

SECTION 13, T.5N., R.2W., S.L.B. & M.

IN ROY CITY

SCALE 1"=100'

TAXING UNIT: 41

SEE PAGE 103-2

BERWICK VILLAGE PUD

SEE PAGES 305 TO 307

RGA LC  
081040026

HILLSITE SUB.

5100 SOUTH ST.

SEE PAGE 105

SILVER CREEK CENTER DEVELOPMENT AMENDED  
SEE PAGE 377

ROYAL VIEW  
CENTER CONDO  
SEE PG 399

QUESTAR GAS CO  
081040022

JORGENSEN FAMILY  
TRUST, LLC  
081040024

JESSE ANNA  
PARRO, ETAL  
081040021

PARRO-SON  
H & S TRUST, LLC  
081040056

RONALD KIM KELLER  
& CINDY T KELLER  
081040017

VORWALLER INVESTMENTS, LLC  
081040016

PHILLIPS 66 ROY LLC  
081040014

SEE  
081140027

GLEN DEW SPIRIT ELKS LODGE  
NO 719 BPOC  
(081040012)

CITY PROPERTIES LLC  
081040005

CITY PROP. LLC.  
081040007

U-84  
081040026

WEST

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SEE BOOK  
9  
PAGE  
1













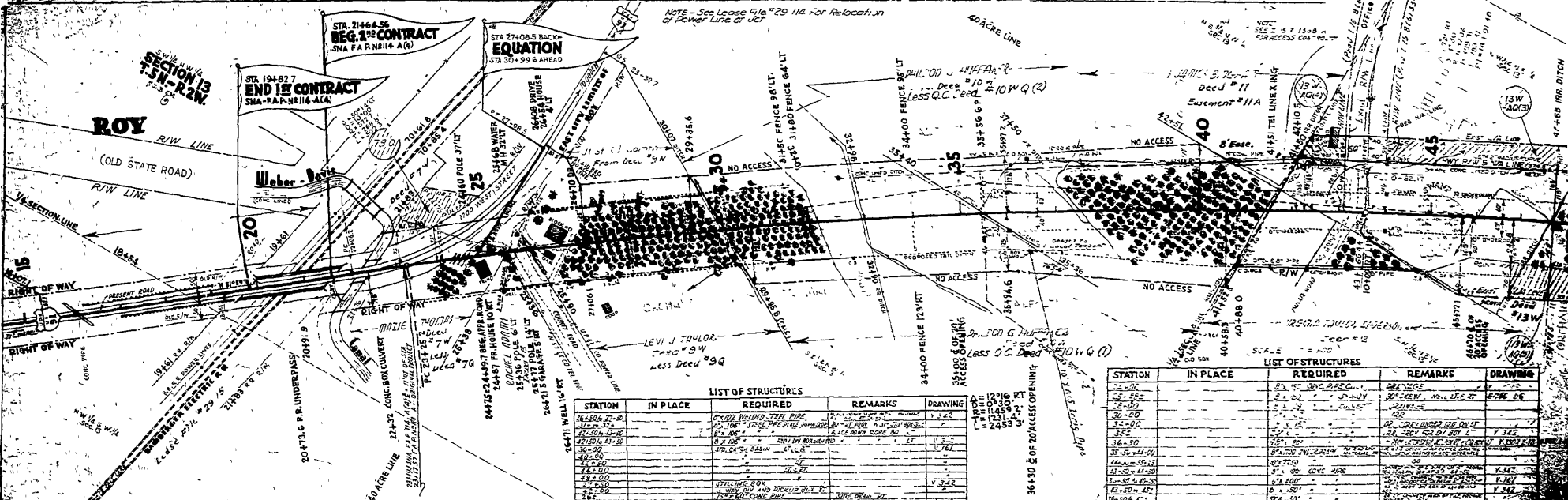




PARCEL NO.	GRANTEE	NET AC.
174 A 124 210-1	A. W. TULLY-DA	0.15
174 A 53	A.E. - T. RAYNER	1.16
75.9	C. W. D. L. SHAFER ET AL	0.23
W. V. Q. 1	A. DELESTRA	4.43
W. V. Q. 2	L. LAWERS ET AL	3.78
13 W - AQ(3)	E. GRANT HIBB ET UX	0.86 (JUDGEMENT)

UTAH	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
UTAH	UTAH	11-1(2)	4	24

REVISED: 4-23-65  
 REVISED: 8-26-68  
 REVISED: 3-31-69  
 REVISED: 2-5-74  
 REVISED: 2-14-74



NOTE - See Lease #16 #29 114 for Relocation of Power Line of UCR

LEVI J. TAYLOR  
 2650 9W  
 Less Deed #99

LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
26471	Well 16 FT			
26472	Well 16 FT			
26473	Well 16 FT			
26474	Well 16 FT			
26475	Well 16 FT			
26476	Well 16 FT			
26477	Well 16 FT			
26478	Well 16 FT			
26479	Well 16 FT			
26480	Well 16 FT			
26481	Well 16 FT			
26482	Well 16 FT			
26483	Well 16 FT			
26484	Well 16 FT			
26485	Well 16 FT			
26486	Well 16 FT			
26487	Well 16 FT			
26488	Well 16 FT			
26489	Well 16 FT			
26490	Well 16 FT			
26491	Well 16 FT			
26492	Well 16 FT			
26493	Well 16 FT			
26494	Well 16 FT			
26495	Well 16 FT			
26496	Well 16 FT			
26497	Well 16 FT			
26498	Well 16 FT			
26499	Well 16 FT			
26500	Well 16 FT			
26501	Well 16 FT			
26502	Well 16 FT			
26503	Well 16 FT			
26504	Well 16 FT			
26505	Well 16 FT			
26506	Well 16 FT			

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
26471	Well 16 FT			
26472	Well 16 FT			
26473	Well 16 FT			
26474	Well 16 FT			
26475	Well 16 FT			
26476	Well 16 FT			
26477	Well 16 FT			
26478	Well 16 FT			
26479	Well 16 FT			
26480	Well 16 FT			
26481	Well 16 FT			
26482	Well 16 FT			
26483	Well 16 FT			
26484	Well 16 FT			
26485	Well 16 FT			
26486	Well 16 FT			
26487	Well 16 FT			
26488	Well 16 FT			
26489	Well 16 FT			
26490	Well 16 FT			
26491	Well 16 FT			
26492	Well 16 FT			
26493	Well 16 FT			
26494	Well 16 FT			
26495	Well 16 FT			
26496	Well 16 FT			
26497	Well 16 FT			
26498	Well 16 FT			
26499	Well 16 FT			
26500	Well 16 FT			
26501	Well 16 FT			
26502	Well 16 FT			
26503	Well 16 FT			
26504	Well 16 FT			
26505	Well 16 FT			
26506	Well 16 FT			

LIST OF STRUCTURES

36-50' 0" 20' ACCESS OPENING

413-00 WELL 55 FT  
 413-00 ROAD  
 413-00 CHICKEN COOP 12' x 18' LT.  
 413-00 TRUCK DRIFT  
 413-00 LONG PEN ON E

Office Revision  
 (Part 118 B.C. 1114)

13 W - AQ(1)  
 40+88.0

40+88.0

40+88.0

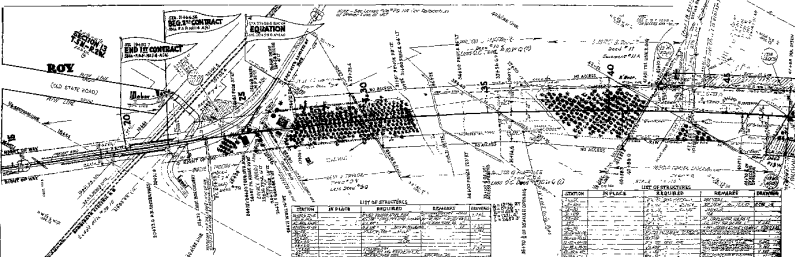
40+88.0

40+88.0

PARCEL	GRANTEE	NET AC.	SQFT.
ROY CTY		200	OLD STATE ROAD

PARCEL NO	GRANTEE	NET AC
1	ROY CTY	200
2	ROY CTY	200
3	ROY CTY	200
4	ROY CTY	200
5	ROY CTY	200
6	ROY CTY	200
7	ROY CTY	200
8	ROY CTY	200
9	ROY CTY	200
10	ROY CTY	200

DATE	BY	REVISION	DESCRIPTION
10-1-43	J.A.	1	INITIAL
10-1-43	J.A.	2	REVISION
10-1-43	J.A.	3	REVISION
10-1-43	J.A.	4	REVISION
10-1-43	J.A.	5	REVISION



LIST OF STRUCTURES

SECTION	IN PLACE	REMOVED	REMARKS	REVISION
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

LIST OF STRUCTURES

SECTION	IN PLACE	REMOVED	REMARKS	REVISION
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				







S.W. 1/4, N.W. 1/4  
**SECTION 13**  
T.5N.~R.2W.  
S. 1, 2, 3, 4, 5, 6

**ROY**

STA. 19+82.7  
**END OF SN-EA.P.**  
N2114-A(4)

1ST SECTION

**Weber Davis**

STA. 27+08.5 BACK =  
**EQUATION**  
STA. 30+99.4 AHEAD

26408 DRIVE  
26464 HOUSE  
26464 LT.

EAST CITY LIMITS OF  
ROY

1/4 SECTION LINE

SIMON BOMBERGER

15

18+54

20

19+61

25

24480 POLE 37' LT.

25+68 WATER  
M.H. 32' LT.  
R.W.

70+161.8

70+85.4

21+83

21+247.0

RIGHT OF WAY

PRESENT ROAD

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

50' ALG. R.W.

RIGHT OF WAY

CONC. PIPE

19+61 P.B. R.W.

B.E. & E. POWER LINES

21+83 P.B. R.W.

20+735.8 UNDER PASS

20+101.9

22+32 CONC. BOX CULVERT

40 ACRE LINE

RIGHT OF WAY

MARIE THOMAS

P.C. 23+25.2

Parcel No  
FAP 148-70  
1-29 A-714

24+578.6

24+578.6

24+578.6

25+366

25+771 POLE 14' LT.

264-21.5 GARAGE 5' HT.

264-711 WELL 16' HT.

N.W. 1/4 S.W. 1/4  
Sec. 13

21+83

BOMBERGER ELECTRIC R.R.

(Land)

24+578.6

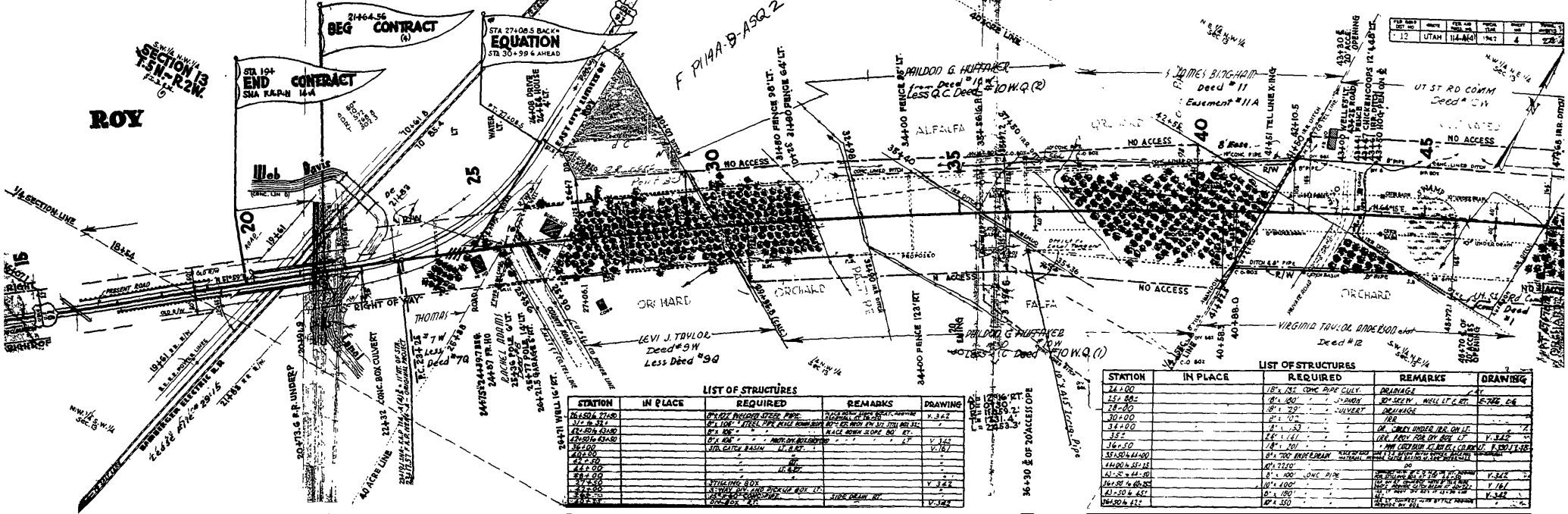
24+578.6

24+578.6

24+578.6

24+578.6

PER. MAP	DATE	PER. NO.	SECTION	RANGE	TOWNSHIP
12	UTAH	114-84	1947	4	22



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
26+50 to 27+50	5" DIA. ENLARGED STEEL PIPE	5" DIA. ENLARGED STEEL PIPE	5" DIA. ENLARGED STEEL PIPE	V. 342
27+50 to 28+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
28+00 to 28+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
28+50 to 29+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
29+00 to 29+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
29+50 to 30+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
30+00 to 30+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
30+50 to 31+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
31+00 to 31+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
31+50 to 32+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
32+00 to 32+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
32+50 to 33+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
33+00 to 33+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
33+50 to 34+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
34+00 to 34+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
34+50 to 35+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
35+00 to 35+50	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342
35+50 to 36+00	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	8" x 10" STEEL PIPE	V. 342

LIST OF STRUCTURES

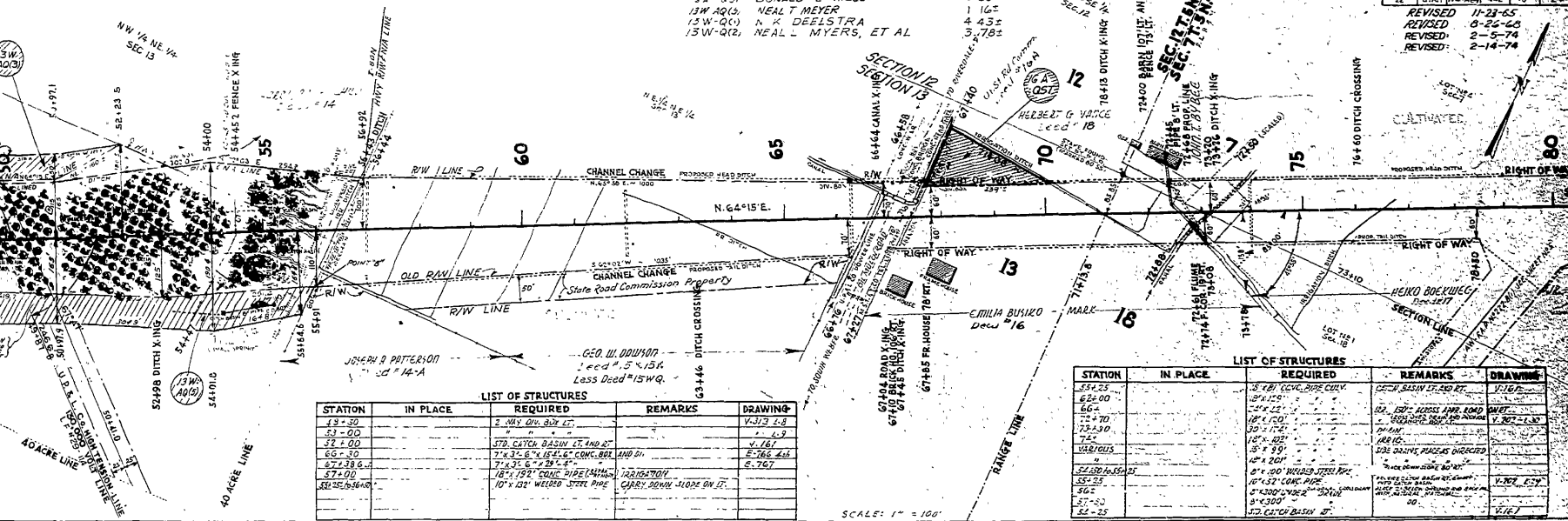
STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
28+00	18" x 15" CONC. PIPE CULV.	18" x 15" CONC. PIPE CULV.	DRAINAGE	V. 342
28+00	18" x 15" CONC. PIPE CULV.	18" x 15" CONC. PIPE CULV.	DRAINAGE	V. 342
30+00	24" x 18" CONC. PIPE CULV.	24" x 18" CONC. PIPE CULV.	DRAINAGE	V. 342
30+00	24" x 18" CONC. PIPE CULV.	24" x 18" CONC. PIPE CULV.	DRAINAGE	V. 342
35+	24" x 18" CONC. PIPE CULV.	24" x 18" CONC. PIPE CULV.	DRAINAGE	V. 342
36+50	18" x 15" CONC. PIPE CULV.	18" x 15" CONC. PIPE CULV.	DRAINAGE	V. 342
35+50 to 41+00	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
41+00 to 55+15	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
41+00 to 44+00	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
44+00 to 45+00	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
45+00 to 45+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
45+50 to 46+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
46+50 to 47+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
47+50 to 48+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
48+50 to 49+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
49+50 to 50+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
50+50 to 51+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
51+50 to 52+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
52+50 to 53+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
53+50 to 54+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342
54+50 to 55+50	8" x 10" CONC. PIPE	8" x 10" CONC. PIPE	DRAINAGE	V. 342

PARCEL NO. OWNER. NET AC. SQ. FT. PARCEL NO. SOLD TO. NET AC.

114-A: 13W-AQ(3) E GRANT GIBBY, ET UX  
 2 231 DONALD E HIGGS  
 13W-AQ(5) NEAL T MEYER  
 13W-Q(1) N K DEELSTRA  
 13W-Q(2) NEAL L MYERS, ET AL

0 86± (JUDGEMENT)  
 0 30  
 1 16±  
 4 43±  
 3 78±

REVISED	DATE
REVISED	11-23-65
REVISED	6-26-68
REVISED	2-5-74
REVISED	2-14-74



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
19+30		2 MAY DIV. BOX LT.		V-313 2-8
53+00				V-19
32+00		STD. CATCH BASIN LT. AND RT.		V-161
66+30		7'x3'-6" x 15'-6" CONC. BOX AND DI.		E-766 4th
67+38.6		7'x3'-6" x 24'-4"		E-767
57+00		18" x 192" CONC PIPE (MIN.)	IRRIGATION	
55+25 to 56+0		10" x 132" WELDED STEEL PIPE	CARRY DOWN SLOPE ON IT.	

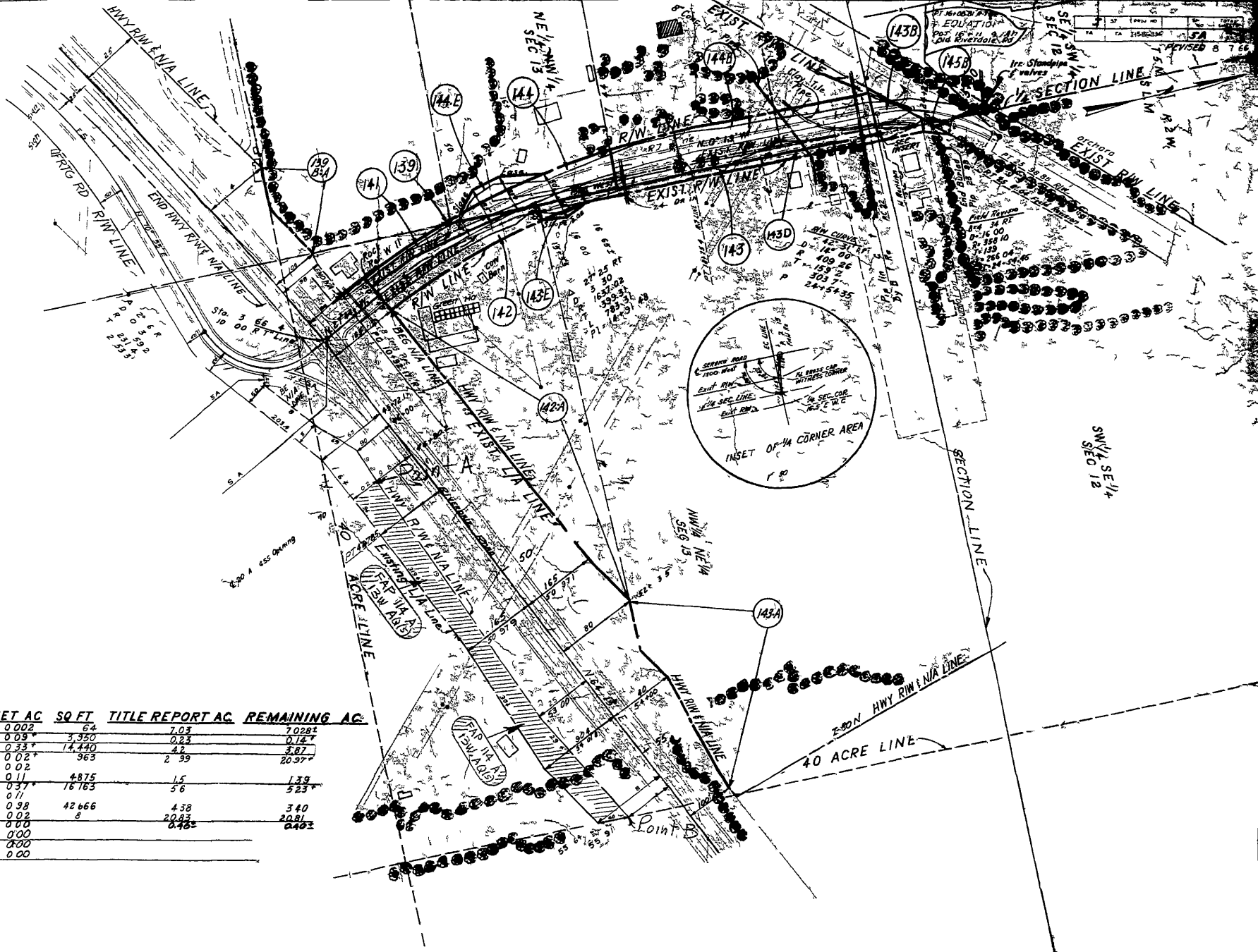
LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
55+25		15" x 81" CONC. PIPE CURV.	CATCH BASIN LT. AND RT.	V-161
62+00		18" x 15'		
66+		18" x 12'		
72+70		18" x 120'		
73+30		30" x 12'		
74+		18" x 102'		
VARIOUS		15" x 99'	SIDE DRAINS, PLACE AS DIRECTED	
		12" x 201'		
54+50 to 55+25		8" x 100" WELDED STEEL PIPE		
55+25		10" x 52" CONC. PIPE		
56+		8" x 300" UNDER DRAIN		
57+30		8" x 300"		
52+25		STD. CATCH BASIN RT.		V-161

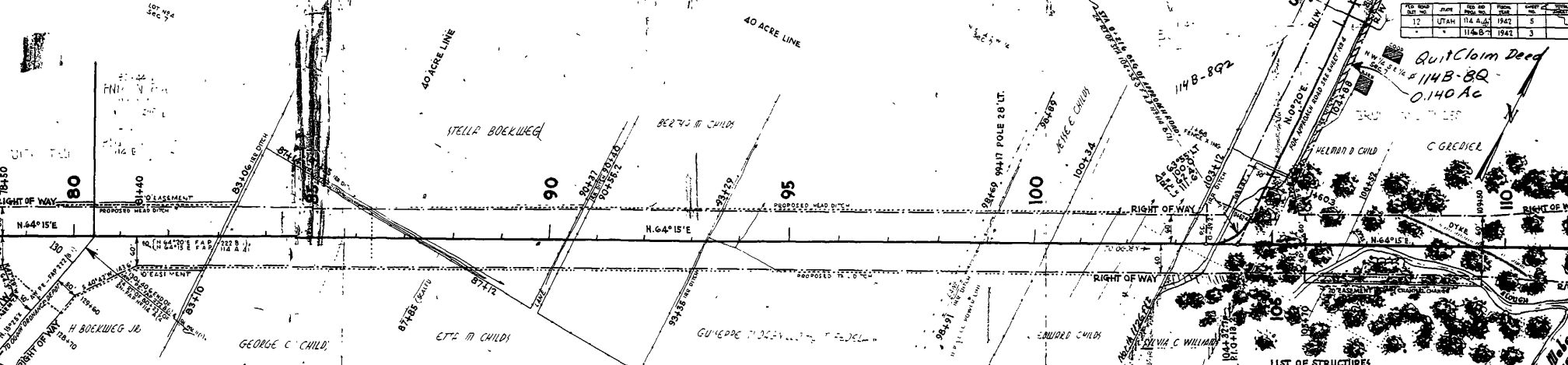
SCALE: 1" = 100'



RCEL NO.	OWNER	NET AC	SQ FT	TITLE REPORT AC	REMAINING AC
8139	ROWLAND S BINGHAM ET AL	0.002	64	7.03	7.028
144	HENRY DEE ET AL	0.03*	3,950	0.23	0.14*
142	F GRANT GIBBY ET AL	0.33*	14,440	4.2	3.87
143	HARRISON B CHILD ET AL	0.02*	965	2.99	20.97*
143 E		0.02			
143 B	ALMA L ELLIS ET AL	0.11	4,875	1.5	1.39
144	EZRA E BINGHAM ET AL	0.37*	16,183	5.6	5.23*
144 E		0.11			
144 B	GOLDEN A BINGHAM ET AL	0.98	42,666	4.38	3.40
145 B	FRANK D WARNER ET AL	0.02	8	20.83	20.81
143 D	DOUGLAS W LOWELL	0.00		0.46	0.46
142 A	F GRANT GIBBY ET AL	0.00			
143 A	HARRISON B CHILD ET AL	0.00			
139 B A	ROWLAND S BINGHAM ET AL	0.00			



LOT 184  
SEC 7



RD ROAD	CLASS	ESTD	FROM	SHEET	TOTAL
12	UTAH	114 A	1942	5	
		114 B	1942	3	

**Quit Claim Deed**  
# 114B-8Q  
0.140 Ac

SECTION 7  
SECTION 18  
T.5N.-R.1W.  
P.L.S. & W.  
SEC 7

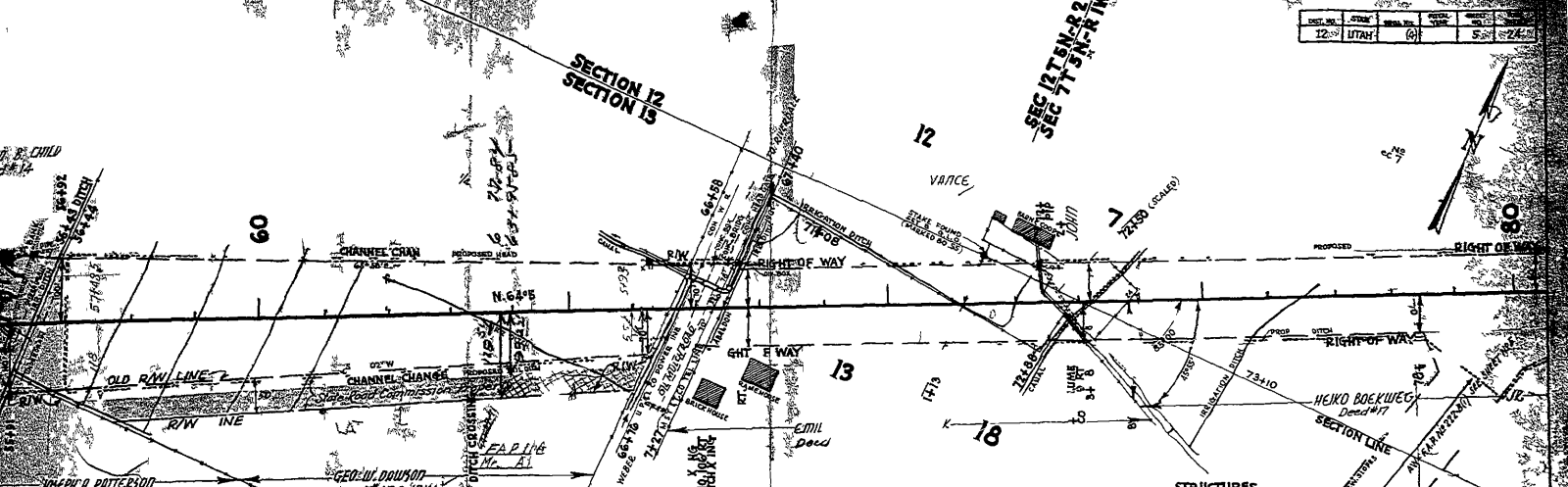
LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
8	✓	✓		
9	✓	✓		
10	✓	✓		
11	✓	✓		
12	✓	✓		
13	✓	✓		
14	✓	✓		
15	✓	✓		
16	✓	✓		
17	✓	✓		
18	✓	✓		
19	✓	✓		
20	✓	✓		
21	✓	✓		
22	✓	✓		
23	✓	✓		
24	✓	✓		
25	✓	✓		
26	✓	✓		
27	✓	✓		
28	✓	✓		
29	✓	✓		
30	✓	✓		
31	✓	✓		
32	✓	✓		
33	✓	✓		
34	✓	✓		
35	✓	✓		
36	✓	✓		
37	✓	✓		
38	✓	✓		
39	✓	✓		
40	✓	✓		
41	✓	✓		
42	✓	✓		
43	✓	✓		
44	✓	✓		
45	✓	✓		
46	✓	✓		
47	✓	✓		
48	✓	✓		
49	✓	✓		
50	✓	✓		

1/4 SECTION LINE  
FAP 114B-8W  
4.66 Ac

Quit Claim Deed  
114B-8Q  
170 Ac

Major River



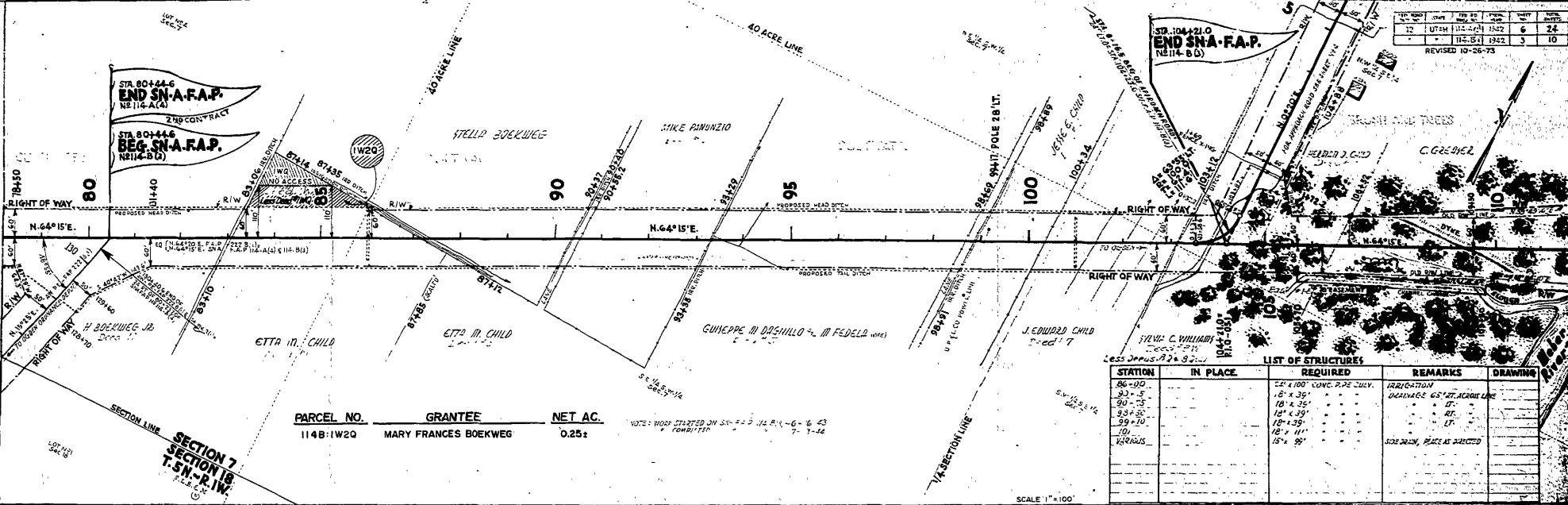
**STRUCTURES**

STATION	ACE	REMARKS	DIVISION
18+30		80' LT.	1948
53+00			9
52+00		STD. CATCH BASIN 14 AND RT	
56+30		7'x3'-6" CONC. PIPE	1766
57+00		7'x3'	1767
57+00		1" 192 CONC. PIPE	
57+00		10" x 12" WELDED STEEL PIPE	

**STRUCTURES**

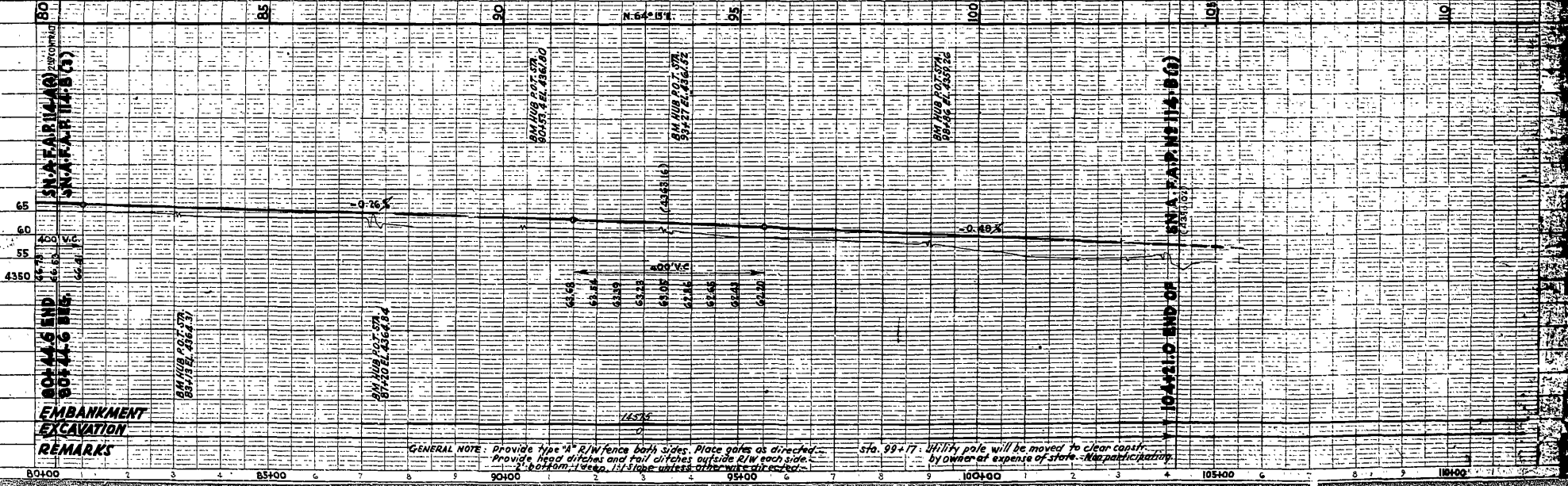
STATION	STRUCTURES	RAWING
55	CONC. PIPE	CATCH BASIN
		150' ACROSS APPR ROAD ON RT
		DEPT. OVER DRAIN AND PROVIDE CLEARANCE 200' LT.
		30'
		DRAIN
		DRAINS PLACE AS DIRECTED
		20'
54	0'x' WELDED STEEL PIPE	PLACE DOWN 30' RT
55+25	CONC. PIPE	PROVIDE CATCH BASIN BY SHARP TURN BASIN
		202' L-59'
		1300' UNDER DRAIN
		300'
57		STD. CATCH BASIN - RT
50		161'

RANGE 7E



STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
86+00		24" x 100' CONC. PIPE CULV.	IRRIGATION	
93+35		18" x 36"	UNDERPASS 63' AT ACROSS LINE	
90+35		18" x 36"	" "	
93+30		18" x 39"	" "	
99+70		18" x 39"	" "	
100		18" x 41"	" "	
100+34		18" x 36"	" "	
100+34		18" x 36"	" "	

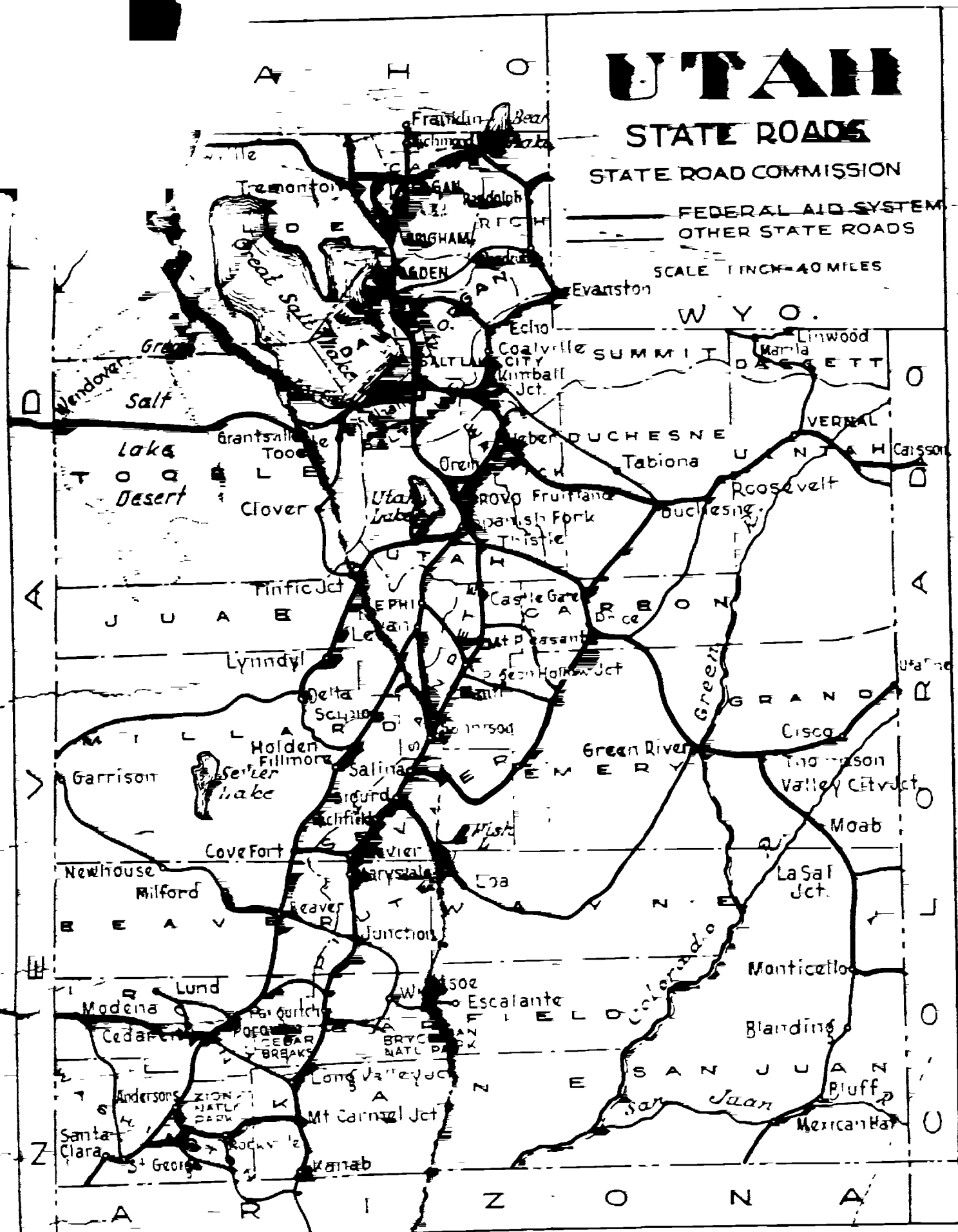
LESS DRAINAGE 276.82±





# STATE OF UTAH

## STATE ROAD COMMISSION



### PLANS OF PROPOSED STATE ROAD

FEDERAL AID PROJECT

**SN-A-F.A.R. NO. 114-A(4) - LENGTH 1.308 MILES**  
**SN-A-F.A.R. NO. 114-B(3) - LENGTH 0.450 MILES**

**INDEX TO SHEETS SN-A-F.A.R. NO. 114-A(4) 2ND CONTRACT**

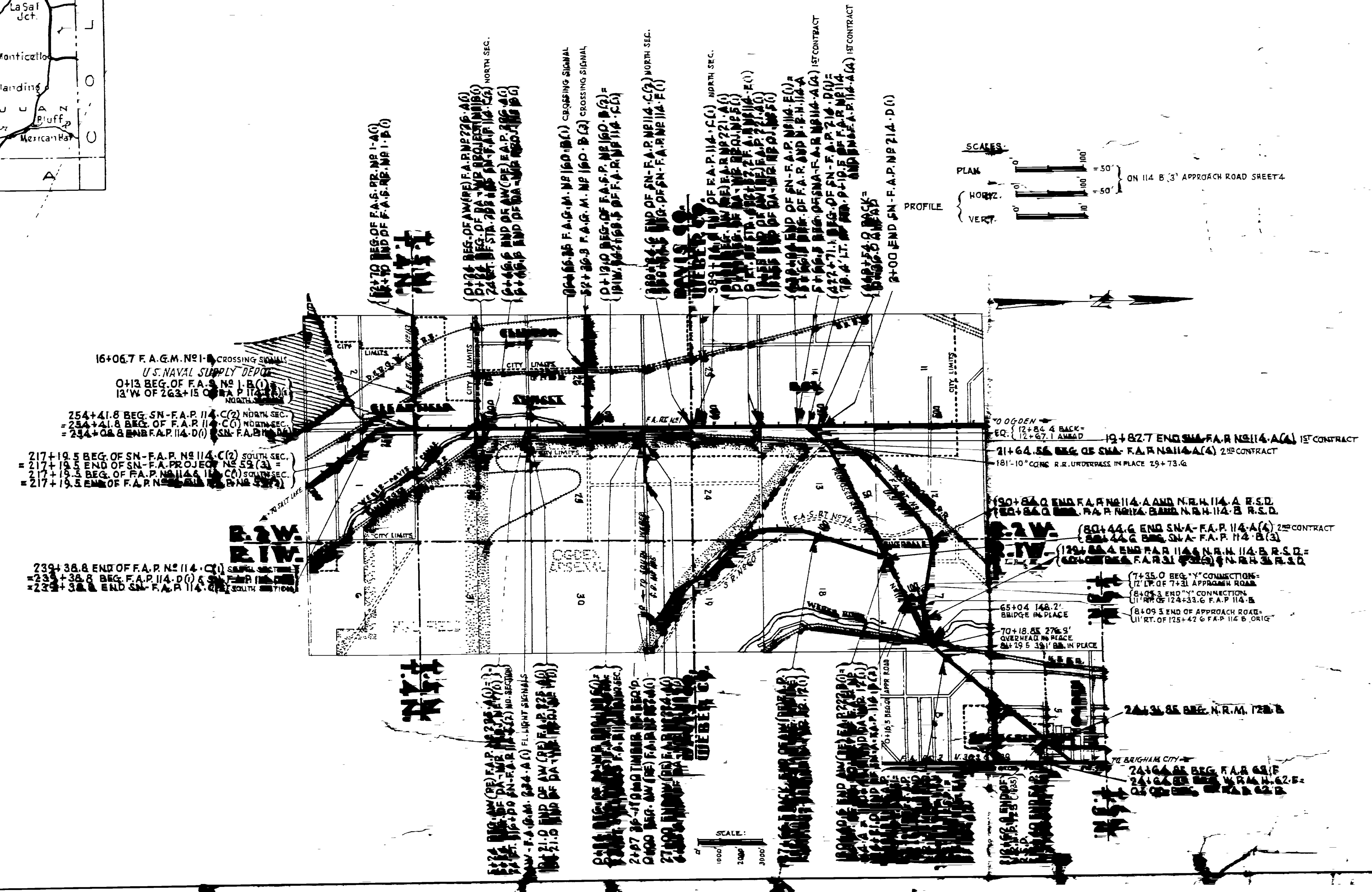
SHEET	DESCRIPTION	DRAWING NO.	STATUS
1	TITLE SHEET		
2-B, 7-C	TYPICAL SECTIONS		
4-6	PLAN AND PROFILE		
7	CHANNELIZATION		
8	DETAILS OF CONSTR. FOR P.C. CONC. PAVEMENT	B-94	
9-10	STD. HIGHWAY SIGNS	B-95, 112	
11	CATCH BASINS	V-16	
12	CONC. SYPHON WELLS	E-749	
13	DRAINAGE AND IRRIGATION STRUCTURES	V-342	
14	CATCH BASIN	V-330, 116	
15	CLEAN OUT BOXES	V-202, 118	
16	DIVERSION BOXES	V-33	
17	18"x8"x10'-6" CONC. BOX (REVISION)	V-340	
18-21	7"x3'-6" x 15'-6" CONC. BOX AND DIV.	E-766	
22	7"x3'-6" x 2'-4" " "	E-767	
23	STD. CURB AND GUTTER	B-48-1	
24-A	R/W FENCE AND GATES	M-26	
24-B	SUPERELEVATION OF CURVES	M-37	
2-3, 4	X-SECTIONS		

**INDEX TO SHEETS SN-A-F.A.R. NO. 114-B(3)**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2A	TYPICAL SECTION
3	PLAN AND PROFILE
4	CHANNELIZATION
5	STD. CURB AND GUTTER
6	REINFORCING AND JOINT DETS.
7	STD. HEADGATE AND OUTLETS
8	CATCH BASIN RT.
9	" " " LT.
10, 11	STD. HIGHWAY SIGNS
12-A	R/W MARKERS
12-B	WIDEN AND SUPER CURVES
13	STD. DRIVEWAYS
14, 4, 7	X-SECTIONS

**INDEX TO SHEETS SN-A-F.A.P. NO. 114-A(4)**

SHEET	DESCRIPTION
1	TITLE SHEET
2, 7-A	TYPICAL SECTIONS
3-4	PLAN AND PROFILE
5	CHANNELIZATION
6	DETAILS OF CONSTR. OF P.C. CONC. PAVEMENT
7-8	STD. HIGHWAY SIGNS
9	CURB AND GUTTER
10-A	R/W FENCE AND GATES
10-B	SUPERELEVATION OF CURVES
11-8	X-SECTIONS



APPROVED MARCH 1942

STATE ROAD COMMISSION OF UTAH

*(Signature)* DESIGN ENG.

RECOMMENDED FOR APPROVAL

RECOMMENDED FOR APPROVAL

RECOMMENDED FOR APPROVAL

APPROVED

# STATE OF UTAH STATE ROAD COMMISSION

## PLANS OF PROPOSED STATE ROAD

FEDERAL AID PROJECT  
 SN-A-F.A.P. No 114-A(4) ~ LENGTH 1.385 MILES  
 SN-A-F.A.P. No 114-B(3) ~ LENGTH 0.450 MILES

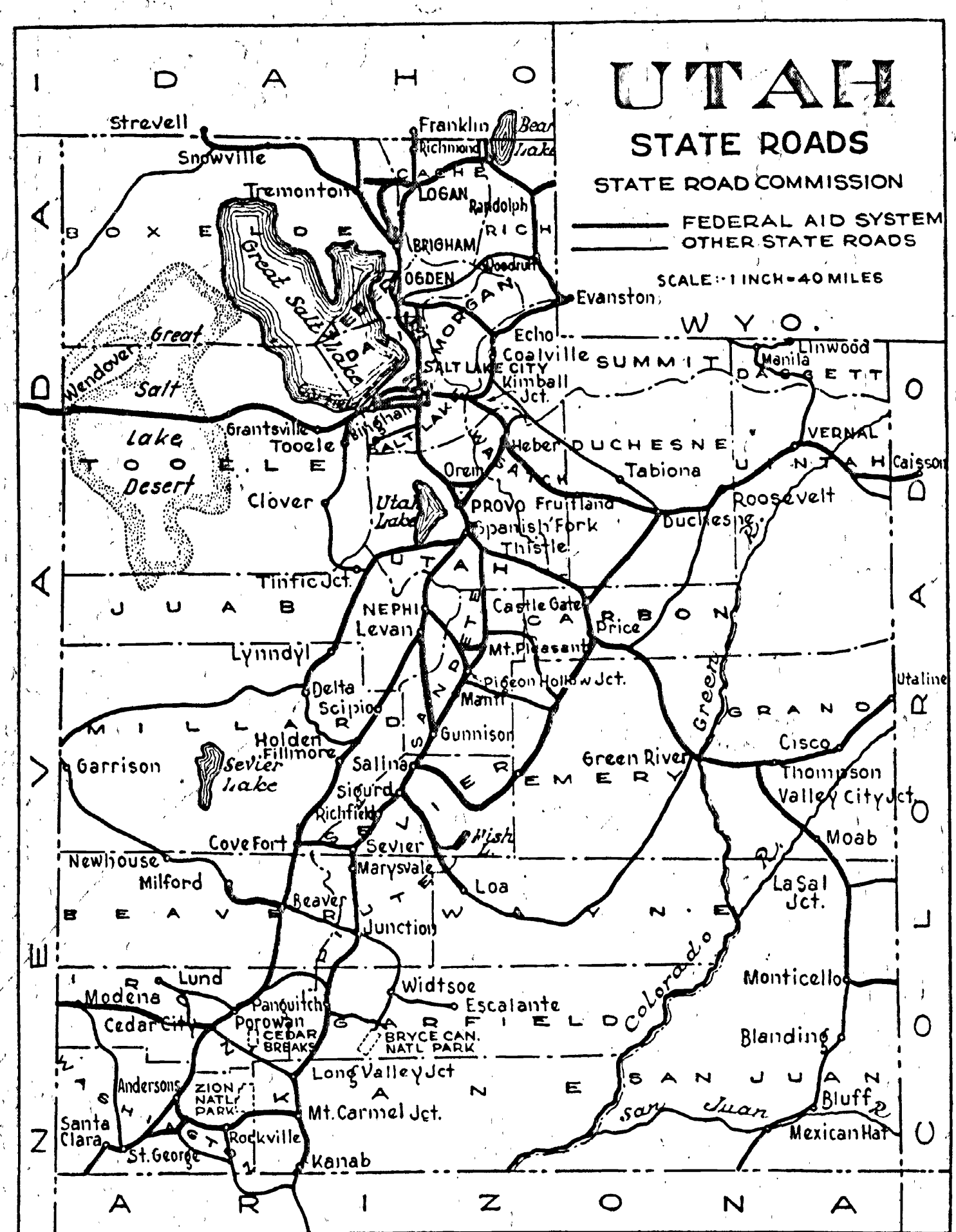
UI-31(4) ~ LENGTH 0.240 MILES  
 UG1-31(5) ~ LENGTH 0.379 MILES  
 DA-WR PROJ. No 156 (1) ~ LENGTH 0.412 MILES  
 SN-F.A.P. No 114-C(3) ~ LENGTH 0.389 MILES  
 F.A.G.M. 49(3) ~ AUTO. GATE X-ING SIGNALS  
 WEBER COUNTY  
 UI-123(4) ~ LENGTH 1.091 MILES

INDEX TO SHEETS UI-123(4)

SHEETS	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2	TYPICAL SECTION		
3-6	PLAN AND PROFILE		
7-9	CHANNELIZATION		
10-11	LAYOUT OF SOUTH AND NORTH LEGS		
12	P.C. CONC. PAVING DETAIL	B-94	
13	STD. CURB AND GUTTER	B-48-1	
14	STD. HIGHWAY SIGNS	B-95-1,2	
15-17	14" 0" O.D. CONC. UNDERPASS	C-244	4+37.1
18	STD. HANDRAIL	SR 2	*
19	DRAINAGE LAYOUT & CLEANOUT BOXES	V-368 (4 SH)	VARIOUS
20	STD. CATCH BASINS & CLEANOUTS	V-175 & L75	883 & 84
21-21A	F.A.P. MARKERS	M-153	
22-A	R/W MARKERS	M-45-1	
22-B	STD. R/W FENCE	M-46	
22-C	42" 36" CONC. PIPE REDUCER	M-196	
22-D	X-SECTIONS		

INDEX TO SHEETS SN-A-F.A.P. No 114-A(4) 2ND CONTRACT

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2, B, 2, C	TYPICAL SECTIONS		
3-4	PLAN AND PROFILE		
5	CHANNELIZATION		
6	DETAILS OF CONSTR. FOR P.C. CONC. PAVEMENT	B-94	
7-10	STD. HIGHWAY SIGNS	B-95, 1, 2	
11	" CATCH BASINS	V-161	VARIOUS
12	CONC. SYPHON WELL	E-746	25+88
13	DRAINAGE AND IRRIGATION STRUCTURES	V-342	VARIOUS
14	CATCH BASIN	V-331, L18	34+50
15	CLEAN OUT BOXES	V-207	VARIOUS
16	DIVERSION BOXES	V-313	162-8
17	18" B'x10-6" CONC. BOX (REVISION)	V-340	22+32
18-21	7'x3'-6" x 15'-6" CONC. BOX AND DIV.	E-766	66+30
19	7'x3'-6" x 29'-4" " "	E-767	LT. 67+38.6
22	STD. CURB AND GUTTER	B-48-1	
23	STD. CATCH BASINS	V-175 (4)	
24-A	R/W FENCE AND GATES	M-46	
24-B	SUPERELEVATION OF CURVES	M-37	
25-30	VARIOUS TYPES OF CURB AND GUTTER	B-48-1	
31-37	STD. ROADWAY SIGNS	B-95, 1, 2	
38-43	X-SECTIONS		
44-47	CROSS SECTIONS		



INDEX TO SHEETS DA-WR PROJ. No 156 (1)

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2-2A	TYPICAL SECTIONS		
3-4	PLAN AND PROFILE		
5	CHANNELIZATION		
6	LAYOUT OF SOUTH AND NORTH LEGS		
7	P.C. CONC. PAVING DETAIL	B-94	
8	STD. CURB AND GUTTER	B-48-1	
9-10	STD. HIGHWAY SIGNS	B-95-1,2	
11-18	14" 0" O.D. CONC. UNDERPASS	C-244	4+37.1
19	STD. HANDRAIL	SR 2	*
20	DRAINAGE LAYOUT & CLEANOUT BOXES	V-368 (4 SH)	VARIOUS
21-21A	STD. CATCH BASINS & CLEANOUTS	V-175 & L75	883 & 84
22-A	F.A.P. MARKERS	M-153	
22-B	R/W MARKERS	M-45-1	
22-C	STD. R/W FENCE	M-46	
22-D	42" 36" CONC. PIPE REDUCER	M-196	
23-29	X-SECTIONS		

INDEX TO SHEETS F.A.G.M. 49(3)

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2	SITUATION PLAN		
3	SIGNALS & ACCESSORY EQUIP'T.	UR-C-3766	
4	AUTOMATIC GATE SIGNAL COMBIN.	UP-C-3766	
5-8	WIRING DIAGRAMS (5 Sheets)	UP-C-4442	
9	ILL. "NO LEFT TURN" SIGN	J-488	

INDEX TO SHEETS UI-31(4)

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2	TYPICAL SECTION		
3-4	PLAN AND PROFILE		
5	CHANNELIZATION		
6	DETAILS OF CONSTR. OF P.C. CONC. PAVEMENT	B-94	
7-9	STD. HIGHWAY SIGNS	B-95, 1, 2	
10	STD. CURB AND GUTTER	B-48-1	
11	STD. HIGHWAY SIGNS	B-95, 1, 2	
12	R/W MARKERS	M-45	
13	WIDEN AND SUPER. CURVES	M-37	
14	STD. DRIVEWAYS	B-52	
15-17	X-SECTIONS		

INDEX TO SHEETS UG1-31(5)

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2	TYPICAL SECTION		
3-4	PLAN AND PROFILE		
5	CHANNELIZATION		
6	REINFORCING AND JOINT DETAILS	B-94	
7-8	STD. HIGHWAY SIGNS	B-95-1, 2	
9	PRECAST CONC. REFLECTING CURB	B-48-3	
10	STD. GUARD RAIL	K-6	
11	22" I-T BEAM BR. (135° Y-ING X)	D-492	113+35.0
12	LOCATION OF C.E.G., S.W. AND GUARD RAIL		
13	F.A.P. AND R/W MARKERS	M-180	
14	F.A.P. AND R/W MARKERS	M-45	
15	STD. 2'x2' CONC. CATCH BASIN	J-484	
16-17	X-SECTIONS		

INDEX TO SHEETS SN-F.A.P. 114-C(3)

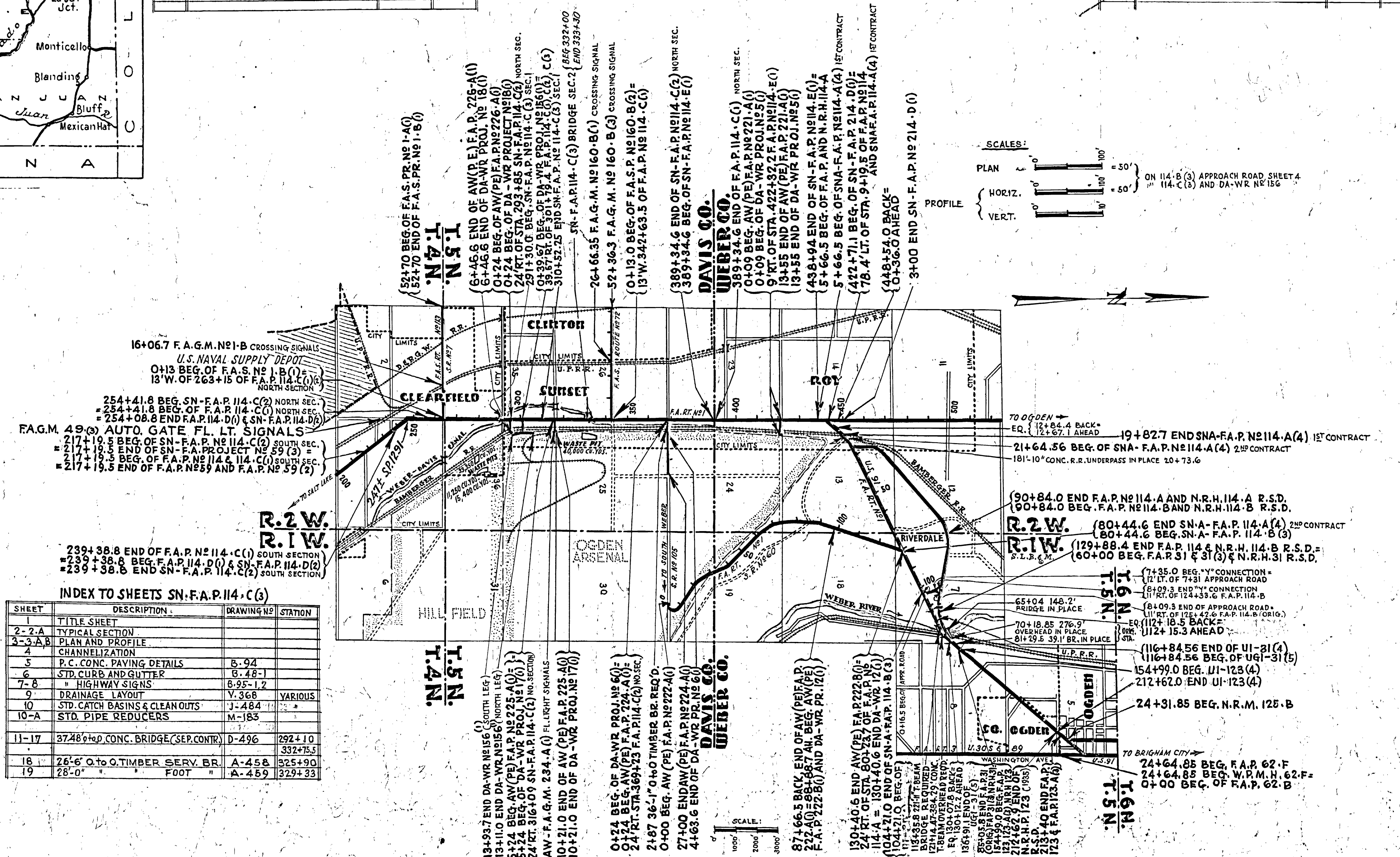
SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2-2A	TYPICAL SECTION		
3-3A, B	PLAN AND PROFILE		
4	CHANNELIZATION		
5	P.C. CONC. PAVING DETAILS	B-94	
6	STD. CURB AND GUTTER	B-48-1	
7-8	STD. HIGHWAY SIGNS	B-95-1, 2	
9	DRAINAGE LAYOUT	V-368	VARIOUS
10	STD. CATCH BASINS & CLEANOUTS	J-484	
10-A	STD. PIPE REDUCERS	M-185	
11-17	37' 4" O.D. CONC. BRIDGE (SEP. CONTR)	D-496	292+10
			324+75.5
18	26'-6" O TO TIMBER SERV. BR.	A-458	325+90
19	28'-0" " "	A-459	329+33

INDEX TO SHEETS SN-A-F.A.P. 114-A(4) 1ST CONTRACT

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2-2A	TYPICAL SECTION		
3-4	PLAN AND PROFILE		
5	CHANNELIZATION		
6	REINFORCING AND JOINT DETAILS	B-94	
7	STD. CURB AND GUTTER	B-48-1	
8	STD. HIGHWAY SIGNS	B-95-1, 2	
9	STD. CURB AND GUTTER	B-48-1	
10	STD. HIGHWAY SIGNS	B-95-1, 2	
11	R/W MARKERS	M-45	
12	WIDEN AND SUPER. CURVES	M-37	
13	STD. DRIVEWAYS	B-52	
14-17	X-SECTIONS		

INDEX TO SHEETS SN-A-F.A.P. No 114-B(3)

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2, 2A	TYPICAL SECTIONS		
3-4	PLAN AND PROFILE		
5	CHANNELIZATION		
6	DETAILS OF CONSTR. OF P.C. CONC. PAVEMENT	B-94	
7-9	STD. HIGHWAY SIGNS	B-95, 1, 2	
10	STD. CURB AND GUTTER	B-48-1	
11	STD. HIGHWAY SIGNS	B-95, 1, 2	
12	R/W FENCE AND GATES	M-46	
13	SUPERELEVATION OF CURVES	M-37	
14-17	X-SECTIONS		

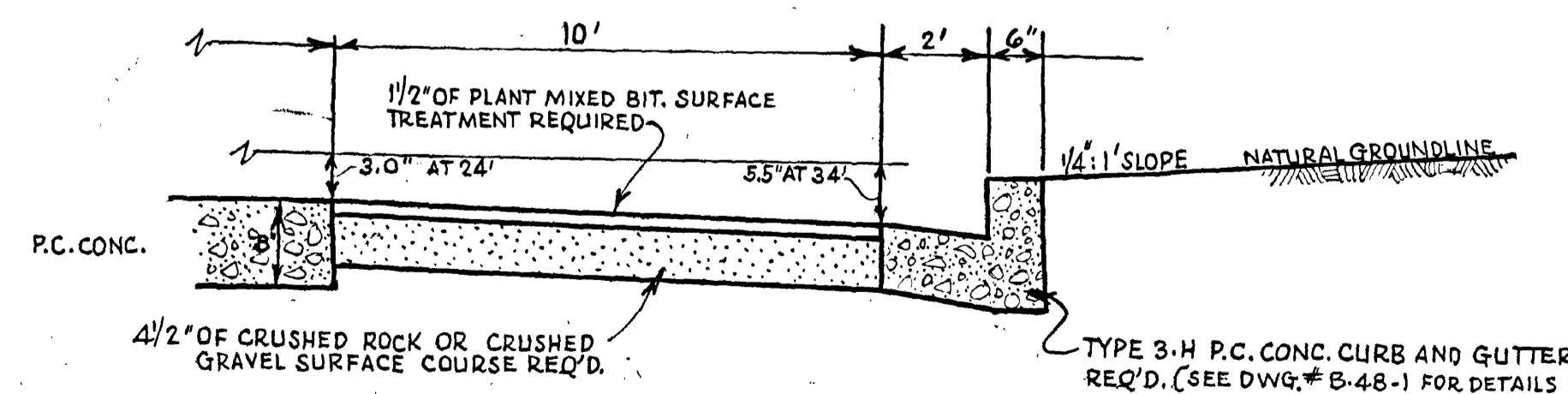
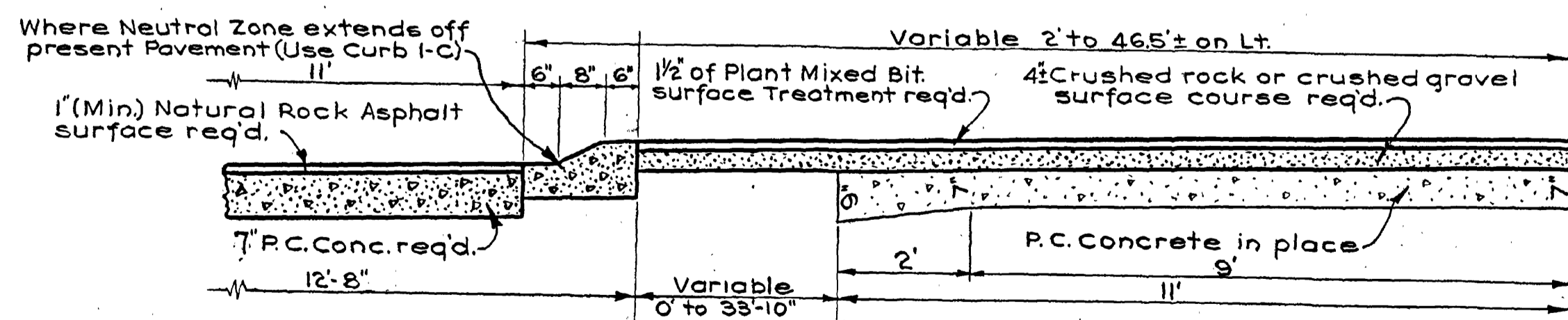
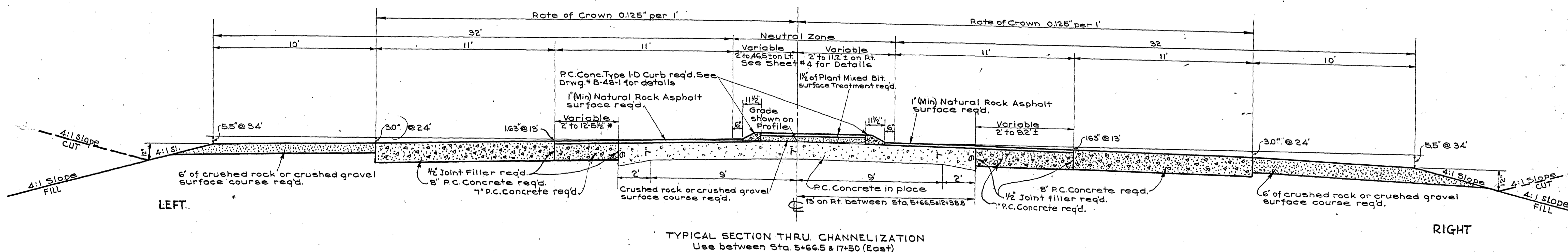
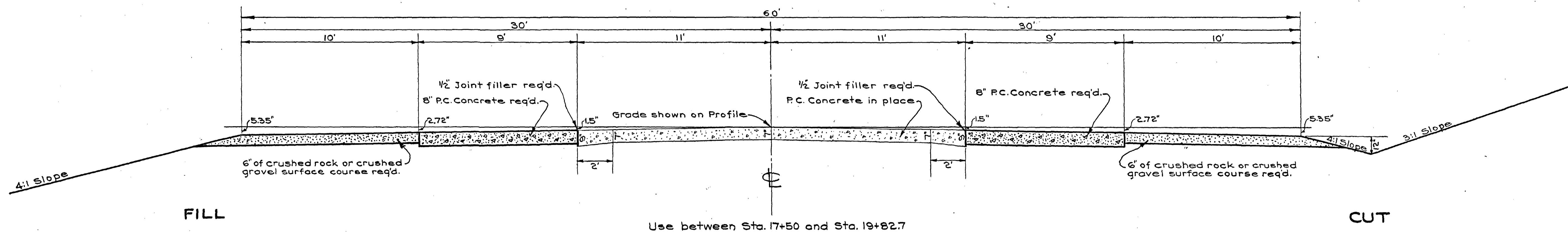


APPROVED: \_\_\_\_\_  
 STATE ROAD COMMISSION OF UTAH  
 CHIEF ENGINEER

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS  
 RECOMMENDED FOR APPROVAL:  
 \_\_\_\_\_  
 DISTRICT ENGINEER DATE  
 \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 DIVISION ENGINEER DATE

# TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	F.A.R. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	2-A	13



For reinforcing and joint details see Drwg. No. B-94  
Widen & Superelevate curves according to Drwg. # M-37

Note: PROVIDE DRIVEWAYS (TYPE "B2")  
AT ENTRANCES AS DESIGNATED BY  
ENGINEER (SEE DRWG. B-52 FOR DETAILS)

UTAH STATE ROAD COMMISSION  
SALT LAKE CITY - UTAH  
W.L. ANDERSON DESIGN ENGINEER  
- TYPE -  
**P.C. CONC. & NATURAL  
ROCK ASPHALT SURFACED  
ROADWAY**

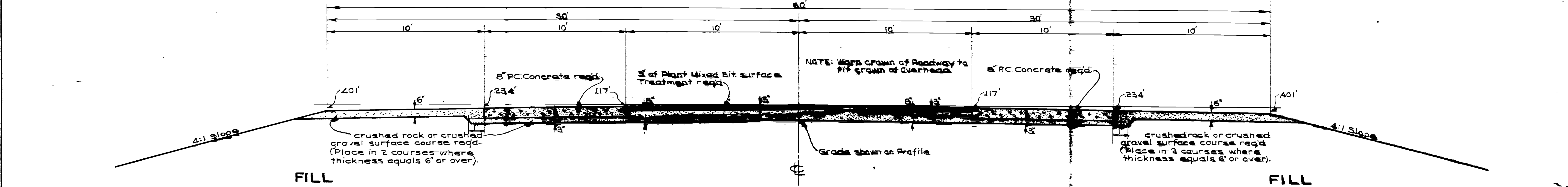
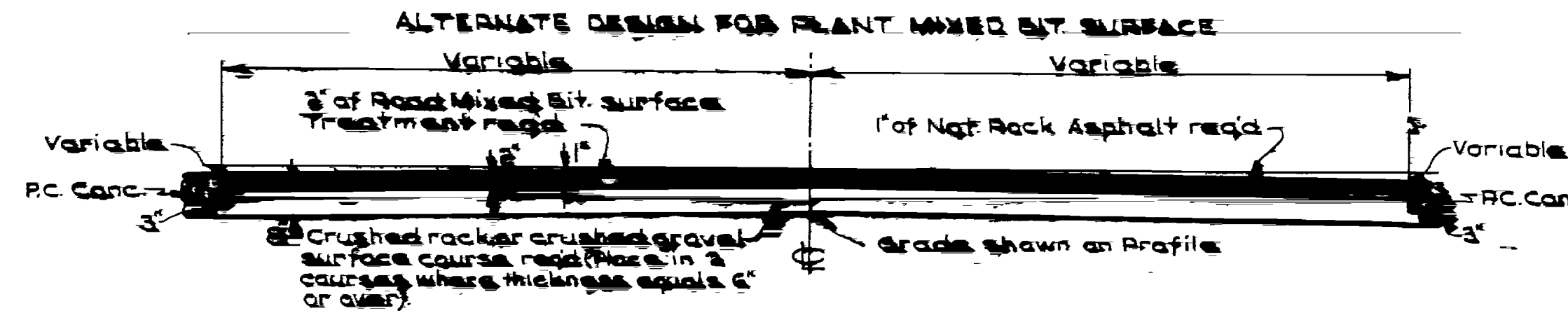


# TYPICAL CROSS SECTION

(SN-A-FAR 114-A(4) & 114-B(3))

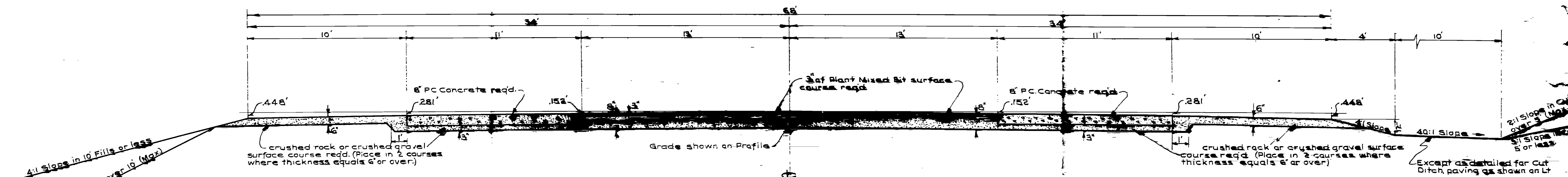
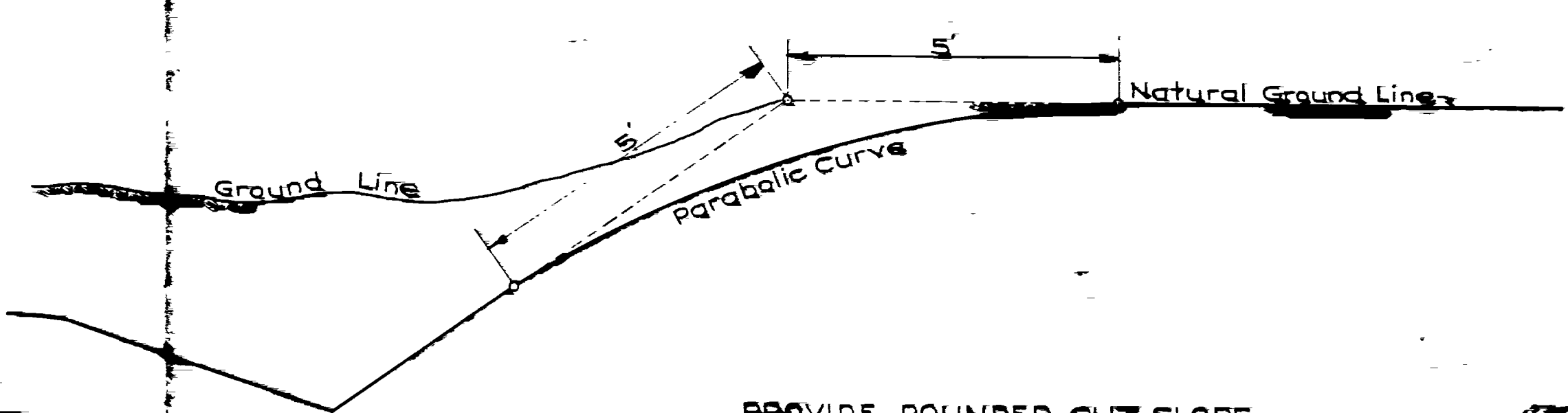
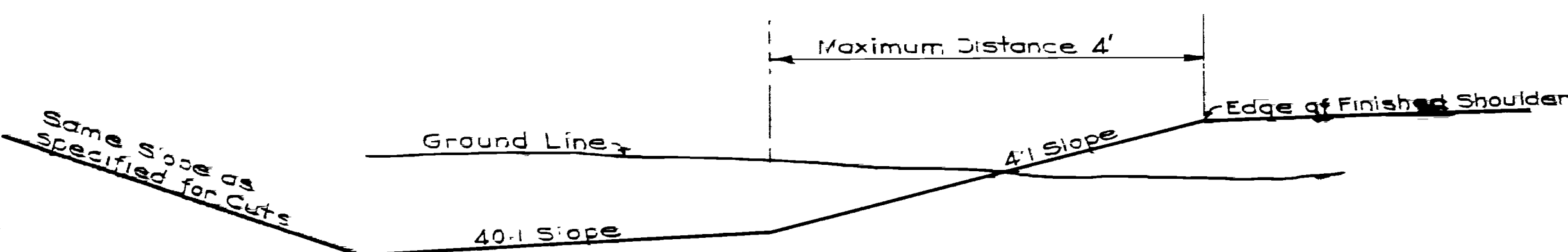
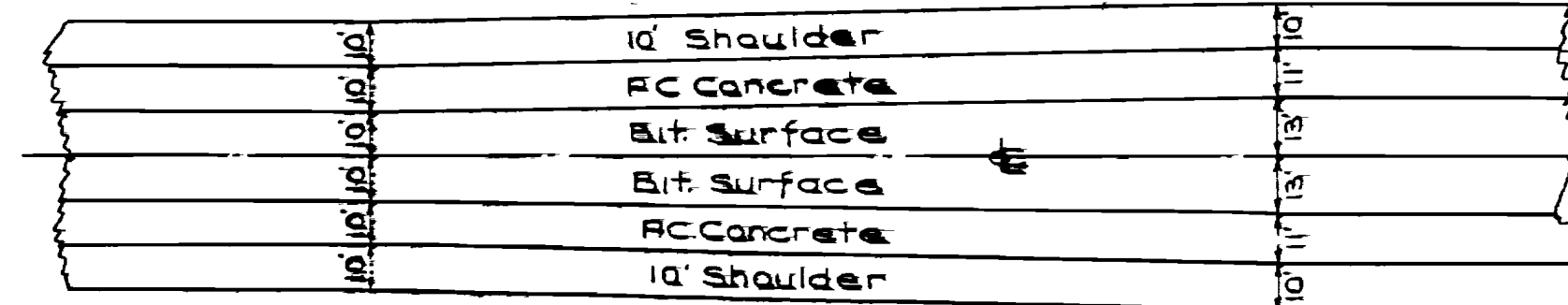
GENERAL NOTE:  
 1" of Natural Rock Asphalt over 2" of Road Mixed Bit surface Treatment as an alternate design for 3" of Plant Mixed Bit surface. (See Typical Section at left).  
 In all cases of additional paving if Alternate design is used substitute Road Mixed Bit for Plant Mixed Bit surface, omitting the 1" layer of Rock Asphalt.

