent No. 2.

Piles for End Bent No. 1 and End Bent No. 2 to be driven to a minimum bearing capacity of 25 tons each. Piles for Bent No. 1, No. 2, No. 3 and No. 4 to be driven to a minimum bearing capacity of 27 tons each.

The contractor will be required to excavate completely through the fill at End Bent No. 1, Bent No. 1, Bent No. 4, and End Bent No. 2 before driving piles. See sheet S-N.

Traffic to be maintained, see Special Provisions.

Rod Soundings taken from original survey made in 1930.

I-Beam lengths are subject to change to fit actual span lengths. Span lengths to be checked by the Resident Engineer as early as is practical in order to determine whether I-beam lengths as shown on plans are correct.

Removal of Existing Structure At Station 50+04:
 Remove existing C.C. bridge over abandoned R.R. and consisting of 7 spans (5 @ 52'-2" & 2 @ 29'-3") 32' roadway on precast concrete pile bents. Remove Superstructure completely, substructure down to 2' below subgrade or natural ground in accordance with the Specifications and the Special Provisions.

Proposed 1 1/2" wearing surface to be placed by Roadway Contractor.

TOTAL BILL OF MATERIAL

	Class 2A Concrete Cu. Yds.	Reinf. Steel Lbs.	Structural Steel Approx. Lbs.	12" Sp. Presc. Conc. Piles No.	20" Dia. Presc. Conc. Piles No.	Removal of Existing Structure L.S.
Superstructure	142.0	26,758	83,700			
End Bent No. 1	15.5	3,070		10	390	
Bent No. 1	9.2	1,619			6	270
Bent No. 2	9.9	1,619			6	300
Bent No. 3	9.9	1,619			6	300
Bent No. 4	9.2	1,619			6	270
End Bent No. 2	15.5	3,070		10	390	
Approach Cords	3.2	76				
Totals	216.4	39,470	83,700	20	780	1,140

