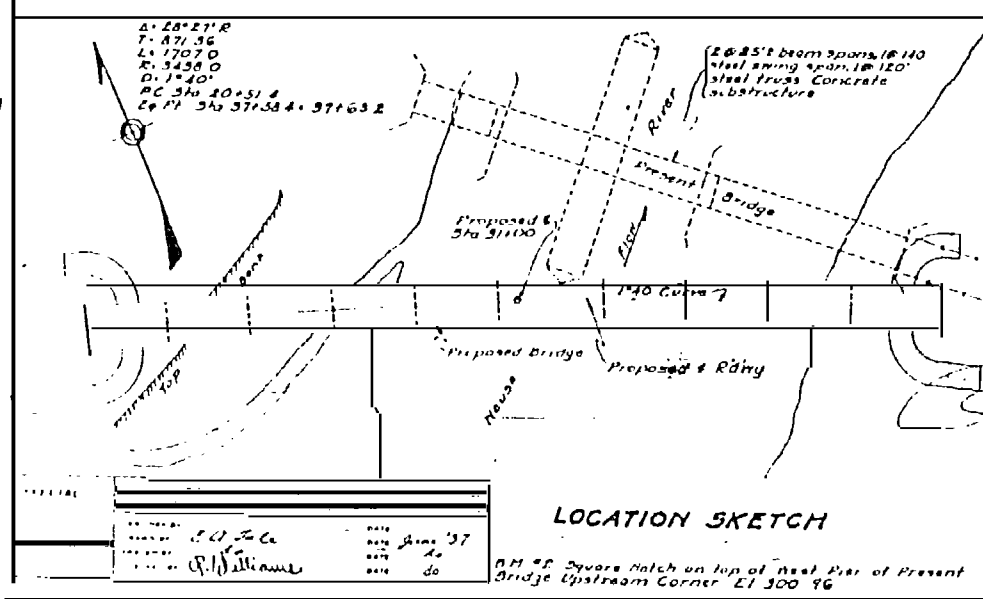


DIVISION OF CLASS A CONCRETE

Maximum size of coarse aggregate	Cu Yds
3" 50	
1 1/2" 778.7	
Total Class A Concrete	808.7



GENERAL NOTE:
 Class A concrete shall be used throughout maximum size of coarse aggregate shall be 1 1/2" except in handrails maximum size of coarse aggregate in handrails shall be 3".
 All exposed corners of concrete shall be chamfered except corners on handrails and expansion joints. Handrail corners shall be chamfered.
 Expansion joint material shall be placed in the operation allowing no time for initial set to take place between them.
 All concrete except that in handrails shall be compacted by mechanical vibration. See special specifications in the proposal.
 All reinforcing steel shall be deformed bars. All dimensions relative to reinforcement are to center of bars.
 Bars shall be spliced 30 diameters only the splices shown on plans will be permitted.
 All reinforcing steel shall be securely held in correct position.
 Structural steel shall meet all the requirements of the specifications of the N.C. State Highway and Public Works Commission.
 Structural steel shall be given one shop coat and one field coat of red lead and finally, one field coat of aluminum paint.
 Detail drawings of structural steel shall be submitted for approval.
 No unchecked drawings will be accepted.
 All rivets shall be 3/4" field connections shall be riveted.
 Expansion joint material may be either rubber or cork as called for in the specifications.
 Two name plates shall be placed on the bridge, one on each right hand end post approaching the bridge.
 All excavation and foundation data and elevations of ground line and water surfaces are delivered to be correct and are furnished for the convenience of bidders but the N.C. State Highway and Public Works Commission assumes no responsibility for any omissions or errors in the information given.
 All material and workmanship shall be in complete accordance with the specifications of the North Carolina State Highway and Public Works Commission.
 Note: Maximum size of coarse aggregate in pre-cast piles shall be 3/4". Coarse aggregate shall consist of crushed stone only. All piles shall be driven to a bearing capacity of 40 tons each. Pile lengths as listed are approximate only. Exact lengths will be determined after driving of test piles.

BRIDGE SEAT ELEVATIONS

	G1	G2	G3	G4
End Bent #1	309.16	308.07	308.63	308.36
Bent #1	310.56	310.07	309.83	309.56
Bent #2	311.33	311.07	310.83	310.53
Bent #3	312.01	311.80	311.53	311.47
Bent #4	312.37	312.30	312.05	311.77
Bent #5	312.64	312.57	312.30	312.07
Bent #6	312.84	312.57	312.30	312.04
Bent #7	312.57	312.30	312.03	311.77
Bent #8	312.07	311.80	311.53	311.47
Bent #9	311.33	311.07	310.80	310.48
End Bent #2	310.56	310.07	309.83	309.56

FOR Steel Beams

	B1	B2	B3	B4	B5
Bent #1	312.47	312.27	312.03	311.63	311.41
Bent #2	312.47	312.27	312.03	311.63	311.41

TOTAL BILL OF MATERIAL

	Conc Class A Cu Yds	Reinf Steel Lbs	Struct Steel Lbs	Galv Steel Lbs	Conc Riprap Cu Yds	Expansion Joints No	Expansion Joints No	Expansion Joints No	Expansion Joints No	Expansion Joints No
Span A	71.7	2197.9	—	94	—	—	—	—	—	—
Span B	70.7	2200	—	94	—	—	—	—	—	—
Span C	70.7	2200	—	94	—	—	—	—	—	—
Span D	71.7	2206.8	—	94	—	—	—	—	—	—
Span E	70.9	2197.4	—	94	—	—	—	—	—	—
Span F	50.8	1222.3	51900	—	—	—	—	—	—	—
Span G	70.7	2200	—	94	—	—	—	—	—	—
Span H	70.7	2200	—	94	—	—	—	—	—	—
Span I	70.7	2200	—	94	—	—	—	—	—	—
Span J	71.7	2197.9	—	94	—	—	—	—	—	—
End Bent #1	12.4	162.9	—	—	300	5	21.4	—	—	—
Bent #1	10.4	161.2	—	94	—	—	5	1.3	—	—
Bent #2	10.4	161.2	—	94	—	—	5	2.1	—	—
Bent #3	10.4	161.2	—	94	—	—	5	2.5	—	—
Bent #4	10.7	151.6	—	220	—	—	5	2.73	—	—
Bent #5	10.7	161.2	—	94	—	—	5	2.14	—	—
Bent #6	10.7	151.6	—	94	—	—	5	2.50	—	—
Bent #7	10.4	161.2	—	94	—	—	5	2.11	—	—
Bent #8	10.4	161.2	—	94	—	—	5	2.25	—	—
Bent #9	10.4	161.2	—	94	—	—	5	2.11	—	—
End Bent #2	12.4	162.9	—	—	490	5	11.1	—	—	—
Precast	6.1	—	—	—	—	—	—	—	—	—
Totals	80.7	27,777	51,900	1,124	3,110	10	21.43	—	—	—

Includes 63 lbs galvanized steel pipe to be paid for as structural steel.
 Includes 61,715 lbs galvanized steel bars to be paid for as reinforcing steel.
 *Unloaded timber

PROJECT NO. 2562
 LENOIR COUNTY
 STA. 31+00

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 SPECIAL
 GENERAL DRAWING
 FOR
 OAKS BRIDGE
 OVER
 HEUSE RIVER
 JUNE 1957

2562

20

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL	REMARKS
1	Title Sheet					
2	Dr. BRIDGE OVER RR 1/2 MILE EAST OF					
3	Special Alignment Plan					
4	Special Superstructure Details					
5	Special Abutment Details					
6	Special Pier Details					
7	Standard Detail Showing Drains Through Concrete Walls					
8	Standard Detail RC Abut.					
9	Computations for Pole Lengths and Steel					
10	Special Rip Rap Details					
11	2 SIDES OVER SIXTEEN ELEVATION					
12	Special General Location					
13	Special Superstructure Detail					
14	Special Details of Abutment					
15	" " " "					
16	" " " "					
17	Standard Form Work for Concrete Bridges					
18	CONVERT STA 58190					
19	Standard Graduate 1/2 IN. RC. Box Culvert					
20	Summary of Quantities					
21	The Final Estimate					

FINAL ESTIMATE ON NORTH CAROLINA PROJECT NO 2562

FR 60 REOP. FR 60-B
 FOR

STRUCTURES ON ROUTE US TO 3 MILES EAST OF WINSTON TOWARD VEYV BERT

LENOIR COUNTY, N.C.

