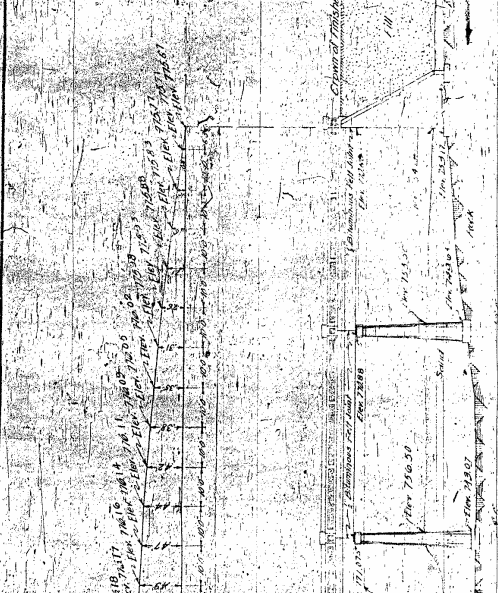


Scale	1" = 10'
Sheet No.	150
Project No.	822
Date	Aug 1922

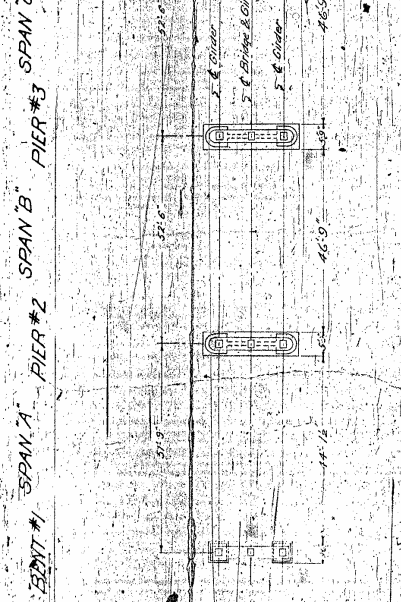


**CAMBER DIAGRAM**

**CAMBER NOTE**  
 Camber diagram shows the allowance for settlement of individual spans which should be provided for in addition to the camber given in the camber diagram. The camber is the elevation above the roadway. The rails, curbs, sidewalks, etc. follow the same line of camber.

**SPAN A PIER #2 SPAN B PIER #3 SPAN C PIER #4 SPAN D PIER #5 SPAN E PIER #6 SPAN F ABUTMENT B**

**ELEVATION**



**TOTAL BILL OF MATERIAL**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
CONCRETE	12,500	CU YD	1.25	15,625.00
STEEL	1,200	TONS	15.00	18,000.00
WOOD	500	CU YD	1.00	500.00
GRAVEL	10,000	CU YD	0.10	1,000.00
CEMENT	1,000	TONS	1.00	1,000.00
IRON	500	TONS	1.00	500.00
BRICK	100,000	1,000'S	0.05	5,000.00
GLASS	100	SQ YD	1.00	100.00
PAINT	100	TONS	1.00	100.00
LABOR	10,000	HOURS	0.10	1,000.00
OVERHEAD				1,000.00
<b>TOTAL</b>				<b>38,725.00</b>

**GENERAL NOTE**

Class A concrete to be used throughout except in handrails. Proportions 1:2:4. Class B concrete to be used in handrails. Proportions 1:1.5:3. All dimensions relative to reinforcement are to centers of bars. No laps of bars shall be made in those shown on the plans. All reinforcement shall be securely held in correct position by means of appropriate steel bar supports. Reinforcing bars shall be lap spliced and bar ties. See plan showing typical details. All materials and workmanship shall conform to the Standard Specifications of the N.C. State Highway Commission.

Notes: Bridge to be constructed on a grade of 1:10. Deck to be with a minimum thickness of 12 inches. Deck to be supported on 12 inch diameter piles. See plan for details of piles. See plan for details of abutment and piers.

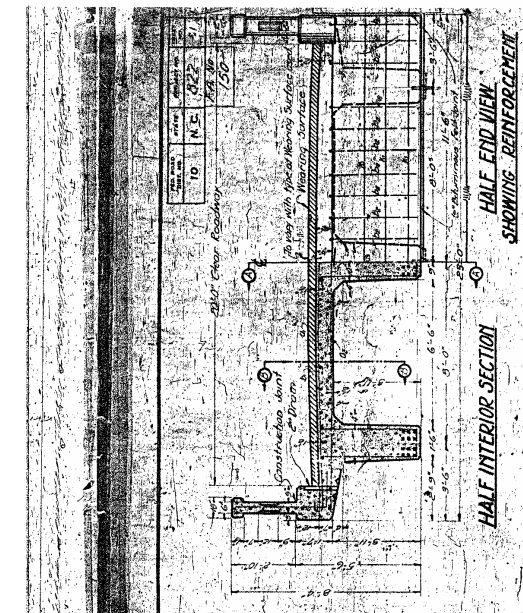
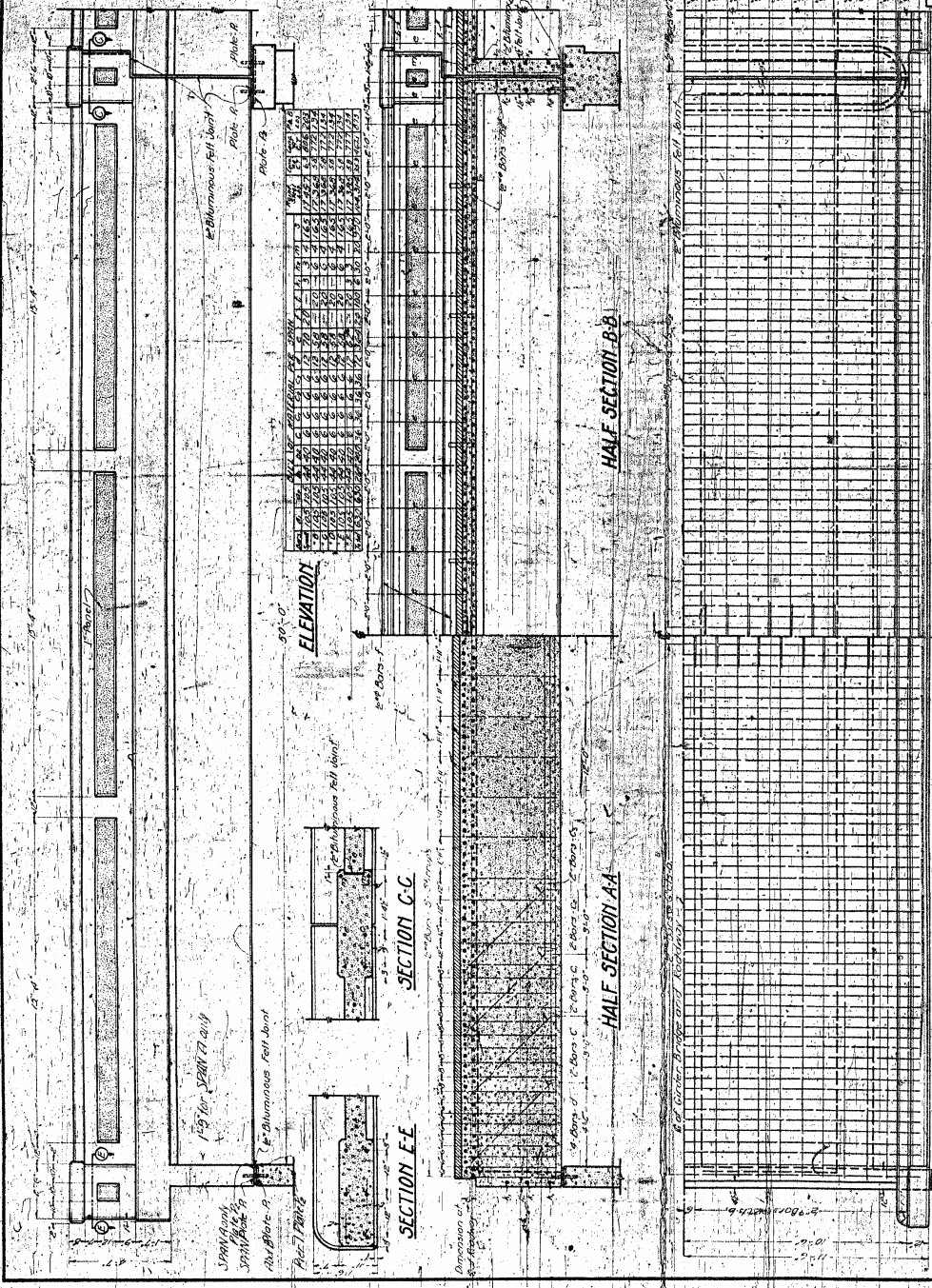
PROJECT NO. 822  
 CLEVELAND COUNTY  
 STA. 211+50

Cleveland  
 # 102

Roll # 44  
 Pos # 30

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 GENERAL DRAWING  
 BUFFALO CREEK BRIDGE  
 6-50 FT. R.G. DECK GIRDER  
 CLEAR ROADWAY 20'-0"  
 AUGUST 1922

W. H. ...  
 ...



**DESIGN DATA**  
 Specifications  
 Reinforcement  
 Formwork  
 Scaffolding  
 Material  
 Method of Construction  
 Mixture Proportion  
 Temperature  
 Time of Setting  
 Modulus of Elasticity  
 Coefficient of Expansion

**GENERAL NOTE**  
 Concrete to be used is of Class No. 2000, but not less than 1500 lbs. per cu. ft. and not more than 4000 lbs. per cu. ft. as determined by tests on cylinders of concrete made in the same manner as that used for the bridge. All reinforcing steel shall be deformed bars. Square headed bars, unless otherwise specified, shall be of the standard shape and size as shown on the drawings. All reinforcing steel shall be held in place by chairs. Bar spacing and details shall be as shown on the drawings. All concrete shall be placed in one continuous operation and shall be finished and cured in the usual manner. All materials and workmanship shall conform to the specifications of the N.C. State Highway Commission.

**DETAIL OF GIRDER**

**DETAIL OF EXPANSION JOINT**

**DETAIL OF BARS C-C**

**DETAIL OF BARS B-B**

**DETAIL OF BARS A-A**

**DETAIL OF BARS D-D**

**DETAIL OF BARS E-E**

**PROJECT NO. 822-1**  
**CLEVELAND COUNTY**  
**6 SPAN**  
**BRIDGE**

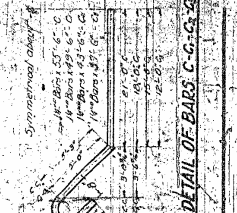
**BILL OF MATERIAL**

Quantity	Description	Weight
1.00	CONCRETE (60' x 60' x 60')	108,000
1.00	REINFORCING STEEL	10,000
1.00	FORMWORK	2,000
1.00	SCAFFOLDING	1,000
1.00	MATERIAL	500
1.00	METHOD OF CONSTRUCTION	1,000
1.00	MIXTURE PROPORTION	1,000
1.00	TEMPERATURE	1,000
1.00	TIME OF SETTING	1,000
1.00	MODULUS OF ELASTICITY	1,000
1.00	COEFFICIENT OF EXPANSION	1,000

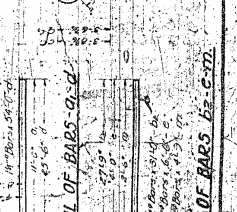
**BILL OF MATERIAL**

Quantity	Description	Weight
1.00	CONCRETE	10,000
1.00	REINFORCING STEEL	1,000
1.00	FORMWORK	500
1.00	SCAFFOLDING	500
1.00	MATERIAL	250
1.00	METHOD OF CONSTRUCTION	250
1.00	MIXTURE PROPORTION	250
1.00	TEMPERATURE	250
1.00	TIME OF SETTING	250
1.00	MODULUS OF ELASTICITY	250
1.00	COEFFICIENT OF EXPANSION	250

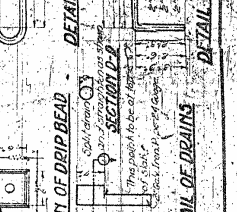
**SHOWING REINFORCEMENT IN BOTTOM OF SLAB**



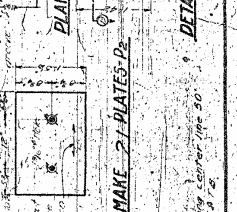
**PLATE OF DRIP BEAD**



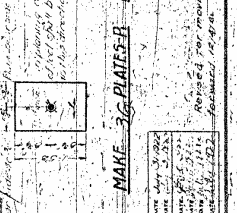
**SHOWING REINFORCEMENT IN TOP OF SLAB**



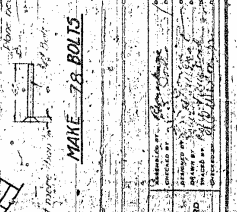
**DETAIL OF BARS B-B**



**DETAIL OF BARS C-C**

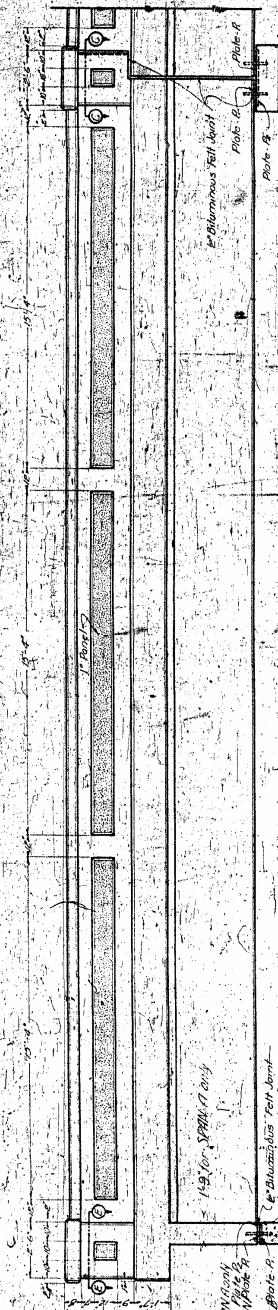


**DETAIL OF BARS D-D**

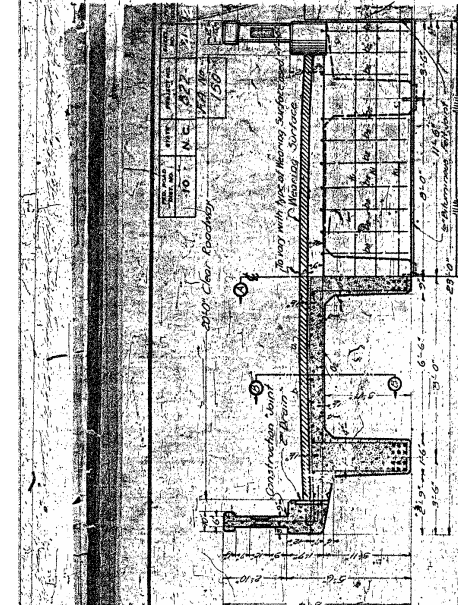


**SPECIAL**

REVISION	DATE	BY	REASON
1	1/1/23	J.H.	...
2	2/1/23	J.H.	...
3	3/1/23	J.H.	...



