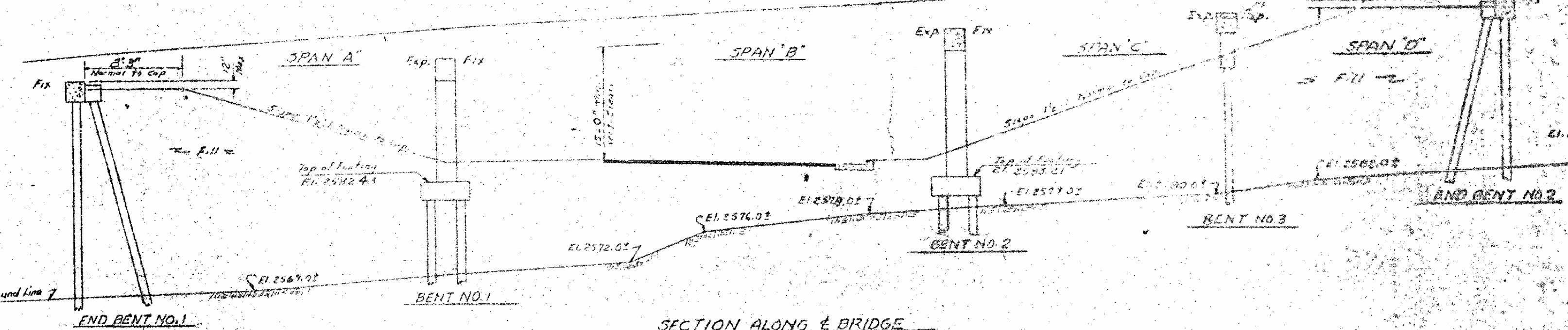
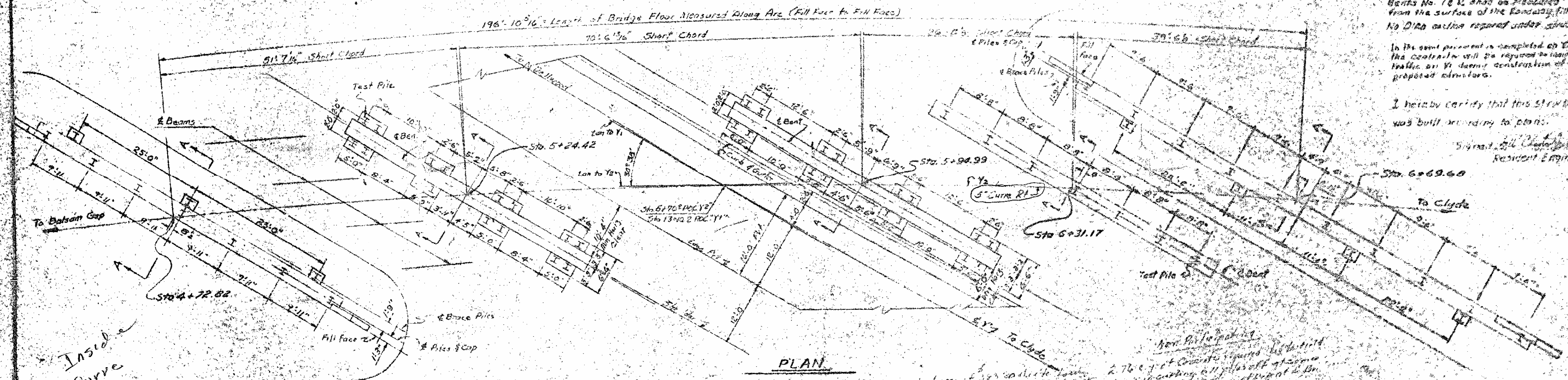


SECTION ALONG ℄ BRIDGE
Bents along section A-A



PLAN

Deduction of 3.33 cu. yds. for ... Strength Concrete in Cap of Bent ... [illegible]

2. The cost of Concrete figured ... [illegible]

NOTES

Assumed Live Load: H20-S16 (44)

For other design data and General Notes see Sheet S-14.

The Contractor will be required to drive one 12 H 53 Steel Test Pile 6? long in place for Bent No. 1 and one 12 H 53 Steel Test Pile 35' long in place for Bent No. 3. The Test Piles shall be paid for as linear ft. of 12 H ... [illegible]

The order length for the 12 H 53 Steel Piles will be given after the Test Piles have been driven.

Piles for End Bent No. 1 and for Bents No. 1, 2 & 3 shall be driven to a min. bearing capacity of 24 tons each. Piles for End Bent No. 2 shall be driven to a min. bearing capacity of 20 tons each.

Piles for End Bent No. 1 and No. 2 and Bents No. 1, 2, & 3 to be driven through the roadway fill.

Work is not to be started on this Bridge until after roadway section has been completed by the Roadway Contractor.

Unclassified Structure Excavation for Bents No. 1 & 2 shall be measured from the surface of the Roadway fill.

