

PROJECT No 8.3/9/101

FINAL ESTIMATE
OF

THESE PLANS MICRO FILMED
BY
NORTH CAROLINA
STATE HIGHWAY COMMISSION
REPRODUCTION DEPT.

BRIDGES

BUNCOMBE COUNTY

NORTH CAROLINA
STATE HIGHWAY COMMISSION
DIVISION No 13

AS BUILT PLANS AND THE FINAL ESTIMATE FOR STRUCTURES PROJECT 8.3191101 ✓ APD-34-1(4)

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ESTIMATE- STRUCTURES OVER 20' SPAN

CONTRACTOR: WILSON CONSTRUCTION COMPANY AND
ASHEVILLE CONTRACTING COMPANY, ASHEVILLE, N.C.

BIDS OPENED: JANUARY 25, 1966 ✓
CONTRACT DATED: FEBRUARY 21, 1966 MARCH 9, 1966 ✓
WORK STARTED: MARCH 7, 1966 ✓
PROJECT ACCEPTED AUGUST 19, 1968 ✓

THESE PLANS MICRO-FILMED
BY
NORTH CAROLINA
STATE HIGHWAY COMMISSION
REPRODUCTION DEPT.

FRANK L. HUTCHISON
PAUL R. ROBINSON
J.W. MILLS, JR.
J.C. GOSSETT
E.F. COLE
J.C. BUCKNER

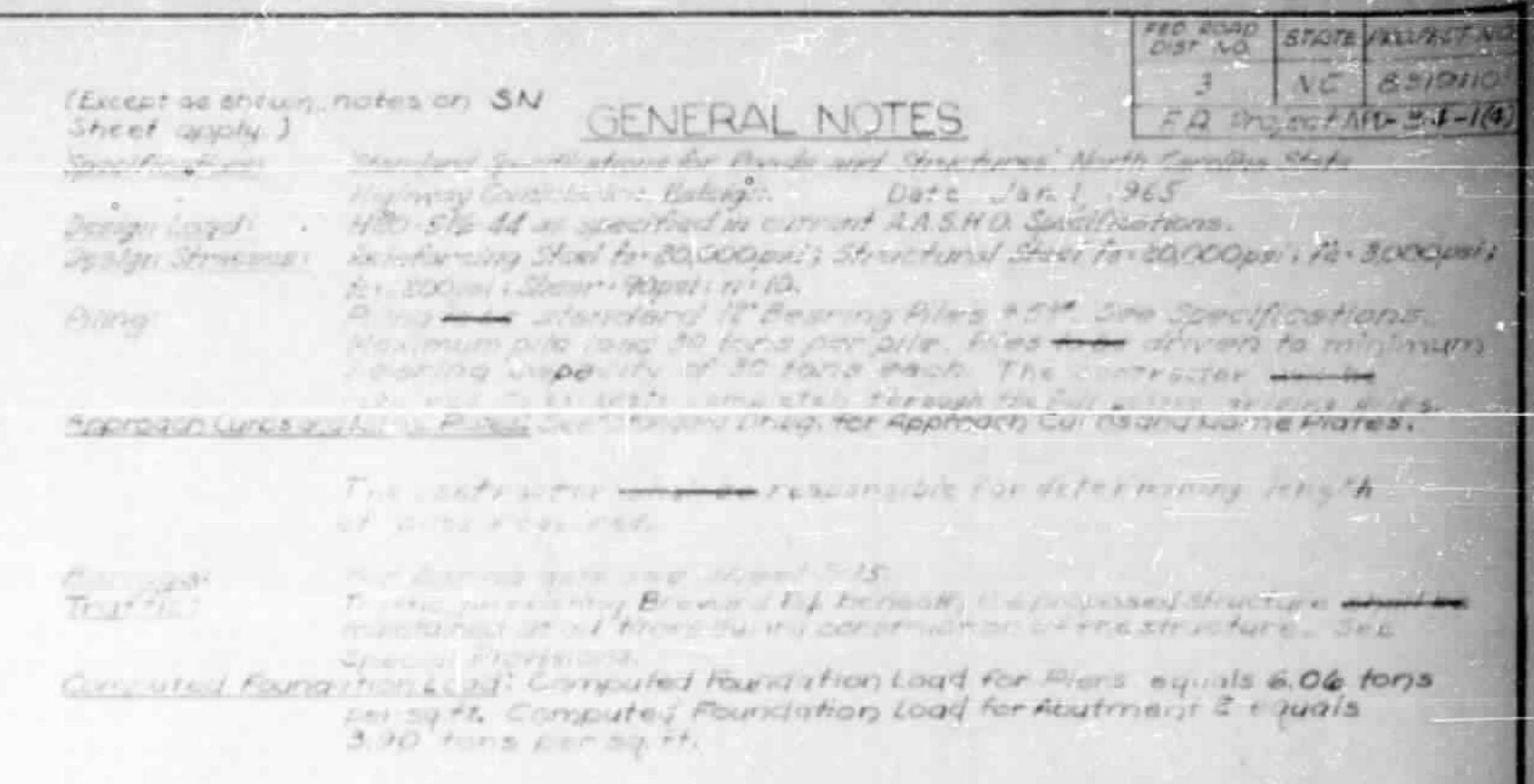
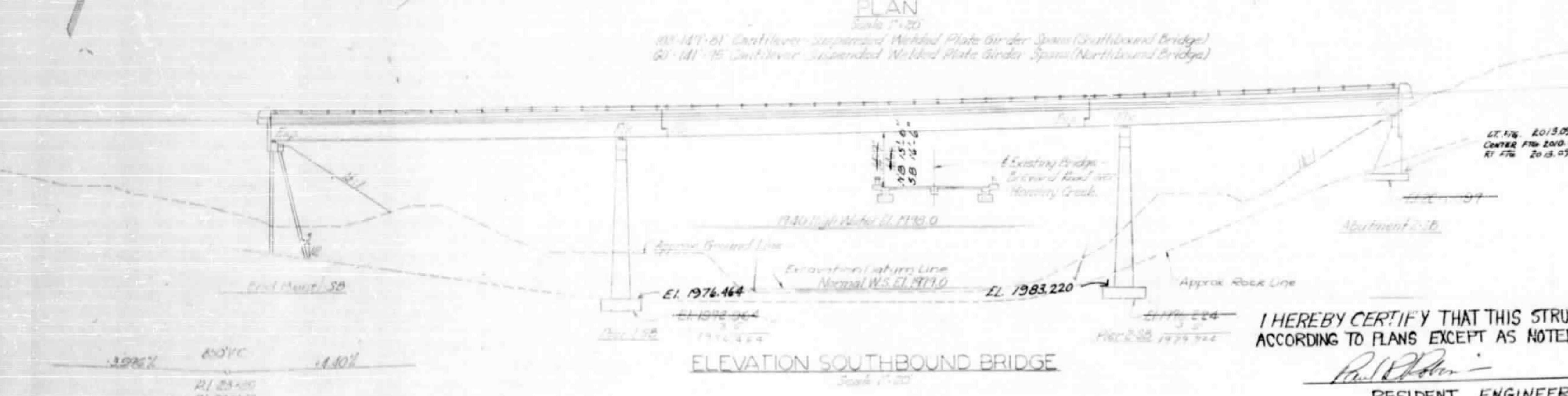
DIVISION ENGINEER
RESIDENT ENGINEER
ASS'T. RES. ENGR.
INSPECTOR III
INSPECTOR III
INSPECTOR III

ALL FIELD BOOKS, PROPERLY MARKED, DESCRIBED AND SUBMITTED
HEREWITH AS A PART OF THE AS BUILT PLANS AND THE FINAL
ESTIMATE ARE AS FOLLOWS:

STRUCTURES FIELD		
BOOK NO.	BRIDGE STATION	
S-1	BRIDGE STATION	25+07.35 NORTH BOUND
S-2	BRIDGE STATION	25+07.35 SOUTH BOUND
S-3	BRIDGE STATION	36+12.00 & SURVEY
S-4	BRIDGE STATION	63+53.34 NORTH BOUND (2-ES)
S-5	BRIDGE STATION	77+82.83 NORTH BOUND
S-6 & 7	BRIDGE STATION	86+21.69 & SURVEY
S-8	BRIDGE STATION	102+76.20 & SURVEY

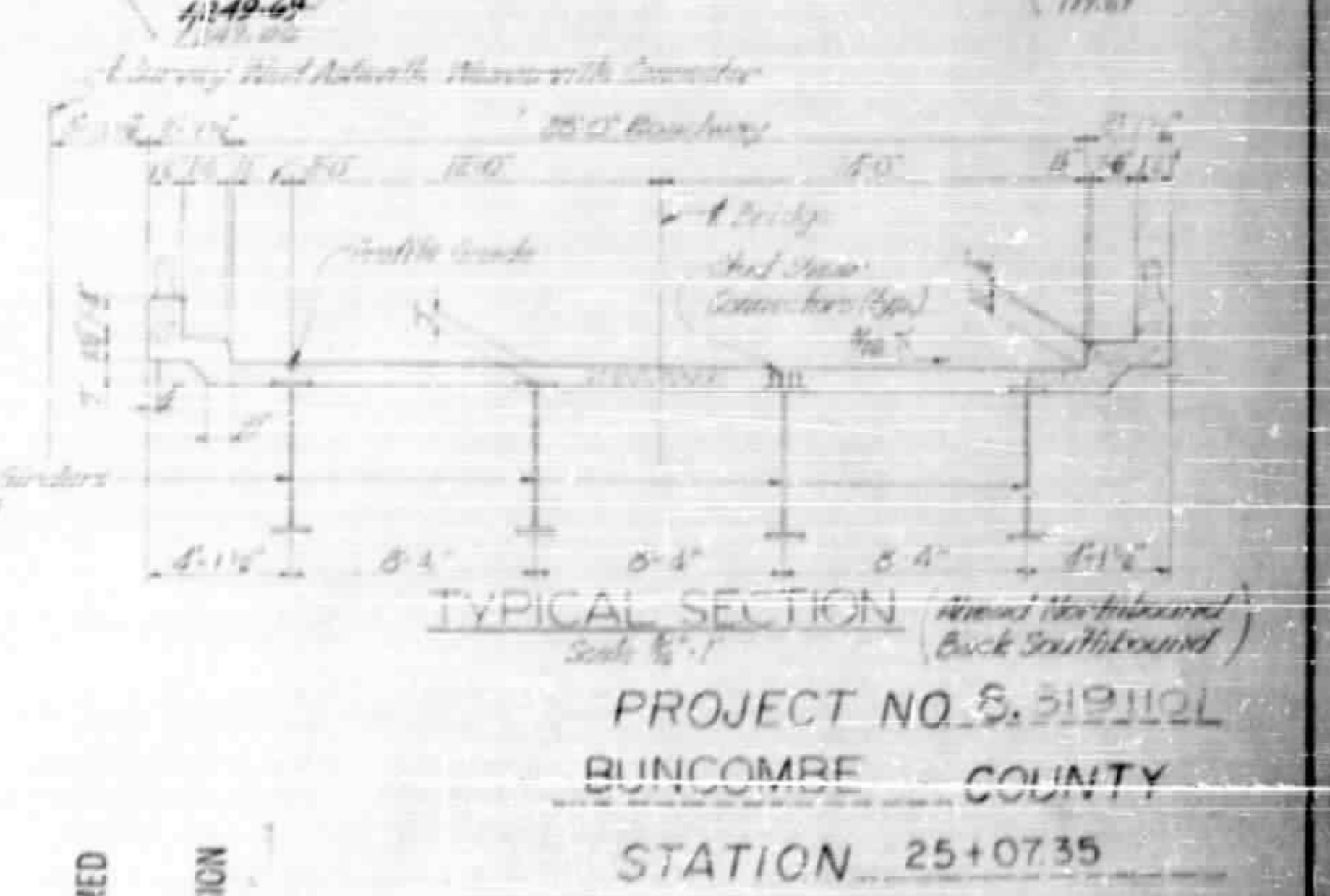
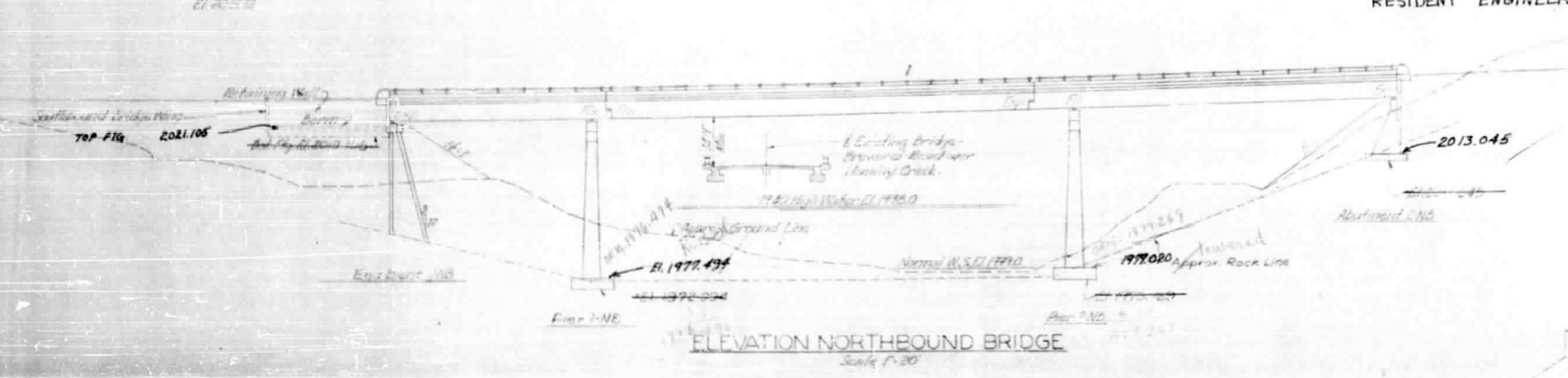
NOTE: BOOKS SHOW LAYOUT, GRADES, PILE RECORD AND SIGNIFICANT
MEASUREMENTS, ELEVATIONS ETC. FOR EACH STRUCTURE

DAILY DIARIES OF STRUCTURE OPERATIONS INCLUDED AND
SUBMITTED AS A PART OF THIS FINAL ESTIMATE WITH
THE ROADWAY AS BUILT SECTION.

[illegible]

I HEREBY CERTIFY THAT THIS STRUCTURE WAS BUILT
ACCORDING TO PLANS EXCEPT AS NOTED HERE-IN.

Paul H. Holman
RESIDENT ENGINEER



THESE PLANS MICRO-FILMED
BY
NORTH CAROLINA
STATE HIGHWAY COMMISSION
RECORDATION DEPT.

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
WELLSICHT

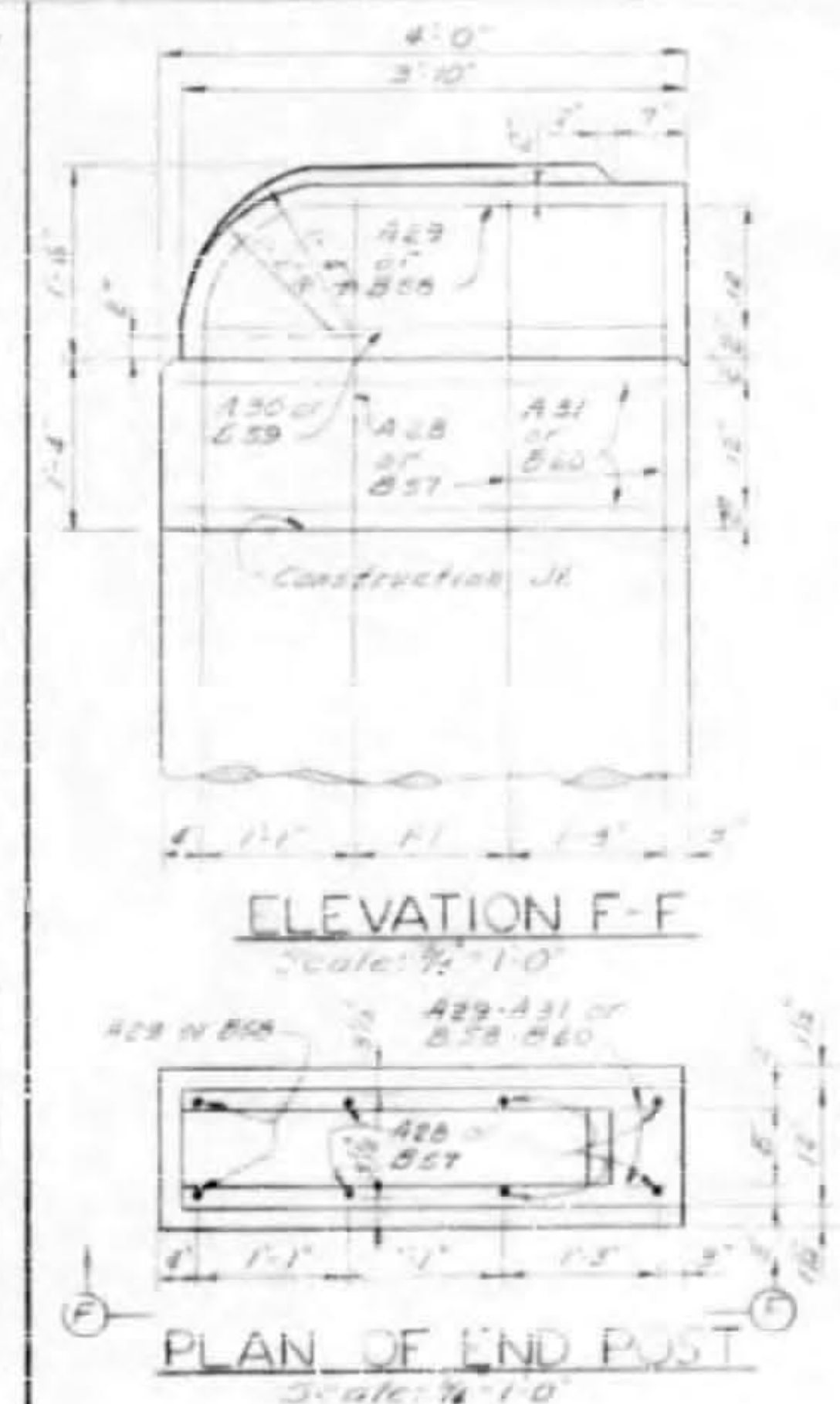
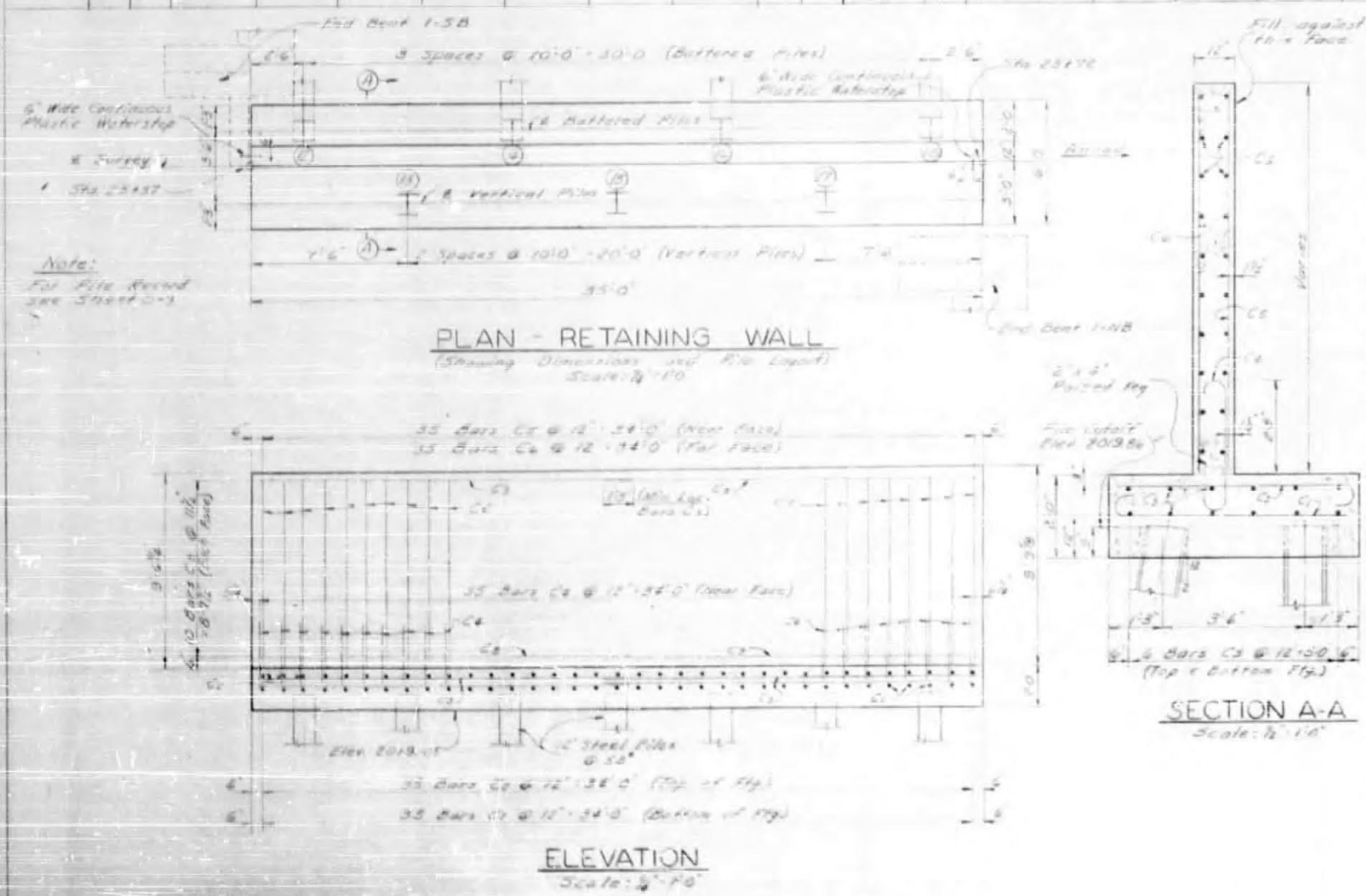
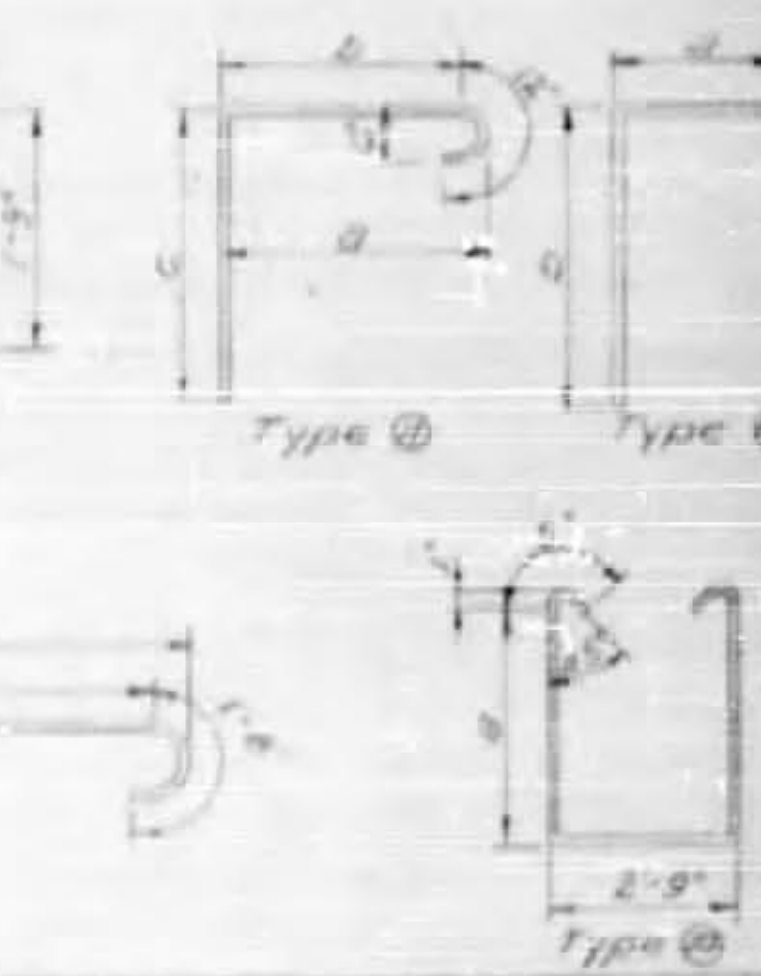
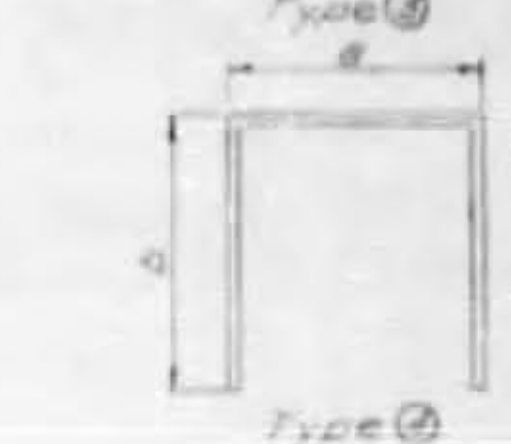
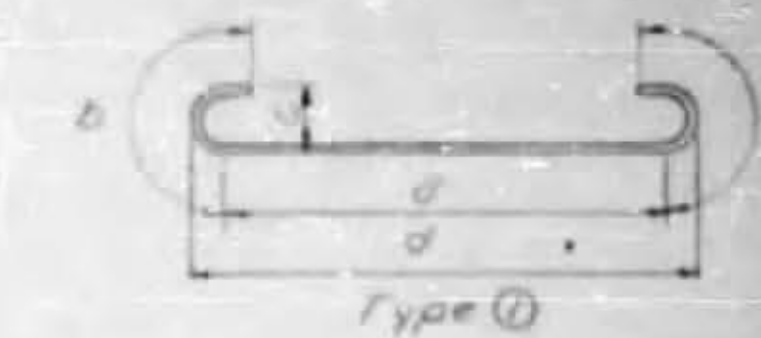
ASHEVILLE WEAVERVILLE CONN
over BREYARD ROAD BIRMINGHAM CR
3 DEAN DECK PLATE GIMDY
GENERAL PLAN

SCALE OF 1/4" = 1'

5-2
110

BILL OF REINFORCEMENT

END BENTS 1-SB & I-NB										ABUTMENTS 2 SB & 2-NB										RETAINING WALL									
Bar	No.	Size	Type	Length	a	b	c	d	Weight	Bar	No.	Size	Type	Length	a	b	c	d	Weight	Bar	No.	Size	Type	Length	a	b	c	d	Weight
1-SB	I-NB								1-SB	I-NB	2-SB	2-NB							2-SB	2-NB									
A1	20	20	#6	4'-0"	4'-0"	1'-0"	0'-0"	4'-0"	180	180	21	21	#6	4'-0"	4'-0"	1'-0"	0'-0"	4'-0"	179	179	22	22	#6	4'-0"	4'-0"	1'-0"	0'-0"	4'-0"	178
A2	23	23	#6	4'-6"	4'-6"	1'-0"	0'-0"	4'-6"	199	199	24	24	#6	4'-6"	4'-6"	1'-0"	0'-0"	4'-6"	198	198	25	25	#6	4'-6"	4'-6"	1'-0"	0'-0"	4'-6"	197
A3	10	10	#4	9'-0"	2'-3"	2'-0"			63	63	33	33	#4	9'-0"	2'-3"	2'-0"			62	62	34	34	#4	9'-0"	2'-3"	2'-0"			61
A4	17	17	#4	7'-2"	1'-9"				81	81	35	35	#4	7'-2"	1'-9"				80	80	36	36	#4	7'-2"	1'-9"				79
A5	17	17	#4	7'-2"	2'-0"				81	81	37	37	#4	7'-2"	2'-0"				80	80	38	38	#4	7'-2"	2'-0"				79
A6	32	32	#4	5'-0"	2'-0"				172	172	39	39	#4	5'-0"	2'-0"				171	171	40	40	#4	5'-0"	2'-0"				170
A7	4	4	#6	7'-11"					48	48	41	41	#6	7'-11"					47	47	42	42	#6	7'-11"					46
A8	4	4	#4	10'-2"					44	44	43	43	#4	10'-2"					43	43	44	44	#4	10'-2"					42
A9	34	34	#4	10'-2"					67	67	45	45	#4	10'-2"					66	66	46	46	#4	10'-2"					65
A10	14	14	#4	3'-0"					78	78	47	47	#4	3'-0"					77	77	48	48	#4	3'-0"					76
A11	21	21	#5	18'-2"	0'-8"	7'-9"			472	472	49	49	#5	18'-2"	0'-8"	7'-9"			471	471	50	50	#5	18'-2"	0'-8"	7'-9"			470
A12	23	23	#4	3'-10"					78	78	51	51	#4	3'-10"					77	77	52	52	#4	3'-10"					76
A13	2	2	#4	2'-9"					37	37	53	53	#4	2'-9"					36	36	54	54	#4	2'-9"					35
A14	10	10	#4	10'-3"					103	103	55	55	#4	10'-3"					102	102	56	56	#4	10'-3"					101
A15	5	5	#5	9'-7"					80	80	57	57	#5	9'-7"					79	79	58	58	#5	9'-7"					78
A16	14	14	#6	9'-2"					195	195	59	59	#6	9'-2"					194	194	60	60	#6	9'-2"					193
A17	2	2	#5	8'-0"					24	24	61	61	#5	8'-0"					23	23	62	62	#5	8'-0"					22
A18	2	2	#6	6'-0"					20	20	63	63	#6	6'-0"					19	19	64	64	#6	6'-0"					18
A19	2	2	#6	10'-3"	5'-3"	5'-0"	3'-0"	4'-0"	31	31	65	65	#6	10'-3"	5'-3"	5'-0"	3'-0"	4'-0"	30	30	66	66	#6	10'-3"	5'-3"	5'-0"	3'-0"	4'-0"	29
A20	2	2	#5	5'-1"					14	14	67	67	#5	5'-1"					13	13	68	68	#5	5'-1"					12
A21	2	2	#5	7'-0"					15	15	69	69	#5	7'-0"					14	14	70	70	#5	7'-0"					13
A22	2	2	#5	7'-0"					16	16	71	71	#5	7'-0"					15	15	72	72	#5	7'-0"					14
A23	2	2	#5	8'-4"					17	17	73	73	#5	8'-4"					16	16	74	74	#5	8'-4"					15
A24	2	2	#5	9'-0"					19	19	75	75	#5	9'-0"					18	18	76	76	#5	9'-0"					16
A25	2	2	#5	9'-2"					49	49	77	77	#5	9'-2"					48	48	78	78	#5	9'-2"					47
A26	2	2	#5	10'-6"	3'-9"	3'-6"	3'-0"		168	168	79	79	#5	10'-6"	3'-9"	3'-6"	3'-0"		167	167	80	80	#5	10'-6"	3'-9"	3'-6"	3'-0"		166
A27	2	2	#6	10'-4"	3'-1"	7'-3"			124	124	81	81	#6	10'-4"	3'-1"	7'-3"			123	123	82	82	#6	10'-4"	3'-1"	7'-3"			122
A28	2	2	#4	0'-4"	0'-0"	3'-10"			33	33	83	83	#4	0'-4"	0'-0"	3'-10"			32	32	84	84	#4	0'-4"	0'-0"	3'-10"			31
A29	4	4	#4	6'-10"					18	18	85	85	#4	6'-10"					17	17	86	86	#4	6'-10"					16
A30	4	4	#4	3'-6"					9	9	87	87	#4	3'-6"					8	8	88	88	#4	3'-6"					7
A31	0	0	#4	3'-0"					20	20	89	89	#4	3'-0"					19	19	90	90	#4	3'-0"					18
A32	7	7	#6	33'-5"					351	351	91	91	#6	33'-5"					350	350	92	92	#6	33'-5"					349



BILL OF MATERIALS		
Item		Retaining Wall
Concrete, Class 40	225	225
Reinforcing Steel	655	225
2" Piles	No	7
3" Piles	225	225

PROJECT NO. 821911G1
BUNCOMBE COUNTY
STATION 25+07.35

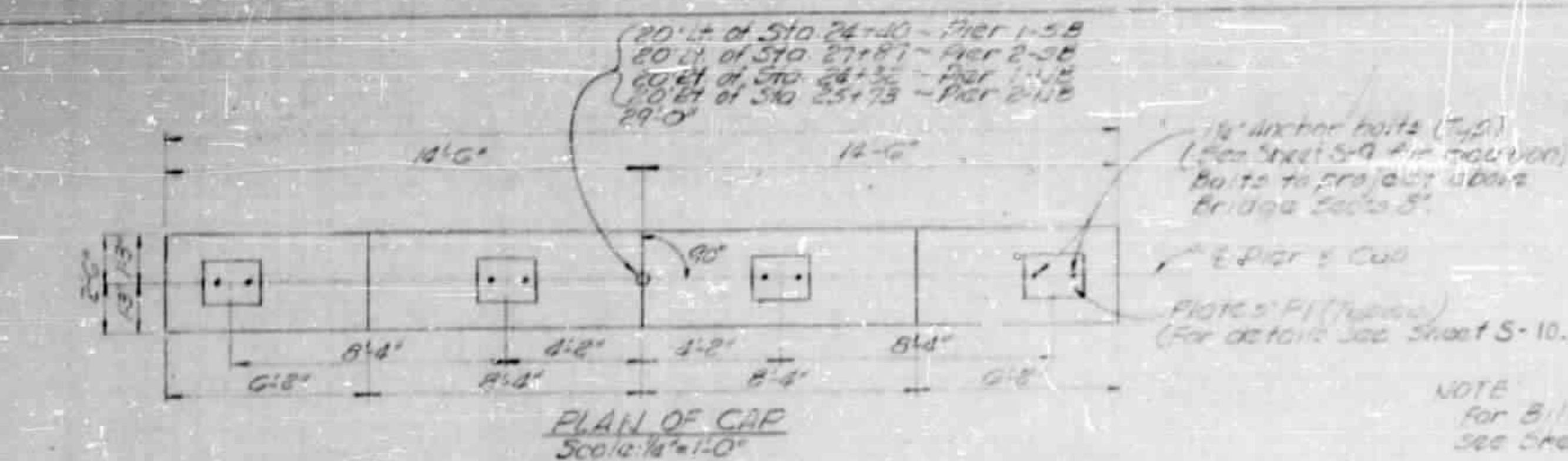
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH

WASHEVILLE - WEAVERVILLE - CONN.
over BREVARD RD. (Rte. 191) & HOMINY
3 SPAN DECK, PLATE GIRDER

END BENTS, RETAINING WALL
ABUTMENTS
SCALE AS SHOWN

S-4
110

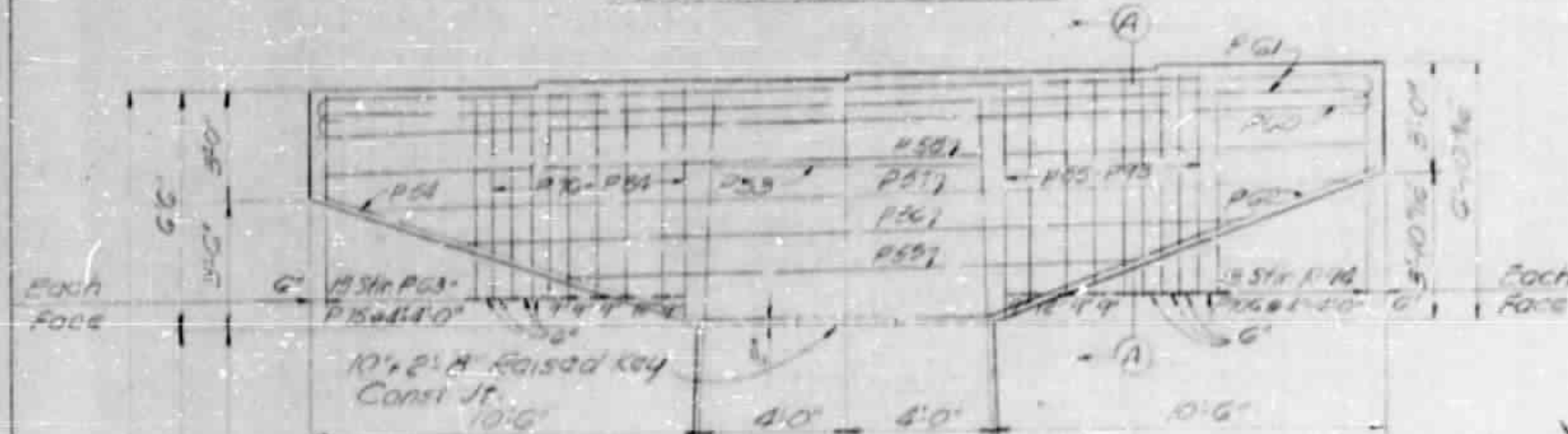
ORIGINAL	DESTROYED BY	DATE
	REMOVED BY	DATE
	TRANSFERRED BY	DATE
	CHECKED BY	DATE



NOTE
For Bill of Reinforcement
See Sheet S-6

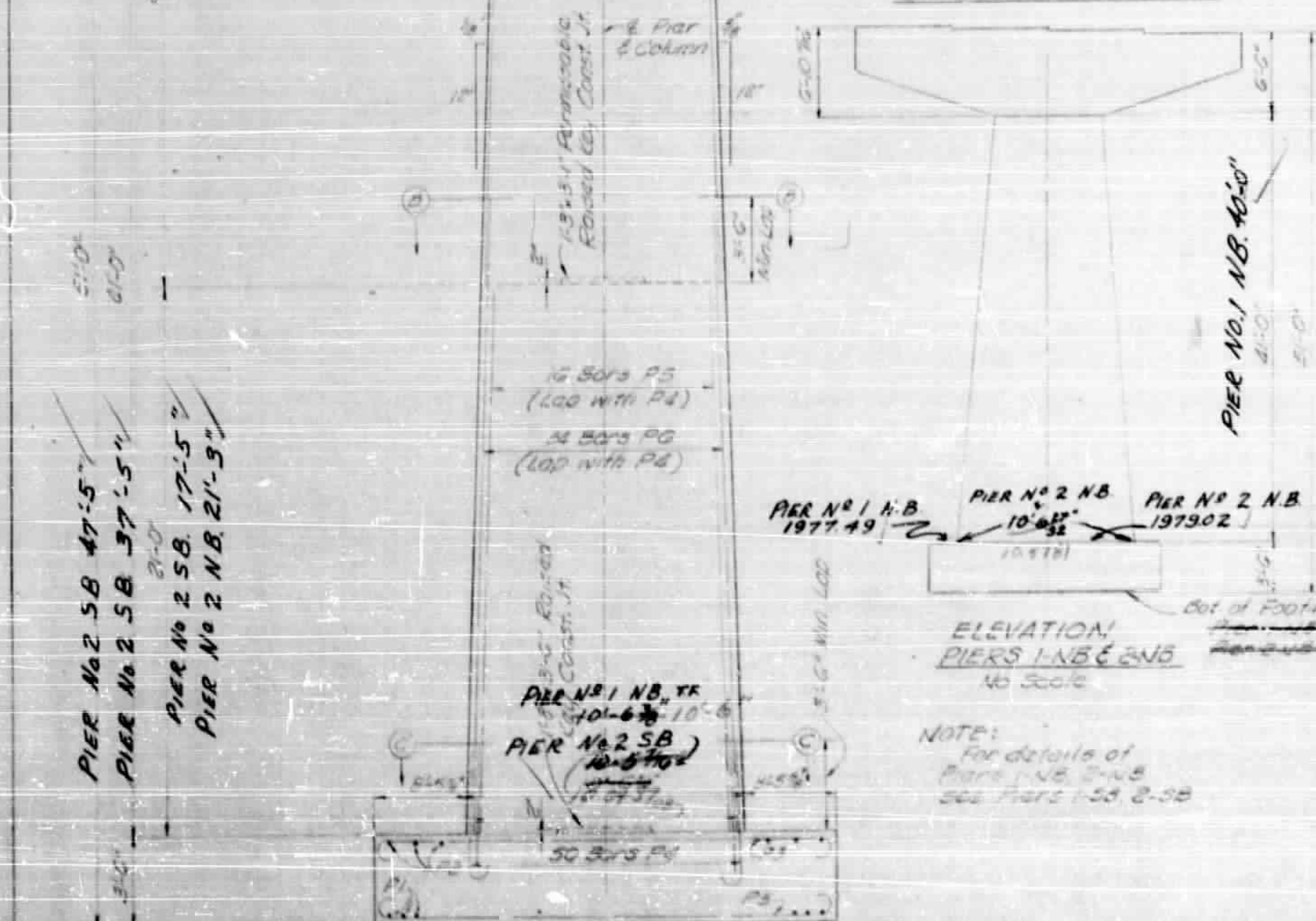
Pier 1-NB	2024.254	2024.072	2024.254	2024.254
Pier 2-SB	2024.254	2024.072	2024.254	2024.254

BRIDGE SEAT ELEV.

