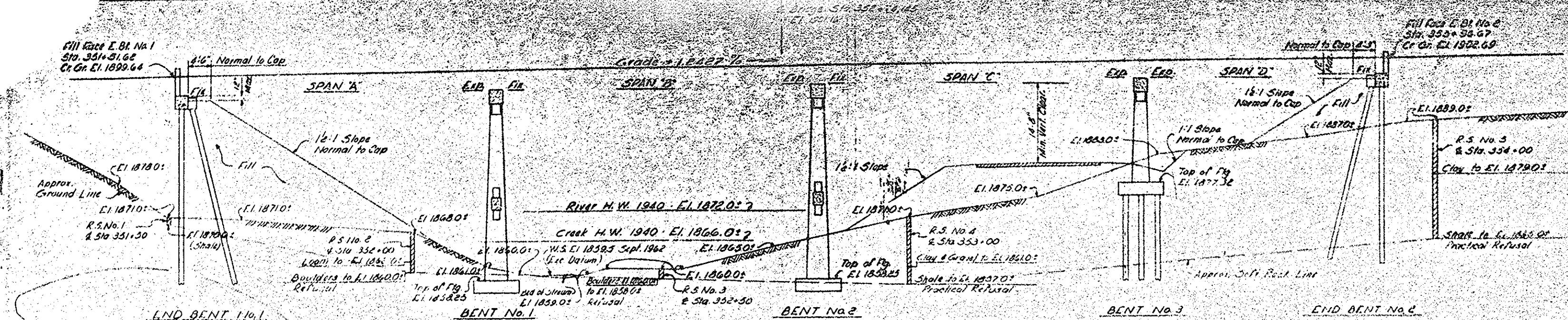
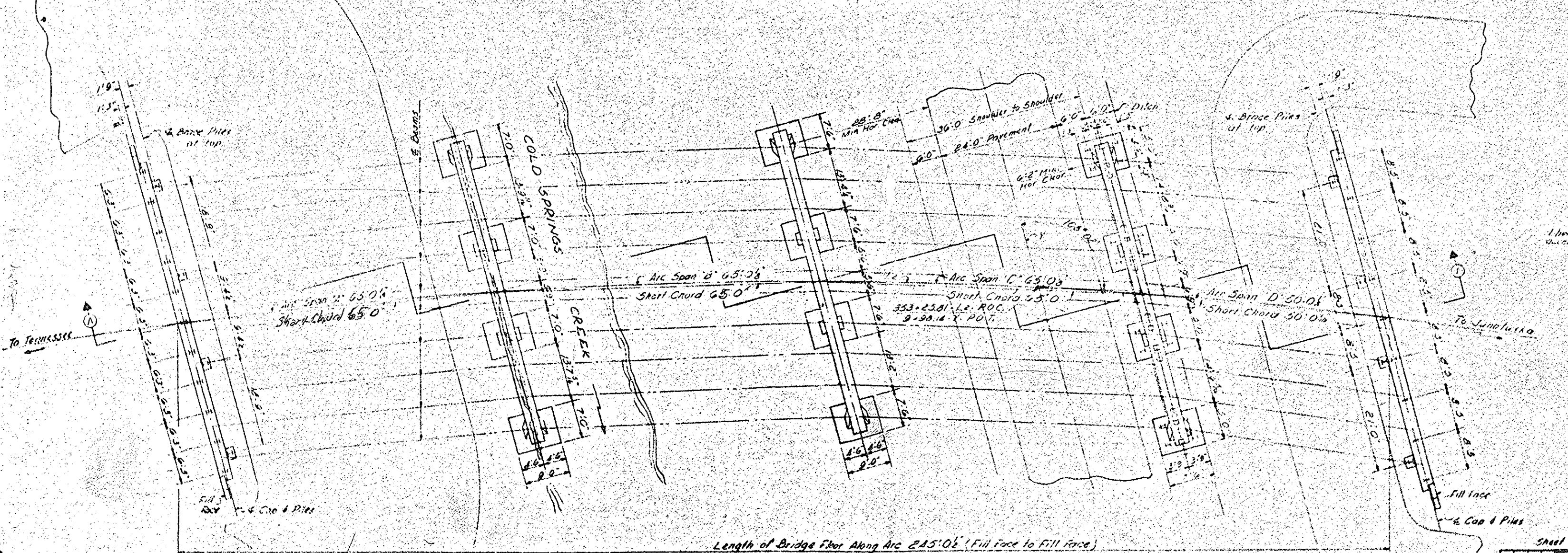


PROJECT NO.	819456
SHEET NO.	2
DATE	APRIL 1963



SECTION ALONG & OF BRIDGE
BENTS ALONG LINE "A-A"

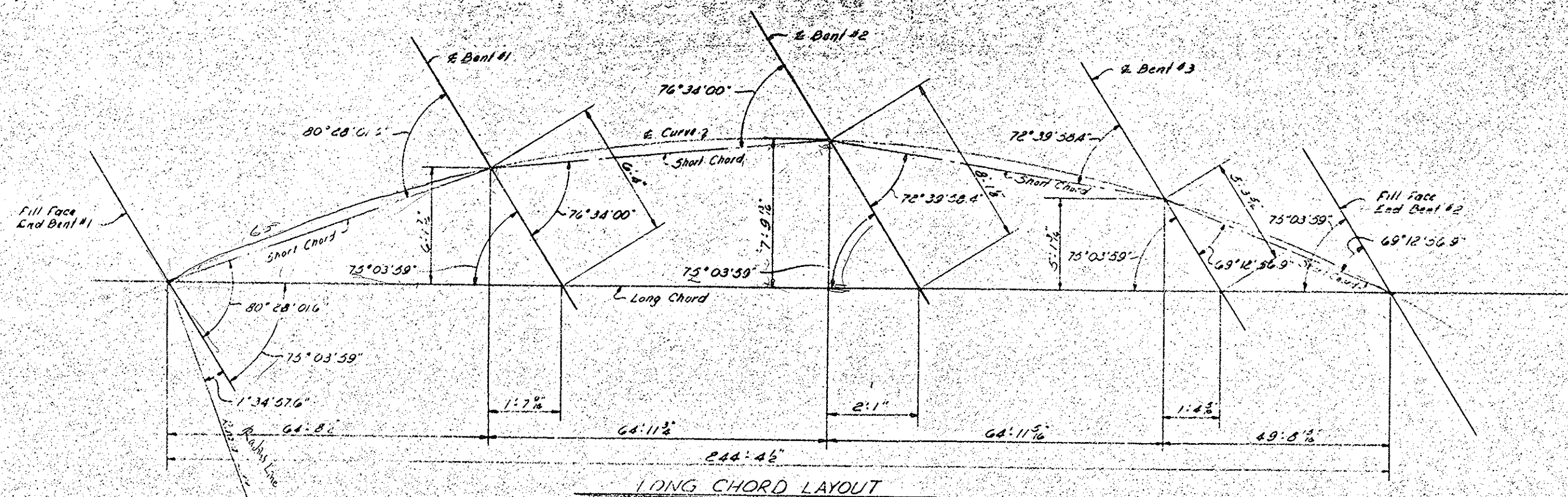


PLAN

PROJECT NO. 819456
HAYWOOD COUNTY
STATION: 353+25.81 to P.O.C.
9+98.18 P.O.T.

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
GENERAL DRAWING	
FOR BRIDGE OVER COLD SPRINGS	
CREEK AND U.S. ROAD ON I-40	
BETWEEN WATERVILLE	
AND JUALUSKA	
APRIL 1963	
DESIGNED BY	J. L. Thomas
CHECKED BY	R. W. Jones
APPROVED BY	

PROJECT	15 C
P. A. PROJECT	7-40
DATE	4/2/63
SHEET	58



NOTES

Assumed Live Load - H20-316 (44) or Alternate 1
For other design data and general note see sheet 5-N.

Computed foundation load for Bents No. 1 & 2 equals 35 tons per sq ft.

Piles for End Bents No. 1 & 2 and for Bent No. 3 to be driven to a minimum bearing capacity of 30 tons each.

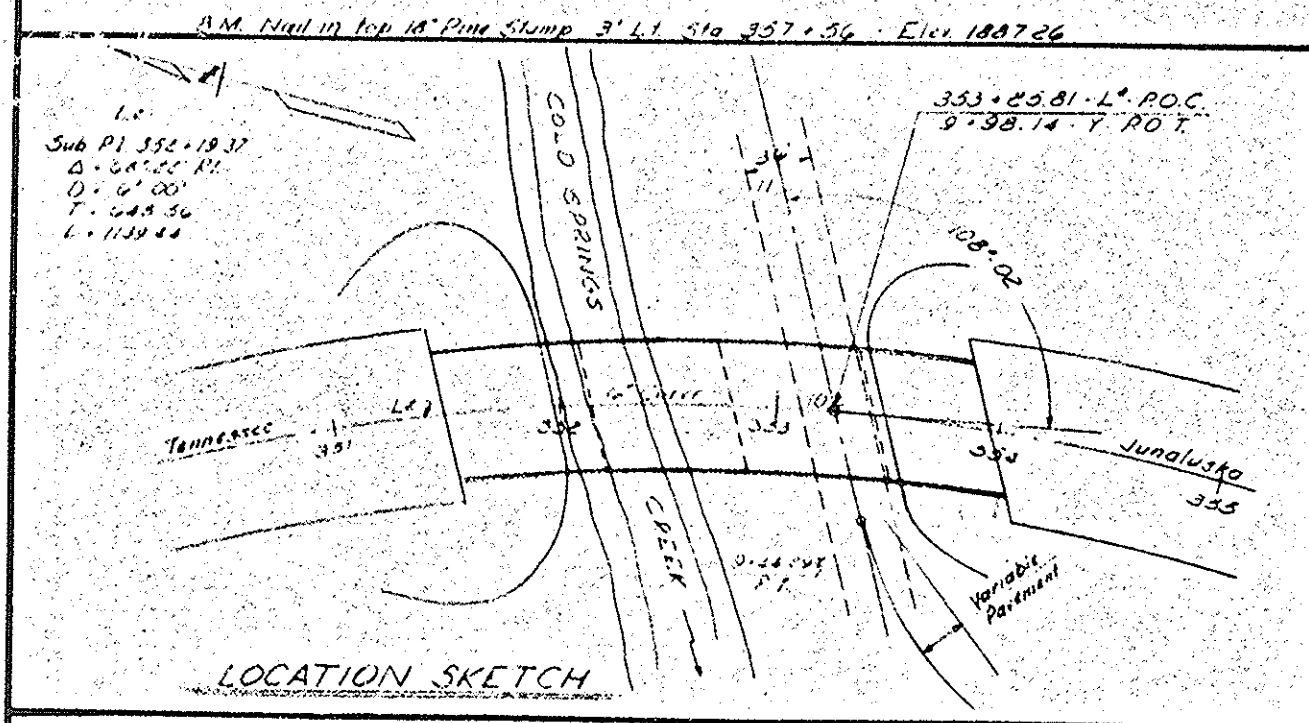
Piles for End Bents No. 1 & 2 to be driven through the roadway fill.

No test piles are required. Order lengths shall be 35 ft for End Bent No. 1, 25 ft for Bent No. 3 and 45 ft for End Bent No. 2.

Work is not to be started on Bents No. 2 and No. 3 until after the roadway section has been graded by the roadway contractor.

Excavation for Bent No. 3 to be measured from the surface of the roadway cut.

Bents No. 1, 2 & 3 shall have the same surface finish as Bents for a grade separation. See Specs.



TOTAL BILL OF MATERIAL							
	Class "A" Concrete Cu. Yds.	Reinforcing Steel Lbs.	Structural Steel Approx. Lbs.	12 H.S.S. Steel Piles No. Lin. Ft.	12" x 12" Pile (12' O.C.) Lin. Ft.	Dry Cu. Yds.	Wet Cu. Yds.
Span "A"	183.6	27,780	104,600				
Span "B"	115.4	27,346	107,500				
Span "C"	115.5	27,367	107,600				
Span "D"	39.7	15,888	66,400				
End Bent No. 1	20.4	4,686	21,465	15	547	25.495	23.166
Bent No. 1	100.57	98.4	17,830				
Bent No. 2	100.17	101.5	17,330				
Bent No. 3	53.0	11,633		24	600	133.182	130.762
End Bent No. 2	21.5	4,357		4	225	77.123	
Approach Curb	3.2	76					
Extra Piles for Foundation				12	322.05		
TOTALS	732.2	150,799	326,100	49	1,474.4	235	133
REVISED TOTALS	759.5	158,768		1,395.15	916.5	269.9	142.2