FED. ROAD DIST. NO.	STATE	R. A. D. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	2-B	24
12	UTAH	114-B(3)	1942	2-A	10



Use between Sta 21+64.55 & 24+00

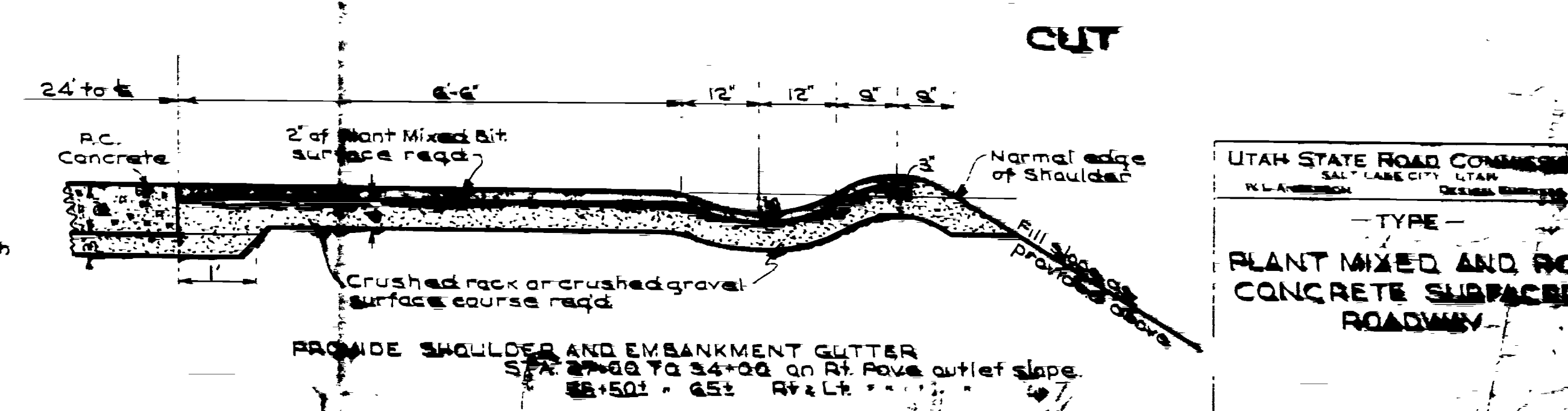
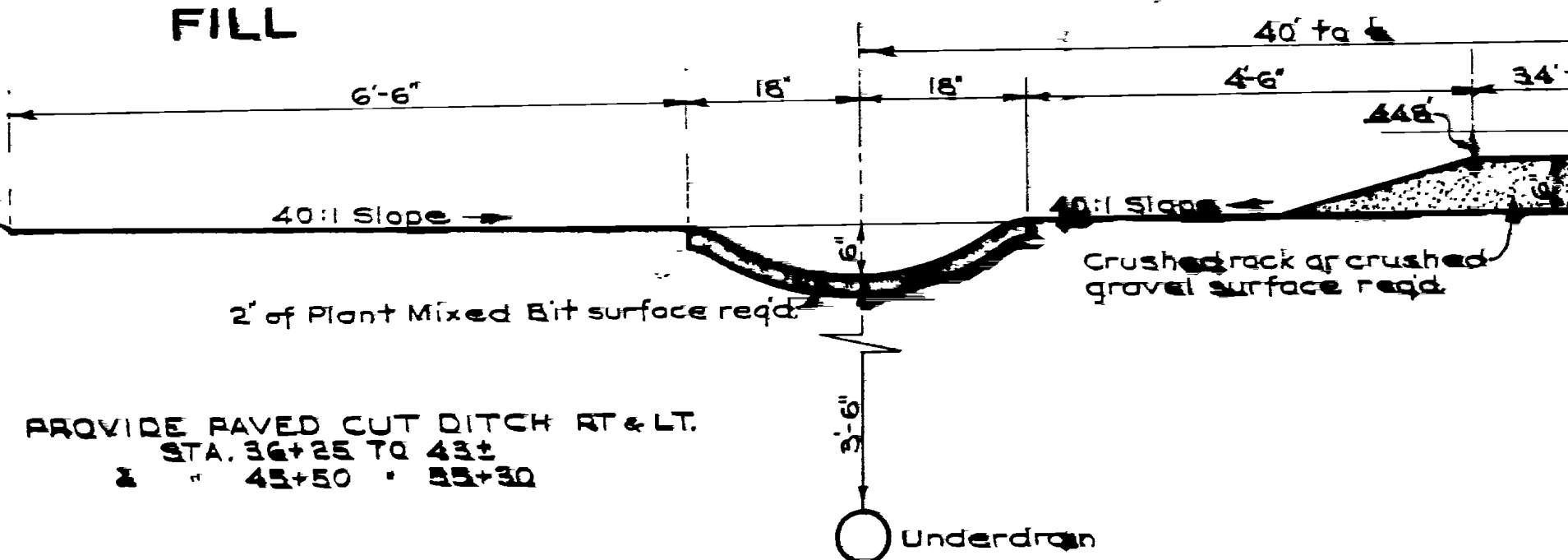
NOTE:  
 For Transition from 40' paved surface and 48' paved surface between Sta 24+00 and 26+00 see sketch below



Use between Sta 24+00 & 72+43.4  
 25+71.2 - 104+21.0

NOTE: See Drawg #534 for Details of Construction of RC Concrete Pavement.  
 Super-elevate curves in accordance with Drawg No. M-37.

PROVIDE PAVED CUT DITCH RT & LT.  
 STA. 36+25 TO 433  
 & 45+50 - 55+30



UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 TYPE  
 PLANT MIXED AND RC CONCRETE SURFACED ROADWAY

REVISIONS	DATE	BY	WT

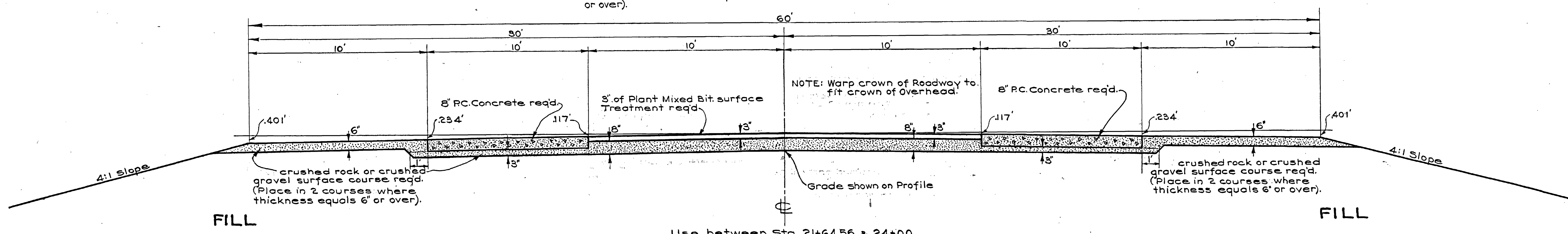
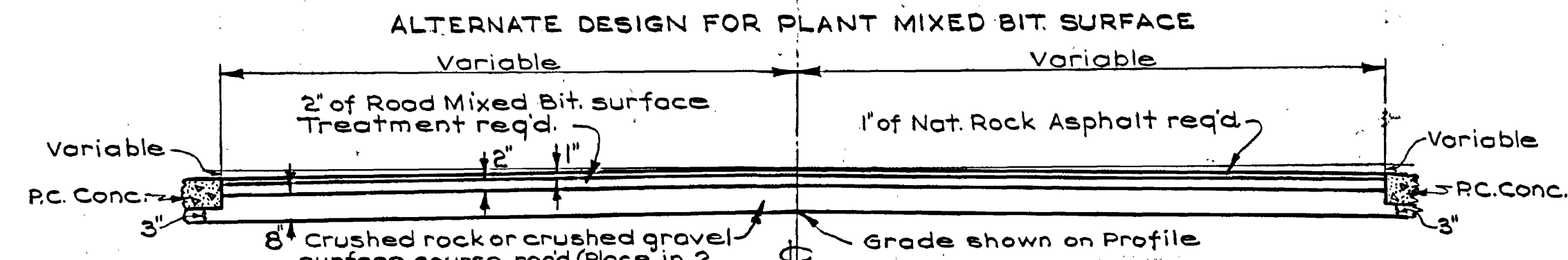
# TYPICAL CROSS SECTION

(SN-A-F.A.P. 114-A(4) & 114-B(5))

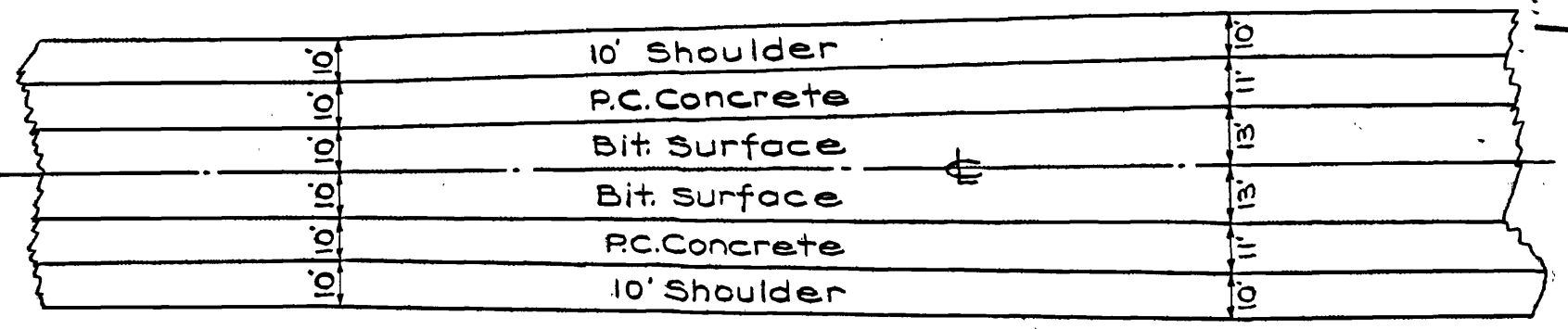
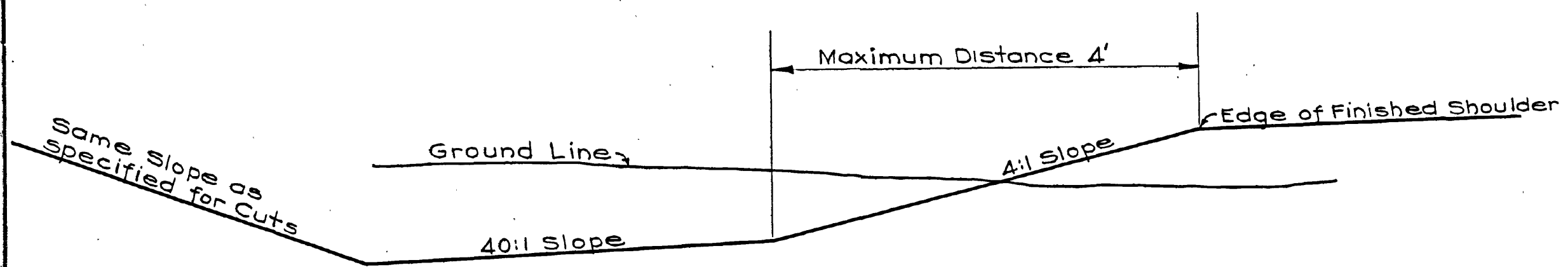
GENERAL NOTE:  
1' of Natural Rock Asphalt over 2" of Road Mixed Bit surface Treatment as an alternate design for 3" of Plant Mixed Bit surface. (See Typical Section at left)

In all cases of additional paving, if Alternate design is used, substitute Road Mixed Bit for Plant Mixed Bit surface, omitting the 1' layer of Rock Asphalt.

FED. ROAD DIST. NO.	STATE	F. A. P. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	2-B	24
12	UTAH	114-B(5)	1942	2-A	10

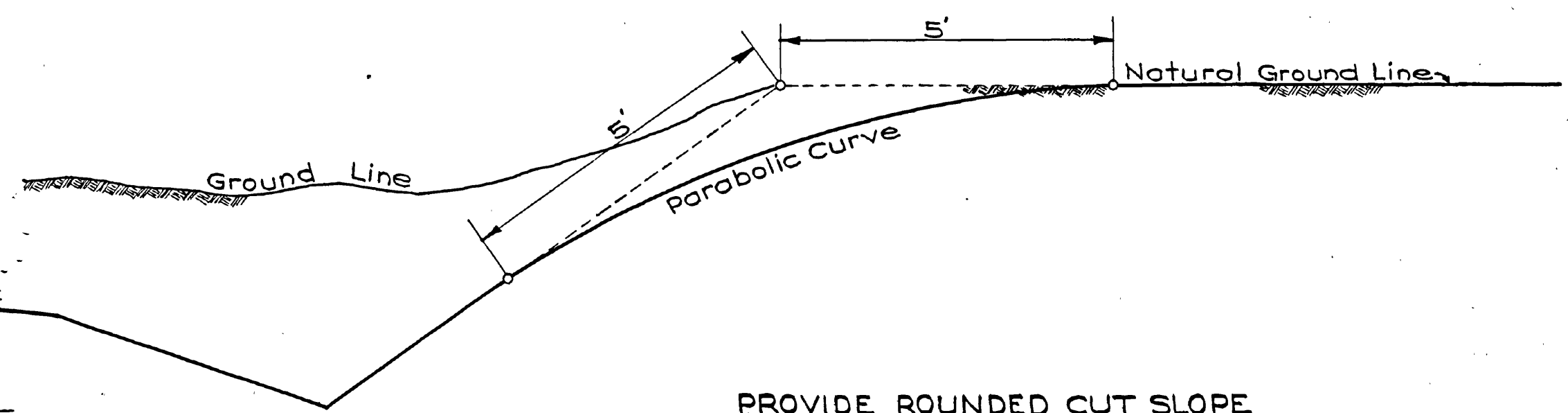


Use between Sta. 21+64.56 & 24+00

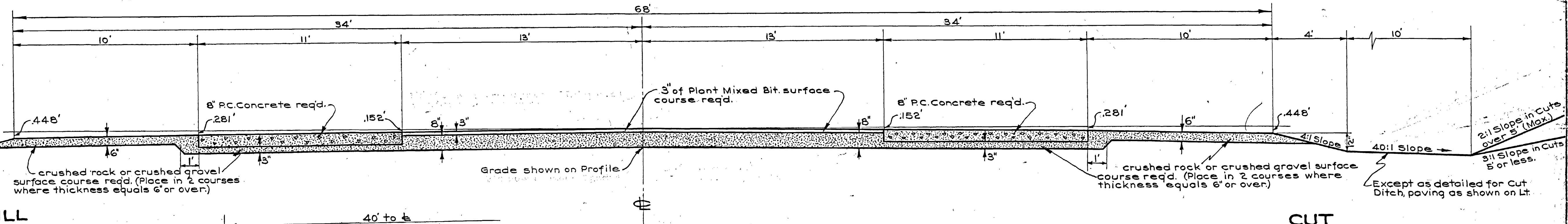


24+00

26+00

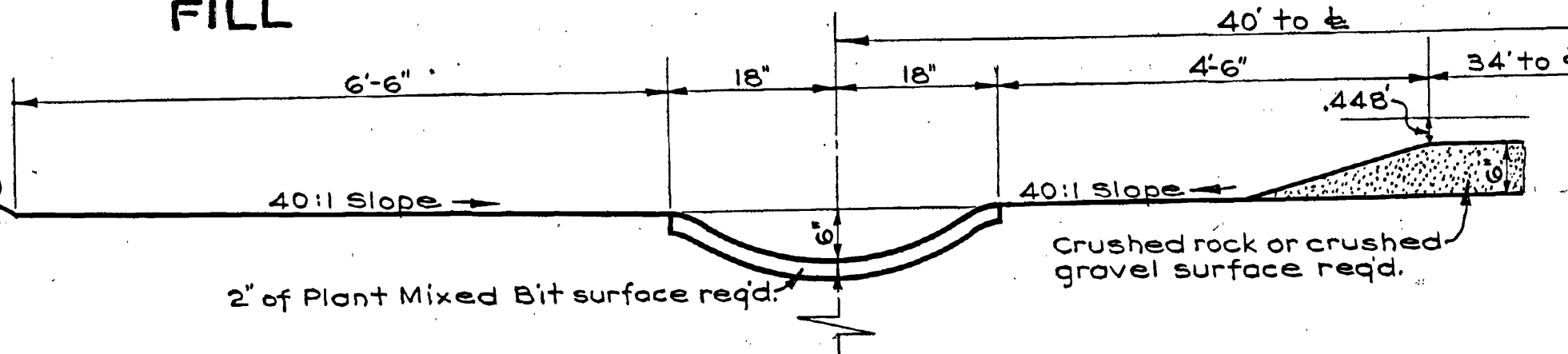


MAXIMUM DEPTH OF BORROW PIT



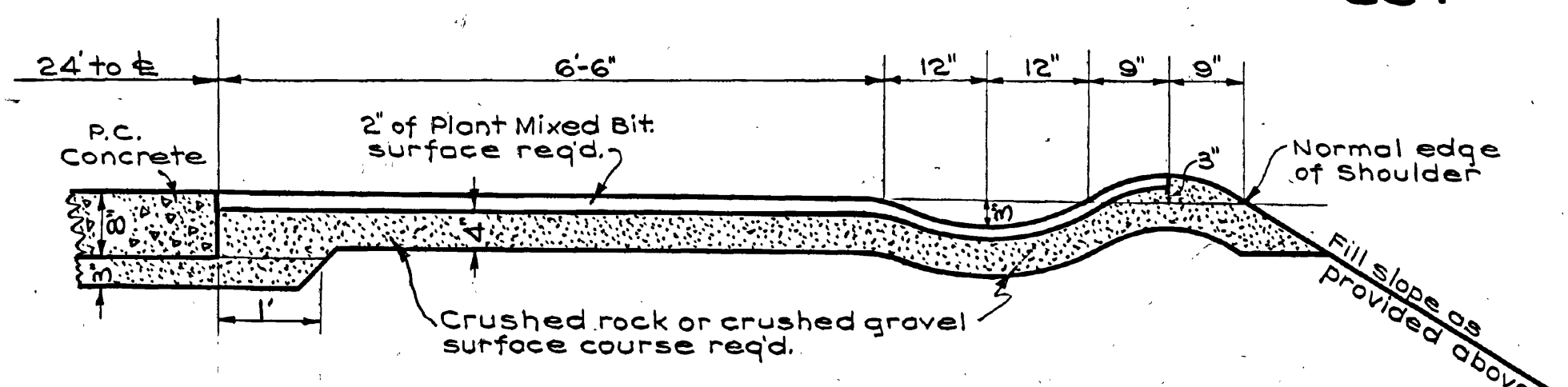
Use between Sta. 24+00 & 72+43.4  
" " " 89+71.2 " 104+21.0

NOTE: See Drwg # B-94 for Details of Construction of PC. Concrete Pavement. Super-elevate curves in accordance with Drwg. No. M-37.



PROVIDE PAVED CUT DITCH RT. & LT.  
STA. 36+25 TO 43 ±  
& " 45+50 " 55+30

Underdrain



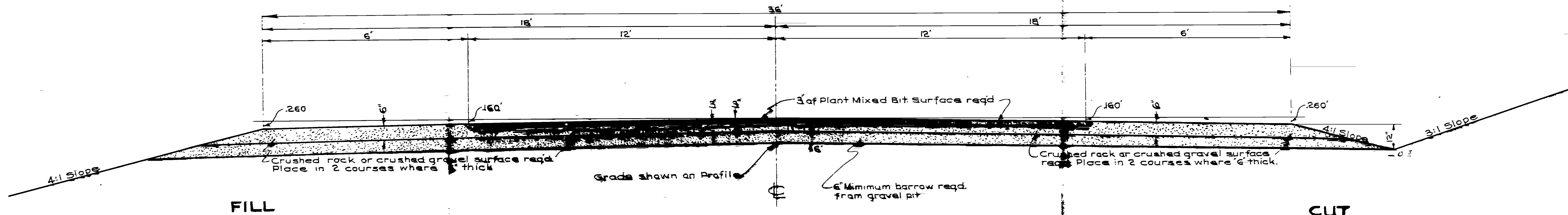
PROVIDE SHOULDER AND EMBANKMENT GUTTER  
STA. 27+00 TO 34+00 on Rt. Pave outlet slope.  
" 55+50 ± " 65 ± Rt. & Lt. "

UTAH STATE ROAD COMMISSION  
SALT LAKE CITY - UTAH  
W.L. ANDERSON DESIGN ENGINEER

— TYPE —  
PLANT MIXED, AND P.C. CONCRETE SURFACED ROADWAY

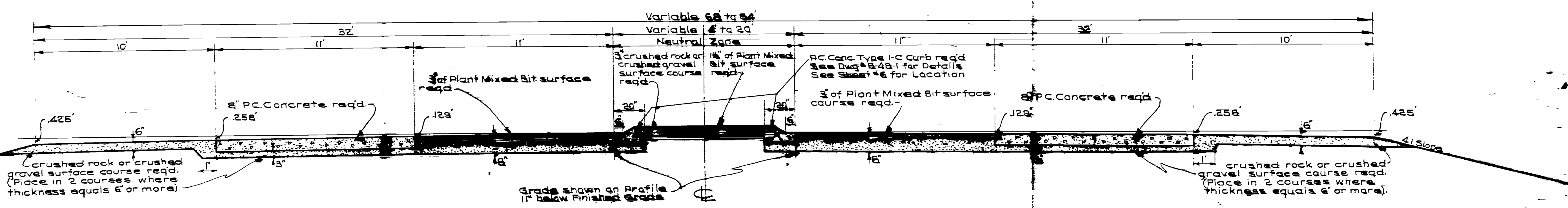
# TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	F. A. R. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	2-C	24
12	UTAH	114-B(3)	1942	2	10

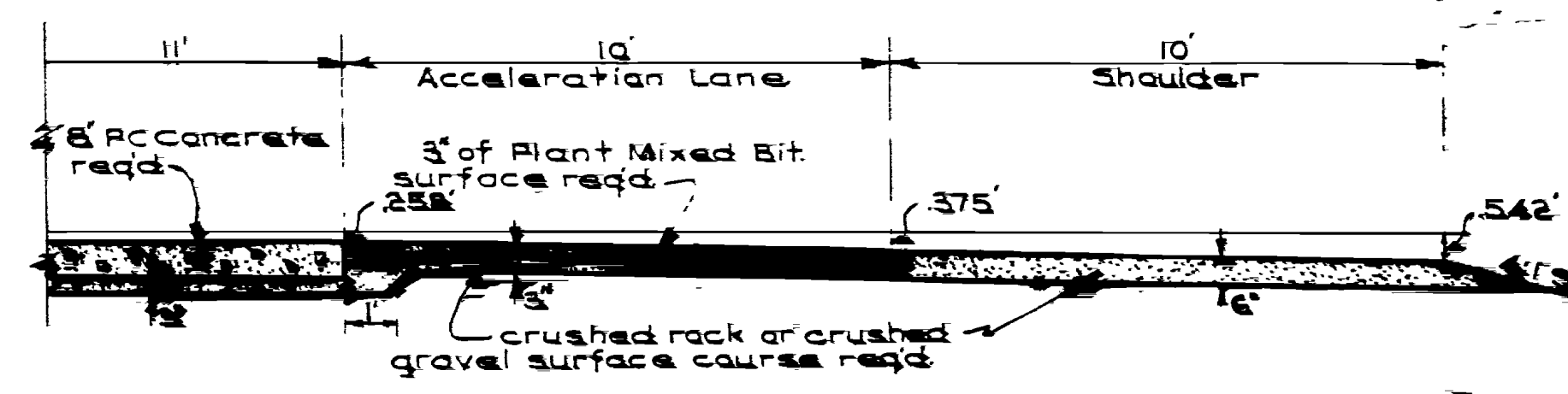


Use between Sta 0162 & 0203 (Approach Road SNA-FAR 114-B(3))  
 on Approach road List of Sta. 252 SNA-FAR 114-A(4) (Except  
 1" layer of Rock Asphalt omitted if alternate design is used)

REVISIONS	DATE	BY



Use between Sta 72+434 & 82+712  
 NOTE: See Sheet No. 7 SNA-FAR No. 114-A(4)  
 or 114-B(3) for details of Channelized Intersection.



ACCELERATION LANE  
 Use between Sta 812 & 81646 on Rt.  
 See Sheet 46 for Details.

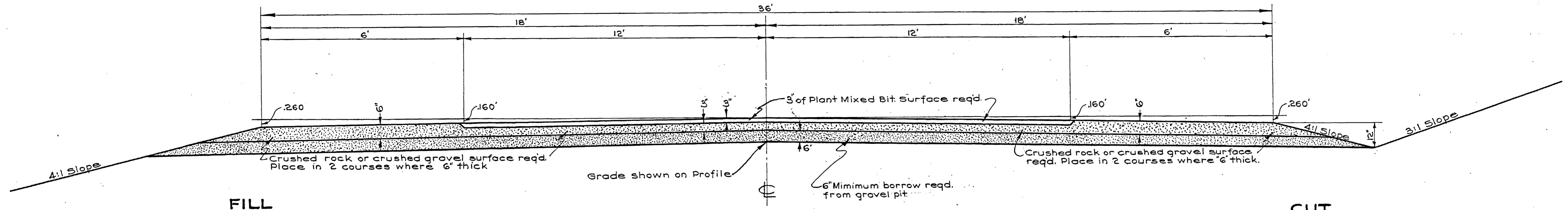
NOTE: See Drawing No. 8-36 for details of Construction of PC Concrete Pavement.

NOTE: Super elevate curves in accordance with Drawing No. 14-37.

UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY - UTAH  
 R. L. ANGERSON  
 TYPE -  
**PC CONCRETE AND PLANT MIXED BIT SURFACE ROADWAYS**

# TYPICAL CROSS SECTION

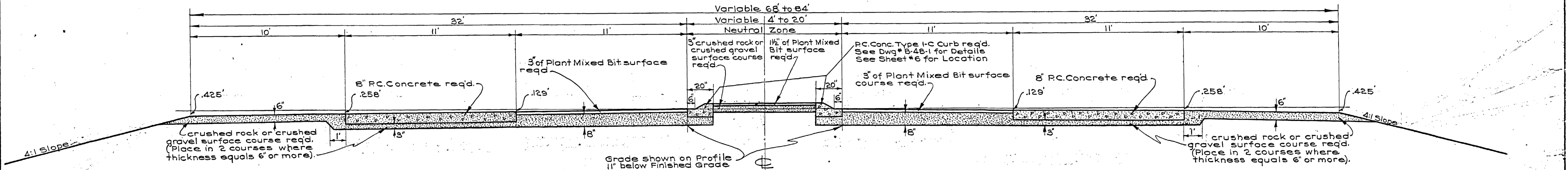
FED. ROAD DIST. NO.	STATE	F. A. R. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	2-C	24
12	UTAH	114-B(3)	1942	2	10



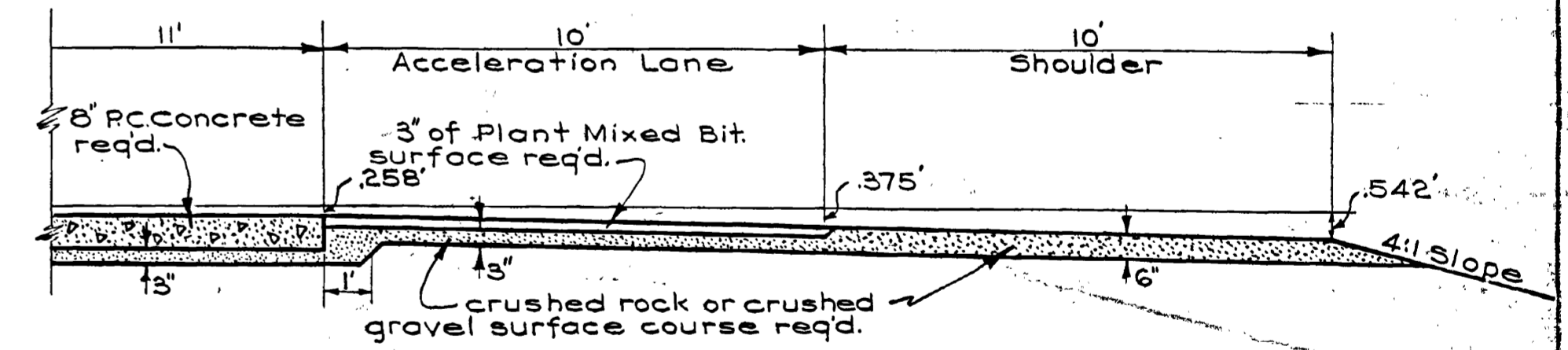
FILL

CUT

Use between Sta. 0+165 & 8+09.3 (Approach Road SN-A-F.A.R. 114-B(3))  
 on Approach road Left of Sta. 25+ SN-A-F.A.R. 114-A(4) (Except  
 1" layer of Rock Asphalt omitted if alternate design is used.



Use between Sta. 72+43.4 & 89+71.2  
 NOTE: See Sheet No. 7 SN-A-F.A.R. No. 114-A(4)  
 or " 5 " " " 114-B(3)  
 for details of Channelized intersection.



ACCELERATION LANE  
 Use between Sta. 81+ & 83+64.6 on Rt.  
 See Sheet #6 for Details.

NOTE: See Drawing No. B-94 for details of Construction  
 of P.C. Concrete Pavement.

NOTE: Superelevate curves in accordance  
 with Drawing No. M-37.

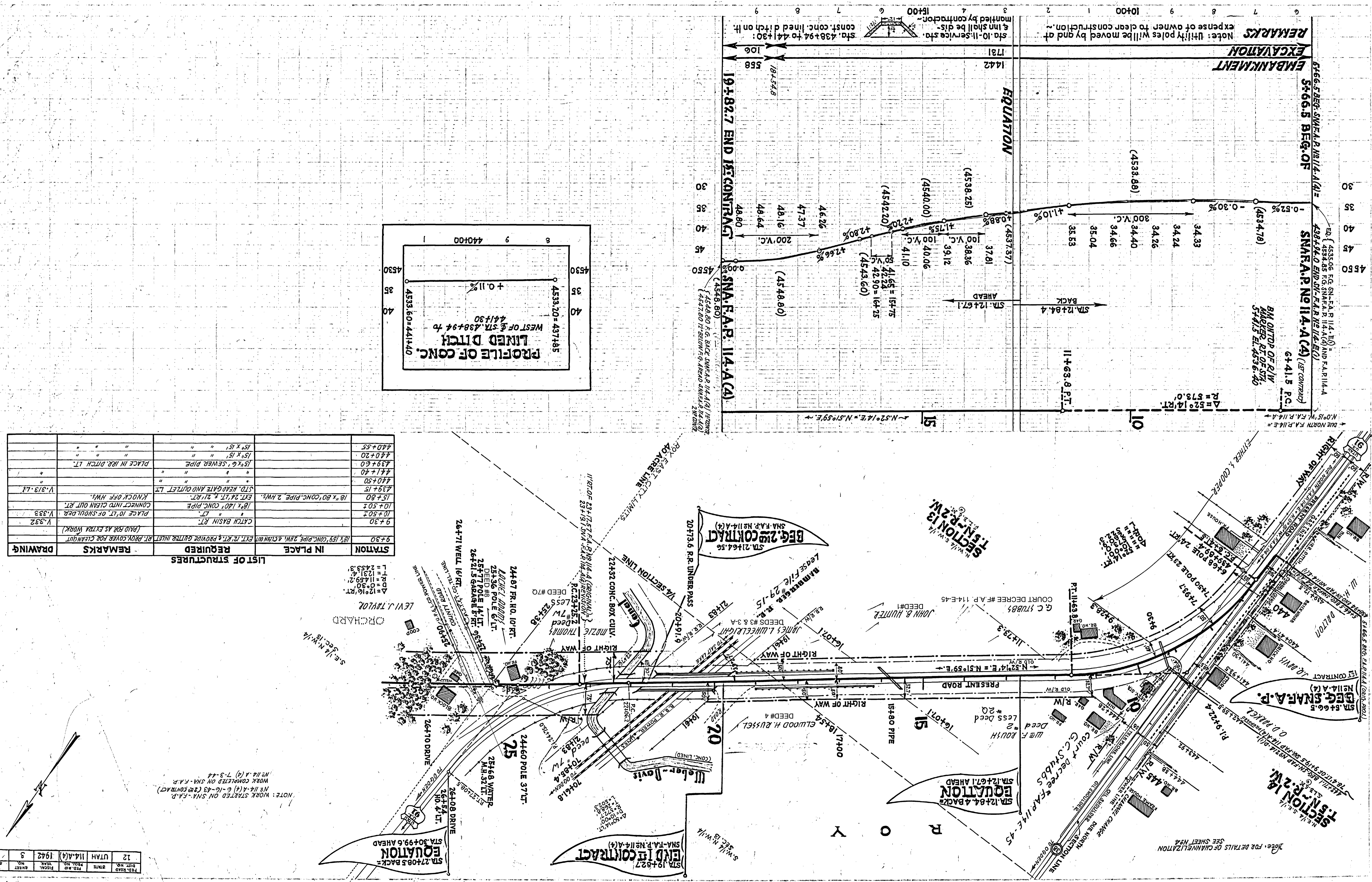
UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 W.L. ANDERSON DESIGN ENGINEER

— TYPE —  
**P.C. CONCRETE AND  
 PLANT MIXED BIT  
 SURFACED ROADWAY**

4856

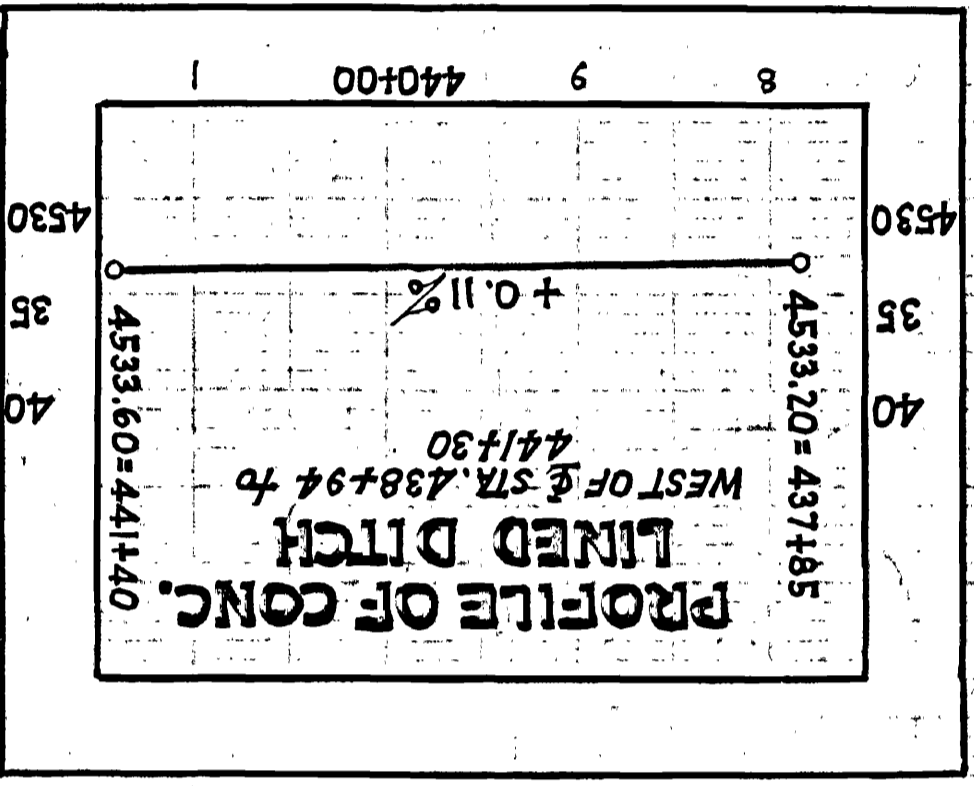
4855 TRACED

4855 TRACED



**LIST OF STRUCTURES**

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
9+30	CATCH BASIN RT.	LT.		V. 332
10+50±	PLACE 10' LT. OF SHOULDER	CONNECT INTO CLEAN OUT RT.		V. 333
15+80	18" X 80" CONC. PIPE 2 HWS.	STD. HEAD GATE AND OUTLET LT.	KNOCK OFF HWS.	
439+15				
440+50				
441+40				
439+60	15" X 6" SEWER PIPE		PLACE IN RR. DITCH LT.	
440+20				
440+55				



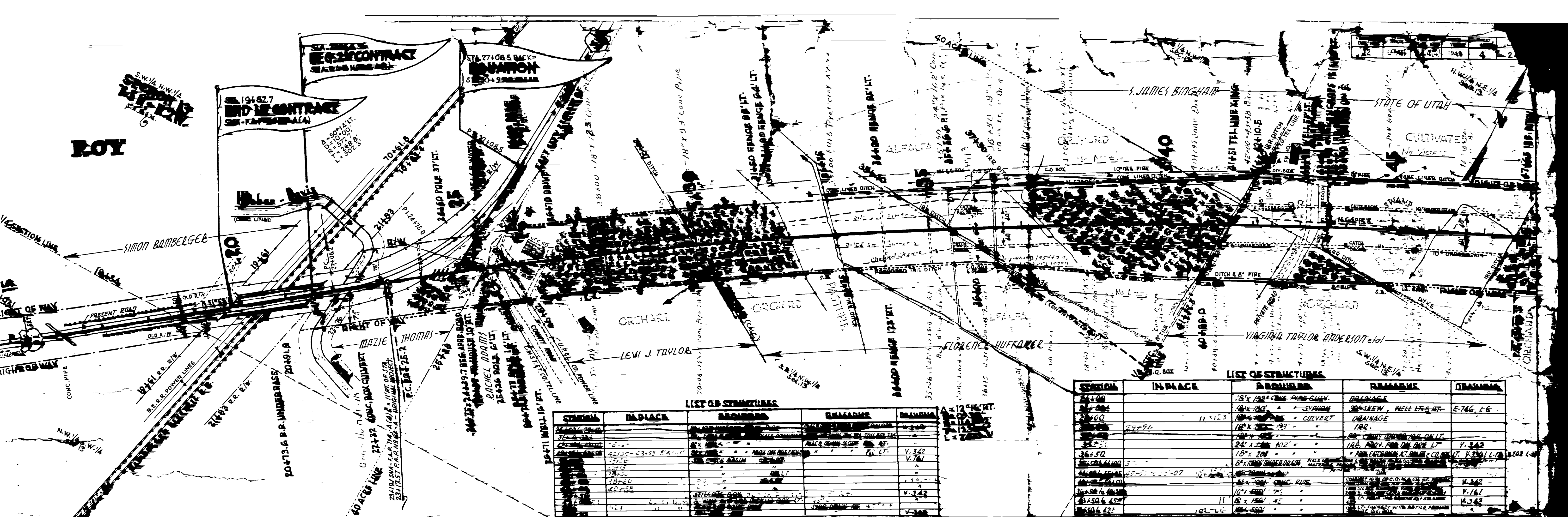
TOT. SHEETS	SHEET NO.	STATE	DATE	TOTAL
13	5	UTAH	11/4(A) 1942	12

Note: FOR DETAILS OF CHANNELIZATION SEE SHEET 184

**ROY**

**194827 END OF CONTRACT**

**194827 CONTRACT**

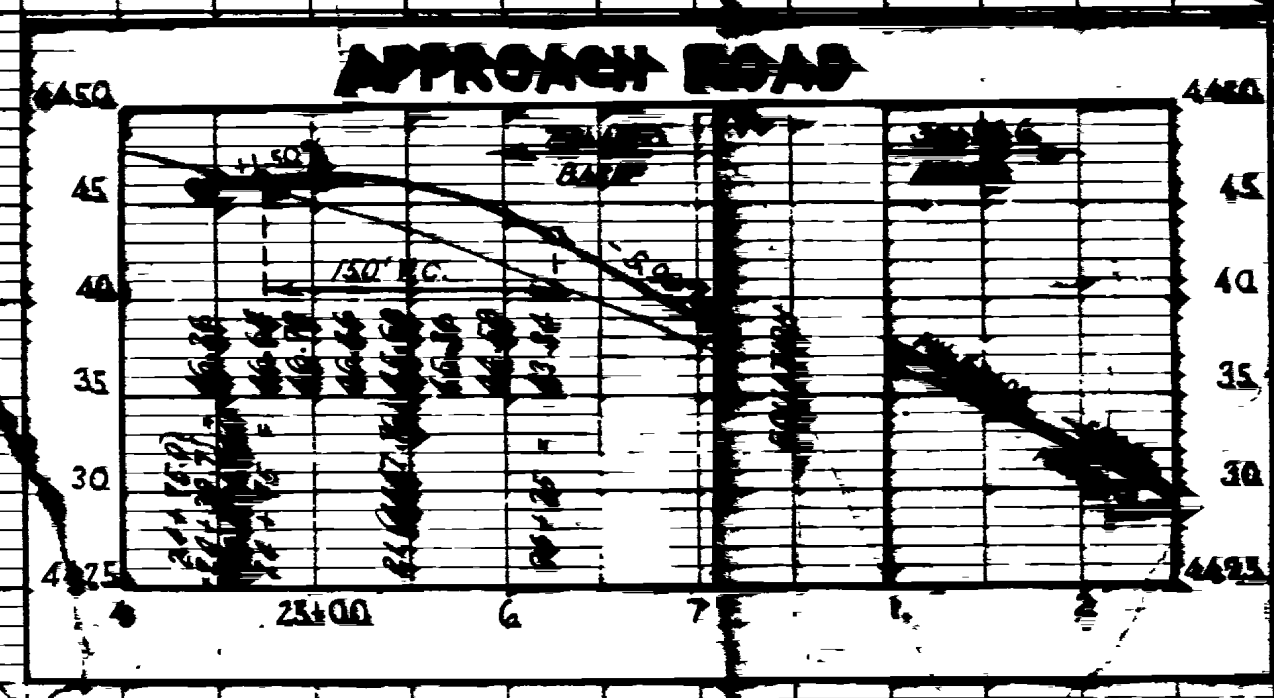
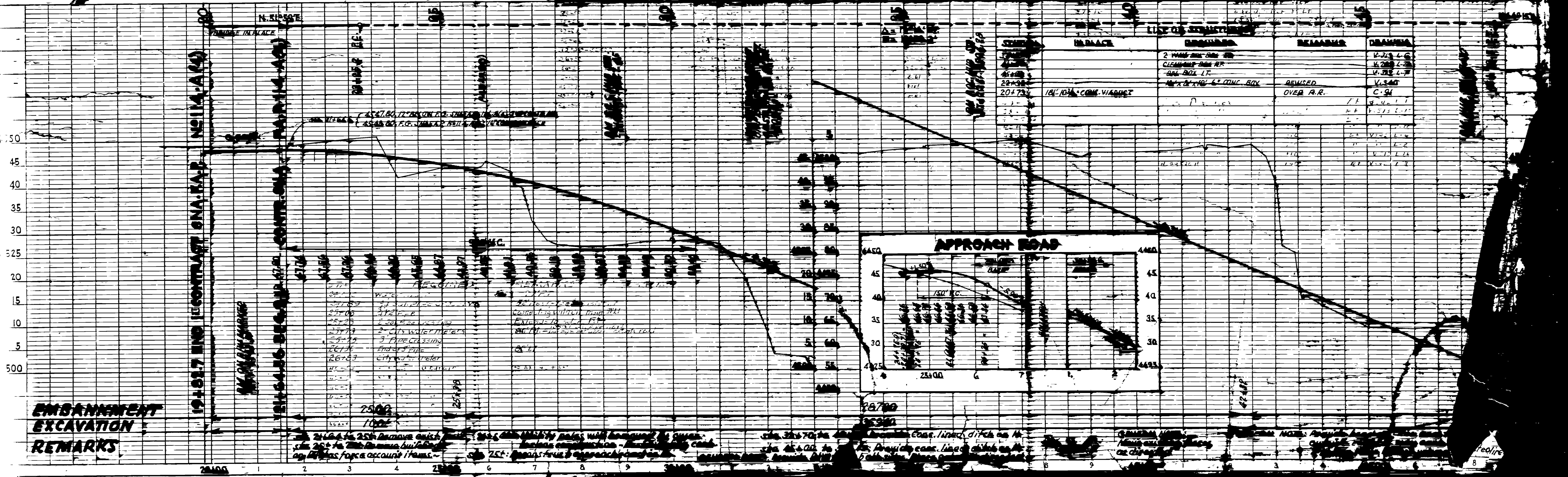


**LIST OF STRUCTURES**

STATION	IN PLACE	REMARKS	DRAWING
20470		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20471		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20472		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20473		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20474		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20475		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20476		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20477		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20478		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20479		18" x 18" CONC. PIPE CULVERT	DRAINAGE

**LIST OF STRUCTURES**

STATION	IN PLACE	REMARKS	DRAWING
20480		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20481		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20482		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20483		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20484		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20485		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20486		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20487		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20488		18" x 18" CONC. PIPE CULVERT	DRAINAGE
20489		18" x 18" CONC. PIPE CULVERT	DRAINAGE

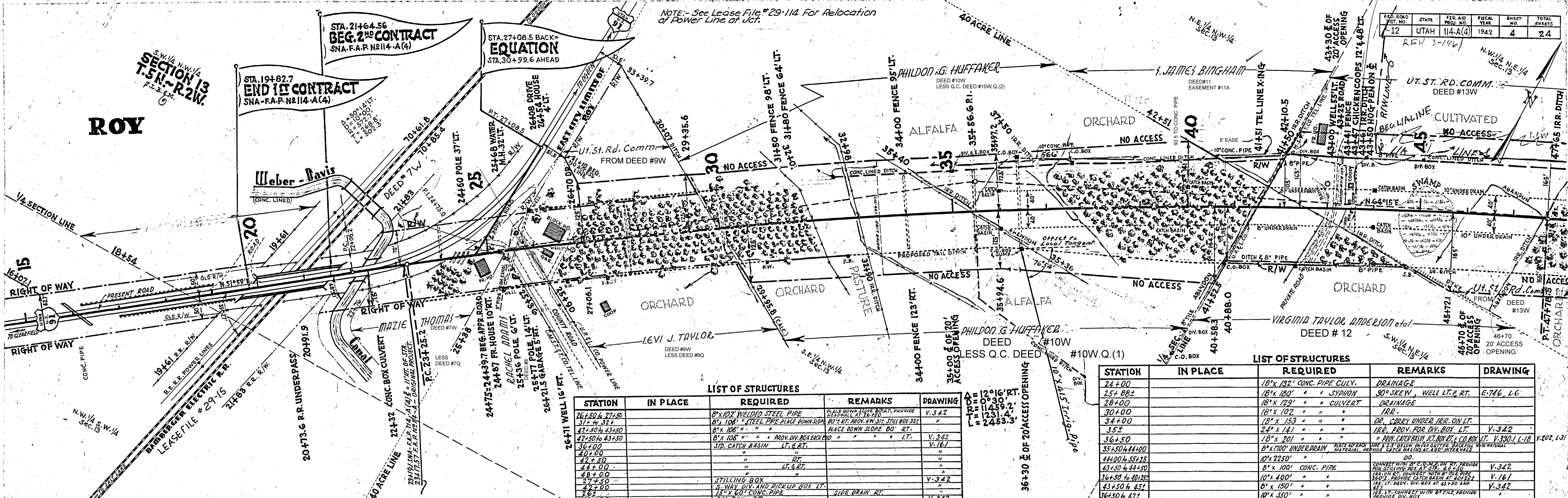


**LIST OF STRUCTURES**

STATION	IN PLACE	REMARKS	DRAWING
20490		2" WIND-BREAK PIPE	V-23 L-C
20491		CLEANSING BOX	V-23 L-C
20492		CONC. BOX LT.	V-23 L-F
20493		18" x 18" CONC. VIADUCT	V-24
20494			
20495			
20496			
20497			
20498			
20499			

**EMBANKMENT EXCAVATION REMARKS**

25:00 to 25:15 Remove embankment on left side of road for a concrete drainage ditch. 25:15 to 25:30 Excavate embankment on right side of road for a concrete drainage ditch. 25:30 to 25:45 Excavate embankment on left side of road for a concrete drainage ditch. 25:45 to 25:55 Excavate embankment on right side of road for a concrete drainage ditch. 25:55 to 26:00 Excavate embankment on left side of road for a concrete drainage ditch.



**LIST OF STRUCTURES**

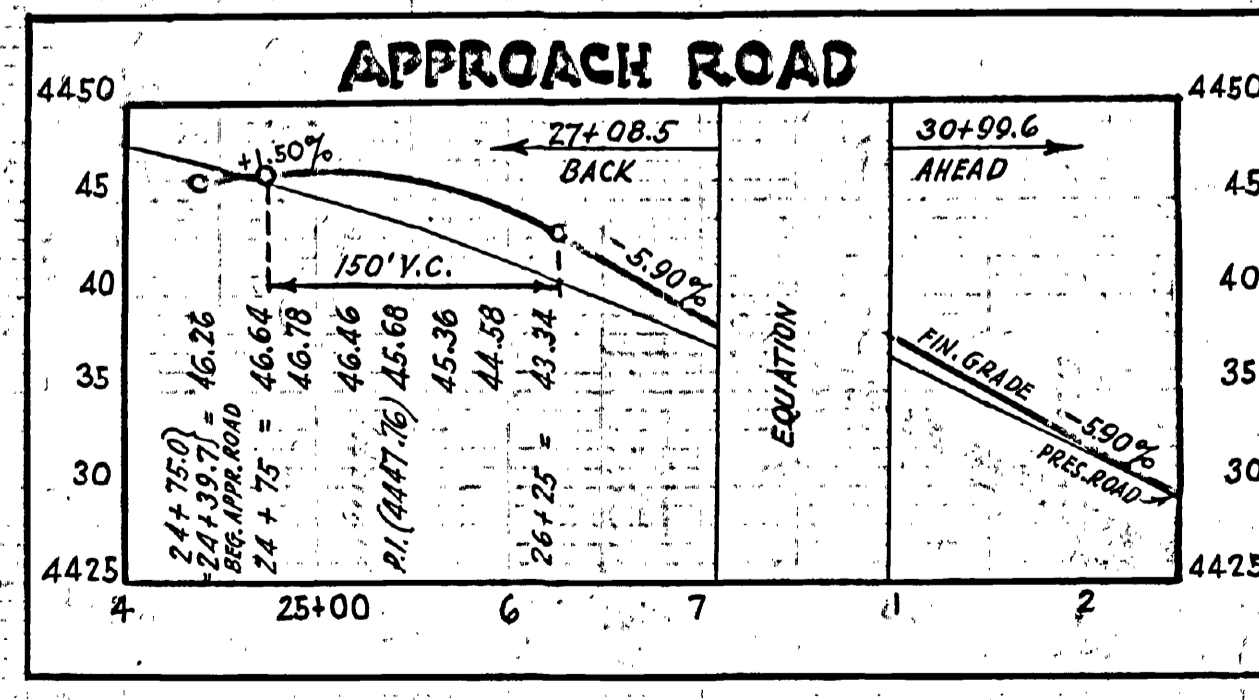
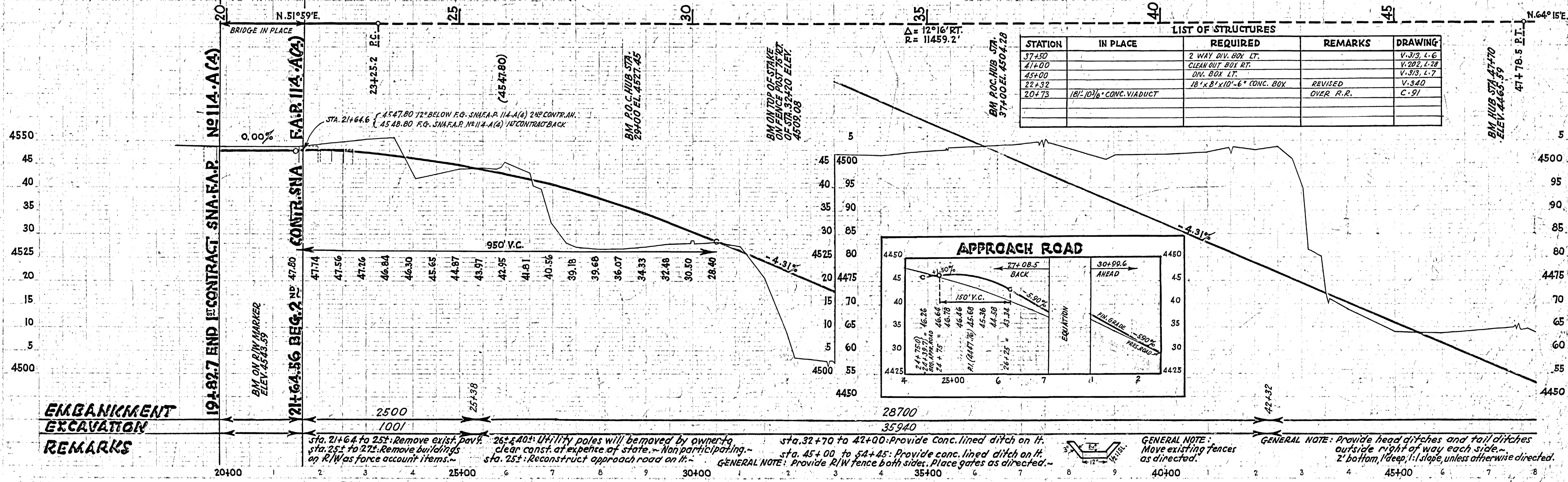
STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
26+30 to 27+80		8" x 102" WELDED STEEL PIPE	PLACE DOWN SLOPE BANK, PROVIDE DRAINAGE	V.342
27+80 to 31+		8" x 106" STEEL PIPE PLACE DOWN SLOPE	8" x 106" STEEL PIPE PLACE DOWN SLOPE	
31+ to 34+		8" x 106" " " " "	PLACE DOWN SLOPE 80' RT.	
34+ to 35+		8" x 106" " " " "	" " " "	
35+ to 36+		8" x 106" " " " "	" " " "	
36+ to 40+		STD. CATCH BASIN	LT. & RT.	V.161
40+ to 42+		" " " "	" " " "	
42+ to 44+		" " " "	LT. & RT.	
44+ to 48+		" " " "	" " " "	
48+ to 50+		STILLING BOX	" " " "	V.342
50+ to 52+		3-WAY DIV. AND PICKUP BOX LT.	" " " "	
52+ to 54+		15" x 60" CONC. PIPE	SIDE DRAIN RT.	V.342
54+ to 55+		DIV. BOX	RT.	

**LIST OF STRUCTURES**

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
24+00		18" x 192" CONC. PIPE CULV.	DRAINAGE	
25+ 88±		18" x 180" " " SYPHON	30° SKEW, WELL LT. & RT.	E-746, L-6
28+00		18" x 129" " " CULVERT	DRAINAGE	
30+00		18" x 102" " " "	IRR.	
34+00		18" x 153" " " "	DR. CORE UNDER IRR. ON LT.	
35±		24" x 141" " " "	IRR. PROV. FOR DIV. BOX LT.	V.342
36+50		18" x 201" " " "	" " " "	
35+30 to 44+00		8" x 1700" UNDERDRAIN	PLACE AT END OF ROAD, PROVIDE 3" S.S. BELOW HAVED CUTTER, BACKFILL WITH NATURAL MATERIAL, PROVIDE CATCH BASINS AT 200' INTERVALS	V.202, L-31
44+00 to 55+25		10" x 2250" " " "	DO.	
43+50 to 44+50		8" x 100" CONC. PIPE	CONVERT WITH 8" CONC. ON DIV. PROVIDE FOR STILLING BOX AT STA. 42+50	V.342
36+50 to 40+25		10" x 400" " " "	16" ON R.C. CONCRETE WITH 8" CONC. PROVIDE CATCH BASIN AT 200' INTERVALS	V.161
43+50 to 45±		8" x 150" " " "	IRR. LT. PROV. DIV. BOX AT 43+50 AND 45±	V.342
36+50 to 42±		10" x 350" " " "	IRR. LT. CONNECT WITH 8" FILE, PROVIDE PROVIDE DIV. BOX	

**LIST OF STRUCTURES**

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
37+50		2 WAY DIV. BOX LT.		V.313, L-6
41+00		CLEAN OUT BOX RT.		V.202, L-28
45+00		DIV. BOX LT.		V.313, L-7
22+32		18" x 8' x 10'-6" CONC. BOX	REVISED OVER R.R.	V.340
20+73		18" x 103" CONC. VIADUCT		C.91



**REMARKS**

sta. 21+64 to 25±: Remove exist. pavt. sta. 25± to 27±: Remove buildings on R/W as force account items.

26±40±: Utility poles will be removed by owner to clear const. at expense of state. Non participating.

sta. 25±: Reconstruct approach road on it.

sta. 32+70 to 42+00: Provide Conc. lined ditch on it.

sta. 45+00 to 54+45: Provide conc. lined ditch on it.

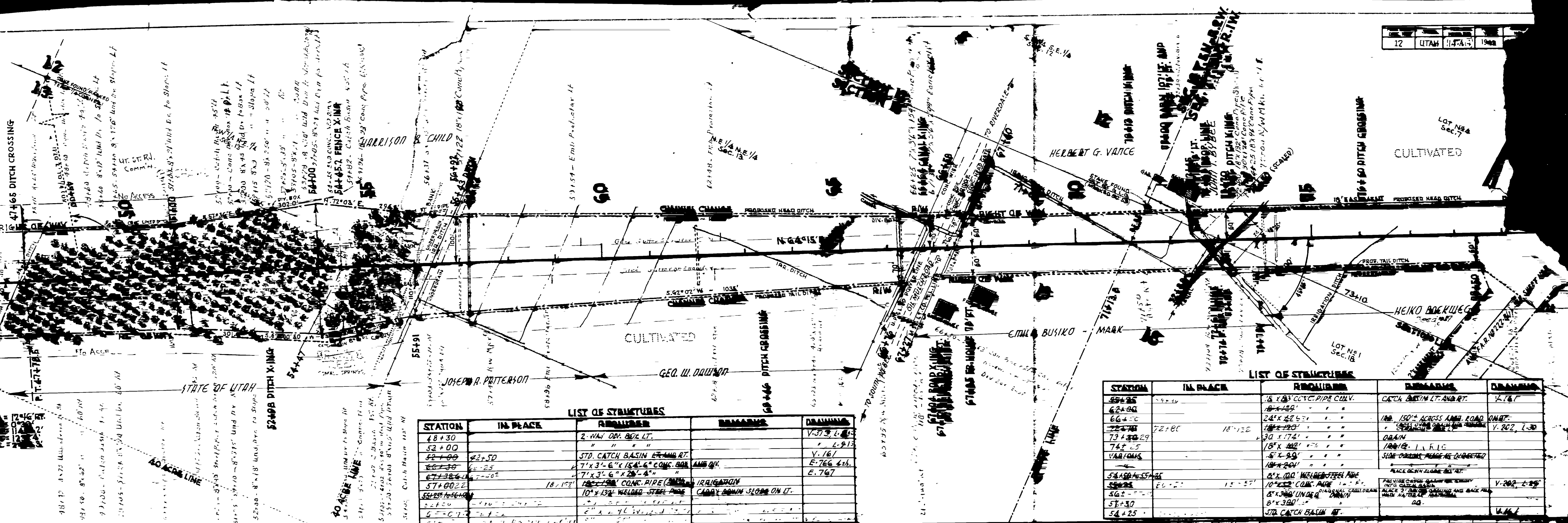
GENERAL NOTE: Provide R/W fence both sides. Place gates as directed.

GENERAL NOTE: Move existing fences as directed.

GENERAL NOTE: Provide head ditches and tail ditches outside right of way each side. 2' bottom, 1:1 slope, unless otherwise directed.

J. B. BURNS 1941  
 H. S. WRIGHT  
 H. M. FEHMELE  
 4855 TRACED

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 H. M. FEHMELE  
 H. S. WRIGHT

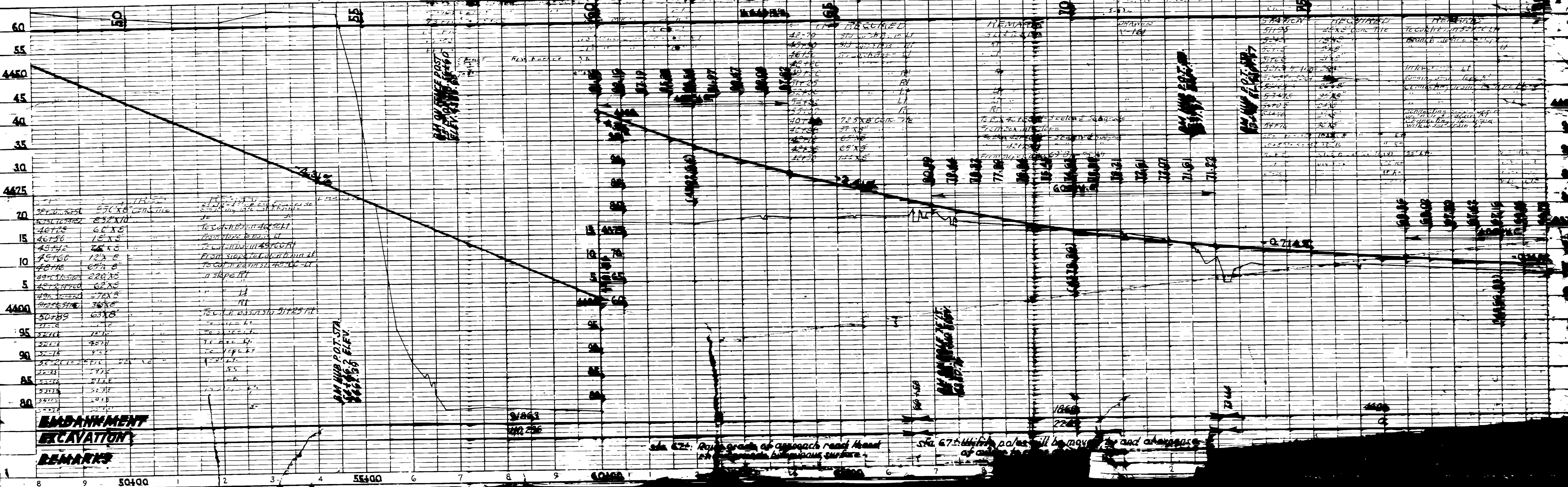


**LIST OF STRUCTURES**

STATION	IN PLACE	REMARKS	DRAWING
48+30		2-WAY DR. BOX LT.	V-313, L-63
52+00		" " " "	" " " "
52+00	62+50	STD. CATCH BASIN FRAMING RT.	V-167
66+30	66-25	7'x3'-6" x 15'-6" CONC. BOX	E-766, L-36
67+38.6	67-20.8	7'x3'-6" x 25'-4" " "	E-767
57+00.22	18+100	10" x 13" CONC. PIPE (CONC.)	IRRIGADION
60+00		10" x 13" WELDED STEEL PIPE	CARRY DOWN SLOPE ON LT.
64+00		" " " "	" " " "
65+00		" " " "	" " " "
67+00		" " " "	" " " "
67+25		" " " "	" " " "
67+25		" " " "	" " " "

**LIST OF STRUCTURES**

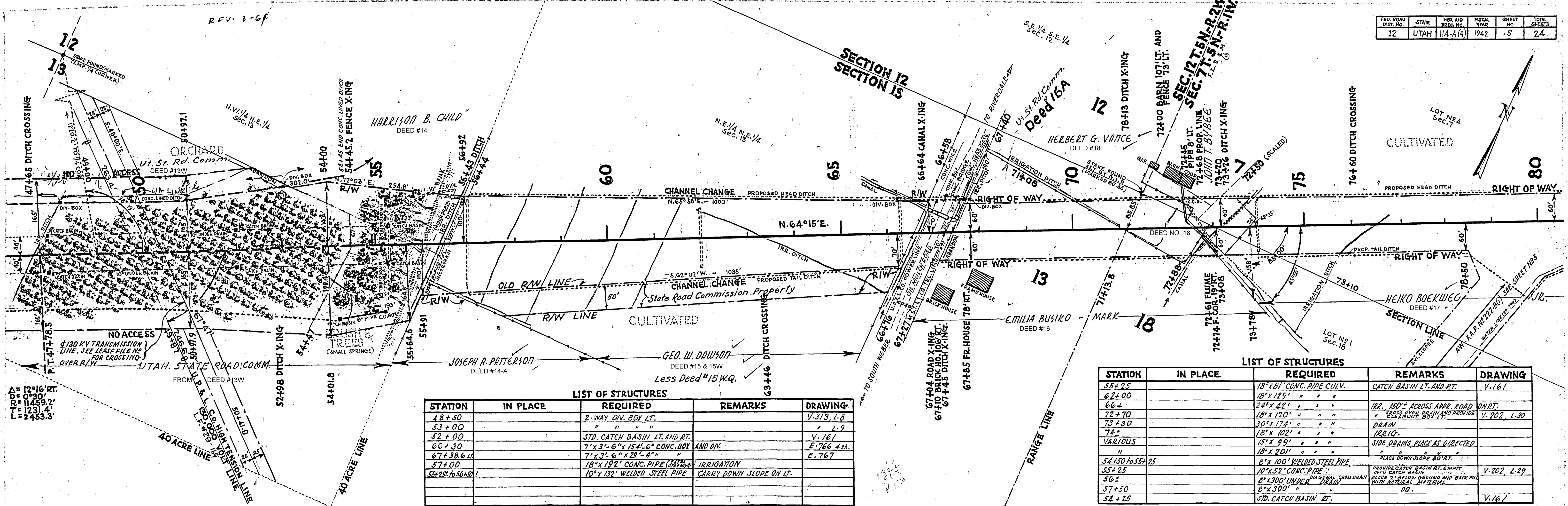
STATION	IN PLACE	REMARKS	DRAWING
55+25		18" x 18" CONC. PIPE CURV.	CATCH BASIN LT. AND RT.
62+00		24" x 22" 4" " "	100' 150" ACROSS APPROX. ROAD
66+00	72+00	18" x 18" " "	" " " "
73+00		30" x 17" " "	DRAIN
74+25		18" x 18" " "	100' 150" ACROSS APPROX. ROAD
VARIOUS		5" x 8" " "	SIDE DRAIN ALONG AS QUOTED
		18" x 20" " "	" " " "
58+50	60+00	8" x 100' WELDED STEEL PIPE	PLACE DOWN SLOPE ON RT.
58+25	60+00	10" x 13" CONC. PIPE	PREVIOUS CHANNEL DRAINAGE
58+25		8" x 300' UNDER	DIAGONAL CROSS DRAIN
58+25		8" x 300' " "	PLACE 2" DIA. DR. QUANTITY AND BACK FILL WITH HALF BR. SANDSTONE
58+25		STD. CATCH BASIN RT.	" " " "



**EMBANKMENT EXCAVATION**  
**REMARKS**



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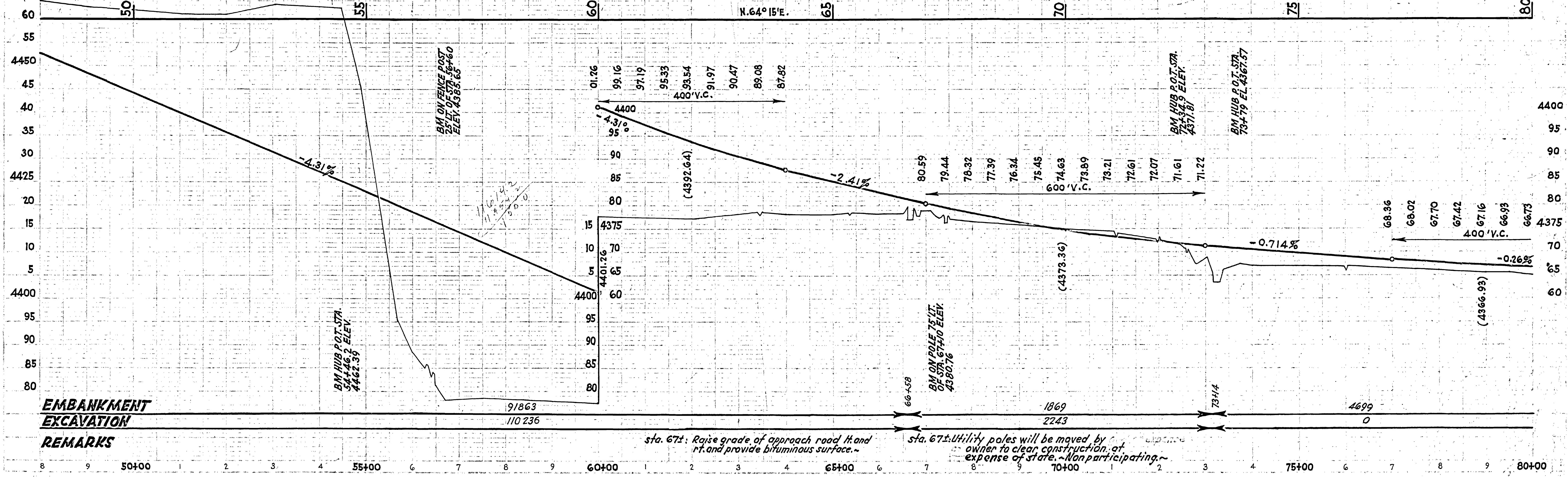


**LIST OF STRUCTURES**

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
48+50		2-WAY DIV. BOX LT.		V.313, L.8
53+00		" " " "		" " L.9
52+00		STD. CATCH BASIN LT. AND RT.		V.161
66+30		7'x3'-6" x 15'-6" CONC. BOX AND DIV.		E.766 4th
67+38.6 LT.		7'x3'-6" x 29'-4" " "		E.767
57+00		18" x 192' CONC. PIPE (STEEL)	IRRIGATION	
55+25 to 56+50		10" x 132' WELDED STEEL PIPE	CARRY DOWN SLOPE ON LT.	