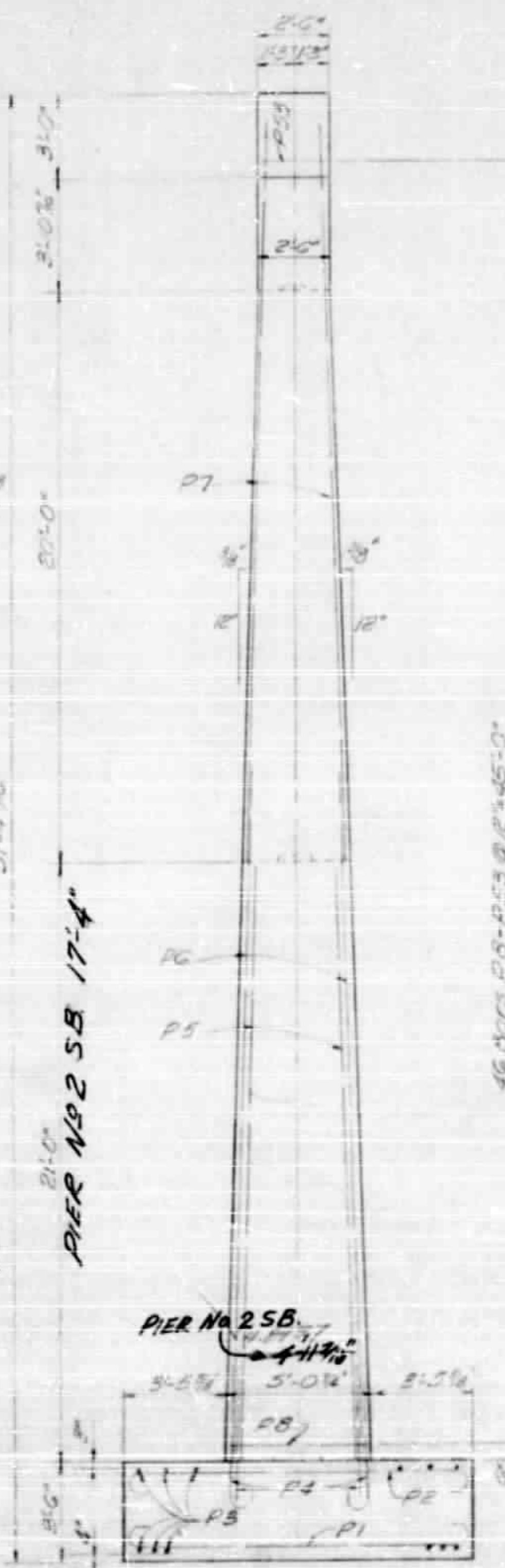


2024.254	2024.254	2024.254	2024.254	Pier 1-NB
2024.254	2024.254	2024.254	2024.254	Pier 2-NB

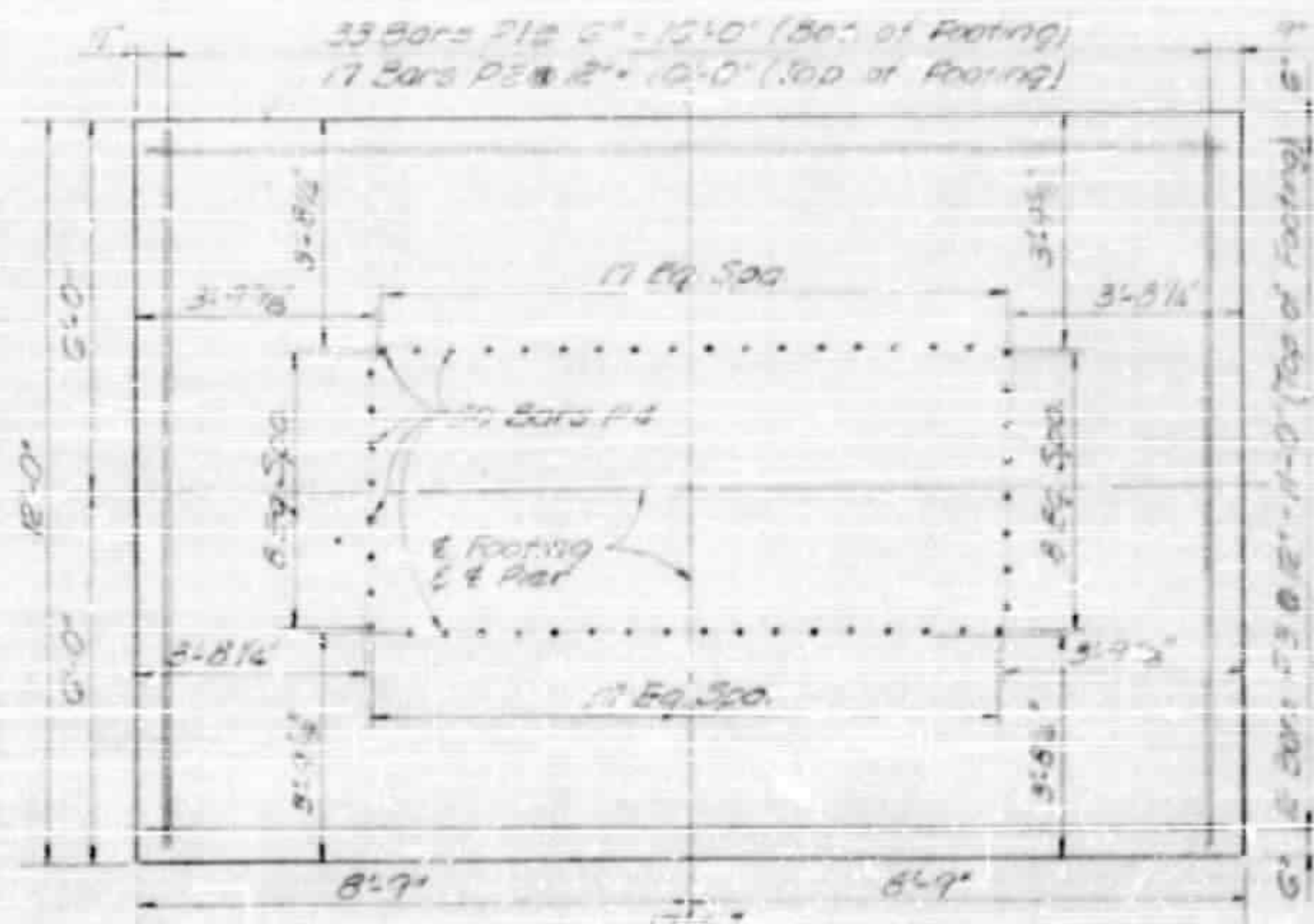
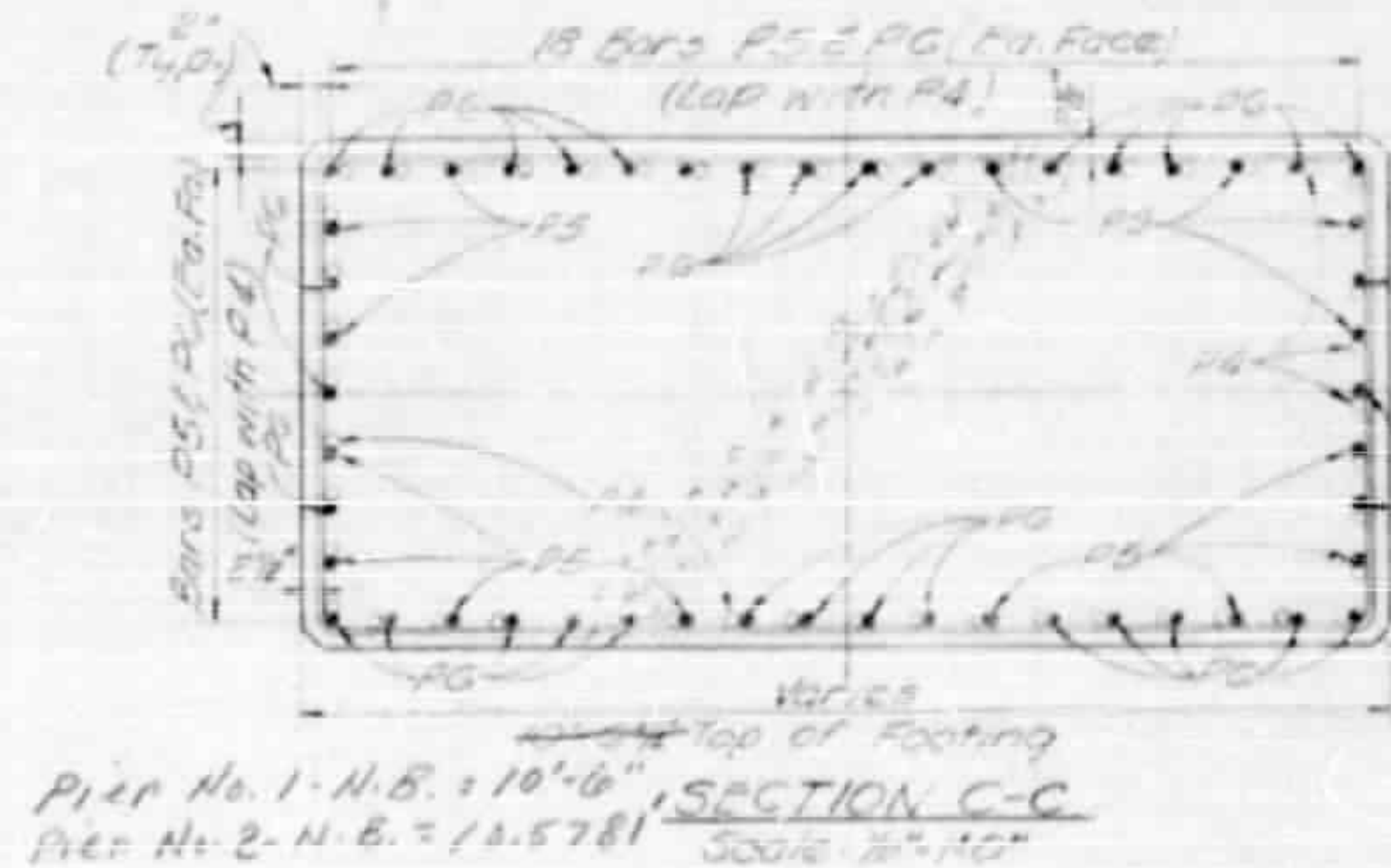
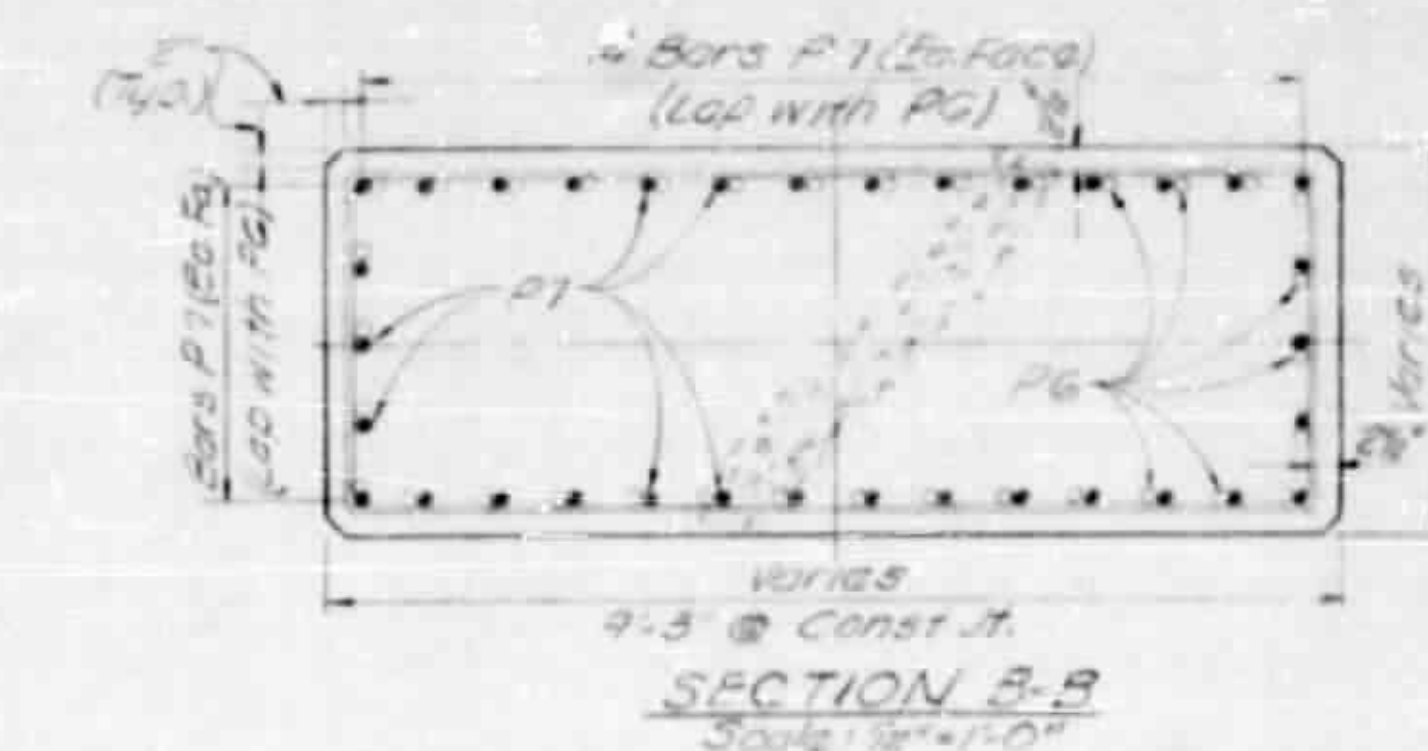
BRIDGE SEAT ELEV.



ELEVATION - PIERS 1-NB & 2-NB
Scale: 1/4"=1'-0"

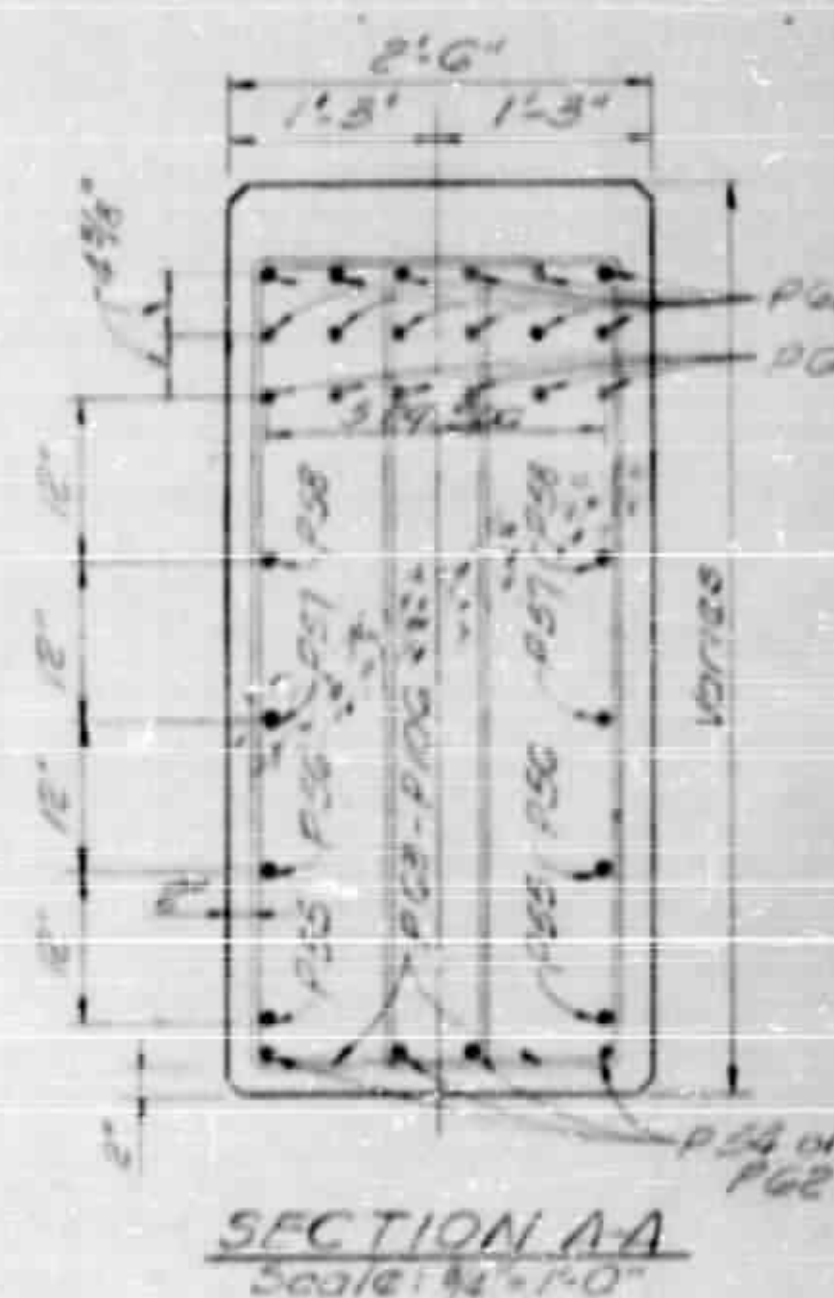


END ELEVATION
Scale: 1/4"=1'-0"



PLAN OF FOOTING
Scale: 1/4"=1'-0"

BILL OF MATERIAL		Pier 1-NB		Pier 2-NB	
Concrete, Class 4"	CY	97.01	96.35	101.22	101.22
Reinforcing Steel	lbs	20,577	20,577	20,577	20,577
Structure Excavation (Dry)	CY	10,500	10,500	10,500	10,500
Structure Excavation (Wet)	CY	69.27	69.27	69.27	69.27



PROJECT NO. 8-31101
BUNCOMBE COUNTY
STATION 25+07.35

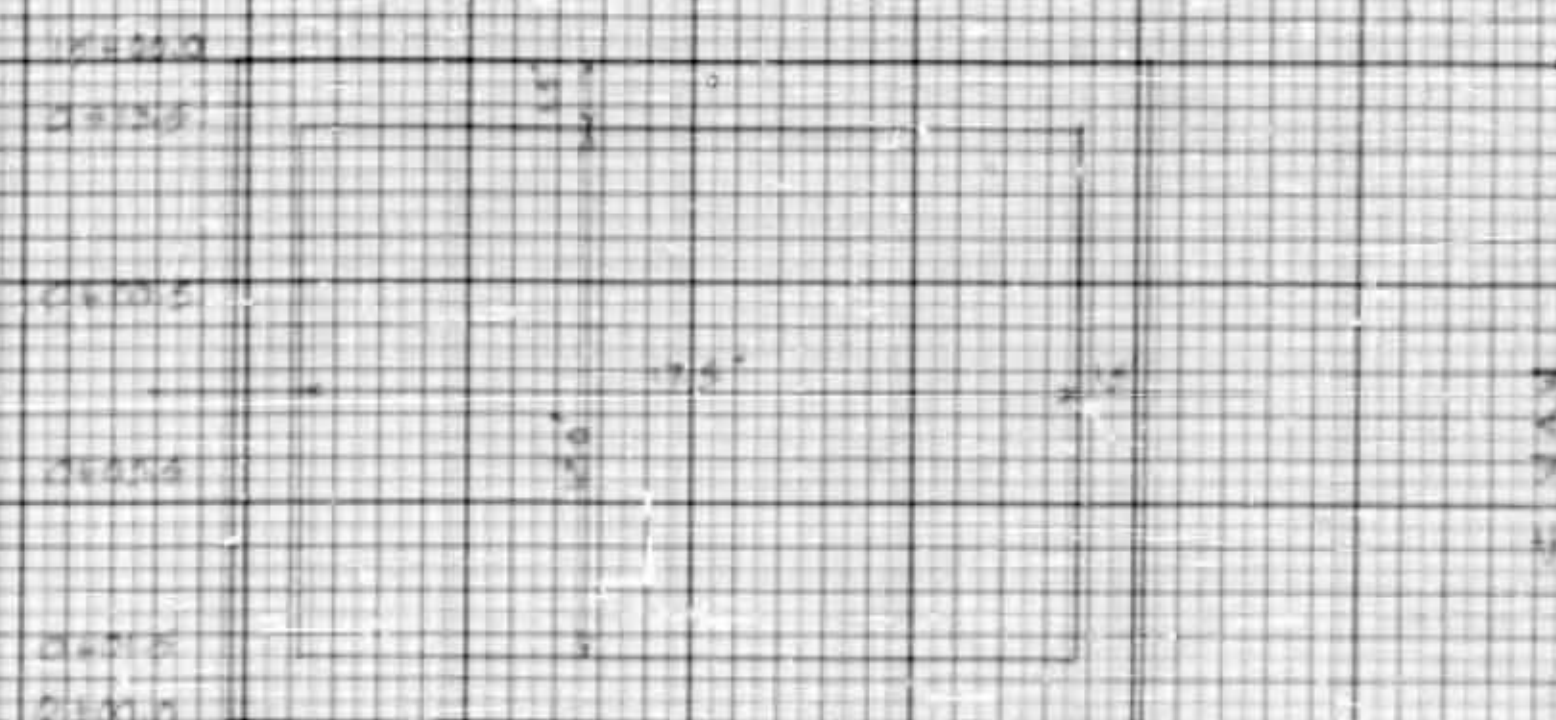
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
WASHEVILLE-WEAVERVILLE-CONN.
over BREVARDD RD (Rt 151) & HOMINY
3 SPAN DECK PLATE GIRDER
PIERS

SCALE AS SHOWN

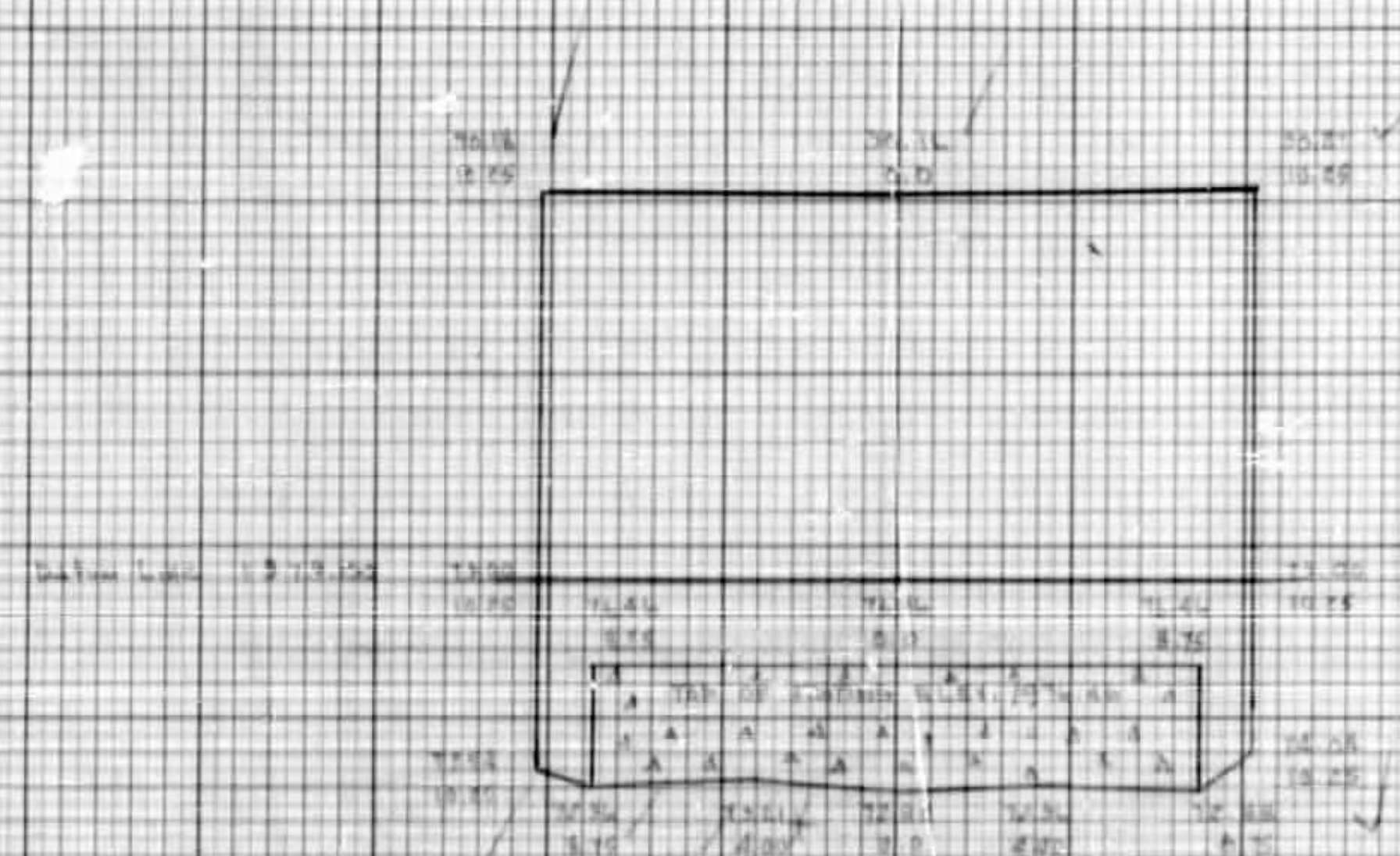
S-5

110

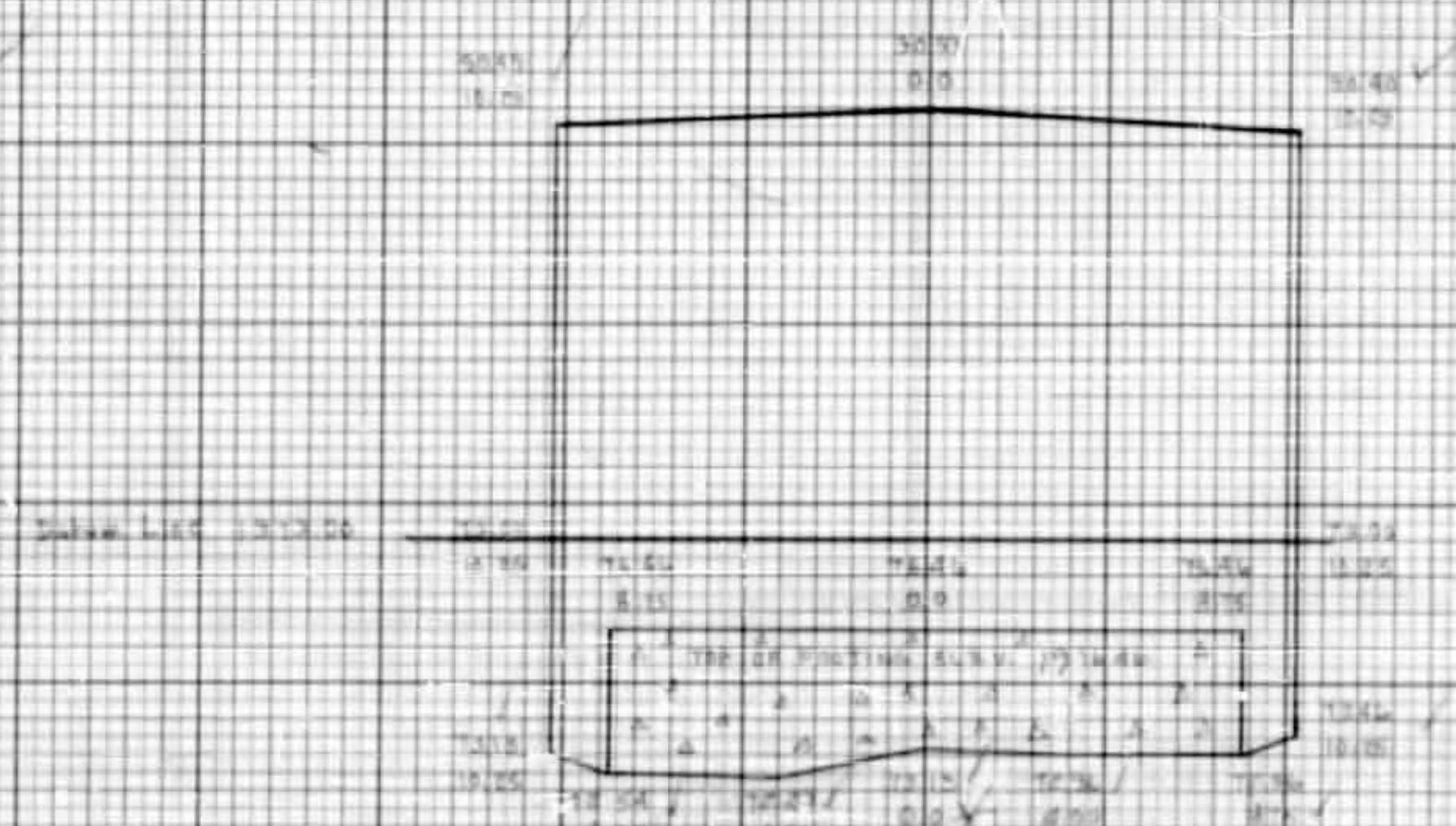
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	8-3191101	5-6	110
F.A. PROJ. NO. APD-34-1(4)			



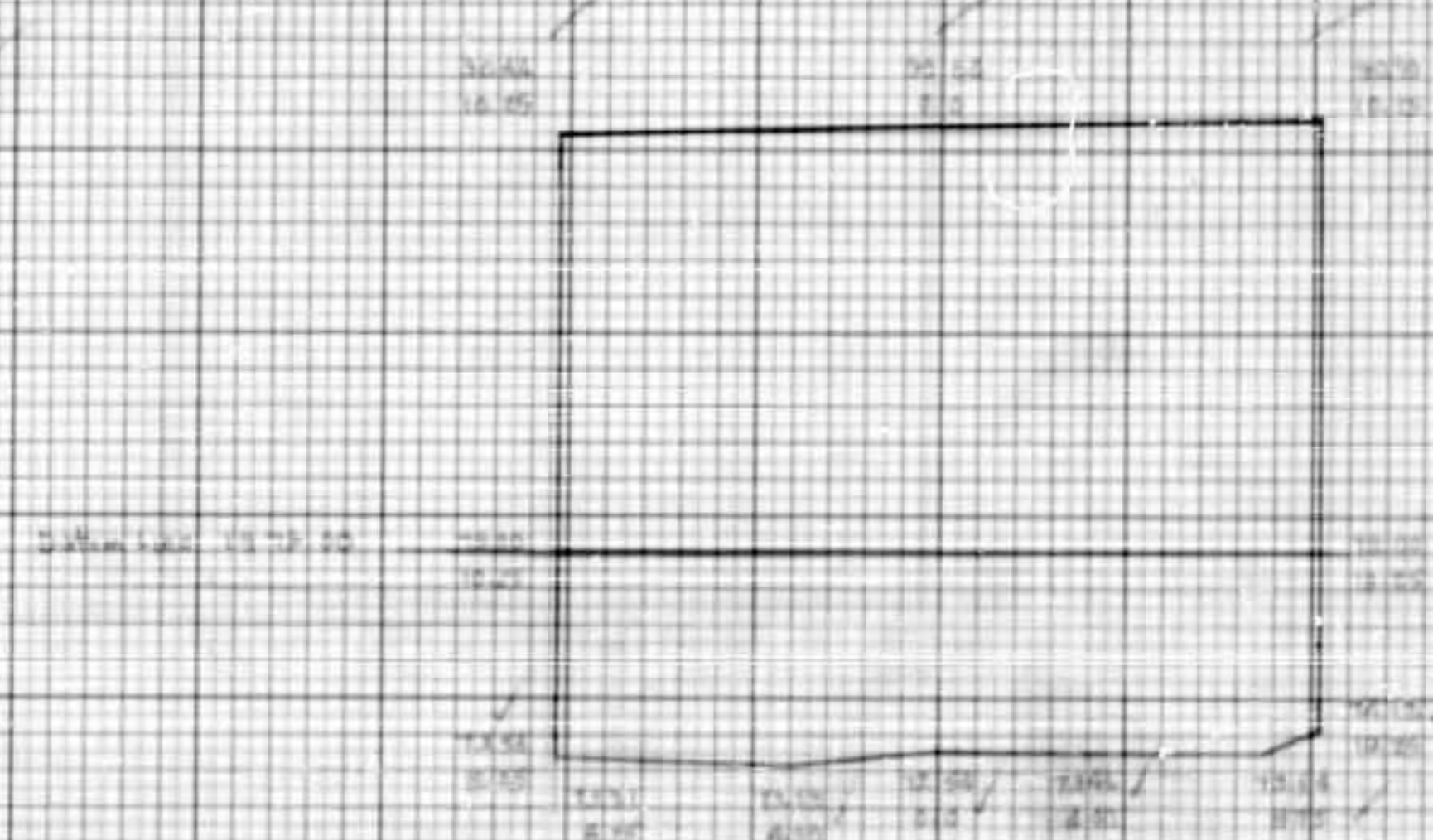
SEE BOOK 5-2 P-13 ORIG X-503
SEE BOOK 5-2 P-14 & 15 FINAL X-503



0406
DAY EXCEL A: 20745
WED EXCEL A: 12205
KID & FISH A: 60671

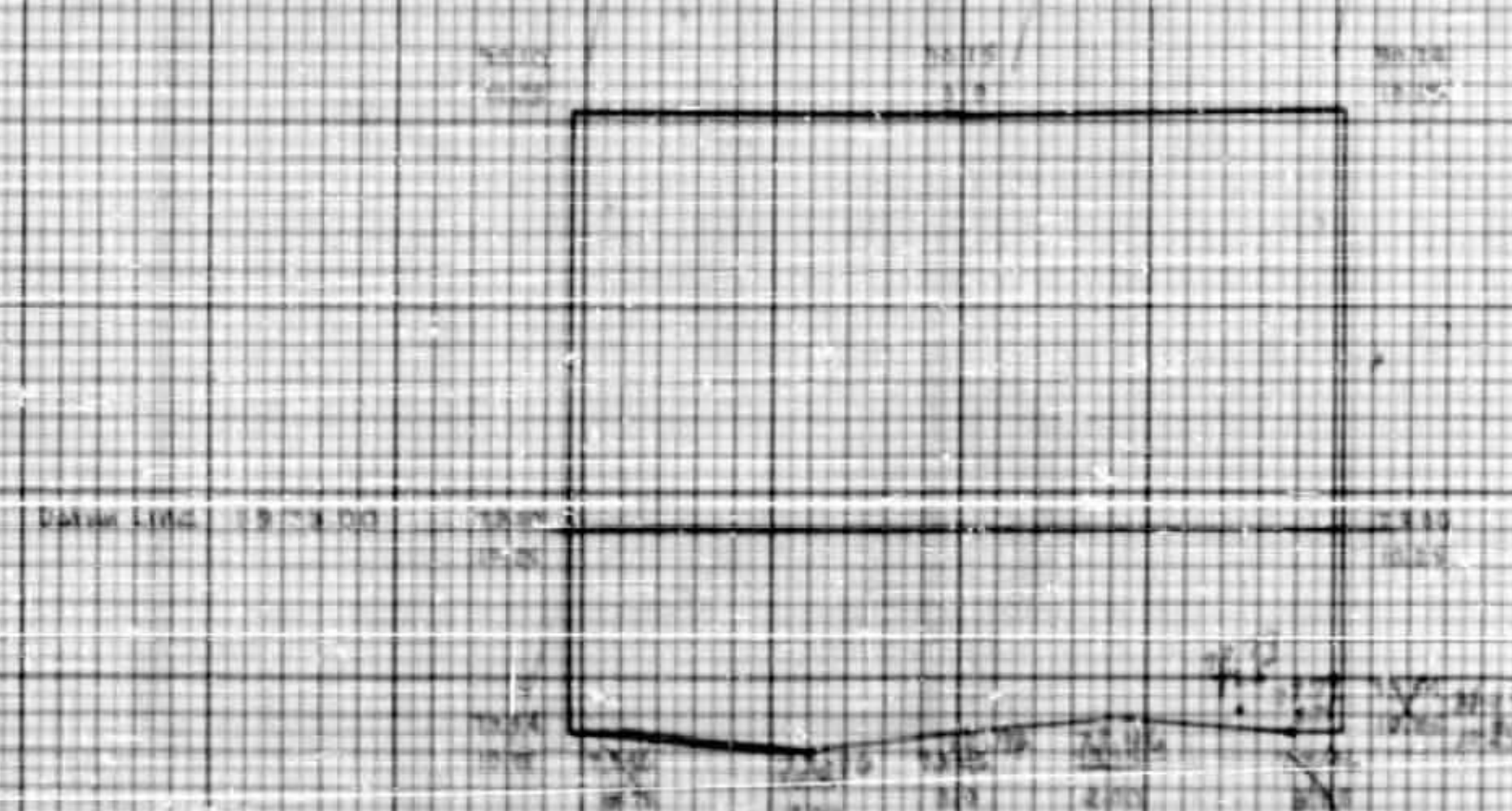


Day 4/10/21	A = 423.05
Day 5/10/21	A = 126.88
Close in 2021	A = 64.50 ✓



Day EXAM $N = 29070$
 Night EXAM $N = 11447$

Dry Excavation					
Location	Dist	Area	Ac Area	cu Yd	Remarks
D 405.0	1.5	226.38	226.38	10.781	Chaser
D 401.5	4.0	330.67	330.67	36.37	
A 409.5	4.0	330.78	330.78	36.37	
D 404.5	4.0	330.67	330.67	36.36	
D 403.5	4.0	330.67	330.67	36.36	
D 402.5	1.5	226.38	226.38	10.78	
D 401.0		226.38	226.38		Stone
Total				20.40	



$D = 20.0$
 EXCAV. $A = 228.28$
 EXCAV. $A = 114.19 / 13.29$



D: 405.5

DRY FLOW	A=230.75
WET FLOW	A=120.09
COAL FLOW	A=66.25



0.0005

Day 4: 0.0005 $\Delta = 0.0005$

Day 5: 0.0005 $\Delta = 0.0005$

Day 6: 0.0005 $\Delta = 0.0005$

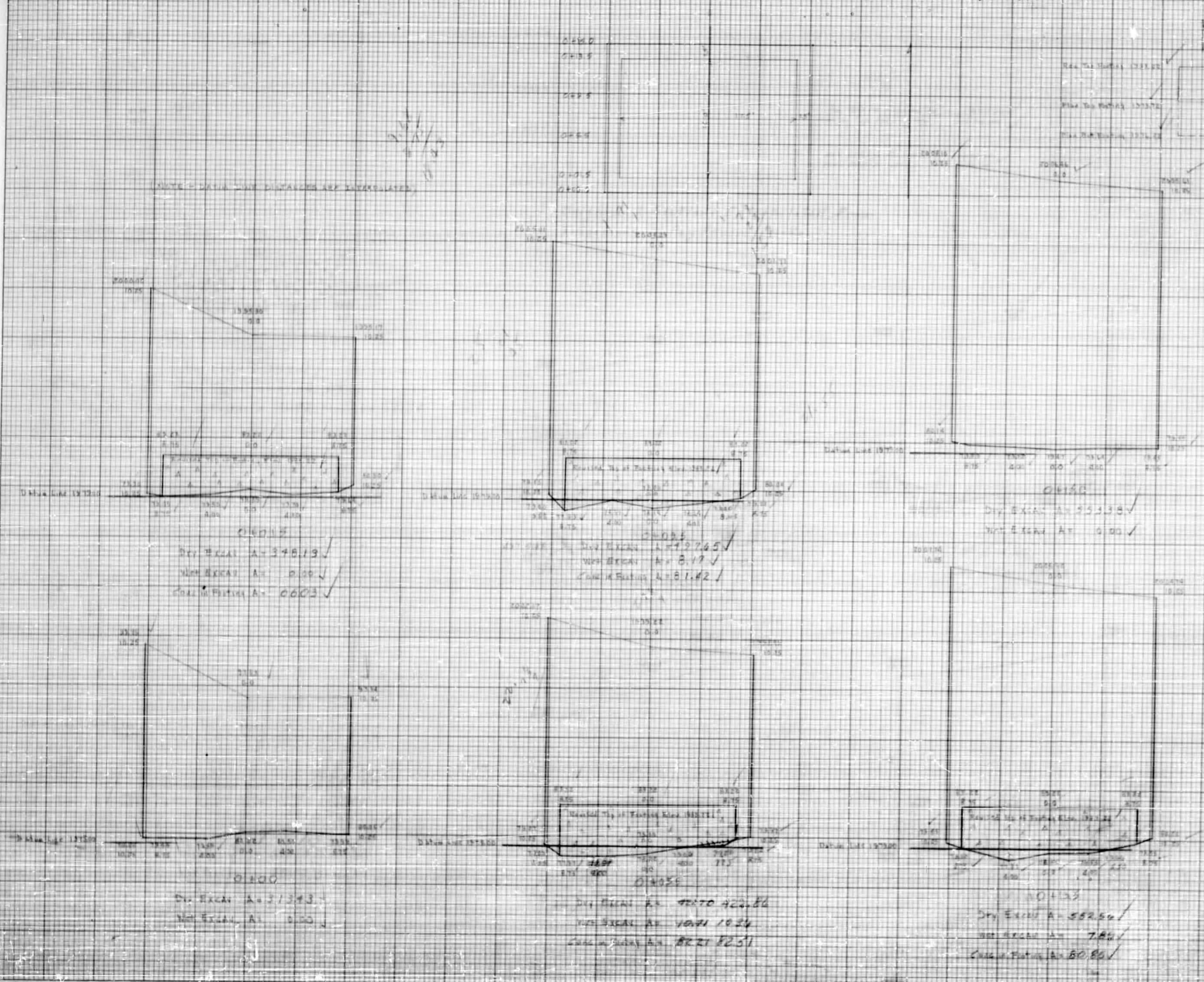
Station	Date	Area	hd Area	Est'd	Remarks
040051	1-2	11419	11727	3.59	Thick
040051	1-2	11805	11812	0.50	
040051	1-2	12377	12377	1.85	✓
040051	1-2	12700	12700	1.89	✓
040051	1-2	12658	12512	1.93	✓
040051	1-2	12376	11918	0.02	
040051	1-2	11771			3880

[illegible]

