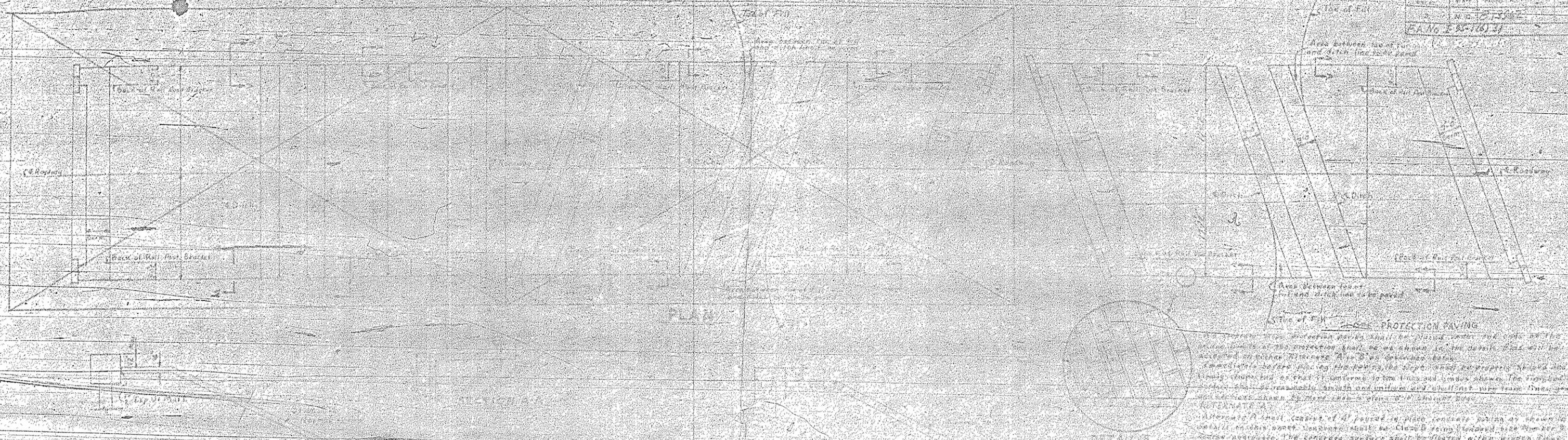


RAIL & CURB SECTION

PROJ
ROELTON CUN
STATION

COUNTY ROAD
STATE HIGH
5' HIGH
2' HIGH
PRES. RESSEL

3/17



SECTION A ALONG E ROADWAY



SECTION ALONG E ROADWAY WHEN DITCH IS NOT WASHED



SECTION SHOWING CATCH BEAM BETWEEN FILL SCOPE AND CUT SLOPE

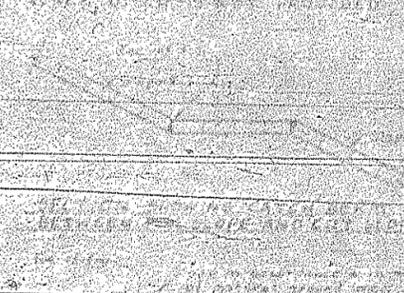


DETAILS FOR ALTERNATE A

SECTION SHOWING SLOPE WHEN TOP OF FILL IS ON E DITCH LINE



SECTION ALONG E ROADWAY



SECTION SHOWING SLOPE WHEN TOP OF FILL IS EACH DITCH LINE

DETAILS FOR ALTERNATE B

PROTECTION PAVING

The proposed concrete protection paving shall be placed under and over the existing surface of the protection paving on the roadway. The details shall be as shown on the drawings. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner.

The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner.

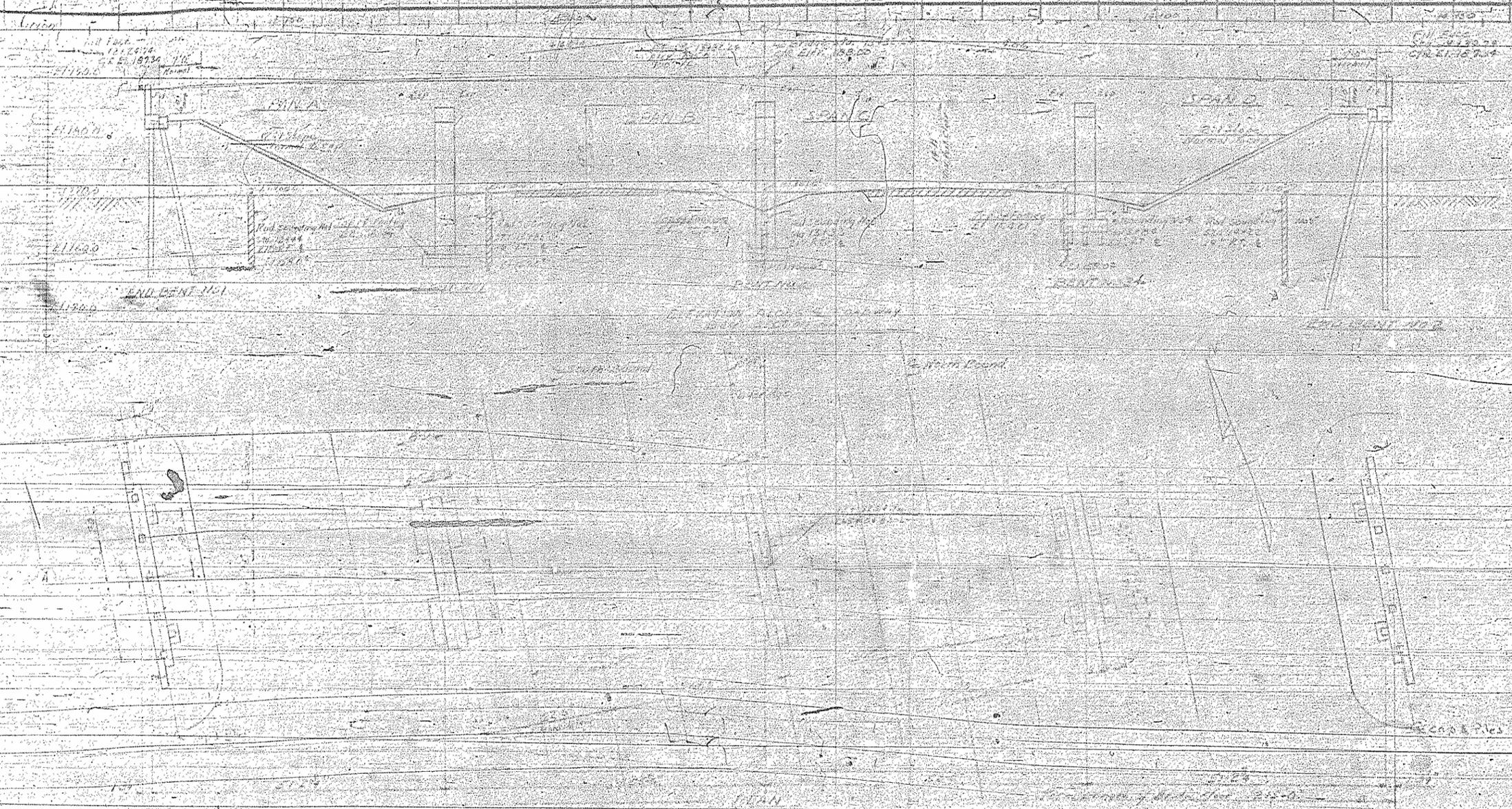
The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner.

