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STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY BUNCOMBE COUNTY

BEGINNING STA. 627+84.36, A POINT APPROX. 0.05 MILE NORTHEAST OF BEAR CREEK ROAD, THENCE NORTHEASTERLY TO A POINT APPROX. 0.19 MILE SOUTHWEST OF US 19 & 23 (PATTON AVE.) IN ASHEVILLE. ENDING STA. 135+88.51.

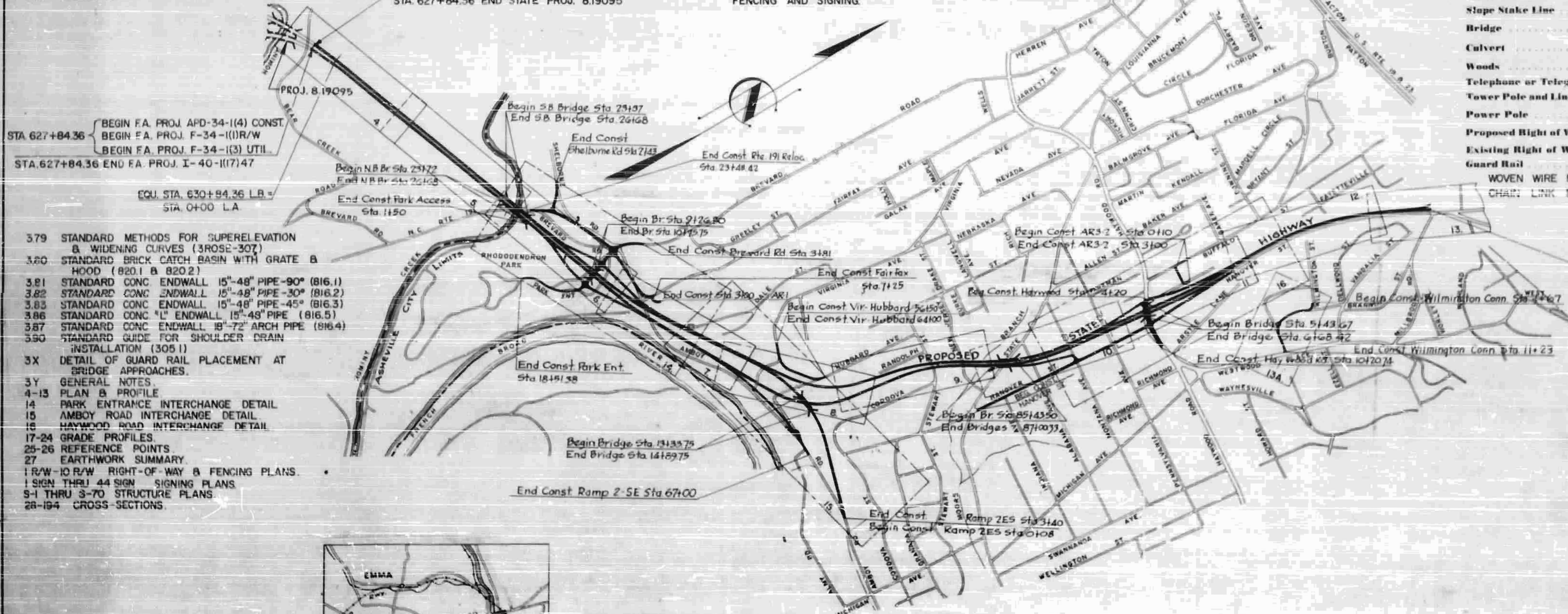
THIS CONTRACT CONSISTS OF GRADING, DRAINAGE, SURFACING, STRUCTURES, FENCING AND SIGNING.

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

PROJECT REFERENCE NO.		
8.3191101		
STATE PROJ.	F.A. PROJ.	
8.3191101	APD-34-1(4)	CONST.
8.1304801	F-34-1(1)	PE. & RW
8.1904802	F-34-1(3)	UTIL.

CONVENTIONAL SIGNS

- County Line
- Township Line
- City or Town Line
- Right of Way Line
- Survey Line
- Property or Exist. Right of Way Line
- Fence
- Proposed Road
- Existing Road
- Railroad
- Control of Access Line
- Slope Stake Line
- Bridge
- Culvert
- Woods
- Telephone or Telegraph Pole
- Tower Pole and Line
- Power Pole
- Proposed Right of Way Marker
- Existing Right of Way Marker
- Guard Rail
- WOVEN WIRE FENCE
- CHAIN LINK FENCE



STA. 135+88.51 END STATE PROJ. 8.3191101 CONST.
END STATE PROJ. 8.1904801 PE. & RW
END STATE PROJ. 8.1904802 UTIL.
STA. 135+88.51 END F.A. PROJ. APD-34-1(4) CONST.
END F.A. PROJ. F-34-1(1) PE. & RW
END F.A. PROJ. F-34-1(3) UTIL.

- 379 STANDARD METHODS FOR SUPERELEVATION & WIDENING CURVES (3ROSE-307)
- 3.80 STANDARD BRICK CATCH BASIN WITH GRATE & HOOD (820.1 & 820.2)
- 3.81 STANDARD CONC. ENDWALL 15"-48" PIPE-90° (816.1)
- 3.82 STANDARD CONC. ENDWALL 15"-48" PIPE-30° (816.2)
- 3.83 STANDARD CONC. ENDWALL 15"-48" PIPE-45° (816.3)
- 3.86 STANDARD CONC. "L" ENDWALL 15"-48" PIPE (816.5)
- 3.87 STANDARD CONC. ENDWALL 19"-72" ARCH PIPE (816.4)
- 3.90 STANDARD GUIDE FOR SHOULDER DRAIN INSTALLATION (305.1)
- 3X DETAIL OF GUARD RAIL PLACEMENT AT BRIDGE APPROACHES.
- 3Y GENERAL NOTES.
- 4-13 PLAN & PROFILE
- 14 PARK ENTRANCE INTERCHANGE DETAIL
- 15 AMBOY ROAD INTERCHANGE DETAIL
- 16 HAYWOOD ROAD INTERCHANGE DETAIL
- 17-24 GRADE PROFILES.
- 25-26 REFERENCE POINTS.
- 27 EARTHWORK SUMMARY.
- 1 R/W-10 R/W RIGHT-OF-WAY & FENCING PLANS.
- 1 SIGN THRU 44 SIGN SIGNING PLANS.
- 5-1 THRU 3-70 STRUCTURE PLANS.
- 28-194 CROSS-SECTIONS.



LENGTH ROADWAY F.A. PROJECT APD-34-1(4) = 2.545 MI
LENGTH STRUCTURES F.A. PROJECT APD-34-1(4) = 0.085 MI
TOTAL LENGTH STATE PROJECT 8.3191101 = 2.630 MI

SCALES

- PLANS 1" = 50'
- PROFILE HORIZONTAL 1" = 50'
- PROFILE VERTICAL 1" = 10'
- CROSS SECTIONS HORIZONTAL 1" = 10'
- CROSS SECTIONS VERTICAL 1" = 10'
- TITLE SHEET 1" = 500'

DESIGN DATA

- ADT 1975 = 28,500 - 34,300
- ADT 1990 = 37,100 - 44,600
- DHV = 2,895 MAX
- D = 60%
- T = 12%
- V = 50 MPH & 60 MPH

NOTE:
THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON PLANS AT THE RAMP FOR GRADE SEPARATIONS. ALL OTHER CONNECTIONS AND ROAD CROSSINGS ARE TO BE ELIMINATED.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

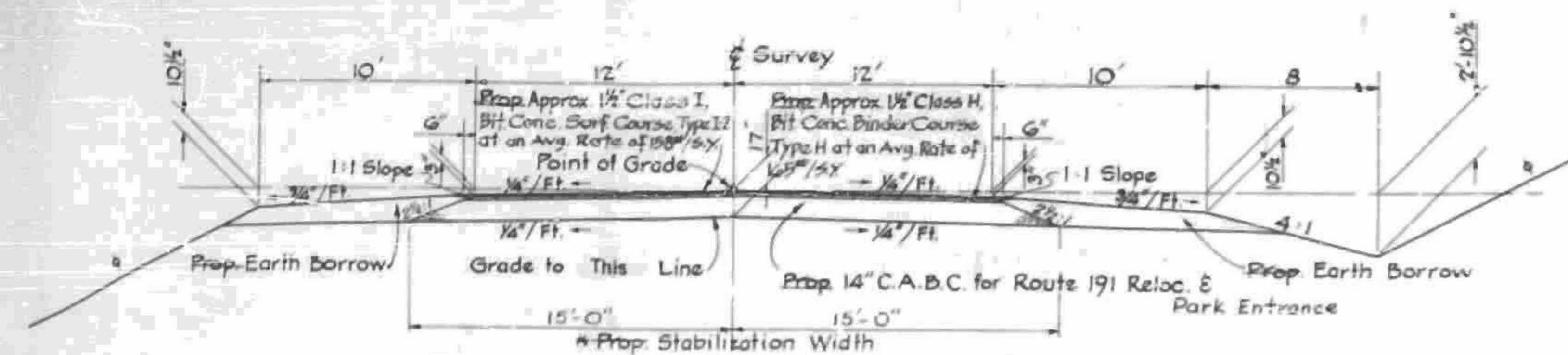
APPROVED: *[Signature]*

DIVISION ENGINEER

DATE

Prepared by Office of
WILBUR SMITH & ASSOCIATES
Columbia, S. C.

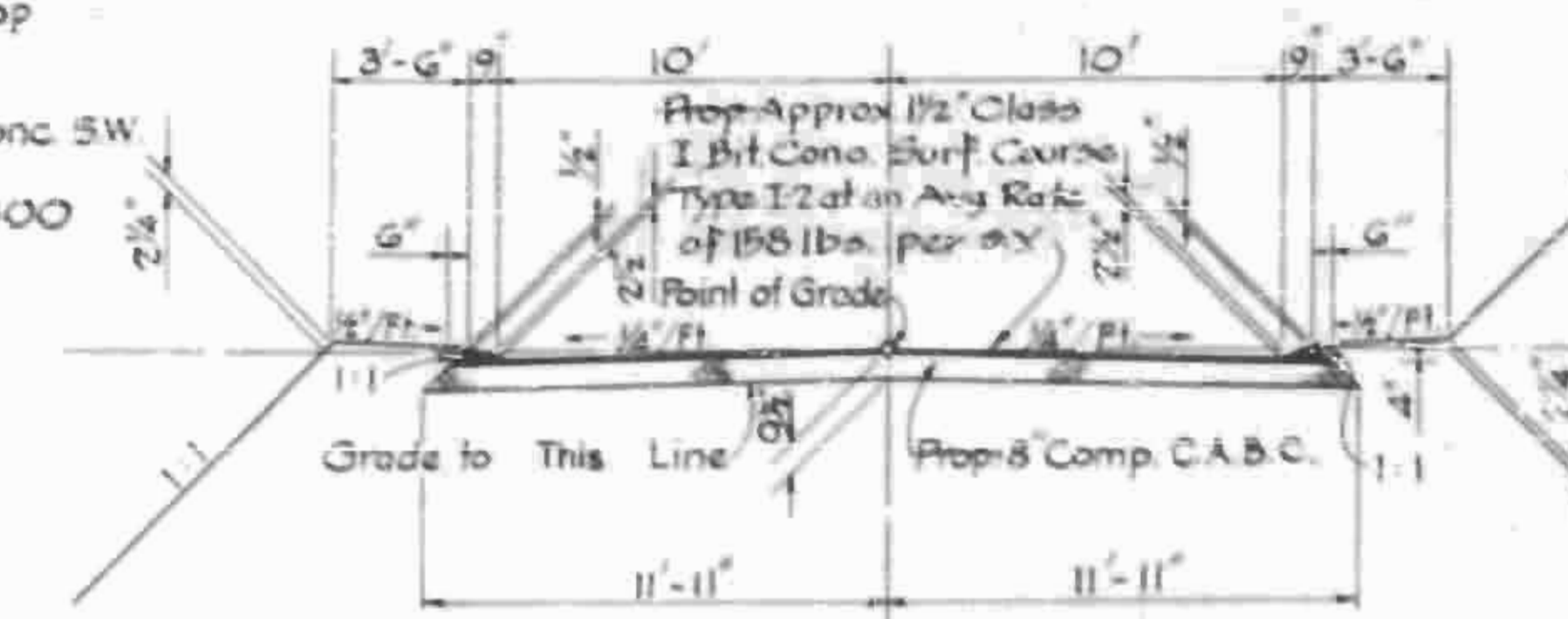
1965 REV.
State Standard Specifications
Approved by Bureau Control.



Use Typical Section No. 8 on Park Entrance and Route 191 Relocation

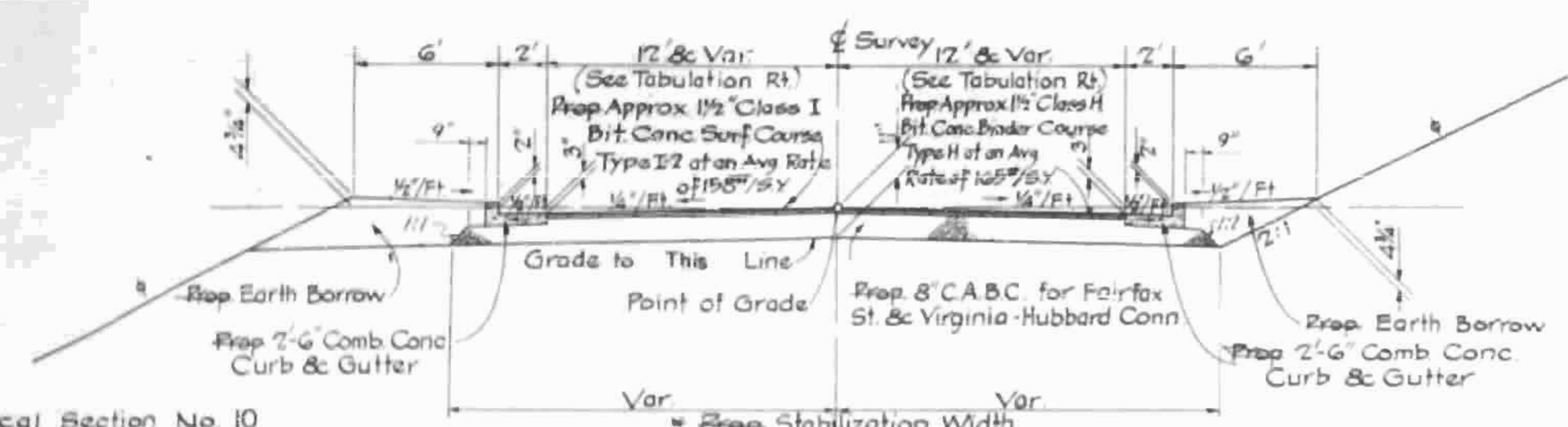
TYPICAL SECTION NO. 8

- * Prop. Stabilization at the rate of 300 lbs. per Sq Yd Mixed with the top 3' of the Subgrade
- + See Plans for Location of 5' & 8' Conc SW
- † For Max. Side Slopes See Std. 3RS-300 & Refer To Cross-Sections.



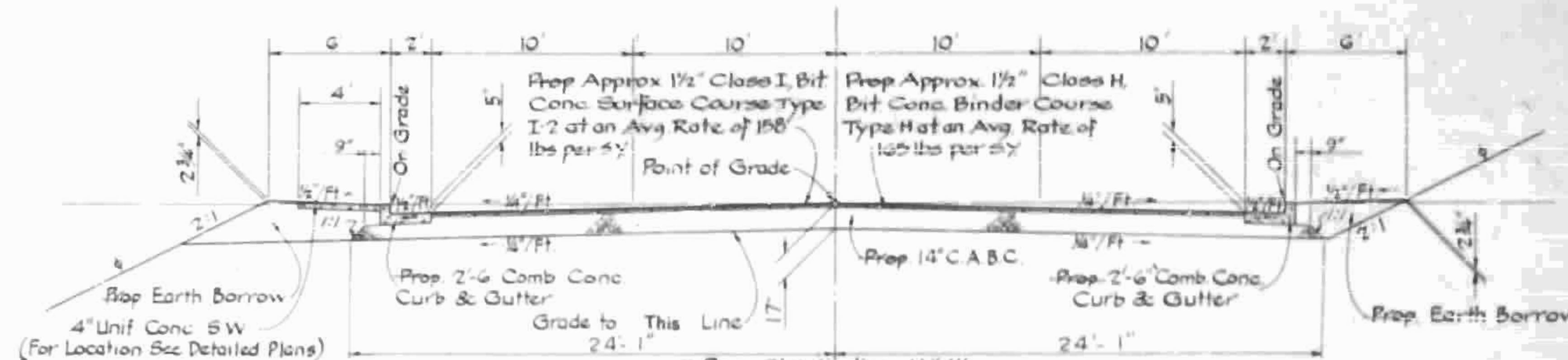
Use Typical Section No. 9 on AR 3-2

TYPICAL SECTION NO. 9



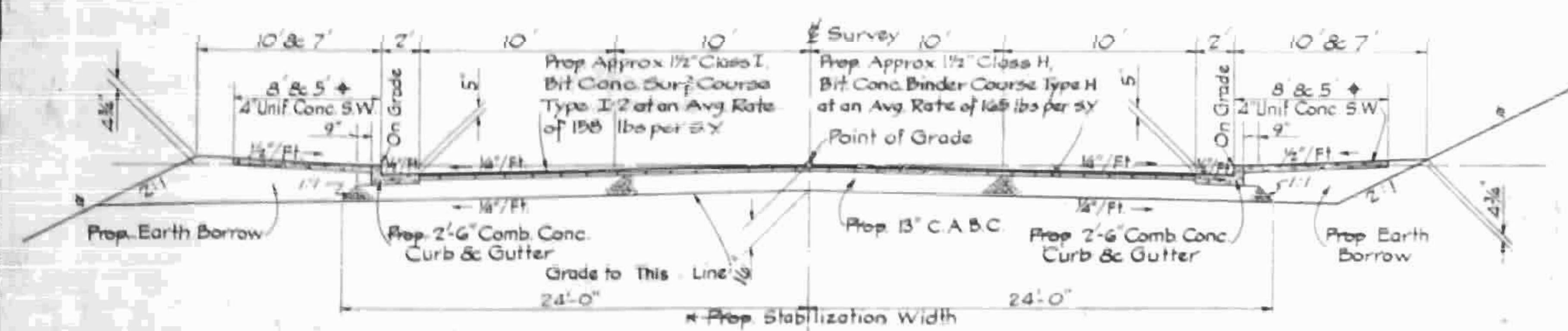
Use Typical Section No. 10 on Fairfax St. Virginia-Hubbard Conn.

TYPICAL SECTION NO. 10



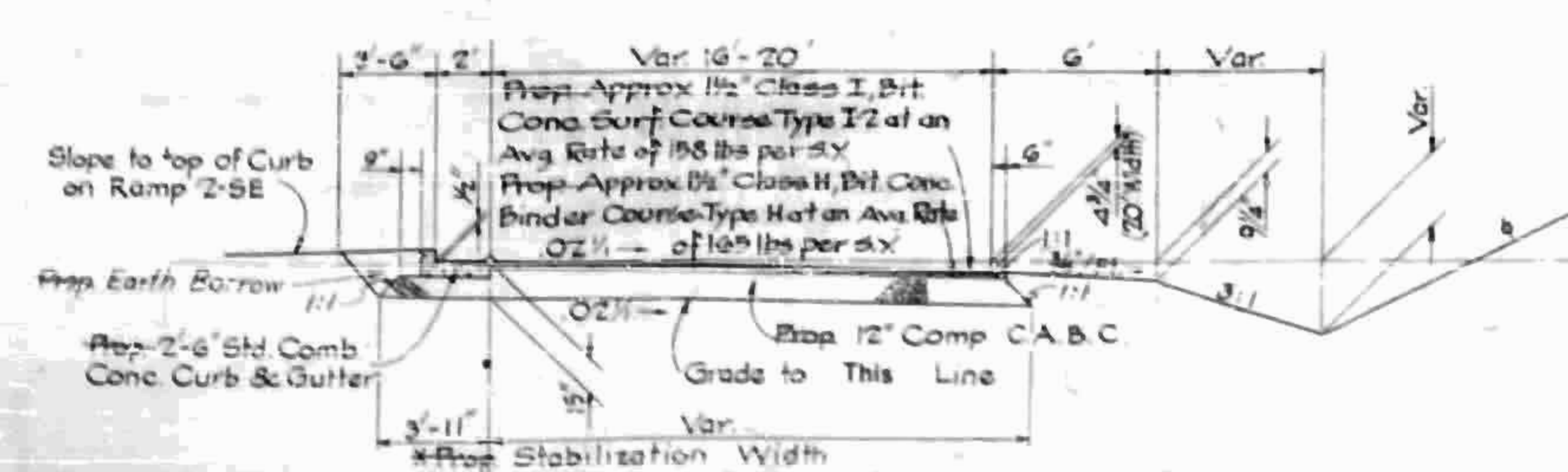
Use Typical Section No. 11 on Brevard Road

TYPICAL SECTION NO. 11



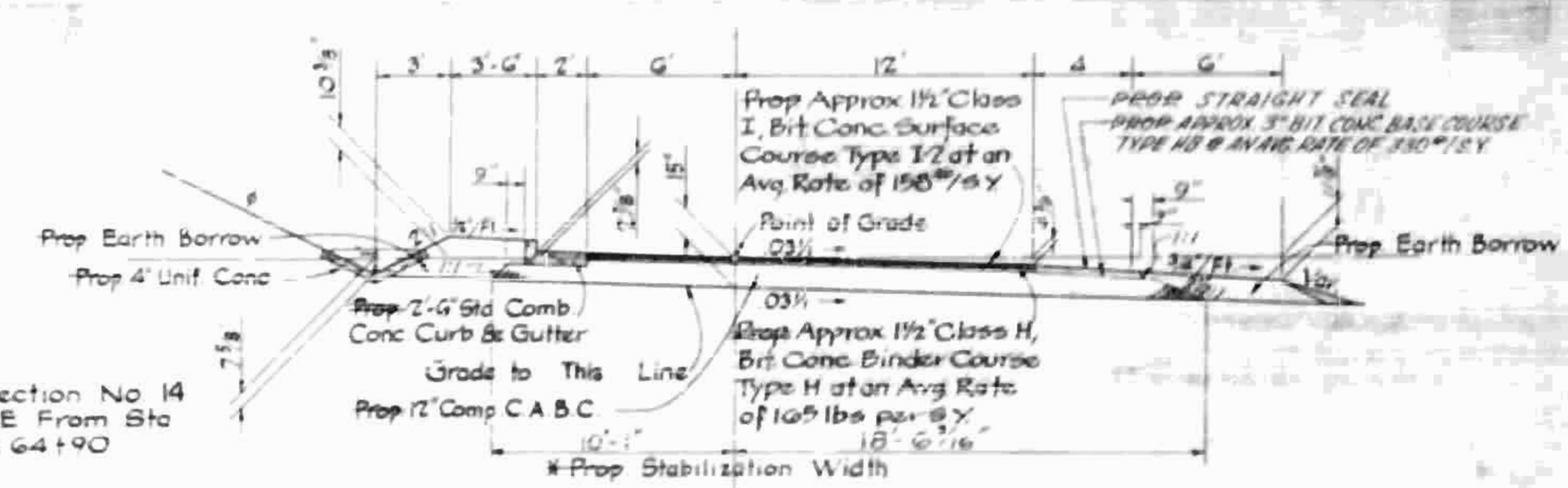
Use Typical Section No. 12 on Haywood Road

TYPICAL SECTION NO. 12



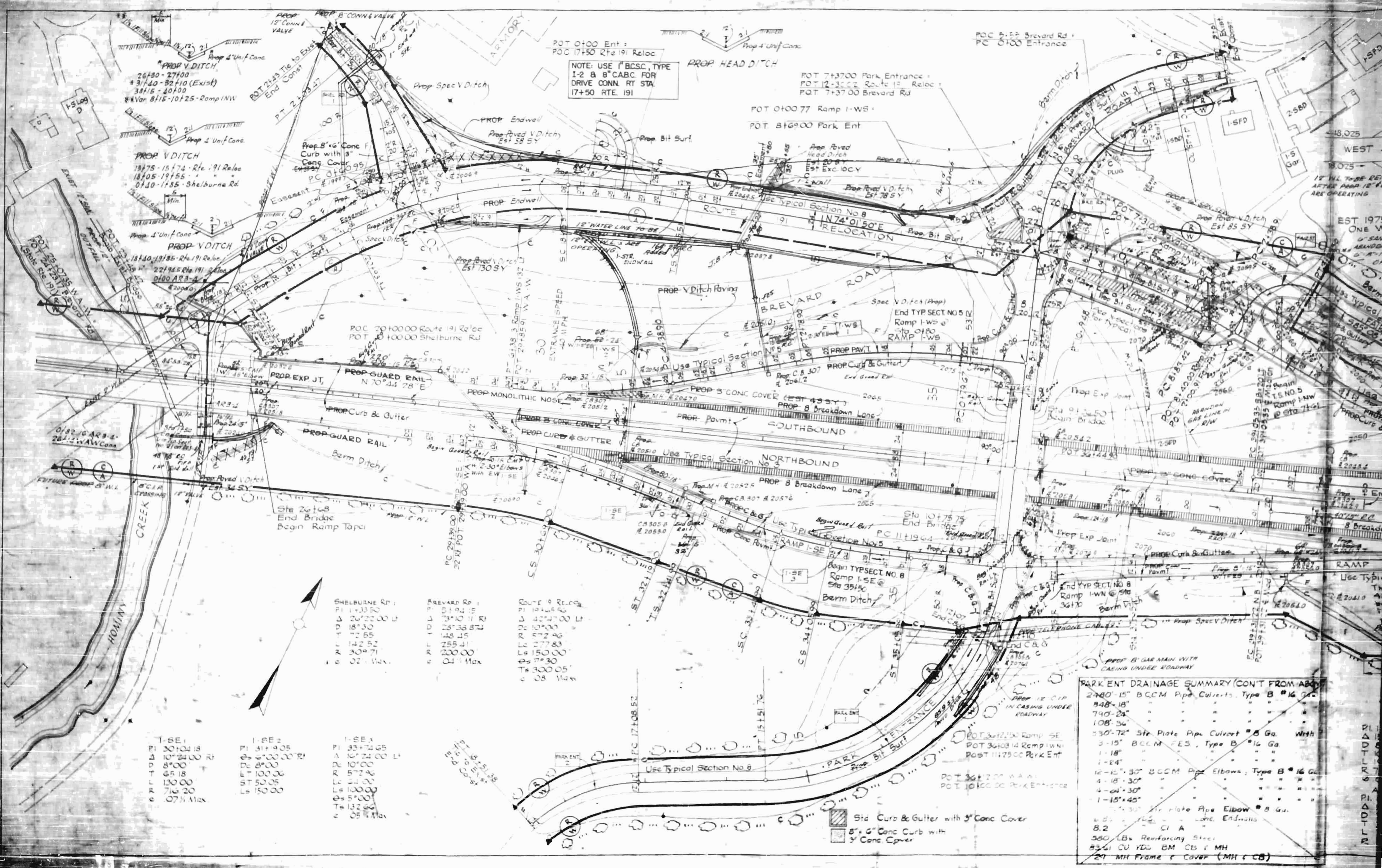
Use Typical Section No. 13 on Ambay Cui-de-Sac

TYPICAL SECTION NO. 13



Use Typical Section No. 14 on Ramp 2-SE From Sta 59+90 to Sta 64+90
Note:
Sta 64+90 to Sta 67+00
Trans. From Typ Sect. No. 14 to
Exist. Typ Sect.
(Refer to Plans for Const.)