FLORIN CASE IN PIER	27.55
LESS FERRY FARE	24.84
FLORIN CASE IN FOOTING	24.42
FLORIN CASE IN PIER	27.55

EXCAVATION CROSS SECTIONS PIER NO 2 STA 25+07.55 SB

STATE PROJECT NO. SHEET NO. TOTAL SHEETS
A.C. 8.319101 5-7 110
S.A. PROJ. NO. APD-34-1(4)



SEE BOOK 5-2 P-17-18 ORIG X-SEC
SEE BOOK 5-2 P-19-20 FINAL X-SEC

Excavation

Station	Dist	Area	Area	Area	Remarks
0+00.0	1.5	31.343	31.343	1.338	THICK
0+01.5	1.5	31.313	31.313	1.338	
0+03.0	1.5	31.283	31.283	1.338	
0+04.5	1.5	31.253	31.253	1.338	
0+06.0	1.5	31.223	31.223	1.338	
0+07.5	1.5	31.193	31.193	1.338	
0+09.0	1.5	31.163	31.163	1.338	
0+10.5	1.5	31.133	31.133	1.338	
0+12.0	1.5	31.103	31.103	1.338	
Total		311.103	311.103	13.338	

Excavation

Station	Dist	Area	Area	Area	Remarks
0+00.0	1.5	31.343	31.343	1.338	THICK
0+01.5	1.5	31.313	31.313	1.338	
0+03.0	1.5	31.283	31.283	1.338	
0+04.5	1.5	31.253	31.253	1.338	
0+06.0	1.5	31.223	31.223	1.338	
0+07.5	1.5	31.193	31.193	1.338	
0+09.0	1.5	31.163	31.163	1.338	
0+10.5	1.5	31.133	31.133	1.338	
0+12.0	1.5	31.103	31.103	1.338	
Total		311.103	311.103	13.338	

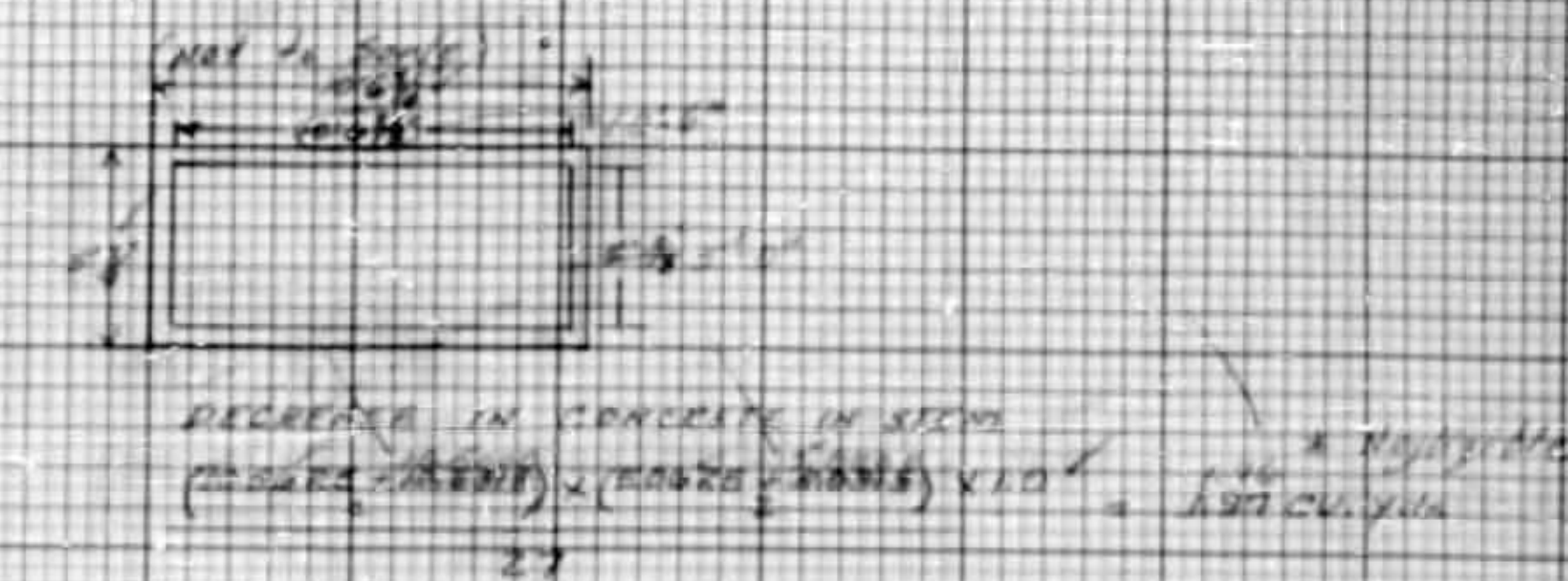
Excavation

Station	Dist	Area	Area	Area	Remarks
0+00.0	1.5	31.343	31.343	1.338	THICK
0+01.5	1.5	31.313	31.313	1.338	
0+03.0	1.5	31.283	31.283	1.338	
0+04.5	1.5	31.253	31.253	1.338	
0+06.0	1.5	31.223	31.223	1.338	
0+07.5	1.5	31.193	31.193	1.338	
0+09.0	1.5	31.163	31.163	1.338	
0+10.5	1.5	31.133	31.133	1.338	
0+12.0	1.5	31.103	31.103	1.338	
Total		311.103	311.103	13.338	

Final Conc. in Pier 25.80
1055 ft. conc. in Pier 25.80
Final Conc. in Pier 25.80
1055 ft. conc. in Pier 25.80

EXCAVATION CROSS SECTIONS PIER NO. 1 NB STA 25+07.55

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	8.319101	S-8	110
F.A. PROJ. NO. APD 34-1(4)			



SEE BOOK 5-1 P. 14 OR 15 X 5FO
SEE BOOK 5-1 P. 17-18 FINAL X-5FO

Original X-Sections Interpolated From
X-Sections in Pay Record Books

EXCAVATION DATA

STATION	DIST	AREA	AV. AREA	CUM. YD.	REMARKS
0+00	1.5	375.10	367.10	20.39	
0+015	1.5	359.11	358.46	50.14	
0+030	1.5	317.50	303.78	45.00	
0+045	1.5	289.77	272.10	41.35	
0+060	1.5	268.85	257.91	147.2	
0+075	1.5	251.38			
Total Cu. Yds. 171.60					

EXCAVATION DATA

STATION	DIST	AREA	AV. AREA	CUM. YD.	REMARKS
0+00	1.5	98.02	106.00	4.04	5.17
0+015	1.5	117.95	117.42	15.40	16.75
0+030	1.5	176.80	113.42	14.15	17.62
0+045	1.5	114.39	110.42	16.45	16.29
0+060	1.5	107.40	107.40	5.66	
0+075	1.5	66.46			
Total 62.41 41.61					

CONCRETE IN PIER

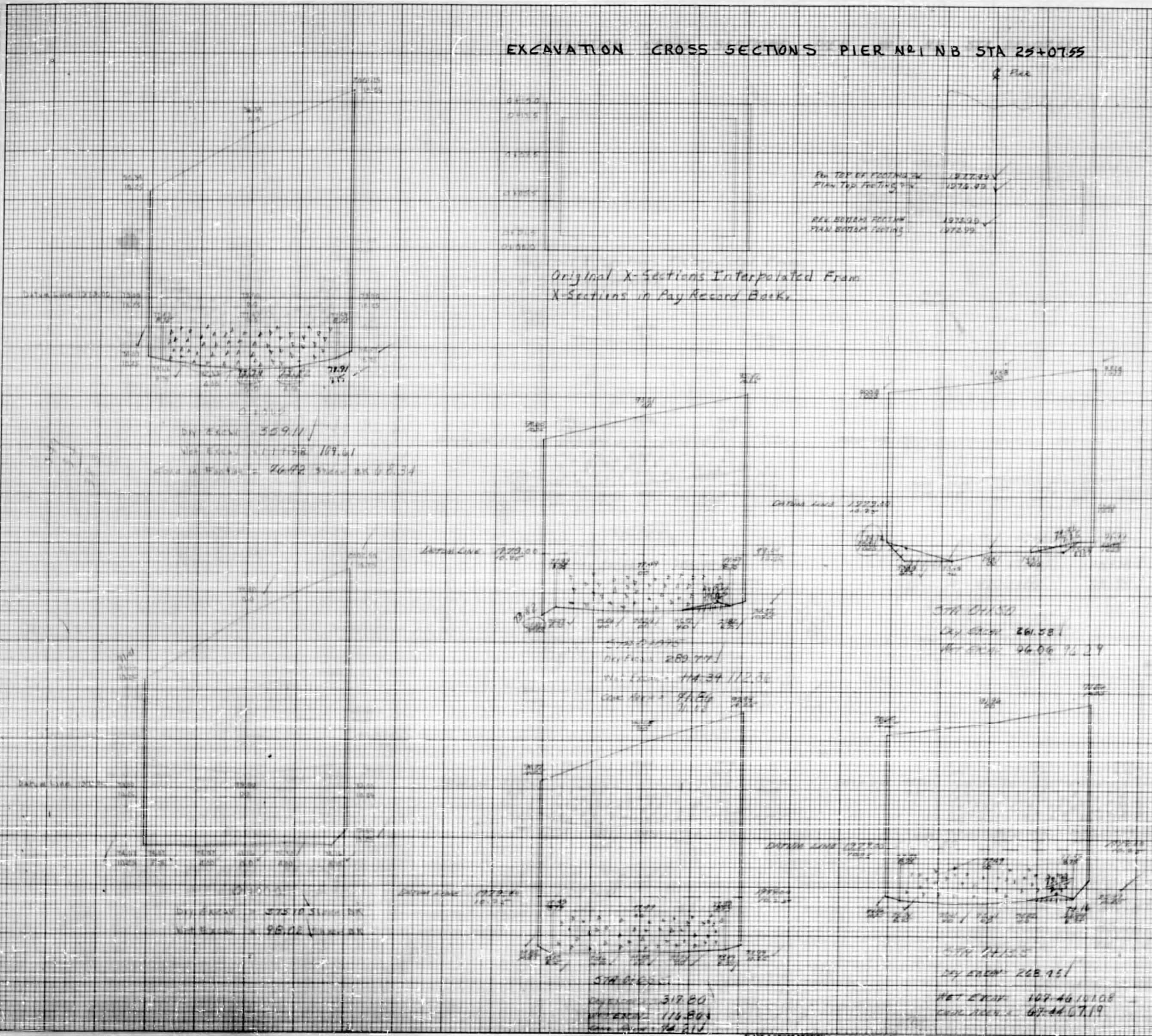
STATION	DIST	AREA	AV. AREA	CUM. YD.	REMARKS
0+00	1.5	65.4	71.25	11.18	10.60
0+015	1.5	74.21	75.44	10.82	10.76
0+030	1.5	71.50	71.50	14.02	14.24
0+045	1.5	71.44	71.44	14.02	14.24
0+060	1.5	71.44	71.44	14.02	14.24
0+075	1.5	71.44	71.44	14.02	14.24
Total 36.00 cu. yds.					

PLAN VIEW OF PIER
DECREASE IN CONCRETE IN PIER
DECREASE IN CONCRETE IN PIER
DECREASE IN CONCRETE IN PIER
DECREASE IN CONCRETE IN PIER

TOTAL CONCRETE IN PIER

CR 9-24-68

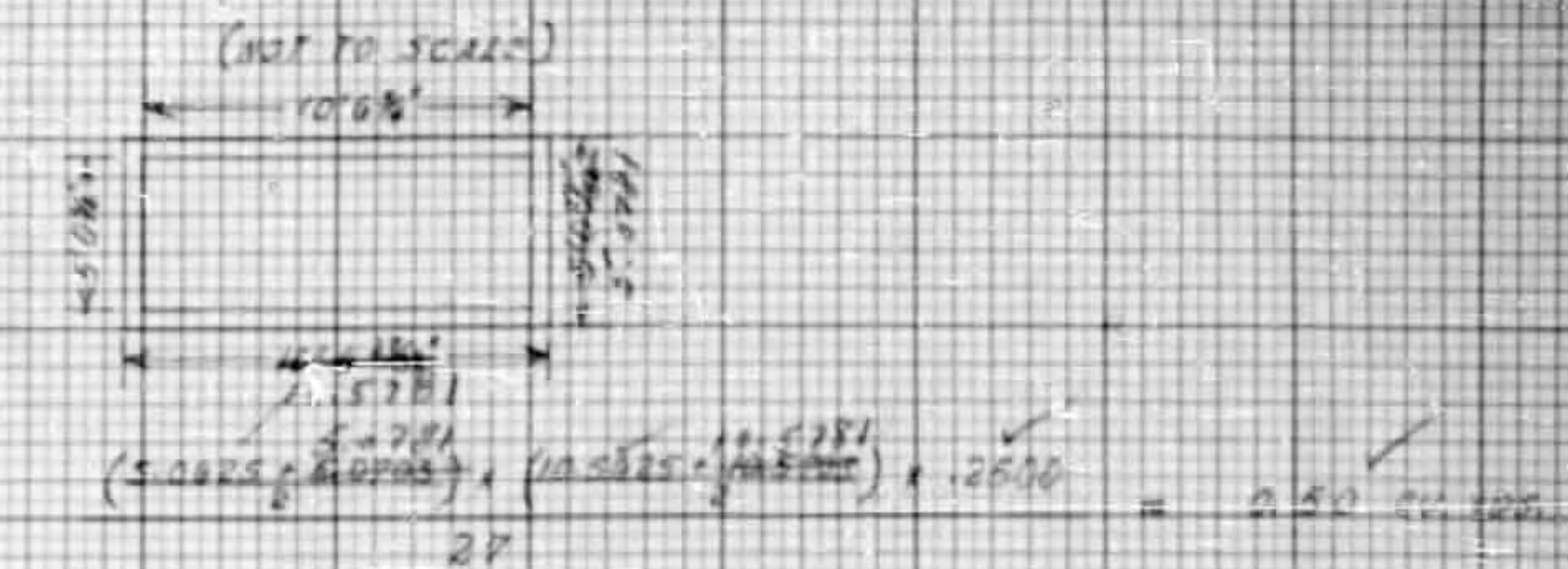
PLATE 3 CROSS SECTIONS PIER NO. 1 NB STA 25+07.55



EXCAVATION CROSS SECTIONS PIER NO 2 NB STA 25+07.55

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	83M101	S-9	110
P.C. PROJ. NO.			APD 34-1(4)

INCREASE IN CONCRETE ON STEM



SEE BOOK 3-1 P. 21 ORIG X-SEC
SEE BOOK 3-1 P. 22 FINISH X-SEC

EXCAVATION DRY

STA	DIST	AREA	AVG AREA	CU. YD.
0+00.0	1.5	33.67	51.12	2.84
0+01.5	4.0	48.57	112.85	10.72
0+05.5	4.0	152.13	181.14	26.91
0+09.5	4.0	204.18	222.08	32.99
0+13.5	4.0	239.18	245.18	33.62
0+15.0	1.5	251.18		
		TOTAL		93.08

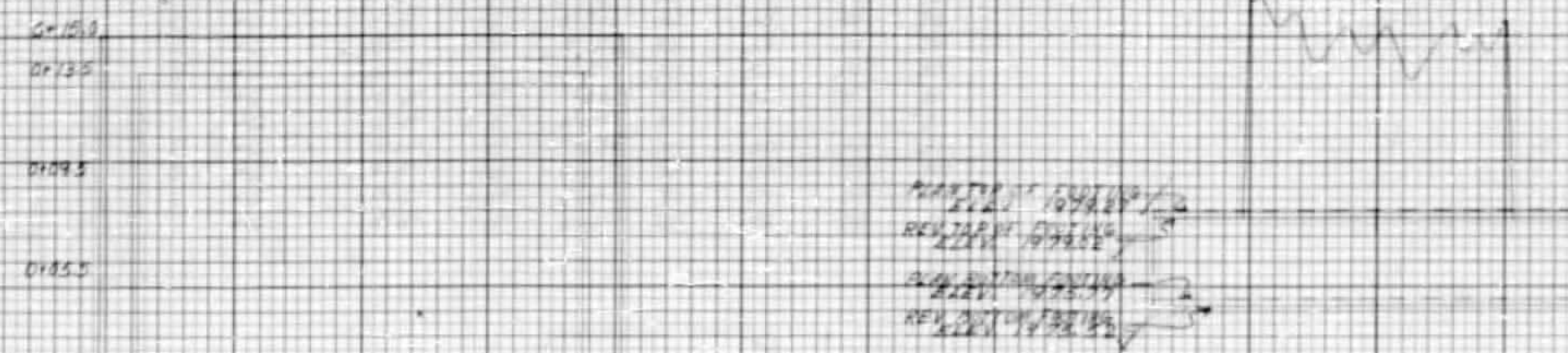
EXCAVATION WET

STA	DIST	AREA	AVG AREA	CU. YD.
0+00.0	1.5	70.65	74.26	4.12
0+01.5	4.0	77.88	78.83	11.68
0+05.5	4.0	79.78	82.40	12.25
0+09.5	4.0	85.15	86.12	12.61
0+13.5	4.0	85.08	84.42	11.69
0+15.0	1.5	83.75		
		TOTAL		46.32

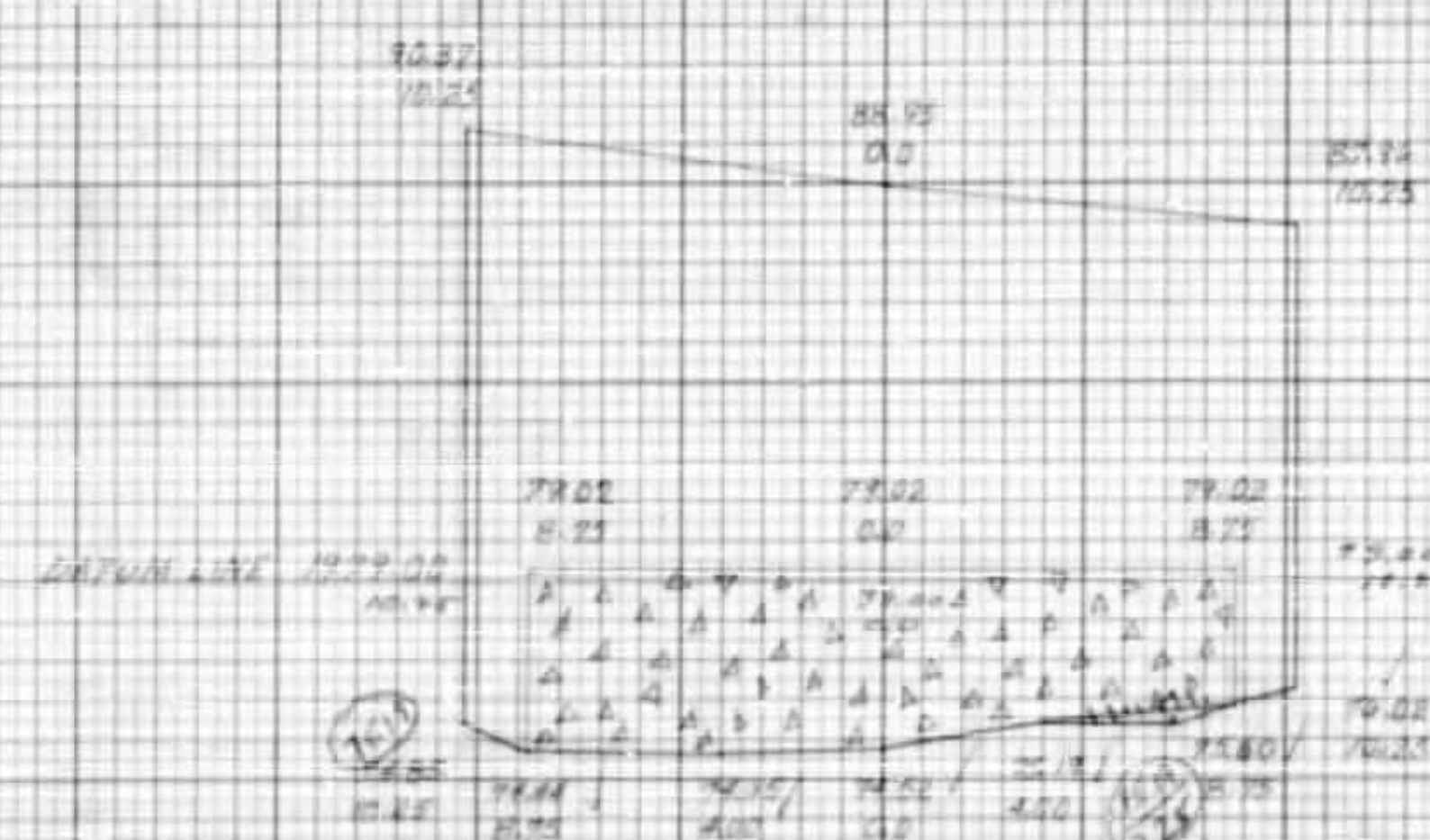
CONCRETE IN FOOTING

STA	DIST	AREA	AVG AREA	CU. YD.
0+00.0	1.5	68.95	64.70	10.33
0+01.5	4.0	70.50	72.34	18.77
0+05.5	4.0	74.23	74.23	11.04
0+13.5	4.0	74.23		
0+15.0	1.5			
		TOTAL		32.14

PLAN CONC IN PIER 95.80
PLAN CONC IN FOOTING 32.14
TOTAL CONC IN PIER 127.94



Original X-Section Interpolated From
X-Sections in Book



DRY EXCAV 204.18
WET EXCAV 222.08
CONC AREA 74.19

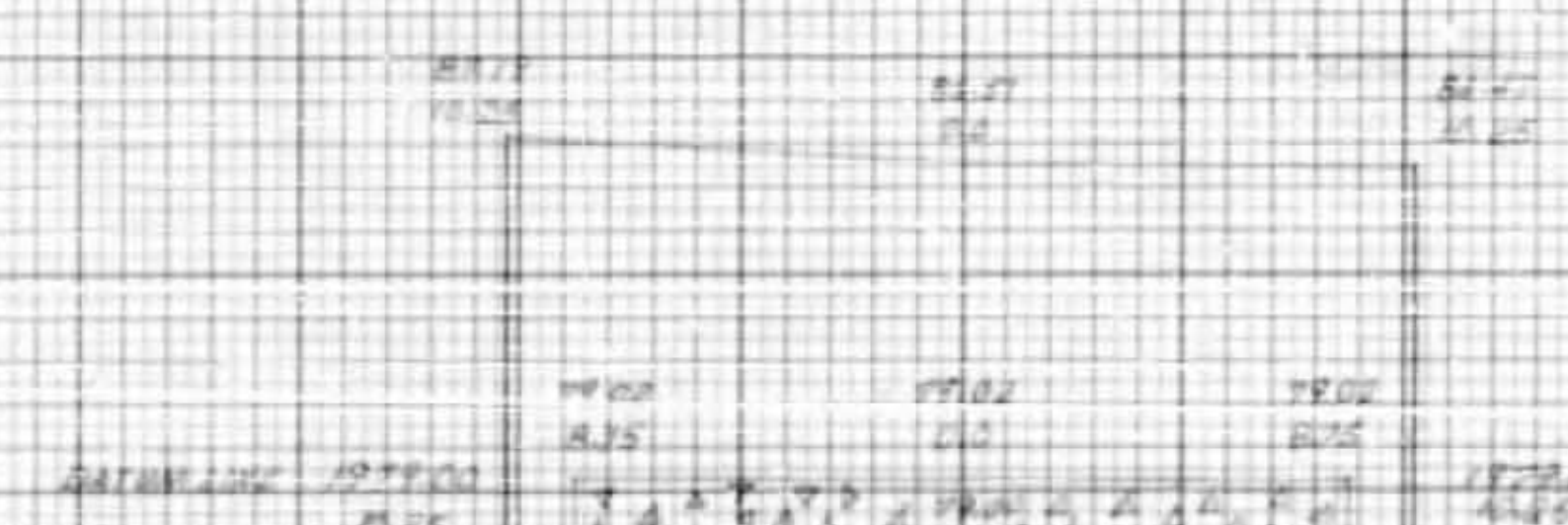
DRY EXCAV 251.18
WET EXCAV 83.75



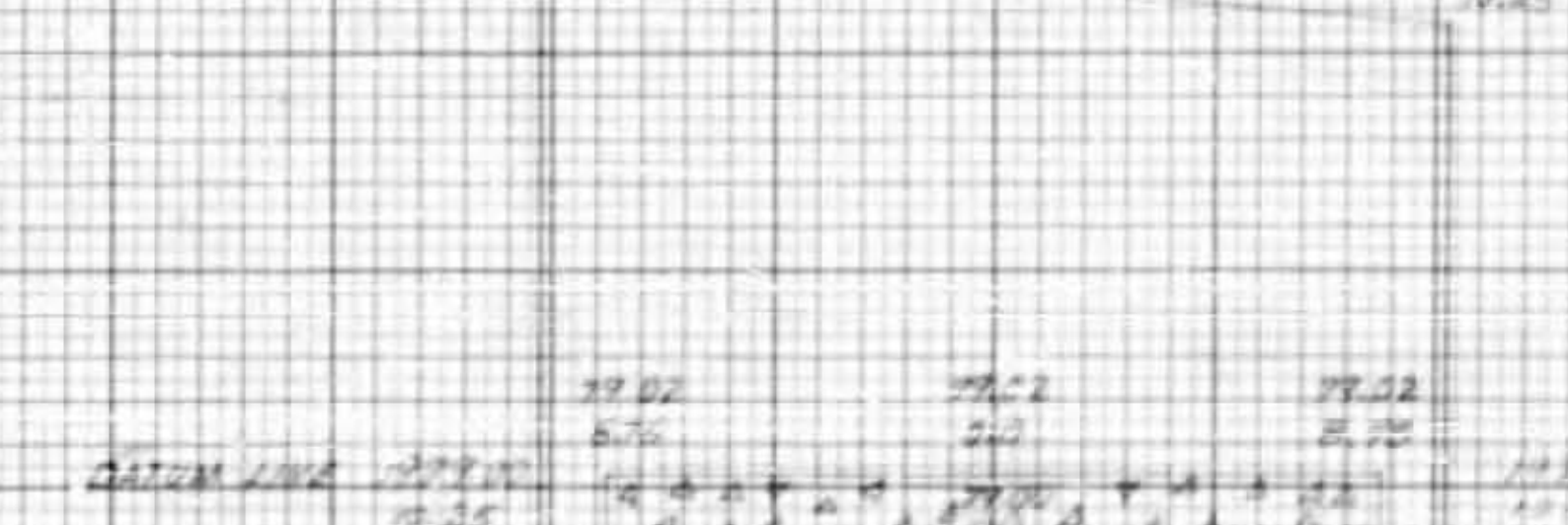
DRY EXCAV 68.57
WET EXCAV 77.88
CONC AREA 48.95



DRY EXCAV 33.67
WET EXCAV 70.65



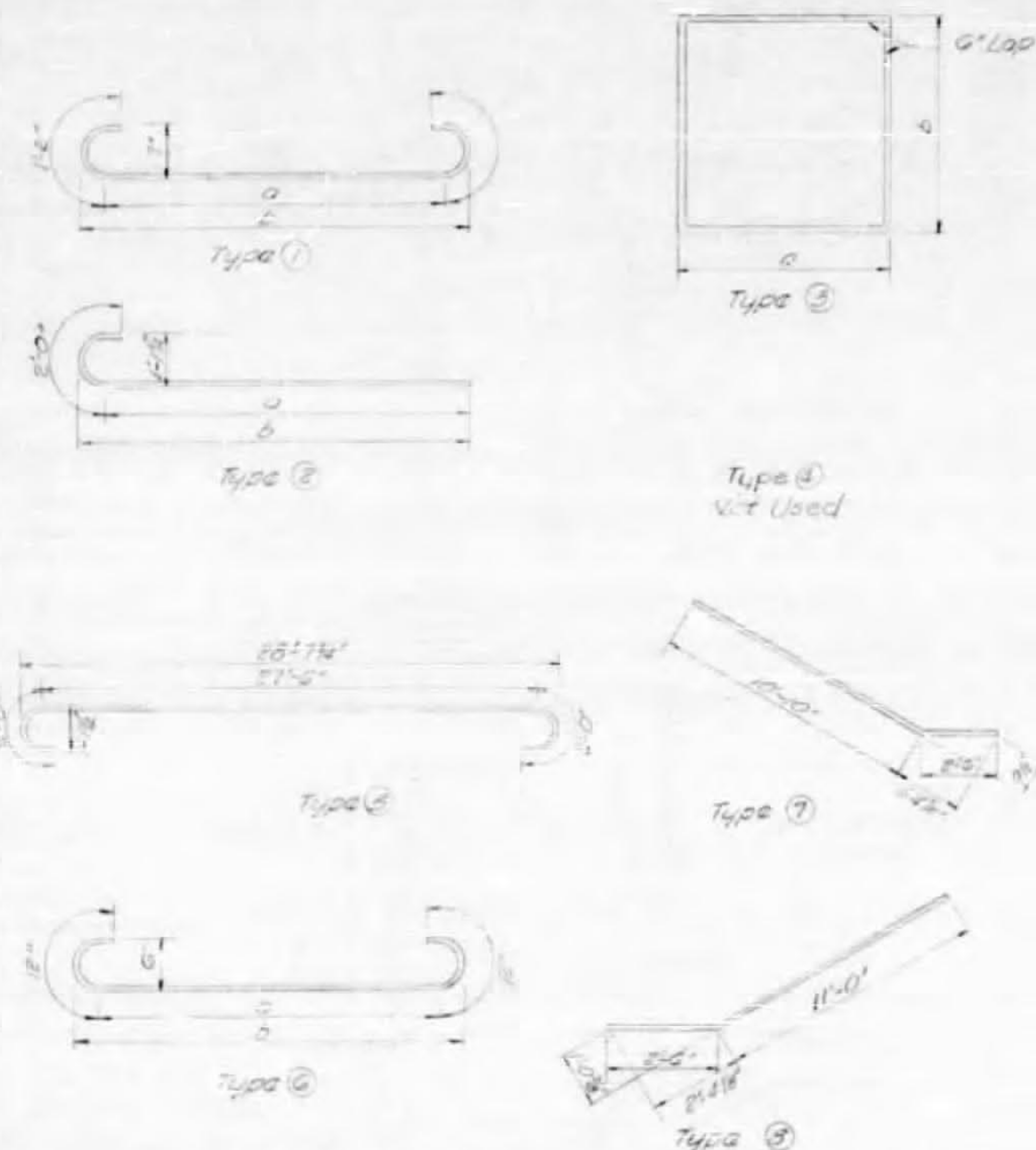
DRY EXCAV 152.13
WET EXCAV 222.08
CONC AREA 70.50



DRY EXCAV 239.18
WET EXCAV 85.08
CONC AREA 74.23

FED. ROAD DIST. NO.	STATE	PROJECT
5	N.C.	83/910
AIR Project APD-54-1(4)		

