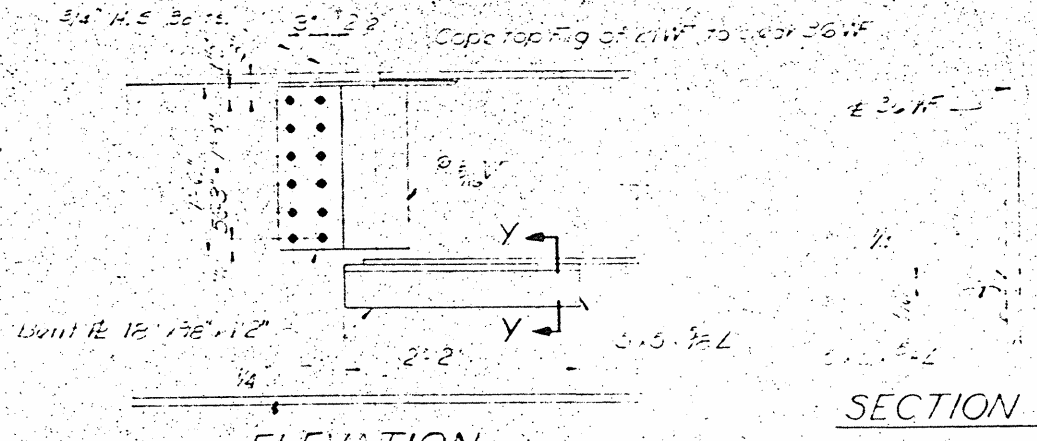
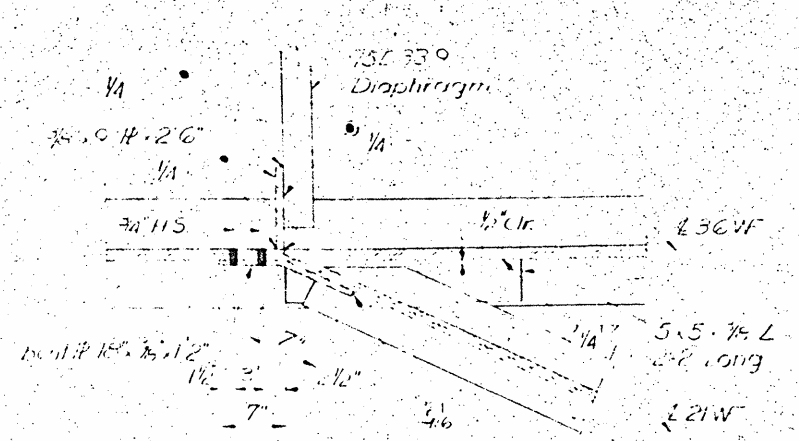
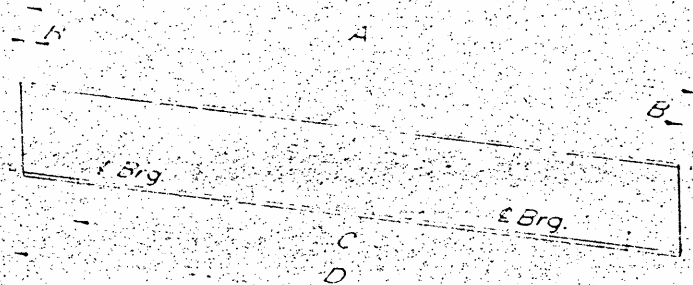




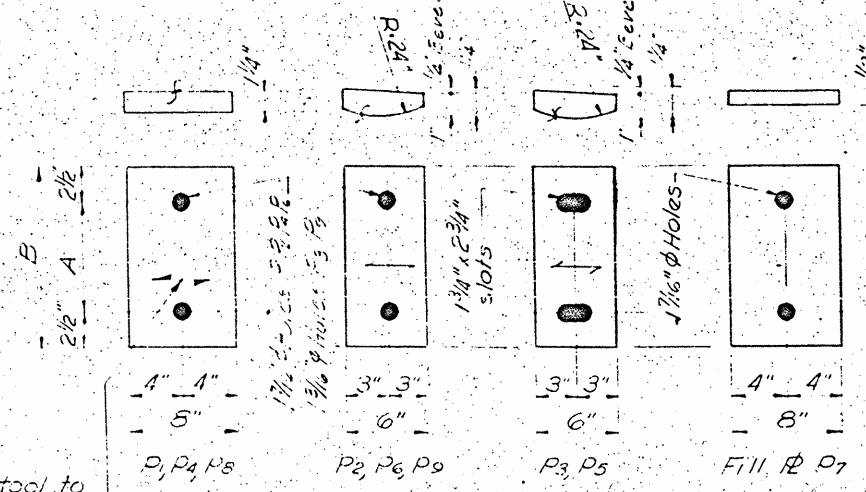
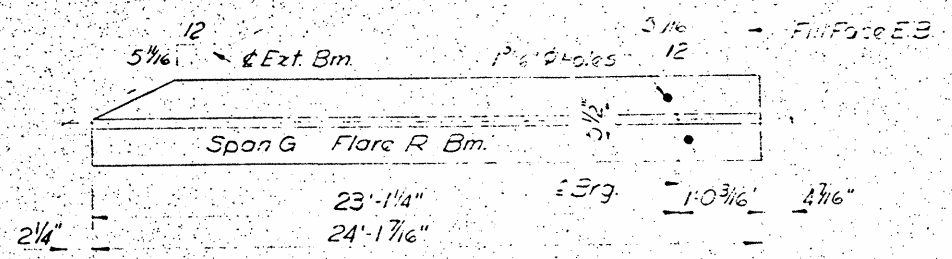
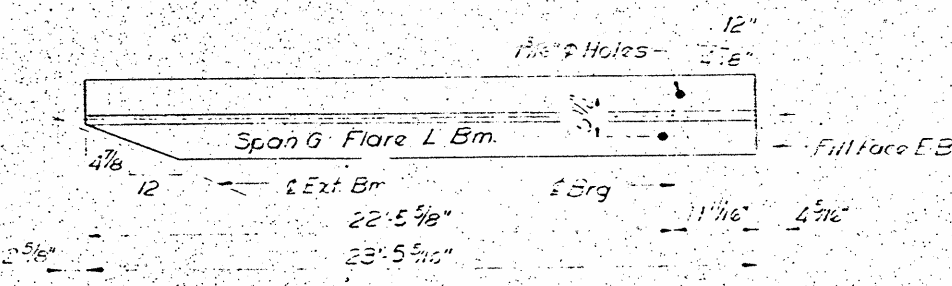
SECTION Y-Y

DETAIL "A"



SPAN	BM	A	B	C	D
4	All	11' 11 1/4"	1' 3/4"	10' 6 1/2"	
B, C, D, E, F	All	7' 10 3/8"	1' 3/4"	7' 11 1/8"	
G	Int	42' 11"	1' 11/8"	41' 6 1/4"	
G	Ext	42' 11 5/16"	1' 3/4"	41' 6 1/4"	
G	Flare L	23' 5 3/8"	1' 1/8"	22' 5 5/8"	
G	Flare R	24' 2 1/2"	1' 1/8"	23' 1 1/4"	

Fill Face EB	Span	BM	A	B	C	D
4	40' 6 1/16"	Span A All Bms.	4	2		
4	79' 1 1/8"	Spans B, C, D, E, F All Bms.	4	2		
4	4' 6 3/16"	Span G Int & Ext Bms.	4	2		
4	41' 5 1/16"	Span A All Bms.	4	2		
4	79' 9 5/8"	Spans B, C, D, E, F All Bms.	4	2		
4	42' 9 1/16"	Span G Int & Ext Bms.	4	2		



NO.	BY	DATE	NO.	BY	DATE
1	16	8	54	27	27
2	27	22	2	2	2
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99	2	2	2	2	2
100	2	2	2	2	2

DEFLECTION TABLES

Span	BM	A	B	C	D
4	All	11' 11 1/4"	1' 3/4"	10' 6 1/2"	
B, C, D, E, F	All	7' 10 3/8"	1' 3/4"	7' 11 1/8"	
G	Int	42' 11"	1' 11/8"	41' 6 1/4"	
G	Ext	42' 11 5/16"	1' 3/4"	41' 6 1/4"	
G	Flare L	23' 5 3/8"	1' 1/8"	22' 5 5/8"	
G	Flare R	24' 2 1/2"	1' 1/8"	23' 1 1/4"	