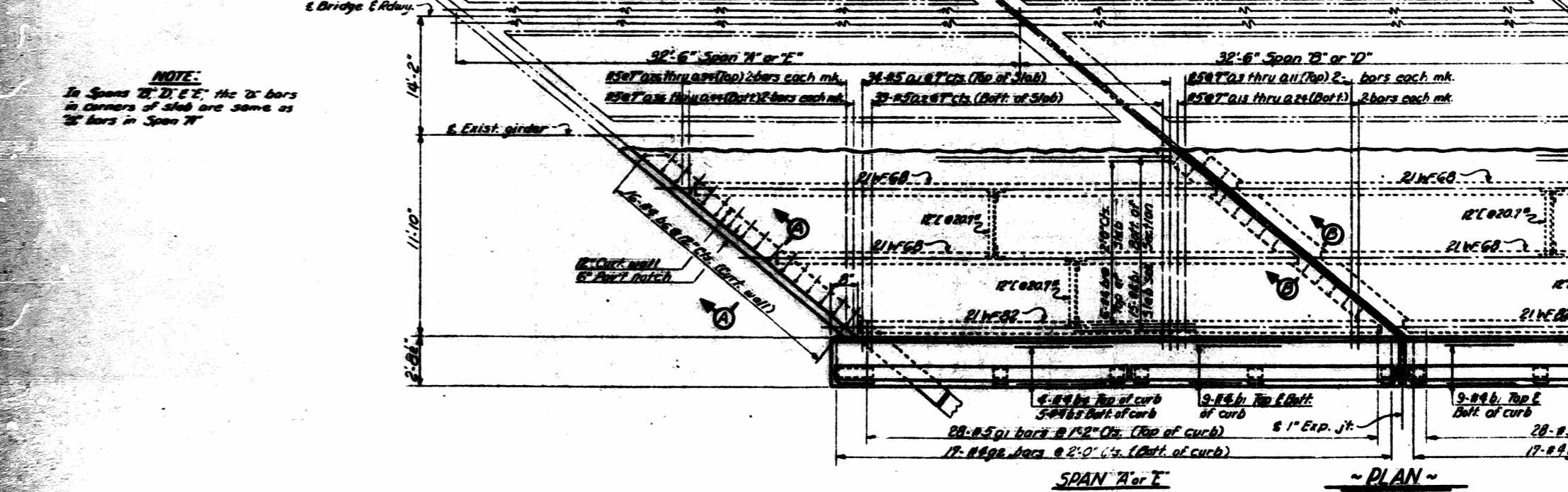
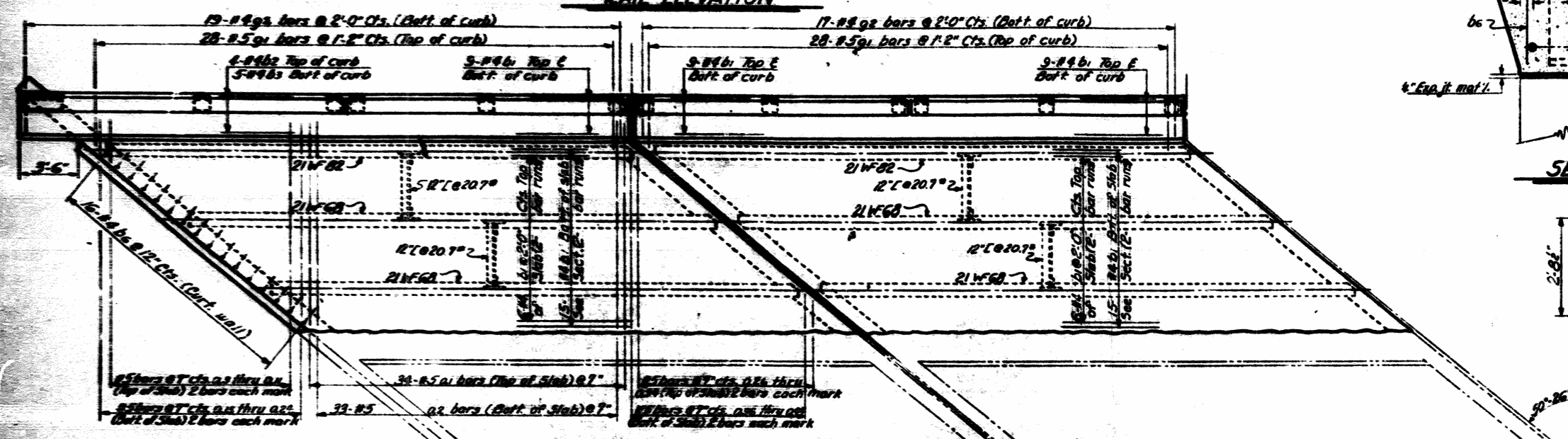
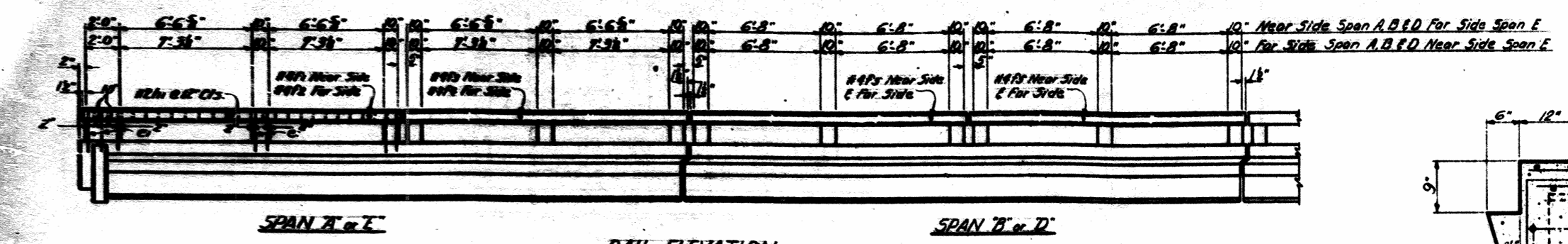
Bridge No. 17-15-10