Span No.	Span Length	Span Width	Span Area
1	100.00	30.00	3000.00
2	100.00	30.00	3000.00
3	100.00	30.00	3000.00
4	100.00	30.00	3000.00
5	100.00	30.00	3000.00



**DESIGN DATA**  
 Specifications  
 50% of Interior  
 Interior  
 Wearing Surface  
 Steel in tension  
 Concrete in compression

**GENERAL NOTE**  
 This is the Highway Commission  
 This is to be approved by the  
 This is to be approved by the  
 This is to be approved by the

**DETAIL OF BORDER**  
**DETAIL OF EXPANSION JOINT**  
**DETAIL OF BARS - 5**  
 Reinforcement details for border, expansion joint, and bars.

BILL OF MATERIAL ONE SPAN	
Span No.	Span Length
1	100.00
2	100.00
3	100.00
4	100.00
5	100.00

**GENERAL NOTE**  
 This is the Highway Commission  
 This is to be approved by the  
 This is to be approved by the  
 This is to be approved by the



Span No.	Span Length	Span Width	Span Area
1	100.00	30.00	3000.00
2	100.00	30.00	3000.00
3	100.00	30.00	3000.00
4	100.00	30.00	3000.00
5	100.00	30.00	3000.00

**DETAIL OF REINFORCEMENT IN BOTTOM OF SLAB**  
**DETAIL OF DRIP BEAD**  
**DETAIL OF BARS - 2**  
 Reinforcement details for bottom of slab, drip bead, and bars - 2.

**DETAIL OF BARS - 3**  
**DETAIL OF BARS - 4**  
 Reinforcement details for bars - 3 and bars - 4.

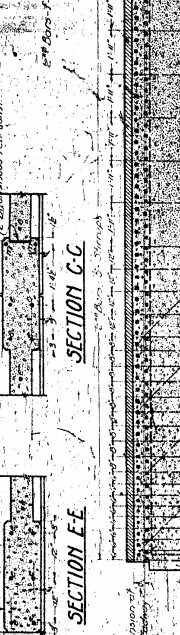
Span No.	Span Length	Span Width	Span Area
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2	100.00	30.00	3000.00
3	100.00	30.00	3000.00
4	100.00	30.00	3000.00
5	100.00	30.00	3000.00

**DETAIL OF BARS - 5**  
 Reinforcement details for bars - 5.

**REINFORCEMENT**  
 Reinforcement details for the structure.

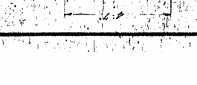


**MAKE 2 PLATES - B**  
**MAKE 2 PLATES - C**  
 Make 2 plates - B and C.

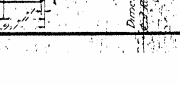


**DETAIL OF BARS - 6**  
 Reinforcement details for bars - 6.

**REINFORCEMENT**  
 Reinforcement details for the structure.



**MAKE 2 PLATES - B**  
**MAKE 2 PLATES - C**  
 Make 2 plates - B and C.



**DETAIL OF BARS - 7**  
 Reinforcement details for bars - 7.

**REINFORCEMENT**  
 Reinforcement details for the structure.



**MAKE 2 PLATES - B**  
**MAKE 2 PLATES - C**  
 Make 2 plates - B and C.



**DETAIL OF BARS - 8**  
 Reinforcement details for bars - 8.

**REINFORCEMENT**  
 Reinforcement details for the structure.



**MAKE 2 PLATES - B**  
**MAKE 2 PLATES - C**  
 Make 2 plates - B and C.



**DETAIL OF BARS - 9**  
 Reinforcement details for bars - 9.

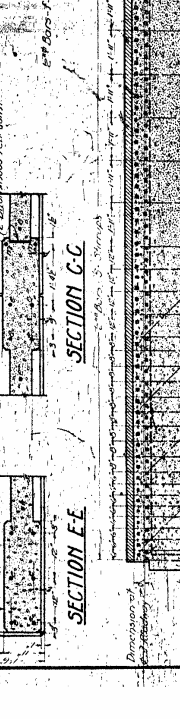
**PROJECT NO. 822**  
**CLAY AND COUNTY**  
**6 SPANS**

**STATE HIGHWAY COMMISSION**  
**STANDARD DETAILS**  
**50'-0" SPANS**  
**JULY 1, 1933**

Span No.	Span Length	Span Width	Span Area
1	100.00	30.00	3000.00
2	100.00	30.00	3000.00
3	100.00	30.00	3000.00
4	100.00	30.00	3000.00
5	100.00	30.00	3000.00



**MAKE 2 PLATES - B**  
**MAKE 2 PLATES - C**  
 Make 2 plates - B and C.



**DETAIL OF BARS - 10**  
 Reinforcement details for bars - 10.

**REINFORCEMENT**  
 Reinforcement details for the structure.



**MAKE 2 PLATES - B**  
**MAKE 2 PLATES - C**  
 Make 2 plates - B and C.



**DETAIL OF BARS - 11**  
 Reinforcement details for bars - 11.

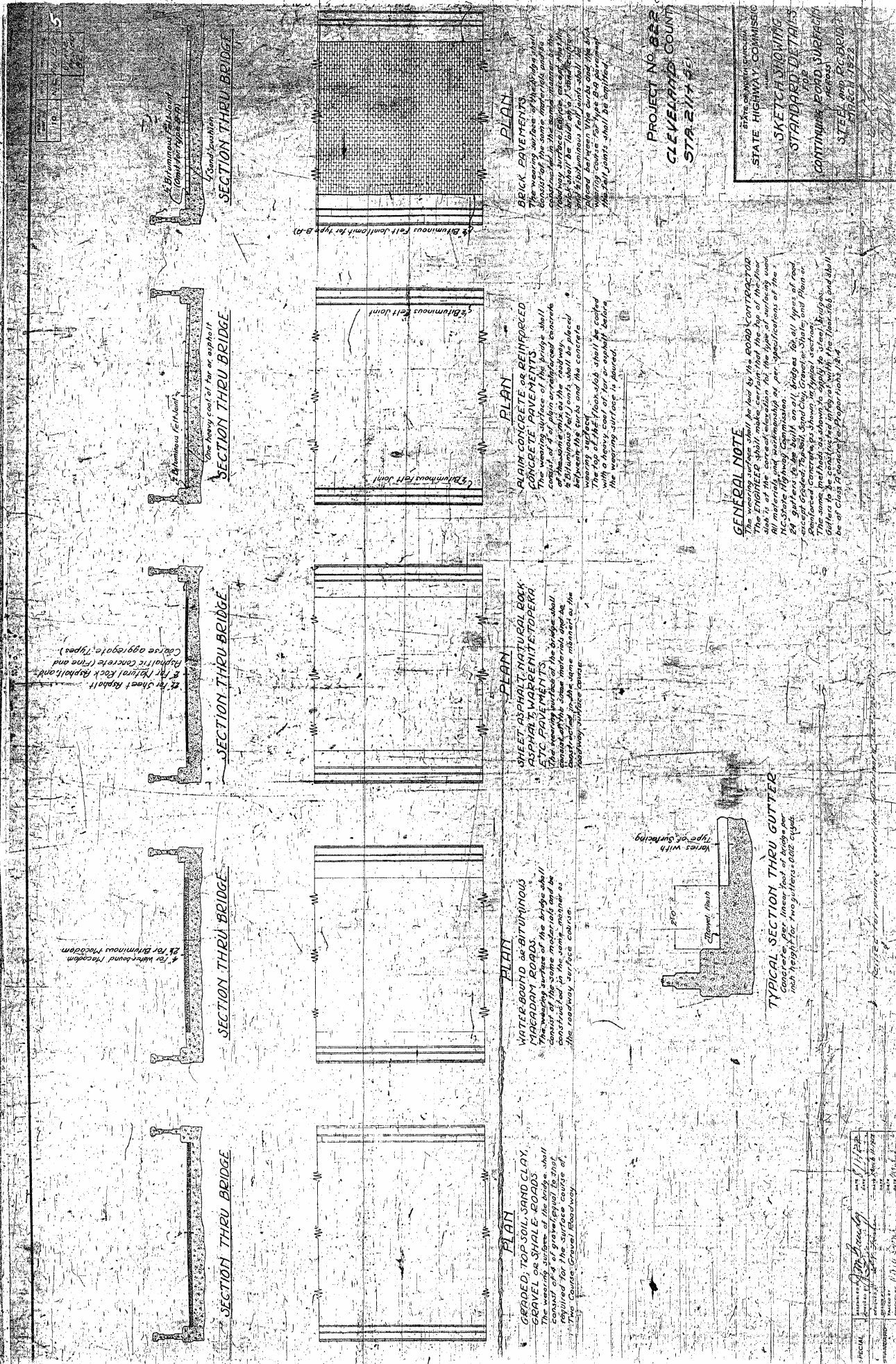
**REINFORCEMENT**  
 Reinforcement details for the structure.



**MAKE 2 PLATES - B**  
**MAKE 2 PLATES - C**  
 Make 2 plates - B and C.



**DETAIL OF BARS - 12**  
 Reinforcement details for bars - 12.



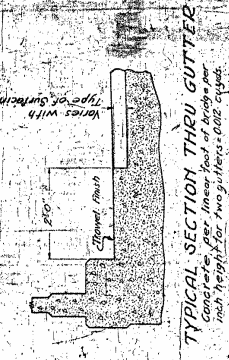
**PLAN**  
**GRADED, TOP SOIL, SAND CLAY, GRAVEL or SHALE ROADS**  
 The wearing surface of the bridge shall consist of the same materials and be constructed in the same manner as required for the surface course of Two Course Gravel Roadway.

**PLAN**  
**WATER BOUND or BITUMINOUS MACADAM ROADS**  
 The wearing surface of the bridge shall consist of the same materials and be constructed in the same manner as required for the surface course of this roadway surface course.

**PLAN**  
**SHEET ASPHALT, NATURAL BARK ASPHALT, WOODCHIPS, TOPSOIL, 5% GRAVEL**  
 The wearing surface of the bridge shall consist of the same materials and be constructed in the same manner as the roadway surface course.

**PLAN**  
**PLAIN CONCRETE or REINFORCED CONCRETE PAVEMENT**  
 The wearing surface shall consist of 4" of plain or reinforced concrete at the same width as the roadway. Bituminous Fall Joints shall be placed between the spans and the concrete. The top of the face slab shall be coated with a heavy coat of tar or asphalt before the wearing surface is poured.

**PLAN**  
**BRICK PAVEMENTS**  
 The wearing surface of the bridge shall be constructed in the same manner as the roadway surface. Bituminous Fall Joints shall be laid on a 1" sand bedding. The fall joints shall be omitted.

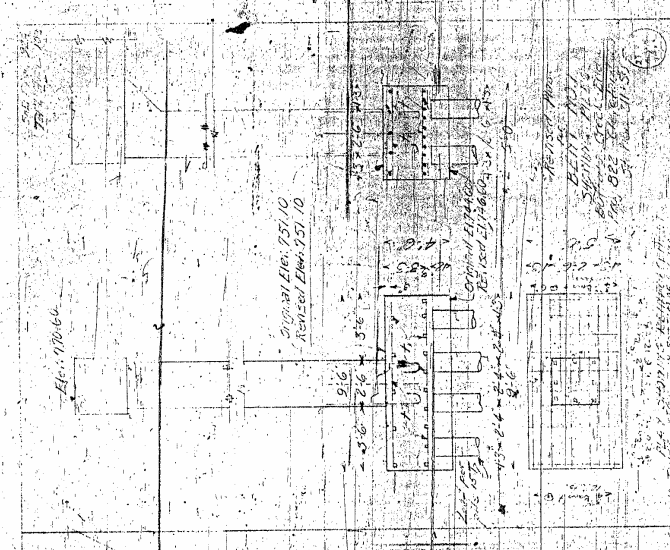


**GENERAL NOTE**  
 The wearing surface shall be laid by the ROAD CONTRACTOR. The Engineer shall make certain that the top of the floor slab is at the same elevation as the top of the surface course. All work shall conform to the specifications of the N.C. State Highway Commission. All bridges for all types of road, except Gravel, Topsoil, Sand Clay, Gravel or Shale, shall have a Reinforced concrete top slab, in typical sections. Gutters to be constructed in the same manner as shown in the plan and shall be of Class B concrete. Proper holes in the

PROJECT NO. 522  
 CLEVELAND COUNTY  
 STATE 2174

STATE HIGHWAY COMMISSION  
 SKETCH DRAWING  
 STANDARD DETAILS  
 CONTINUING ROAD SURFACE  
 STEEL AND CONCRETE  
 FEBRUARY 1922

SPECIAL	DESIGNED BY	DATE
APPROVED BY	CHECKED BY	DATE
REVISIONS	REVISIONS	DATE



NO. OF SHEETS	150
SHEET NO.	10
DATE	8/17/22
BY	B.T.