PROJECT No. 82016601
BUNCOMBE COUNTY
STATION: 10+35.50

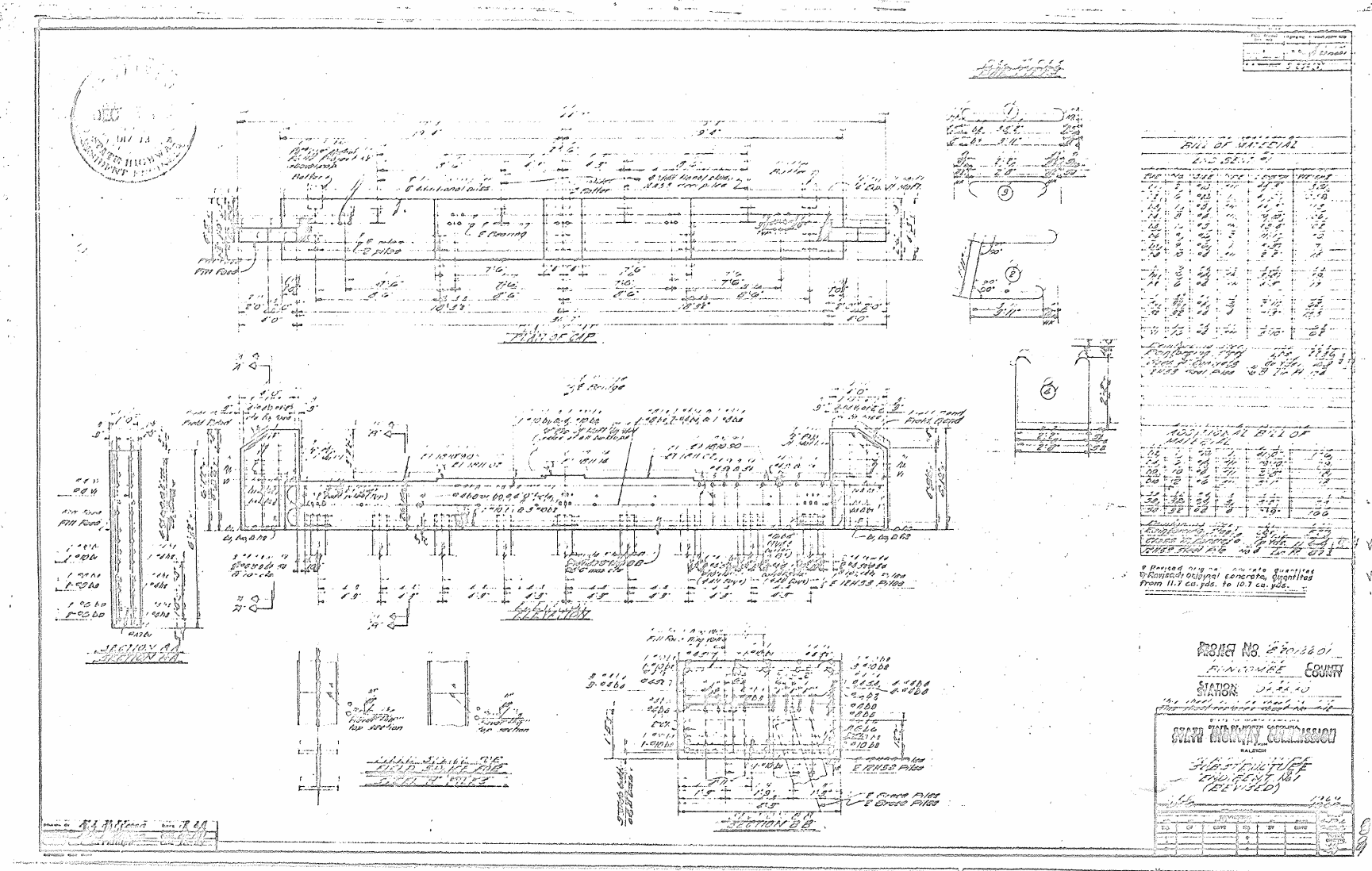
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

STRUCTURAL STEEL
DETAILS

NOV 1966

NO.	BY	DATE	NO.	BY	DATE
1	16	8	54	27	27
2	27	22	2	2	2
3	2	2	2	2	2
4	2	2	2	2	2

DESIGNED BY: R. E. Turner
DRAWN BY: R. E. Turner
CHECKED BY: R. E. Turner
DATE: NOV 66



BILL OF MATERIAL

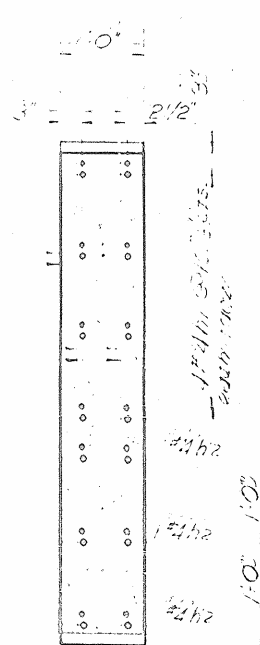
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1	100	cu yd	1.50	150.00
2	50	sq yd	2.00	100.00
3	20	lb	0.10	2.00
4	10	ft	0.50	5.00
5	5	sq ft	1.00	5.00
6	1	cu ft	0.25	0.25
7	1	sq ft	0.50	0.50
8	1	lb	0.05	0.05
9	1	ft	0.25	0.25
10	1	sq ft	0.50	0.50
11	1	cu ft	0.25	0.25
12	1	sq ft	0.50	0.50
13	1	lb	0.05	0.05
14	1	ft	0.25	0.25
15	1	sq ft	0.50	0.50
16	1	cu ft	0.25	0.25
17	1	sq ft	0.50	0.50
18	1	lb	0.05	0.05
19	1	ft	0.25	0.25
20	1	sq ft	0.50	0.50

BILL OF MATERIAL

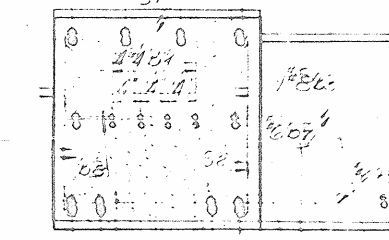
ITEM	QUANTITY	UNIT	PRICE	TOTAL
1	100	cu yd	1.50	150.00
2	50	sq yd	2.00	100.00
3	20	lb	0.10	2.00
4	10	ft	0.50	5.00
5	5	sq ft	1.00	5.00
6	1	cu ft	0.25	0.25
7	1	sq ft	0.50	0.50
8	1	lb	0.05	0.05
9	1	ft	0.25	0.25
10	1	sq ft	0.50	0.50
11	1	cu ft	0.25	0.25
12	1	sq ft	0.50	0.50
13	1	lb	0.05	0.05
14	1	ft	0.25	0.25
15	1	sq ft	0.50	0.50
16	1	cu ft	0.25	0.25
17	1	sq ft	0.50	0.50
18	1	lb	0.05	0.05
19	1	ft	0.25	0.25
20	1	sq ft	0.50	0.50

Additional material at contractor's expense due to emergency included in final pay quantities.