BOR	NO.				Size	Type	Length	a	b	WT	P-58	P-58	P-1-NB	P-2-NB	BOR	NO.				Size	Type	Length	a	b	WT	P-58	P-58	P-1-NB	P-2-NB			
	P-58	P-58	P-1-NB	P-2-NB												P-58	P-58	P-1-NB	P-2-NB													
P1	33	33	33	33	7	①	15'-0"	10'-10"	11'-0"	875	875	875	875	P1	33	33	33	33	7	①	15'-0"	10'-10"	11'-0"	875	875	875	875	P1	33	33	33	33
P2	17	17	17	17	7	②	10'-0"	11'-0"	11'-0"	875	875	875	875	P2	17	17	17	17	7	②	10'-0"	11'-0"	11'-0"	875	875	875	875	P2	17	17	17	17
P3	35	35	35	35	7	③	10'-0"	11'-0"	11'-0"	875	875	875	875	P3	35	35	35	35	7	③	10'-0"	11'-0"	11'-0"	875	875	875	875	P3	35	35	35	35
P4	30	30	30	30	7	④	10'-0"	11'-0"	11'-0"	875	875	875	875	P4	30	30	30	30	7	④	10'-0"	11'-0"	11'-0"	875	875	875	875	P4	30	30	30	30
P5	16	16	16	16	7	⑤	10'-0"	11'-0"	11'-0"	875	875	875	875	P5	16	16	16	16	7	⑤	10'-0"	11'-0"	11'-0"	875	875	875	875	P5	16	16	16	16
P6	34	34	34	34	7	⑥	10'-0"	11'-0"	11'-0"	875	875	875	875	P6	34	34	34	34	7	⑥	10'-0"	11'-0"	11'-0"	875	875	875	875	P6	34	34	34	34
P7	34	34	34	34	7	⑦	10'-0"	11'-0"	11'-0"	875	875	875	875	P7	34	34	34	34	7	⑦	10'-0"	11'-0"	11'-0"	875	875	875	875	P7	34	34	34	34
P8	1	1	1	1	7	⑧	10'-0"	11'-0"	11'-0"	875	875	875	875	P8	1	1	1	1	7	⑧	10'-0"	11'-0"	11'-0"	875	875	875	875	P8	1	1	1	1
P9	1	1	1	1	7	⑨	10'-0"	11'-0"	11'-0"	875	875	875	875	P9	1	1	1	1	7	⑨	10'-0"	11'-0"	11'-0"	875	875	875	875	P9	1	1	1	1
P10	1	1	1	1	7	⑩	10'-0"	11'-0"	11'-0"	875	875	875	875	P10	1	1	1	1	7	⑩	10'-0"	11'-0"	11'-0"	875	875	875	875	P10	1	1	1	1
P11	1	1	1	1	7	⑪	10'-0"	11'-0"	11'-0"	875	875	875	875	P11	1	1	1	1	7	⑪	10'-0"	11'-0"	11'-0"	875	875	875	875	P11	1	1	1	1
P12	1	1	1	1	7	⑫	10'-0"	11'-0"	11'-0"	875	875	875	875	P12	1	1	1	1	7	⑫	10'-0"	11'-0"	11'-0"	875	875	875	875	P12	1	1	1	1
P13	1	1	1	1	7	⑬	10'-0"	11'-0"	11'-0"	875	875	875	875	P13	1	1	1	1	7	⑬	10'-0"	11'-0"	11'-0"	875	875	875	875	P13	1	1	1	1
P14	1	1	1	1	7	⑭	10'-0"	11'-0"	11'-0"	875	875	875	875	P14	1	1	1	1	7	⑭	10'-0"	11'-0"	11'-0"	875	875	875	875	P14	1	1	1	1
P15	1	1	1	1	7	⑮	10'-0"	11'-0"	11'-0"	875	875	875	875	P15	1	1	1	1	7	⑮	10'-0"	11'-0"	11'-0"	875	875	875	875	P15	1	1	1	1
P16	1	1	1	1	7	⑯	10'-0"	11'-0"	11'-0"	875	875	875	875	P16	1	1	1	1	7	⑯	10'-0"	11'-0"	11'-0"	875	875	875	875	P16	1	1	1	1
P17	1	1	1	1	7	⑰	10'-0"	11'-0"	11'-0"	875	875	875	875	P17	1	1	1	1	7	⑰	10'-0"	11'-0"	11'-0"	875	875	875	875	P17	1	1	1	1
P18	1	1	1	1	7	⑱	10'-0"	11'-0"	11'-0"	875	875	875	875	P18	1	1	1	1	7	⑱	10'-0"	11'-0"	11'-0"	875	875	875	875	P18	1	1	1	1
P19	1	1	1	1	7	⑲	10'-0"	11'-0"	11'-0"	875	875	875	875	P19	1	1	1	1	7	⑲	10'-0"	11'-0"	11'-0"	875	875	875	875	P19	1	1	1	1
P20	1	1	1	1	7	⑳	10'-0"	11'-0"	11'-0"	875	875	875	875	P20	1	1	1	1	7	⑳	10'-0"	11'-0"	11'-0"	875	875	875	875	P20	1	1	1	1
P21	1	1	1	1	7	㉑	10'-0"	11'-0"	11'-0"	875	875	875	875	P21	1	1	1	1	7	㉑	10'-0"	11'-0"	11'-0"	875	875	875	875	P21	1	1	1	1
P22	1	1	1	1	7	㉒	10'-0"	11'-0"	11'-0"	875	875	875	875	P22	1	1	1	1	7	㉒	10'-0"	11'-0"	11'-0"	875	875	875	875	P22	1	1	1	1
P23	1	1	1	1	7	㉓	10'-0"	11'-0"	11'-0"	875	875	875	875	P23	1	1	1	1	7	㉓	10'-0"	11'-0"	11'-0"	875	875	875	875	P23	1	1	1	1
P24	1	1	1	1	7	㉔	10'-0"	11'-0"	11'-0"	875	875	875	875	P24	1	1	1	1	7	㉔	10'-0"	11'-0"	11'-0"	875	875	875	875	P24	1	1	1	1
P25	1	1	1	1	7	㉕	10'-0"	11'-0"	11'-0"	875	875	875	875	P25	1	1	1	1	7	㉕	10'-0"	11'-0"	11'-0"	875	875	875	875	P25	1	1	1	1
P26	1	1	1	1	7	㉖	10'-0"	11'-0"	11'-0"	875	875	875	875	P26	1	1	1	1	7	㉖	10'-0"	11'-0"	11'-0"	875	875	875	875	P26	1	1	1	1
P27	1	1	1	1	7	㉗	10'-0"	11'-0"	11'-0"	875	875	875	875	P27	1	1	1	1	7	㉗	10'-0"	11'-0"	11'-0"	875	875	875	875	P27	1	1	1	1
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P29	1	1	1	1	7	㉙	10'-0"	11'-0"	11'-0"	875	875	875	875	P29	1	1	1	1	7	㉙	10'-0"	11'-0"	11'-0"	875	875	875	875	P29	1	1	1	1
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P39	1	1	1	1	7	㊴	10'-0"	11'-0"	11'-0"	875	875	875	875	P39	1	1	1	1	7	㊴	10'-0"	11'-0"	11'-0"	875	875	875	875	P39	1	1	1	1
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P42	1	1	1	1	7	㊷	10'-0"	11'-0"	11'-0"	875	875	875	875	P42	1	1	1	1	7	㊷	10'-0"	11'-0"	11'-0"	875	875	875	875	P42	1	1	1	1
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P46	1	1	1	1	7	㊻	10'-0"	11'-0"	11'-0"	875	875	875	875	P46	1	1	1	1	7	㊻	10'-0"	11'-0"	11'-0"	875	875	875	875	P46	1	1	1	1
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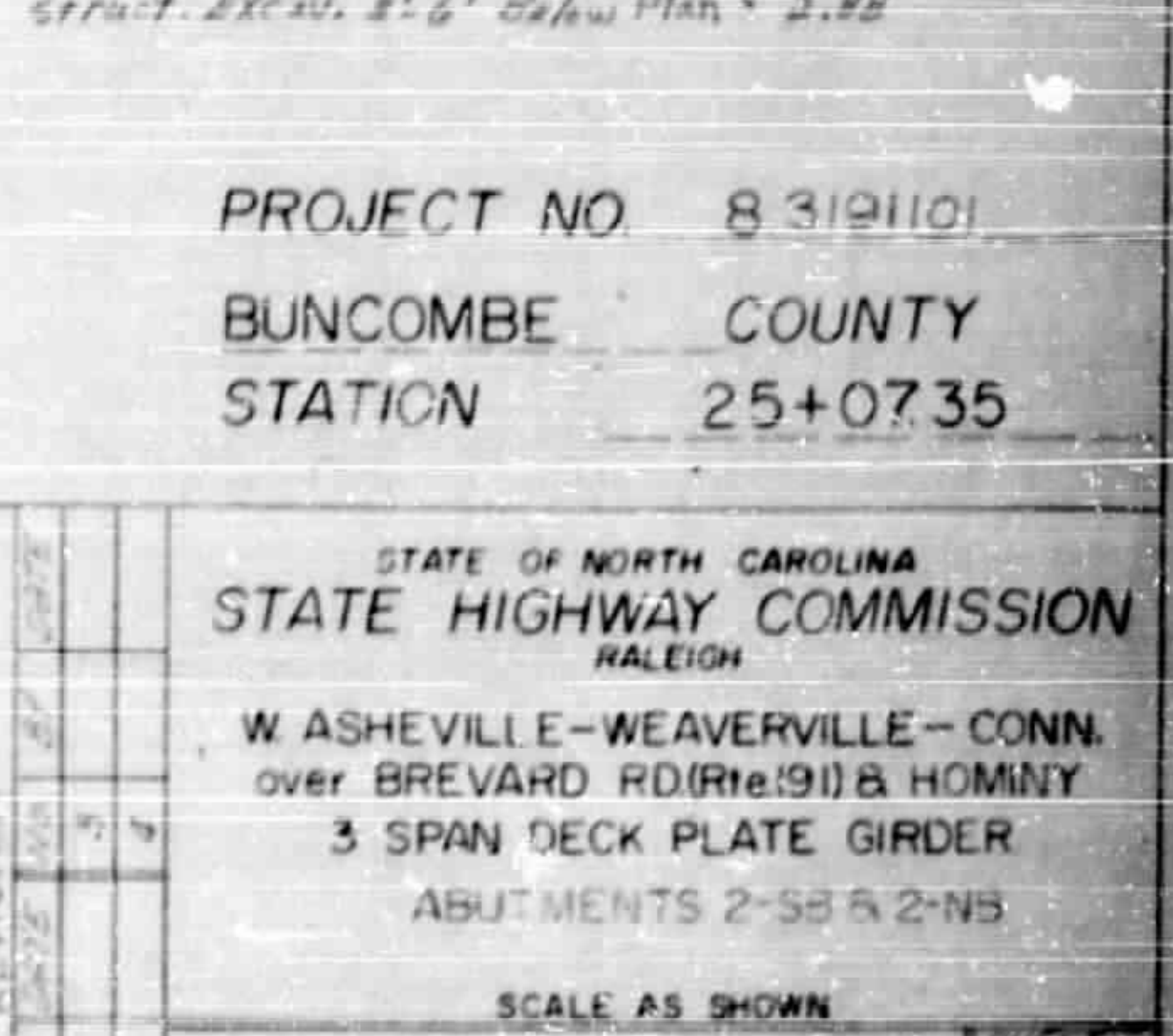
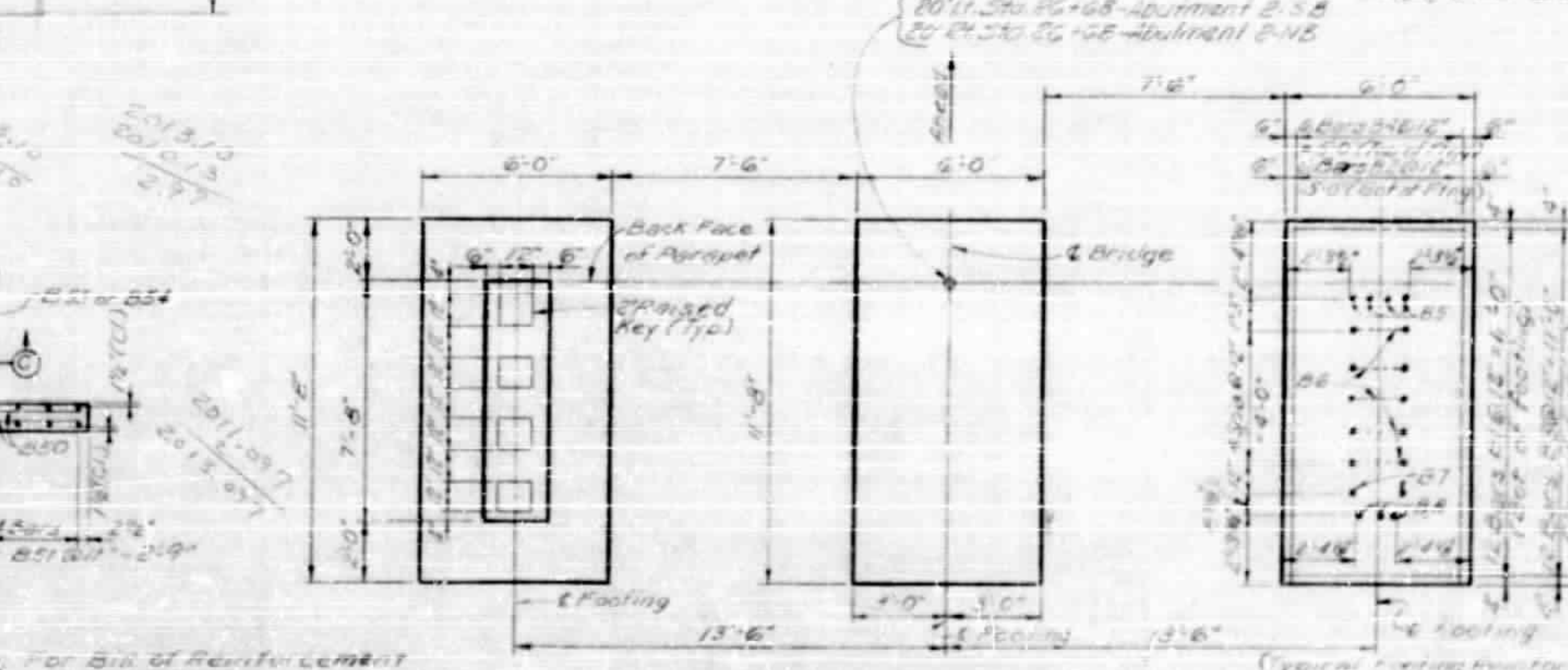
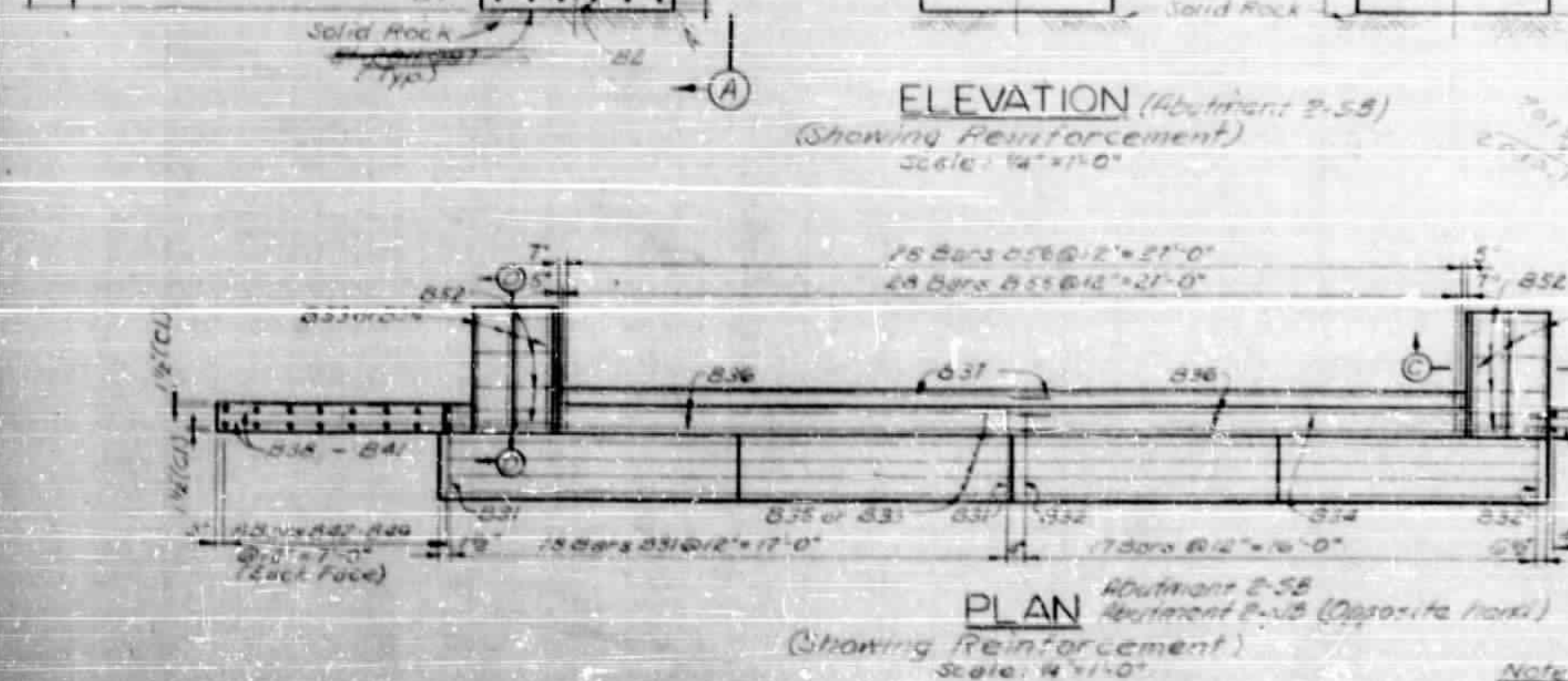
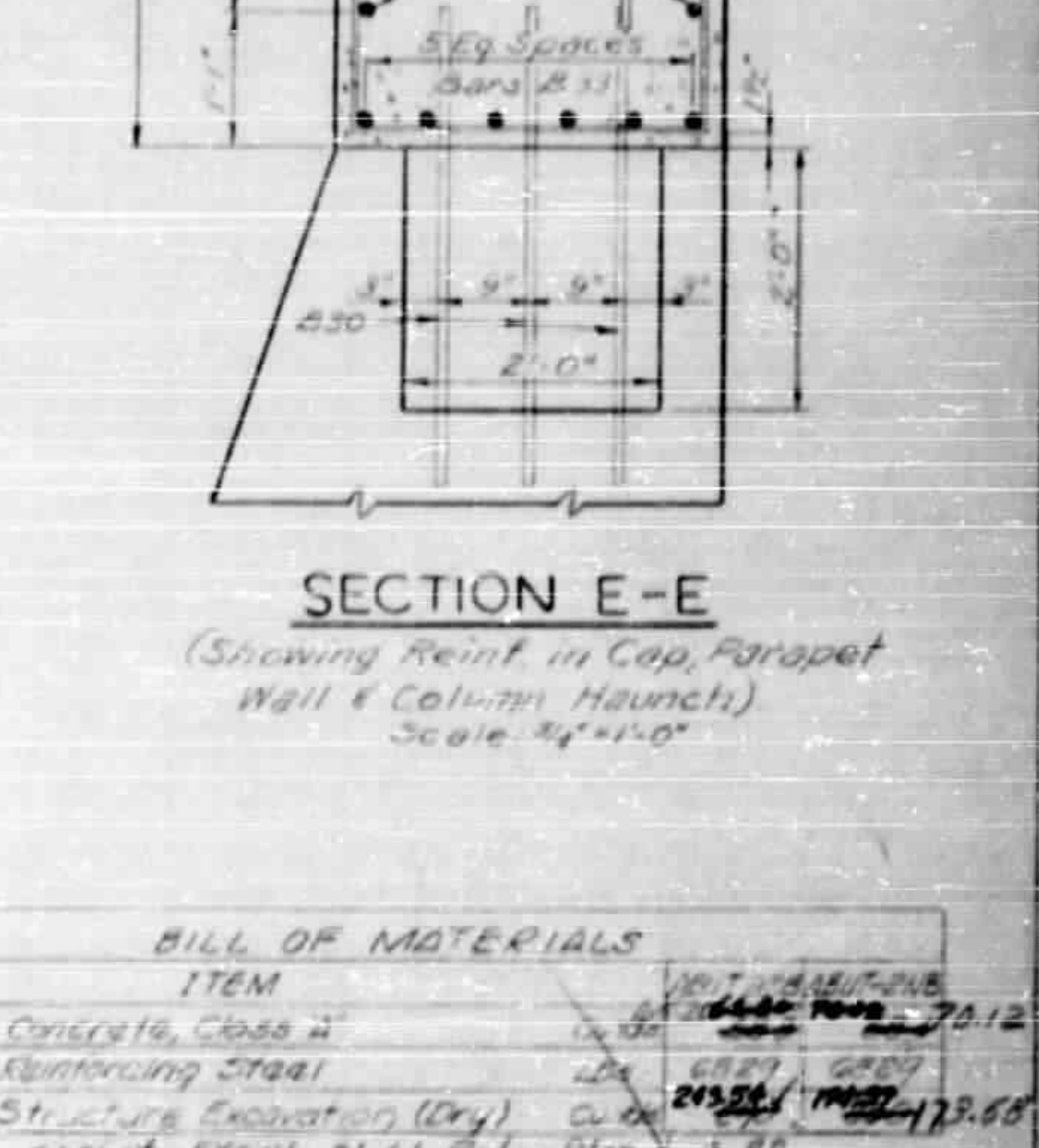
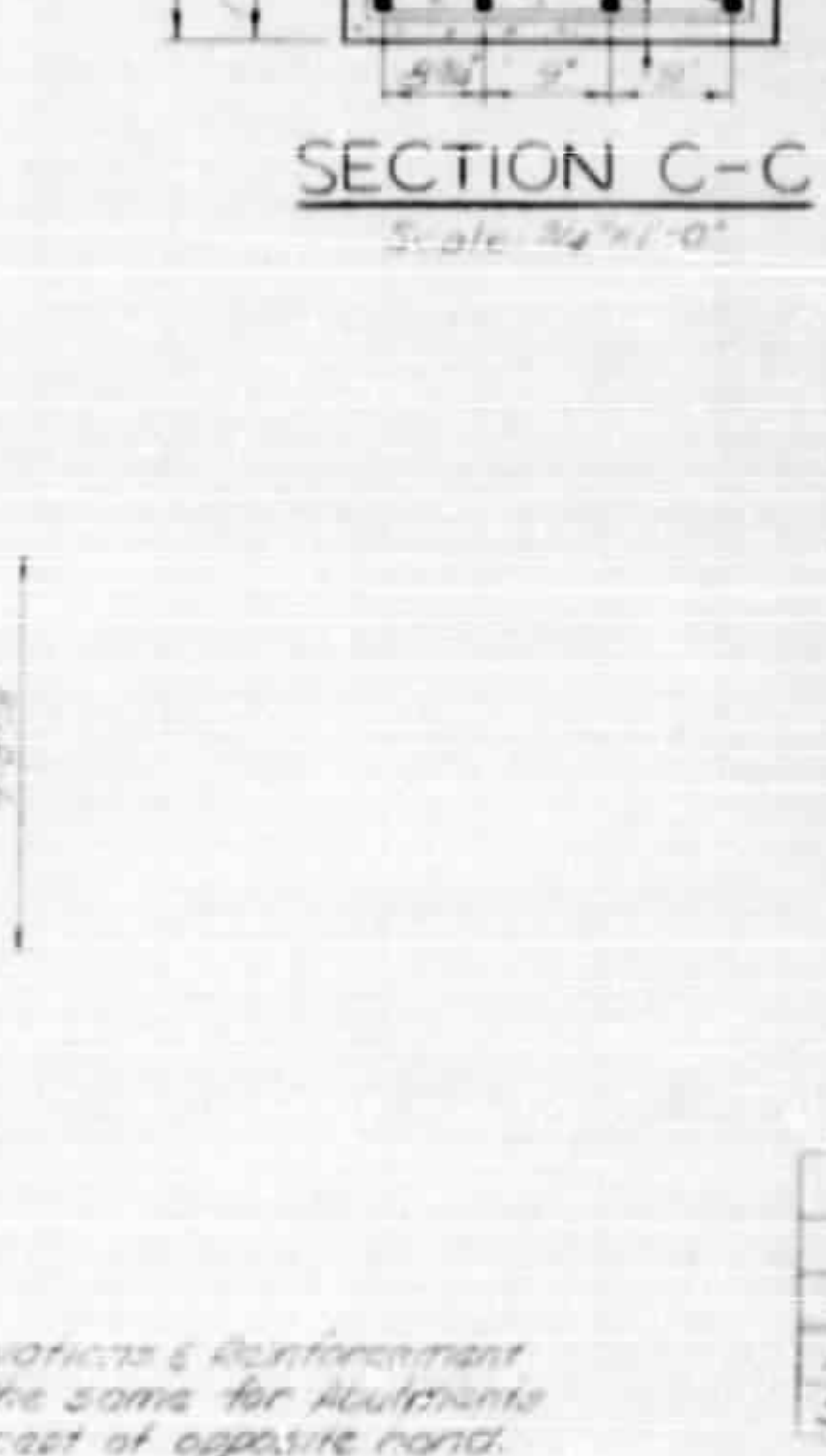
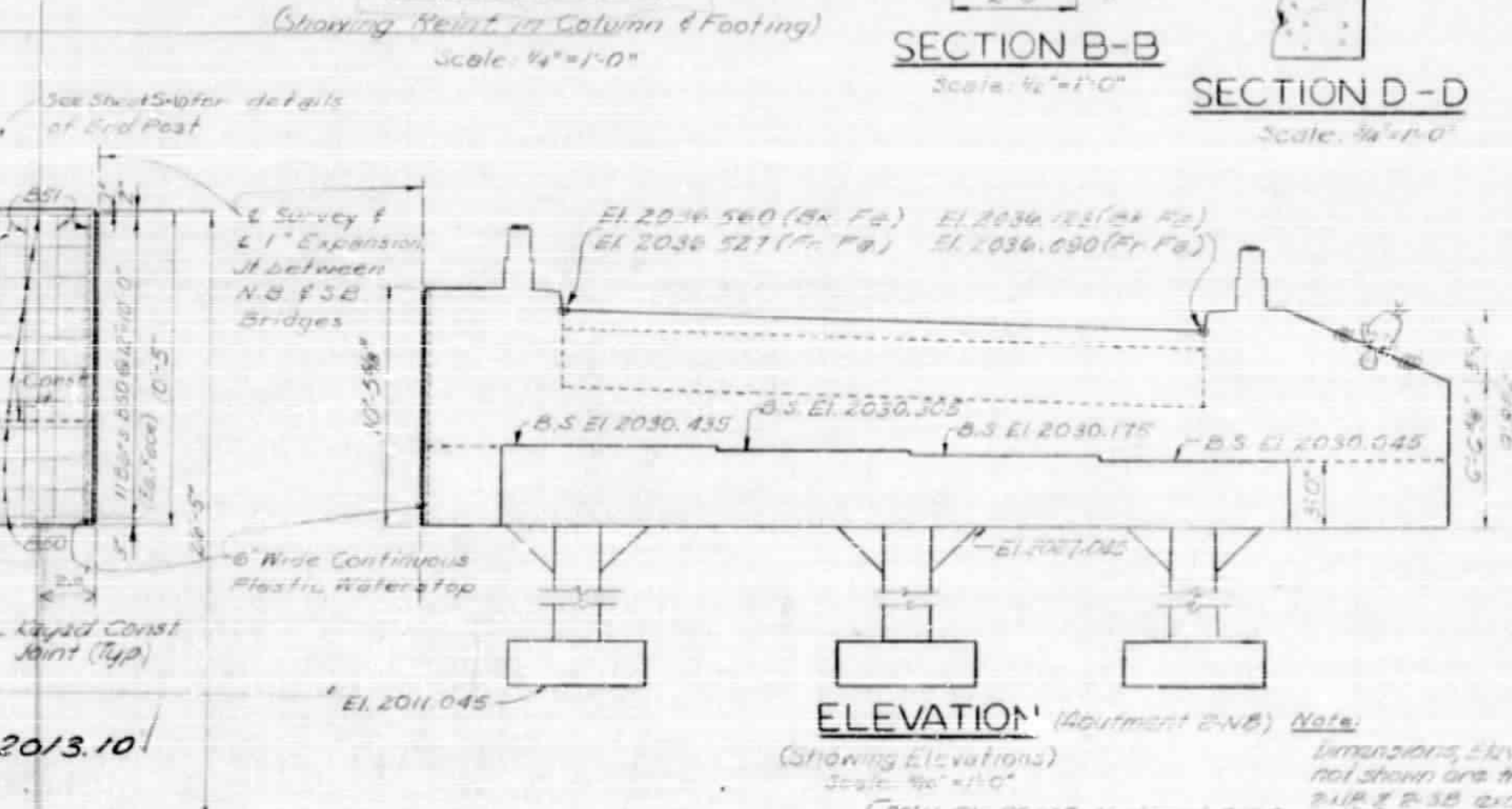
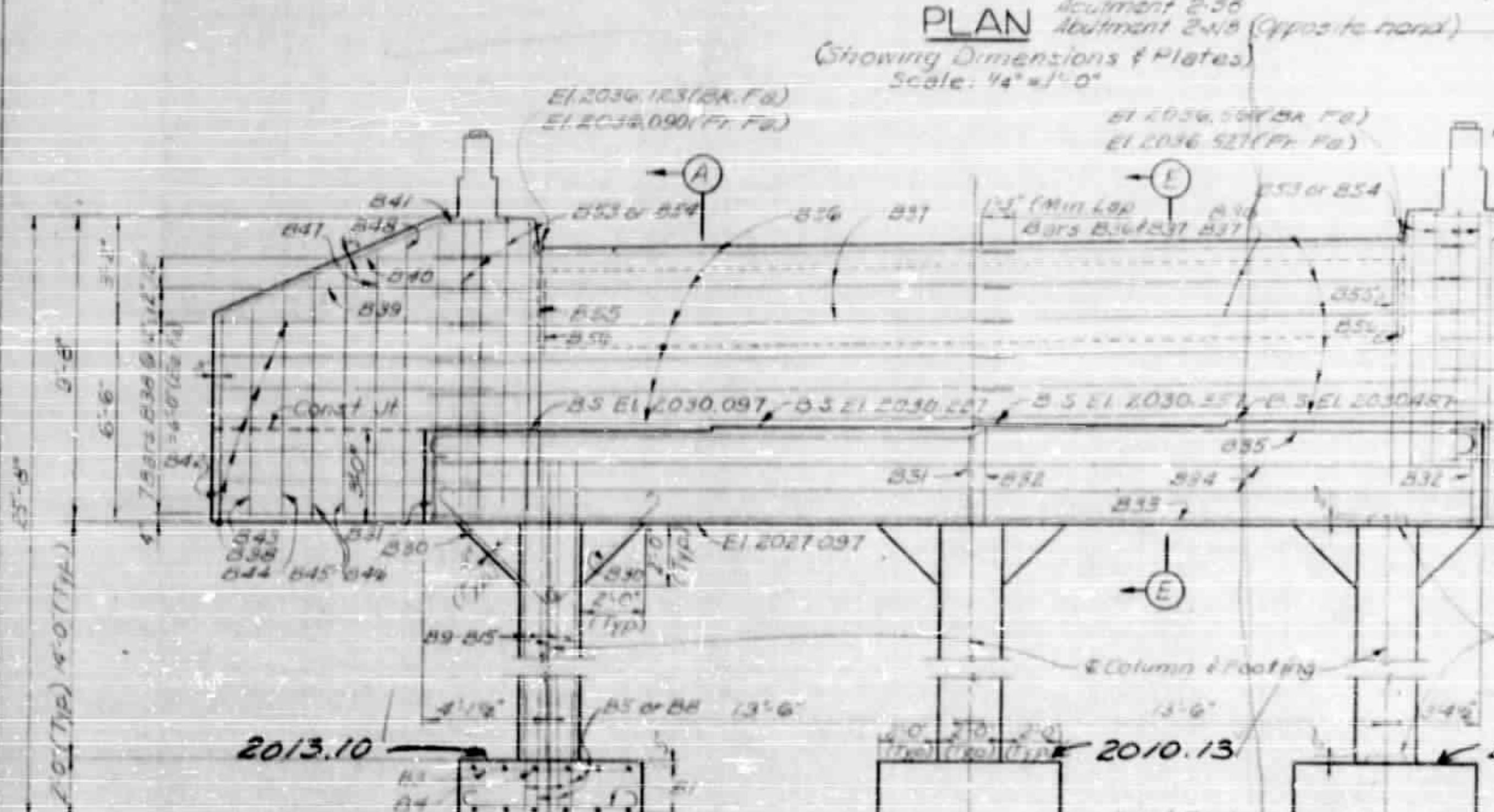
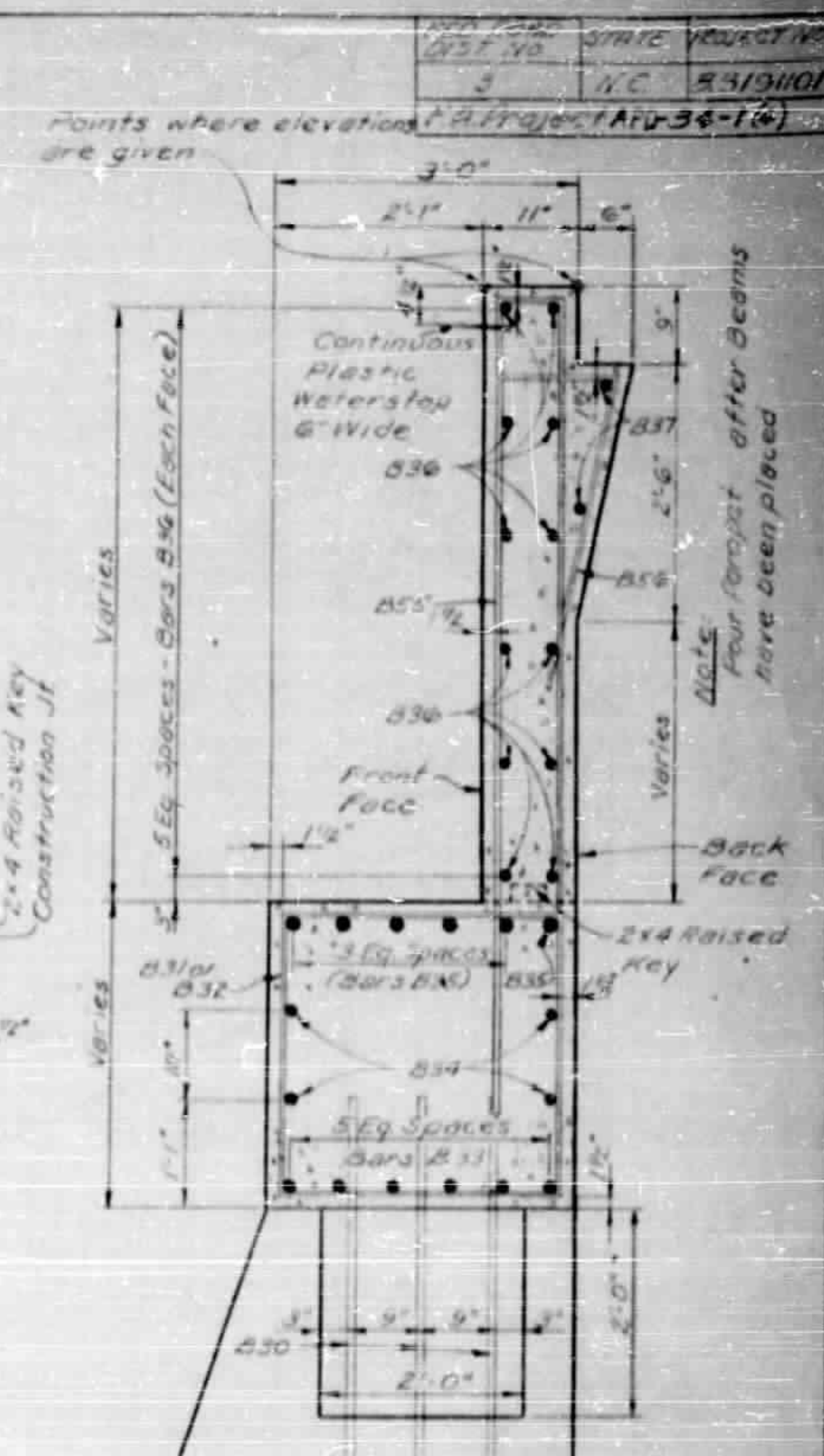
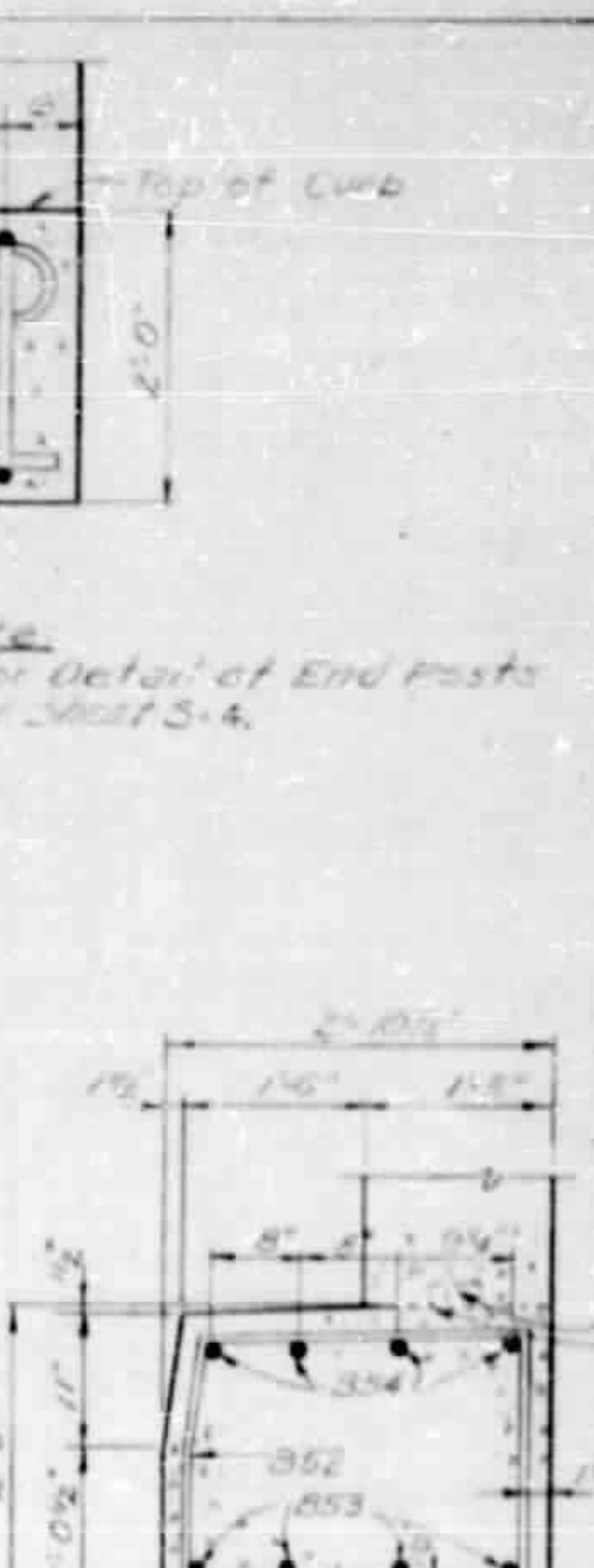
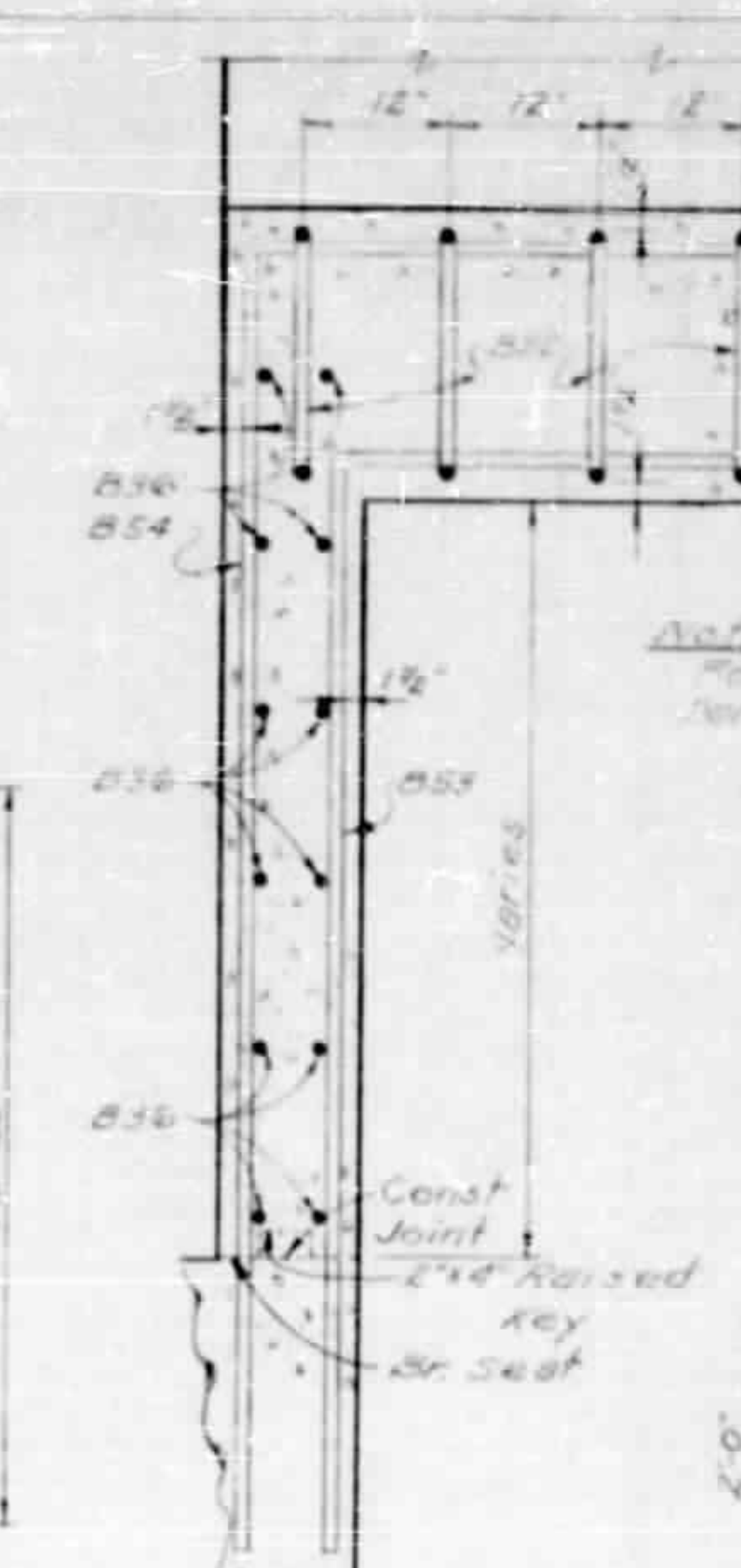
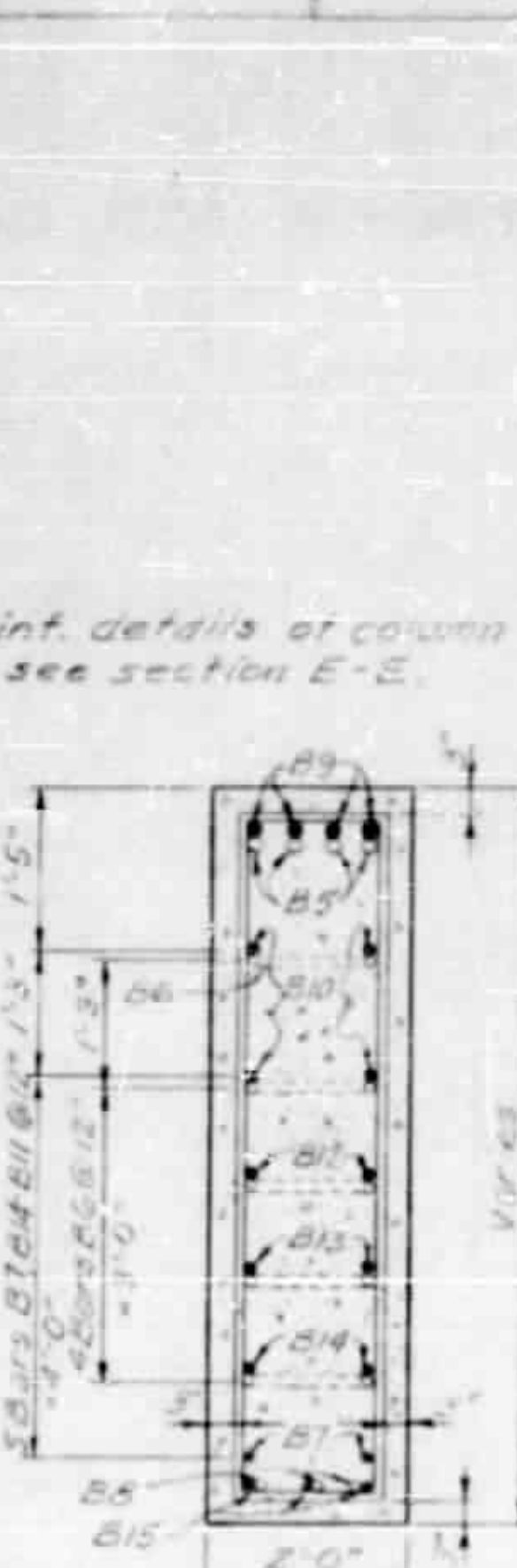
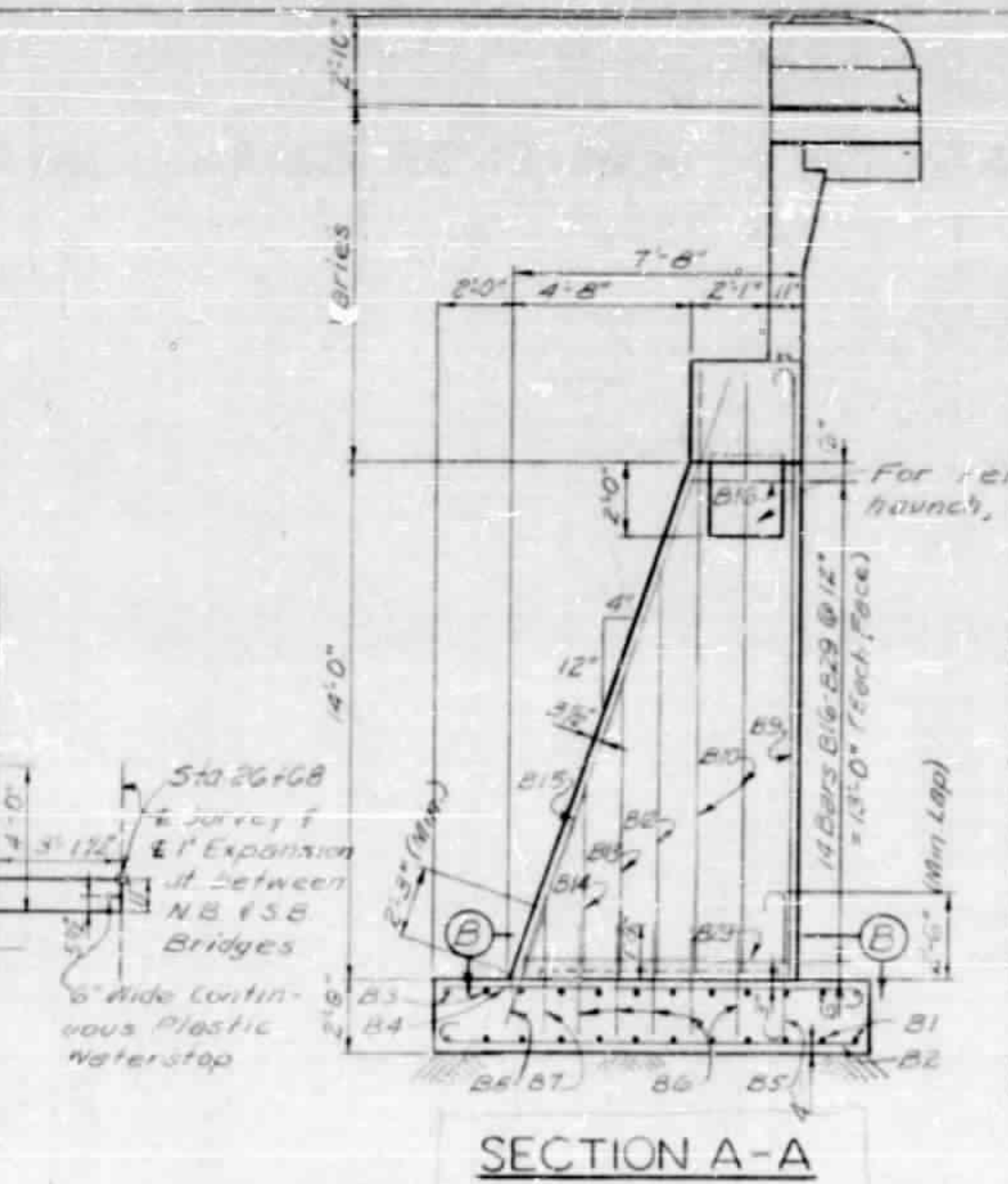
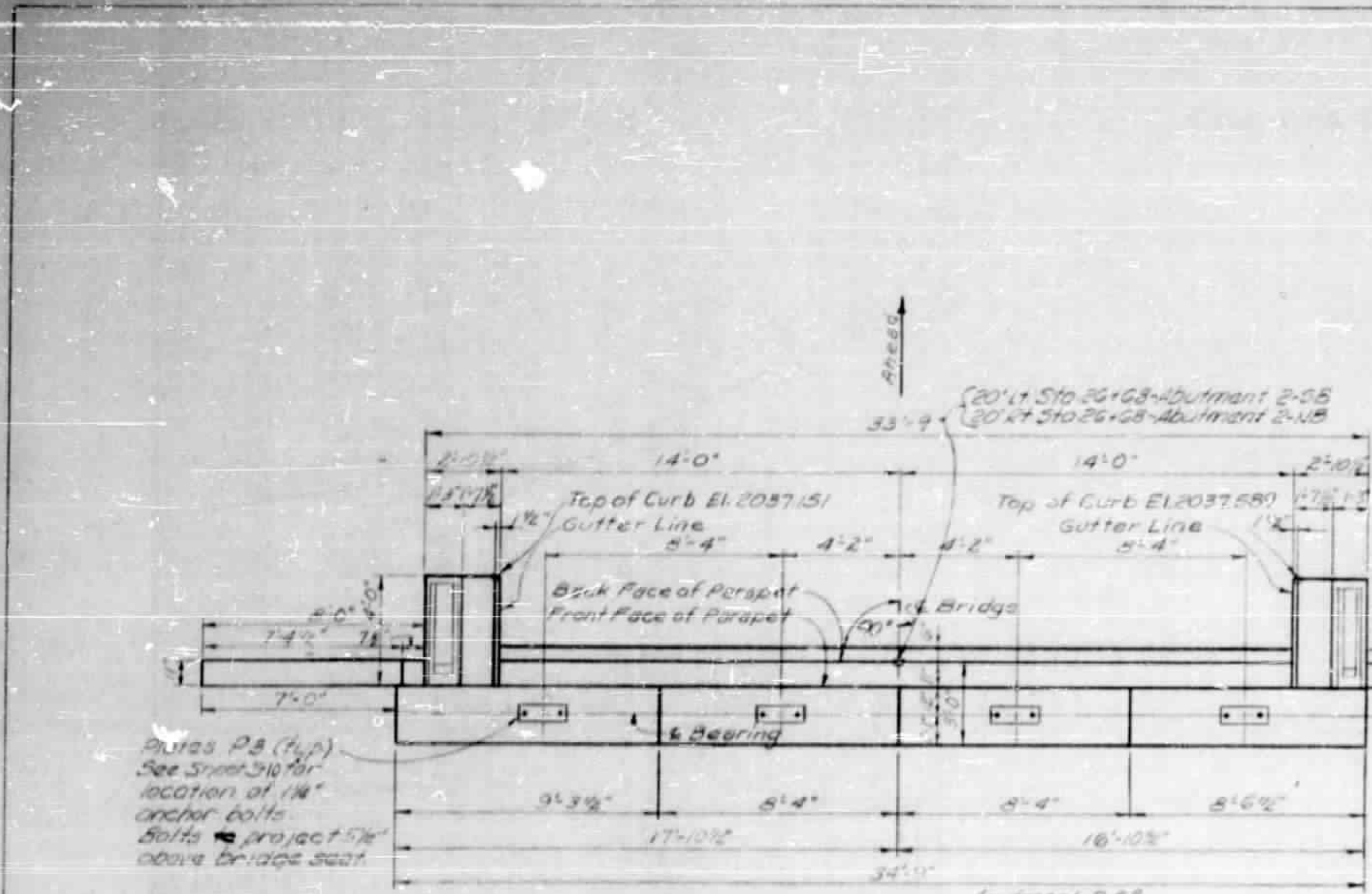
PROJECT NO. 8319101
BUNCOMBE COUNTY
STATION 25+07.35