The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner. The concrete shall be placed in a uniform and continuous manner.

PROJECT NO. 81396Z
ROBESON CUMBERLAND COUNTY
STATION 13+32.24 TO 26+06.53-L

STANDARD	APPROVED BY	DATE
	[Signature]	11/15/54

STATE OF NORTH CAROLINA	STATE HIGHWAY COMMISSION
STANDARD	SLOPE PROTECTION PAVING
DETAILS	
SUPT. [Signature]	DATE 11/15/54
ENGINEER [Signature]	DATE 11/15/54



GENERAL NOTES

- Assumed live load H-15-S4
- For additional design data & general notes see sheet S-N
- Exposed concrete surfaces to be with a class 1 surface finish in accordance with the specifications
- Test piles will not be required. Order lengths shall be based on piles 27' long for End Bent No. 1 and 33' long for End Bent No. 2. All piles shall be driven to a minimum bearing capacity of 45 tons each. All piles shall be driven through shell may fill.
- Computed foundation pressures for all interior bents 60 tons per sq ft.
- Traffic on county road will be detoured during construction.
- Before driving end bent piles, the contractor will be required to excavate at least to elevation 198.0 for End Bent No. 1 and elevation 192.0 for End Bent No. 2. This excavation will not be measured or paid for. The entire cost is to be included in the unit price bid for 12" prestressed concrete piles.
- Existing pavement to be removed and replaced to be verified to minimum depth of 2'-0". Within the area of the End Bent piles, by the retaining contractor.
- See S-21. Station power pole R25' 2A-4 to station 11+53.

PROJECT NO. 813962

ROUTE ON CHAMBERLAIN COUNTY

STATION 11+32.24
11+51.83

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
BALDWIN
GENERAL DRAWING
BRIDGE OVER PROJECT ON
COUNTY ROAD 19 BETWEEN
U.S. 201 AND COUNTY LINE
DEC 1953

TOTAL BILL OF MATERIAL

Item	Quantity	Unit	Price	Total
Reinforcing Steel	1720	lb	0.015	25.80
Concrete	4016	cu yd	15.00	60.24
End Bent No. 1	1	unit	130.00	130.00
End Bent No. 2	1	unit	190.00	190.00
End Bent No. 3	1	unit	190.00	190.00
TOTAL				336.04

POOR FILM
QUALITY

Reel 694
Position - 6
Count - 62

95-46-280

ROBESON

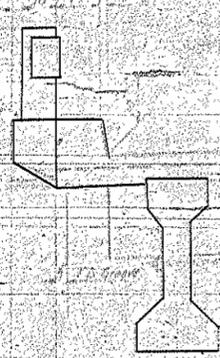
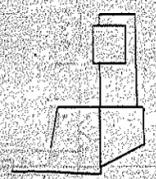
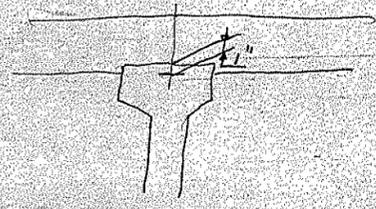
NO.	DATE	REVISION
1	11-2-57	REVISED
PROJECT P. 95-1(6)31		

NOTE
 For Design Data and General Notes see Sheet 9-38
 All bars indicated and rebar matting shown complete for the full length shown.

End posts to be placed on Rail and top of posts to be placed in the center of the road bed to be shown in the center of the road bed. The center of the road bed is shown in the center of the road bed.

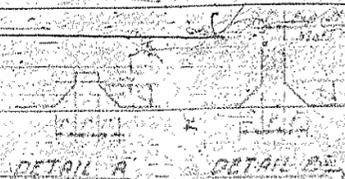
Temporary forms shall be placed between the posts and the posts shall be placed in the center of the road bed to be shown in the center of the road bed. The center of the road bed is shown in the center of the road bed.

7" slab?



SECTION A-A SECTION B-B SECTION C-C

HALF END ELEVATION



NO.	DATE	REVISION
1	11-2-57	REVISED

SINGLE POST INTERMEDIATE DOUBLE POST DOUBLE POST END POSTS

RAIL & CURB SECTION

PROJECT NO. 073567
 ROBERTSON CARROLL COUNTY
 STATION: 263+34.85

COUNTY ROAD VS STATE PROJECT
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

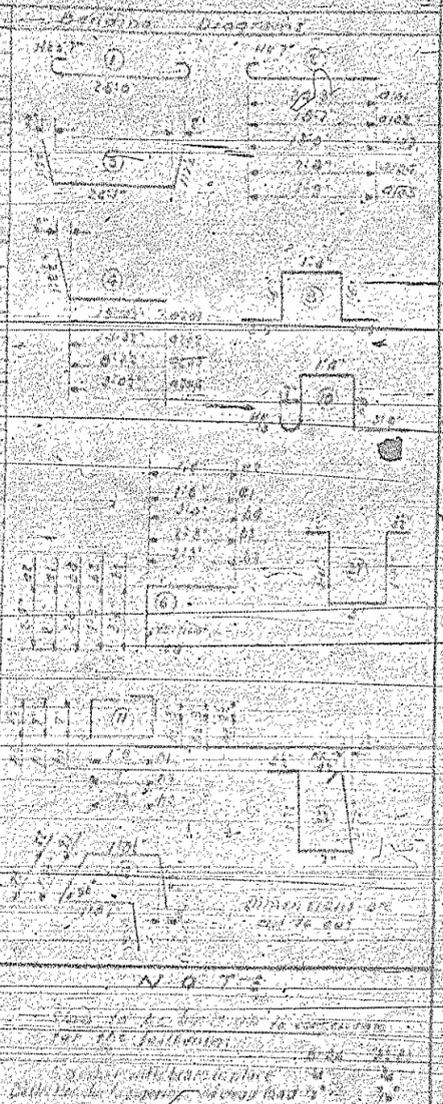
SUPERSTRUCTURE
 TYPICAL SECTIONS
 24' ROADWAY TO CURB
 PRESTRESSED CONCRETE BEAMS