**LIST OF STRUCTURES**

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
55+25		18" x 81' CONC. PIPE CULV.	CATCH BASIN LT. AND RT.	V.161
62+00		18" x 129' " " "	" " " "	" " " "
66+		24" x 27' " " "	IRR. 150'± ACROSS APPR. ROAD ON RT.	" " " "
72+70		18" x 120' " " "	GRASS ROSE DRAIN AND PROVIDE	V.202, L.30
73+30		30" x 172' " " "	" " " "	" " " "
74+		18" x 102' " " "	DRAIN	" " " "
VARIOUS		18" x 99' " " "	IRR. LG.	" " " "
"		18" x 99' " " "	SIDE DRAINS, PLACE AS DIRECTED	" " " "
"		18" x 201' " " "	" " " "	" " " "
54+50 to 55+25		8" x 100' WELDED STEEL PIPE	PLACE DOWN SLOPE 80' RT.	" " " "
55+25		10" x 52' CONC. PIPE	PROVIDE CATCH BASIN RT. EMPTY INTO CATCH BASIN	V.202, L.29
562		8" x 300' UNDER DRAIN	PLACE 2" SAND ON GROUND AND BANK FILL WITH NATURAL MATERIAL	" " " "
57+50		8" x 300' " "	DO.	" " " "
54+25		STD. CATCH BASIN LT.		V.161

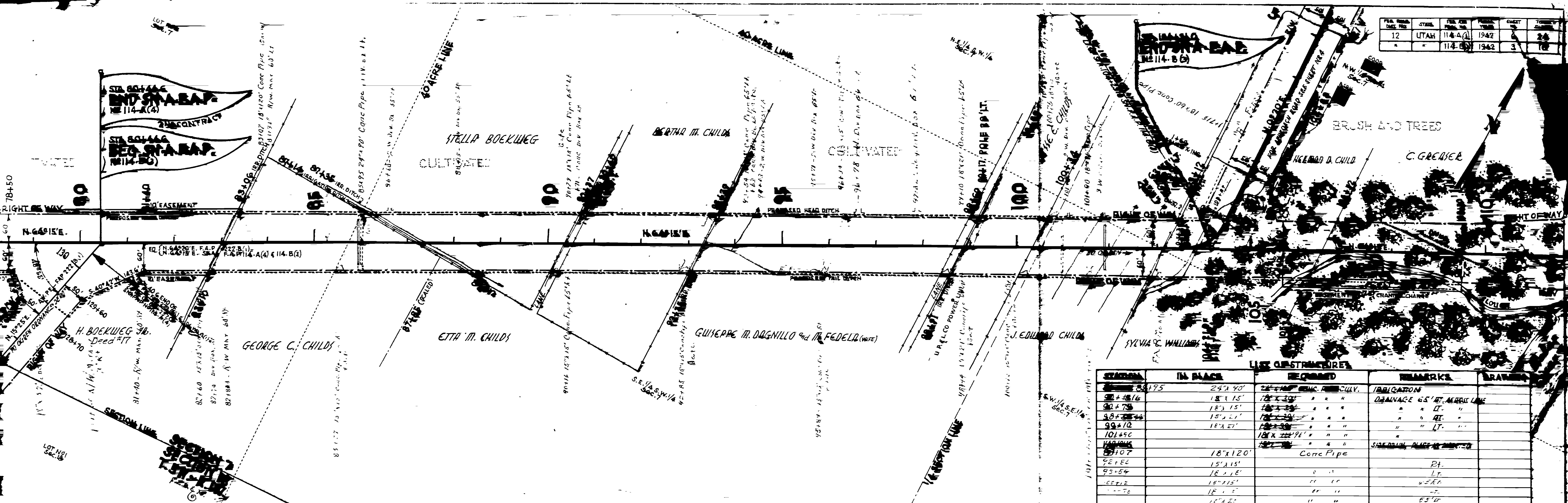


**EMBANKMENT  
EXCAVATION  
REMARKS**

sta. 67±: Raise grade of approach road and provide bituminous surface.  
sta. 67±: Utility poles will be moved by owner to clear construction, at expense of state. ~ Non participating. ~

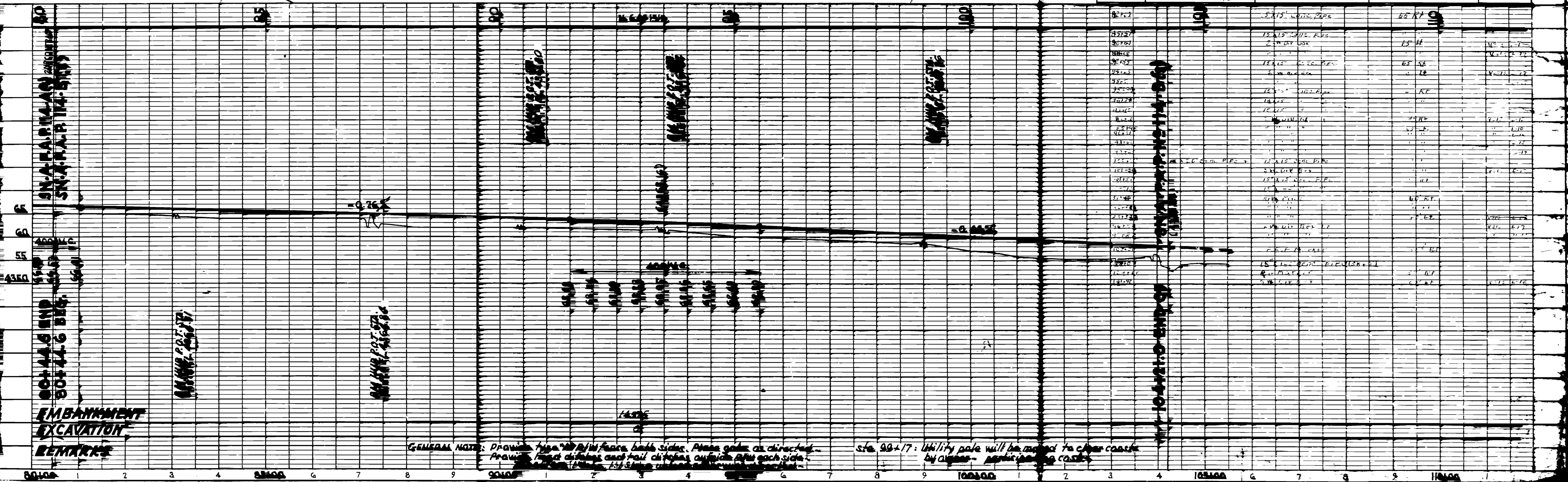
1941  
J. B. BURNS  
H. M. FEHMEI  
H. S. WRIGHT

PLAN SHEET NO.	12	STATE	UTAH	FILE NO.	114-A(1)	DATE	1942	SHEET NO.	24
					114-B(1)		1942	3	10



LIST STRUCTURES

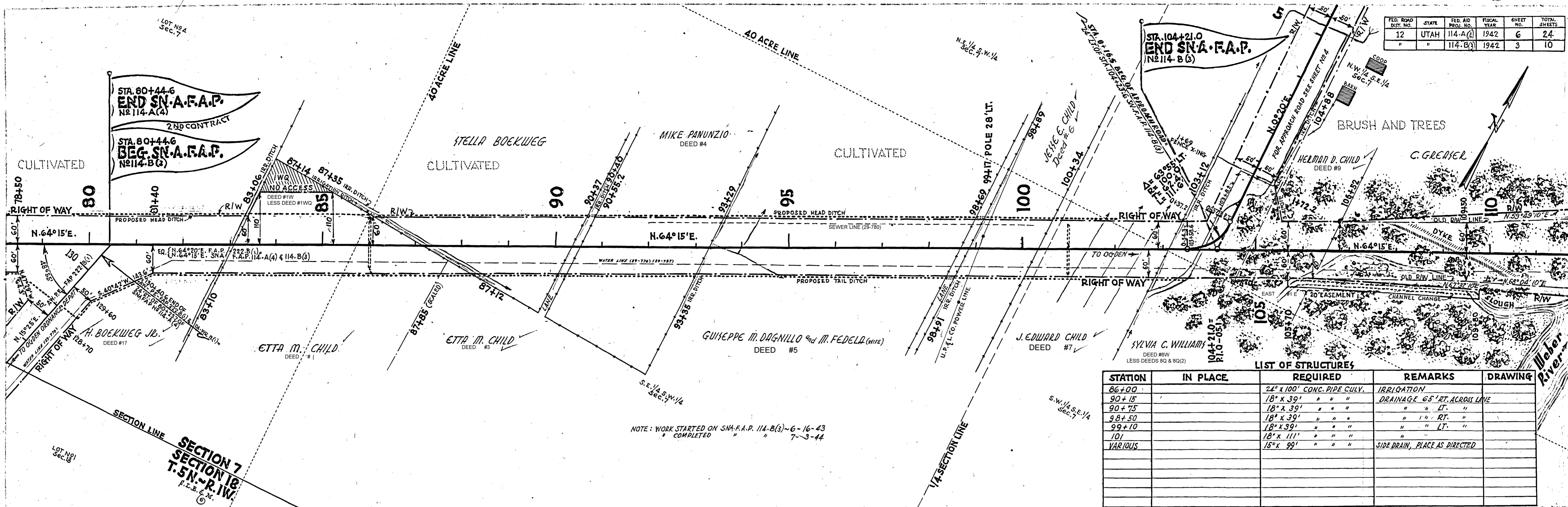
STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
88+195	24' x 40'	22' x 40' CONC. PAVEMENT	1/4" DRAGON	
90+176	18' x 15'	18' x 15' " " "	DRAINAGE 65' RT. ALONG LINE	
90+73	18' x 15'	18' x 15' " " "	" " RT.	
90+70	18' x 15'	18' x 15' " " "	" " RT.	
90+70	18' x 15'	18' x 15' " " "	" " LT.	
101+50		18' x 22' 9" " " "	" " "	
101+06		18' x 22' 9" " " "	SIDE DRAIN, PLACE IN EXISTING	
89+107	18' x 120'	Conc Pipe		
92+52	15' x 15'	" " "	RT.	
93+54	18' x 18'	" " "	LT.	
88+12	18' x 15'	" " "	WEEK	
88+70	18' x 15'	" " "	WEEK	
			65' LT.	



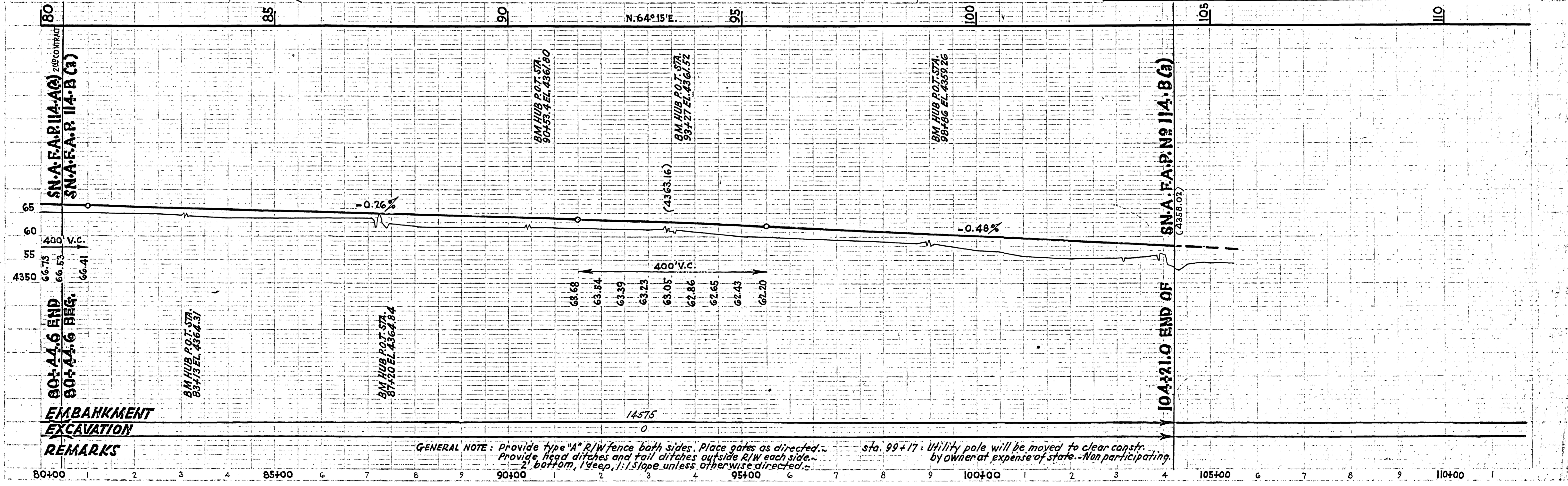
GENERAL NOTE: DRAWING TYPE TO BE IN PLACE BOTH SIDES. PLACE GRAD AS DIRECTED. PROVIDE 1/2" DRAINAGE AND 1/2" DRAINAGE OUTSIDE BOTH SIDES.

Sta. 90+17: Utility pole will be moved to clear easement by owner - participating costs.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	6	24
"	"	114-B(3)	1942	3	10



STATION	IN PLACE	REQUIRED	REMARKS	DRAWING
86+00		24" x 100' CONC. PIPE CULV.	IRRIGATION	
90+15		18" x 39' " " "	DRAINAGE 65' RT. ACROSS LINE	
90+75		18" x 39' " " "	" " LT. "	
98+50		18" x 39' " " "	" " RT. "	
99+10		18" x 39' " " "	" " LT. "	
101		18" x 111' " " "	" " " " "	
VARIOUS		15" x 99' " " "	SIDE DRAIN, PLACE AS DIRECTED	



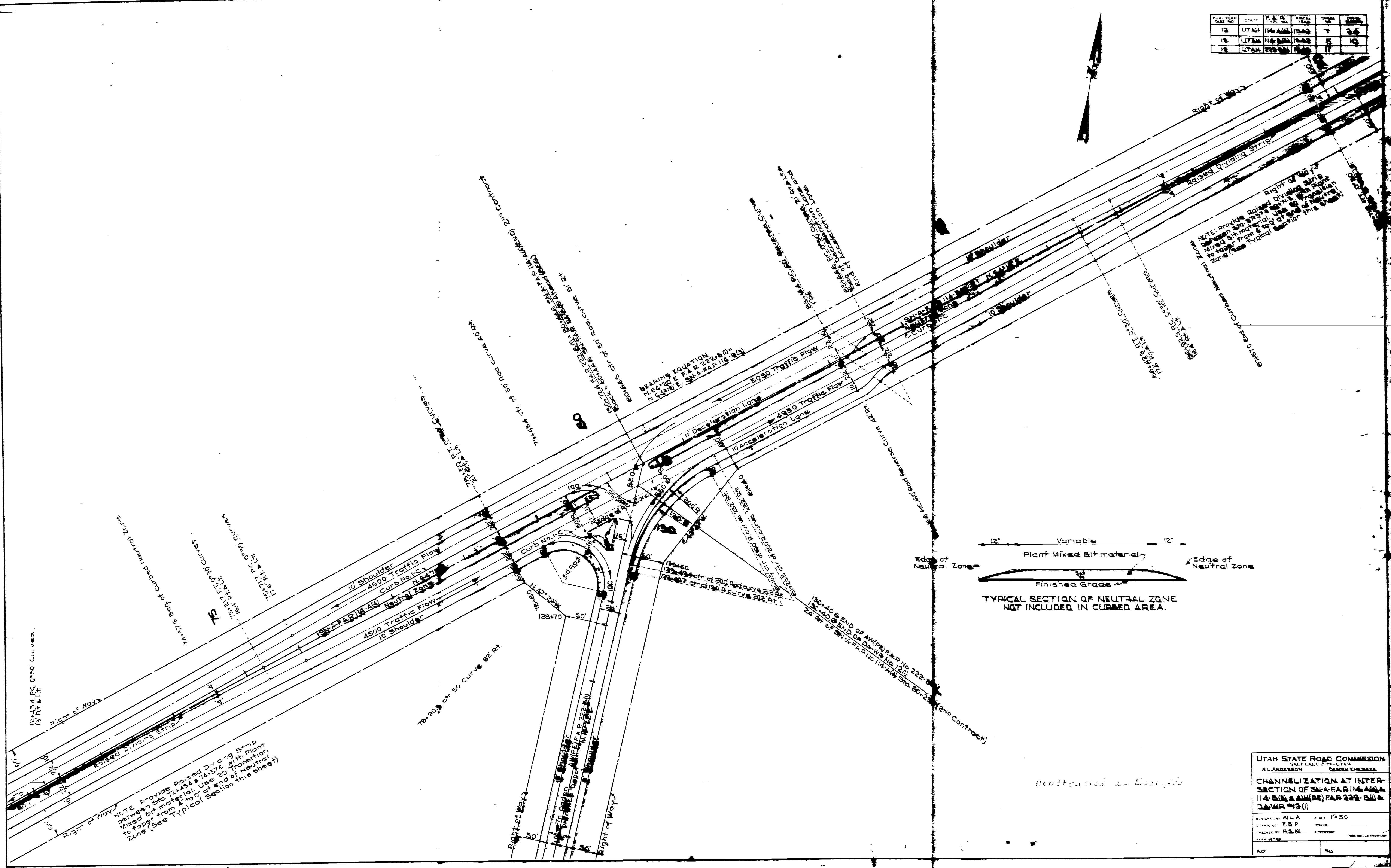
GENERAL NOTE: Provide type "A" R/W fence both sides. Place gates as directed. Provide head ditches and tail ditches outside R/W each side. 2' bottom, 1' deep, 1:1 slope unless otherwise directed. sta. 99+17: Utility pole will be moved to clear const. by owner at expense of state. - Non participating.

1941  
J. B. BURNS  
H. S. WRIGHT  
H. M. FEHMEI  
4855 TRACED

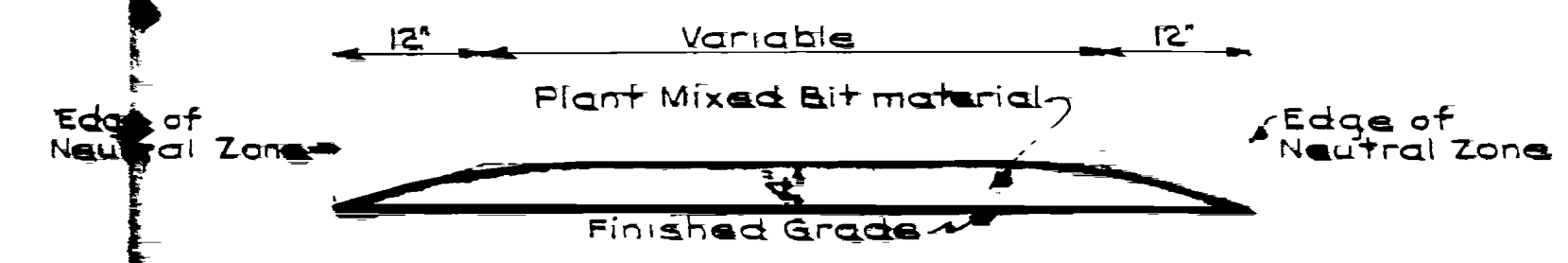
1941  
J. B. BURNS  
H. S. WRIGHT  
H. M. FEHMEI  
H. S. WRIGHT

FED. ROAD DIST. NO.	STATE	P. A. NO.	SCALE	SHEET NO.	TOTAL SHEETS
12	UTAH	114-B-1	1000'	7	20
12	UTAH	114-B-2	1000'	8	20
12	UTAH	114-B-3	1000'	9	20

REVISIONS	DATE	BY



NOTE: Provide Raised Dividing Strip between 10' and 15' shoulders. Mixed Bit material to be used from 4' to 0' at end of Neutral Zone. (See Typical Section this sheet)



TYPICAL SECTION OF NEUTRAL ZONE NOT INCLUDED IN CURBED AREA.

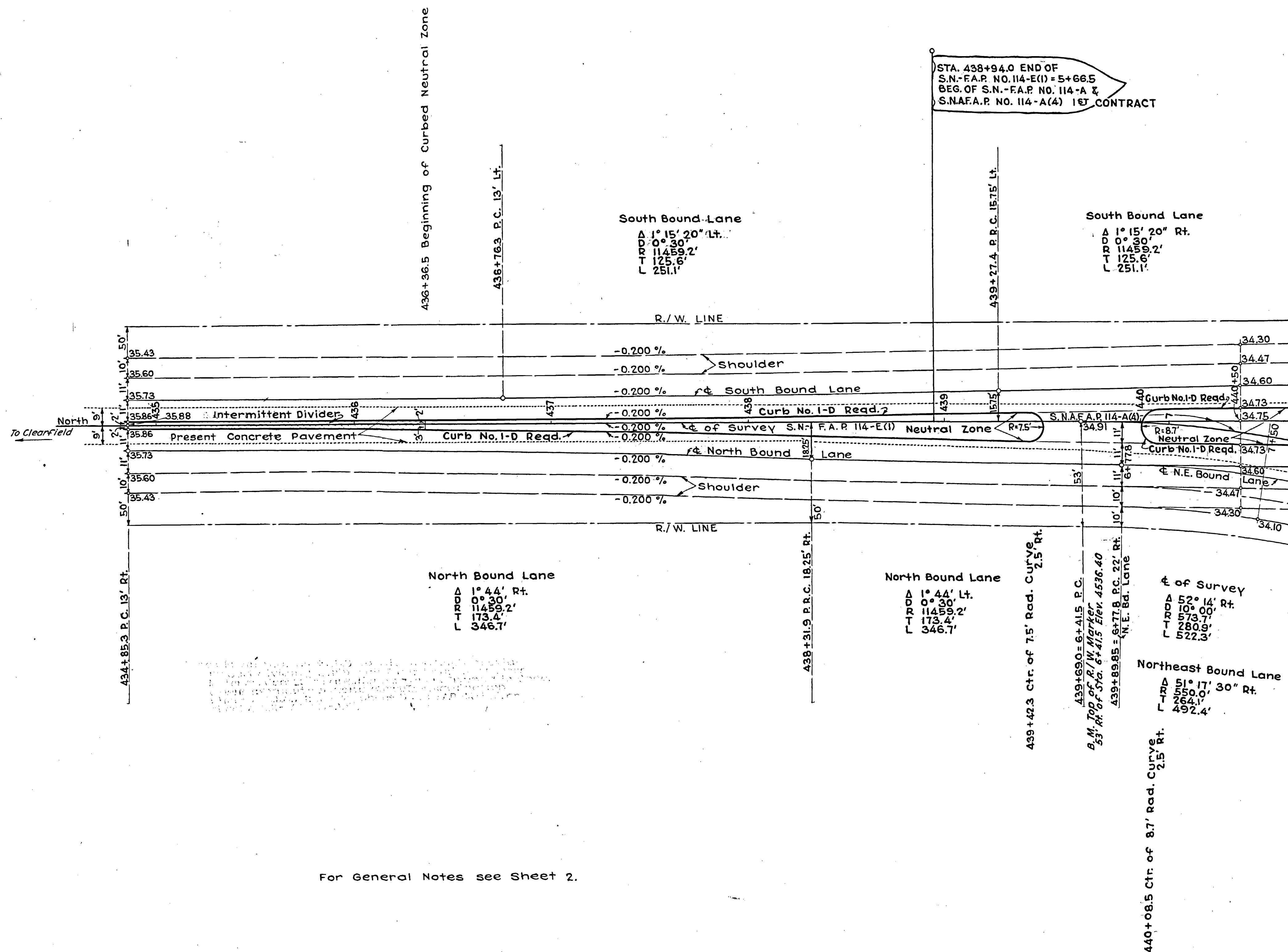
NOTE: Provide Raised Dividing Strip between Sta. 72+134 & 74+576 with Plant Mixed Bit material. Use 20' transition to taper from 4' to 0' at end of Neutral Zone. (See Typical Section this sheet)

LITAH STATE ROAD COMMISSION  
SALT LAKE CITY, UTAH  
K. ANDERSON CHIEF ENGINEER

CHANNELIZATION AT INTERSECTION OF S.W.A. P.A.P. 114-B-1 & S.W.A. P.A.P. 222-B-1  
DRAWN 112 (1)

DESIGNED BY W.L.A. DATE 1-4-50  
CHECKED BY F.B.P.  
APPROVED BY H.S.M.  
NO. NO.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	14	
12	UTAH	114-E(1)	1942	15	
12	UTAH	214-D(1)	1942	13	



For General Notes see Sheet 2.

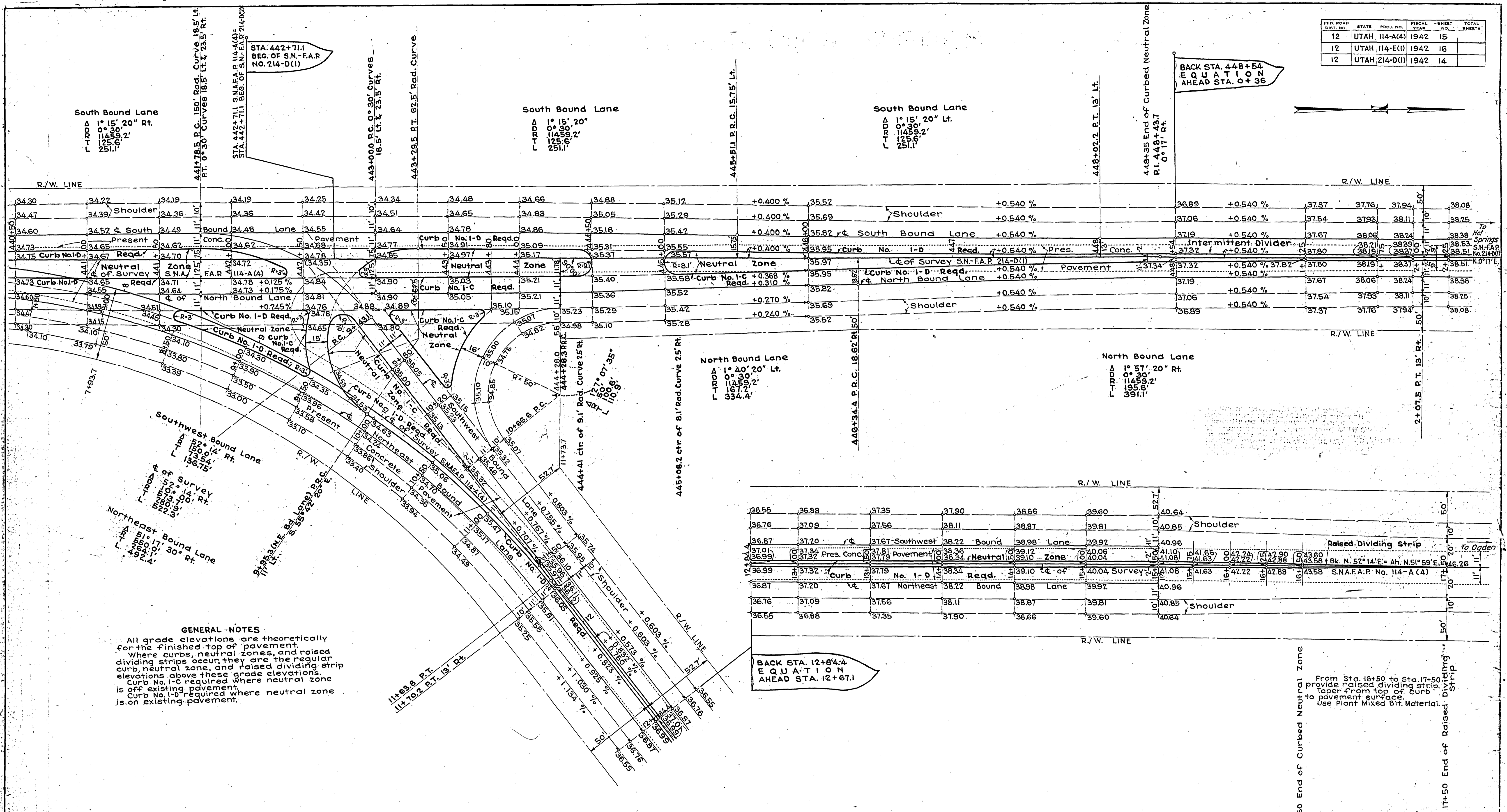
UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY - UTAH  
 W.L. ANDERSON, DESIGN ENGINEER

FOR  
**GRADE SHEET**  
 CHANNELIZED INTERSECTION  
 S.N.A.F.A.P. 114-A(4), S.N.-F.A.P. 114-E(1)  
 & S.N.-F.A.P. 214-D(1)

Scale: 1" = 30'

(SHEET NO. 1 OF 2 SHEETS)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A(4)	1942	15	
12	UTAH	114-E(1)	1942	16	
12	UTAH	214-D(1)	1942	14	



STA. 442+71.1  
BEG. OF S.N.-F.A.P.  
NO. 214-D(1)

BACK STA. 448+54  
EQUATION  
AHEAD STA. 0+36

BACK STA. 12+84.4  
EQUATION  
AHEAD STA. 12+67.1

**GENERAL NOTES**  
 All grade elevations are theoretically for the finished top of pavement. Where curbs, neutral zones, and raised dividing strips occur they are the regular elevations above these grade elevations. Curb No. 1-C required where neutral zone is off existing pavement. Curb No. 1-D required where neutral zone is on existing pavement.

From Sta. 16+50 to Sta. 17+50 provide raised dividing strip taper from top of curb to pavement surface. Use Plant Mixed Bit. Material.

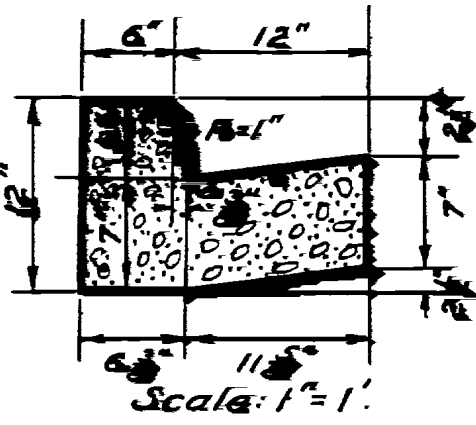
UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 W.L. ANDERSON, DESIGN ENGINEER

**GRADE SHEET**  
 FOR  
**CHANNELIZED INTERSECTION**  
 S.N.A.F.A.P. 114-A(4), S.N.-F.A.P. 114-E(1)  
 & S.N.-F.A.P. 214-D(1)

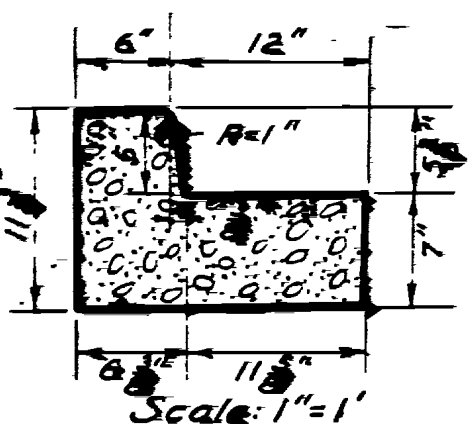
Scale: 1" = 30'

(SHEET NO. 2 OF 2 SHEETS)

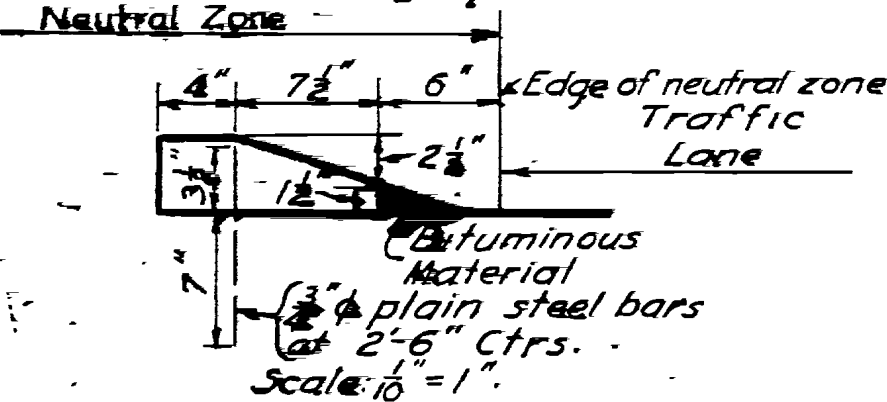
**CURB & GUTTER NO. 1**  
AREA = 1.082 SQ. FT.



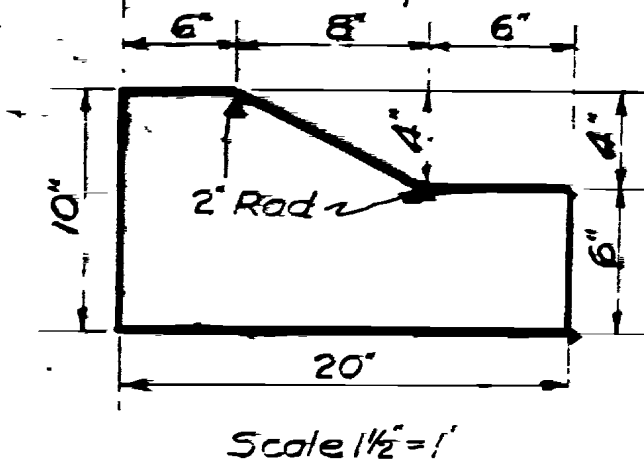
**CURB & GUTTER NO. 1-A**  
AREA = 1.081 SQ. FT.



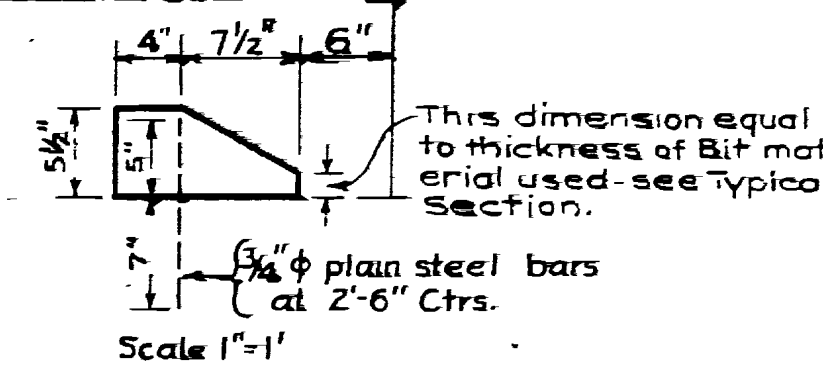
**CURB NO. 1-B**  
Area = 0.254 Sq. ft.



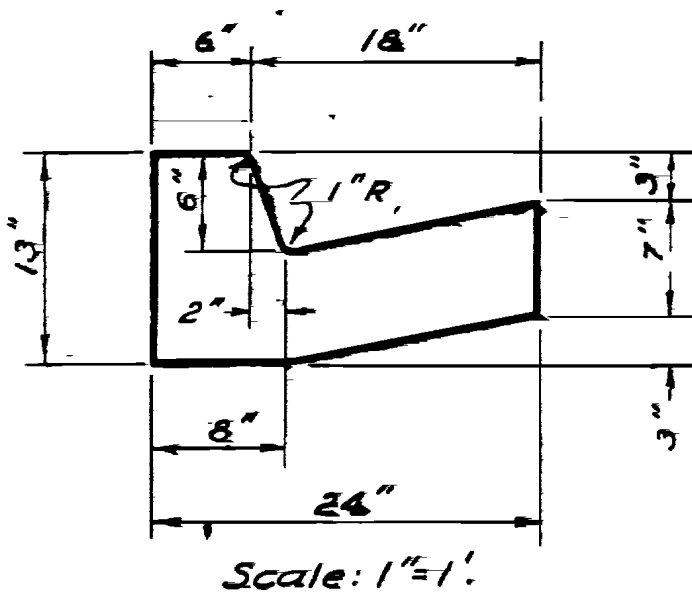
**CURB NO. 1-C**  
Area = 1.11 Sq. ft.



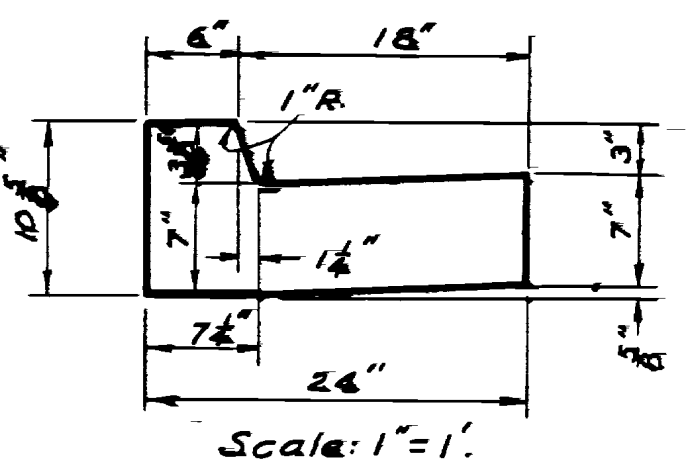
**CURB NO. 1-D**  
Neutral Zone Area = 0.335 Sq. ft.



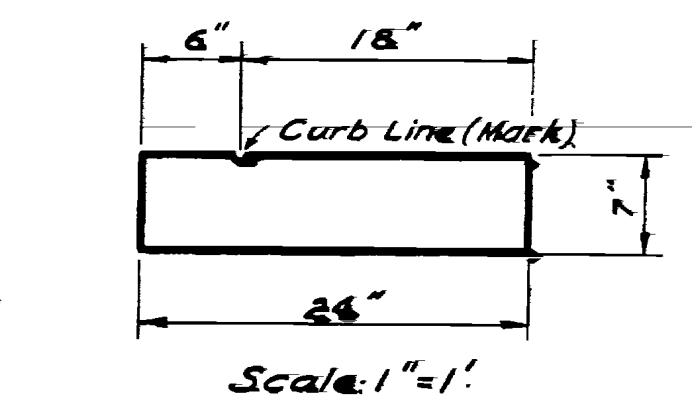
**CURB & GUTTER NO. 2**  
AREA = 1.46 SQ. FT.



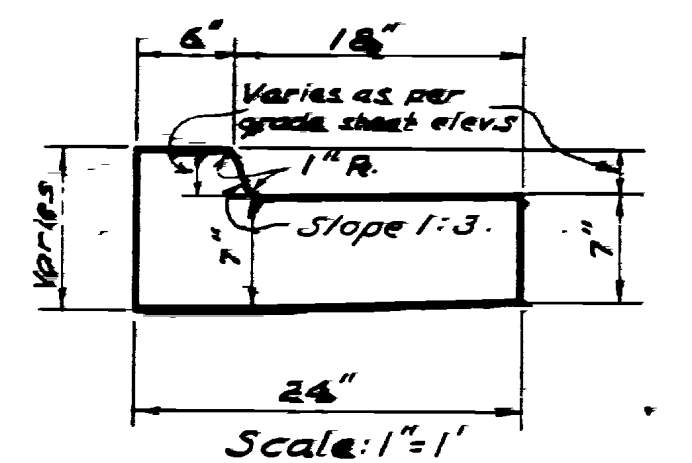
**CURB & GUTTER NO. 2-A**  
AREA = 1.33 SQ. FT.



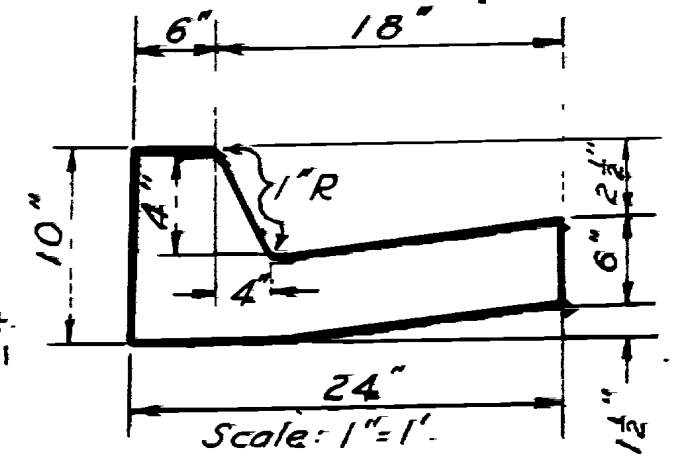
**CURB & GUTTER NO. 2-B**  
AREA = 1.17 SQ. FT.



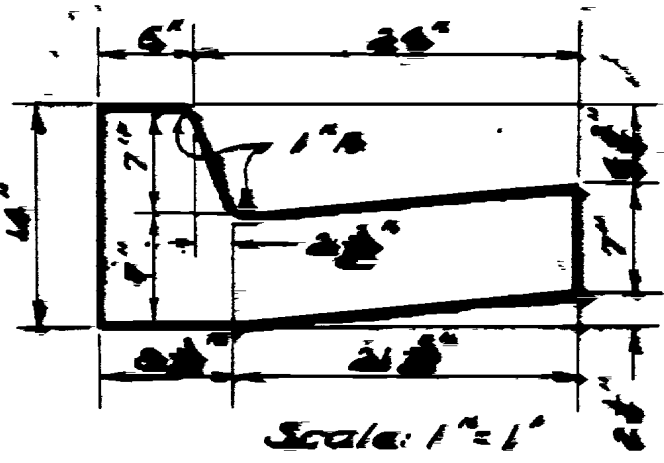
**CURB & GUTTER NO. 2-C**  
AREA = 1.30 SQ. FT. ±



**CURB & GUTTER NO. 2-D**  
Area = 1.221 Sq. Ft.



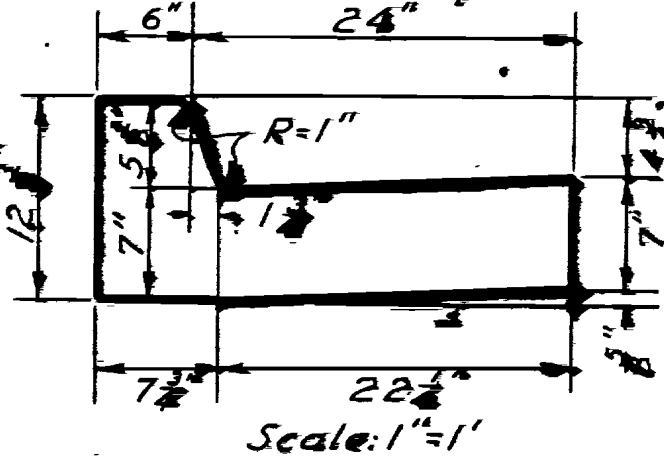
**CURB & GUTTER NO. 3**  
AREA = 1.604 SQ. FT.



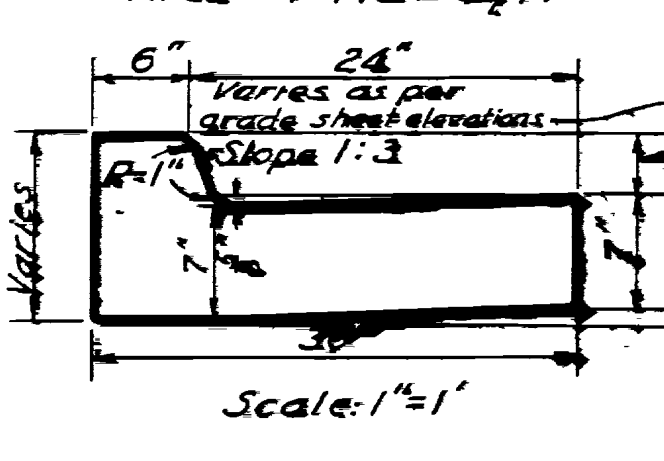
**CURB & GUTTER NO. 3-A**  
Area = 1.625 Sq. Ft.



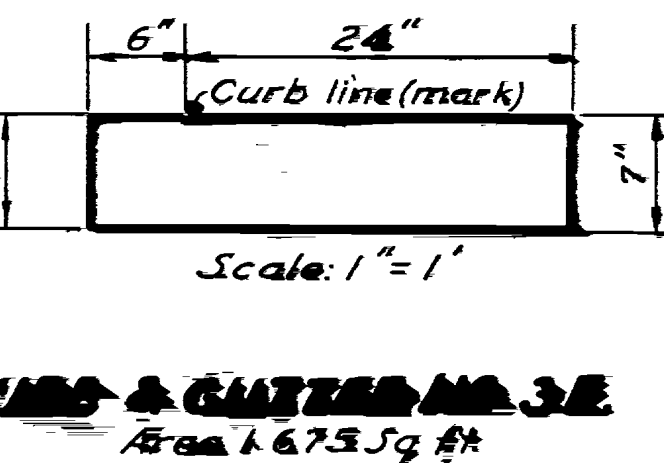
**CURB & GUTTER NO. 3-B**  
Area = 1.715 Sq. ft.



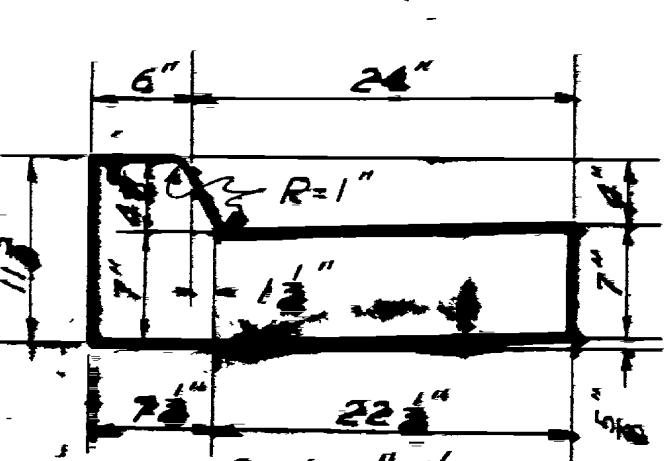
**CURB & GUTTER NO. 3-C**  
Area = 1.715 ± Sq. ft.



**CURB & GUTTER NO. 3-D**  
Area = 1.458 Sq. ft.

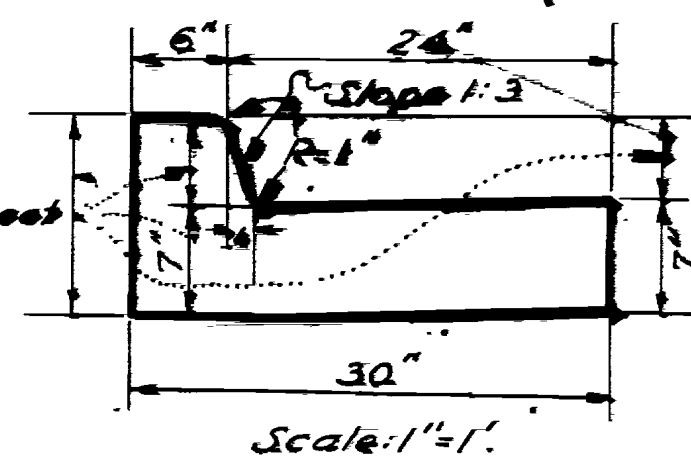


**CURB & GUTTER NO. 3-E**  
Area = 1.675 Sq. ft.

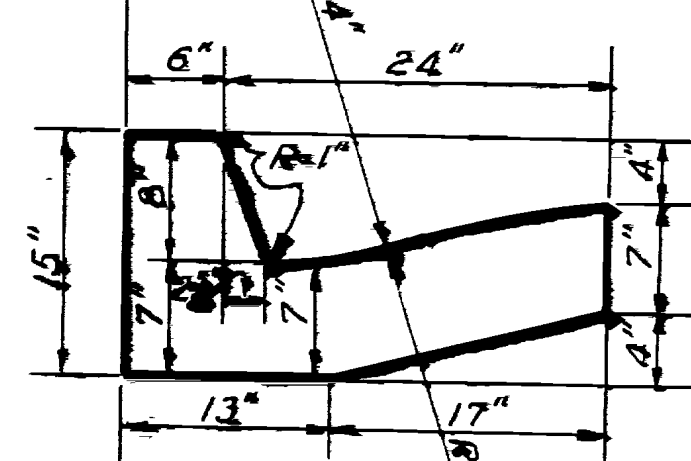


**CURB & GUTTER NO. 3F**  
Area = 1.713 ± Sq. Ft.

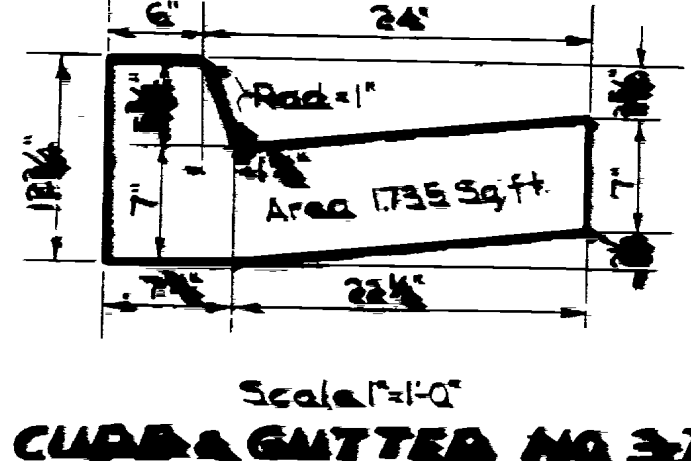
Varies as per grade sheet elevations.



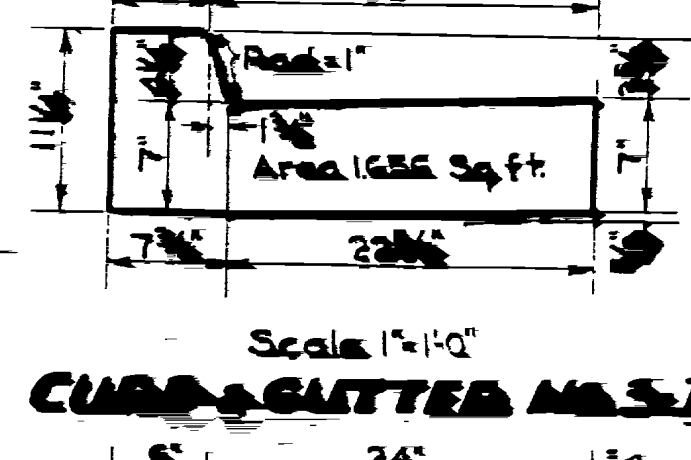
**CURB & GUTTER NO. 3G**



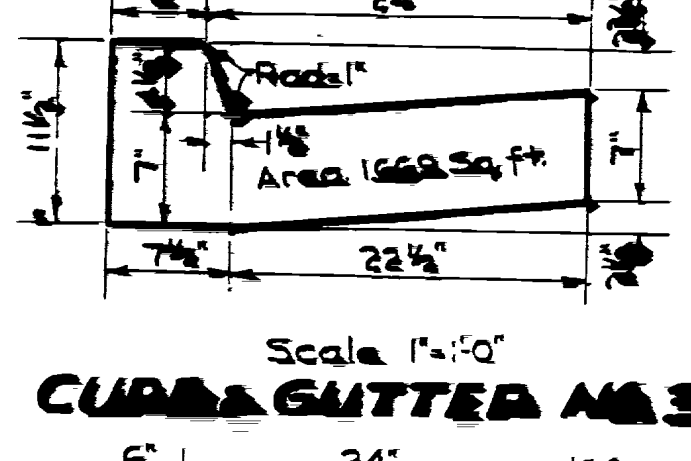
**CURB & GUTTER NO. 3H**  
Area = 1.924 sq. ft.  
Scale: 1"=1'



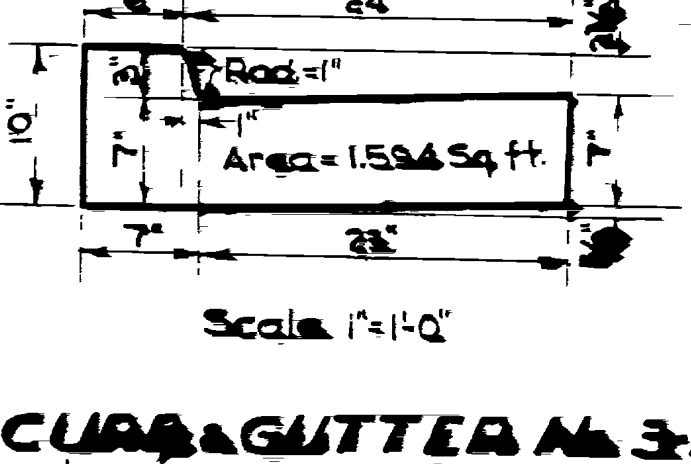
**CURB & GUTTER NO. 3I**



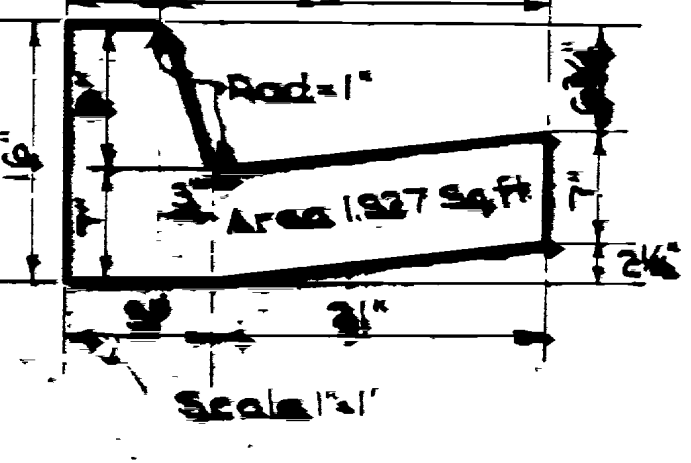
**CURB & GUTTER NO. 3J**



**CURB & GUTTER NO. 3K**



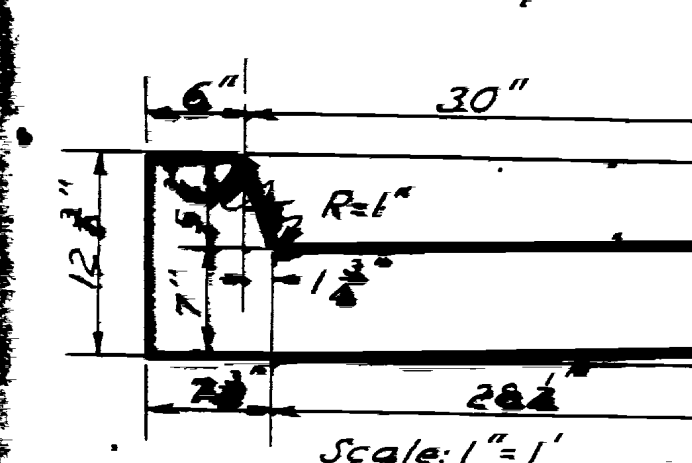
**CURB & GUTTER NO. 3-L**



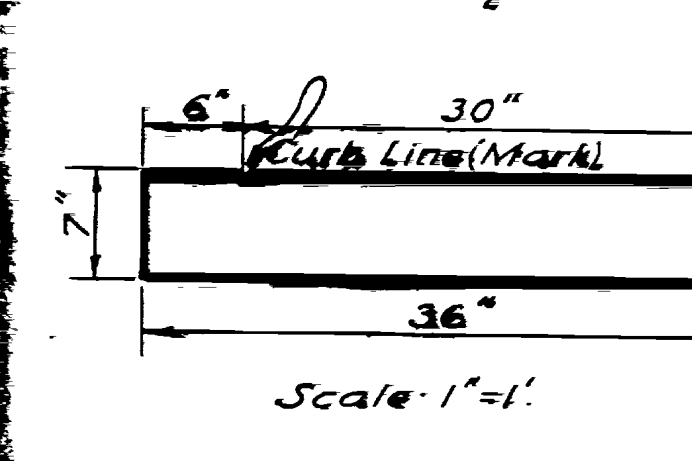
**CURB & GUTTER NO. 4**  
Area = 2.100 sq. ft.



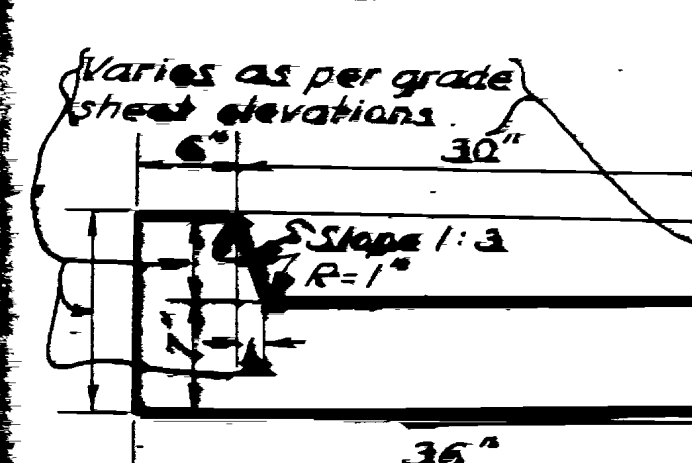
**CURB & GUTTER NO. 4A**  
Area = 2.007 sq. ft.



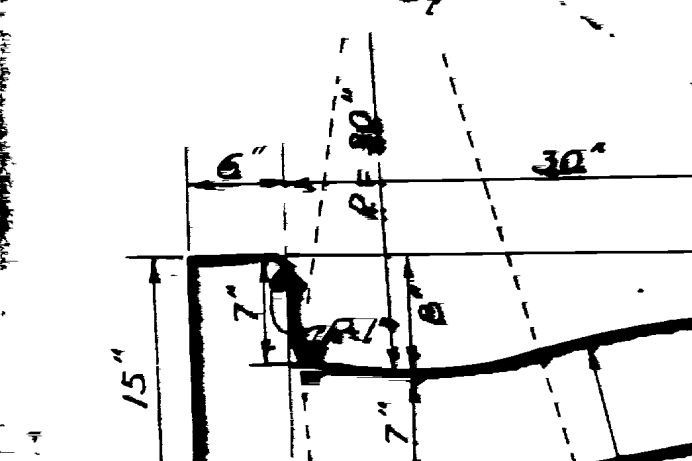
**CURB & GUTTER NO. 4B**  
Area = 1.75 Sq. ft.



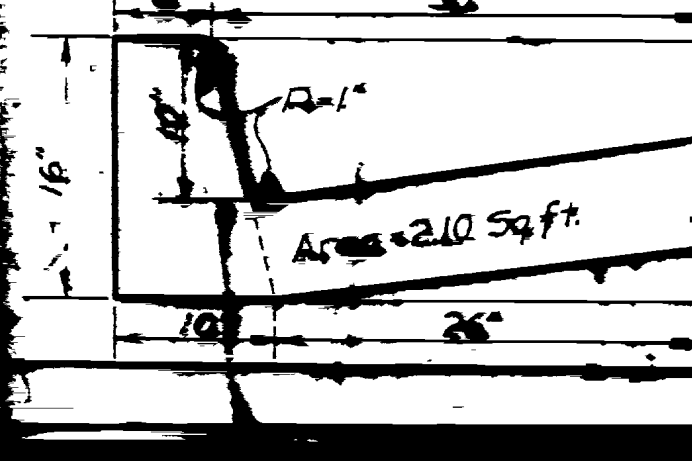
**CURB & GUTTER NO. 4C**  
Area = Variable



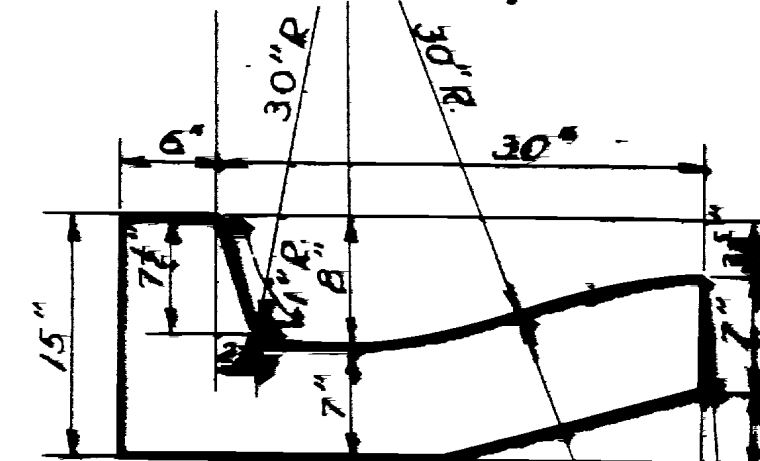
**CURB & GUTTER NO. 4D**  
Area = 2.15 Sq. ft.



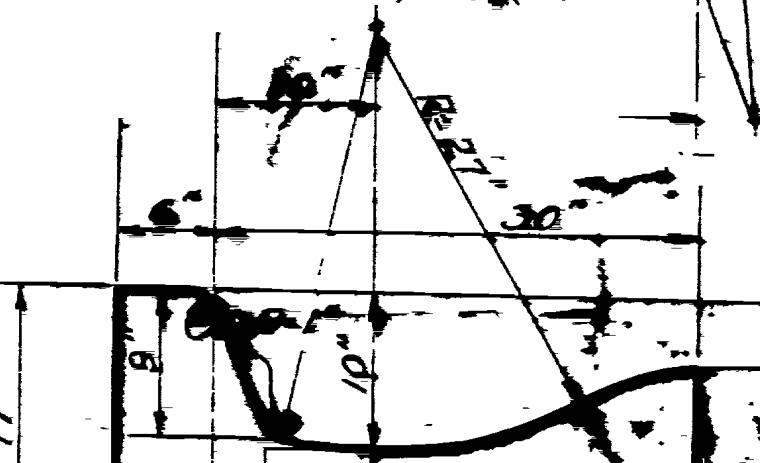
**CURB & GUTTER NO. 4-E**



**CURB & GUTTER NO. 4-F**  
Area = 2.157 Sq. ft.



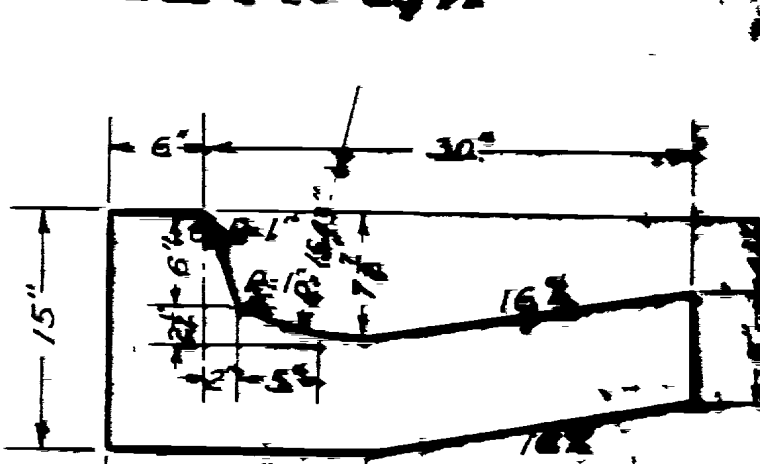
**CURB & GUTTER NO. 4-G**  
Area = 2.157 Sq. ft.



**CURB & GUTTER NO. 4-H**  
Area = 2.22 Sq. ft.



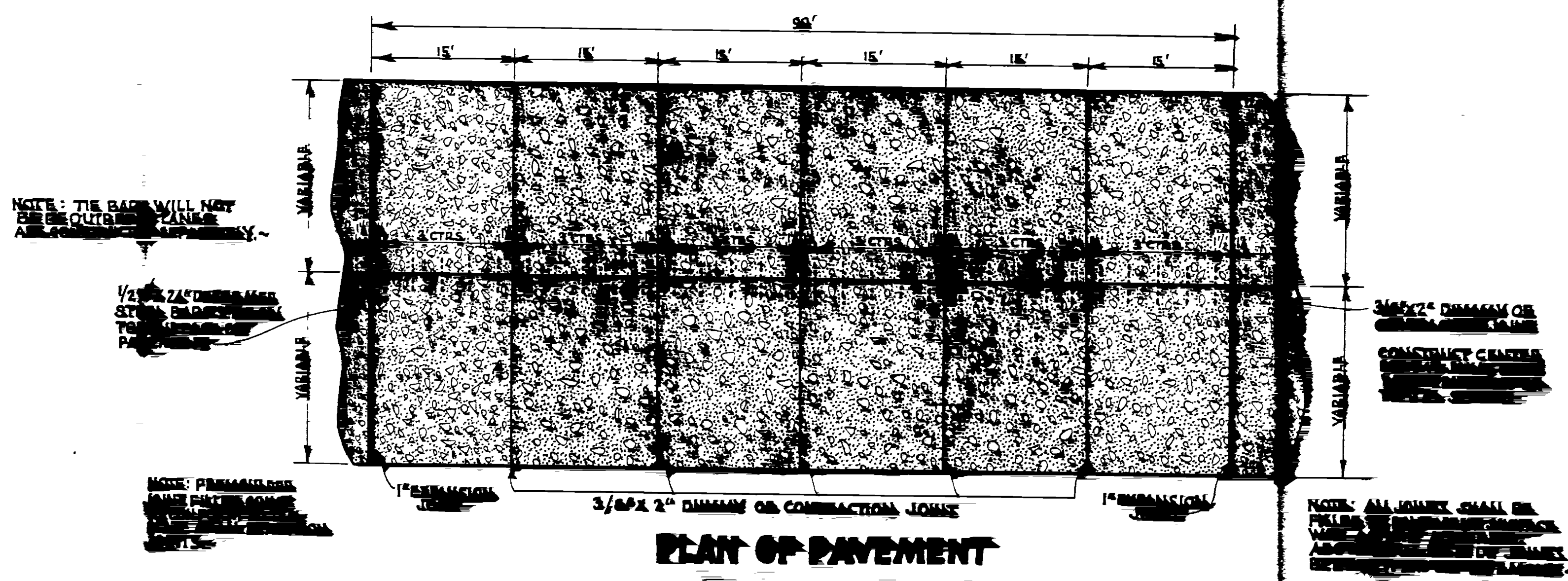
**CURB & GUTTER NO. 4-I**  
Area = 2.20 Sq. ft.



PROJECT NO.	STATE	FILE NO.	DATE

UTAH STATE ROAD COMMISSION  
SALT LAKE CITY, UTAH  
EDM. C. HANSEN, CHIEF ENGINEER  
**CROSS SECTIONS  
VARIOUS TYPES  
CURB & GUTTER**

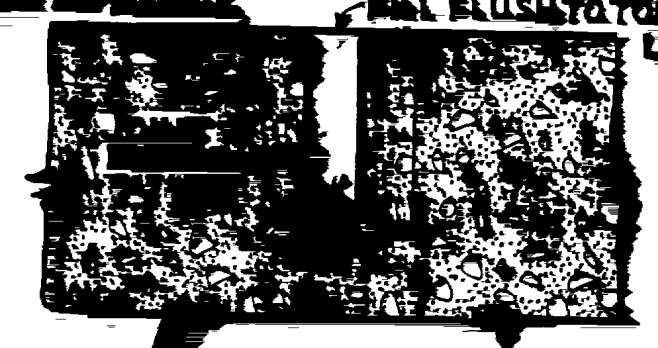
# TYPICAL CROSS SECTION



**PLAN OF PAVEMENT**

TRANSVERSE EXPANSION AND TRANSVERSE DIMENSION SHALL BE AS SHOWN.

REINFORCEMENT SHALL BE PLACED IN THE JOINTS AS SHOWN.