DIVISION NO. 2

CONTRACTOR - KIKER & YOUNT, REIDSVILLE, N.C.

CONTRACT LET 8-17-37

WORK COMPLETED 8-27-38

H.W. SPRUIELL DIVISION ENGINEER
 J.B. BROACH ASSOCIATE CONSTRUCTION ENGINEER
 J. GILBERT RESIDENT ENGINEER
 H.L. BARDELL MASONRY INSPECTOR
 W.L. JIMISON " "

ITEMS	AMOUNT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Steel	1000	100	100	100	100	100
Concrete	2000	200	200	200	200	200
Formwork	500	50	50	50	50	50
Other	100	10	10	10	10	10
Total	3500	350	350	350	350	350

There is an overrun in steel amounting to 178 lbs. due to this was caused by lengthening the standard design on both bridges and lengthening the cap for bent No. 2 on the main bridge. These changes were authorized by Mr. Broach and were made for the sake of appearance.

There is an overrun in reinforcing steel amounting to 178 lbs. due to this was caused by lengthening the standard design on both bridges and lengthening the cap for bent No. 2 on the main bridge. These changes were authorized by Mr. Broach and were made for the sake of appearance.

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There is an overrun in precast concrete piles amounting to 200 lbs. due to the fact that it was necessary to drive these piles to a lower elevation than was estimated to obtain the required bearing.

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NOTE: The Final Survey Note Books, properly marked and described, submitted herewith as a part of this Final Estimate are as follows:

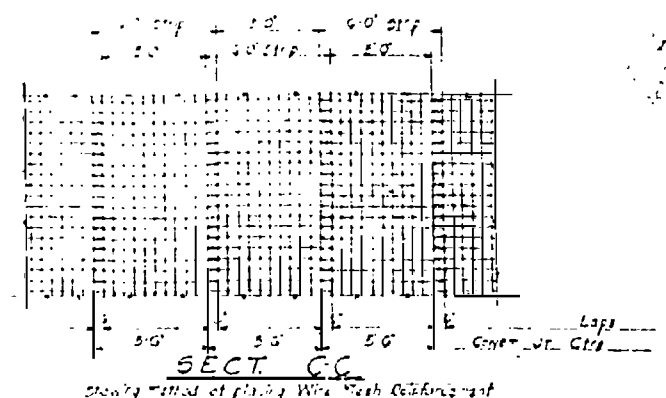
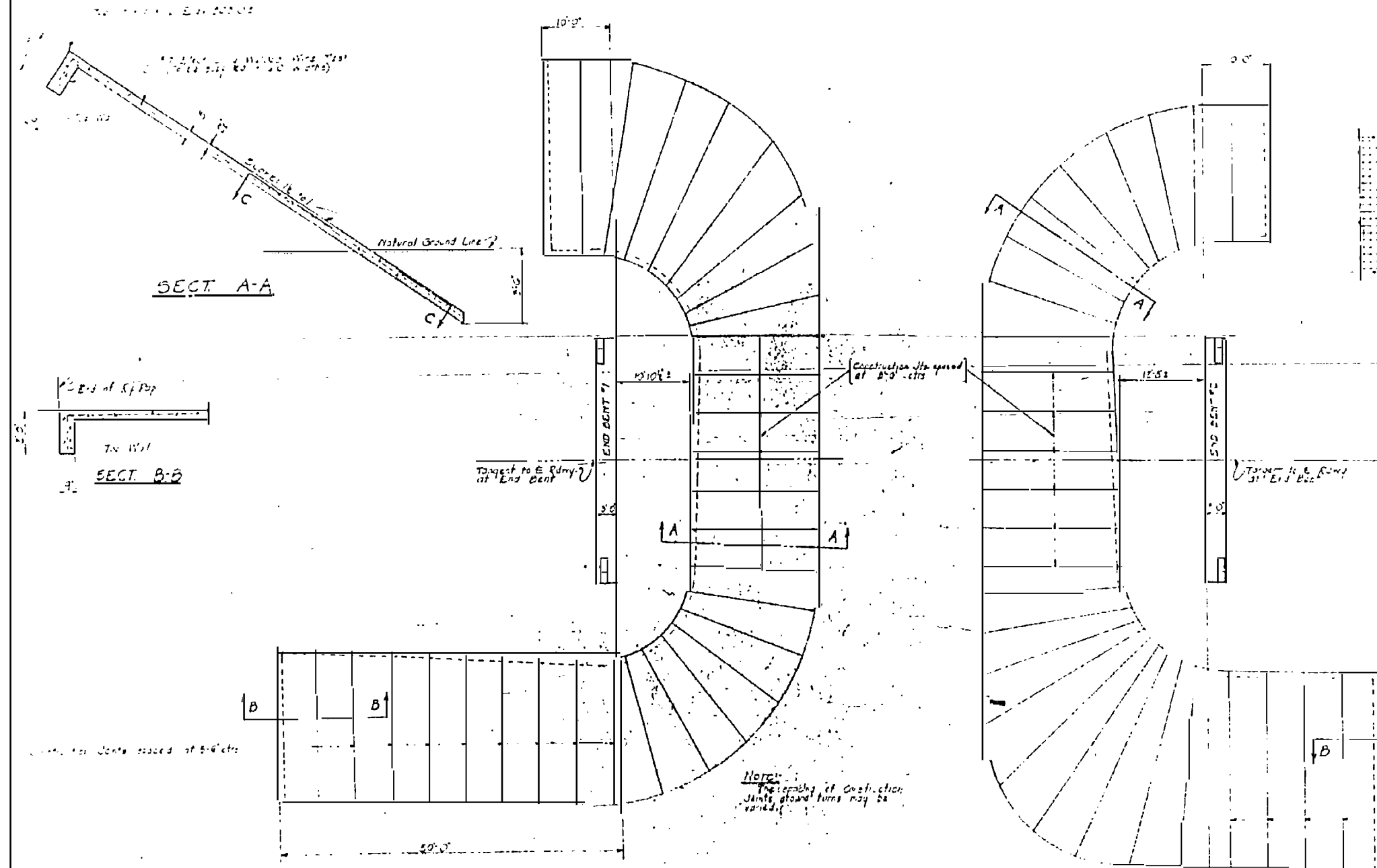
- 1. Miscellaneous Books Showing Detail Sketches, Sectional Drawings and Computations of Quantities for all Masonry, Steel, Piling, Etc.
- 2. Diaries Showing Resident Engineers, Daily Record of Forces and Equipment, Working Days, Weather, Connections and all important Events connected with the work.
- 3. Pile Log Book Showing miles that cars were driven each day on the project.