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
W. ASHEVILLE-WEAVERVILLE-CONN.
over BREVARD RD(Rte191) & HOMINY
3 SPAN DECK PLATE GIRDER
PIERS

SCALE AS SHOWN

S-4

110



BILL OF MATERIALS

ITEM	QUANTITY	UNIT	PRICE	TOTAL
Concrete, Class II	1,234.56	CU YD	12.50	15,432.00
Reinforcing Steel	12,345.67	LB	0.15	1,851.85
Structure Excavation (Dry)	1,234.56	CU YD	1.50	1,851.85
Struct. Excav. 2'-6" Below Plan	1,234.56	CU YD	1.50	1,851.85

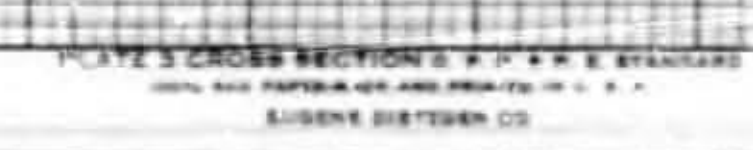
PROJECT NO. 83191101
BUNCOMBE COUNTY
STATION 25+0735

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
W ASHEVILLE-WEAVERVILLE-CONN.
OVER BREVARD RD (Rte. 91) & HONINY
3 SPAN DECK PLATE GIRDER
ABUTMENTS 2-SB & 2-NB
SCALE AS SHOWN

S-11
110

Approximate 002 50 (002°)

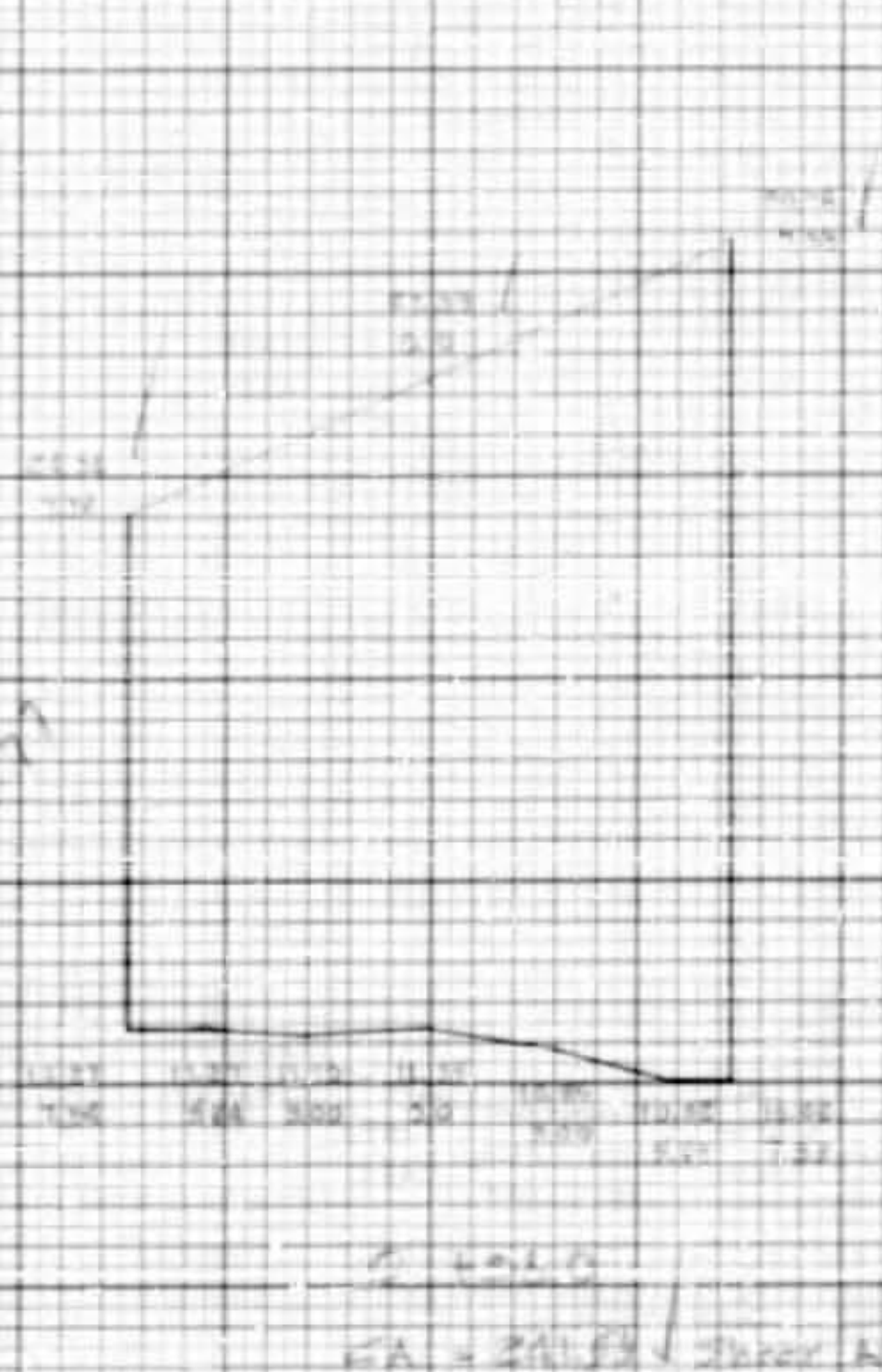
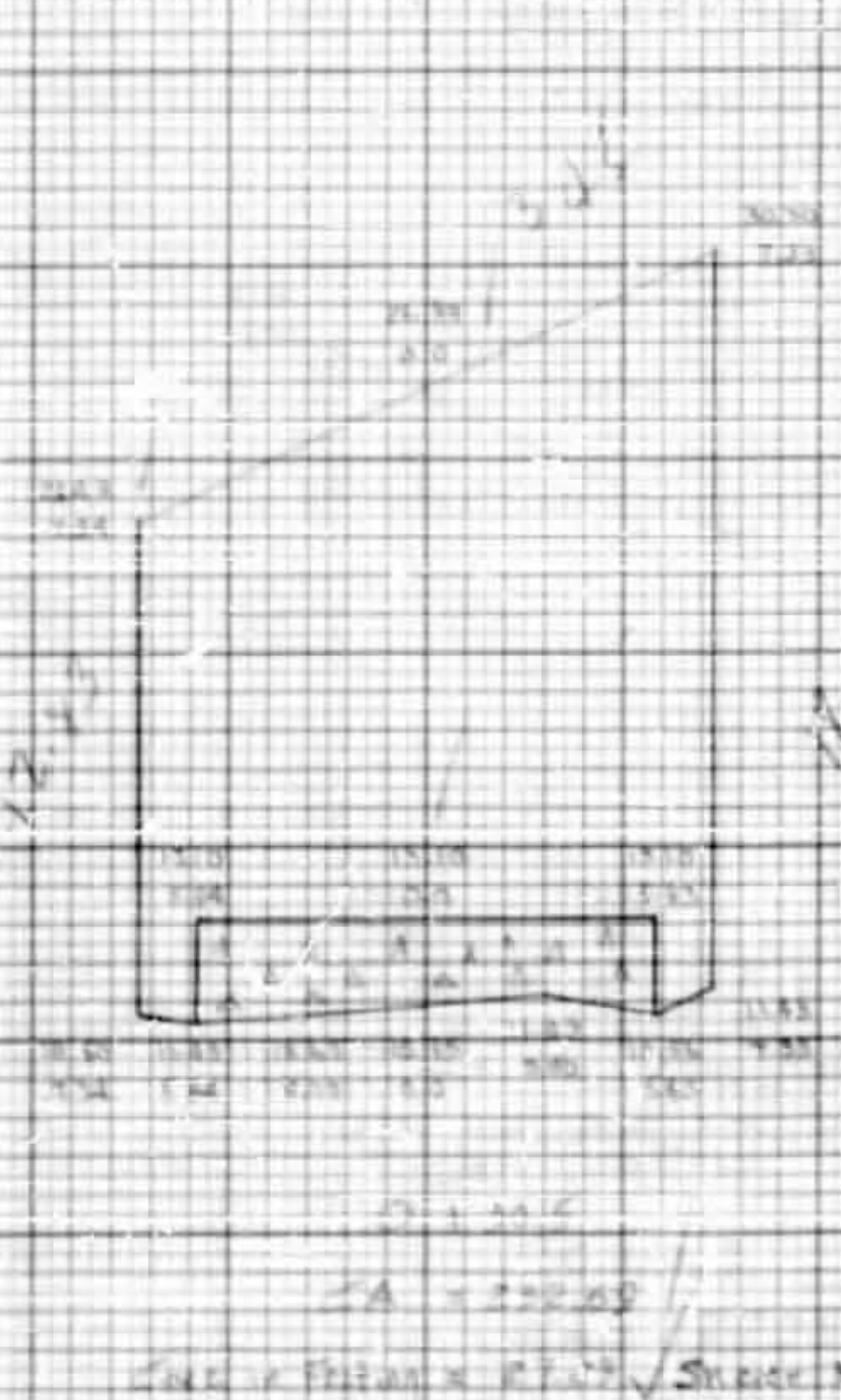
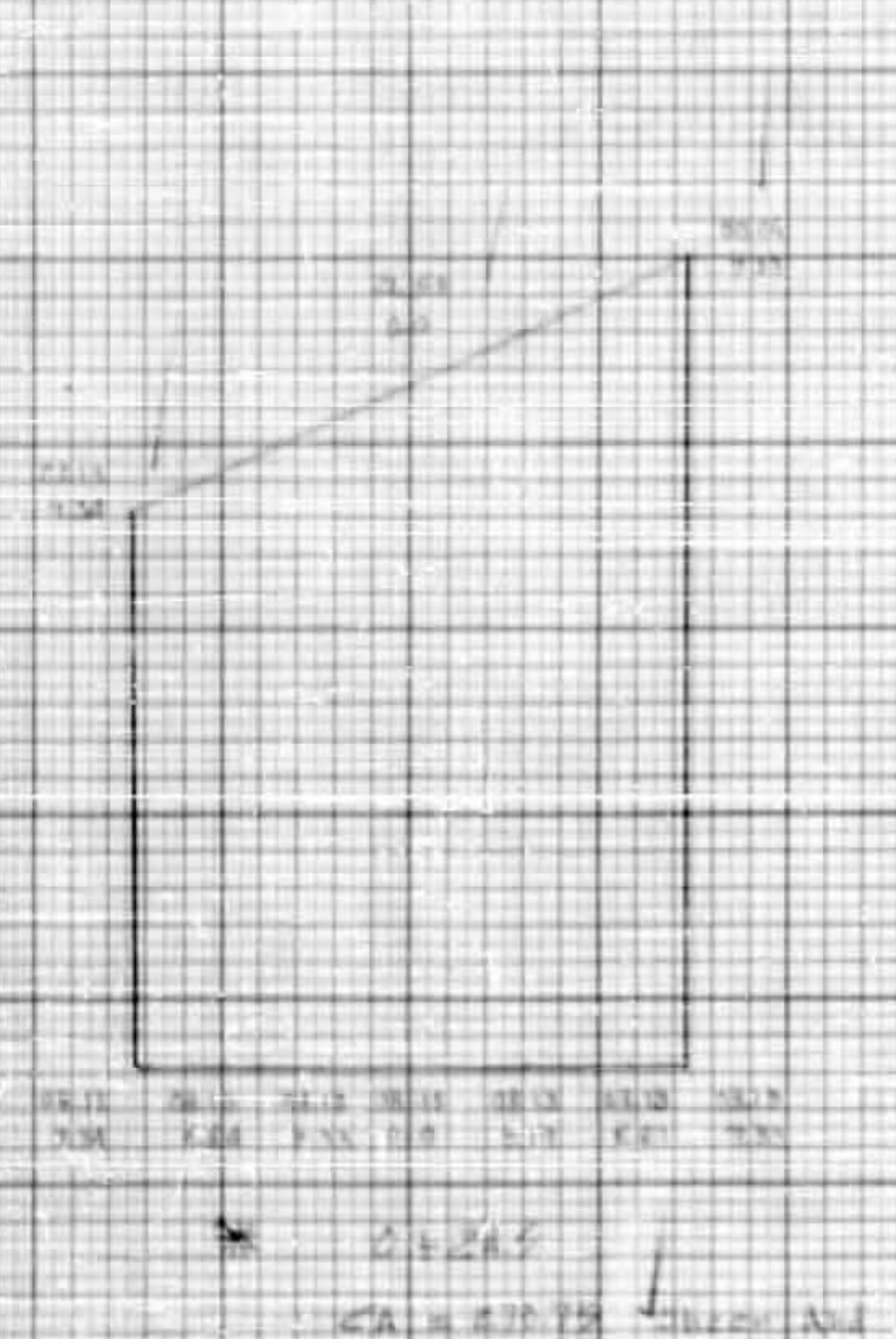
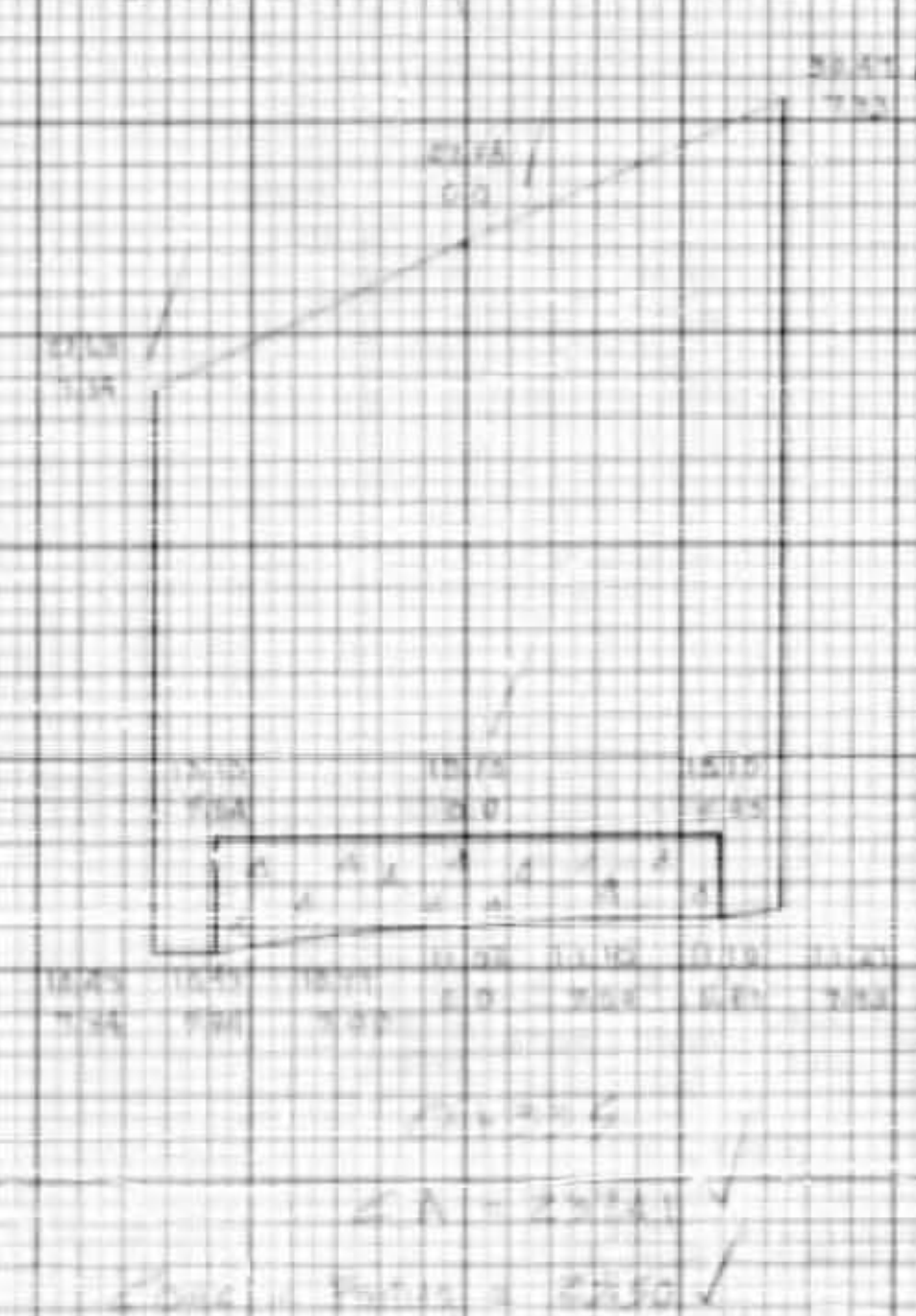
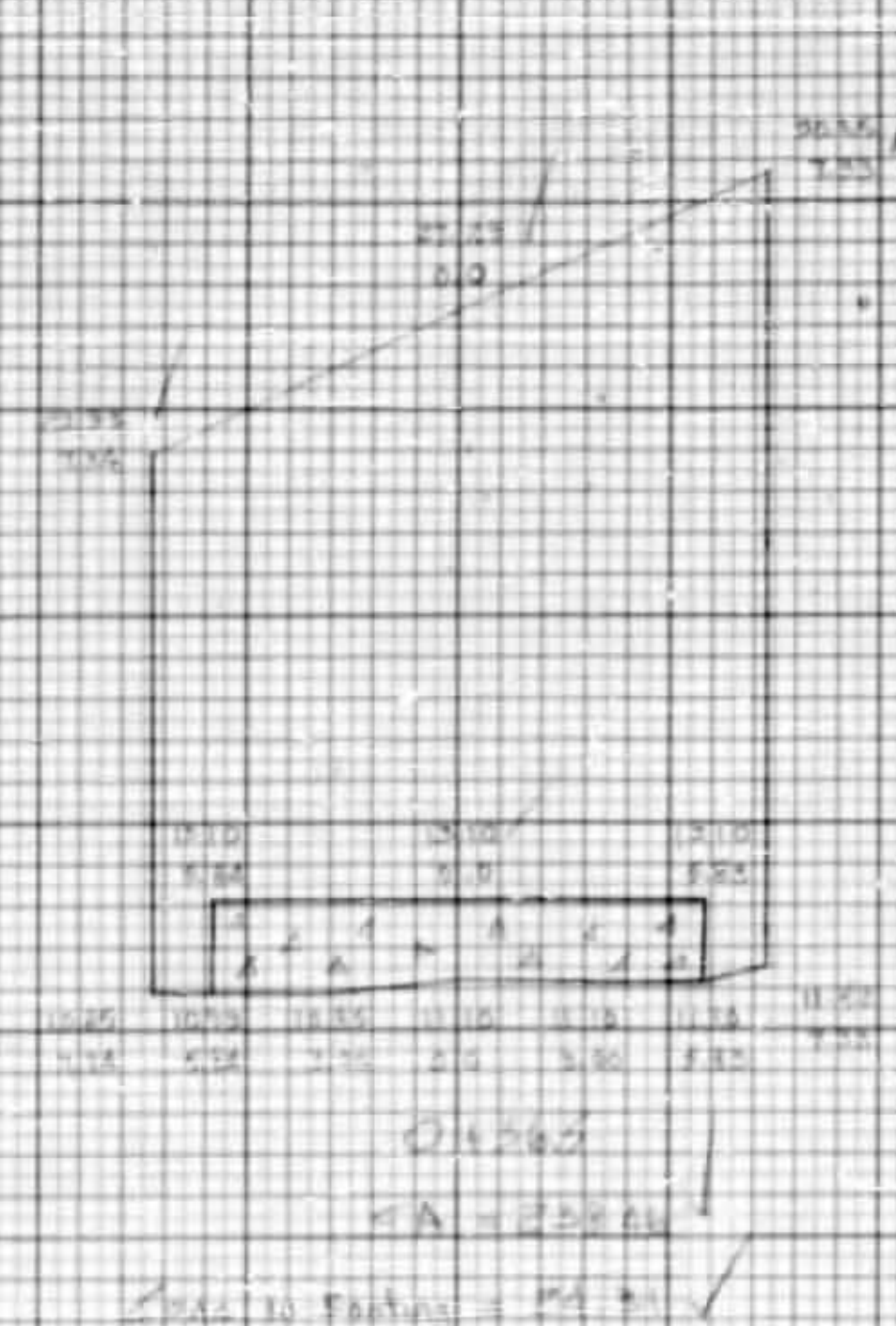
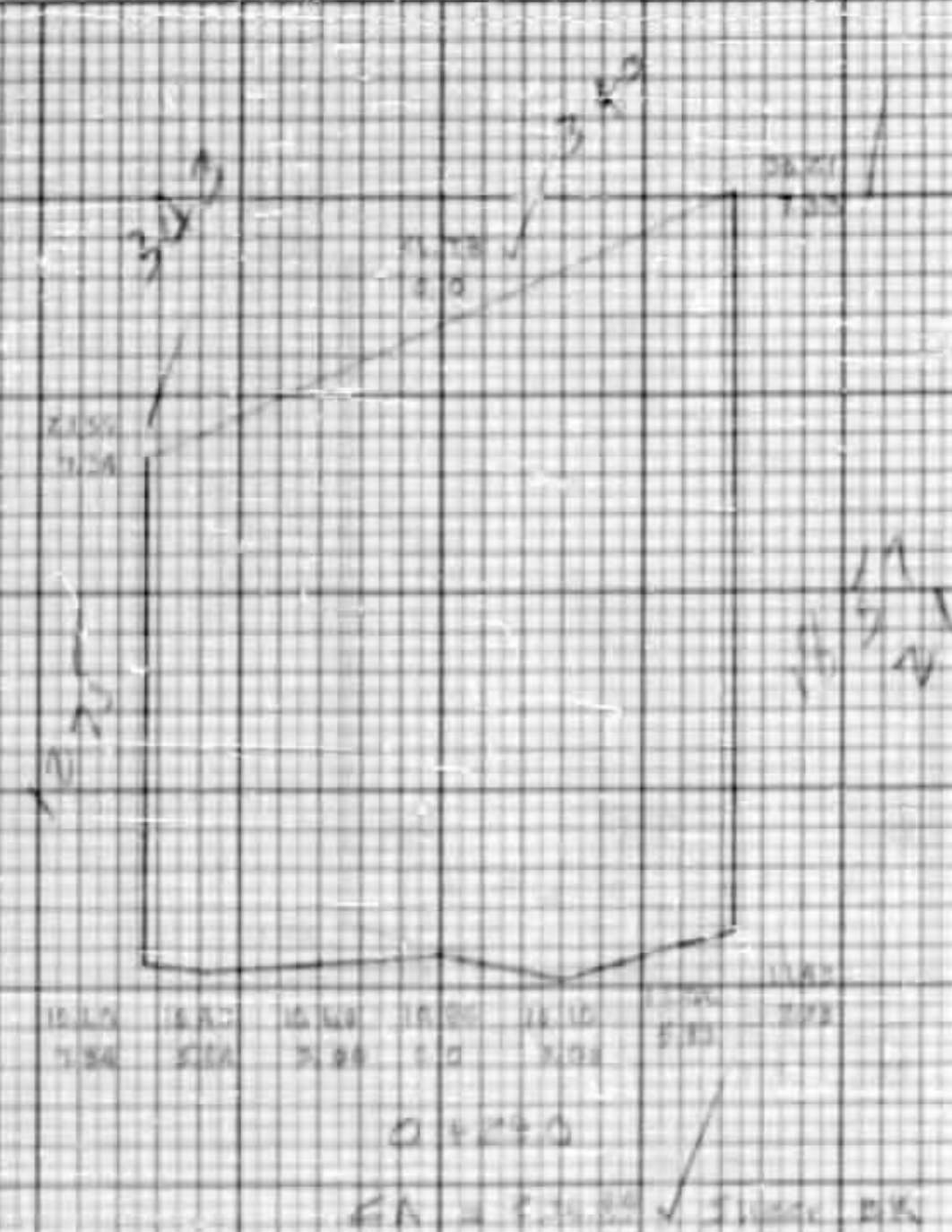
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	8.3191101	S-12	110
F.A. PROJ. NO. APD-34-1(A)			



08 9-10-68 2PM
Placed 2 Cans by A.O.G. 3-21-68

ABUTMENT NO 2 SB (CONT'D)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NO.	8.319/101	S-13	110
P. O. EMBLJ. NO. APD-34-1(4)			

[illegible]

SFF BOOK 5-2 P-21 ORIG X-SFF
SFF BOOK 5-2 P-23-24 FINAL X-SFF

APU-88-1(2)

SUMMARY OF QUANTITIES

Exp. Excavation	64.40	Exp. N. Excavation	54.90	
Drill No. 1	270.20 ✓	Drill No. 1	Blind Quantity	15.80 ✓
	522.20 ✓		Blind Pipe Quantity in Trench	21.20 ✓
Drill No. 2	293.54 ✓		Pipe Reamed Quantity in Trench	23.50 ✓
			Total	57.50 ✓
Drill No. 2	293.54 ✓			
Total	600.55	626.23		
Exp. Excavation	64.40			
Drill No. 1	270.20 ✓			
Drill No. 2	293.54 ✓			
Total	600.55	626.23		
Exp. Excavation	64.40			
Drill No. 1	270.20 ✓			
Drill No. 2	293.54 ✓			
Total	600.55	626.23		
Exp. Excavation	64.40			
Drill No. 1	270.20 ✓			
Drill No. 2	293.54 ✓			
Total	600.55	626.23		

Exp. Excavation	64.40	Exp. N. Excavation	54.90	
Drill No. 1	270.20 ✓	Drill No. 1	Blind Quantity	15.80 ✓
	522.20 ✓		Blind Pipe Quantity in Trench	21.20 ✓
Drill No. 2	293.54 ✓		Pipe Reamed Quantity in Trench	23.50 ✓
			Total	57.50 ✓
Drill No. 2	293.54 ✓			
Total	600.55	626.23		

Exp. Excavation	64.40	Exp. N. Excavation	54.90	
Drill No. 1	270.20 ✓	Drill No. 1	Blind Quantity	15.80 ✓
	522.20 ✓		Blind Pipe Quantity in Trench	21.20 ✓
Drill No. 2	293.54 ✓		Pipe Reamed Quantity in Trench	23.50 ✓
			Total	57.50 ✓
Drill No. 2	293.54 ✓			
Total	600.55	626.23		

21 Footing			
Q 101.00	1.50	REBAR	17.00
Q 102.00	1.50	REBAR	17.00
Q 103.00	1.50	REBAR	17.00
Q 104.00	1.50	REBAR	17.00
Q 105.00	1.50	REBAR	17.00
Q 106.00	1.50	REBAR	17.00
Q 107.00	1.50	REBAR	17.00
Q 108.00	1.50	REBAR	17.00
Q 109.00	1.50	REBAR	17.00
Q 110.00	1.50	REBAR	17.00

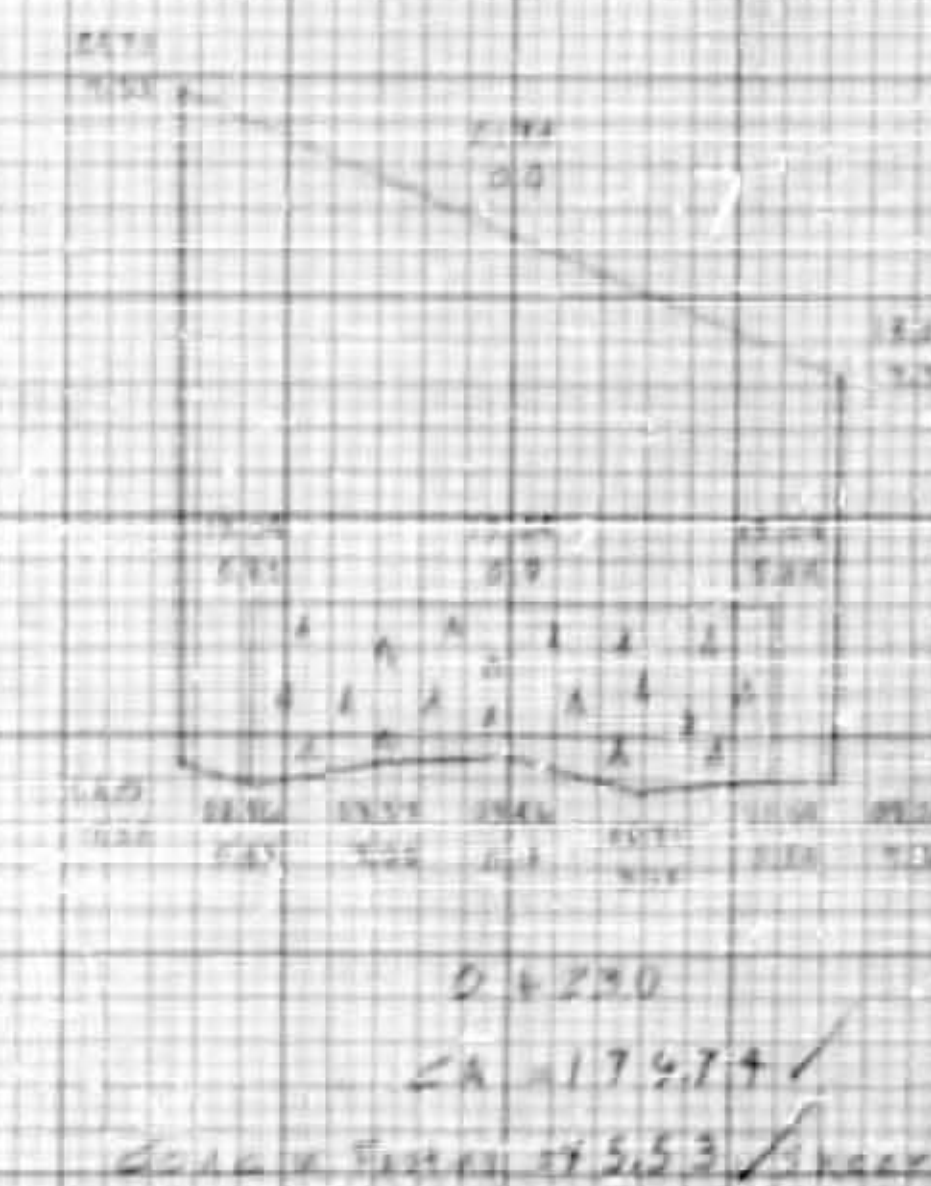
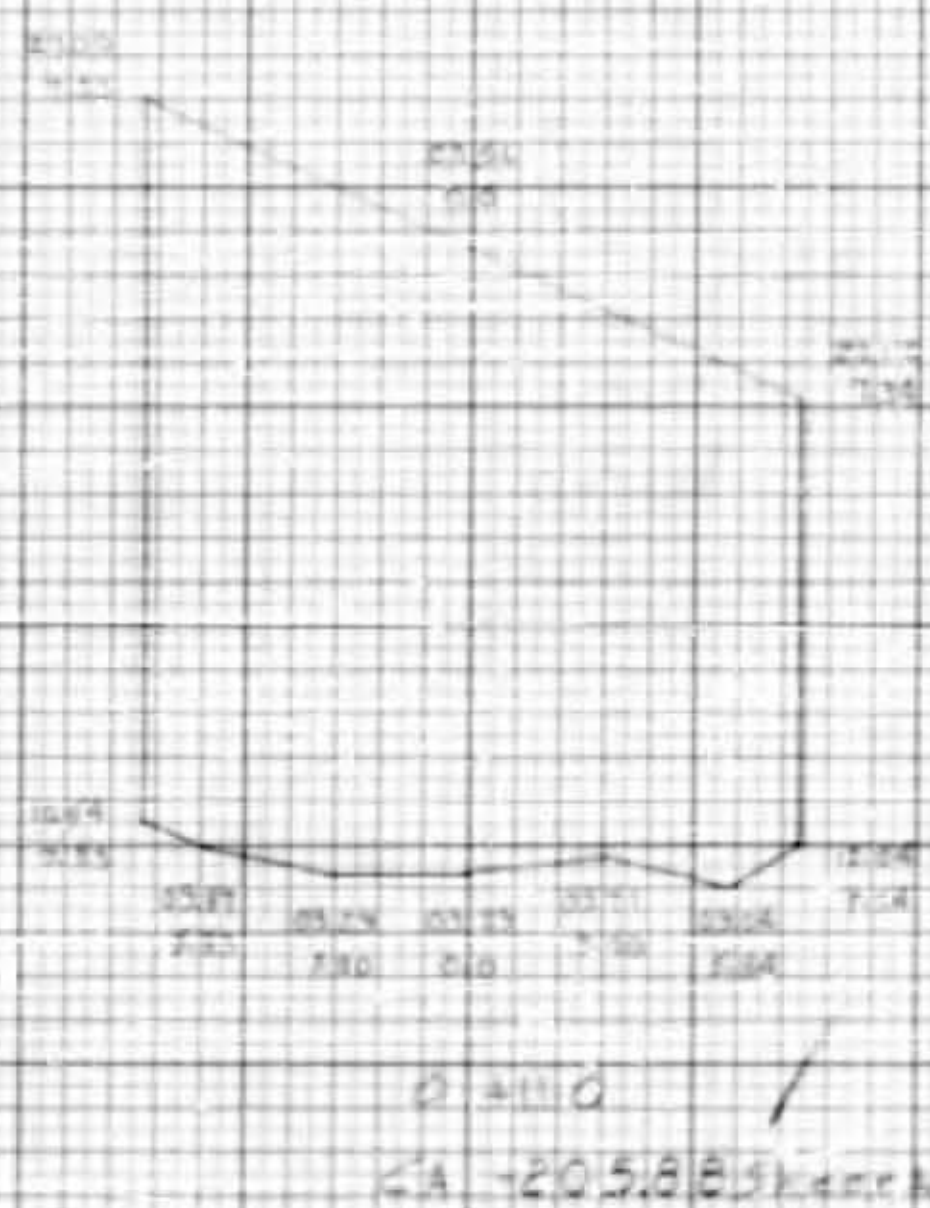
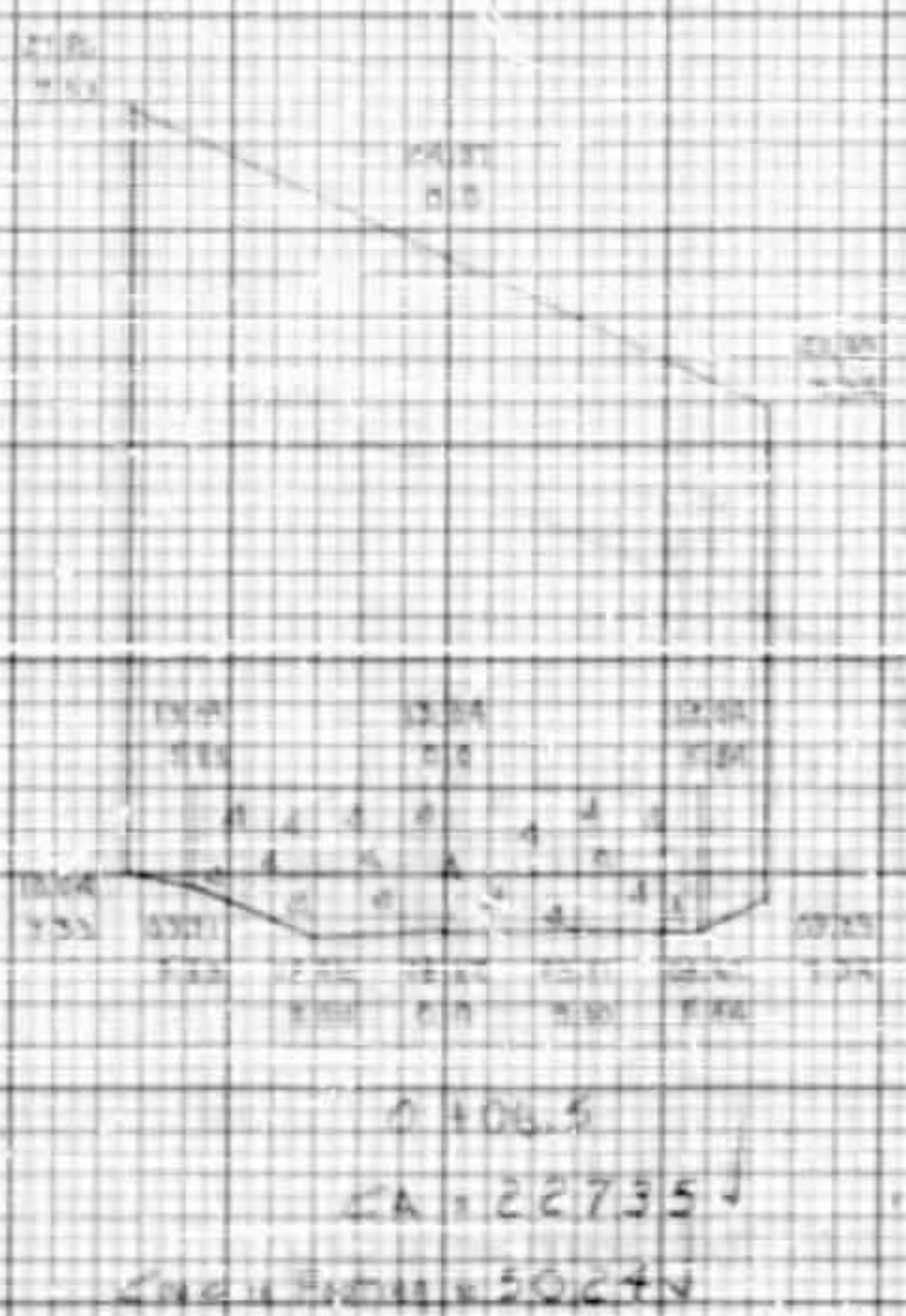
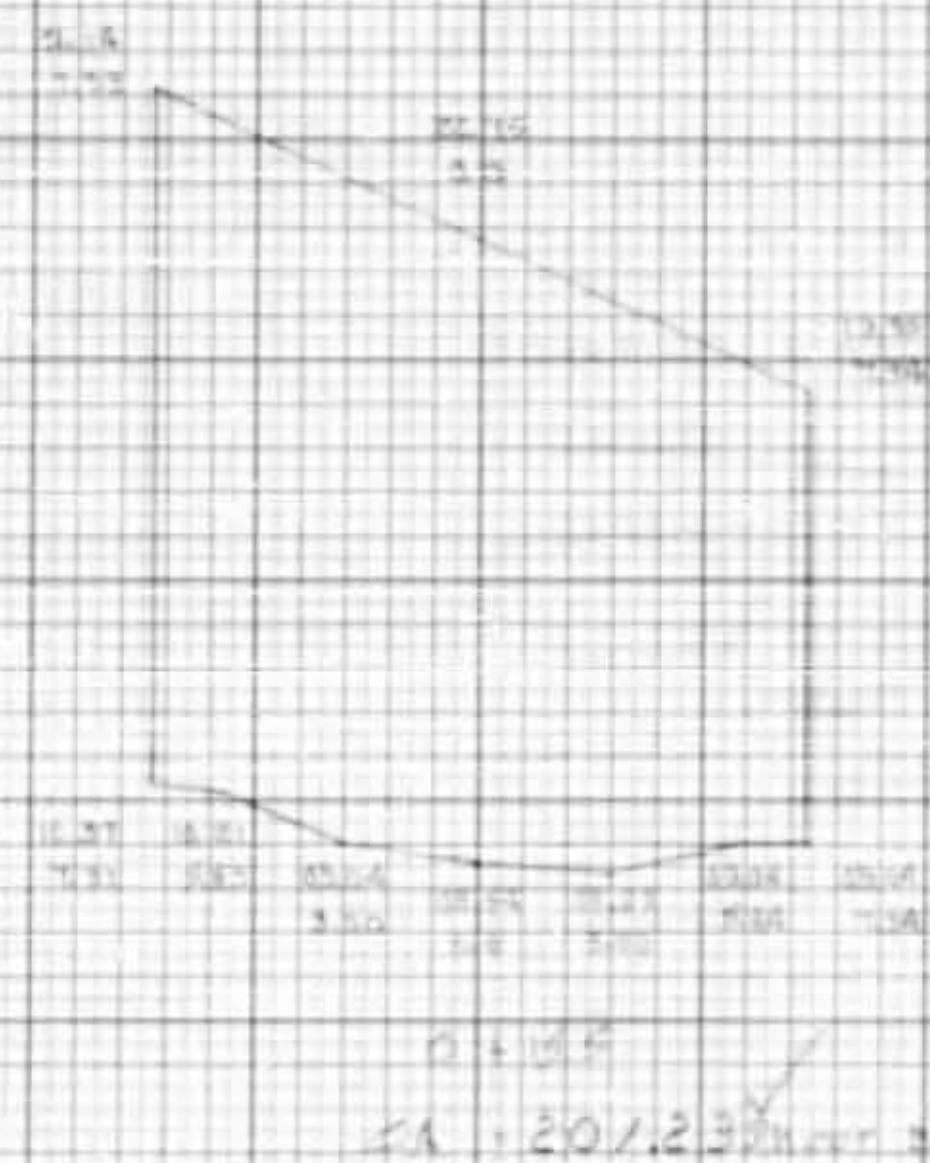
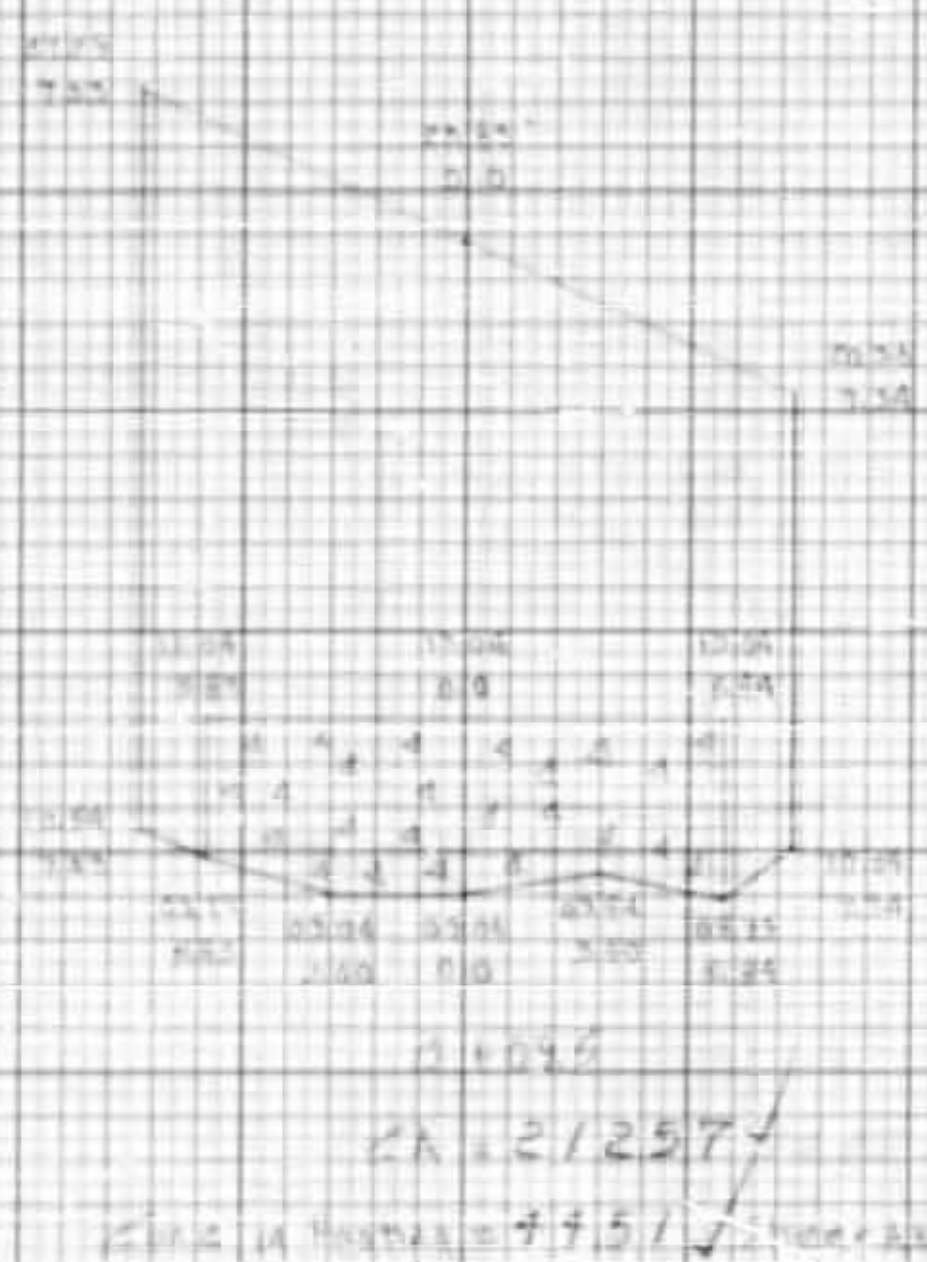
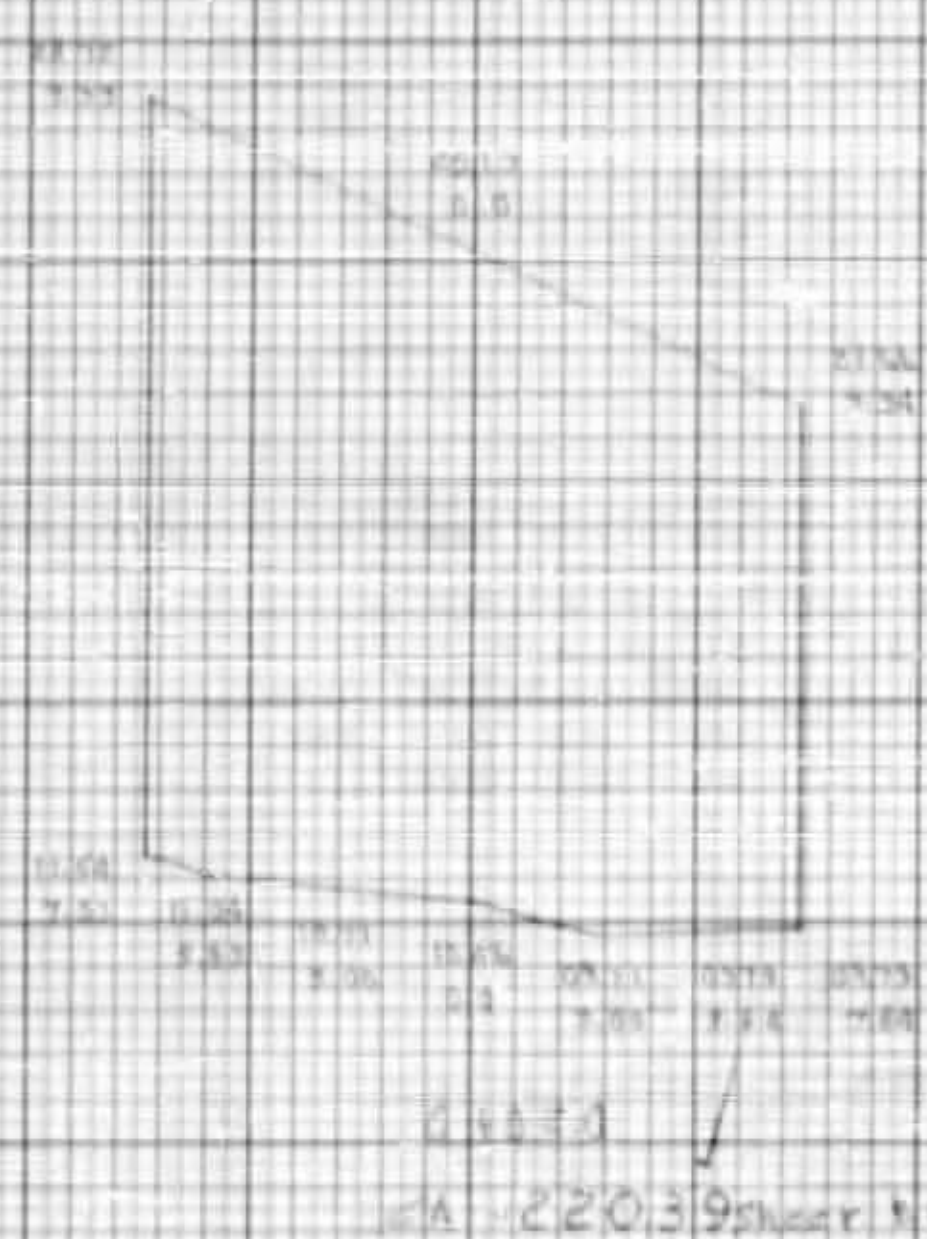
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ABUTMENT NO. 2 25+07⁵⁵ NB