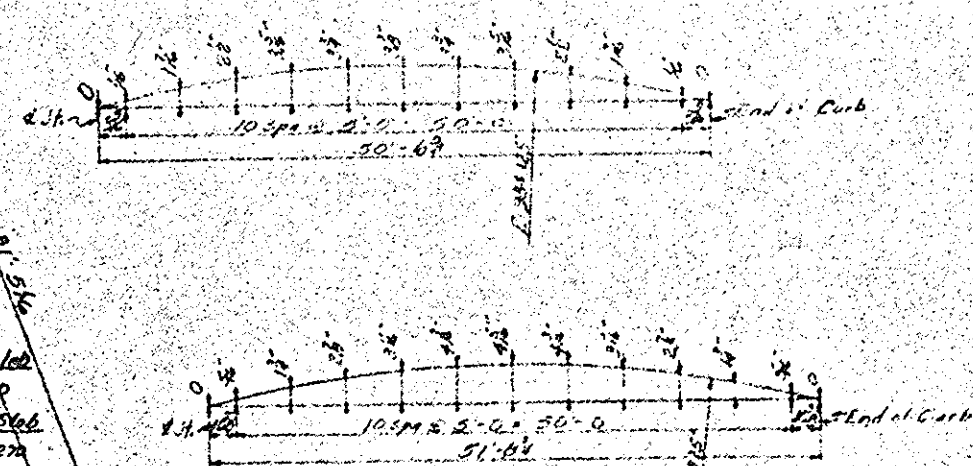
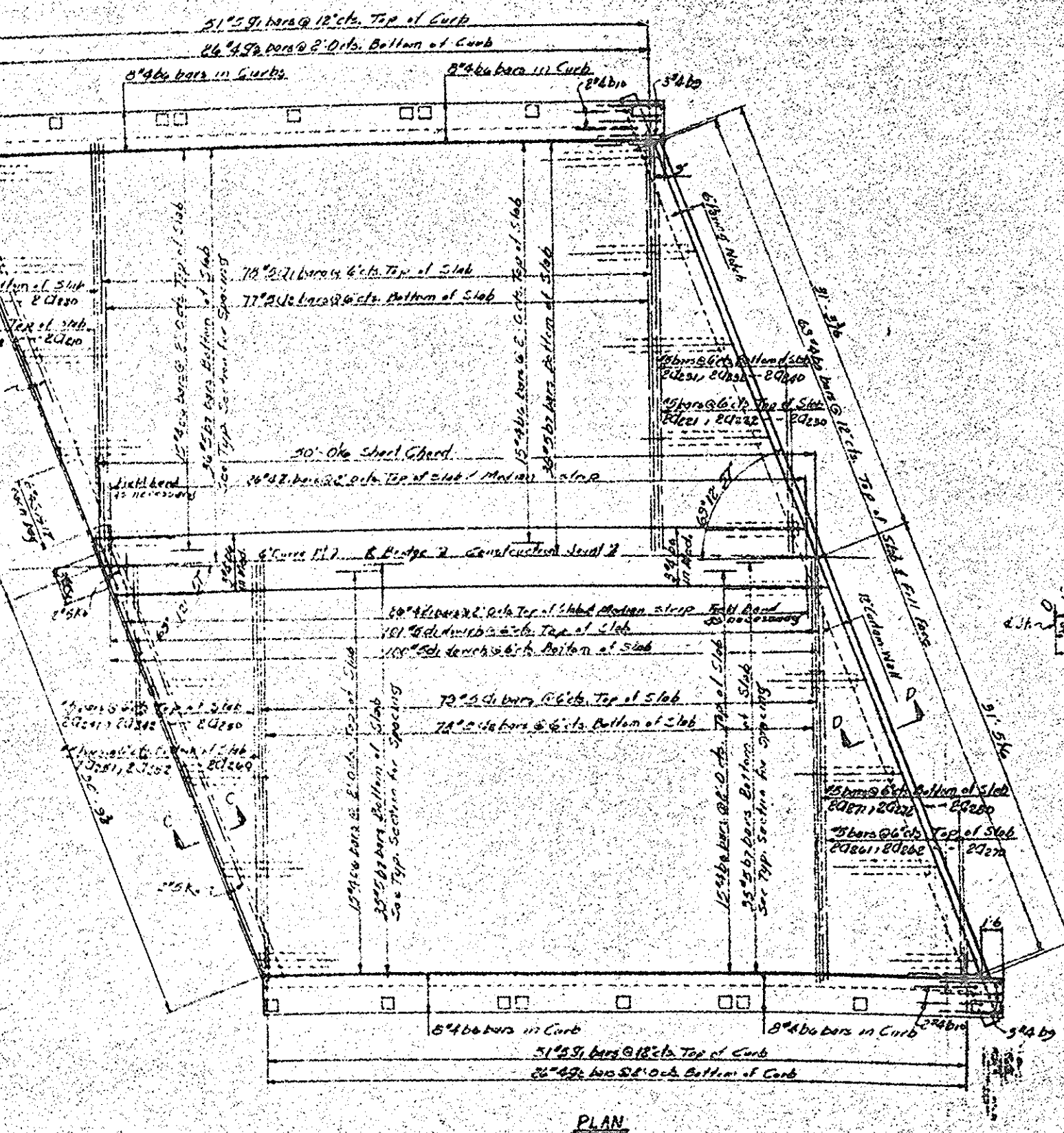
PROJECT NO. 8-19856

HAYWOOD COUNTY

STATION: 353+25.81 L.P.
9+98.14 Y.P.O.

Sheet 2 of 2

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
GENERAL DRAWING	
FOR BRIDGE OVER COLD SPRINGS CREEK AND U.S.F.S. ROAD ON I-26 BETWEEN WATERVILLE AND JUNALUSKA	
APRIL 1963	
DESIGNED BY	A. J. Thomas
CHECKED BY	W. J. O.

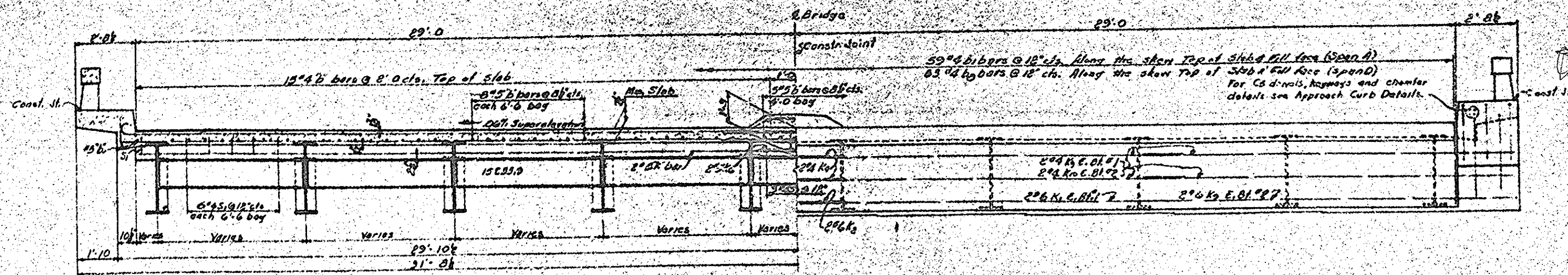


BILL OF MATERIAL						SPAN D	
Qty	Size	Spec	Length	Weight	Qty	Size	Spec
157	2	5	20'-11	4216	157	2	5
158	2	5	20'-0	4128	158	2	5
159	2	5	17'-7	33	159	2	5
160	2	5	17'-11	33	160	2	5
161	2	5	17'-3	46	161	2	5
162	2	5	17'-7	41	162	2	5
163	2	5	18'-11	35	163	2	5
164	2	5	18'-3	30	164	2	5
165	2	5	17'-7	28	165	2	5
166	2	5	18'-11	19	166	2	5
167	2	5	18'-3	19	167	2	5
168	2	5	17'-7	7	168	2	5
169	2	5	20'-10	60	169	2	5
170	2	5	20'-1	53	170	2	5
171	2	5	20'-6	42	171	2	5
172	2	5	20'-10	33	172	2	5
173	2	5	18'-2	30	173	2	5
174	2	5	18'-6	32	174	2	5
175	2	5	18'-10	27	175	2	5
176	2	5	18'-2	21	176	2	5
177	2	5	17'-6	19	177	2	5
178	2	5	17'-10	10	178	2	5
179	2	5	20'-2	32	179	2	5
180	2	5	20'-7	47	180	2	5
181	2	5	20'-11	40	181	2	5
182	2	5	18'-4	30	182	2	5
183	2	5	18'-7	32	183	2	5
184	2	5	18'-1	27	184	2	5
185	2	5	18'-6	22	185	2	5
186	2	5	17'-10	16	186	2	5
187	2	5	17'-3	11	187	2	5
188	2	5	17'-9	6	188	2	5
189	2	5	20'-10	30	189	2	5
190	2	5	20'-5	26	190	2	5
191	2	5	20'-7	45	191	2	5
192	2	5	19'-0	40	192	2	5
193	2	5	18'-4	34	193	2	5
194	2	5	18'-9	29	194	2	5
195	2	5	17'-2	23	195	2	5
196	2	5	17'-6	17	196	2	5
197	2	5	17'-11	12	197	2	5
198	2	5	17'-3	7	198	2	5
199	2	5	18'-2	22	199	2	5
200	2	5	18'-6	23	200	2	5
201	2	5	18'-10	43	201	2	5
202	2	5	18'-2	30	202	2	5
203	2	5	18'-6	27	203	2	5
204	2	5	18'-10	27	204	2	5
205	2	5	18'-2	21	205	2	5
206	2	5	17'-6	16	206	2	5
207	2	5	17'-10	10	207	2	5
208	2	5	20'-2	3	208	2	5
209	2	5	20'-7	3	209	2	5
210	2	5	20'-11	36	210	2	5
211	2	5	18'-4	30	211	2	5
212	2	5	18'-7	32	212	2	5

[illegible]

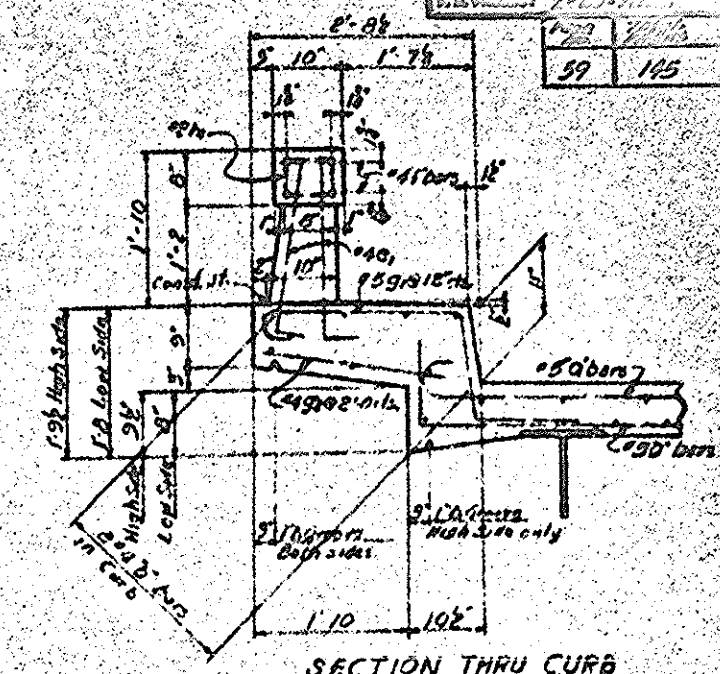
Post PROJECT No. 919456
HAYWOOD COUNTY
STATION 993-2281 1/4 P.O.C.

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
DIVISION OF HIGHWAYS
SUPERSTRUCTURE
SPAN D
March 15, 1963

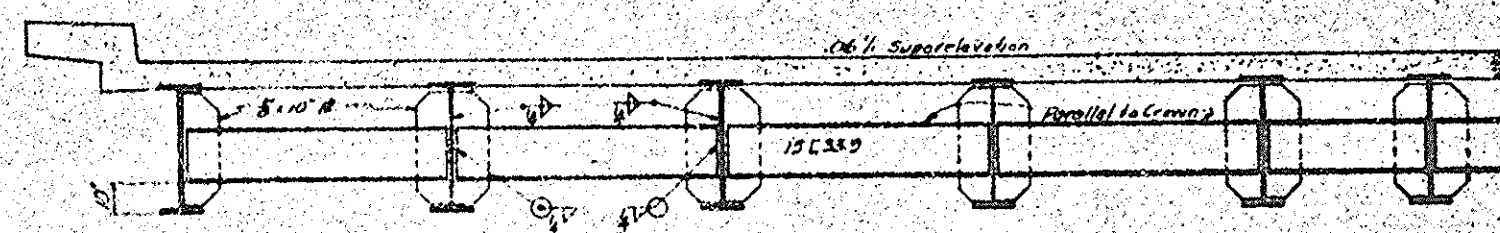


HALF TYPICAL SECTION
AT BENTS

HALF END VIEW

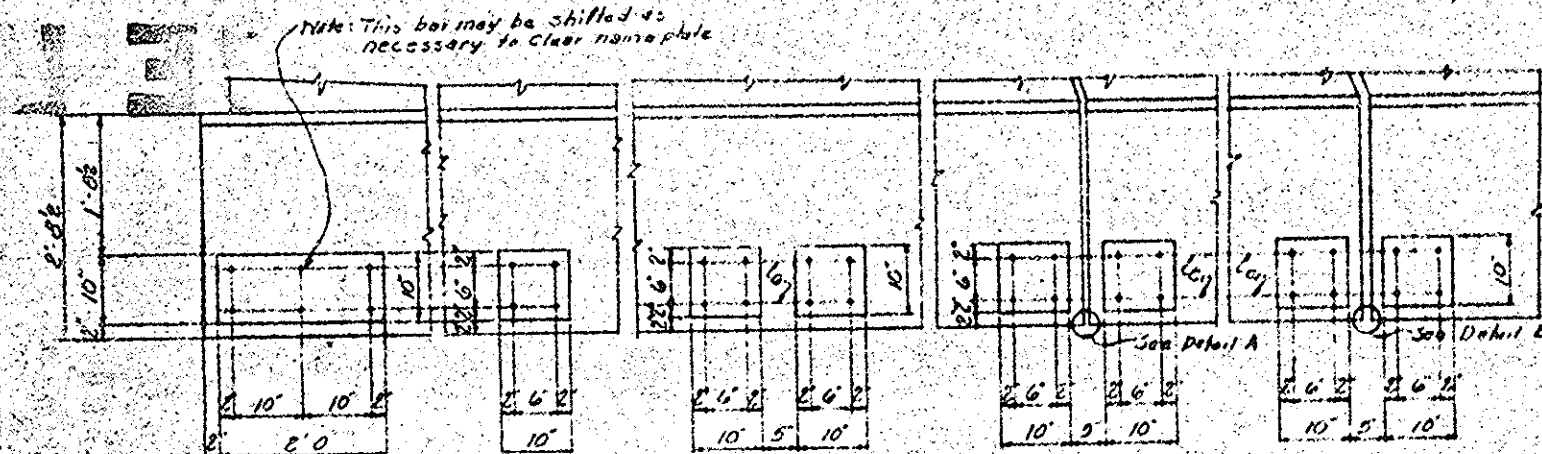


SECTION THRU CURB



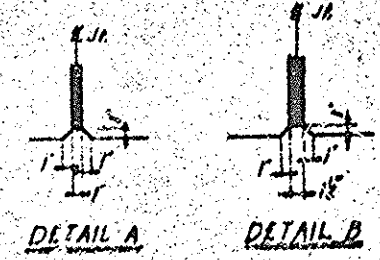
TYPICAL SECTION
SHOWING INTERIOR DIAPHRAGM

Note: One end of the diaphragm channel, to be shop welded to the plate and the other end field welded to the beam.