FINAL SURVEY NOTE BOOK

ORIGINAL SURVEY NOTE BOOK

FED. AID DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N.C.	2562	11	12

FA Proj. No. 60-B



GENERAL NOTE:-
 All concrete shall be Class 'B' minimum size of coarse aggregate shall be 1/2".
 The reinforcement shall be #7 electrically welded wire mesh. The wires of the mesh shall be spaced 6" on center in both directions.
 All material and workmanship shall be in accordance with the specifications of the N.C. State Highway & Public Works Comm.

Note: In the case of wire mesh reinforcement, the use of such material shall be subject to the approval of the Engineer. The material, labor, and necessary permits shall be provided by the contractor at his own expense.

BILL OF MATERIAL
(FOR CONCRETE R.P. RAP)

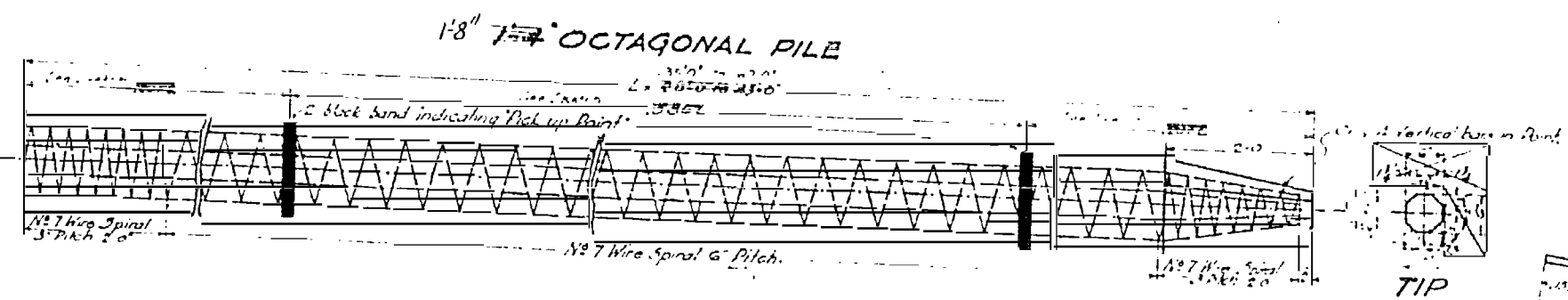
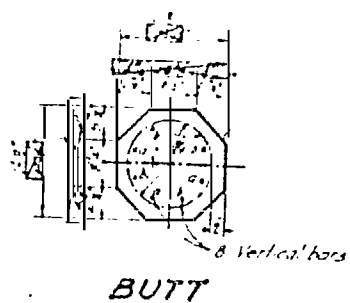
	Concrete to Exp. 60' 0"	6" x 6" #7 Electrically Welded Wire Mesh (Grid 6")	Concrete to Exp. 60' 0"
End Bent #1	500	850	72
End Bent #2	400	800	70
TOTALS	900	1650	142

PROJECT NO 2562
 LENOIR COUNTY
 STA: 31+00

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 DATE OF
SPECIAL
RIP RAP DETAILS
 FOR
OAKS BRIDGE
OVER
NEUSE RIVER
 JUNE 1937

DATE	1937
SCALE	AS SHOWN
DESIGNED BY	W. H. HARRIS
CHECKED BY	W. H. HARRIS
APPROVED BY	W. H. HARRIS

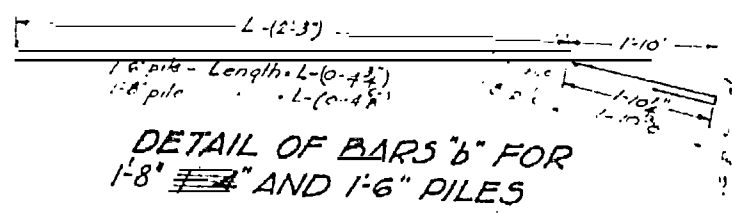
NO.	DATE	BY	REVISION
10	N.C.		



QUANTITIES FOR ONE 1-8" OCTAGONAL PILE

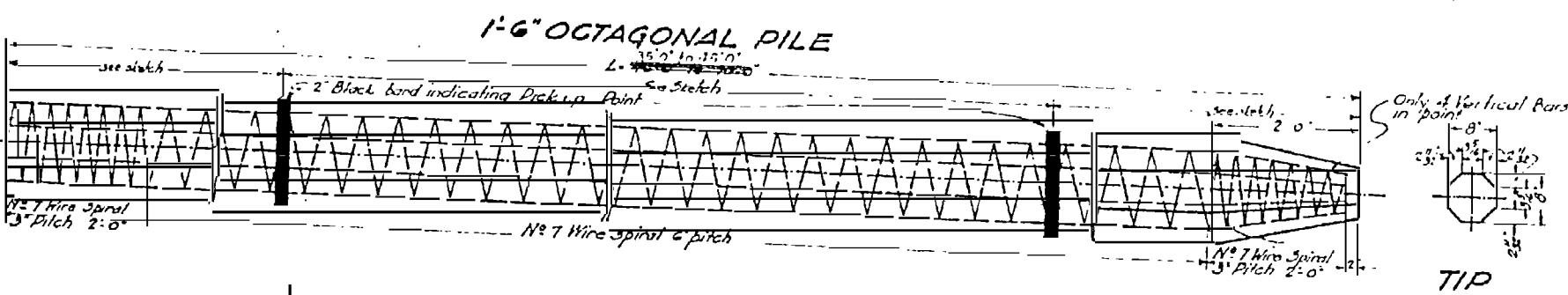
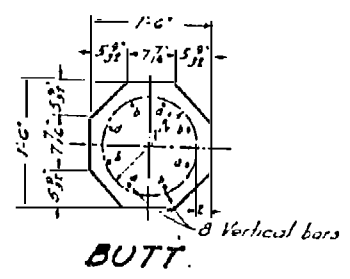
LENGTH	NO. OF BARS	SIZE	LENGTH	TOTAL REIN. STEEL	CONCRETE	PILE WT.	TWO PICKUP POINTS	THREE PICKUP POINTS
25'-0"	8	1 1/8"	25'-0"	169	1.04	271	4'-9"	11'-0"
35'-0"	8	1 1/8"	35'-0"	229	1.51	265	5'-9"	14'-0"
45'-0"	8	1 1/8"	45'-0"	289	1.98	259	6'-9"	17'-0"
55'-0"	8	1 1/8"	55'-0"	349	2.45	253	7'-9"	20'-0"
65'-0"	8	1 1/8"	65'-0"	409	2.92	247	8'-9"	23'-0"
75'-0"	8	1 1/8"	75'-0"	469	3.39	241	9'-9"	26'-0"

Concrete per cu ft of pile = 0.0545 cu yds
Conc. in point = 0.055 cu yds



METHOD OF PICKING UP 1-8" PILES GO FEET AND OVER 3 PICKUP POINTS.