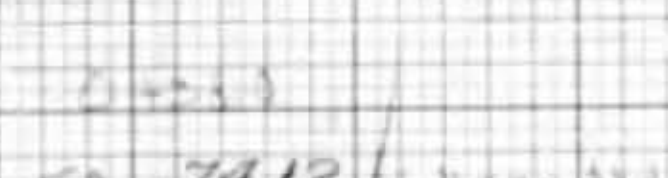
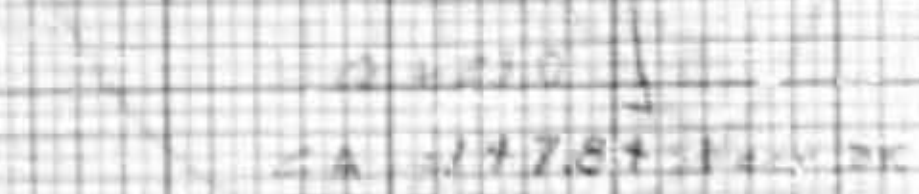
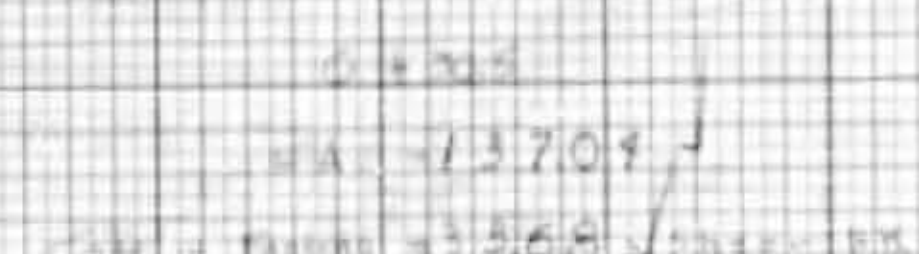
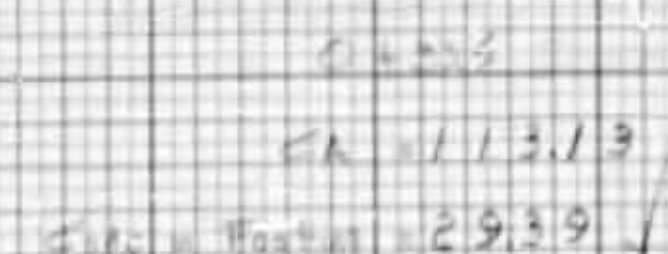
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	83091101	5-14	110
F.A. PROJ. NO. APP 34-1(4)			



SEE BOOK 5-1 P. 26-27 ORIG. X-SEC
SEE BOOK 5-1 P. 26-27 FINAL X-SEC

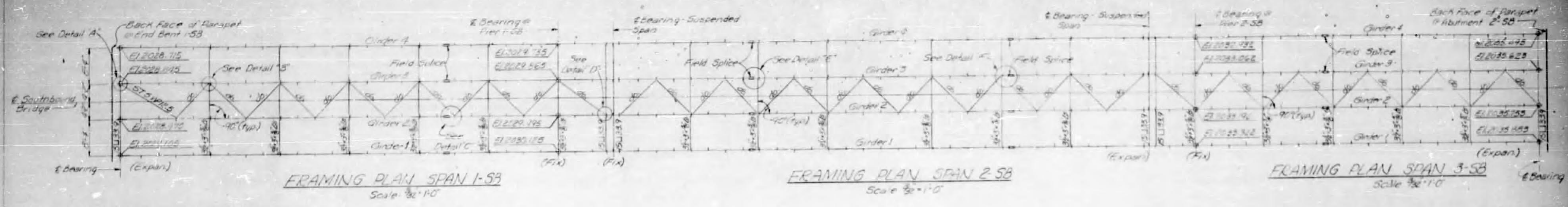


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
W. C.	83191101	S-15	110
F.A. PROJ. NO.	APD-34-1(4)		

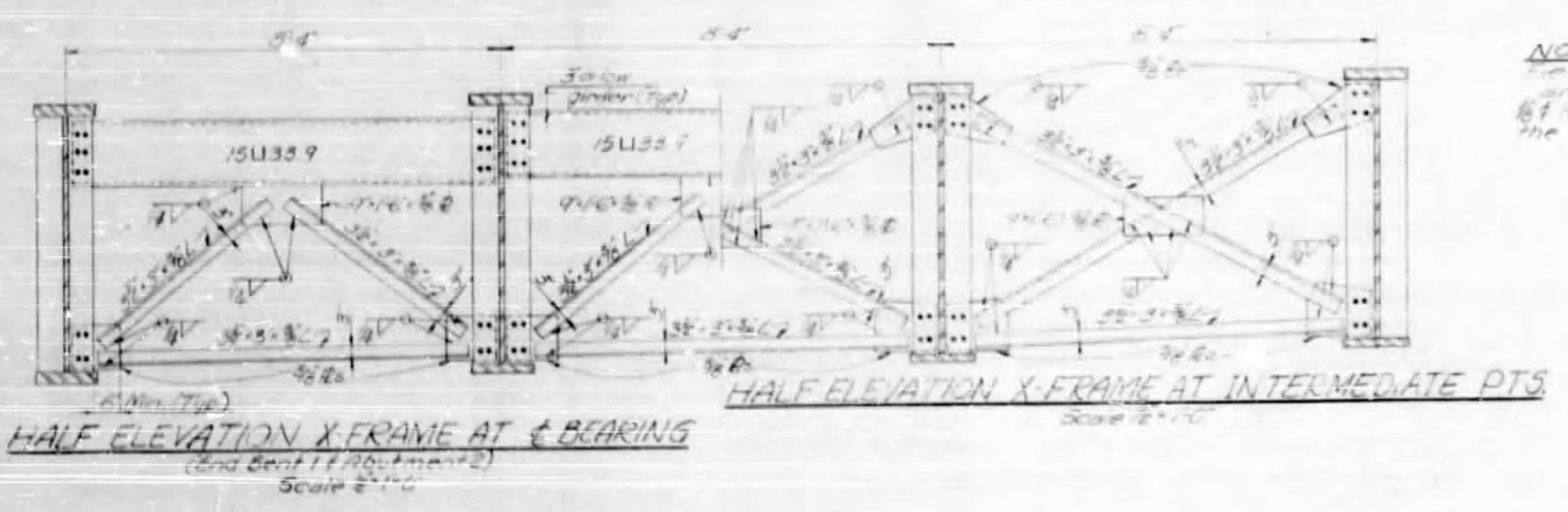
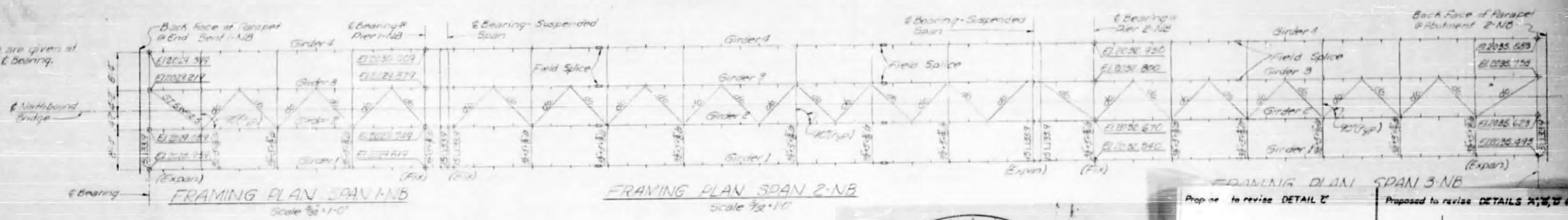


DECK FLOORING	58.50	58.10
LESS PLANK FOOTINGS	15.00	✓
FLOOR ENCL. IN FPG.	27.25	✓
TOTAL DECK BBS NB	40.00	70.12

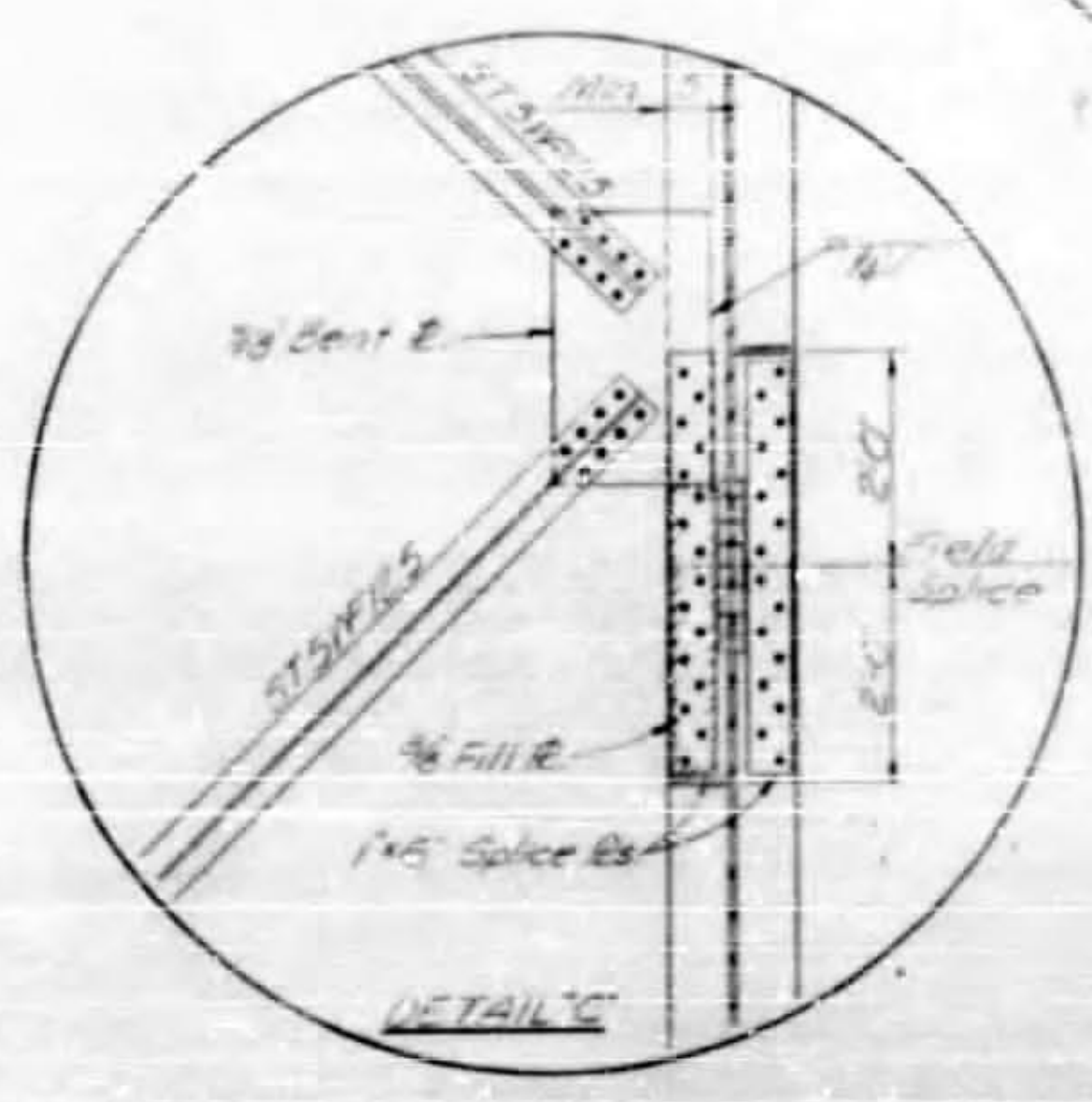
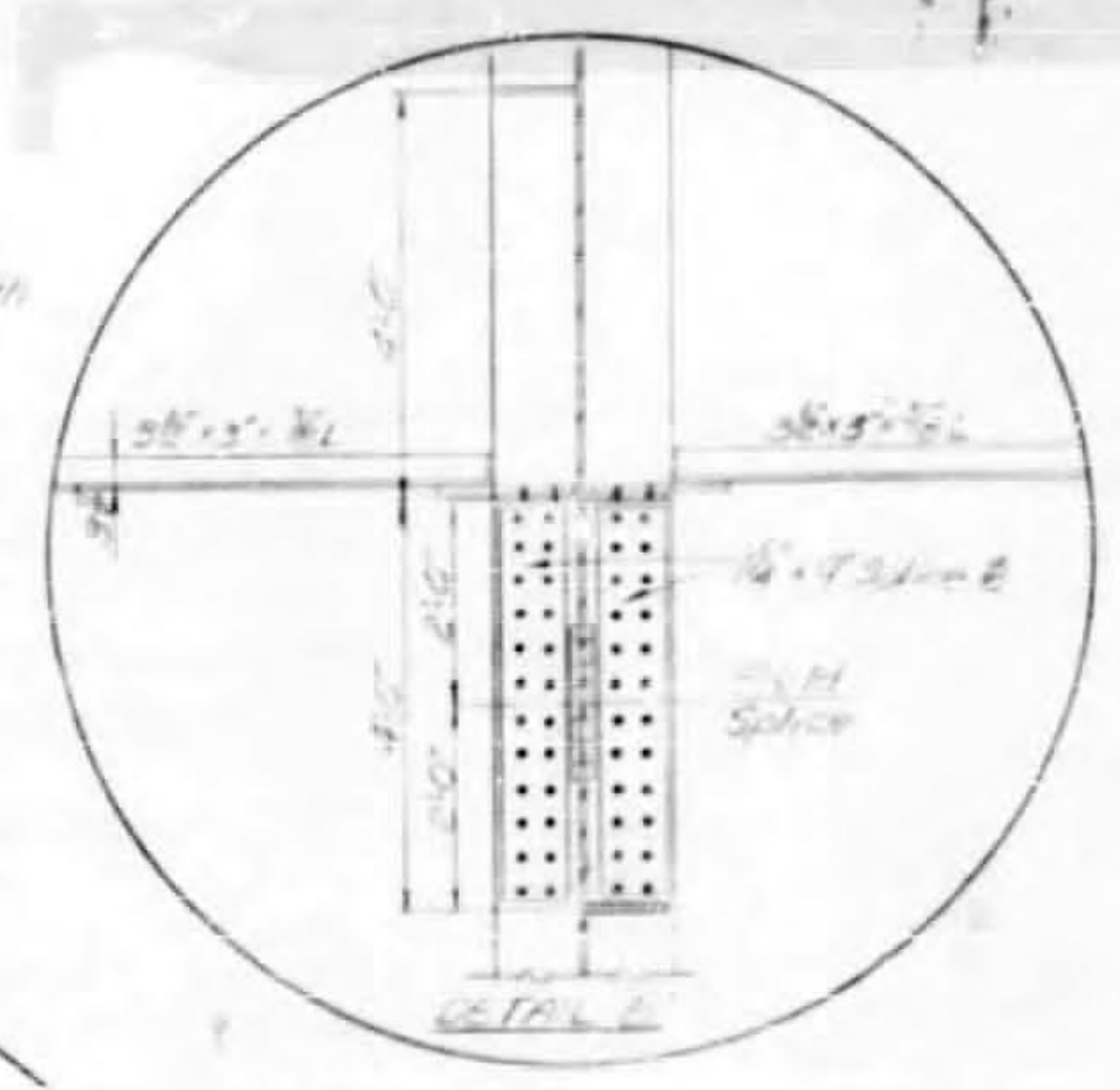
Excavation for Cap. Not to be paid for.



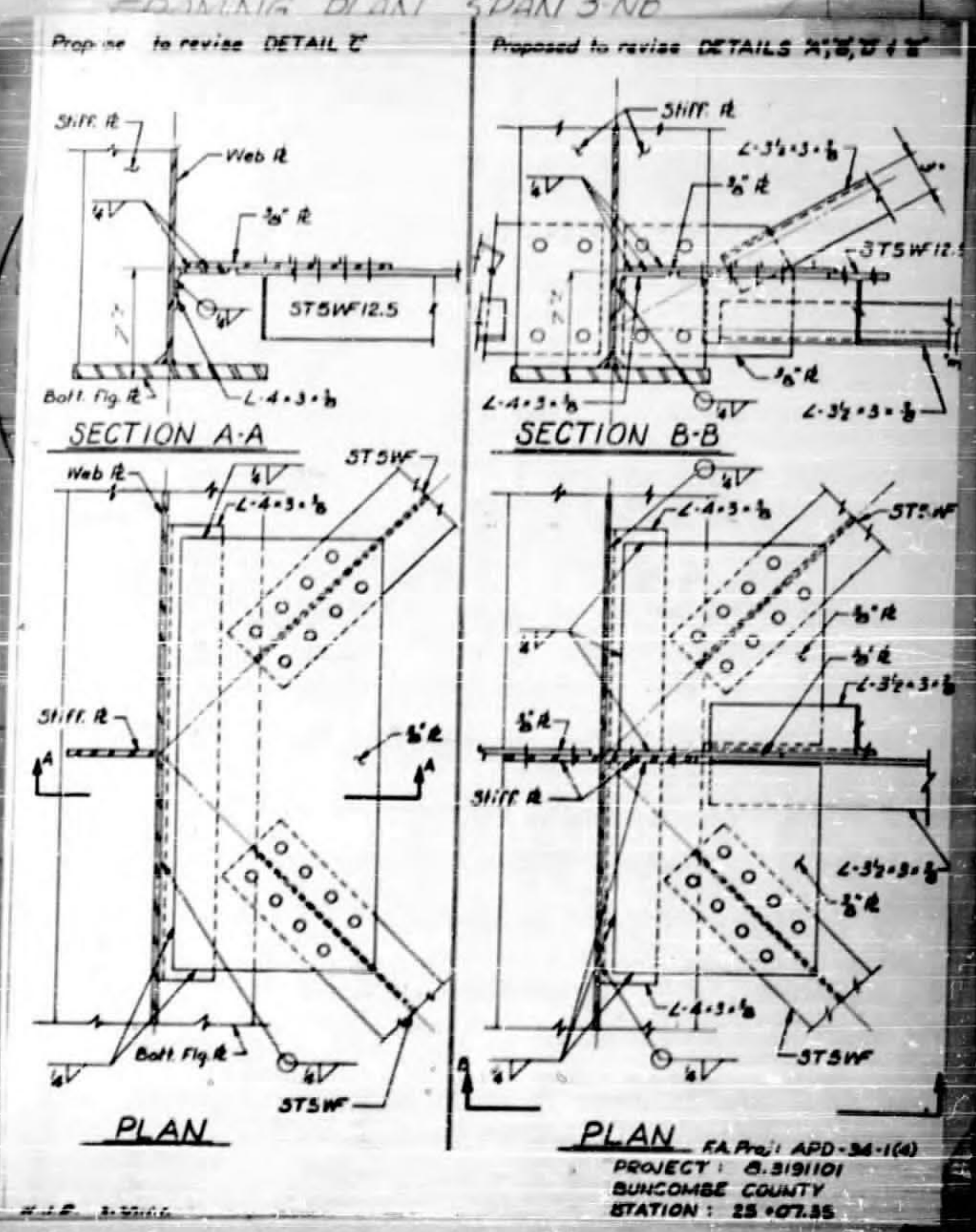
Note:
Elevations shown are given at top of top flange of bearing.



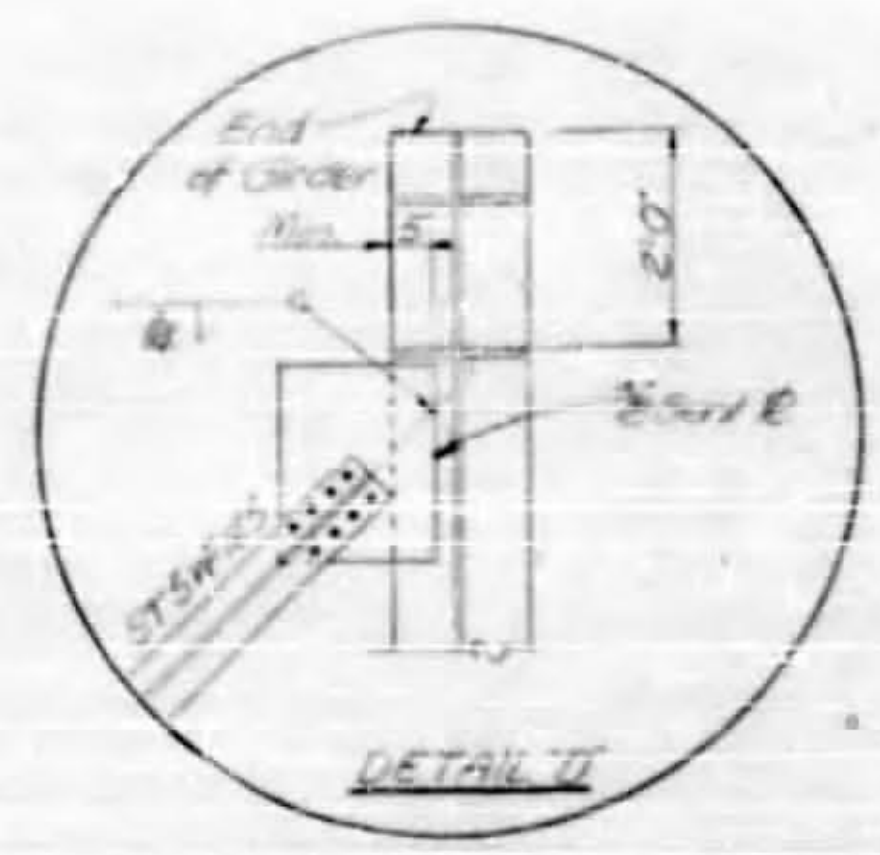
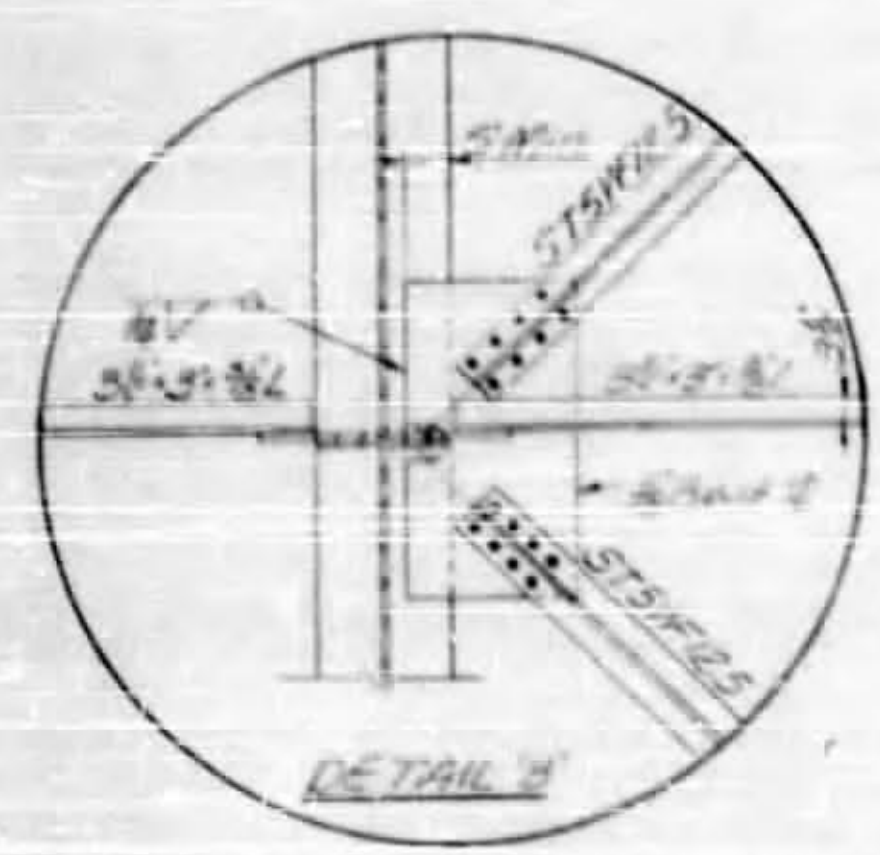
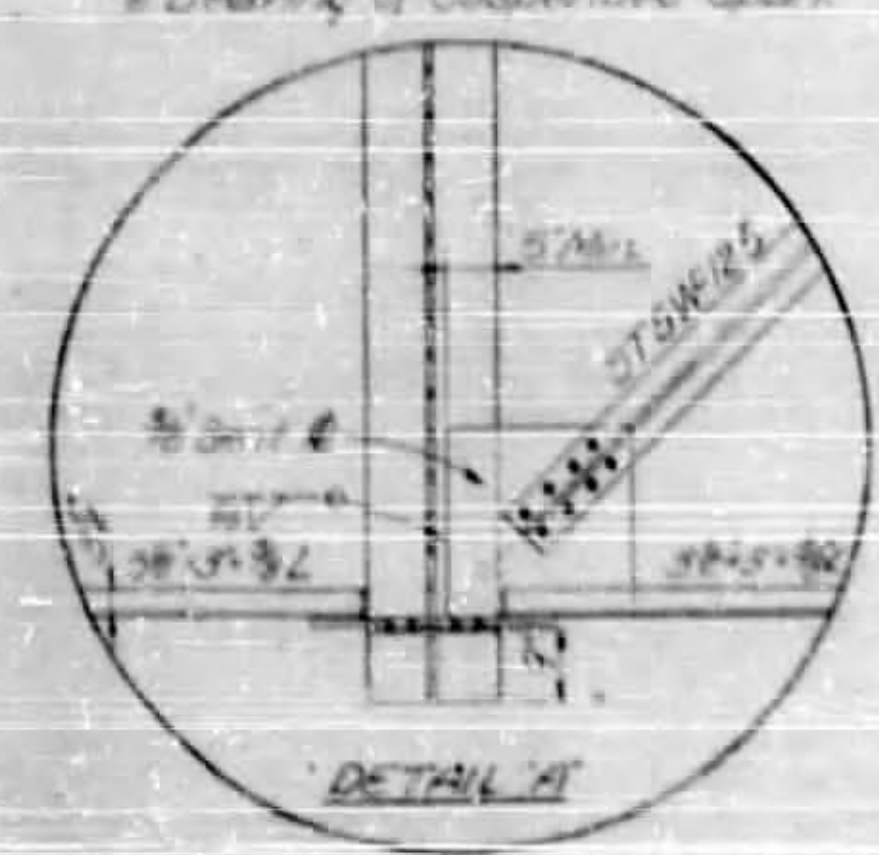
NOTE:
Field Connections for Lateral System and Diaphragms shall be bolted using 1/2" high strength bolts in accordance with the specifications.



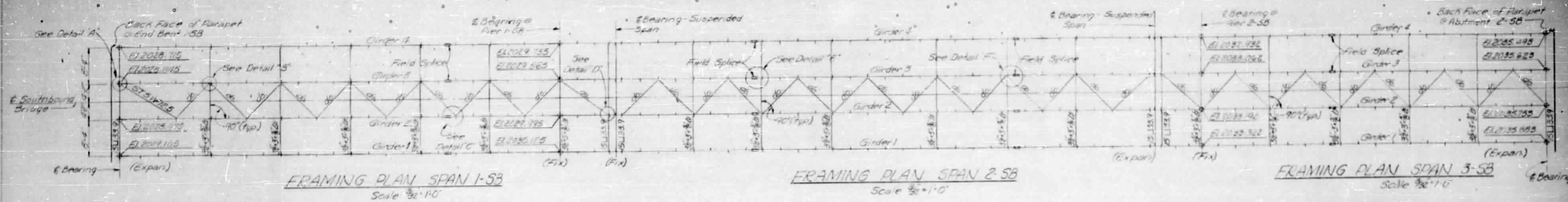
CAMBER
Camber @ Span 1 SB Bms 1-4
Span 2 SB Bms 1-4
Span 2 NB Bms 1-4
Span 3 NB Bms 1-4



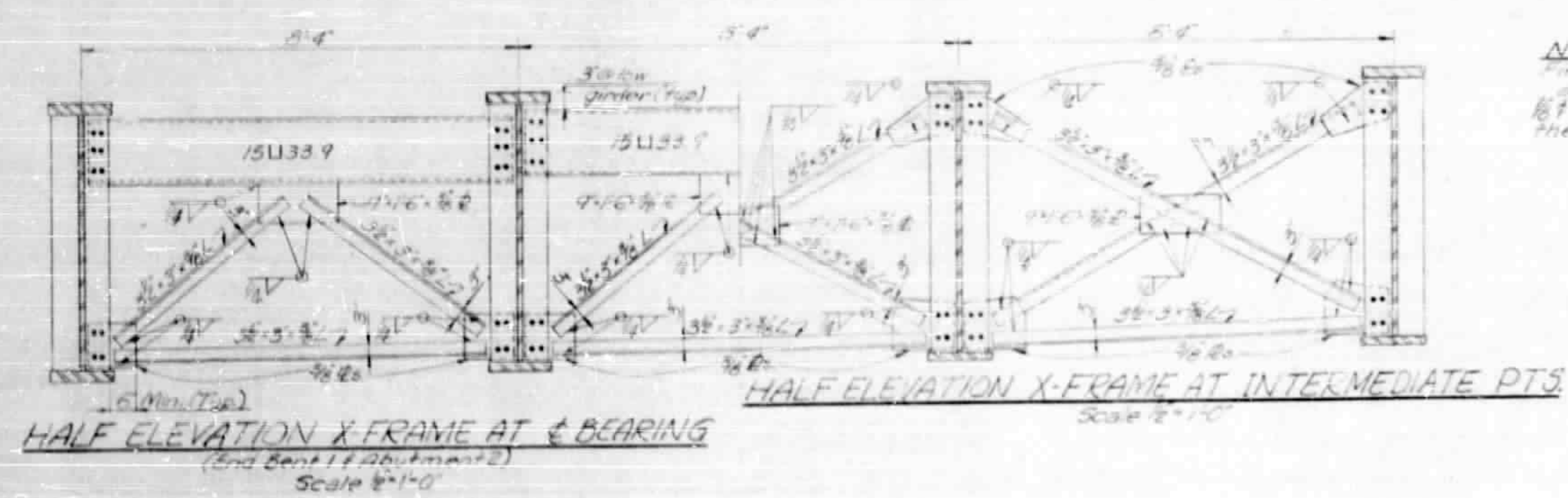
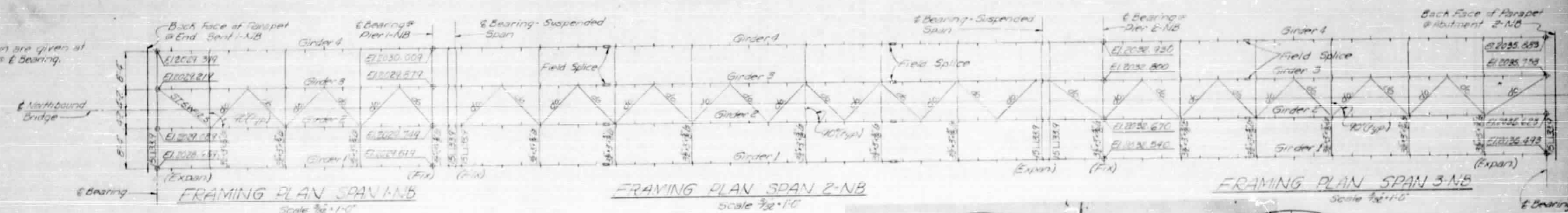
NOTE:
See Sheets 7-9 for X-FRAME & BEARING of Suspended Span.



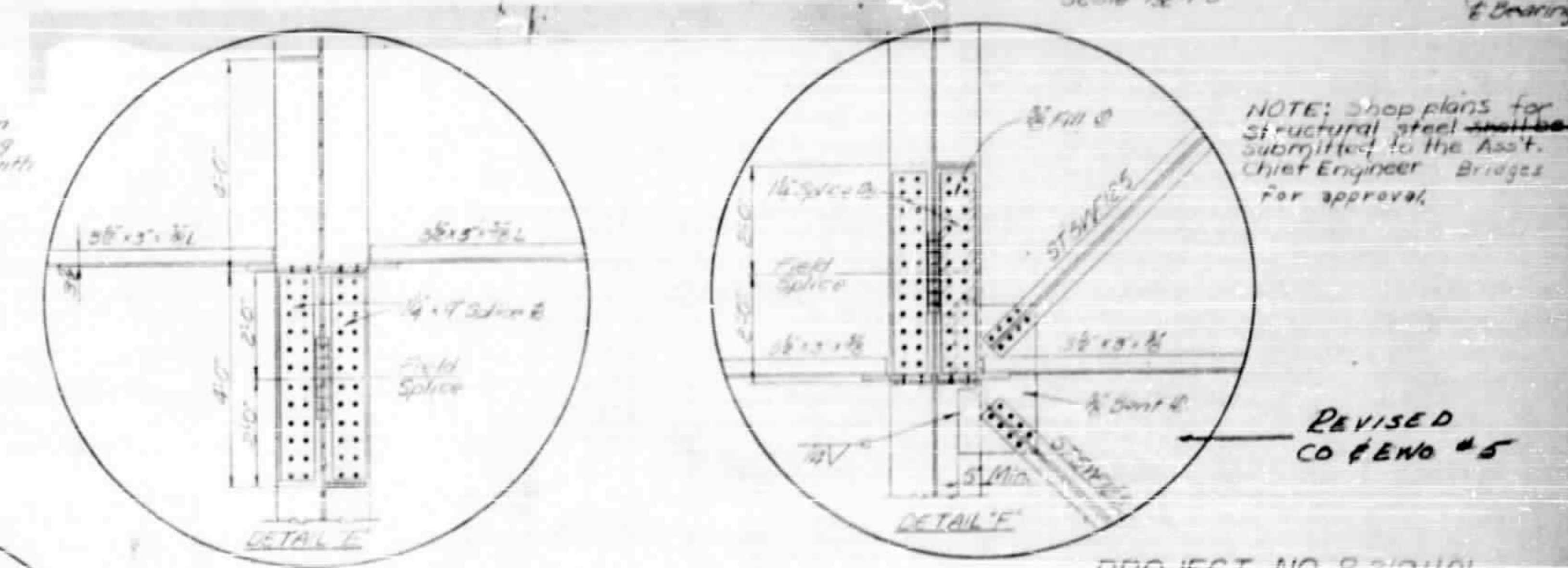
DESIGNED BY: [Signature] DATE: 9-62
CHECKED BY: [Signature] DATE: 9-62
SPECIAL: [Signature] DATE: 9-62



Note:
Elevations shown are given at top of top flange & bearing.