ELEVATION



SECTION A-A



SECTION B-B

PROJECT NO. 10-35.50
 BRUNSWICK COUNTY
 STATION: 10+35.50

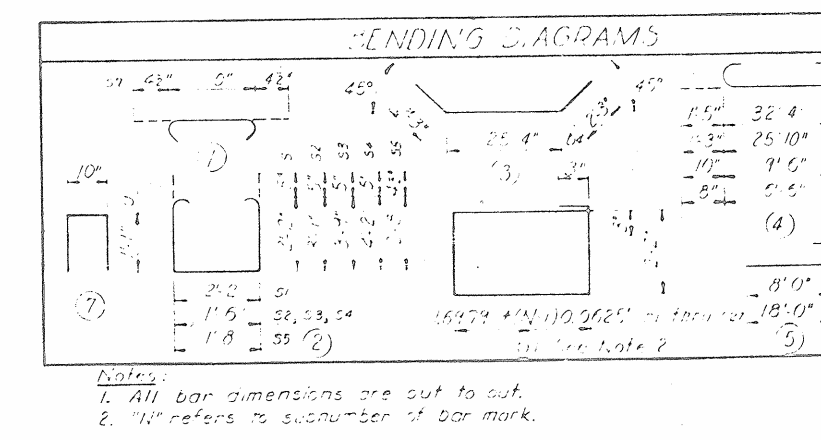
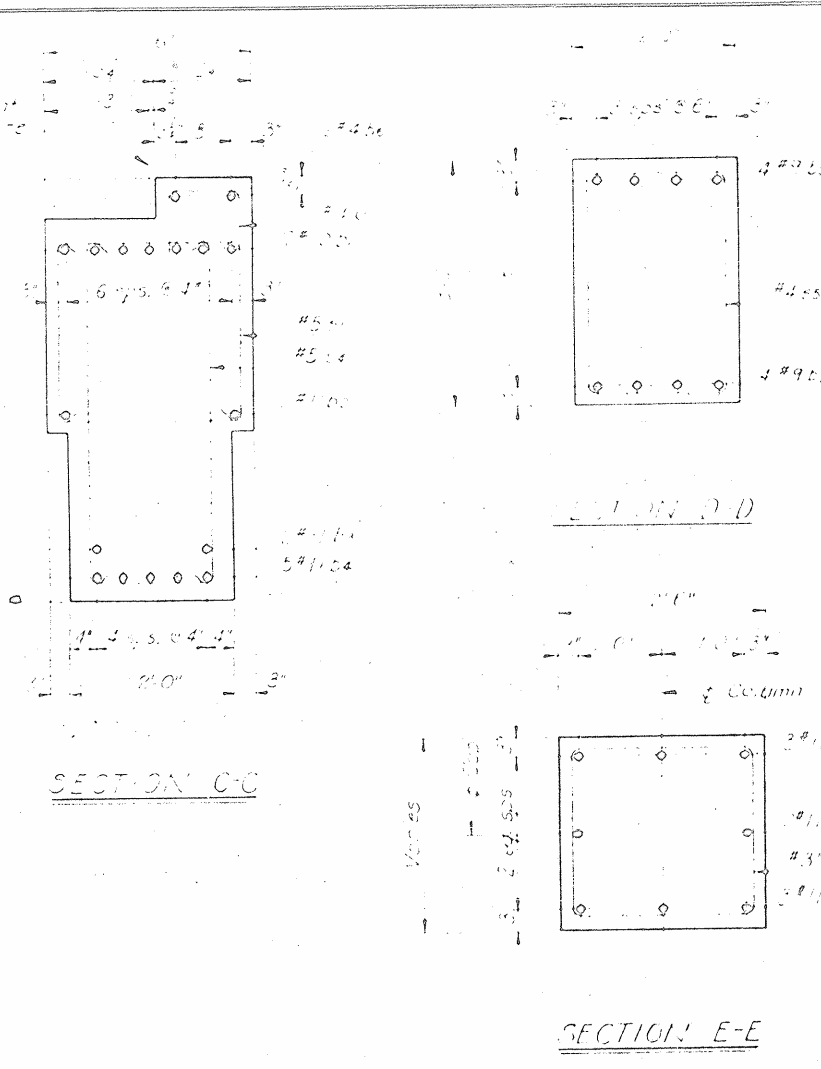
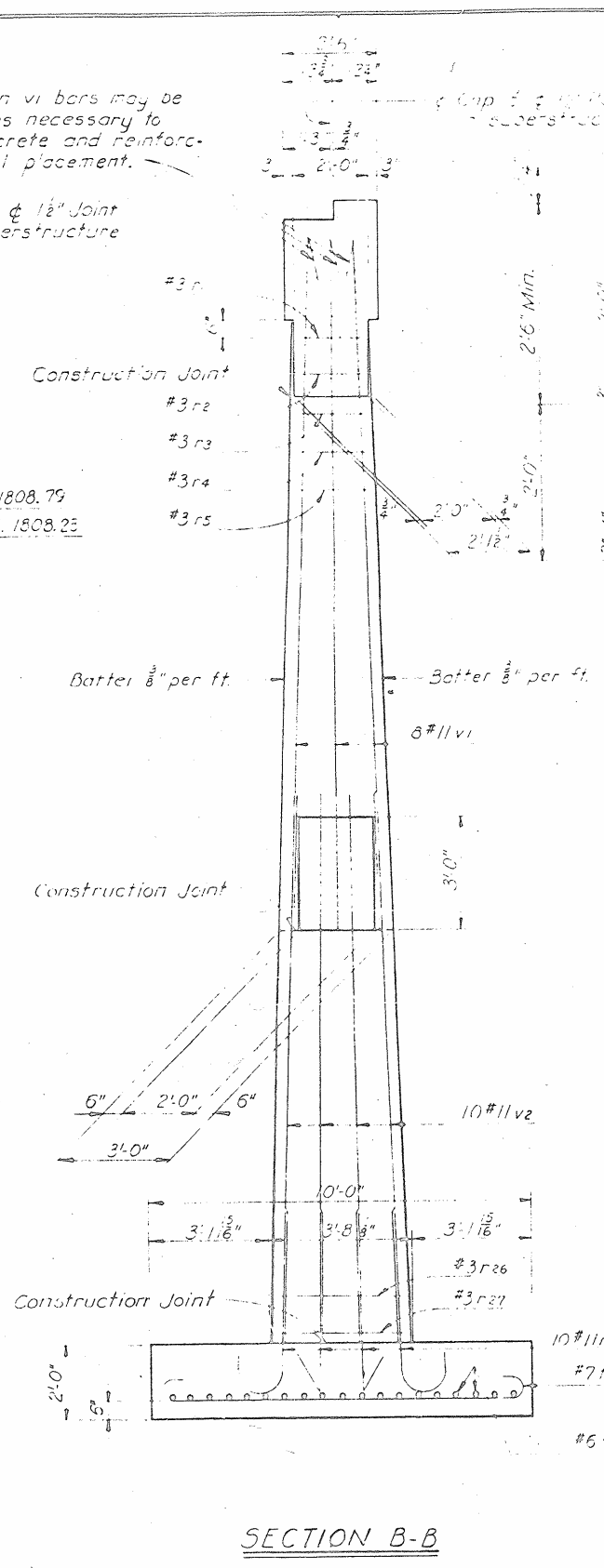
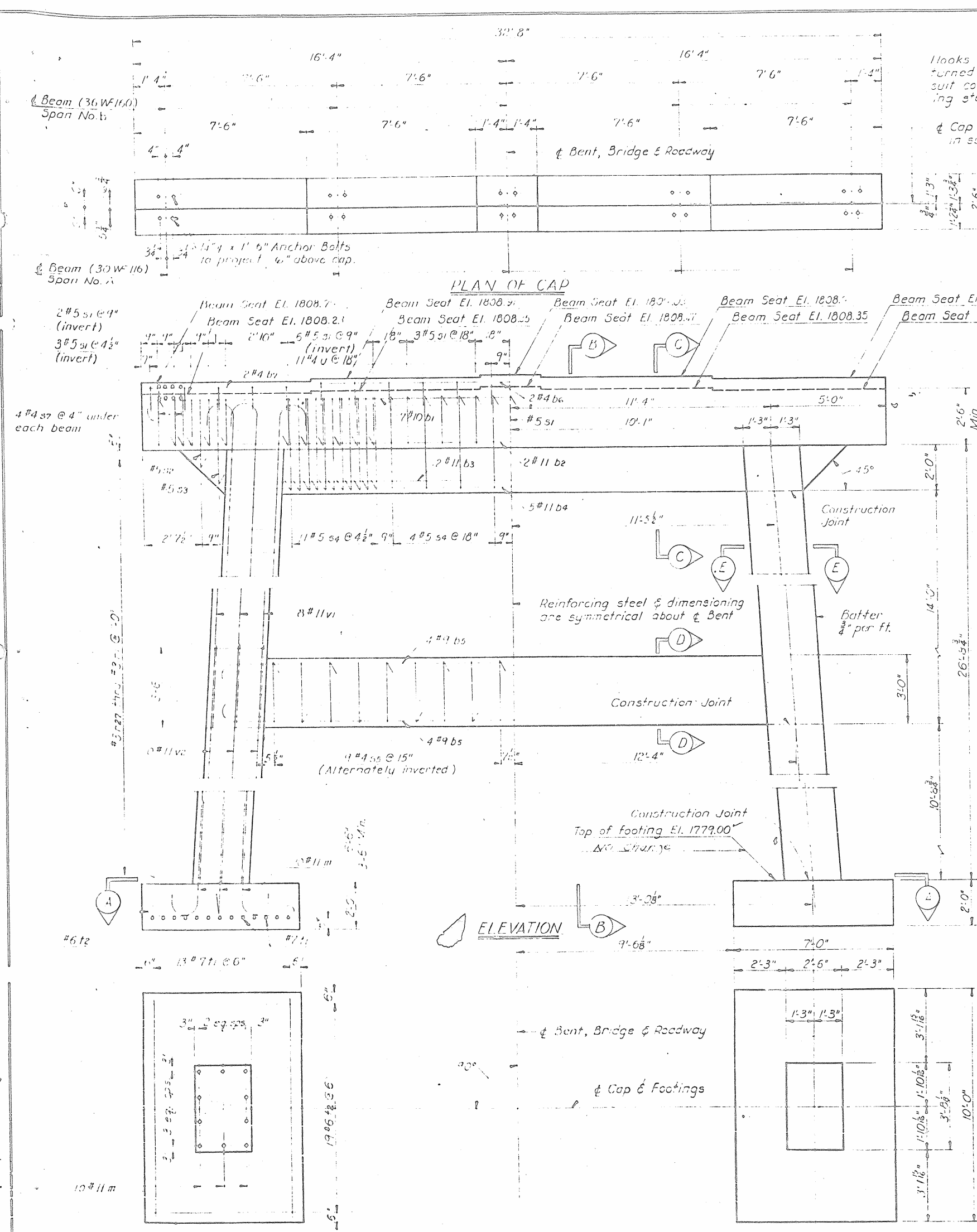
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

STRUCTURE
 END BENT NO. 1

10-35.50

NO.	DATE	BY	DATE	BY
1	10-35.50	10-35.50	10-35.50	10-35.50

DESIGNED BY	10-35.50
DRAWN BY	10-35.50
CHECKED BY	10-35.50



REINFORCING BAR SCHEDULE					
BAR	SIZE	TYPE	LENGTH	NO.	WEIGHT
1	#4	1	32' 7"	7	1,259
2	#4	2	32' 4"	2	348
3	#4	3	25' 4"	2	269
4	#4	4	29' 10"	5	793
5	#4	5	28' 4"	8	771
6	#4	6	17' 4"	2	23
7	#4	7	8' 6"	4	23
8	#4	8	9' 7"	20	1,018
9	#4	9	1' 3"	51	237
10	#4	10	3' 0"	2	18
11	#4	11	9' 10"	2	21
12	#4	12	10' 8"	30	334
13	#4	13	7' 4"	18	93
14	#4	14	15' 2"	40	42
15	#4	15	22' 2"	2	200
16	#4	16	11' 2"	26	593
17	#4	17	7' 10"	38	447
18	#4	18	3' 0"	22	24
19	#4	19	11' 7"	16	1,089
20	#4	20	14' 3"	20	1,514