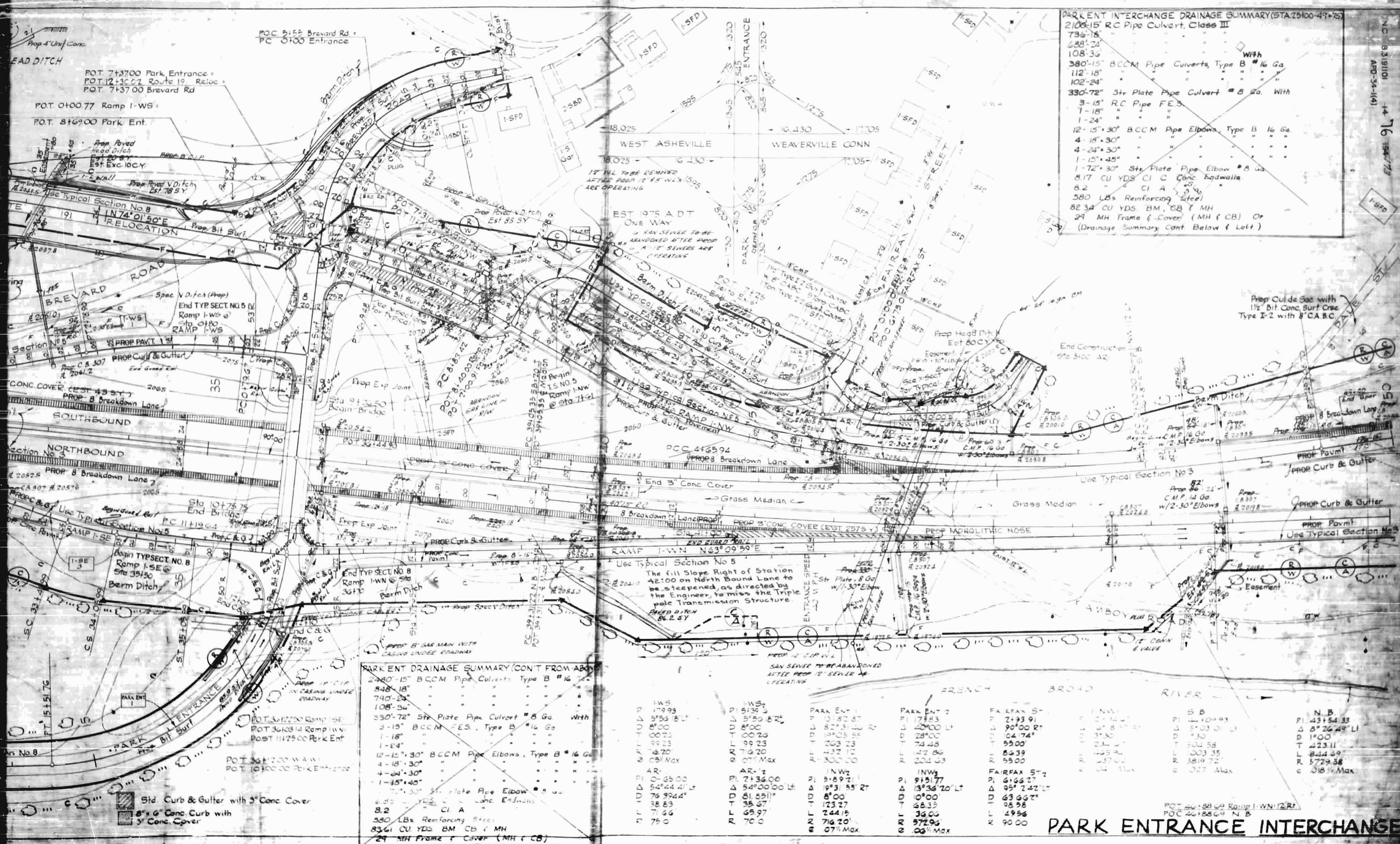
TYPICAL SECTION NO. 14

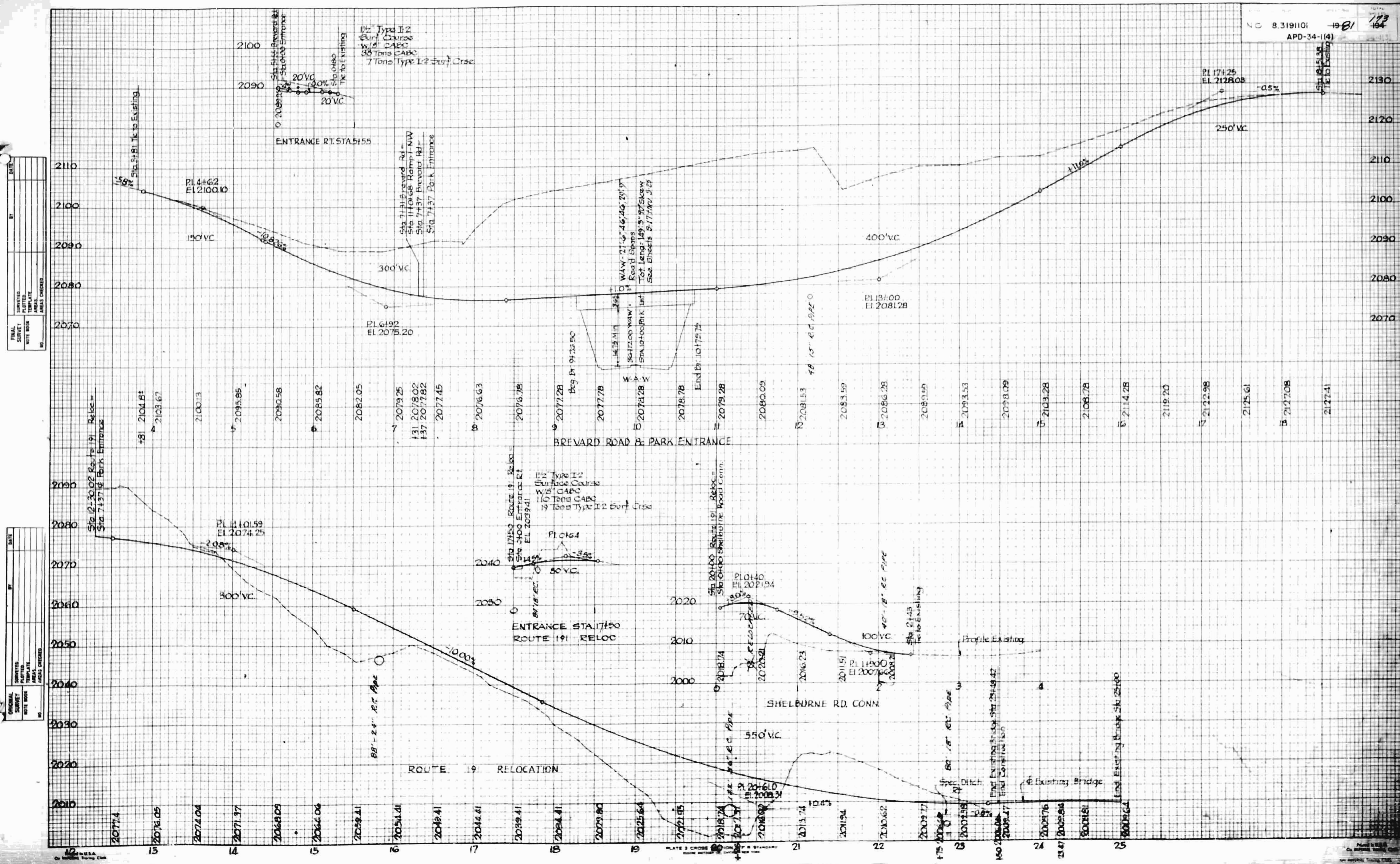


NOTE: USE 1" BCSC, TYPE 1-2 & 8" CABC FOR DRIVE CONN. RT STA. 17+50 RTE 191

PARK ENT DRAINAGE SUMMARY (CONT FROM AB)

240'-15"	BCCM Pipe Culverts, Type B #16 Ga.
948'-18"	
740'-26"	
108'-36"	
530'-72"	Str. Plate Pipe Culvert #8 Ga. With
3'-15"	BCCM FES, Type B #16 Ga.
1'-18"	
1'-24"	
12'-15", 30"	BCCM Pipe Elbows, Type B #16 Ga.
4'-18", 30"	
4'-04", 30"	
1'-15", 45"	
6'-30"	Str. plate Pipe Elbow #8 Ga.
8.2	Cl A
380	LBs Reinforcing Steel
52-61	CU YDS BM CB & MH
21	MH FRAME & COVER (MH & CB)





FENCING PLANS & RIGHT OF WAY PLANS & UTILITIES W. ASH. - WVLE.

BUNCOMBE COUNTY

STATE OF NORTH CAROLINA

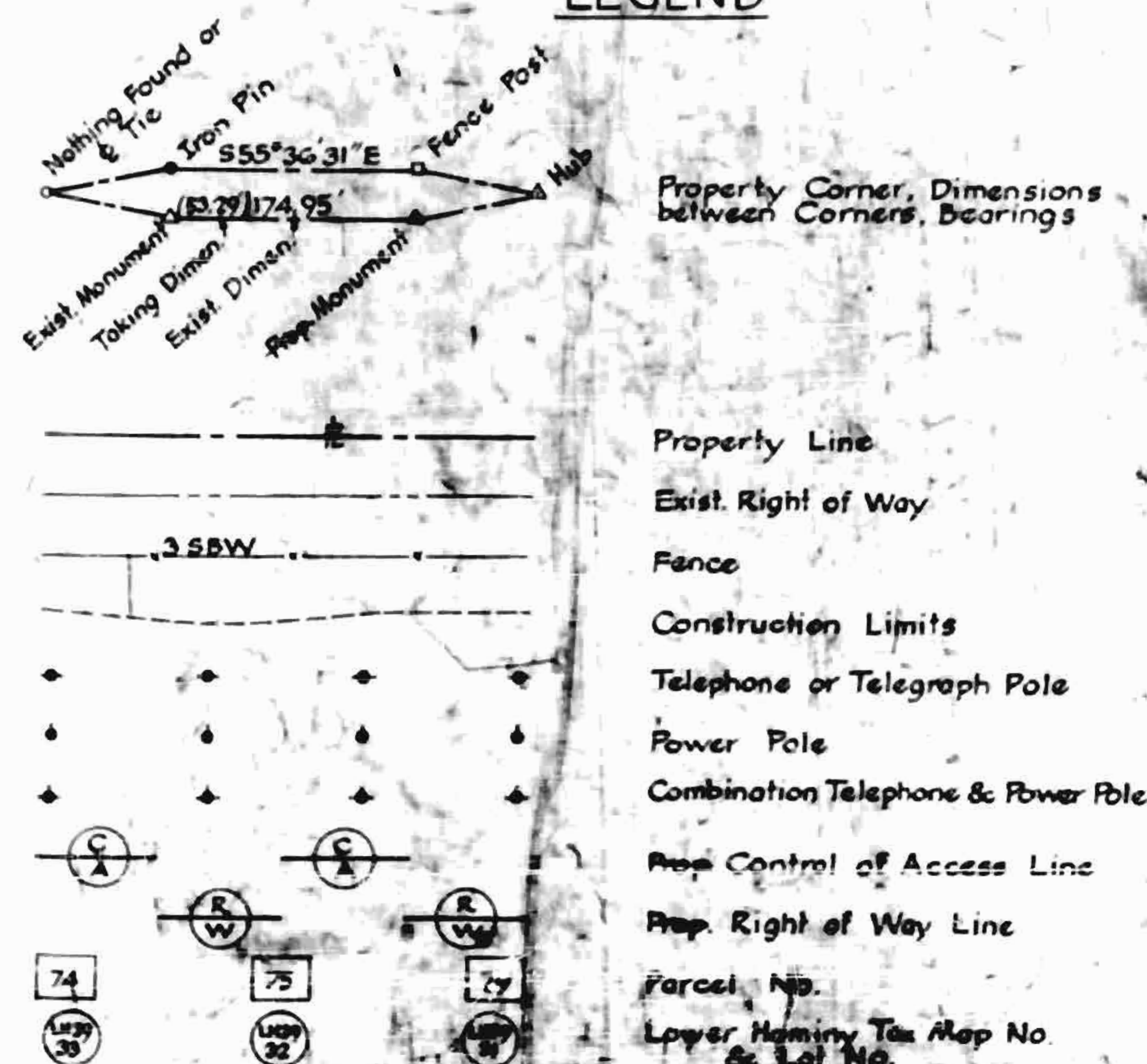
STATE PROJ. NO. 8.1904801

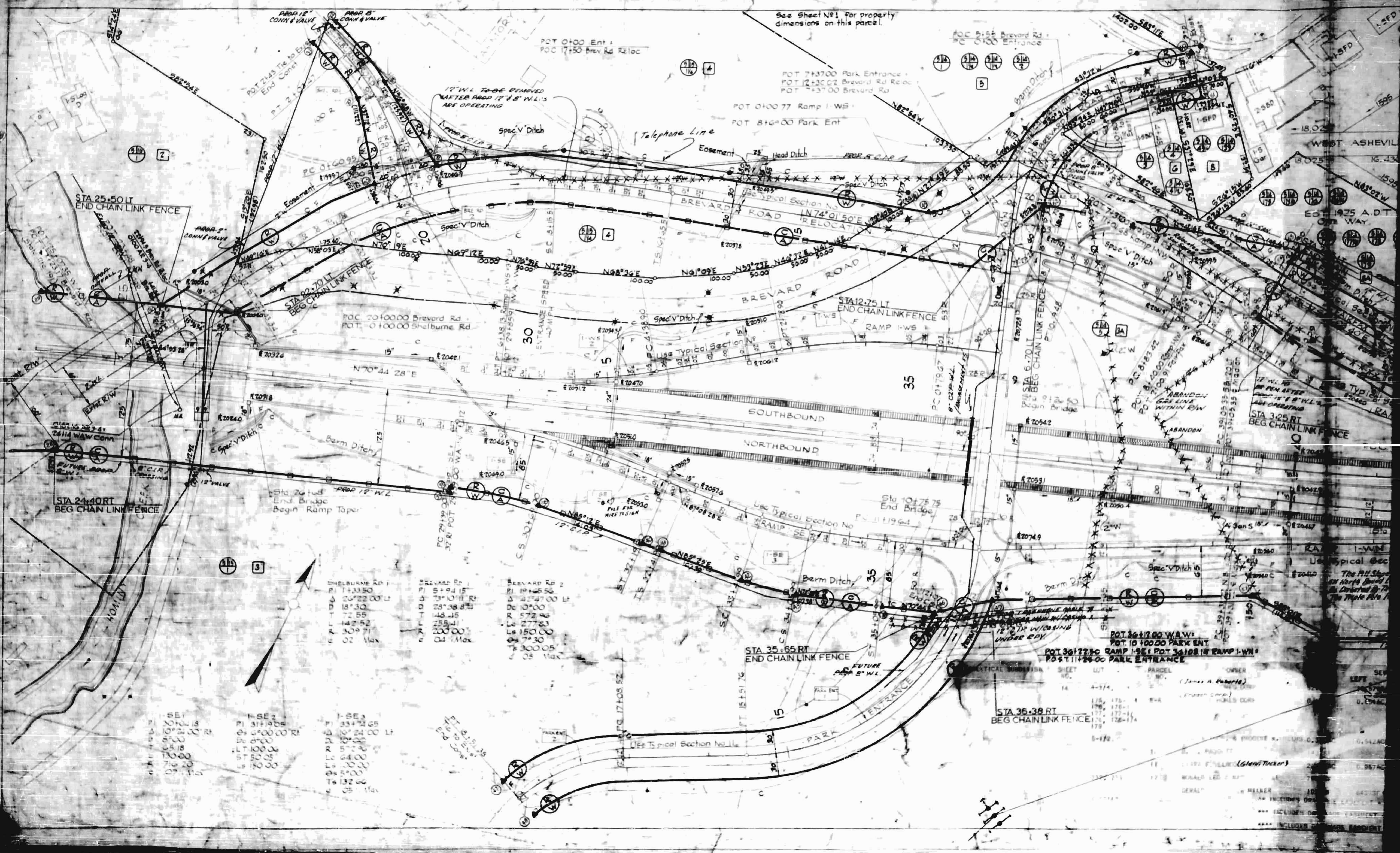
FED. AID PROJ. NO. F-34.1(1)

STATE PROJECT NO. 8.1904801 CONST. 90
N.C. 8.1904801 R/W - 1 R/W
APD-34.1(4) CONST.
F.A. PROJ. F-34.1(1) R/W

NOTE: SHEETS 1 R/W - 10 R/W TO BE USED
FOR RIGHT-OF-WAY AND FENCE CONST.
DO NOT USE THESE PLAN SHEETS
FOR DRAINAGE CONST.

LEGEND





See Sheet N81 for property dimensions on this parcel.

POC 5+55 Brevard Rd
PC 5+00 Entrance

POT 7+3700 Park Entrance
POT 12+3002 Brevard Rd Reloc
POT 7+3700 Brevard Rd

POT 0+00 77 Ramp I-WB
POT 8+6000 Park Ent

12" W.I. TUBE REMOVED
AFTER ROAD 12" W.I. TUBES
ARE OPERATING

spec V Ditch

Telephone Line

Easement

BREVARD ROAD

ROAD RELOCATION

BREVARD ROAD

ROAD RELOCATION

BREVARD ROAD

ROAD RELOCATION

BREVARD ROAD

ROAD RELOCATION

BREVARD ROAD

ROAD RELOCATION

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ROAD RELOCATION

BREVARD ROAD

ROAD RELOCATION

BREVARD ROAD

ROAD RELOCATION

BREVARD ROAD

ROAD RELOCATION

SHELBOURNE RD 1

PI	1+33.50
PT	2+00.00
PC	18+30.00
PT	72.55
LC	142.52
PT	309.71
PC	02.144

BREVARD RD 1

PI	5+94.15
PT	7+10.11
PC	23+38.83
PT	143.15
LC	255.41
PT	200.00
PC	01.144

BREVARD RD 2

PI	10+46.56
PT	12+47.00
PC	07.00
PT	572.86
LC	277.83
PT	150.00
PC	03.144

1-SE1

PI	10+46.56
PT	12+47.00
PC	07.00
PT	572.86
LC	277.83
PT	150.00
PC	03.144

1-SE2

PI	31+19.09
PT	33+24.00
PC	07.00
PT	572.86
LC	277.83
PT	150.00
PC	03.144

1-SE3

PI	33+24.00
PT	35+24.00
PC	07.00
PT	572.86
LC	277.83
PT	150.00
PC	03.144

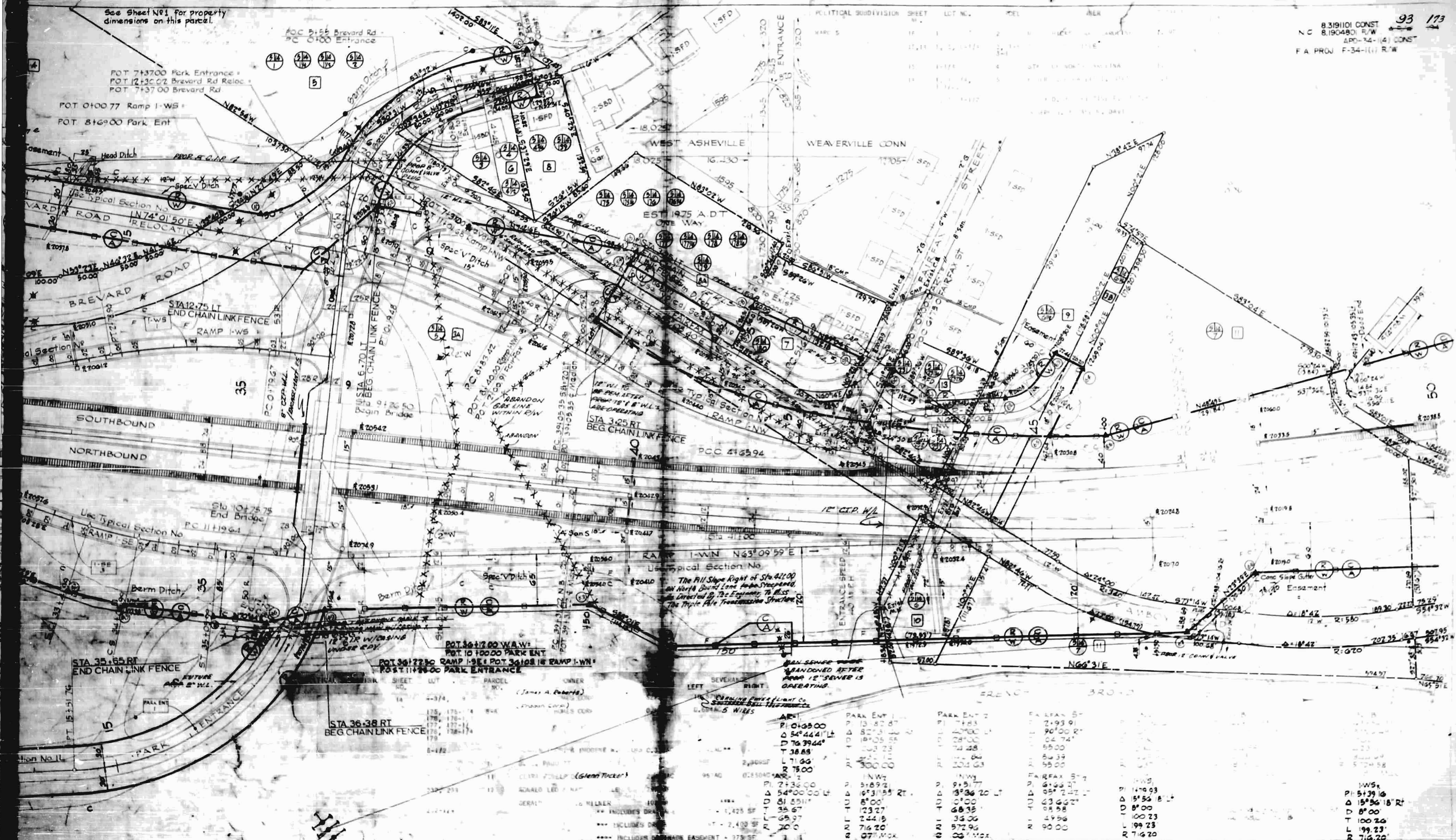
POT 36+17.00 WAWI
POT 10+0000 PARK ENT
POT 36+17.00 RAMP I-WB
POT 36+17.00 RAMP I-WB

STA 36.38 RT
BEG CHAIN LINK FENCE

SHEET	UT	PARCEL	OWNER
14	4-3/4	8-4	(James A. Roberts)
15	175-1	175-1	(James A. Roberts)
16	175-1	175-1	(James A. Roberts)
17	175-1	175-1	(James A. Roberts)
18	175-1	175-1	(James A. Roberts)

STA 36.38 RT
BEG CHAIN LINK FENCE

STA 36.38 RT
BEG CHAIN LINK FENCE



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)

INDEX OF THE AS BUILT PLANS

SHEET NO.