**DETAIL OF DUMMY JOINT**  
(CONSTRUCTION JOINT)

REVISIONS
DATE
BY
BY

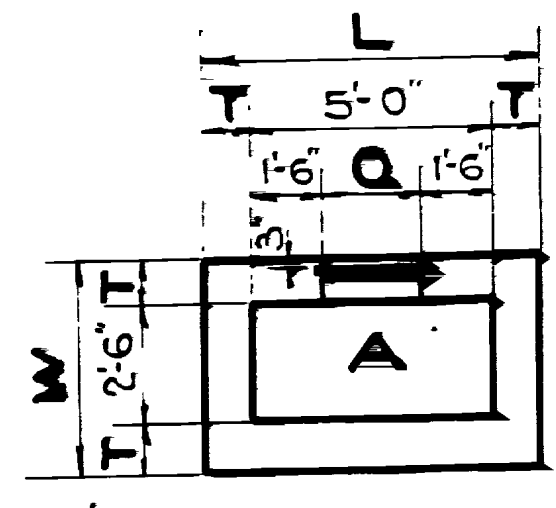
UTAH STATE ROAD COMMISSION  
SALT LAKE CITY - UTAH  
W. L. ANDERSON - ENGINEER

— TYPE —

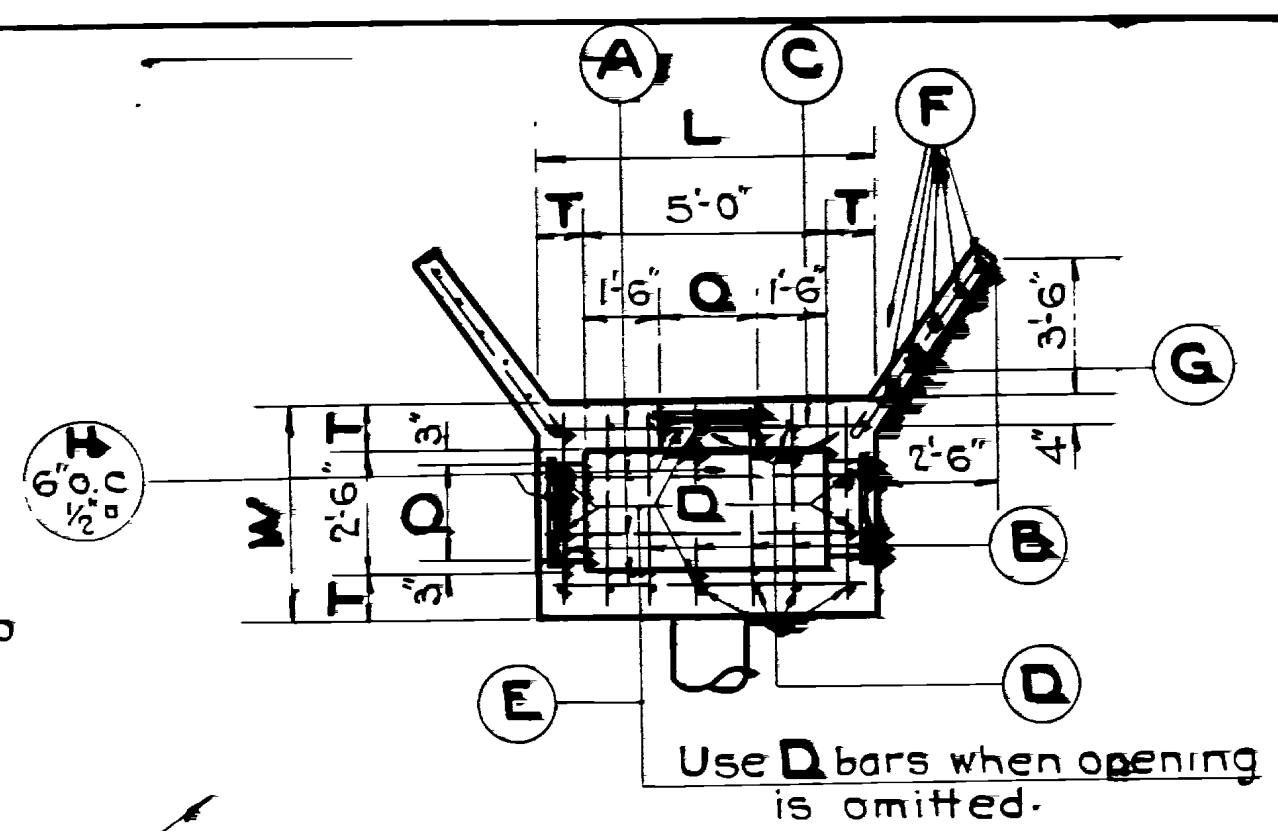
REINFORCING & JOINT DETAILS  
FOR PORTLAND CEMENT CONC.  
PAVEMENT

DRG-107-9

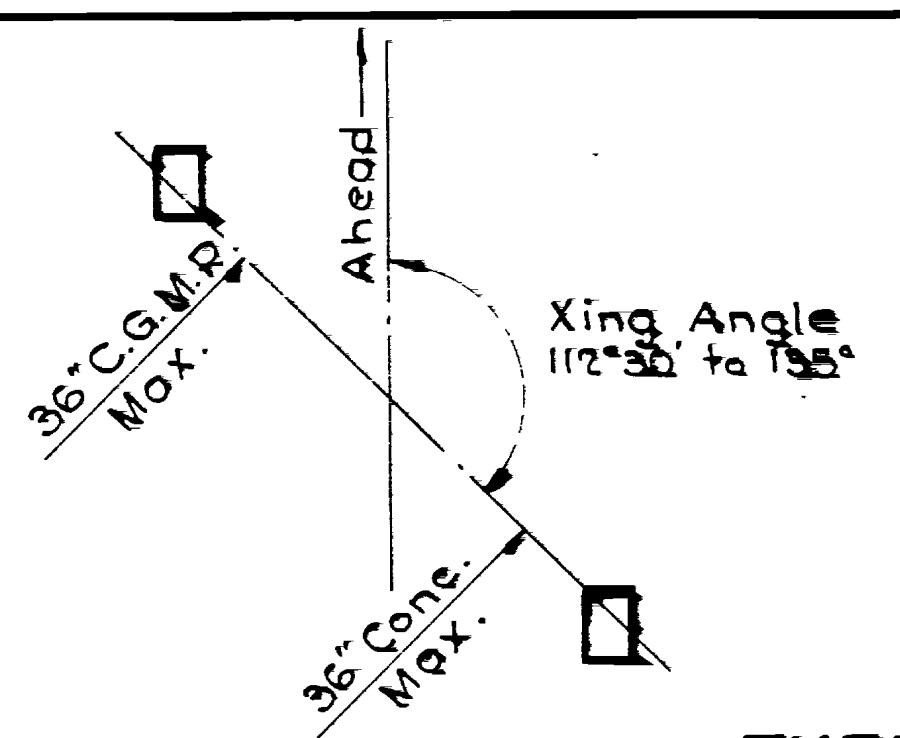




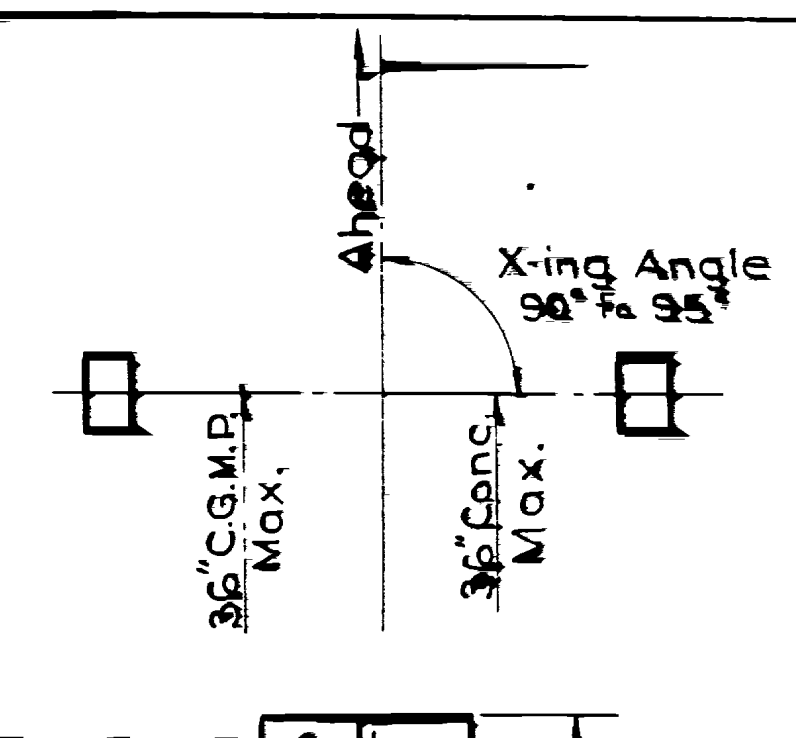
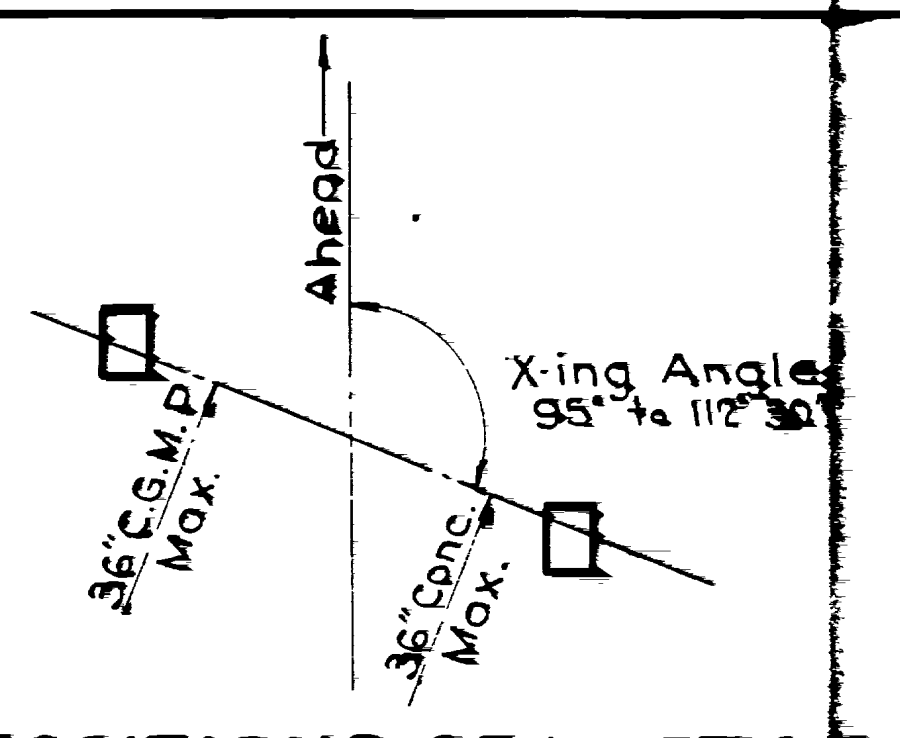
A with Inlet or Outlet Lip in End Wall Only



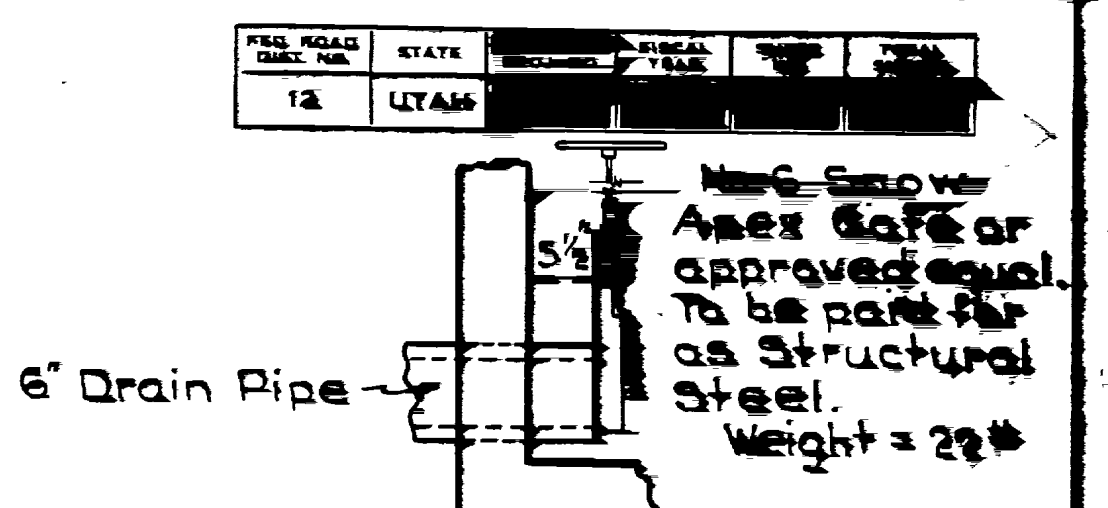
Use D bars when opening is omitted.



TYPICAL POSITIONS OF INLET & OUTLET WELLS



DRAIN GATE

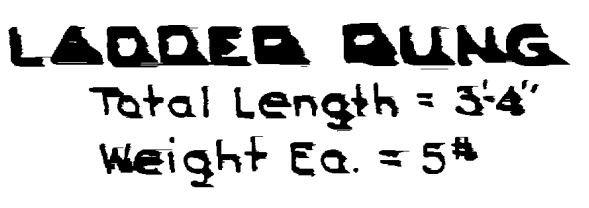


**GENERAL NOTES**

Materials, construction and workmanship shall be in accordance with State Standard Specifications for Road and Bridge Construction, edition of 1933.  
 All exposed edges to be chamfered 1". Concrete to be Cl. 3.  
 All reinforcing steel to be #4 except "H" bars, which are to be #3 and used in Inlets and Outlets of wells.  
 Excavations for structures shall include excavation for pipe and wells.  
 Grating to receive one shop coat of State Std. Red Lead and Oil paint and two field coats of State Standard Aluminum or Gray Paint.

1" wide x 1 1/2" deep groove for 1" Douglas Fir Headgate. To be included in unit price bid for concrete.

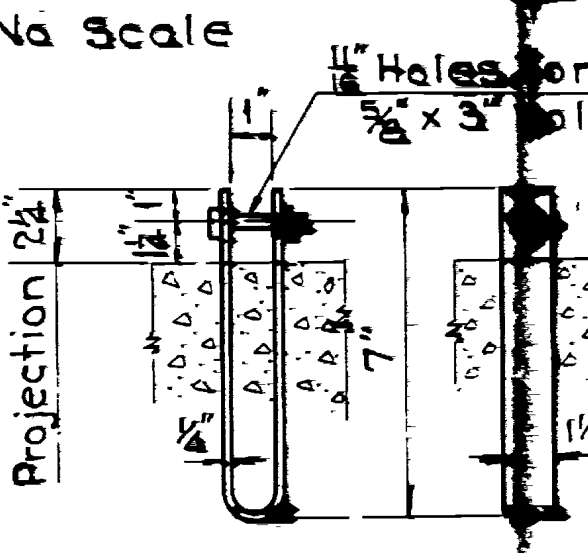
Extend cut off wall to these dimensions when required.



LADDER RUNG  
Total Length = 3'-4"  
Weight Ea. = 5#



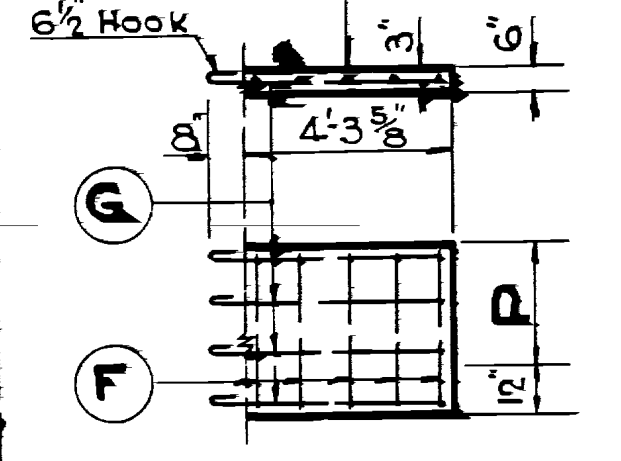
HINGE DETAIL



LOCK DETAIL FOR COVER B



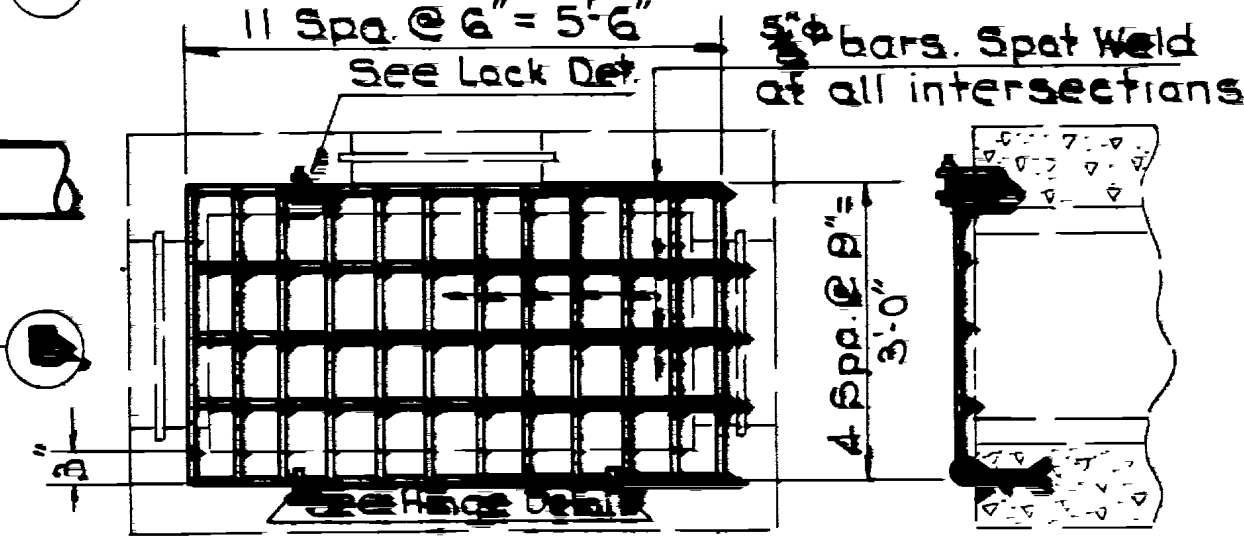
LOCK DETAIL FOR COVER A



DETAIL CUT OFF WALL

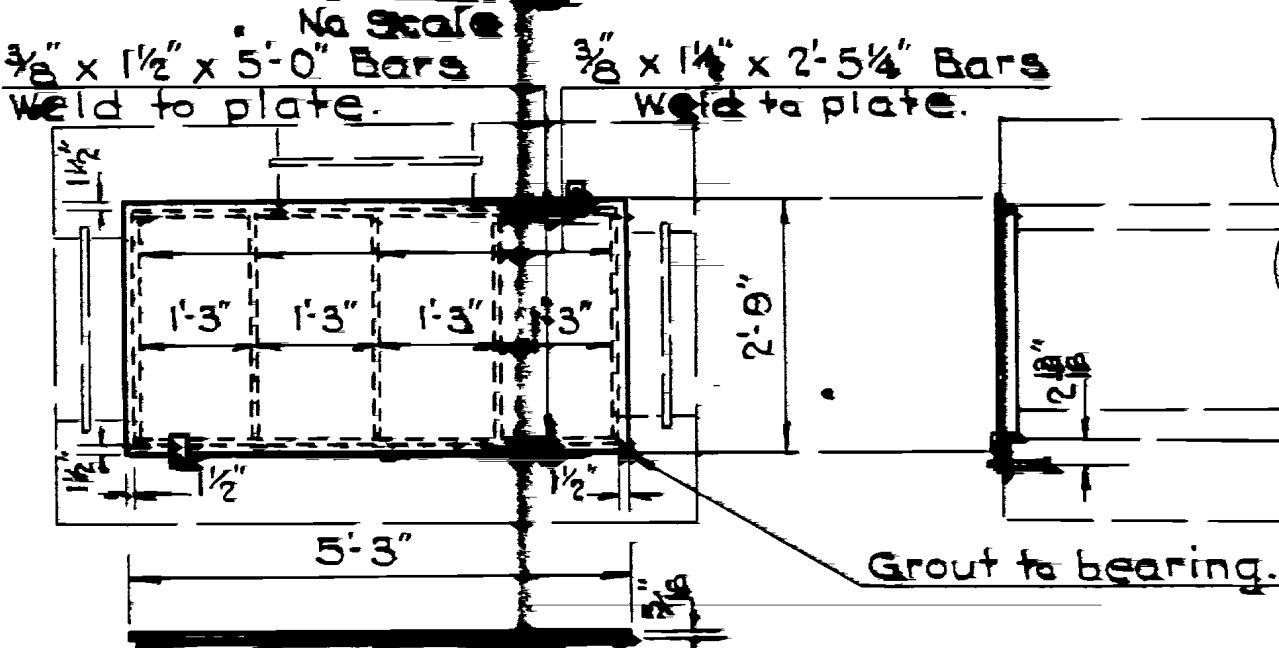
**TYPICAL SECTIONS**

Note: + before distance denotes F.L. above Finish Grade  
 - " " below  
 Spacing of all bars 12" O.C except as noted.



DETAIL OF INLET & OUTLET GRATING

Note: Grating shall come equipped with lock and hinges. To be paid for as structural steel. Total weight = 71 lbs.



DETAIL OF INLET & OUTLET COVER B

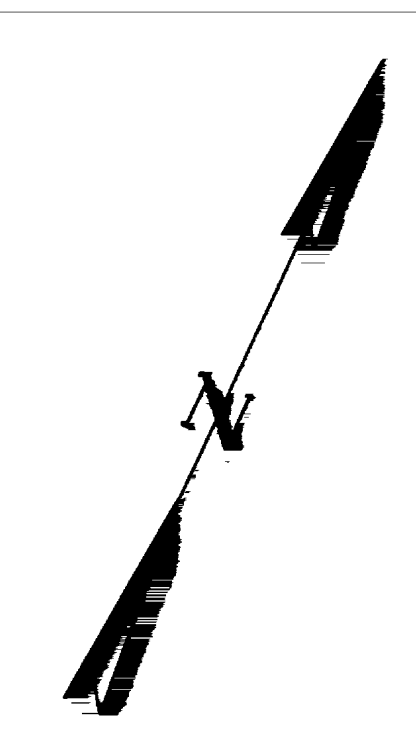
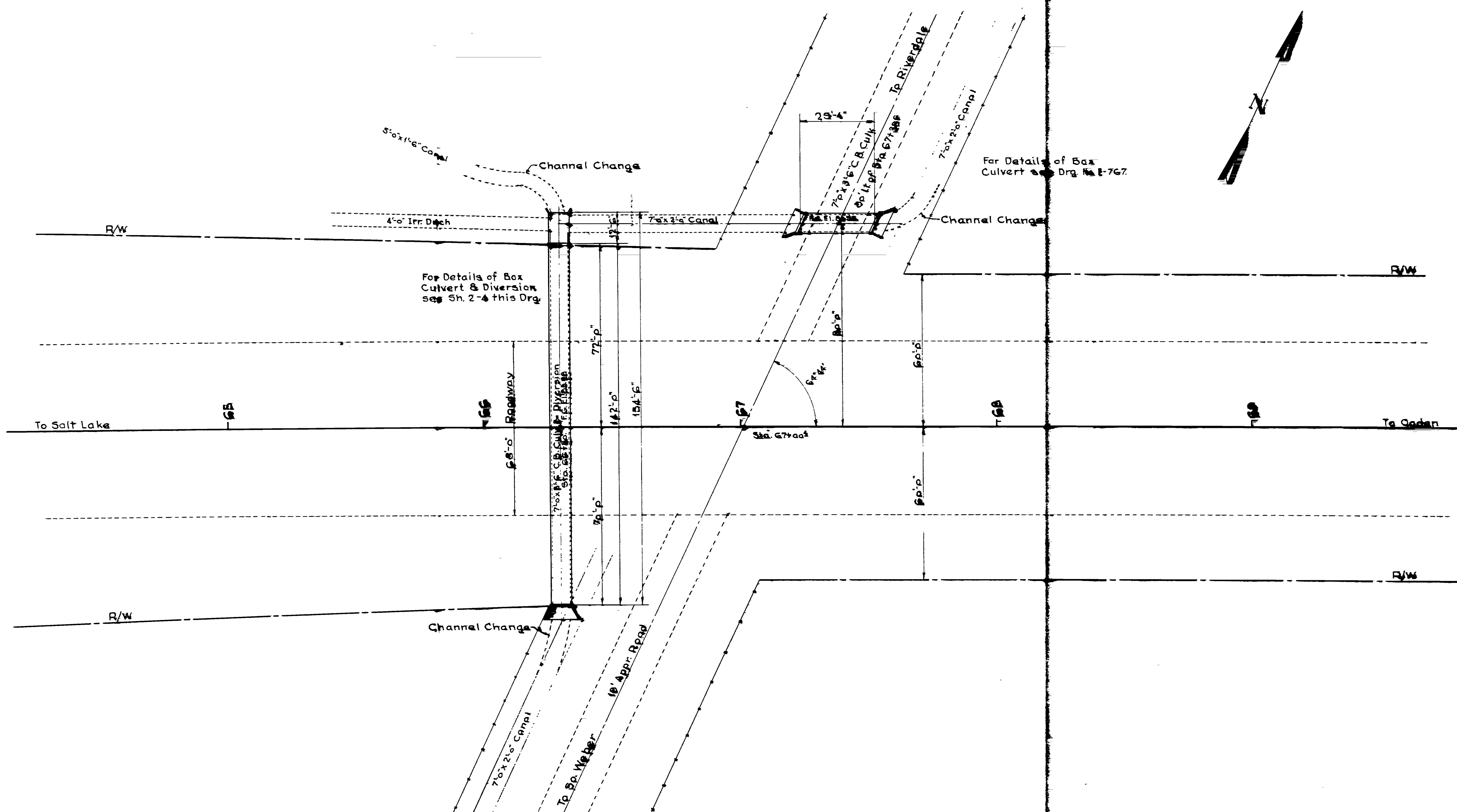
Total Weight = 227# complete

REVISIONS

LINE No.	INLET TYPE	OUTLET TYPE	SIZE	KIND	MATERIAL	DIRECTION	XING ANGLE	DISTANCE FROM F.G. TO FL. OF PIPE			INLET WELL								OUTLET WELL								TOTAL		CUT OFF WALL	GRATING	GRAND TOTALS		LINE No.	STA.																		
								PIPE	INLET LIP	OUTLET LIP	T	W	L	K	M	O	P	T	W	L	J	H	O	P	STEEL	CONC.	STEEL	CONC.																								
1	A	B	18"	CONC.	105	Rt. to Lt.	90°	-3.87	-0.67	-1.71	8"	3'-10"	6'-4"	3'-0"	5'-0"	2'-0"	2'-0"	8"	3'-10"	6'-4"	3'-0"	5'-0"	2'-0"	2'-0"	8"	3'-10"	6'-4"	3'-0"	5'-0"	2'-0"	2'-0"	12	3	7	11	14	13	-	-	4	-	2	Timber	39	358.6	5.20						
2	A	B	18"	CONC.	108	Rt. to Lt.	90°	-3.1	-0.1	-0.3	8"	3'-10"	6'-4"	3'-1"	4'-8"	2'-0"	0'-10"	8"	3'-10"	6'-4"	3'-1"	4'-8"	2'-0"	0'-10"	8"	3'-10"	6'-4"	3'-1"	4'-8"	2'-0"	0'-10"	12	3	7	11	14	13	-	-	6	-	2	Timber	44	378.8	4.60						
3	B	B	18"	CONC.	105	Rt. to Lt.	90°	-3.5	-2.21	-2.51	8"	3'-10"	6'-4"	2'-2"	3'-8"	2'-0"	1'-6"	8"	3'-10"	6'-4"	2'-2"	3'-8"	2'-0"	1'-6"	8"	3'-10"	6'-4"	2'-2"	3'-8"	2'-0"	1'-6"	12	3	7	11	-	-	4	9	14	3	6	2	19	2	2	Timber	21	4.69	-		
4	A'	C'	18"	CONC.	112	Rt. to Lt.	90°	-4.0	-2.75	-3.00	8"	3'-10"	6'-4"	2'-3"	4'-8"	1'-6"	2'-0"	8"	3'-10"	6'-4"	2'-3"	4'-8"	1'-6"	2'-0"	8"	3'-10"	6'-4"	2'-3"	4'-8"	1'-6"	2'-0"	12	3	7	11	-	-	2	Timber	20	5.11	-										
5	A	A	18"	CONC.	102	Lt. to Rt.	90°	-4.0	-1.33	-3.08	8"	3'-10"	6'-4"	3'-8"	5'-8"	1'-6"	2'-0"	8"	3'-10"	6'-4"	3'-8"	5'-8"	1'-6"	2'-0"	8"	3'-10"	6'-4"	3'-8"	5'-8"	1'-6"	2'-0"	12	3	7	11	14	13	-	-	2	Timber	20	5.11	-								
6	A	A	18"	CONC.	190	Rt. to Lt.	120°	-3.5	-0.46	-0.66	8"	3'-10"	6'-4"	4'-0"	5'-6"	2'-0"	1'-6"	8"	3'-10"	6'-4"	4'-0"	5'-6"	2'-0"	1'-6"	8"	3'-10"	6'-4"	4'-0"	5'-6"	2'-0"	1'-6"	12	3	7	11	-	-	2	Timber	20	5.11	-										

UTAH STATE ROAD COMMISSION  
 STANDARD  
 DRAWING NO. \_\_\_\_\_  
 SCALE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	SURV. PLAN	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
12	UTAH	116A40			

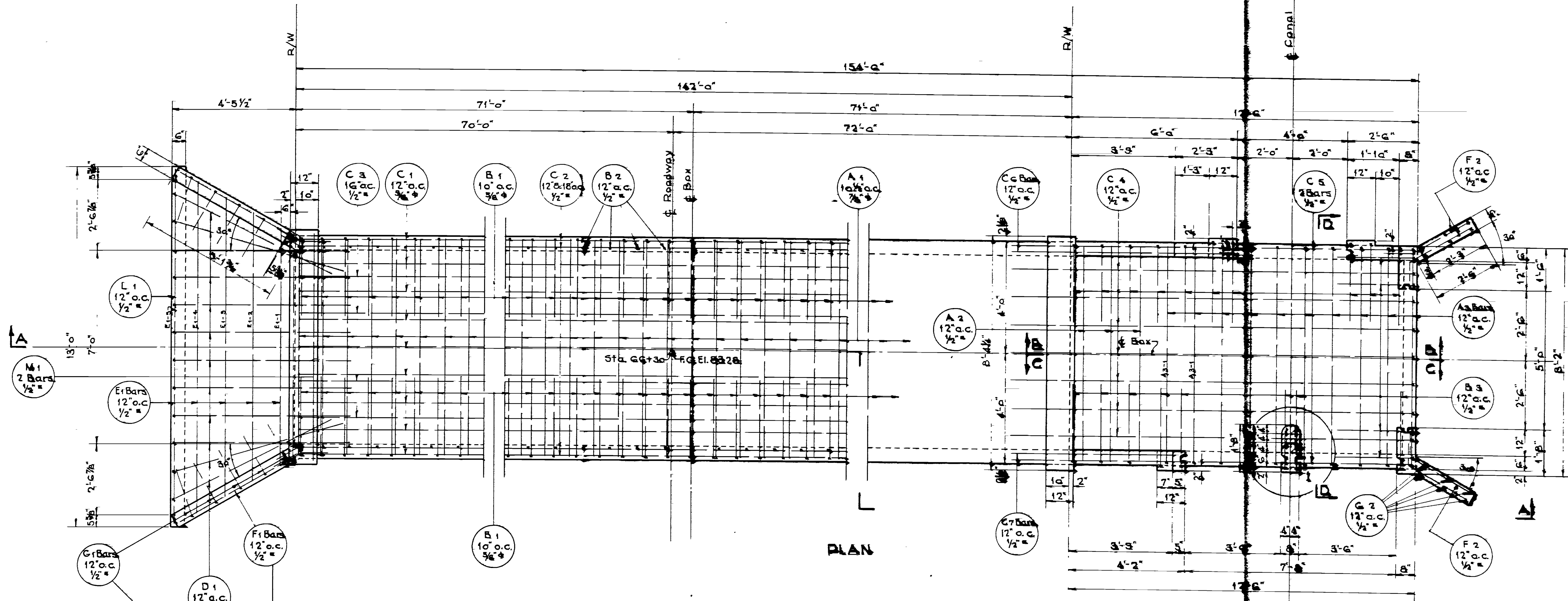


SITUATION PLAN

NO.	REVISIONS	DATE

Sheet 1 of 4 Sheets  
 UTAH STATE ROAD COMMISSION  
 7'0" x 24" CONCRETE BOX  
**CULVERT & DIVERSION**  
 Sta. 67+00 to 67+25  
 South-Central Water Co.  
 Design by: \_\_\_\_\_  
 Checked by: \_\_\_\_\_  
 Date: \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	SECTION	DATE	SCALE
12	UTAH	114A(C)		



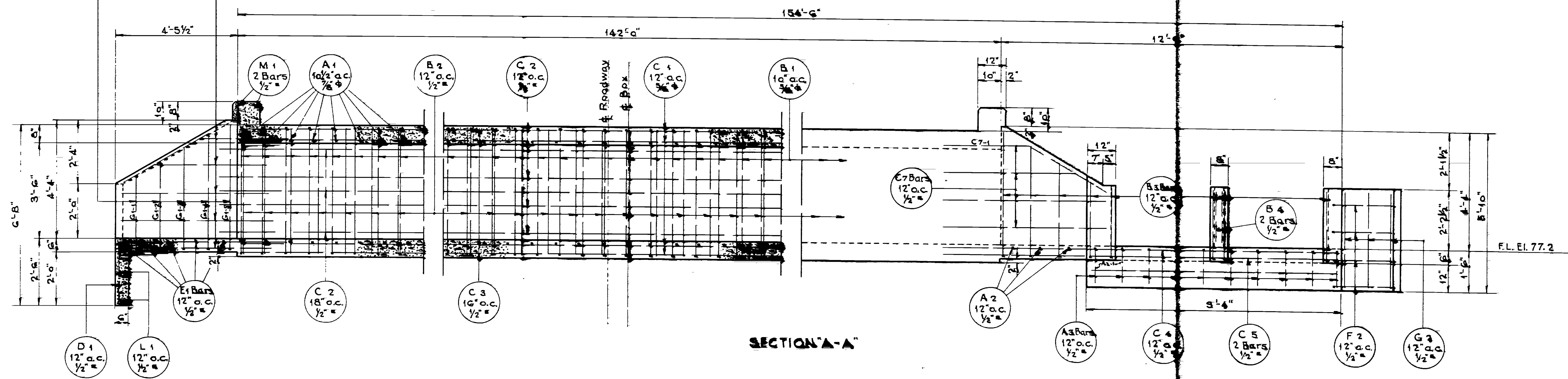
PLAN

**GENERAL NOTES**  
 Materials, Construction and Workmanship shall be in accordance with State Standard Specifications for Road and Bridge Construction, edition of 1933 and Supplements thereto. All Concrete shall be Class "A". Chamfer all exposed edges 1".

**DESIGN DATA**  
 H-15 Loading in accordance with A. S. H. C. Specifications for 1944.  
 $f_c = 1,000 \text{ psi}$   $f_s = 20,000 \text{ psi}$   $n = 10$

**QUANTITIES**  
 Excavation for Structure 32 Cu. Yds.  
 Concrete Class "A" 81.0 Cu. Yds.  
 Reinforcing Steel 17,530 Lbs.

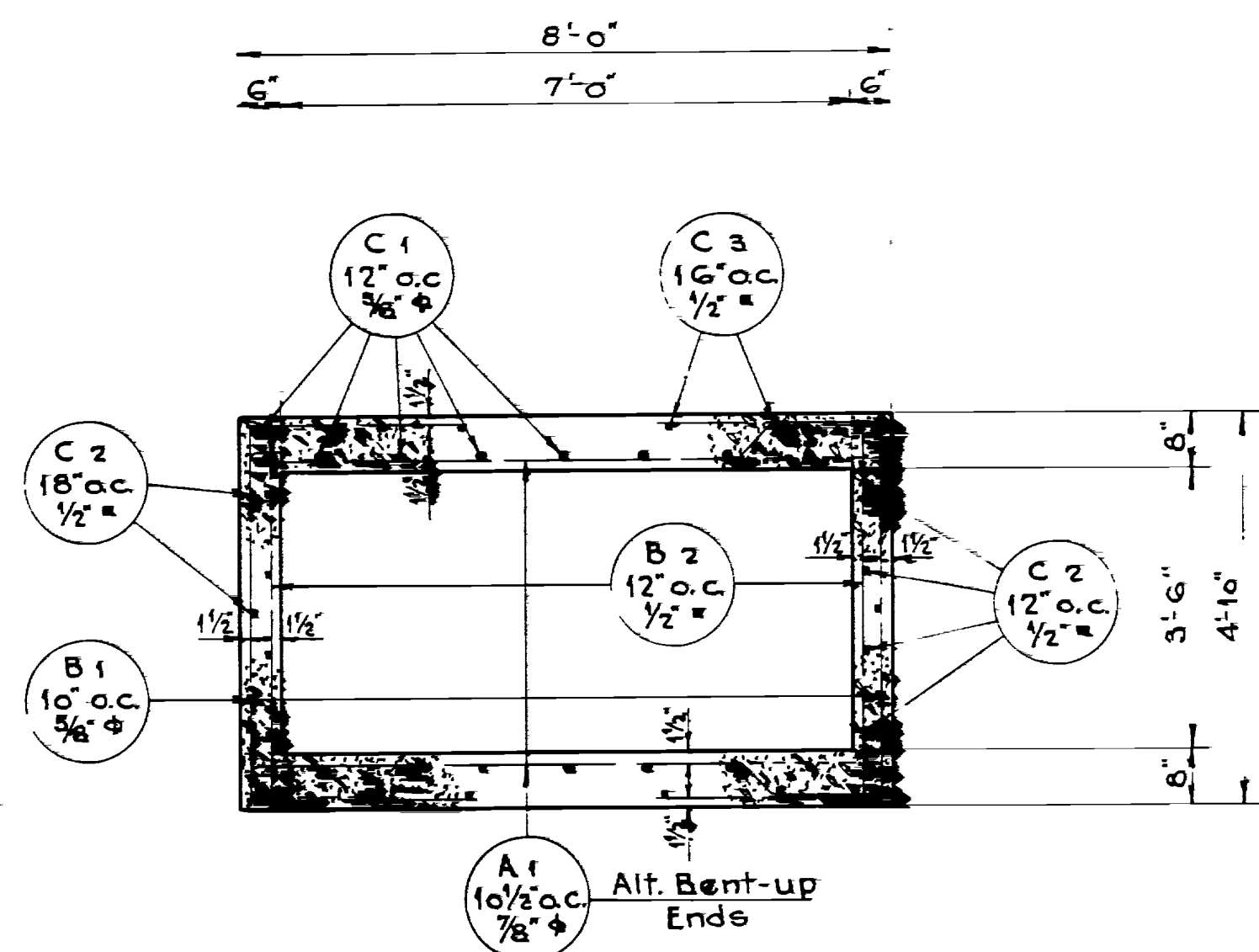
NO.	DATE	REVISIONS



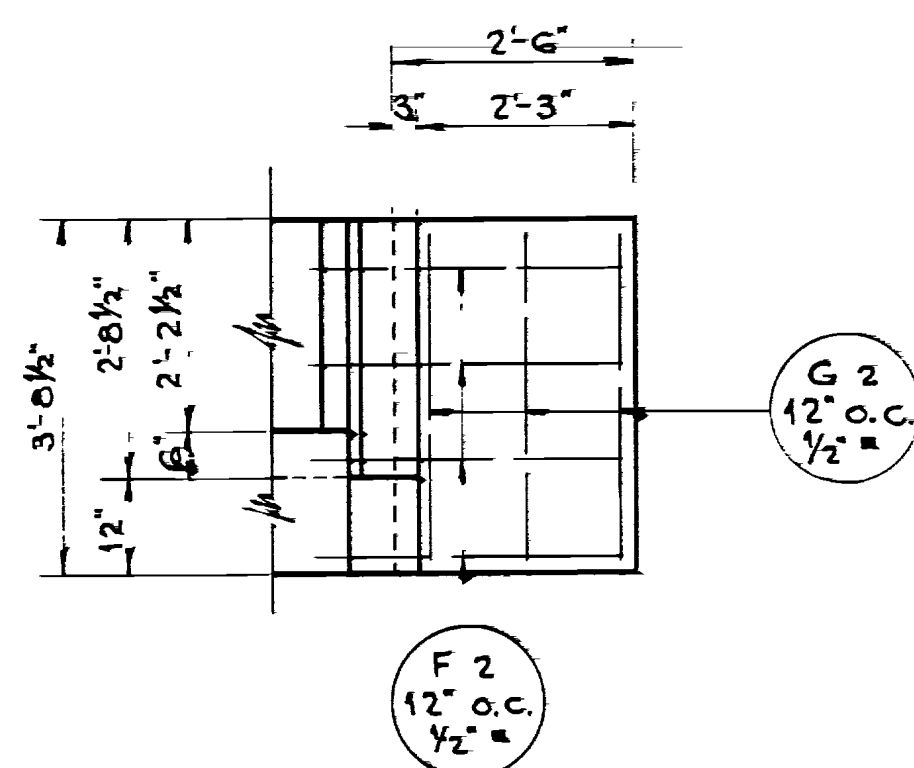
SECTION A-A

SHEET 2 OF 4 SHEETS  
 UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 BRIDGE DEPARTMENT  
**CONCRETE BOX CULVERT & DIVERSION**  
 Sta. 66+30 to 68+20  
 Death Curve - Riverside - Weber Co.  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 SCALE: [Blank]  
 DATE: [Blank]

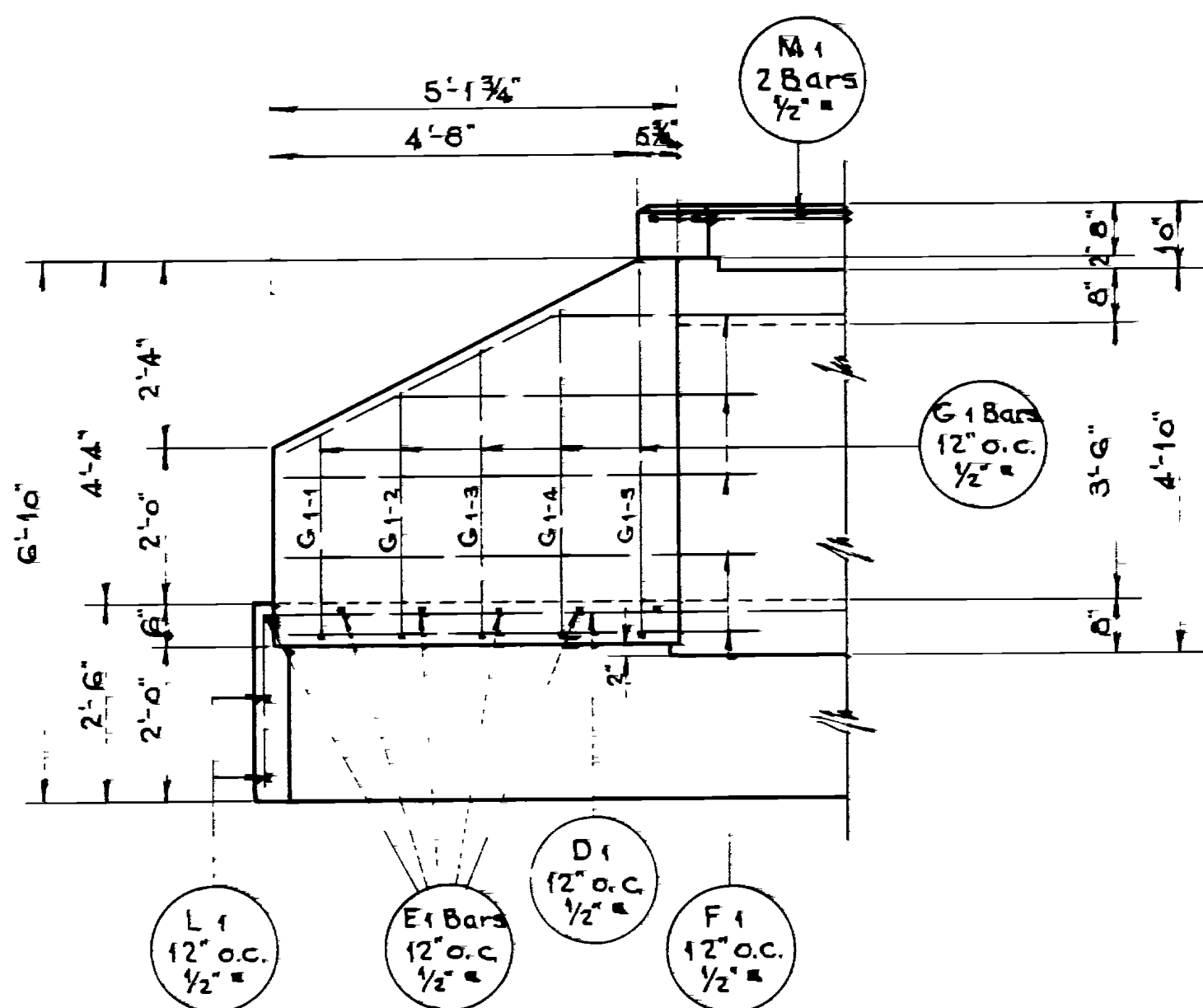
FED. ROAD DIST. NO.	STATE	S.N. R.A. FORM NO.	PROJECT TITLE	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A-48			



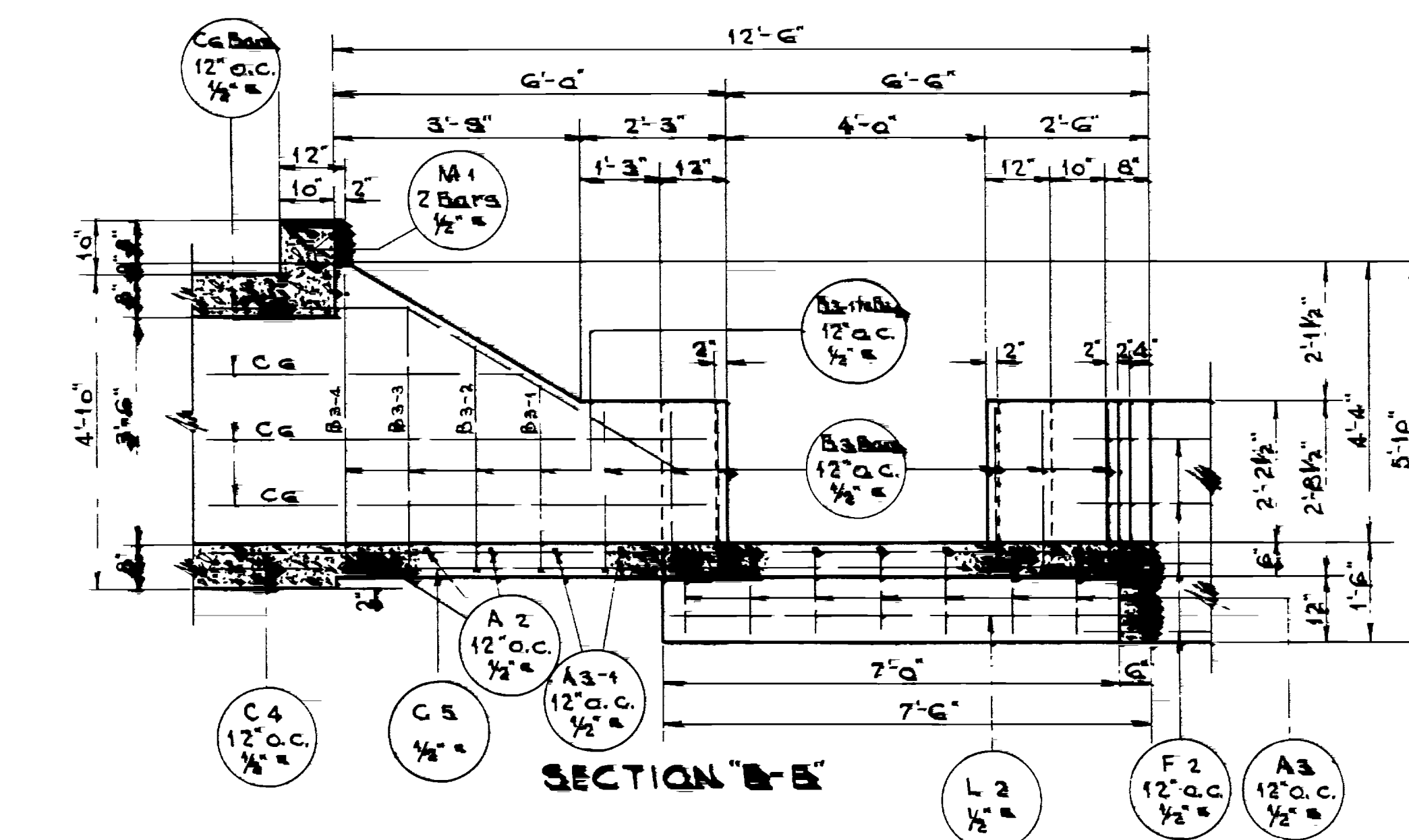
SECTION THRU BOX



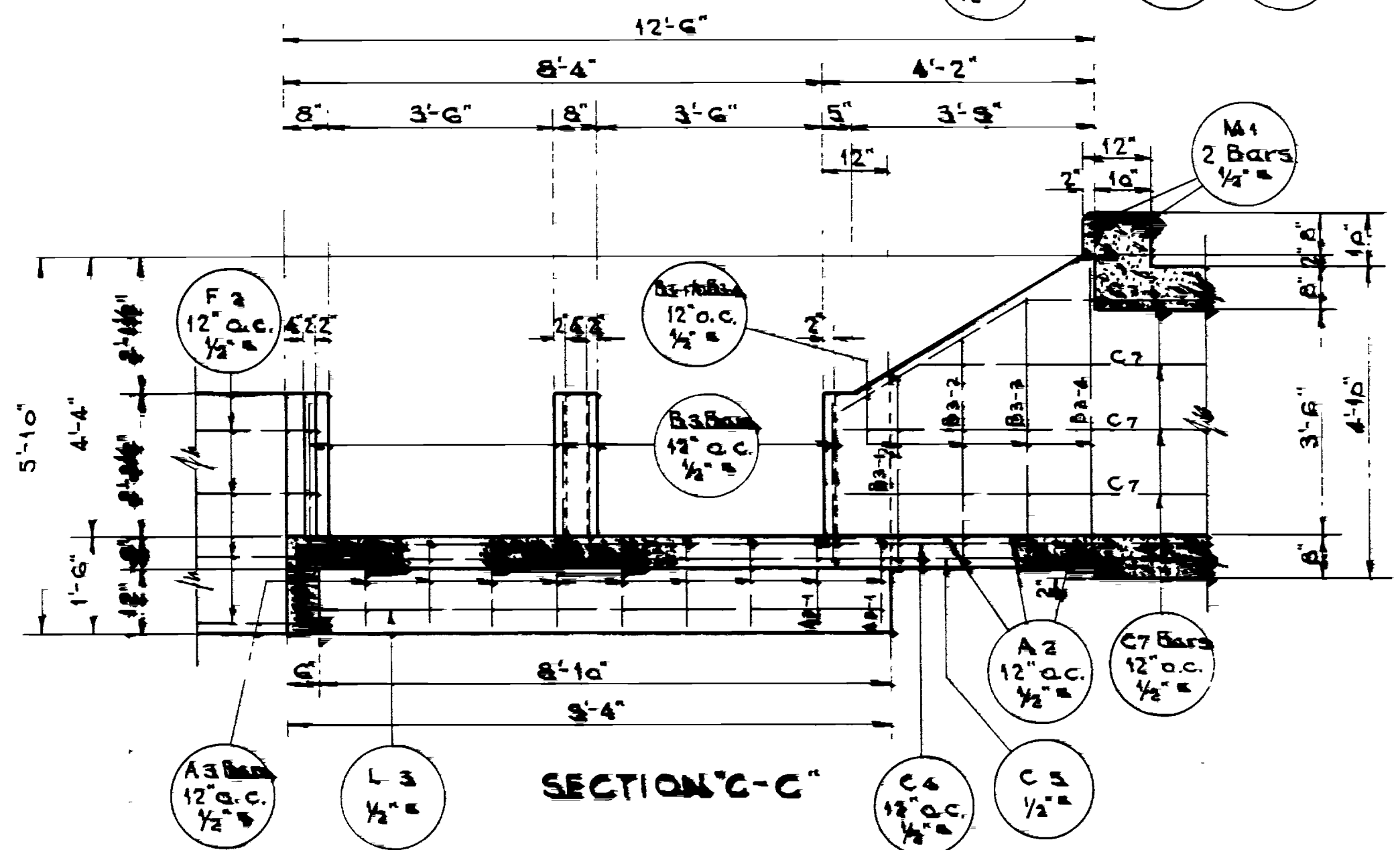
WING WALL 'B' ELEVATION



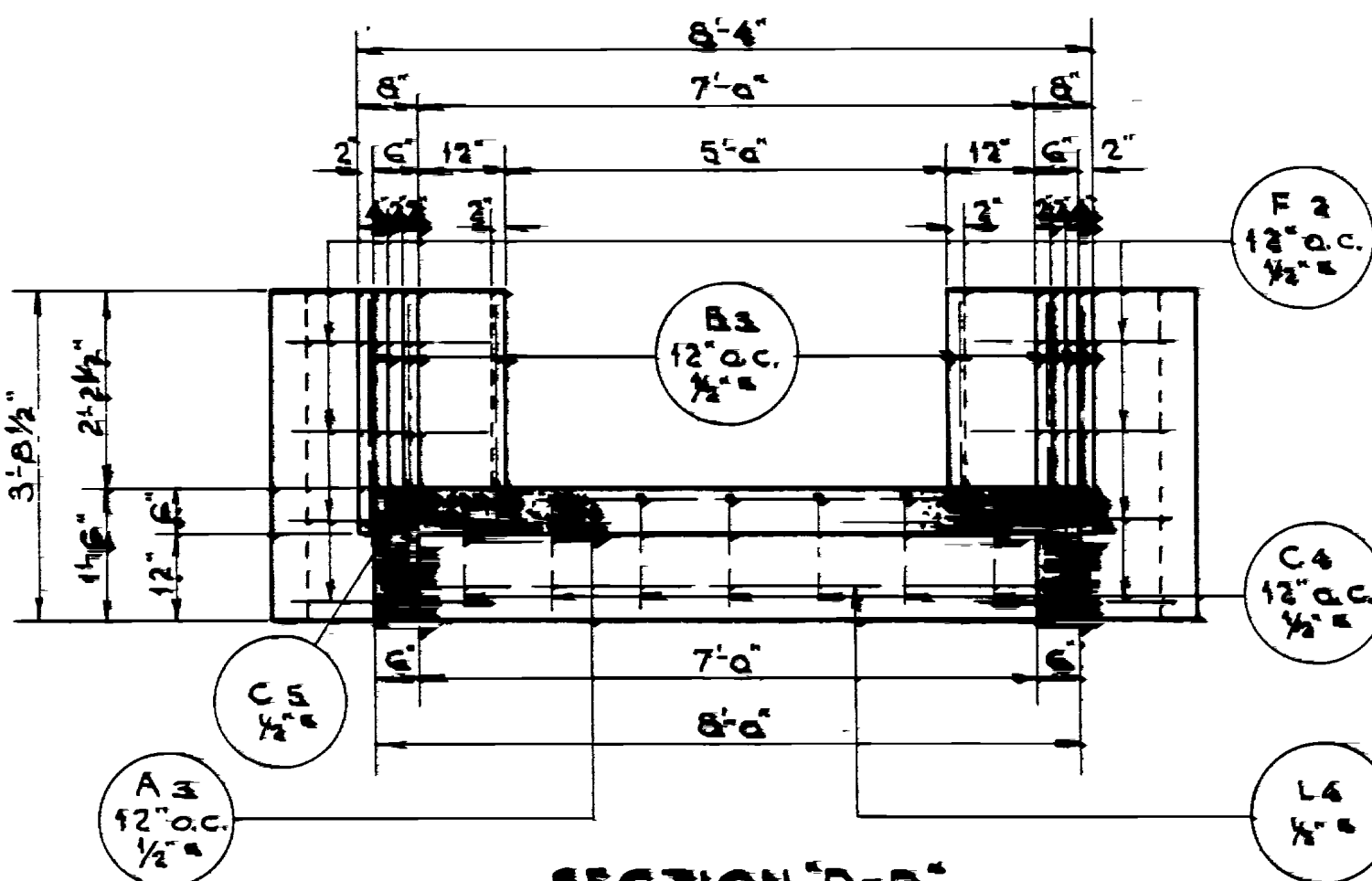
WING WALL 'A' ELEVATION



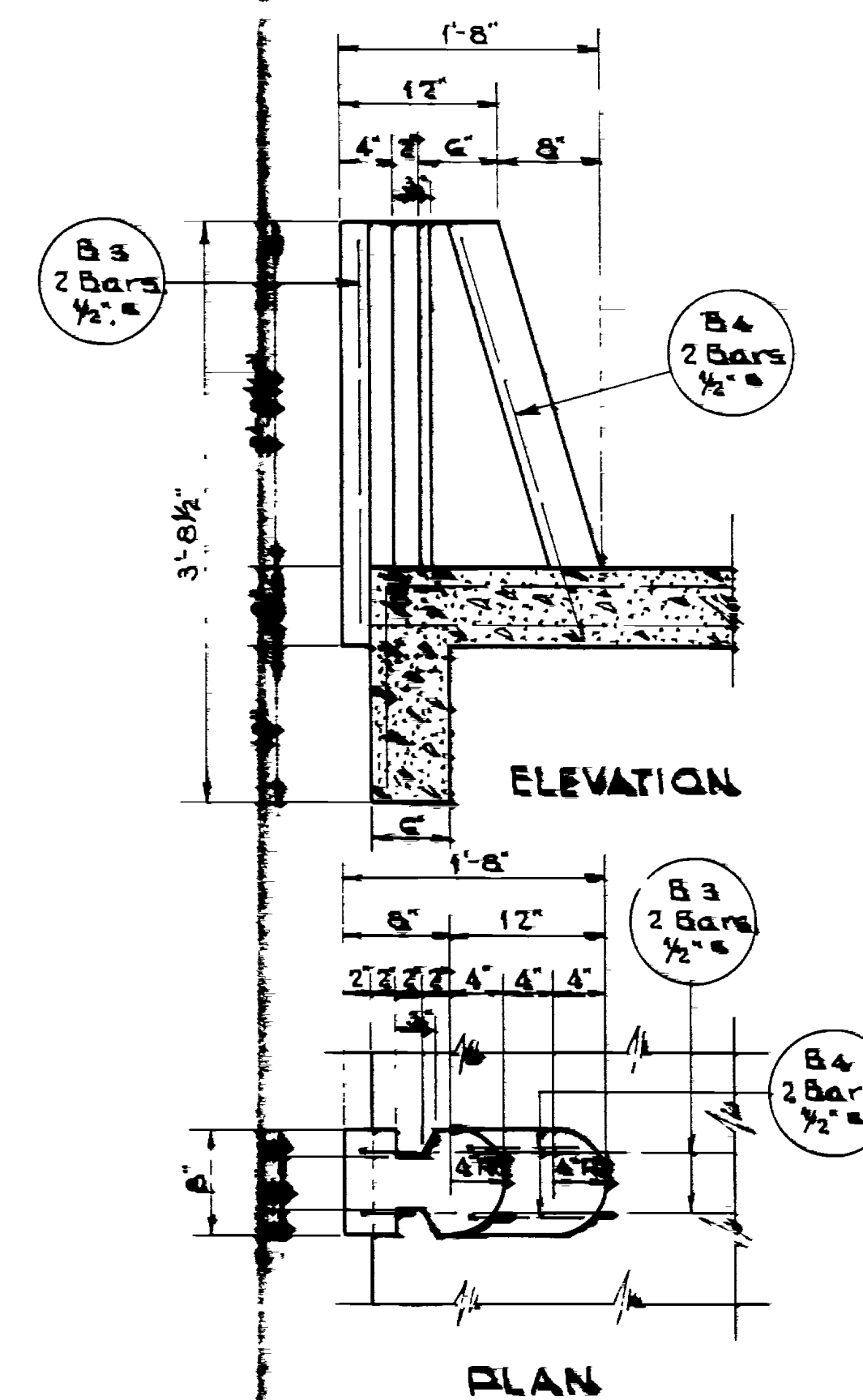
SECTION 'B-B'



SECTION 'C-C'



SECTION 'D-D'



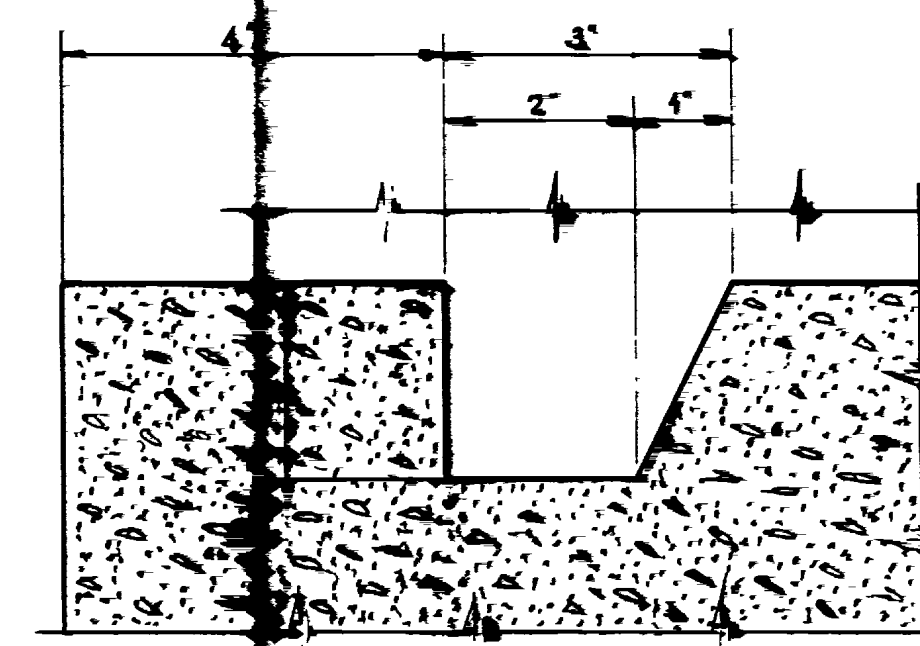
ELEVATION

PLAN

DETAIL 1'

1" = 1'-0"

Note: Flash Boards shall be 2"x12" Douglas Fir. Furnishing and Placing of all Lumber to be included in Unit Price Bid for Concrete Class 'A'.



SECTION THRU FLASH BOARD SLOT  
Half Size

REVISIONS	DATE	BY	APP. BY

Sheet 3 of 4 Sheets

UTAH STATE ROAD COMMISSION	
SALT LAKE CITY, UTAH	
BRIDGE DEPARTMENT	
70x36 CONCRETE BOX	
CULVERT & OVERPASS	
Sta. 65+30 - 65+70	
Death Curve - River - 1/4 Mile	
DESIGNED BY	
CHECKED BY	
DATE	

### REINFORCING STEEL SCHEDULE

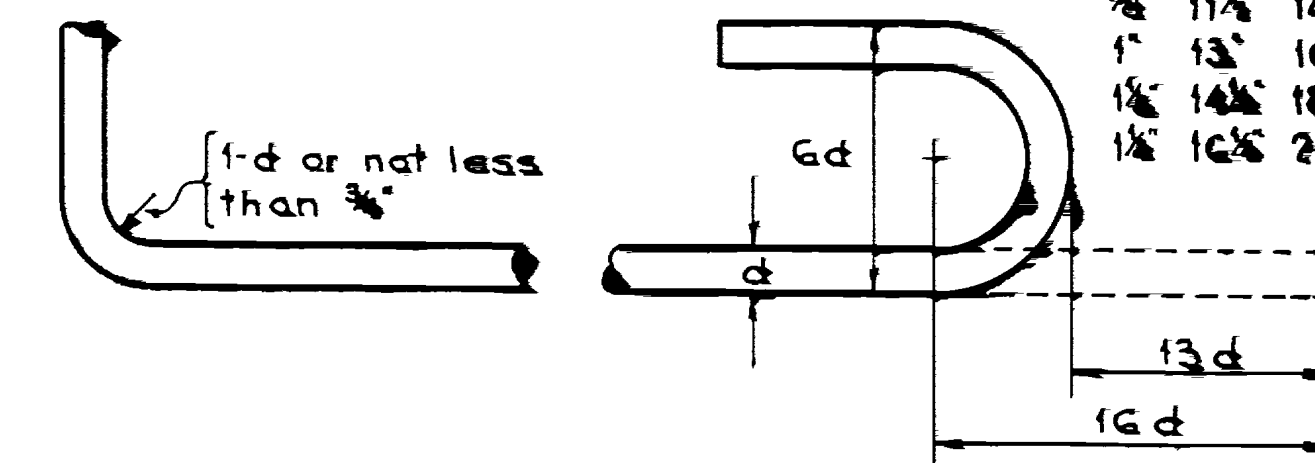
Mark	Location	Size	Length	No. Bars	Total Length	Sketch	0 to 0
A 1	Culvert Slabs	3/4"	9'-10"	32	3205'-8"		7'-9"
A 2	Div. Box Slab	1/2"	7'-9"	3	23'-3"		
A 3	"	1/2"	10'-3"	8	82'-0"		
A 3-1	"	1/2"	9'-0"	2	18'-0"		
B 1	Culvert Sidewalls	3/4"	10'-1"	342	3448'-6"		
B 2	"	1/2"	4'-7"	286	1310'-10"		
B 3	Div. Box Sidewalls	1/2"	4'-2"	14	58'-4"		
B 3-1	"	1/2"	4'-8"	2	8'-4"	a = 2'-10 1/2"	
B 3-2	"	1/2"	5'-3"	2	10'-6"	a = 3'-5 1/2"	
B 3-3	"	1/2"	5'-10"	2	11'-8"	a = 4'-0 1/2"	
B 3-4	"	1/2"	6'-5"	2	12'-10"	a = 4'-7 1/2"	
B 4	Div. Box Post	1/2"	2'-7"	2	5'-2"		
C 1	Culvert Slabs	3/4"	40'-0"	54	2160'-0"		
			28'-3"	18	517'-6"		
C 2	Sidewalls	1/2"	40'-0"	42	1680'-0"		
			30'-1"	14	421'-2"		
C 3	Slabs	1/2"	40'-0"	24	960'-0"		
			28'-9"	8	230'-0"		

### REINFORCING STEEL SCHEDULE

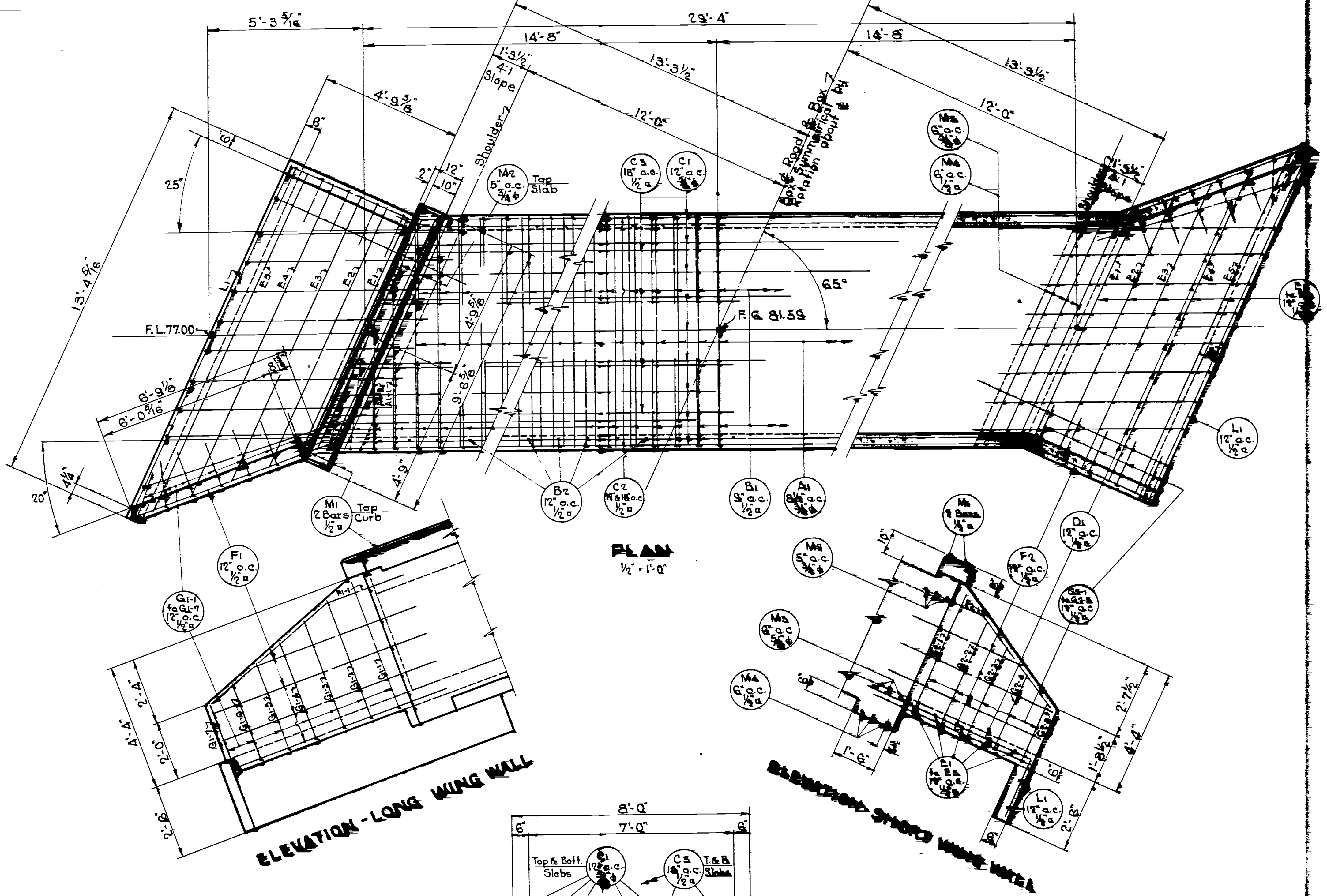
Mark	Location	Size	Length	No. Bars	Total Length	Sketch	0 to 0
C 4	Div. Box Slab	1/2"	15'-3"	7	106'-3"		
C 5	"	1/2"	14'-6"	2	29'-6"		
C 6	" Sidewall	1/2"	7'-9"	3	23'-3"		
C 6-1	"	1/2"	5'-0"	1	5'-0"		
C 7	"	1/2"	6'-0"	3	18'-0"		
C 7-1	"	1/2"	5'-0"	1	5'-0"		
D 1	Approach Apron	1/2"	8'-6"	12	102'-0"		
E 1-1	"	1/2"	8'-6"	1	8'-6"		
E 1-2	"	1/2"	9'-7"	1	9'-7"		
E 1-3	"	1/2"	10'-8"	1	10'-8"		
E 1-4	"	1/2"	11'-10"	1	11'-10"		
E 1-5	"	1/2"	12'-9"	1	12'-9"		
F 1	Appr. Wing Walls	1/2"	6'-2"	10	61'-8"		
F 2	Div. Box Wing Walls	1/2"	3'-6"	16	56'-0"		
G 1-1	Appr. Wing Walls	1/2"	4'-3"	2	8'-6"		
G 1-2	"	1/2"	4'-9"	2	9'-6"		
G 1-3	"	1/2"	5'-3"	2	10'-6"		
G 1-4	"	1/2"	5'-9"	2	11'-6"		
G 1-5	"	1/2"	6'-3"	2	12'-6"		
G 2	Div. Box	1/2"	3'-5"	12	41'-0"		
L 1	Appr. Curtain Wall	1/2"	12'-3"	2	25'-0"		
L 2	Div. Box	1/2"	7'-3"	1	7'-3"		
L 3	"	1/2"	9'-1"	1	9'-1"		
L 4	"	1/2"	7'-9"	1	7'-9"		
M 1	"	1/2"	8'-1"	4	32'-4"		
					3,205'-8" of Bars @ 2,000 psi = 6,552.4'		
					9,125'-0" @ 2,000 psi = 2,300.4'		
					5,472'-0" @ 2,000 psi = 4,231.2'		
							17, 352.0'

REVISIONS  
DATE BY

d	13d	16d
3/8"	5"	6"
1/2"	6"	8"
5/8"	8"	10"
3/4"	9"	12"
7/8"	11 1/2"	14"
1"	13"	16"
1 1/8"	14 1/2"	18"
1 1/4"	16 1/2"	20"



When hooks are called for the lengths given in the Total Length column include allowance for hooks as shown in above detail. Lengths given in sketches are center to center of bend points. Bar diagrams are not drawn to scale and those bars not detailed are either straight or field bent.