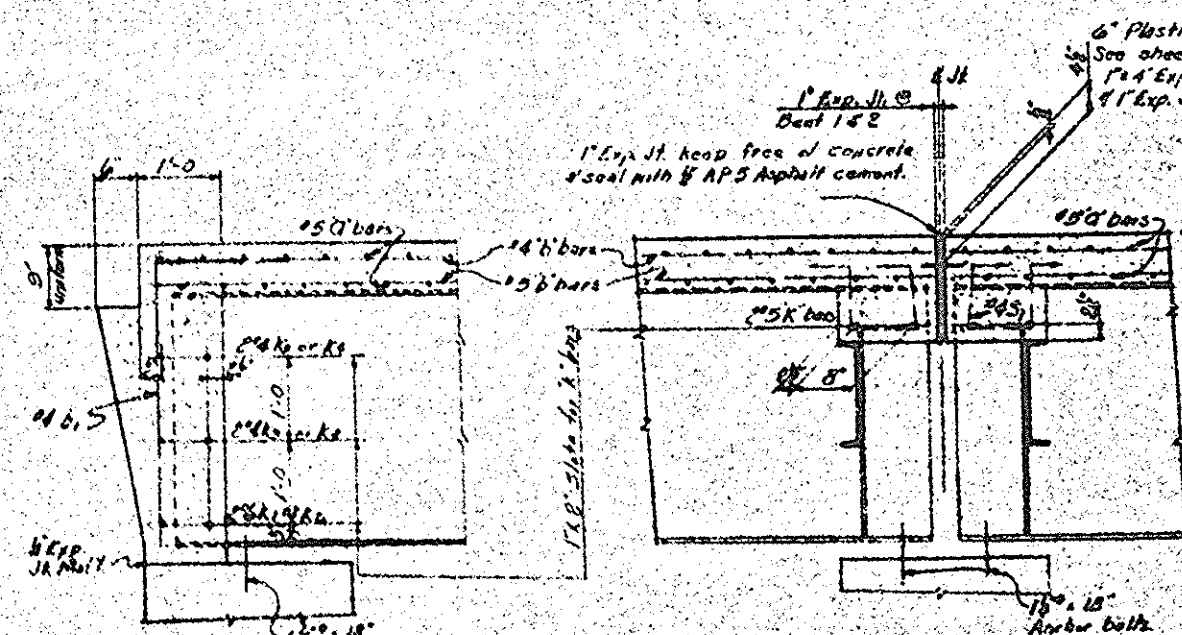
POST DETAILS

NOTE: Post dimensions normal to rail are at post base.

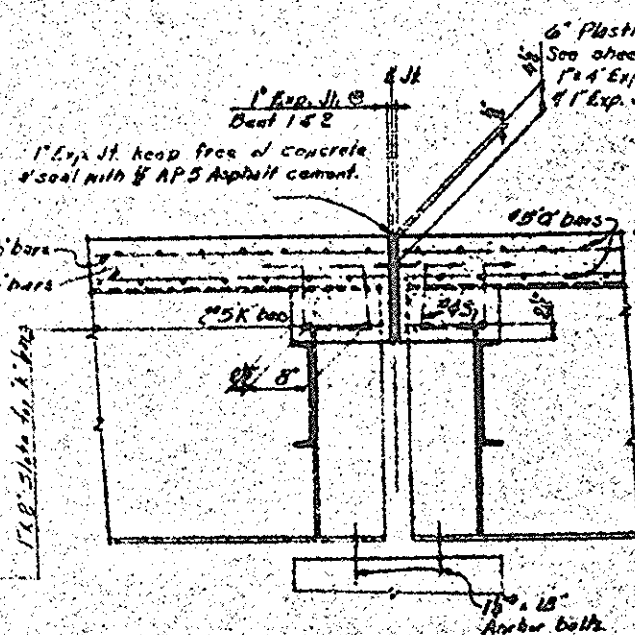


DETAIL A

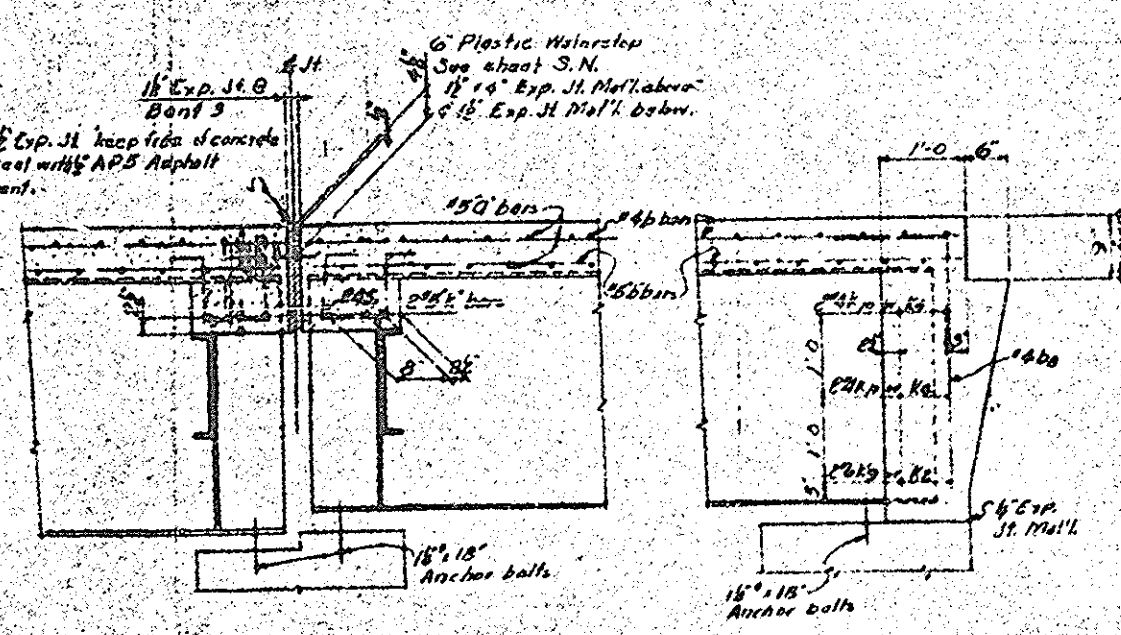
DETAIL B



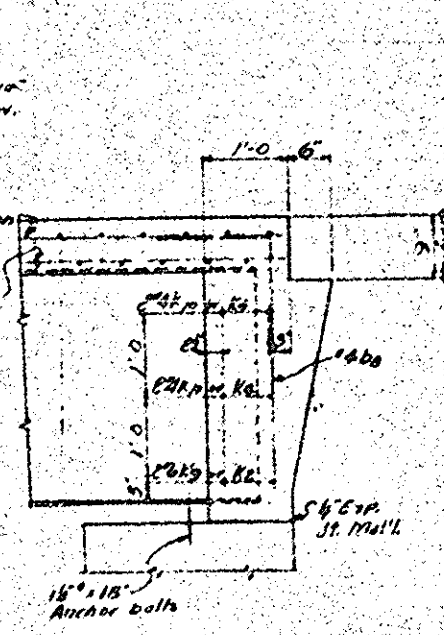
SECTION A-A



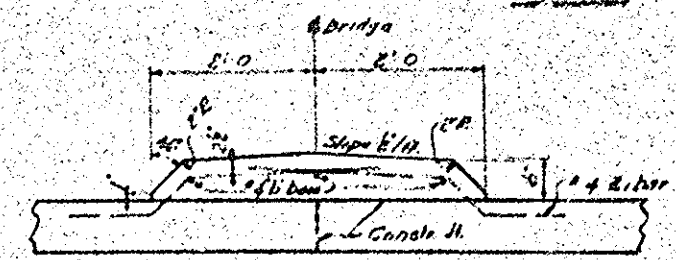
SECTION B-B



SECTION C-C

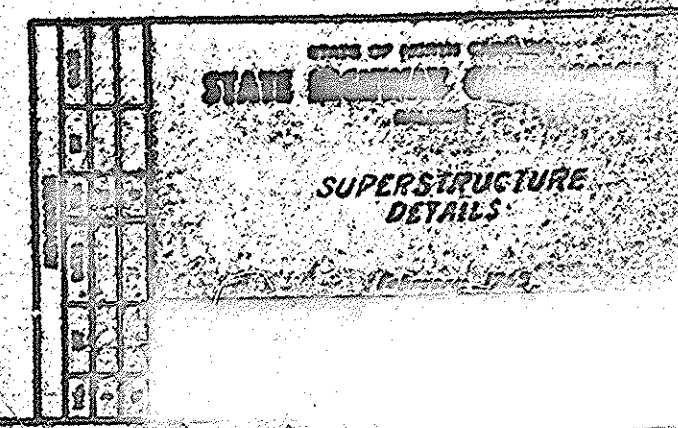


SECTION D-D



DETAIL OF MEDIAN STRIP

PROJECT No. B.194-56
HAYWOOD
STATION 251+25.0112 R.O.C.



The drawing is a technical plan view of a bridge deck, divided into three spans by two bents. The spans are labeled SPAN A, SPAN B, and SPAN C. The bents are labeled Bent #1 and Bent #2. The drawing includes numerous dimensions, angles, and labels for various components like beams, girders, and structural members. The layout is complex, with many small rectangular sections and lines indicating the structural details of the bridge deck. The drawing is oriented horizontally, with the bridge axis running from left to right. The spans are separated by two bents, which are shown as vertical structures. The drawing includes many dimensions, such as lengths and angles, and labels for various components, such as beams, girders, and structural members. The drawing is a detailed technical drawing, showing the structural layout of the bridge deck.

* No camber required other than natural mill camber

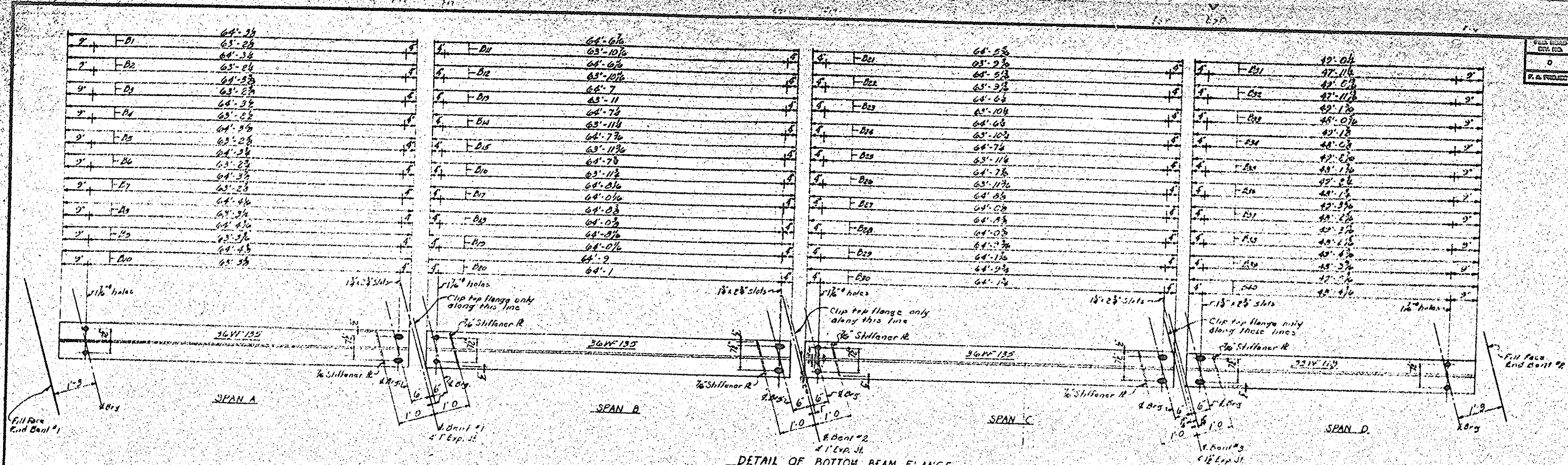
PROJECT NO. 812436
HAYWOOD COUNTY
 STATION: 353+25.81 B.P.O.C.