SEPT. 1957

REINFORCING STEEL BAR SCHEDULE

SPAN A-B-C-D

NO.	SIZE	SPACING	LENGTH	WEIGHT
1	1/2"	12"	27'-0"	110.81
2	3/8"	12"	24'-0"	20.7
3	1/2"	12"	13'-0"	22.7
4	1/2"	12"	7'-11"	13.2
5	1/2"	12"	2'-4"	3.3
6	1/2"	12"	20'-0"	109.37
7	1/2"	12"	21'-0"	3.52
8	1/2"	12"	15'-0"	2.58
9	1/2"	12"	9'-0"	1.64
10	1/2"	12"	4'-0"	.71
11	1/2"	12"	18'-0"	31.64
12	1/2"	12"	18'-0"	31.64
13	1/2"	12"	2'-0"	3.3
14	1/2"	12"	2'-0"	3.3
15	1/2"	12"	18'-0"	31.64
16	1/2"	12"	18'-0"	31.64
17	1/2"	12"	2'-0"	3.3
18	1/2"	12"	2'-0"	3.3
19	1/2"	12"	18'-0"	31.64
20	1/2"	12"	18'-0"	31.64
21	1/2"	12"	2'-0"	3.3
22	1/2"	12"	2'-0"	3.3
23	1/2"	12"	18'-0"	31.64
24	1/2"	12"	18'-0"	31.64
25	1/2"	12"	2'-0"	3.3
26	1/2"	12"	2'-0"	3.3
27	1/2"	12"	18'-0"	31.64
28	1/2"	12"	18'-0"	31.64
29	1/2"	12"	2'-0"	3.3
30	1/2"	12"	2'-0"	3.3
31	1/2"	12"	18'-0"	31.64
32	1/2"	12"	18'-0"	31.64
33	1/2"	12"	2'-0"	3.3
34	1/2"	12"	2'-0"	3.3
35	1/2"	12"	18'-0"	31.64
36	1/2"	12"	18'-0"	31.64
37	1/2"	12"	2'-0"	3.3
38	1/2"	12"	2'-0"	3.3
39	1/2"	12"	18'-0"	31.64
40	1/2"	12"	18'-0"	31.64
41	1/2"	12"	2'-0"	3.3
42	1/2"	12"	2'-0"	3.3
43	1/2"	12"	18'-0"	31.64
44	1/2"	12"	18'-0"	31.64
45	1/2"	12"	2'-0"	3.3
46	1/2"	12"	2'-0"	3.3
47	1/2"	12"	18'-0"	31.64
48	1/2"	12"	18'-0"	31.64
49	1/2"	12"	2'-0"	3.3
50	1/2"	12"	2'-0"	3.3