NOTE: For Location of Box Culvert see Drg. No. E-766, Sheet 1.

**DESIGN DATA**

H-15 Loading in accordance with the A.S.H.O. Specifications of 1941.  
 $f_c = 1000 \text{ psi}$   $f_s = 20,000 \text{ psi}$   $n = 10$

**GENERAL NOTES**

Materials, Construction and Workmanship shall be in accordance with the State Standard Specifications for Road and Bridge Construction, edition of 1939, and Supplements thereto. All exposed edges to be Chamfered 1".

Item	LOCATION	SIZE	LATH	No. Bars	TOTAL LENGTH	SKETCH	Q. to Q.
A1	Slabs	$\frac{3}{4}$ "	5'-7"	74	709'-7"		7'-9"
A1-1	"	$\frac{3}{4}$ "	5'-9"	4	23'-0"		5'-6"
A1-2	"	$\frac{3}{4}$ "	4'-6"	4	18'-0"		4'-5"
B1	Sidewalls	$\frac{3}{4}$ "	10'-1"	80	800'-0"		7'-9"
B2	"	$\frac{3}{4}$ "	4'-7"	60	275'-0"		7'-9"
C1	Slabs	$\frac{3}{4}$ "	29'-1"	18	523'-6"		7'-2"
C2	Sidewalls	$\frac{3}{4}$ "	3'-6"	14	443'-4"		7'-2"
C3	Slabs	$\frac{3}{4}$ "	29'-1"	8	233'-0"		7'-2"
D1	Aprons	$\frac{3}{4}$ "	9'-4"	20	188'-0"		7'-2"
E1	"	$\frac{3}{4}$ "	8'-8"	2	17'-4"		7'-2"
E2	"	$\frac{3}{4}$ "	9'-8"	2	19'-4"		7'-2"
E3	"	$\frac{3}{4}$ "	10'-8"	2	21'-4"		7'-2"
E4	"	$\frac{3}{4}$ "	11'-8"	2	23'-4"		7'-2"
E5	"	$\frac{3}{4}$ "	17'-8"	2	35'-4"		7'-2"
F1	Long Wing Walls	$\frac{3}{4}$ "	7'-8"	8	62'-0"		7'-2"
F1-1	"	$\frac{3}{4}$ "	5'-6"	2	11'-0"		7'-2"
F2	Short	$\frac{3}{4}$ "	5'-9"	9	48'-0"		7'-2"
F2-1	"	$\frac{3}{4}$ "	4'-3"	2	8'-6"		7'-2"
G1-1	Long	$\frac{3}{4}$ "	6'-2"	2	12'-4"		7'-2"
G1-2	"	$\frac{3}{4}$ "	5'-9"	2	11'-8"		7'-2"
G1-3	"	$\frac{3}{4}$ "	5'-4"	2	10'-8"		7'-2"
G1-4	"	$\frac{3}{4}$ "	5'-0"	2	10'-0"		7'-2"
G1-5	"	$\frac{3}{4}$ "	4'-7"	2	9'-2"		7'-2"
G1-6	"	$\frac{3}{4}$ "	4'-2"	2	8'-4"		7'-2"
G1-7	"	$\frac{3}{4}$ "	3'-10"	2	7'-8"		7'-2"
G1-8	"	$\frac{3}{4}$ "	6'-1"	2	12'-2"		7'-2"
G1-9	"	$\frac{3}{4}$ "	5'-0"	2	11'-0"		7'-2"
G1-10	"	$\frac{3}{4}$ "	4'-11"	2	9'-10"		7'-2"
G1-11	"	$\frac{3}{4}$ "	4'-4"	2	8'-8"		7'-2"
G1-12	"	$\frac{3}{4}$ "	3'-9"	2	7'-8"		7'-2"
L1	Curtain Walls	$\frac{3}{4}$ "	13'-1"	4	52'-4"		7'-2"
M1	Curbs	$\frac{3}{4}$ "	9'-3"	4	37'-0"		7'-2"
M2	Top Slab Ends	$\frac{3}{4}$ "	8'-6"	8	51'-0"		7'-2"
M3	Bottom	$\frac{3}{4}$ "	8'-6"	8	51'-0"		7'-2"
M4	"	$\frac{3}{4}$ "	8'-6"	6	51'-0"		7'-2"

801'-2" of  $\frac{3}{4}$ " Bars @ 1.502' = 1203.35'  
 574'-6" of  $\frac{3}{4}$ " " @ 1.043' = 599.20'  
 2437'-8" of  $\frac{3}{4}$ " " @ 0.857' = 2072.01'  
 Total = 3874.56'

**QUANTITIES**

Excavation for Structure	33 Cu. Yd
Concrete Class A	21 Cu. Yd
Reinforcing Steel	3874.56 Lbs.

UYAH STATE ROAD COMMISSION  
 BATTLE MOUNT, UTAH  
 COUNTY ENGINEER  
**PERCY G. BOY**  
 CIVIL ENGINEER  
 License No. 1285  
 L. of Sit. 05-20-65 IN PARTIALLY  
 Donahue, Curran, & Associates, Salt Lake City, Utah  
 REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

NO.	DATE	BY	REVISION

SECTION 13, T.5N., R.2W., S.L.B. & M.

IN ROY CITY

SCALE 1"=100'

TAXING UNIT: 41

SEE PAGE 103-2

BERWICK VILLAGE PUD

SEE PAGES 305 TO 307

RGA LC  
081040026

HILLSITE SUB.

5100 SOUTH ST.

SEE PAGE 105

JORGENSEN FAMILY  
HOLDING, LLC  
081040024

JESSIE ANNA  
BAIRD, ETAL  
081040021

PARKINSON  
INVESTMENTS LLC  
081040038

SILVER CREEK CENTER DEVELOPMENT AMENDED

SEE PAGE 377

RONALD KIM KELLER  
& CINDY T KELLER  
081040017

VORWALLER INVESTMENTS, LLC  
081040016

PHILLIPS 66 ROY LLC  
081040014

(OLD STATE ROAD)

SEE  
081140027

GOLDEN SPIKE ELKS LODGE  
NO 719 BPOE  
(081040012)

ROYAL VIEW  
CENTER CONDO  
SEE PG 399

QUESTAR GAS CO  
081040022

ALAN PARSONS  
(081040015)

ROY CITY CORP  
(081040034)

CITTE PROPERTIES LLC  
081040005

DAVIS & WEBER COUNTIES CANAL  
CITI PROP. LLC  
081040007

WEBER COUNTY RO  
081040006

WEBER COUNTY R=819.02'  
L=574.3'

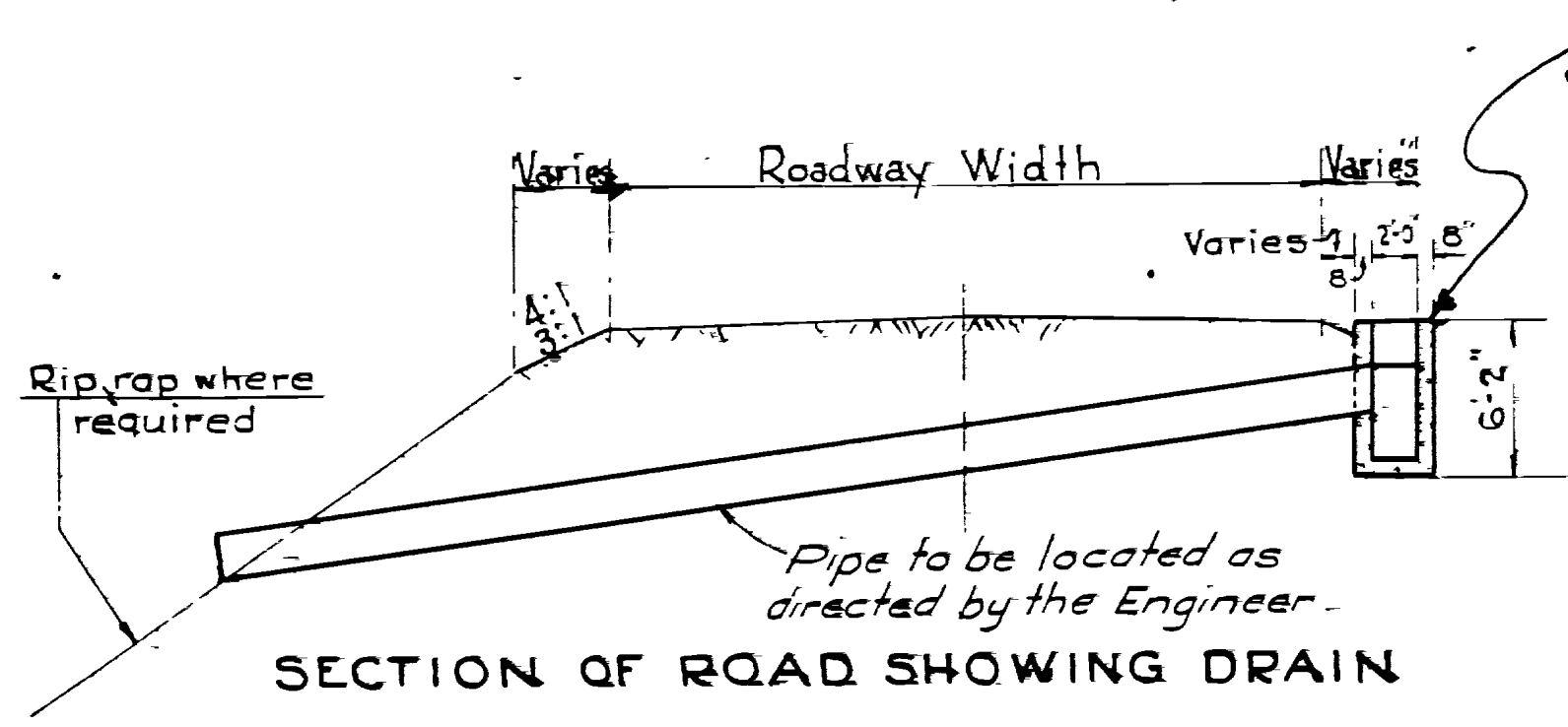
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PAGE  
106

SEE PAGE 114

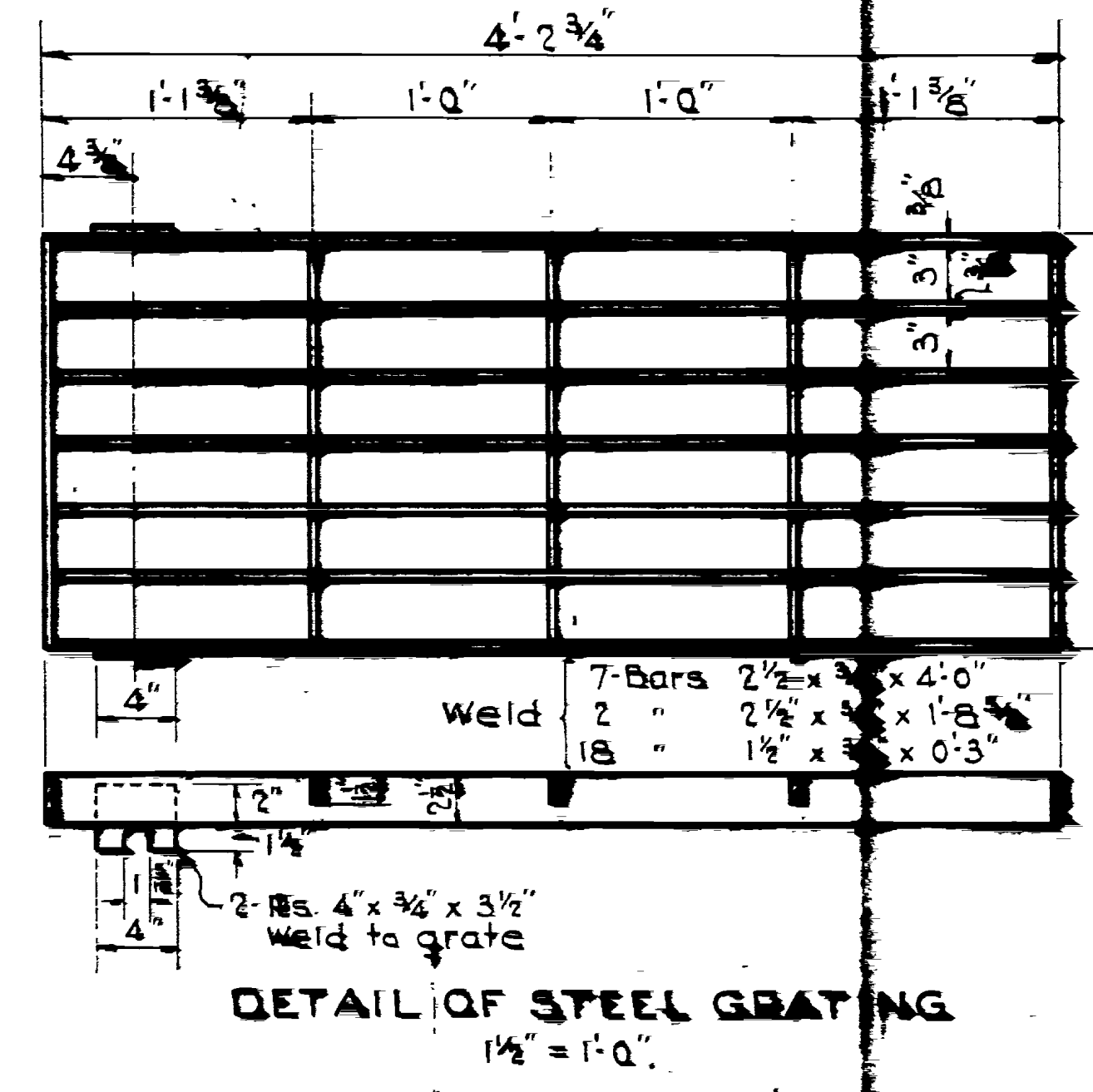
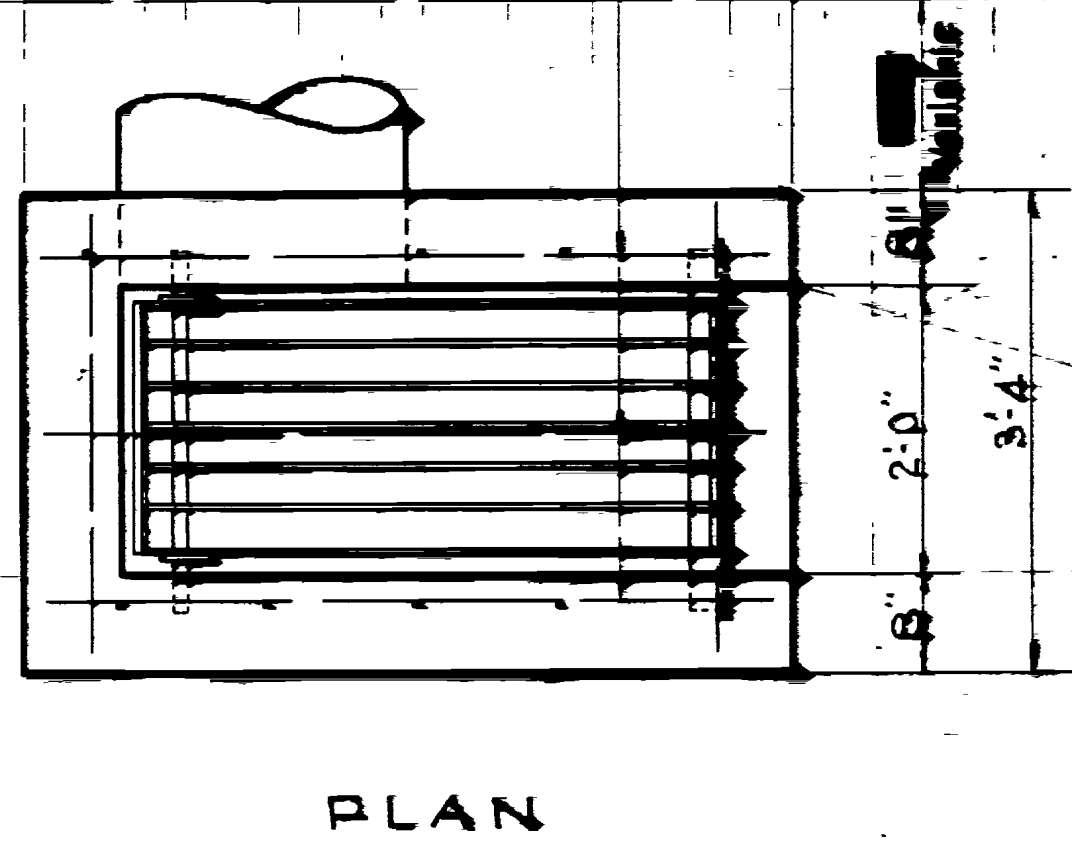
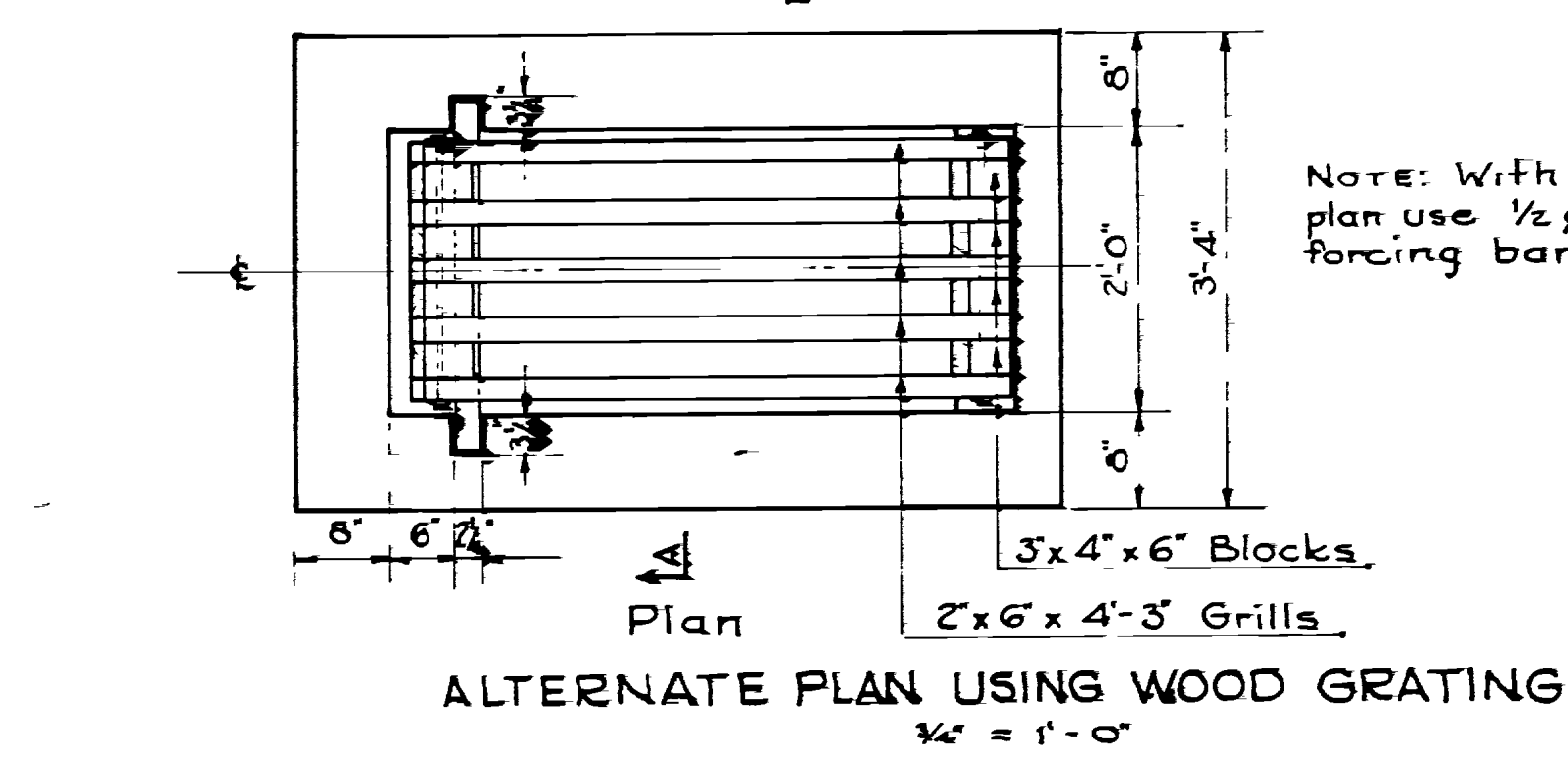
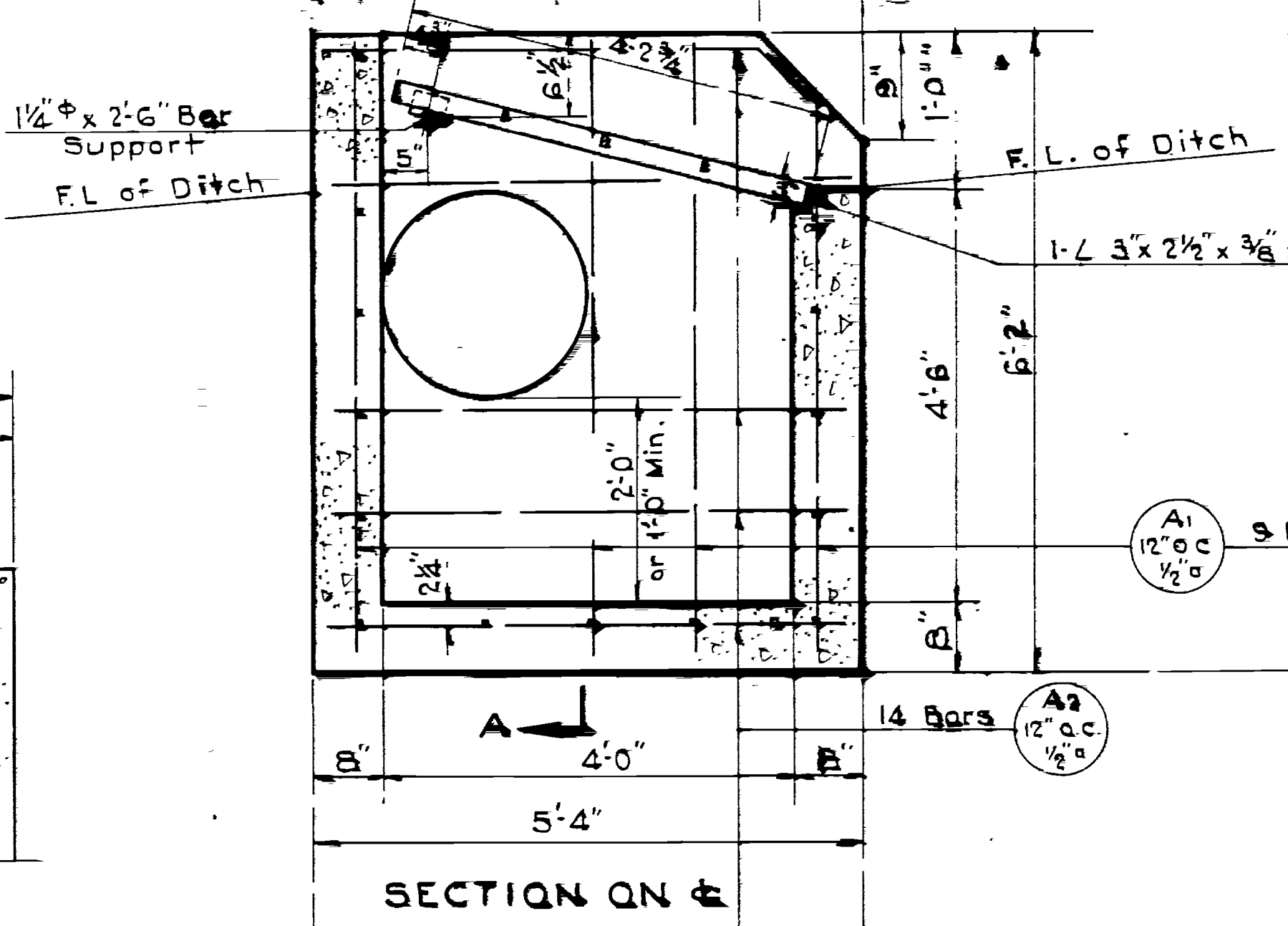
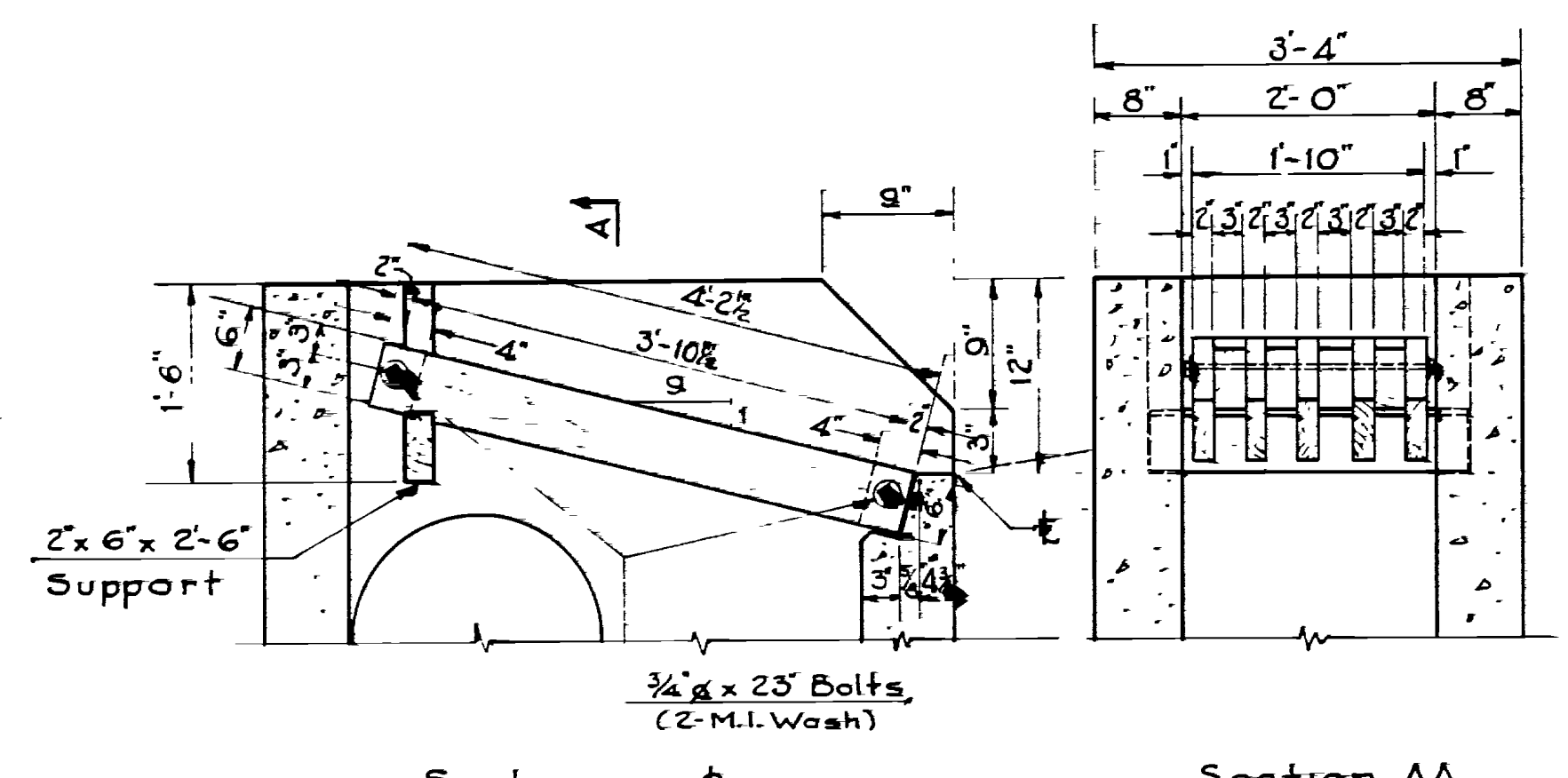
SEE  
BOOK  
9  
PAGE  
1

5200  
SO.

WEBER Co 5/27/05



Elevation of top of Catch Basin to be determined by Engineer in field.  
 NOTE: For Size, Type and Position of Pipe see Roadway Plans.



REINFORCING STEEL SCHEDULE						
MARK	LOCATION	WT.	LGTH.	No. BARS	TOTAL LENGTH	SKETCH
A1	Catch Basin	1/2"	5'-10"	9	52'-6"	
A2	"	1/2"	5'-0"	12	60'-0"	
A3	"	1/2"	3'-0"	14	42'-0"	
154'-6" of 1/2" @ .85 = 131.32 lbs						

LOCATION AND PROJECTS			
PROJECT No.	STATION	COUNTY	APPROVED BY
F.A.P. 65-C	35+	Wasatch	July 1, 1933
F.A.P. 65-C	41+	"	"
F.A.P. 65-C	47+	"	"
F.A.P. 65-C	56+	"	"
F.L.H. 98(1)	373+	Beaver	Dec. 10, 1933
F.L.H. 98(1)	380+	"	"
F.A.P. 65-F(1)	73+00	Wasatch	Nov. 17, 1933
"	82+00	"	"
"	102+00	Wasatch	"
"	120+00	"	"
"	161+75	"	"
"	197+00	"	"
F.A.P. 65-G	200+00	"	March 20
"	230+50	"	"
"	315+50	"	"
"	326+	"	"
"	364+00	Utah	"
F.A.P. 65-H	112+00	Wasatch	"
"	113+00	"	"
"	114+00	"	"
"	115+00	"	"
"	116+00	"	"
"	117+00	"	"
"	118+00	"	"
"	119+00	"	"
"	120+00	"	"
"	121+00	"	"
"	122+00	"	"
"	123+00	"	"
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"	197+00	"	"
"	198+00	"	"
"	199+00	"	"
"	200+00	"	"

LOCATION AND PROJECTS USING WOOD GRATING			
Project No.	Station	County	Approved by PRA
AW (PCE) FAP-218(1)	LE 1-475	DAVIS	
	RTALY 361.00		
	RTALY 431.00		
	RTALY 441.00		
	RTALY 451.00		
	RTALY 461.00		
	RTALY 471.00		
	RTALY 481.00		
	RTALY 491.00		
	RTALY 501.00		
	RTALY 511.00		
	RTALY 521.00		
	RTALY 531.00		
	RTALY 541.00		
	RTALY 551.00		
	RTALY 561.00		
	RTALY 571.00		
	RTALY 581.00		
	RTALY 591.00		
	RTALY 601.00		
	RTALY 611.00		
	RTALY 621.00		
	RTALY 631.00		
	RTALY 641.00		
	RTALY 651.00		
	RTALY 661.00		
	RTALY 671.00		
	RTALY 681.00		
	RTALY 691.00		
	RTALY 701.00		
	RTALY 711.00		
	RTALY 721.00		
	RTALY 731.00		
	RTALY 741.00		
	RTALY 751.00		
	RTALY 761.00		
	RTALY 771.00		
	RTALY 781.00		
	RTALY 791.00		
	RTALY 801.00		
	RTALY 811.00		
	RTALY 821.00		
	RTALY 831.00		
	RTALY 841.00		
	RTALY 851.00		
	RTALY 861.00		
	RTALY 871.00		
	RTALY 881.00		
	RTALY 891.00		
	RTALY 901.00		
	RTALY 911.00		
	RTALY 921.00		
	RTALY 931.00		
	RTALY 941.00		
	RTALY 951.00		
	RTALY 961.00		
	RTALY 971.00		
	RTALY 981.00		
	RTALY 991.00		
	RTALY 1001.00		

**GENERAL NOTES**  
 For Materials and Workmanship see State Standard Specifications for Road and Bridge Construction, 1933 edition.  
 All exposed edges to be chamfered 1" unless otherwise noted.  
 Lumber, when used, to be dense select structural grade Calif. Redwood.

**ALTERNATE PLAN QUANTITIES**

Structural Excav.	7 cuyd
Concrete - Class 'A'	2.3 cuyd
Reinforcing Steel	103 lbs.
Lumber (net)	27.8 B.M.
Hardware	7 lbs.

**QUANTITIES**

Structural Excav.	7 Cu. Yds.
Concrete - Class 'A'	2.3 "
Reinforcing Steel	131 lbs.
Structural Steel	145 "

UTAH STATE ROAD BUREAU  
 STANDARD  
 CATCH BASIN  
 CONC. PIPE

Note: As constructed shown in red





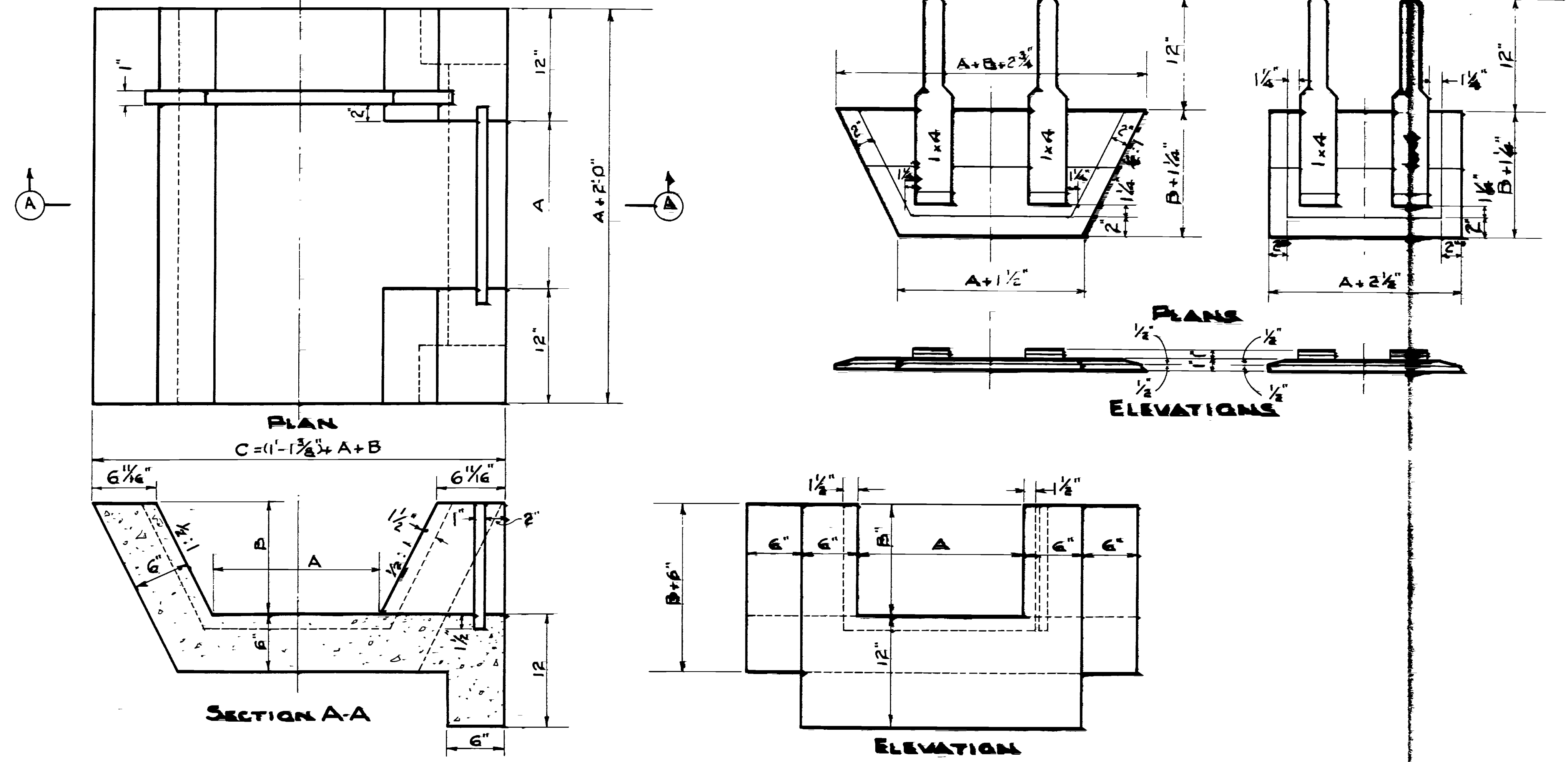
### GENERAL NOTES

Materials & Workmanship shall be in accordance with State Standard Specifications for Road & Bridge Construction, edition of 1939.

A & B shall be within limits of 9" to 2'-6"

Cost of wooden headgates shall be included in the unit bid price of the concrete.

Concrete shall be Class "A"



REVISIONS	NO.	DATE	BY

LINE	A	B	C	Conc. Ques	Excav.
1	12"	12"	3'-1 1/2"	.27 cu yd.	.6 cu yd.
2	12"	15"	3'-4 3/8"	.30 cu yd.	.6 cu yd.
3	18"	18"	4'-1 3/8"	.4 Cu. Yd.	.8 Cu. Yd.
4	27"	18"	5'-10 3/8"	.7 Cu. Yd.	1 Cu. Yd.
5	15"	12"	3'-4 3/8"	.29 Cu. Yd.	.6 Cu. Yd.
6	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
7	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
8	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
9	12"	12"	3'-1 3/8"	.27 Cu. Yds.	.6 Cu. Yds.
10	24"	24" Deep	18" Walls	.59 Cu. Yd.	1.1
11	24"	24" Deep	18" Walls	1.00 Cu. Yd.	1.1
12	24"	41" Deep	18" Walls	.92 Cu. Yd.	1.1
13	24"	24" Deep	18" Walls	1.00 Cu. Yd.	1.1
14	24"	24" Deep	18" Walls	.70 Cu. Yd.	1.1
15	24"	24" Deep	18" Walls	.70 Cu. Yd.	1.1
16	24"	24" Deep	18" Walls	.70 Cu. Yd.	1.1
17	24"	18" Deep	18" Walls	.70 Cu. Yd.	1.1
18	15"	15" Deep	18" Walls	.55 Cu. Yd.	1.1

LINE	A	B	C	Conc. Ques	Excav.

LINE	A	B	C	Conc. Ques	Excav.

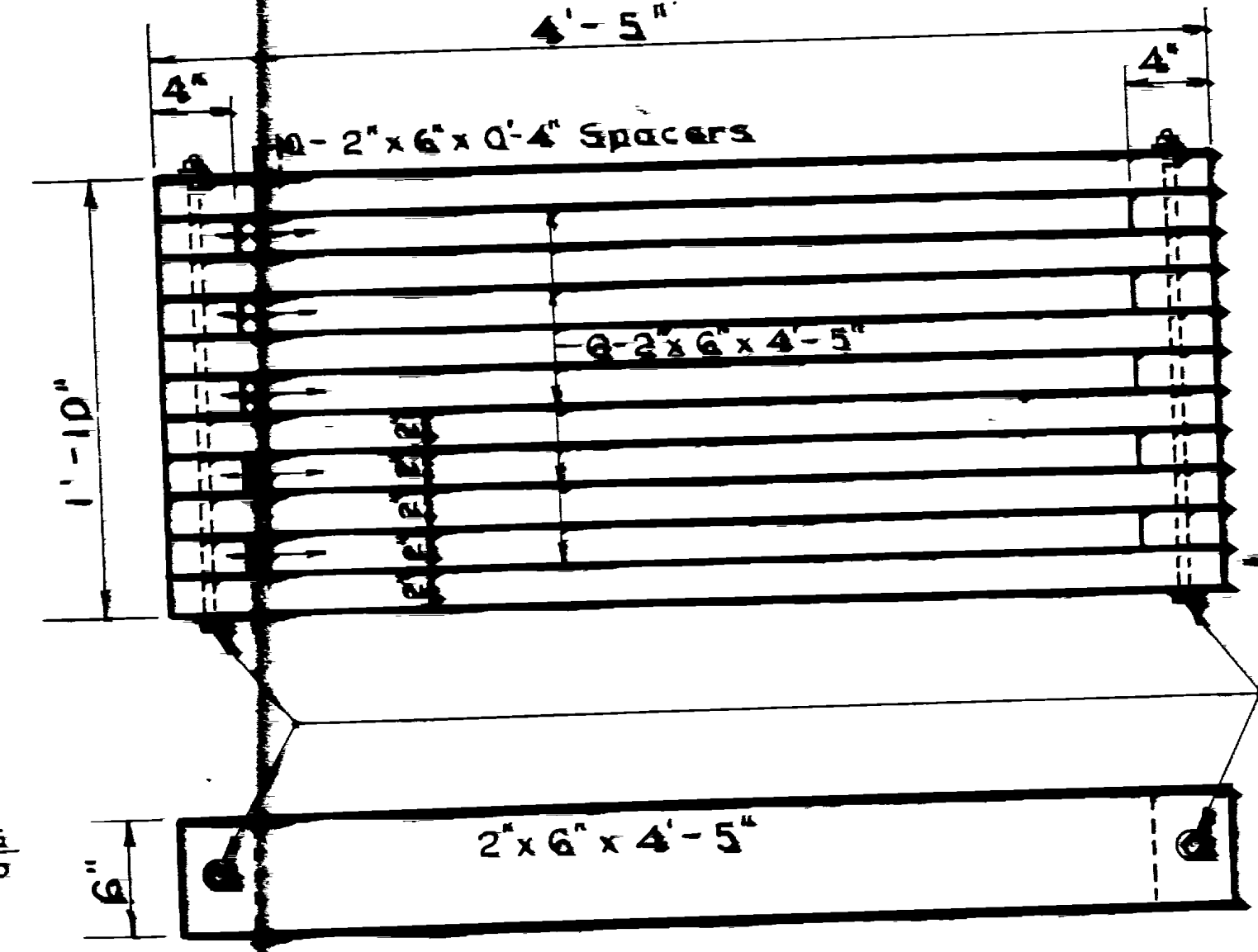
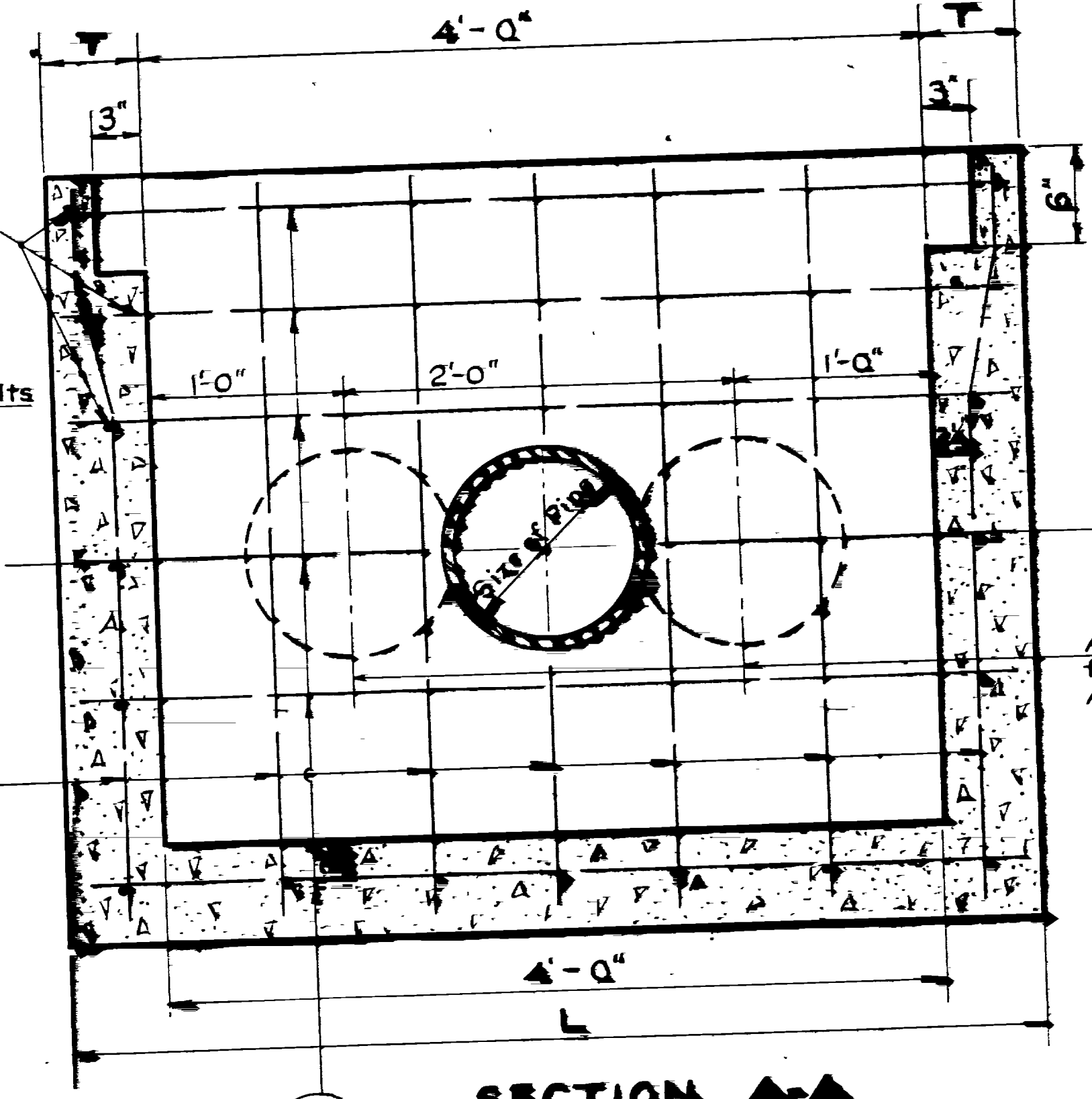
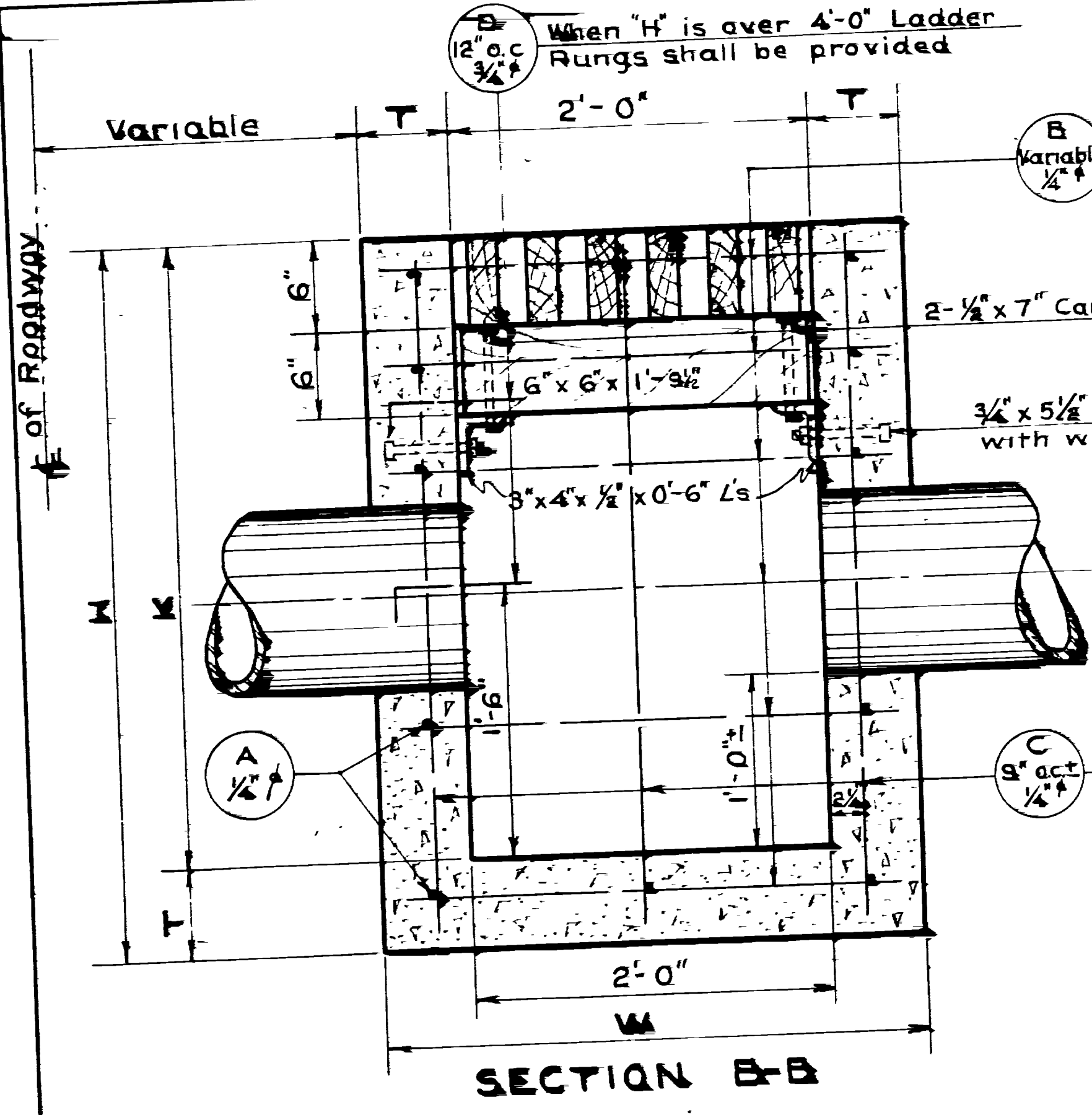
LINE	A	B	C	Conc. Ques	Excav.

LINE	STA.	PROJECT NOS.

UTAH STATE ROAD COMMISSION  
SALT LAKE CITY, UTAH

**STANDARD HEADGATE & OUTLET**

DESIGNED BY: [ ] SCALE: 1/4" = 1'-0"  
CHECKED BY: [ ]  
CONTRACT NO.: [ ]  
PROJECT NO.: [ ]  
DATE: [ ]



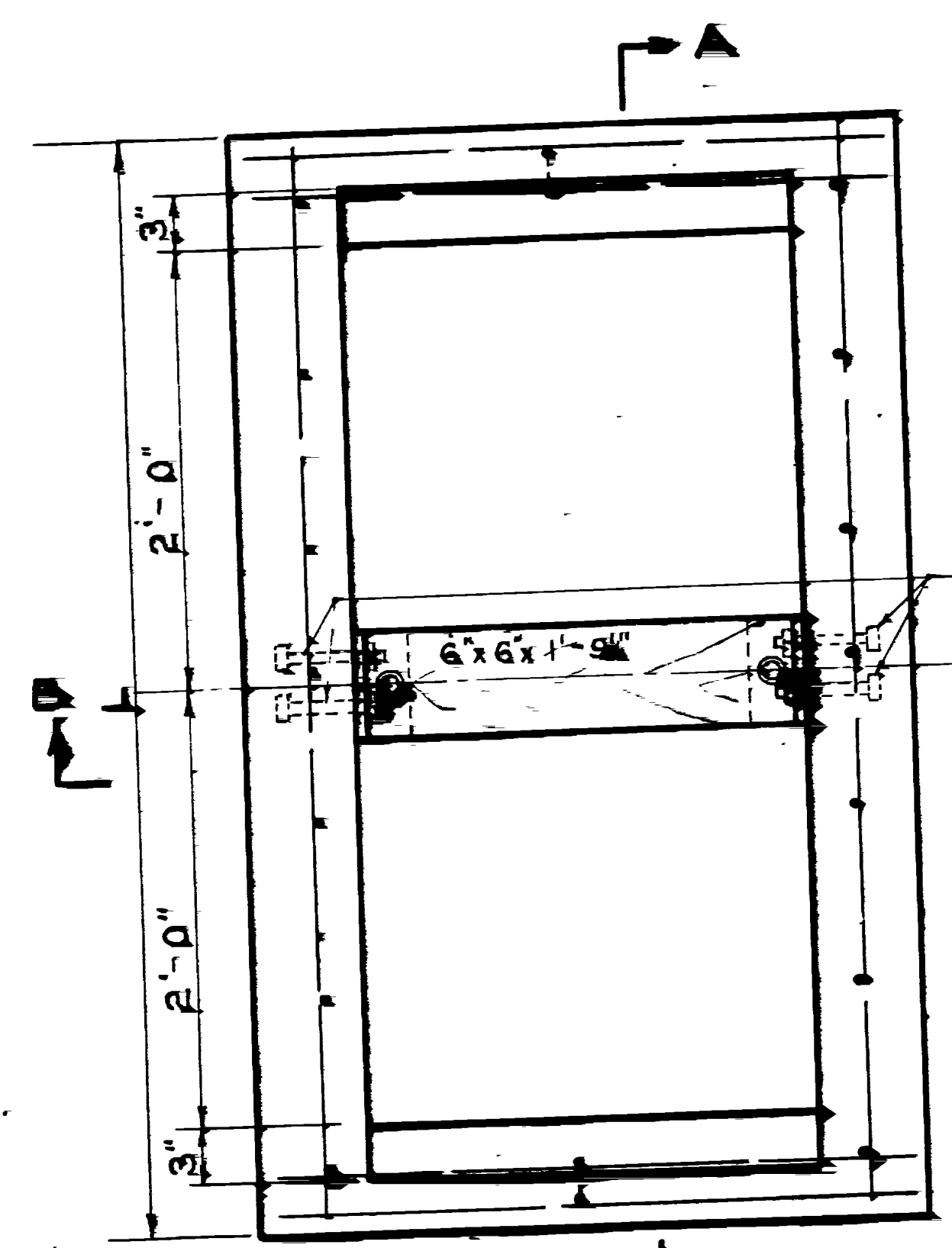
NOTE:  
All lumber shall be full size California Redwood structural grade (DOWNEY) Payment for Supports to be in accordance with Division 5 Sec. 05200 Specifications Grating & Supports - 05200

**DESIGN DATA**  
Live Load = 15 psf  
fc = 1000 psi  
n = 10  
fs = 16000 psi for Reinforcing Steel  
fs = 16000 psi for Bars  
fs = 16000 psi for Bars

Note: Line 1 to be used for the following locations on ANCEI PAP 215 A (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

### SCHEDULE OF INSTALLATIONS (See General Notes)

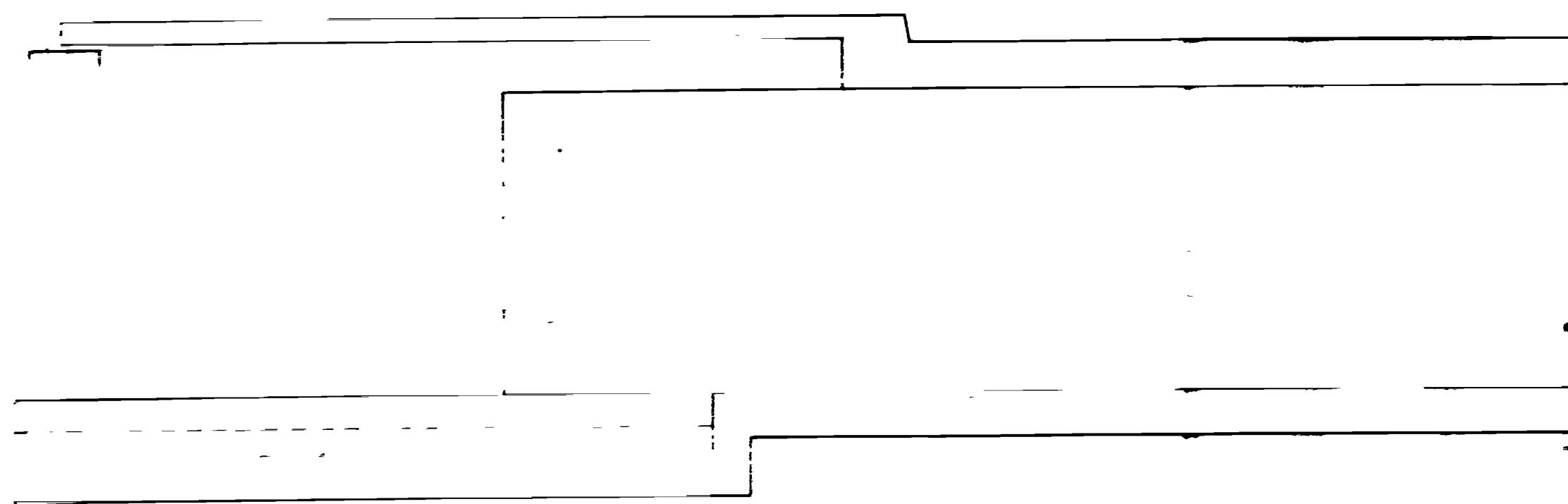
DETAIL				BRINE STEEL										QUANT		PROJECT			
CONTRACT No.	LINE No.	TYPE	SIZE OF PIPE	MATERIAL	T	L	M	K	H	BAR	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	1	B	24"	Conc.	6"	50	30	20	65	12"	13	14	1	2	69	2010	ANAS - South Arroyo	119-210	
2	2	B	18"	Tile	6"	50	30	20	65	12"	13	14	1	2	74	2311	Clearfield Hillfield	119-210	
3	3	B	18"	Tile	7"	50	30	20	65	12"	13	14	1	2	84	2311	Clearfield Hillfield	119-210	
4	4	B	18"	Tile	7"	50	30	20	65	12"	13	14	1	2	86	3213	Clearfield Hillfield	119-210	
5	5	B	18"	Tile	7"	50	30	20	65	12"	13	14	1	2	44	3213	Clearfield Hillfield	119-210	
6	6	B	18"	Tile	7"	50	30	20	65	12"	13	14	1	2	41	1117	Clearfield Hillfield	119-210	
7	7	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	41	1117	Clearfield Hillfield	119-210	
8	8	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	42	1117	Clearfield Hillfield	119-210	
9	9	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	43	1117	Clearfield Hillfield	119-210	
10	10	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	55	1117	Clearfield Hillfield	119-210	
11	11	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	
12	12	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	
13	13	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	
14	14	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	
15	15	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	
16	16	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	
17	17	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	
18	18	A	18"	Conc.	6"	50	30	20	65	12"	13	14	1	2	44	1117	Clearfield Hillfield	119-210	



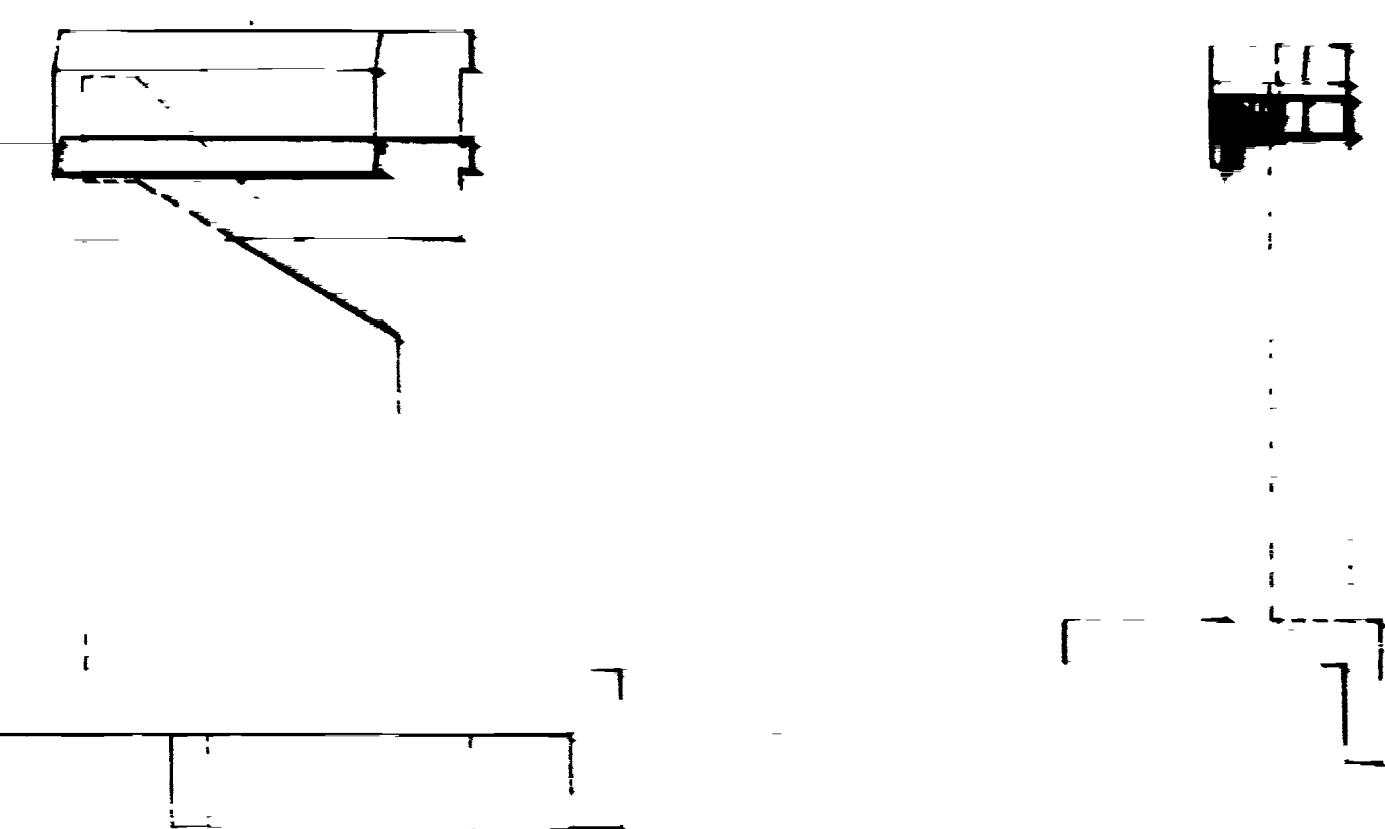
**GENERAL**  
For materials see State Specifications for Road and Bridges 1958 edition. All exposed surfaces shall be finished with a minimum of 1/4" concrete. For Type A structures will enter at side of structures pipe shall be minimum. A unit shall include Basin Grating and complete. Quantities shown are indicated for some station are to be determined to requirements shown on way Plans.

UTAH STATE ENGINEERING BOARD  
CATER

FED. ROAD DIST. NO.	STATE	F.S. PROJ. NO.	FISCAL YEAR	CONTRACT NO.	TOTAL SHEETS
12	UTAH	142 A(4)			



LONGITUDINAL SECTION  
1/4"=1'-0"



END ELEV. WING No. 4  
1/4"=1'-0"

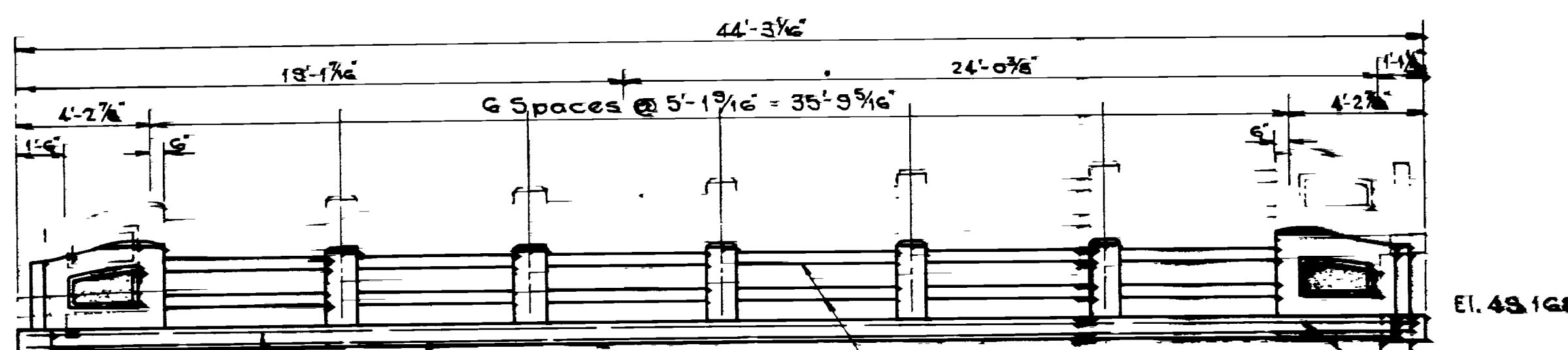
REINFORCING STEEL SCHEDULE						
Mark	Location	Size	No.	Total Length	Sketch	Qty.
W1	Curb Beam	1/2" x 20' x 3"	3	52'-0"	—	
W2	Wall Curb	1/2" x 18' x 2"	2	38'-0"	—	
W3	Curb	1/2" x 20' x 2"	2	46'-2"	—	
X1	Int. H.R. Posts	1/2" x 3' x 2"	2a	73'-4"	C	3'-11"
X2	End "	1/2" x 3' x 2"	2a	76'-8"	C	3'-3"
L1	"	1/2" x 4' x 1/2"	12	52'-0"	—	
Note: X1 & X2 Bars replace R1 & R2 Bars resp as shown on H.R. Detail - Sh. 2, Drg. No. E-355 46'-2" of 1/2" @ 0.668% = 30.8# 52'-0" of 1/2" @ 3.313% = 279.0# 200'-0" of 1/2" @ 0.85% = 200.0# <b>Total 510.8#</b>						

GENERAL NOTES

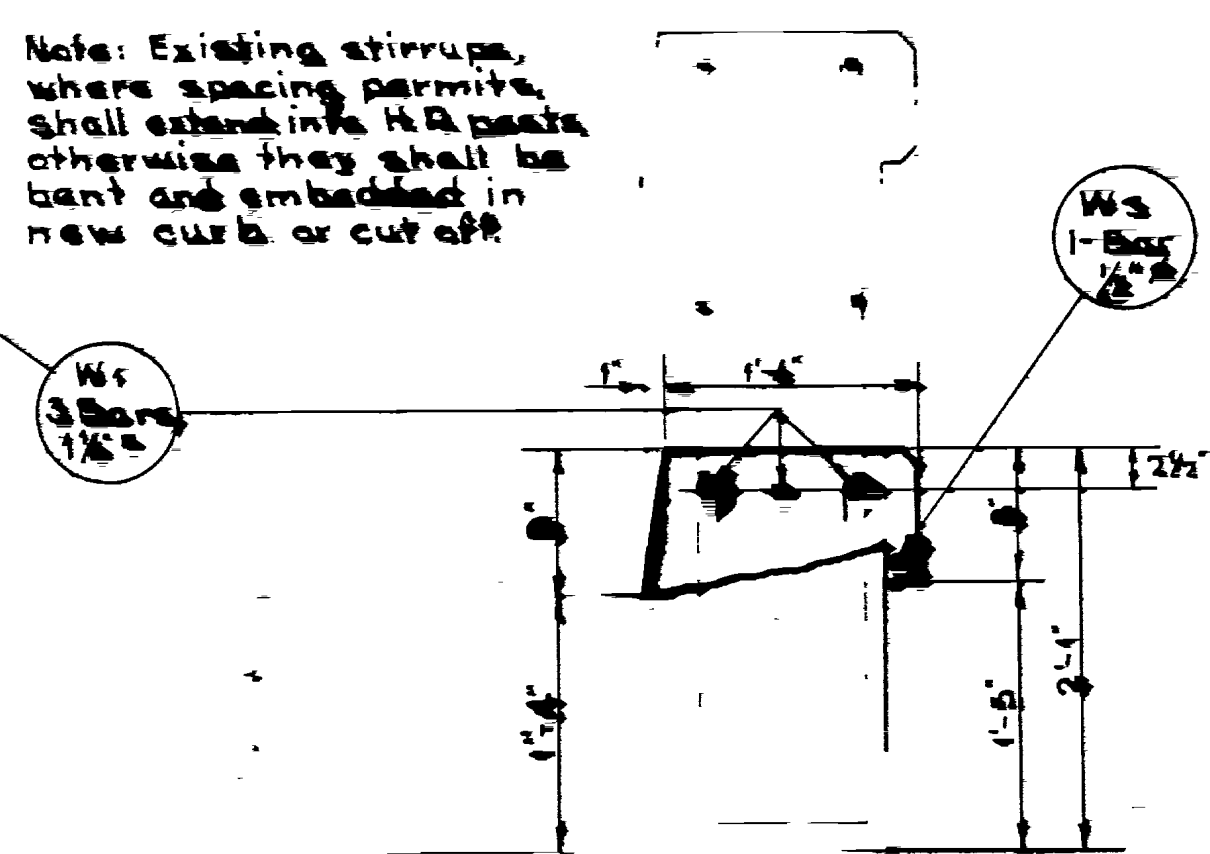
Materials, construction and workmanship shall be in accordance with State Stan. Spec. for Road and Bridge Construction, 1939 edition and Supplements thereto.  
 All concrete shall be Class "A".  
 Removal of existing Handrail and curbswall shall be paid for as Excavation for Structure.

QUANTITIES

Excavation for Structure 58 Cu. Yds.  
 Concrete Class "A" 26 Cu. Yds.  
 Reinforcing Steel 510.8 Lbs.

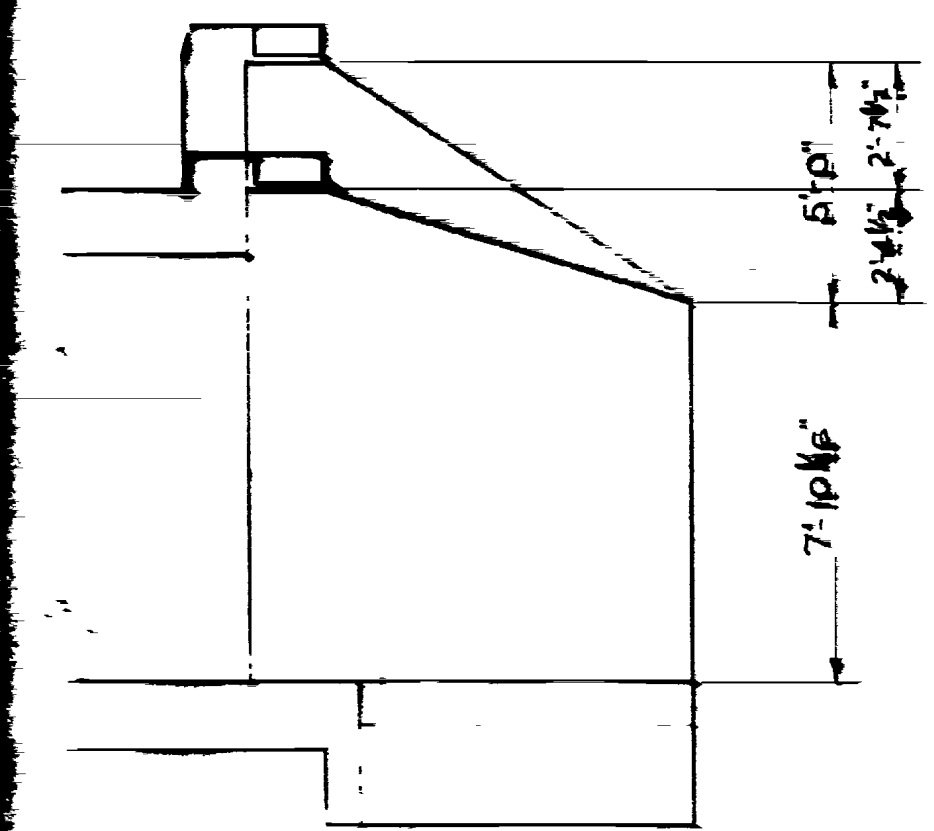


LONGITUDINAL ELEV. UP STREAM END  
1/4"=1'-0"



Note: Existing stirrups, where spacing permits, shall extend into H.R. posts otherwise they shall be bent and embedded in new curb or cut off.