PROJECT No. 3, 11824
 BLAUFORT COUNTY
 STATION: 103+20.05

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

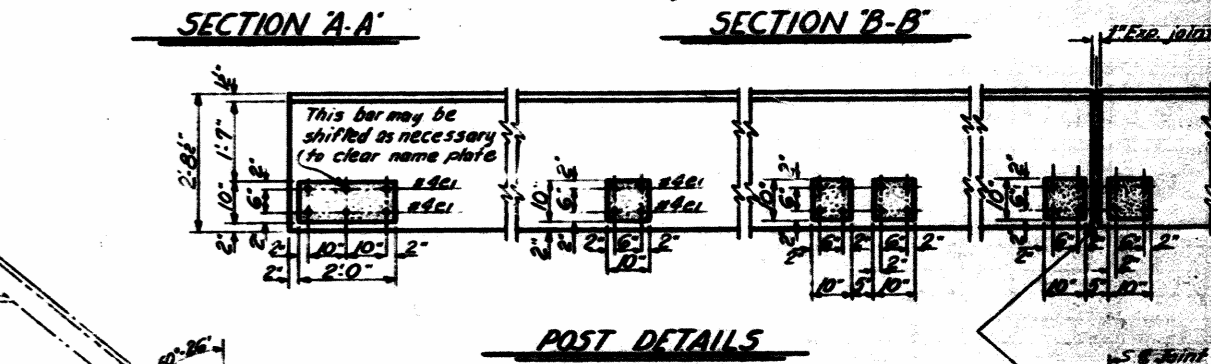
GENERAL DRAWING
 FOR BRIDGE OVER
 NORFOLK SOUTHERN R.R.
 ON U.S. 17 BETWEEN
 CHOCOWINITY AND WASHINGTON

DATE: MAR 1934
 DRAWN BY: M.C. 3110



NOTE:
 In Spans B or E, the 2" bars in corners of slab are same as 2" bars in Span B

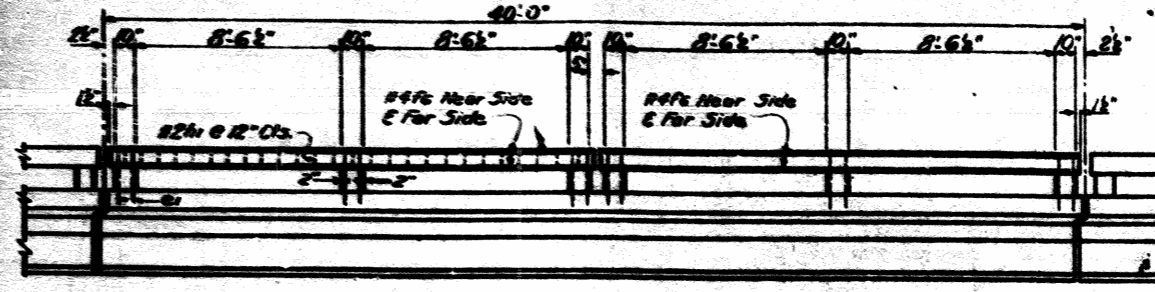
WID. CONC. FL. NOT CONST.