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
STRUCTURAL STEEL
LAYOUT

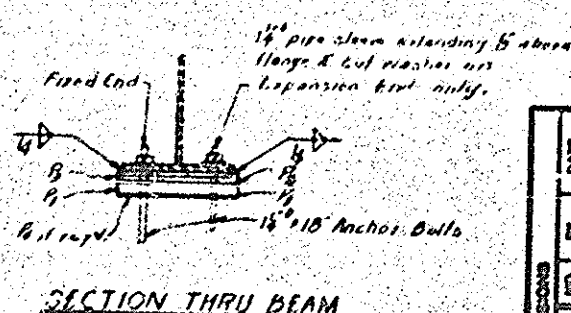
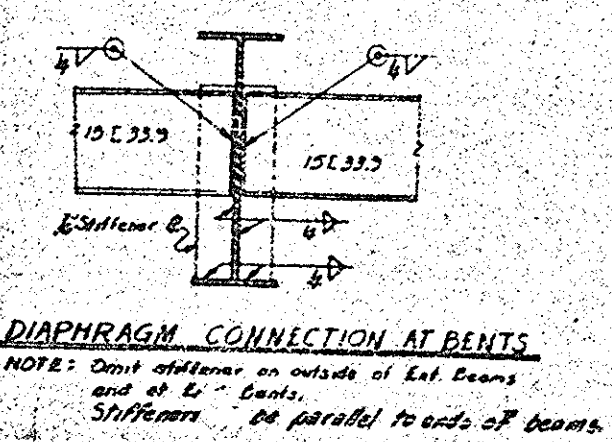
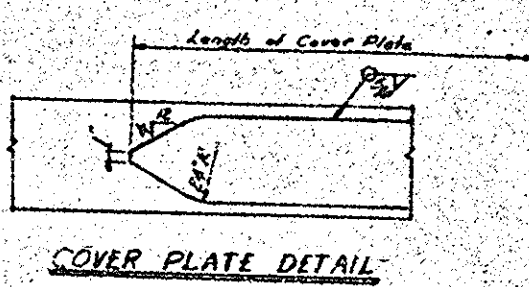
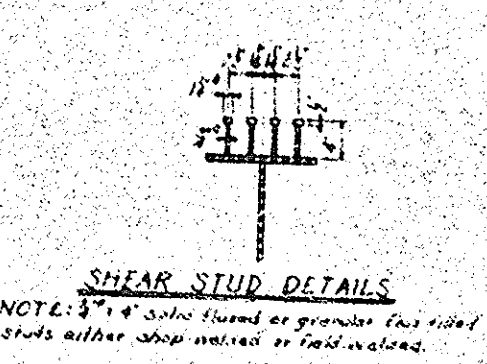
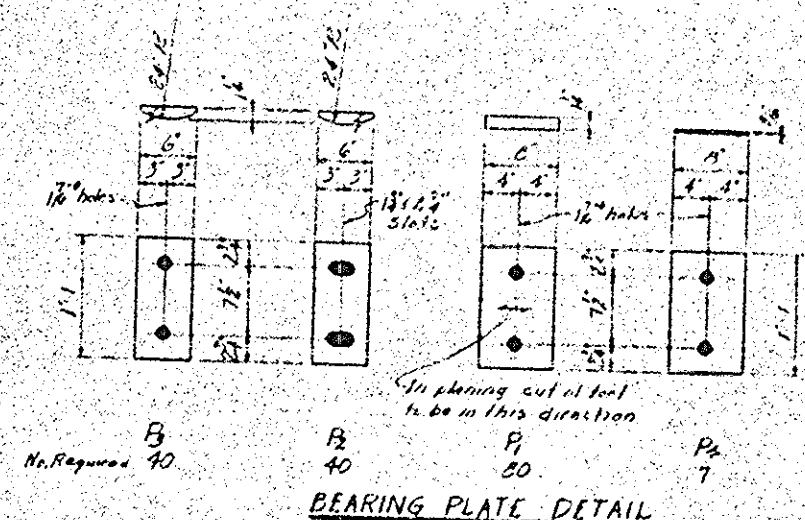
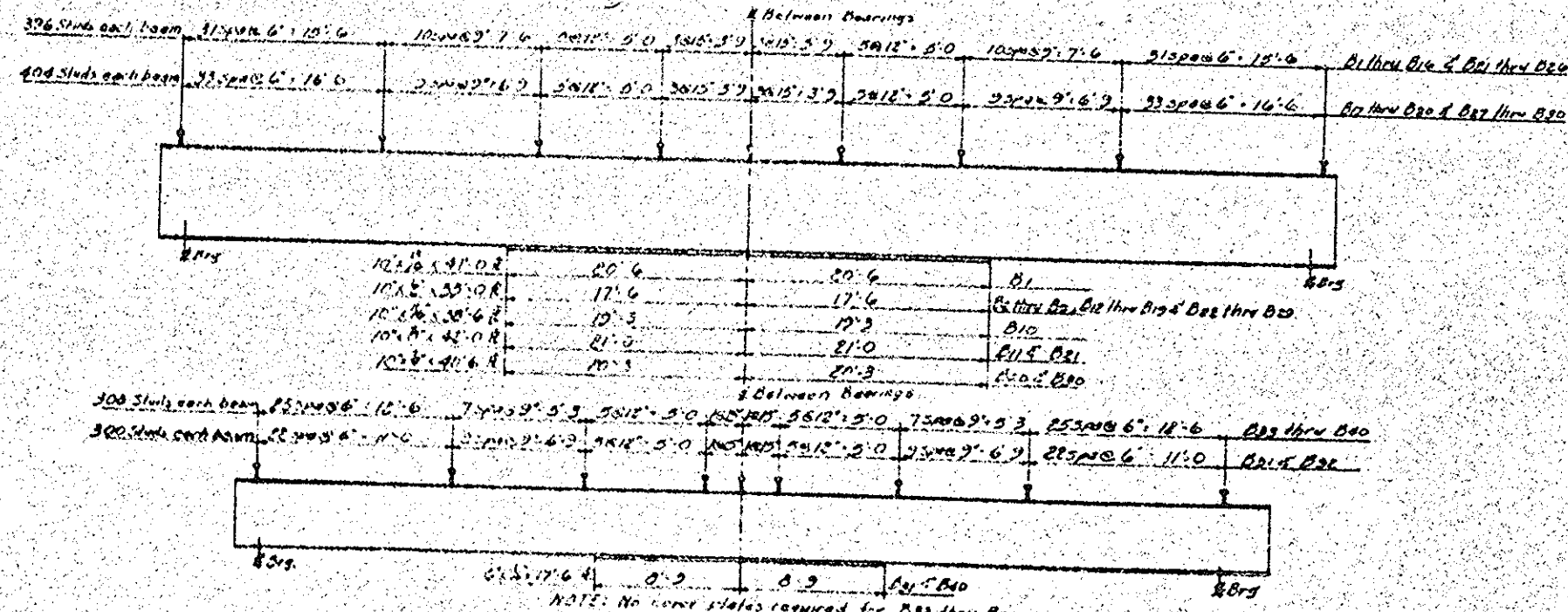
REVISIONS					
REV	BY	DATE	REV	BY	DATE
1			2		

ORDERED BY [Signature] DATE Feb 1967
 CHECKED BY [Signature] DATE Feb 28

FIELD NO.	STATE	PROJECT NO.
0	N.C.	812456
P. & PROJECT		
61	65	105



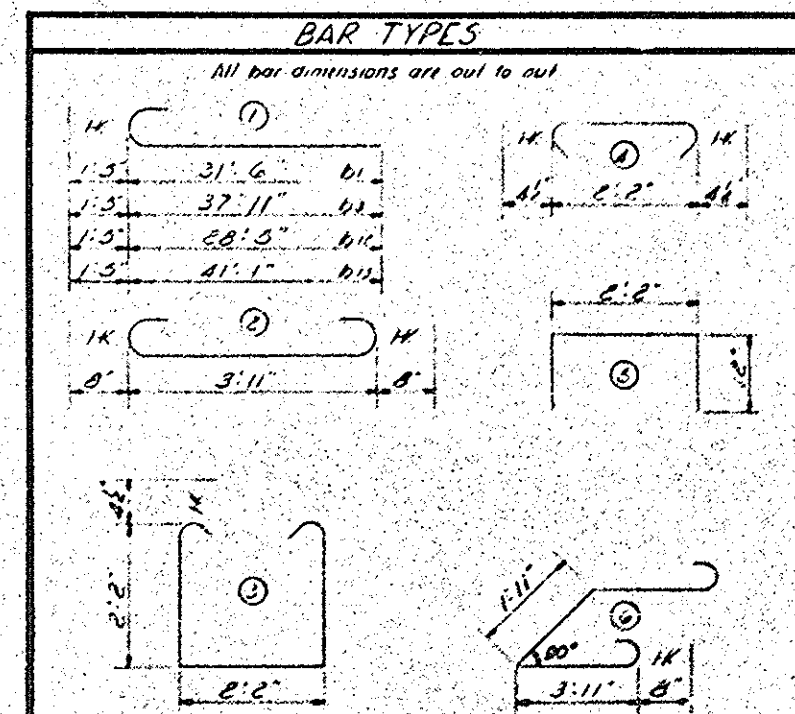
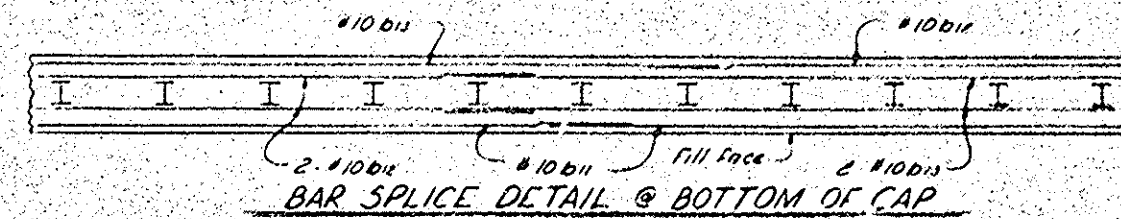
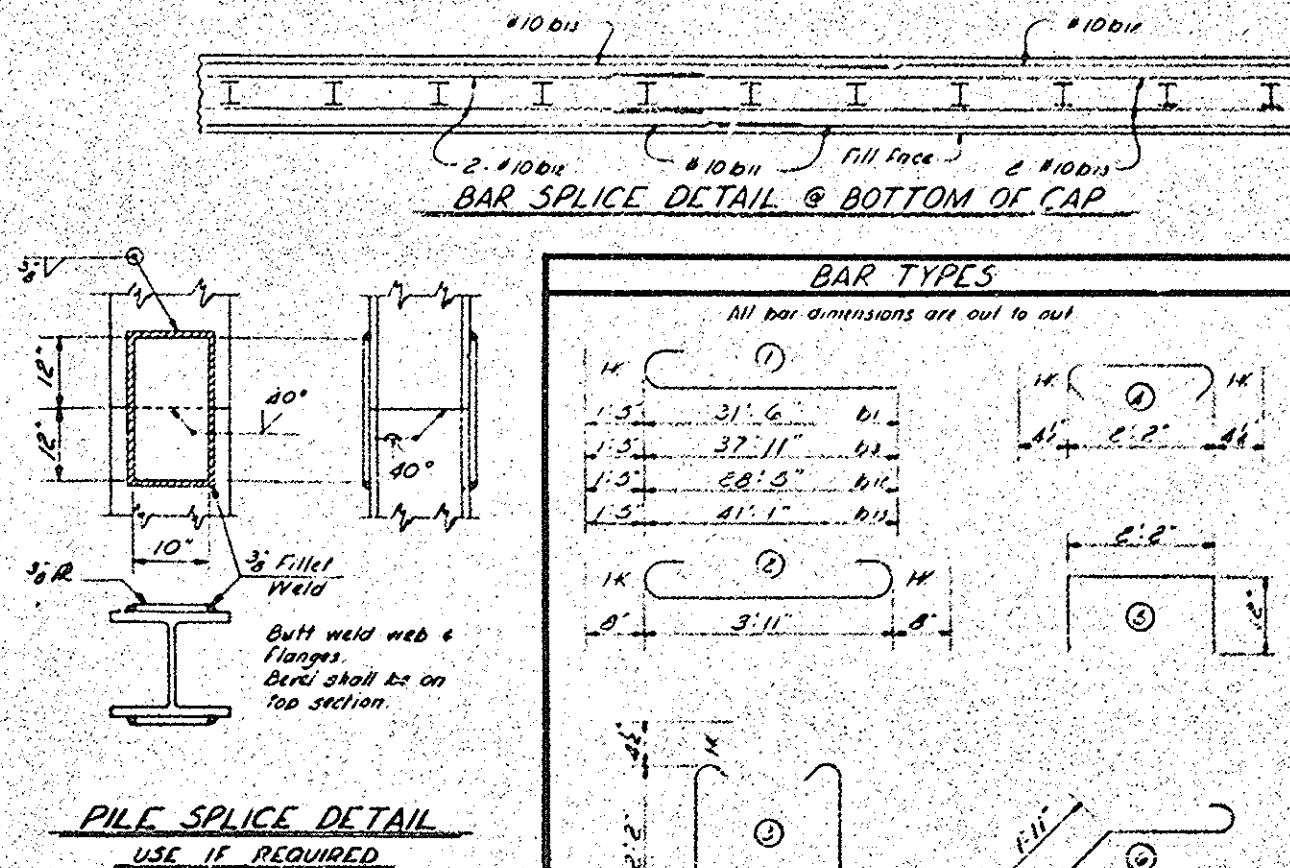
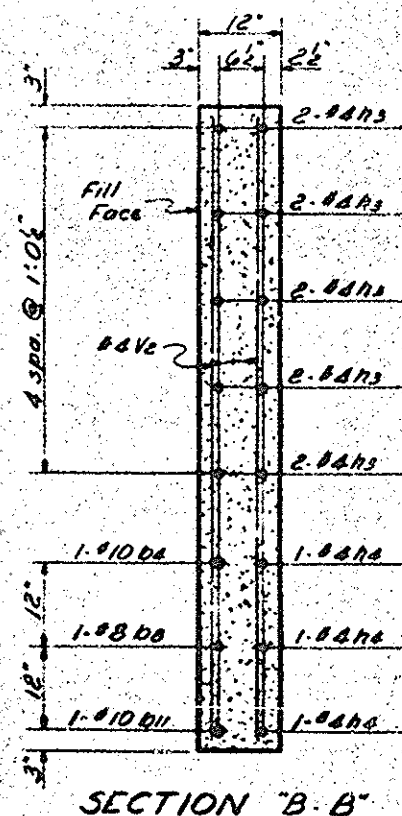
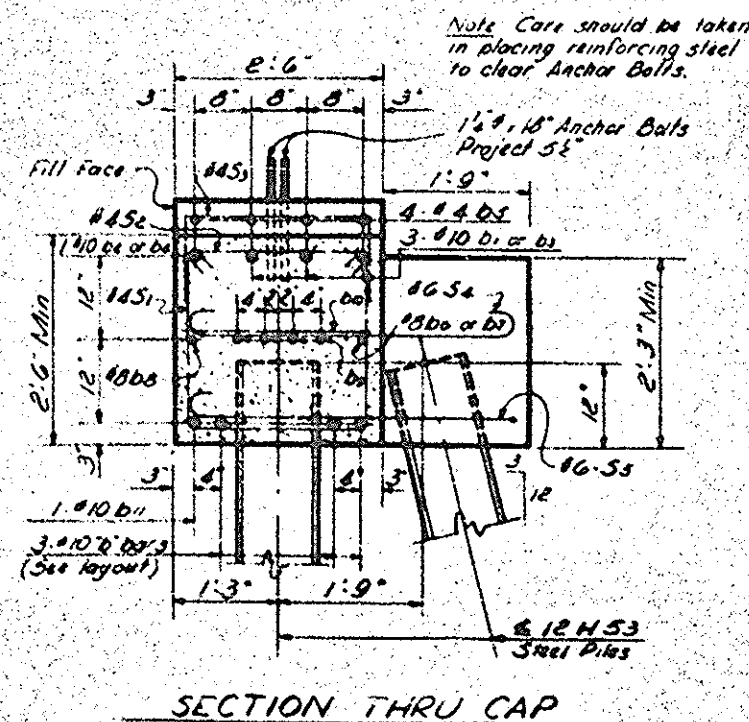
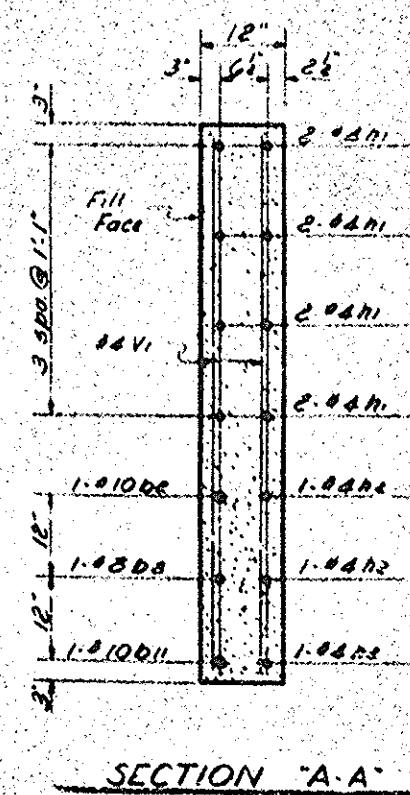
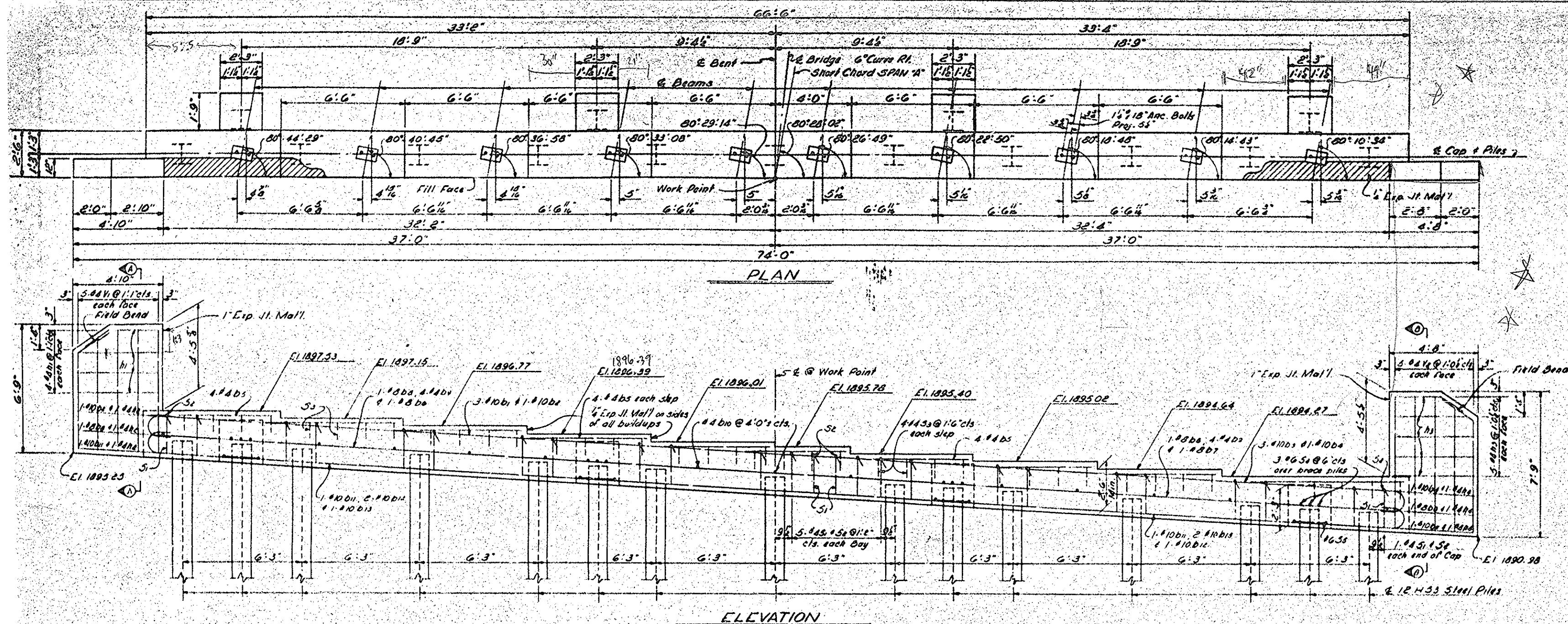
NOTE: For location of slots in beam webs for 7/8" bars and interior diaphragm details see superstructure sections.