METHOD OF PICKING UP 1-8" AND 1-6" PILES UNDER 60 FEET 2 PICKUP POINTS



QUANTITIES FOR ONE 1-6" OCTAGONAL PILE

LENGTH	NO. OF BARS	SIZE	LENGTH	TOTAL REIN. STEEL	CONCRETE	PILE WT.	TWO PICKUP POINTS	THREE PICKUP POINTS
45'-0"	8	1 1/8"	45'-0"	289	1.98	259	9'-6"	27'-0"
50'-0"	8	1 1/8"	50'-0"	329	2.25	253	10'-4"	29'-0"
55'-0"	8	1 1/8"	55'-0"	369	2.52	247	11-4 1/2"	32'-0"
60'-0"	8	1 1/8"	60'-0"	409	2.79	241	12-4 1/2"	35'-0"
65'-0"	8	1 1/8"	65'-0"	449	3.06	235	13-4 1/2"	38'-0"
70'-0"	8	1 1/8"	70'-0"	489	3.33	229	14-4 1/2"	41'-0"

Concrete per cu ft of pile = 0.0545 cu yds
Conc. in point = 0.055 cu yds

GENERAL NOTE:
Concrete shall be Class A. Maximum size of coarse aggregate to be 3/4" coarse aggregate shall consist of crushed stone only. All reinforcing steel shall be deformed bars. No splices of bars will be permitted. The spiral hooping shall be wired to the vertical bars at intervals of not more than 20" in driving piles a method approved by the Engineer shall be used where the head of the pile is not damaged. Concrete in pre-cast piles shall be compacted by means of vibration. See special specifications in the Program.
All material and workmanship as per the specifications of the North Carolina State Highway and Public Works Commission.

QUANTITIES FOR ONE 1-6" OCTAGONAL PILE

LENGTH	NO. OF BARS	SIZE	LENGTH	TOTAL REIN. STEEL	CONCRETE	PILE WT.	TWO PICKUP POINTS	THREE PICKUP POINTS
35'-0"	8	1 1/8"	35'-0"	229	1.51	265	5'-9"	14'-0"
40'-0"	8	1 1/8"	40'-0"	269	1.78	259	6'-9"	17'-0"
45'-0"	8	1 1/8"	45'-0"	309	2.05	253	7'-9"	20'-0"

QUANTITIES FOR ONE 1-8" OCTAGONAL PILE

LENGTH	NO. OF BARS	SIZE	LENGTH	TOTAL REIN. STEEL	CONCRETE	PILE WT.	TWO PICKUP POINTS	THREE PICKUP POINTS
35'-0"	8	1 1/8"	35'-0"	229	1.51	265	5'-9"	14'-0"
40'-0"	8	1 1/8"	40'-0"	269	1.78	259	6'-9"	17'-0"
45'-0"	8	1 1/8"	45'-0"	309	2.05	253	7'-9"	20'-0"
50'-0"	8	1 1/8"	50'-0"	349	2.32	247	8'-9"	23'-0"
55'-0"	8	1 1/8"	55'-0"	389	2.59	241	9'-9"	26'-0"
60'-0"	8	1 1/8"	60'-0"	429	2.86	235	10'-9"	29'-0"

SUMMARY OF PILES

NO.	LENGTH	DIAMETER	CONC. CU. YDS.	PILE WT. LBS.
11	45'-0"	1-6"	33	2500
12	45'-0"	1-6"	33	2500
13	45'-0"	1-6"	33	2500
14	45'-0"	1-6"	33	2500
15	45'-0"	1-6"	33	2500
16	45'-0"	1-6"	33	2500
17	45'-0"	1-6"	33	2500
18	45'-0"	1-6"	33	2500
19	45'-0"	1-6"	33	2500
20	45'-0"	1-6"	33	2500
21	45'-0"	1-6"	33	2500
22	45'-0"	1-6"	33	2500
23	45'-0"	1-6"	33	2500
24	45'-0"	1-6"	33	2500
25	45'-0"	1-6"	33	2500
26	45'-0"	1-6"	33	2500
27	45'-0"	1-6"	33	2500
28	45'-0"	1-6"	33	2500
29	45'-0"	1-6"	33	2500
30	45'-0"	1-6"	33	2500
31	45'-0"	1-6"	33	2500
32	45'-0"	1-6"	33	2500
33	45'-0"	1-6"	33	2500
34	45'-0"	1-6"	33	2500
35	45'-0"	1-6"	33	2500
36	45'-0"	1-6"	33	2500
37	45'-0"	1-6"	33	2500
38	45'-0"	1-6"	33	2500
39	45'-0"	1-6"	33	2500
40	45'-0"	1-6"	33	2500
41	45'-0"	1-6"	33	2500
42	45'-0"	1-6"	33	2500
43	45'-0"	1-6"	33	2500
44	45'-0"	1-6"	33	2500
45	45'-0"	1-6"	33	2500
46	45'-0"	1-6"	33	2500
47	45'-0"	1-6"	33	2500
48	45'-0"	1-6"	33	2500
49	45'-0"	1-6"	33	2500
50	45'-0"	1-6"	33	2500
51	45'-0"	1-6"	33	2500
52	45'-0"	1-6"	33	2500
53	45'-0"	1-6"	33	2500
54	45'-0"	1-6"	33	2500
55	45'-0"	1-6"	33	2500
56	45'-0"	1-6"	33	2500
57	45'-0"	1-6"	33	2500
58	45'-0"	1-6"	33	2500
59	45'-0"	1-6"	33	2500
60	45'-0"	1-6"	33	2500
61	45'-0"	1-6"	33	2500
62	45'-0"	1-6"	33	2500
63	45'-0"	1-6"	33	2500
64	45'-0"	1-6"	33	2500
65	45'-0"	1-6"	33	2500
66	45'-0"	1-6"	33	2500
67	45'-0"	1-6"	33	2500
68	45'-0"	1-6"	33	2500
69	45'-0"	1-6"	33	2500
70	45'-0"	1-6"	33	2500
71	45'-0"	1-6"	33	2500
72	45'-0"	1-6"	33	2500
73	45'-0"	1-6"	33	2500
74	45'-0"	1-6"	33	2500
75	45'-0"	1-6"	33	2500
76	45'-0"	1-6"	33	2500
77	45'-0"	1-6"	33	2500
78	45'-0"	1-6"	33	2500
79	45'-0"	1-6"	33	2500
80	45'-0"	1-6"	33	2500
81	45'-0"	1-6"	33	2500
82	45'-0"	1-6"	33	2500
83	45'-0"	1-6"	33	2500
84	45'-0"	1-6"	33	2500
85	45'-0"	1-6"	33	2500
86	45'-0"	1-6"	33	2500
87	45'-0"	1-6"	33	2500
88	45'-0"	1-6"	33	2500
89	45'-0"	1-6"	33	2500
90	45'-0"	1-6"	33	2500
91	45'-0"	1-6"	33	2500
92	45'-0"	1-6"	33	2500
93	45'-0"	1-6"	33	2500
94	45'-0"	1-6"	33	2500
95	45'-0"	1-6"	33	2500
96	45'-0"	1-6"	33	2500
97	45'-0"	1-6"	33	2500
98	45'-0"	1-6"	33	2500
99	45'-0"	1-6"	33	2500
100	45'-0"	1-6"	33	2500

SPECIAL: APPROVED BY: *[Signature]* DATE: *[Date]*
STANDARD: APPROVED BY: *[Signature]* DATE: *[Date]*

