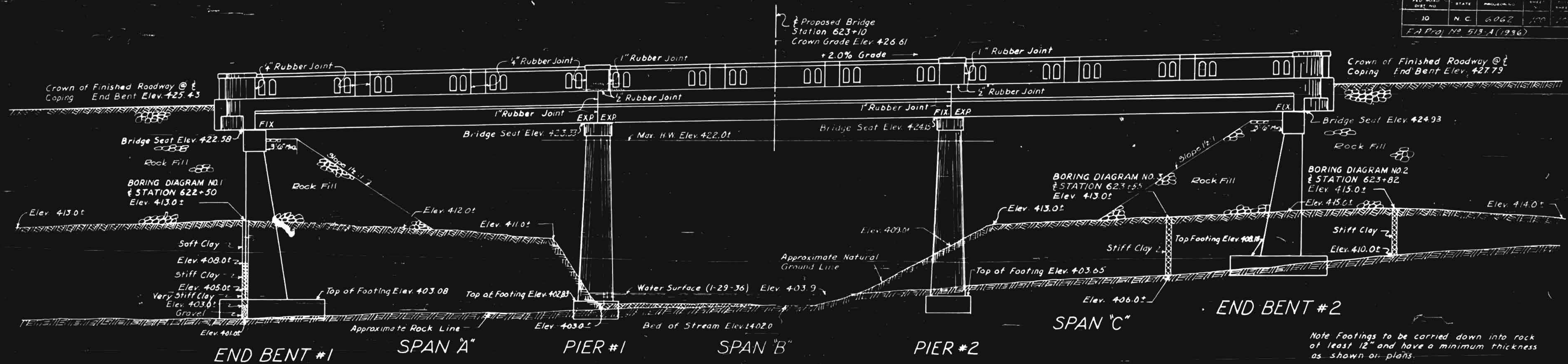
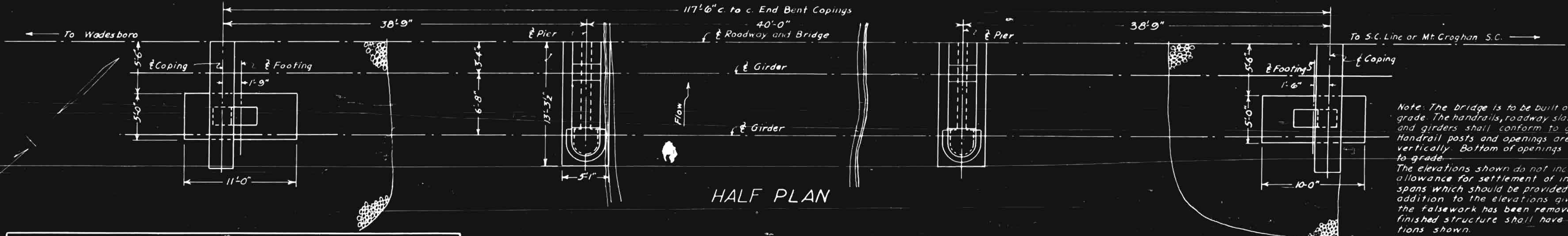


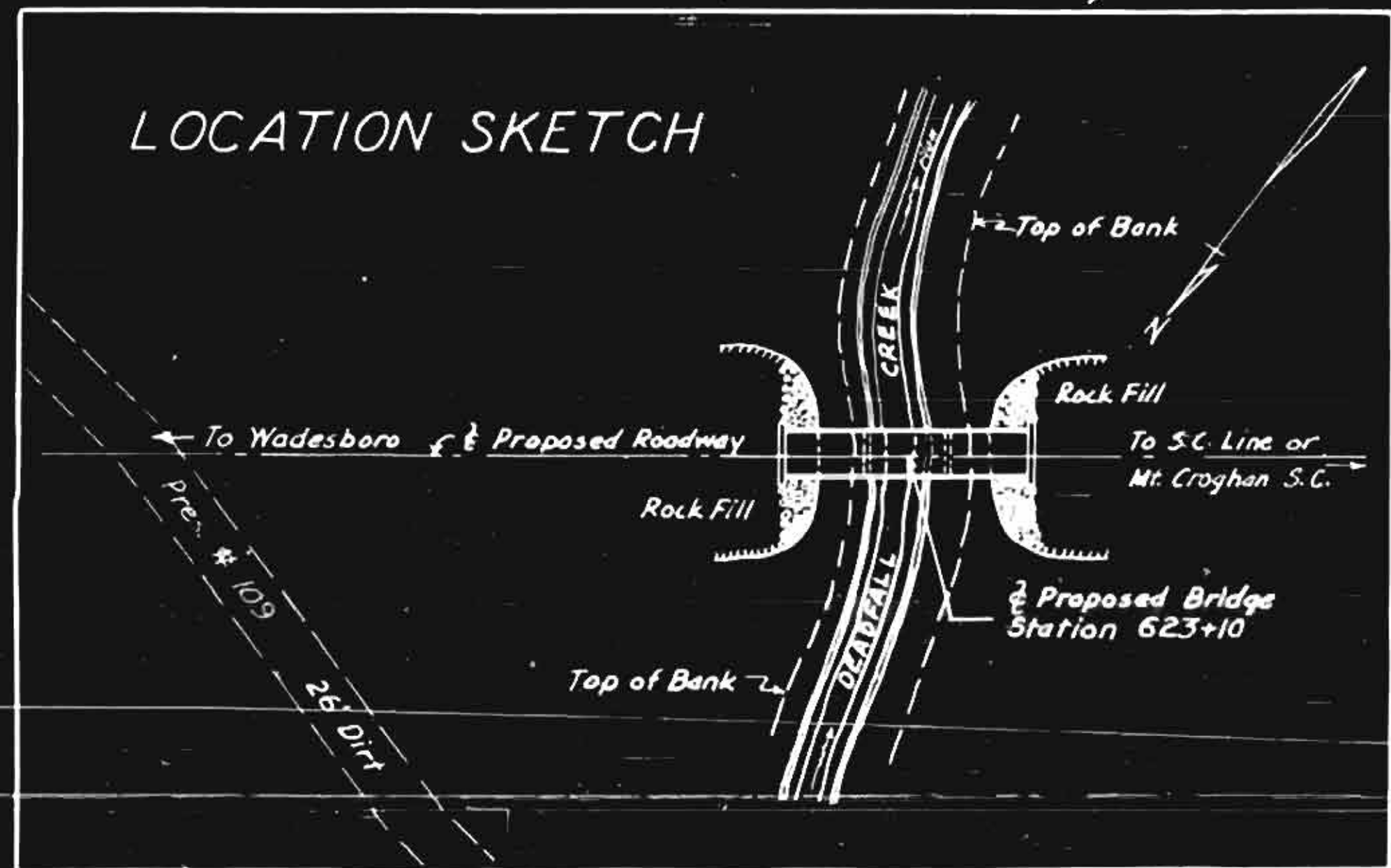
FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N.C.	6062	100	100
F.A. Proj. No. 513-A (1936)				



Note Footings to be carried down into rock at least 12" and have a minimum thickness as shown on plans.



Note: The bridge is to be built on a +2.0% grade. The handrails, roadway slab, curbs and girders shall conform to grade. Handrail posts and openings are to be built vertically. Bottom of openings to conform to grade. The elevations shown do not include any allowance for settlement of individual spans which should be provided for in addition to the elevations given. After the falsework has been removed the finished structure shall have the elevations shown.



DESIGN DATA:

Specifications: American Association of State Highway Officials.
 Assumed Live Load: H15
 Steel in Tension: 16,000 lbs per sq. in.
 Concrete in Compression: 900 lbs per sq. in.
 Impact Allowance For Live Load: See Specifications.
 Concrete in Shear: 60 lbs per sq. in.

GENERAL NOTE:

Class "A" concrete to be used thruout. Maximum size of coarse aggregate to be 1 1/2" except in handrails of superstructure. Maximum size of coarse aggregate in handrails above top of curbs shall be 3/4". All exposed corners of concrete shall be chamfered 1" with the following exception, corners on handrails 3/4", balusters and expansion joint corners 3/8".
 All reinforcing steel shall be deformed bars, dimensions relative to same are to centers of bars. No splicing of bars other than those shown on plans will be permitted. All reinforcing steel shall be held securely in correct position.
 Two name plates curved to the proper radius shall be provided for the bridge. One shall be placed on each right hand end post approaching the bridge.
 Rubber compound expansion joint material shall be used thruout.
 The excavation and foundation data and all elevations of ground line & water surfaces given are believed to be correct and are furnished for the convenience of the bidder but the State Highway and Public Works Commission assumes no responsibility for nor guarantees as correct any of 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: A temporary crossing shall be provided at Station 623+10. The existing bridge 150' upstream consisting of an 80' steel pony truss with concrete abutments may be used as a temporary crossing and shall afterwards be completely removed. See Specifications.

DIVISION OF CLASS "A" CONCRETE

13.3 cu-yds. Max. Size of coarse Aggregate 3/4"
 294.2 cu-yds. Max. Size of coarse Aggregate 1 1/2"
 307.5 cu-yds. Total

TOTAL BILL OF MATERIAL			
	Class "A" Con. cu-yds.	Reinforcing Steel - lbs.	Plates & Bolts - lbs.
Superstructure	173.9	49404	282
End Bent #1	27.6	4266	—
Pier #1	40.8	2864	196
Pier #2	40.8	2968	94
End Bent #2	24.4	3888	—
Totals	307.5	63390	572

* Includes 2190 lbs galvanized steel to be paid for as reinforcing steel.