See THIS CURB UP STREAM END  
1"=1'-0"



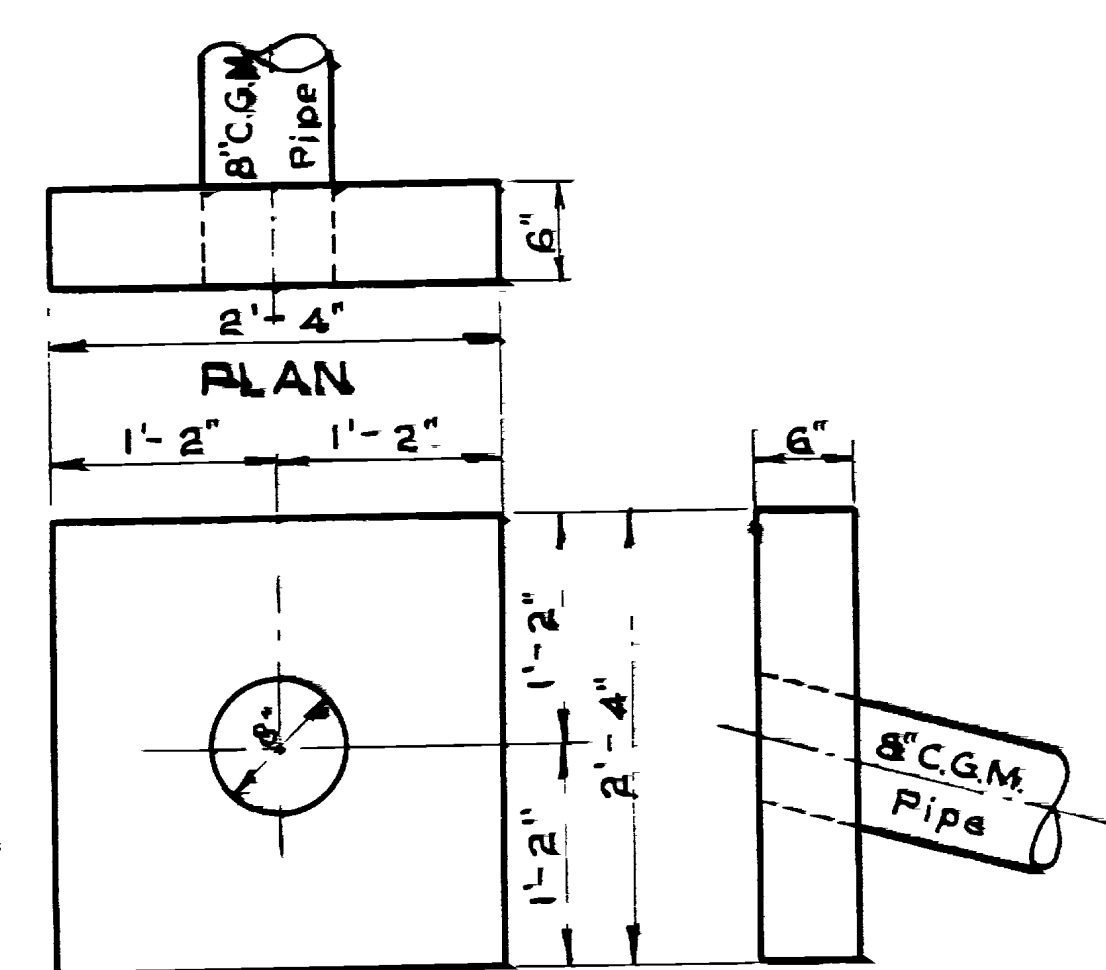
SECTION E-E & FRONT ELEV. WING No. 2  
1/4"=1'-0"

Note: For plans of present structure see Drg. No. E-355

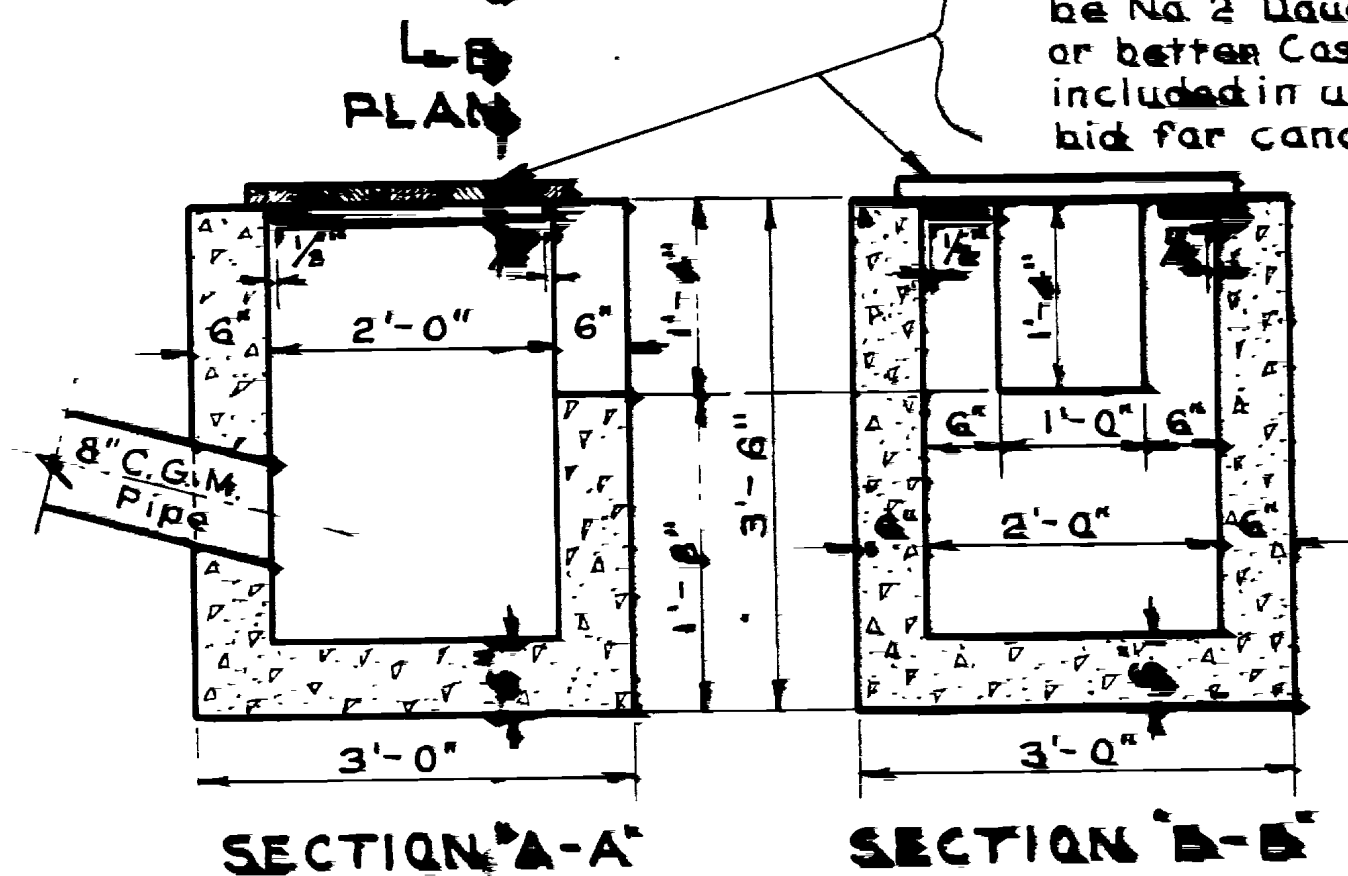
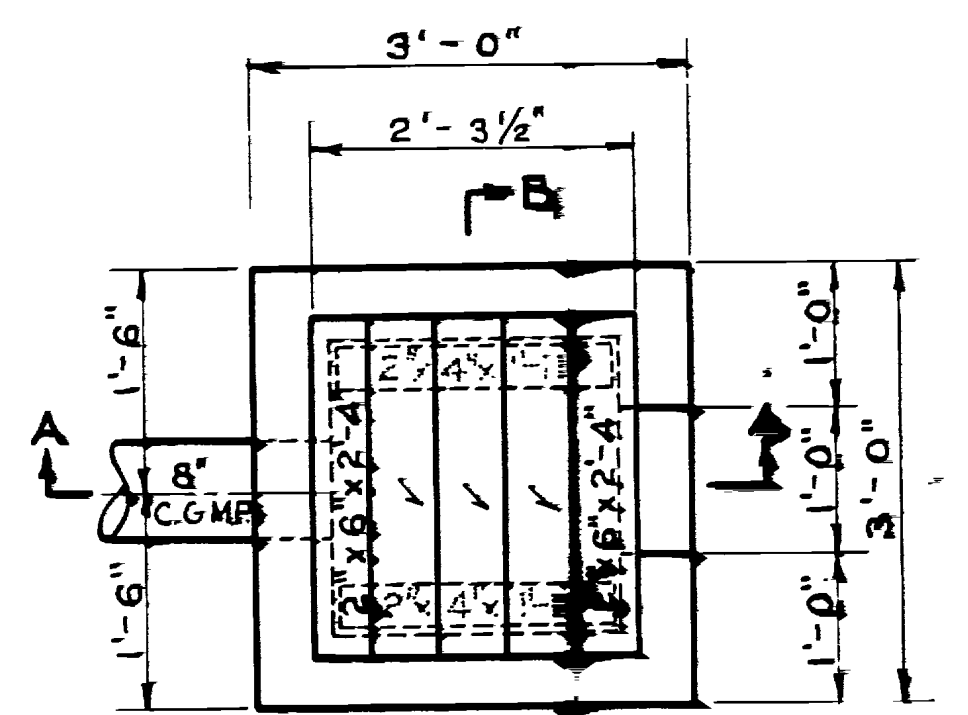
UTAH STATE ROAD COMMISSION  
 BRIDGE DEPARTMENT  
**CURB & H.R. REVISION**  
 MEMBER: DANIEL CARL BRIDGE  
 MEMBER: CURB & H.R. REVISION  
 No. 22-32  
 Date: 12-1-32  
 Scale: 1/4"=1'-0"

REVISION	DATE	BY	CHKD.

FEED ROAD	STATE	SCALE	TOTAL	DATE	BY
12	UTAH	1/4" = 1'-0"			

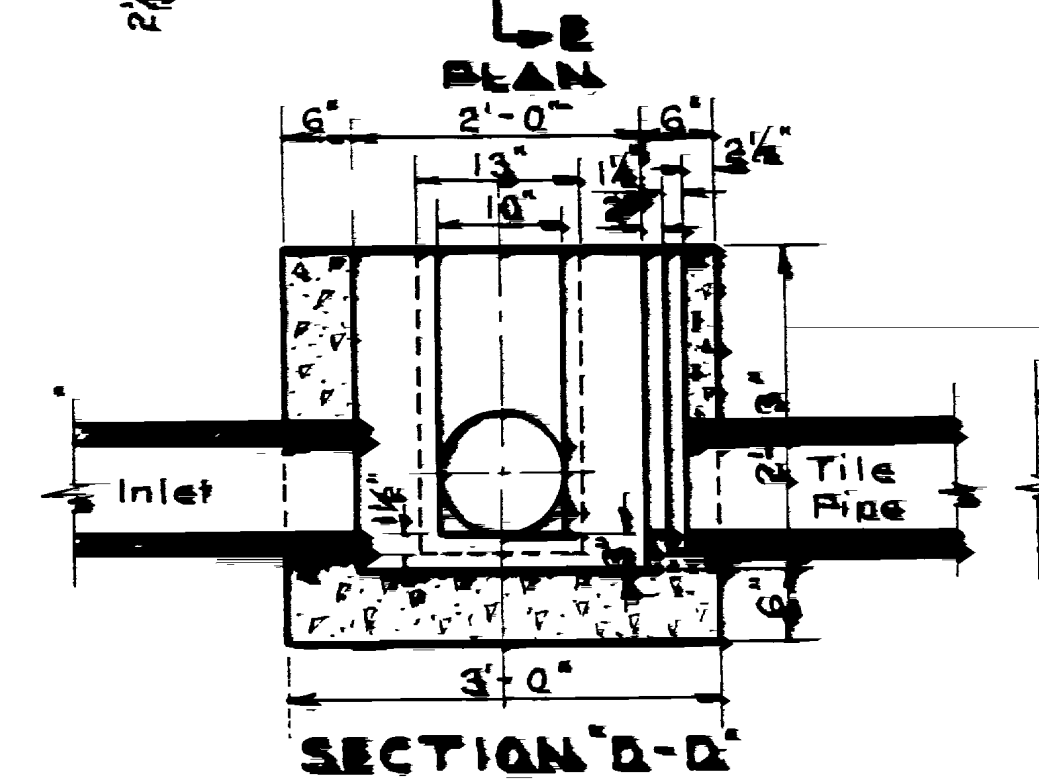
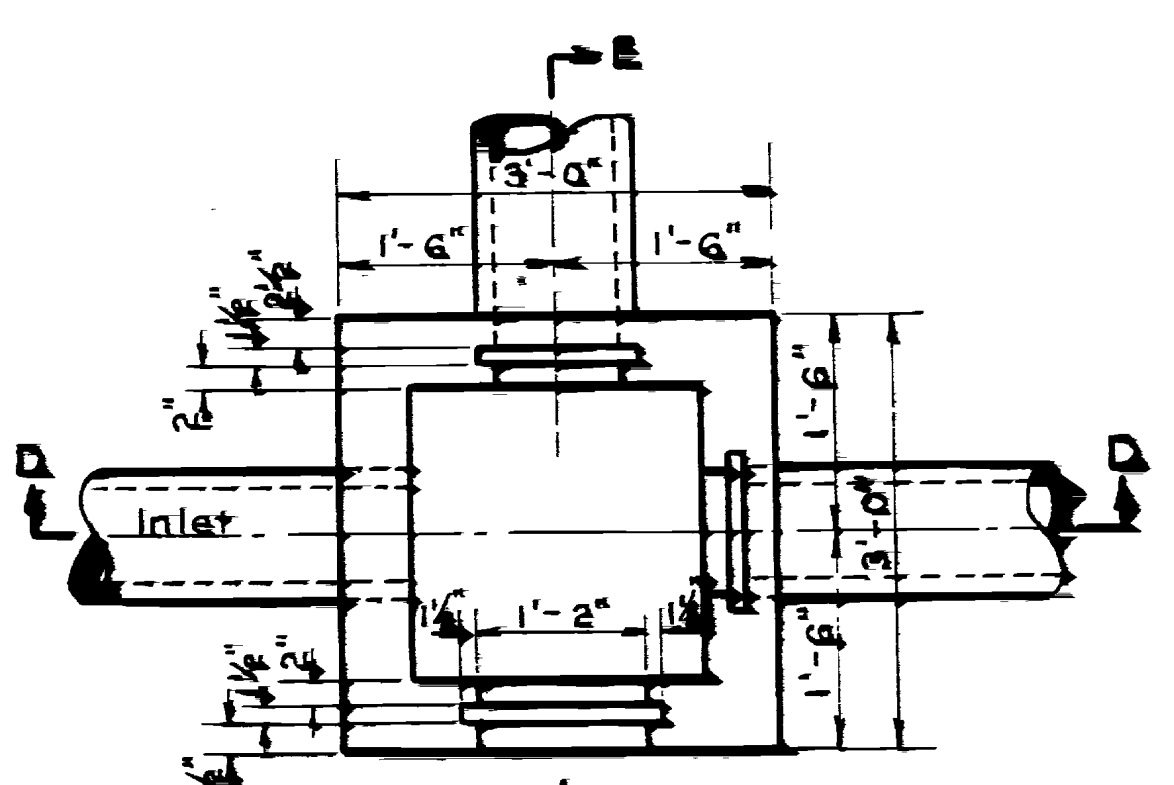


**ELEV SIDE ELEV**  
**CONCRETE HEAD WALL**  
 (2-REQ) STA. 26+50<sup>±</sup> & 31+00<sup>±</sup>  
 1" = 1'-0"



NOTE: Wood Covers to be No 2 Douglas Fir or better Cast to be included in unit price bid for concrete.

**SECTION A-A SECTION B-B**  
**STILLING BOX**  
 (3-REQ) STA. 27+50<sup>±</sup>, 32+50<sup>±</sup> & 44+75<sup>±</sup>  
 3/4" = 1'-0"



**SECTION D-D SECTION E-E**  
**STANDARD DIVERSION BOX**  
 FOR STA. 40+25<sup>±</sup>, 42+00<sup>±</sup> AND 48+50<sup>±</sup>  
 3/4" = 1'-0"

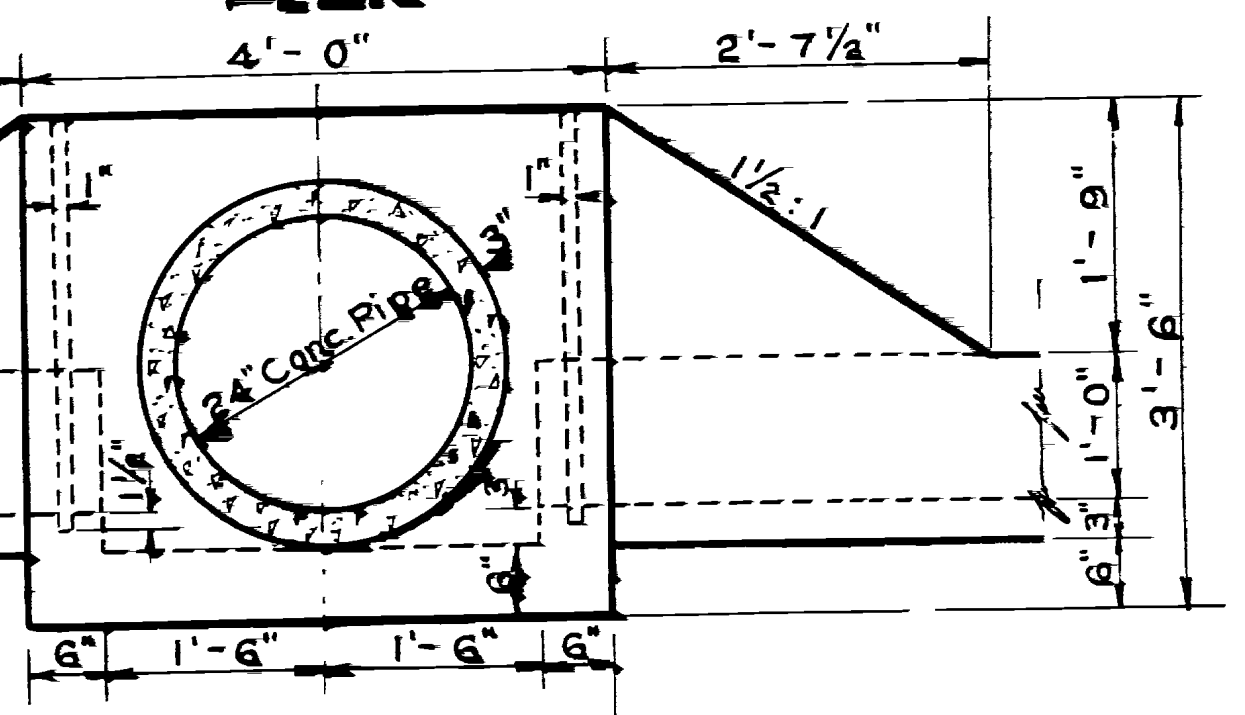
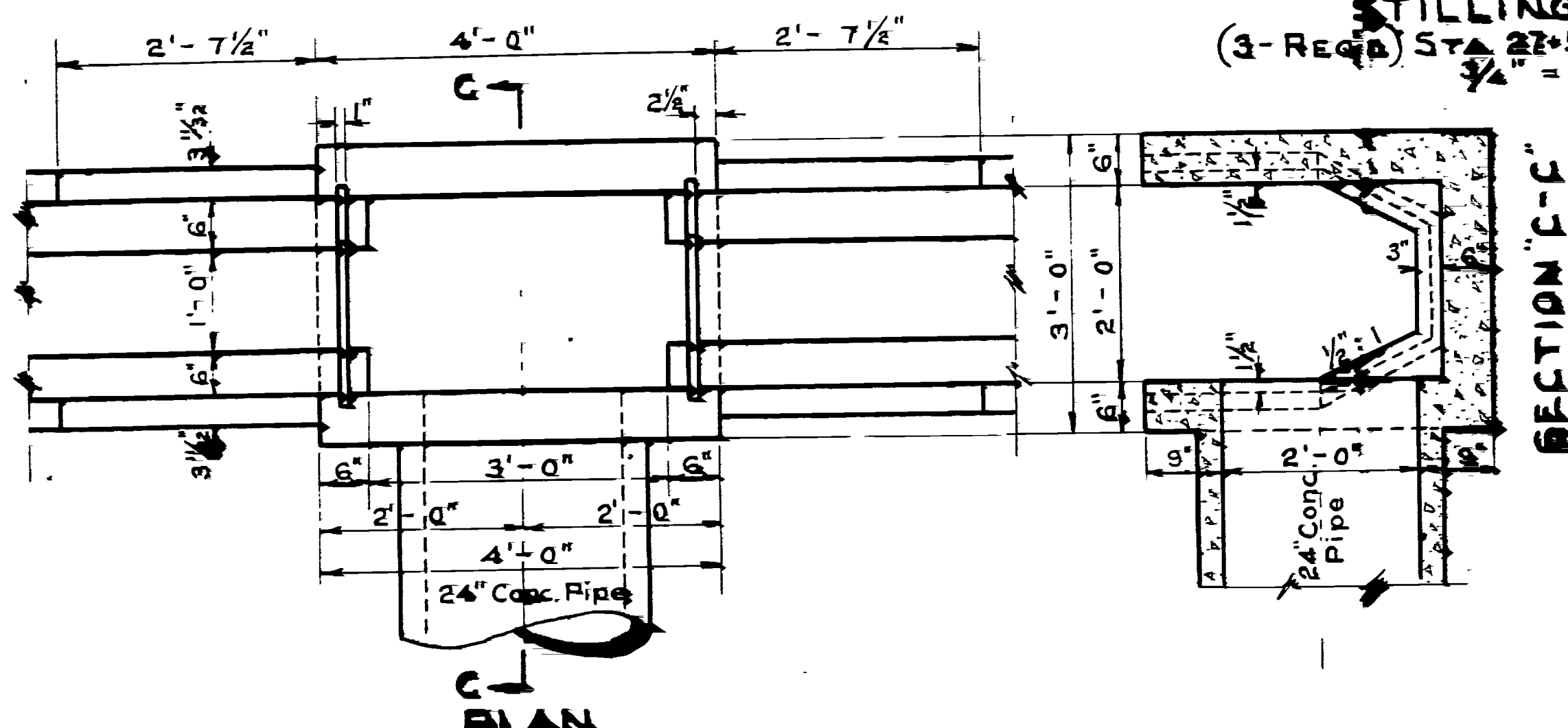
NOTE: Size, Type and Location of openings to be established in field by engineer.

NOTE: Lumber for diversion box headgates to be No 2 Douglas Fir or better and cost to be included in unit price bid for concrete.

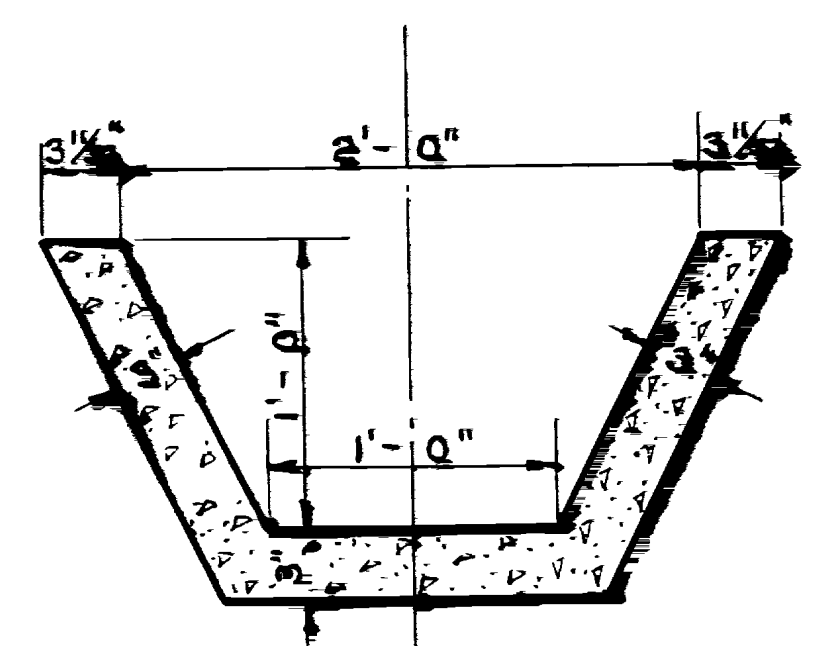
**GENERAL NOTES**  
 Materials, construction and workmanship shall be in accordance with State Standard Specifications for Road and Bridge construction, edition of 1958 and supplements thereto.  
 All structures to be class "A" concrete exposed edges to be chamfered 1".

**QUANTITIES**  
 Excavation for Structures 16.1 Cu Yds  
 Concrete Class "A" 4.6 Cu Yds

REVISIONS	DATE	BY	REASON



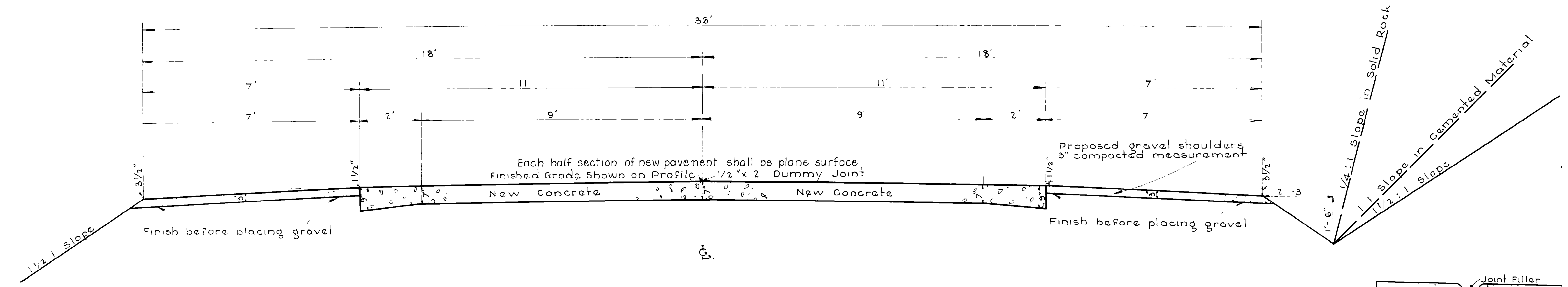
**ELEVATION**  
**DIVERSION BOX**  
 STA. 35+00<sup>±</sup>  
 3/4" = 1'-0"



**TYPICAL SECTION OF CONC. DITCH**  
 STA. 32+50<sup>±</sup> TO 48+00<sup>±</sup> & STA. 45+00<sup>±</sup> TO 54+50<sup>±</sup>  
 1 1/2" = 1'-0"

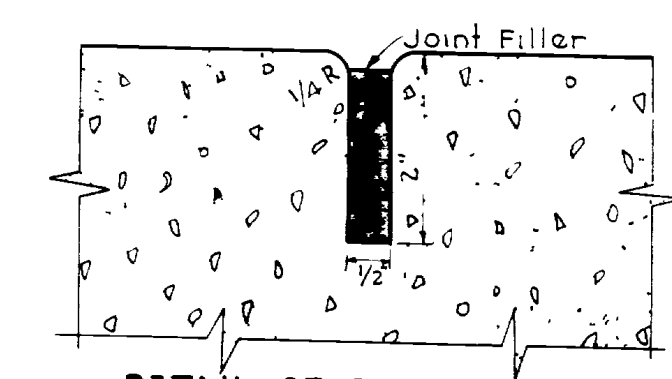
# TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH				

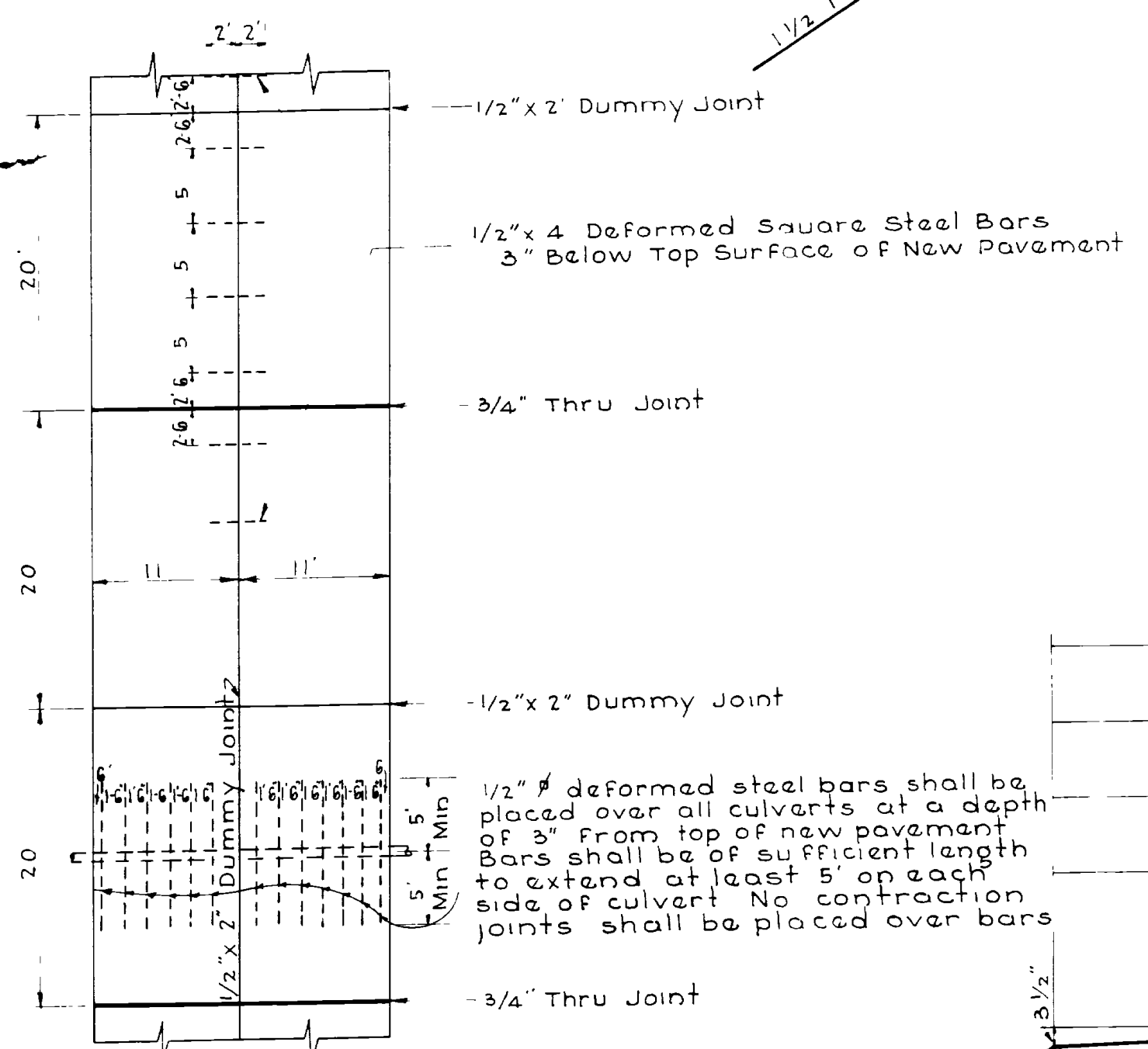


USED BETWEEN STA. . . . . AND STA. . . . .

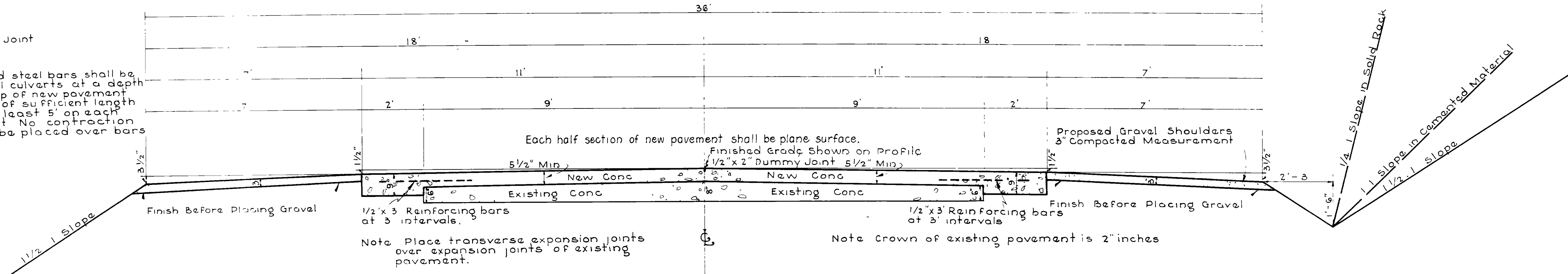
TYPE "A"



DETAIL OF DUMMY JOINT  
Scale 1" = 2"  
Note: Joint filler shall be pre-moulded to conform to template. No contraction joints shall be placed over reinforcing bars at culverts.

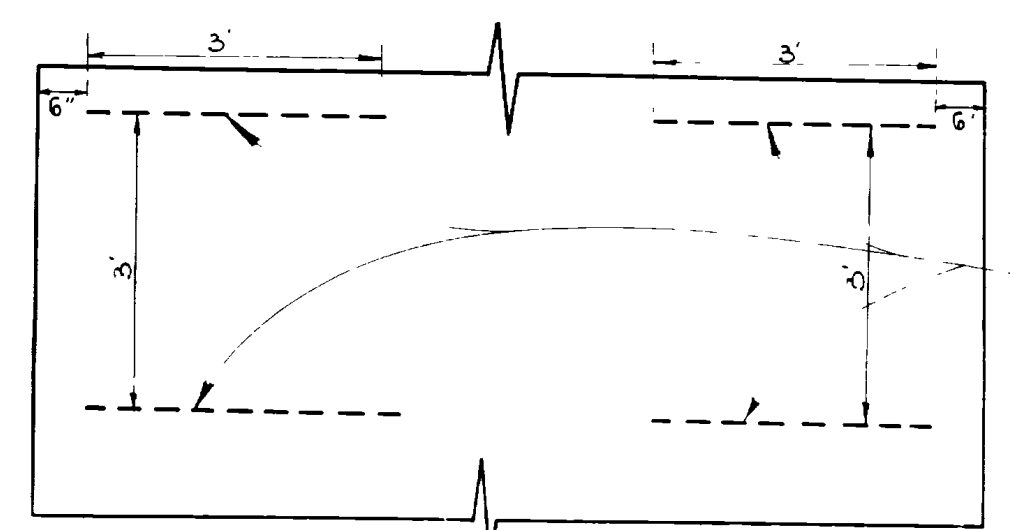


PLAN  
Scale 1" = 10"  
Type "A"



USED BETWEEN STA. . . . . AND STA. . . . .

TYPE "B"

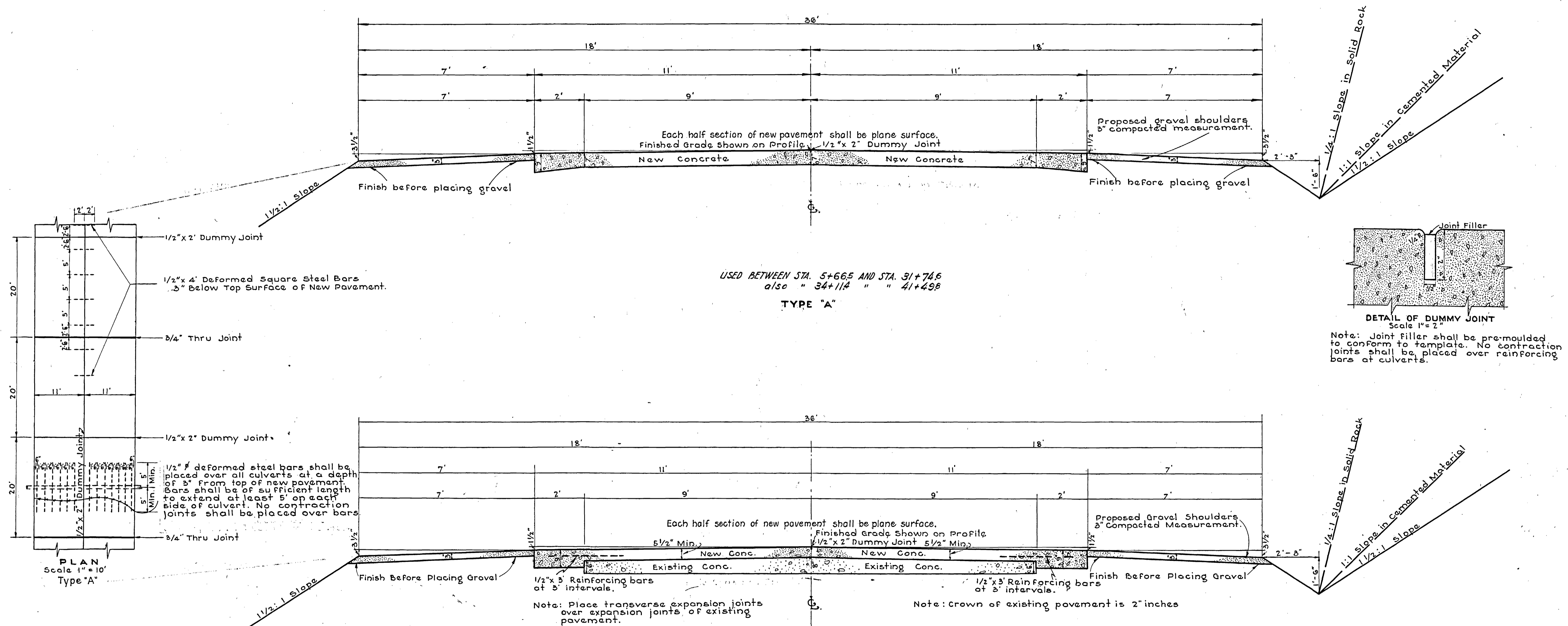


PLAN OF REINFORCING BARS AT EDGE OF CONCRETE - Type "B"

USED ON	UTAH STATE ROAD COMMISSION
F. A. P. NO.	SALT LAKE CITY, UTAH
E-114-A	H. D. KERR - CHIEF ENGINEER
	CEMENT CONCRETE SURFACE
DESIGNED BY	SCALE 1" = 2'-0"
DRAWN BY	ISSUED
CHECKED BY	APPROVED
REVIEWED BY	
	TYPE "SPECIAL"

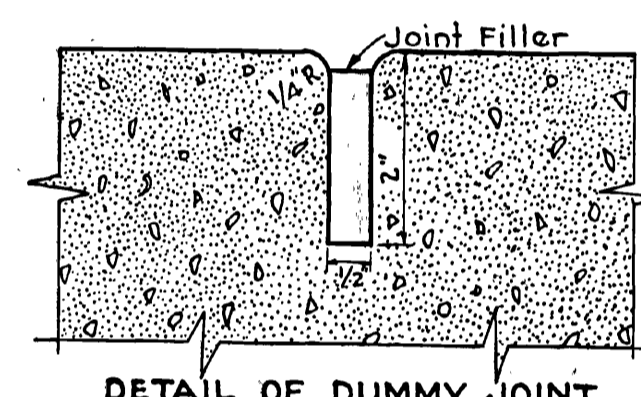
# TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A	1933	2A	

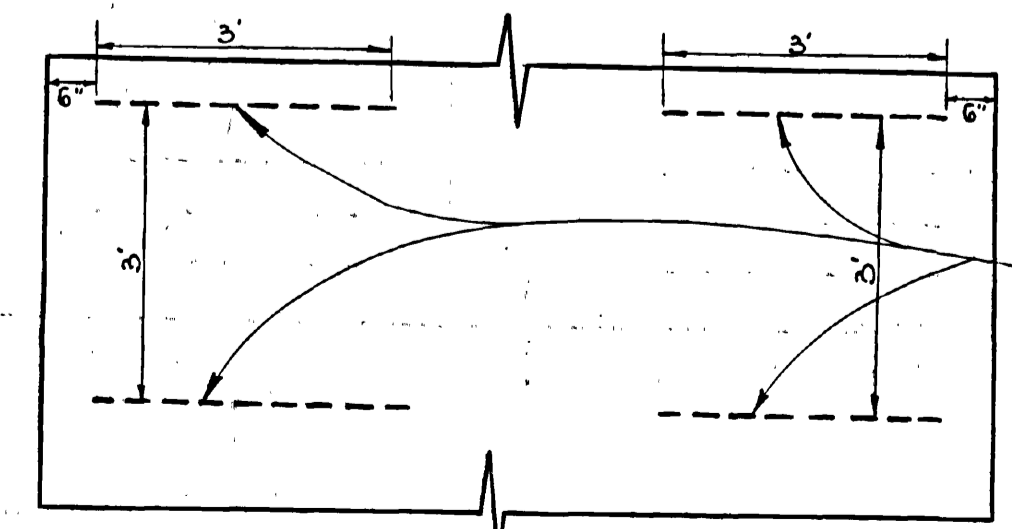
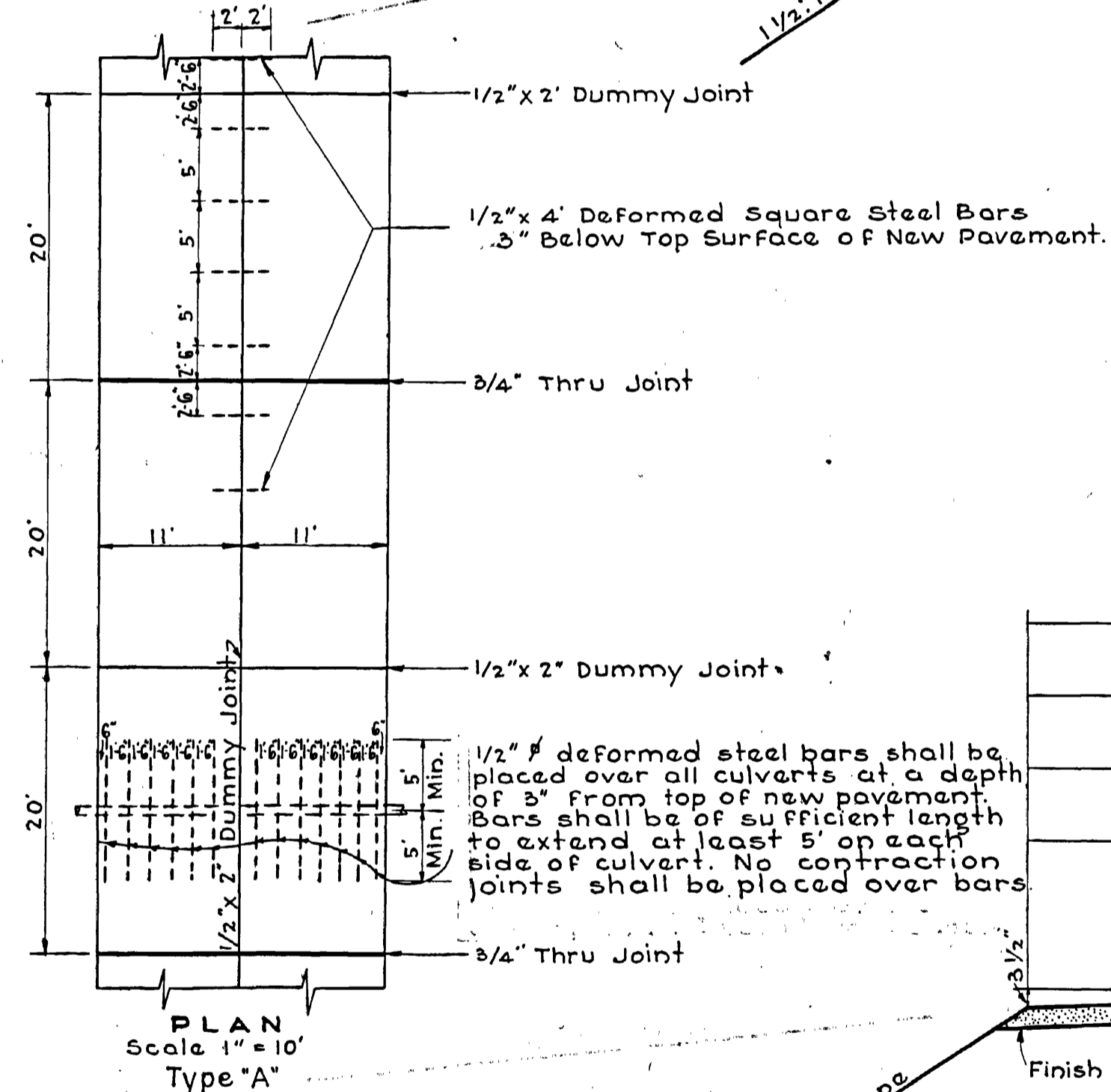


USED BETWEEN STA. 5+665 AND STA. 31+746  
 also " 34+114 " " 41+498  
**TYPE "A"**

USED BETWEEN STA. 31+74.6 AND STA. 34+114  
**TYPE "B"**



Note: Joint filler shall be pre-moulded to conform to template. No contraction joints shall be placed over reinforcing bars at culverts.

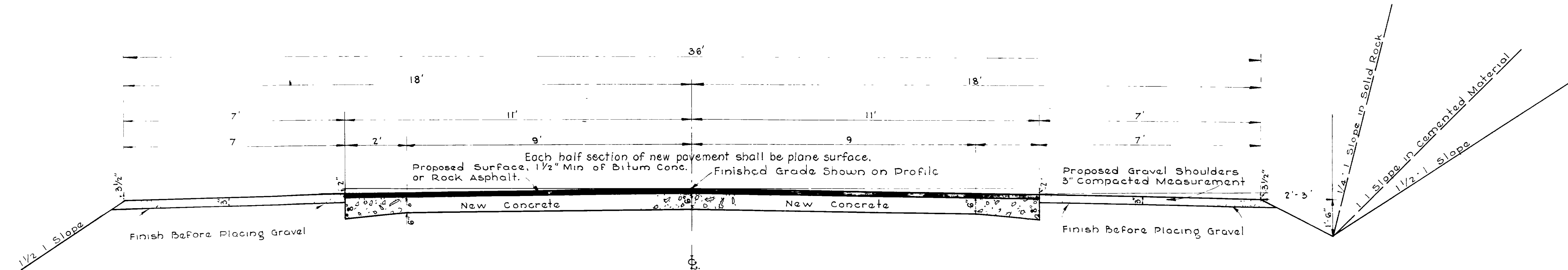


PLAN OF REINFORCING BARS AT EDGE OF CONCRETE - Type "B"

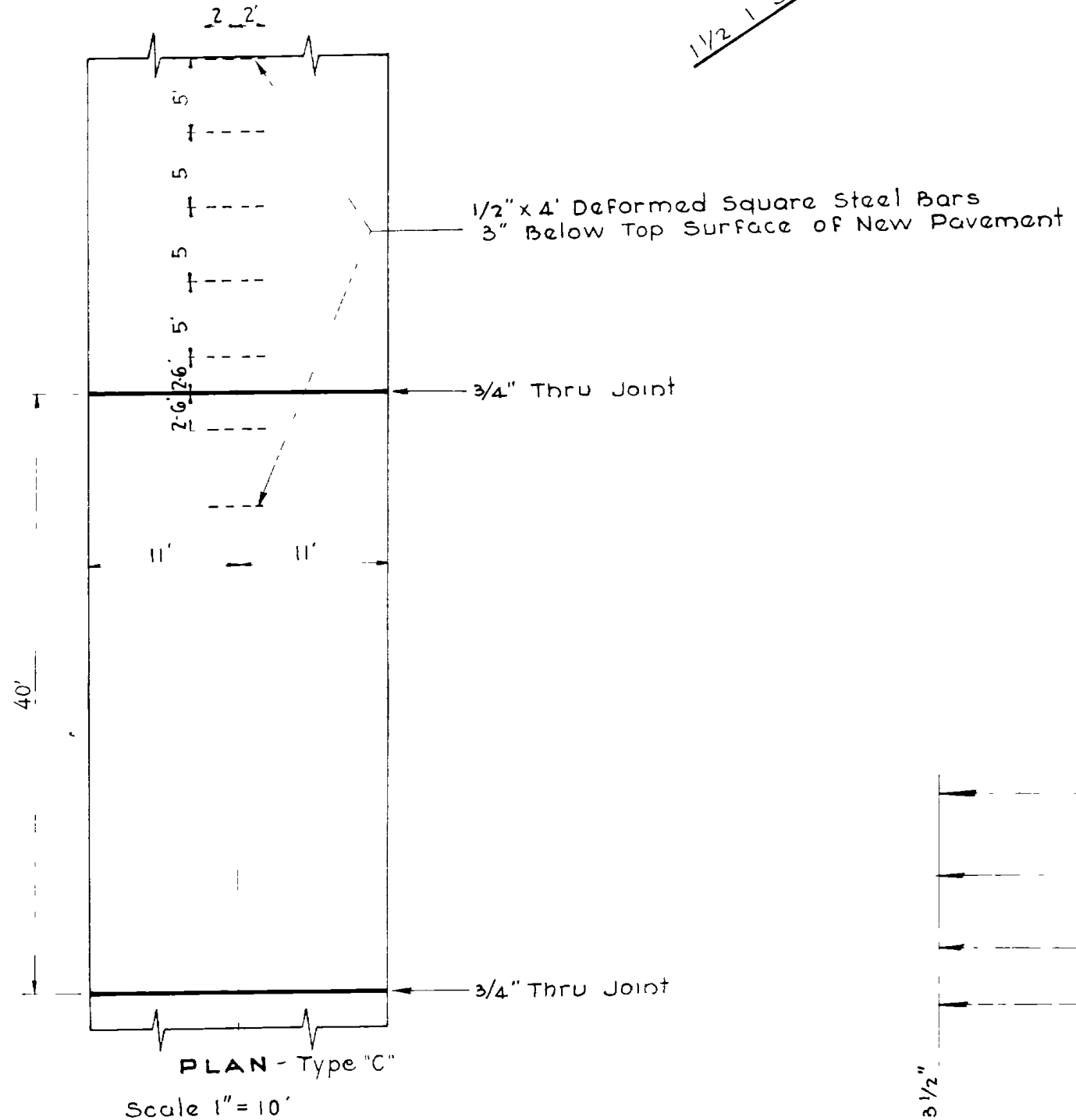
USED ON	UTAH STATE ROAD COMMISSION
F. A. P. NO.	SALT LAKE CITY, UTAH
E-114-A	H. S. KERR - CHIEF ENGINEER
	CEMENT CONCRETE SURFACE
DESIGNED BY	SCALE 1" = 2'-0"
DRAWN BY	ISSUED
CHECKED BY	APPROVED
EXAMINED BY	TYPE "SPECIAL"

# TYPICAL CROSS SECTION

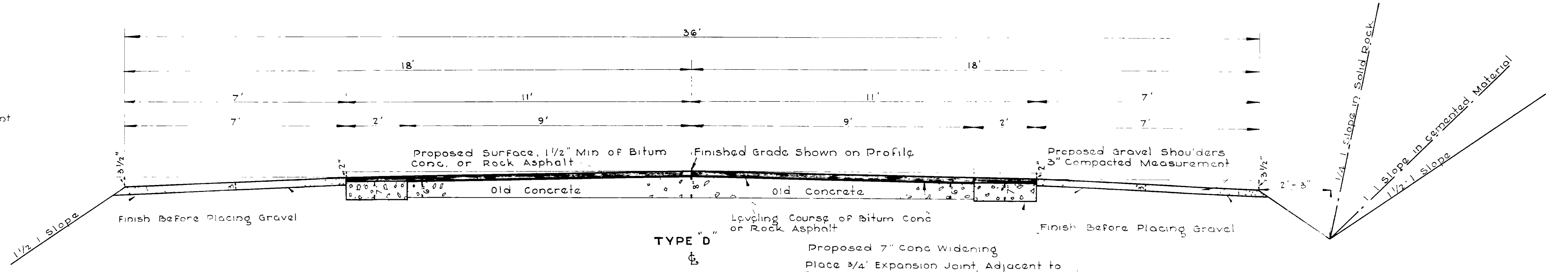
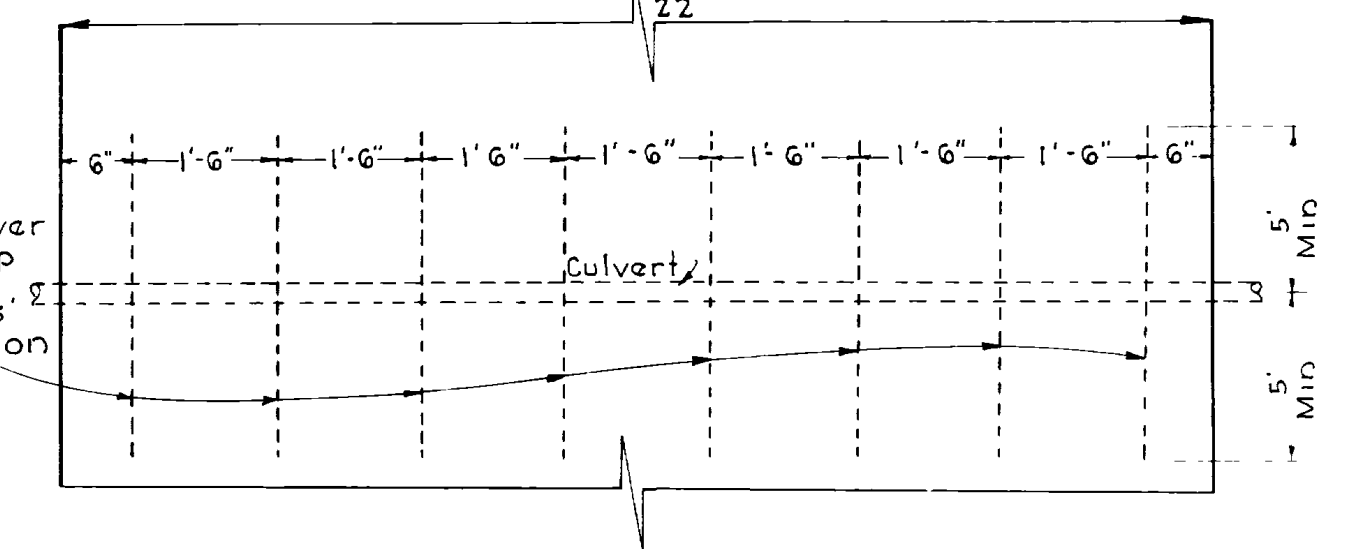
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH				



USED BETWEEN STA. AND STA.  
**TYPE C**



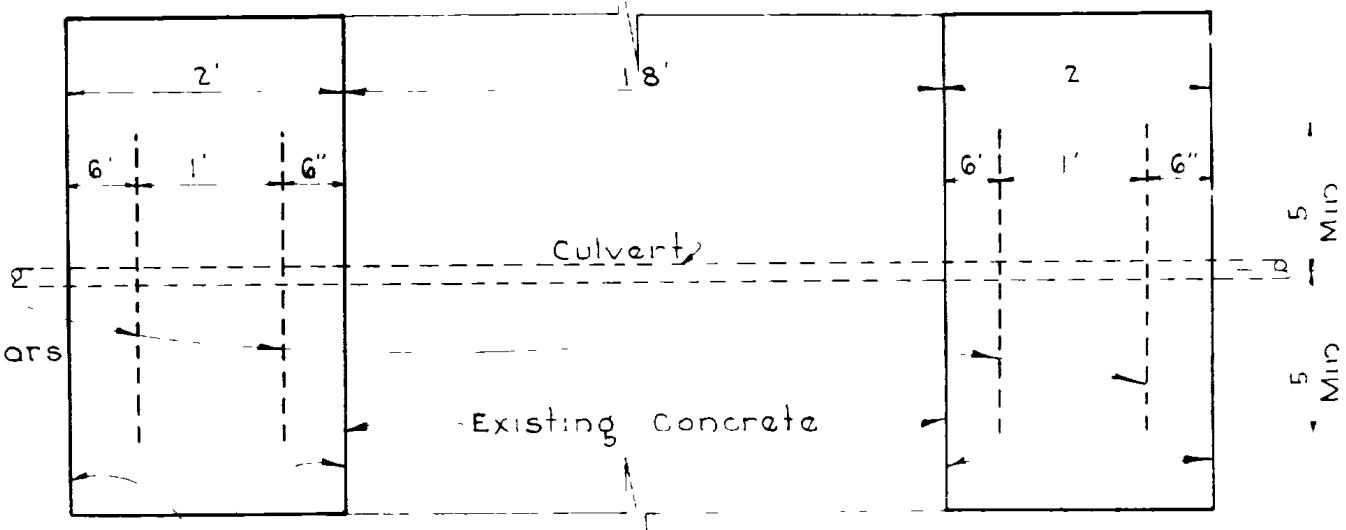
1/2" deformed steel bars shall be placed over all culverts at a depth of 3" from top of new pavement. Bars shall be of sufficient length to extend at least 5' on each side of culvert. No contraction joints shall be placed over bars.



**TYPE D**

USED BETWEEN STA. AND STA.

1/2" deformed steel bars shall be placed over all culverts at a depth of 3" from top of new pavement. Bars shall be of sufficient length to extend at least 5' on each side of culvert. No contraction joints shall be placed over bars.

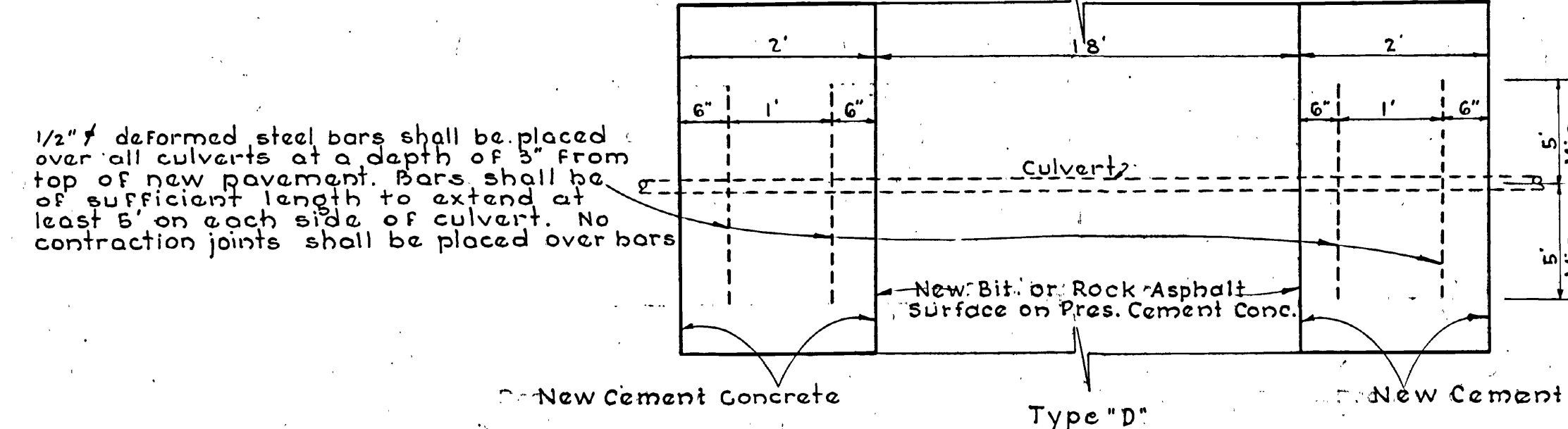
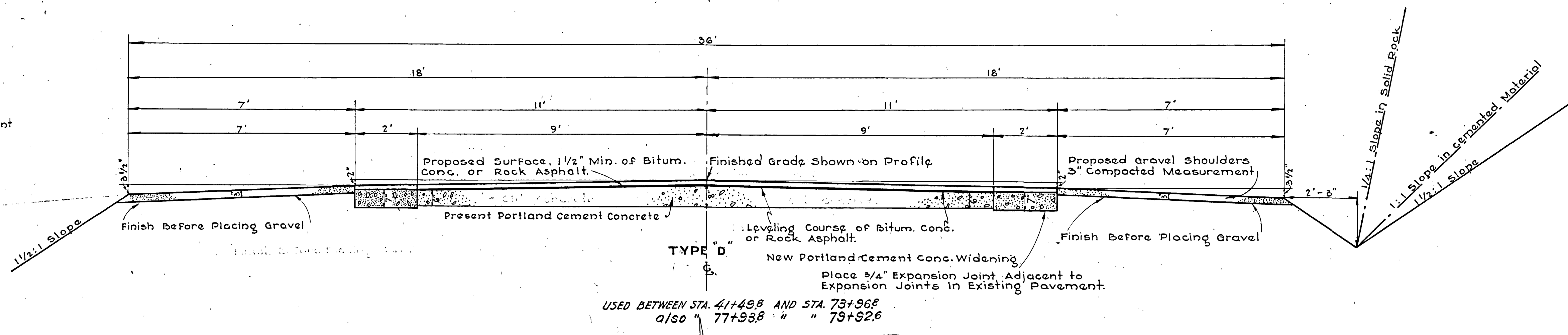
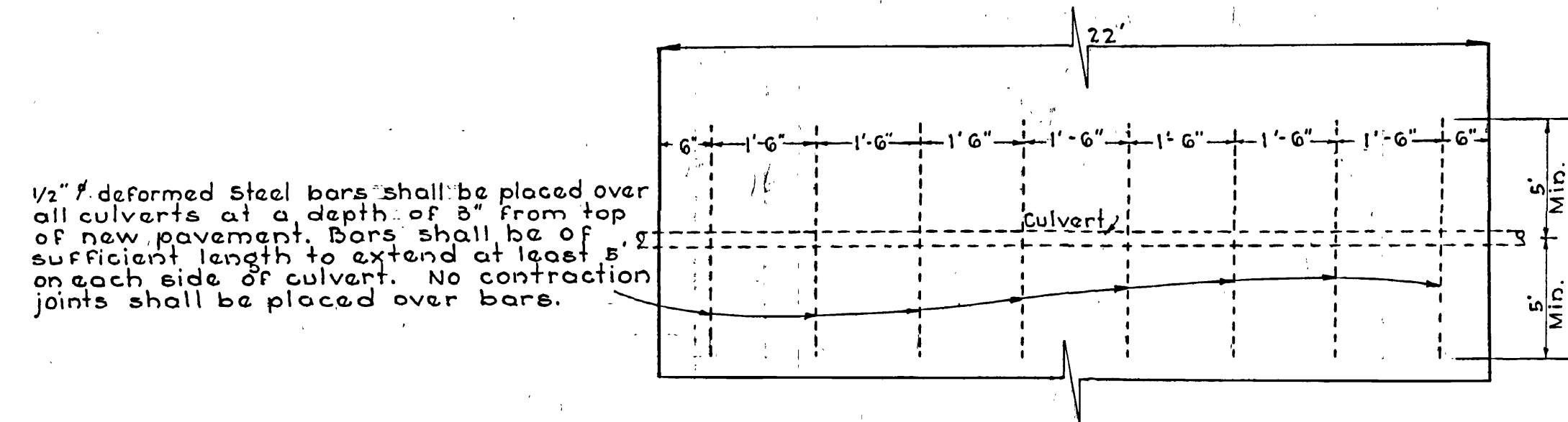
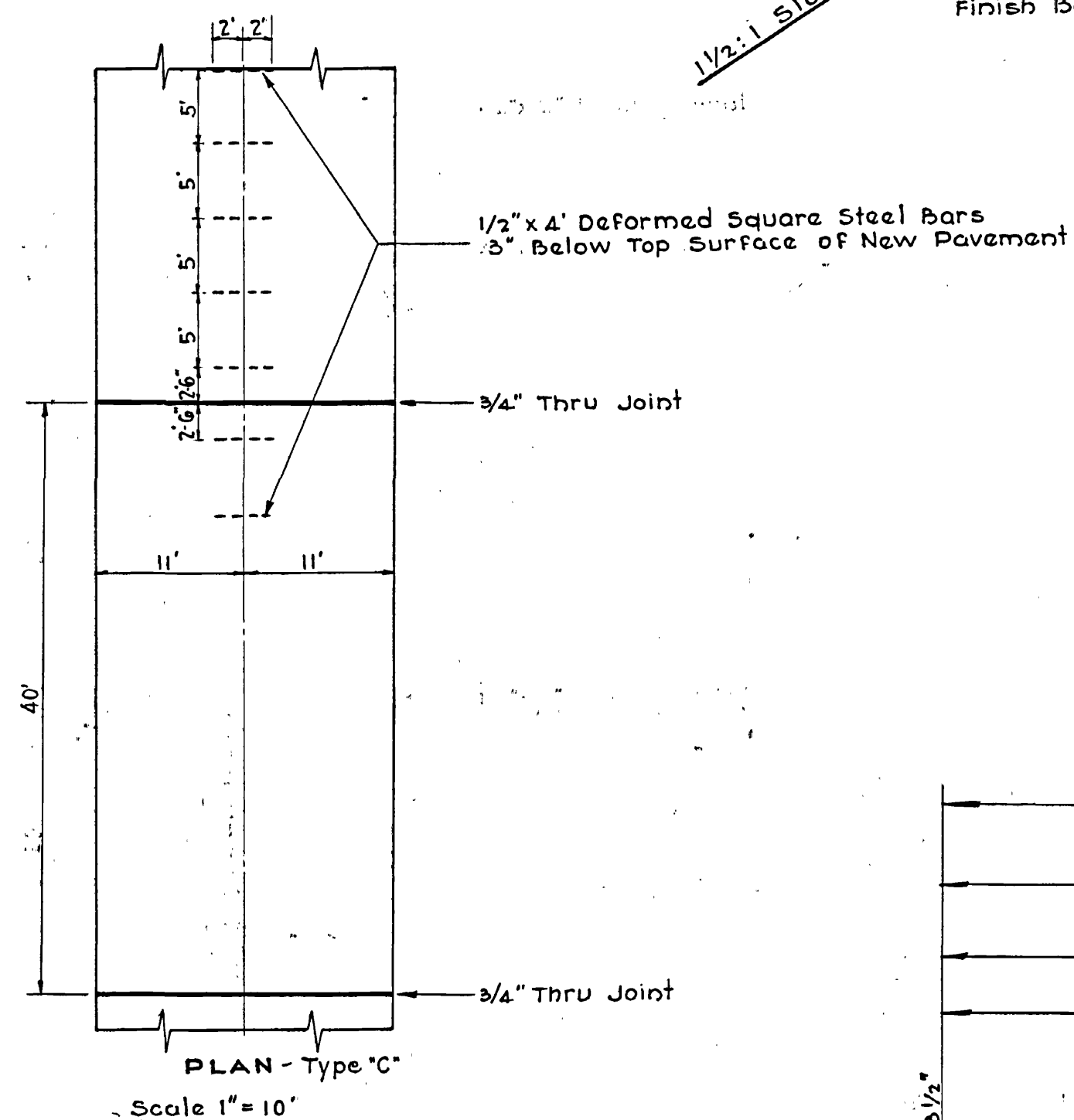
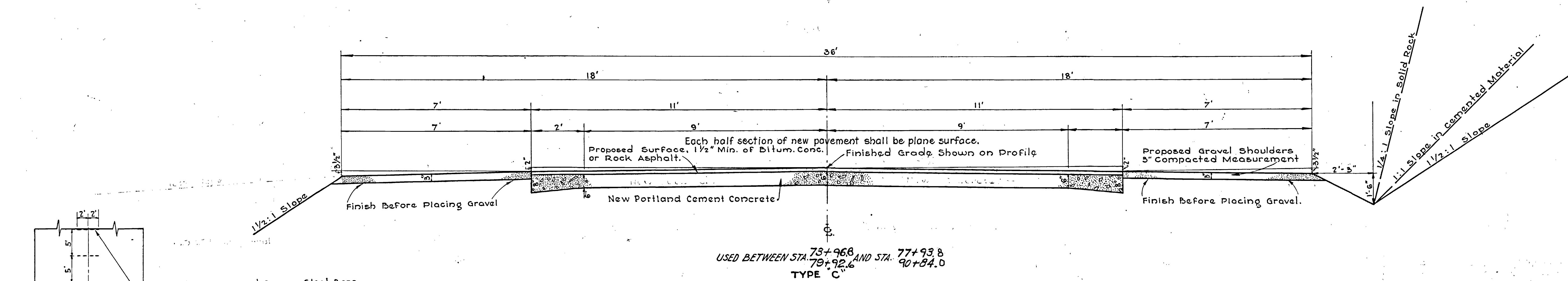


USED ON F. A. P. NO.	UTAH STATE ROAD COMMISSION
E-114-A	SALT LAKE CITY, UTAH H. S. KERR, CHIEF ENGINEER
	1 1/2" Min of Bituminous Concrete or Rock Asphalt on 22' Concrete Base 7' Shoulders
	DESIGNED BY W.L.A. SCALE 1" = 5.2' @
	DRAWN BY H.S.W. ISSUED
	CHECKED BY H.S.W. APPROVED
	EXAMINED BY
	<b>TYPE "SPECIAL"</b>

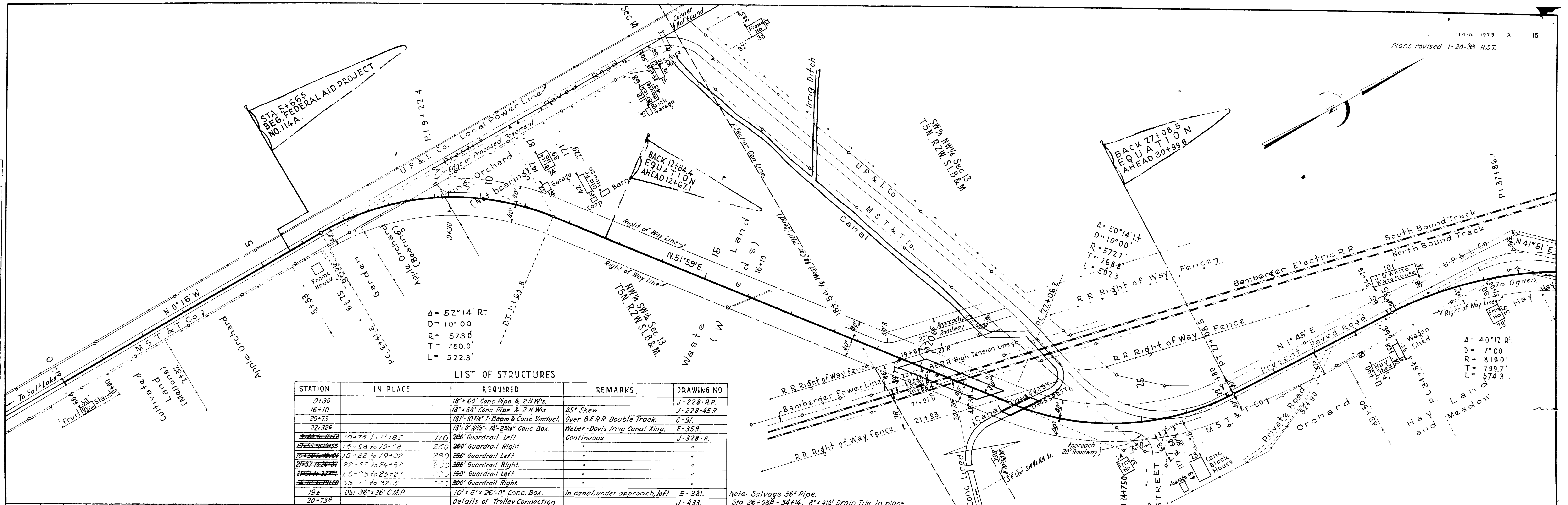


# TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A	1935	2 B	



USED ON F. A. P. NO.	UTAH STATE ROAD COMMISSION
E-114-A	BALT LAKE CITY - UTAH H. S. KERR - CHIEF ENGINEER
	1 1/2" Min. of Bituminous Concrete or Rock Asphalt on 22' Cement Conc. Base 7' Cement Conc. Shoulders
DESIGNED BY J.W.L.A.	SCALE - 1" = 2'-0"
DRAWN BY H.S.W.	ISSUED
CHECKED BY H.S.W.	APPROVED
EXAMINED BY	
	TYPE "SPECIAL"

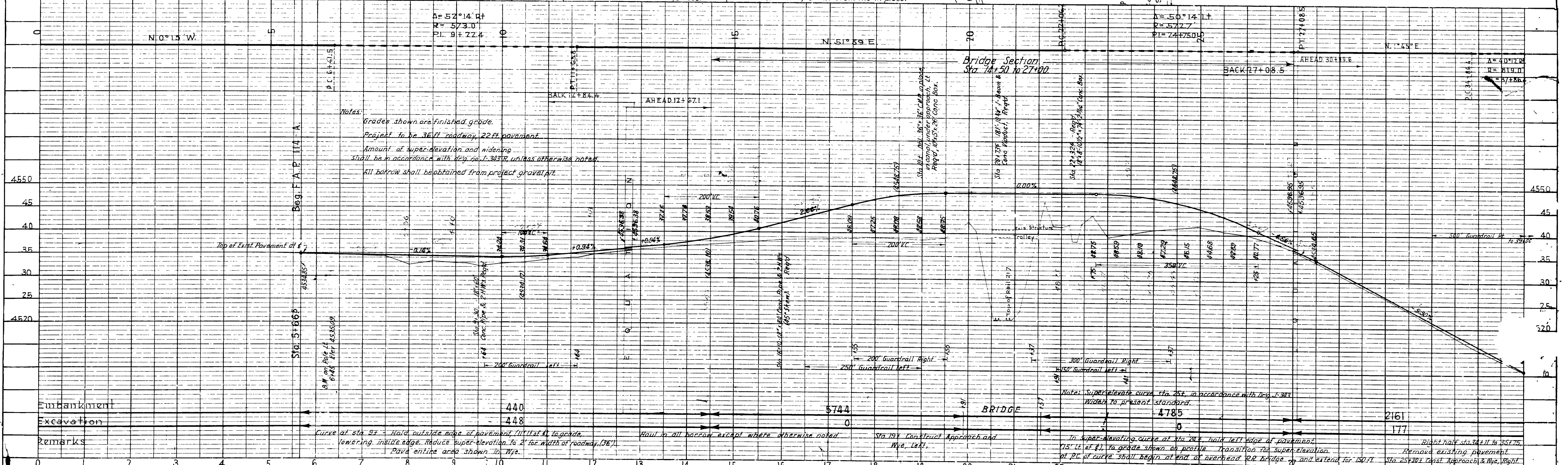


$\Delta = 52^{\circ}14' Rt$   
 $D = 10^{\circ}00'$   
 $R = 573.0'$   
 $T = 280.9'$   
 $L = 522.3'$

LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO
9+30		18" x 60" Conc Pipe & 2 H.W.'s		J-228-R.R.
16+10		18" x 84" Conc Pipe & 2 H.W.'s	45° Skew	J-228-45R
20+73		181' 10 3/8" I-Beam & Conc Viaduct	Over B.E.R.R. Double Track	C-91
22+326		18" x 8" 10 1/2" x 70" x 2 3/4" Conc Box	Weber-Davis Irrig Canal King	E-359
<del>10+75 to 11+85</del>		<del>200' Guardrail Left</del>	<del>Continuous</del>	<del>J-328-R</del>
<del>15+59 to 19+20</del>		<del>200' Guardrail Right</del>		
<del>15+22 to 19+02</del>		<del>200' Guardrail Left</del>		
<del>22+55 to 24+52</del>		<del>300' Guardrail Right</del>		
<del>23+23 to 25+22</del>		<del>150' Guardrail Left</del>		
<del>23+11 to 27+5</del>		<del>500' Guardrail Right</del>		
19+	Dbl. 36" x 36" C.M.P.	10' x 5' x 26'-0" Conc. Box	In canal, under approach, left	E-381
20+736		Details of Trolley Connection		J-433

Note: Salvage 36" Pipe Sta 26+08.5 - 34+14, 8" x 4 1/2" Drain Tile in place.