PROJECT No. 812456
HAYWOOD COUNTY
STATION 353+25.81 B P.O.C.

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
STRUCTURAL STEEL
DETAILS
March, 1963

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 12/2/62
DATE: 1/2/63

[illegible]

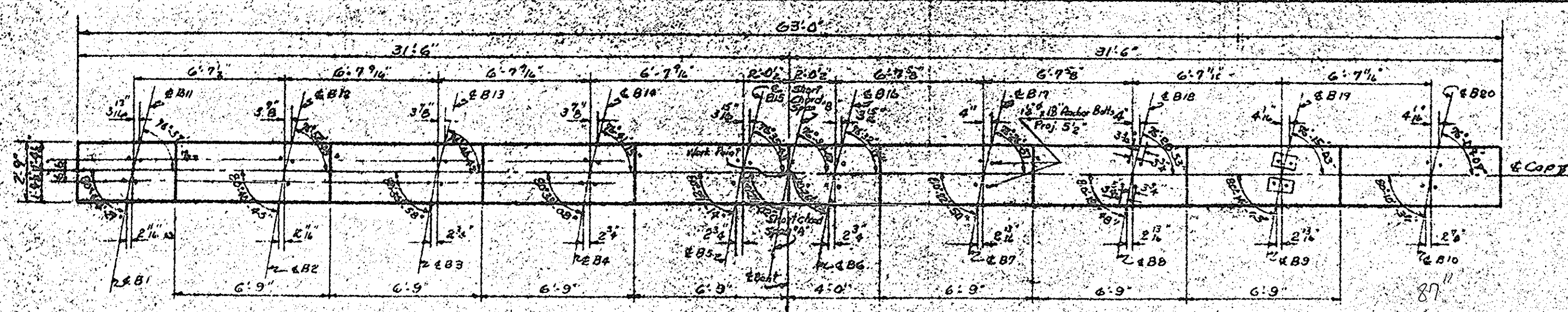
PROJECT NO. 819456
HAYWOOD COUNTY
STATION: 353+25.81 L+P.O.C.