PROJECT NO. 6062
 ANSON COUNTY
 STATION 623+10

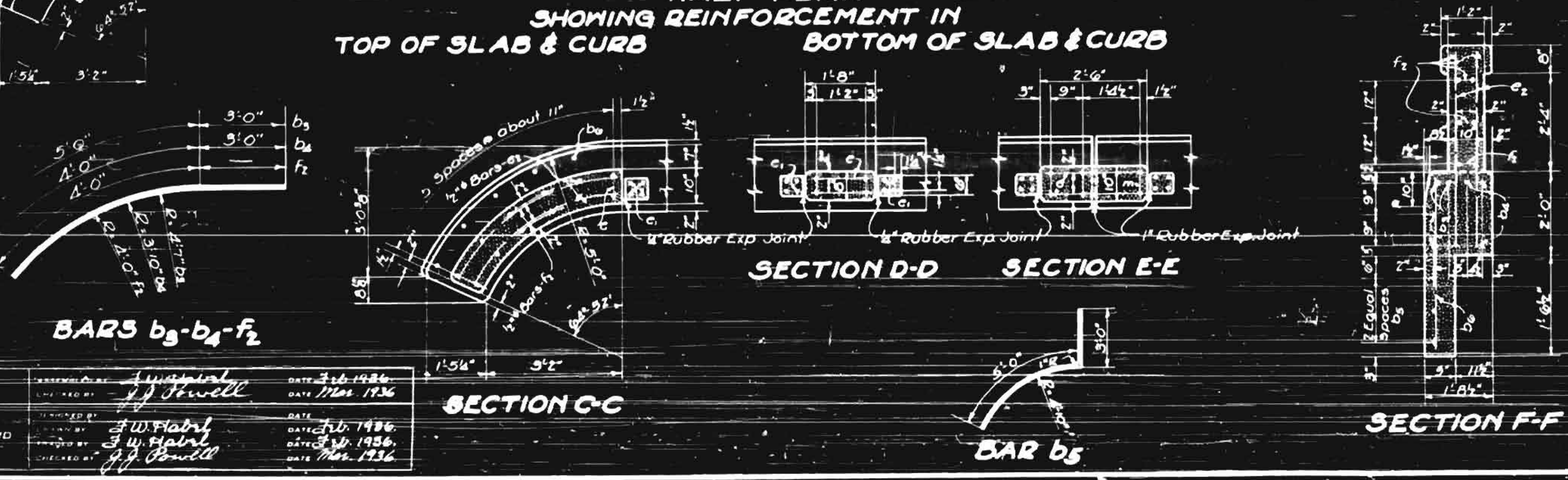
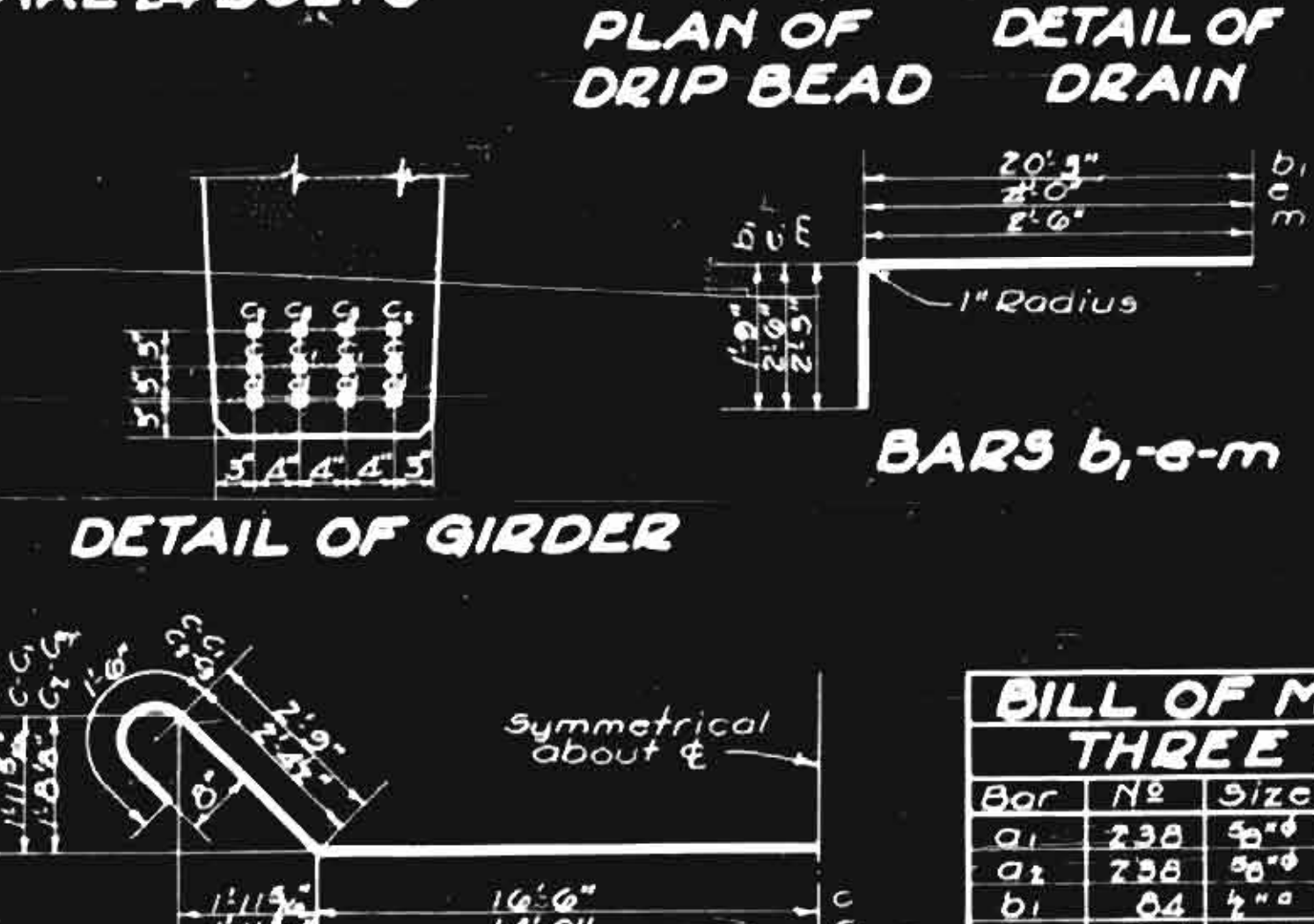
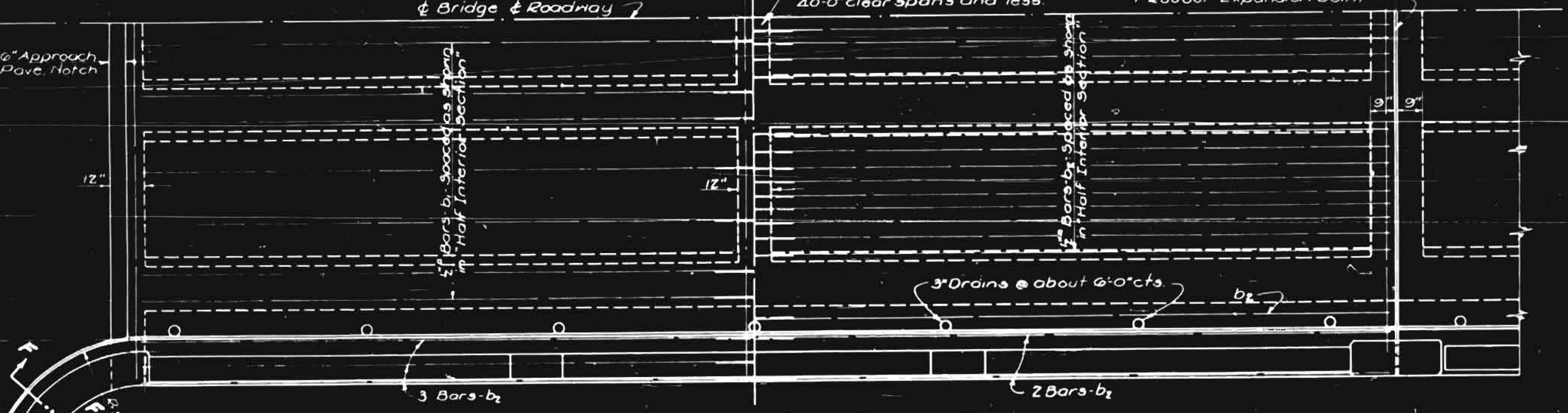
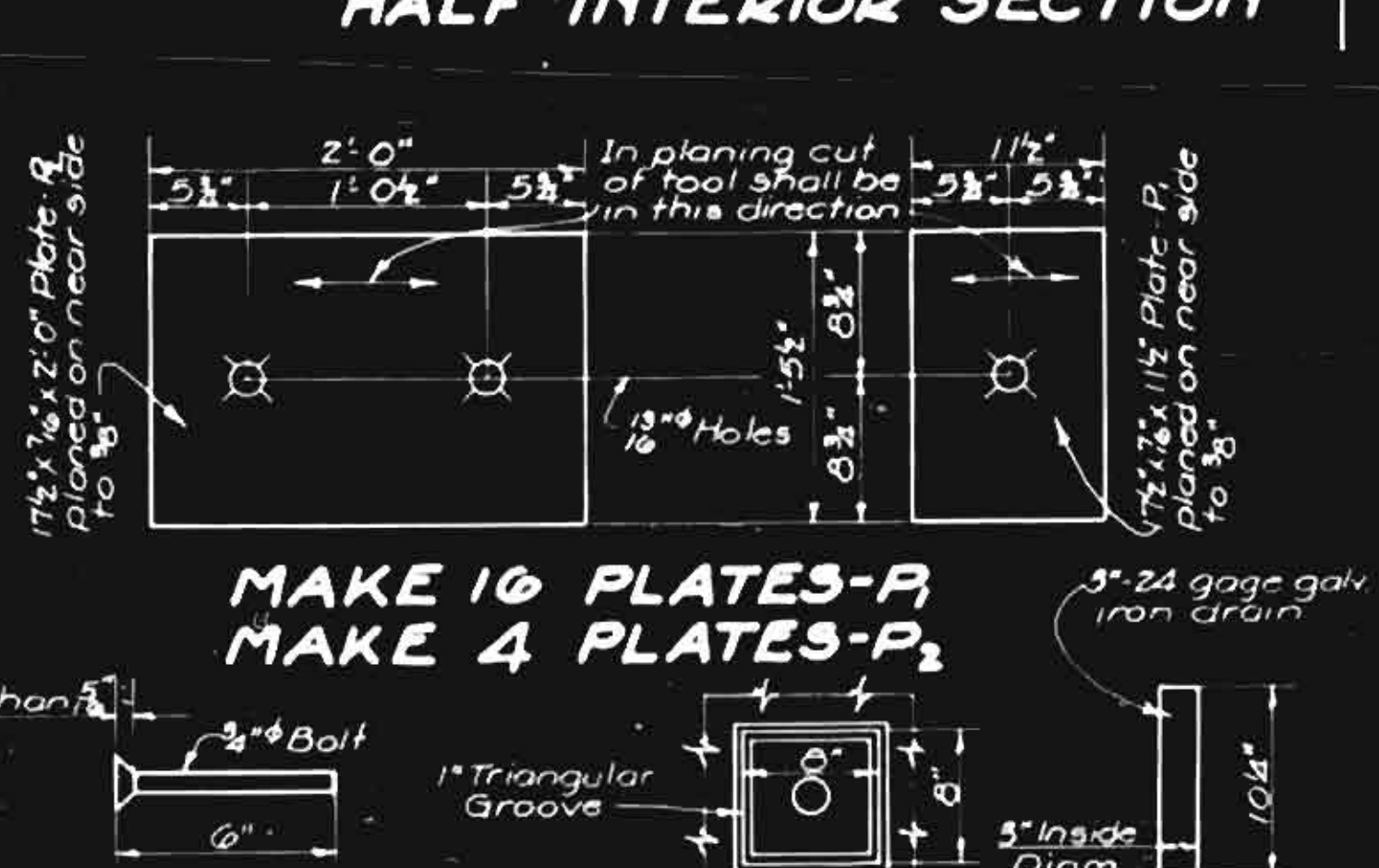
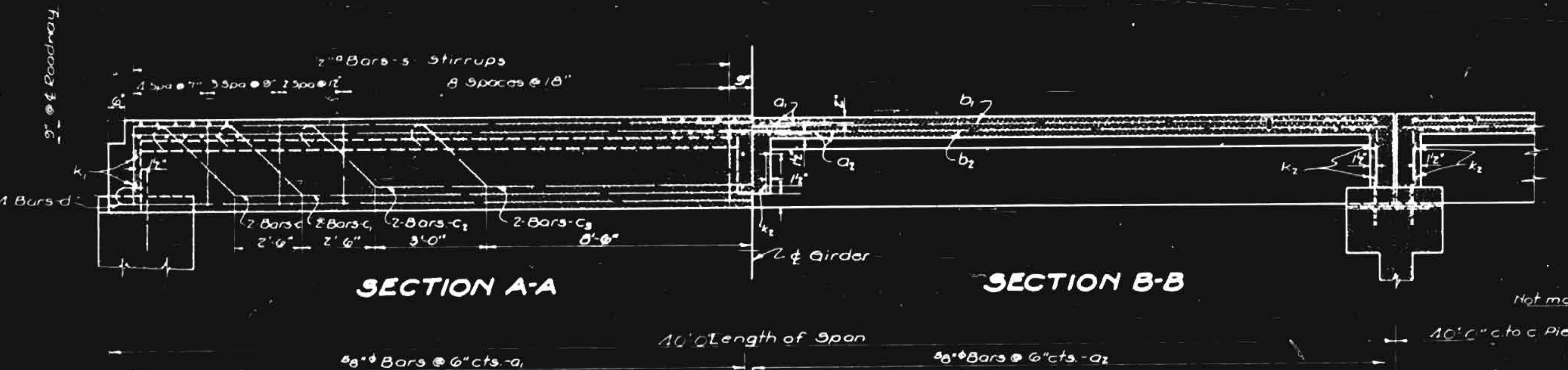
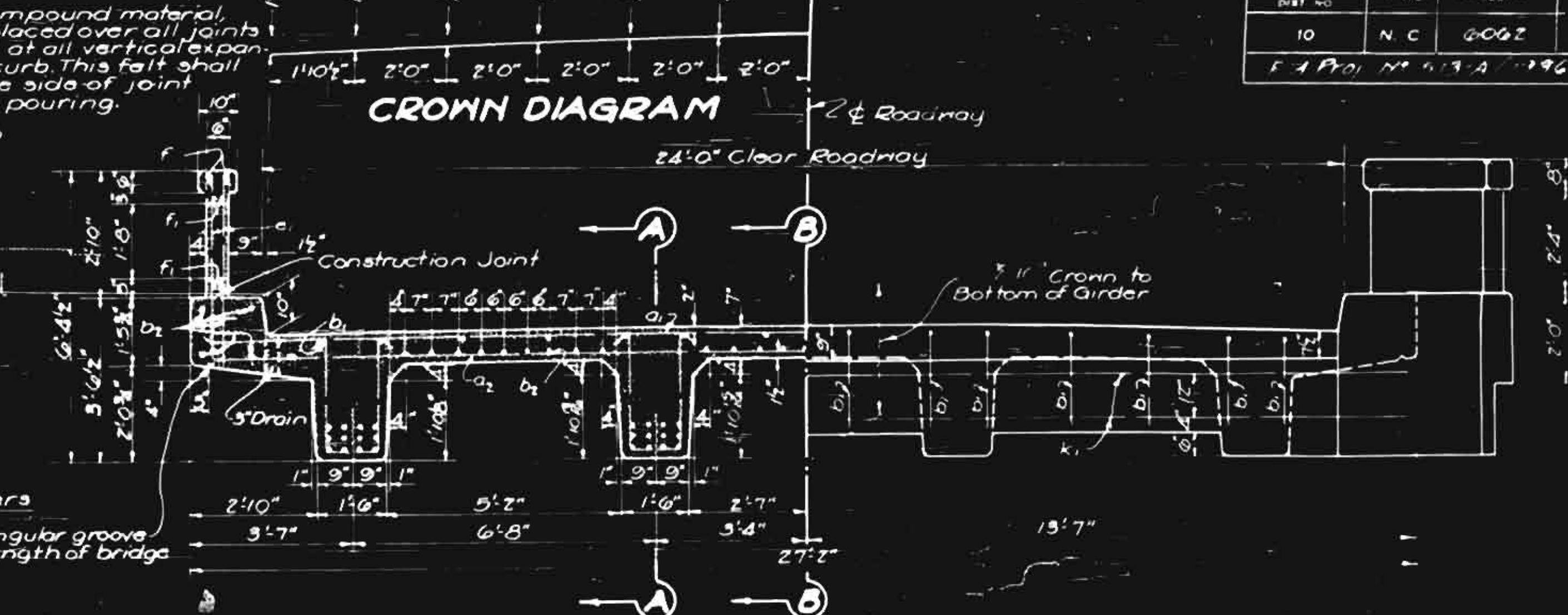
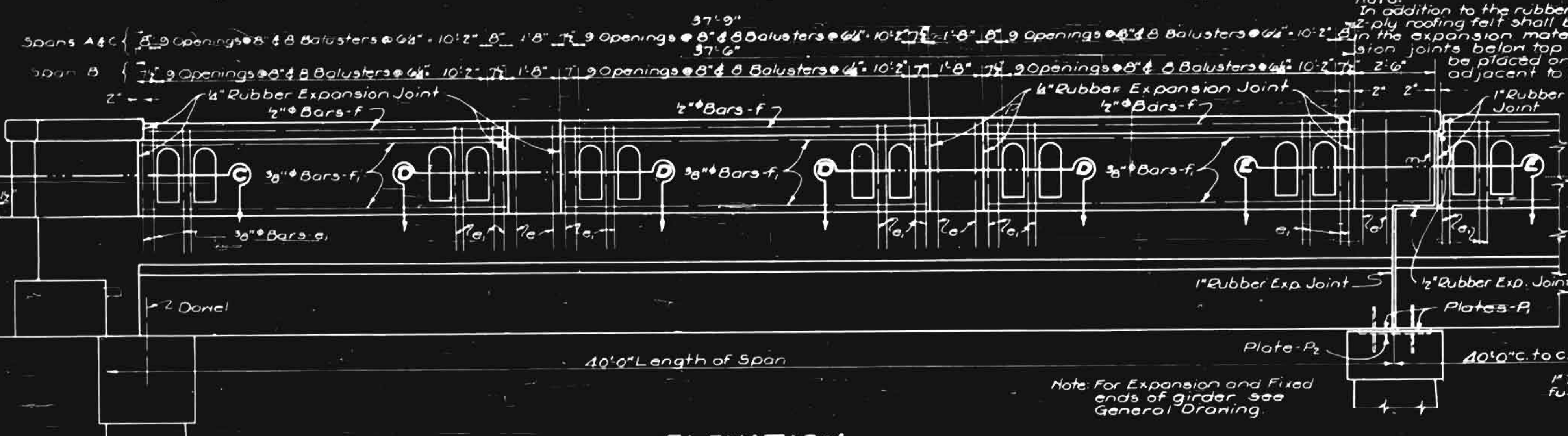
STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 SPECIAL
GENERAL DRAWING
 BRIDGE OVER
 DEADFALL CREEK
 FEBRUARY 1936

DESIGNED BY: G. W. Anderson
 CHECKED BY: F. W. Fiador
 DATE: Feb. 1936
 DATE: March 1936

B.M. on 8" Pine tree 50' Left Station 624+00. Elev. 416.56

SUBMITTED BY: [Signature]
 APPROVED BY: [Signature]
 STATE HIGHWAY ENGINEER

REV. NO.	DATE	BY	CHKD.
10	N.C.	6062	6/1/36



DESIGN DATA:

Specifications: A.A. 9 H O
Assumed Live Load: 1-15
Impact Allowance for Live Load: See Specifications
Steel in Tension: 10000 lbs per sq in
Concrete in Compression: 3000 lbs per sq in
Shear in Class "A" Concrete: 60 lbs per sq in

GENERAL NOTE

Class "A" concrete to be used thruout Maximum size of coarse aggregate to be 1 1/2" except in handrail. Maximum size of coarse aggregate in handrails above tops of curbs to be 3/4". All exposed corners of concrete to be chamfered 1" except on handrails and expansion joints. Handrail corners to be chamfered 3/4". Baluster and expansion joint corners to be chamfered 3/4". All reinforcing steel shall be deformed bars. All dimensions relative to reinforcement are to centers of bars. No splices of bars other than those shown on plans will be permitted. All reinforcing steel shall be securely held in correct position. The girders, slabs and curbs shall be poured in one operation, allowing no time for initial set to take place between them. Construction joints will be permitted only at top of curbs. Rubber compound expansion joint material shall be used thruout. See specifications. All bearing plates and bolts shall be phosphor bronze. See specifications. The name plates shall be placed on the bridge one on each right hand end post approaching the bridge. All material and workmanship shall conform to specifications of the North Carolina State Highway and Public Works Commission.

DIVISION OF CLASS "A" CONCRETE

13.3 Cu Yds Maximum Size of Coarse Aggregate 3/4"
140.6 Cu Yds Maximum Size of Coarse Aggregate 1 1/2"
173.9 Cu Yds Total.

BILL OF MATERIAL THREE SPANS

Bar	Size	Length	Weight
a1	2 1/2"	57'	7137
a2	2 1/2"	56'	5988
b1	2 1/2"	2 1/2"	1571
b2	2 1/2"	2 1/2"	4177
b3	1 1/2"	6'	86
b4	1 1/2"	7'	56
b5	1 1/2"	8'	64
b6	2 1/2"	3'	40
c	2 1/2"	41'	5292
c1	2 1/2"	36'	3769
c2	2 1/2"	50'	3176
c3	2 1/2"	24'	2256
d	4 1/2"	42'	16711
e	7'	6'	513
f	7 1/2"	4'	1083
g	4 1/2"	11'	120
h	3 1/2"	11'	265
i	7'	11'	298
j	3 1/2"	4'	86
k1	4 1/2"	2'	91
k2	8 1/2"	2'	143
m	8 1/2"	4'	25
s	4 1/2"	6'	2387

Reinforcing Steel - Lbs. 49404
Class "A" Concrete - Cu. Yds. 173.9
Plates & Bolts - Lbs. 282