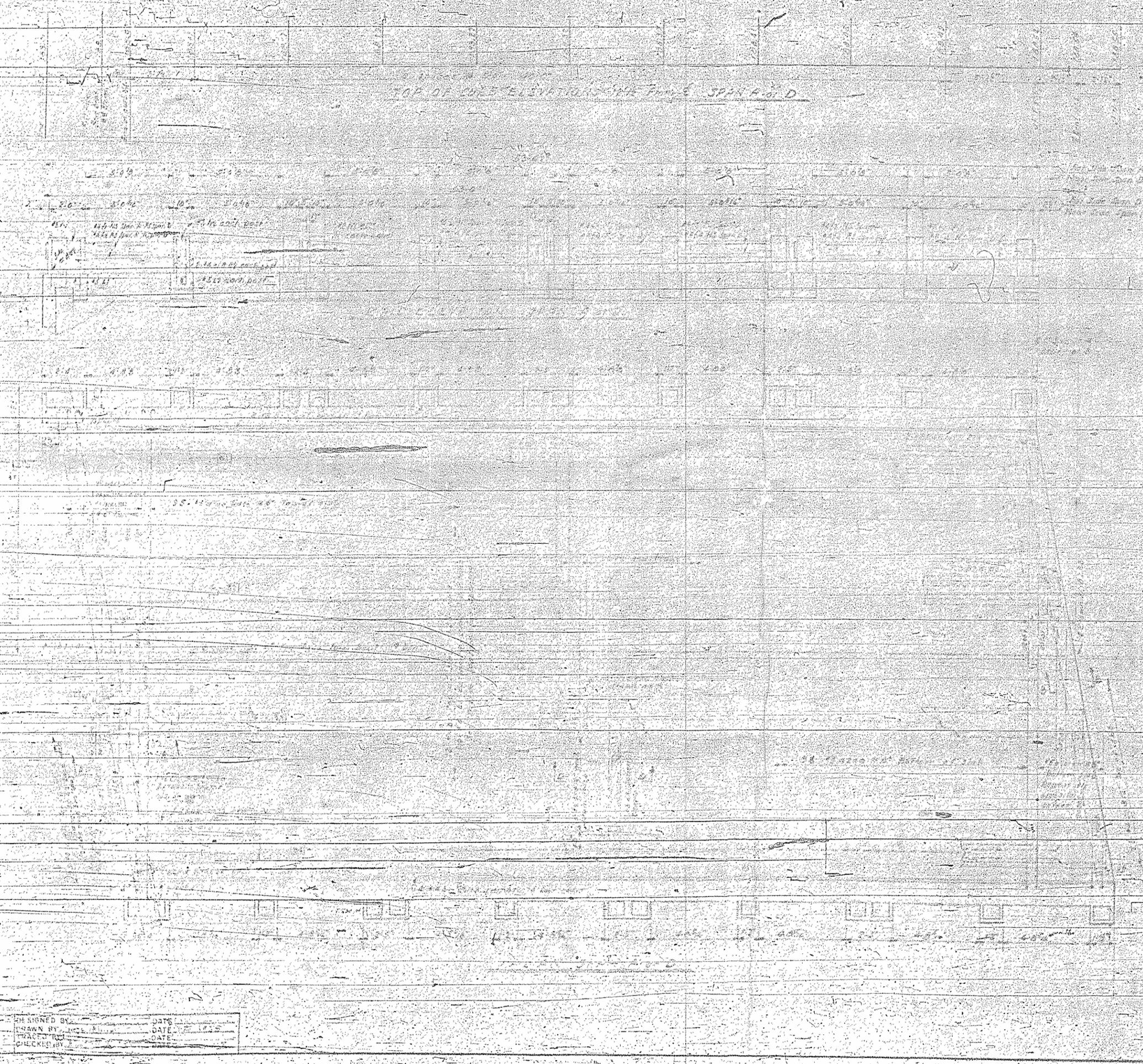


NOTES

1. Bars to be furnished in accordance with the following:

2. Bars to be furnished in accordance with the following:

3. Bars to be furnished in accordance with the following:



DESIGNED BY: DATE: 1-25-68
 DRAWN BY: DATE: 1-25-68
 CHECKED BY: DATE: 1-25-68

APPROVED BY: DATE: 1-25-68
 CLASS OF CONTRACT: 1A-0
 CONTRACT NO.: 30266
 COUNTY: FOREMAN COUNTY

PROJECT NO. 41566

FOREMAN COUNTY

STATION: 1+00.00

COUNTY ROAD 100 OVER PROJECT

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH

SUPPLEMENTAL
 CONSTRUCTION PLAN

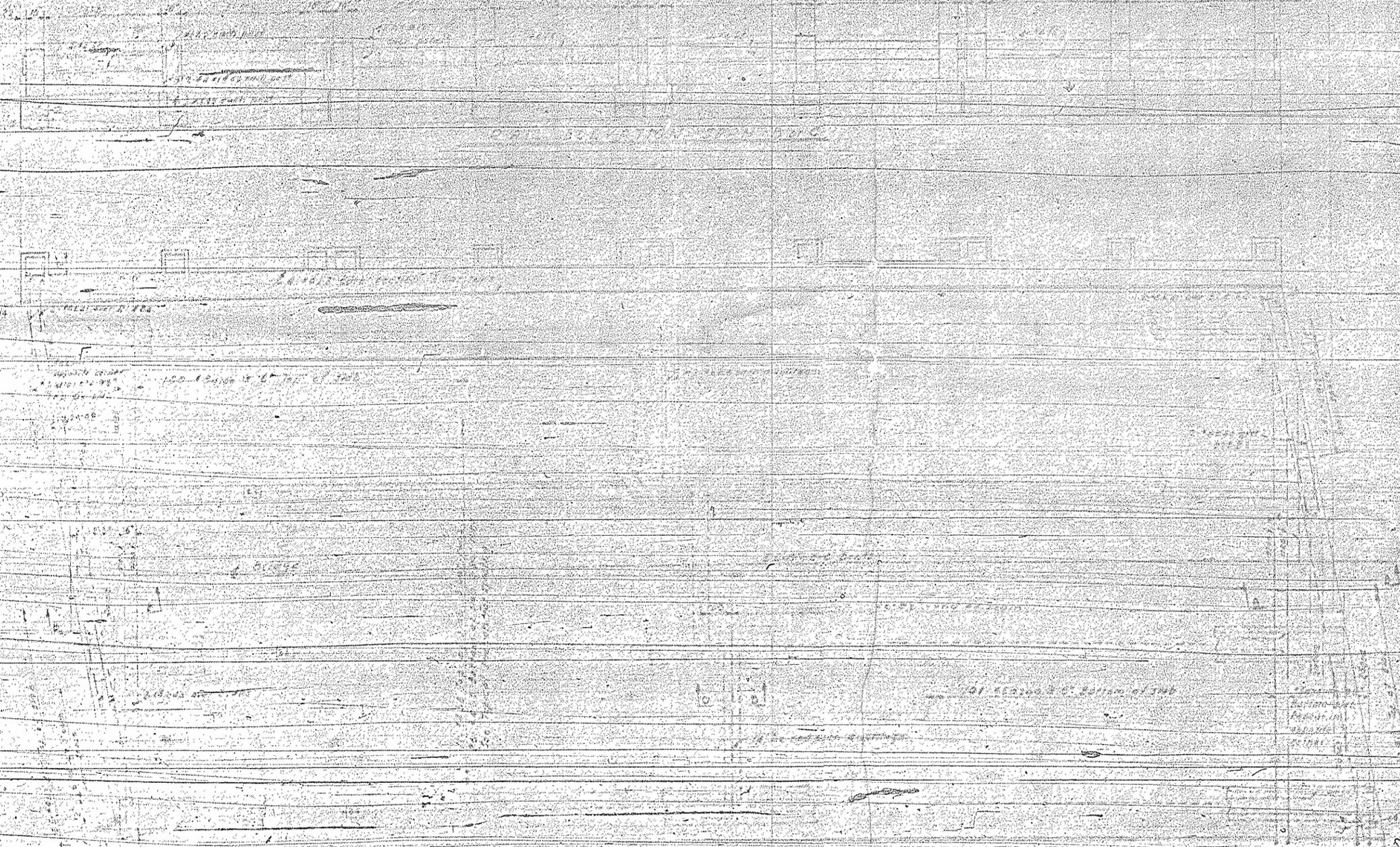
NOV 1968

REVISIONS					
NO.	BY	DATE	DESCRIPTION	BY	DATE
1					
2					

SHEET NO. 2 OF 2

CONCRETE RIGID SPAN B&C

1. 20' x 20' x 20' concrete
 2. 12' x 12' x 12' concrete
 3. 8' x 8' x 8' concrete
 4. 6' x 6' x 6' concrete
 5. 4' x 4' x 4' concrete
 6. 3' x 3' x 3' concrete
 7. 2' x 2' x 2' concrete
 8. 1' x 1' x 1' concrete
 9. 1/2' x 1/2' x 1/2' concrete
 10. 1/4' x 1/4' x 1/4' concrete



PROJECT NO. 87867
 BOBBAW SHERWOOD COUNTY
 STATION 265+24.31
 COUNTY ROAD 46 OVER PROJECT

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH
 SUPERSTRUCTURE
 CONCRETE RIGID SPAN B&C

NOV 1952

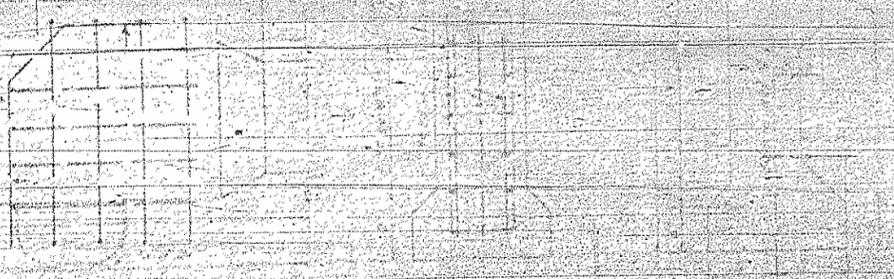
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			1		
2			2		

SHEETS
 1 OF 1

DESIGNED BY _____ DATE _____
 DRAWN BY _____ DATE _____
 CHECKED BY _____ DATE _____

NOTE

All prestressing strands to be a stress relieved grade and each cable to be prestressed at 18500 lbs.
 Cables shall be cut off with 12" end of beam.
 The prestressing beams shall be formed and cast in accordance with the Special Provisions. In the handling of beams they must be maintained in an upright position at all times and must be lifted up their points within the end bearing area of the beam and disregard of this requirement may result in collapse of the member.
 Embedded 1/2" x 1/2" x 1/2" bearing plates, 1/2" x 1/2" x 1/2" necessary. All plates 1/2" x 1/2" x 1/2" and 1/2" x 1/2" x 1/2" assemblies are not carried over joints and are to be supported at the end of prestressed concrete beams.
 No surface finish will be required for prestressed concrete. In any instance where a finish is required, beams shall be carefully cleaned of laitance and other irregularities.
 Where finish is called for on bearing plates, the finished surface shall be coated with a lead-sulfate paint (lead and sulfide). See Specifications.
 Certified mill reports shall be furnished for steel used in assembly.
 The rods not to be shop painted.



END BLOCK DETAIL

BEAM SECTION

STEEL TABLE LAYOUT

REINFORCING STEEL FOR ONE (1) BEAM

Bar No.	Size	Length	Weight	Bending Diagram
1	#5	41' 7"	70.1	
2	#5	41' 7"	70.1	
3	#5	41' 7"	70.1	
4	#5	41' 7"	70.1	