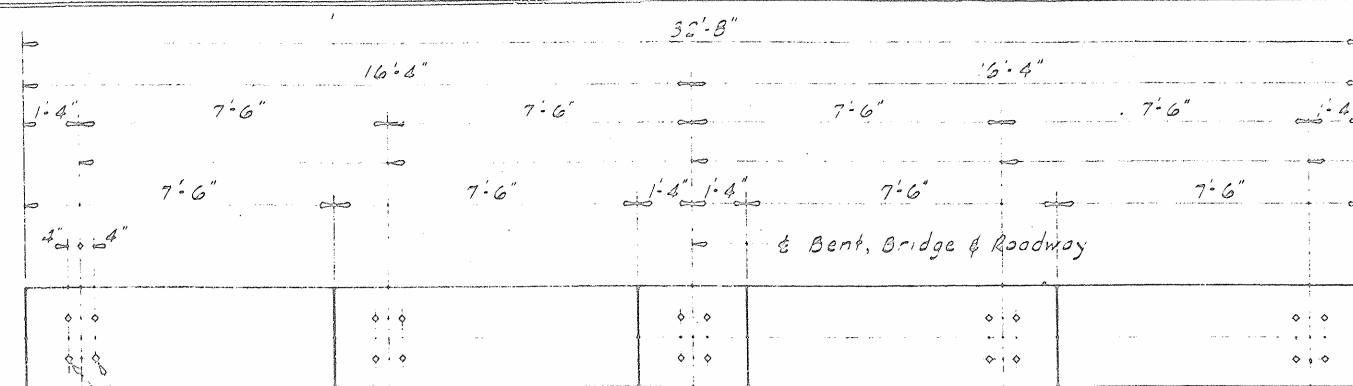
CONCRETE VOLUMES BY POURS		
POUR NO.	LOCATION	CU. YDS.
1	Cap	12.5
2	Stems & Struts	11.5
3	Stems	6.7
4	Footings	10.3
BILL OF MATERIAL		
ITEM	CLASS A CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)
1	12.5	9,508

PROJECT NO. 82016601
 BUNCOMBE COUNTY
 STATION: 10+35.50
 MP 1531

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

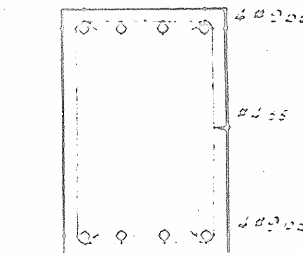
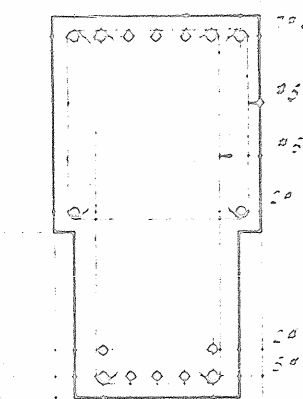
SUBSTRUCTURE
 BENT NO. 1
 NOV. 1966

DESIGNED BY: Eduardo J. Morales
 CHECKED BY: Leola B. Pierce
 DATE: 11-1-66



Hooks on vi bars ~~may be~~
turned as necessary to
suit concrete and reforc-
ing steel placement

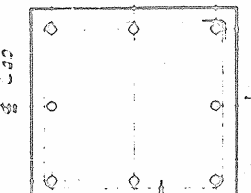
- E beam (36 WF 160)
- E cap & E 1" joint in superstructure



SECTION D-D



SECTION C-C



SECTION E-E

REFERRING BAR SCHEDULE
FOR ONE SENT

DATE	TIME	TYPE	LEAST H	NO	WEIGHT
0	0	4	55-2"	7	1289
02	1	5-	56-4"	6	364
03	11	5-	55-4"	6	268
04	11	3	59-10"	5	793
05	9	4	58-10"	9	754
1		5	51-2"	20	1018
2			7-4"	2	23"
01	5		9-5"	2	18"
03	5		7-5"	2	21"
04	4		10-8"	50	384
05	4		7-9"	18	33
06	4		2-11"	20	39
7	7-35	3	3.1927 (10.0.250)	253	273
8	7	4	1-2"	26	593
9	6	4	7-10"	38	447
10		5	23-7"	16	2205
12	11	500	13-8"	20	1,264