- 1 TITLE SHEET
- 2 GEN. DWG. BRIDGE STA. 25+07.35
NORTH BOUND & SOUTH BOUND
- 3-15 PLANS & DETAILS - SUBSTRUCTURE
- 16-28 PLANS & DETAILS - SUPERSTRUCTURE
- 29-30 PILE RECORDS
- 31 SUMMARY OF QUANTITIES - 25+07.35
- 32 GEN. DWG. BRIDGE STA. 36+12.00
- 33-40 PLANS & DETAILS - SUBSTRUCTURE
- 40-43 PLANS & DETAILS - SUPERSTRUCTURE
- 44 GEN. DWG. BRIDGE STA. 63+53.34
- 45-55 PLANS & DETAILS - SUBSTRUCTURE
- 56-62 PLANS & DETAILS - SUPERSTRUCTURE
- 63 SUMMARY OF QUANTITIES - 36+12 & 63+53.34
- 64 GEN. DWG. BRIDGE STA. 77+82.83
- 65-70 PLANS & DETAILS SUBSTRUCTURE
- 71-72 SUPERSTRUCTURE & BORINGS
- 73 GEN. DWG. BRIDGE STA. 86+21.69
- 74-85 PLANS & DETAILS SUBSTRUCTURE
- 86-95 PLANS & DETAILS SUPERSTRUCTURE
- 96 SUMMARY OF QUANTITIES 77+82.83 & 86+21.69
- 97 GEN. DWG. BRIDGE STA. 102+76.20
- 98-105 PLANS & DETAILS - SUBSTRUCTURE
- 106-108 PLANS & DETAILS SUPERSTRUCTURE
- 109 SUMMARY OF QUANTITIES - 102+76.20
- 110 SUMMARY OF QUANTITIES OF FINAL
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	DIVISION ENGINEER
PAUL R. ROBINSON	RESIDENT ENGINEER
J.W. MILLS, JR.	ASST. RES. ENGR.
J.C. GOSSETT	INSPECTOR III
E.F. COLE	INSPECTOR III
J.C. BUCKNER	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:

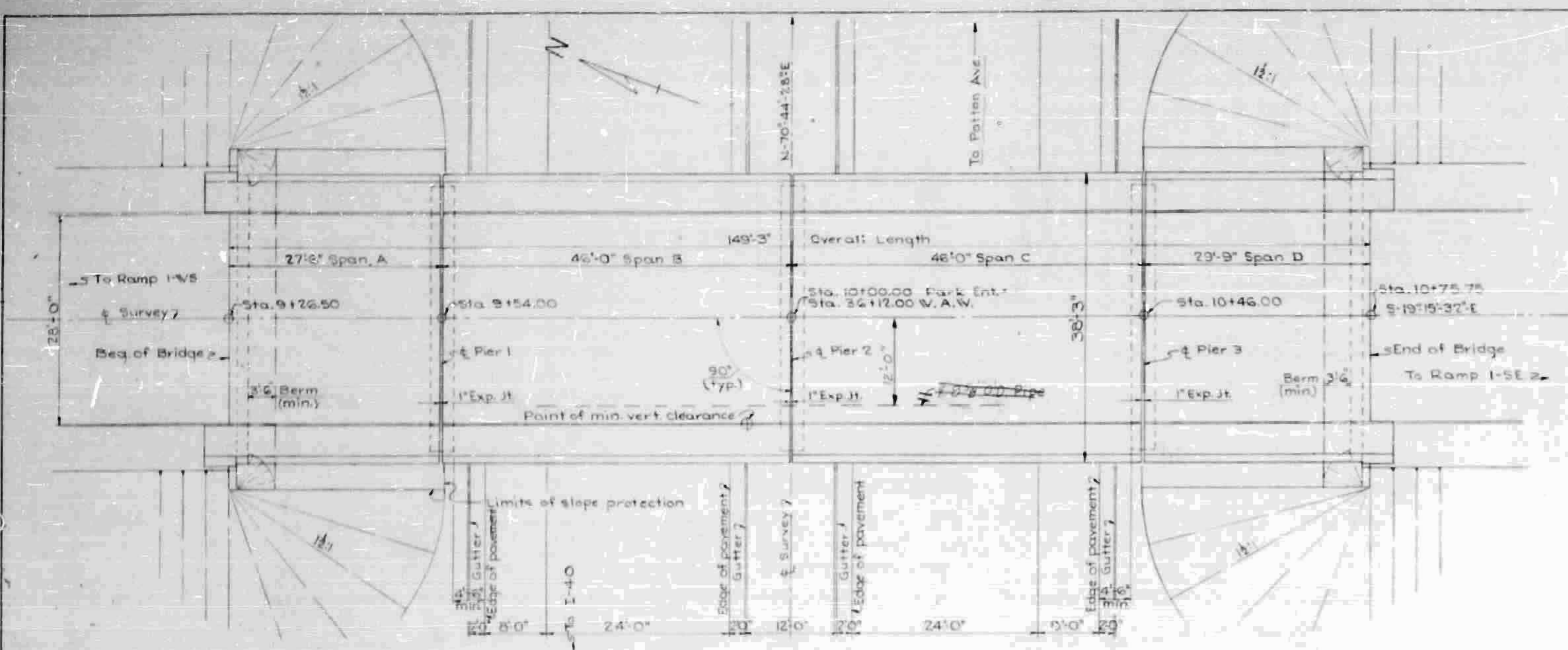
STRUCTURES FIELD BOOK NO.	BRIDGE STATION	
S-1	BRIDGE STATION	25+07.35 NORTH BOUND
S-2	BRIDGE STATION	25+07.35 SOUTH BOUND
S-3	BRIDGE STATION	36+12.00 & SURVEY
S-4	BRIDGE STATION	63+53.34 NORTH BOUND (2-ES)
S-5	BRIDGE STATION	77+82.83 NORTH BOUND
S-6 & 7	BRIDGE STATION	86+21.69 & SURVEY
S-8	BRIDGE STATION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

GENERAL NOTES

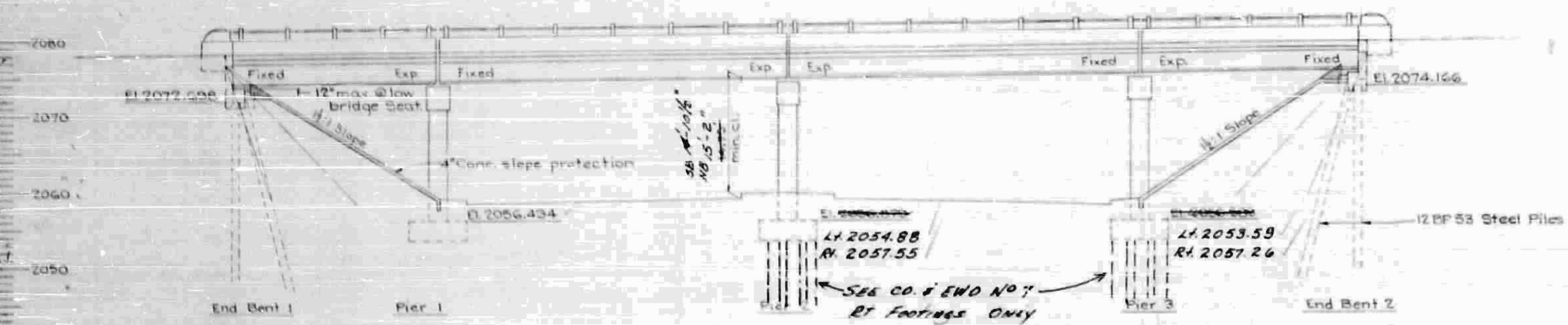
- Except as shown, notes on Sheet "S-N" apply.
- Specifications: Standard Specifications for Roads and Structures, North Carolina State Highway Commission, Raleigh, North Carolina, Jan. 1, 1965.
- Design Load: H15-S12-44 as specified in current AASHTO Specifications.
- Design Stresses: Reinforcing Steel, $f_s = 20,000$ psi.
Structural Steel, $f_s = 20,000$ psi.
Concrete, $f_c = 3,000$ psi.
 f_c deck, 1,100 psi.
 f_c other, 200 psi.
Shear, 90 psi, $n = 10$.
- Foundation Loads: Computed Foundation Load for Piers 1-3: 3.5 tons per ft.
- Name Plates: For Details, see Drawing entitled, "Standard Approach Curb and Name Plates."
- Borings: For Boring Data, see Sheet S-18.
- Piling: Piling to be Standard 12BP53 Steel Piles see Specifications. Maximum computed pile load 20 tons each. Piles shall be driven to a minimum bearing capacity of 20 tons ea. The contractor shall be responsible for determining lengths of piles required.
- Work Schedule: Work to not be started on piers 1, 2 & 3 until after the roadway section has been excavated.
- Berm Excavation: Crosshatched area in front of End Bents #1 & #2 shall be excavated by the structure contractor. See Spec. Prov.
- Surface Finish: Exposed surfaces to be given a Class I surface finish in accordance with the Specification.
- Excavation: Unclassified Structure Excavation for Piers 1-3 to be measured from the surface of the Roadway Cut.



PLAN
(3 Simple Spans)
Scale: 1"=10'

Approx. Ground Line along Survey

RI Sta. 13+00.00
Elev. 2081.28
400' V.C.
+1.00% to +11.00%



ELEVATION
Scale: 1"=10'

ESTIMATE OF QUANTITIES							
	Concrete Class A	Reinf. Steel	Structural Steel (Approx.)	Uncl. Str. Excav.	Steel Piles 12BP53	1" Bar Metal Handrail	4" Conc. Slope Prot.
	C.Y.	Lbs.	Lbs.	C.Y.	L.F.	L.F.	S.Y.
General Plan & Elevation							
Pile Record & Boring							
End Bents 1 & 2	19.2	4,518			269.00		222.22
Piers 1, 2 & 3	9672.1	16,148		147.18	185.25		
Framing Plan							
Deck	202.1	33,544	99,400				
Constr. Elevations							
Handrail						294	
Totals	3104.2	54,508	99,400	147.18	185.25	294	222.22

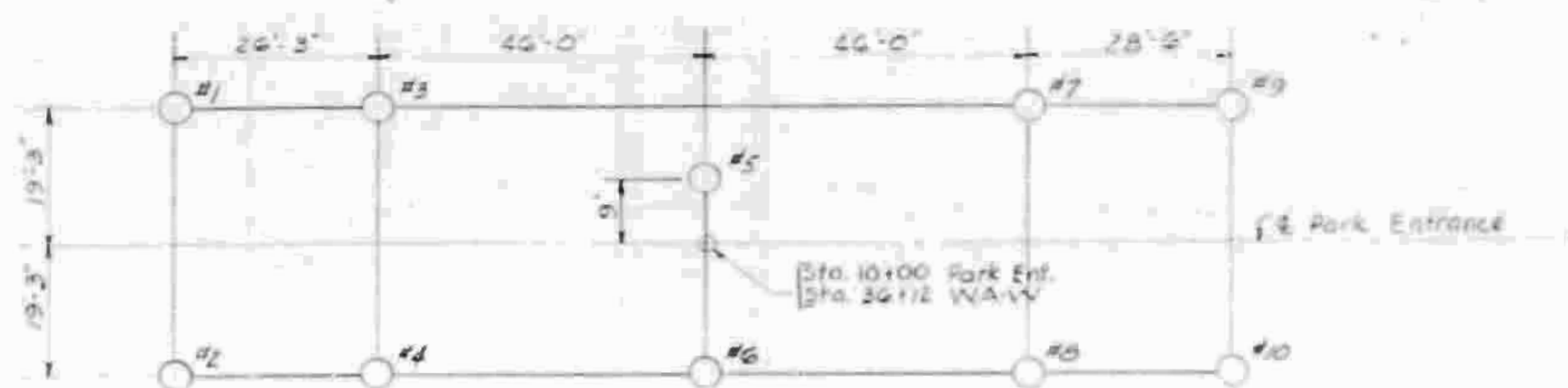
X ADDED COMP 523.72

I HEREBY CERTIFY THAT THIS STRUCTURE WAS BUILT
ACCORDING TO PLANS EXCEPT AS NOTED HEREIN
[Signature]
RESIDENT ENGINEER

PROJECT NO. 8,312,101
RUNCOMBE COUNTY
STATION: 36+12.00

STATE OF NORTH CAROLINA			
STATE HIGHWAY COMMISSION			
RALEIGH			
GENERAL PLAN & ELEVATION			
PARK ENTRANCE			
OVER			
WEST ASHEVILLE - WEAVERVILLE			
CONNECTOR			
S-32		110	

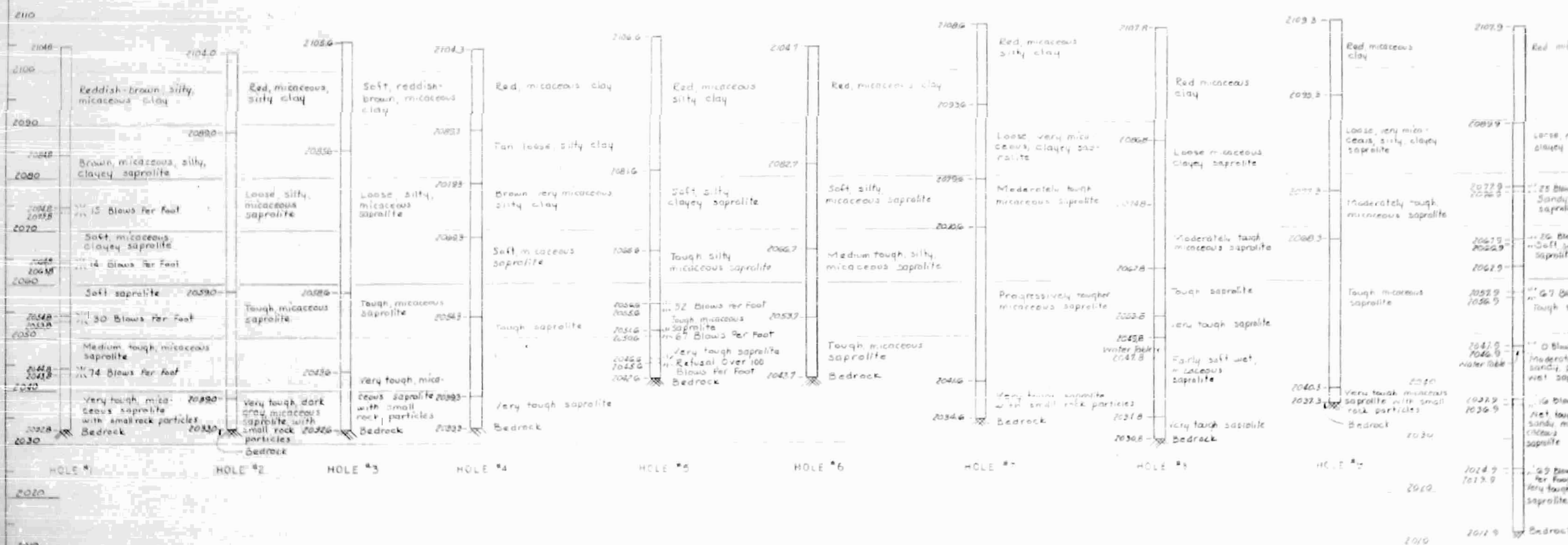
SPECIAL	DESIGNED BY	DATE
	DRAWN BY	DATE
	TRACED BY	DATE
	CHECKED BY	DATE



Pile No.	Off	Tip	Length of	Calculated
	Elevation	Elevation	Pile in Place	Bearing
	As Shown	As Shown		Capacity, lbs.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

PILE LOCATIONS

NOTE: This sheet does not replace other records on piles. It is to be kept by the Resident Engineer. After all piles have been driven, the Resident Engineer shall record the tip of pile elevation as driven, length of pile in place, and calculated bearing capacity of each pile. One copy of this sheet with above information shall be returned to the Bridge Engineer so that the record may be placed with the original plans. Length of pile in place shown herein is the actual length of pile in the finished structure below the cut-off elevation.

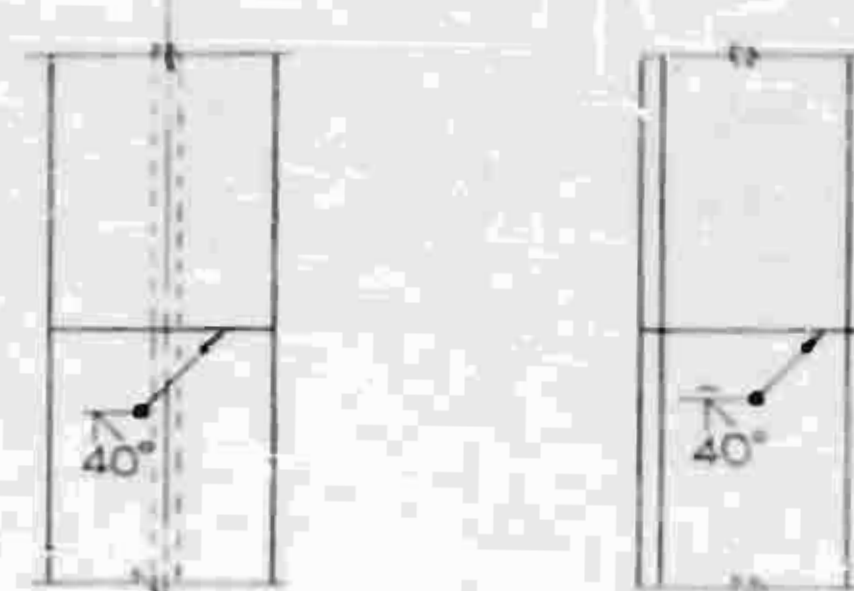


PROJECT No. 8-319101
BUNCOMBE COUNTY
STATION 36+12.00

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
PILE RECORD & BORINGS

SPECIAL DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

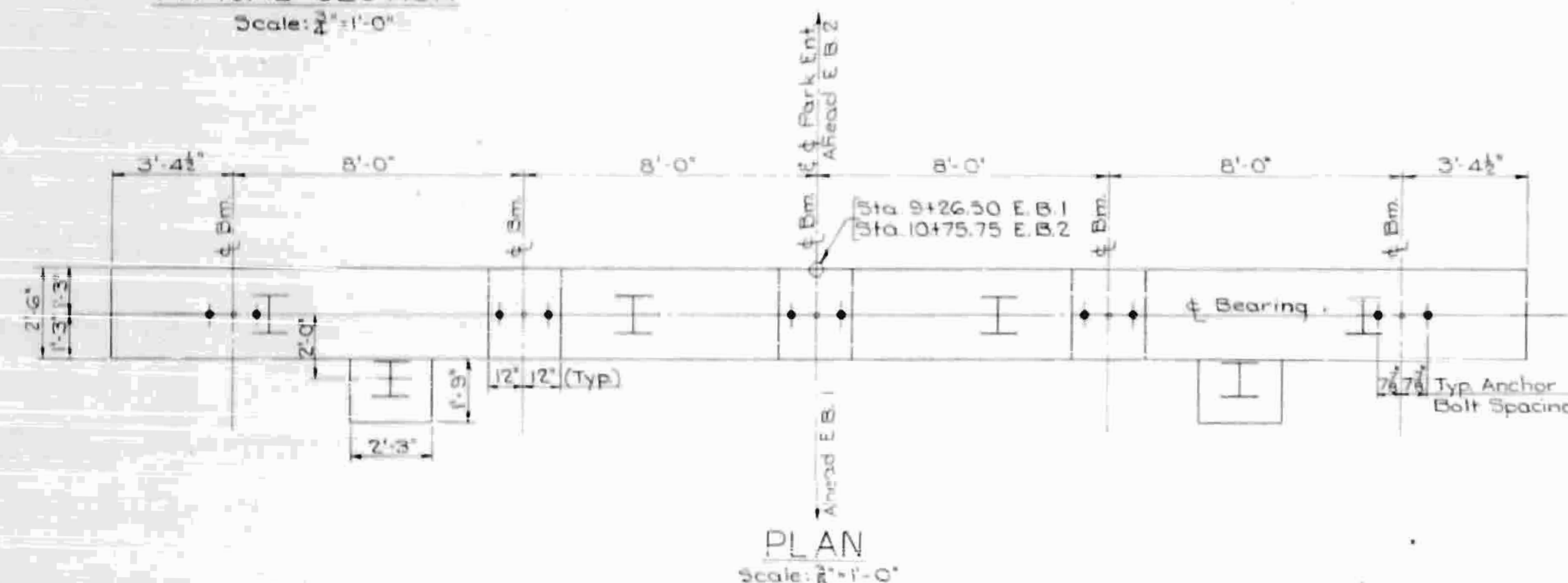
5-33
110



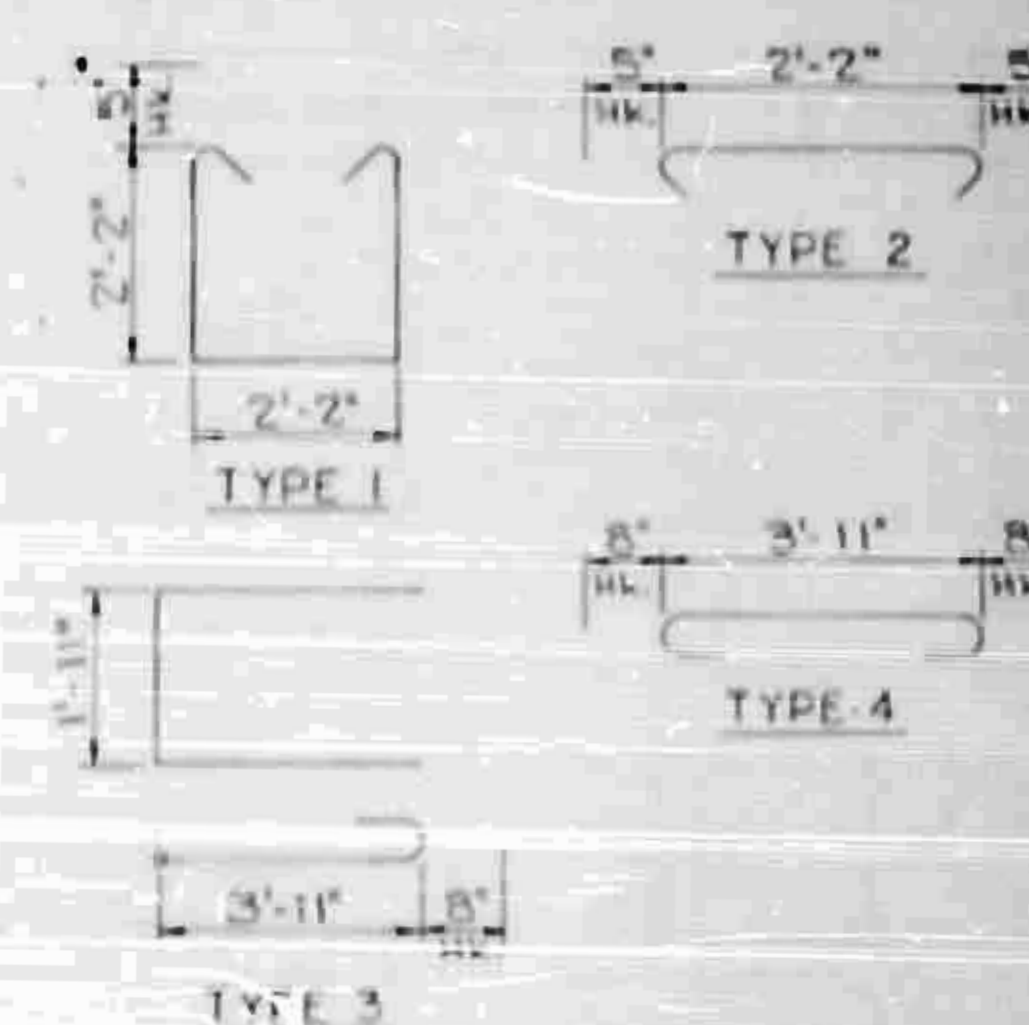
PILE SPLICE DETAIL
Scale: 1" = 1'-0"

Note:
Bevel web & flanges
on top section of pile

TYPICAL SECTION
Scale: 3" = 1'-0"

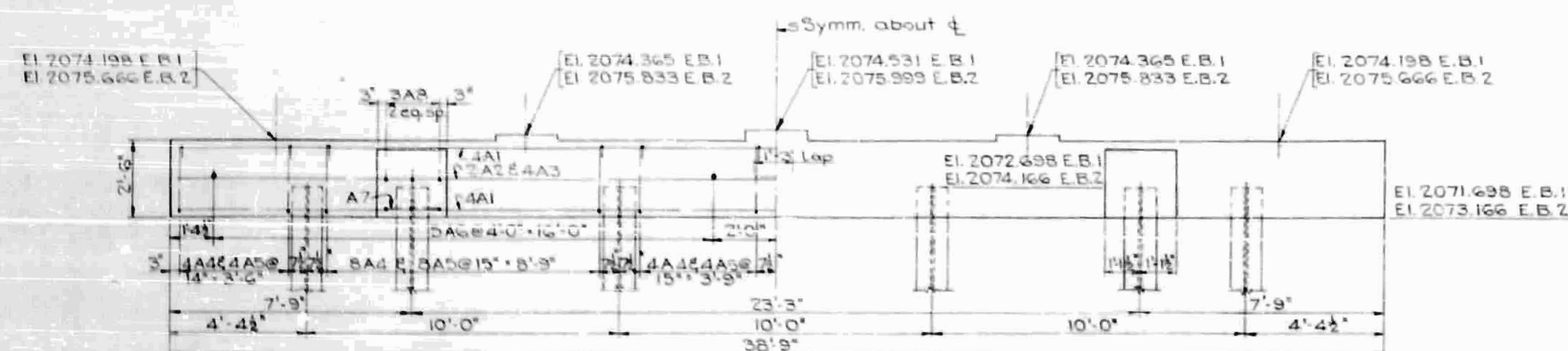


PLAN
Scale: $\frac{1}{4}'' = 1' - 0''$



BILL OF MATERIAL

BILL OF MATERIAL		E.B.	E.B.
Concrete, Class A	CY	9.8	9.8
Reinforcing Steel	Lbs.	2259	2259
6-12 BP57 Steel Piles	L.F.	14825	14825