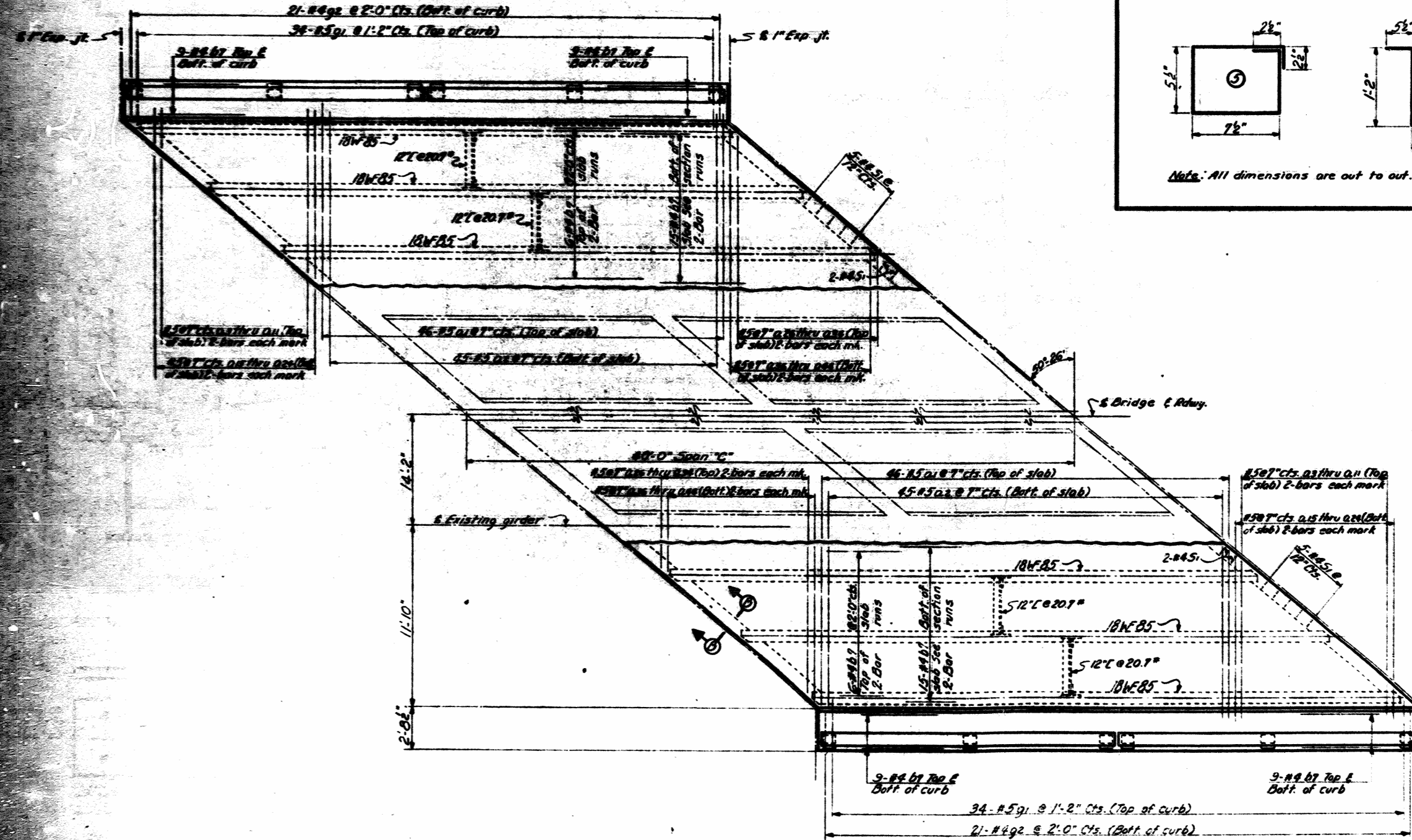
PROJECT No. 811028
 BEAUFORT COUNTY
 STATION: 109+20.05