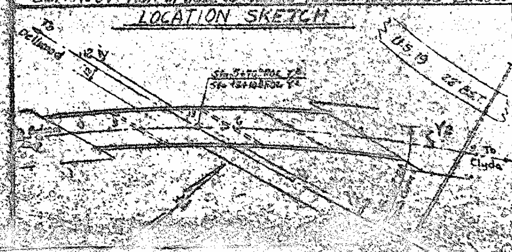
No Dike section required under structure.

In the event pavement is completed on Y2 the contractor will be required to maintain traffic on Y1 during construction of proposed structure.

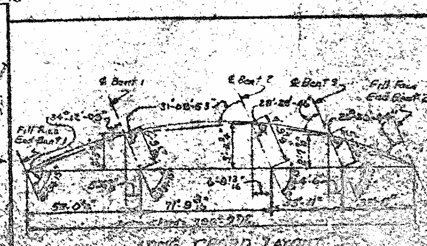
I hereby certify that this structure was built according to plans.

Signed: [illegible]
Resident Engineer

B.M. No. 39: Nail in base 10" Walnut 123' Lt. Sta. 9+71.00 El. 2565.13



LOCATION SKETCH



LONG CHORD LAYOUT

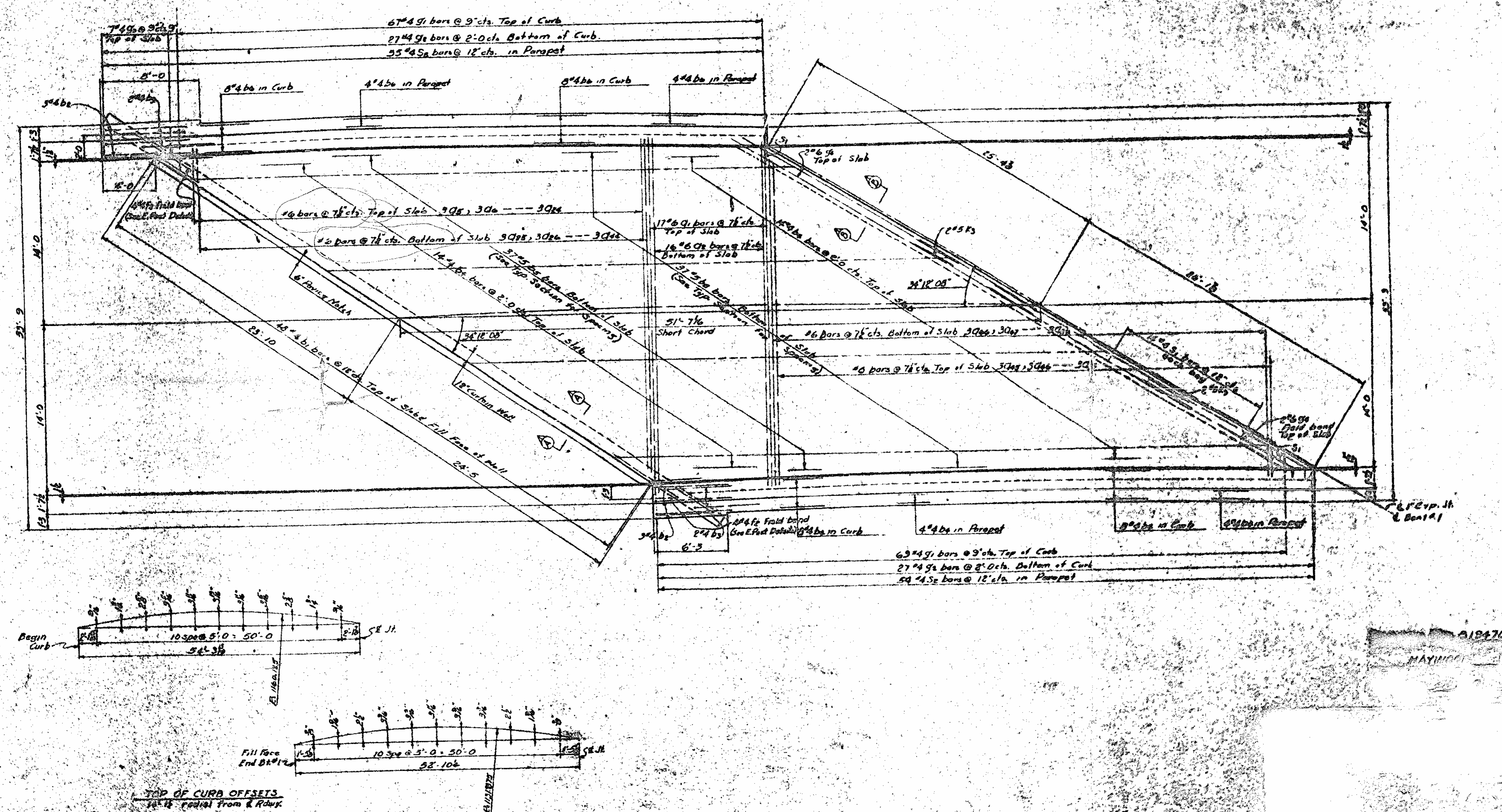
Rev. #1 - To add stations for bents — By R.H.