ELEVATION
Scale: $\frac{3}{8}'' = 1'-0''$

PROJECT NO. 8.3191101
BUNCOMBE COUNTY
STATION: 36+12.00

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH

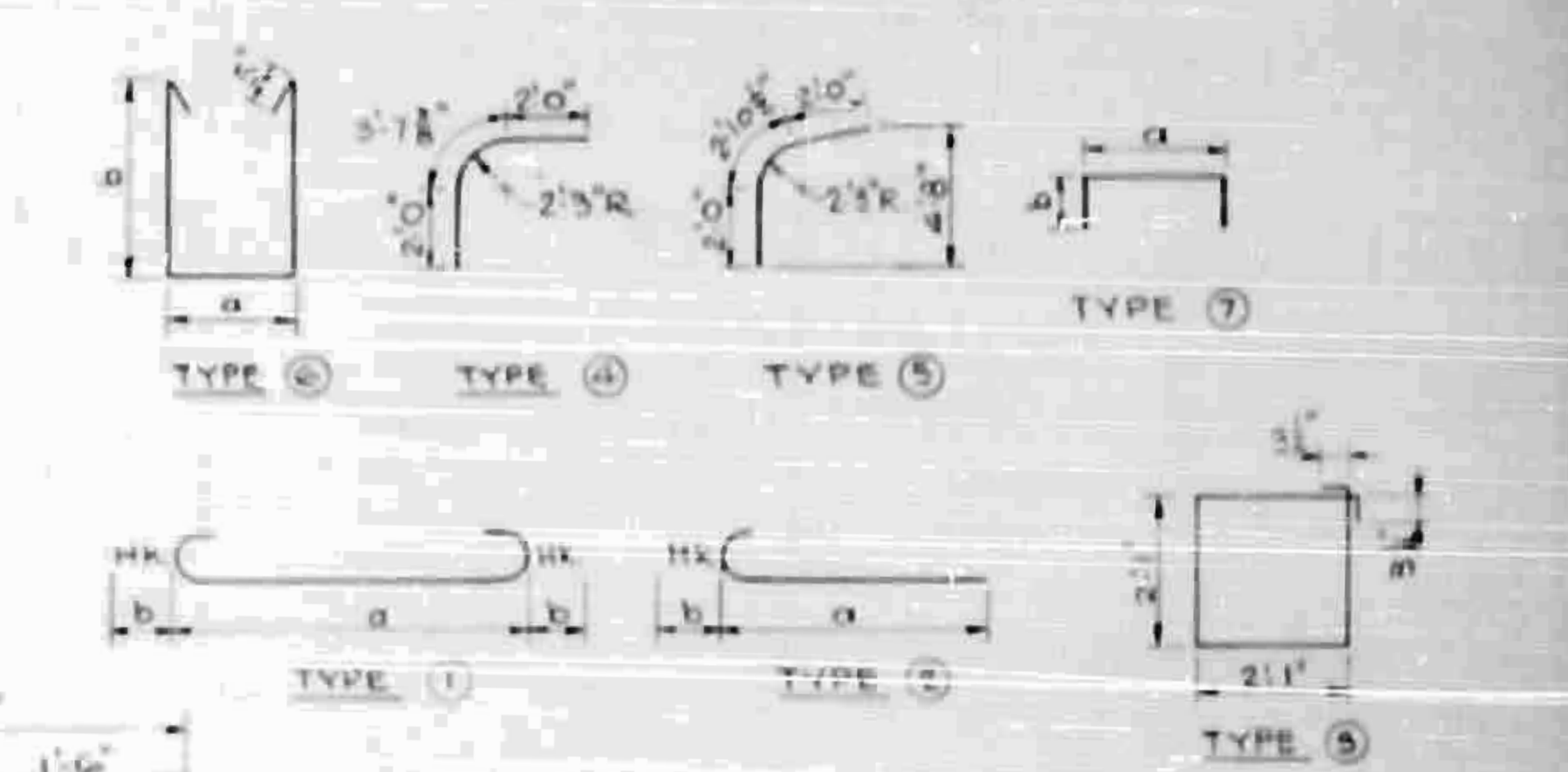
END BENTS 1 & 2

S-34

116

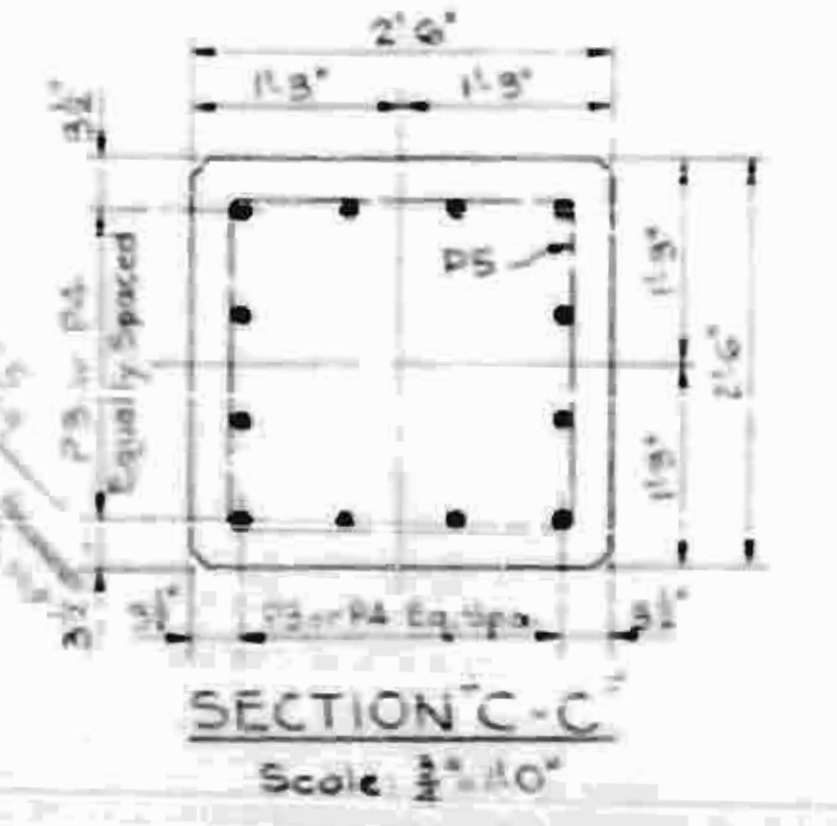
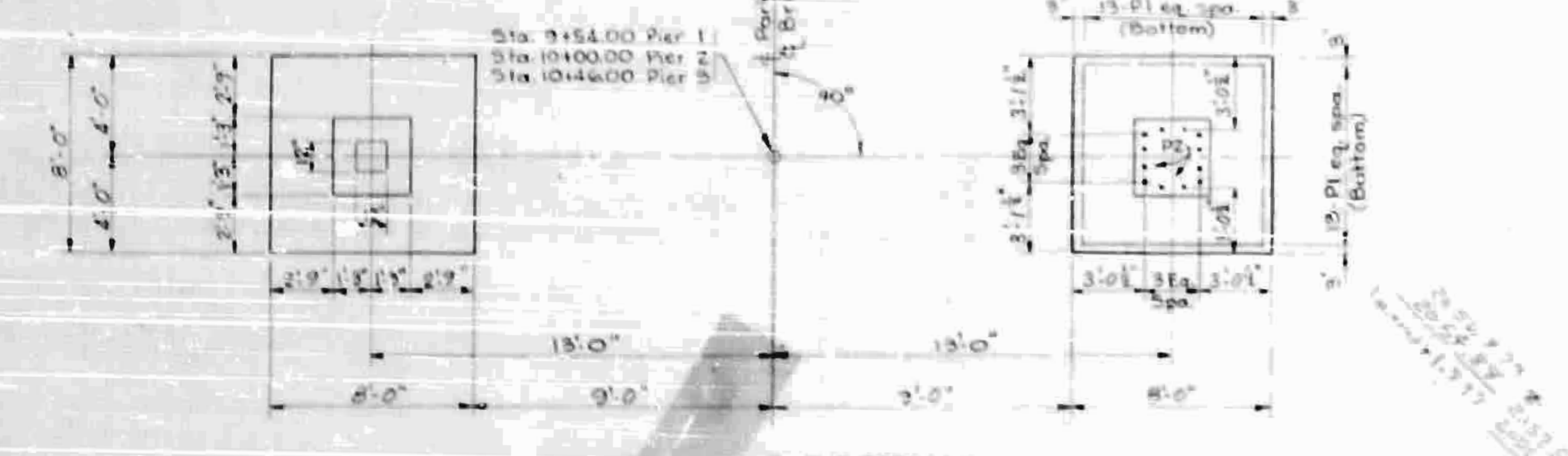
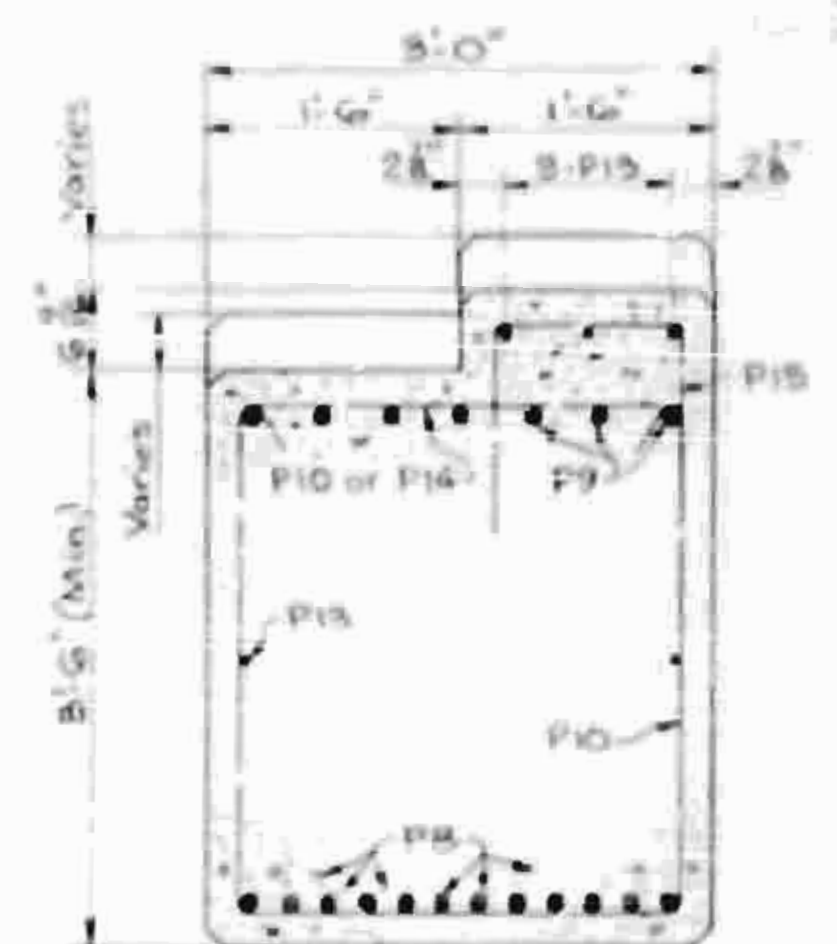
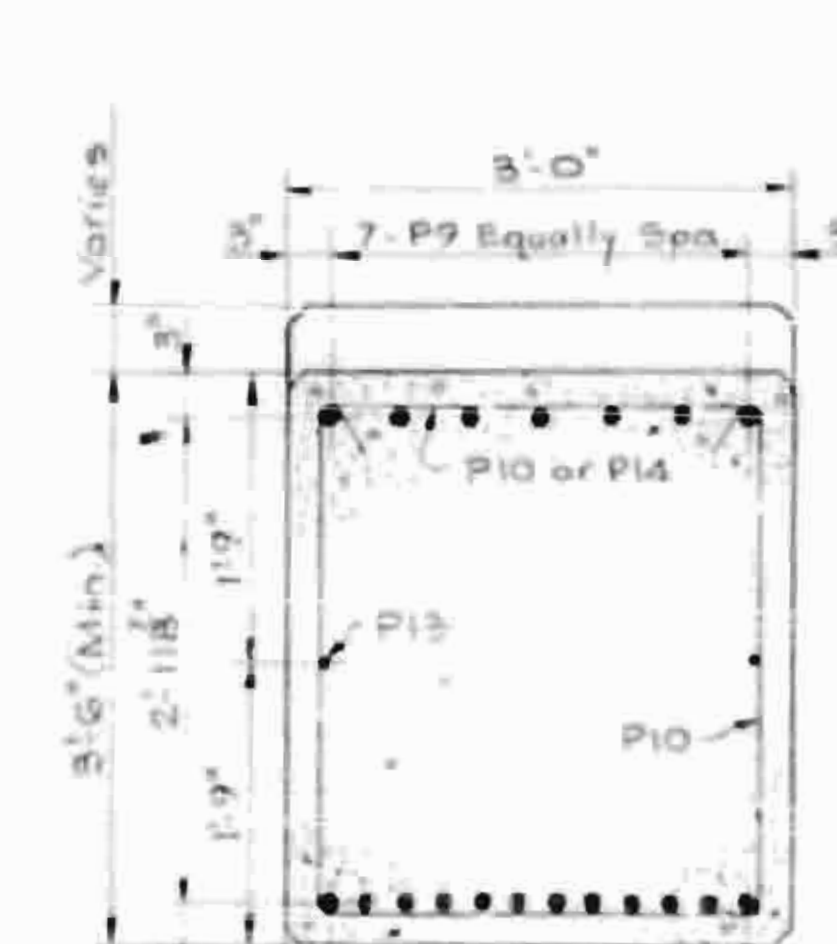
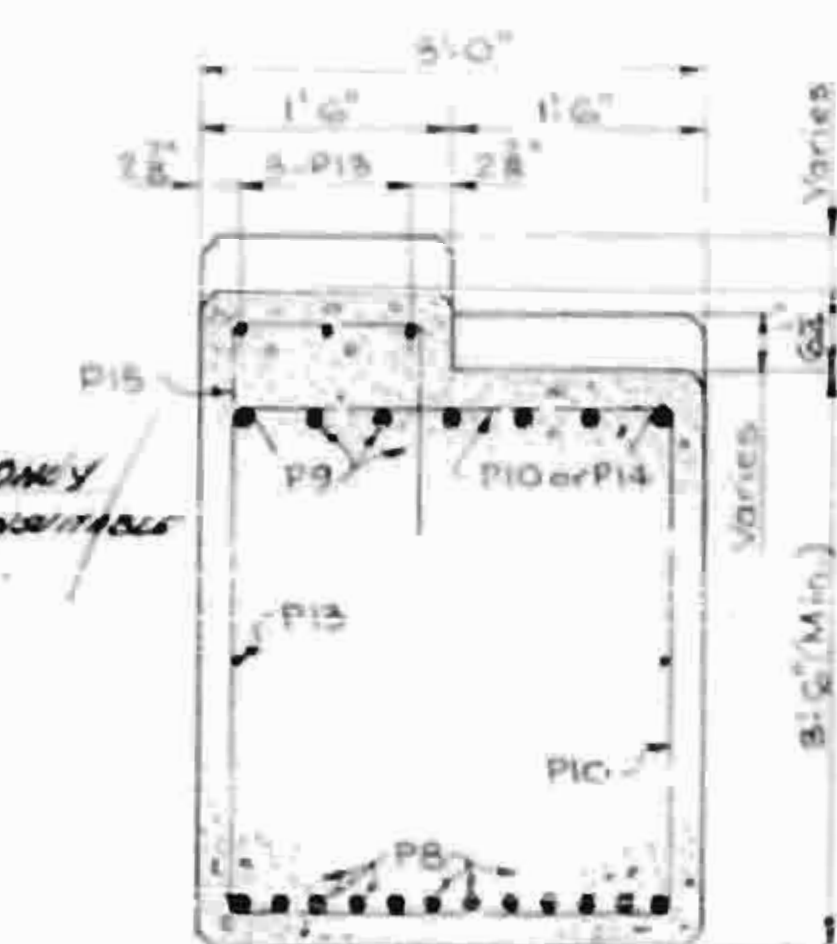
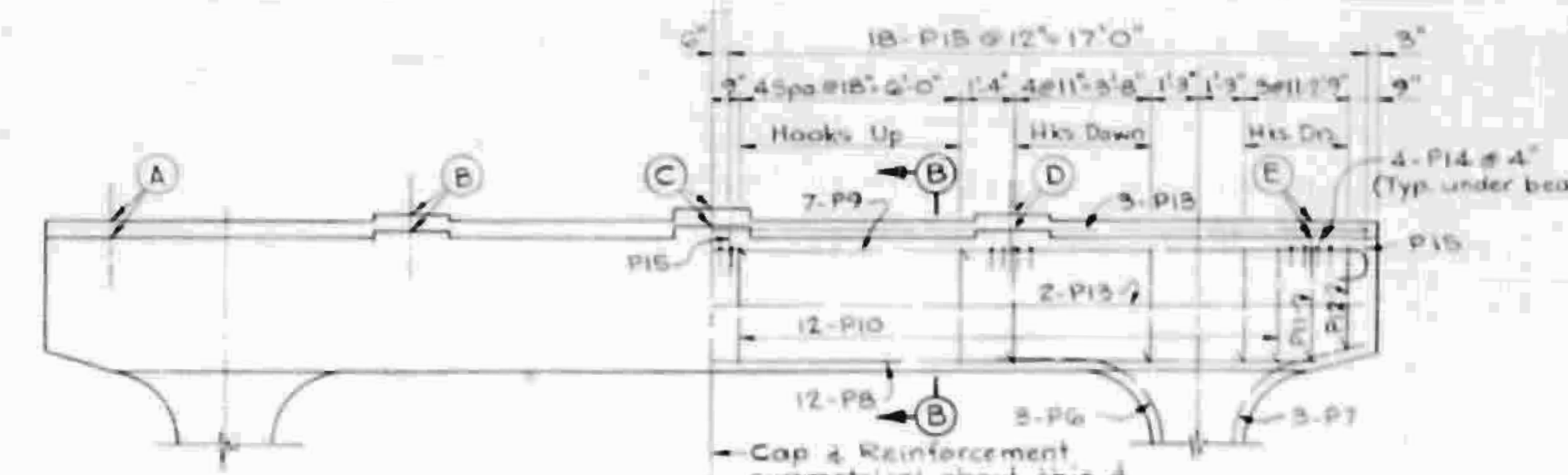
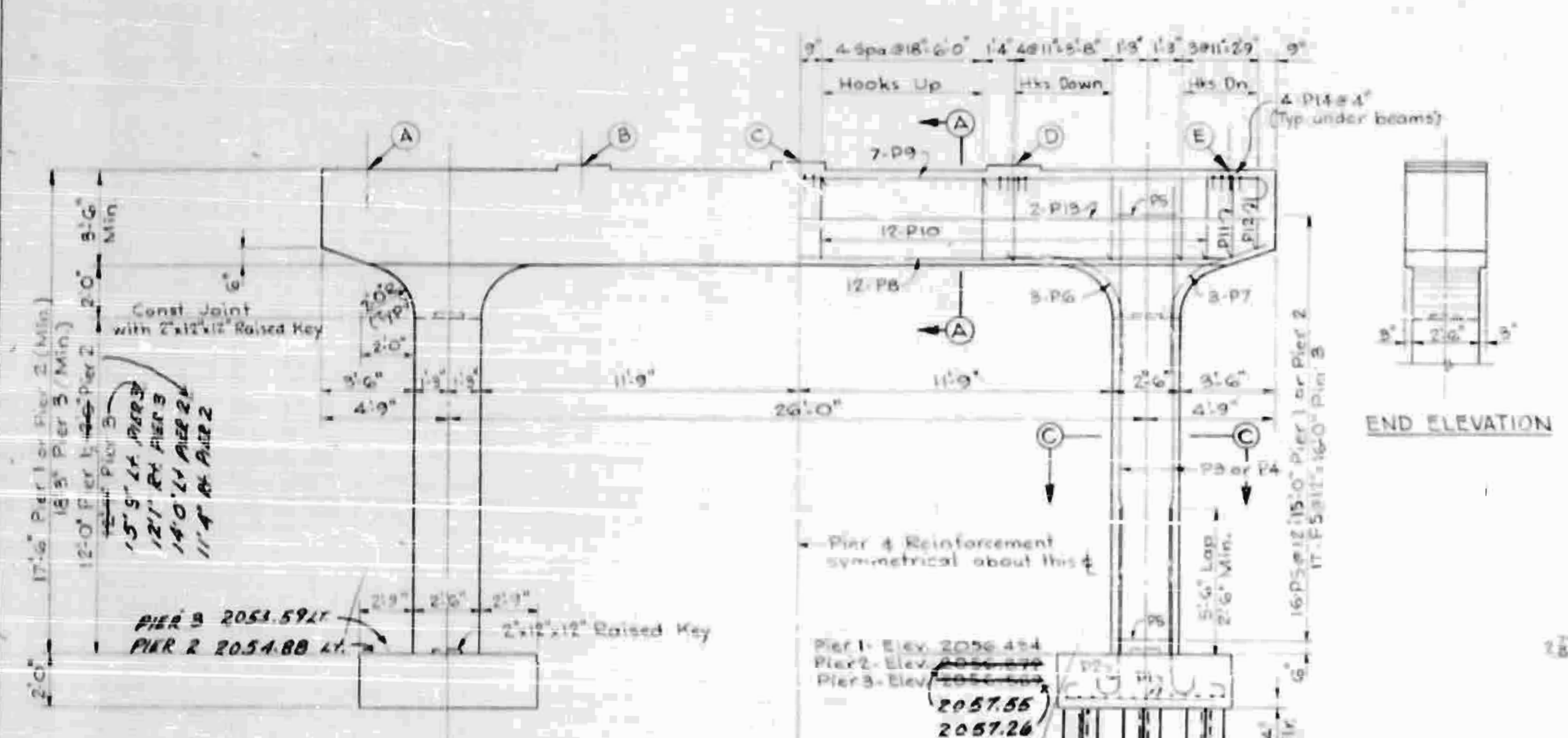
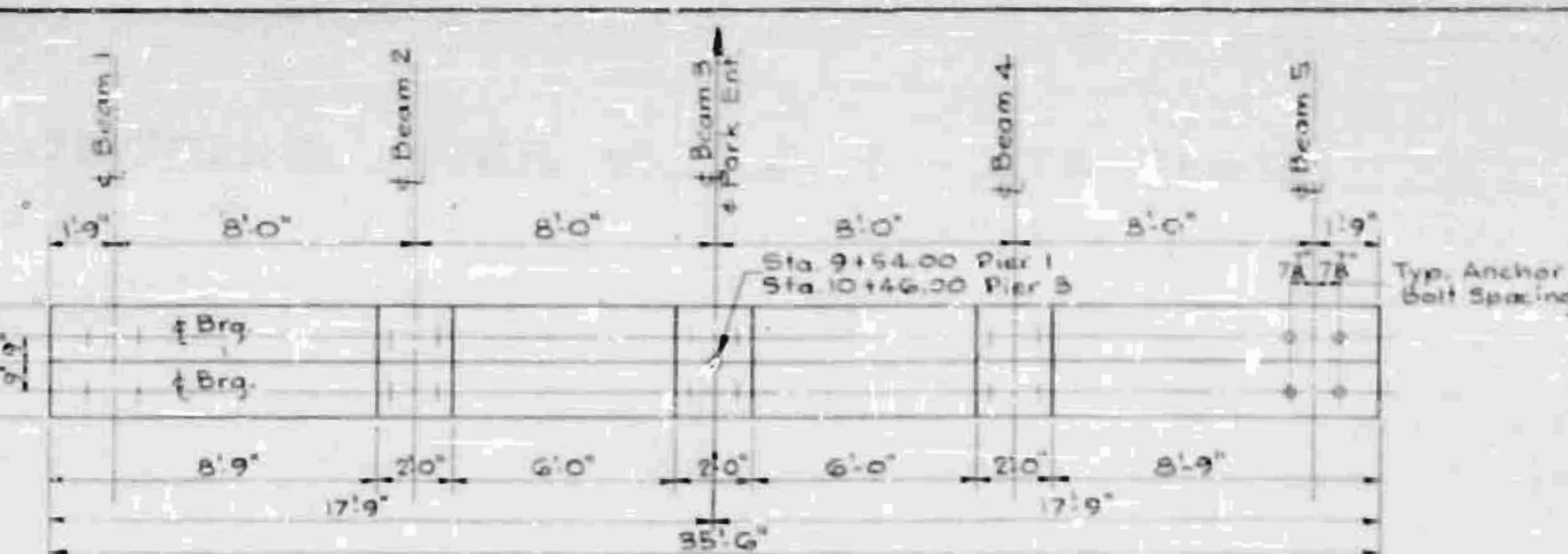
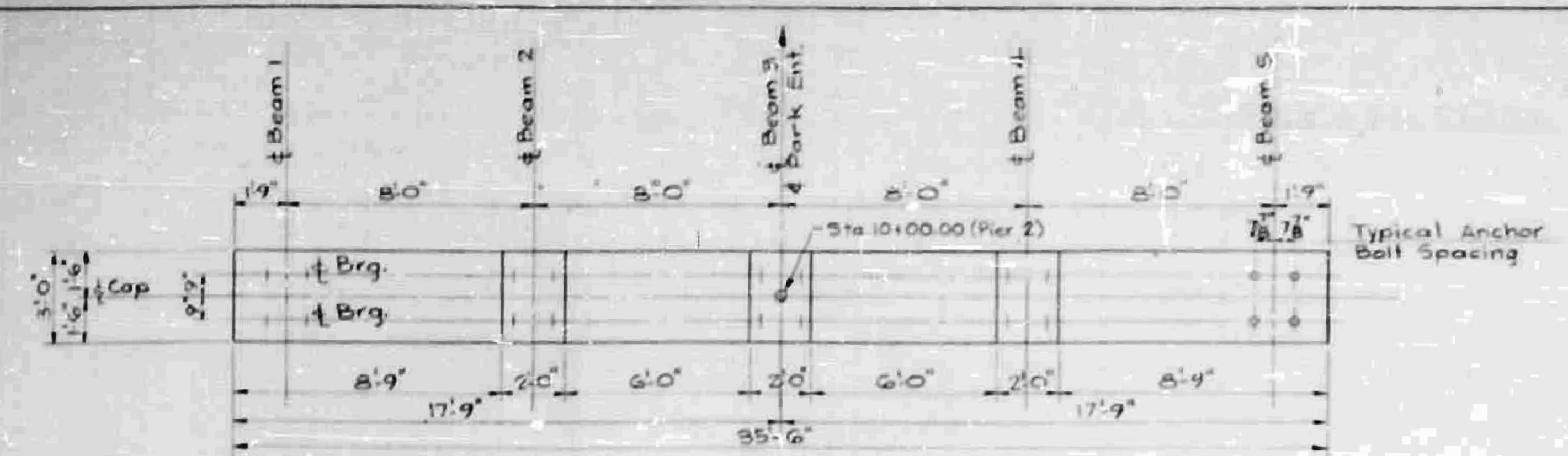
SPECIAL	DESIGNED BY	HC	DATE	5-62
	DRAWN BY	268	DATE	7-62
	TRACED BY		DATE	
	CHECKED BY	E.H.P.	DATE	7-62