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUPERSTRUCTURE
 SPANS B & D

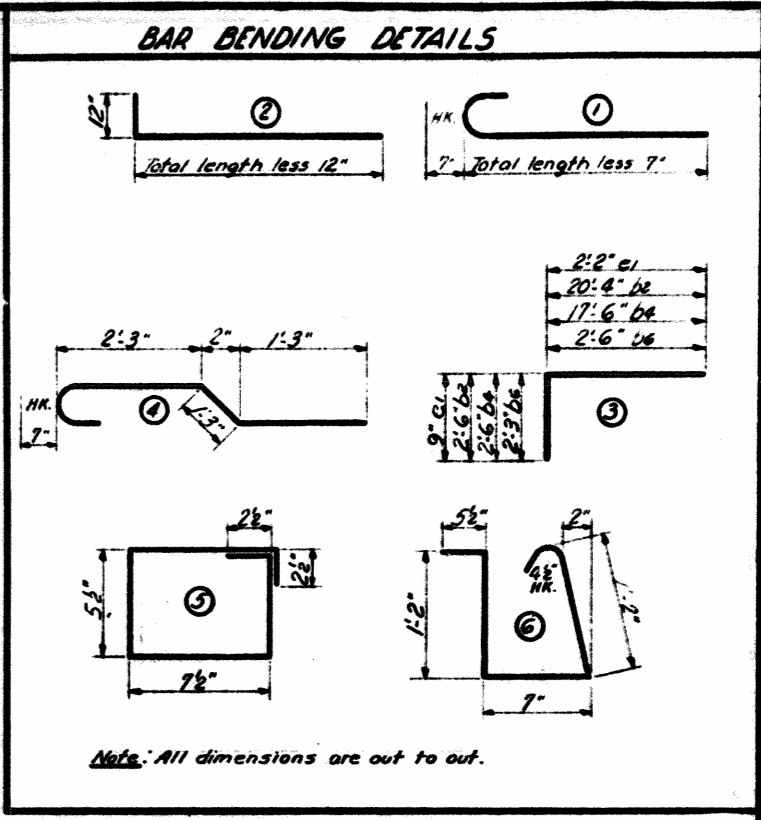
JUNE 1962



RAIL ELEVATION - SPAN C