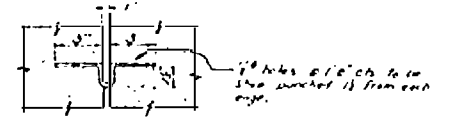
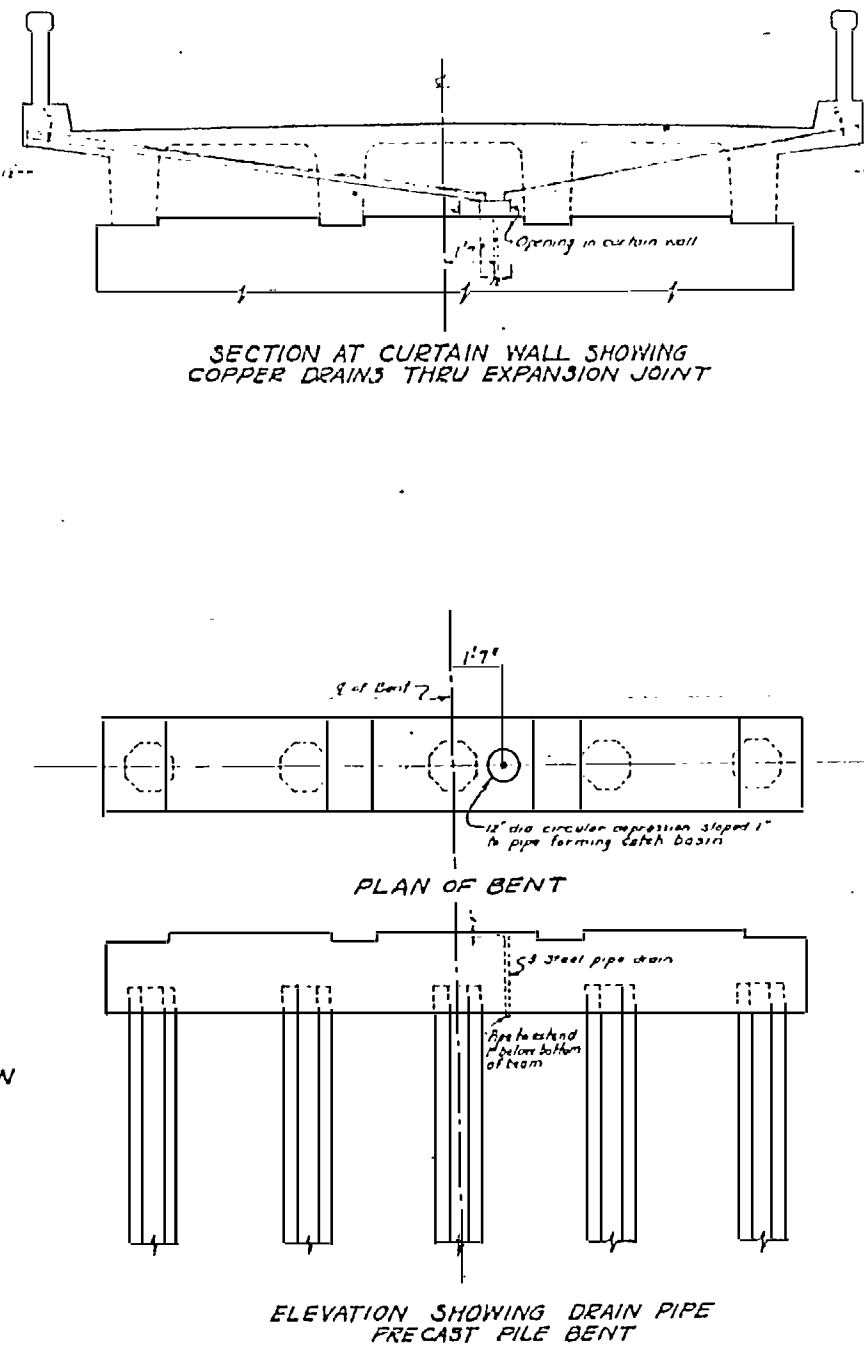
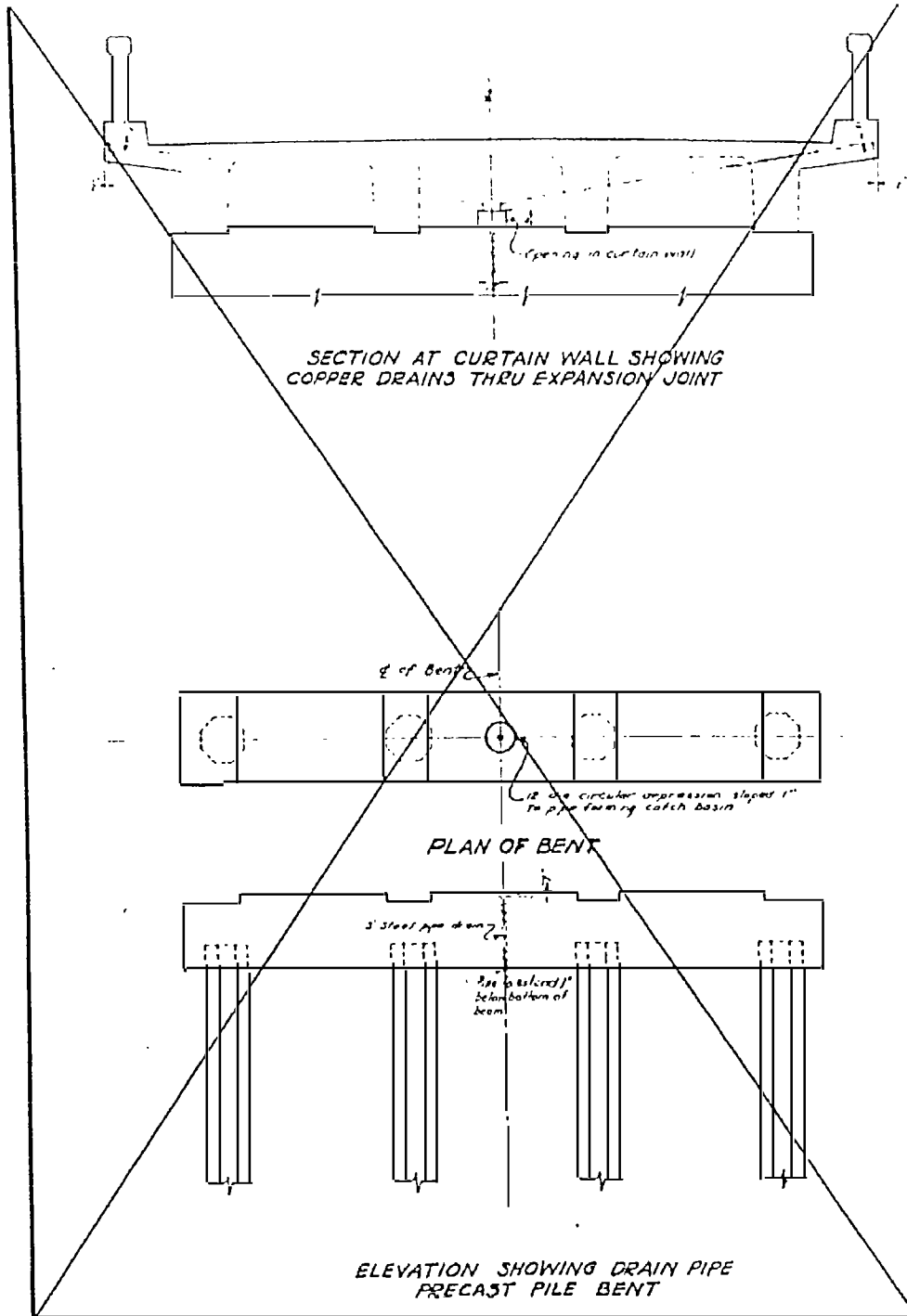
Revised to allow only crushed stone for coarse aggregate May 1, 1925
Traced and revised as to Class A concrete & size of aggregate by EHP & H.S. & by D.R.S. 10-31
Revised May 24, 1926 for concrete quantities and pile weight by EHP & H.S. Checked by B.P.R.
Revised Jan. 31, 1928 for weight reinforcing steel, go length by J.G.
Revised for 1/8" bars, 60' pile, 4-10-24 by A.E. Ross.
Revised for 1/8" bars, 10-16-22 by P.P.H. checked by G.T.B. Revised June 31, 1927 for Pickup Points by G.P.R. & by T.P.W. Jr.
Revised 1931 for length of bars & weight of bars by F.W.V.