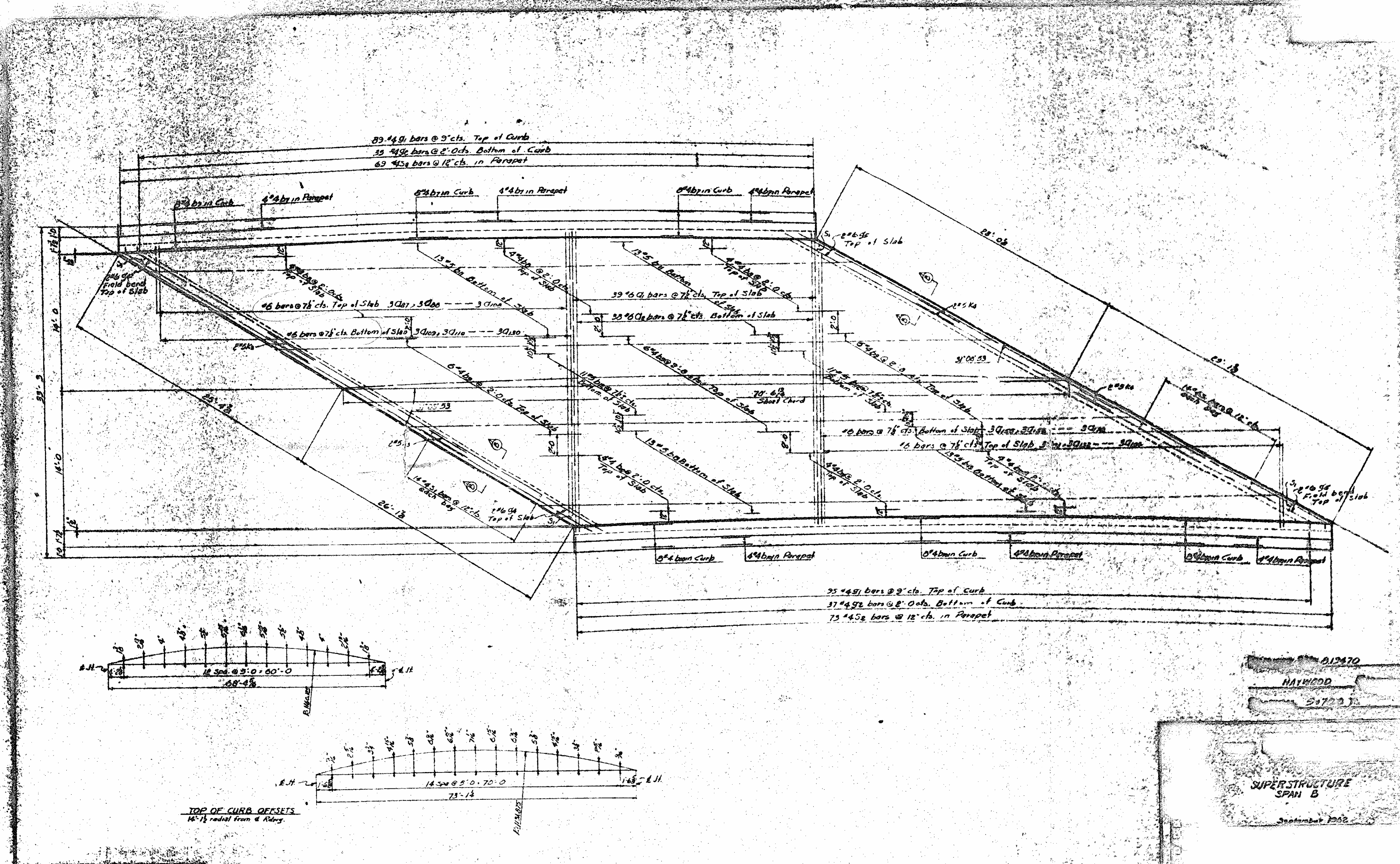
TOTAL BILL OF MATERIAL

	Class "A" Concrete Cu. Yds.	Reinforcing Steel Lbs.	Structural Steel Approx. Lbs.	12 H 53 Steel Piles No.	12 H 53 Steel Piles Lin. Ft.	Uncl. Str. Excavation Cu. Yds.	Bar Rail Lin. Ft.	Steel Pile Cut-offs Lin. Ft.
Span "A"	61.6	12,900	30,900				97.52	
Span "B"	[illegible]	[illegible]	61,600				101.47	
Span "C"	[illegible]	[illegible]	22,600				[illegible]	
Span "D"	[illegible]	[illegible]	21,400				[illegible]	
End Bent No. 1	[illegible]	[illegible]		10	[illegible]	[illegible]	[illegible]	[illegible]
Bent No. 1	[illegible]	[illegible]		10	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		[illegible]				
[illegible]				[illegible]				
[illegible]	[illegible]							
			136,500					