NOTE:
Field connections for Lateral System and Diaphragms shall be bolted using 1/2" high strength bolts in accordance with the specifications.



NOTE: Shop plans for structural steel shall be submitted to the Asst. Chief Engineer, Bridges for approval.

REVISED
CO # ENO # 5

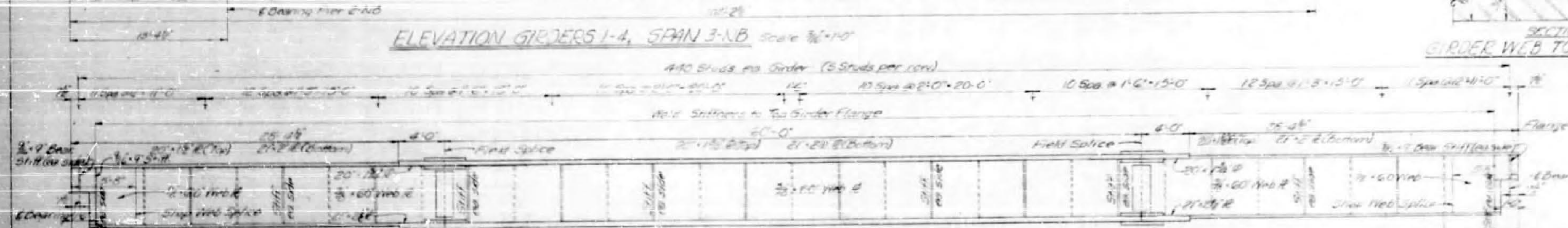
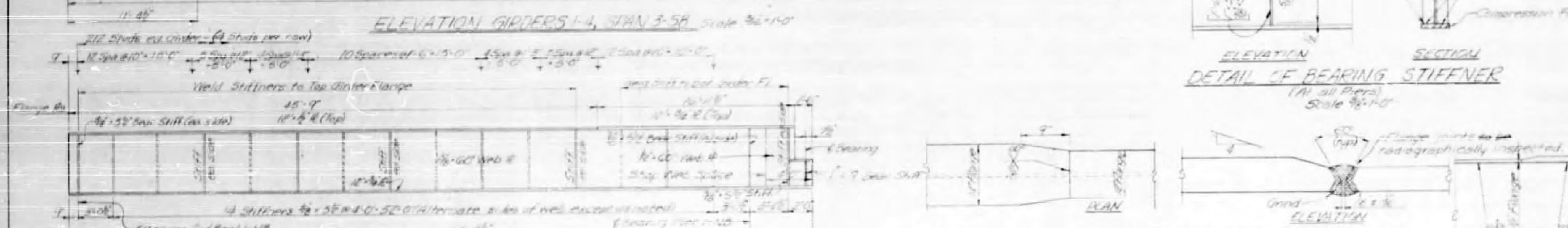
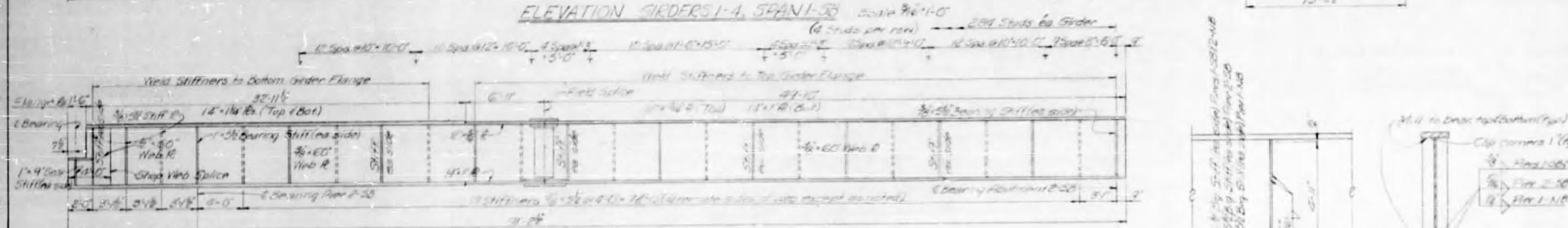
PROJECT NO. B-21001
BUNCOMBE COUNTY
STATION 25+07.35

CAMBER		
Centerline @ Span 1 SB	Ends 1-4	1/8"
Span 1 SB	Ends 1-4	1/8"
Span 2 NB	Ends 1-4	1/8"
Centerline @ Span 2 NB	Ends 1-4	1/8"

Scale 3/8"=1'-0"
Details A and F

STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION RALEIGH			
WASHEVILLE-WEAVERVILLE-CONN. over BEVARD RD. (Rte. 191) & HOMINY CR.			
3 SPAN DECK PLATE GIRDER SUPERSTRUCTURE SCALE AS SHOWN			
			5-16
			110

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

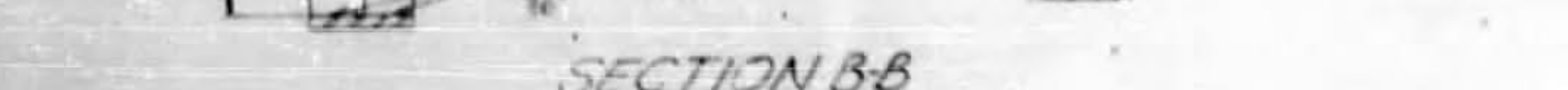
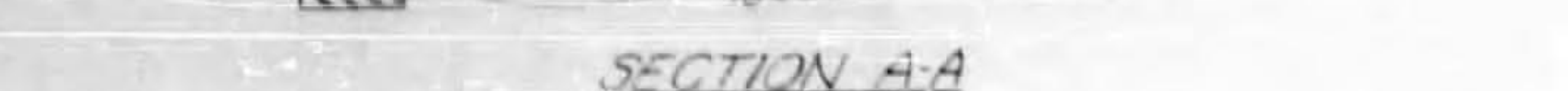
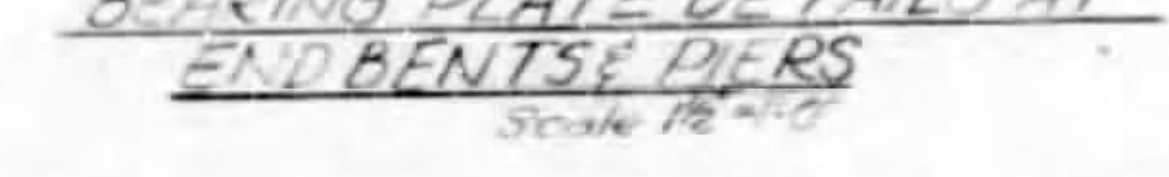
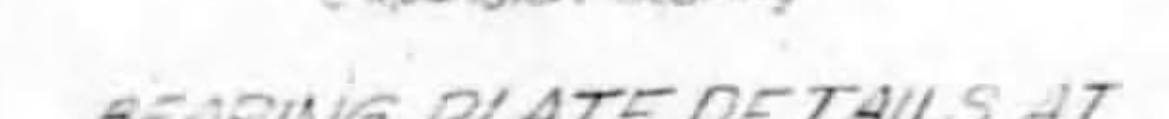
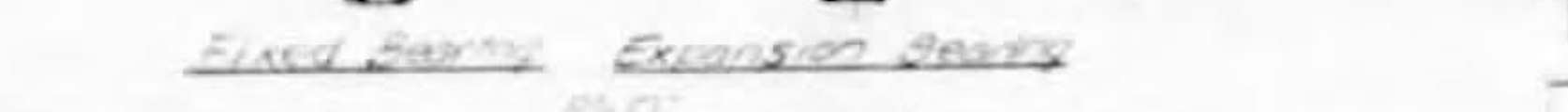
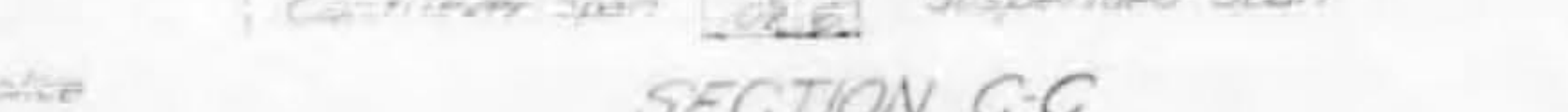
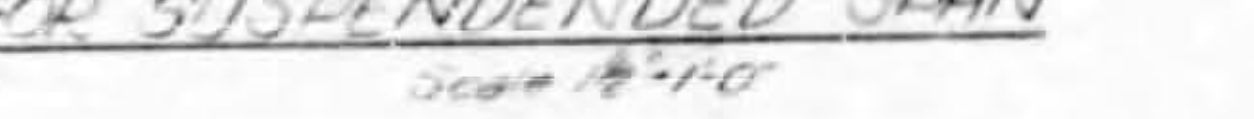
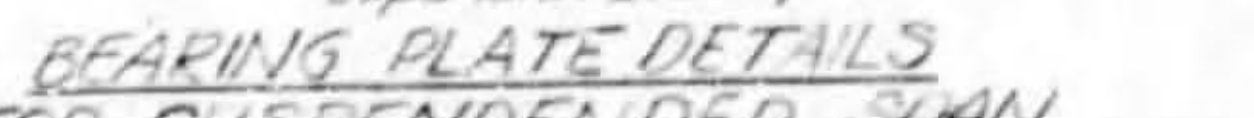
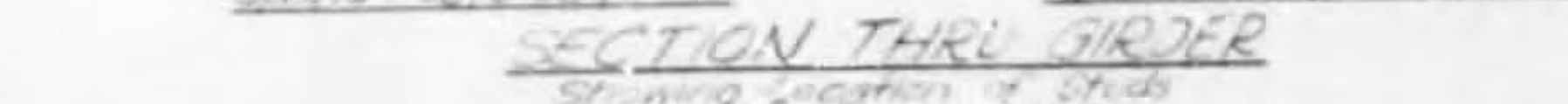
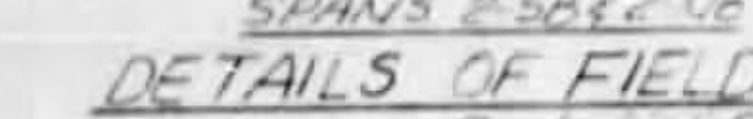
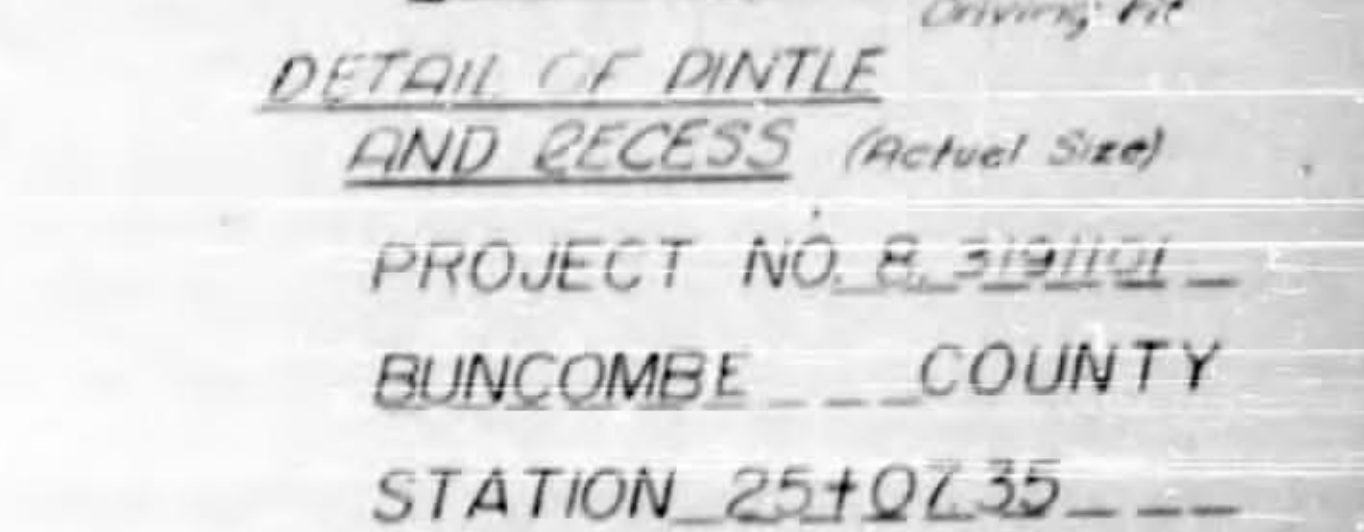
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STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
WASHEVILLE - WEAVERVILLE - CONN.
over BREVARD RD (Rt. 191) & HOMINY C.
3 SPAN DECK PLATE GIRDER
SUPERSTRUCTURE
SCALE AS SHOWN

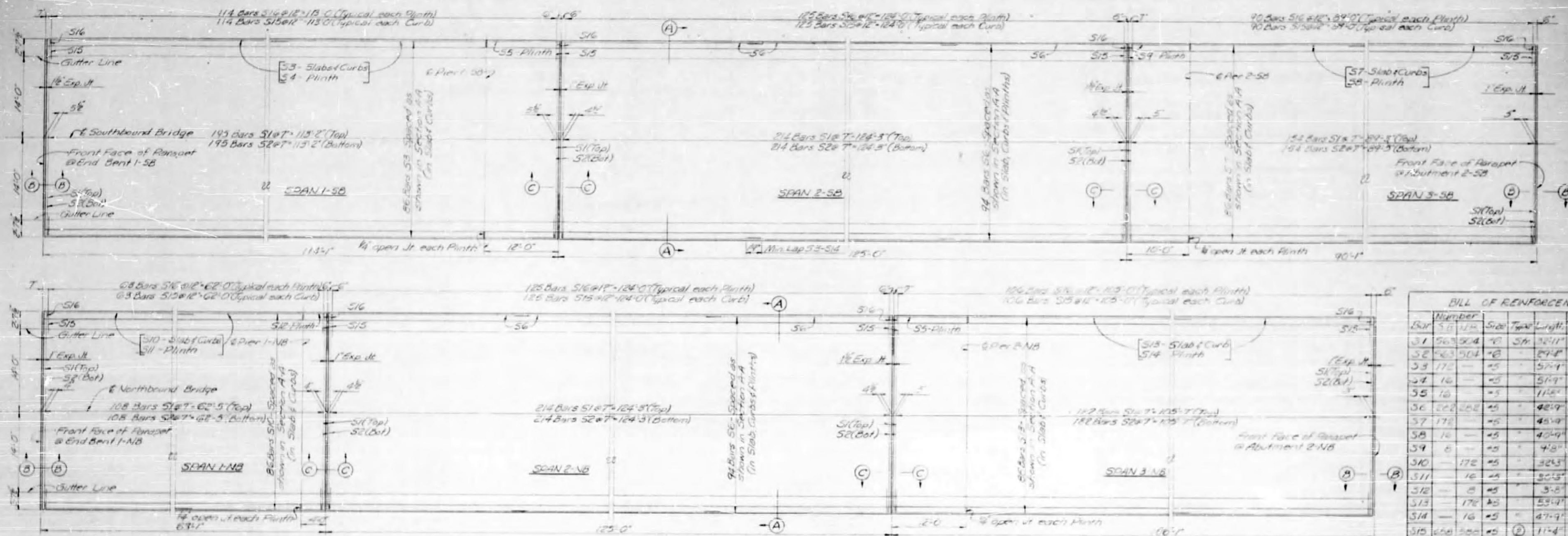
3-17	110	TOTAL

NOTE:
Stiffers shown in Gerdor drawings are for
Girders 142 & shown on Greening Plans. Stiffers
for Girders 314 are on opposite side them that
which is shown.

NOTE:
Camber at points indicated in table includes the effect of total dead load, and the vertical curve. Camber at midpoint, Span 2, is ~~measured from a straight line connecting bearings~~ ~~suspended spans~~ ~~measured from a straight line connecting bearings~~. Camber at bearings ~~suspended spans~~ is measured from extension of straight line connecting bearings Span 1. Camber at bearings ~~suspended spans~~ is measured from extension of straight line connecting bearings Span 3.



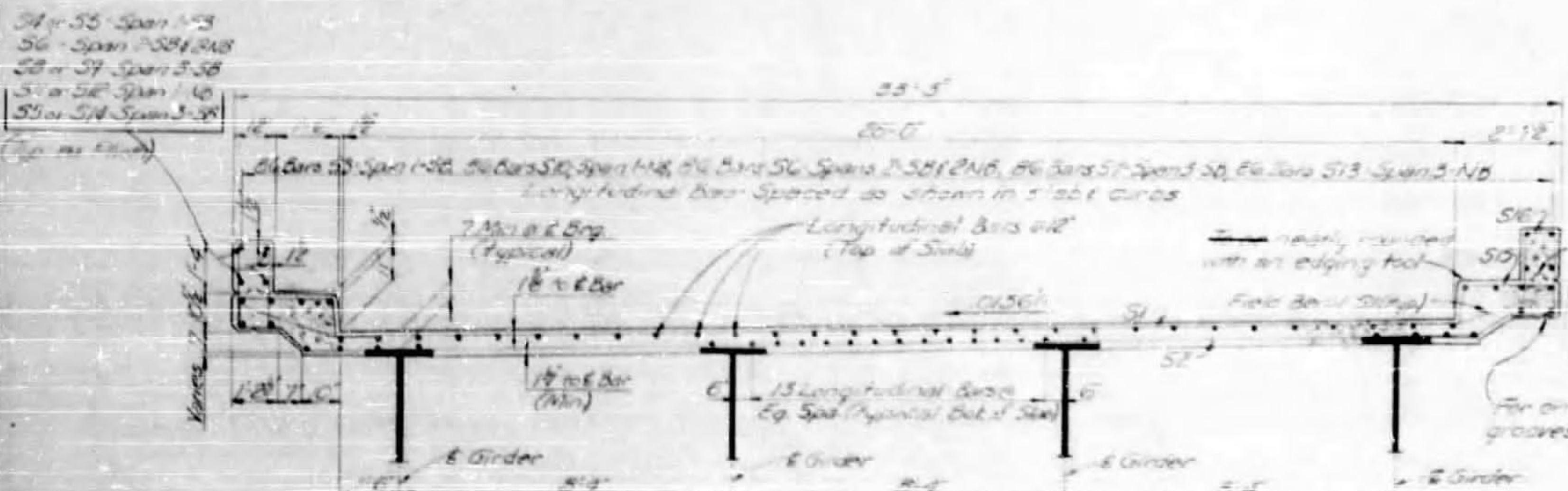
	DESIGNED BY	WTC	DATE	7-22
	DRAWN BY	ADM	DATE	7-28
SPECIAL	TRACED BY			
	CHECKED BY	YAE	DATE	7-22



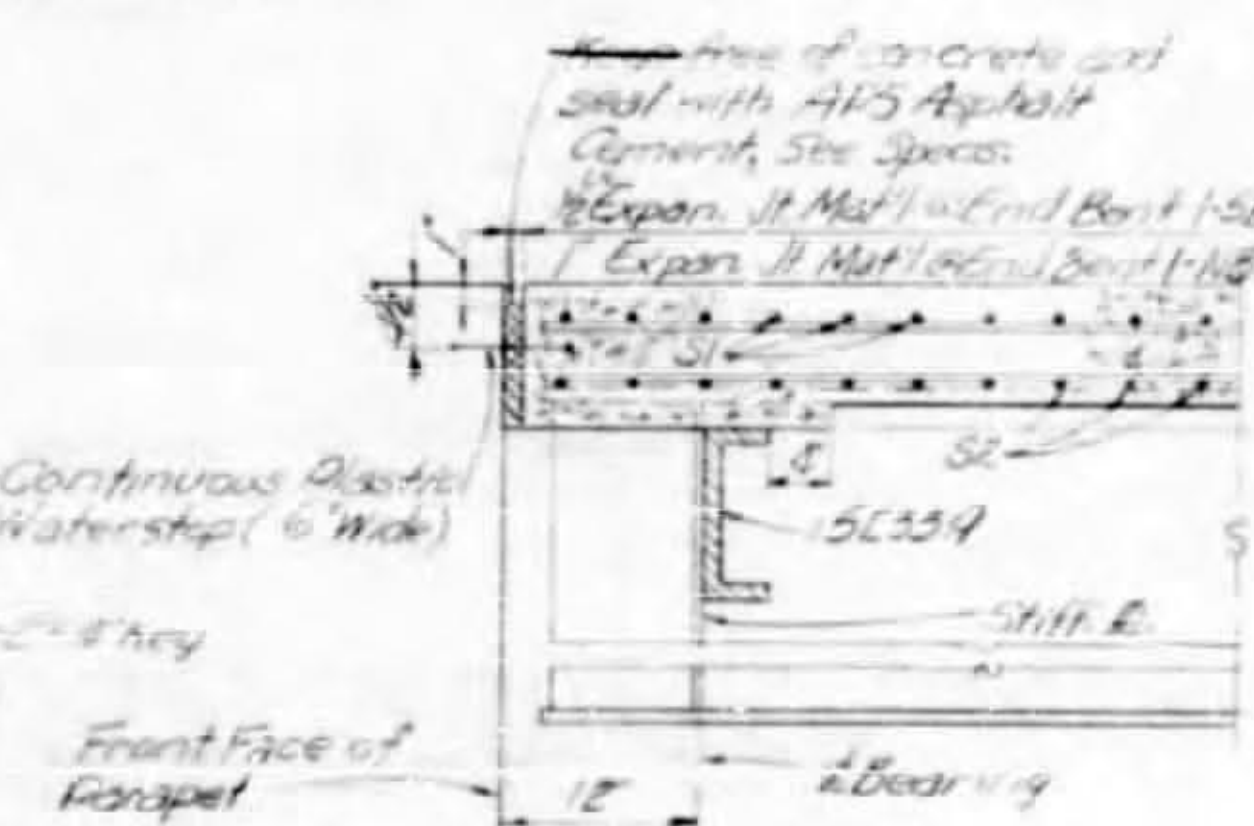
PLAN OF SLABS
Scale 1/8" = 1'-0"

NOTE:
See Sheets 8-13, 8-14 for Slab Construction Joints and Pouring Order of Deck

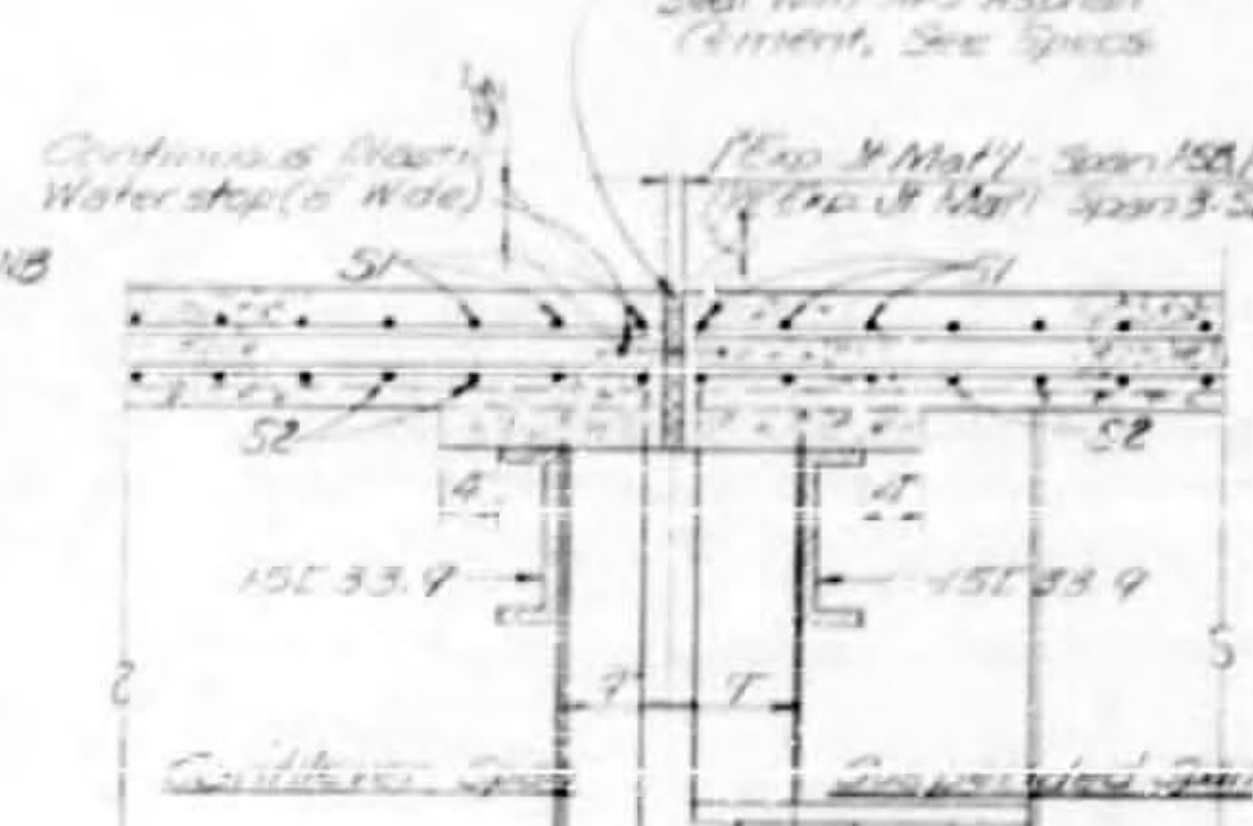
BILL OF REINFORCEMENT									
Bar	Size	Length	Weight	Quantity	Weight	Bar	Size	Length	Weight
31	S16	304'	21,830	1	21,830	32	S16	304'	21,830
33	S16	172'	12,514	1	12,514	34	S16	172'	12,514
35	S16	172'	12,514	1	12,514	36	S16	172'	12,514
37	S16	172'	12,514	1	12,514	38	S16	172'	12,514
39	S16	172'	12,514	1	12,514	40	S16	172'	12,514
41	S16	172'	12,514	1	12,514	42	S16	172'	12,514
43	S16	172'	12,514	1	12,514	44	S16	172'	12,514
45	S16	172'	12,514	1	12,514	46	S16	172'	12,514
47	S16	172'	12,514	1	12,514	48	S16	172'	12,514
49	S16	172'	12,514	1	12,514	50	S16	172'	12,514
51	S16	172'	12,514	1	12,514	52	S16	172'	12,514
53	S16	172'	12,514	1	12,514	54	S16	172'	12,514
55	S16	172'	12,514	1	12,514	56	S16	172'	12,514
57	S16	172'	12,514	1	12,514	58	S16	172'	12,514
59	S16	172'	12,514	1	12,514	60	S16	172'	12,514
61	S16	172'	12,514	1	12,514	62	S16	172'	12,514
63	S16	172'	12,514	1	12,514	64	S16	172'	12,514
65	S16	172'	12,514	1	12,514	66	S16	172'	12,514
67	S16	172'	12,514	1	12,514	68	S16	172'	12,514
69	S16	172'	12,514	1	12,514	70	S16	172'	12,514
71	S16	172'	12,514	1	12,514	72	S16	172'	12,514
73	S16	172'	12,514	1	12,514	74	S16	172'	12,514
75	S16	172'	12,514	1	12,514	76	S16	172'	12,514
77	S16	172'	12,514	1	12,514	78	S16	172'	12,514
79	S16	172'	12,514	1	12,514	80	S16	172'	12,514
81	S16	172'	12,514	1	12,514	82	S16	172'	12,514
83	S16	172'	12,514	1	12,514	84	S16	172'	12,514
85	S16	172'	12,514	1	12,514	86	S16	172'	12,514
87	S16	172'	12,514	1	12,514	88	S16	172'	12,514
89	S16	172'	12,514	1	12,514	90	S16	172'	12,514
91	S16	172'	12,514	1	12,514	92	S16	172'	12,514
93	S16	172'	12,514	1	12,514	94	S16	172'	12,514
95	S16	172'	12,514	1	12,514	96	S16	172'	12,514
97	S16	172'	12,514	1	12,514	98	S16	172'	12,514
99	S16	172'	12,514	1	12,514	100	S16	172'	12,514



SECTION A-A
Scale 3/8" = 1'-0"



SECTION B-B
Scale 3/8" = 1'-0"



SECTION C-C
Scale 3/8" = 1'-0"

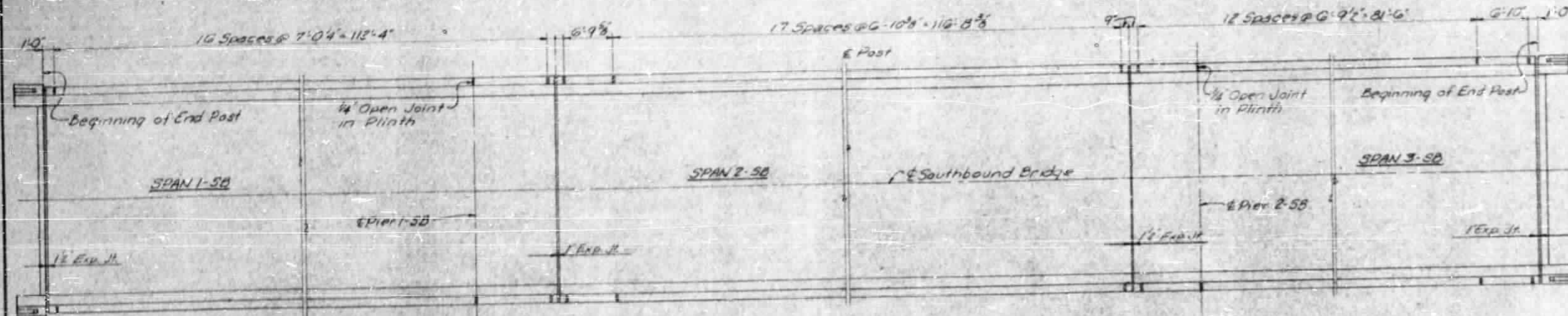
BILL OF MATERIAL FOR DECK	
South Bound Bridge	North Bound Bridge
Reinforcing Steel, Lbs. 3389	Reinforcing Steel, Lbs. 3021
Class A Concrete, Cu Yds. 97,154	Class A Concrete, Cu Yds. 86,784
Structural Steel, Approx. Lbs. 400,500	Structural Steel, Approx. Lbs. 365,700

PROJECT NO. 8319101
BUNCOMBE COUNTY
STATION 25+07.35

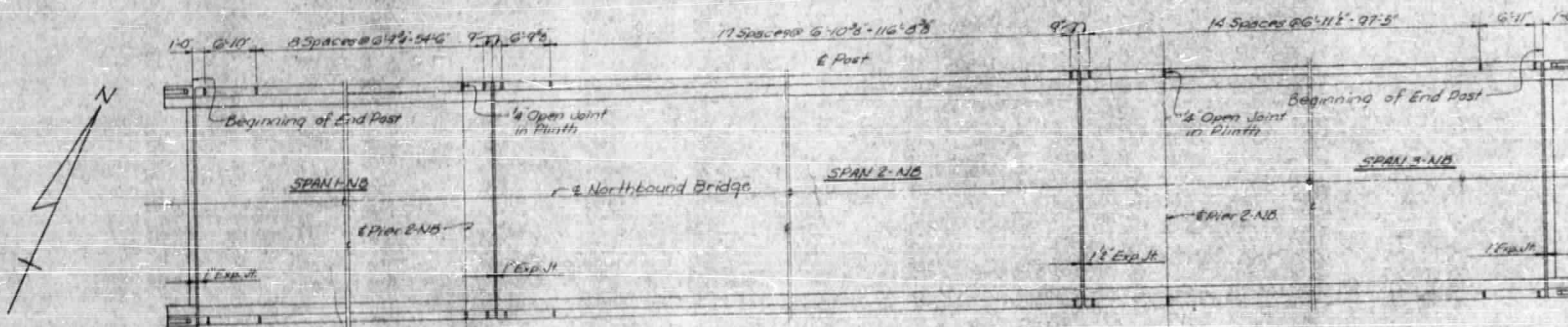
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
WASHEVILLE-WEAVERVILLE-CONN.
over BREVARD RD. Rte. 191 & HOMINY CR.
3 SPAN DECK PLATE GIRDER
SUPERSTRUCTURE
SCALE AS SHOWN

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 7-68

S-19
110



NOTE: Spacing as shown typical each plinth.



PLAN

Pay length 1246 L.F.

At the Contractor's option metal rail may be either Aluminum or Galvanized Steel in accordance with the requirements of the general notes and the following specifications for the alternate materials; however, the Contractor will be required to use the same rail material on all structures on the project for which metal rail is designated.

GENERAL NOTES

Unless noted on the plans, maximum length of rail section shall be two panels plus "stick thru."

End of rail to clear face of concrete End Post by 1/2".

For double panel runs of rail, set screws shall be set tight at center post and snug at ends to allow for expansion.

For single panel runs, set screws to be tight at one end and snug at other end.

3/4" Anchor bolts - hex nuts and washers to be steel galvanized in accordance with ASTM A-153 and painted with 2 coats of aluminum paint after erection.

Cast posts to be as shown or an approved equal.

Certified Mill reports are required for rails and posts. Shop inspection not required.

Metal Rail Posts to be set normal to curb grade.

Method of measurement for Metal Rails:

Unless otherwise stated, the length of Metal rails to be paid for shall be the continuous horizontal length measured from end to end of rail, excepting concrete posts, but without deductions for spaces between rail sections.

Concrete and reinforcing steel for End Post are included with Superstructure or End Bents.

ALUMINUM RAILS

Aluminum alloys to be as follows:
Cast Rail Posts A356-T6
Round Tubular Rail 6061-T6 or 6062-T6
Set Screws 2024-T4
Closure Plates 6061-T6 or 6062-T6

Round Tubular Rails to be of 4" O.D. with 1/4" minimum wall thickness.

The base of rail posts, or any other aluminum surface in contact with concrete shall be thoroughly coated with an aluminum impregnated caulking compound of approved quality.

GALVANIZED STEEL RAILS

Material and galvanizing are to conform to the following specifications:

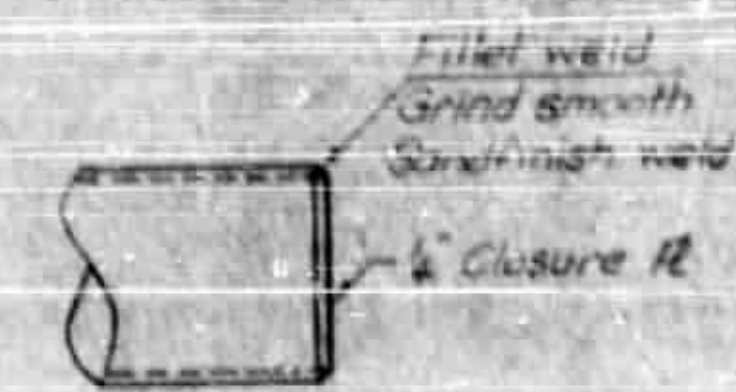
Cast Rail Post Malleable cast iron, ASTM A47, Grade 350NB, Galvanized to ASTM A123.
or Cast Steel, AASHTO M152-60, Grade 70, Galvanized to ASTM A123.

4" O.D. Rail Standard 3 1/2" Sheet Pipe, ASTM A53, Grade B, Galvanized to ASTM A123

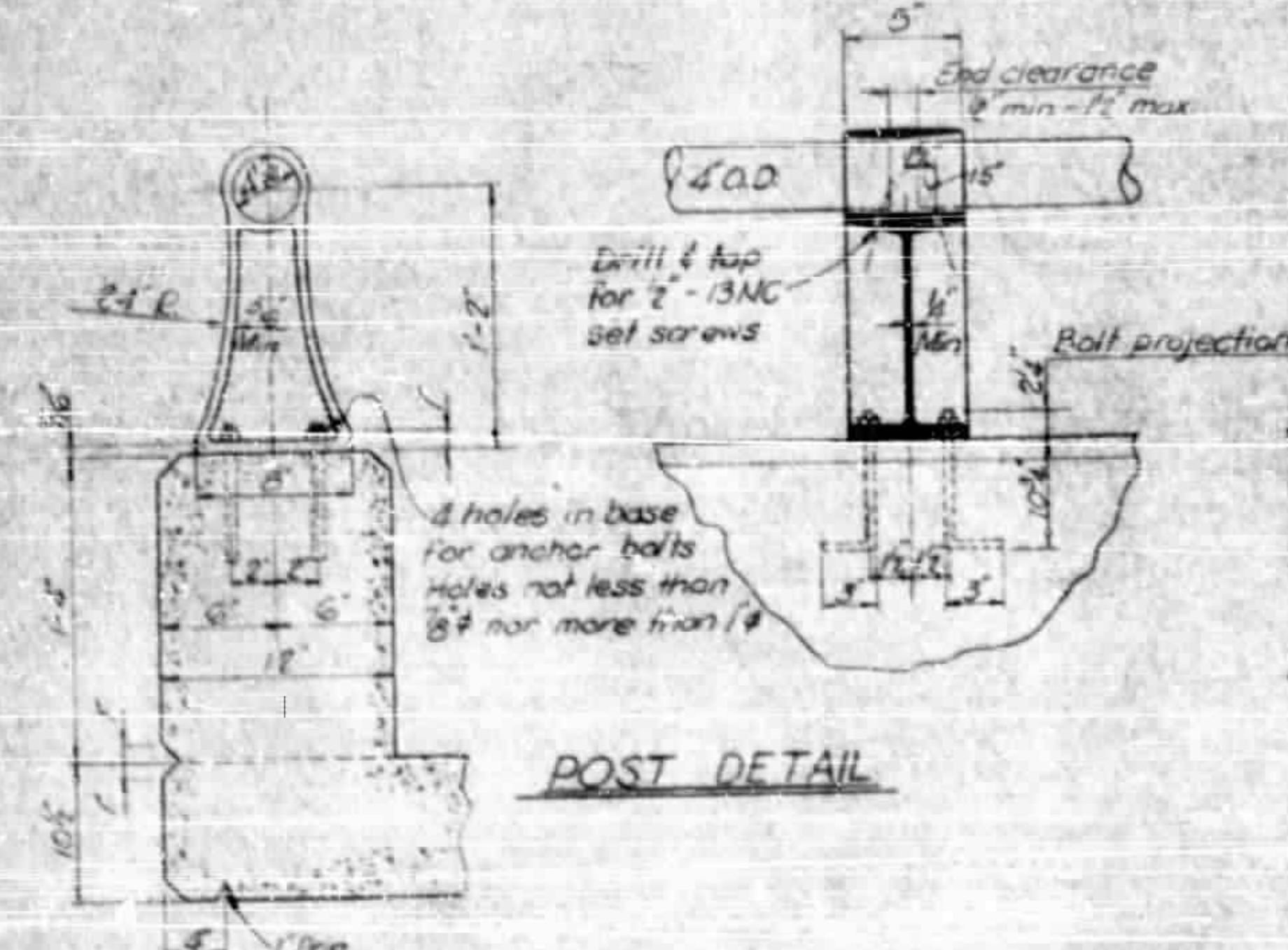
Closure Plates Steel, ASTM A242, Grade 50, Galvanized to ASTM A123

Set Screws Standard Steel Cap Screws, Galvanized to ASTM A153

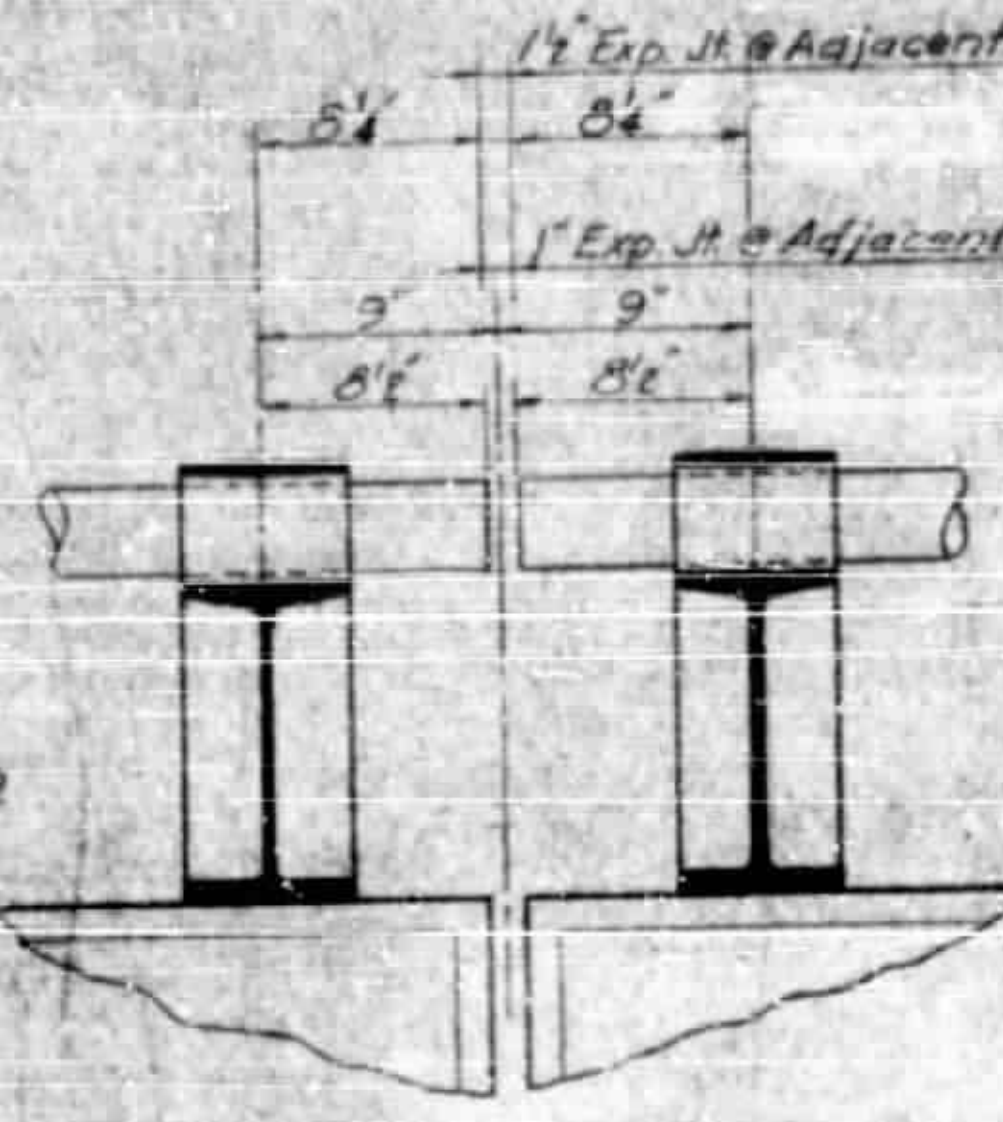
The cut ends of galvanized pipe railing, the end closure plate and after grinding smooth and areas adjacent to the weld where spatter coating has been burned by welding shall be thoroughly cleaned by wire brushing to remove all traces of welding flux and loose or cracked spatter after which these cleaned areas shall be given two coats of zinc paint meeting the requirements of Federal Specification MIL-P-26915 (USAF) Type 1.