REINFORCING STEEL LBS
CONCRETE CLASS A CU YDS
TOTAL PILES NOS
LENGTHS OF PILES ARE SUBJECT TO VARIATIONS TO SOIL CONDITIONS AS FOUND

PROJECT NO. 2562
LENOIR COUNTY
STA. 31+00

STATE OF NORTH CAROLINA
STATE HIGHWAY & PUBLIC WORKS COMMISSION
STANDARD PRE-CAST R.C. PILES
SEPTEMBER 1925

NO. 10	N.C.	2562	74
All Project No. 60-2			



MAKE 6 PIECES 10' x 15'-3" LONG
 MAKE 6 PIECES 10' x 12'-0" LONG

Note: Copper flashing and steel pipe drains to be provided for bents

GENERAL NOTE: except of Bents 4, 5 & 6
 Copper drains shall be placed in expansion joints between spans of all bents as shown. Copper for drains to be of the best grade, 20 gauge 24oz sheet copper and shall be shop bent. The cost of same shall be included in contract unit price bid for reinforcing steel, which price shall include cost of drains complete in place and all labor, tools and materials incidental thereto, including the steel pipe in bents.

PROJECT NO. 2562
 LENOIR COUNTY
 STA. 31+00

SPECIAL	APPROVED BY: <i>E. J. Julian</i>	DATE: <i>July 1937</i>
STANDARD	DESIGNED BY: <i>E. J. Julian</i>	DATE: <i>March 1936</i>
	CHECKED BY: <i>P. P. Howard</i>	DATE: <i>March 1936</i>

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION

STANDARD
 DETAILS SHOWING COPPER DRAINS
 THRU CURTAIN WALLS
 R.C. DECK GIRDER
 MARCH 1936

W. H. ... ENGINEER

W. H. ... STATE ENGINEER

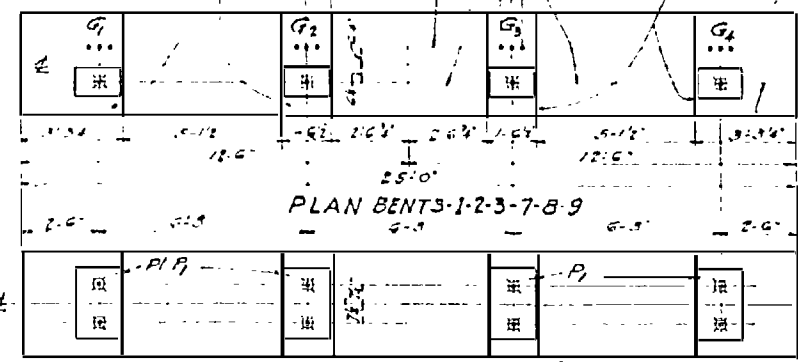
M-732-PCP

Note: For fixed sides and E.P. 305 of Bents see Gen Day

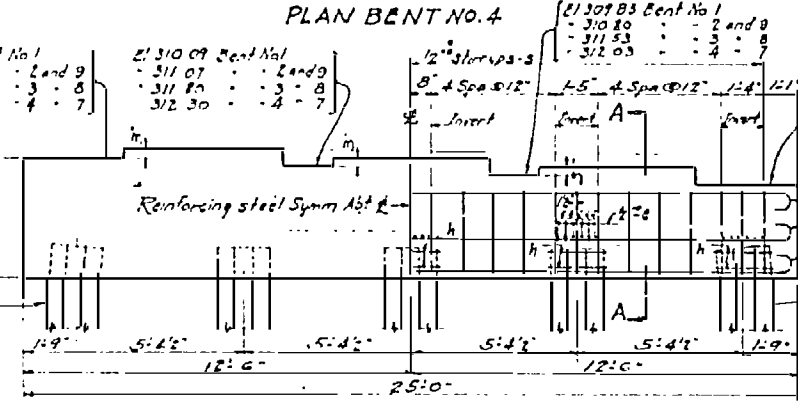
Note: For fixed sides and E.P. 305 of Bents see Gen Day

Note: For fixed sides and E.P. 305 of Bents see Gen Day

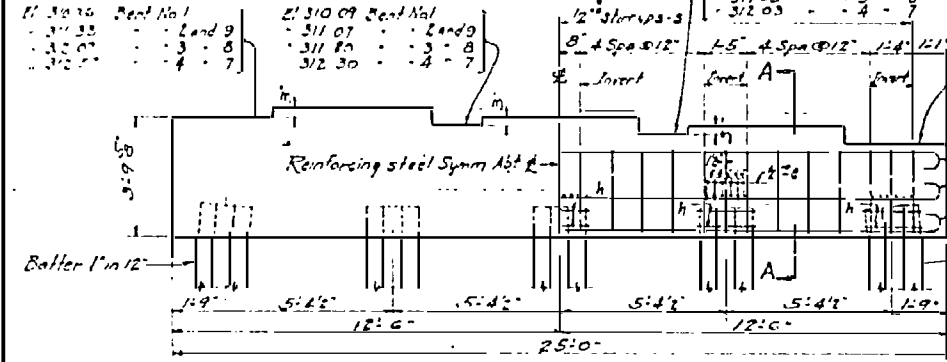
Note: For fixed sides and E.P. 305 of Bents see Gen Day