**DESIGN DATA**  
 N.C. State Highway Commission  
 16,000 lbs per sq ft  
 650 lbs per sq ft  
 70 lbs per sq ft  
 30 lbs per sq ft  
 1" = 0.285 sq ft  
 1/4" = 0.009 sq ft  
 1/2" = 0.022 sq ft  
 3/4" = 0.033 sq ft  
 1" = 0.044 sq ft

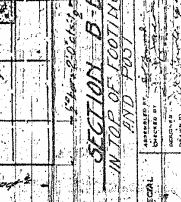
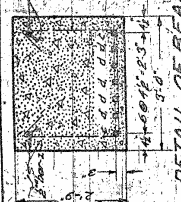
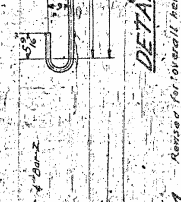
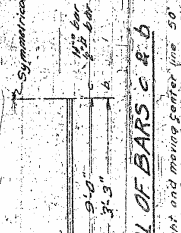
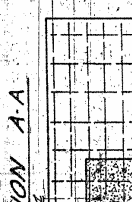
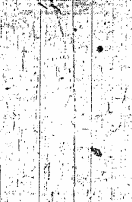
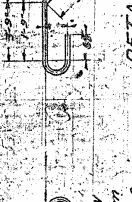
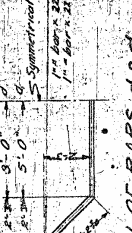
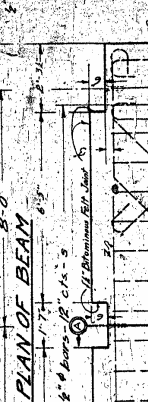
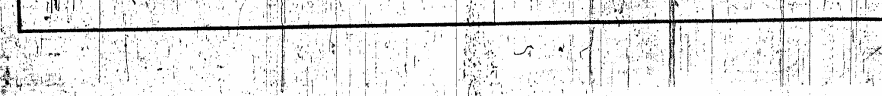
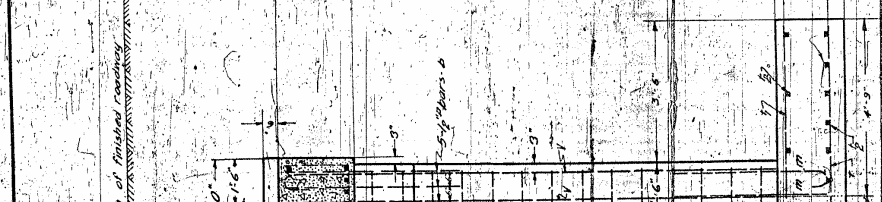
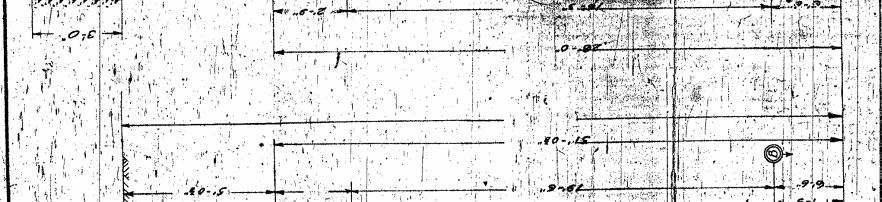
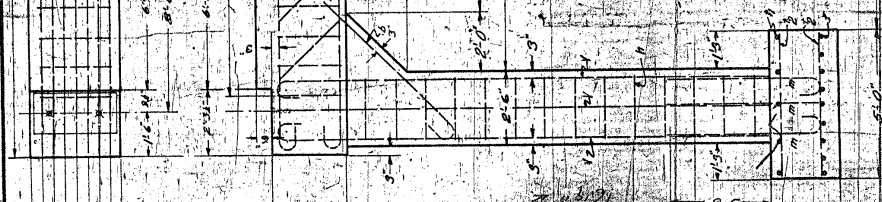
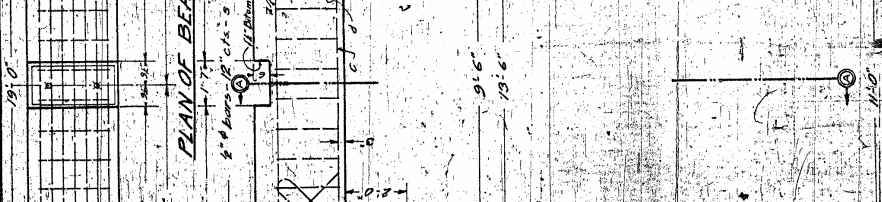
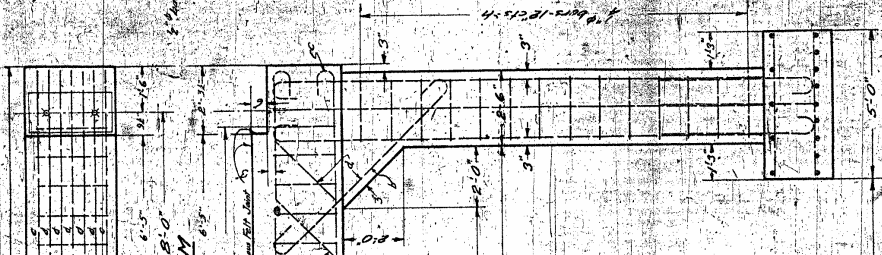
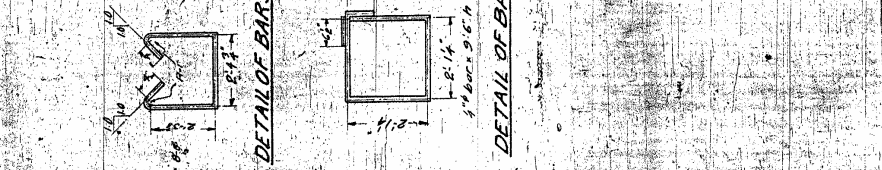
**GENERAL NOTE**  
 Class A concrete to be used throughout. Reinforcing bars 12 # 4  
 All reinforcing steel shall be selected bar. Spacing of  
 bars are not to be considered as determined bars.  
 All dimensions refer to reinforcement unless noted.  
 No splices of bars other than those shown on plans  
 will be permitted.  
 All reinforcing steel to be securely held in concrete.  
 All lap splices and lap connections are to be made in  
 following manner.

All exposed surfaces to be expander  
 All materials shall conform to the following  
 specifications as per the following  
 specifications as per the following

PROJECT NO. 1822  
 CLEVELAND COUNTY  
 STATION 2+15.6

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 STANDARD FOR  
 R.C. BEAM GIRDER BRIDGE  
 August 1922

Bar No.	Bar Size	Length	Weight
1	1/2"	3'-0"	7.7
2	1/2"	3'-0"	7.7
3	1/2"	3'-0"	7.7
4	1/2"	3'-0"	7.7
5	1/2"	3'-0"	7.7
6	1/2"	3'-0"	7.7
7	1/2"	3'-0"	7.7
8	1/2"	3'-0"	7.7
9	1/2"	3'-0"	7.7
10	1/2"	3'-0"	7.7
11	1/2"	3'-0"	7.7
12	1/2"	3'-0"	7.7
13	1/2"	3'-0"	7.7
14	1/2"	3'-0"	7.7
15	1/2"	3'-0"	7.7
16	1/2"	3'-0"	7.7
17	1/2"	3'-0"	7.7
18	1/2"	3'-0"	7.7
19	1/2"	3'-0"	7.7
20	1/2"	3'-0"	7.7
21	1/2"	3'-0"	7.7
22	1/2"	3'-0"	7.7
23	1/2"	3'-0"	7.7
24	1/2"	3'-0"	7.7
25	1/2"	3'-0"	7.7
26	1/2"	3'-0"	7.7
27	1/2"	3'-0"	7.7
28	1/2"	3'-0"	7.7
29	1/2"	3'-0"	7.7
30	1/2"	3'-0"	7.7
31	1/2"	3'-0"	7.7
32	1/2"	3'-0"	7.7
33	1/2"	3'-0"	7.7
34	1/2"	3'-0"	7.7
35	1/2"	3'-0"	7.7
36	1/2"	3'-0"	7.7
37	1/2"	3'-0"	7.7
38	1/2"	3'-0"	7.7
39	1/2"	3'-0"	7.7
40	1/2"	3'-0"	7.7
41	1/2"	3'-0"	7.7
42	1/2"	3'-0"	7.7
43	1/2"	3'-0"	7.7
44	1/2"	3'-0"	7.7
45	1/2"	3'-0"	7.7
46	1/2"	3'-0"	7.7
47	1/2"	3'-0"	7.7
48	1/2"	3'-0"	7.7
49	1/2"	3'-0"	7.7
50	1/2"	3'-0"	7.7

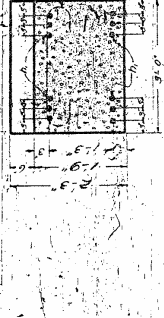


SECTION A-A  
 SECTION B-B SHOWING REINFORCEMENT  
 IN TOP OF FOOTING IN BOTTOM OF FOOTING  
 AND FOOT

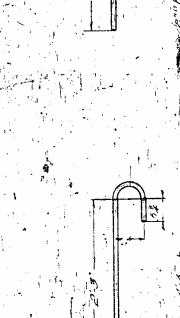
SECTION	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT NO.	1822
STATION	2+15.6
BY	B.T.
DATE	8/17/22

Assume for overall height and moving paper line 50  
 forward of top bar from center of beam.

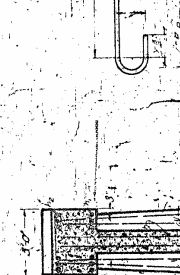
NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20



DETAIL OF CORING



DETAIL OF BARS - 172



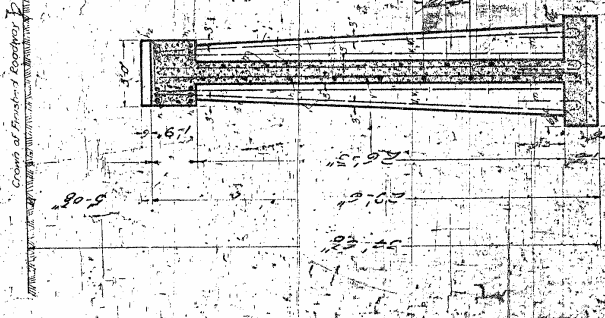
DETAIL OF BARS - 172

**DESIGN DATA**

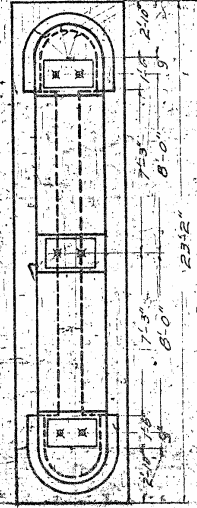
A.C. State Highway Commission  
 Specifications  
 As shown on Plans  
 16,000 lbs. per sq. ft. in tension  
 16,000 lbs. per sq. ft. in compression  
 10 lbs. per cu. ft. in concrete  
 This design is based on the following:  
 4'-0" x 2'-9" x 1'-0" x 1'-0" x 1'-0" x 1'-0"

**GENERAL NOTE**

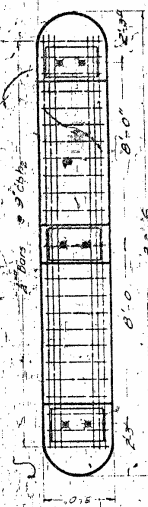
All reinforcement shall be used in accordance with the specifications of the A.C. State Highway Commission. Square bars shall be used unless otherwise specified. All dimensions are given in feet and inches. All dimensions are to be measured from the center of the pier. All dimensions are to be measured from the center of the pier. All dimensions are to be measured from the center of the pier. All dimensions are to be measured from the center of the pier.



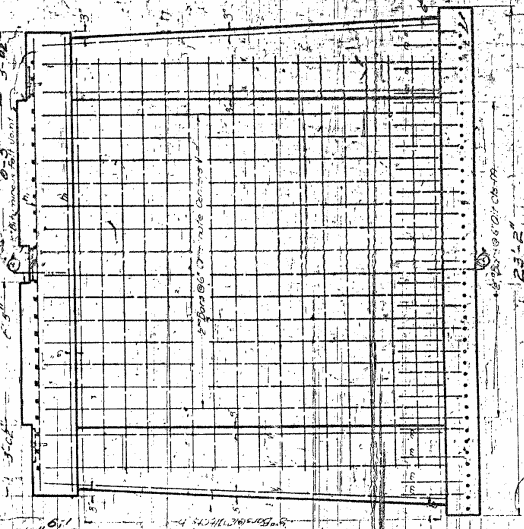
SECTION AA



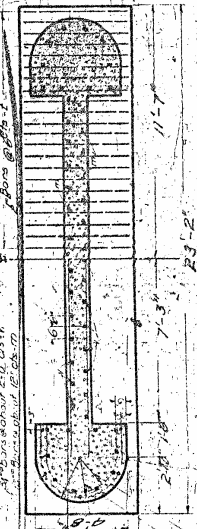
PLAN OF PIER  
SHOWING OUTLINES



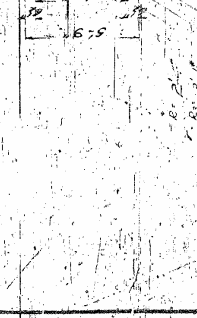
PLAN OF CORING



ELEVATION



PLAN OF PIER  
SHOWING REINFORCEMENT  
IN FOOTING



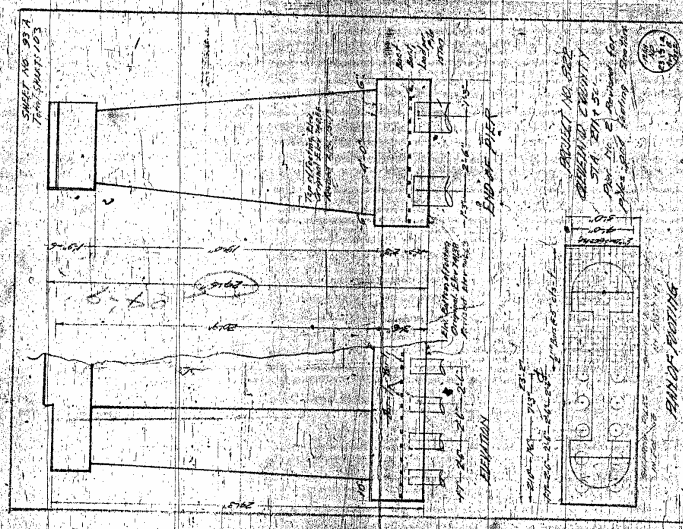
PLAN OF PIER  
SHOWING REINFORCEMENT  
IN POST & WEB

PROJECT NO. 522  
 CLEVELAND COUNTY  
 STA. 211 + 53

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 STANDARD  
 P.C. PIER DETAILS  
 FOR  
 R.C. BECK BRIDGES  
 JULY 1922