PLAN - SPAN C

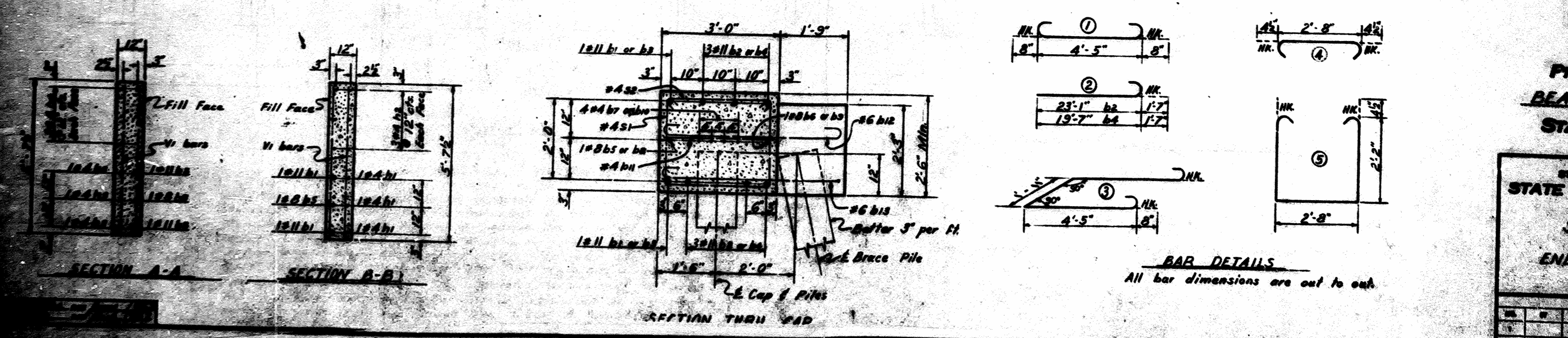
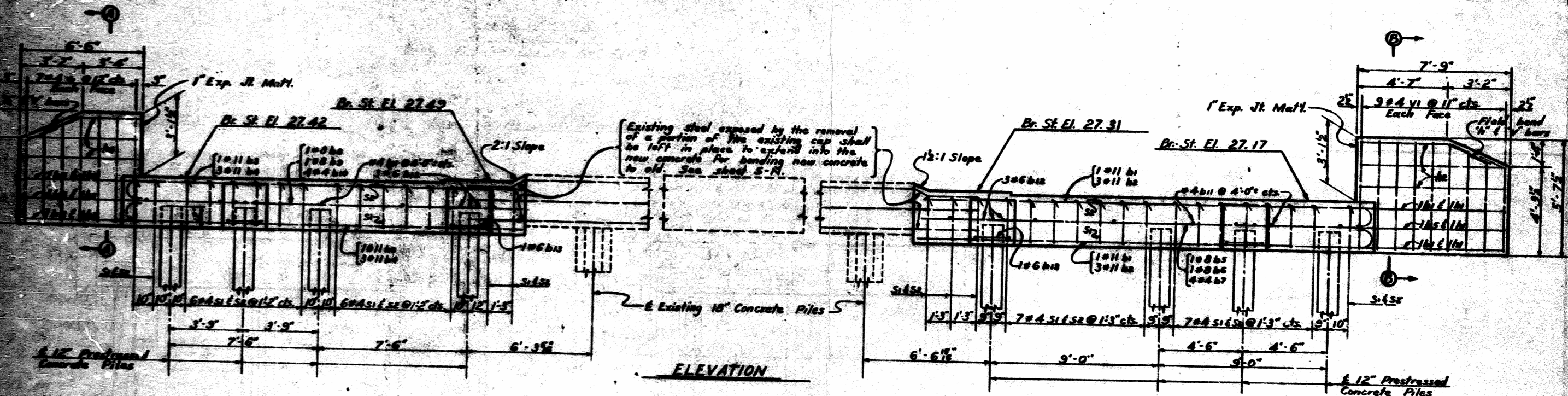
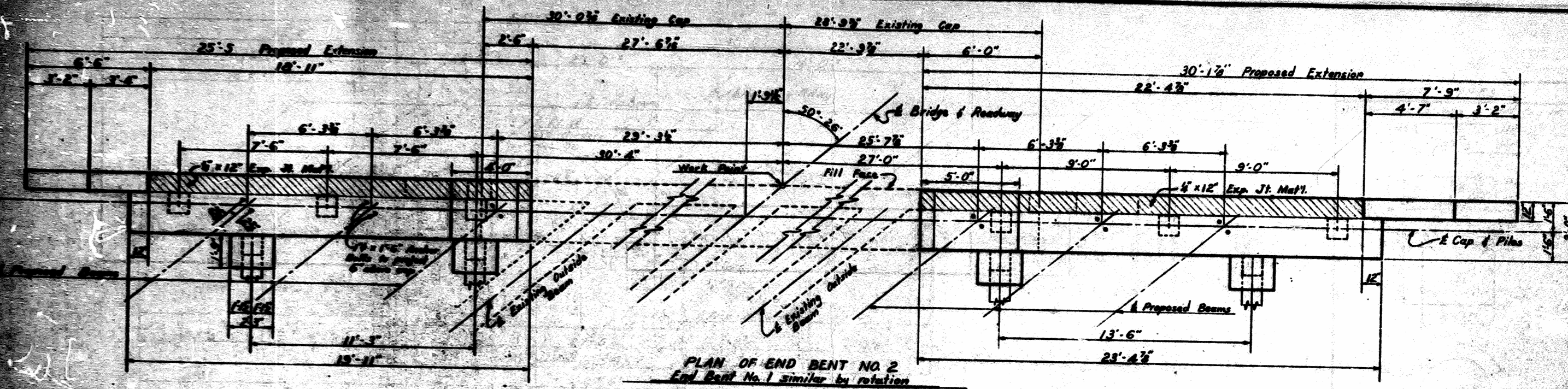