**PROJECT NO. 6062
ANSON COUNTY
STATION 623+10**

STATE OF NORTH CAROLINA
STATE HIGHWAY AND PUBLIC WORKS COMMISSION

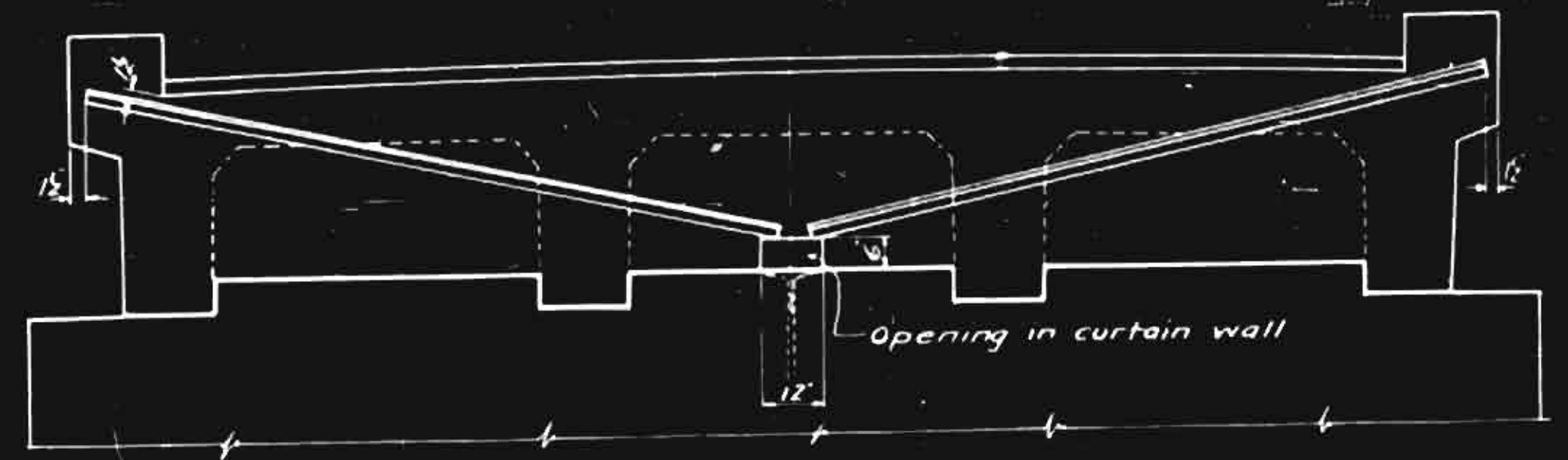
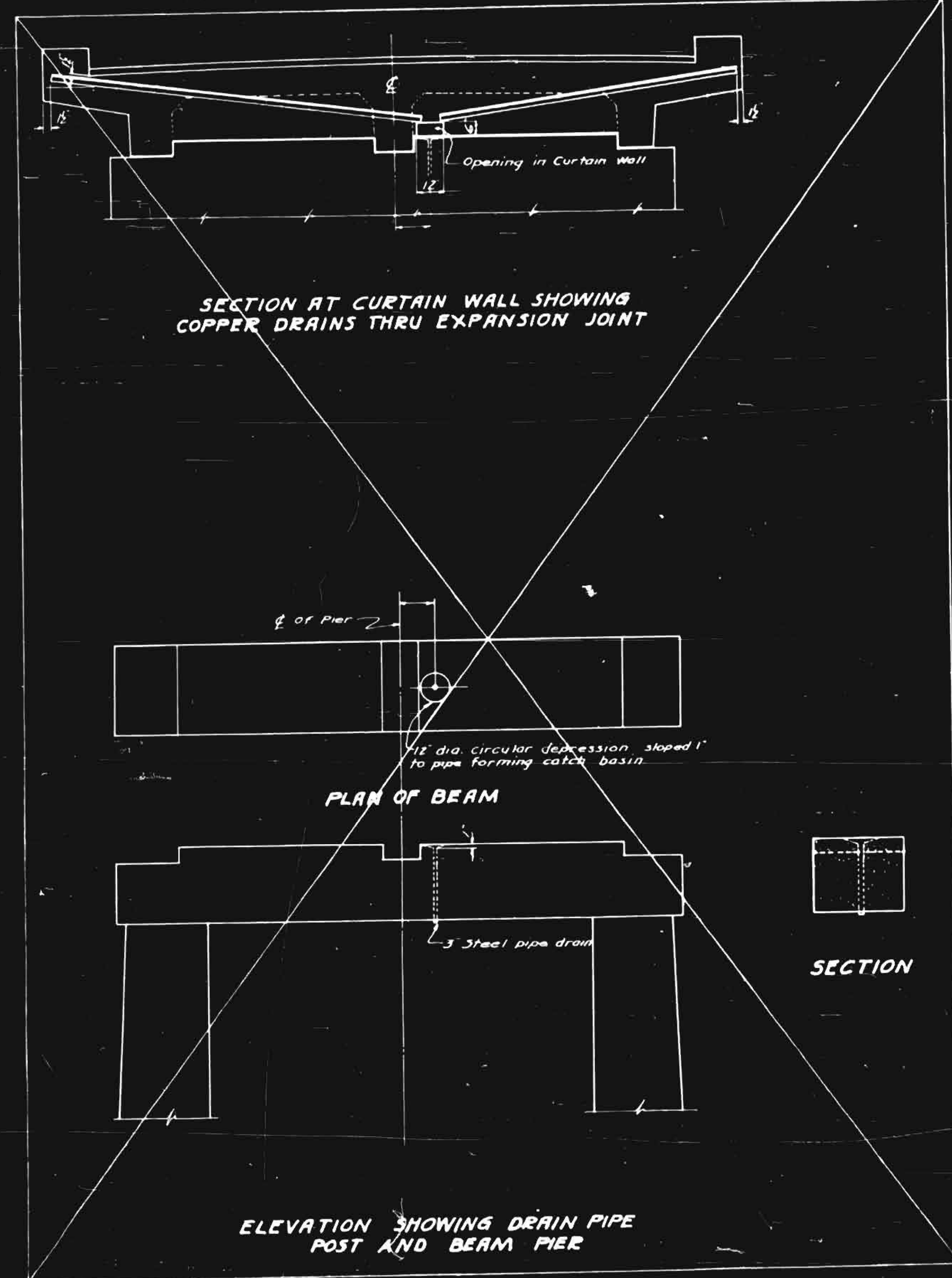
STANDARD REINFORCED CONCRETE DECK GIRDER SPAN - 24'0" ROADWAY FEBRUARY 1936

APPROVED BY: W. Van de...
DATE: Feb. 1936

SPECIAL: Approved by J. J. Swell
DATE: Feb. 1936

STANDARD: Checked by J. W. Hainl
DATE: Feb. 1936

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N. C.	6062	2	25
1 A Pgs. No 513 A (1936)				



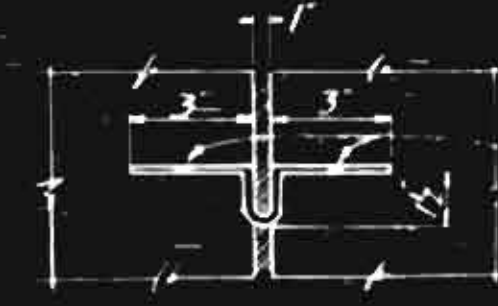
SECTION AT CURTAIN WALL SHOWING COPPER DRAINS THRU EXPANSION JOINT



PLAN OF COPING



ELEVATION SHOWING DRAIN PIPE POST AND WEB PIER



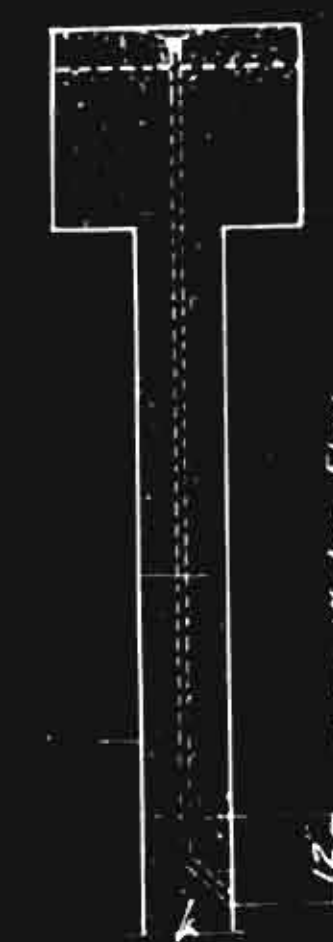
DETAIL OF COPPER DRAIN

MAKE 4 PIECES 10" x 13'-4" LONG
MAKE 2 PIECES x LONG

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

GENERAL NOTE:

Copper drains shall be placed in expansion joints between spans at all piers 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 piers or bents.



SECTION SHOWING DRAIN PIPE THRU WEB

PROJECT NO. 6062
ANSON COUNTY
STATION 623+10

STATE OF NORTH CAROLINA
STATE HIGHWAY AND
PUBLIC WORKS COMMISSION
RALEIGH

STANDARD
DETAILS SHOWING COPPER DRAINS
THRU CURTAIN WALLS
R.C. DECK GIRDER
AUGUST 1935

DESIGNED BY: W. D. ...
CHECKED BY: W. D. ...

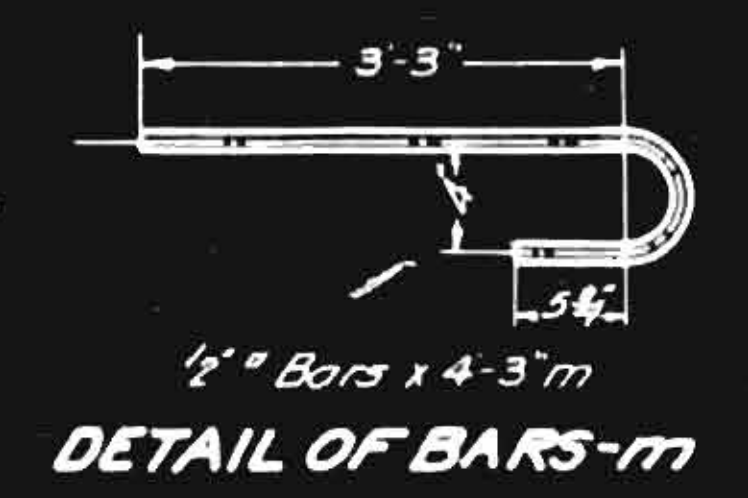
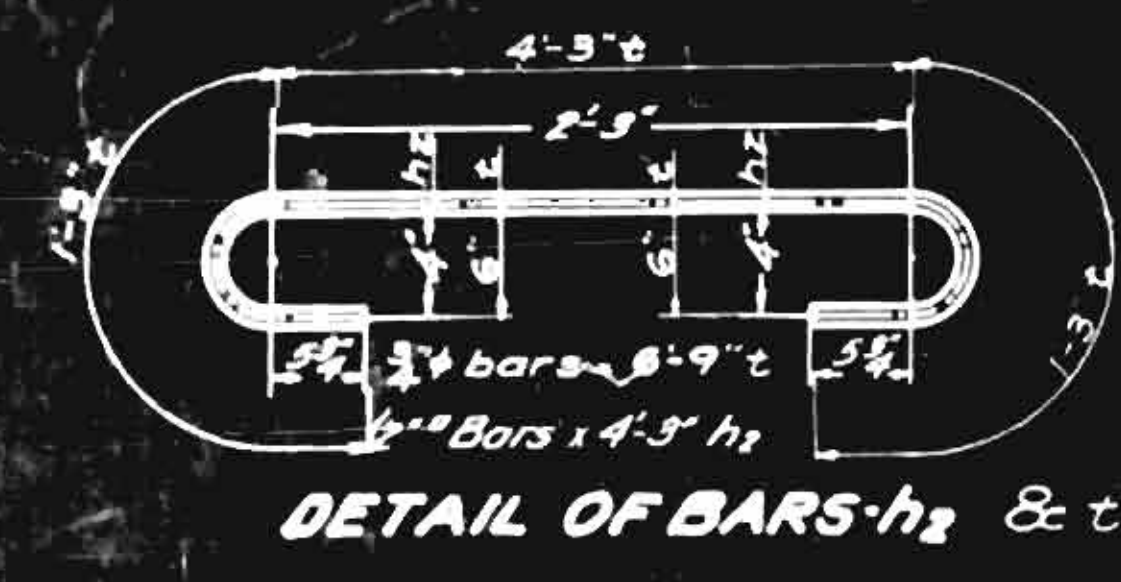
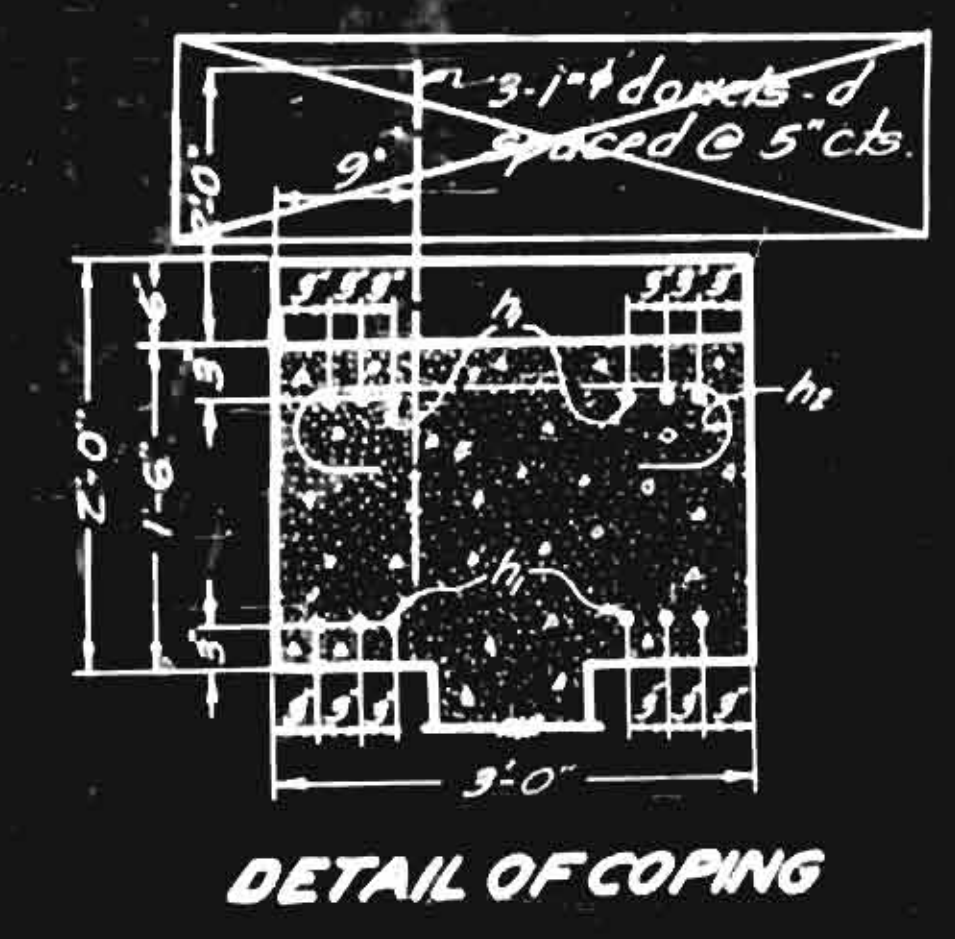
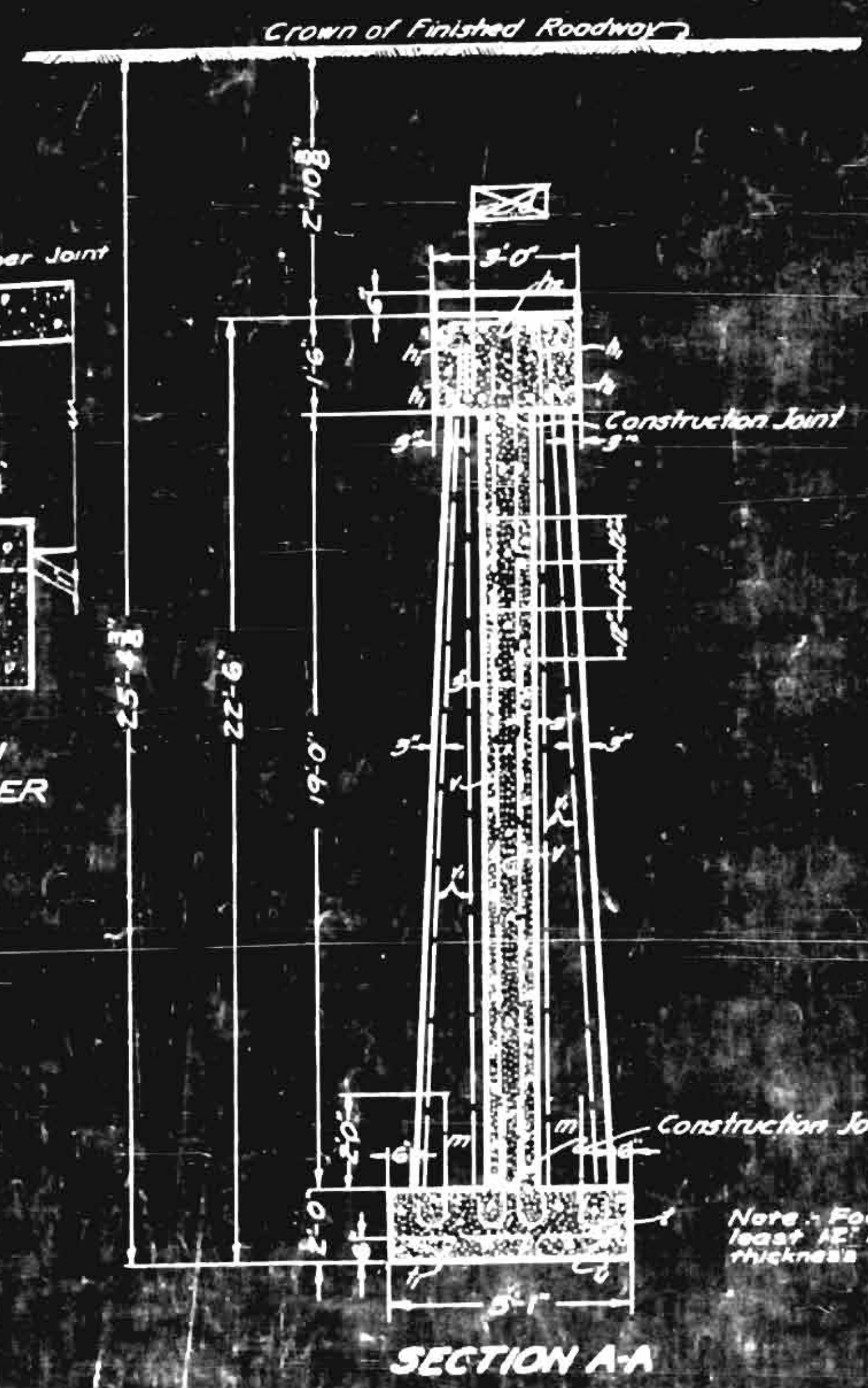
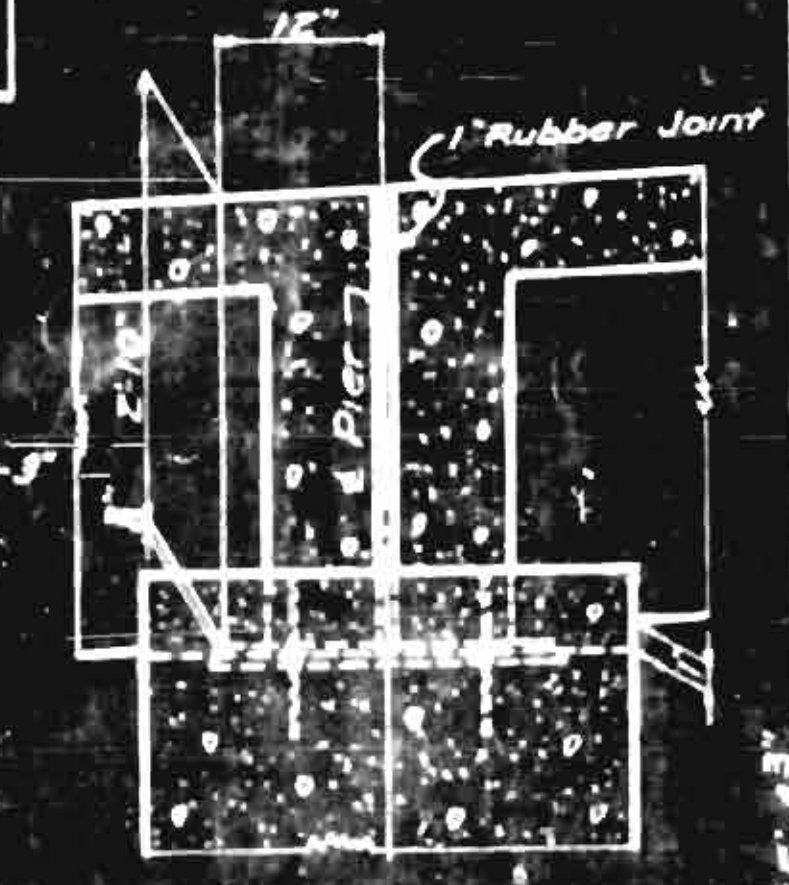
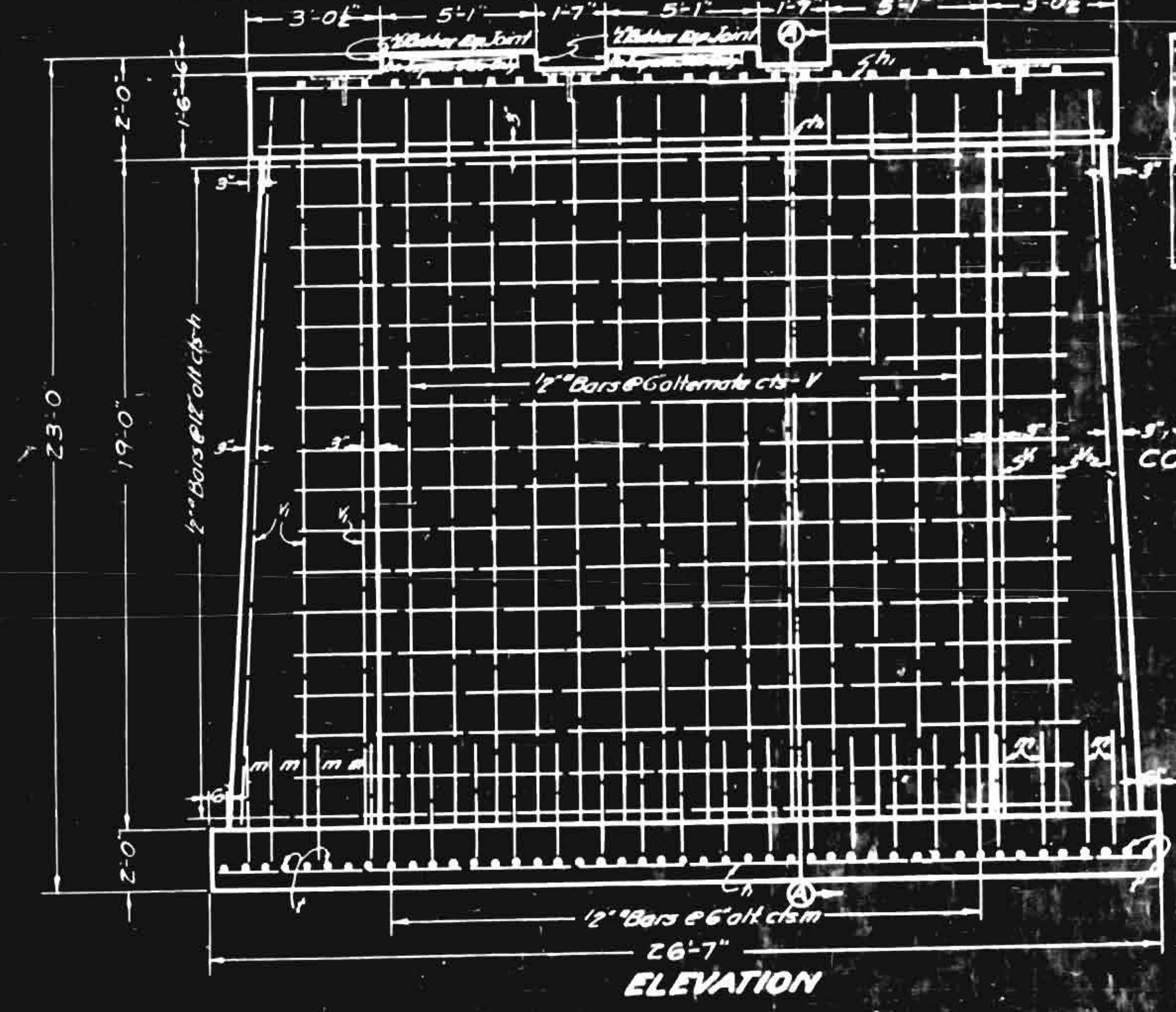
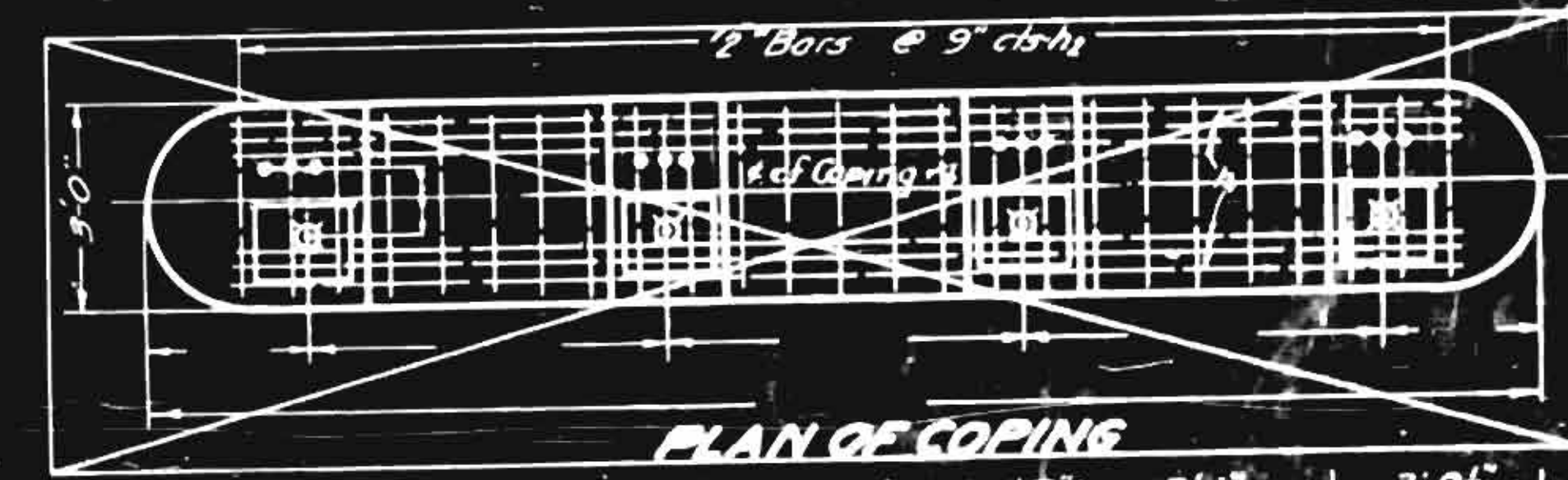
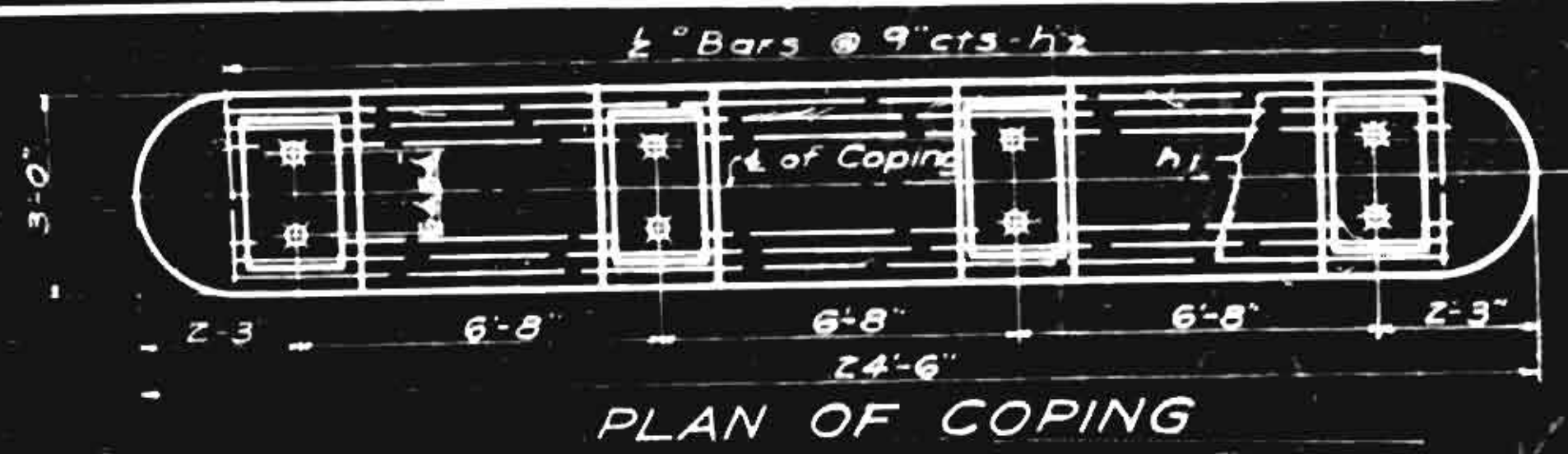
PLAN NO.