CONCRETE VOLUME BY POURS			
POUR NO.	LOCATION	CU. YDS.	
		POUR 4	POUR 5

	2	Cup	11.0	11.0
b1	3	Stems & Struts	14.0	14.0
bs	2	Stems	19.0	20.0
	1	Endings	19.0	19.0

BILL OF MATERIAL		
LOCATION	CLASS A CONCRETE IN YDS.	REINFORCING STEEL LBS.
BEAMS &	26.61	10,311
BEAM NO 5	45.27	15,291

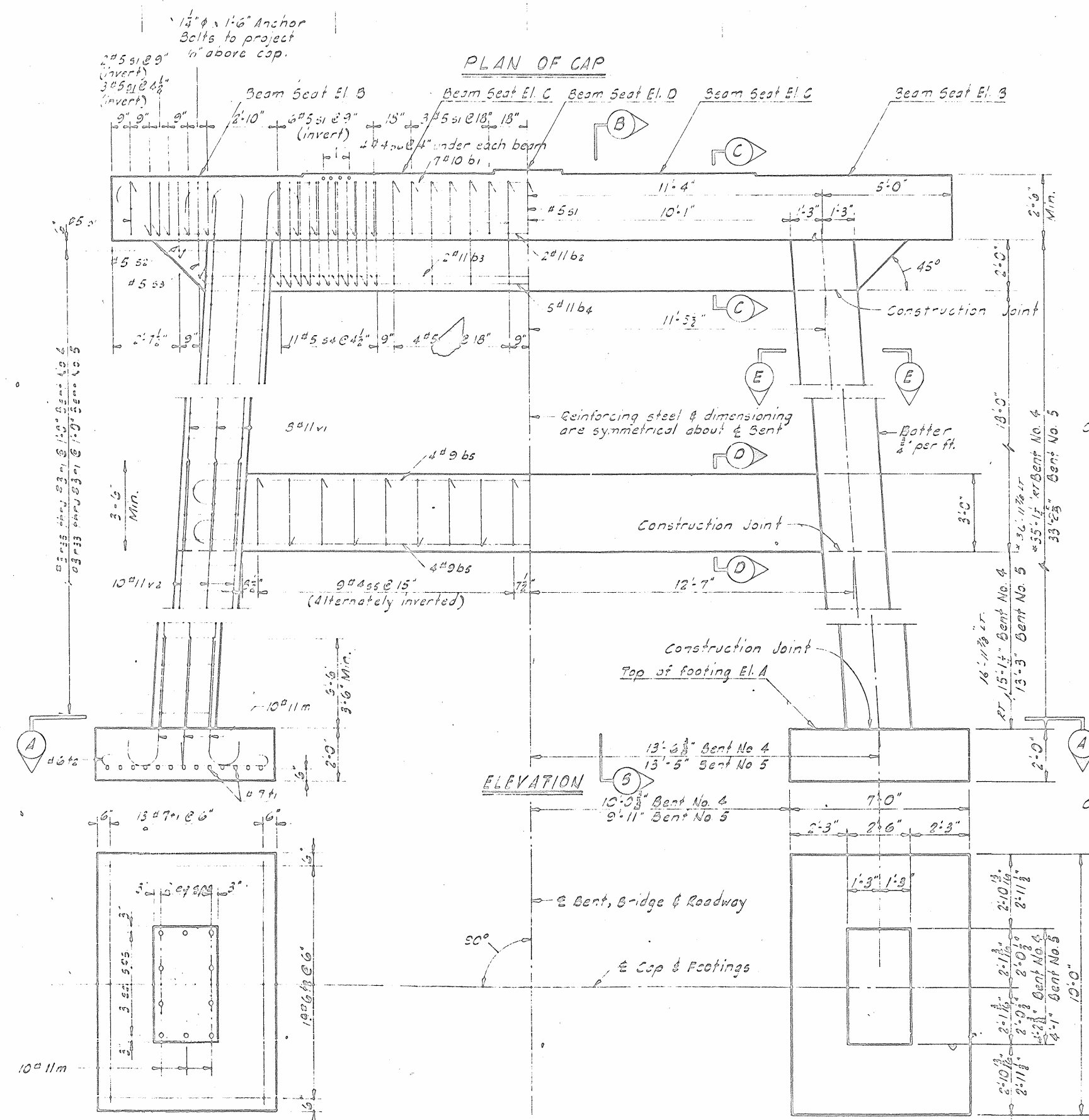
4795 ✓

PROJECT NO. 8.20/660/
BUNCOMBE COUNTY
STATION: 10+35.50
P Sta. 1531

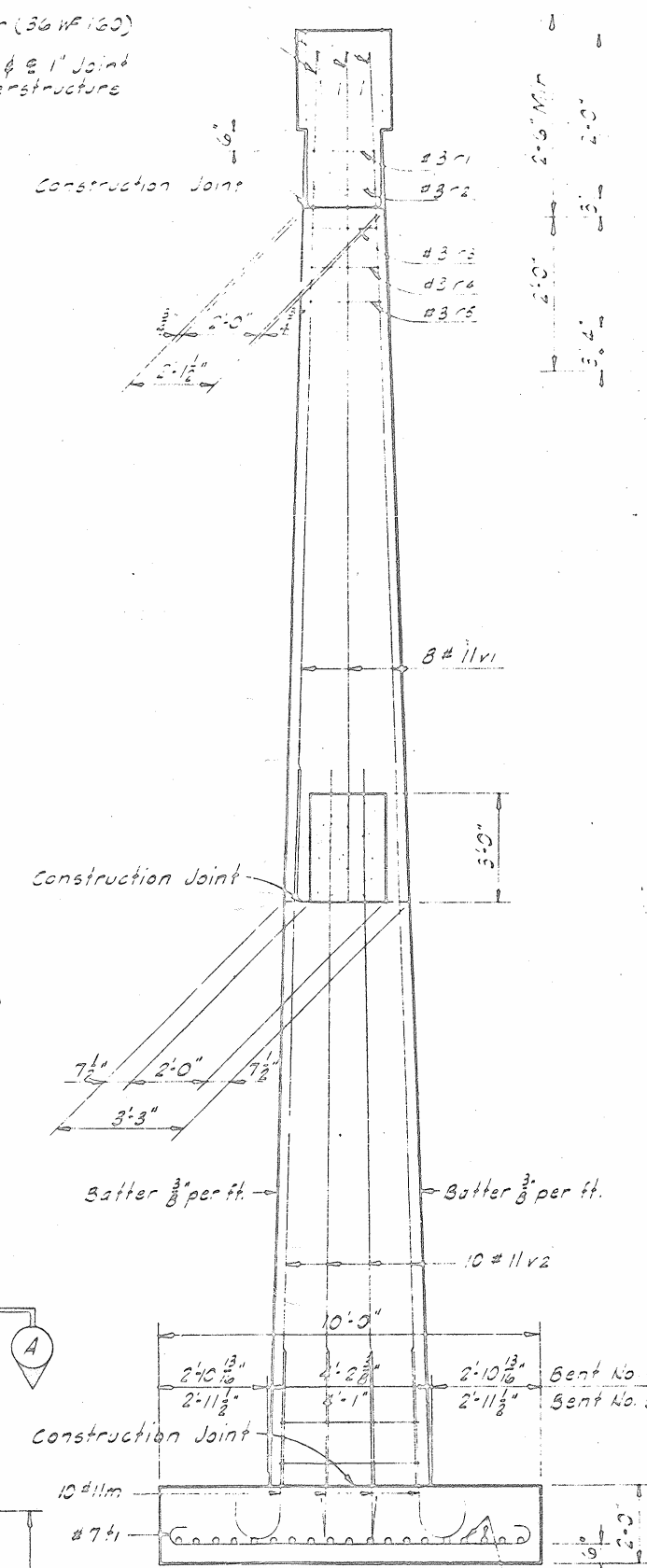
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
DALEIGH
SUBSTRUCTURE
BENT NO. 4 & 5
NOV 1966

REVISIONS				DATE BY	
NO.	DATE	BY	DATE	NO.	DATE
01					

DATE
BY
NO.



PLAN OF POSTING:
SECTION A-A



SECTION B-1

BENDING DIAGRAMS

Diagram (1) shows the bending moment distribution for the left column. The moment is zero at the base and increases linearly to a maximum value of $2.2'$ at the top. The shear force is constant at $1.5'$ along the column.

Diagram (2) shows the bending moment distribution for the right column. The moment is zero at the base and increases linearly to a maximum value of $2.2'$ at the top. The shear force is constant at $1.5'$ along the column.

Diagram (3) shows the bending moment distribution for the horizontal beam. The moment is zero at both ends and increases parabolically to a maximum value of $2.2'$ at the center. The shear force is constant at $1.5'$ along the beam.

Diagram (4) shows the bending moment distribution for the left column. The moment is zero at the base and increases linearly to a maximum value of $2.2'$ at the top. The shear force is constant at $1.5'$ along the column.

Diagram (5) shows the bending moment distribution for the right column. The moment is zero at the base and increases linearly to a maximum value of $2.2'$ at the top. The shear force is constant at $1.5'$ along the column.

Diagram (6) shows the bending moment distribution for the horizontal beam. The moment is zero at both ends and increases parabolically to a maximum value of $2.2'$ at the center. The shear force is constant at $1.5'$ along the beam.

Notes:

1. All bar dimensions are out to out.
2. "N" refers to subnumber of bar mark.
* Smir bars #34 & #35 in Bent No. 4.

SCHEDULE OF ELEVATIONS		
MARK	BENT NO 4	BENT NO 5
A	1758.02	1757.00
B	1796.50	1792.72
C	1796.72	1796.04
D	1796.94	1792.96

REINFORCING BAR SCHEDULE						
BAR	SIZE	TYPE	LENGTH	NO.	WEIGHT	
b1	10	4	35'-2"	7	1,059	
b2	11	5tr	32'-4"	2	500	
b3	11	5tr	25'-4"	2	269	
b4	3	3	29'-10"	5	793	
b5	3	4	23'-4"	8	771	
b6	4	5tr	17'-4"	2	25	
		5	9'-7"	20	1,010	
		2	7'-6"	31	237	
		2	5'-6"	2	18	
		2	9'-10"	2	21	
		2	10'-8"	30	334	
		2	7'-5"	10	93	
		1	2'-11"	8	16	
		1	1'-7"	24	25	
		3	8'-2292" (N-1) 0.1250"	2 Ea	209	
		4	11'-2"	26	593	
		4	7'-10"	30	447	
		7	3'-0"	12	77	
		5	19'-7"	16	1,665	
		5tr	15'-11"	20	1,691	

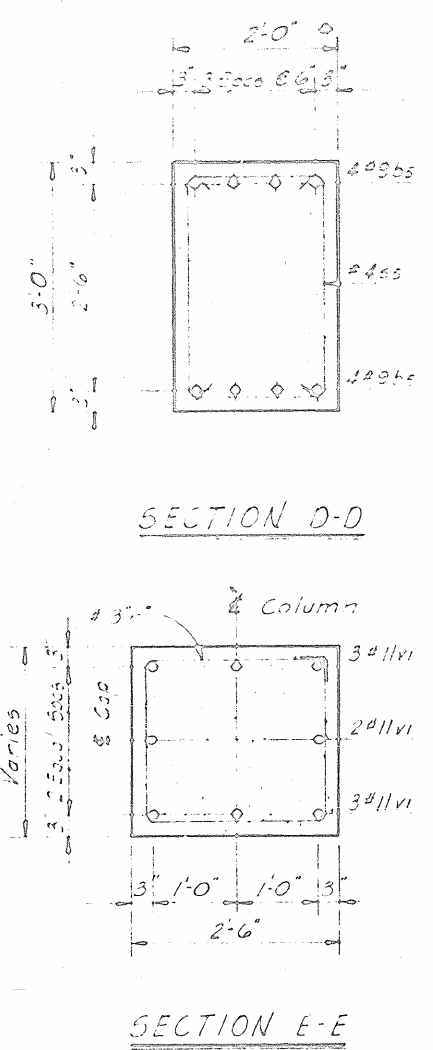
CONCRETE VOLUMES BY POURS		
POUR NO.	LOCATION	CU. YDS.
4	Cap	12.2
3	Stems & Strut	11.5
2	Stems	28.1330
1	Footings	10.4242

BILL OF MATERIAL		
LOCATION	CLASS A CONCRETE CU. YDS.	REINFORCING STEEL LBS.
Bent No. 6	41.9	9,650 ✓

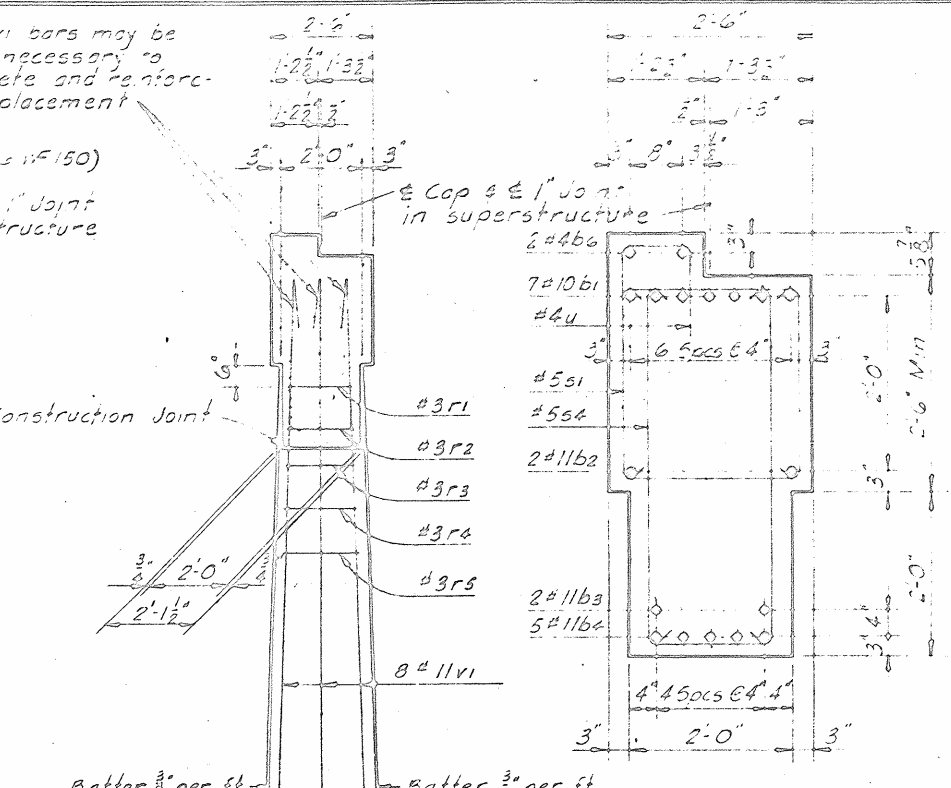
PROJECT NO. 8-2016601
BUNCOMBE COUNTY
STATION: 10+35.50
M.P. Sta 153.1