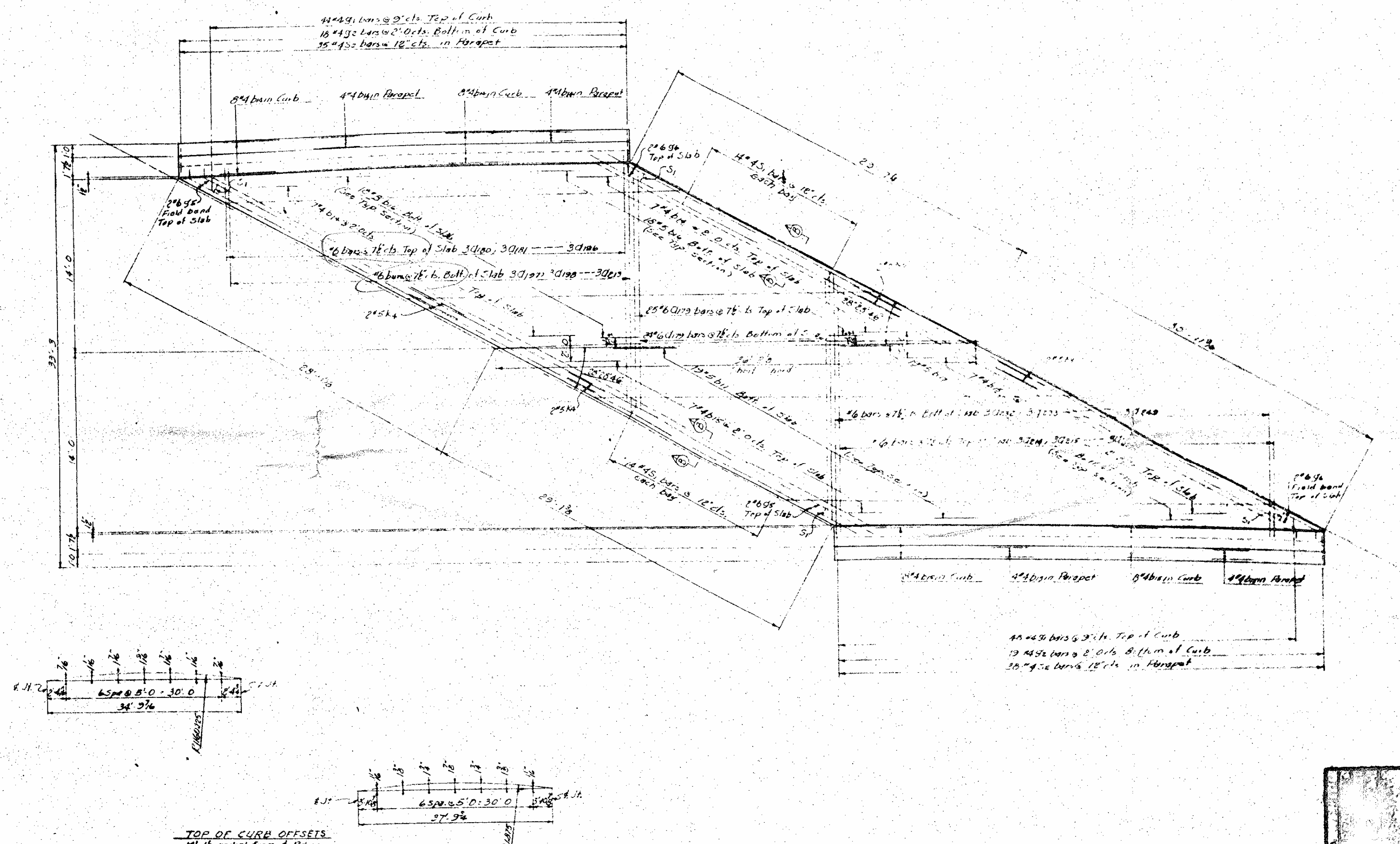
[illegible] No. B-19422 [illegible]
Haywood [illegible]

196-10
140
56-10


67 #4 g1 bars @ 9" cts. Top of Curb
27 #4 g2 bars @ 2'-0 cts. Bottom of Curb
55 #4 S2 bars @ 12" cts. in Parapet
8 #4 b6 in Curb
4 #4 b5 in Parapet
#6 bars @ 7½" cts. Top of Slab
#6 bars @ 7½" cts. Bottom of Slab
Short Chord
6" Pervious Hole
18" Curtain Wall
Top of Slab Fill Face of Wall
4 #4 b5 in Parapet
63 #4 g1 bars @ 9" cts. Top of Curb
27 #4 g2 bars @ 2'-0 cts. Bottom of Curb
59 #4 S2 bars @ 12" cts. in Parapet
Begin Curb
Fill Face End Bent #2
TOP OF CURB OFFSETS