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1	1	PIER	100.00	100.00
2	1	FOOTING	50.00	50.00
3	1	POST	20.00	20.00
4	1	WEB	10.00	10.00
5	1	REINFORCEMENT	10.00	10.00
6	1	FORMWORK	10.00	10.00
7	1	CONCRETE	10.00	10.00
8	1	LABOR	10.00	10.00
9	1	TRANSPORTATION	10.00	10.00
10	1	INSURANCE	10.00	10.00
11	1	TOTAL		230.00

APPROVED: [Signature]  
 DATE: [Date]  
 PROJECT NO. 522  
 CLEVELAND COUNTY  
 STA. 211 + 53



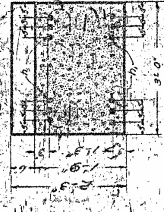
A

4

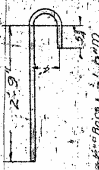
5



10	NC
11	NC
12	NC
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC



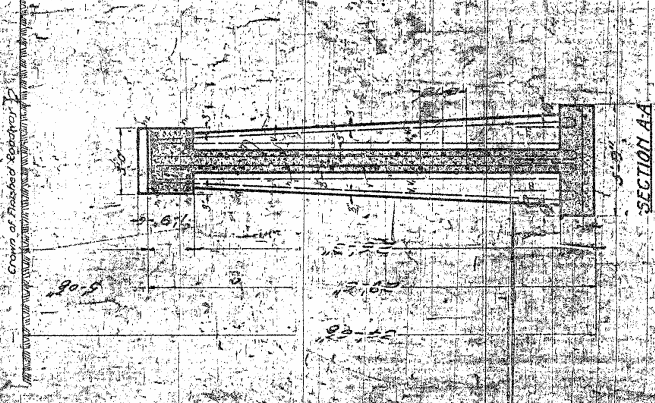
DETAIL OF CORNING



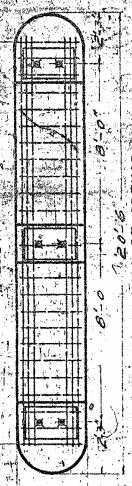
DETAIL OF BARS - 17



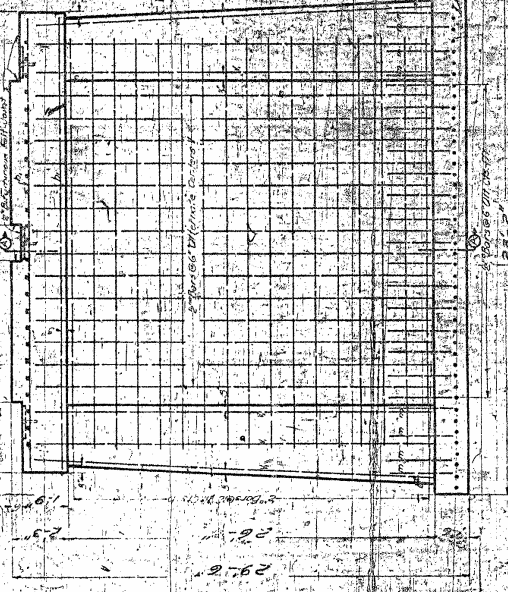
DETAIL OF BARS - 18



SECTION AA



PLAN OF CORNING



ELEVATION



PLAN OF PIER

SHOWING REINFORCEMENT IN FOOTING

SHOWING REINFORCEMENT IN POST & WIER

**DESIGN DATA**

Specifications N.C. State Highway Commission  
 Allowable Stress 18,000 lbs per sq. in.  
 Allowable Concrete Stress 1,400 lbs per sq. in.  
 This design is based on the fact areas of bars per the  
 N.C. State Highway Commission.

**GENERAL NOTE**

Concrete to be used shall be of the proportion  
 1 part cement to 2 parts sand to 3 parts aggregate  
 one part to be combined as specified above.  
 All dimensions shall be in feet and inches unless  
 otherwise specified. All reinforcement shall be  
 spaced metal deck for strength. In beam girders  
 set plans showing typical details.  
 All corners to be reinforced as per the standard  
 detail for 90 degree corners.

PROJECT NO. 211136  
 CLEVELAND COUNTY

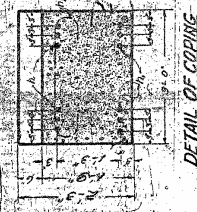
STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 STANDARD  
 R.C. PIER DETAILS  
 FOR  
 R.C. DECK GIRDER  
 JULY 1922

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1	1.00	cu yd	1.00	1.00
2	1.00	sq ft	1.00	1.00
3	1.00	lb	1.00	1.00
4	1.00	sq ft	1.00	1.00
5	1.00	sq ft	1.00	1.00
6	1.00	sq ft	1.00	1.00
7	1.00	sq ft	1.00	1.00
8	1.00	sq ft	1.00	1.00
9	1.00	sq ft	1.00	1.00
10	1.00	sq ft	1.00	1.00
11	1.00	sq ft	1.00	1.00
12	1.00	sq ft	1.00	1.00
13	1.00	sq ft	1.00	1.00
14	1.00	sq ft	1.00	1.00
15	1.00	sq ft	1.00	1.00
16	1.00	sq ft	1.00	1.00
17	1.00	sq ft	1.00	1.00
18	1.00	sq ft	1.00	1.00
19	1.00	sq ft	1.00	1.00
20	1.00	sq ft	1.00	1.00

Bill of Material

Approved by: [Signature]  
 Date: [Date]

10	11	12
13	14	15
16	17	18



DETAIL OF CODING



DETAIL OF BARS - 72



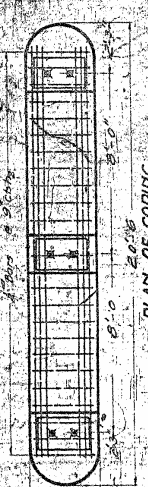
DETAIL OF BARS - 18



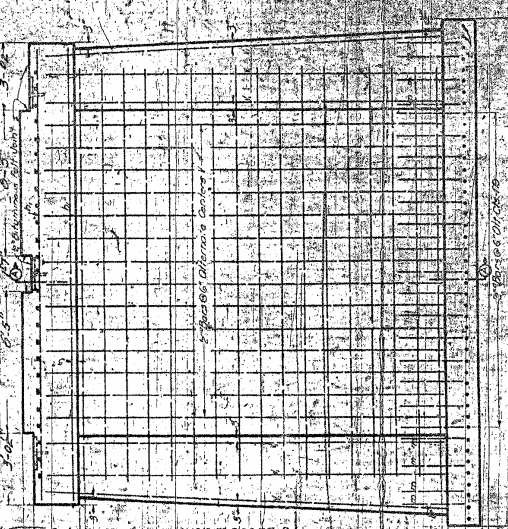
SECTION AA



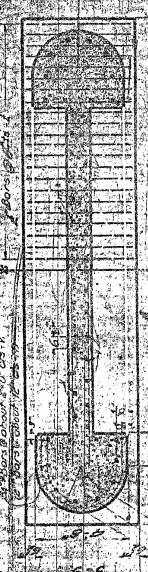
PLAN OF PIER  
SHOWING OUTLINES



PLAN OF CODING



ELEVATION



PLAN OF PIER  
SHOWING REINFORCEMENT  
IN FOOTING

SHOWING REINFORCEMENT  
IN FOOTING

**DESIGN DATA**

Approved by the State Highway Commission  
 Checked by the State Highway Commission  
 Design by the State Highway Commission  
 Date of Design: 1934

**GENERAL NOTE**

All dimensions shall be as shown on the drawings unless otherwise specified.  
 All dimensions shall be in feet and inches unless otherwise specified.  
 All dimensions shall be rounded up to the next higher whole number unless otherwise specified.  
 All dimensions shall be rounded up to the next higher whole number unless otherwise specified.  
 All dimensions shall be rounded up to the next higher whole number unless otherwise specified.

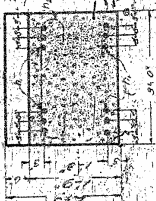
PROJECT NO. 22  
 CLEVELAND COUNTY  
 STA. 21+51

STATE OF OHIO  
 STATE HIGHWAY COMMISSION  
 STANDARD  
 P.C. PIER DETAIL  
 FOR  
 R.C. DECK GIRL  
 JULY 1932

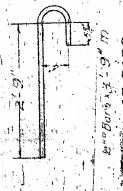
NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
1	Concrete	1.00	cu. yd.	1.00	1.00
2	Reinforcing Steel	1.00	lb.	1.00	1.00
3	Formwork	1.00	sq. ft.	1.00	1.00
4	Bricks	1.00	1000's	1.00	1.00
5	Mortar	1.00	cu. yd.	1.00	1.00
6	Paint	1.00	gal.	1.00	1.00
7	Other	1.00	unit	1.00	1.00
8	Other	1.00	unit	1.00	1.00
9	Other	1.00	unit	1.00	1.00
10	Other	1.00	unit	1.00	1.00

APPROVED: \_\_\_\_\_  
 STATE HIGHWAY COMMISSION  
 JULY 1932

DATE	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22



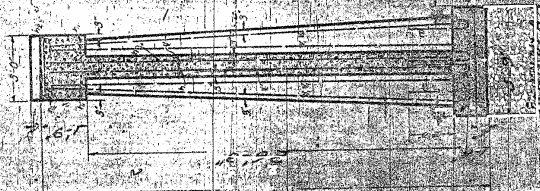
DETAIL OF COPING



DETAIL OF BARS - M



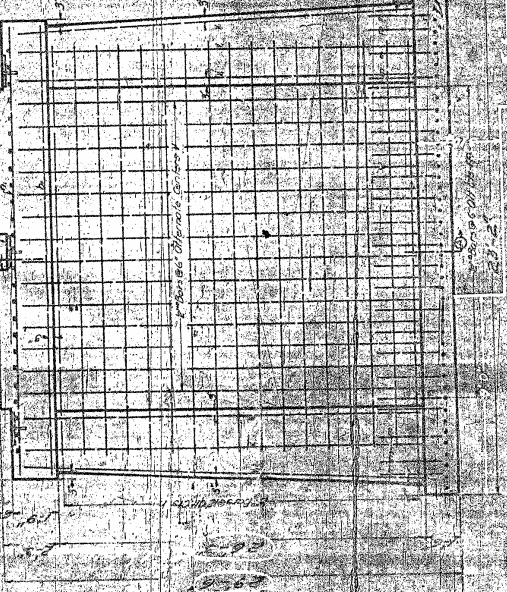
DETAIL OF BARS - h



ELEVATION



PLAN OF COPING

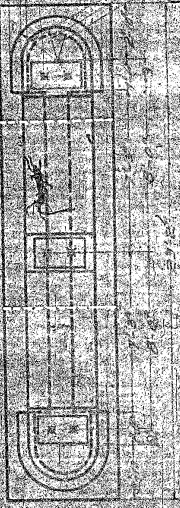


PLAN OF PIER



ELEVATION

SHOWING REINFORCEMENT IN FOOTING



PLAN OF PIER SHOWING OUTLINES

**DESIGN DATA**

Highway Commission  
 1000 lbs per sq. ft.  
 1000 lbs per sq. ft.  
 1000 lbs per sq. ft.  
 1000 lbs per sq. ft.

**GENERAL NOTE**

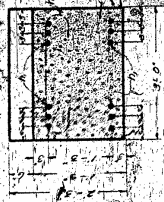
Reinforcing bars shall be furnished by the contractor. All bars shall be furnished by the contractor. All bars shall be furnished by the contractor. All bars shall be furnished by the contractor.

PROJECT NO. 922  
 CLEVELAND COUNTY  
 STATE HIGHWAY COMMISSION

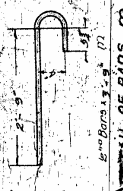
STATE HIGHWAY COMMISSION  
 STANDARD  
 R.C. PIER DETAILS  
 FOR  
 R.C. DECK GIRDERS  
 JULY 1922

NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	Concrete				
2	Reinforcing Bars				
3	Formwork				
4	Iron Pins				
5	Iron Nails				
6	Oil				
7	Paint				
8	Transportation				
9	Profit				
10	Contingency				
11	Subtotal				
12	Tax				
13	Total				

DATE	NO.	BY	REVISION
1-16	NC	28	1-2-22
S.M. 117			
P. 117			
L. 117			



DETAIL OF COPING

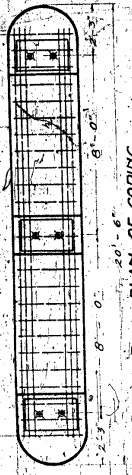


DETAIL OF BARS - 1

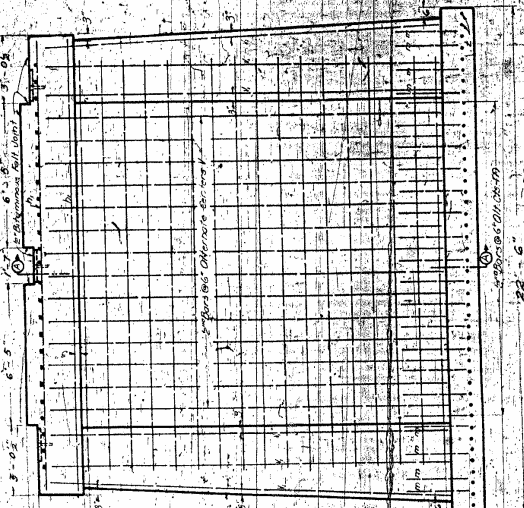


DETAIL OF BARS - 2

Coping at Finished Elevation P



PLAN OF COPING

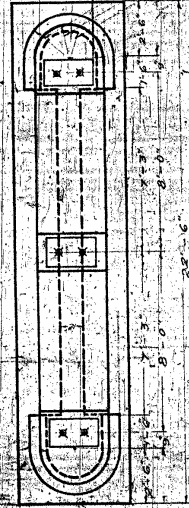


ELEVATION



PLAN OF PIER SHOWING REINFORCEMENT IN FOOTING

SHOWING REINFORCEMENT IN POST & WEB



SECTION AA

PLAN OF PIER SHOWING OUTLINES

**DESIGN DATA**

N.C. State Highway Commission  
 Approved by: [Signature]  
 Date: [Date]  
 This design is based on the report of [Name]  
 dated [Date]

**GENERAL NOTE**

All reinforcing steel shall be obtained from [Name]  
 and shall be furnished as indicated below by the [Name]  
 of [Name].  
 All reinforcing steel shall be secured, held in correct position at intervals  
 approved, with steel bar spacers, but this does not include  
 steel plates showing typical details.  
 All reinforcement shall conform to the standard  
 approved by the N.C. State Highway Commission.