Dimensions are not cut

BEAMS REQUIRED

1	Length	11'
2	Length	11'
3	Length	11'

W/TL ROD

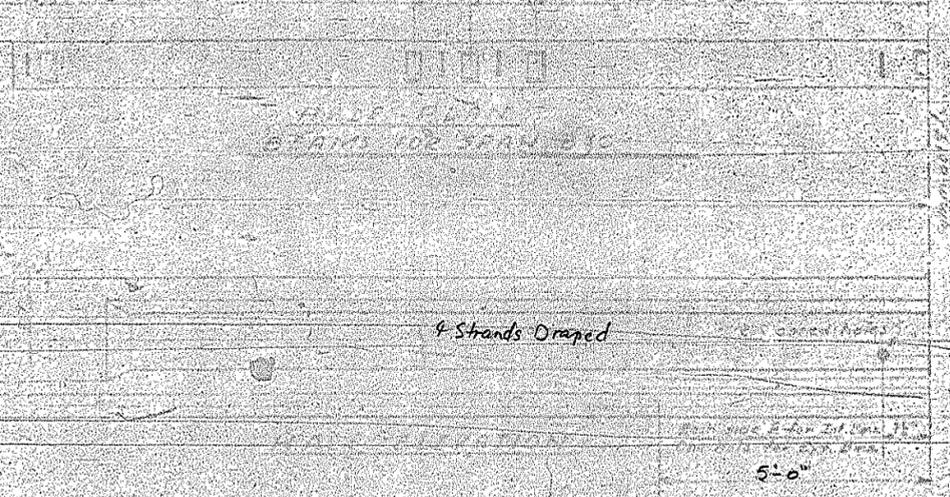
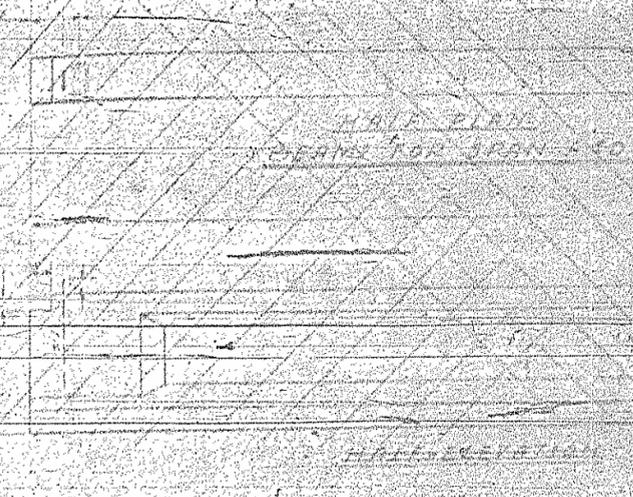
QUANTITIES ONE (1) BEAM

Reinforcing Steel	525.10
5/16" Beam	11'
5/16" Beam	11'
5/16" Beam	11'
5000 psi Concrete	10 cu
5/16" Beam	11'
5/16" Beam	11'
5/16" Beam	11'
1/2" x 1/2" x 1/2" Plates	20 lb
5/16" Beam	11'
5/16" Beam	11'
5/16" Beam	11'

DETAIL SUPER KEY

PROJECT NO. 8/1398
 CORP. CO. CUMBERLAND COUNTY
 STATION: 265+04.836

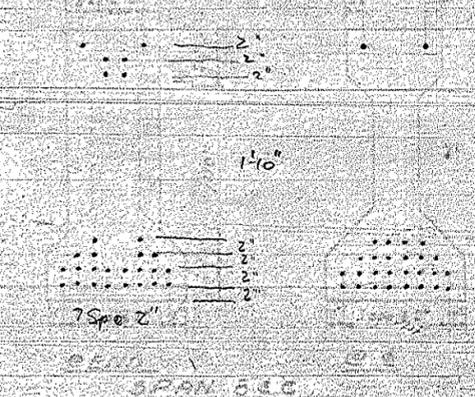
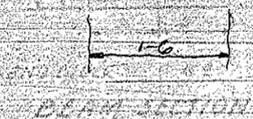
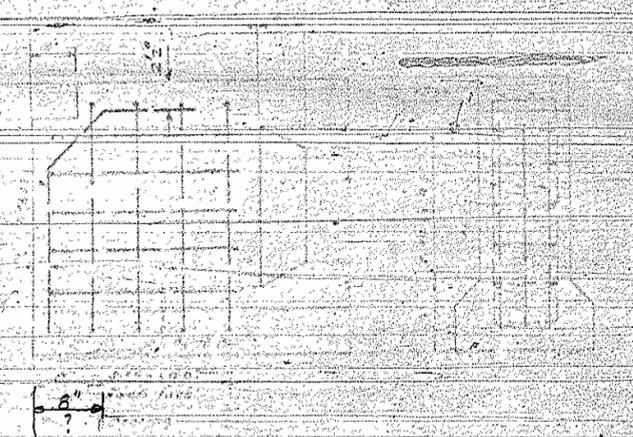
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 STANDARD
 36" PRESTRESSED
 CONCRETE BEAM
 SPAN A-B-D
 APRIL-1958



4 Strands Draped

5'-0"

NOTE
 All prestress strands to be 1/2" dia. Believed Cables and each cable to be prestressed at 18900 lbs.
 Cables shall be cut off with 1/2" dia. end of beam.
 The prestressed beams shall be formed and cast in accordance with the Special Provisions. In the handling of beams they must be maintained in an upright position at all times and must be picked up from points within the web bearing blocks at the beam ends. Disregard of this requirement may lead to collapse of the member.
 Embedment of the lower bearing plates shall be necessary fill plates with anchor bolts and key nuts and tie the anchor bolts and key nuts and use to be attached to the cast of prestressed concrete beams.
 No surface finish is to be required for prestressed concrete beams. However the outside face of exterior beams shall be correctly cleaned of oil, dirt and other excoriations.
 When finishes called for on bearing plates, the finished surface shall be coated with a rust mixture of tubite lead and follow See Specifications. (retired mill reports shall be furnished for steel used in beams).
 Tie rods not to be shop primed.

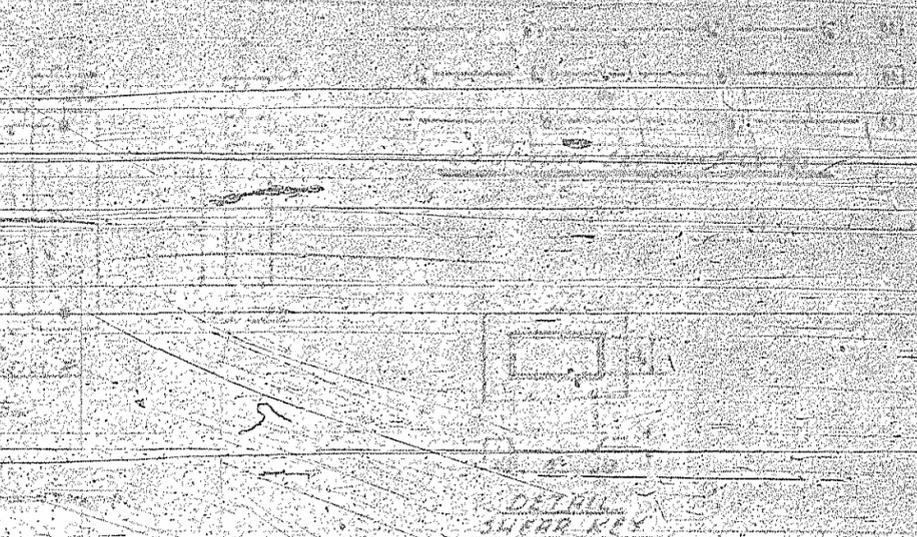
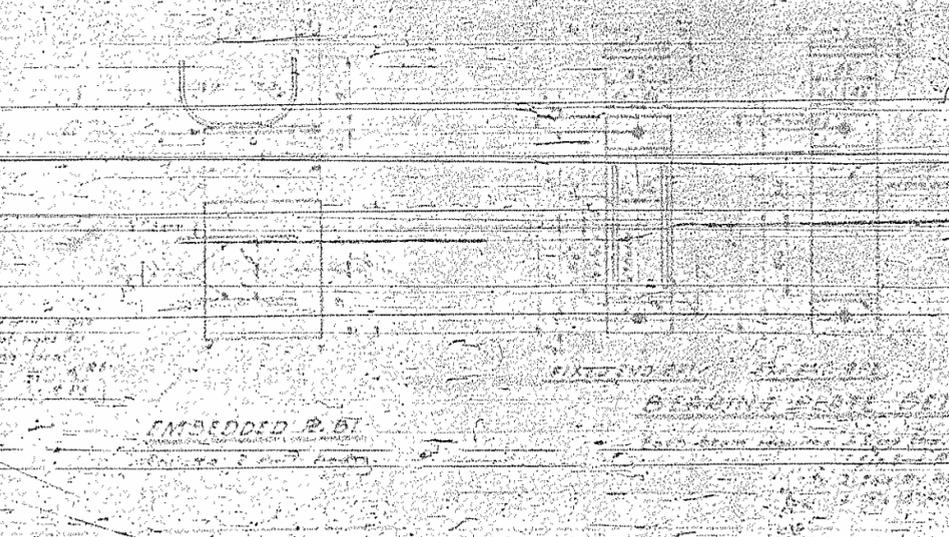