BILL OF REINFORCEMENT														
BAR	NUMBER			SIZE	TYPE	LENGTH	a	b	WEIGHT					
	Pier 1	Pier 2	Pier 3			ft. in.			Pier 1	Pier 2	Pier 3			
P1	32	52	52	6	1	8 10	7 1/2	0-8	690	490	690			
P2	24	24	24	8	2	8 2	7 1/2	1-1	523	523	523			
P3	24	24	24	8	3	17 0			1089	1089				
P4	-	-	24	8	4	17 9			-	-	1137			
P5	32	32	34	4	5	8 11			191	191	203			
P6	6	6	6	5	6	7 7			47	47	47			
P7	6	6	6	5	6	11			48	48	48			
P8	12	12	12	10	5	32 2			1661	1661	1661			
P9	7	7	7	5	1	37 2	35 0	1-1	695	695	695			
P10	24	24	24	4	6	9 10	2 8	3-2	58	58	58			
P11	2	2	2	4	6	9 9	2 8	3-1	13	13	13			
P12	2	2	2	4	6	9 3	2 8	2-10	12	12	12			
P13	5	2	5	5	5	35 2			183	73	183			
P14	20	20	20	4	7	3 3	2 8	0-3	43	43	43			
P15	36	-	36	4	7	3 2	1 2	1-0	76	-	76			



BILL OF MATERIAL

Concrete, Class A, C.Y.	31.10	32.09	33.62
Reinforcing Steel, Lbs.	5,424	5,238	5,454
Unclassified Structure Excavation, CY	42.85	34.40	57.80



SEAT ELEVATIONS

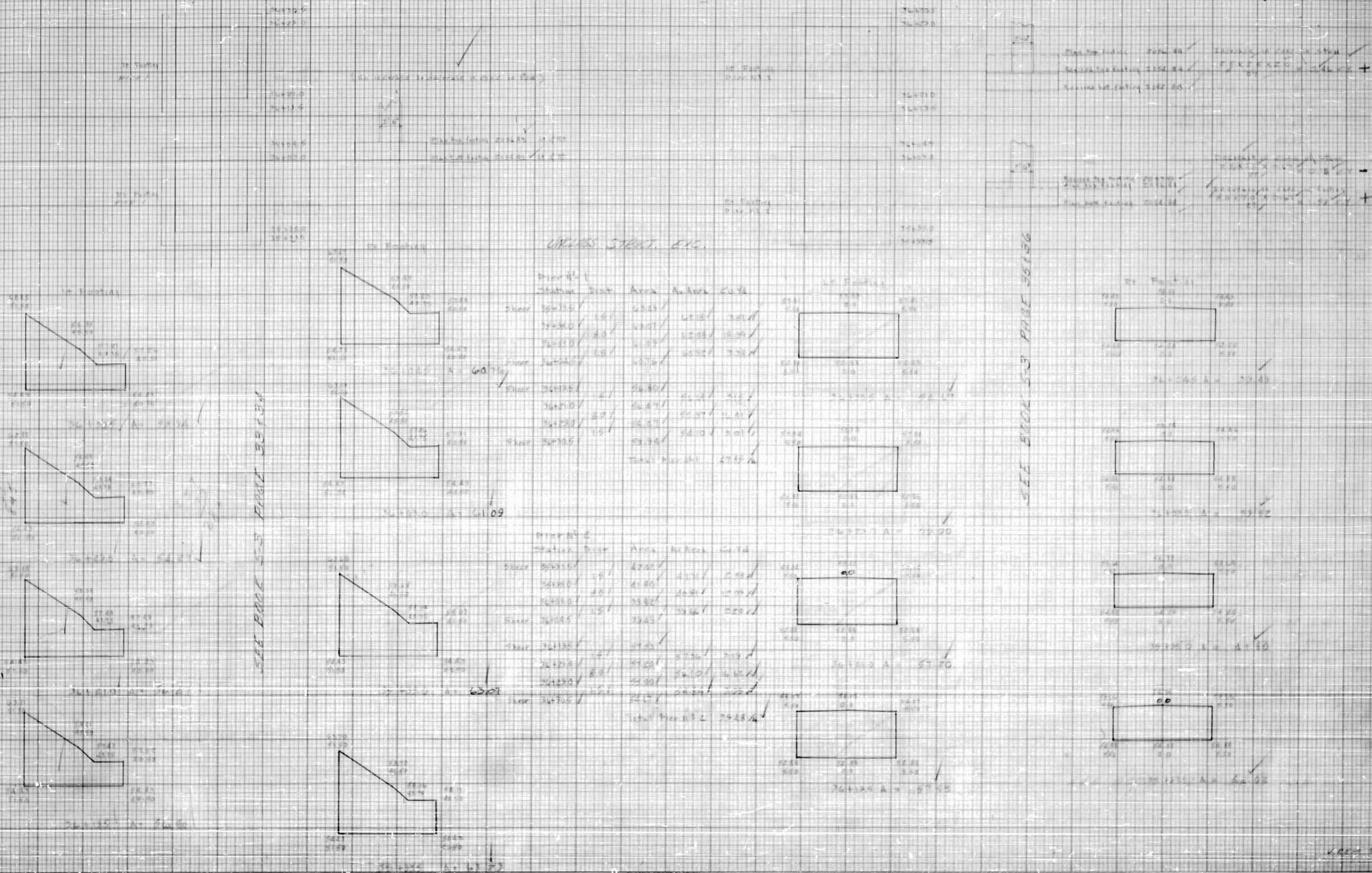
	PIER 1	PIER 2	PIER 3
Span A	Span B	Span B	Span C
A	2074.453	2073.934	2074.379
B	2074.620	2074.101	2074.546
C	2074.786	2074.267	2074.712
D	2074.620	2074.101	2074.546
E	2074.453	2073.934	2074.379

PROJECT NO. 8.3191101
BUNCOMBE COUNTY
STATION: 36+12.00
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH
PIERS 1, 2 & 3

DESIGNED BY: J.E.C. DATE: 5/6/62
DRAWN BY: E.H.E. DATE: 5/6/62
CHECKED BY: J.E.C. DATE: 5/6/62

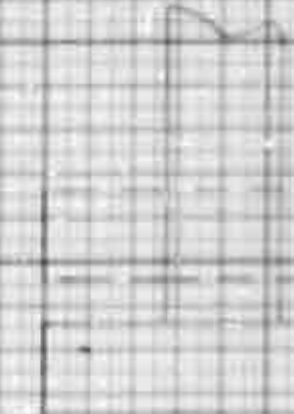
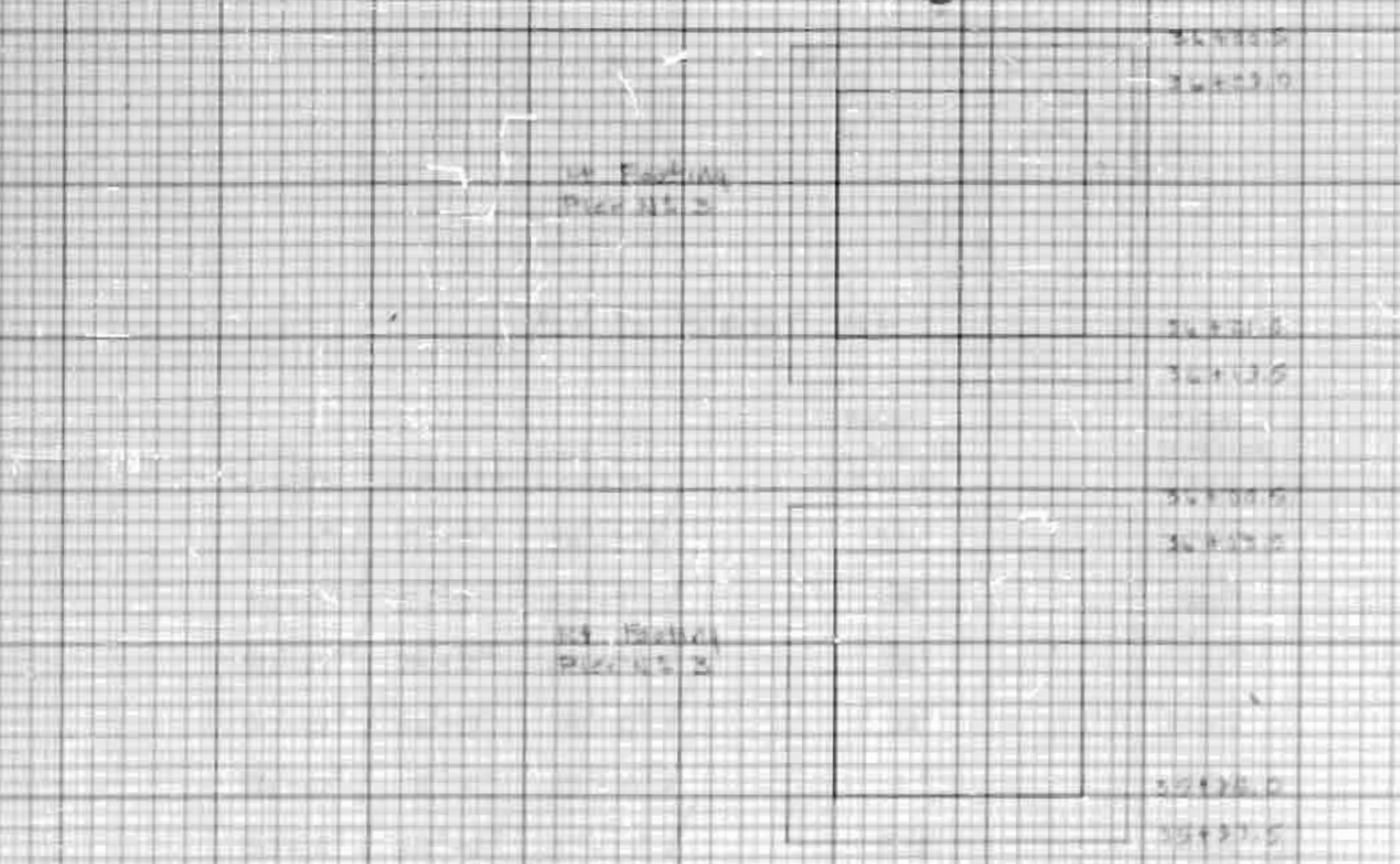
EXCAVATION CROSS-SECTIONS - PIER NO 1 & 2 - STA 36+12

STATE PROJECT NO. SHEET NO. TOTAL SHEETS
N.C. 8.319119 5-36 110
P.A. PROJ. NO. 100-34-1(4)



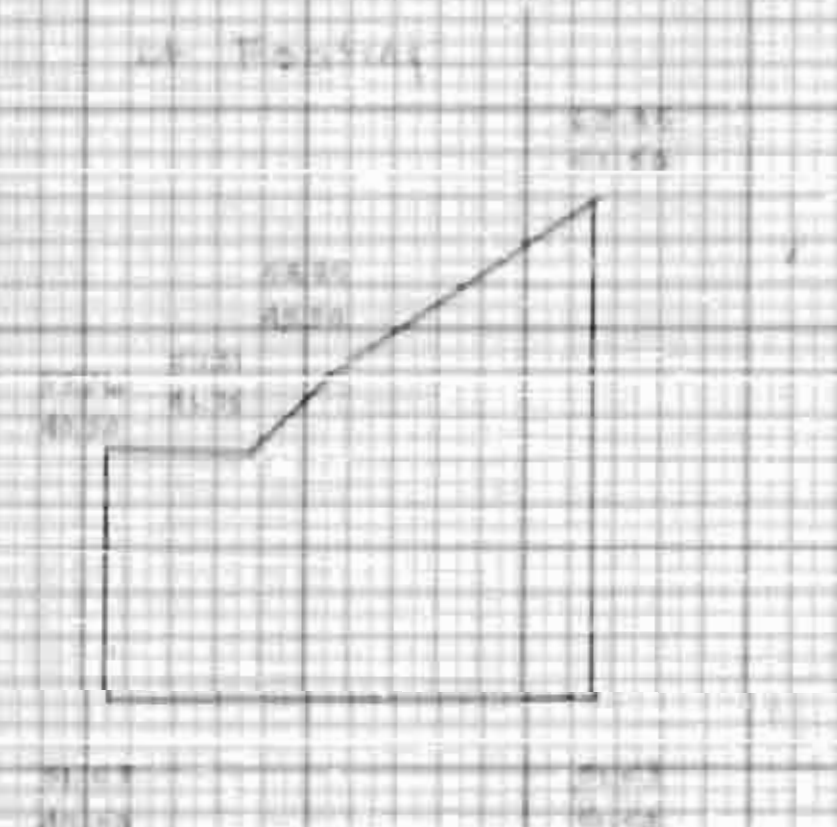
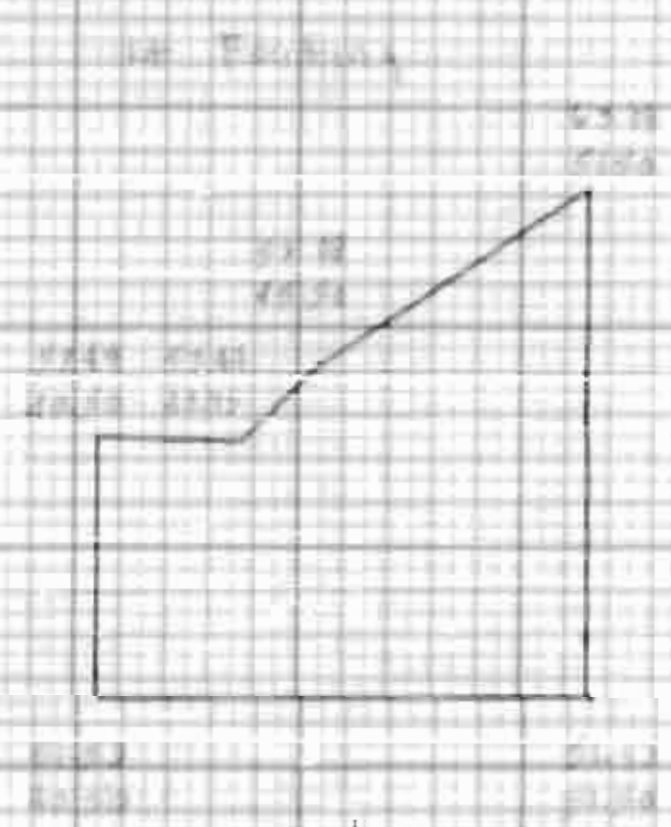
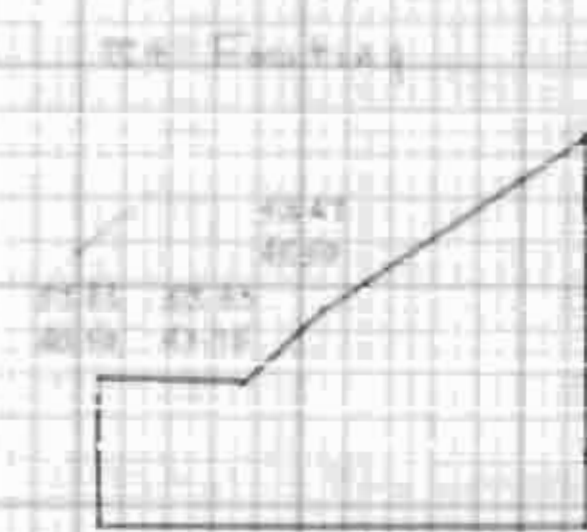
34. 12

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	8.3191101	S-37	110
F.A. PROJ. NO.	APC-34-114		

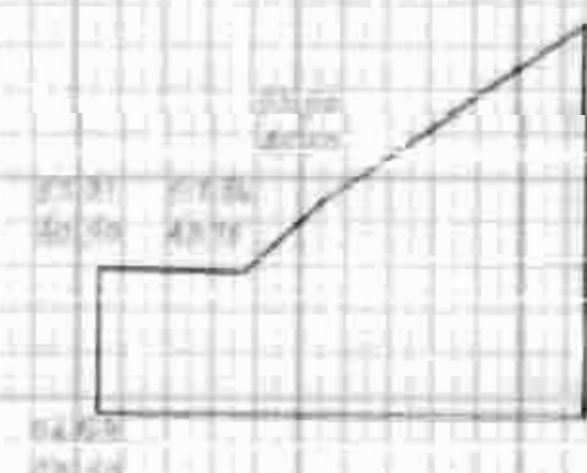


1. $\frac{1}{x^2} = x^{-2}$
 $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$
 $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$
 2. $\frac{1}{x^3} = x^{-3}$
 $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$
 $\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$
 3. $\frac{1}{x^4} = x^{-4}$
 $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$
 $\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$
 4. $\frac{1}{x^5} = x^{-5}$
 $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$
 $\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$

Increase in temp. in stem
 $\frac{20^\circ \times 25 \times 10}{24} = 208.33^\circ \text{C}$


$$\text{Zur } 1. \text{ Teil } A = \text{Zur } 2. \text{ Teil } B$$

$$25 + 210 = 235$$


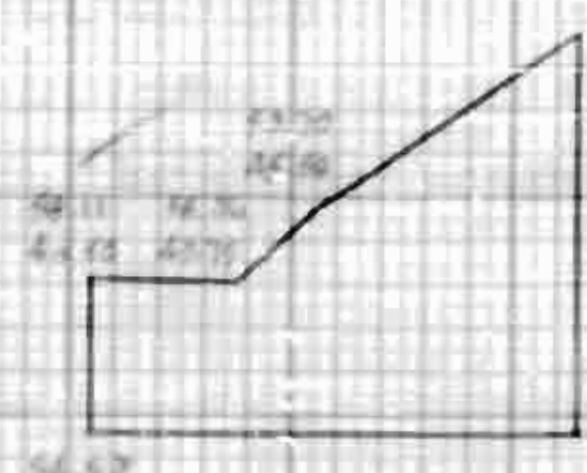
76-04-5 12 43.00



2014年12月	12月	12月
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我是一個愛笑的人，笑是我最愛做的事。



4. 10. 2014

SUMMARY OF QUANTITIES	
UNCLASSIFIED STRUCTURE EXCAVATION	
PIECE NO. 1	47.85 C.Y.
PIECE NO. 2	35.49 C.Y.
PIECE NO. 3	49.85 C.Y.
Total Excavation	133.19 C.Y.
STAGE A CONCRETE	
PIECE NO. 1 PLAN QUANTITY	25.79 S.F. 15
PIECE NO. 2 PLAN QUANTITY	20.10
PLUS REINFORCE IN STAGE A EXCAVATION	+ 0.44
PLUS REINFORCE IN STAGE B EXCAVATION	+ 0.55
PLUS REINFORCE IN STAGE C EXCAVATION	+ 1.37 32.05
PIECE NO. 3 PLAN QUANTITY	21.52
PLUS REINFORCE IN STAGE B EXCAVATION	+ 0.63
PLUS REINFORCE IN STAGE C EXCAVATION	+ 0.16
PLUS REINFORCE IN STAGE D EXCAVATION	+ 1.37 33.68
Total Concrete	36.72

Station	Dist	Area	h/area	2.5% Shear
24+33.5	1.5	41.52	61.48	2.6
25+35.0	1.5	41.31	62.22	2.61
26+32.0	1.5	59.53	55.16	2.56
26+33.5	1.5	62.00		2.56
26+35	1.5	62.06	61.87	2.55
26+37.0	1.5	47.71	44.61	2.06
26+38.0	1.5	59.91	59.24	2.76
26+39.5	1.5	45.18		2.76

SEE BOOK 5-3 PAGE 34, 35

CONCRETE PILE RECORD STATION 36+12

STATE PROJECT NO. SHEET NO. TOTAL SHEETS
8.3191101 9-38 110
APD-341(4)



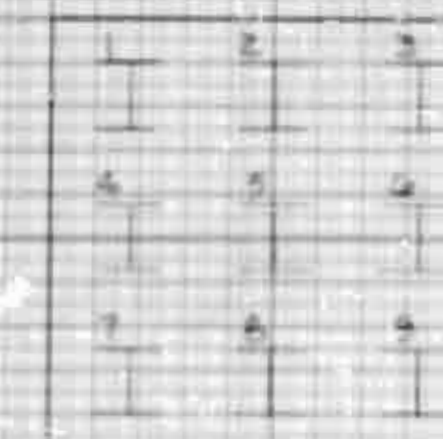
END BEAT NO. 1

Pile No.	Dist. from Centerline	Dist. from Edge	Dist. from Face	Dist. from Back	Dist. from Tip	Dist. from Head	Date
1	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
2	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
3	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
4	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
5	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
6	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66

Total Pile Length: 144'-0" / 144'-0"

SEE BOOK 5-3 P. 10

Additional Piles for Pier 36+12 per 110-77 Appendix A, Table 1



END BEAT NO. 2

Pile No.	Dist. from Centerline	Dist. from Edge	Dist. from Face	Dist. from Back	Dist. from Tip	Dist. from Head	Date
1	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
2	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
3	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
4	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
5	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
6	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66

Total Pile Length: 144'-0" / 144'-0"

SEE BOOK 5-3 P. 11

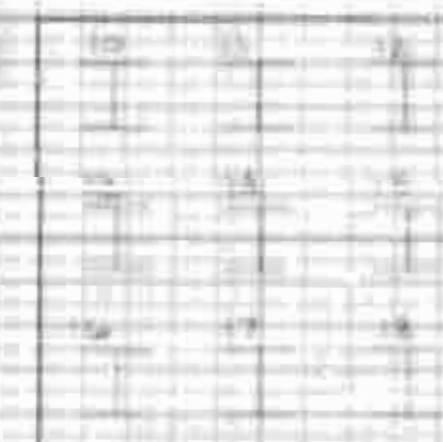


END BEAT NO. 3

Pile No.	Dist. from Centerline	Dist. from Edge	Dist. from Face	Dist. from Back	Dist. from Tip	Dist. from Head	Date
7	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
8	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
9	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
10	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
11	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
12	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66

Total Pile Length: 144'-0" / 144'-0"

SEE BOOK 5-3 P. 11



END BEAT NO. 4

Pile No.	Dist. from Centerline	Dist. from Edge	Dist. from Face	Dist. from Back	Dist. from Tip	Dist. from Head	Date
13	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
14	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
15	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
16	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
17	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66
18	24'-0"	0'-0"	24'-0"	24'-0"	24'-0"	24'-0"	11-10-66

Total Pile Length: 144'-0" / 144'-0"

SEE BOOK 5-3 P. 12

dotted line by Chas

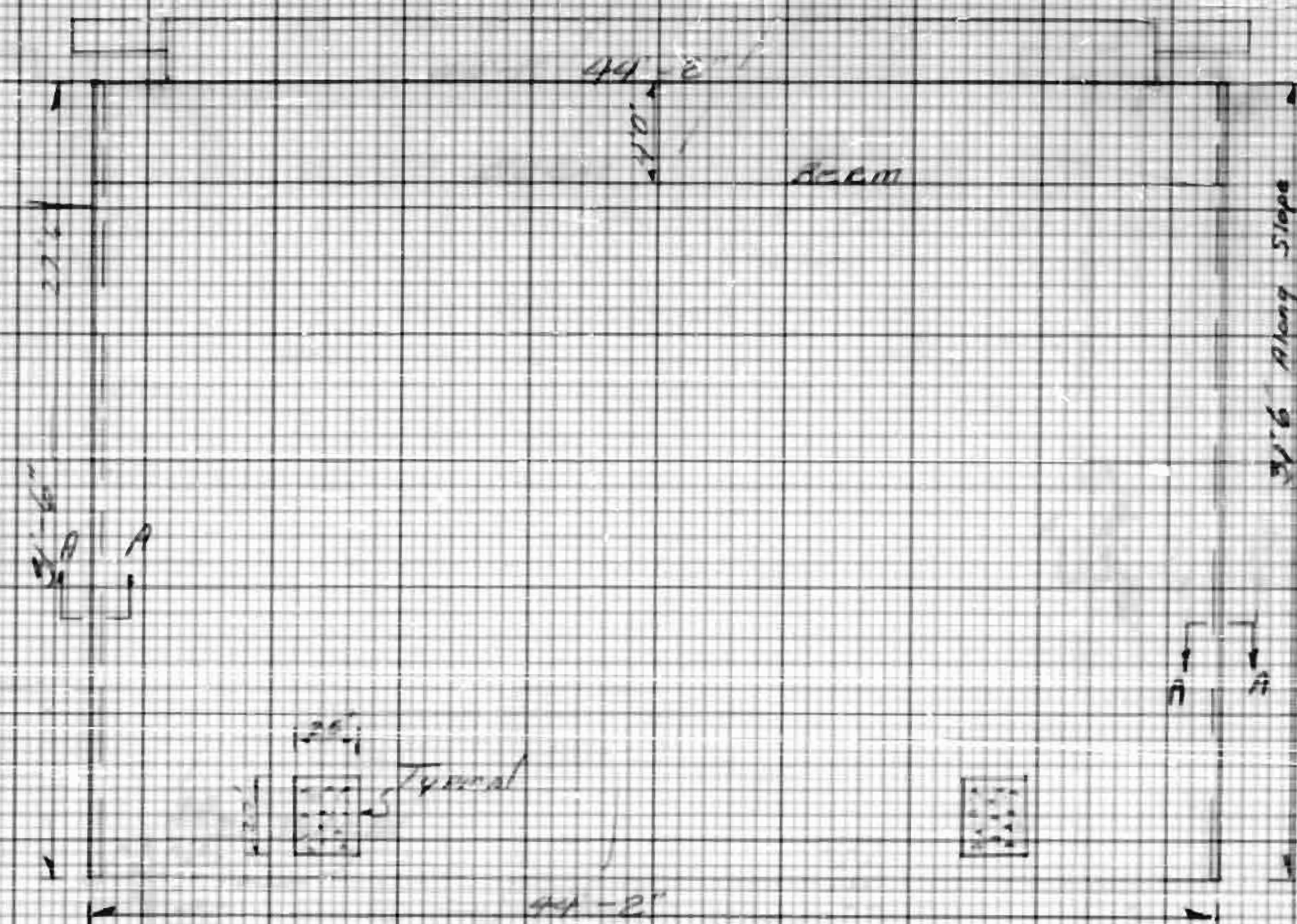
CONCRETE SLOPE PROTECTION

BRIDGE STA 30+00

END BENT #1

(Field Measured)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	8.319/101	S-39	110
F.A. PROJ. NO.	APD-34-1(A)		