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
SUBSTRUCTURE
BENT NO. 6
NOV 1966

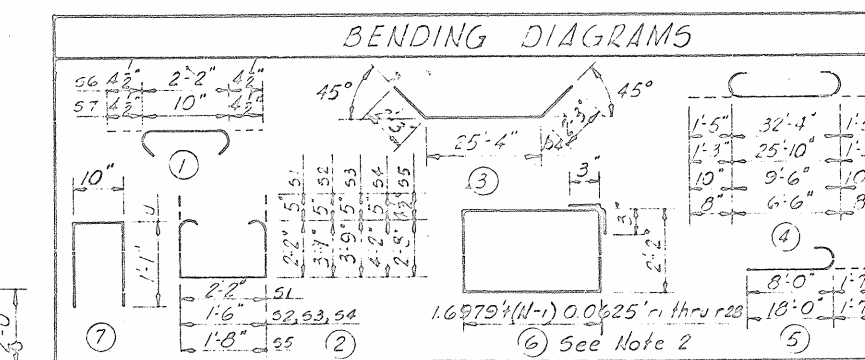
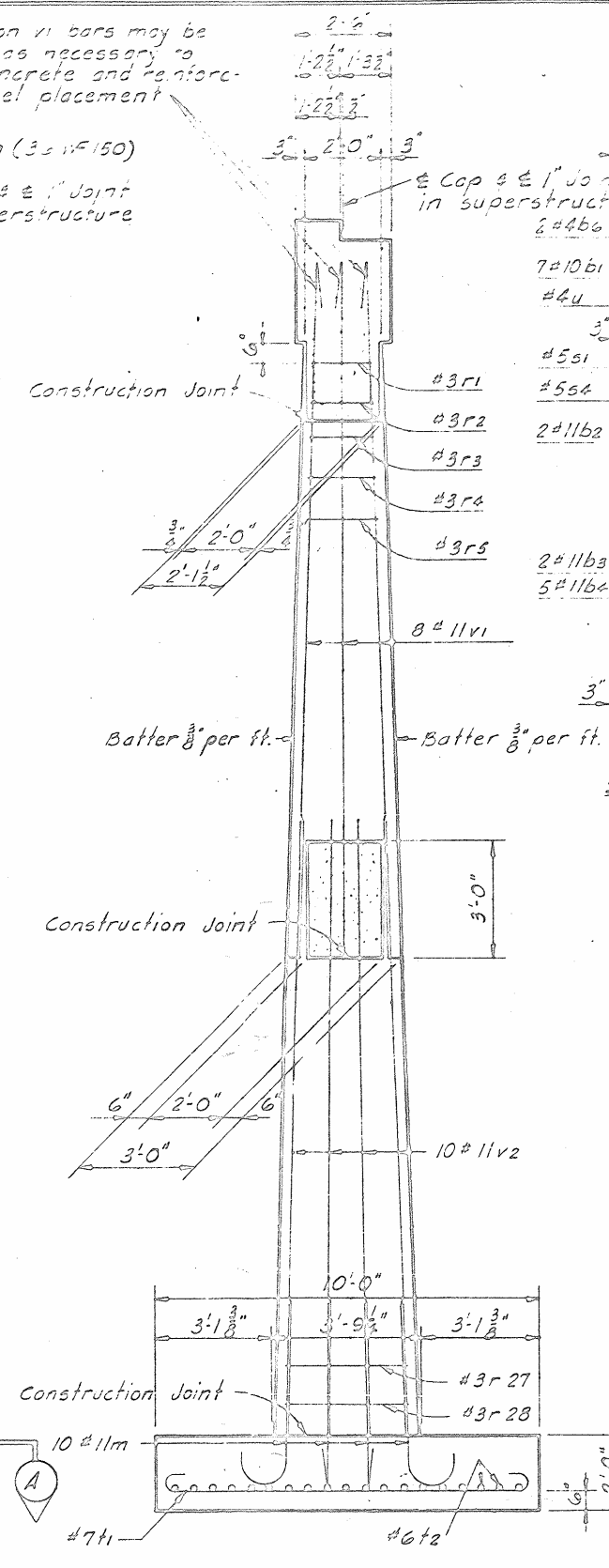
REVISIONS			REVISIONS		
NO.	BY	DATE	NO.	BY	DATE
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2			3		