PROJECT NO. 2122  
 CUMULATIVE COUNTY

STA. 211+52

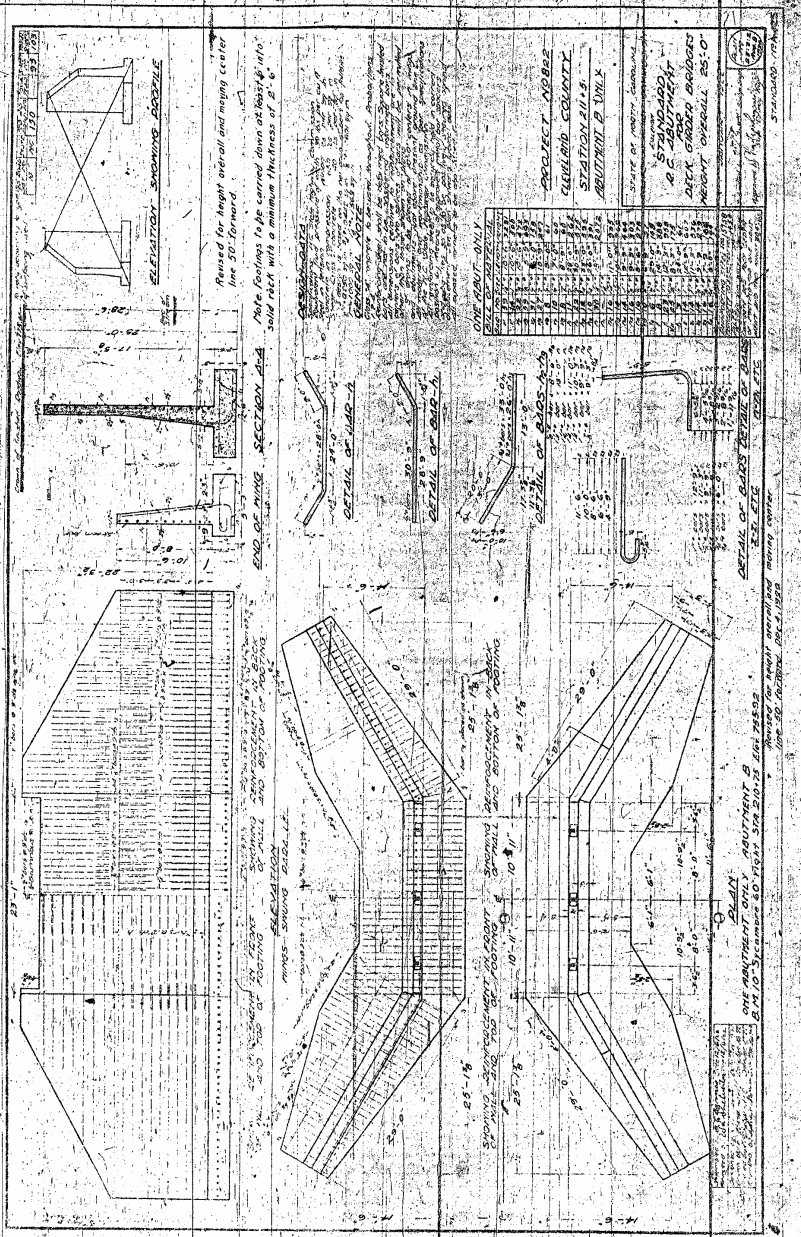
STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 STANDARD  
 R.C. PIER DETAILS  
 FOR  
 R.C. DECK GIRDER  
 JULY 1922

**BILL OF MATERIALS**

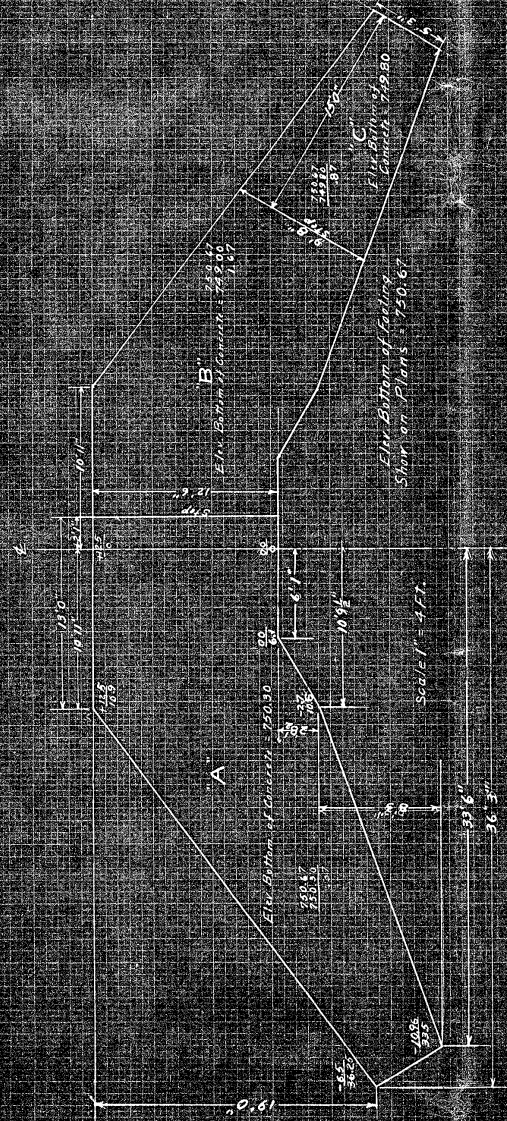
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	Reinforcing Steel		
2	Concrete		
3	Formwork		
4	Other		

APPROVED BY: [Signature]  
 DATE: [Date]  
 STANDARD  
 R.C. PIER DETAILS  
 FOR  
 R.C. DECK GIRDER  
 JULY 1922

Revised to show opening and reinforcement  
 See 30 Formed Deck Project 2-10-22



SKETCH SHOWING EXTRA  
 DEPTH CONCRETE IN ABUT 'B'  
 BUFFALO CREEK BRIDGE STA 211+38.45  
 PROJ. B22 CLEVELAND CO.



Surface Area of Abutment

0	411.60	11.00	33.5	163.30	91.15
10.8	335.826	365.92	16.9	18.0	0.00
0	0.1850	0.00	23.46	1.0693	
	23.46	411.85		2179.38	
				397.09	

Area A =  $397.09 + (218.02) \times 37 = 156.05$

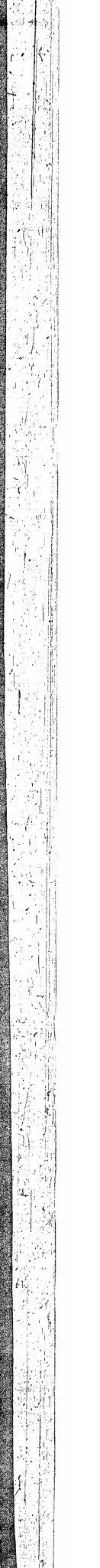
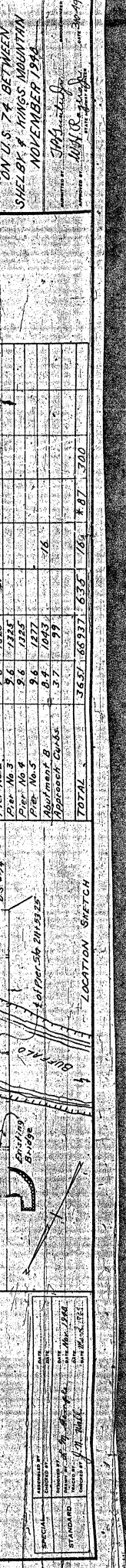
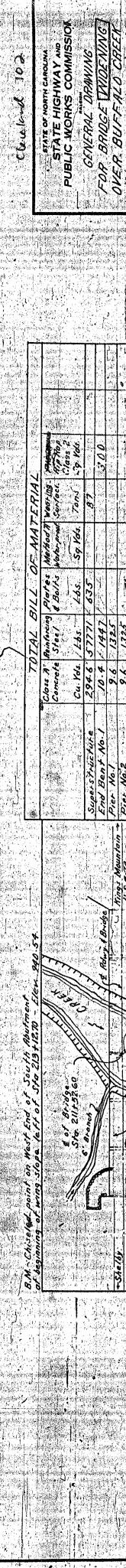
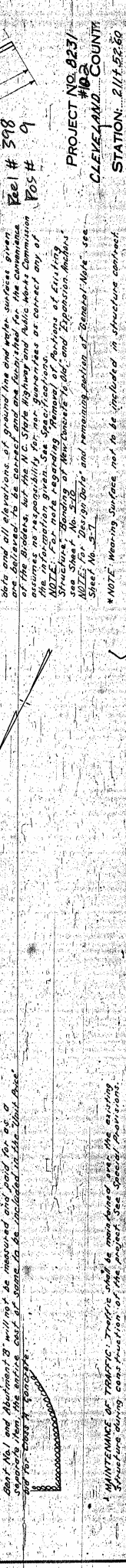
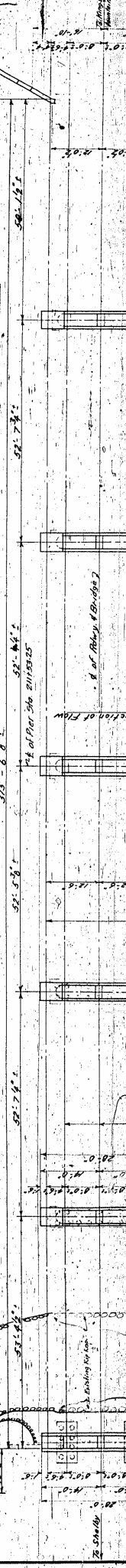
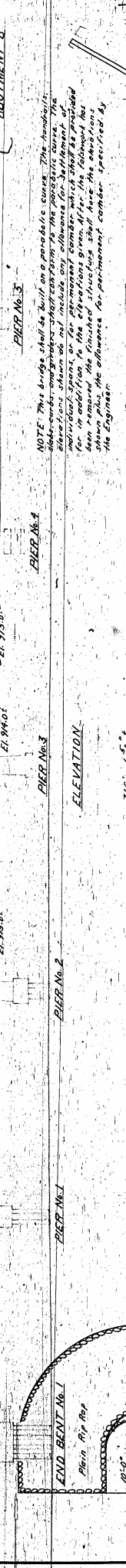
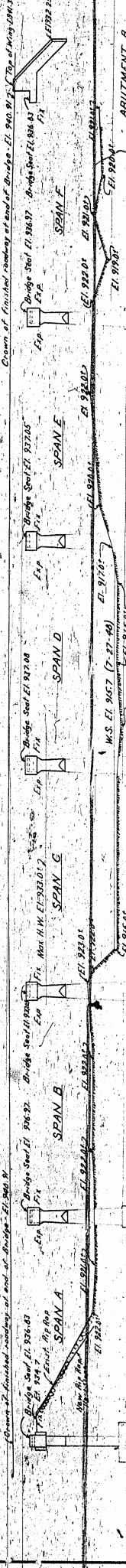
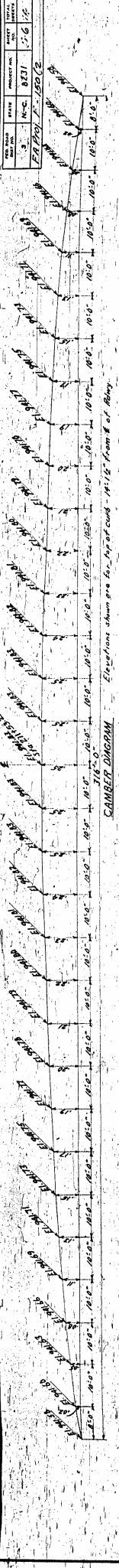
Area C =  $25.46 \times 15 = 111.90$       $111.90 \times 1.07 = 97.35$

Area B =  $(37.09 \times 12) \text{ (A/C)}$   
 $79.38 - 53.54 = 259.64 \text{ sq ft}$   
 $259.64 \text{ sq ft} \times 1.07 = 433.48$

Total Area =  $433.48 + 25.46 \text{ (at Extreme Depth Concrete)} = 681.67$



Red 398



Drawn of finished roadway at end of Bridge - El. 940.00

Elevations shown are for a road cut - 14.12' from E of Abut.

Span A: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Span B: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Span C: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Span D: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Span E: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment A: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment B: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment C: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment D: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment E: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment F: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment G: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment H: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment I: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment J: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment K: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment L: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

Abutment M: Bridge Seat El. 936.03, Top of Pier El. 947.7, Top of Abutment El. 947.7

NOTE: This bridge shall be built on a pile foundation. The foundation shall be designed by a qualified engineer. The contractor shall be responsible for obtaining all necessary permits and approvals. The contractor shall be responsible for the safety of the construction site. The contractor shall be responsible for the maintenance of the bridge during construction. The contractor shall be responsible for the removal of the bridge after construction is complete.

GENERAL NOTE: SURFACE FINISH: Concrete surfaces shall be finished in accordance with the specifications except that substructure shall be given a Class 2 surface finish. All concrete except in parapets shall be given a Class 2 surface finish. EXCAVATION: EXCAVATION: The excavation of foundation pits and all elevations of ground line and water surface given on this drawing are for the N.C. State Highway and Public Works Commission. The contractor shall be responsible for the safety of the construction site. The contractor shall be responsible for the maintenance of the bridge during construction. The contractor shall be responsible for the removal of the bridge after construction is complete.

NOTE: Excavation required for the construction of the abutments to End Pier No. 1 and Abutment B will not be measured and paid for as a separate item. The entire cost of work to be included in the "Total Price" bid for each structure.

1. MAINTENANCE OF TRAFFIC: Traffic shall be maintained over the existing structure during construction of the project. See Special Provisions.

B.M. - Checked point on West End of South Abutment at beginning of work. Sta. 16+11.50 - Elev. 940.54

LOCATION SKETCH: Shows the location of the bridge on a plan view, including the creek, road, and surrounding area.