SEE BIDD 5-3 P-21

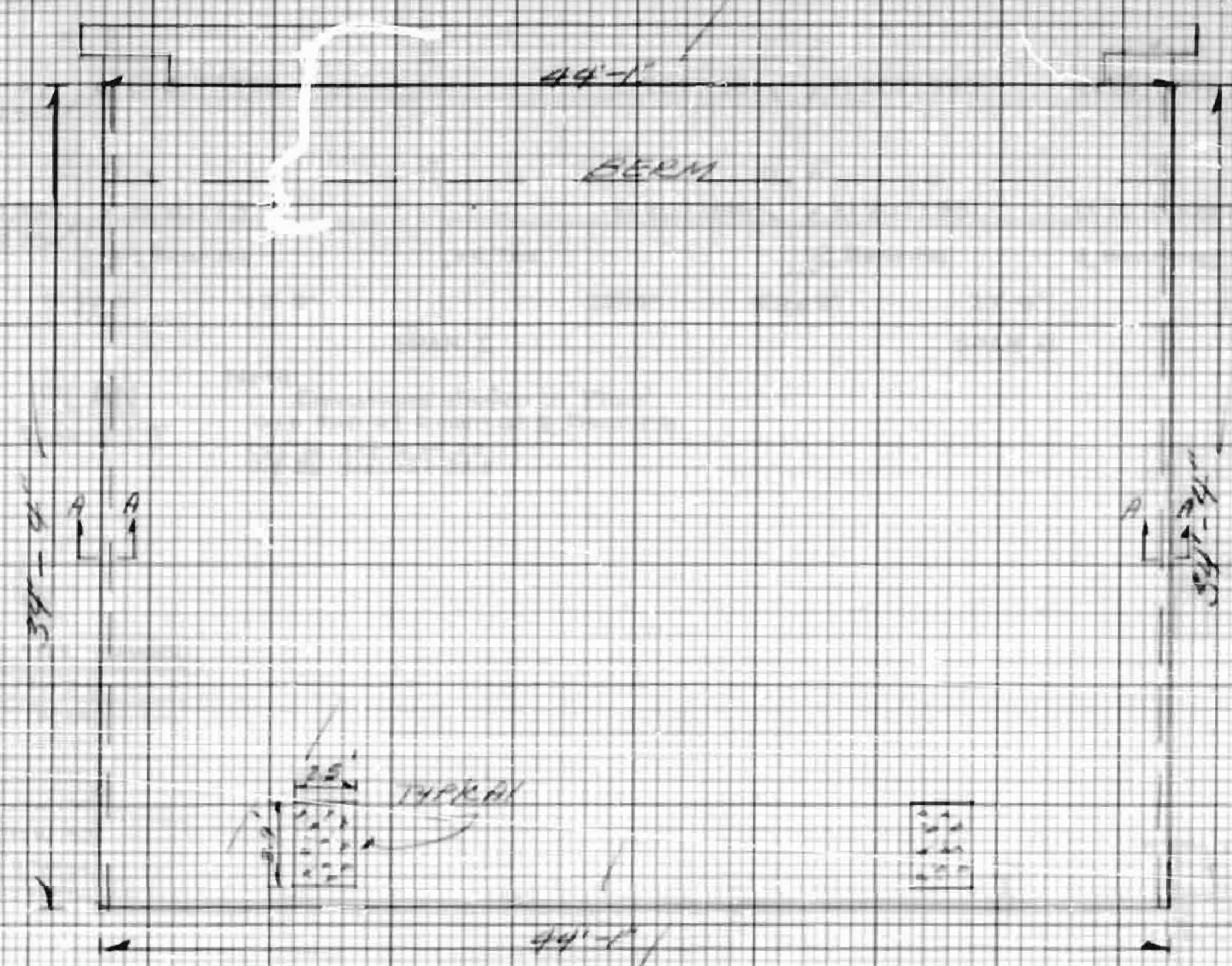
31.50' x 44.17' ÷ 2 =	694.0104	/
44.17' x 44.17' ÷ 2 =	979.124	/
Total	1673.134	/
(2.50' x 270.77') ÷ 2 =	-150.124	/
Total	1523.010	/

Plotting & Check by J. Chas.

CONCRETE SLOPE PROTECTION BRIDGE STA 36+12 END BENT #2

(Field Measured)

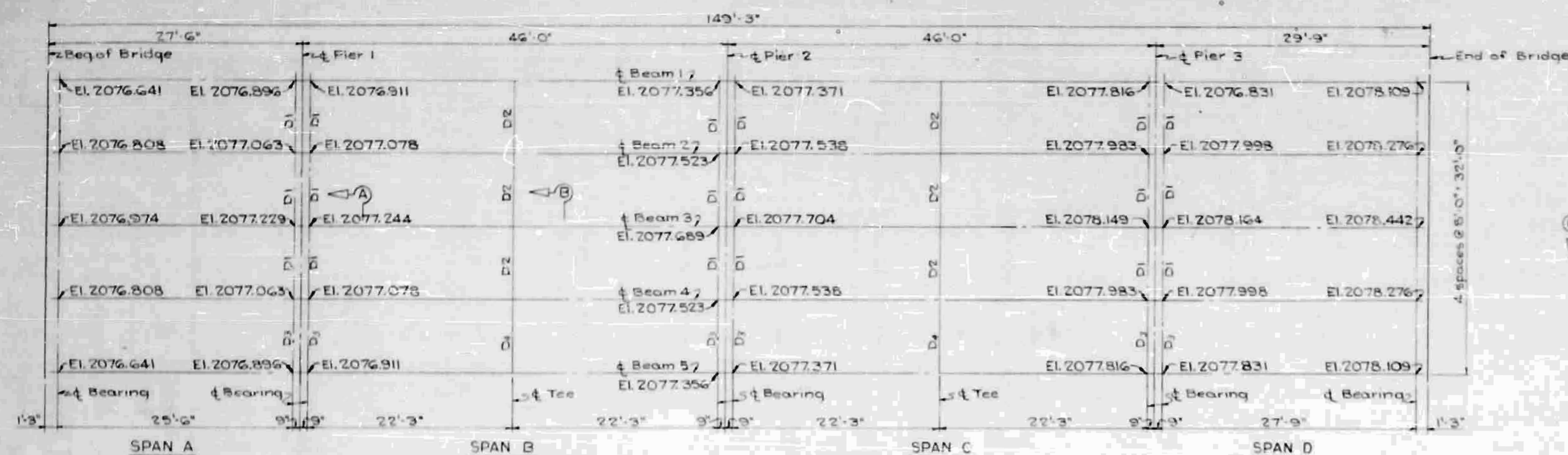
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	8.3191101	5-42	110
F.A. PROJ. NO.	APD-34-1(4)		



SEE BOOK 5-3 P. 21



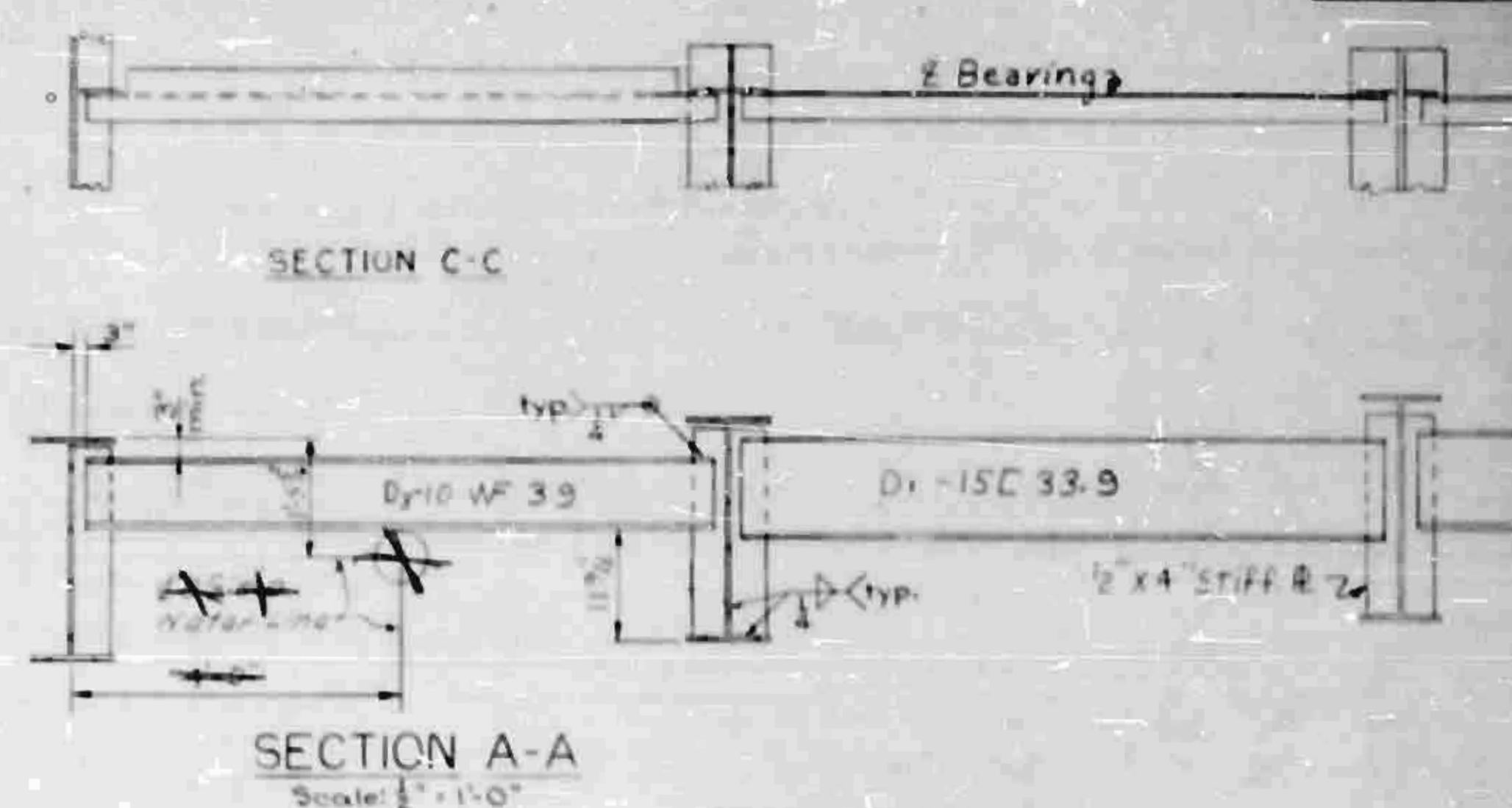
$44'0" \times 34'0" = 1516.00$
 $2 \times 14'0" \times 14'0" = 392.00$
 $1516.00 + 392.00 = 1908.00$
 $1908.00 \div 10.5 = 181.64$
 Total 171.64 yd



PLAN

Scale: 1" = 10'

Note: Elevations shown in "Plan" are top of beam at bearing.
D₁ & D₂ are 10 W 39
D₃ & D₄ are 15 C 33.9



SECTION A-A

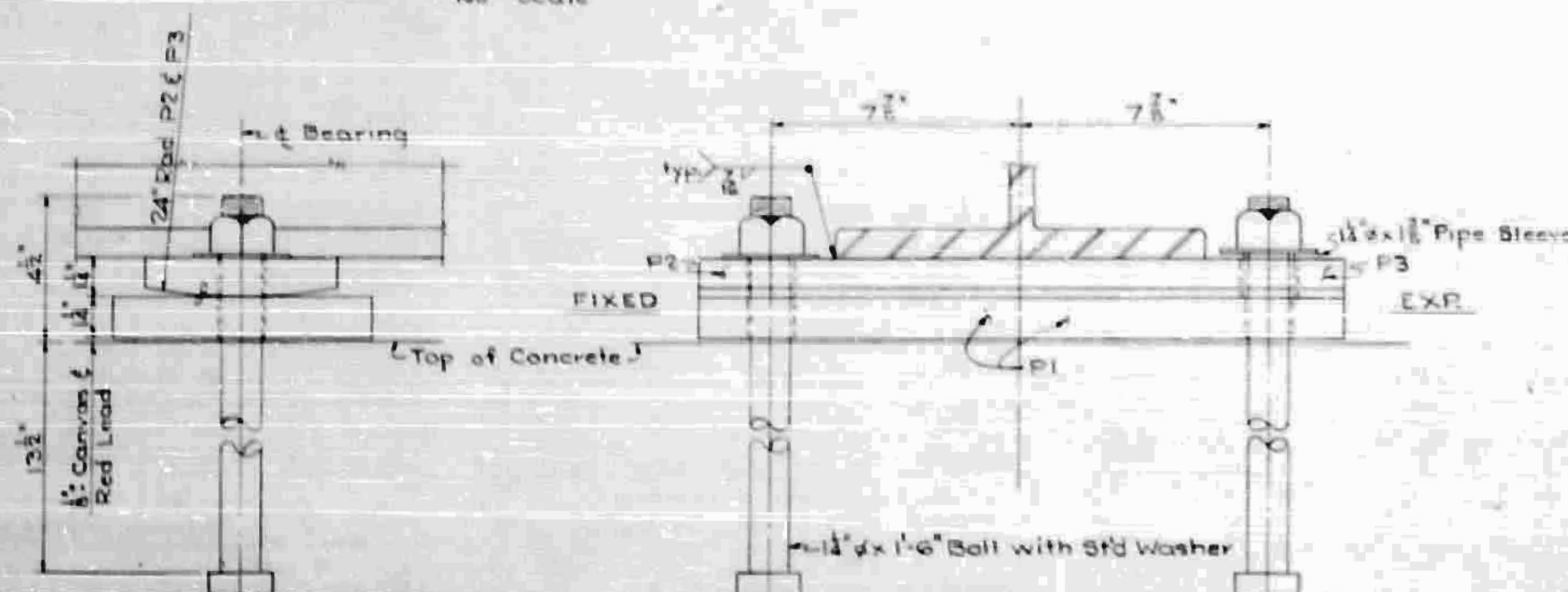
Scale: 1" = 10'

Span	Length
Span A	25'-6"
Span B	44'-0"
Span C	44'-0"
Span D	27'-9"

BEAM DETAILS

No Scale

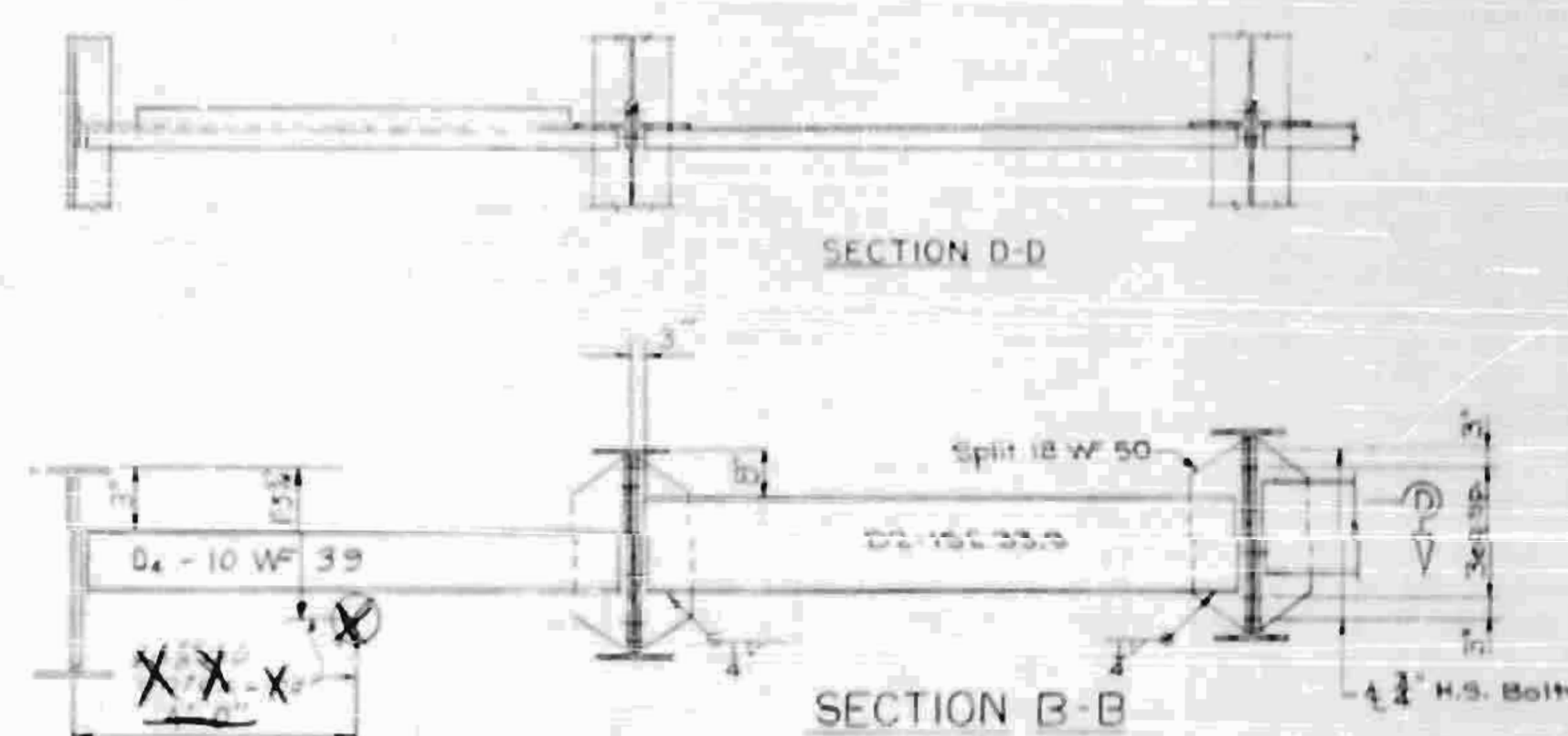
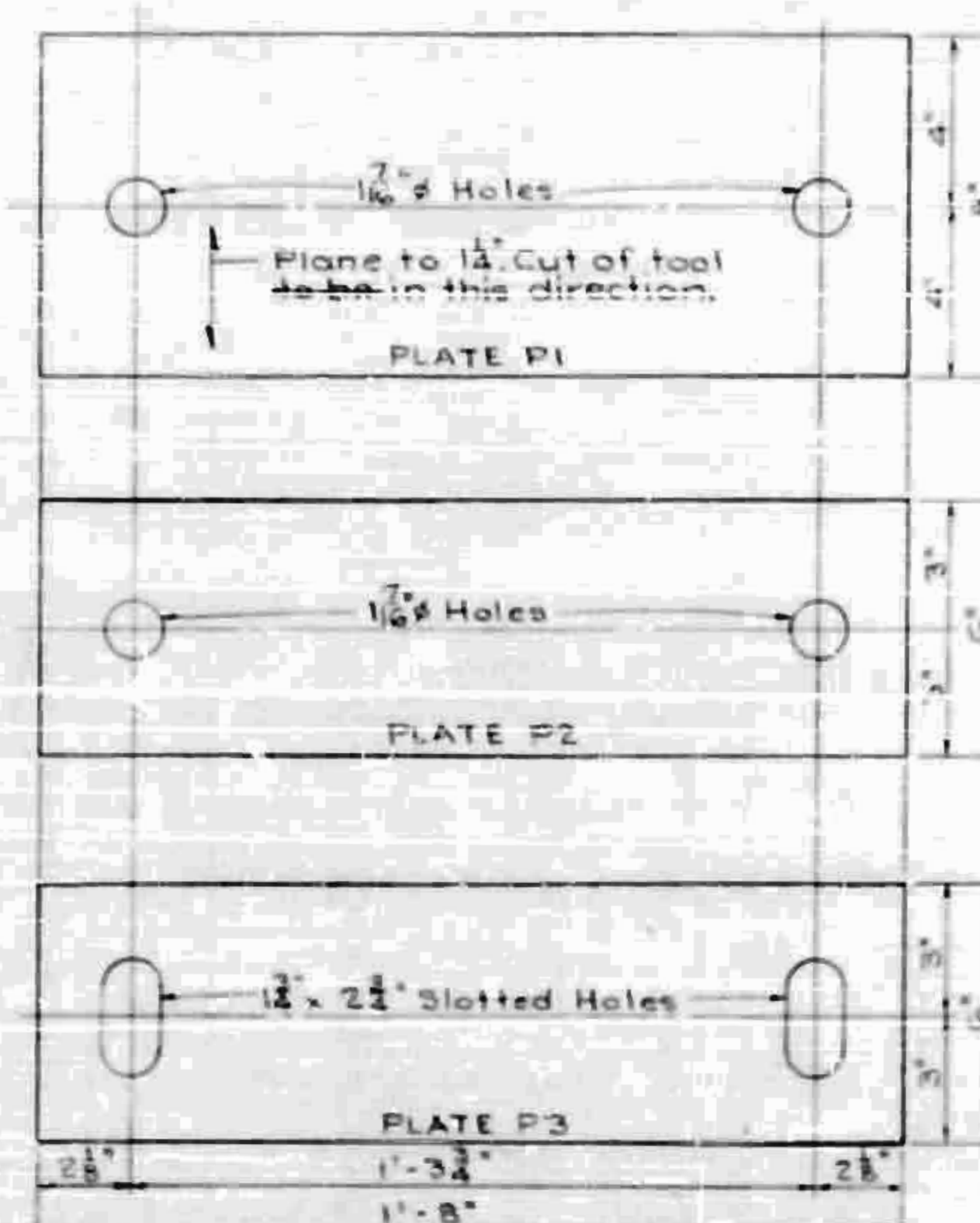
Beam	Size	Camber
A1&A5	27 W 84	
A2&A4	27 W 84	
B1&B5	33 W 130	
B2&B4	33 W 130	
C1&C6	33 W 130	
C2&C4	33 W 130	
D1&D5	27 W 84	
D2&D4	27 W 84	



BEARING DETAILS

Scale: 3" = 1'-0"

	PLATE LOCATION			
	Span A	Span B	Span C	Span D
End Bent 1	PI&P2			
Pier 1	PI&P3	PI&P2		
Pier 2		PI&P3	PI&P3	
Pier 3			PI&P2	PI&P3
End Bent 2				PI&P2



SECTION B-B

Scale: 1" = 10'

Note: Field connections of Split 18 W 50 to beams shall be bolted using 3" high strength bolts in accordance with specifications.

PROJECT NO. 8.3191101
BUNCOMBE COUNTY
STATION: 36+200

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH

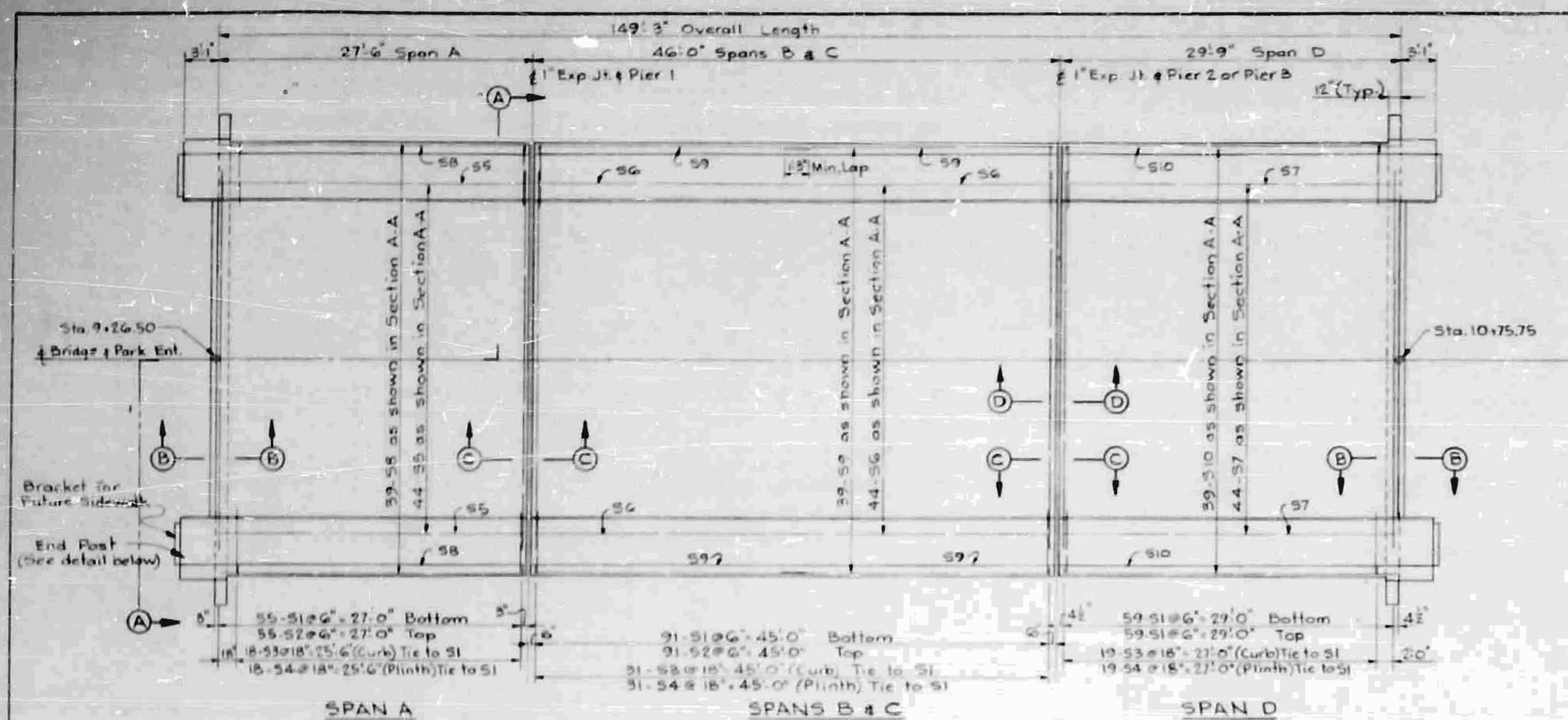
FRAMING PLAN

SPECIAL
DESIGNED BY: T.E.C.
DRAWN BY: W.E.B.
TRACED BY: T.E.C.
CHECKED BY: T.E.C.