SPECIAL	APPROVED BY: C. ...	DATE: Feb 1936
	CHECKED BY: S. O. ...	DATE: Feb. 1936
STANDARD	DRAWN BY: A. L. BARBER & B. S. JENNINS	DATE: Feb. 25 & Aug. 25
	TRACED BY: B. S. ...	DATE: Aug. 1935
	CHECKED BY: E. W. ...	DATE: Aug. 1935

Redrawn August 22, 1935. B.S.J.

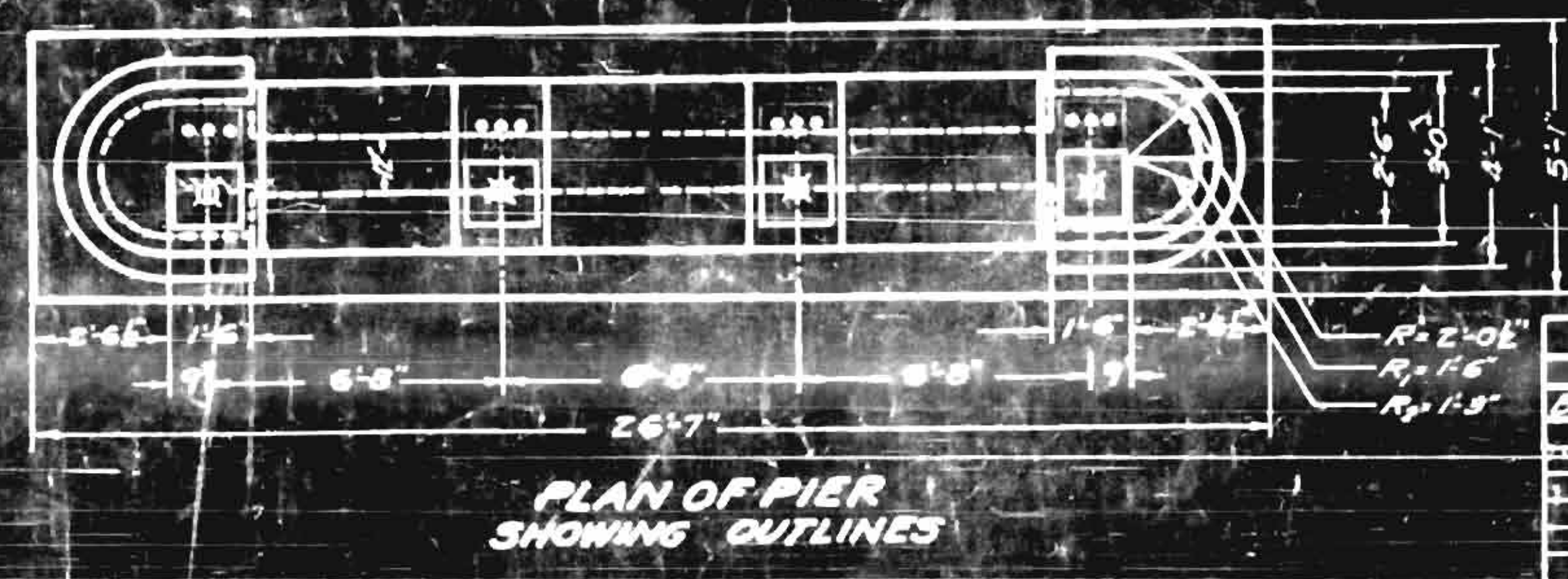
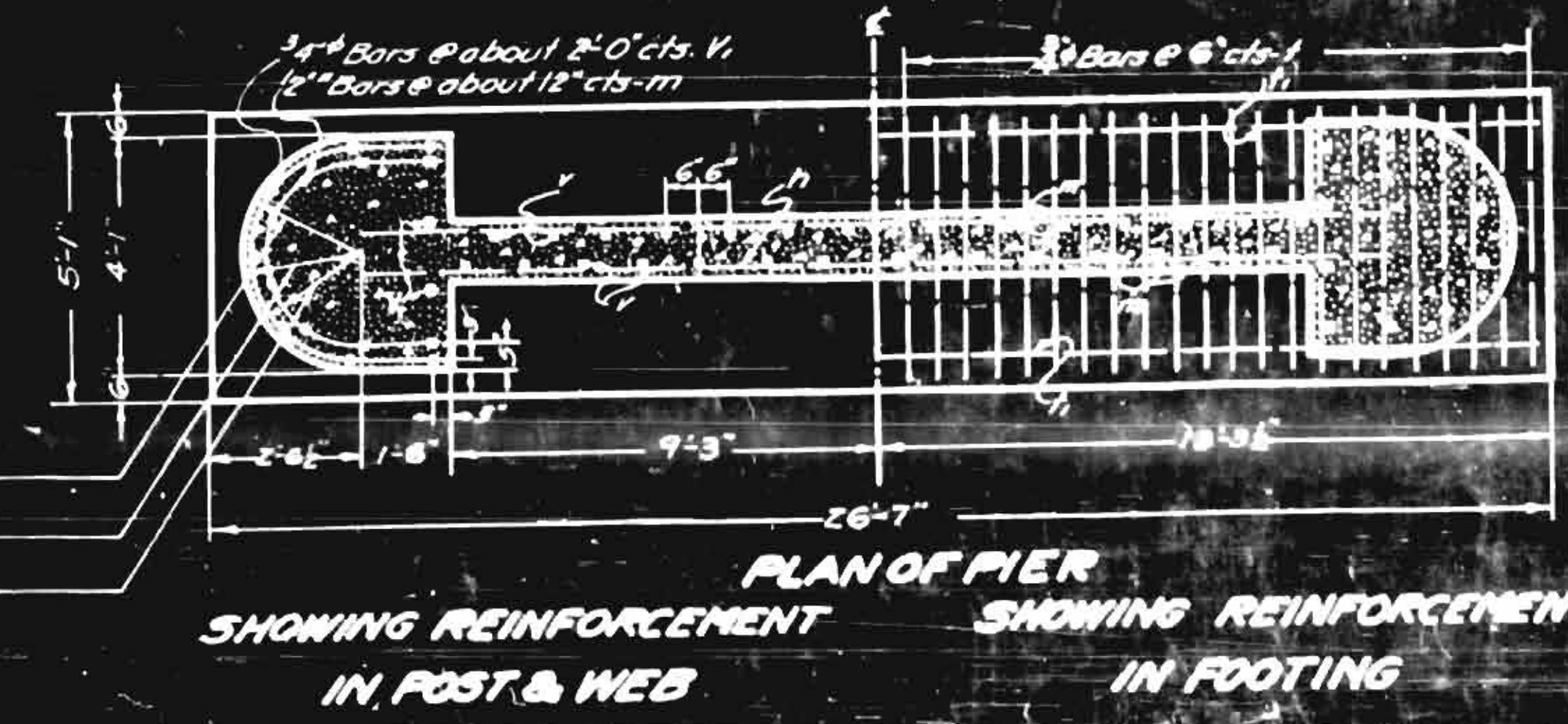
FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N. C.	606Z	123	123

F.A. Proj. No. 513-A (1936)



DESIGN DATA
 Specifications NC State Highway & Public Works Commission
 Assumed Live Load H-15
 Steel in Tension 18000 Lbs per sq in
 Concrete in Compression 800 Lbs per sq in
 Concrete in Shear 60 Lbs per sq in
 This design is based on the net areas of bars as follows:
 1/2" = 0.280 sq in, 3/4" = 0.442", 7/8" = 0.601"

GENERAL NOTE
 Class A Concrete to be used throughout. Maximum size of coarse aggregate to be 1 1/2".
 All reinforcing steel to be deformed bars.
 All dimensions relative to reinforcement are to centers of bars.
 No splices of bars other than those shown on plans will be permitted.
 All corners to be chamfered 1".
 The following extra bars are provided for holding reinforcement in correct position: #1.
 All material and workmanship as per specifications of the North Carolina State Highway and Public Works Commission.