STATION: 211F-52.50

PROJECT NO. 4231

CLEVELAND COUNTY

DATE: 1948

SCALE: 1" = 20'

DESIGNED BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]

DATE: 1948

STANDARD: [Standard]

SCALE: 1" = 20'

DESIGNED BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]

TOTAL BILL OF MATERIAL

Quantity	Unit	Material	Weight	Volume
294.6	Cu Yds	Concrete	165	5777.1
10.4	Yds	Gravel	145	1497
9.6	Yds	Sand	135	1285
9.6	Yds	Gravel	135	1285
9.6	Yds	Sand	127	1227
3.7	Yds	Gravel	99	99
363.5		TOTAL	635	764

GENERAL NOTE: SURFACE FINISH: Concrete surfaces shall be finished in accordance with the specifications except that substructure shall be given a Class 2 surface finish. All concrete except in parapets shall be given a Class 2 surface finish. EXCAVATION: EXCAVATION: The excavation of foundation pits and all elevations of ground line and water surface given on this drawing are for the N.C. State Highway and Public Works Commission. The contractor shall be responsible for the safety of the construction site. The contractor shall be responsible for the maintenance of the bridge during construction. The contractor shall be responsible for the removal of the bridge after construction is complete.

NOTE: This bridge shall be built on a pile foundation. The foundation shall be designed by a qualified engineer. The contractor shall be responsible for obtaining all necessary permits and approvals. The contractor shall be responsible for the safety of the construction site. The contractor shall be responsible for the maintenance of the bridge during construction. The contractor shall be responsible for the removal of the bridge after construction is complete.

NOTE: Excavation required for the construction of the abutments to End Pier No. 1 and Abutment B will not be measured and paid for as a separate item. The entire cost of work to be included in the "Total Price" bid for each structure.

STATE OF NORTH CAROLINA  
PUBLIC WORKS COMMISSION  
GENERAL DRAWING  
FOR BRIDGE CONSTRUCTION  
OVER BUFFALO CREEK  
ON U.S. 74 BETWEEN  
SHELBY & HINGS INDUSTRIES  
NOVEMBER 1948

PROJECT NO. 4231  
CLEVELAND COUNTY  
STATION: 211F-52.50

DATE: 1948

SCALE: 1" = 20'

DESIGNED BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]

STANDARD: [Standard]



DATE	NO.	BY
12/15/60	8271	J.P.F.
12/15/60	8271	J.P.F.

DESIGN DATA  
 AASHTO (1944)  
 See Specifications  
 (1944) for design of  
 concrete and steel  
 reinforcement  
 (1944) for design of  
 concrete and steel  
 reinforcement  
 (1944) for design of  
 concrete and steel  
 reinforcement

GENERAL NOTE  
 CONCRETE: Class 'C' concrete  
 shall be used unless  
 otherwise specified.  
 STEEL: AASHTO Grade 50  
 steel shall be used unless  
 otherwise specified.

REINFORCING STEEL: All reinforcing  
 steel shall be placed  
 in accordance with the  
 specifications, except that  
 Class 'D' bars may be used  
 in the concrete.

EXPANSION JOINT MATERIAL: Expansion joint  
 material may be either rubber compound or  
 concrete. The requirements of A.A.S.H.O.  
 shall be followed.

MANE PLATES: The name plates shall be placed  
 on the bridge, one on the north face of each  
 right hand and one on the south face of each  
 left hand pier. All bearing plates shall be  
 placed and bolted in accordance with the  
 specifications, except that  
 Class 'D' bars may be used.

MATERIAL AND DIMENSIONS: All material and  
 dimensions shall be in accordance with the  
 specifications, except that the  
 A.A.S.H.O. State Highway and Public Works  
 Commission.

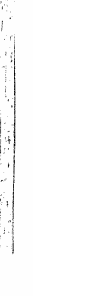
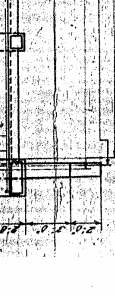
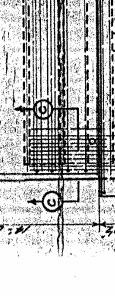
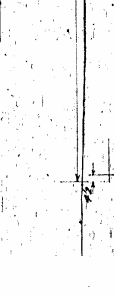
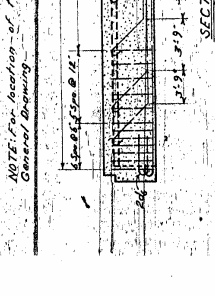
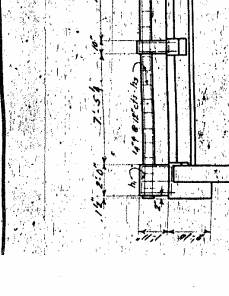
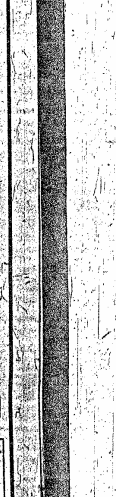
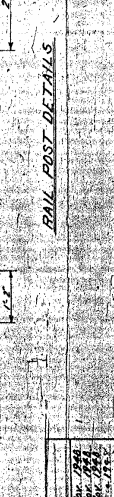
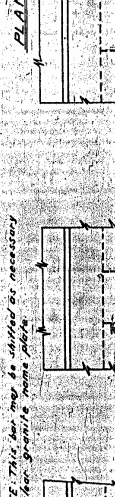
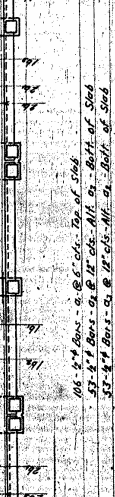
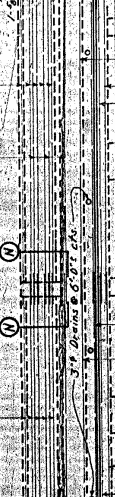
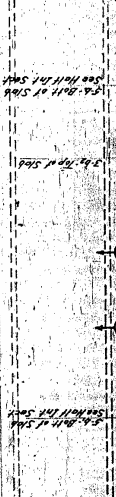
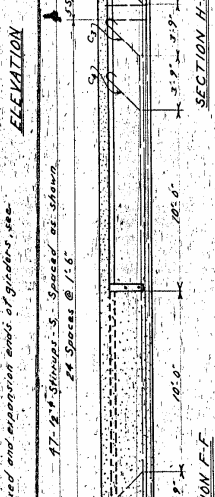
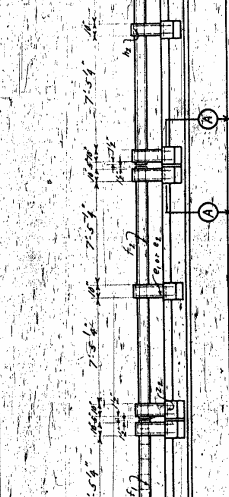
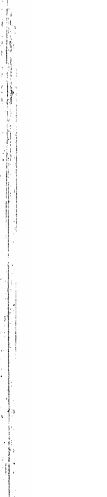
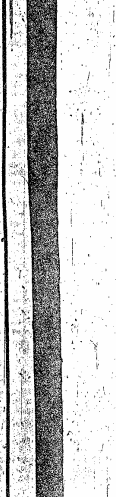
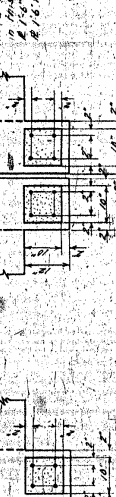
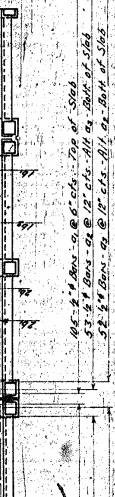
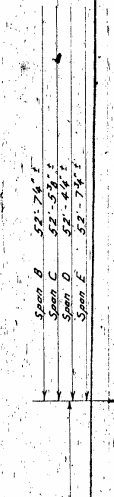
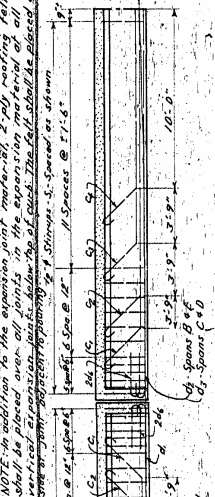
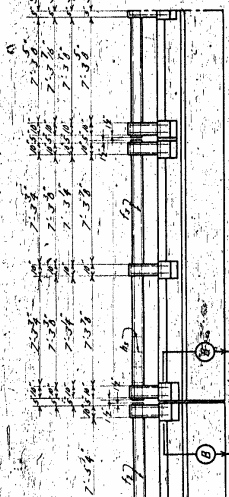
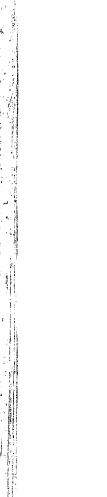
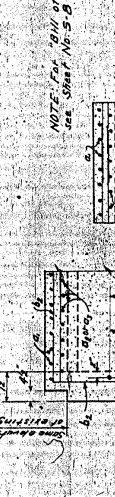
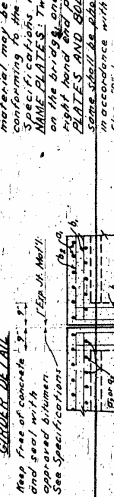
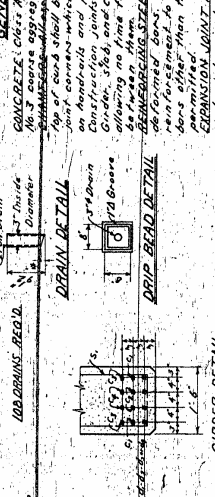
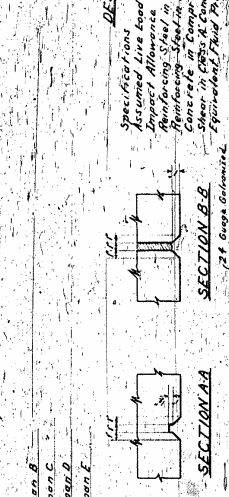
NOTE: For Bill of Material and details not shown  
 see Sheet No. 5-B

PROJECT NO. 8271  
 CALIFORNIA COUNTY  
 STATION: 11+52.60

SPANS 1-5-C-D-E

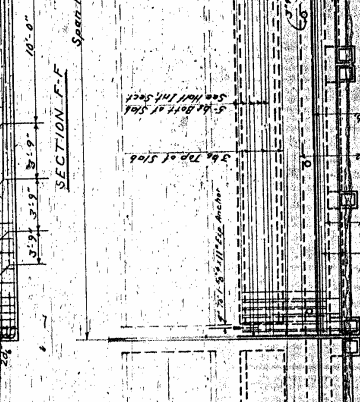
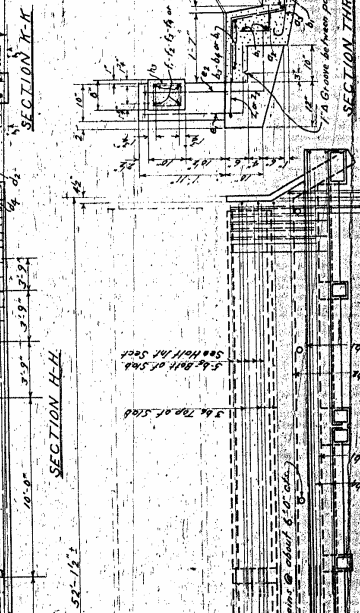
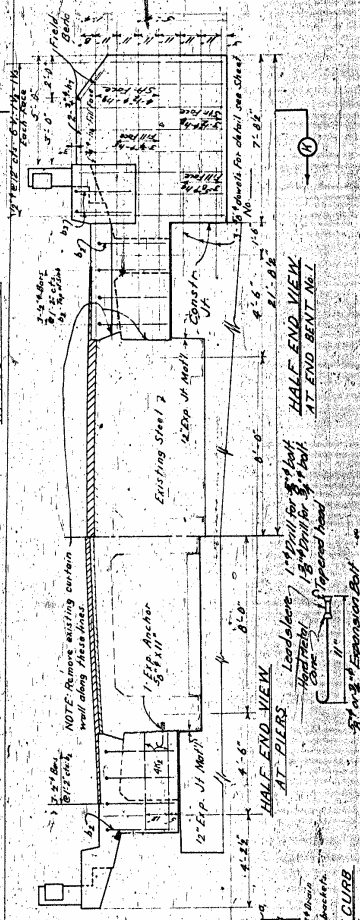
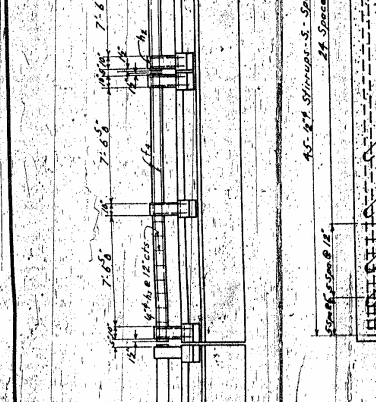
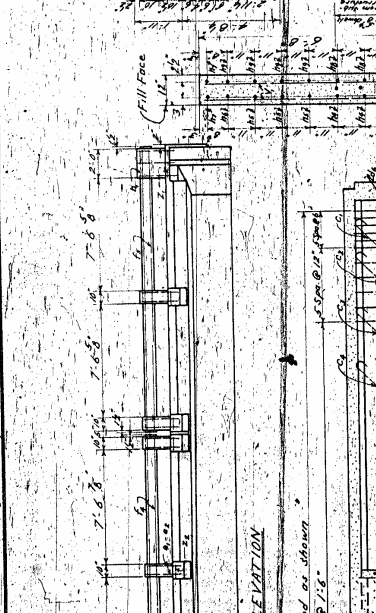
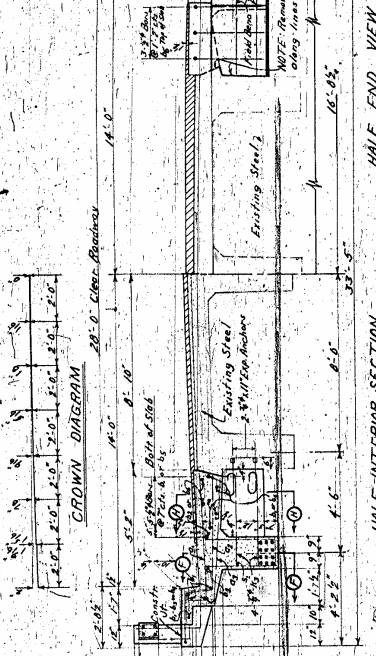
STATE OF CALIFORNIA  
 STATE HIGHWAY  
 PUBLIC WORKS COMMISSION  
 DETAILS OF SUPERSTRUCTURE  
 FOR BRIDGE WIDENING OVER  
 BUFFALO CREEK  
 ON U.S. 74 BETWEEN  
 SHELBY & KING'S MOUNTAIN  
 NOVEMBER 1949