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

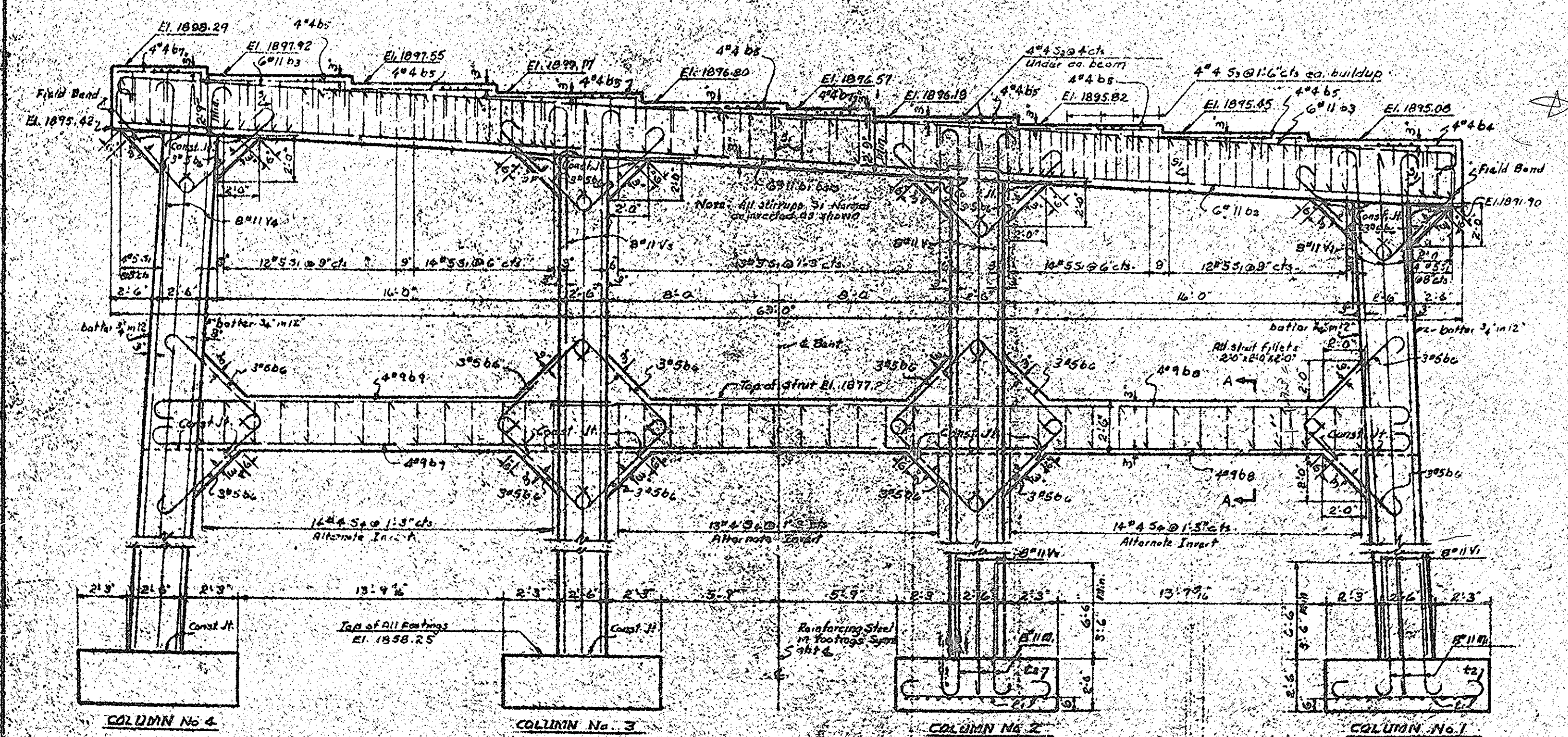
SUBSTRUCTURE
END BENT No. 1

MARCH 1963

REVISIONS						S-//
NO.	BY	DATE	NO.	BY	DATE	
1			2			
3			4			

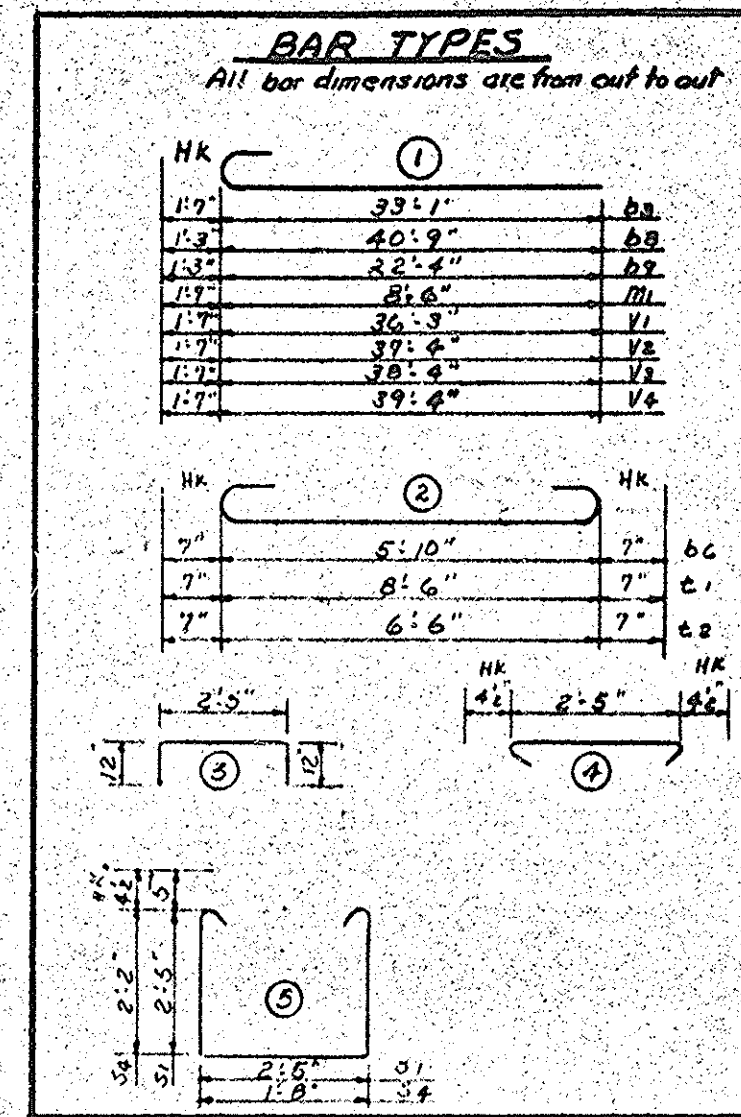
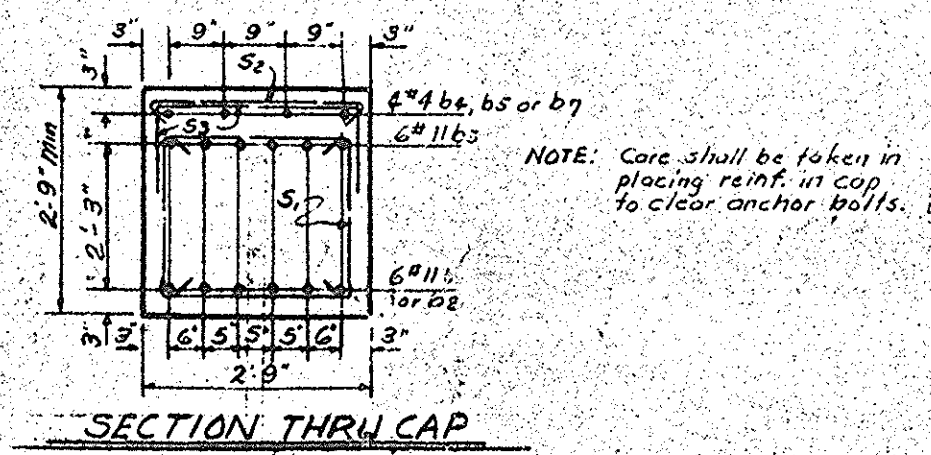
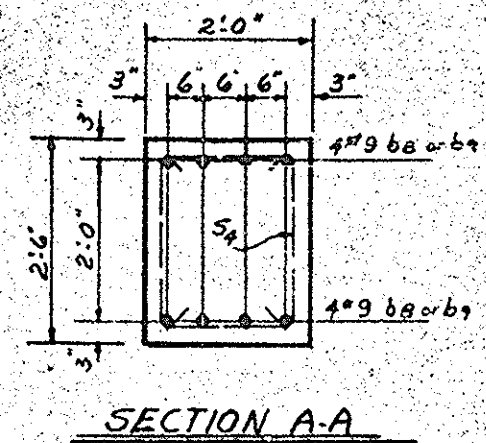
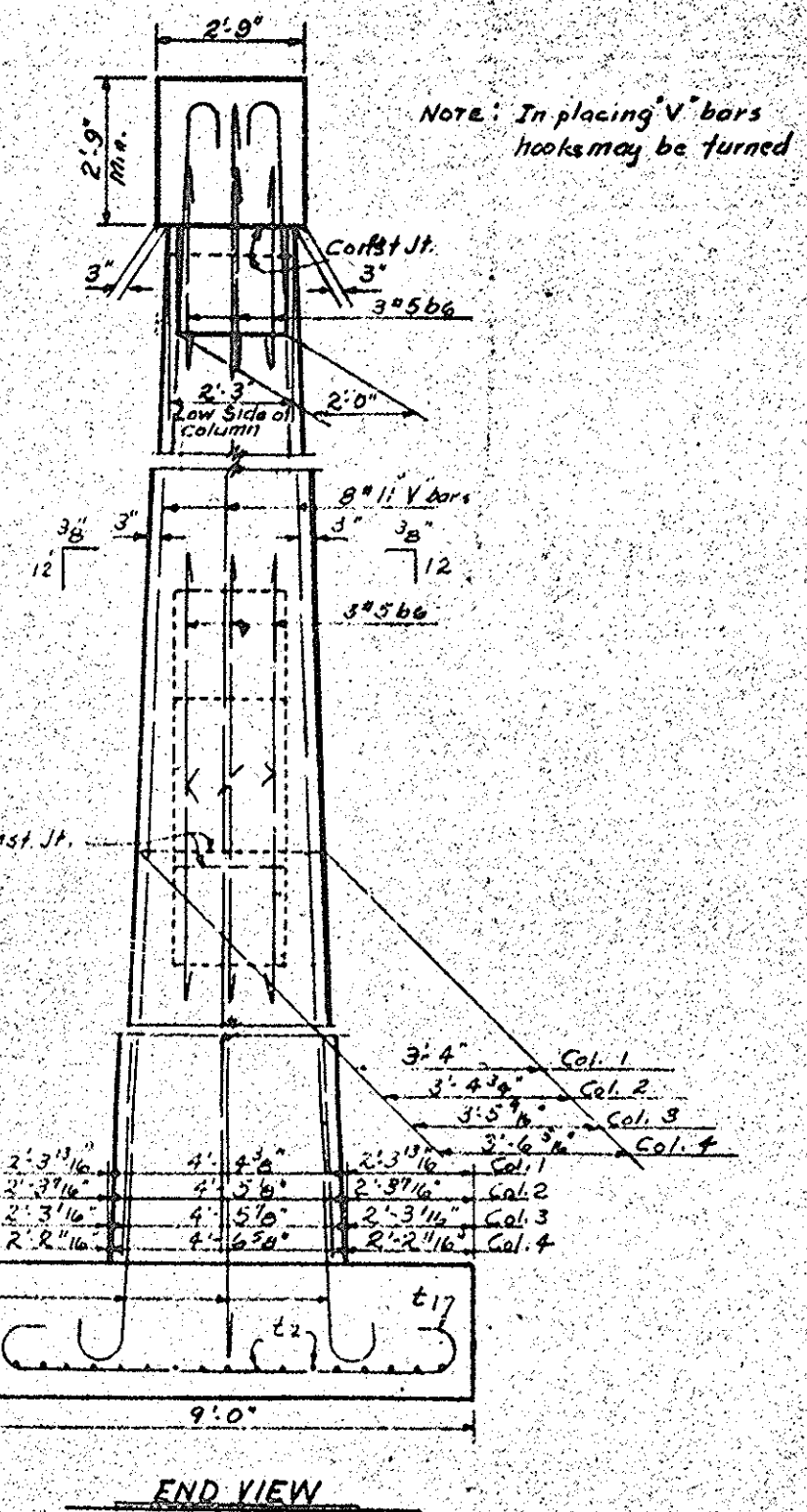


PLAN OF CAP

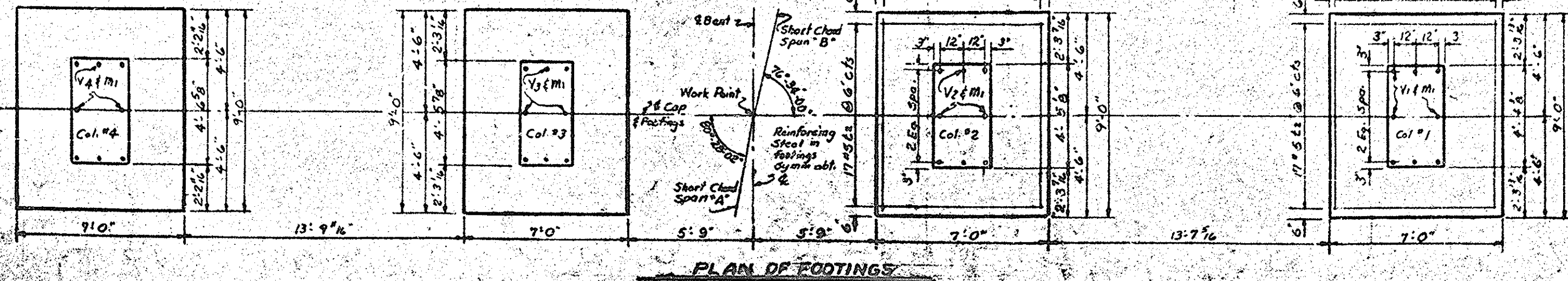


ELEVATION

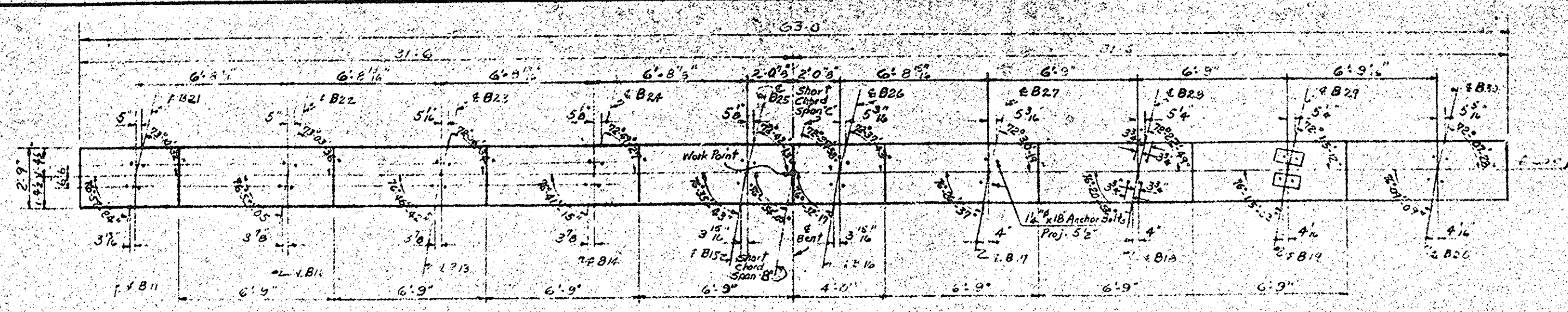
PROJECT No. 8.19456
 HAYWOOD COUNTY
 STATION 353+25 L2
 Sheet No. 1 of 2
 STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALPH
 SUBSTRUCTURE
 BENT NO. 1
 APRIL 1953



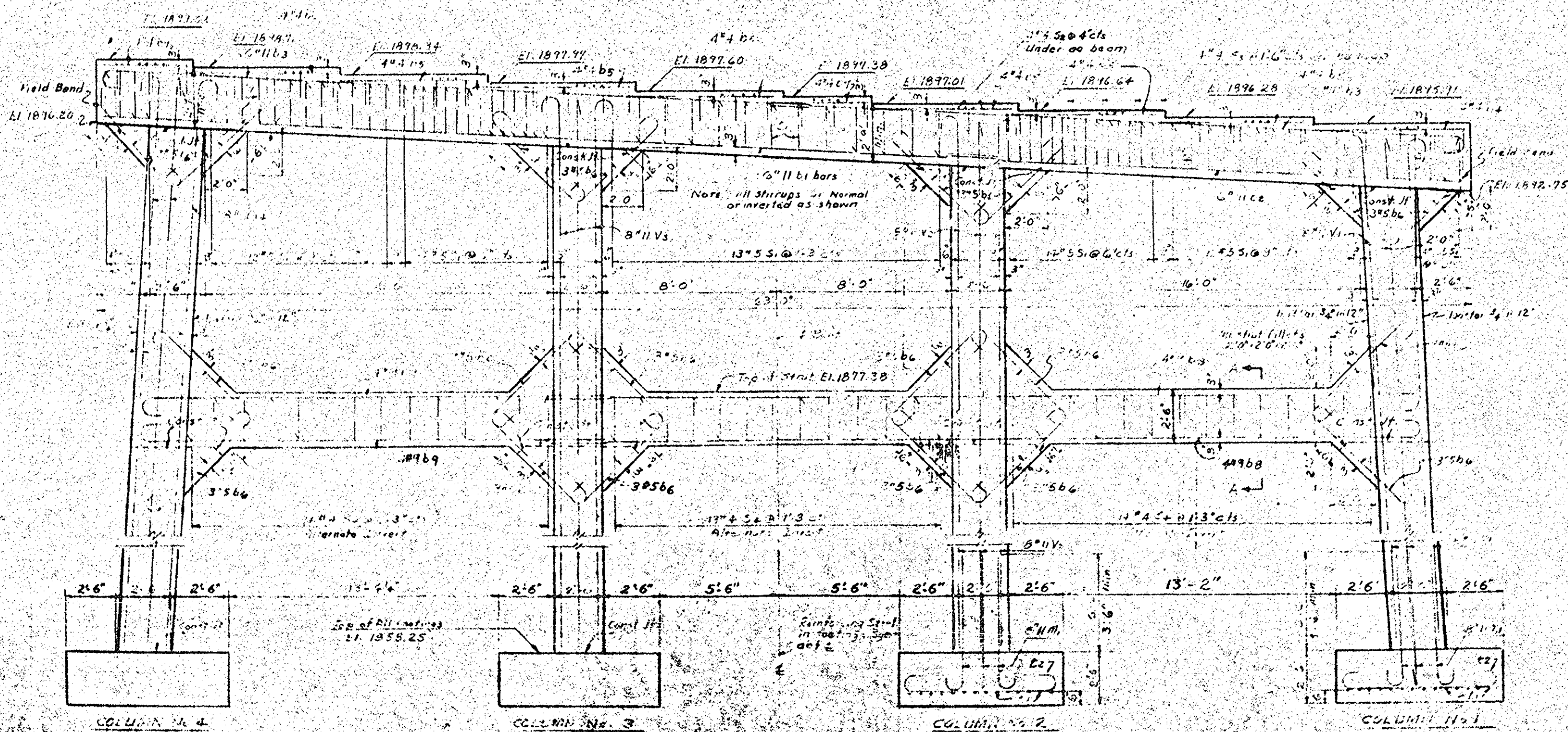
BILL OF MATERIAL FOR BENT NO. 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
b1	6	#11	str	42'-10"	1365
b2	6	#11	str	24'-4"	776
b3	12	#11	1	32'-8"	2210
b4	4	#4	str	7'-3"	19
b5	20	#4	str	6'-9"	126
b6	60	#5	2	7'-0"	438
b7	8	#4	str	4'-0"	21
b8	8	#9	1	42'-0"	1162
b9	8	#9	1	23'-7"	681
m1	32	#11	1	10'-1"	1714
v1	8	#11	1	37'-10"	1600
v2	8	#11	1	38'-11"	1656
v3	8	#11	1	39'-11"	1677
v4	8	#11	1	40'-11"	1739
s1	13	#5	5	8'-1"	615
s2	40	#4	4	3'-2"	86
s3	39	#4	3	4'-5"	115
s4	41	#4	5	6'-9"	185
t1	56	#5	2	9'-8"	565
t2	68	#5	2	7'-8"	544
Reinforcing Steel Lbs. 17,259					
5/355 A Concrete					
Pour # 1 (footings) 22.325					
Pour # 2 24.9					
Pour # 3 31.2					
Pour # 4 19.0					
TOTAL Cu. Yds. 98.4					