89 #4 G_1 bars @ 9" cts. Top of Curb
35 #4 G_2 bars @ 8'-0 cts. Bottom of Curb
69 #4 S_8 bars @ 12" cts. in Parapet
95 #4 S_1 bars @ 9" cts. Top of Curb
37 #4 G_2 bars @ 8'-0 cts. Bottom of Curb
73 #4 S_8 bars @ 12" cts. in Parapet
TOP OF CURB OFFSETS
B 19470
HAYWOOD
SUPERSTRUCTURE
SPAN B
September 1962



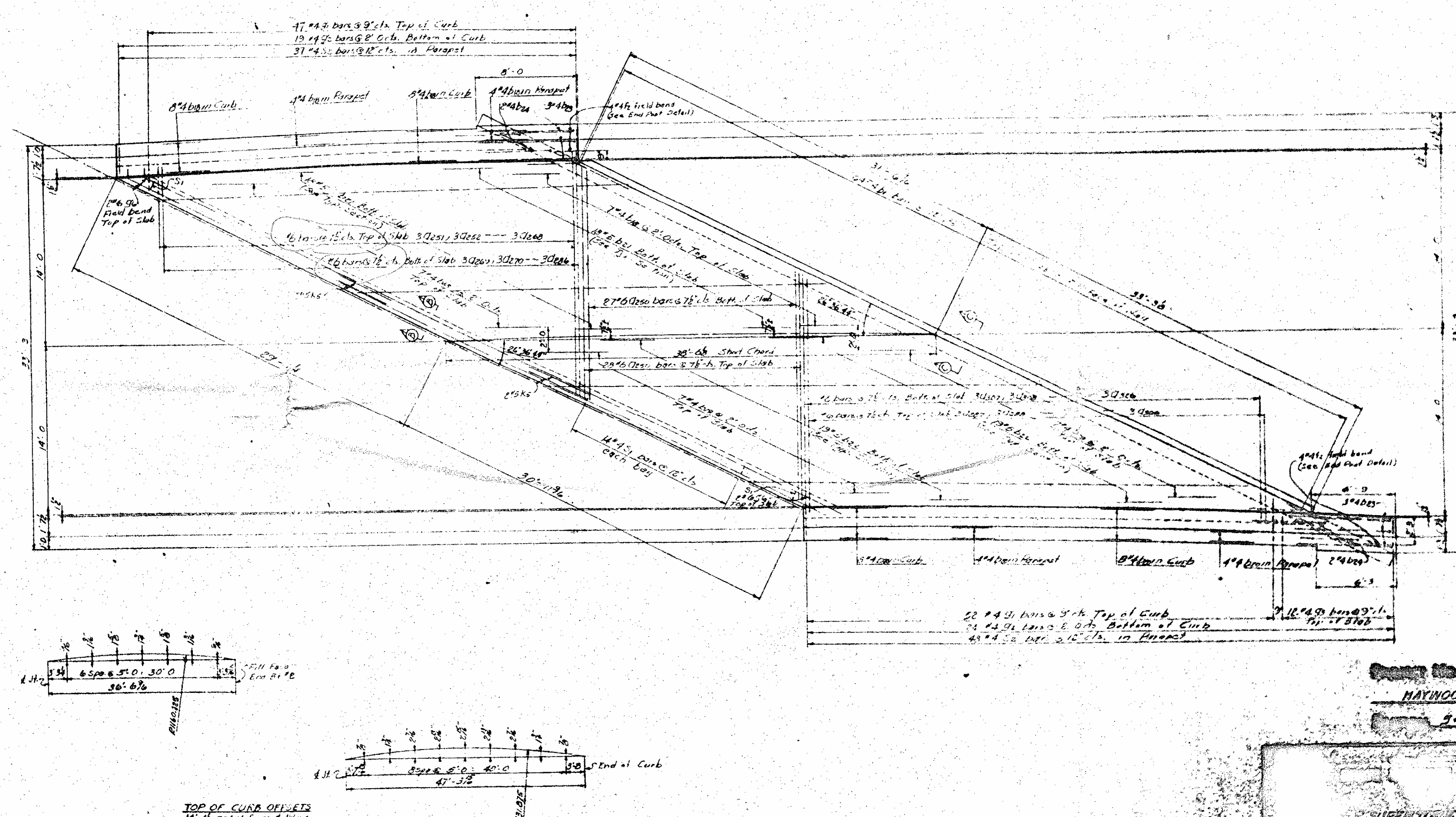
PROJECT No. 8.12410

HAYWOOD COUNTY

STATION 5170.0 Yc

SUPERSTRUCTURE
SPAN C

September 1968

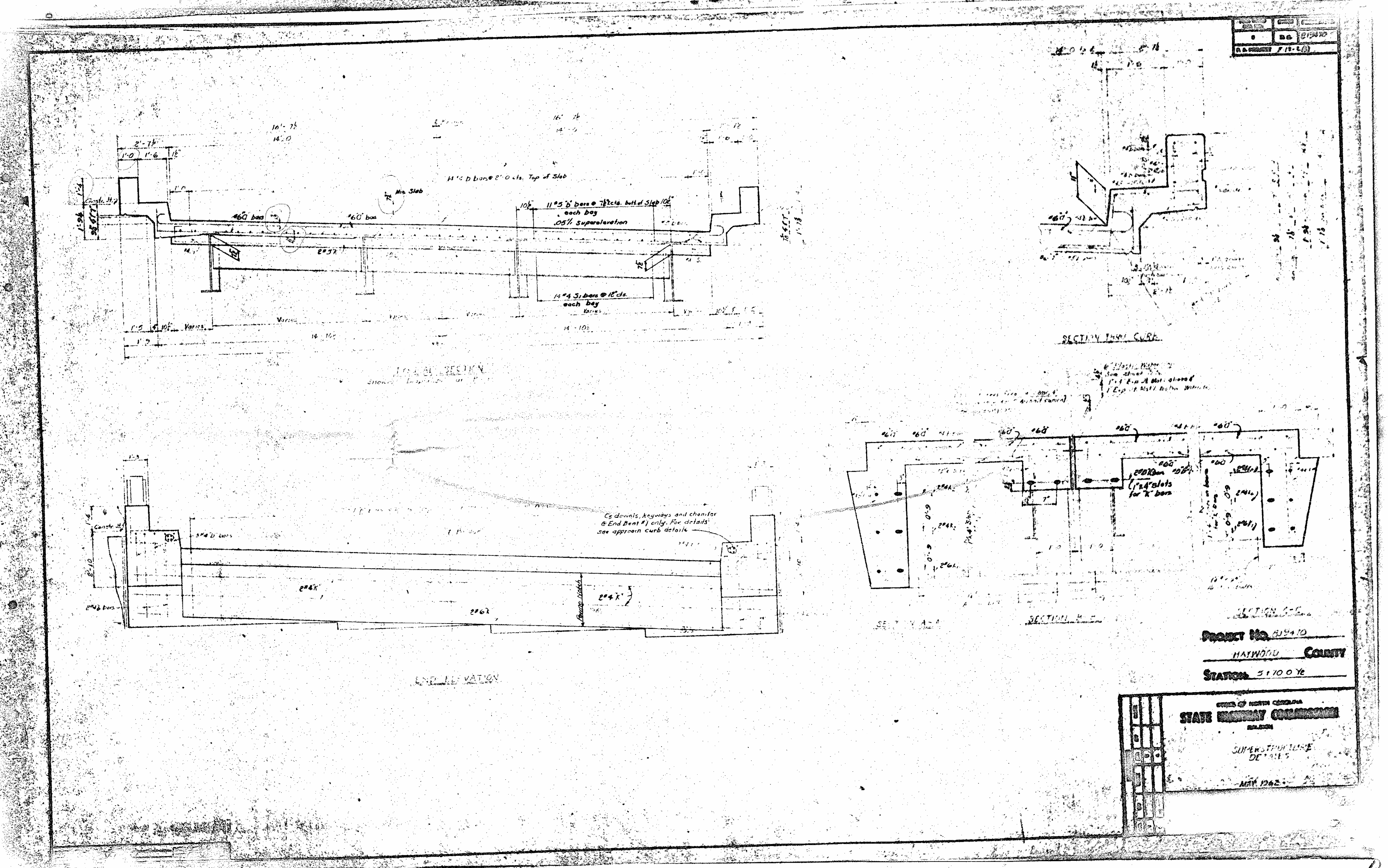


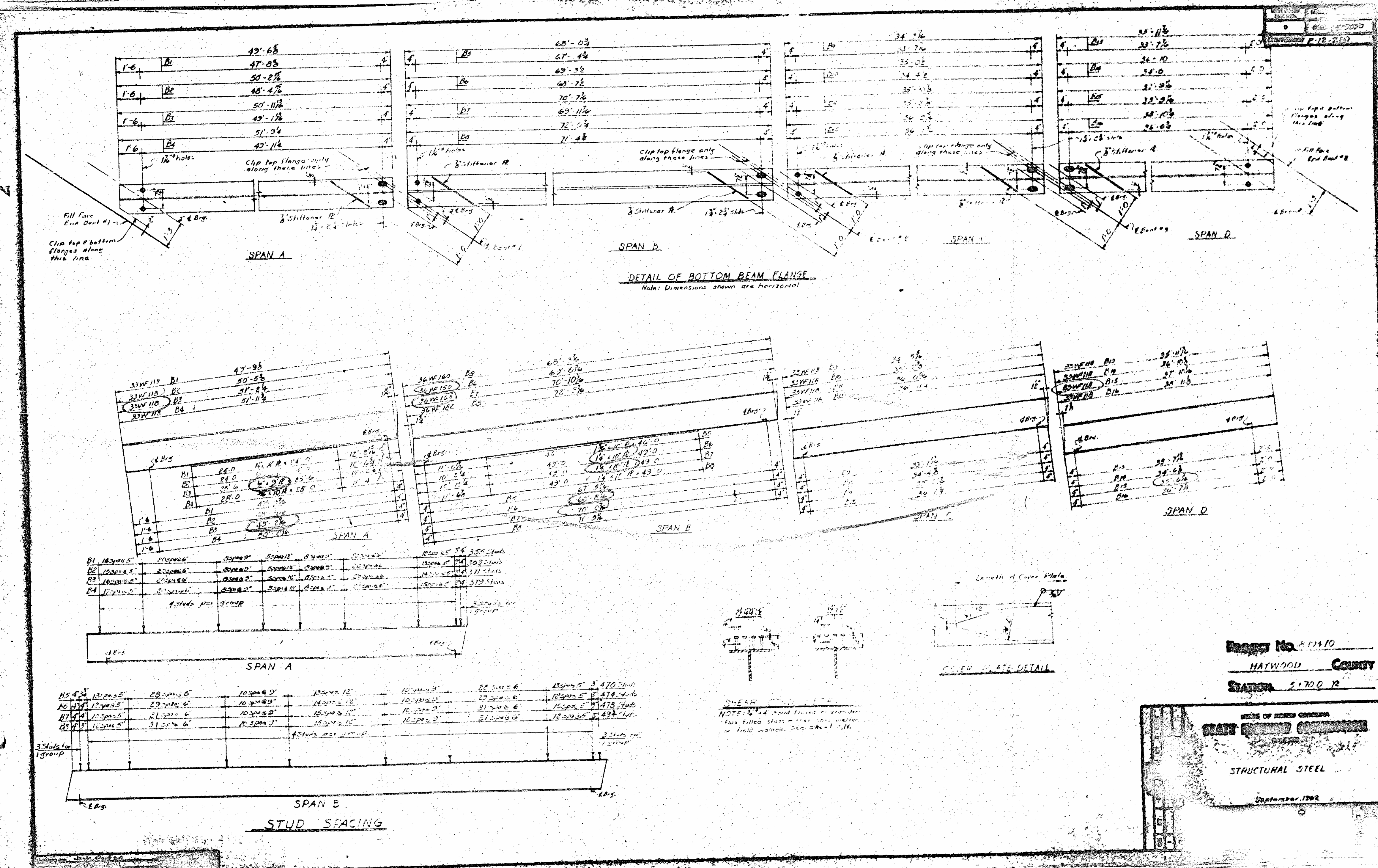
Drawing No. 8.13472

HAYWOOD

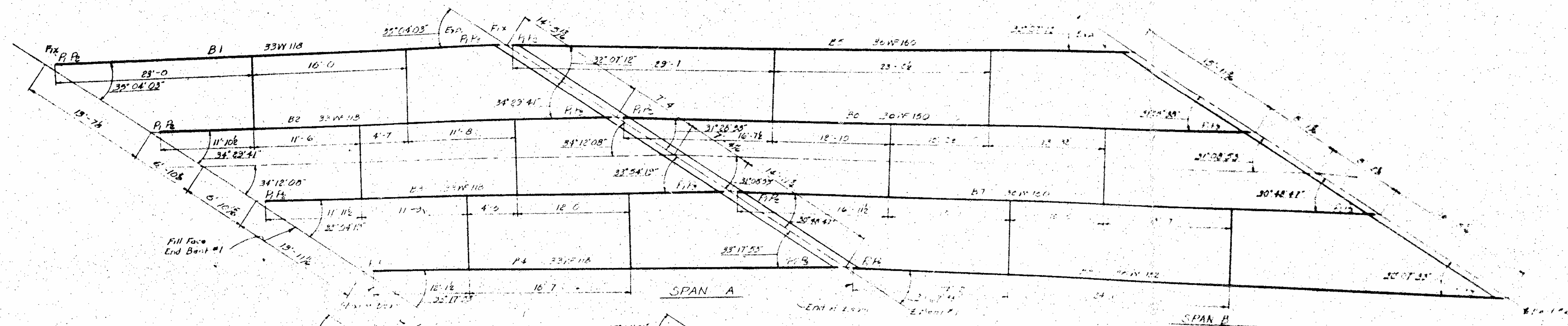
9+70.0YE

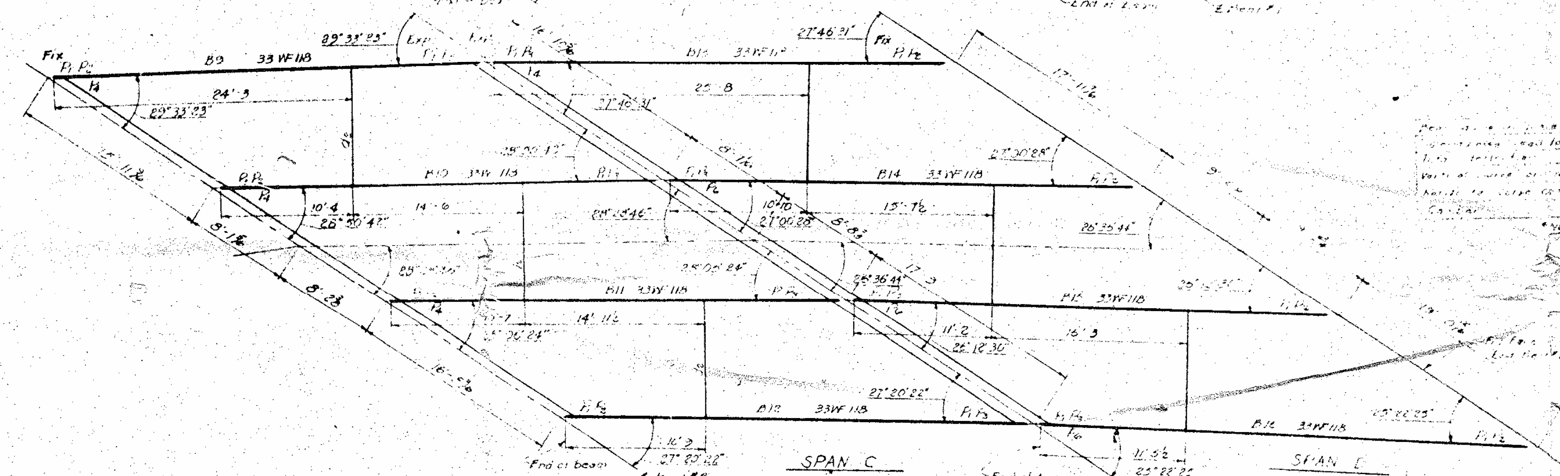
SUPERSTRUCTURE
SPAN D


14 #4 D bars @ 2'-0 cts. Top of Slab
11 #5 "b" bars @ 7½" cts. bott of Slab
each bay
.05% superelevation
14 #4 S1 bars @ 12" cts.