DESIGNED BY  
 DRAWN BY  
 CHECKED BY  
 APPROVED BY



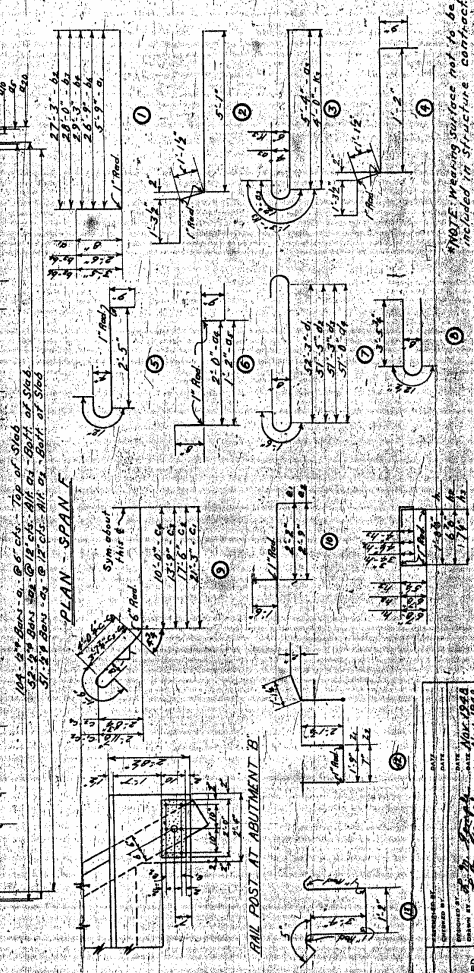
Sheet 398

DATE	PROJECT NO.	REV.	BY	CHK.
11/20/27	8237	1	[Signature]	[Signature]
12/15/27	8237	2	[Signature]	[Signature]



BILL OF MATERIAL - SIX SPANS

Span No.	Type	Length	Weight	Bar No.	Bar		Plate	
					No.	Wt.	No.	Wt.
1	1/2" x 1/4"	16	27.5	11	11	11	11	11
2	1/2" x 1/4"	16	27.5	11	11	11	11	11
3	1/2" x 1/4"	16	27.5	11	11	11	11	11
4	1/2" x 1/4"	16	27.5	11	11	11	11	11
5	1/2" x 1/4"	16	27.5	11	11	11	11	11
6	1/2" x 1/4"	16	27.5	11	11	11	11	11



NOTE: For Shop Drawing and General Notes, and details not shown on this sheet.

NOTE: For notes regarding bonding of New Concrete to Old, and taking of Expansion Anchors, see Sheet 399.

PROJECT NO. 8237  
CLEVELAND COUNTY  
STATION: 211 + 52.60  
SPAN 1

STATE OF NORTH CAROLINA  
PUBLIC WORKS COMMISSION  
DETAILS OF SUBSTRUCTURE  
FOR BRIDGE WIDENING OVER  
BUCKLEY & KINGS MOUNTAIN  
BRIDGES BETWEEN  
NOVEMBER 1948

3184  
M.H. [Signature]

NOTE: Washing surfaces not to be included in structure contract.

BAR TYPES

Bar	No.	Wt.	Type	Length	Weight
1	11	11	1/2" x 1/4"	16	27.5
2	11	11	1/2" x 1/4"	16	27.5
3	11	11	1/2" x 1/4"	16	27.5
4	11	11	1/2" x 1/4"	16	27.5
5	11	11	1/2" x 1/4"	16	27.5
6	11	11	1/2" x 1/4"	16	27.5
7	11	11	1/2" x 1/4"	16	27.5
8	11	11	1/2" x 1/4"	16	27.5
9	11	11	1/2" x 1/4"	16	27.5
10	11	11	1/2" x 1/4"	16	27.5

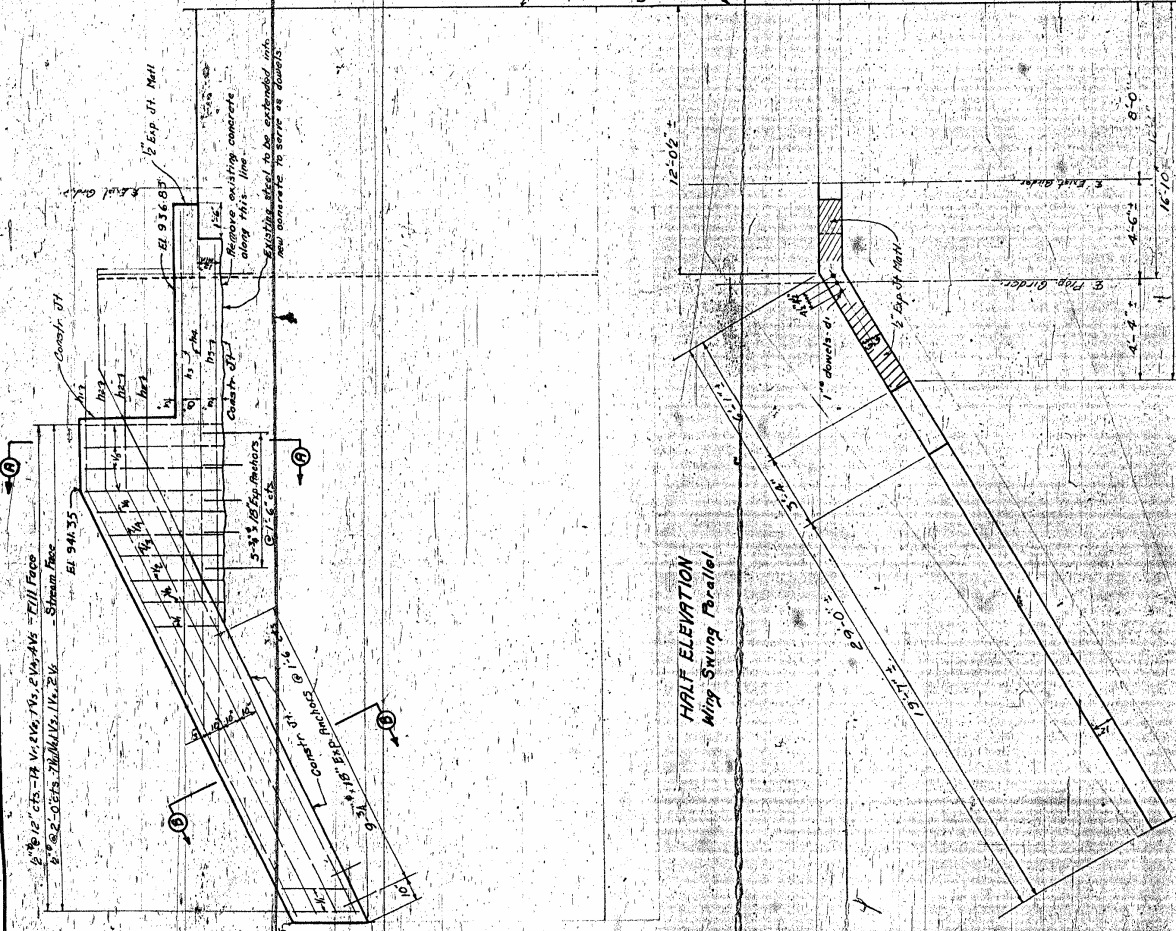
SPECIAL STANDARD



PROJECT NO.	DATE	SCALE	BY
6231	7-10-24		
REV. NO.	REV. DATE	REV. BY	REV. DESCRIPTION
1			

Note: Portions of the existing structure shall be removed as necessary to accommodate the proposed extension as indicated on the plans. The existing steel shall be left in place, bent or cut as necessary. See jointing details at points indicated on plans and expansion anchors inserted. Where new concrete is to be bonded to old, the connecting surface of the old concrete shall be thoroughly roughened, cleaned of loose material, wetted and flushed with a top cement mortar. Immediately after pouring of concrete, the remaining protruding rebar, shall be included in the fill concrete for Class 3 concrete.

Note: Method of waterproofing shall be placed over all construction joints, above top of footing. Strips of waterproofing shall be 2'-0" wide and placed symmetrical about joint. These strips of waterproofing shall also be placed both of all joints between new and old concrete.



Bar No.	Size	Type	Length	Weight
h1	4	3/4"	16'-6"	7.65
h2	4	3/4"	16'-6"	7.65
h3	4	3/4"	16'-6"	7.65
h4	4	3/4"	16'-6"	7.65
h5	4	3/4"	16'-6"	7.65
h6	4	3/4"	16'-6"	7.65
h7	4	3/4"	16'-6"	7.65
h8	4	3/4"	16'-6"	7.65
h9	4	3/4"	16'-6"	7.65
h10	4	3/4"	16'-6"	7.65
h11	4	3/4"	16'-6"	7.65
h12	4	3/4"	16'-6"	7.65
h13	4	3/4"	16'-6"	7.65
h14	4	3/4"	16'-6"	7.65
h15	4	3/4"	16'-6"	7.65
h16	4	3/4"	16'-6"	7.65
h17	4	3/4"	16'-6"	7.65
h18	4	3/4"	16'-6"	7.65
h19	4	3/4"	16'-6"	7.65
h20	4	3/4"	16'-6"	7.65
h21	4	3/4"	16'-6"	7.65
h22	4	3/4"	16'-6"	7.65
h23	4	3/4"	16'-6"	7.65
h24	4	3/4"	16'-6"	7.65
h25	4	3/4"	16'-6"	7.65
h26	4	3/4"	16'-6"	7.65
h27	4	3/4"	16'-6"	7.65
h28	4	3/4"	16'-6"	7.65
h29	4	3/4"	16'-6"	7.65
h30	4	3/4"	16'-6"	7.65
h31	4	3/4"	16'-6"	7.65
h32	4	3/4"	16'-6"	7.65
h33	4	3/4"	16'-6"	7.65
h34	4	3/4"	16'-6"	7.65
h35	4	3/4"	16'-6"	7.65
h36	4	3/4"	16'-6"	7.65
h37	4	3/4"	16'-6"	7.65
h38	4	3/4"	16'-6"	7.65
h39	4	3/4"	16'-6"	7.65
h40	4	3/4"	16'-6"	7.65
h41	4	3/4"	16'-6"	7.65
h42	4	3/4"	16'-6"	7.65
h43	4	3/4"	16'-6"	7.65
h44	4	3/4"	16'-6"	7.65
h45	4	3/4"	16'-6"	7.65
h46	4	3/4"	16'-6"	7.65
h47	4	3/4"	16'-6"	7.65
h48	4	3/4"	16'-6"	7.65
h49	4	3/4"	16'-6"	7.65
h50	4	3/4"	16'-6"	7.65
h51	4	3/4"	16'-6"	7.65
h52	4	3/4"	16'-6"	7.65
h53	4	3/4"	16'-6"	7.65
h54	4	3/4"	16'-6"	7.65
h55	4	3/4"	16'-6"	7.65
h56	4	3/4"	16'-6"	7.65
h57	4	3/4"	16'-6"	7.65
h58	4	3/4"	16'-6"	7.65
h59	4	3/4"	16'-6"	7.65
h60	4	3/4"	16'-6"	7.65
h61	4	3/4"	16'-6"	7.65
h62	4	3/4"	16'-6"	7.65
h63	4	3/4"	16'-6"	7.65
h64	4	3/4"	16'-6"	7.65
h65	4	3/4"	16'-6"	7.65
h66	4	3/4"	16'-6"	7.65
h67	4	3/4"	16'-6"	7.65
h68	4	3/4"	16'-6"	7.65
h69	4	3/4"	16'-6"	7.65
h70	4	3/4"	16'-6"	7.65
h71	4	3/4"	16'-6"	7.65
h72	4	3/4"	16'-6"	7.65
h73	4	3/4"	16'-6"	7.65
h74	4	3/4"	16'-6"	7.65
h75	4	3/4"	16'-6"	7.65
h76	4	3/4"	16'-6"	7.65
h77	4	3/4"	16'-6"	7.65
h78	4	3/4"	16'-6"	7.65
h79	4	3/4"	16'-6"	7.65
h80	4	3/4"	16'-6"	7.65
h81	4	3/4"	16'-6"	7.65
h82	4	3/4"	16'-6"	7.65
h83	4	3/4"	16'-6"	7.65
h84	4	3/4"	16'-6"	7.65
h85	4	3/4"	16'-6"	7.65
h86	4	3/4"	16'-6"	7.65
h87	4	3/4"	16'-6"	7.65
h88	4	3/4"	16'-6"	7.65
h89	4	3/4"	16'-6"	7.65
h90	4	3/4"	16'-6"	7.65
h91	4	3/4"	16'-6"	7.65
h92	4	3/4"	16'-6"	7.65
h93	4	3/4"	16'-6"	7.65
h94	4	3/4"	16'-6"	7.65
h95	4	3/4"	16'-6"	7.65
h96	4	3/4"	16'-6"	7.65
h97	4	3/4"	16'-6"	7.65
h98	4	3/4"	16'-6"	7.65
h99	4	3/4"	16'-6"	7.65
h100	4	3/4"	16'-6"	7.65

PROJECT NO. 6231  
CLEVELAND COUNTY  
STATION: 211+52.60  
ABUTMENT-B

STATE OF NORTH CAROLINA  
PUBLIC WORKS COMMISSION

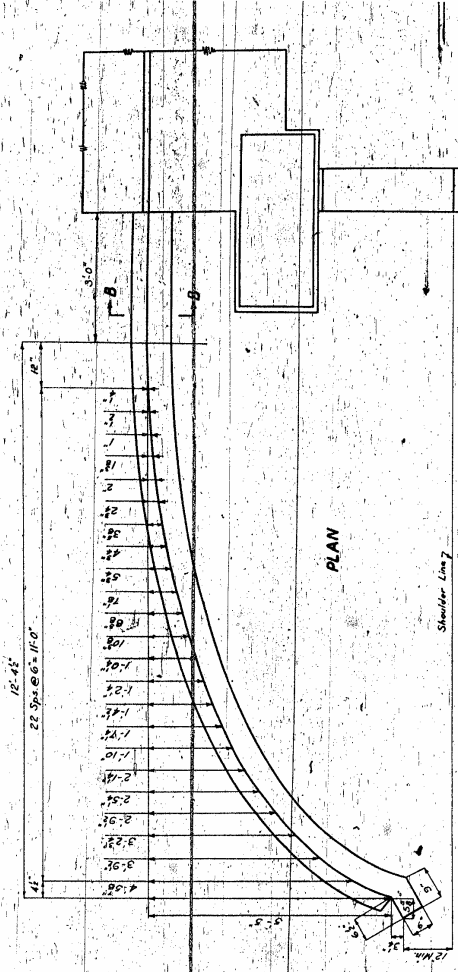
SUBSTRUCTURE DETAILS  
FOR BRIDGE WIDENING OVER  
BUFFALO CREEK  
ON U.S. 74 BETWEEN  
SHELBY & KINGS MOUNTAIN  
NOVEMBER, 1948

DESIGNED BY: J.P. ...  
CHECKED BY: ...