REINFORCING STEEL FOR ONE 10' BEAM

Bar No.	Size	Length	Weight	Bending Diagram
1	3/8"	10'-0"	3.18	
2	3/8"	10'-0"	3.18	
3	3/8"	10'-0"	3.18	
4	3/8"	10'-0"	3.18	
5	3/8"	10'-0"	3.18	
6	3/8"	10'-0"	3.18	
7	3/8"	10'-0"	3.18	
8	3/8"	10'-0"	3.18	
9	3/8"	10'-0"	3.18	
10	3/8"	10'-0"	3.18	
11	3/8"	10'-0"	3.18	
12	3/8"	10'-0"	3.18	
13	3/8"	10'-0"	3.18	
14	3/8"	10'-0"	3.18	
15	3/8"	10'-0"	3.18	
16	3/8"	10'-0"	3.18	
17	3/8"	10'-0"	3.18	
18	3/8"	10'-0"	3.18	
19	3/8"	10'-0"	3.18	
20	3/8"	10'-0"	3.18	
21	3/8"	10'-0"	3.18	
22	3/8"	10'-0"	3.18	
23	3/8"	10'-0"	3.18	
24	3/8"	10'-0"	3.18	
25	3/8"	10'-0"	3.18	
26	3/8"	10'-0"	3.18	
27	3/8"	10'-0"	3.18	
28	3/8"	10'-0"	3.18	
29	3/8"	10'-0"	3.18	
30	3/8"	10'-0"	3.18	
31	3/8"	10'-0"	3.18	
32	3/8"	10'-0"	3.18	
33	3/8"	10'-0"	3.18	
34	3/8"	10'-0"	3.18	
35	3/8"	10'-0"	3.18	
36	3/8"	10'-0"	3.18	
37	3/8"	10'-0"	3.18	
38	3/8"	10'-0"	3.18	
39	3/8"	10'-0"	3.18	
40	3/8"	10'-0"	3.18	
41	3/8"	10'-0"	3.18	
42	3/8"	10'-0"	3.18	
43	3/8"	10'-0"	3.18	
44	3/8"	10'-0"	3.18	
45	3/8"	10'-0"	3.18	
46	3/8"	10'-0"	3.18	
47	3/8"	10'-0"	3.18	
48	3/8"	10'-0"	3.18	
49	3/8"	10'-0"	3.18	
50	3/8"	10'-0"	3.18	

BEAMS REQUIRED

54-B	237.4	11
Length		
Length		
Length		
Length		



QUANTITIES ONE 10' BEAM

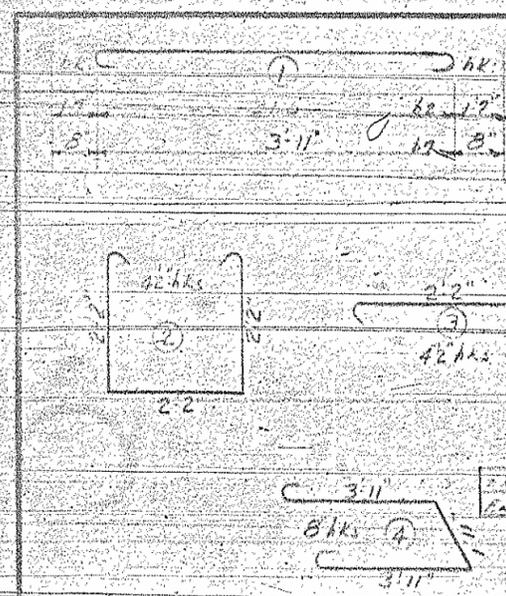
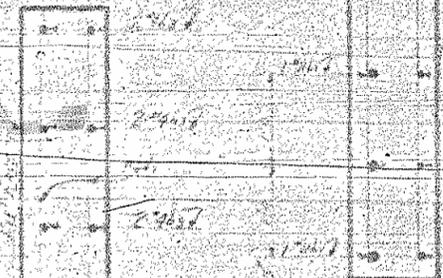
Reinforcing Steel		
54-B Beams	237.4	11
Beams		
Beams		
Beams		
Beams		
500 Gals. Concrete		
54-B Beams		CV
Beams		CV
Beams		CV
Beams		CV
3/8" SR Cables		
28 Beams	28	11
Beams		11
Beams		11
Beams		11

PROJECT NO. 8-12262
 BOBSON CUMBERLAND COUNTY
 STATION 265+00.457

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 STANDARD
 36" PRESTRESSED
 CONCRETE BEAM
 SPAN 510 & C
 APRIL 1958



BILL OF MATERIAL					
FOR ONE END BENT - TWO PILES					
BAR NO.	NO.	SIZE	TYPE	WEIGHT	
61	2	#11	STR.	38.6	409
62	6	#11	1	34.8	1105
63	1	#8	STR.	38.6	103
64	1	#8	STR.	31.6	84
65	8	#4	STR.	16.8	88
66	8	#4	STR.	2.2	12
67	6	#6	1	5.3	47
71	8	#4	STR.	9.5	25
72	4	#4	STR.	5.3	16
73	8	#4	STR.	9.5	24
74	4	#4	STR.	4.10	13
75	24	#4	STR.	6.5	100
76	26	#4	2	7.2	126
77	26	#4	3	2.11	51
78	8	#6	4	11.1	33



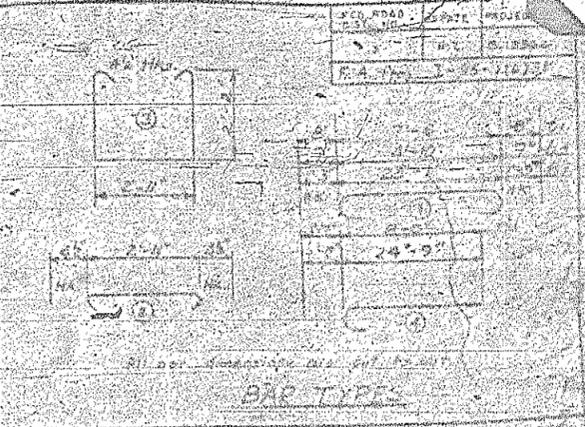
NOTE:
All piles are to be driven to a minimum bearing capacity of 25 tons each
* Concrete displaced by pile head have been deducted.