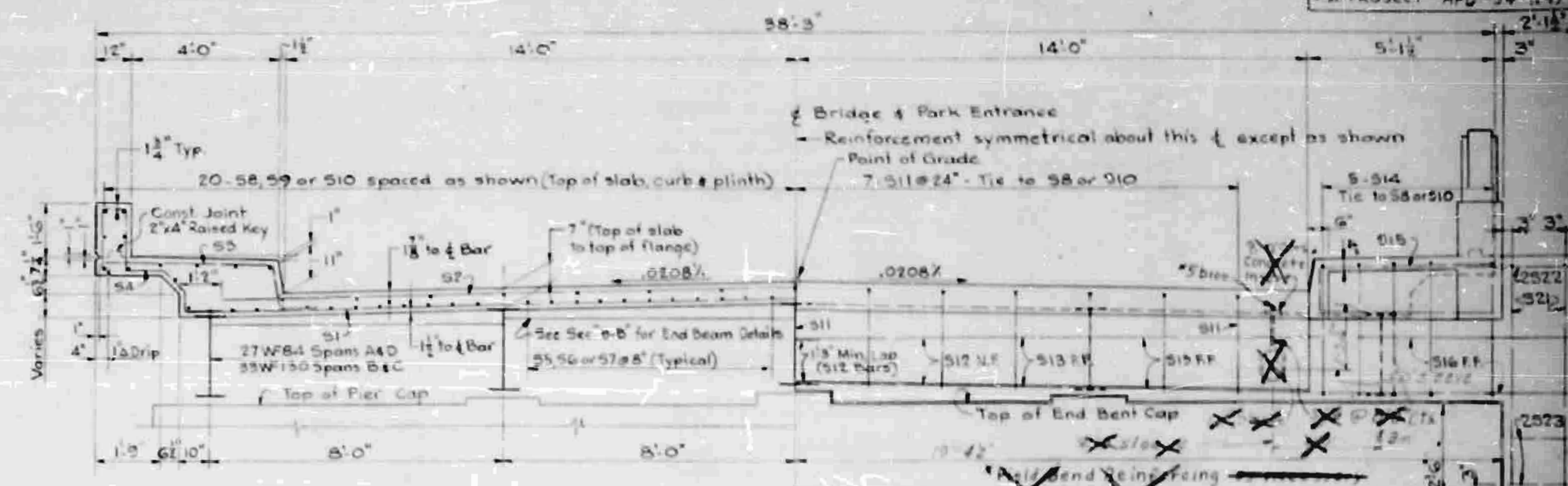
DATE: 3-68
DATE: 5-68
DATE: 5-68
DATE: 5-68

S-41

110



PLAN
Scale: $\frac{1}{8}'' = 1'-0''$



HALF-SECTION "A-A"
(Typical all spans)
Scale: $\frac{1}{8}'' = 1'-0''$

HALF-ELEVATION "A-A"
(Typical spans A & D)
Scale: $\frac{1}{8}'' = 1'-0''$

NOTE: BARRIER WAS DELETED / DELETED TO BE BUILT
REARER. APPROVED BY STA. HOLDING STATE UTILITY
ADMINISTRATIVE BOARD. LETTER DATED APRIL 11, 1967
AS REQUESTED BY CITY OF KANSAS CITY, MISSOURI, 1967
LETTER FROM NE. R.D. BULLOCK, DIRECTOR ENGINEER

Concrete inserts to be of an approved type.
The "S" bio. Sleeve & Concrete inserts must
be furnished by the owner and placed by the Contractor.
For other details see Special Provisions.

BILL OF REINFORCEMENT					
BAR	TYPE	SIZE	NUMBER	LENGTH	WEIGHT
					(45 Spans)
S1	ST	5	55	91	5
S2	ST	5	55	91	5
S3	ST	5	55	91	5
S4	ST	5	55	91	5
S5	ST	5	55	91	5
S6	ST	5	55	91	5
S7	ST	5	55	91	5
S8	ST	5	55	91	5
S9	ST	5	55	91	5
S10	ST	5	55	91	5
S11	ST	5	55	91	5
S12	ST	5	55	91	5
S13	ST	5	55	91	5
S14	ST	5	55	91	5
S15	ST	5	55	91	5
S16	ST	5	55	91	5
S17	ST	5	55	91	5
S18	ST	5	55	91	5
S19	ST	5	55	91	5
S20	ST	5	55	91	5
S21	ST	5	55	91	5
S22	ST	5	55	91	5
S23	ST	5	55	91	5

PROJECT NO. 8.3191101
BUNCOMBE COUNTY
STATION: 36+12.00

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH

DECK

BILL OF MATERIAL

Concrete, Class A 202.1 C.Y.
Reinforcing Steel 33,844 Lbs.
Structural Steel Approx. 99,400 Lbs.

SPECIAL
DESIGNED BY J.E.C.
DRAWN BY E.H.F.
CHECKED BY J.E.C.

DATE 5/62
DATE 5/62
DATE 5/62

SECTION E-E
Scale: $\frac{1}{8}'' = 1'-0''$

ELEVATION OF END POST
Scale: $\frac{1}{8}'' = 1'-0''$

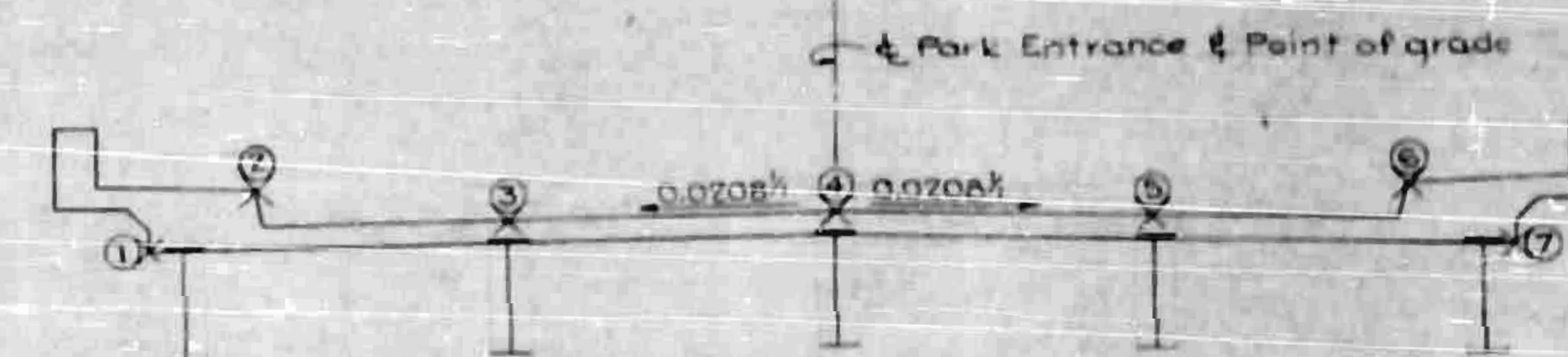
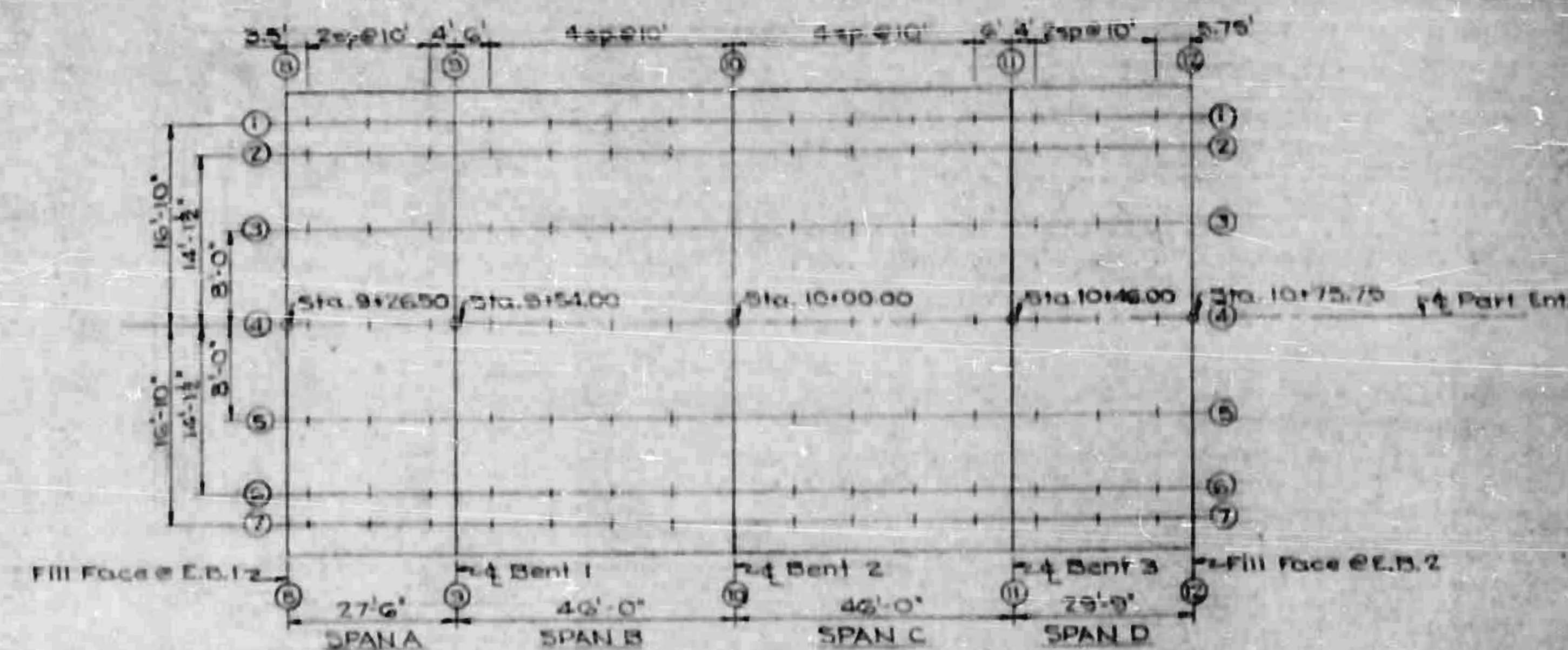
S-42
110

COLUMN 1 Bottom of Overhang		COLUMN 2 Top of Curb		COLUMN 3		COLUMN 4 ¢ of Bridge		COLUMN 5		COLUMN 6 Top of Curb		COLUMN 7 Bottom of Overhang	
Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation	Dist.	Elevation
2076.559 Fill Face						2077.545 Fill Face						2076.559 Fill Face	
3.5'	584 9+30					3.5'	580 9+30					3.5'	584 9+30
10'	634					10'	680					10'	634
10'	784 9+50					10'	780 9+50					10'	734 9+50
4'	815 ¢ Bent 1					4'	820 ¢ Bent 1					4'	815 ¢ Bent 1
6'	875 9+60					6'	880 9+60					6'	875 9+60
10'	2076.975					10'	2077.980					10'	2076.975
10'	2077.075					10'	2078.080					10'	2077.075
10'	175 9+90					10'	180 9+90					10'	175 9+90
10'	275 ¢ Bent 2					10'	280 ¢ Bent 2					10'	275 ¢ Bent 2
10'	375 10+10					10'	380 10+10					10'	375 10+10
10'	475					10'	480					10'	475
10'	575					10'	580					10'	575
10'	675 10+40					10'	680 10+40					10'	675 10+40
6'	735 ¢ Bent 3					6'	740 ¢ Bent 3					6'	735 ¢ Bent 3
4'	784 10+50					4'	780 10+50					4'	784 10+50
10'	884					10'	880					10'	884
10'	2077.984 10+70					10'	2078.980 10+70					10'	2077.984 10+70
5.75'	2078.052 Fill Face					5.75'	2079.058 Fill Face					5.75'	2078.052 Fill Face

GRADE DATA

P.I. STA. 13+00.00
P.E. ELEV. 2081.28
LENGTH OF CURVE 400'
G1 +1.00% G2 +11.00%

FED. ROAD DIST. NO.	STATE	PROJECT
1	N.C.	APD-34-110



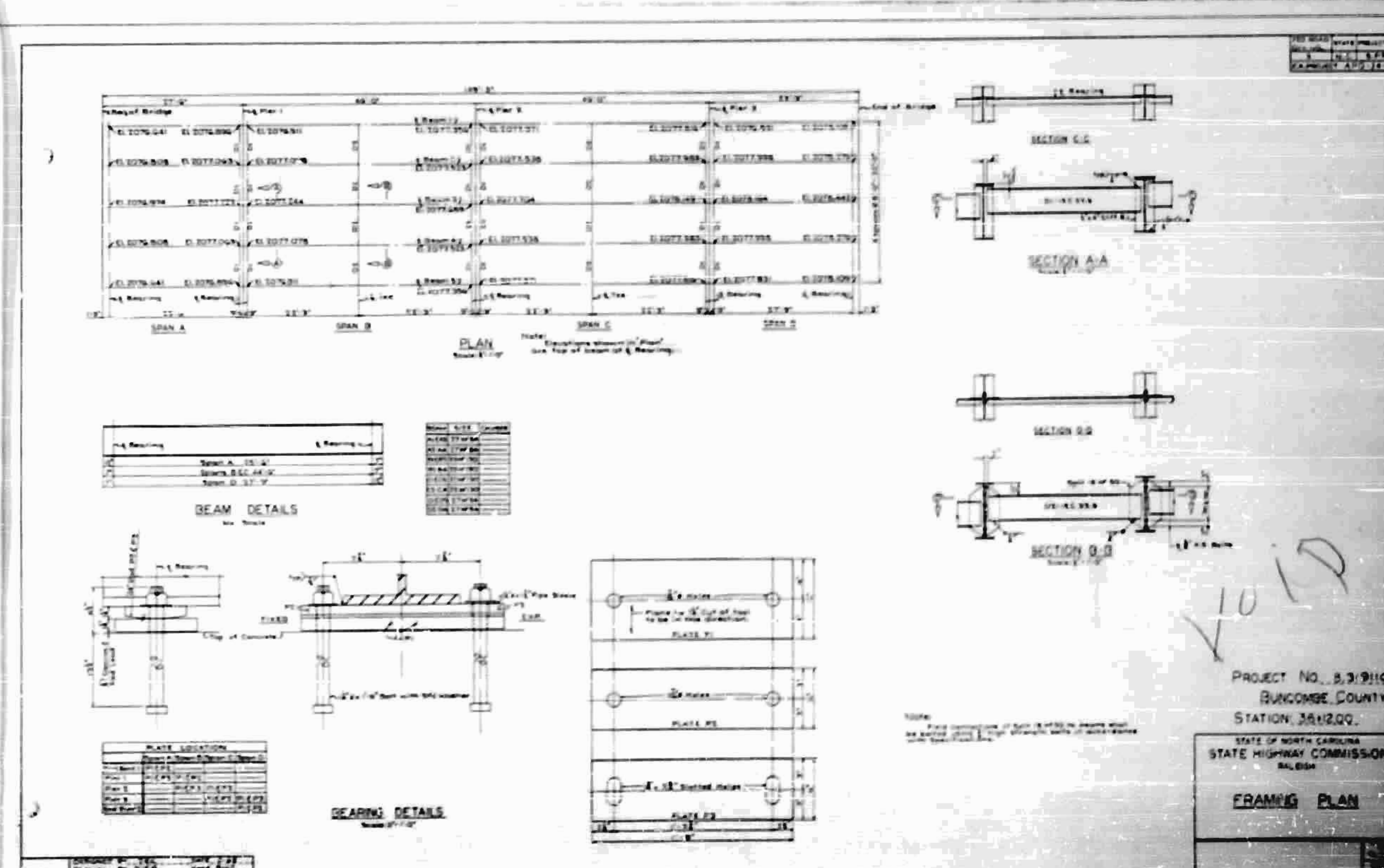
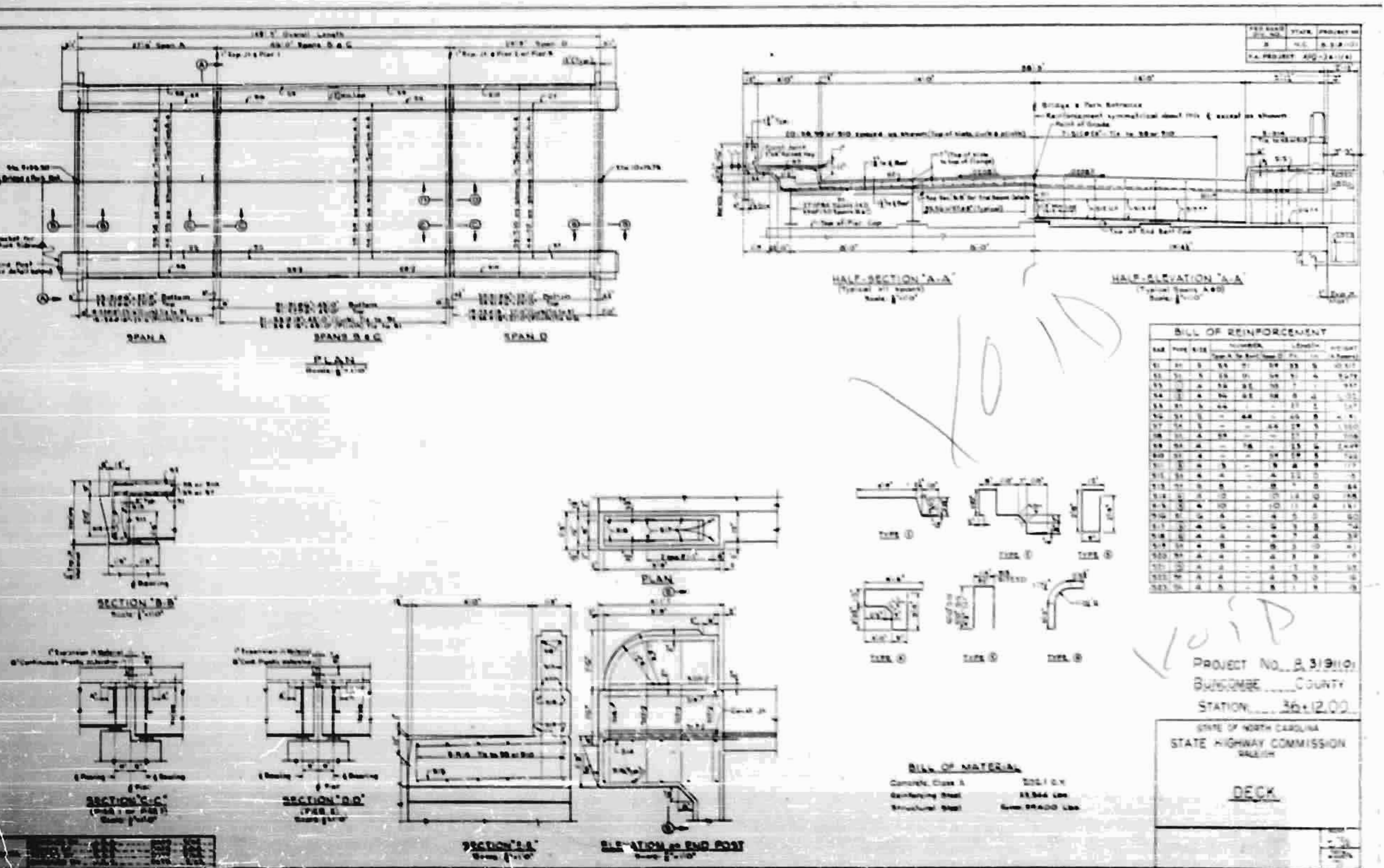
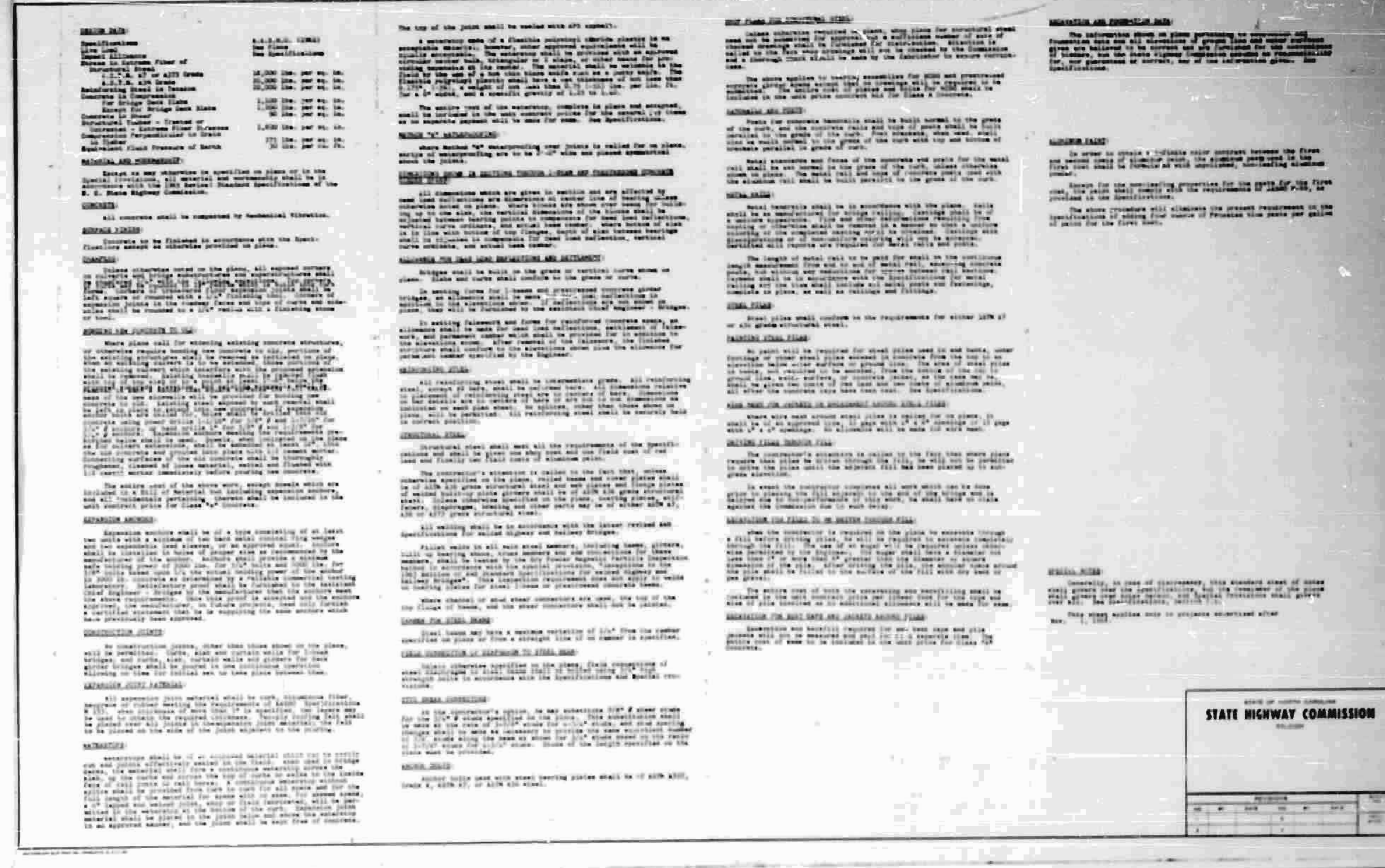
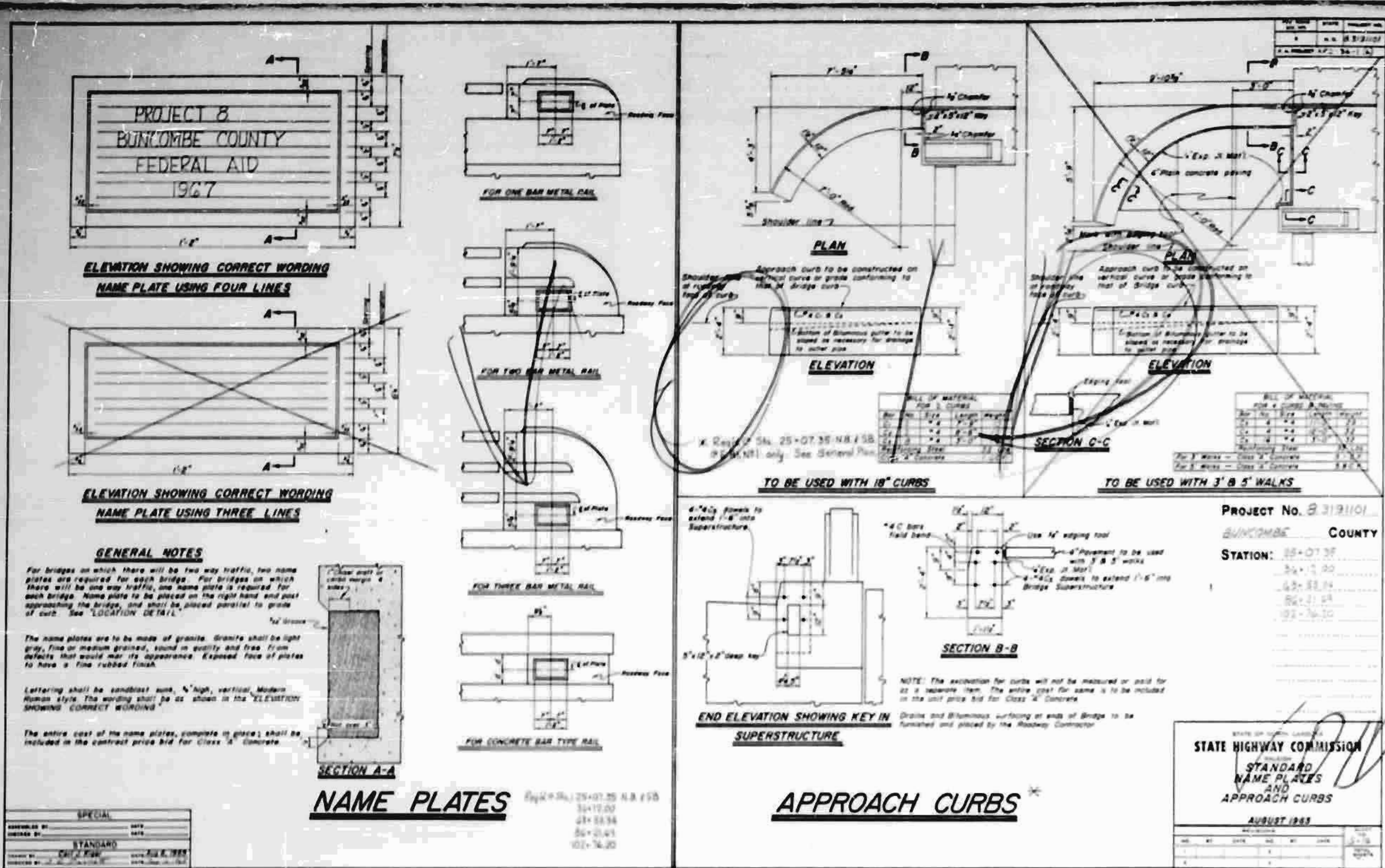
TYPICAL SECTION

Elevations shown in Columns 1 through 7 are final required elevations of the completed structure. In setting up the form and screen elevations, provisions made for deflections where required.