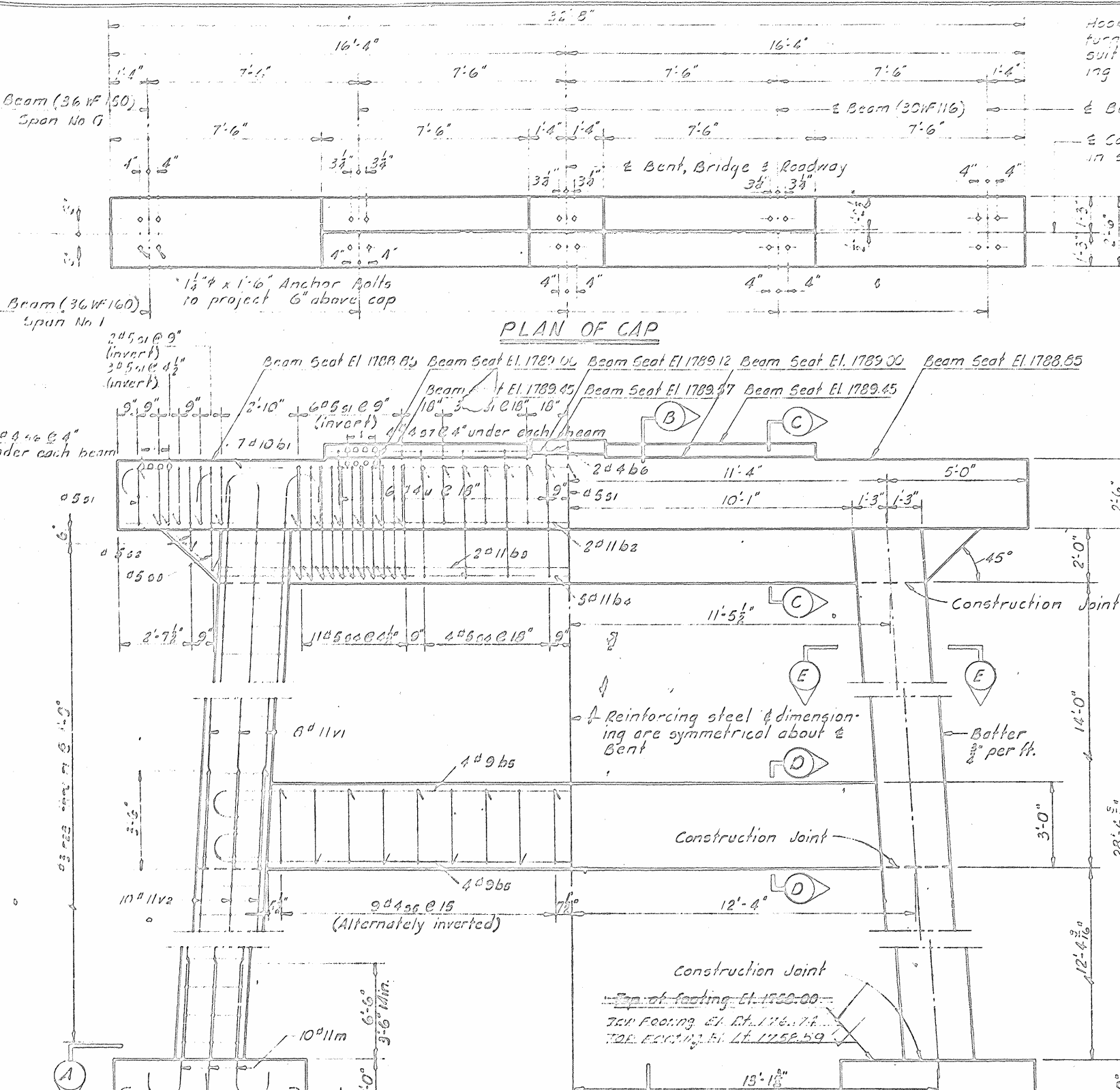
SECTION C-C



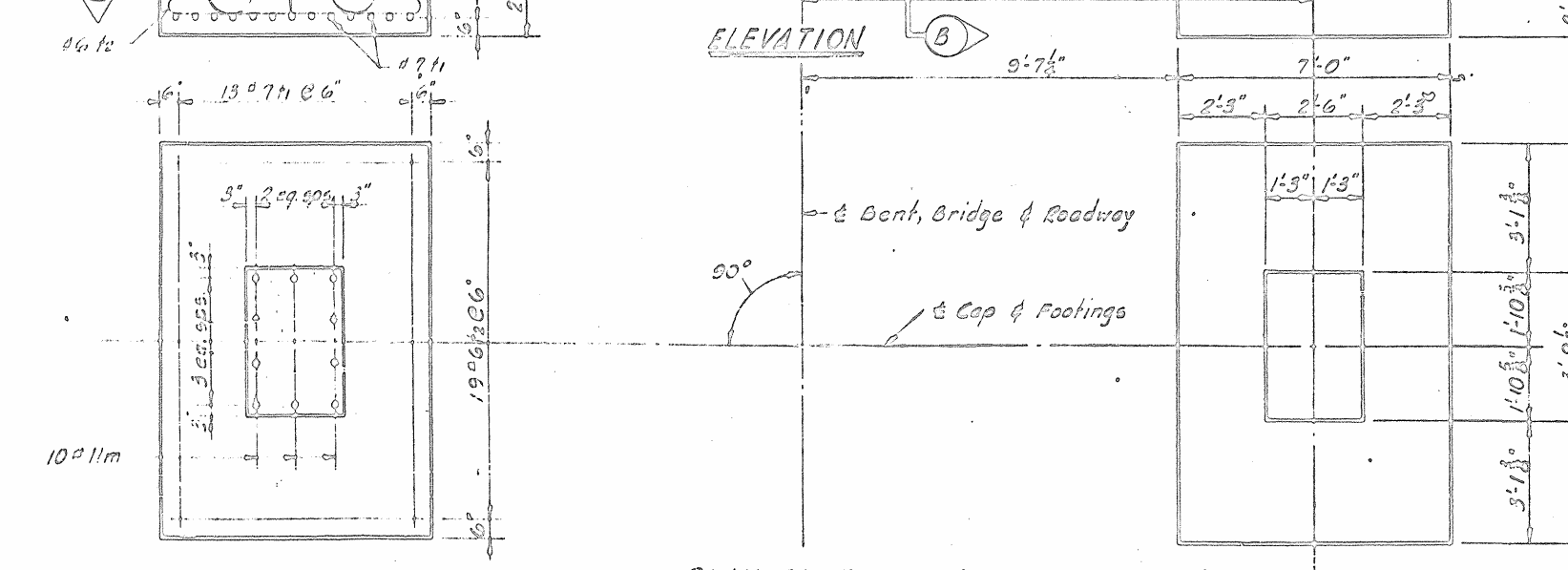
SECTION 3-B



Notes:
1. All bar dimensions are out to out.
2. "N" refers to subnumber of bar mark.



ELEVATION



PLAN OF FOOTINGS
SECTION A-A

SPECIAL	APPROVED BY	Eduardo J. Morales	DATE	10-66
	DRAWN BY	Lee R. Thigpen	DATE	10-66
	CHECKED BY	R. Self	DATE	10-66
	TRACED BY		DATE	

BILL OF MATERIAL

END BENT NO. 2

ITEM	NO.	SIZE	TYPE	LENGTH	WEIGHT
1	4	#10	STR	35'-2"	605
2	12	#10	STR	35'-2"	1816
3	4	#4	STR	34'-10"	100
4	1	#4	STR	30'-0"	159
5	3	#4	STR	59'-0"	50
6	9	#6	STR	35'-2"	71
7	15	#4	STR	2'-2"	22

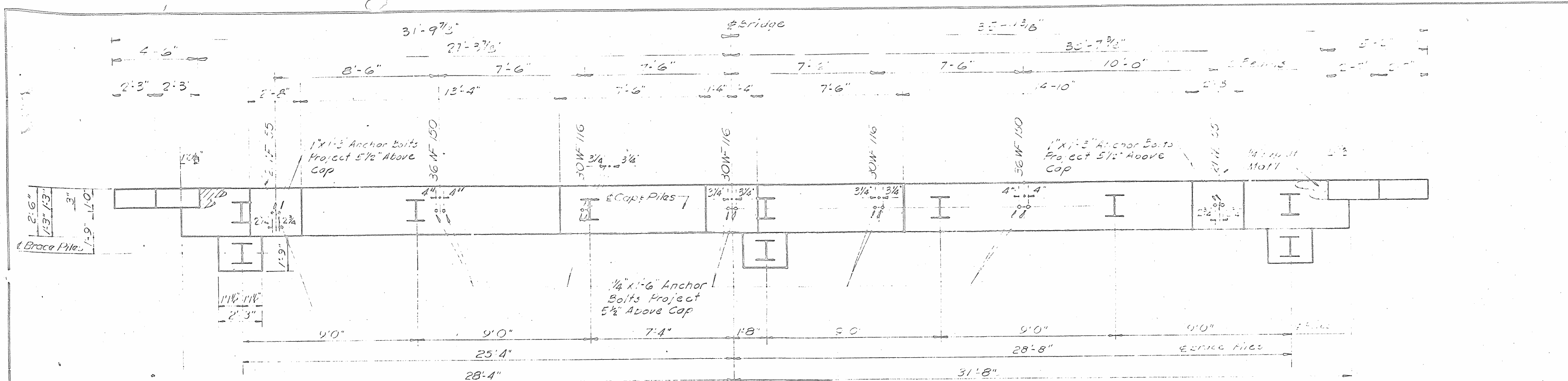
1	1	#4	STR	4'-0"	21
2	1	#4	STR	4'-7"	9
3	1	#4	STR	4'-2"	25
4	1	#4	STR	5'-3"	11

1	1	#4	STR	2'-11"	94
2	1	#4	STR	7'-3"	232

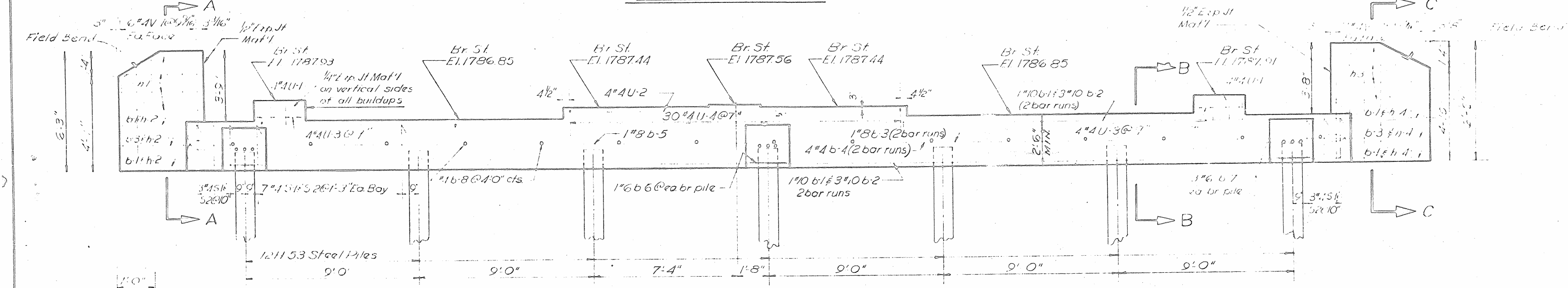
1	1	#4	STR	4'-8"	25
2	1	#4	STR	4'-6"	49
3	1	#4	STR	4'-6"	44
4	1	#4	STR	5'-4"	67