Rein. Steel	265	25.27
#4 A.C. Conc.	44	10.2
12" Prestressed Conc. piles	18.7	
12" Prestressed Conc. piles L.F.	1.57	
12" Prestressed Conc. piles L.F.	2.21	

PROJECT NO. 813962
ROBEYSON, CUMBERLAND COUNTY
STATION: 2651.275.2.1.1

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUBSTRUCTURE
END BENTS NO. 142

Nov. 1958



BILL OF MATERIALS

NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
1	REINFORCING BARS	100	LB.	0.15	15.00
2	CONCRETE	10	CU YD.	15.00	150.00
3	FORMWORK	100	SQ YD.	1.00	100.00
4	LABOR	100	HRS.	1.00	100.00
5	PAINT	10	GALES	1.00	10.00
6	STEEL	10	TONS	100.00	1000.00
7	BRICK	1000	CU YD.	1.00	1000.00
8	CEMENT	100	TONS	10.00	1000.00
9	AGGREGATE	100	CU YD.	1.00	100.00
10	WATER	100	CU YD.	1.00	100.00
11	REINFORCING BARS	100	LB.	0.15	15.00
12	CONCRETE	10	CU YD.	15.00	150.00
13	FORMWORK	100	SQ YD.	1.00	100.00
14	LABOR	100	HRS.	1.00	100.00
15	PAINT	10	GALES	1.00	10.00
16	STEEL	10	TONS	100.00	1000.00
17	BRICK	1000	CU YD.	1.00	1000.00
18	CEMENT	100	TONS	10.00	1000.00
19	AGGREGATE	100	CU YD.	1.00	100.00
20	WATER	100	CU YD.	1.00	100.00

Part No. 155-03
 Part No. 154-10
 1/4" x 1/4" x 1/4"
 Exterior Grade

NOTE:
 CONCRETE FOUNDATION APPROX. 20' x 20'
 2 1/2' DIA. PILES

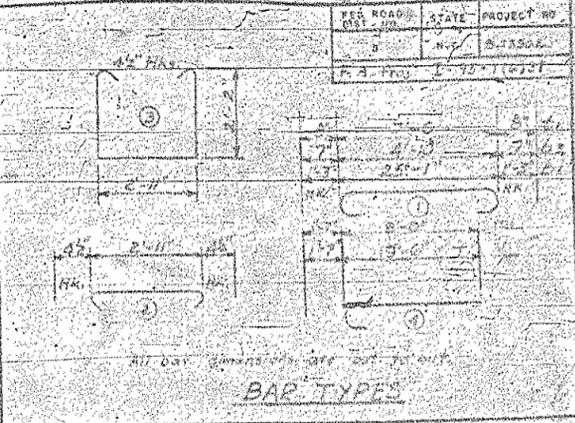
PROJECT NO. 61-1902
 ROBESON-CAMBERLAND COUNTY
 STATION 265+06.38

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH

SUBSTRUCTURE
 BENTS 1 OR 2

NO.	BY	DATE	NO.	BY	DATE

to be revised to remove P.H.D. from sheet 2-44A C.H.H.M.



BILL OF MATERIALS

NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1
2
3
4
5
6
7
8
9
10
11
12
13
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NOTE: Concrete designed by pile heads has been drilled to meet the same bearing and spacing as that of the main structure.

DESIGNED BY: [Signature]

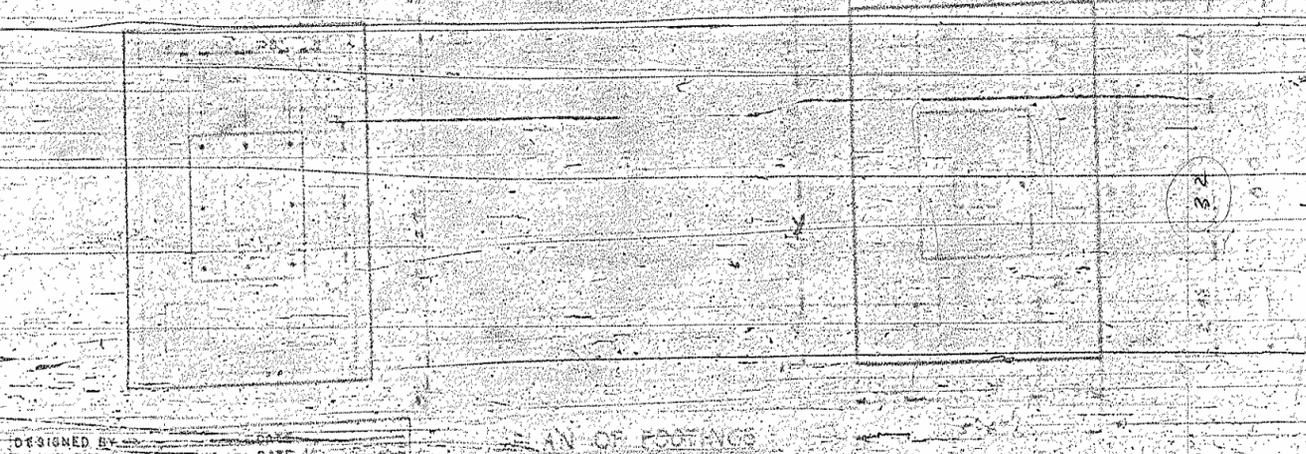
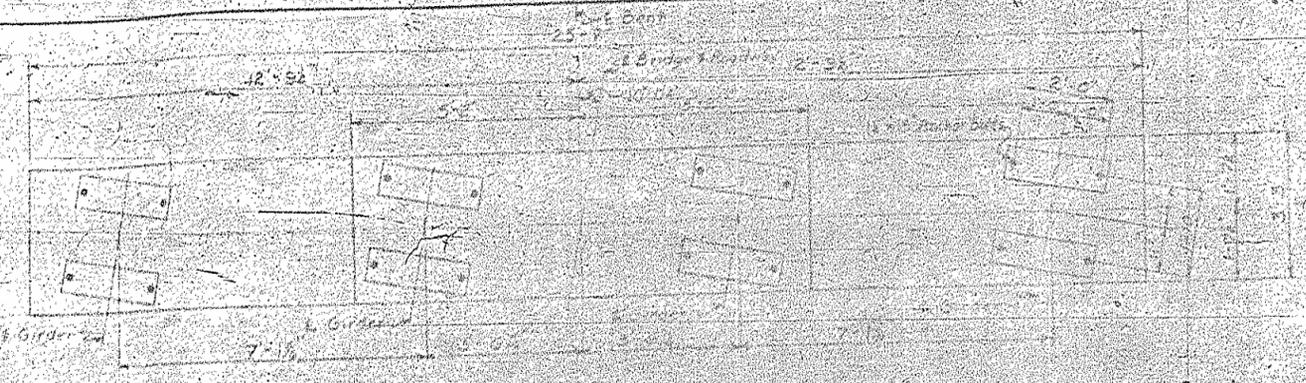
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PROJECT NO. 41596
 ROWSON COMBERLAND COUNTY
 STATION 105+04.51