each bay
Min. Slab
#60 bars
Varies
SECTION THRU CURB
Cs dowels, keyways and chamfer @ End Bent #1 only. For details see approach curb details
2 #4 "K"
2 #6 K
Bridge Notch
END ELEVATION
(1"x4" slots for "K" bars
SECTION A-A
SECTION B-B
SECTION C-C
PROJECT NO. 8.19410
HAYWOOD COUNTY
STATION 51+00 Ye
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
SUPERSTRUCTURE DETAILS
MAY 1942


SPAN A
SPAN B
SPAN D
DETAIL OF BOTTOM BEAM FLANGE
Note: Dimensions shown are horizontal
SPAN A
SPAN B
SPAN D
SPAN A
SPAN B
STUD SPACING
COVER PLATE DETAIL
PROJECT No.
HAYWOOD COUNTY
STATION
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
STRUCTURAL STEEL
September 1962

8	[illegible]	B13020
[illegible]	F-12-2(3)	

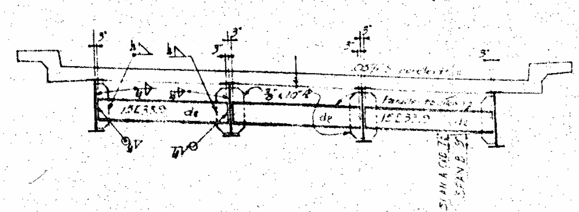




	SPAN A				SPAN B				SPAN C				SPAN D			