FILE NO.	15174
STATE	N.C.
PROJECT NO.	9-10-1103
DATE	6/6
BY	195



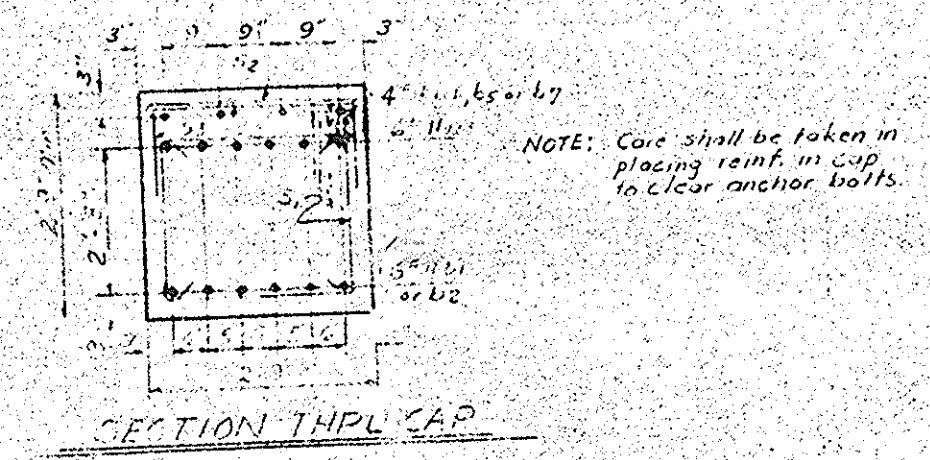
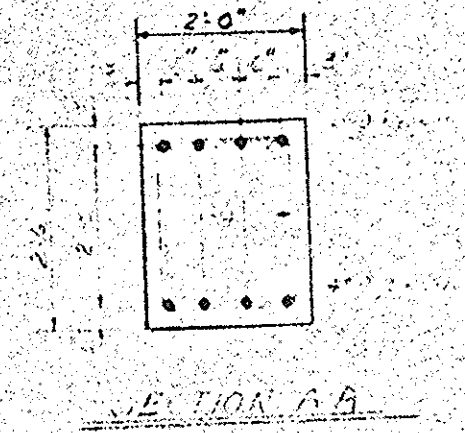
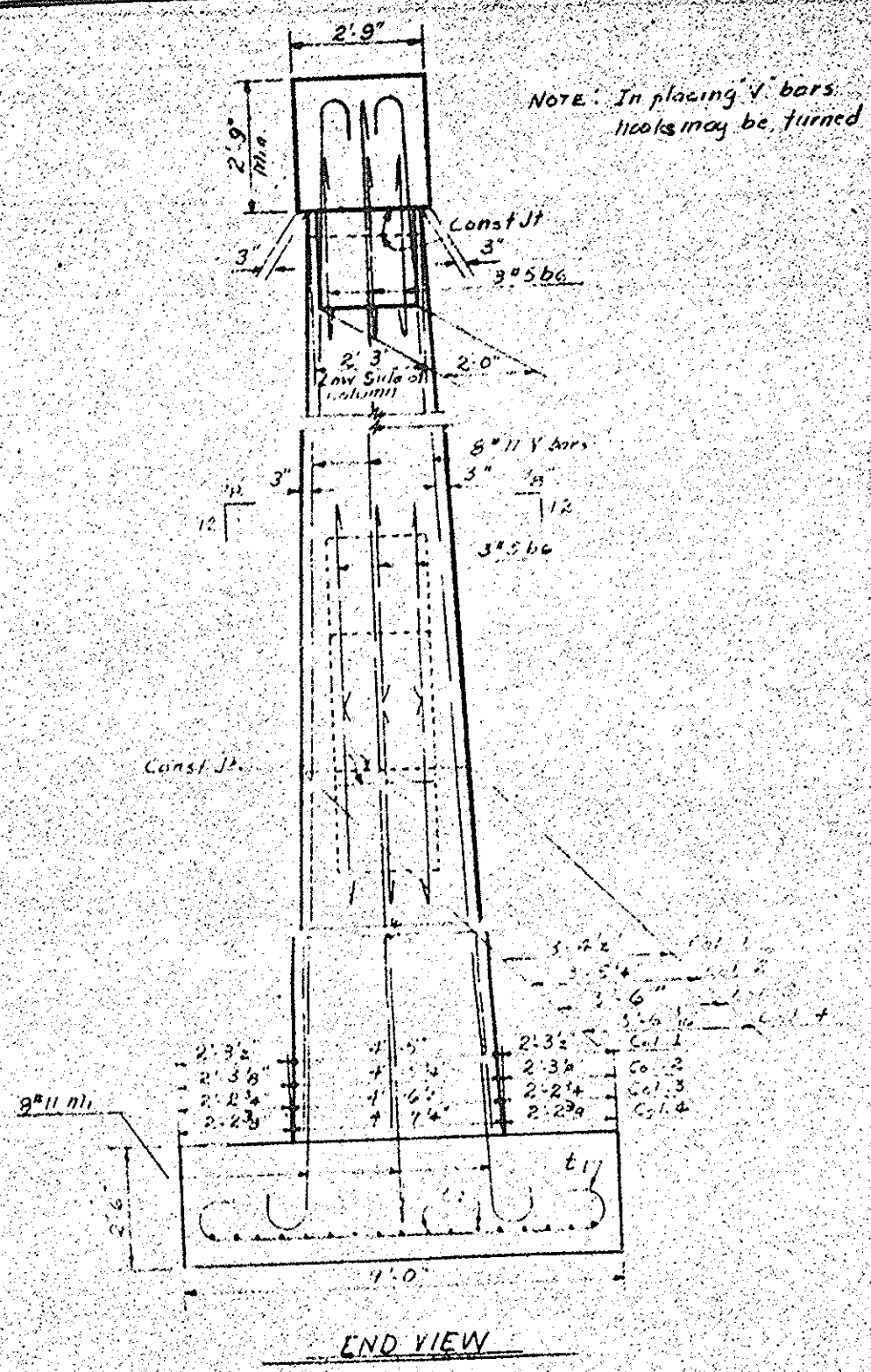
PLAN OF CAP



ELEVATION

PROJECT No. 9-10-1103
 HAYWOOD COUNTY
 STATION 252+25.42

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
RALEIGH	
SUPERSTRUCTURE	
BENT NO. 2	
195 - 1963	

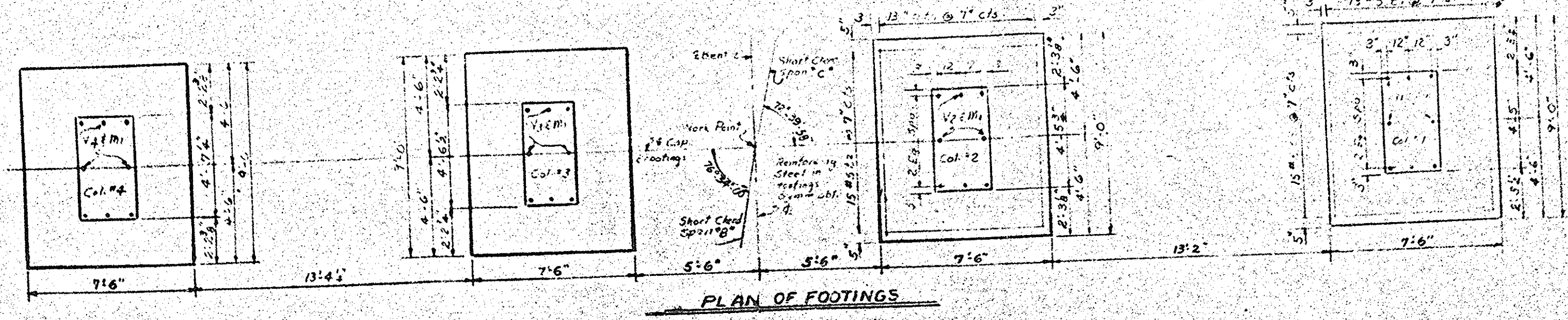


BAR TYPES

NO.	SIZE	TYPE	LENGTH	WEIGHT
1	3#5	Top	42'-10"	36.5
2	3#5	Bottom	42'-10"	36.5
3	3#5	Stem	7'-3"	9.9
4	3#5	Stem	7'-0"	9.5
5	3#5	Stem	4'-0"	2.1
6	3#5	Stem	42'-0"	114.2
7	3#5	Stem	23'-7"	64.1
8	3#5	Stem	10'-1"	17.4
9	3#5	Stem	15'-1"	16.9
10	3#5	Stem	16'-7"	17.9
11	3#5	Stem	17'-7"	17.9
12	3#5	Stem	8'-1"	6.5
13	3#5	Stem	3'-2"	5.6
14	3#5	Stem	4'-5"	11.5
15	3#5	Stem	6'-1"	18.5
16	3#5	Stem	2'-4"	5.2
17	3#5	Stem	19'-2"	51.1

BILL OF MATERIAL FOR BENT NO. 2

NO.	SIZE	TYPE	LENGTH	WEIGHT
1	3#5	Top	42'-10"	36.5
2	3#5	Bottom	42'-10"	36.5
3	3#5	Stem	7'-3"	9.9
4	3#5	Stem	7'-0"	9.5
5	3#5	Stem	4'-0"	2.1
6	3#5	Stem	42'-0"	114.2
7	3#5	Stem	23'-7"	64.1
8	3#5	Stem	10'-1"	17.4
9	3#5	Stem	15'-1"	16.9
10	3#5	Stem	16'-7"	17.9
11	3#5	Stem	17'-7"	17.9
12	3#5	Stem	8'-1"	6.5
13	3#5	Stem	3'-2"	5.6
14	3#5	Stem	4'-5"	11.5
15	3#5	Stem	6'-1"	18.5
16	3#5	Stem	2'-4"	5.2
17	3#5	Stem	19'-2"	51.1

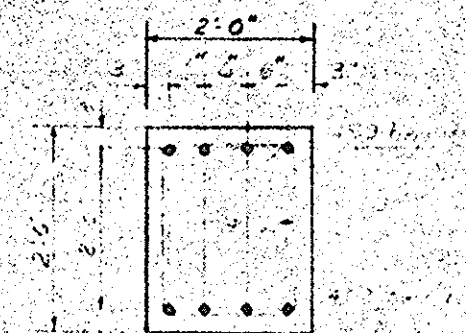


PROJECT NO. 2-19456
 COUNTY
 STATION: 353+25.43

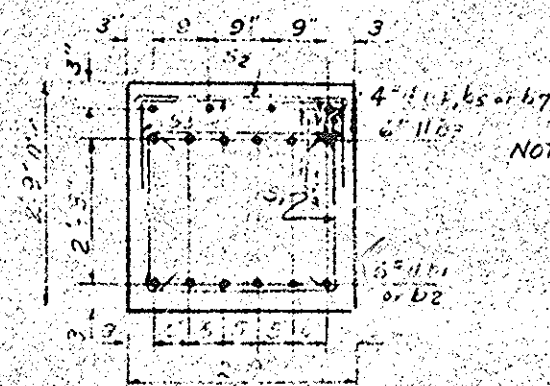
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BENT NO. 2

APRIL 1963



SECTION A A



SECTION THRU CAP

NOTE: Care shall be taken in placing reinf. in cap to clear anchor bolts.