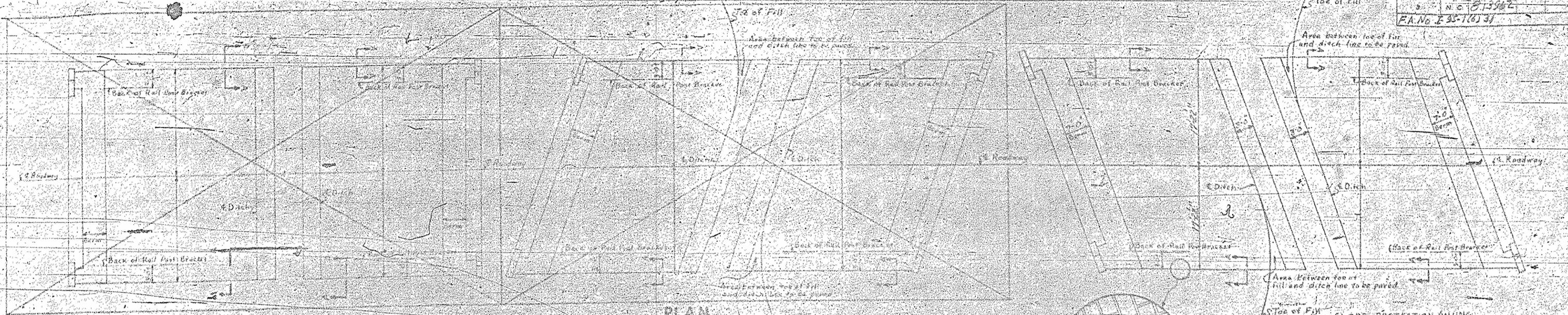
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH

SUBSTRUCTURE
 Bent No. 3

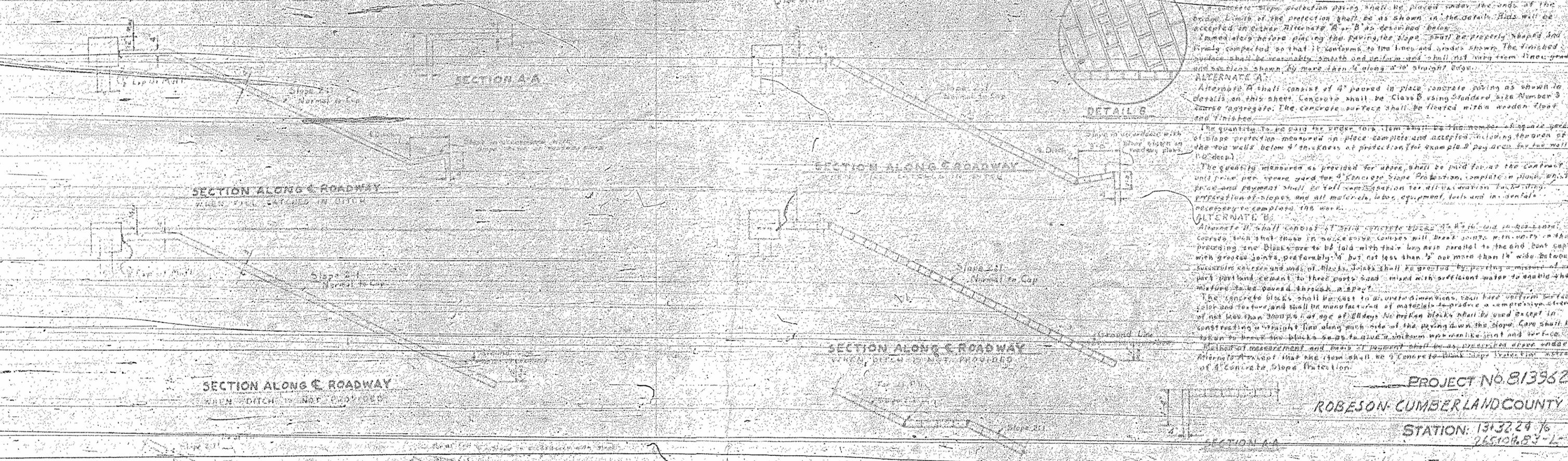
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NO.	BY	NO.	BY	NO.	DATE
1		1		1	5-27-57
2		2		2	
3		3		3	



DESIGNED BY: [Signature] DATE: [Date]
 DRAWN BY: [Signature] DATE: [Date]
 CHECKED BY: [Signature] DATE: [Date]



PLAN



SECTION A-A

SECTION ALONG C ROADWAY WHEN DITCH IS PROVIDED

SECTION ALONG C ROADWAY WHEN DITCH IS NOT PROVIDED

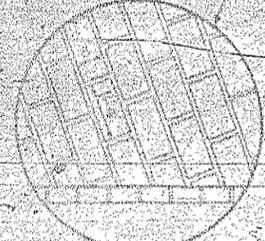
SECTION ALONG C ROADWAY WHEN DITCH IS NOT PROVIDED

SECTION SHOWING SLOPE WHEN TOE OF FILL IS BACK OF DITCH LINE

SECTION SHOWING CATCH BERM BETWEEN FILL SLOPE AND CUT SLOPE

SECTION SHOWING SLOPE WHEN TOE OF FILL IS BACK OF DITCH LINE

SECTION SHOWING SLOPE WHEN TOE OF FILL IS BACK OF DITCH LINE



DETAIL B

SLOPE PROTECTION PAVING

A concrete slope protection paving shall be placed under the ends of the bridge limits of the protection shall be as shown in the detail. It will be accepted in either Alternative A or B as detailed below.

Immediately before placing the paving, the slope shall be properly shaped and firmly compacted so that it conforms to the lines and grades shown. The finished surface shall be reasonably smooth and uniform and shall not vary from true grade and sections shown by more than 1/4" along a 10' straight edge.

ALTERNATE A:
 Alternate A shall consist of 4" poured in place concrete paving as shown in detail on this sheet. Concrete shall be Class B using Standard Size Number 3 coarse aggregate. The concrete surface shall be finished with wooden float and finished.

The quantity to be paid for slope protection shall be the number of square yards of slope protection measured in place complete and accepted including the area of the top walls below 4" thickness of protection (for example, 3' by 3' by 1' deep).

The quantity measured as provided for above shall be paid for at the contract unit price per square yard for 4" concrete slope protection, complete in place, which price and payment shall be full compensation for all excavation, backfilling, preparation of slopes and all materials, labor, equipment, tools and incidentals necessary to complete the work.

ALTERNATE B:
 Alternate B shall consist of 4" concrete paving 12" x 16" laid in 2 courses. Courses shall be laid in 2 courses with 1/2" joints. Joints shall be provided in the paving and shall be laid with their long axis parallel to the end joint cap with joints preferably 4' but not less than 3' nor more than 12' wide between successive courses and ends of blocks. Joints shall be provided by providing a groove 1/2" deep and cement to three parts sand mixed with sufficient water to enable the mixture to be poured through a spout.

The concrete blocks shall be cast to uniform dimensions, true lines, uniform surface joint and to true and shall be manufactured of materials to produce a compressive strength of not less than 3000 psi at age of 28 days. No broken blocks shall be used except in constructing a straight line along each side of the paving down the slope. Care shall be taken to break the blocks so as to give a uniform vertical joint and surface.

Method of measurement and basis of payment shall be as prescribed above under Alternate A except that the unit shall be 4" concrete block slope protection instead of 4" concrete slope protection.

PROJECT NO. 813962
 ROBESON, CUMBERLAND COUNTY
 STATION: 13+32.24 to 26+10.87-12

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

BRIDGE 113324	Concrete Slope Protection	182
	Concrete Block Slope Protection	182
TOTAL		364

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 STANDARD
 SLOPE PROTECTION PAVING
 DETAILS
 SEPTEMBER, 1958