1	1	#4	STR	5'-8"	98
---	---	----	-----	-------	----

TOTAL WEIGHT 205
 TOTAL LENGTH 202'22"
 TOTAL NO. OF BARS 10

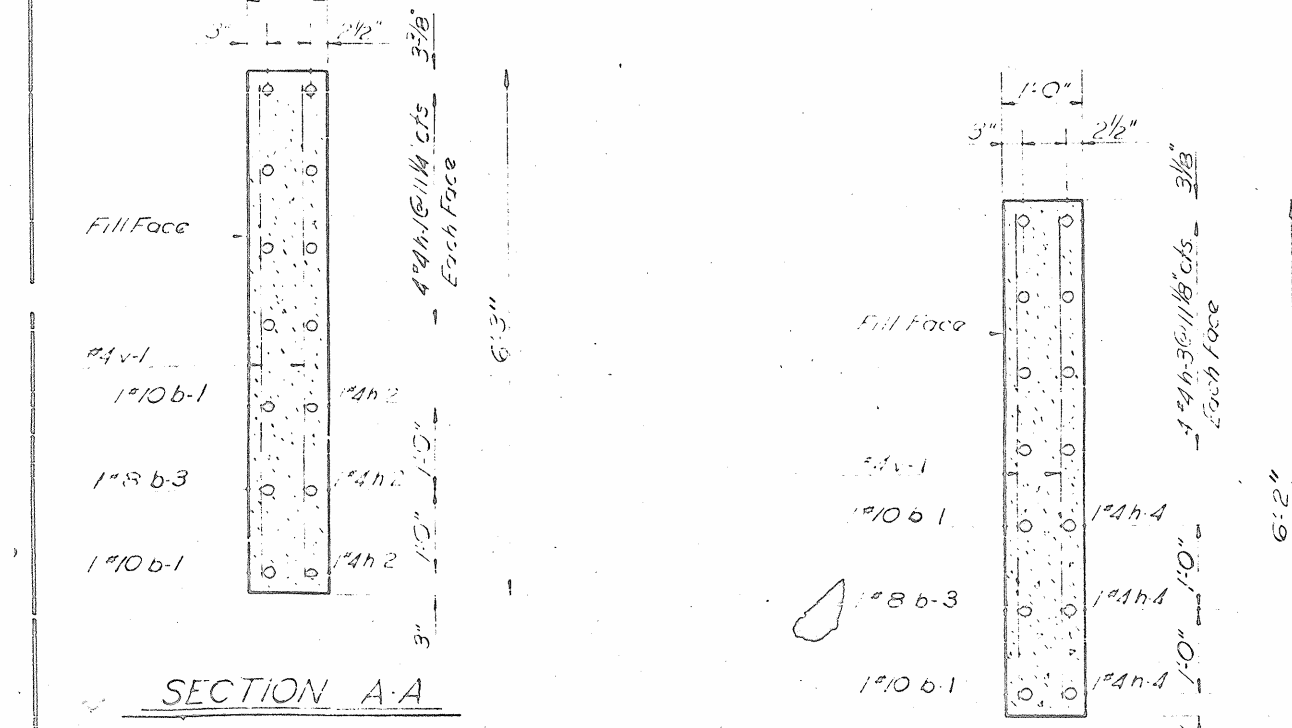


PLAN OF CAP

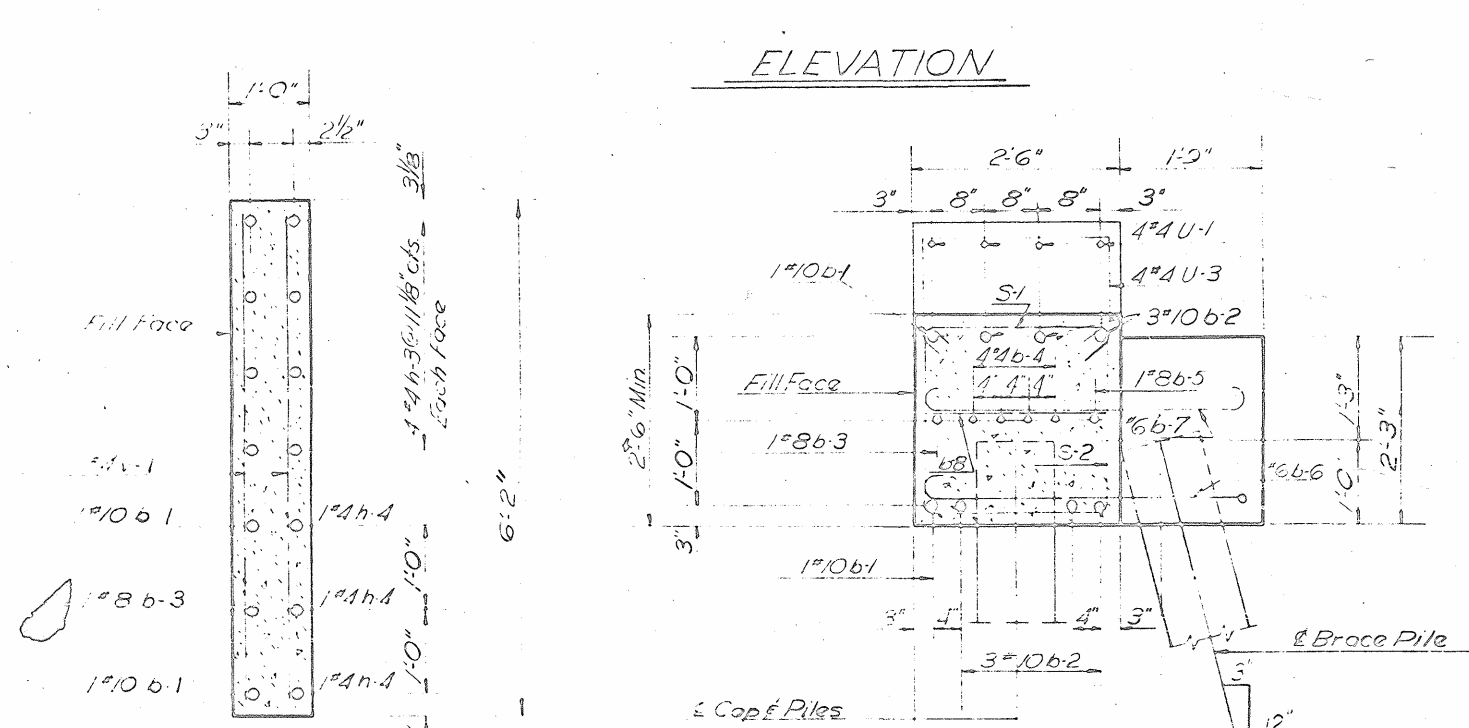


ELEVATION

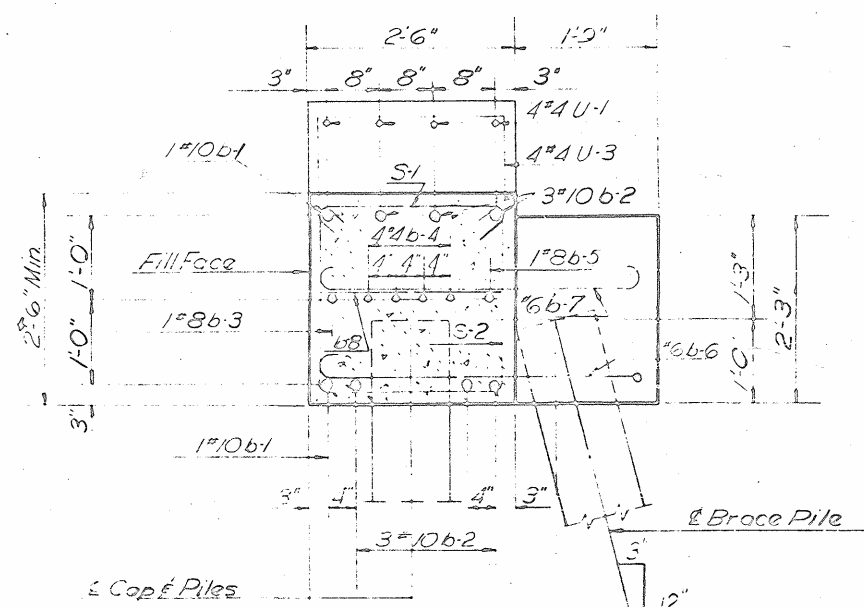
BAR DETAILS



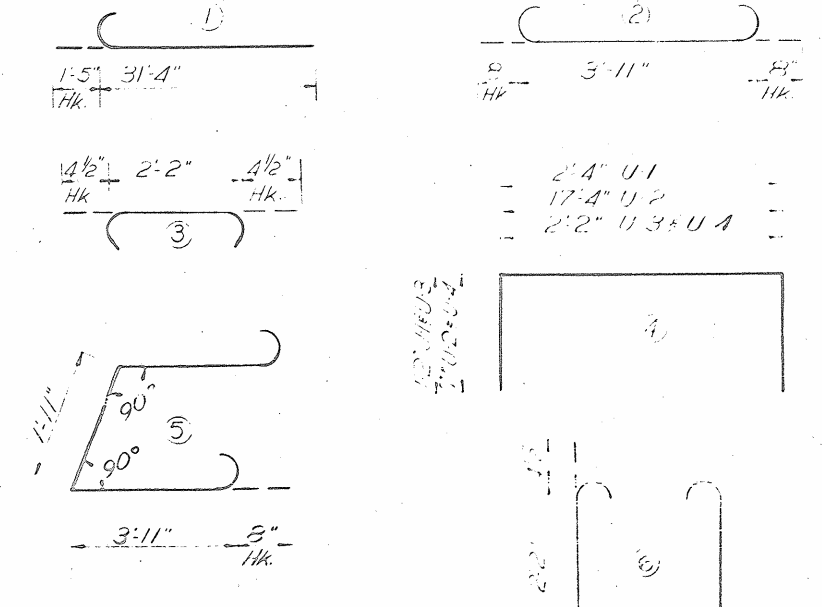
SECTION A-A



SECTION B-B



SECTION C-C



NOTE:
 All dimensions in "Bar Details"
 are out to out of bar.

PROJECT NO. 8-2016601
 BUNCOMBE COUNTY
 STATION: 10+35.50

MP1531

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 END BENT NO. 2

NOV 1966

NO.	DATE	BY	REVISIONS
1			
2			
3			

DESIGNED BY: Turner
 DRAWN BY: R. Blair
 CHECKED BY: J. Self
 DATE: NOV 66
 DATE: NOV 66
 DATE: NOV 66