PROJECT NO. 606Z
 ANSON COUNTY
 STATION 623+10
 PIER NO. 1

BILL OF MATERIAL

ITEM NO.	Size	Length	Weight
V	3/4"	20'-3"	657
VI	1/2"	29'-3"	426
VII	1/2"	22'-9"	368
VIII	1/2"	21'-6"	527
IX	1/2"	4'-3"	128
X	1/2"	4'-3"	213
XI	1/2"	6'-4"	557
XII	1/2"	12'-0"	48
Reinforcing Steel Lbs.			2884
Concrete Class A Cu Yds.			40.8
Piles No.			
Comp. depth of footing 5.0 Cu Yds.			
Piles @ 50 lbs Lbs.			196

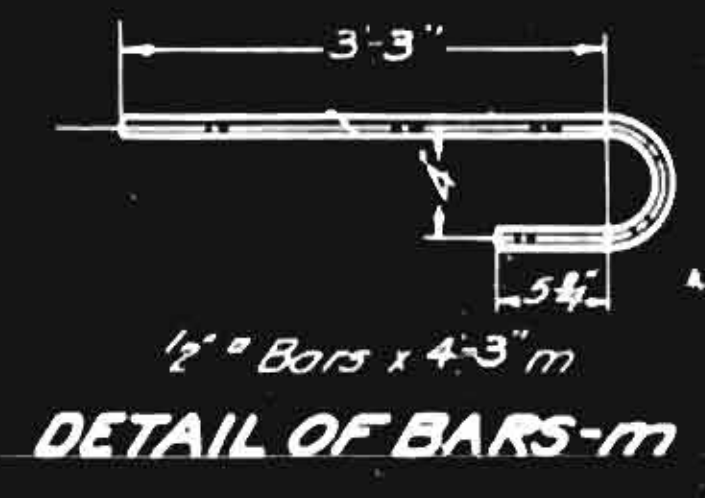
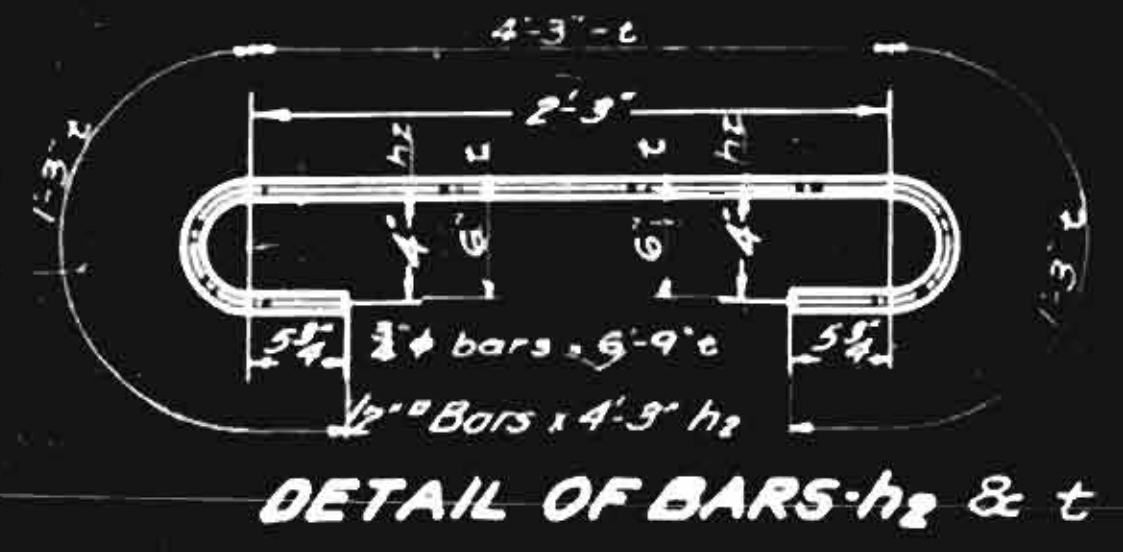
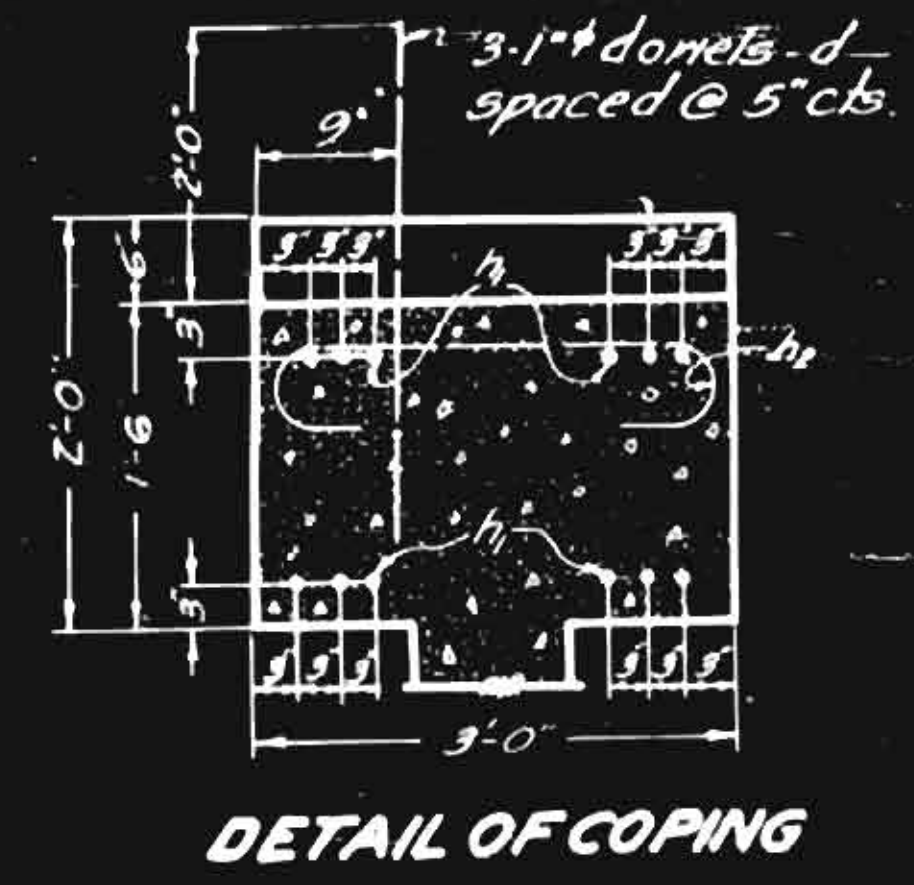
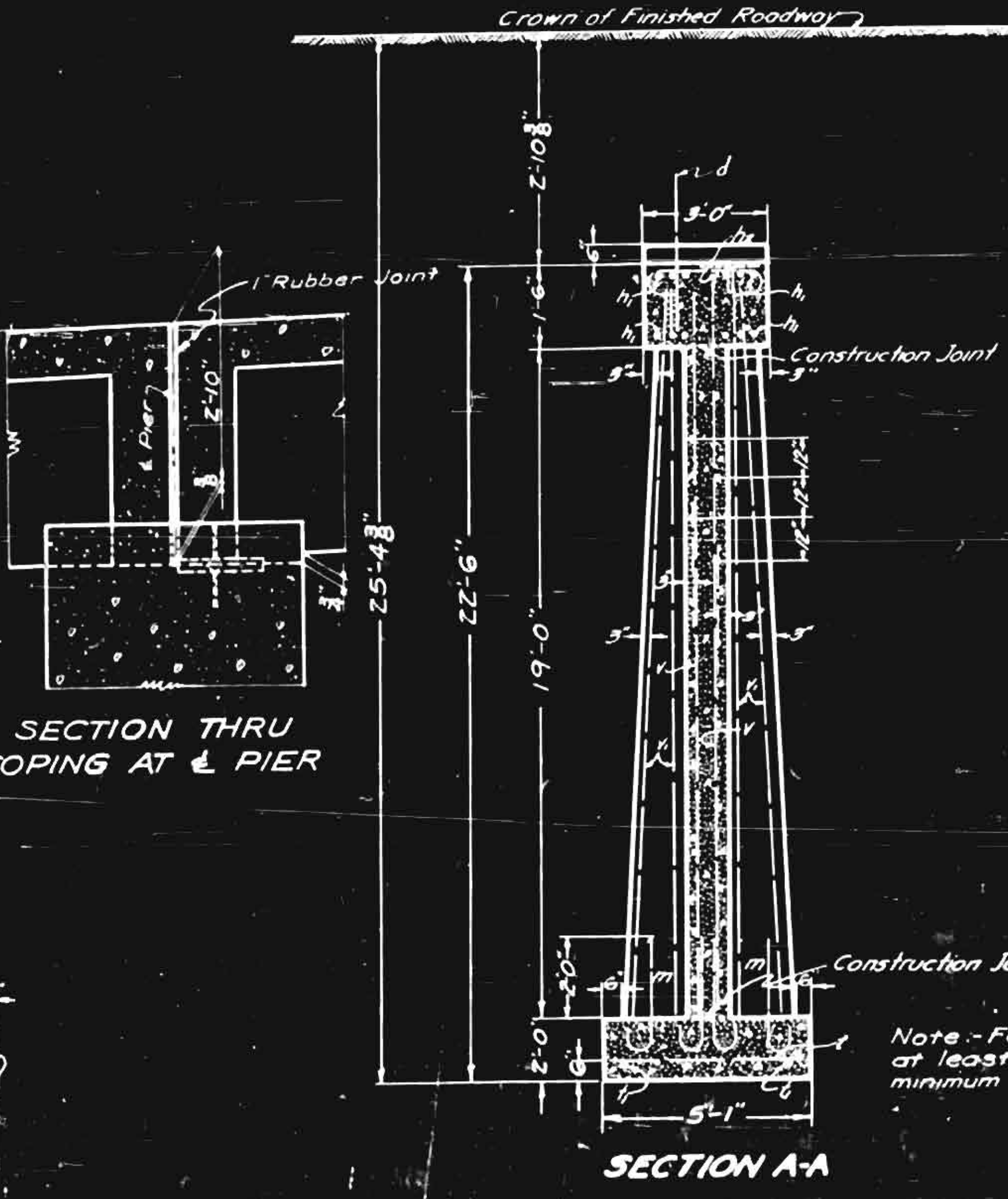
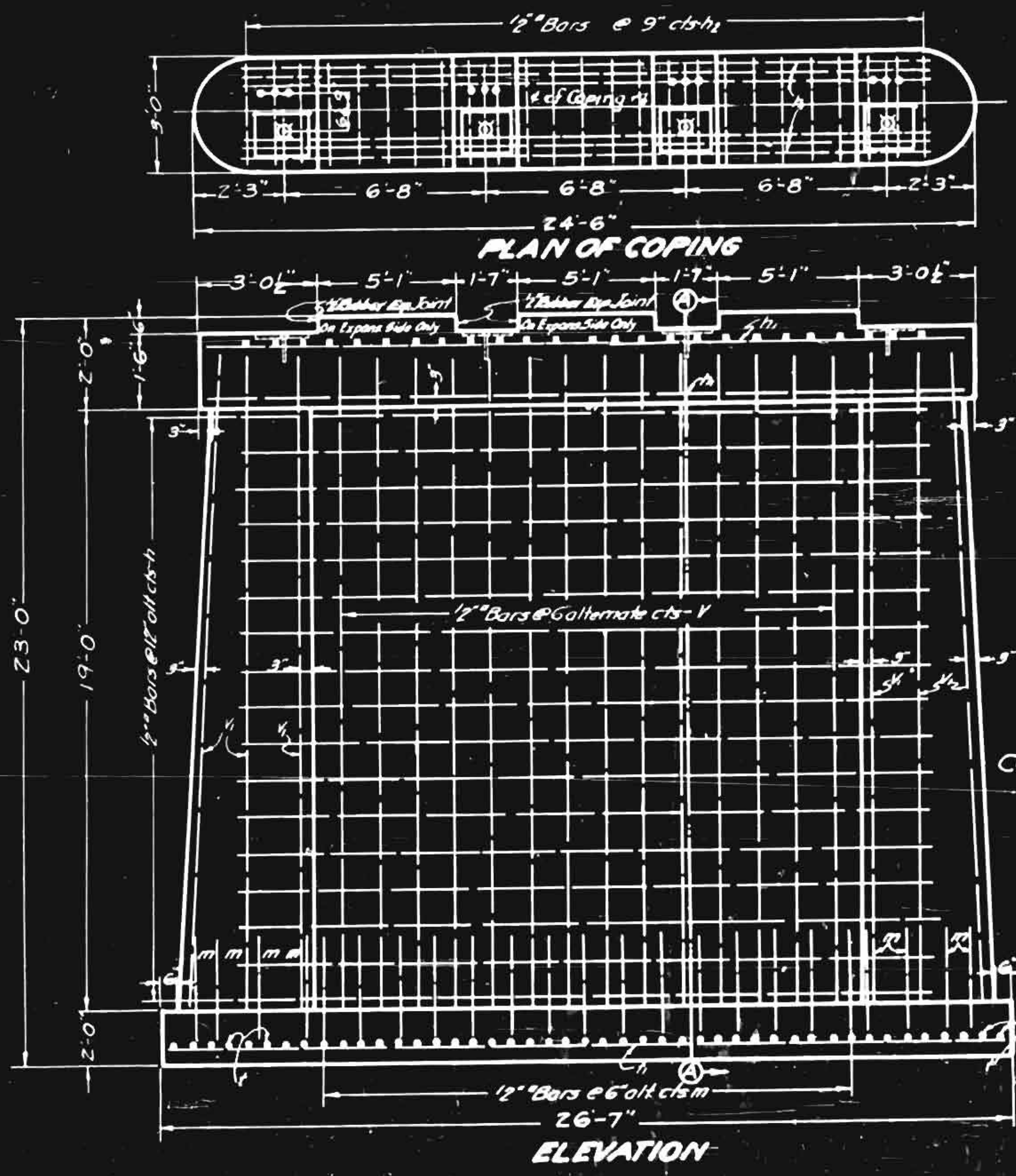
STATE OF NORTH CAROLINA
 STATE HIGHWAY & PUBLIC WORKS COMM.
 STANDARD
 R.C. PIER DETAILS
 FOR
 R.C. DECK GIRDERS
 FEBRUARY 1931

W. L. ...
 J. H. ...

PLAN NO.