APPROVED BY	DATE
SPECIAL INSPECTOR	...
DESIGNED BY	...
CHECKED BY	...
DATE	...

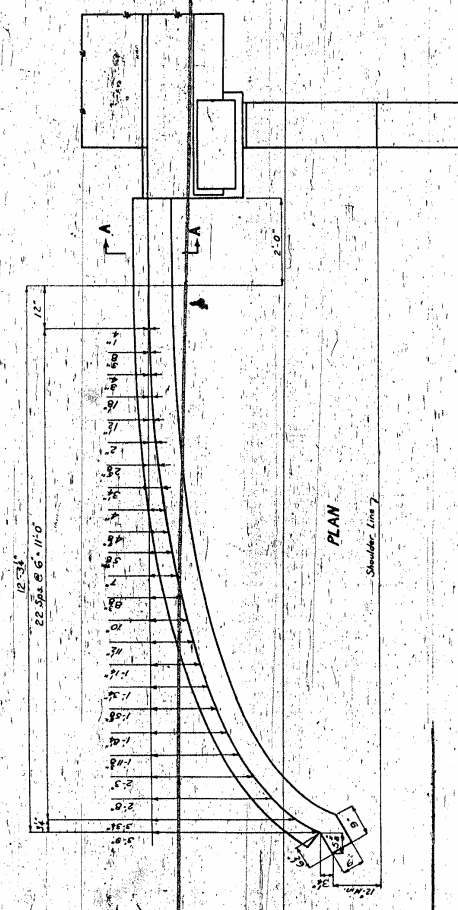
REV. 2-9

NO.	DATE	BY	REVISION
1	11-1-50	M.C.	PREPARED
2	11-1-50	M.C.	REVISED
3	11-1-50	M.C.	REVISED



PLAN

Shoulder line 7



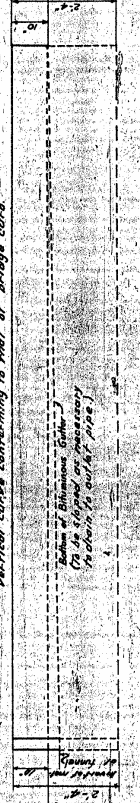
PLAN

Shoulder line 7

NOTE: The materials for and paid for as a separate item. The entire cost of the materials for the approach curb in this plan is included in the bill of material for Class "A" Concrete, Class "A" Reinforcing Bars and Bituminous Sealant. The quantities to be ordered and listed by Roadway Contractor.

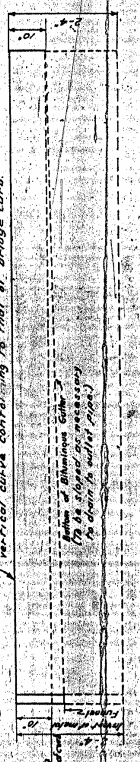
Approach curb to be constructed of any grade or finished surface conforming to that of bridge curb.

Approach curb to be constructed of any grade or finished surface conforming to that of bridge curb.



ELEVATION

Shoulder line 7 of roadway face of curb



ELEVATION

Shoulder line 7 of roadway face of curb

**BILL OF MATERIAL FOR CURBS**

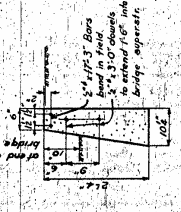
8.57' x 3.0" x 1/2" Bituminous Sealant	1.00 cu yd
8.57' x 3.0" x 1/2" Concrete	3.00 cu yd
Class "A" Concrete	3.00 cu yd

TO BE USED WITH 2'-0" WALLS

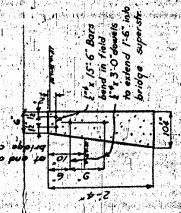
**BILL OF MATERIAL FOR CURBS**

8.57' x 3.0" x 1/2" Bituminous Sealant	1.00 cu yd
8.57' x 3.0" x 1/2" Concrete	3.00 cu yd
Class "A" Concrete	3.00 cu yd

TO BE USED WITH 12'-2 1/2" CURBS



SECTION B-B



SECTION A-A

PROJECT NO. 8231  
CLEVELAND COUNTY  
STATION: 21+52.60

STATE OF NORTH CAROLINA  
STATE HIGHWAY AND  
PUBLIC WORKS COMMISSION  
SPECIAL  
DETAILS  
FOR  
BRIDGE APPROACH CURBS  
JUNE 1948

SPECIAL

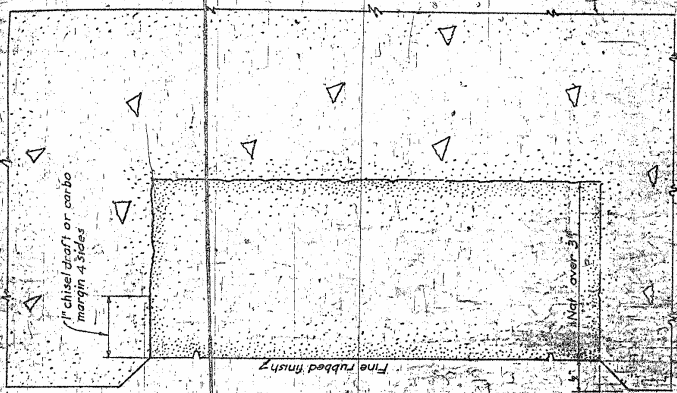
DESIGNED BY	M.C.
CHECKED BY	M.C.
DATE	11-1-50
APPROVED BY	M.C.
DATE	11-1-50

STANDARD

Revised for slope of Approach Curb. Nov. 18, 1948

Standard No. MAC-7  
MAC-7

DATE	NO.	BY	CHKD.
1945	1	J. H. ...	J. H. ...
E.P. 101 - 102 (1)			



SECTION AA

**GENERAL NOTE**  
 Plates are required for each bridge, one on each side of the bridge and just above the bridge. See location Detail.

Plates shall be made of granite or diorite. Granite shall be of the highest quality and shall be free from any cracks, fissures, or other defects. Plates shall be of the size of the rubber stamp. Letters shall be sandblasted, sunken, high, vertical, Modern Roman type. The numbering shall be as shown in the Detail. Spacing of correct wording.

The material of the name plates complete in place shall be installed in the concrete, please bid for Class A concrete.

PROJECT NO. CLEVELAND  
 STATION 217

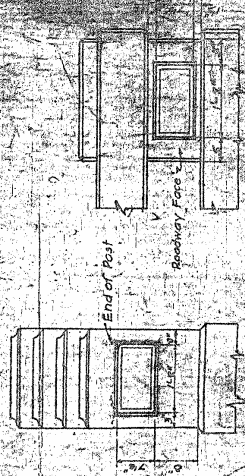
STATE OF OHIO  
 STATE HIGHWAY  
 PUBLIC WORKS

STANDARD NAME PLATE  
 FOR  
 CONCRETE BRIDGE



CLEVELAND COUNTY  
 STATE PROJECT 3-31  
 FEDERAL AID  
 1945

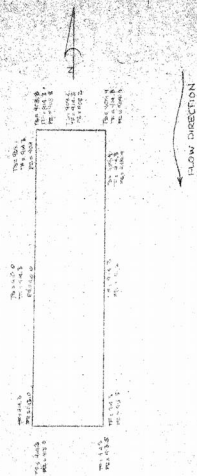
DETAIL SPACING CORRECT WORDING



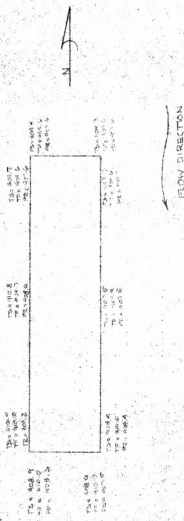
LOCATION DETAIL FOR NAME PLATES

INTERIOR PIERS WBL HWY 74 OVER BUFFALO CREEK

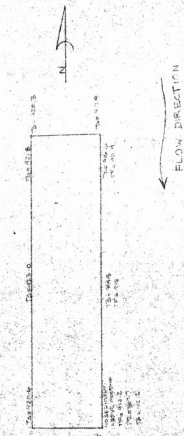
PIER # 4



PIER # 3

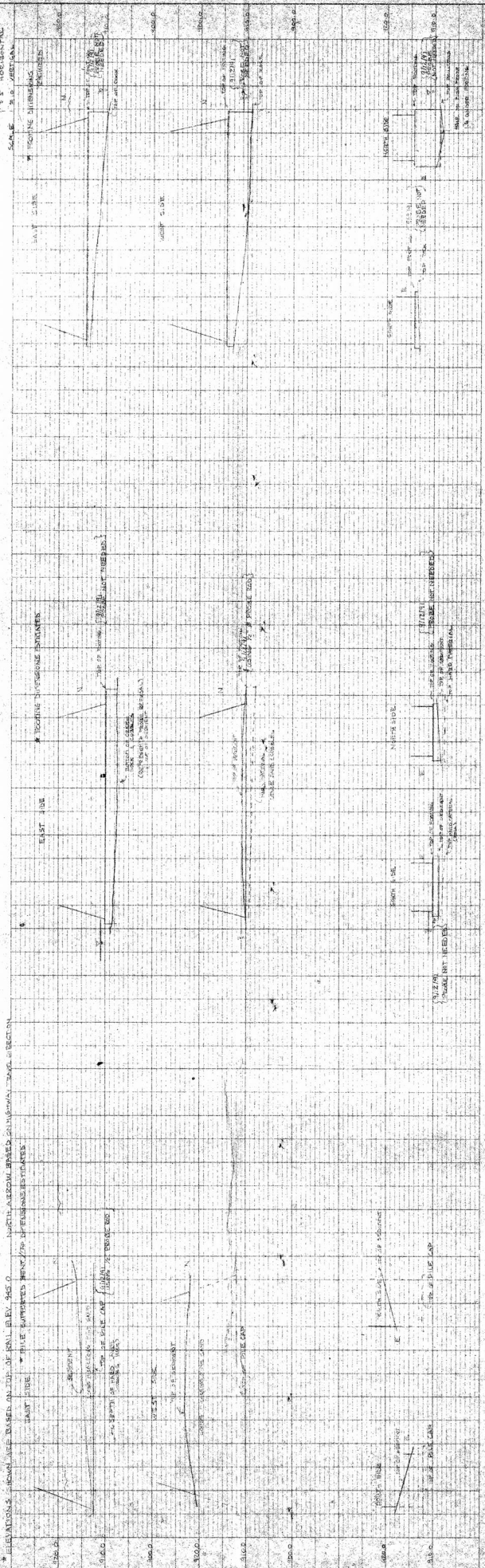


PIER # 2



ALL ELEVATIONS SHOWN ARE BASED ON TIP OF PILE ELEV. 945.0  
 1. TO TOP OF ABUTMENT  
 2. TO TOP OF FOOTING/APP  
 PR. PROBE REFUSAL

ELEVATIONS SHOWN ARE BASED ON TIP OF PILE ELEV. 945.0 NORTH ARROW BASED ON USUAL FLOW DIRECTION



Rad 408

STATE PROJ. NO.	408
PROJECT NO.	8231
CITY OR TOWN	CLAYTON
COUNTY	CLEVELAND
DATE	7-2-49
BY	A. J. THOMPSON
CHECKED	J. H. WATSON

Sheet # 408  
 Pos # 1

# STATE OF NORTH CAROLINA STATE HIGHWAY AND PUBLIC WORKS COMMISSION

## PLAN AND PROFILE OF PROPOSED STATE HIGHWAY CLEVELAND COUNTY

8231

### CONVENTIONAL SIGNS

- County Line
- Township Line
- City or Town Line
- Right of Way Line
- Survey Line
- Proposed Line
- Utility Lines
- Board Fence
- Present Traveled Road
- Ballroad
- Grade Elevation
- Ground Elevation
- Pipe Culvert
- Box Culvert
- Telephone or Telegraph Pole
- Power Pole and Line
- Power Pole
- Prop. Right of Way Marking



Scale: 1" = 100'

Vertical Scale: 1" = 20'

APPROVED: *W.H. Lippert*  
 STATE ENGINEER

RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
REVIEWED BY	DATE

Beginning at Sta. 0+140 center line of US 74 at east end of existing bridge over First Broad River 1.7 Miles West of Shelby and running in a general southeasterly direction through South Shelby to Sta. 1+74.5. Thereafter along the best available right of way line established by survey from Kings Mtn. to Kings Mtn.

### SCALES

Plans 1" = 100'  
 Profile 1" = 20'  
 Profile 1" = 10'

### INDEX OF SHEETS

- 1 - This Page
- 2 - Preliminary Quantities
- 3 - Estimate of Quantities
- 4 - Estimate of Materials
- 5 - Estimate of Labor
- 6 - Estimate of Subcontract
- 7 - Estimate of Construction
- 8 - Estimate of Total Project
- 9 - Estimate of Profit
- 10 - Summary of Estimate
- 11 - Estimate of Interest
- 12 - Estimate of Insurance
- 13 - Estimate of Taxes
- 14 - Estimate of Contingency
- 15 - Estimate of Bond
- 16 - Estimate of Administration
- 17 - Estimate of Miscellaneous
- 18 - Estimate of Unforeseen
- 19 - Estimate of Total
- 20 - Estimate of Final

Sta. 0+137 to Sta. 16+24.520(1) 2.603 M  
 Length of Right of Way 2603 M  
 Sta. 0+137 to Sta. 69+115 76.978 M  
 Length of Right of Way 76978 M

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State Standard Specifications  
 Approved by State Engineer  
 Date: 7-2-49