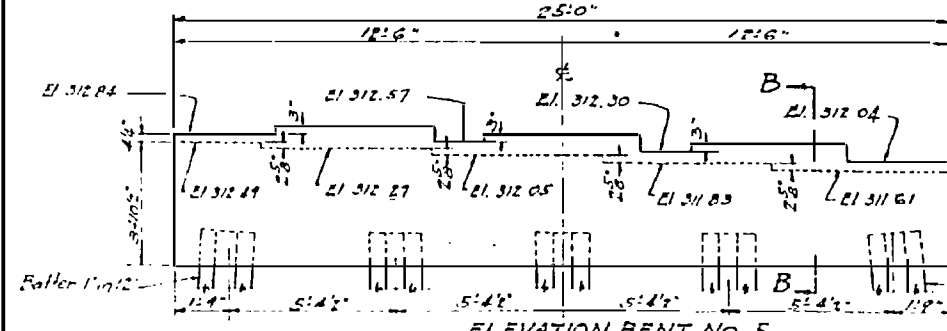
PLAN BENTS 1-2-3-7-8-9



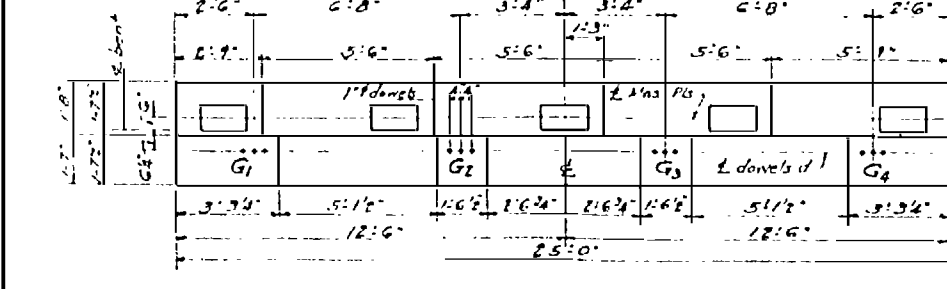
PLAN BENT NO. 4



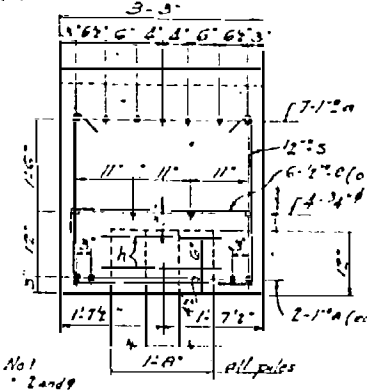
EAST ELEVATION BENTS NO. 1-2-3-4-7-8-9



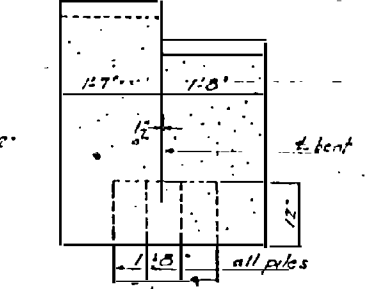
ELEVATION BENT NO. 5



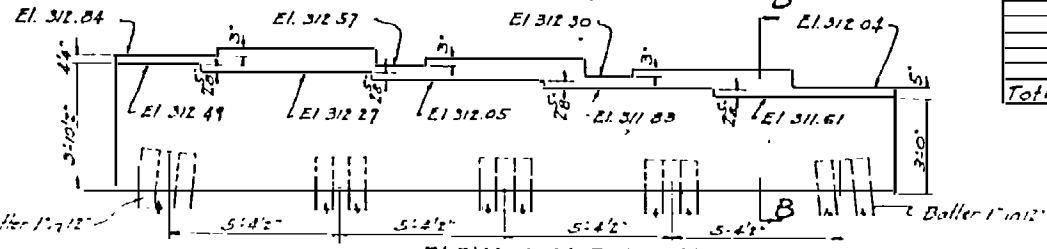
PLAN BENT NO. 5



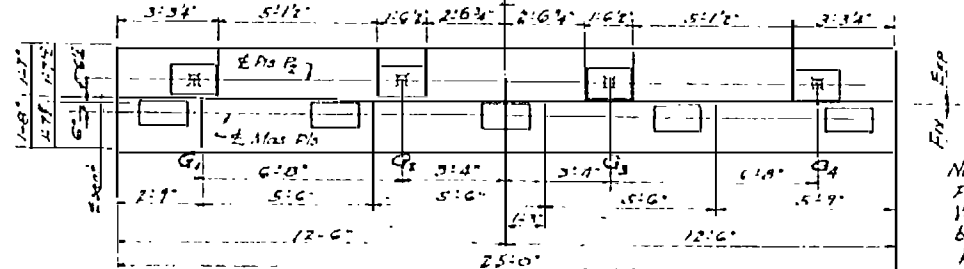
SEC. A-A



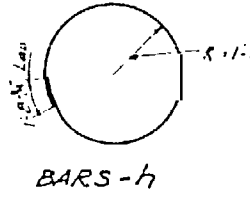
SEC. B-B (Reinf steel same as in Sec. A-A)



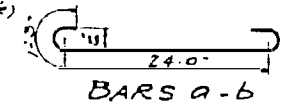
ELEVATION BENT NO. 6



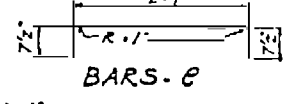
PLAN BENT NO. 6



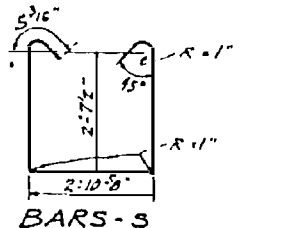
BARS - h



BARS a-b



BARS c



BARS s

ONE BENT
BILL OF MATERIAL
BENTS NO. 1-2-3-7-8-9

Bar No	Size	Length	Weight
a	11	26'-6"	991
b	4	26'-6"	159
c	30	4'-0"	102
s	27	9'-0"	207
h	10	8'-6"	57
d	12	3'-0"	96

Reinforcing Steel Lbs 1612
Conc. Cl. A' Cu Yds 10.4
Plates and Bolts Lbs 94
Precast Conc Piles No 5

BILL OF MATERIAL
BENT NO. 4

Bar No	Size	Length	Weight
a	11	26'-6"	991
b	4	26'-6"	159
c	30	4'-0"	102
s	27	9'-0"	207
h	10	8'-6"	57

Reinforcing Steel Lbs 1516
Conc. Cl. A' Cu Yds 10.4
Plates and Bolts Lbs 220
Precast Conc Piles No 5

BILL OF MATERIAL
BENT NO. 5

Bar No	Size	Length	Weight
a	11	26'-6"	991
b	4	26'-6"	159
c	30	4'-0"	102
s	27	9'-0"	207
h	10	8'-6"	57
d	12	3'-0"	96

Reinforcing Steel Lbs 1612
Conc. Cl. A' Cu Yds 10.7
Plates and Bolts Lbs 94
Precast Conc Piles No 5

BILL OF MATERIAL
BENT NO. 6

Bar No	Size	Length	Weight
a	11	26'-6"	991
b	4	26'-6"	159
c	30	4'-0"	102
s	27	9'-0"	207
h	10	8'-6"	57

Reinforcing Steel Lbs 1516
Conc. Cl. A' Cu Yds 10.7
Plates and Bolts Lbs 94
Precast Conc Piles No 5

Approx. Lin. Ft. Precast Conc. Piling

Bent No	Approx. Lin. Ft. Precast Conc. Piling
1	200
2	225
3	250
4	275
5	250
6	250
7	250
8	225
9	200
Total	2125