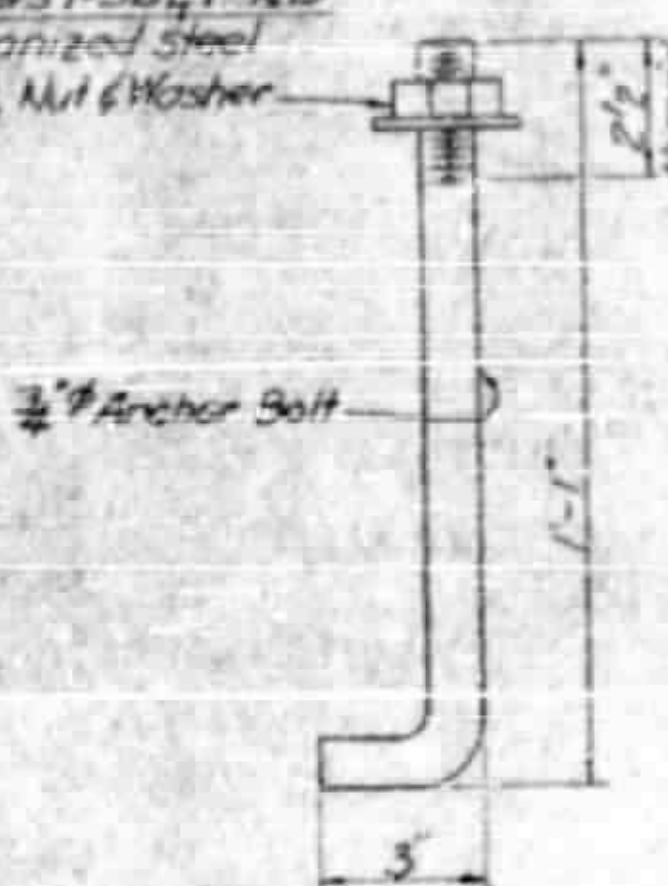
DETAIL
END CLOSURE



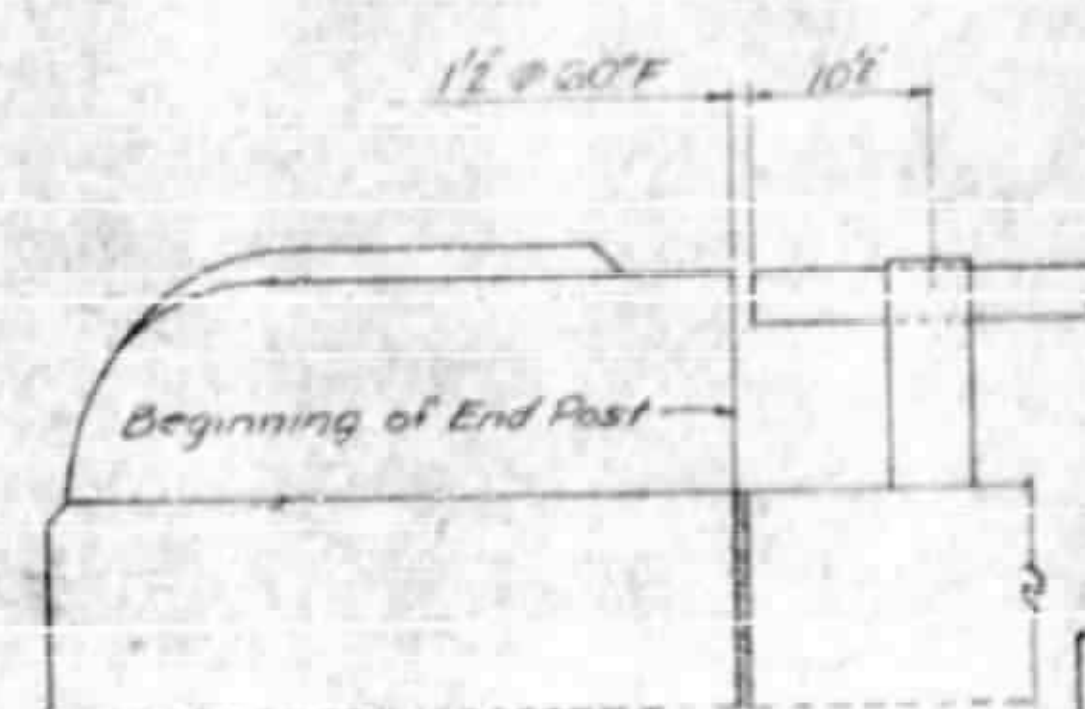
POST DETAIL



DETAIL - EXPANSION JOINT



DETAIL OF ANCHOR
BOLTS



END POST DETAILS

PROJECT NO. 2319401
BUNCOMBE COUNTY
STATION 25+07.35

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
STANDARD
1 SAR
METAL RAIL

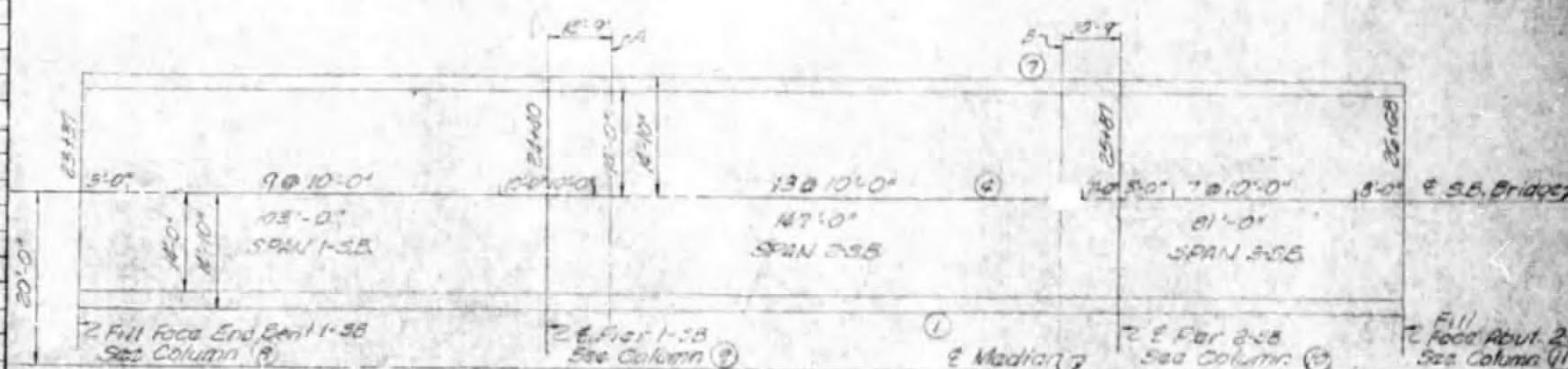
October 1982
S-20
110

DESIGNED BY DGM DPE 10-82
DRAWN BY DATE
CHECKED BY DATE 11-82

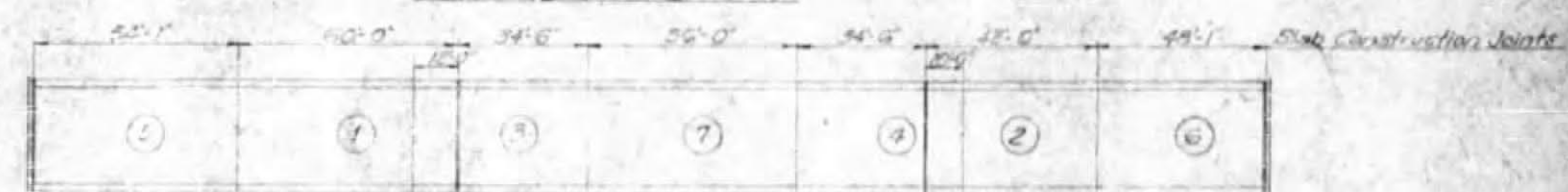
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86	100
87	100
88	100
89	100
90	100
91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

P.I. STA. 23+25
P.I. ELEV. 8021.12
LENGTH OF CURVE 850
G1 = 3.5% G2 = 1.4%

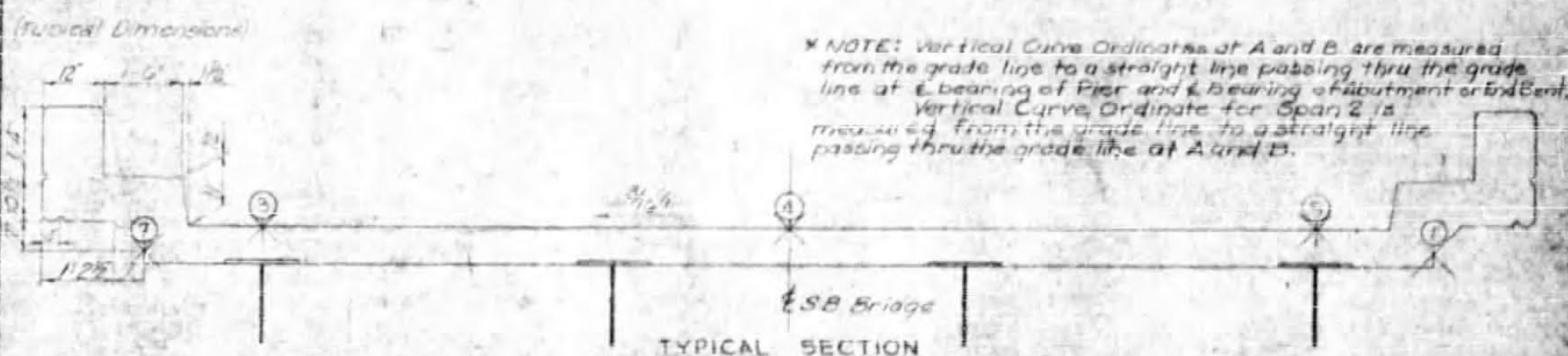
FED. ROAD DIST. NO.	STATE	PROJECT NO.
3	40	2312101
F.A. PROJECT APD-34-1(4)		



PLAN
SOUTHBOND BRIDGE



POLIRING ORDER FOR DECK



* NOTE: Vertical Curve Ordinates at A and B are measured from the grade line to a straight line passing thru the grade line at E bearing of Pier and E bearing of Abutment or End Bent. Vertical Curve Ordinate for Span 2 is measured from the grade line to a straight line passing thru the grade line at A and B.

TABLE OF DEAD LOAD DEFLECTIONS (inches)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4
Beam alone in place	3/16"	0	1/8"	0
Superimposed D.L.	1/16"	3/16"	2/16"	0
Total	1/8"	3/16"	3/16"	0
Vertical Curve Ord	-1/8"	1/8"	-2/16"	+2/16"

Elevations shown in Columns (1) through (7) are final required elevations of the completed structure. In setting up the form and screed elevations, provisions ~~must be~~ made for deflections where required.

For Columns (a) through (d), given elevations on
at $\frac{1}{2}$ intervals normal to $\frac{1}{2}$ of roadway from
the left gutter line to the right gutter line.

HEADER 5/55

COLUMN (8) Full Face of Reef		COLUMN (9) & of Pier 1		COLUMN (10) & of Pier 2		COLUMN (11) Full Face of Abut 2		COLUMN (12)		COLUMN (13)	
Distance	Elevation	Distance	Elevation	Distance	Elevation	Distance	Elevation	Distance	Elevation	Distance	Elevation
100	570	100	560	100	553	100	554				
200	568	200	557	200	555	200	555				
300	567	300	548	300	550	300	546				
400	560	400	549	400	547	400	538				
500	558	500	545	500	540	500	539				
600	556	600	543	600	539	600	540				
700	546	700	545	700	542	700	537				
800	545	800	545	800	542	800	537				
900	547	900	537	900	538	900	539				
1000	540	1000	537	1000	537	1000	537				
1100	537	1100	530	1100	536	1100	535				
1200	538	1200	527	1200	533	1200	530				

PROJECT NO. 8.319H01

BUNCOMBE COUNTY

STATION: 25+07.35

STATE OF NORTH CAROLINA

STATE HIGHWAY COMMISSION

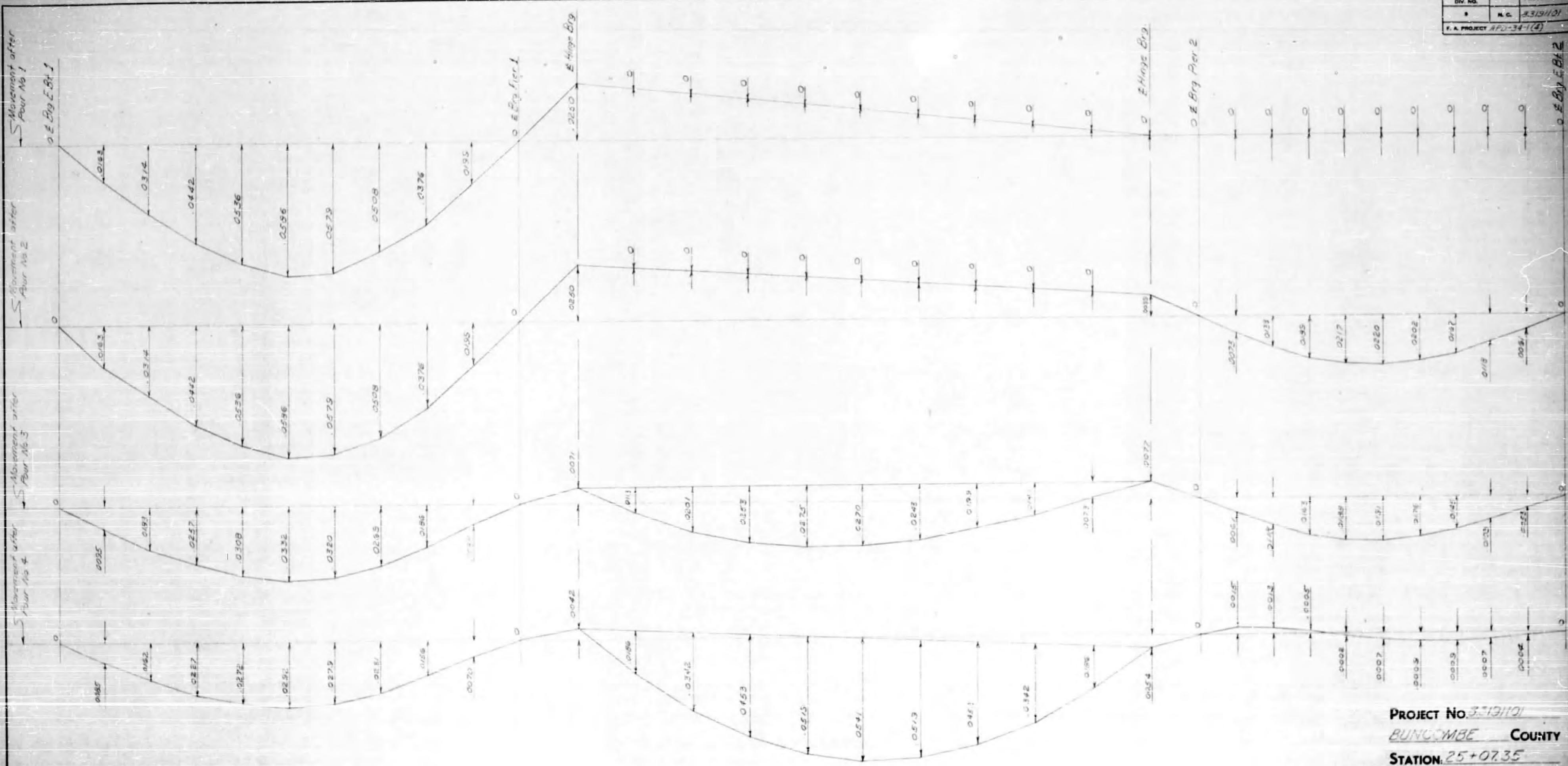
W ACHEVILLE-WEAVERVILLE - COME
over BREVARD RD(Rte 19) 8 HOMINY CR.
3 SPAN DECK PLATE GIRDER

FOR SETTING UP
FORMS AND SCREEDS

SCALE AS SHOWN

S-2
110

SPECIAL	DESIGNED BY	TJS	DATE	7-2-68
	DRAWN BY	TJS	DATE	8-2-68
	TRACED BY		DATE	
	CHECKED BY	TJS	DATE	7-2-68

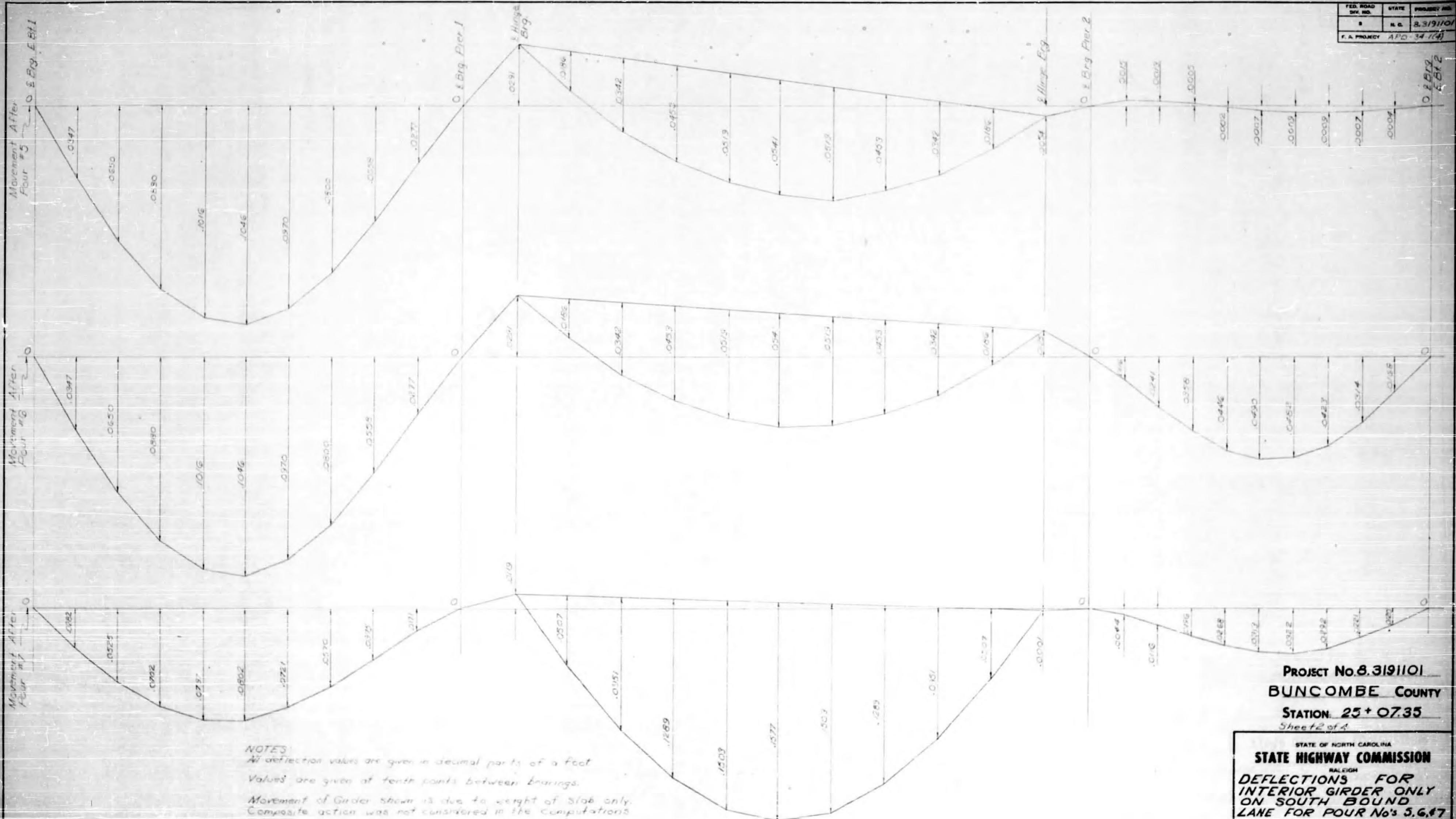


NOTES:
 All deflection values are given in decimal parts of a foot.
 Values are given at tenth points between bearings.
 Movement of Girder shown is due to weight of slab only.
 Composite action was not considered in the computations.

PROJECT No. 33191(3)
 BUNCOMBE COUNTY
 STATION: 25+07.35
 Sheet 1 of 4

STATE OF NORTH CAROLINA					
STATE HIGHWAY COMMISSION					
RALEIGH					
DEFLECTIONS FOR INTERIOR GIRDER ONLY ON SOUTH BOUND LANE FOR POURS Nos. 1, 2, 3 & 4					
Station 25+07.35					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
			S-22		
			110		
			TOTAL SHEETS		
			S-23		
			110		
			TOTAL SHEETS		

FED. ROAD DIV. NO.	STATE	PROJECT NO.
8	N.C.	8.3191101
F.A. PROJECT		APD-34 (74)



NOTES:
 All deflection values are given in decimal parts of a foot.
 Values are given at tenth points between bearings.
 Movement of Girder shown is due to weight of Slab only.
 Composite action was not considered in the computations.

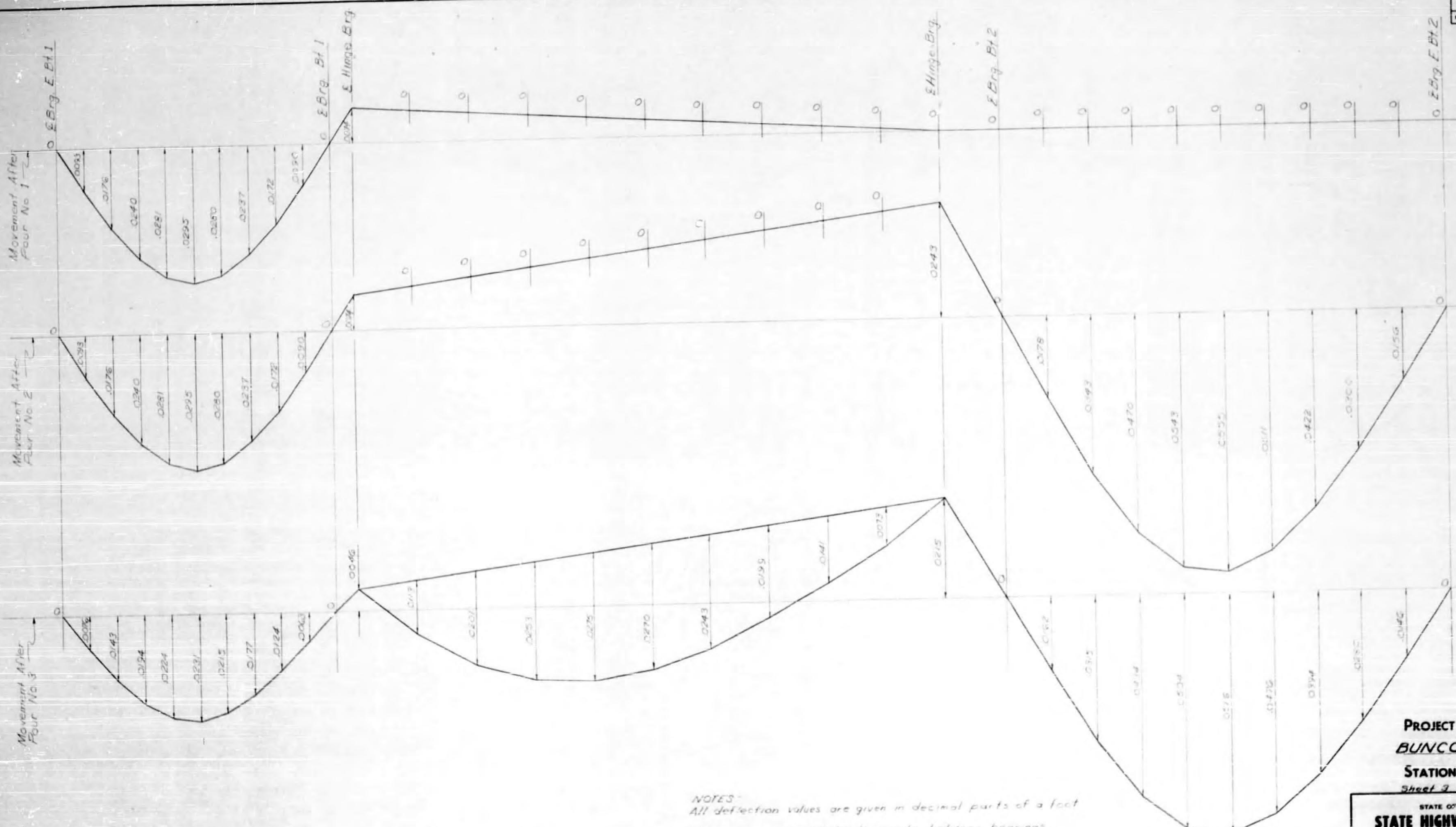
PROJECT No. 8.3191101
 BUNCOMBE COUNTY
 STATION 25+07.35
 Sheet 2 of 4

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH
 DEFLECTIONS FOR
 INTERIOR GIRDER ONLY
 ON SOUTH BOUND
 LANE FOR FOUR No's 5, 6, 7

NO.	BY	DATE	NO.	BY	DATE
1			2		
3			4		

September 1966

FED. ROAD DIV. NO.	STATE	PROJECT NO.
5	N. C.	83191101
P. A. PROJECT		APD-34-1(4)

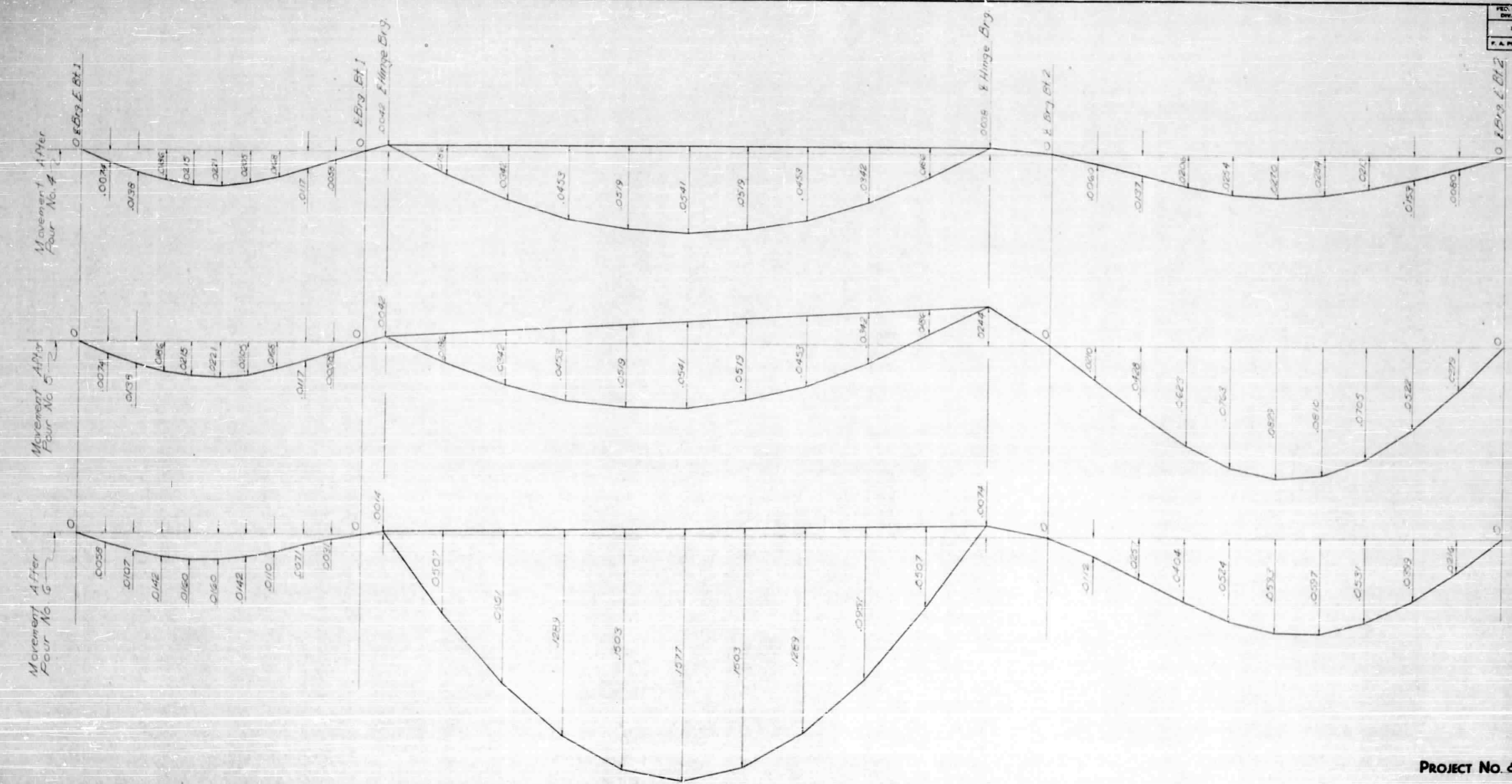


NOTES:
 All deflection values are given in decimal parts of a foot
 Values are given at tenth points between bearings
 Movement of Girder shown is due to weight of slab only
 Composite action was not considered in the computations

PROJECT No. 83191101
 BUNCOMBE COUNTY
 STATION: 25 + 07.35
 Sheet 3 of 4

STATE OF NORTH CAROLINA					
STATE HIGHWAY COMMISSION					
RALEIGH					
DEFLECTIONS FOR					
INTERIOR GIRDER ONLY					
ON NORTH BOUND LANE					
FOR POUR No.'s 1, 2, & 3					
SEPTEMBER 1966					
NO.	BY	DATE	NO.	BY	DATE
1			2		9-24
2			3		110

FEED ROAD BY: R.S.	STATE	PROJECT NO.
8	N.C.	8319101
F.A. PROJECT	APD 34-104	



NOTES:
 All deflection values are given in decimal parts of a foot.
 Values are given at tenth points between bearings.
 Movement of Girder shown is due to weight of slab only.
 Composite action was not considered in the computations.

PROJECT No. 8319101
 BUNCOMBE COUNTY
 STATION: 2510735

SHEET 4 of 4

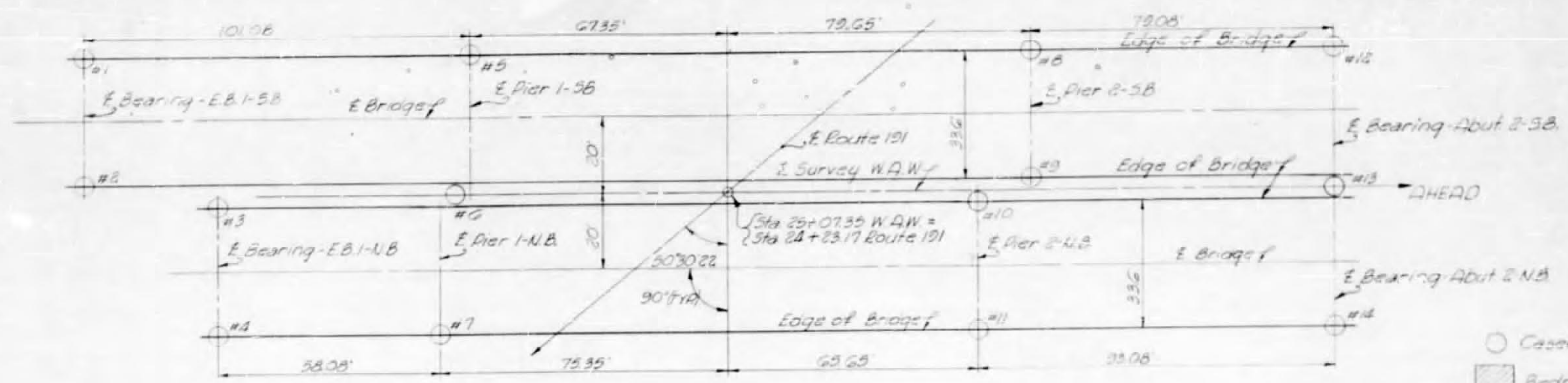
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH

DEFLECTIONS FOR
 INTERIOR GIRDER ONLY
 ON NORTH BOUND LANE
 FOR POURS No. 4, 5, & 6
 SEPTEMBER 1966

REVISIONS			
NO.	BY	DATE	REMARKS
1			
2			

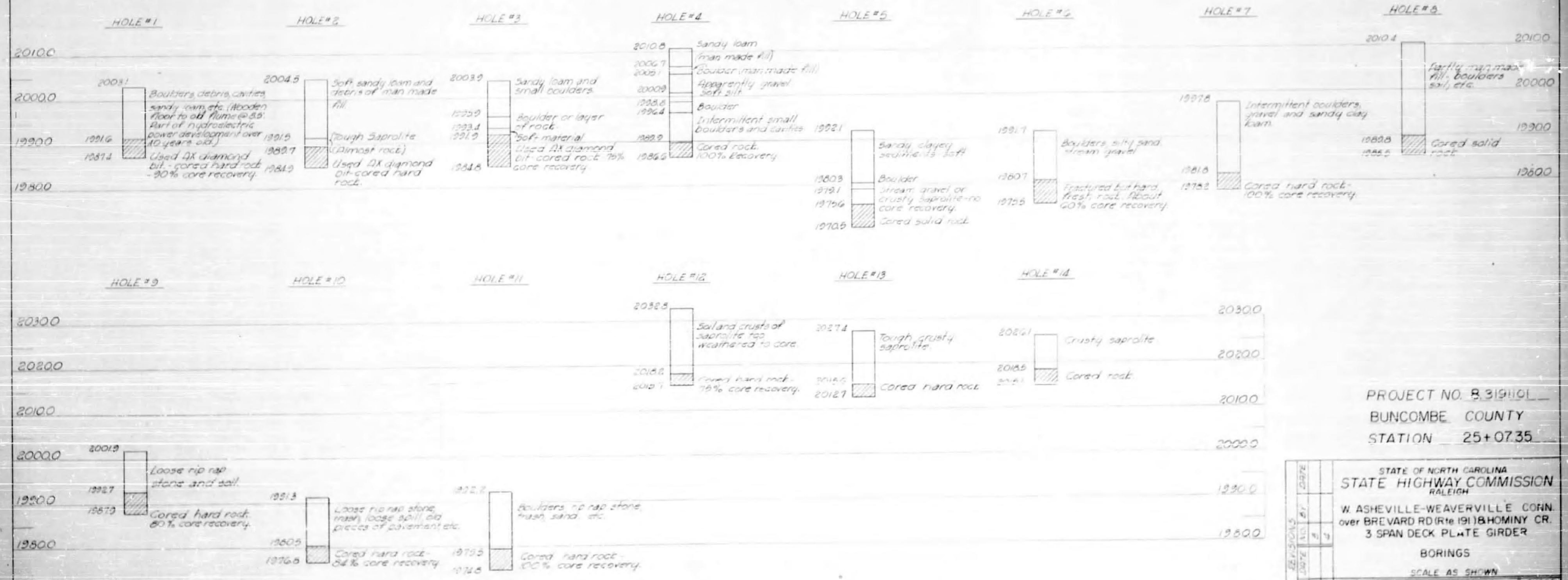
DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 1-1-66

COLUMN (1) Bottom of Overhang		COLUMN (2) Top of Curb		COLUMN (3) t of Exterior Beam		COLUMN (4) t of N.B. Bridge		COLUMN (5) t of Exterior Beam		COLUMN (6) Top of Curb		COLUMN (7) Bottom of Overhang	
Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation
8'-0"	29.440 FILL FACE					8'-0"	29.792 25+80					8'-0"	29.084 25+80
8'-0"	29.510 25+80					8'-0"	29.854 25+80					8'-0"	29.170 25+80
8'-0"	29.607 25+80					8'-0"	29.946 25+80					8'-0"	29.276 25+80
8'-0"	29.718 25+80					8'-0"	30.040 25+80					8'-0"	29.372 25+80
8'-0"	29.829 25+80					8'-0"	30.136 25+80					8'-0"	29.478 25+80
8'-0"	29.938 25+80					8'-0"	30.232 25+80					8'-0"	29.574 25+80
8'-0"	30.049 25+80					8'-0"	30.328 25+80					8'-0"	29.670 25+80
8'-0"	30.156 25+80					8'-0"	30.424 25+80					8'-0"	29.766 25+80
8'-0"	30.261 25+80					8'-0"	30.520 25+80					8'-0"	29.862 25+80
8'-0"	30.364 25+80					8'-0"	30.616 25+80					8'-0"	29.958 25+80
8'-0"	30.467 25+80					8'-0"	30.712 25+80					8'-0"	30.054 25+80
8'-0"	30.567 25+80					8'-0"	30.808 25+80					8'-0"	30.150 25+80
8'-0"	30.667 25+80					8'-0"	30.904 25+80					8'-0"	30.246 25+80
8'-0"	30.767 25+80					8'-0"	31.000 25+80					8'-0"	30.342 25+80
8'-0"	30.867 25+80					8'-0"	31.096 25+80					8'-0"	30.438 25+80
8'-0"	30.967 25+80					8'-0"	31.192 25+80					8'-0"	30.534 25+80
8'-0"	31.067 25+80					8'-0"	31.288 25+80					8'-0"	30.630 25+80
8'-0"	31.167 25+80					8'-0"	31.384 25+80					8'-0"	30.726 25+80
8'-0"	31.267 25+80					8'-0"	31.480 25+80					8'-0"	30.822 25+80
8'-0"	31.367 25+80					8'-0"	31.576 25+80					8'-0"	30.918 25+80
8'-0"	31.467 25+80					8'-0"	31.672 25+80					8'-0"	31.014 25+80
8'-0"	31.567 25+80					8'-0"	31.768 25+80					8'-0"	31.110 25+80
8'-0"	31.667 25+80					8'-0"	31.864 25+80					8'-0"	31.206 25+80
8'-0"	31.767 25+80					8'-0"	31.960 25+80					8'-0"	31.302 25+80
8'-0"	31.867 25+80					8'-0"	32.056 25+80					8'-0"	31.398 25+80
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8'-0"	32.067 25+80					8'-0"	32.248 25+80					8'-0"	31.590 25+80
8'-0"	32.167 25+80					8'-0"	32.344 25+80					8'-0"	31.686 25+80
8'-0"	32.267 25+80					8'-0"	32.440 25+80					8'-0"	31.782 25+80
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8'-0"	39.767 25+80					8'-0"	39.640 25+80					8'-0"	38.982 25+80
8'-0"	39.867 25+80					8'-0"	39.736 25+80					8'-0"	39.078 25+80
8'-0"	39.967 25+80					8'-0"	39.832 25+80					8'-0"	39.174 25+80
8'-0"	40.067 25+80					8'-0"							



PLAN
Scale 1"=20'-0"
(Showing location of borings)

○ Cased hole boring
■ Bedrock



PROJECT NO. 8-319101
BUNCOMBE COUNTY
STATION 25+07.35

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
RALEIGH	
W. ASHEVILLE-WEAVERVILLE CORN. over BREVARD RD (Rte 191) & HOMINY CR.	
3 SPAN DECK PLATE GIRDER	
BORINGS	
SCALE AS SHOWN	
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

3-27
110

SPECIAL
DESIGNED BY WTS 10/76 T-GE
DRAWN BY BR DATE 7-13-82
CHECKED BY ALP DATE 10-22-82