	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16
Dead load deflection	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Superimposed dead load	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total deflection	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Vertical curve ordinate	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Vertical curve compensation	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Camber	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0"	0"	0"	0"	0"	0"	0"	0"

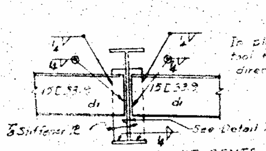
*NOTE: No camber other than natural mill camber required for beams in Span C & D.

NOTE: All beams and cover plates shall be of ASTM A36 grade structural steel, see sheet S.N.



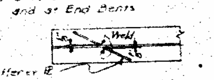
TYPICAL SECTION
SHOWING INTERIOR DIAPHRAGM

NOTE: In lieu of the welding procedure for shop and field welds indicated for the intermediate diaphragm connections, the contractor may, at his option, shop weld the connector plates to the beam webs and field weld the channels to the connector plates. Special care in handling the beams must be observed if connector plates are shop welded to the beam webs.



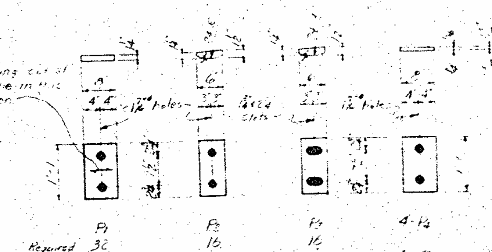
DIAPHRAGM CONNECTION AT BENTS

NOTE: Omit stiffener on outside of Ext. Bms. and at End Bents.

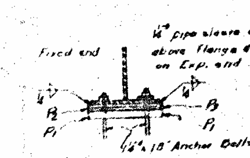


WELD DETAIL "A"

Note: Stiffeners to be placed parallel to end of beams.



BEARING PLATE DETAILS



SECTION THRU BEAM

PROJECT No. 613410
HAYWOOD COUNTY
STATION 51+00.76

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

STRUCTURAL STEEL

September 1962