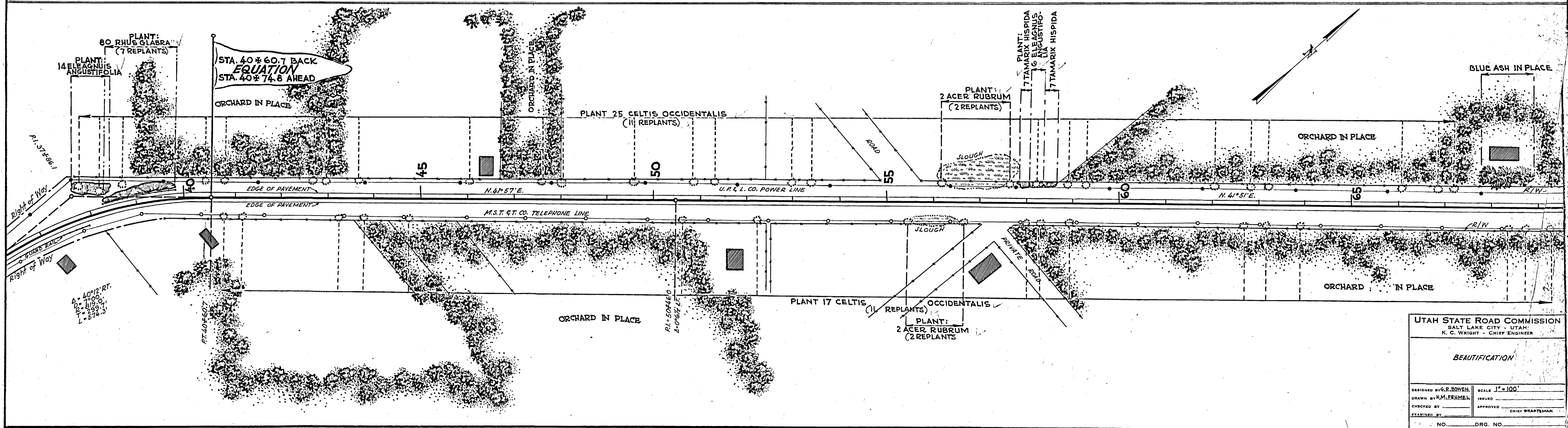
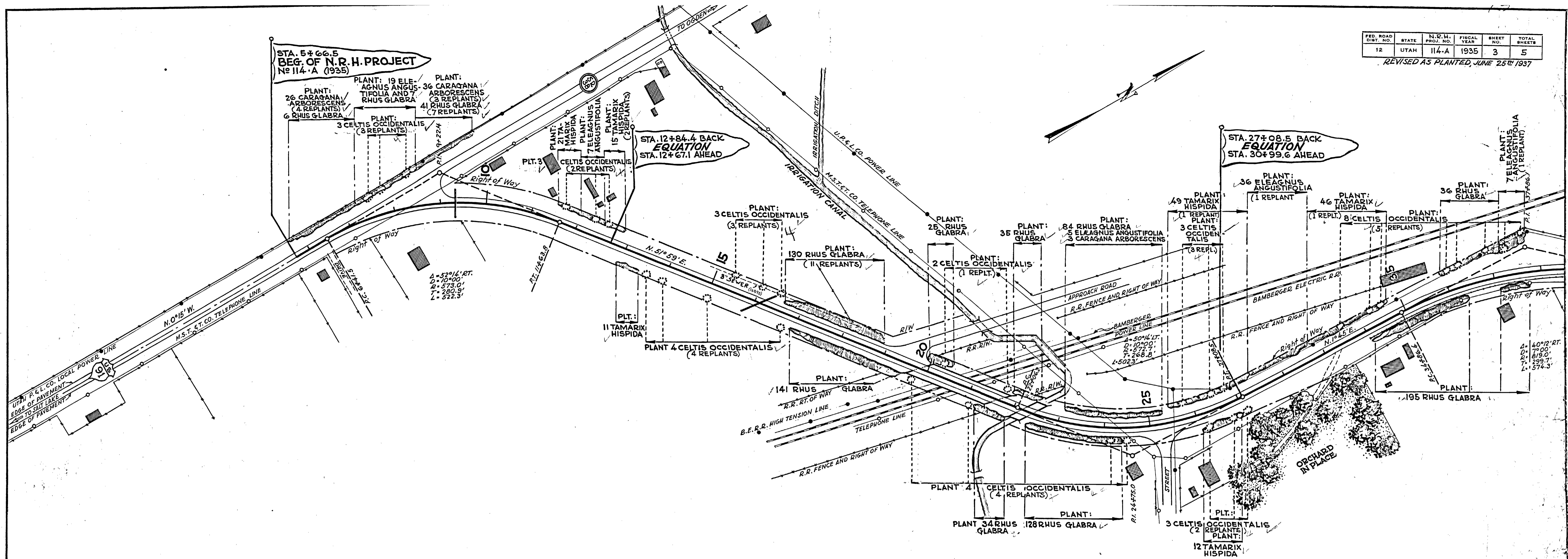


Notes:  
Grades shown are finished grade.  
Project to be 36 ft roadway, 22 ft pavement.  
Amount of super-elevation and widening shall be in accordance with Reg. no. 1-303R unless otherwise noted.  
All borrow shall be obtained from project gravel pit.

Remarks:  
Curve at sta 9+ - Hold outside edge of pavement (111 ft) at 0, to grade lowering inside edge. Reduce super-elevation to 2' toe width of roadway (36').  
Haul in all borrow except where otherwise noted.  
Sta 19+ Construct Approach and Wye, Left.  
In super-elevating curve at sta 25+ hold left edge of pavement (15' Lt of E), to grade shown on profile. Transition for super-elevation at PC of curve shall begin at end of overhead RR bridge and extend for 150 ft.  
Right half sta 34+11 to 35+75. Remove existing pavement.

FED. ROAD DIST. NO.	STATE	N.E.H. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A	1935	3	5

REVISED AS PLANTED, JUNE 25<sup>th</sup> 1937



UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY - UTAH  
 K. C. WRIGHT - CHIEF ENGINEER

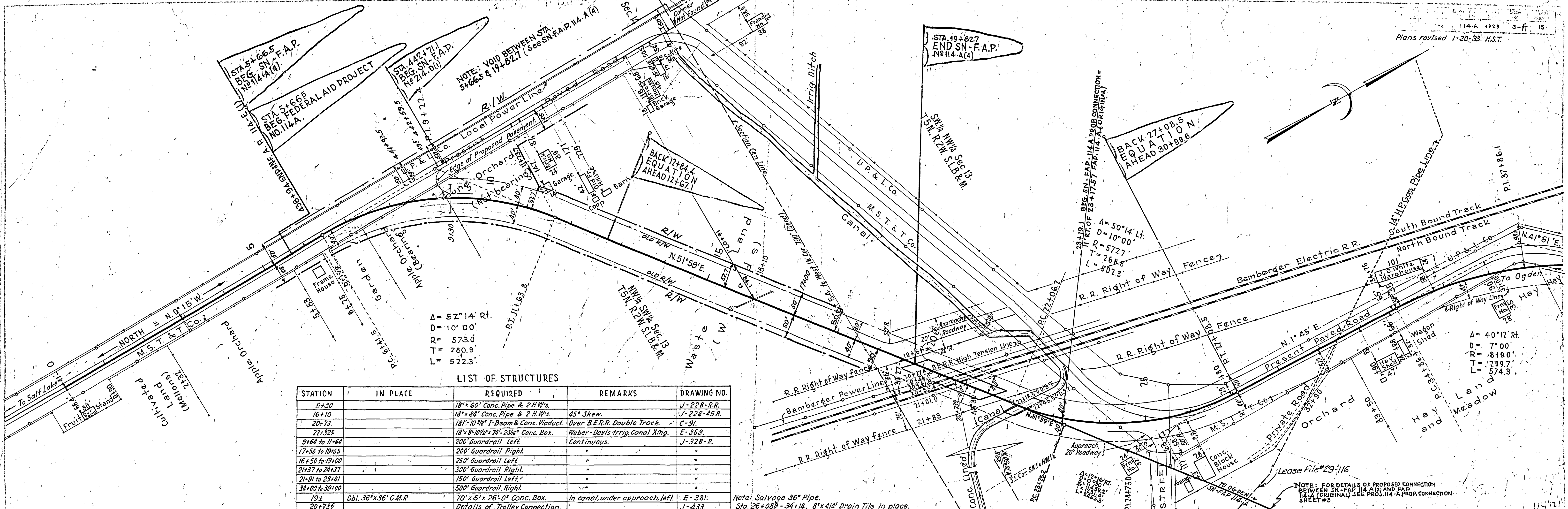
BEAUTIFICATION

DESIGNED BY G. R. BOWEN  
 DRAWN BY H. M. EHMEL  
 CHECKED BY \_\_\_\_\_  
 EXAMINED BY \_\_\_\_\_

SCALE 1" = 100'  
 ISSUED \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 CHIEF DRAFTSMAN

NO. \_\_\_\_\_ DRG. NO. \_\_\_\_\_

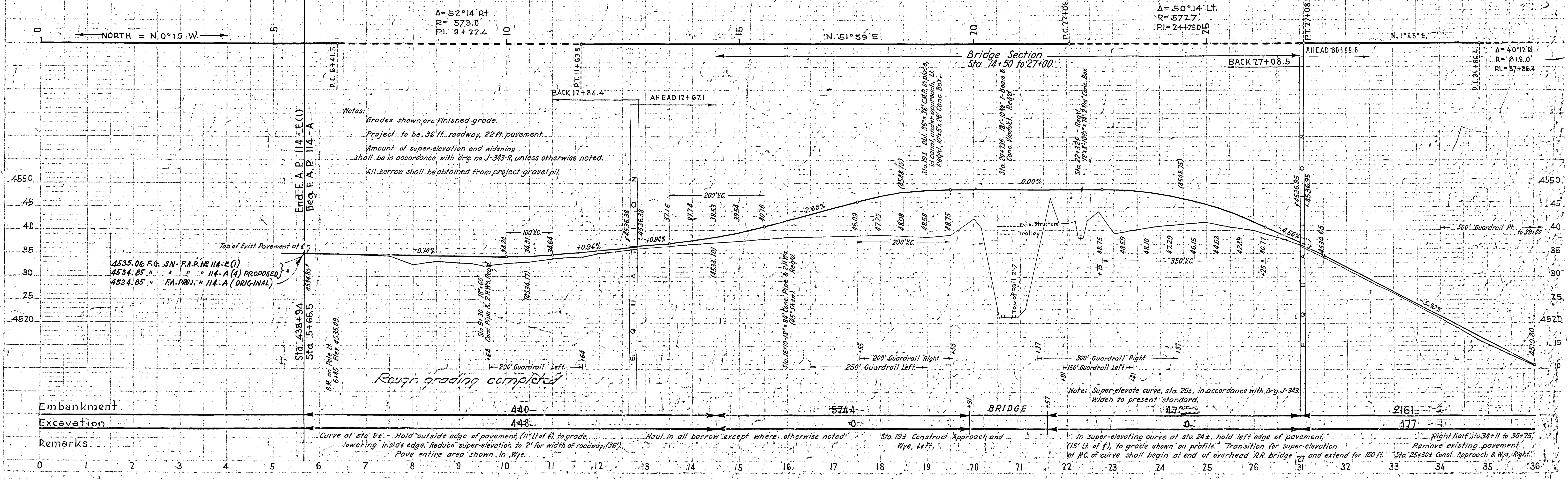
114-A-1929  
E. B. Haynes  
C. W. Weston  
1929  
TRACED  
C. W. Weston  
1939



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.
9+30		18" x 60" Conc. Pipe & 2 H.W.'s		J-228-R.R.
16+10		18" x 84" Conc. Pipe & 2 H.W.'s	45° Skew.	J-228-45.R.
20+73		181' 10 3/8" I-Beam & Conc. Viaduct.	Over B.E.R.R. Double Track.	C-91.
22+32 1/2		18" x 8' 10 1/2" x 74' 2 3/4" Conc. Box.	Weber-Davis Irrig. Canal Xing.	E-359.
9+64 to 11+64		200' Guardrail Left.	Continuous.	J-328-R.
17+55 to 19+65		200' Guardrail Right.		
16+50 to 19+00		250' Guardrail Left.		
21+37 to 24+37		300' Guardrail Right.		
21+91 to 23+41		150' Guardrail Left.		
34+00 to 39+00		500' Guardrail Right.		
19+	Dbl. 36" x 36" C.M.P.	70' x 5' x 26" 0" Conc. Box.	In canal, under approach, left.	E-381.
20+73 1/2		Details of Trolley Connection.		J-433.

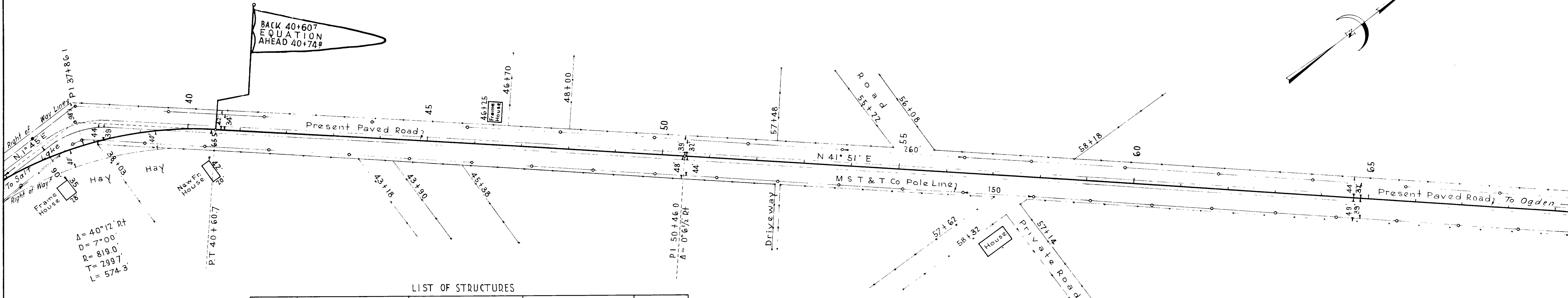
Note: Salvage 36" Pipe. Sta. 26+08 1/2 - 34+14, 8' x 4 1/4" Drain Tile in place.



Notes:  
Grades shown are finished grade.  
Project to be .36 ft. roadway, 22 ft. pavement.  
Amount of super-elevation and widening shall be in accordance with Drg. no. J-343-R, unless otherwise noted.  
All borrow shall be obtained from project gravel pit.

Curve at Sta. 9± - Hold outside edge of pavement, (11" Lt of 6), to grade, lowering inside edge. Reduce super-elevation to 2' for width of roadway, (36').  
Pave entire area shown in Wye.  
Haul in all borrow except where otherwise noted.  
Sta. 19± Construct Approach and Wye, Left.  
In super-elevating curve at Sta. 24±, hold left edge of pavement (15" Lt of 6), to grade shown on profile. Transition for super-elevation at P.C. of curve shall begin at end of overhead R.R. bridge and extend for 150 ft.  
Right half Sta. 34+11 to 35+75. Remove existing pavement at Sta. 25+30± Const. Approach & Wye, Right.

NOTE BOOK  
 PLANNING CHECKED  
 C. A. WASH  
 1929  
 PLOTTED  
 C. M. GARDNER  
 1929  
 T. P. S. C. E. D.

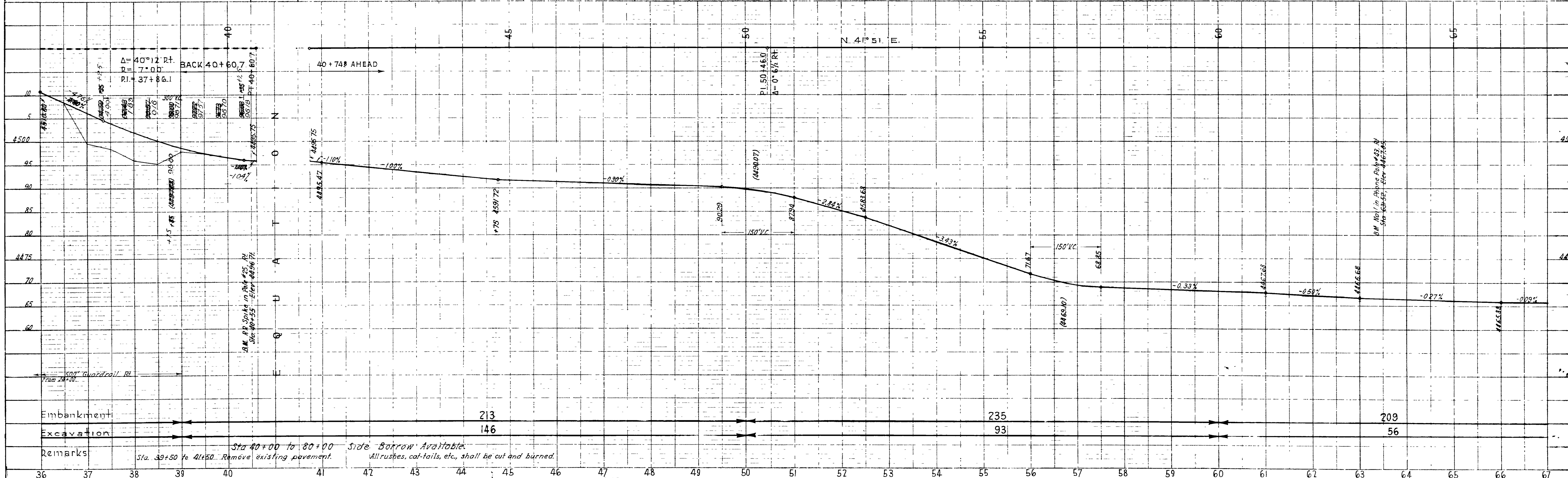


$\Delta = 40^\circ 12' \text{ RT}$   
 $D = 7^\circ 00'$   
 $R = 819.0'$   
 $T = 299.7'$   
 $L = 574.3'$

LIST OF STRUCTURES

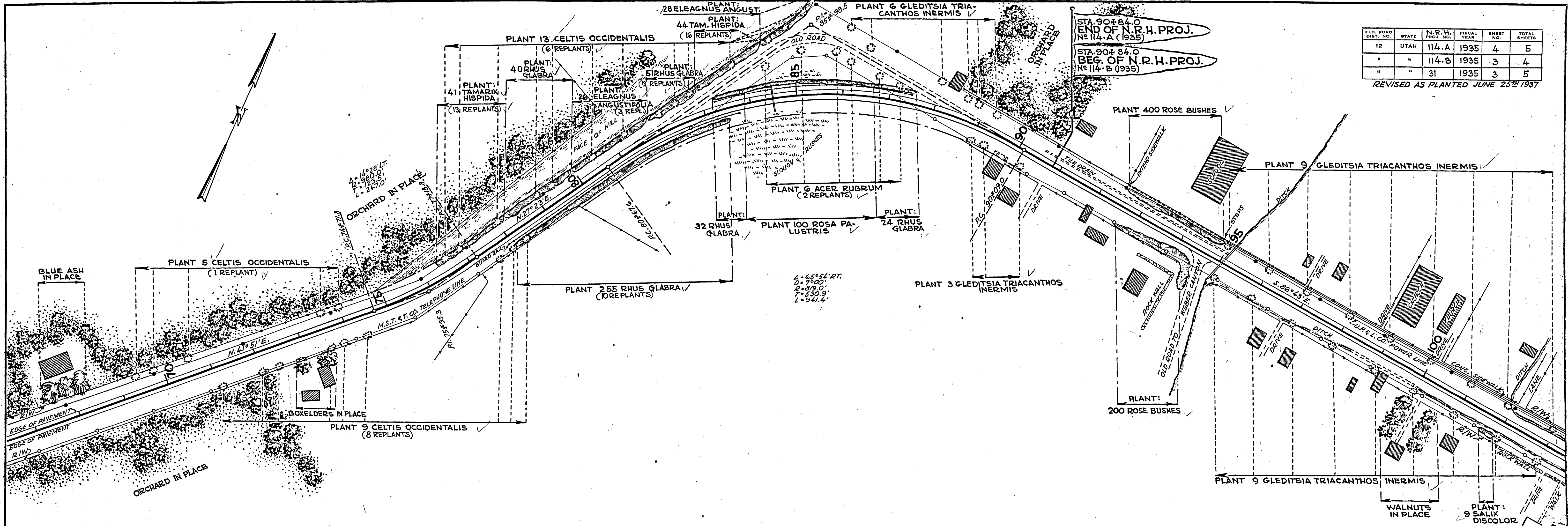
STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO
38+14 to 40+74		190' Guard Rail, Left		J 328 A

NOTE BOOK  
 PLANNING CHECKED  
 C. A. WASH  
 1929  
 PLOTTED  
 C. M. GARDNER  
 1929  
 T. P. S. C. E. D.



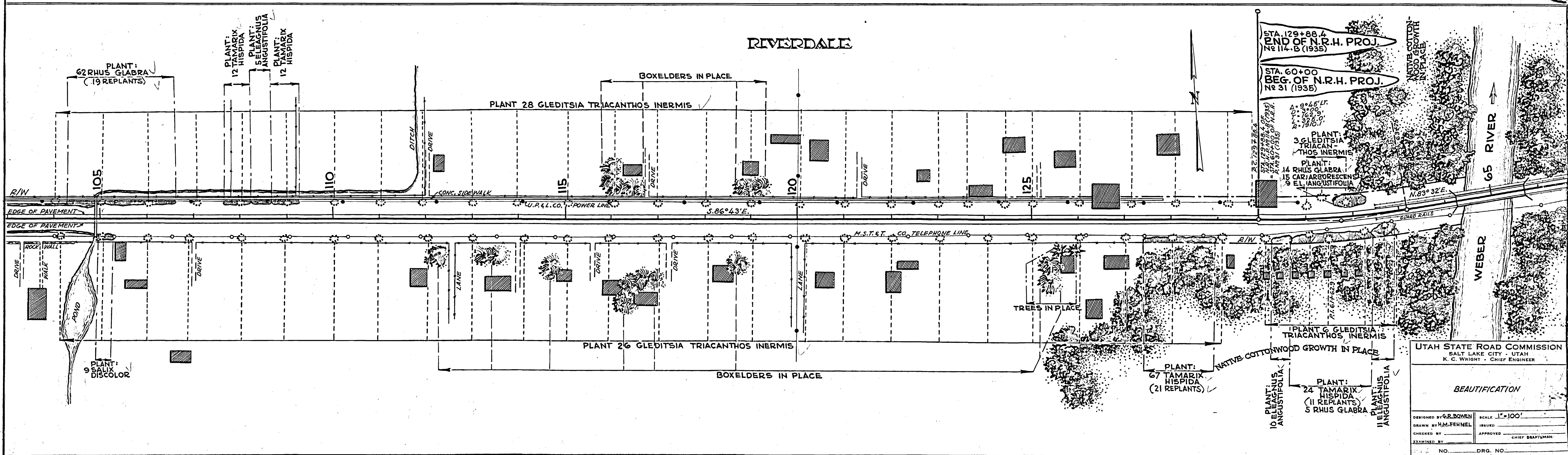
Embankment 213 235 209  
 Excavation 146 93 56

Remarks: Sta. 39+50 to 41+50. Remove existing pavement. Side Borrow Available. All rushes, cat-tails, etc., shall be cut and burned.



FED. ROAD DIST. NO.	STATE	N.R.H. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114-A	1935	4	5
"	"	114-B	1935	3	4
"	"	31	1935	3	5

REVISED AS PLANTED JUNE 25<sup>TH</sup> 1937



UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY - UTAH  
 K. C. WRIGHT - CHIEF ENGINEER

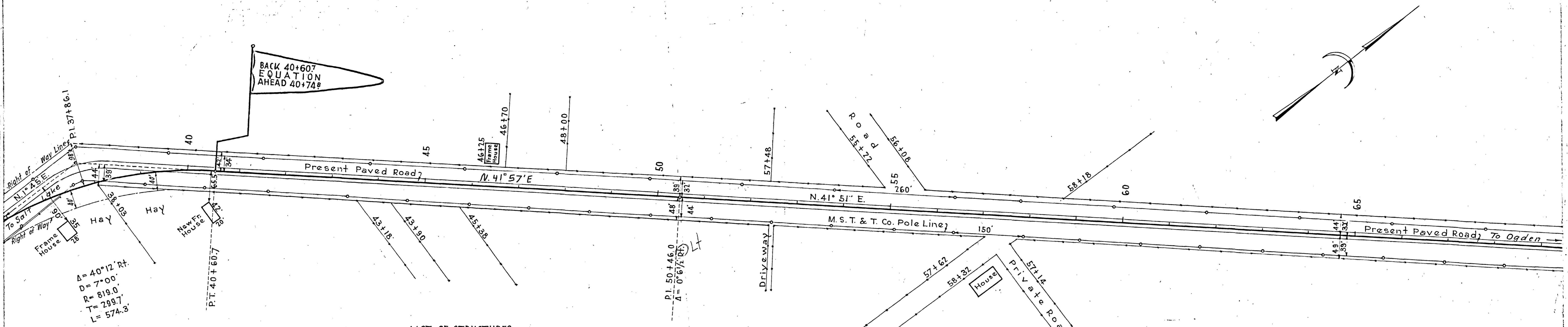
BEAUTIFICATION

DESIGNED BY G.R. BOWEN  
 DRAWN BY H.M. FEHREL  
 CHECKED BY  
 EXAMINED BY

SCALE 1" = 100'  
 ISSUED  
 APPROVED  
 CHIEF DRAFTSMAN

NO. \_\_\_\_\_ DRG. NO. \_\_\_\_\_

E. B. Payne 1929  
 C. H. Washburn 1929  
 C. M. Goodliffe 1929  
 TRACED

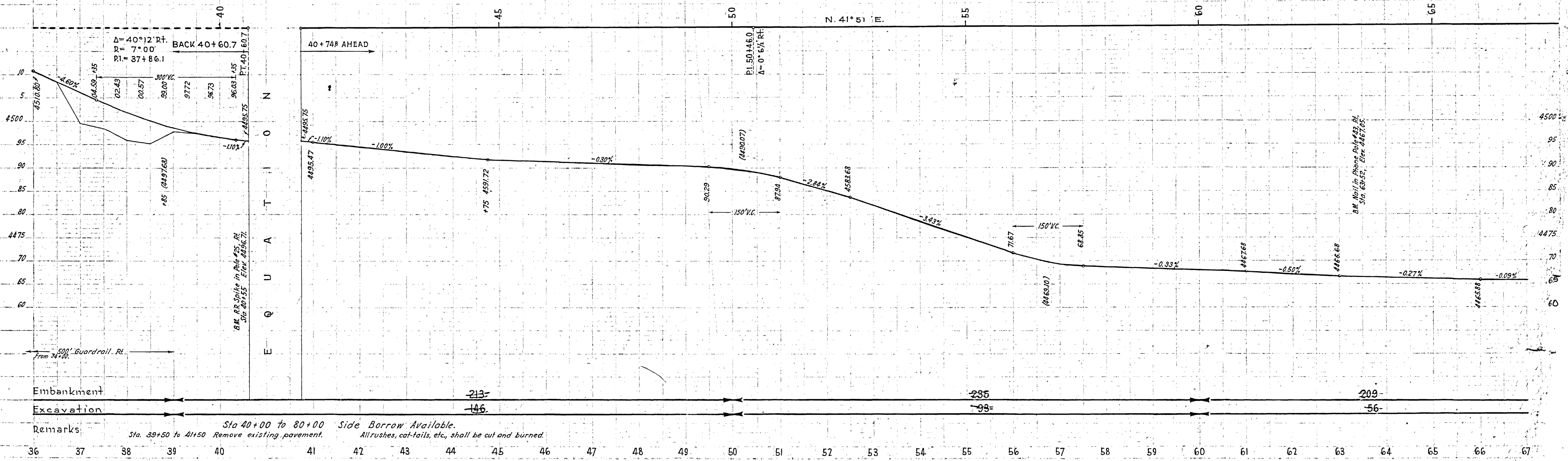


$\Delta = 40^\circ 12' \text{ Rt.}$   
 $D = 7^\circ 00'$   
 $R = 819.0$   
 $T = 299.7$   
 $L = 574.3'$

LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.

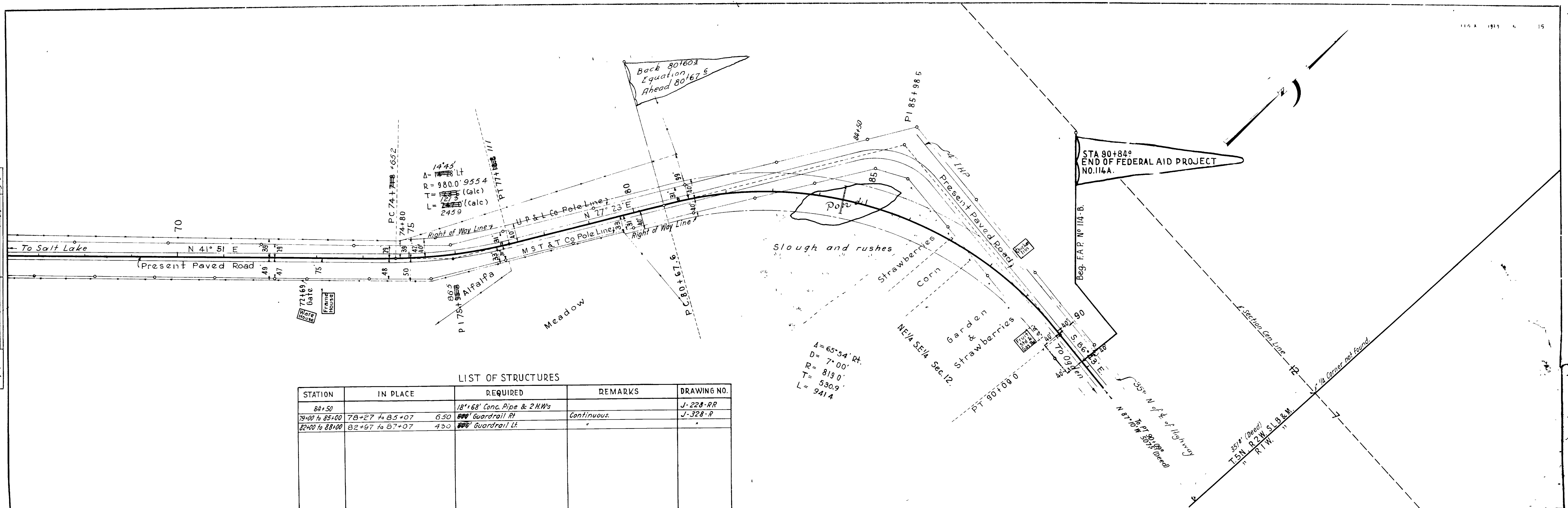
W. J. & D. W. 1929  
 1707  
 5000



Sta 40+00 to 80+00 Side Borrow Available.  
 Remove existing pavement.  
 All rushes, cat-tails, etc., shall be cut and burned.

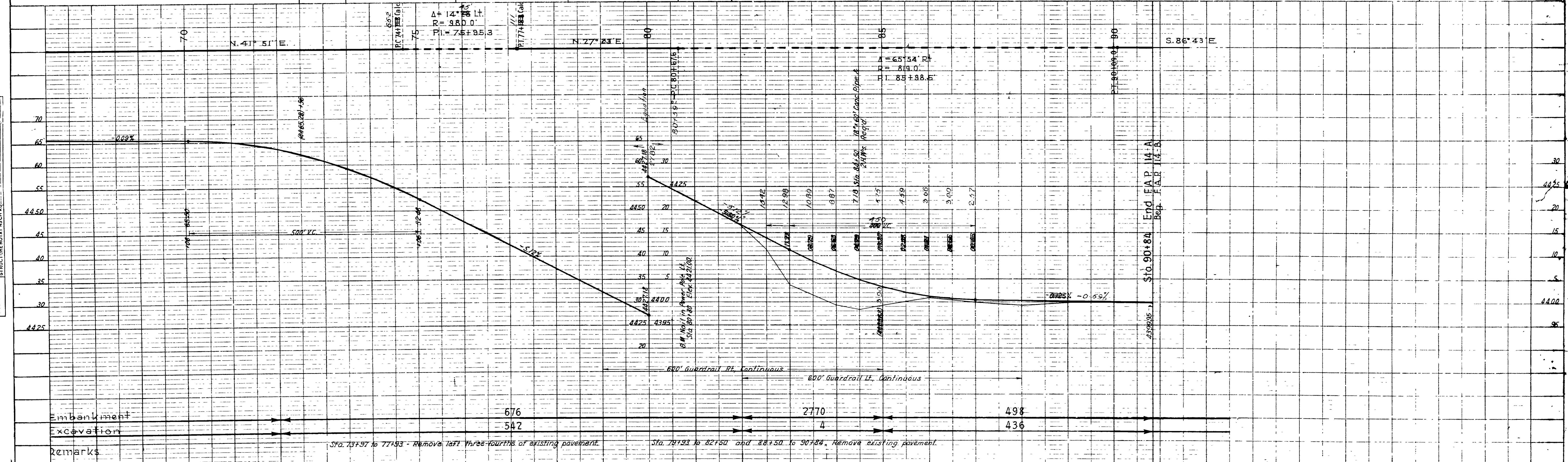
PLOTTED  
 ALIGNMENT CHECKED  
 NOTE BOOK  
 NO. 2027  
 DATE  
 1923

PLOTTED  
 GRADES CHECKED  
 NOTE BOOK  
 NO. 2027  
 DATE  
 1923



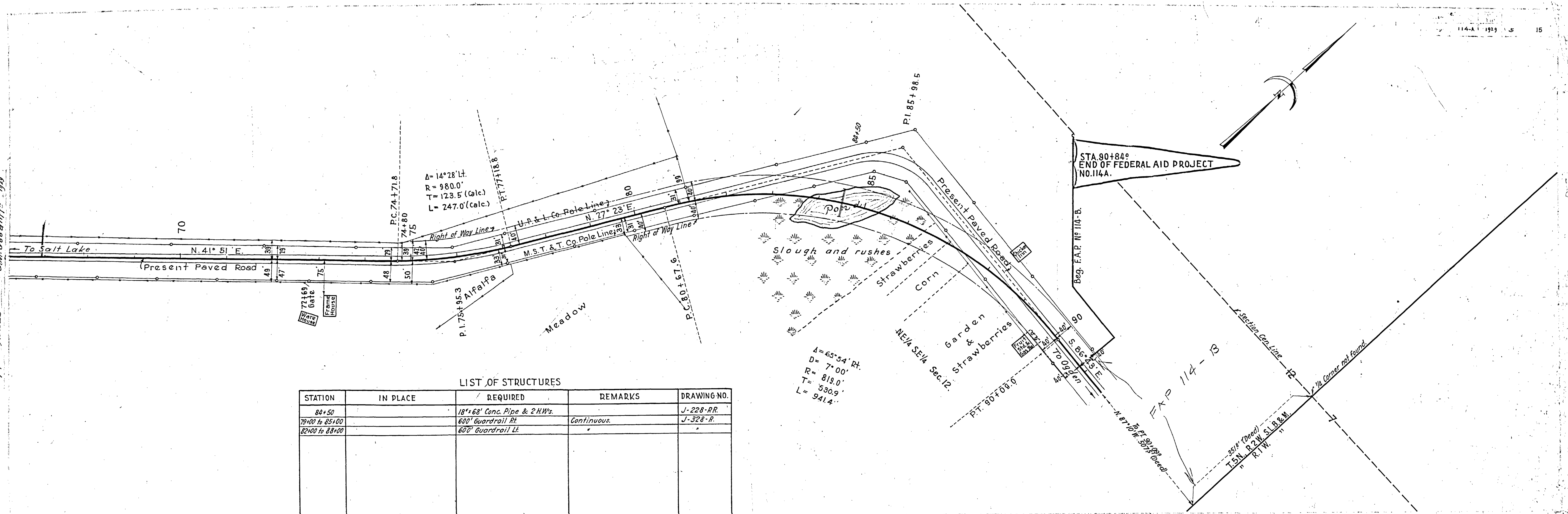
LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.
84+50		18" 68' Conc. Pipe & 2 H.W's		J-228-RR
79+00 to 85+00	78+27 to 85+07	650' 800' Guardrail Rt	Continuous.	J-328-R
82+00 to 88+00	82+97 to 87+07	430' 800' Guardrail Lt		



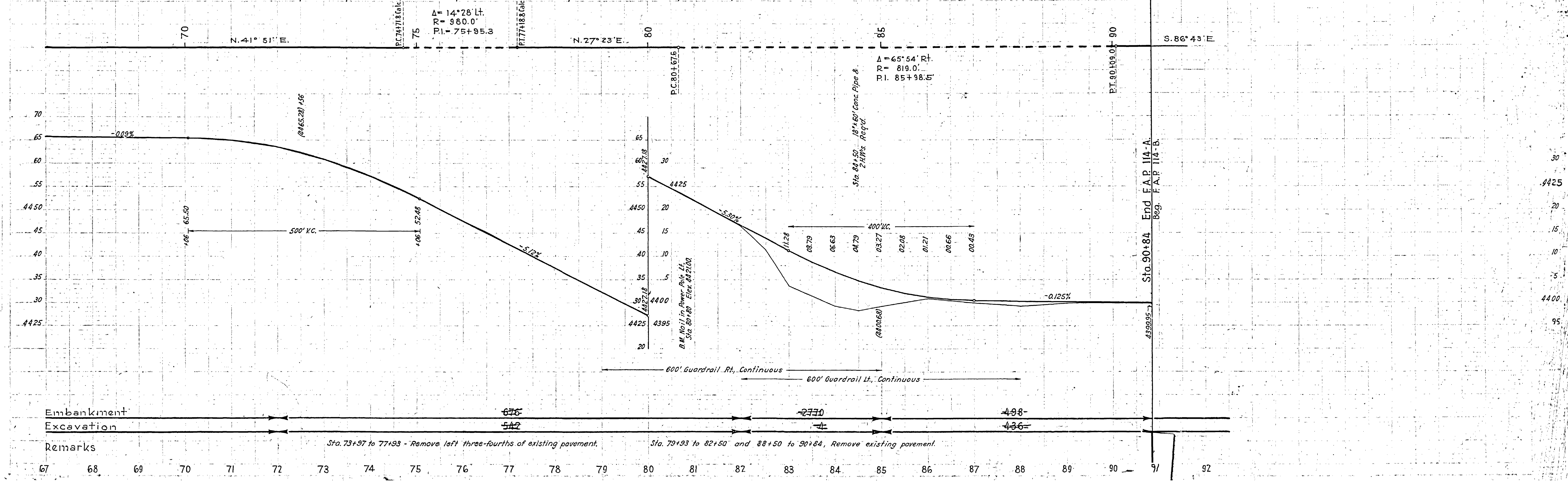


F.B. Haynes 1919  
 F.C. Haynes 1919  
 C.A. West 1919  
 C.M. Goodliff 1919  
 1919-1920 RACED  
 1919-1920 RACED

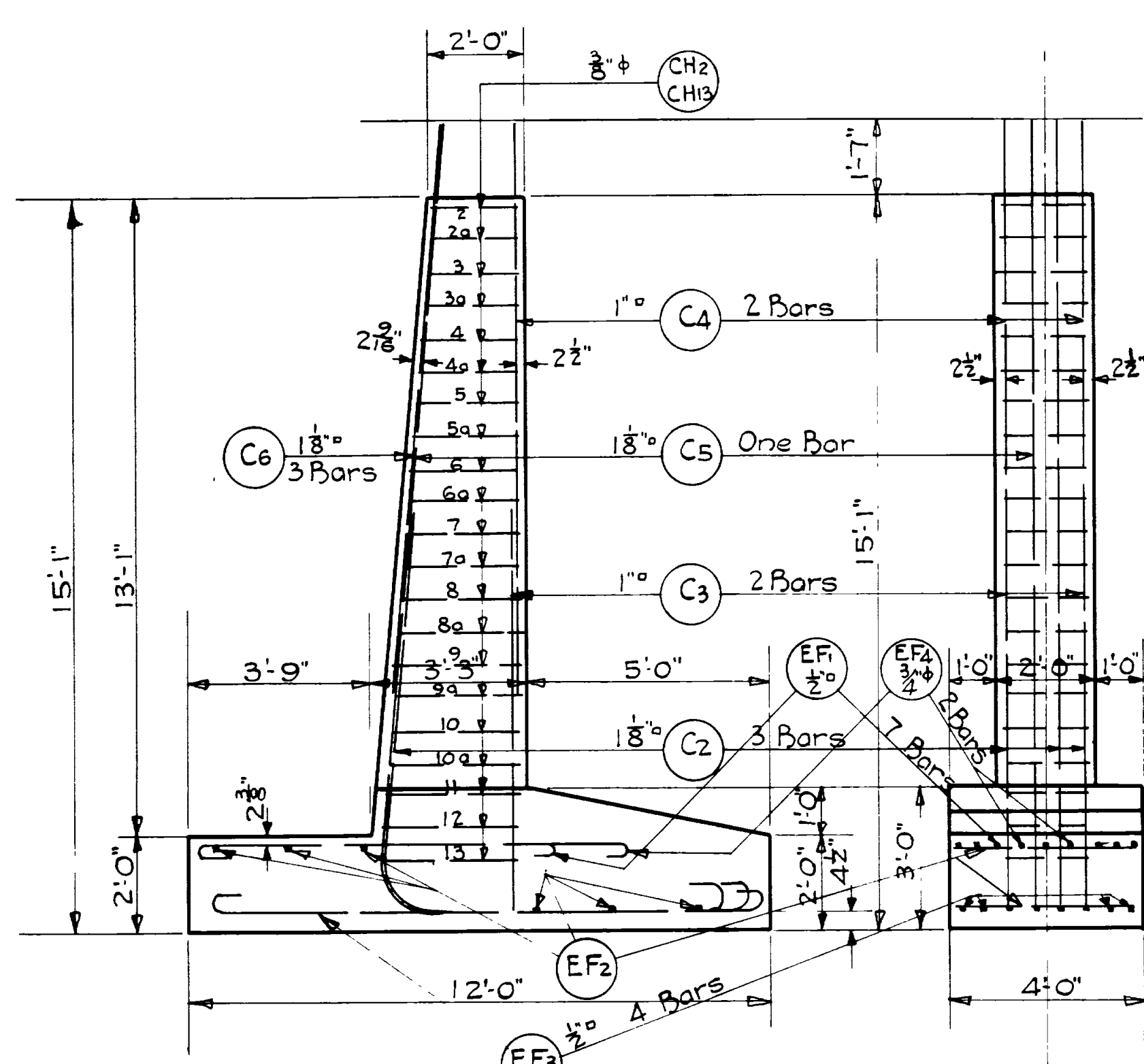


**LIST OF STRUCTURES**

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.
84+50		18" x 68" Conc. Pipe & 2 H.W.s.		J-228-RR.
79+00 to 85+00		600' Guardrail Rt.	Continuous.	J-328-R.
82+00 to 88+00		600' Guardrail Lt.		



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114			

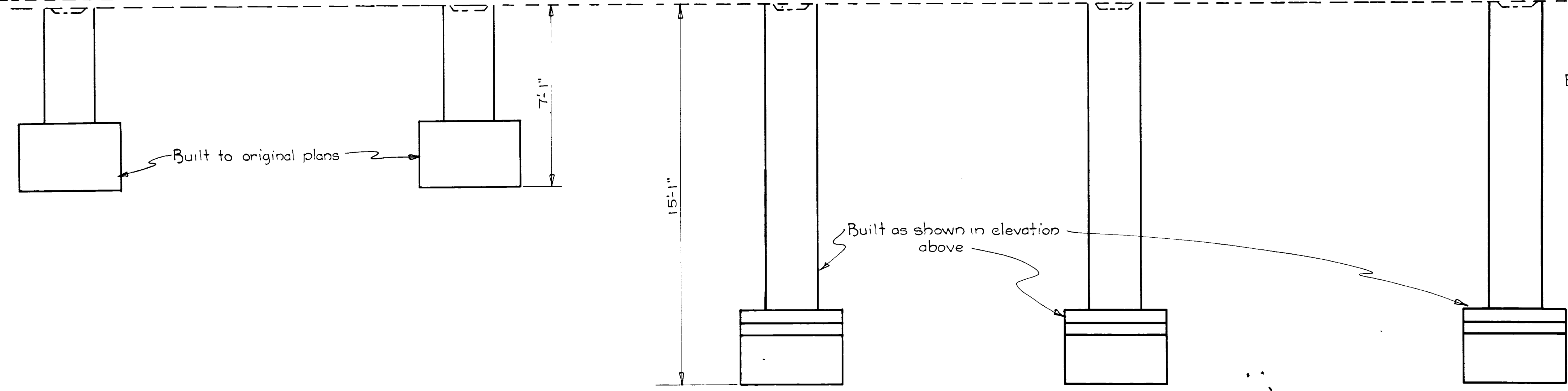
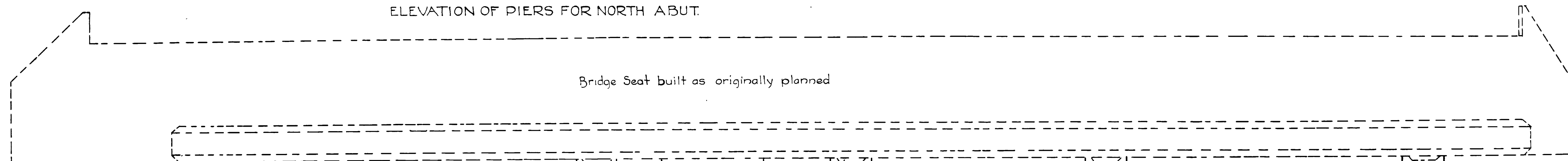


Maximum Toe Pressure 4400# per sq. ft  
ELEVATION OF PIERS FOR NORTH ABUT.

Mark	Location	Size	Length	No Bars	Total Length	Sketch	O to O
C4	Front Face Splice to C3	1"Ø	11'-9"	6	70'-6"		
C5	Rear Face	1 1/8"Ø	24'-6"	3	73'-6"		
C6	" " Splice to C2	1 1/8"Ø	11'-9"	9	105'-9"		
CH2a	Column Hoops	3/8"Ø	7'-11"	3	23'-9"		
CH3a	" "	" "	8'-2"	3	24'-6"	A = 1'-11 1/2"	
CH4a	" "	" "	8'-5"	3	25'-3"	= 2'-1"	
CH5a	" "	" "	8'-7"	3	25'-9"	= 2'-2"	
CH6a	" "	" "	8'-10"	3	26'-6"	= 2'-3 1/2"	
CH7a	" "	" "	9'-1"	3	27'-3"	= 2'-5"	
CH8a	" "	" "	9'-4"	3	28'-0"	= 2'-6 1/2"	
CH9a	" "	" "	9'-7"	3	28'-9"	= 2'-8"	
CH10a	" "	" "	9'-9"	3	29'-3"	= 2'-9"	
CH11	" "	" "	9'-10"	3	29'-6"	= 2'-9 1/2"	
CH12	" "	" "	9'-11"	3	29'-9"	= 2'-10"	
CH13	" "	" "	10'-1"	3	30'-3"	= 2'-11"	
EF3	Bottom of Fig. Long.	3/4"Ø	10'-3"	12	123'-0"		9'-2"
EF4	Top " " "	3/4"Ø	10'-9"	6	64'-6"		9'-1 1/2"

328'-6" 3/8"Ø @ 0.38# = 124.8#  
 123'-0" 1/2"Ø @ 0.86# = 105.2  
 64'-6" 3/4"Ø @ 1.52# = 98.0  
 70'-6" 1"Ø @ 3.44# = 242.5  
 179'-3" 1 1/8"Ø @ 4.35# = 779.7#  
 Total = 1350.2#

Additional Concrete = 6 Cu. Yds.  
 Note: Steel is in addition to that shown on Sheet #1



REVISIONS TO NORTH ABUT.

REVISIONS TO EAST PIERS OF NORTH ABUTMENT

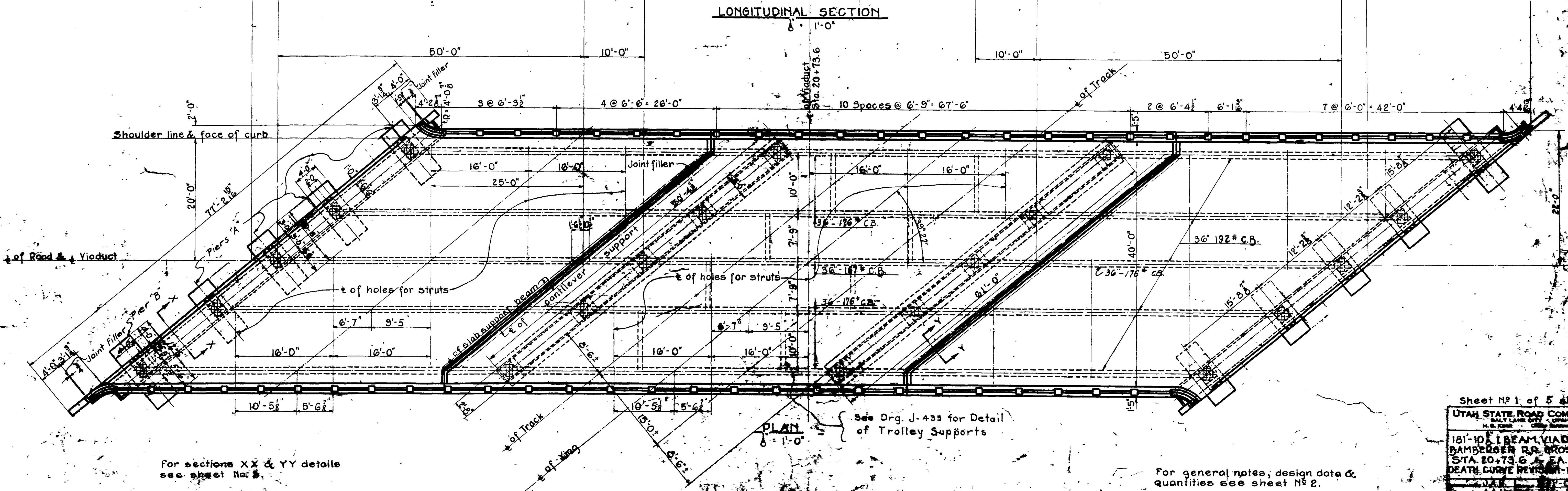
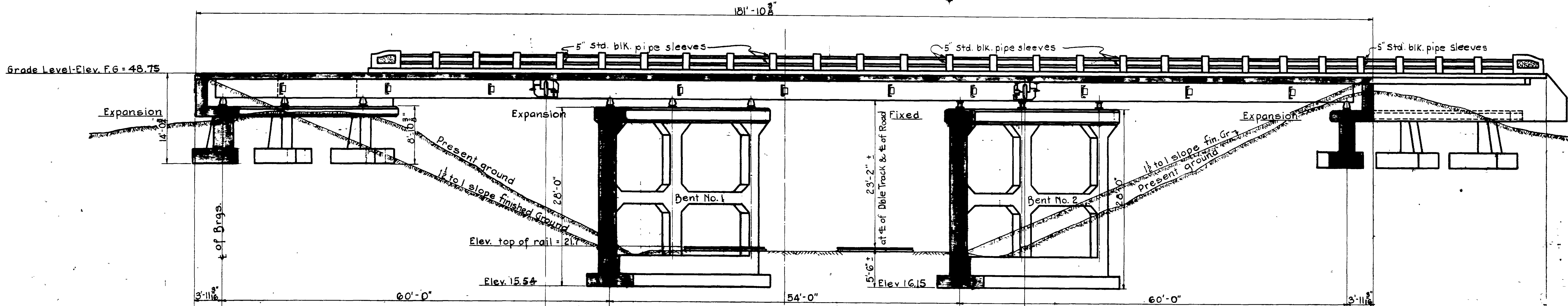
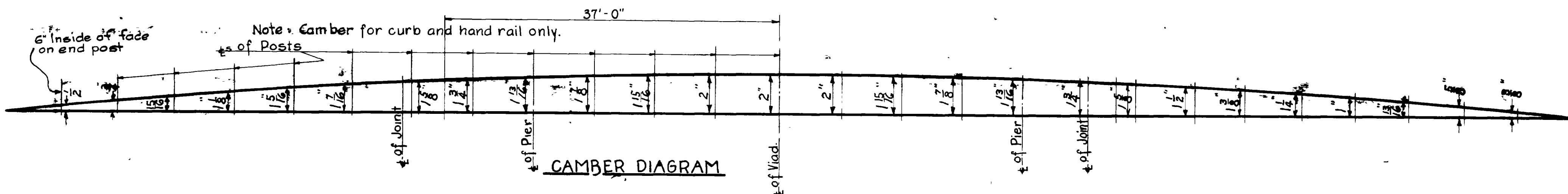
UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY - UTAH  
 H. S. KERR - CHIEF ENGINEER

181'-108" I-BEAM VIADUCT  
 BAMBERGER R.R. CROSSING  
 STA. 20+73.6 F.A.P. 114  
 DEATH CURVE REVISION - WEBER CO.

DESIGNED BY: \_\_\_\_\_ SCALE: 3/8" = 1'-0"  
 DRAWN BY: \_\_\_\_\_ ISSUED: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ APPROVED: \_\_\_\_\_  
 EXAMINED BY: \_\_\_\_\_ CHIEF ENGINEER

BRIDGE NO. 51 DRG. NO. C-91

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	F.A.R. 114			



For sections XX & YY details see sheet No. 5.

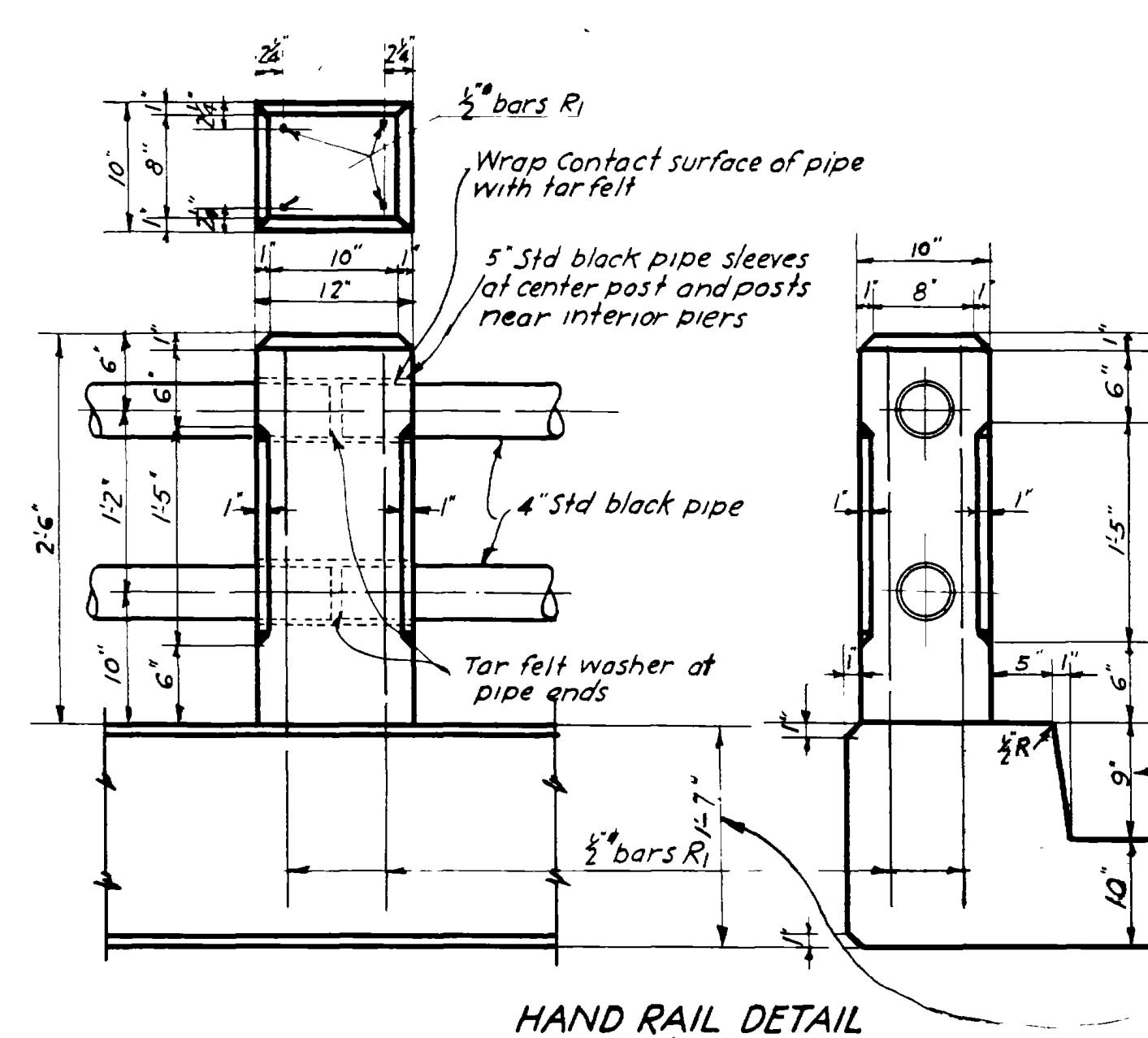
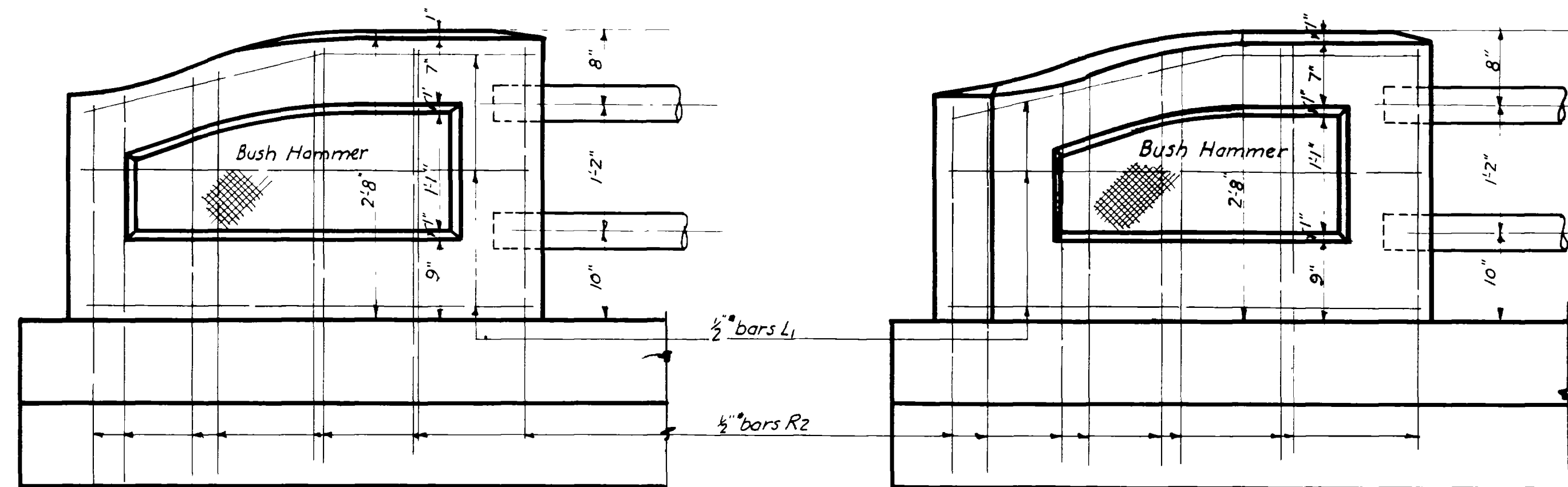
See Drg. J-433 for Detail of Trolley Supports

For general notes, design data & quantities see sheet No. 2.

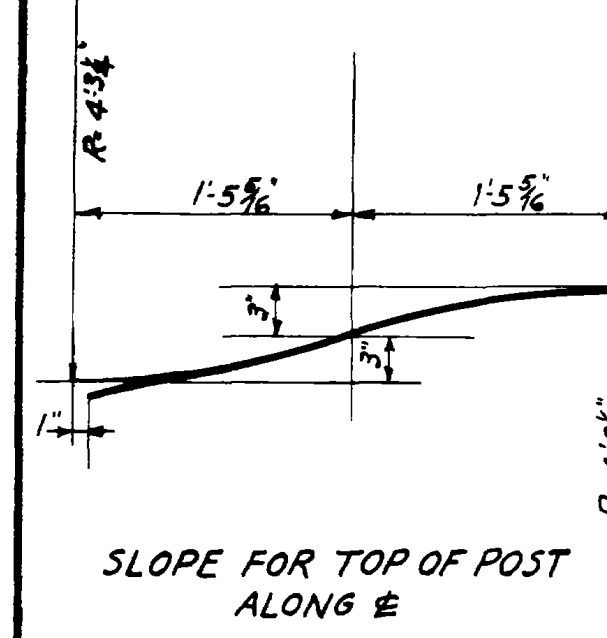
Sheet No. 1 of 5 sheets  
 UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 181-10 I BEAM VIADUCT  
 CAMBER R.R. CROSSING  
 STA. 20+73.6 F.A.R. 114  
 DEATH CURVE REVISION - W-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114			

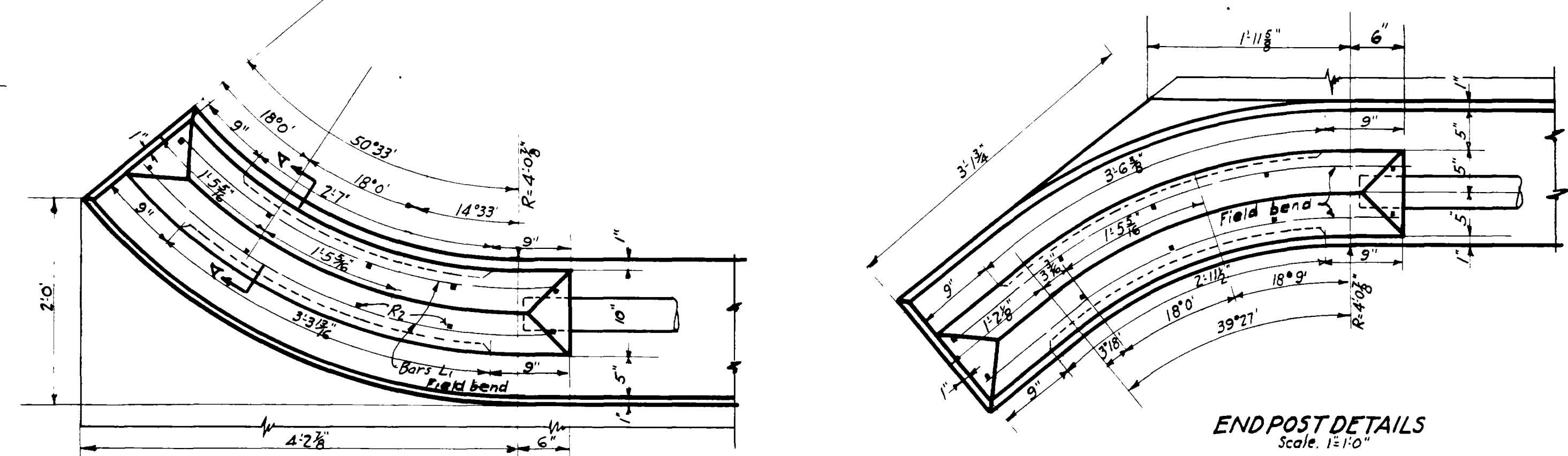
SECTION A-A  
Scale 1"=1'0"



HAND RAIL DETAIL  
Scale 1"=1'0"

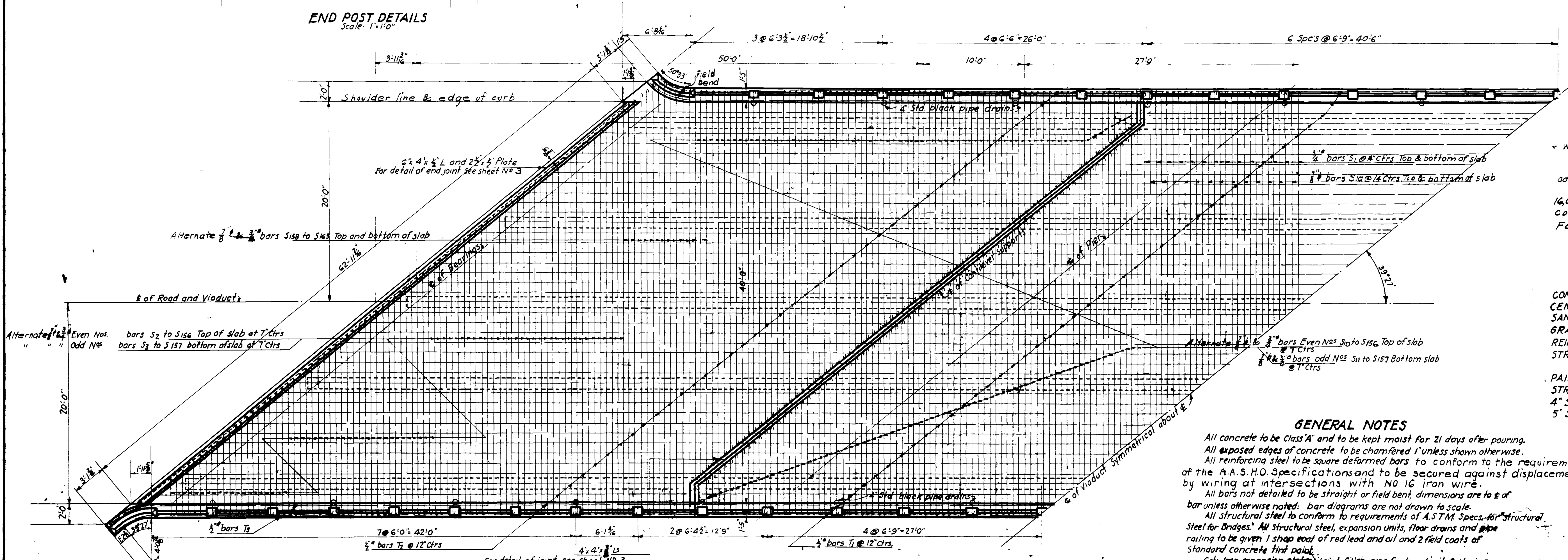


SLOPE FOR TOP OF POST  
ALONG C



ENDPOST DETAILS  
Scale 1"=1'0"

END POST DETAILS  
Scale 1"=1'0"



PLAN  
Scale 1/4"=1'0"

**DESIGN DATA**  
 Live Load, 4-H-15 Truck train loading with 30% impact allowance.  
 Dead Load: Concrete, 150 per Cu Ft.  
 Wearing Surface: 3/8" of concrete cast with slab with an additional allowance of 15 per sq. ft. for future surfacing.  
 Allowable stresses: Reinforcing steel in Concrete, 16,000 per sq. in., Concrete, 650 per sq. in. in compression. Structural steel for beams, For twice the live load, 24,000 per sq. in.