Note: All dimensions are out to out.

TOTAL BILL OF MATERIAL FOR SPANS 'A' 'B' 'C' 'D' 'E'										
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
01	3/4"	#5	12'-2"	4.679	F1	#4	SFR	16'-9"	90	
02	3/4"	#5	12'-5"	4.585	F2	#4	SFR	18'-2"	97	
03	20	#5	17'-3"	2.35	F3	#4	SFR	15'-7"	83	
04	20	#5	10'-3"	2.14	F4	#4	SFR	17'-0"	91	
05	20	#5	5'-4"	1.95	F5	#4	SFR	15'-10"	338	
06	20	#5	1'-8"	1.74	F6	#4	SFR	19'-7"	209	
07	20	#5	7'-5"	1.94						
08	20	#5	6'-5"	1.94						
09	20	#5	5'-6"	1.15	91	292	#5	4'-4"	1624	
10	20	#5	4'-6"	94	92	182	#4	SFR	2'-4"	284
11	20	#5	3'-6"	73						
12	20	#5	11'-9"	245						
13	20	#5	10'-9"	224	hi	348	#2	5'	2'-7"	150
14	20	#5	9'-10"	205						
15	20	#5	8'-10"	184						
16	20	#5	7'-10"	163						
17	20	#5	6'-11"	144						
18	20	#5	5'-11"	125						
19	20	#5	5'-0"	106						
20	20	#5	4'-0"	87						
21	20	#5	3'-1"	68						
22	20	#5	2'-2"	49						
23	20	#5	9'-9"	203	51	192	#4	6'	3'-9"	281
24	20	#5	8'-10"	184						
25	20	#5	7'-10"	163						
26	20	#5	6'-11"	144						
27	20	#5	5'-11"	125						
28	20	#5	5'-0"	106						
29	20	#5	4'-0"	87						
30	20	#5	3'-1"	68						
31	20	#5	2'-2"	49						
32	20	#5	9'-10"	205						
33	20	#5	8'-10"	184						
34	20	#5	7'-10"	163						
35	20	#5	6'-11"	144						
36	20	#5	5'-11"	125						
37	20	#5	5'-0"	106						
38	20	#5	4'-1"	87						
39	20	#5	3'-1"	68						
40	20	#5	2'-2"	49						
41	244	#4	SFR	16'-10"	2,993					
42	8	#4	3	22'-10"	122					
43	10	#4	3	20'-4"	107					
44	8	#4	3	20'-0"	107					
45	10	#4	3	17'-6"	117					
46	64	#4	3	4'-9"	203					
47	120	#4	3	20'-7"	1,650					
Reinforcing Steel: 100% Structural Steel: Approx. 100% Class 'A' Conc. Ck. Yds. 144.0										
C1	243	#4	3	2'-11"	483					

PROJECT No. 8/1028
BEAUFORT COUNTY
STATION: 109+20.05

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUPERSTRUCTURE
SPAN C
JUNE 1952



BILL OF MATERIAL
 FOR ONE BENT (2 REQ'D)

NO.	QTY	DESCRIPTION	UNIT	QTY
B1	2	411 SFD	20-10	317
B2	2	411 SFD	24-8	788
B3	2	411 SFD	25-7	257
B4	6	411 SFD	31-2	675
B5	1	411 SFD	29-10	80
B6	1	411 SFD	25-7	62
B7	4	411 SFD	22-7	67
B8	7	411 SFD	22-7	67
B9	4	411 SFD	22-7	67
B10	1	411 SFD	22-7	67
B11	1	411 SFD	22-7	67
B12	1	411 SFD	22-7	67
B13	1	411 SFD	22-7	67
B14	1	411 SFD	22-7	67
B15	1	411 SFD	22-7	67
B16	1	411 SFD	22-7	67
B17	1	411 SFD	22-7	67
B18	1	411 SFD	22-7	67
B19	1	411 SFD	22-7	67
B20	1	411 SFD	22-7	67
B21	1	411 SFD	22-7	67
B22	1	411 SFD	22-7	67
B23	1	411 SFD	22-7	67
B24	1	411 SFD	22-7	67
B25	1	411 SFD	22-7	67
B26	1	411 SFD	22-7	67
B27	1	411 SFD	22-7	67
B28	1	411 SFD	22-7	67
B29	1	411 SFD	22-7	67
B30	1	411 SFD	22-7	67
B31	1	411 SFD	22-7	67
B32	1	411 SFD	22-7	67
B33	1	411 SFD	22-7	67
B34	1	411 SFD	22-7	67
B35	1	411 SFD	22-7	67
B36	1	411 SFD	22-7	67
B37	1	411 SFD	22-7	67
B38	1	411 SFD	22-7	67
B39	1	411 SFD	22-7	67
B40	1	411 SFD	22-7	67
B41	1	411 SFD	22-7	67
B42	1	411 SFD	22-7	67
B43	1	411 SFD	22-7	67
B44	1	411 SFD	22-7	67
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B46	1	411 SFD	22-7	67
B47	1	411 SFD	22-7	67
B48	1	411 SFD	22-7	67
B49	1	411 SFD	22-7	67
B50	1	411 SFD	22-7	67
B51	1	411 SFD	22-7	67
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B98	1	411 SFD	22-7	67
B99	1	411 SFD	22-7	67
B100	1	411 SFD	22-7	67

PROJECT NO. 8-11026
 BEAUFORT COUNTY
 STATION 109+20.00

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 END BENT NO. 1-1

June 1962