PROJECT NO. 2562
LENOIR COUNTY
STA. 31+00

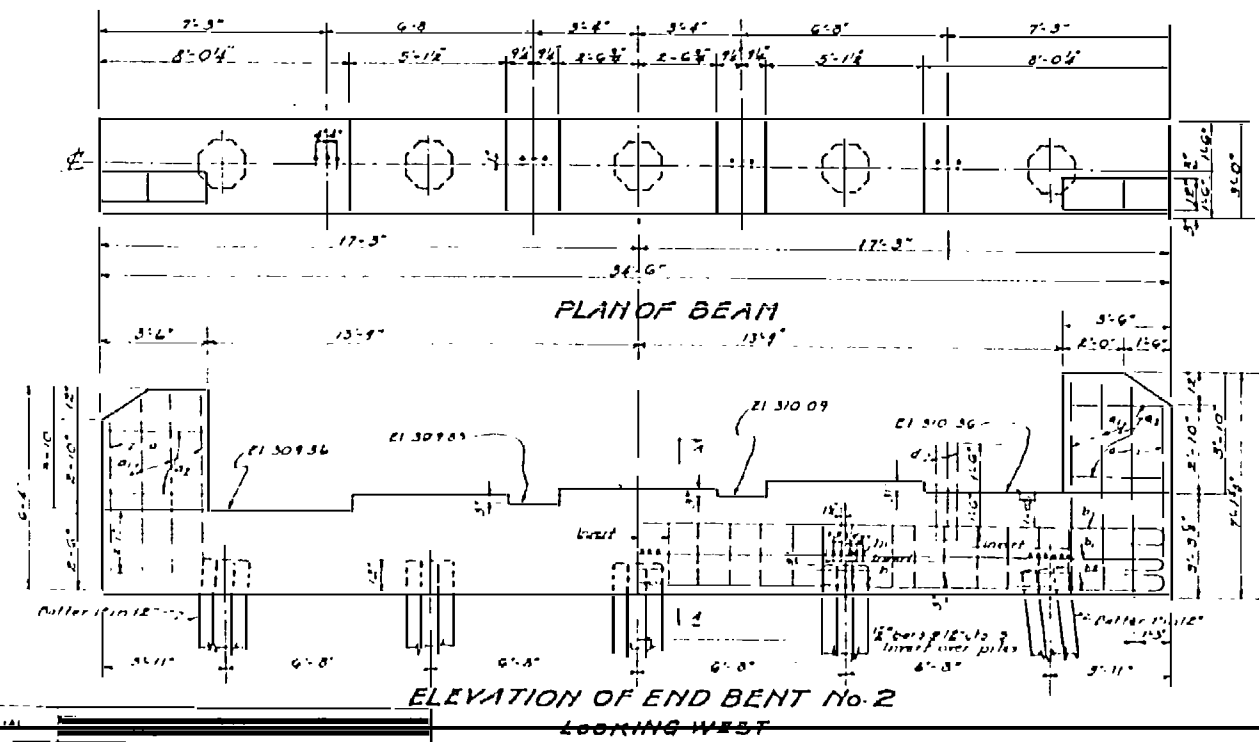
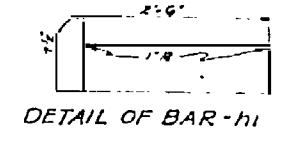
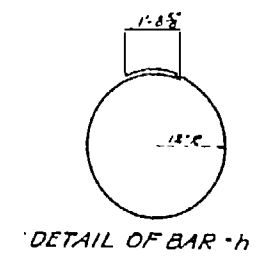
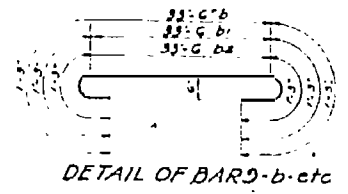
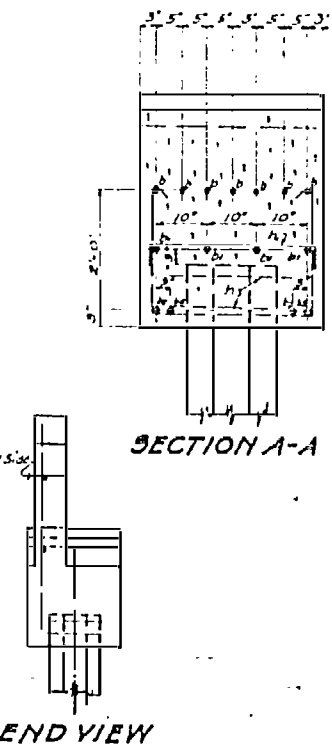
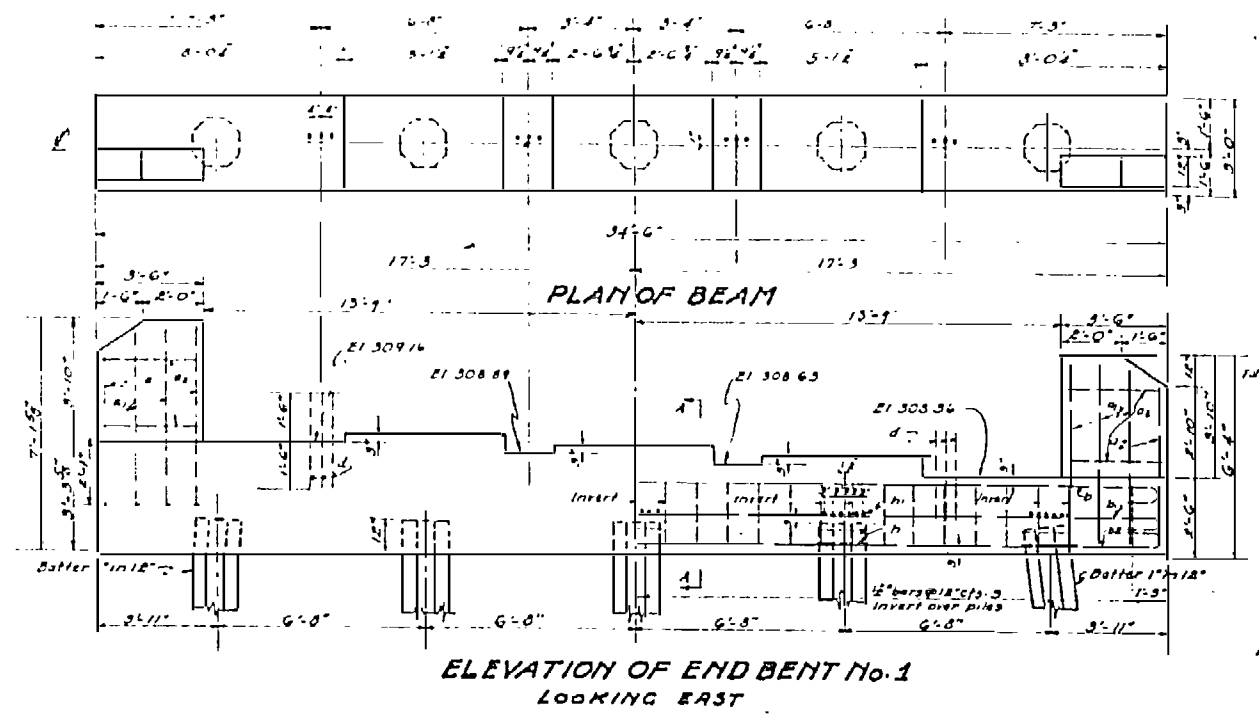
STATE OF NORTH CAROLINA
STATE HIGHWAY AND
PUBLIC WORKS COMMISSION
SPECIAL
BENT DETAILS FOR
OAKS BRIDGE
OVER NEUSE RIVER
MAY 1937

Note: For Design Data and Gen Note see Gen Day. For Details of piles see sheet No. 35. Volume of Conc displaced by piles has been deducted. Piles shall be driven to a Min bearing capacity of 40 tons. The portion of the pile extending into the cap shall be thoroughly roughened, cleaned of loose material and wetted previous to pouring concrete per specifications.

DATE	BY	REVISION
May 1937	W. Van...	...
May 1937	W. Van...	...
May 1937	W. Van...	...

PLAN NO.

10	N.C.	ESSE	11
Project A260-B			



Car	No	Size	Length	Remarks	Weight
a	2	1/2"	4'-9"	straight	8
a1	6	1/2"	3'-6"	-	28
a2	4	1/2"	3'-0"	-	10
b	7	3/4"	36'-0"	detailed	315
b1	4	3/4"	36'-0"	-	216
b2	4	1/4"	36'-0"	-	388
c	12	1/4"	3'-0"	straight	96
d	10	1/2"	8'-0"	detailed	68
e	30	1/2"	3'-9"	-	96
f	33	1/2"	7'-5"	-	203
Reinforcing Steel Lbs					1621
Class 4 Concrete (End Bent #1) Cu Yds					12.4
Class 4 Concrete (End Bent #2) Cu Yds					12.4
10" Precast Piles No 3 Lin Ft					100

Notes for design data and general note see general drawing for details of piles see sheet No 35
 Volume of concrete displaced by piles has been deducted
 All piles shall have a bearing capacity of 40 tons each
 The portion of the pile extending into the cut shall be thoroughly roughened, cleaned of loose material and sealed previous to pouring concrete. See specifications

PROJECT NO 2562
 LENOIR COUNTY
 ENDBENTS #1 & #2
 STA 31+00

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 SPECIAL
 ENDBENT DETAILS
 FOR OAKS BRIDGE
 OVER NEUSE RIVER
 JUNE 1937

DESIGNED BY: J. G. ...
 DRAWN BY: ...
 CHECKED BY: ...
 DATE: June '37

APPROVED BY: ...
 DATE: ...