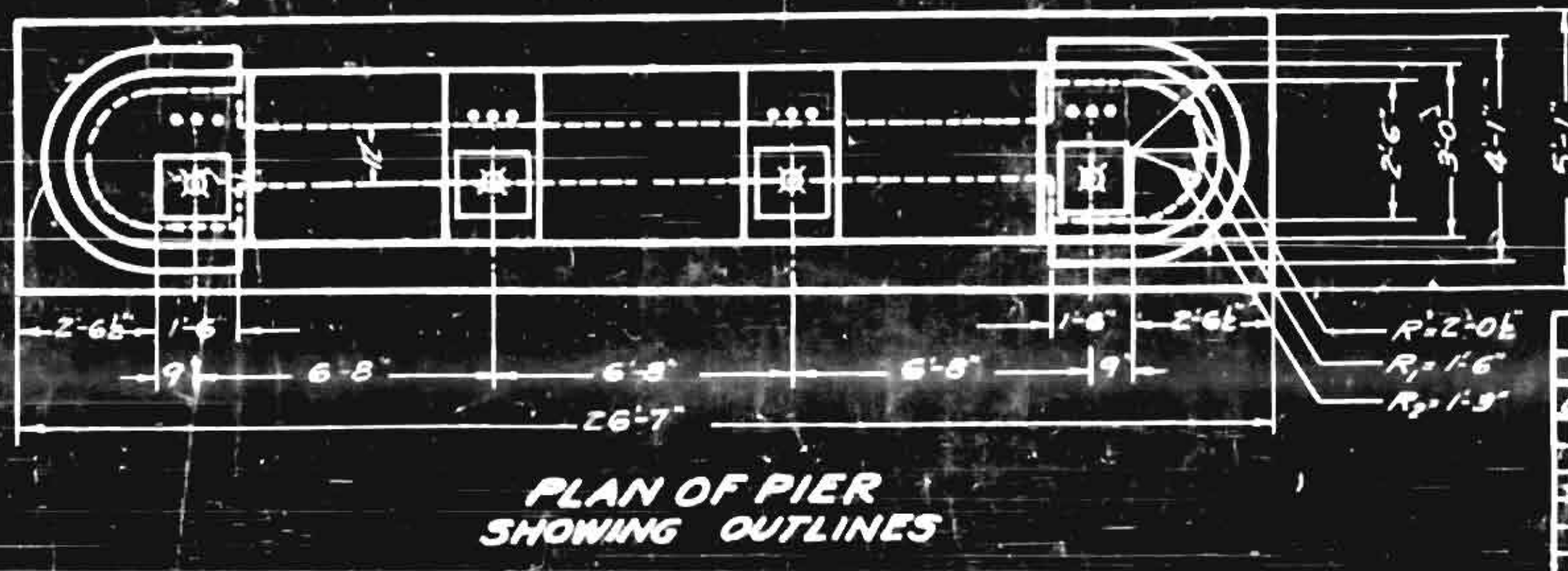
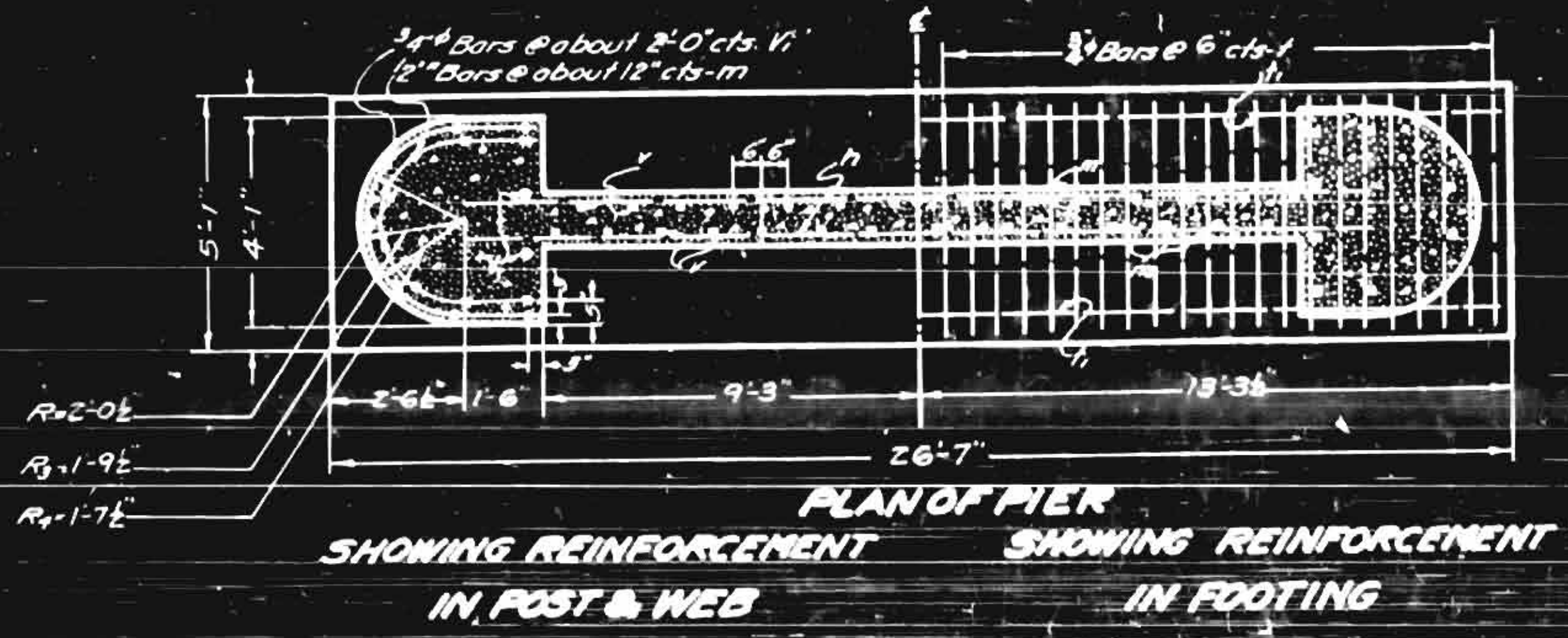
SPECIAL	DESIGNED BY	DATE
	Robert A. Deal	JUN 1931
STANDARD	TRACED BY	DATE
	W. L. ...	FEB 1931

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N. C.	606Z	12A	125
F.A. Proj. No. 513-A (1936)				



DESIGN DATA
 Specifications NC State Highway & Public Works Commission
 Assumed Live Load H-15
 Steel in Tension 18000 Lbs per sq in
 Concrete in Compression 800 Lbs per sq in
 Concrete in Shear 60 Lbs per sq in
 This design is based on the net areas of bars as follows
 $1/2'' = 0.250 \text{ sq in}$, $3/4'' = 0.442''$, $1'' = 0.601''$

GENERAL NOTE
 Class A Concrete to be used throughout. Maximum size of coarse aggregate to be 1/2".
 All reinforcing steel to be deformed bars.
 All dimensions relative to reinforcement are to centers of bars.
 No splices of bars other than those shown on plans will be permitted.
 All corners to be chamfered 1".
 The following extra bars are provided for holding reinforcement in correct position: 2#.
 All material and workmanship as per specifications of the North Carolina State Highway and Public Works Commission.



BILL OF MATERIAL

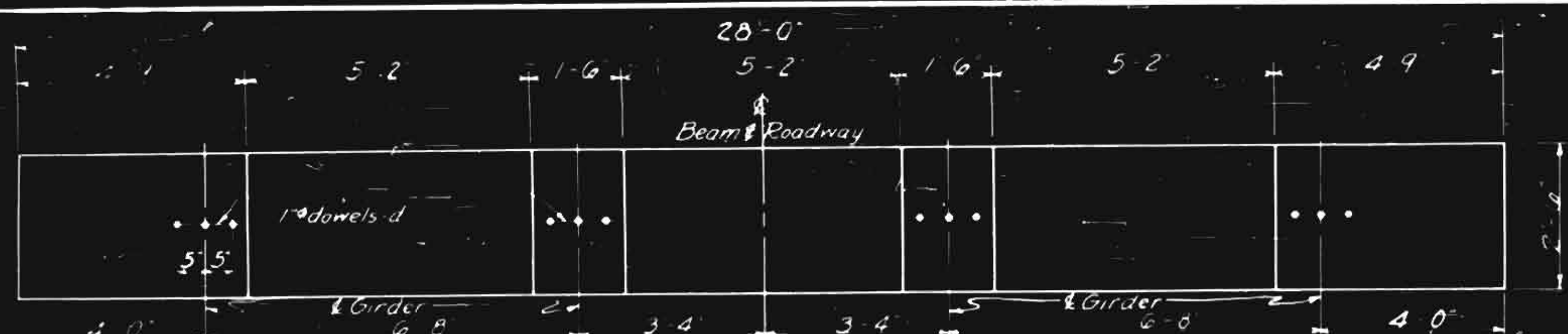
BAR NO.	SIZE	LENGTH	WEIGHT
1	1/2"	20-3'	637
2	1/2"	20-3'	426
3	1/2"	12-0'	104
4	1/2"	22-7'	368
5	1/2"	21-6'	327
6	1/2"	4-9'	108
7	3/4"	4-9'	219
8	3/4"	4-9'	187
9	3/4"	12-0'	48
Reinforcing Steel Lbs			2169
Concrete Class A Cu Yds			40.8
Piles - NIP			
Concrete depth of footing 5.0 Cu Yds			
Plates & Bolts Lbs			24

PROJECT NO. 606Z
 ANSON COUNTY
 STATION 623+10
 PIER NO. 2

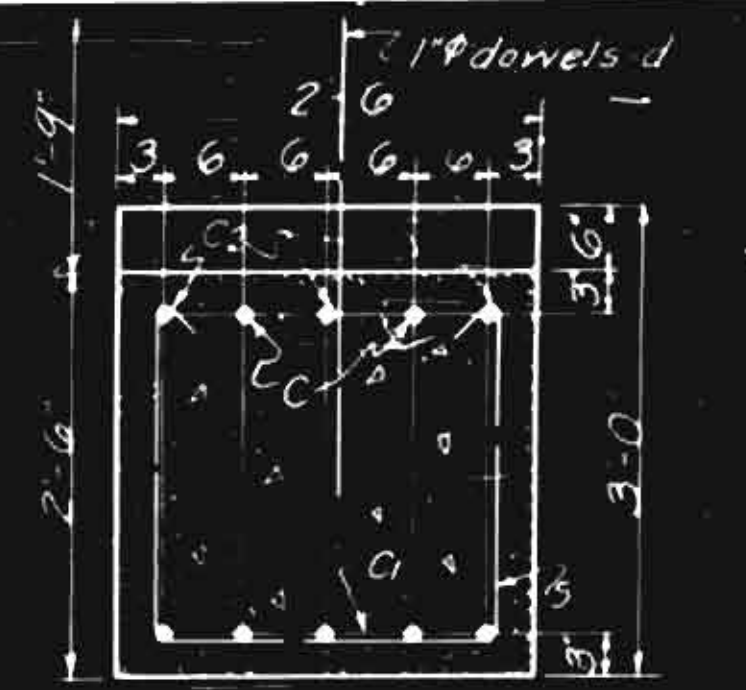
STATE OF NORTH CAROLINA
 STATE HIGHWAY & PUBLIC WORKS COMMISSION
STANDARD
 R.C. PIER DETAILS
 FOR
 R.C. DECK GIRDERS
 FEBRUARY 1931

SPECIAL	APPROVED BY	DATE
	CHECKED BY	DATE
STANDARD	DESIGNED BY	DATE
	DRAWN BY	DATE
	TRACED BY	DATE
	CHECKED BY	DATE

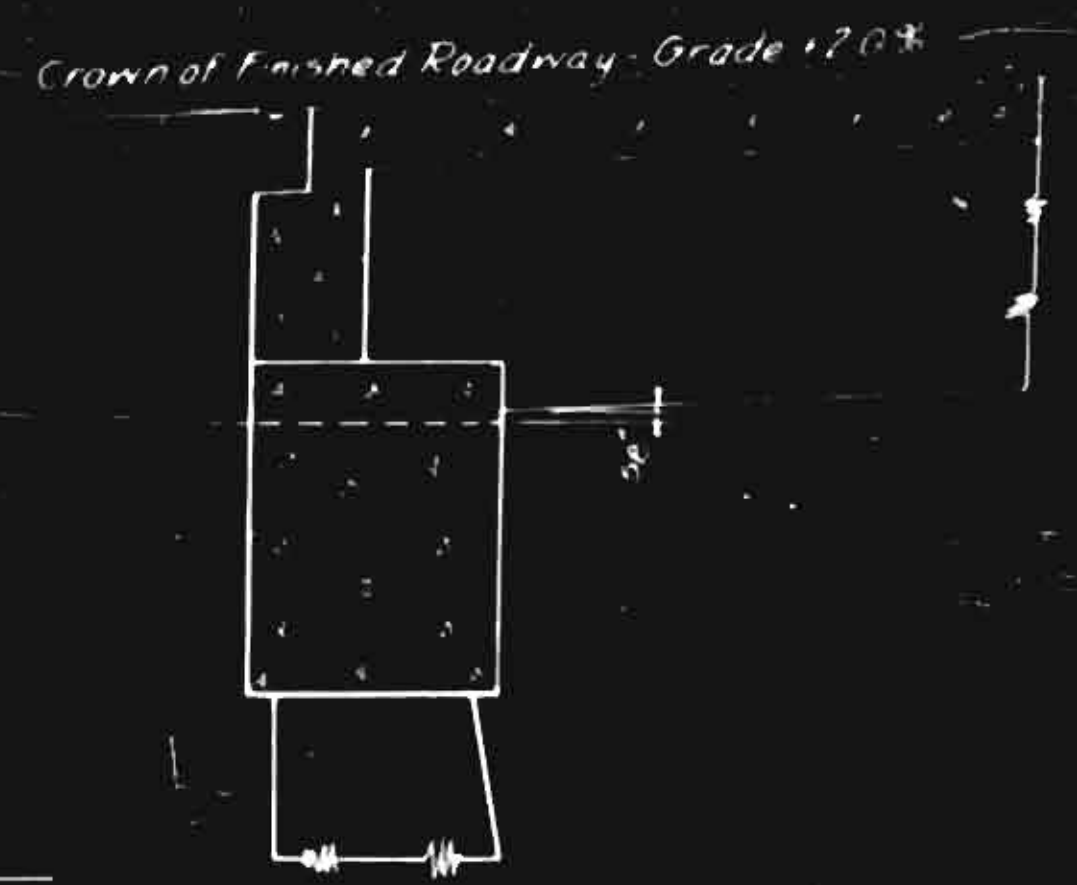
ED. NO.	10	Y.C.	6062	SHEET	NO.	1	TOTAL SHEETS	1
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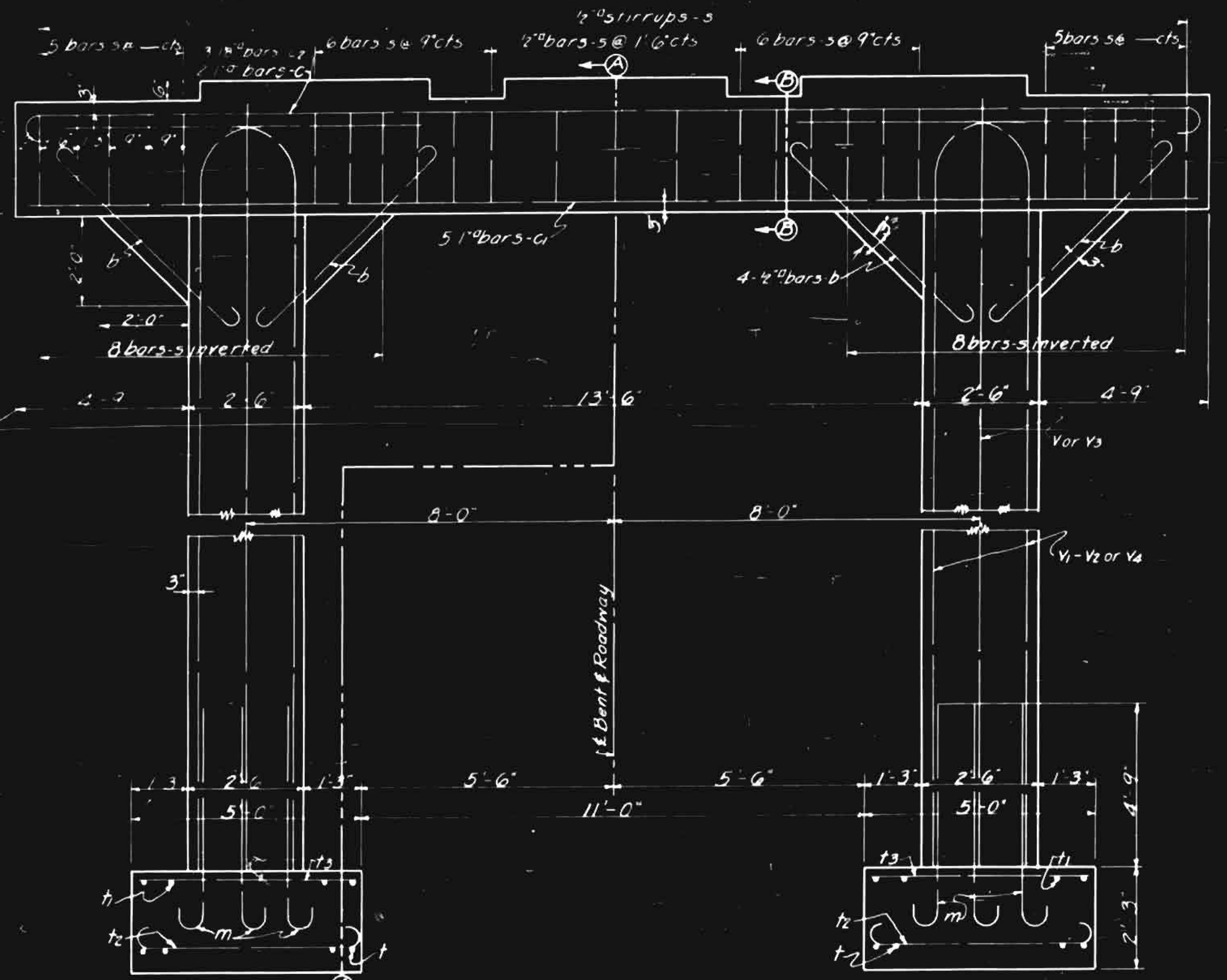
PLAN OF BEAM