BAR TYPES

BILL OF MATERIAL
FOR BENT NO. 2

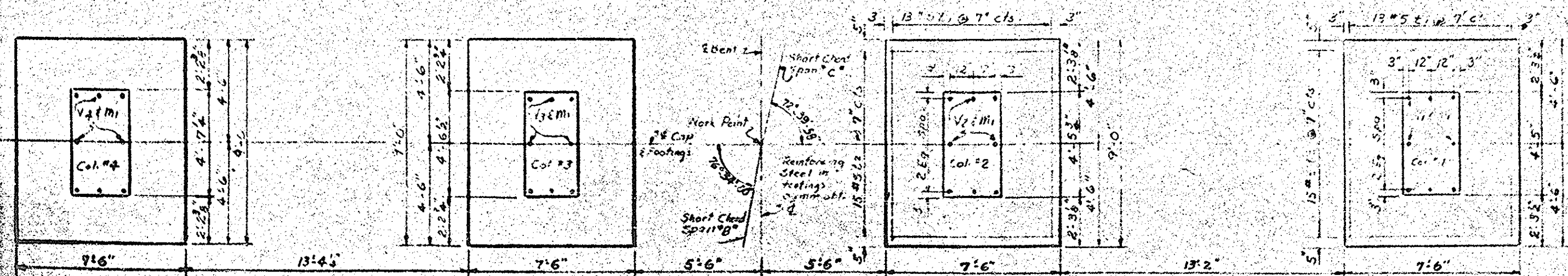
DAP	NO.	SIZE	TYPE	LENGTH	WEIGHT
	6	11	51"	42'-10"	165
		11	"	24'-4"	172
	12	11	1	14'-8"	221
	4	"	"	7'-3"	9
	28	"	"	6'-3"	120
	0	"	"	7'-0"	43
	"	"	"	4'-0"	28
	"	"	"	42'-0"	113
	"	9	1	23'-7"	64

5' 10"	B	16.9
8' 6"	B	16.9
7' 0"	B	17.3
	B	17.7

2'S	13	5	5	8:17	615
	40			3:20	54
	39			7:5	115
				6:3	185

5	31.84	528
5	31.84	511

Regn	500	11,330
Cost		
" 1		25.00
" 2		25.5
" 3		32.1
" 4		18.9
Total		101.5
		106.17



PLAN OF FOOTINGS

PROJECT NO. 819456

...COUNTY

STATION: 353125 L2

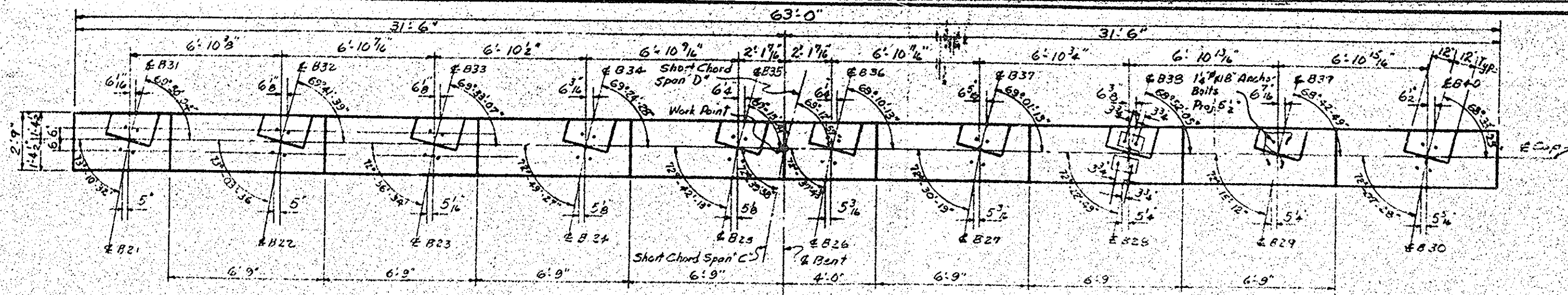
Sheet No 2 of 2

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

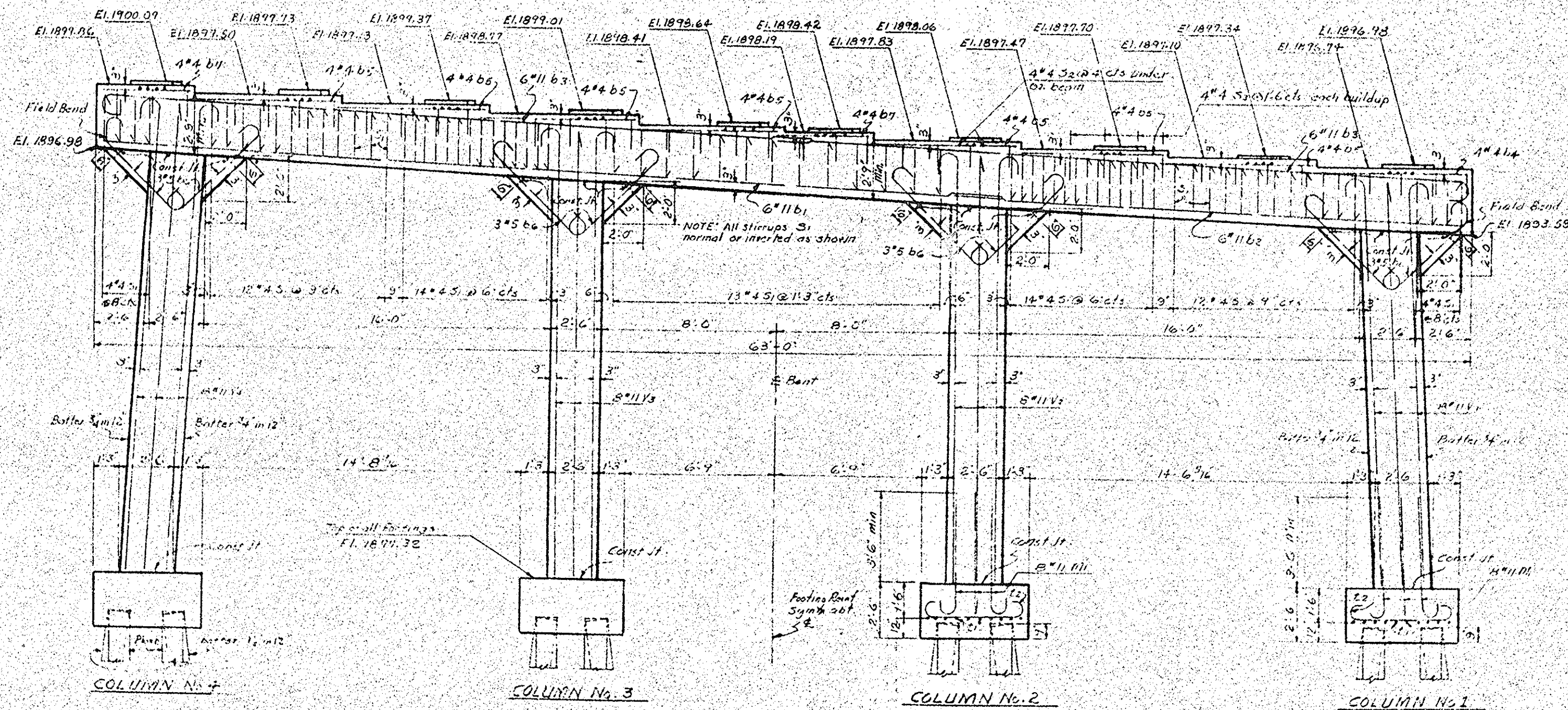
SUBSTRUCTURE
BENT NO. 2

APRIL 1963

[illegible]



PLAN OF CAP



ELEVATION

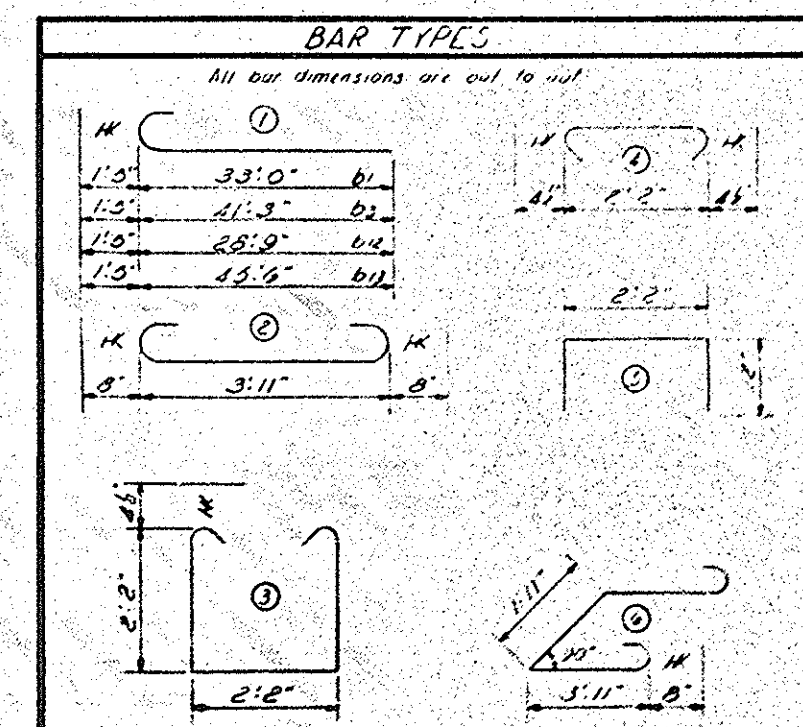
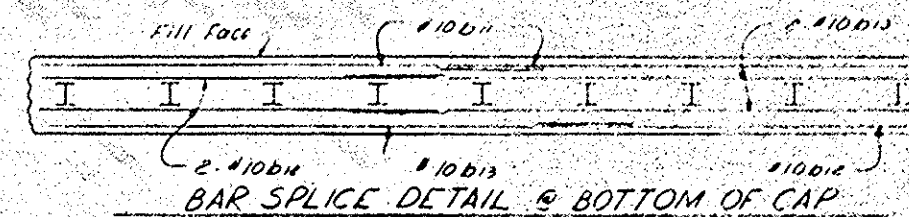
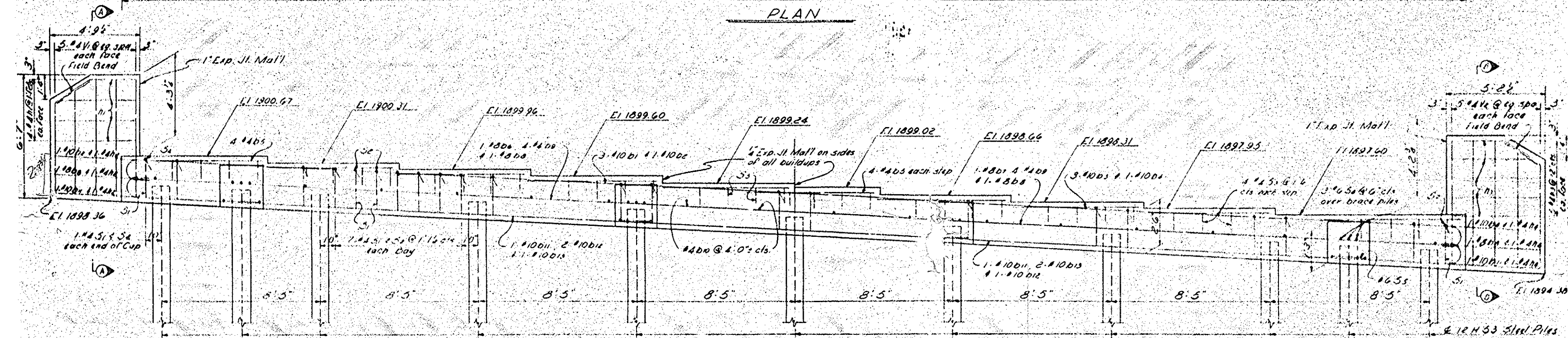
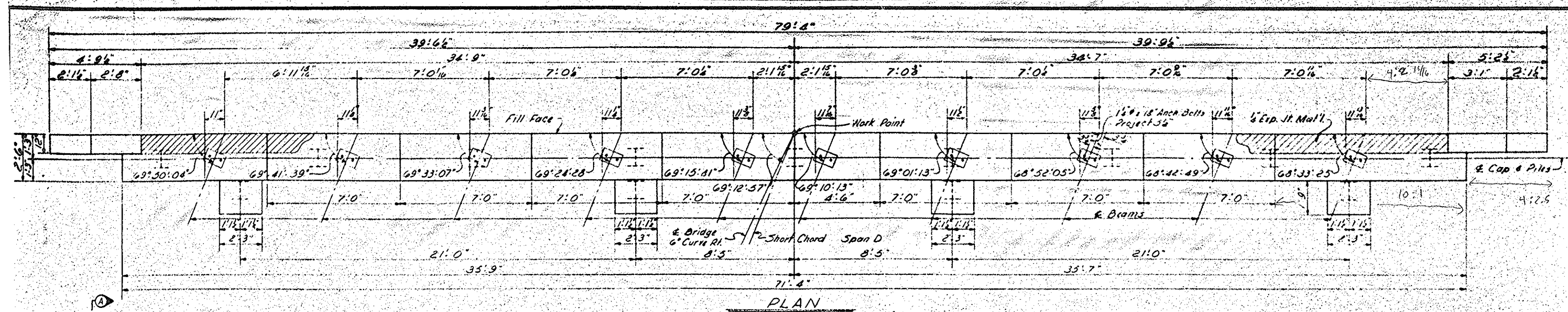
PROJECT No. 8.19456
HAYWOOD COUNTY
STATION 353+25 L2

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
SUBSTRUCTURE
BEIT NO. 3

APRIL 1963

DATE	BY	REVISION
5/16/63	W. H. H.	1
5/16/63	W. H. H.	2
5/16/63	W. H. H.	3
5/16/63	W. H. H.	4
5/16/63	W. H. H.	5
5/16/63	W. H. H.	6
5/16/63	W. H. H.	7
5/16/63	W. H. H.	8
5/16/63	W. H. H.	9
5/16/63	W. H. H.	10

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BILL OF MATERIAL
END BENT No. 2

SAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
D1	3	#10	1	34.3	448
D4	1	#10	5H	45.3	195
D3	3	#10	1	42.8	551
D4	1	#10	5H	37.1	160
D5	40	#8	1	7.0*	187
D6	1	#8	1	49.6	132
D7	1	#8	1	24.1	68
D8	2	#8	1	40.9	218
D9	12	#8	1	24.6	196
D10	16	#8	1	2.2	23
D11	2	#10	5H	41.2	334
D12	3	#10	1	35.2	389
D13	3	#10	1	46.11	606

n_1	8	44	Str.	4:5	24
n_2	3	44	Str.	5:1	11
n_3	10	44	Str.	4:10	32
n_4	5	44	Str.	4:0	12

Sr.	58	04	3	7'3"	281
Sr.	58	00	4	2'11"	113
Sr.	40	04	3	4'2"	111
Sr.	12	06	2	3'3"	95
Sr.	4	06	6	11'1"	67
V.	10	04	511	6'7"	44
V.	10	00	511	7'2"	48

Reinforcing Steel Lbs. • 4,357
Class 'A' Concrete Cu Yds. • 21.5
18 H.S. Steel Piles
No. 13 • Linear Feet. 585
9440

PROJECT NO. 8 19456

HAYWOOD COUNTY

STATION: 353-2581-4-PAC.

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH

Journal of Management Education 30(6)p.789-804

SUBSTRUCTURE
END BENT No. 2

MARCH 1963

MARCH 1963

REVISIONS						REVISION NO.
NO.	BY	DATE	NO.	BY	DATE	
1			1			5-18
2			2			NOTES PAGE 3
3			3			22

FILE BY J. SANTO-TOMAS DATE MARCH 1965