For Columns 8 through 12, given elevations are at 2'-0" intervals normal to ¢ of roadway from the left gutter line to the right gutter line.

TABLE OF DEAD LOAD DEFLECTIONS (inches)									
	SPAN A		SPAN B		SPAN C		SPAN D		SPAN E
	Int.	Ext.	Int.	Ext.	Int.	Ext.	Int.	Ext.	
Beam alone in place	1'	1'	1'	1'	1'	1'	1'	1'	
Superimposed D.L.	1'	1'	1'	1'	1'	1'	1'	1'	
Total	1'	1'	1'	1'	1'	1'	1'	1'	
Vertical Curve Ord.									
Camber									

HEADERS												Camber	
COLUMN 8 Fill Face @ E.B. 1		COLUMN 9 ¢ of Bent 1		COLUMN 10 ¢ of Bent 2		COLUMN 11 ¢ of Bent 3		COLUMN 12 Fill Face @ E.B. 2		COLUMN 13		COLUMN 14	
Distance	Elevation	Distance	Elevation	Distance	Elevation	Distance	Elevation	Distance	Elevation	Distance	Elevation	Distance	Elevation
Left Gutter	2077.254	Left Gutter	2077.529	Left Gutter	2077.803	Left Gutter	2078.077	Left Gutter	2078.351	Left Gutter	2078.625	Left Gutter	2078.899
14'-0" @ 2'-0" = 28'-0"	295	14'-0" @ 2'-0" = 28'-0"	570	14'-0" @ 2'-0" = 28'-0"	570	14'-0" @ 2'-0" = 28'-0"	570	14'-0" @ 2'-0" = 28'-0"	570	14'-0" @ 2'-0" = 28'-0"	570	14'-0" @ 2'-0" = 28'-0"	570
	337		612		572		572		572		572		572
	379		654		614		614		614		614		614
	421		696		656		656		656		656		656
	463		737		697		697		697		697		697
	505		778		738		738		738		738		738
	547		820		780		780		780		780		780
	589		861		821		821		821		821		821
	631		903		863		863		863		863		863
	673		944		904		904		904		904		904
	715		986		946		946		946		946		946
	757		1027		987		987		987		987		987
	799		1069		1029		1029		1029		1029		1029
	841		1110		1070		1070		1070		1070		1070
	883		1152		1112		1112		1112		1112		1112
	925		1193		1153		1153		1153		1153		1153
	967		1235		1195		1195		1195		1195		1195
	1009		1276		1236		1236		1236		1236		1236
	1051		1318		1278		1278		1278		1278		1278
	1093		1359		1319		1319		1319		1319		1319
	1135		1401		1361		1361		1361		1361		1361
	1177		1442		1402		1402		1402		1402		1402
	1219		1484		1444		1444		1444		1444		1444
	1261		1525		1485		1485		1485		1485		1485
	1303		1567		1527		1527		1527		1527		1527
	1345		1608		1568		1568		1568		1568		1568
	1387		1650		1610		1610		1610		1610		1610
	1429		1691		1651		1651		1651		1651		1651
	1471		1733		1693		1693		1693		1693		1693
	1513		1774		1734		1734		1734		1734		1734
	1555		1816		1776		1776		1776		1776		1776
	1597		1857		1817		1817		1817		1817		1817
	1639		1899		1859		1859		1859		1859		1859
	1681		1940		1900		1900		1900		1900		1900
	1723		1982		1942		1942		1942		1942		1942
	1765		2023		1983		1983		1983		1983		1983
	1807		2065		2025		2025		2025		2025		2025
	1849		2106		2066		2066		2066		2066		2066
	1891		2148		2108		2108		2108		2108		2108
	1933		2189		2149		2149		2149		2149		2149
	1975		2231		2191		2191		2191		2191		2191
	2017		2272		2232		2232		2232		2232		2232
	2059		2314		2274		2274		2274		2274		2274
	2101		2355		2315		2315		2315		2315		2315
	2143		2397		2357		2357		2357		2357		2357
	2185		2438		2398		2398		2398		2398		2398
	2227		2480		2440		2440		2440		2440		2440
	2269		2521		2481		2481		2481		2481		2481
	2311		2563		2523		2523		2523		2523		2523
	2353		2604		2564		2564		2564		2564		2564
	2395		2646		2606		2606		2606		2606		2606
	2437		2687		2647		2647		2647		2647		2647
	2479		2729		2689		2689		2689		2689		2689
	2521		2770		2730		2730		2730		2730		2730
	2563		2812		2772		2772		2772		2772		2772
	2605		2853		2813		2813		2813		2813		2813
	2647		2895		2855		2855		2855		2855		2855
	2689		2936		2896		2896		2896		2896		2896
	2731		2978		2938		2938		2938		2938		2938
	2773		3019		2979		2979		2979		2979		2979
	2815		3061		3021		3021		3021		3021		3021
	2857		3102		3062		3062		3062		3062		3062
	2899		3144		3104		3104		3104		3104		3104
	2941		3185		3145		3145		3145		3145		3145
	2983		3227		3187		3187		3187		3187		3187
	3025		3268		3228		3228		3228		3228		3228
	3067		3310		3270		3270		3270		3270		3270
	3109		3351		3311		3311		3311		3311		3311
	3151		3393		3353		3353		3353		3353		3353
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	3277		3517		3477		3477		3477		3477		3477
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	3361		3600		3560		3560		3560		3560		3560
	3403		3642		3602		3602		3602		3602		3602
	3445		3683		3643		3643		3643		3643		3643
	3487		3725		3685		3685		3685		3685		3685
	3529		3766		3726		3726		3726		3726		3726
	3571		3808		3768		3768		3768		3768		3768
	3613		3849		3809		3809		3809		3809		3809
	3655		3891		3851		3851		3851		3851		3851
	3697		3932		3892		3892		3892		3892		3892
	3739		3974		3934		3934		3934		3934		3934
	3781		4015		3975		3975		3975		3975		3975
	3823		4057		4017		4017		4017		4017		4017
	3865		4098		4058		4058		4058		4058		4058
	3907		4140		4099		4099		4099		4099		4099
	3949		4182		4141		4141		4141		4141		4141
	3991		4223		4182		4182		4182		4182		4182
	4033		4265		4224		4224		4224		4224		4224
	4075		4306		4265		4265		4265		4265		4265
	4117		4348		4307		4307		4307		4307		4307
	4159		4389		4348		4348		4348		4348		4348
	4201		4431		4390		4390		4390		4390		4390
	4243		4472		4431		4431		4431		4431		4431
	4285		4514		4473		4473		4473		4473		4473
	4327		4555		4514		4514		4514		4514		4514
	4369		4597		4556		4556		4556		4556		4556
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	4453		4680		4639		4639		4639		4639		4639
	4495		4721		4680		4680		4680		4680		4680
	4537		4763		4722		4722		4722		4722		4722
	4579		4804		4763		4763		4763		4763		4763
	4621		4846		4805		4805		4805		4805		4805
	4663		4887		4846		4846		4846		4846		4846
	4705		4929		4888		4888		4888		4888		4888
	4747		4970		4929		4929		4929		4929		4929
	4789		5012		4971		4971		4971		4971		4971
	4831		5053		5012		5012		5012		5012		5012
	4873		5095		5054		5054		5054		5054		5054
	4915		5136		5095		5095		5095		5095		5095
	4957		5178		5137		5137		5137		5137		5137
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	5041		5261		5220		5220		5220		5220		5220
	5083		5302		5261		5261		5261		5261		5261
	5125		5344		5303		5303		5303		5303		5303
	5167		5385		5344		5344		5344		5344		5344
	5209		5427		5386		5386		5386		5386		5386
	5251		5468		5427		5427		5427		5427		5427
	5293		5510		5469		5469		5469		5469		5469
	5335		5551		5510		5510		5510		5510		5510
	5377		5593		5552		5552		5552		5552		5552
	5419		5634		5593		5593		5593		5593		5593
	5461		5676		5635		5635		5635		5635		5635
	5503		5717		5676		5676		5676		5676		5676
	5545		5759		5718		5718		5718		5718</		



DIMENSIONS LIST		OFFICIAL		DESIGN		MATERIAL		CONSTRUCTION		PROPERTY		REMARKS	
NO.	DESCRIPTION	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
54A1													
54A2													
54A3	CUT-ONE	5	27-1										
54A4	MI SHN												
54A5	SOC												
54D1													
54D2													
54D3	CUT-ONE	5	29-4										
54D4	MI SHN												
54D5	SOC												

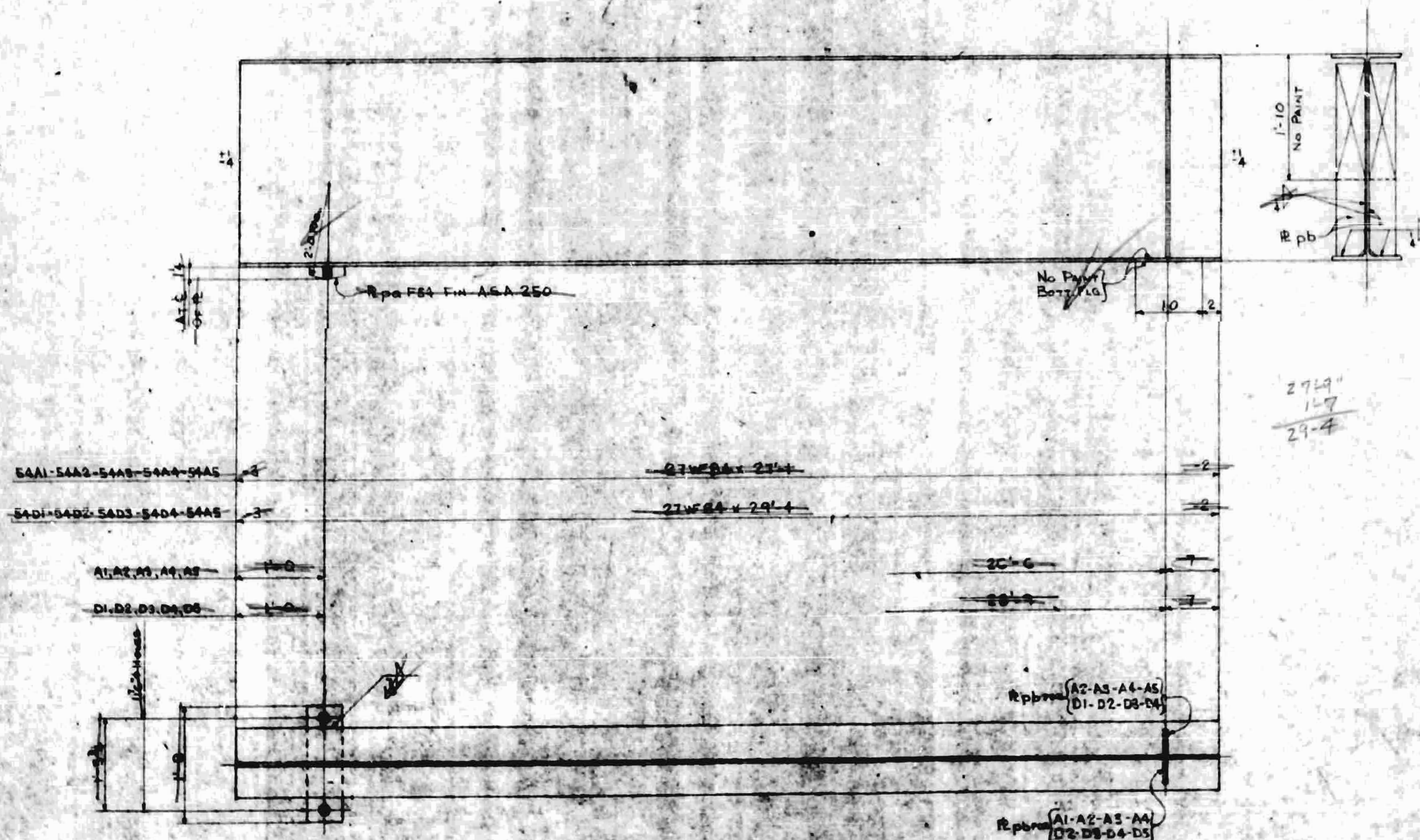
PROJECT NO. 8591101
 TAP # APD-34-165
 BUNCOMBE COUNTY
 STATION 13691840

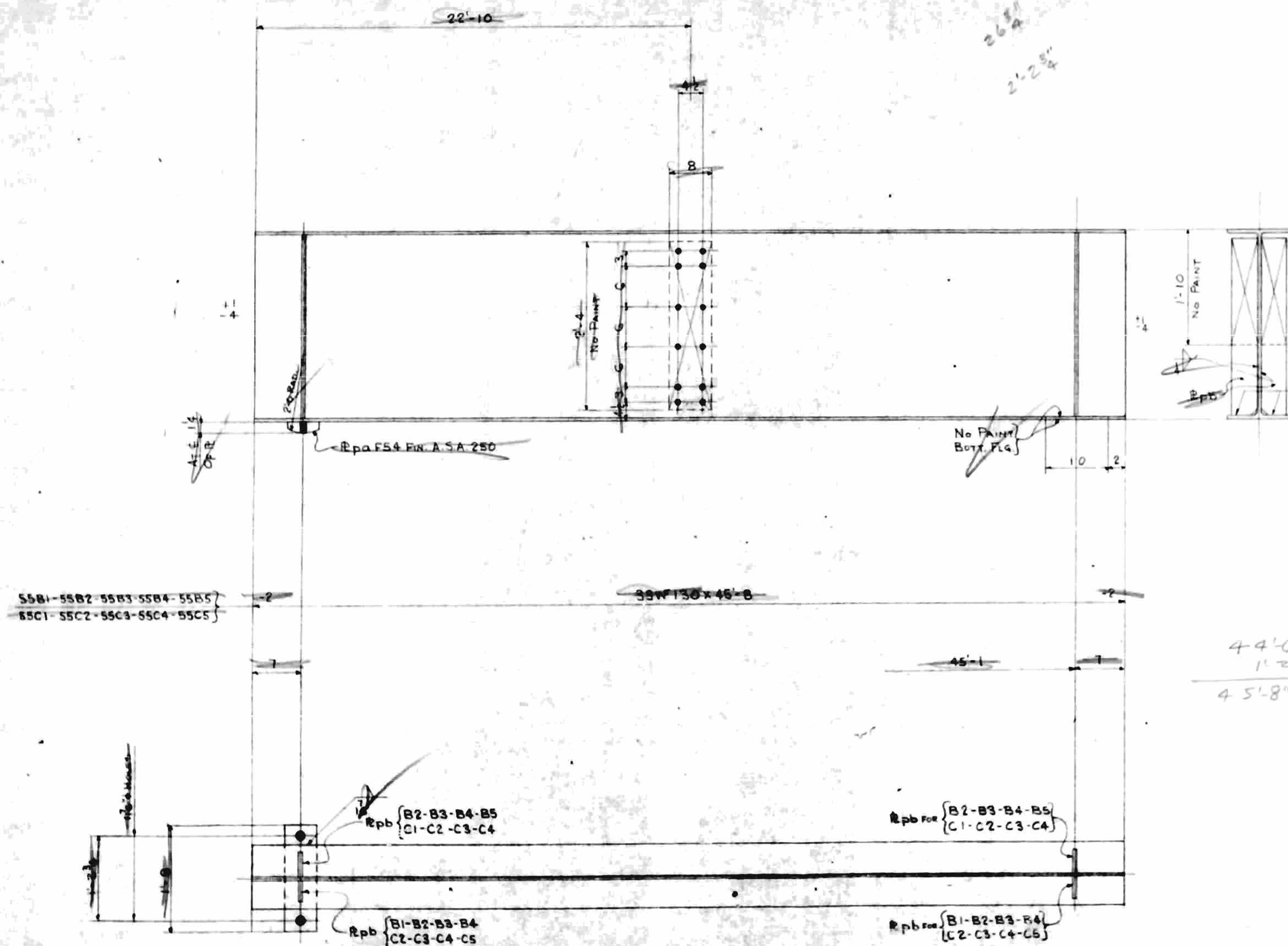
NOTES:
 (1) MACHINED SURFACES SHALL BE COVERED WITH A HOT MIXTURE OF WHITE LEAD AND YELLOW BURNING OILS.
 (2) MEASUREMENTS SHALL BE RECORDED AND FURNISHED TO THE INSPECTOR.

GENERAL NOTES:
 DESIGN BY: AS NOTED
 MOLE: NONE
 RIVETS: NONE
 SHOP PAINT: RED LEAD (N.C.H.W. Specs.)
 FIELD COAT: UNLESS NOTED
 INSPECTION BY: F.I.R.
 FABRICATION BY: SALEM STEEL CO.

ORDER NO. 66-2675
 DETAILS OF: 100000
 (FOR 50% E.P.R. USE ONLY)
 FOR: 100000 - 100000
 CUSTOMER: 100000
 AT: 100000

CAROLINA STEEL CO.
 100000





SHOP BILL

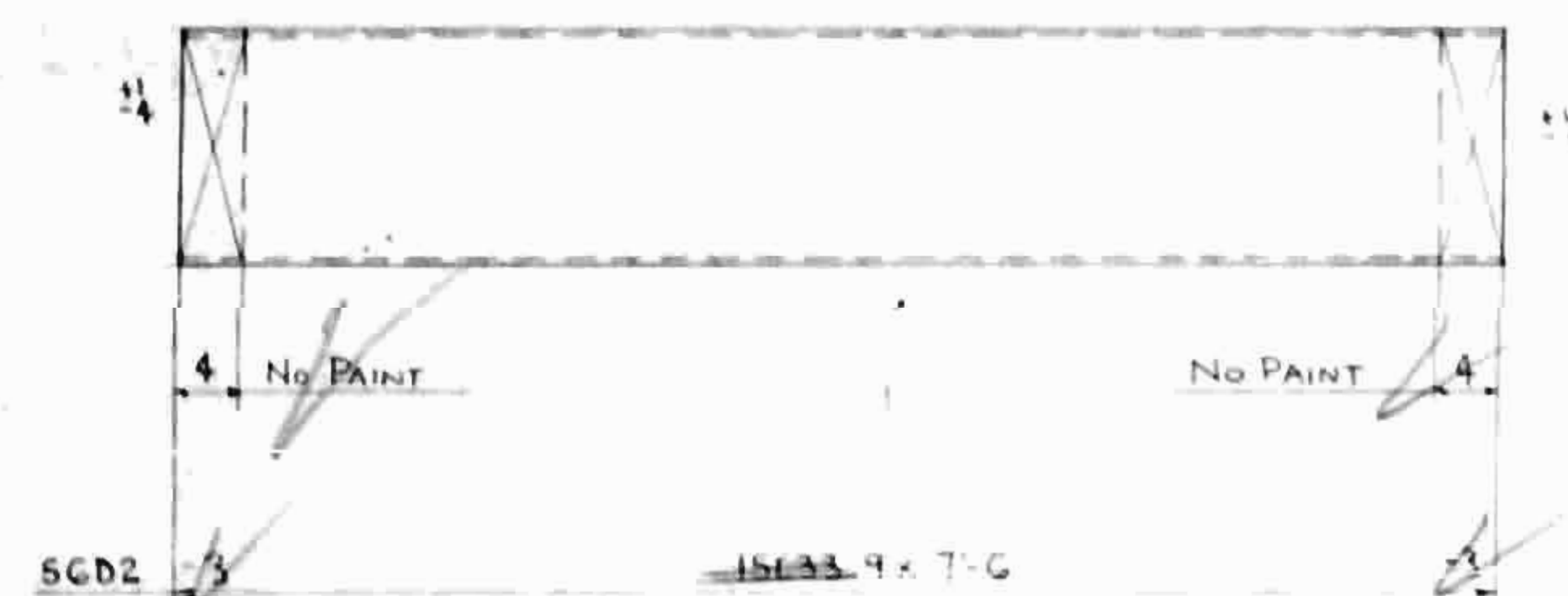
ITEM NO.	QUANTITY	UNIT	DESCRIPTION	REMARKS
55B1	1	LB	55B1	
55C5	1	LB	55C5	
55B2	1	LB	55B2	
55B3	1	LB	55B3	
55B4	1	LB	55B4	
55C2	1	LB	55C2	
55C3	1	LB	55C3	
55C4	1	LB	55C4	
55C1	1	LB	55C1	
55B5	1	LB	55B5	

PROJECT No. B 3191101
F.A.P. # APD-34-104
BUNCOMBE COUNTY
STATION: 36+12.00

NOTES:
(1) MACHINED SURFACES SHALL BE COVERED WITH A HOT MIXTURE OF WHITE LEAD AND TALLOW (N.C. HWY. SPECS.)
(2) HEAT NUMBERS SHALL BE PRESERVED AND VISIBLE TO THE INSPECTOR.

GENERAL NOTES		ORDER NO. GG-2695 A11	
DESIGN BY: J.E. UNLESS NOTED		DETAILS OF: GIRDERS	
HOLES: NONE		FOR: PARK ENTRANCE OVER WYRT	
RIVETS: RED LEAD (N.C. HWY. SPECS.)		CUSTOMER: WILSON CONSTRUCTION CO.	
SHOP PAINT: UNLESS NOTED		AT: BUNCOMBE COUNTY, N.C.	
FIELD CONDS:			
ERECTOR BY: F. R.		CAROLINA STEEL CORPORATION	
INSPECTION BY: SALEM STEEL CO.		OFFICE: R. S.	
FABRICATED BY:		HAND BY: RETHOLDS	
		CHECKED BY: [Signature]	
		DATE: [Date]	
		SCALE: [Scale]	

File



$$\begin{array}{r} 5'2 \\ 354 \\ \hline 810 \\ 15 \\ \hline 238 \end{array}$$

$$\begin{array}{r} 33\frac{1}{2} \\ 2058 \\ \hline 1212 \\ 412 \\ \hline 811 \end{array}$$

$$\begin{array}{r} 46 \\ 550 \\ \hline 2058 \end{array}$$

NO.	PROJECT	NAME	DATE	NO.	FEET	NO.	DESCRIPTION	FEET	NO.	REMARKS	NOTES
4		SGD1		2	30	2	SGD1	7	6		
4		SGD1		1	40	8	SGD1	2	3		
24		SGD2		6	30	2	SGD2	7	6		



PROJECT NO. 83191101
 F.A.P. # APD-34-16
 BUNCOMBE COUNTY
 STATION: 36+12.00

TOTAL WEIGHT

PROJECT No. B2191101
E.A.P. # APD-34-164
BUNCOMBE COUNTY
STATION: 36+12.00

File

GENERAL NOTES		ORDER NO. CG-2695 A71	
DESIGN BY		DETAILS OF DIAPHRAGMS	
MOLES 1/24		PARK ENTRANCE OVER WEST	
RIVETS NONE		FOR ASHEVILLE-WEAVERVILLE CONNECTION	
SHOP PAINT RED LEAD (N.C. HWY. SPEC.)		CUSTOMER WILSON CONSTRUCTION Co., Inc.	
FIELD CORING (UNLESS NOTED)		AT BUNCOMBE COUNTY, N.C.	
ERECTION BY			
INSPECTION BY F.R.		CAROLINA STEEL CORPORATION	
FABRICATION BY SALEM STEEL CO.		GREENSBORO, N.C.	

REVISIONS			
DATE	NO.	BY	CHANGE
	01		
	02		
	03		
	04		

MADE BY REYNOLDS	SHIP BILL NO.
TRACED BY	
CHECKED BY W. H. BOWEN	
SCALE 1" = 10'	ATTN