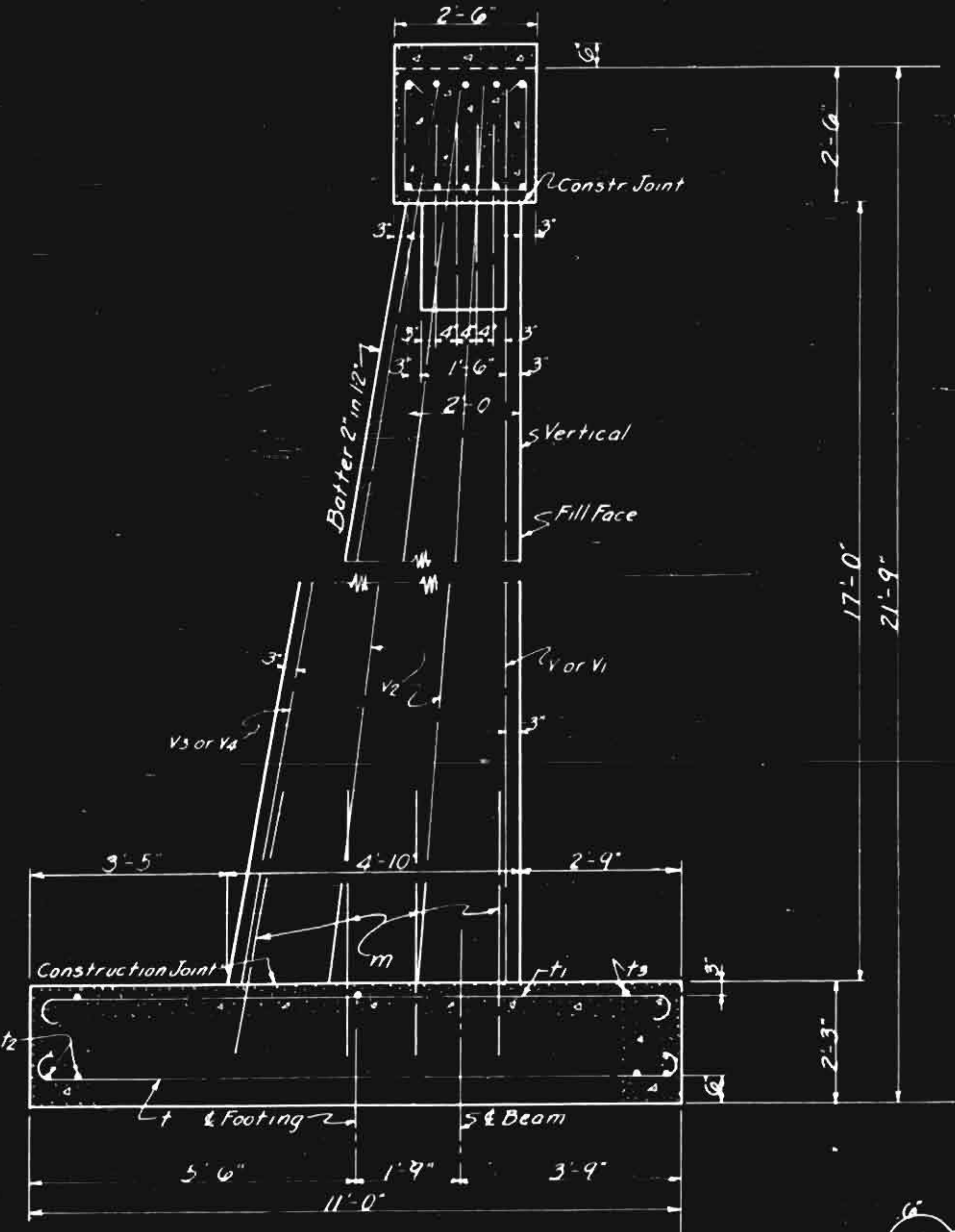
SECTION B-B



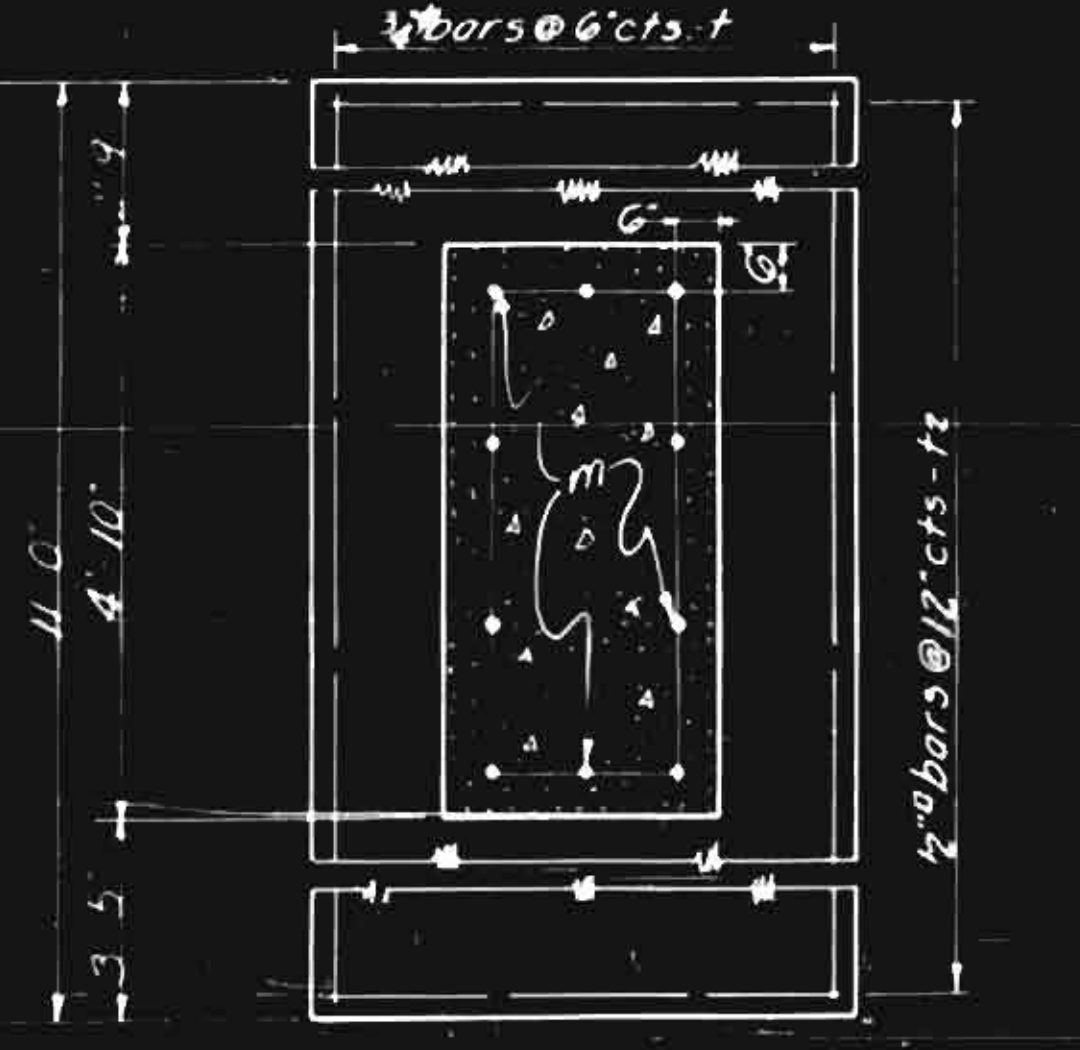
VIEW SHOWING JUNCTION WITH SUPERSTRUCTURE



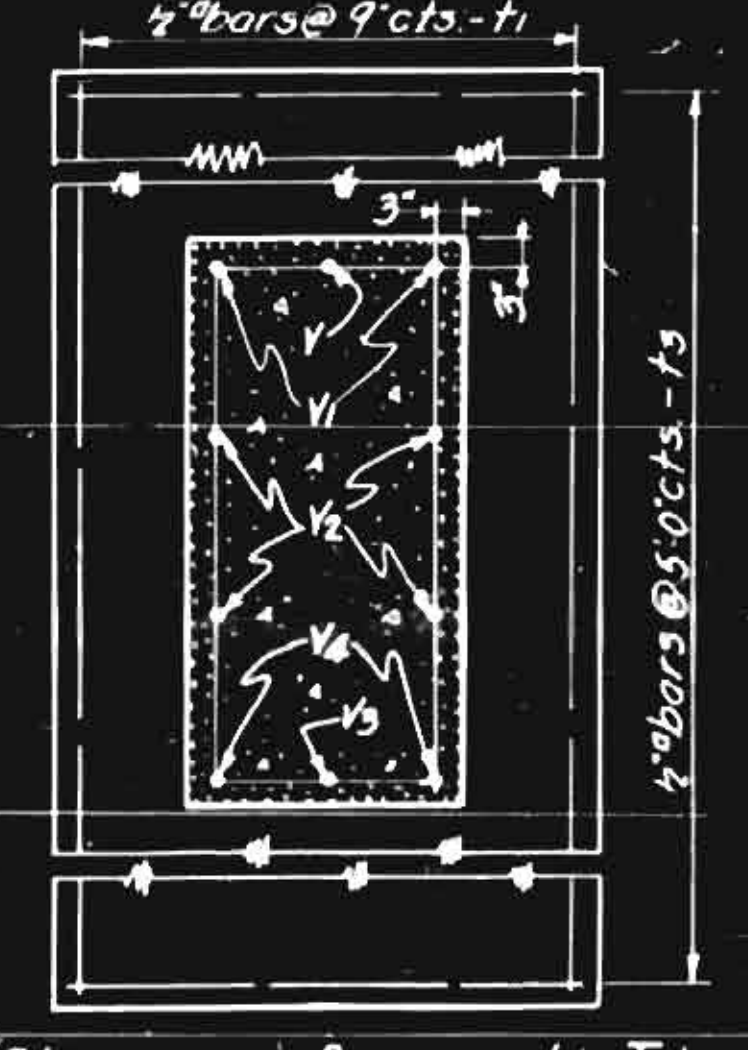
ELEVATION



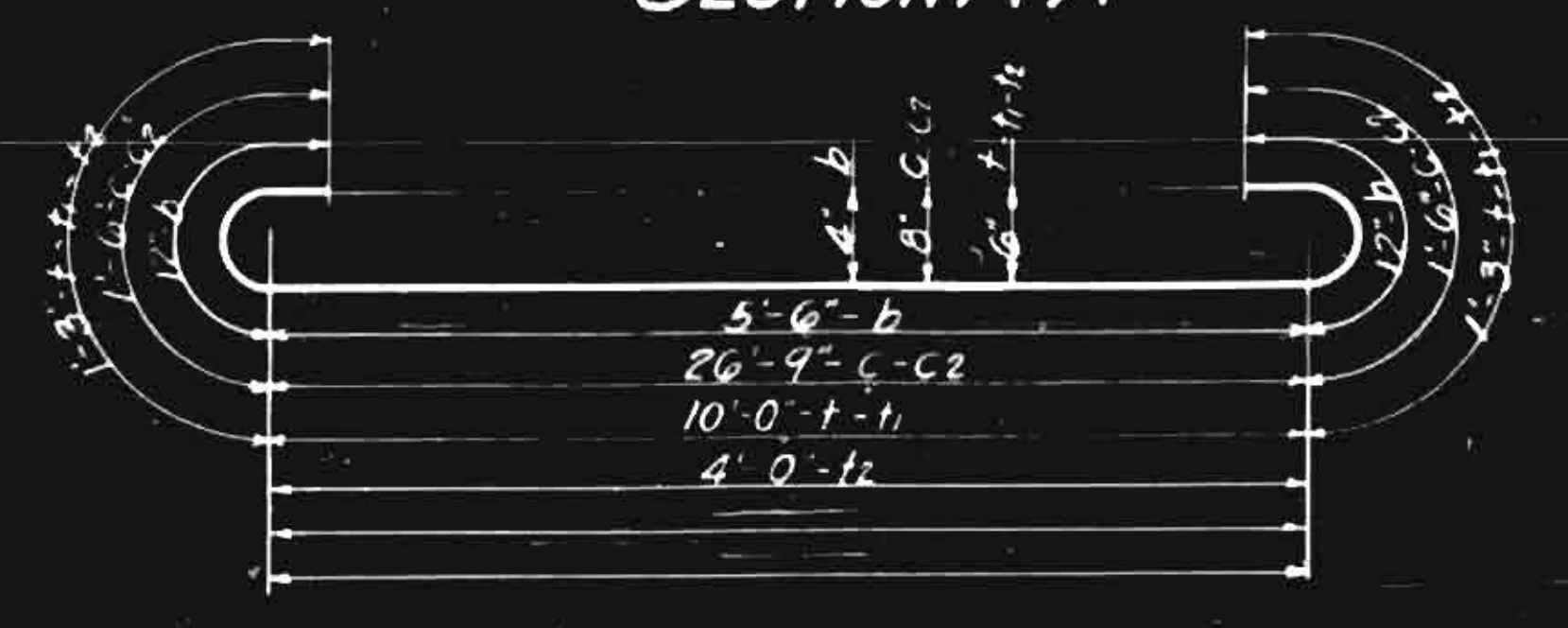
SECTION A-A



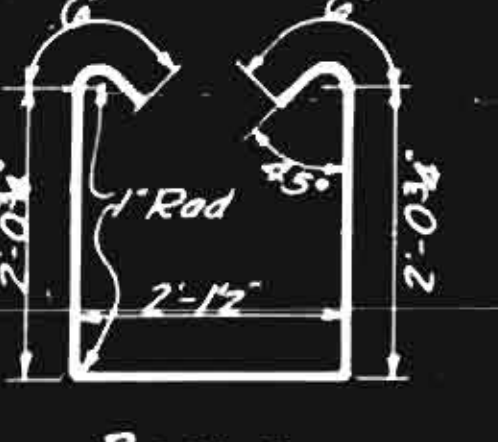
PLAN OF FOOTING



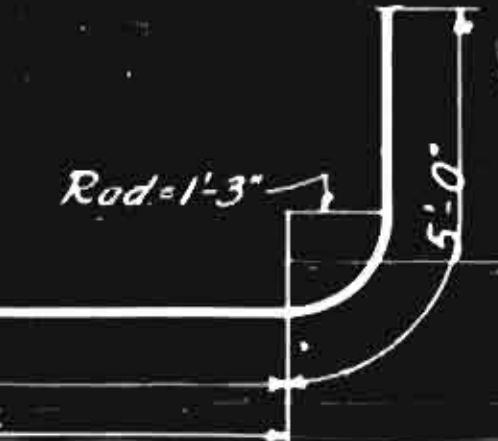
Showing reinforcement in Top



Bars b-c-c2-t1-t2



Bars-s



Bars-v-v4



Bars m

DESIGN DATA
 Specifications: A.A.S.H.O.
 Assumed Live Load: H-15
 Steel in Tension: 16,000 lbs per sq in
 Concrete in Compression: 900 lbs per sq in
 Shear in Class A Concrete: 60 lbs per sq in
 Equivalent Fluid Pressure of Earth: 30 lbs per cu ft

GENERAL NOTE
 Class A concrete shall be used throughout.
 Maximum size of coarse aggregate to be 1/4".
 All exposed corners to be chamfered 1".
 All reinforcing steel to be deformed bars. All dimensions relative to reinforcement are to centers of bars. No splices of bars other than those shown on plans will be permitted. All bars shall be securely held in correct position. No construction joints will be permitted other than those shown on plans. All material and workmanship as per the North Carolina State Highway and Public Works Commission.

The following extra bars are provided to hold reinforcing steel in correct position: 6 #4

BILL OF MATERIAL BENT NO. 1				
Bar No.	Size	Length	Weight	
b	1/2"	7'-6"	102	
c	1"	29'-9"	202	
c1	5/8"	27'-6"	468	
c2	3/4"	29'-4"	304	
d	1"	3'-6"	112	
m	20	15"	7'-6"	646
s	25	1/2"	7'-3"	154
t	20	3/4"	12'-6"	376
t1	14	1/2"	12'-6"	149
t2	22	1/2"	6'-6"	122
t3	6	1/2"	4'-6"	23
v	2	1 1/2"	19'-3"	166
v1	4	1 1/2"	22'-9"	392
v2	8	1"	19'-3"	524
v3	2	1"	19'-6"	133
v4	4	1"	23'-0"	313
Reinforcing Steel - lbs.			4266	
Concrete Class A - cu yds.			27.6	
Conc. per ft depth one footing cu yds.			2.0	

PROJECT NO. 6062
 ANSON COUNTY
 STATION 623+10
 END BENT NO. 1

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 STANDARD
 R.C. END BENT
 FOR DECK GIRDER BRIDGES

FEBRUARY, 1936

SUBMITTED BY: W. T. Kram
 APPROVED BY: W. Vance Rouse
 STATE HIGHWAY ENGINEER

STD No. F. B. 6062

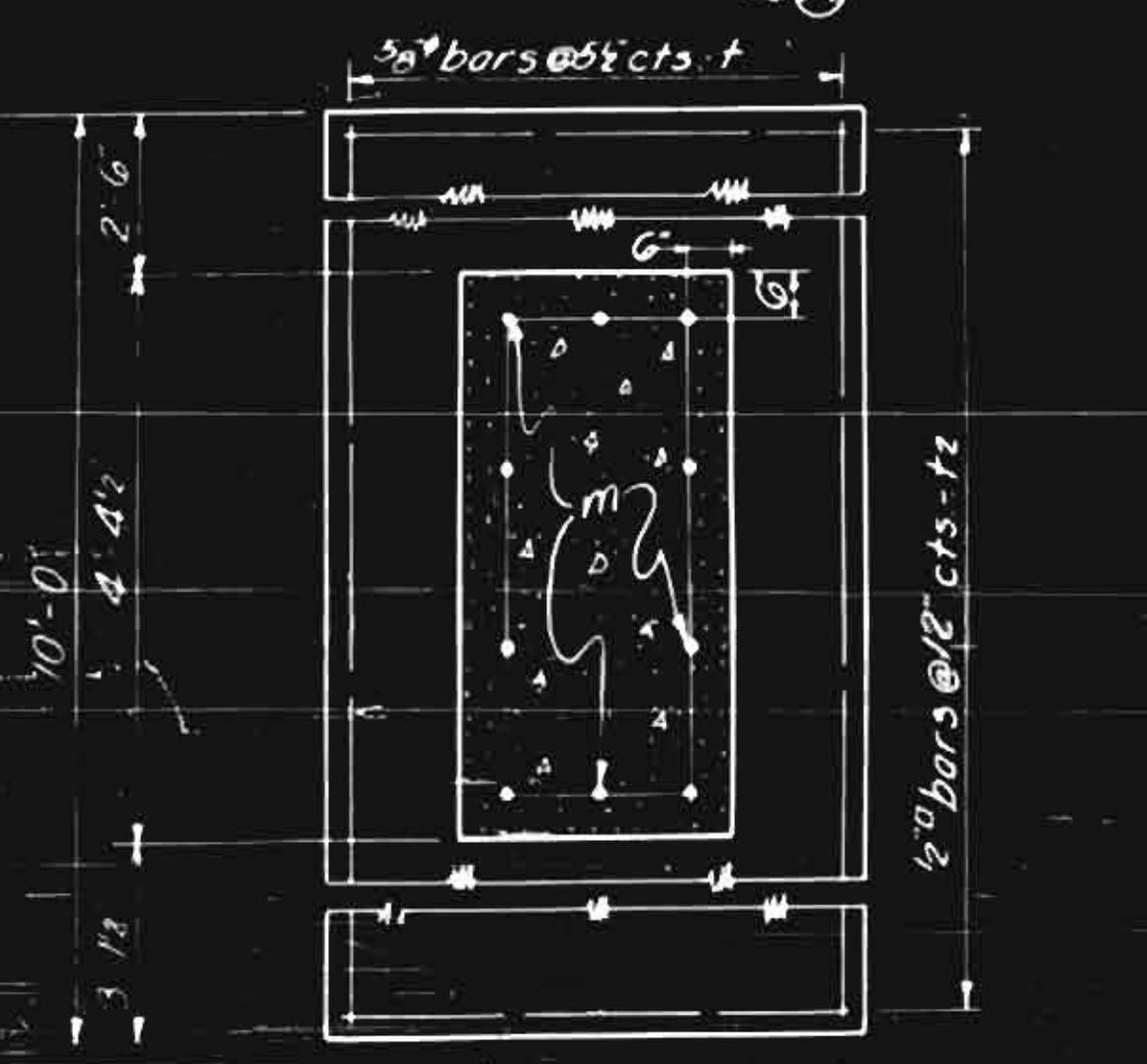
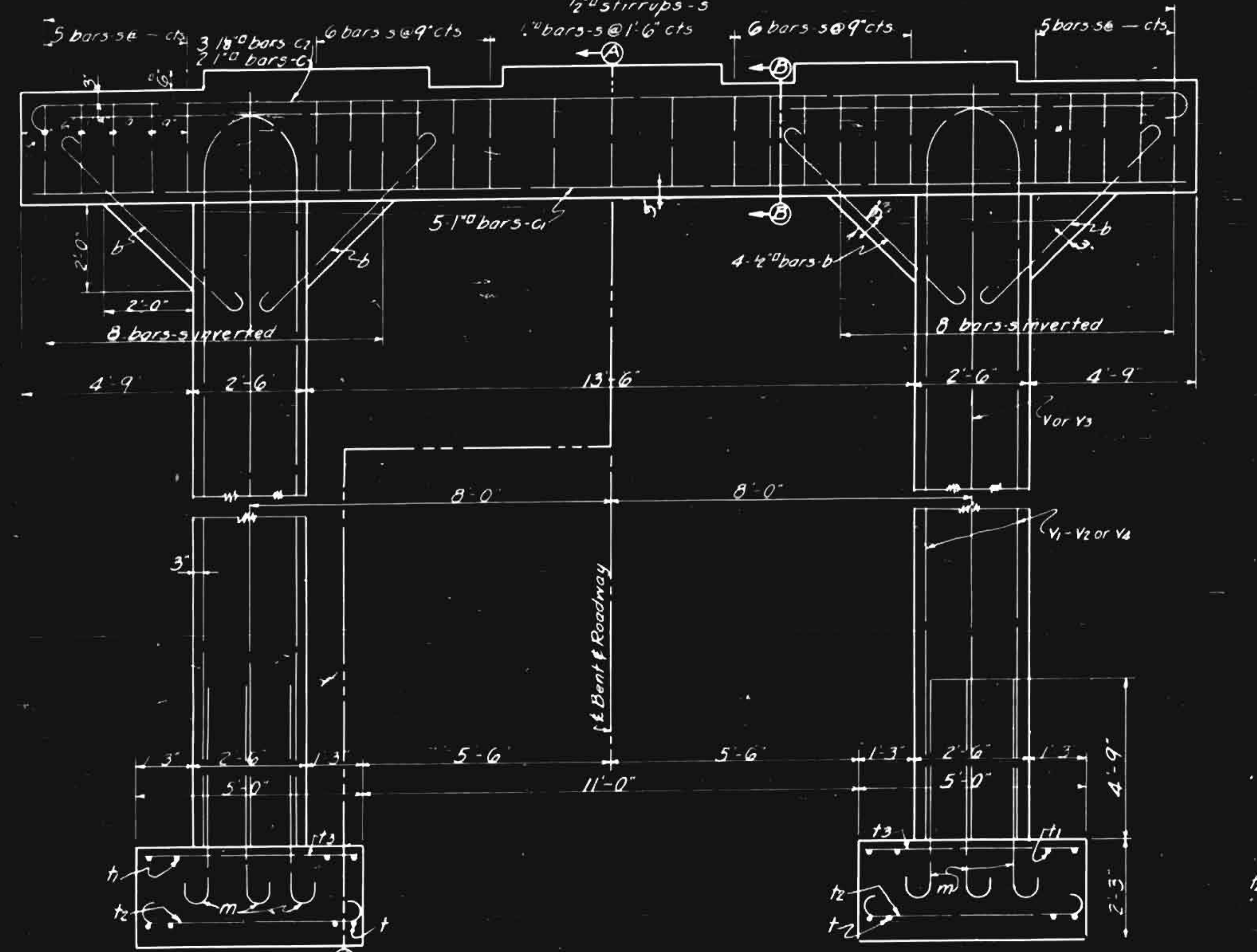
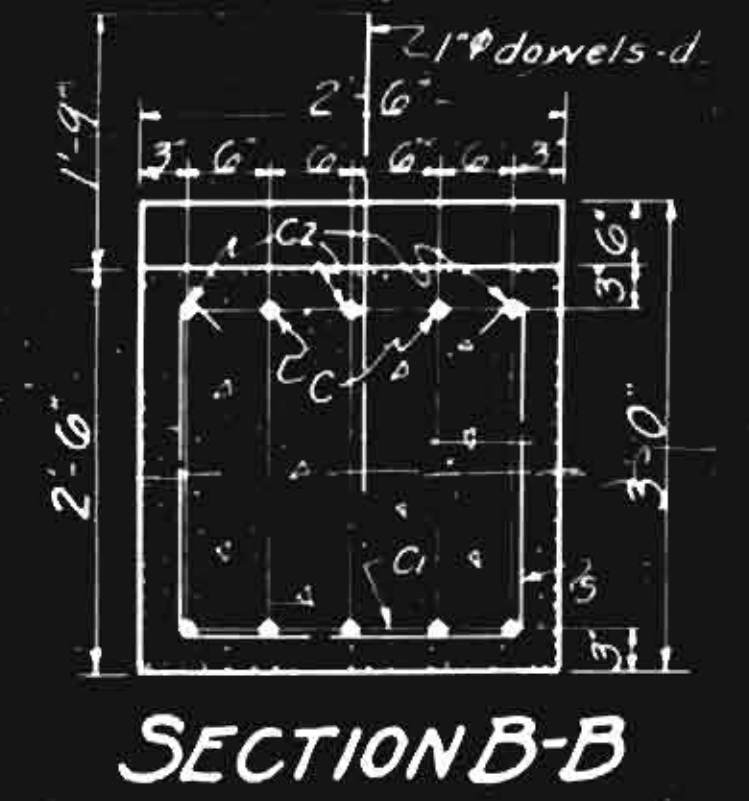
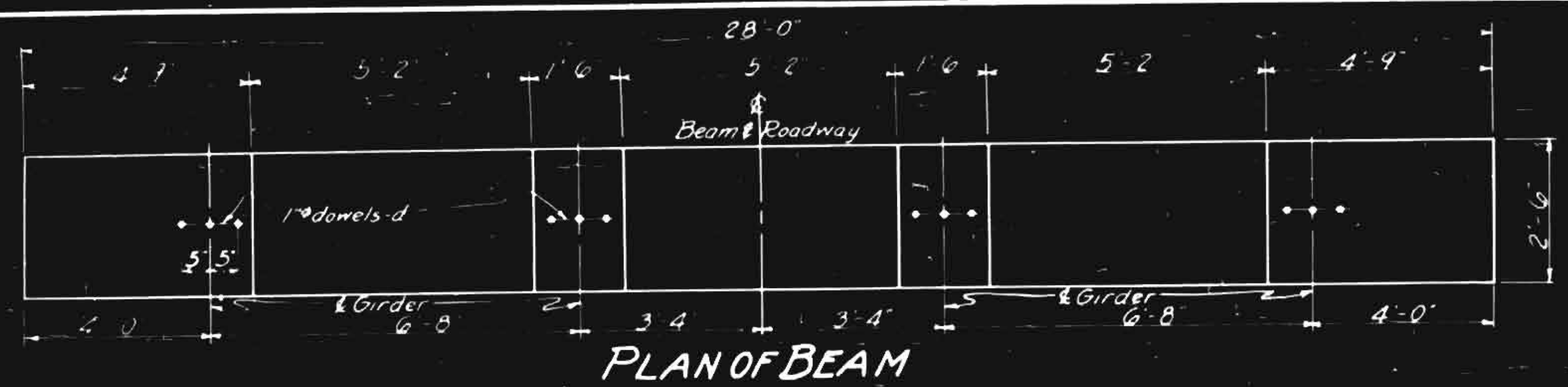
APPROVED BY: A. Millard
 CHECKED BY: J. W. Stahl
 DATE: Mar. 1936

DESIGNED BY: A. Millard
 DRAWN BY: J. W. Stahl
 DATE: Feb. 1936

TRACED BY: J. W. Stahl
 CHECKED BY: J. W. Stahl
 DATE: Mar. 1936

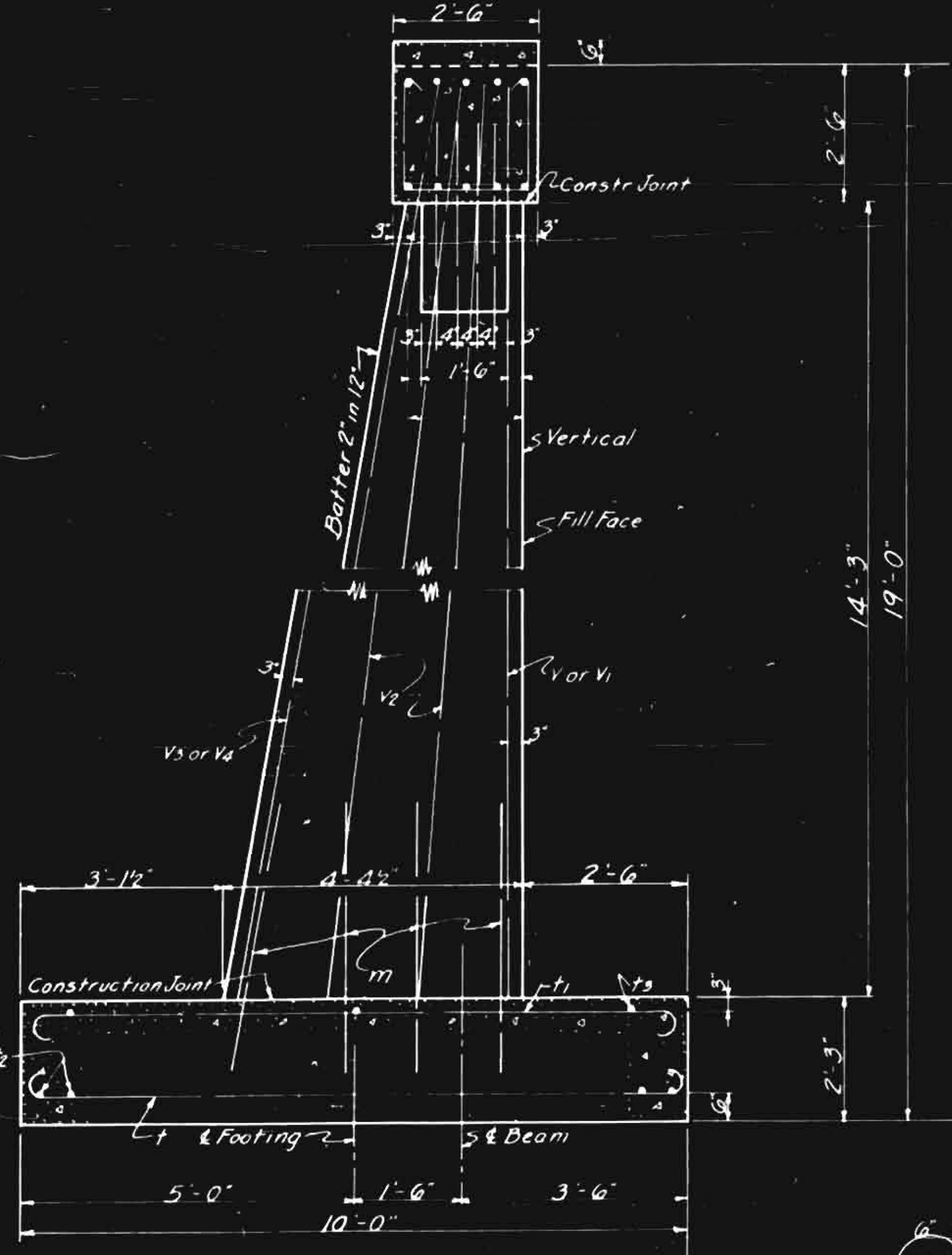
Note: Footings to be carried down at least 12" into rock and have a minimum thickness of 2'-3"

PROJECT NO.	6062
SHEET NO.	12



ELEVATION

PLAN OF FOOTING



SECTION A-A

VIEW SHOWING JUNCTION WITH SUPERSTRUCTURE

DESIGN DATA
 Specifications: A.A.S.H.O.
 Assumed Live Load: H-15
 Steel in Tension: 16,000 lbs per sq in
 Concrete in Compression: 900 lbs per sq in
 Shear in Class A Concrete: 60 lbs per sq in
 Equivalent Fluid Pressure of Earth: 30 lbs per sq ft

GENERAL NOTE
 Class A concrete shall be used throughout.
 Maximum size of coarse aggregate to be 1/4".
 All exposed corners to be chamfered 1".
 All reinforcing steel to be deformed bars. All dimensions relative to reinforcement are to centers of bars. No splices of bars other than those shown on plans will be permitted. All bars shall be securely held in correct position. No construction joints will be permitted other than those shown on plans. All material and workmanship as per the North Carolina State Highway and Public Works Commission.

The following extra bars are provided to hold reinforcing steel in correct position: 6 t3

BILL OF MATERIAL				
BENT NO. 2				
Bar	No	Size	Length	Weight
b	16	1/2"	7'-6"	102
c	2	1/2"	29'-9"	202
c1	5	1/2"	27'-6"	468
c2	3	1/2"	29'-9"	304
d	12	1/2"	3'-6"	112
m	20	1/2"	7'-6"	646
s	25	1/2"	7'-3"	154
t	22	5/8"	11'-6"	264
t1	10	1/2"	11'-6"	98
t2	20	1/2"	6'-6"	111
t3	6	1/2"	4'-6"	23
v	2	1/2"	16'-6"	142
v1	4	1/2"	20'-0"	344
v2	4	1/2"	16'-6"	449
v3	2	1/2"	16'-9"	114
v4	4	1/2"	20'-3"	275
Reinforcing Steel - lbs.				3888
Concrete - Class A - cu. yds.				24.2
Conc per ft. depth one footing - cu. yds.				105

PROJECT NO. 6062
 ANSON COUNTY
 STATION 623+10
 END BENT NO. 2

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 STANDARD
 R.C. END BENT
 FOR DECK GIRDER BRIDGES

FEBRUARY, 1936

STD NO. E-B 6062

APPROVED BY: [Signature]
 DATE: Feb 22, 1936
 CHECKED BY: [Signature]
 DATE: Feb 17, 1936
 STANDARD: 7-11-1935

Note: Footings to be carried down at least 12" into rock and have a minimum thickness of 2'-3"