**QUANTITIES**

CONCRETE - CLASS "A"	517	CU YDS.
CEMENT	9385	SACKS
SAND	236	CU YDS.
GRAVEL	472	CU YDS.
REINFORCING STEEL	9810	LBS.
STRUCTURAL STEEL AND EXPANSION UNITS	203400	LBS.
PAINT	60	GALS.
STRUCTURAL EXCAVATION	400	CU YDS.
4" STD. BLACK PIPE	717	LIN. FT.
5" STD. BLACK PIPE	20	LIN. FT.

**GENERAL NOTES**

All concrete to be Class "A" and to be kept moist for 21 days after pouring.  
 All exposed edges of concrete to be chamfered 1" unless shown otherwise.  
 All reinforcing steel to be square deformed bars to conform to the requirements of the A.A.S.H.O. Specifications and to be secured against displacement by wiring at intersections with No 16 iron wire.  
 All bars not detailed to be straight or field bent, dimensions are to center of bar unless otherwise noted. Bar diagrams are not drawn to scale.  
 All structural steel to conform to requirements of A.S.T.M. Specs. for Structural Steel for Bridges. All structural steel, expansion units, floor drains and pipe railing to be given 1 shop coat of red lead and oil and 2 field coats of standard concrete tint paint.  
 Galv. iron expansion plates, joint filler, pipe for hand rail & drains, and copper flashing to be furnished by contractor.  
 All work to be finished to elevations given by engineer.

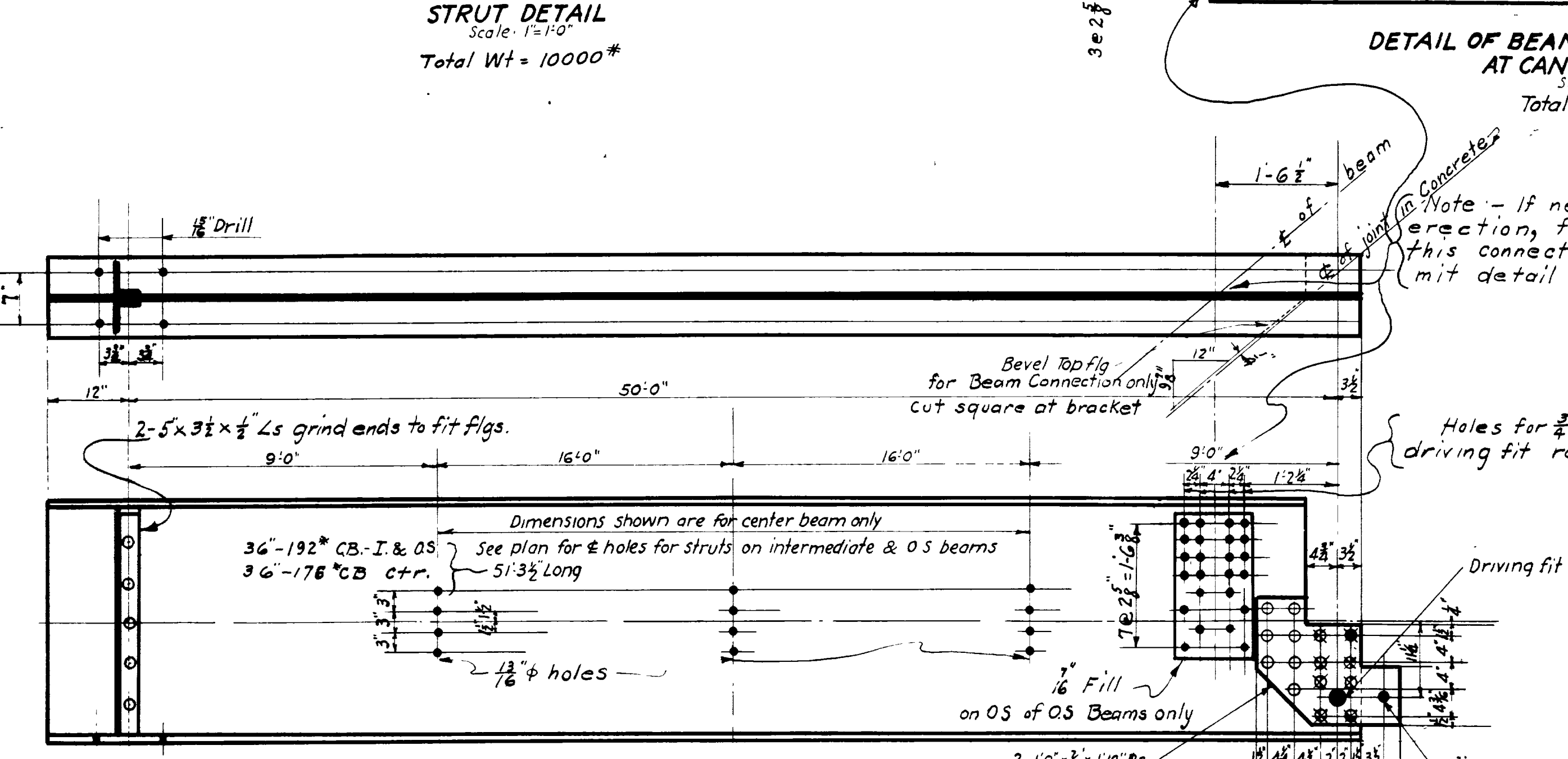
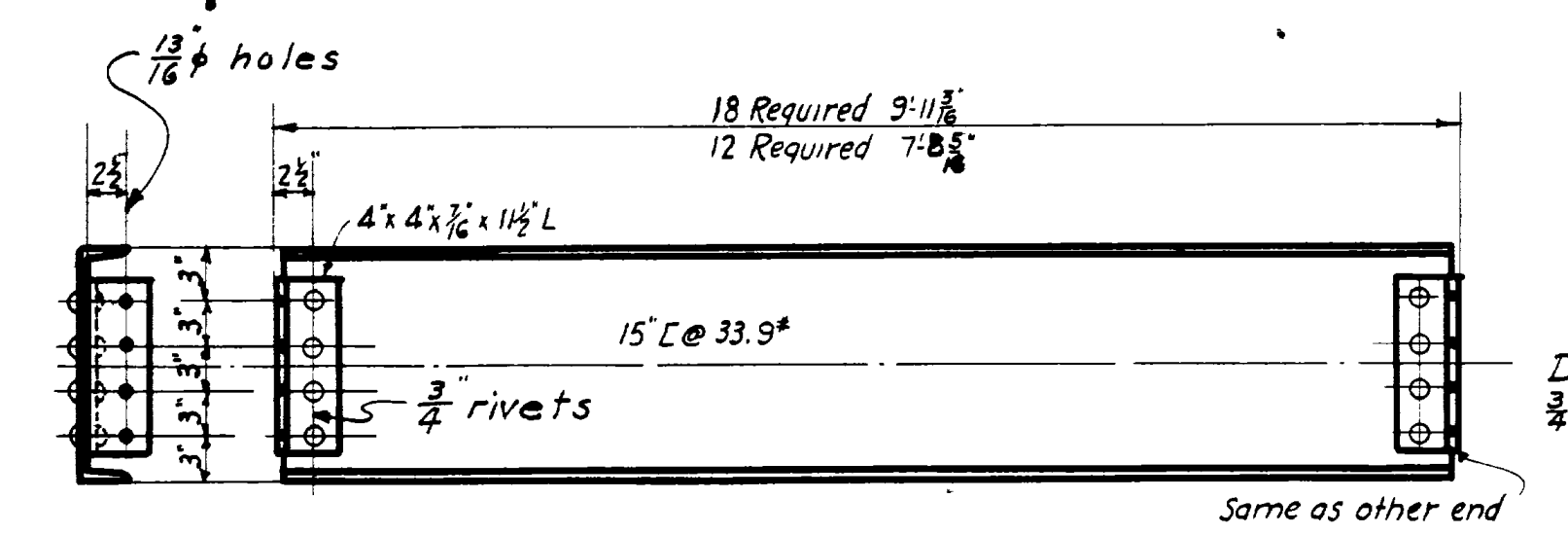
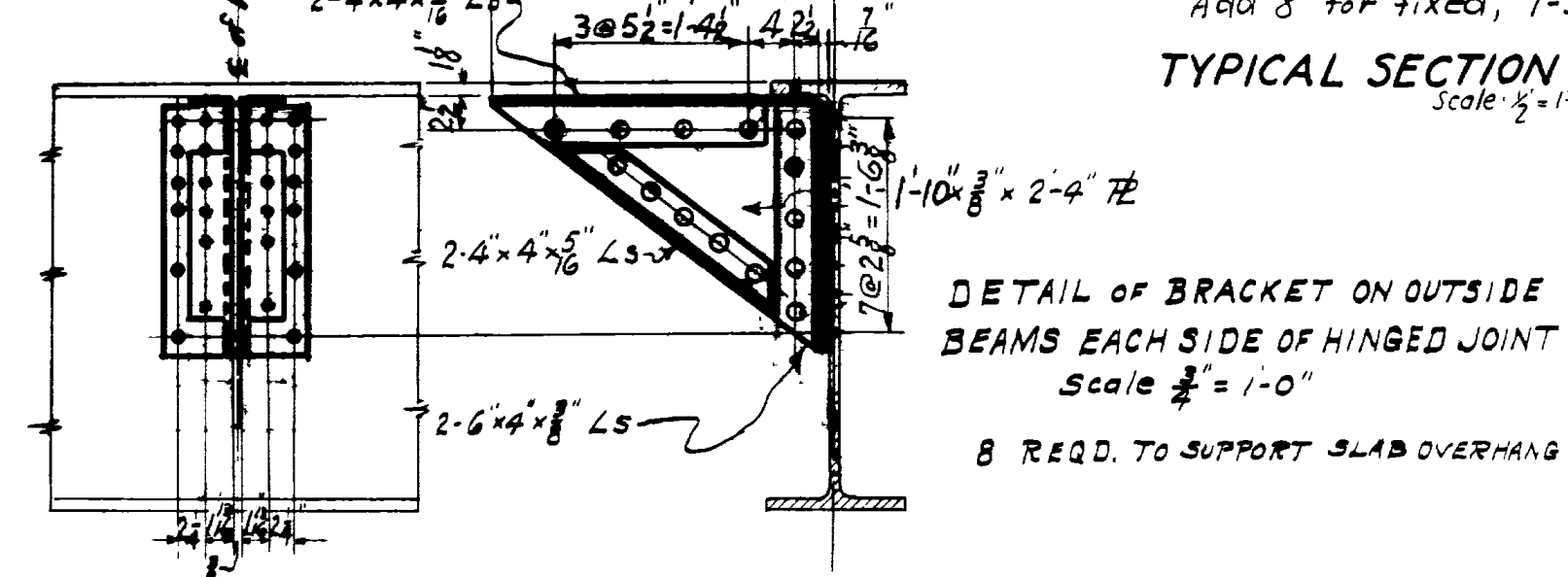
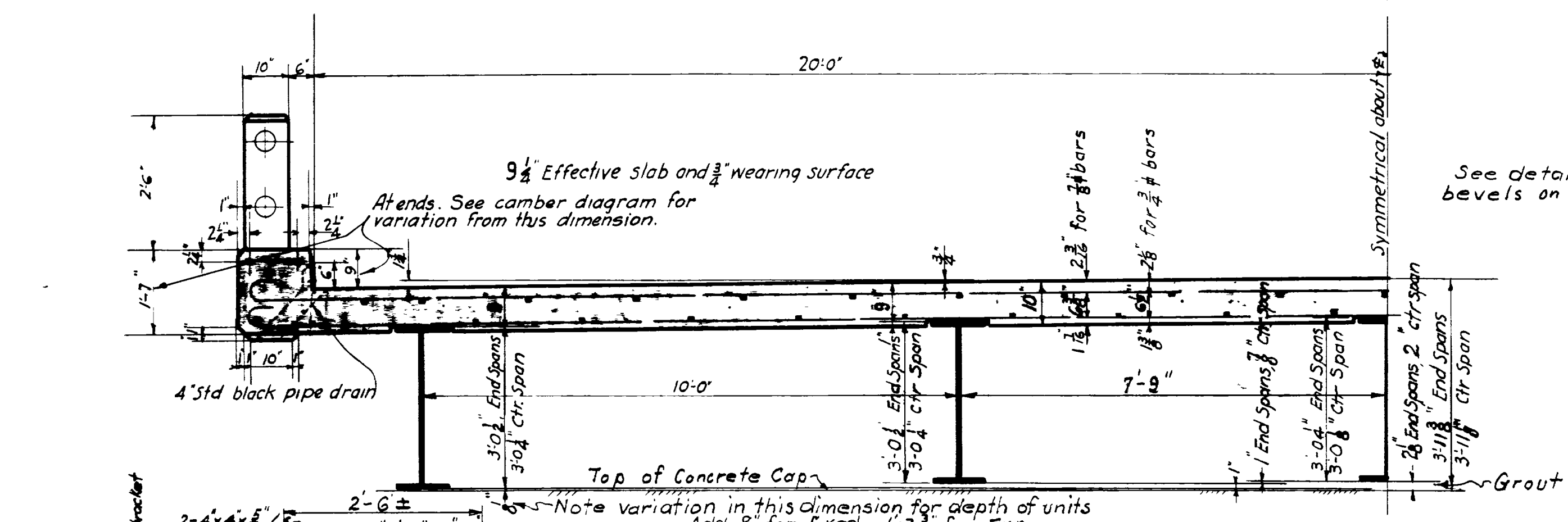
Sheet 2 of 5 Sheets

UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY - UTAH  
 H. E. KEENE - Chief Engineer

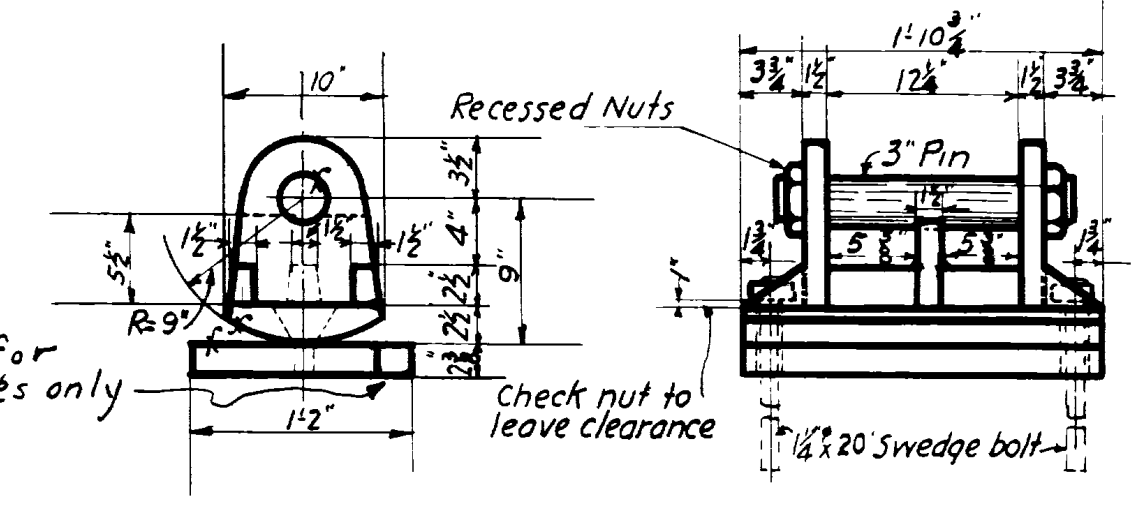
18'-10" I-BEAM VIADUCT  
 BAMBERGER R.R. TRACKS - 114  
 STA. 20+736 - 20+746

WEBER CO.

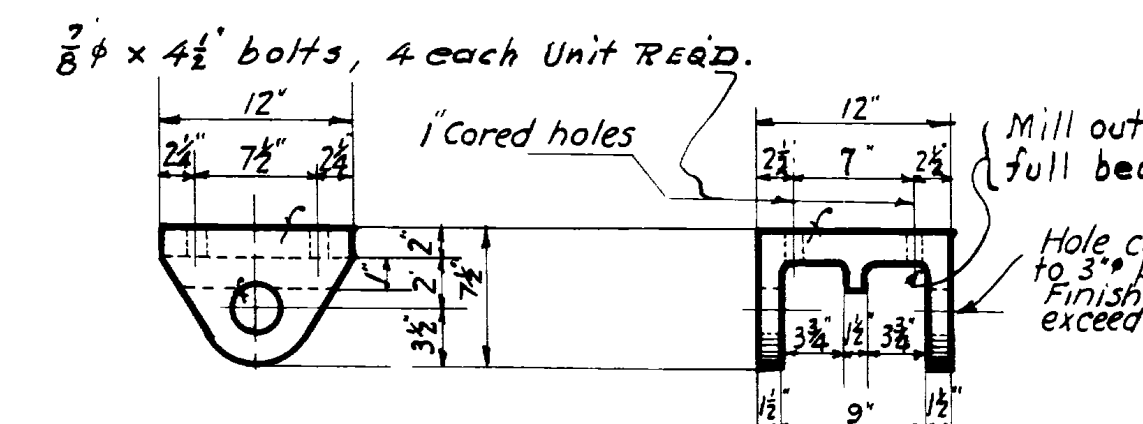
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	114			



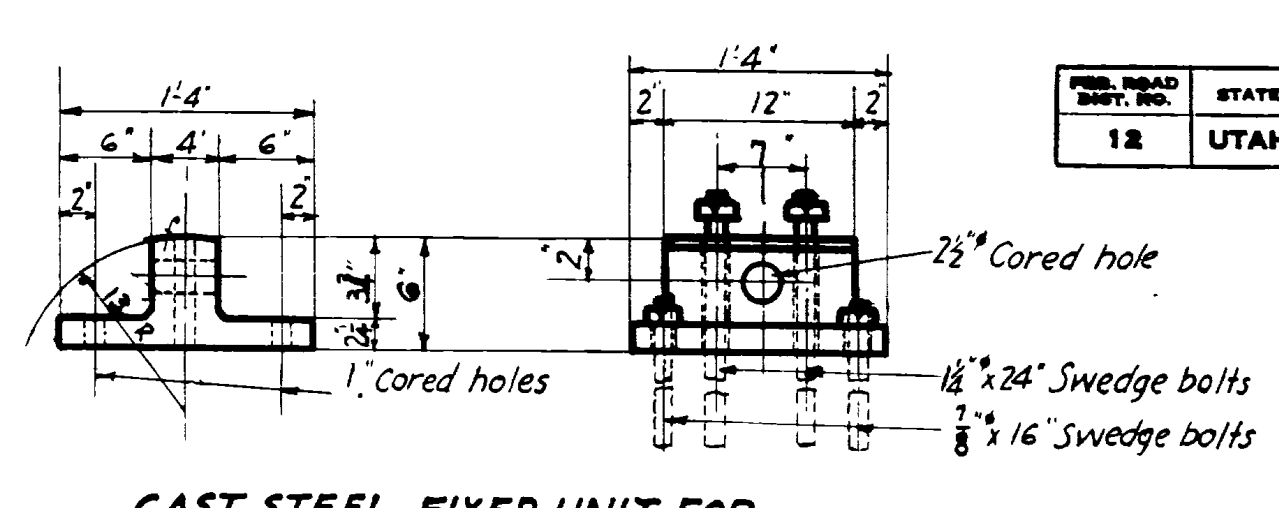
**END SPAN BEAM DETAIL**  
 2 REQUIRED AS SHOWN - 4 REQUIRED AS NOTED - 1 - 4 REQ. A.N. - OS.  
 Scale 3/4"=1'-0"  
 Total Wt = 98,100\*



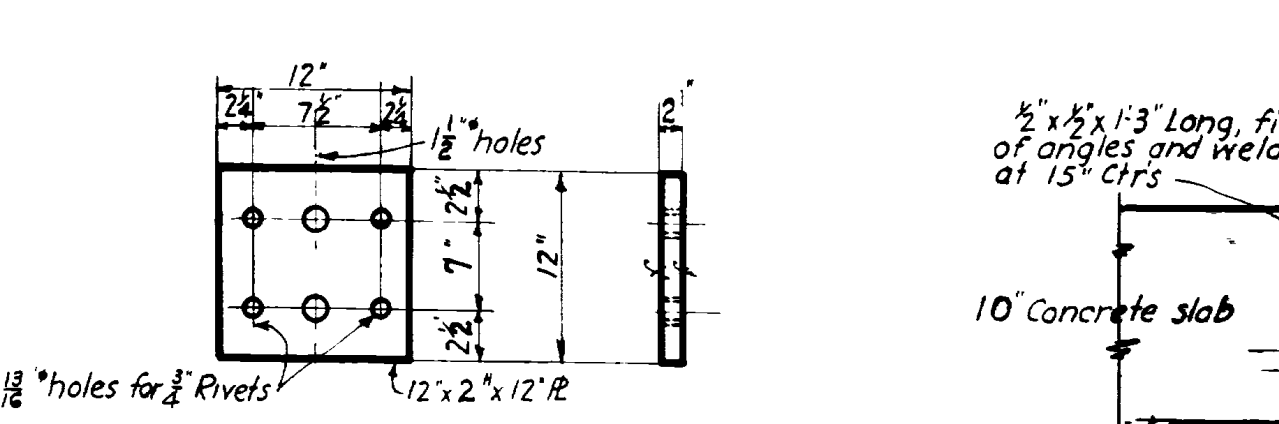
**CAST STEEL ROCKER & MASONRY PLATE**  
 TWO ENDS AND ONE INTERMEDIATE PIER  
 Wt. of 1 = 470\* 15 REQUIRED Total Wt 7050\*  
 Scale 1/2"=1'-0"



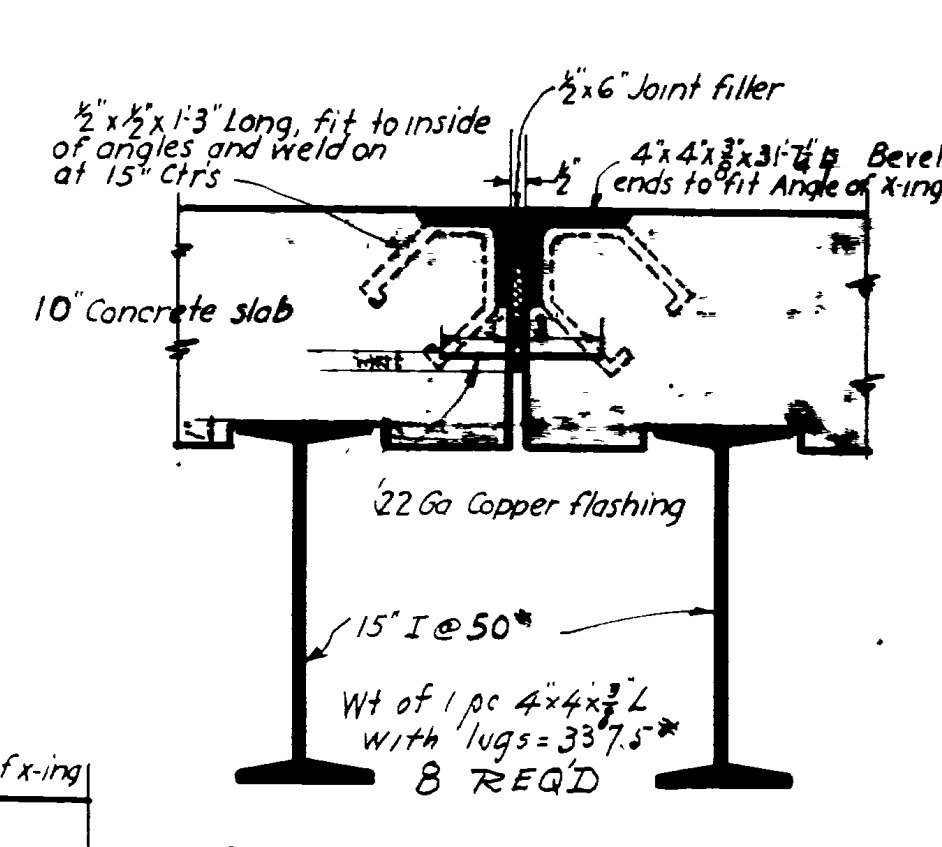
**CAST STEEL HINGE**  
 EXPANSION UNIT  
 Wt. of 1 = 140\* 15 REQUIRED Total Wt. 2100\*  
 Scale 1/2"=1'-0"



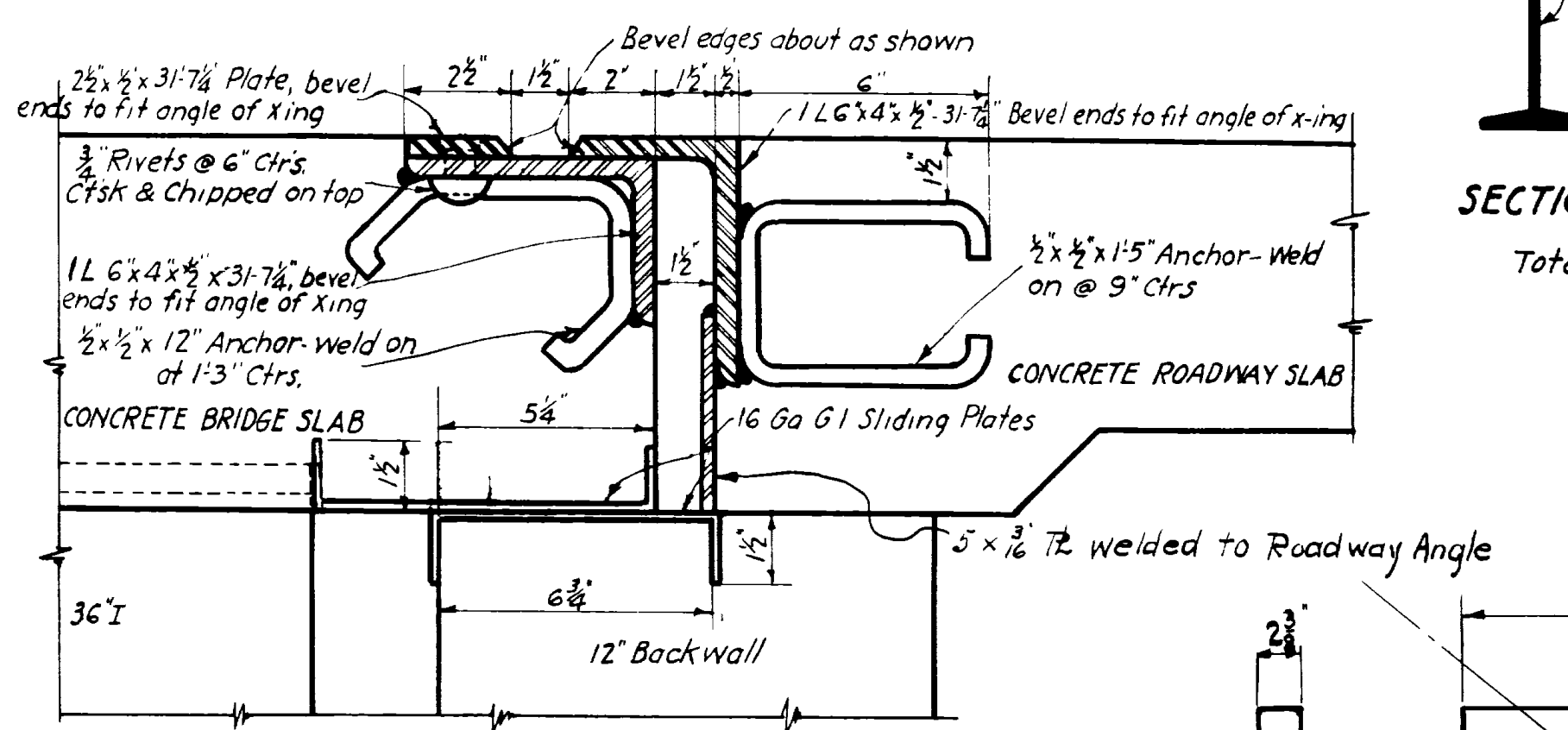
**CAST STEEL FIXED UNIT FOR ONE INTERMEDIATE PIER**  
 Wt. of 1 = 240\* 5 REQUIRED Total Wt. 1200\*  
 Scale 1/2"=1'-0"



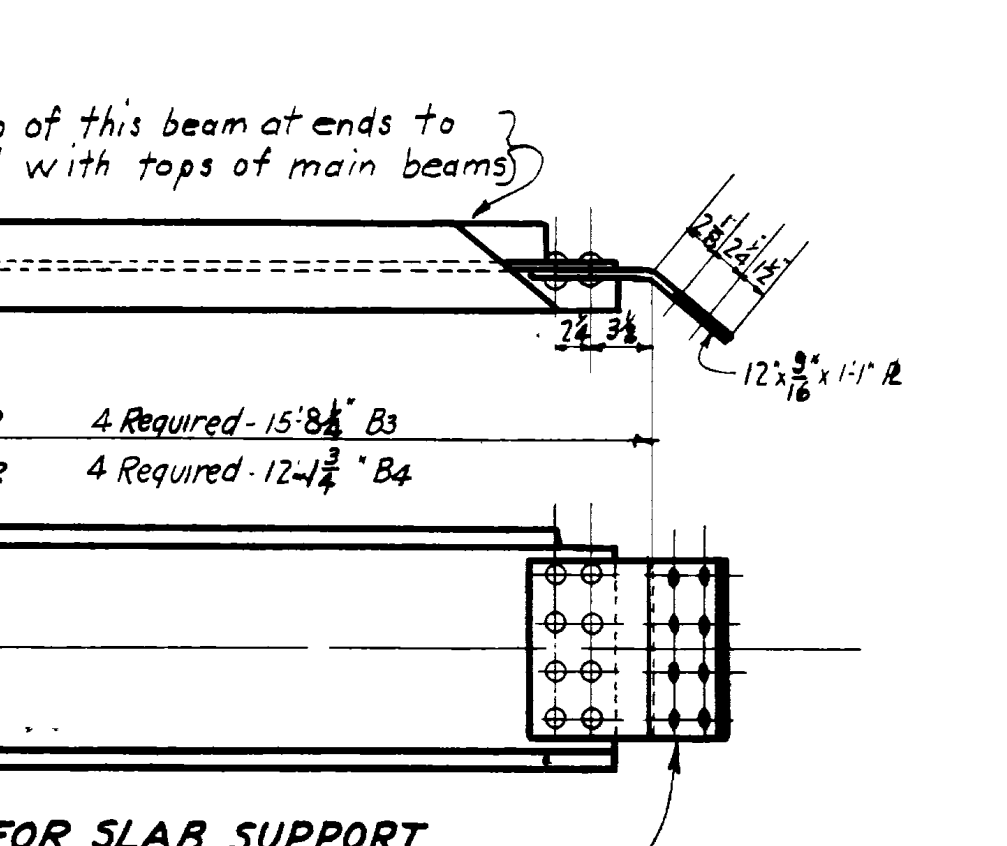
**CAST STEEL TOP PLATE FOR FIXED UNIT**  
 Wt. of 1 = 80\* 5 REQUIRED Total Wt 400\*  
 Scale 1/2"=1'-0"



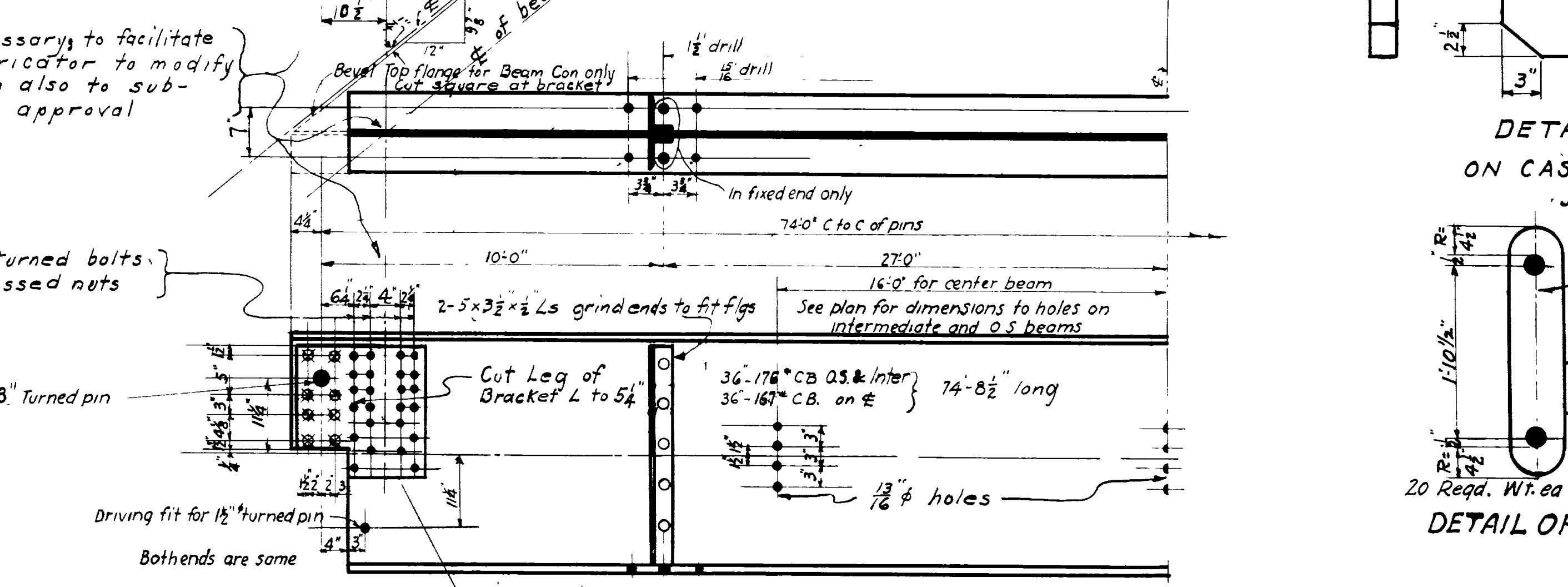
**SECTION Y-Y THRU JOINT**  
 Scale 1/2"=1'-0"  
 Total Wt. Angles 2700\*



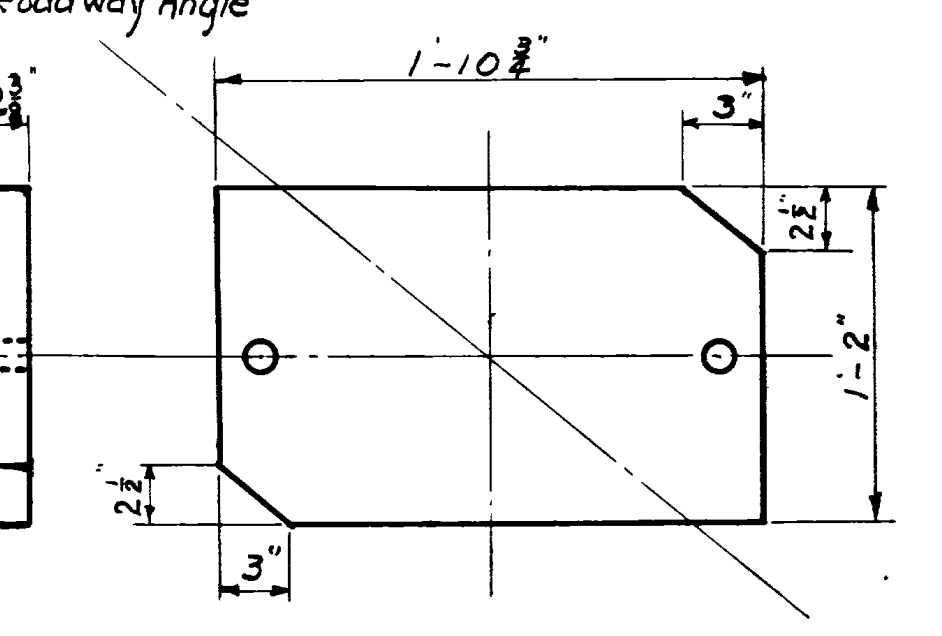
**SECTION X-X**  
 Scale 3/4"=1'-0"  
 Total Wt. Angles 4950\*



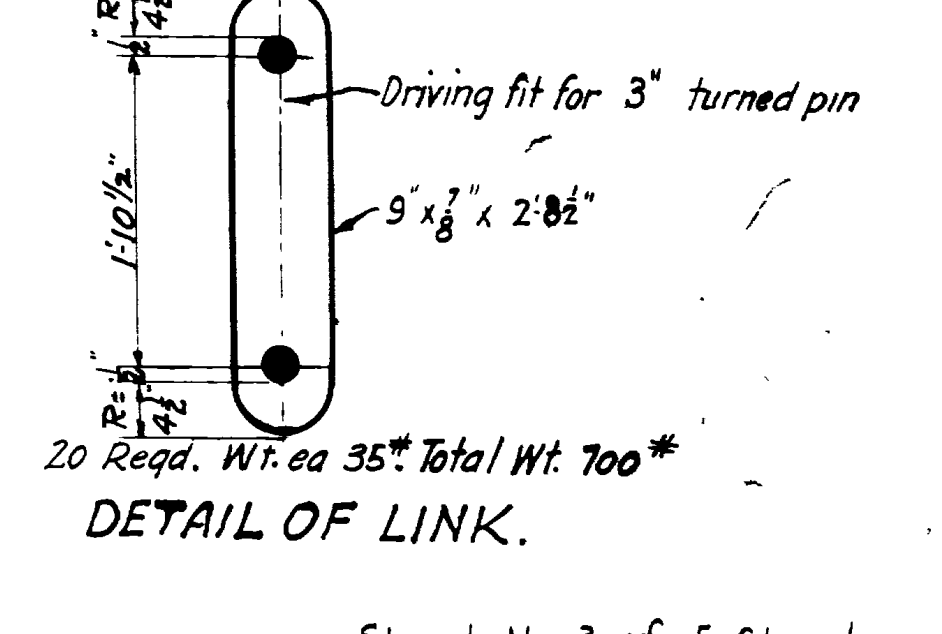
**DETAIL OF BEAM FOR SLAB SUPPORT AT CANTILEVER END**  
 Scale 1/4"=1'-0"  
 Total Wt = 11,300\*



**CENTER SPAN BEAM - HALF DETAIL**  
 ONE REQUIRED AS SHOWN - 2 REQUIRED AS NOTED - 1 - 2 REQ. AS NOTED - OS.  
 Scale 3/4"=1'-0"  
 Total Wt = 64,900\*

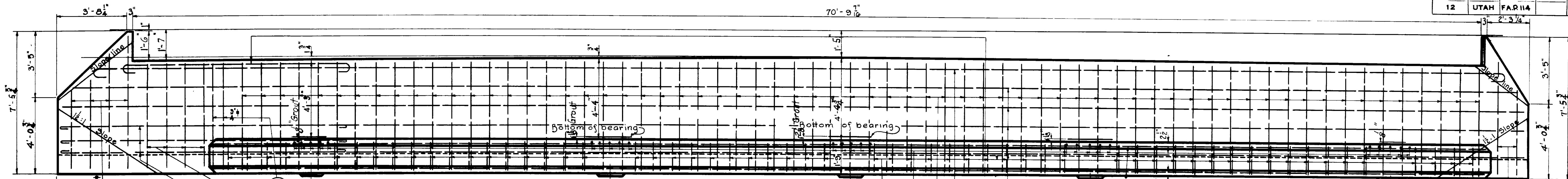


**DETAIL FOR BEVELS ON CAST STEEL PLATE**  
 Scale 1 1/2"=1' Ft.

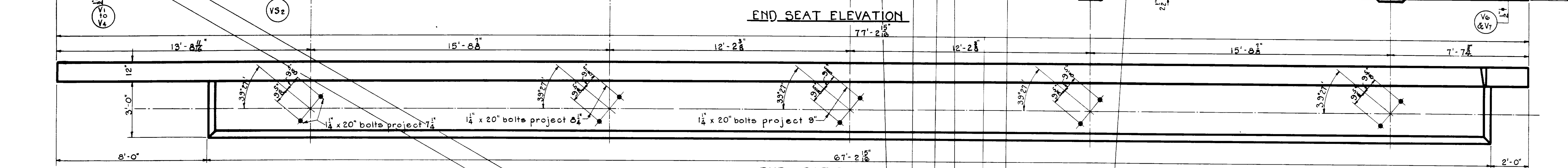


**DETAIL OF LINK.**  
 20 Reqd. Wt. ea 35\* Total Wt. 700\*

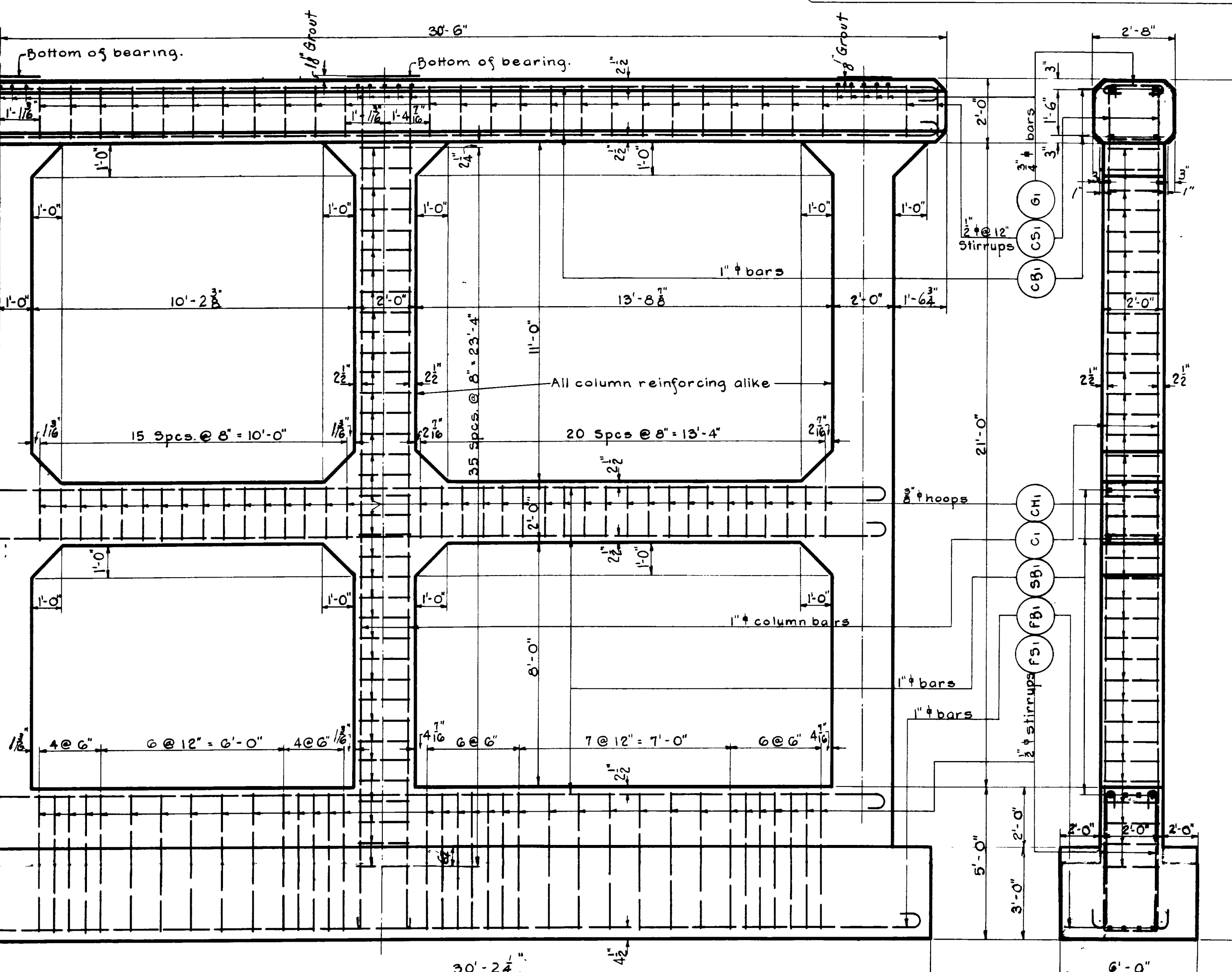
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	F.A.P. 114			



END SEAT ELEVATION

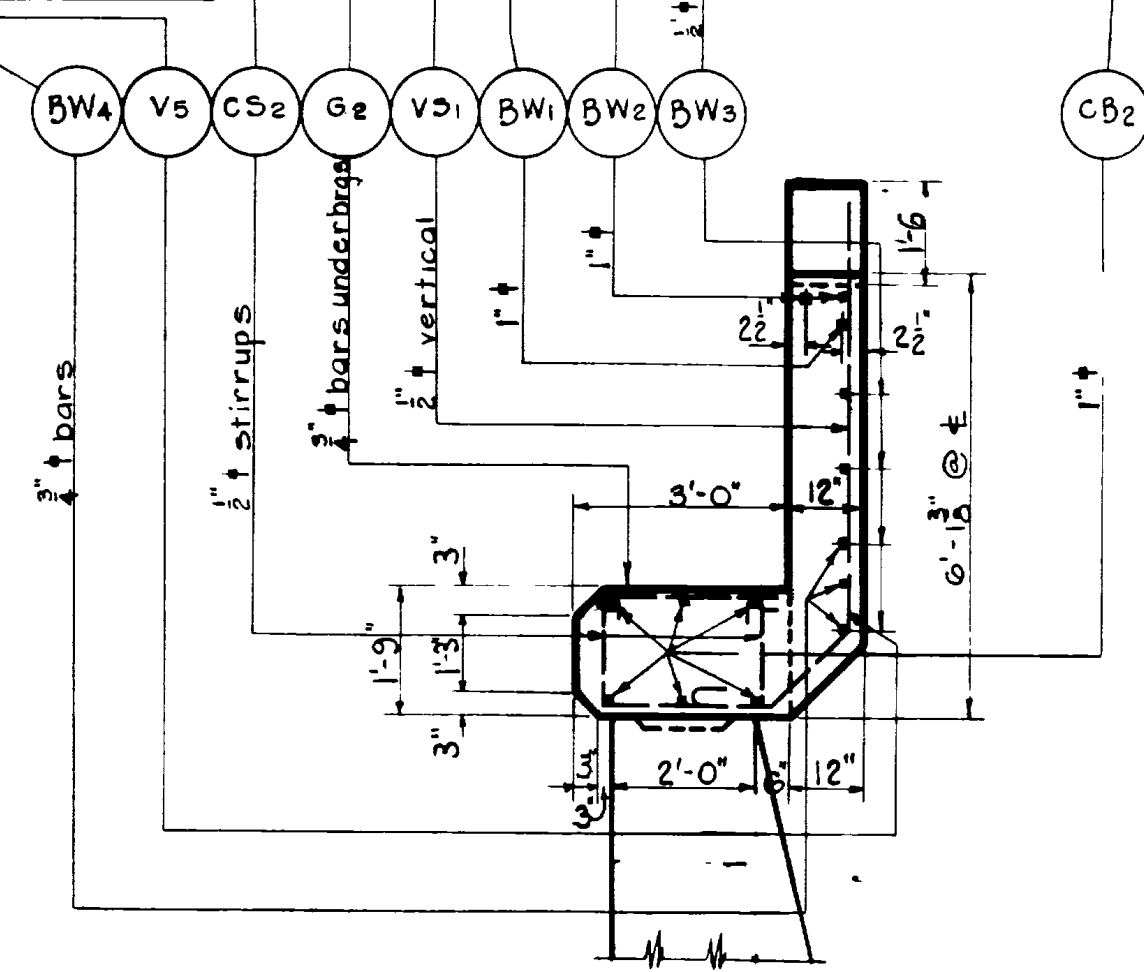


END SEAT PLAN

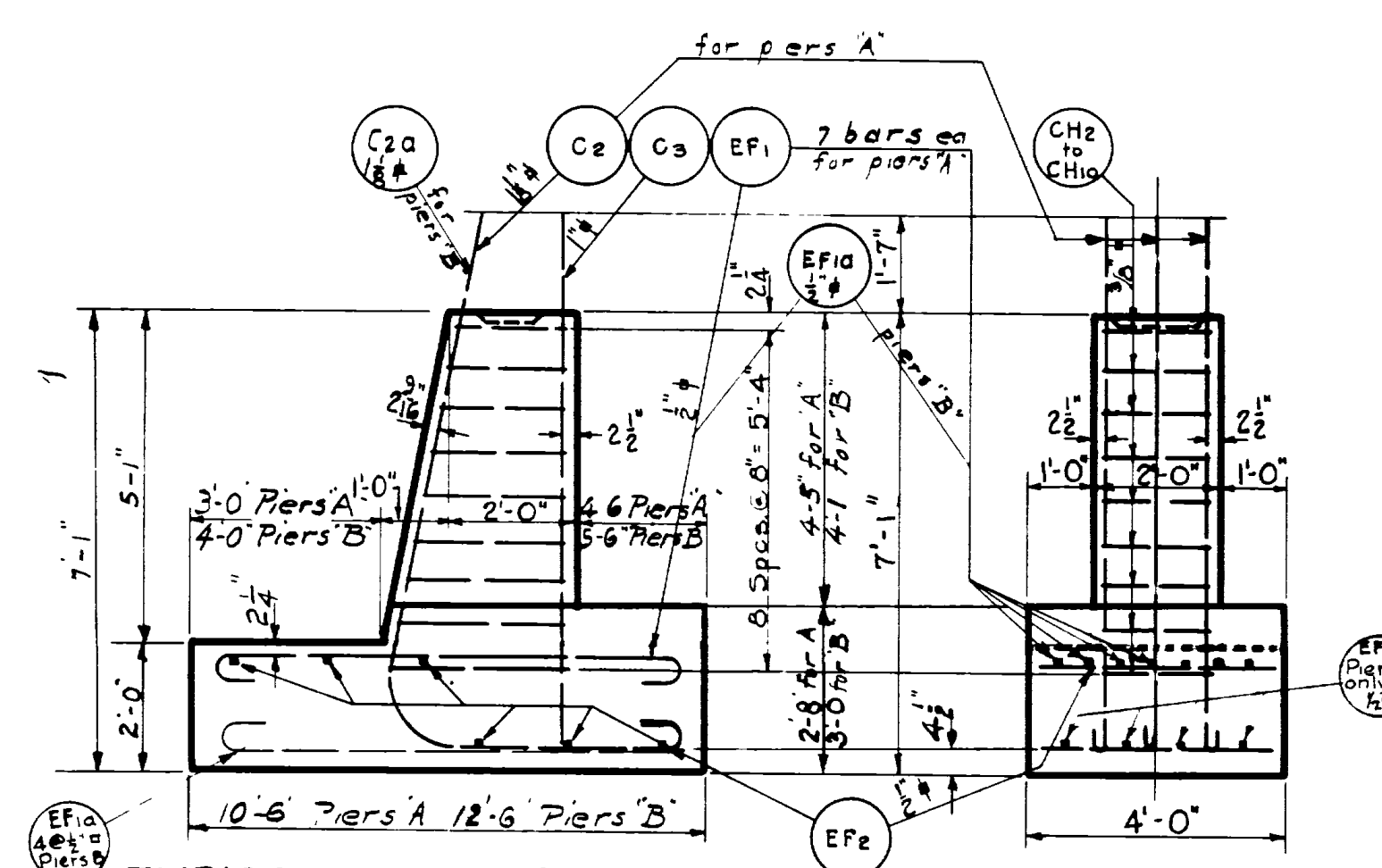


HALF ELEVATION BENTS N°S 1 & 2

SECTION

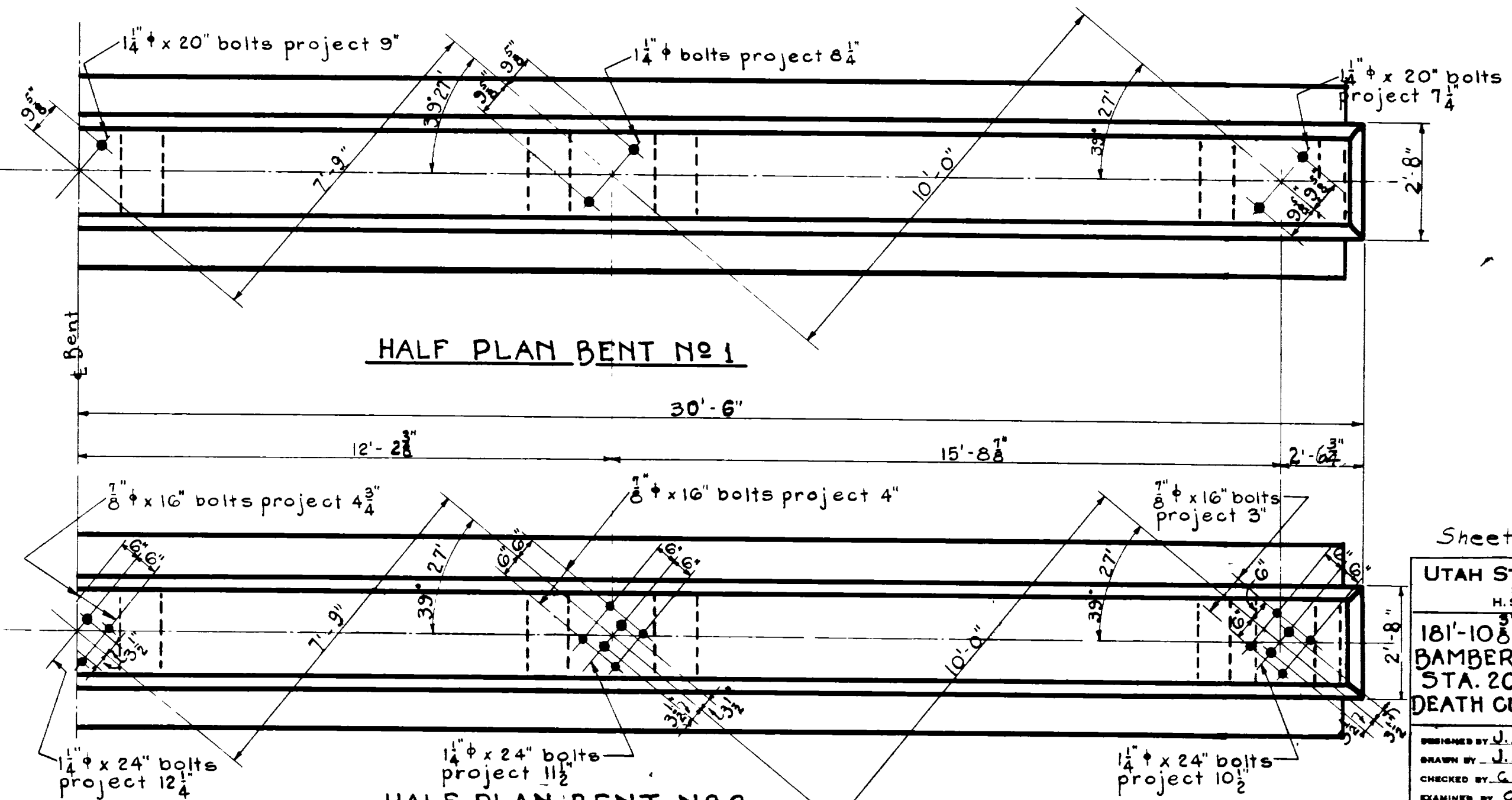


END SEAT SECTION



TYPICAL SIDE ELEVATION PIER UNDER END SEAT

TYPICAL END ELEVATION



HALF PLAN BENT N°1

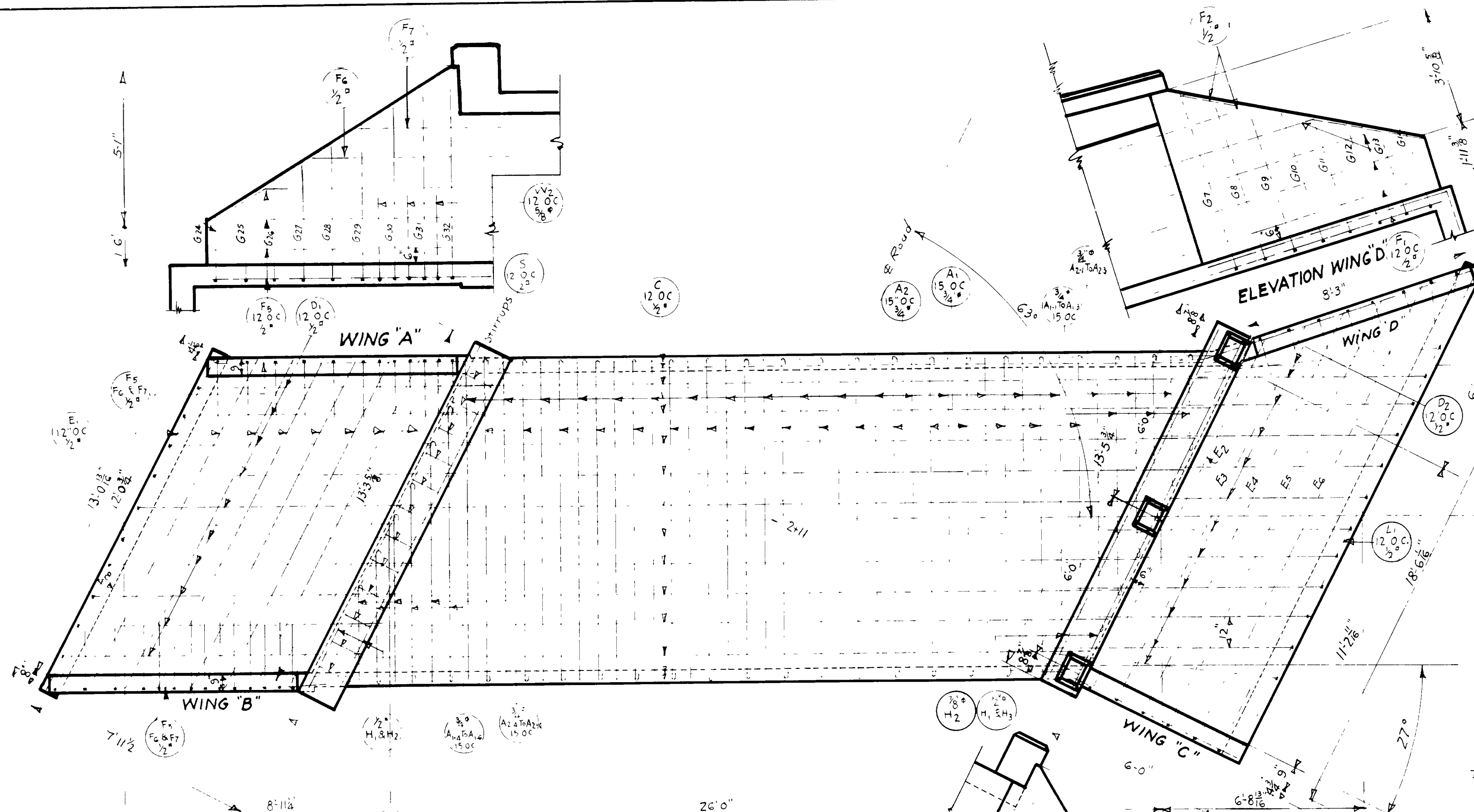
HALF PLAN BENT N°2

REV.	DATE	BY
1	11-30-11	J.A.U.
2	12-13-11	G.G.S.
3	12-13-11	G.G.S.
4	12-13-11	G.G.S.

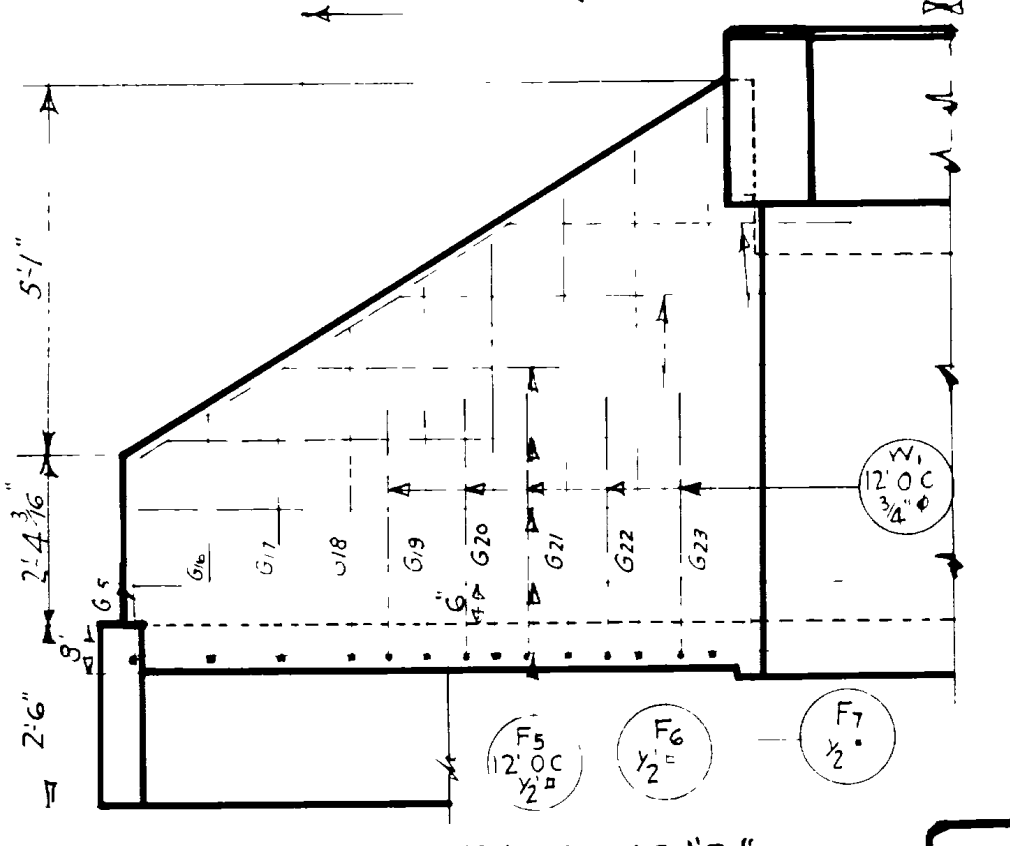
Sheet No. 4 of 5 Sheets  
 UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 H. S. KERR, CHIEF ENGINEER  
 181'-10 1/2" I BEAM VIADUCT  
 BAMBERGER R.R. CROSSING  
 STA. 20+73.6 F.A.P. 114  
 DEATH CURVE REVISION-WEBER CO.  
 DESIGNED BY J.A.U. SCALE: 3/8" = 1'-0"  
 DRAWN BY J.A.U. ISSUED: 1/11/12  
 CHECKED BY G.G.S. APPROVED: [Signature]  
 EXAMINED BY G.G.S. UTM MARKING  
 BRIDGE NO. 51 DRG. NO. C-91



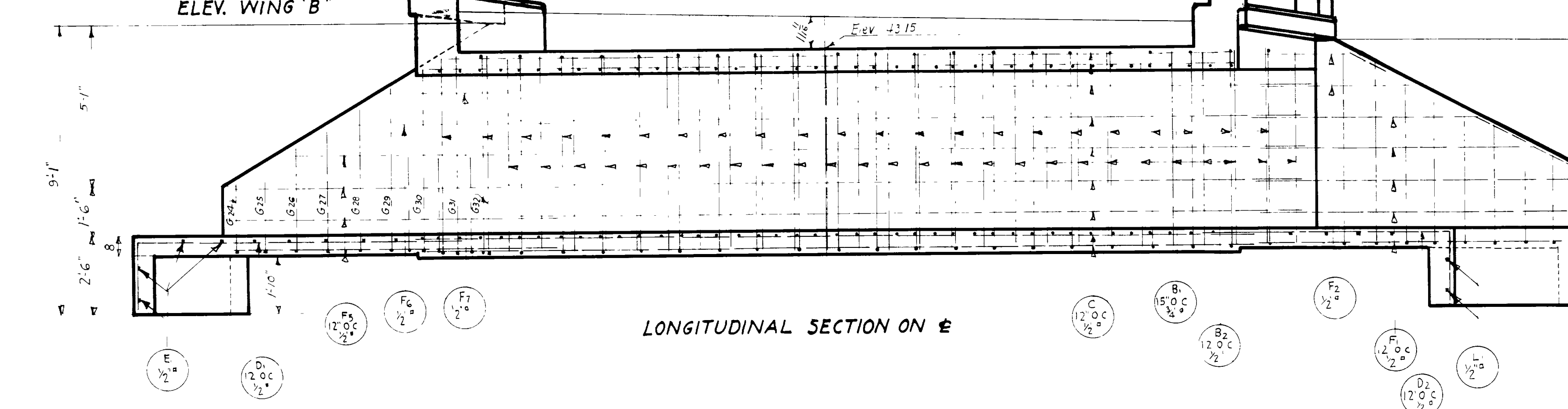
PROJECT NO.	12	UTAH	DATE	11-1-31	BY	W. H. HARRIS
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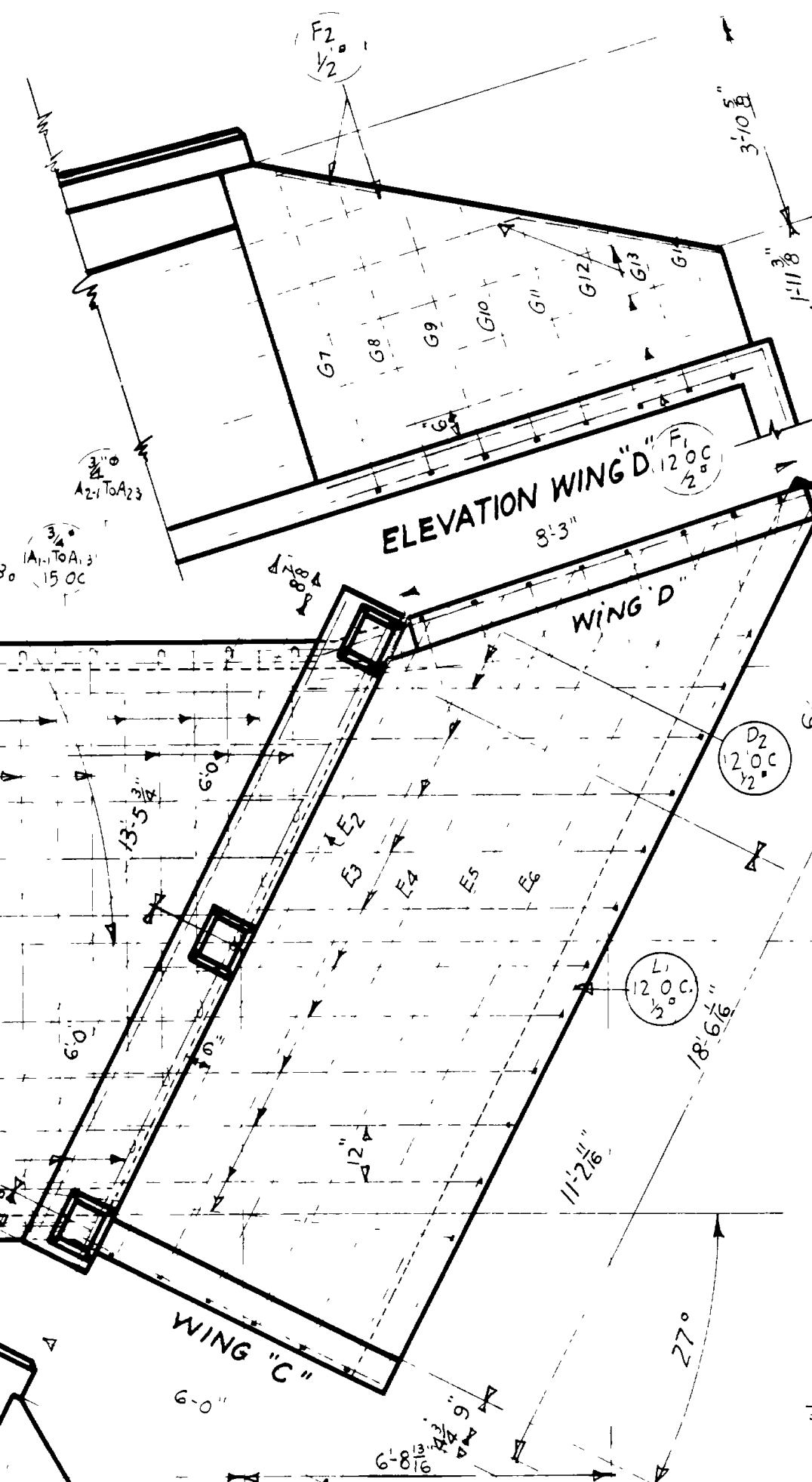
PLAN



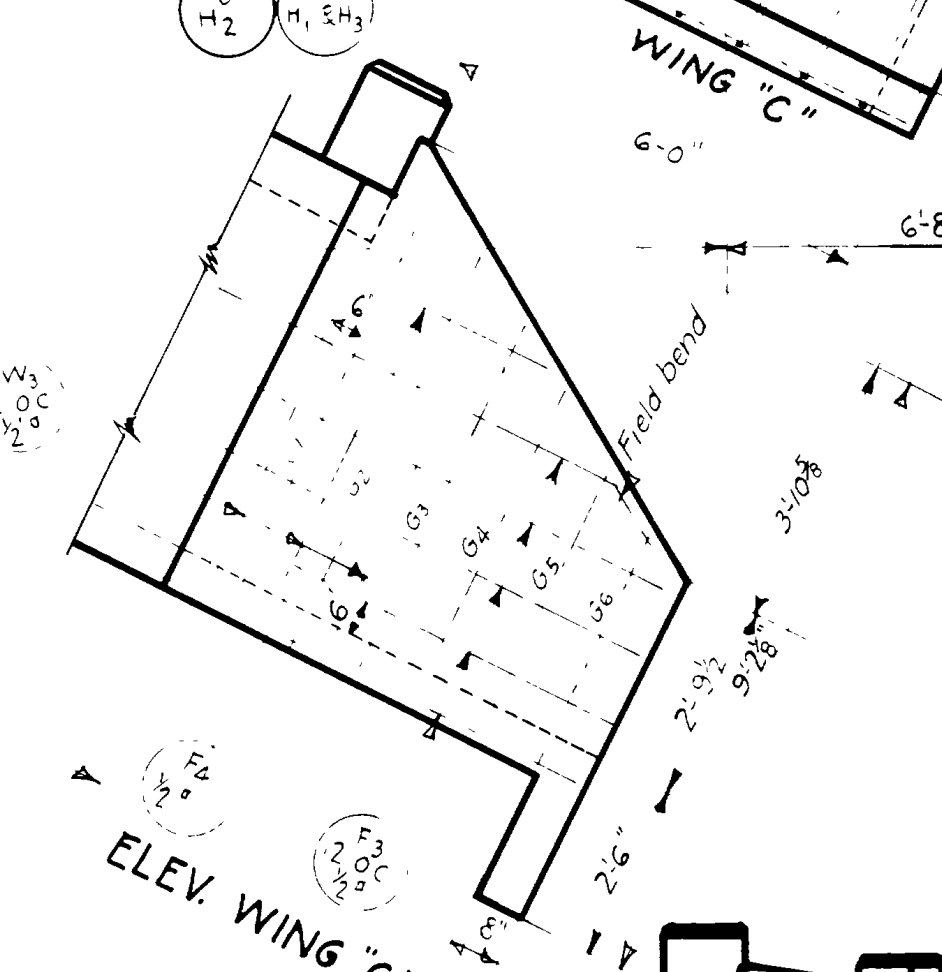
ELEV. WING "B"



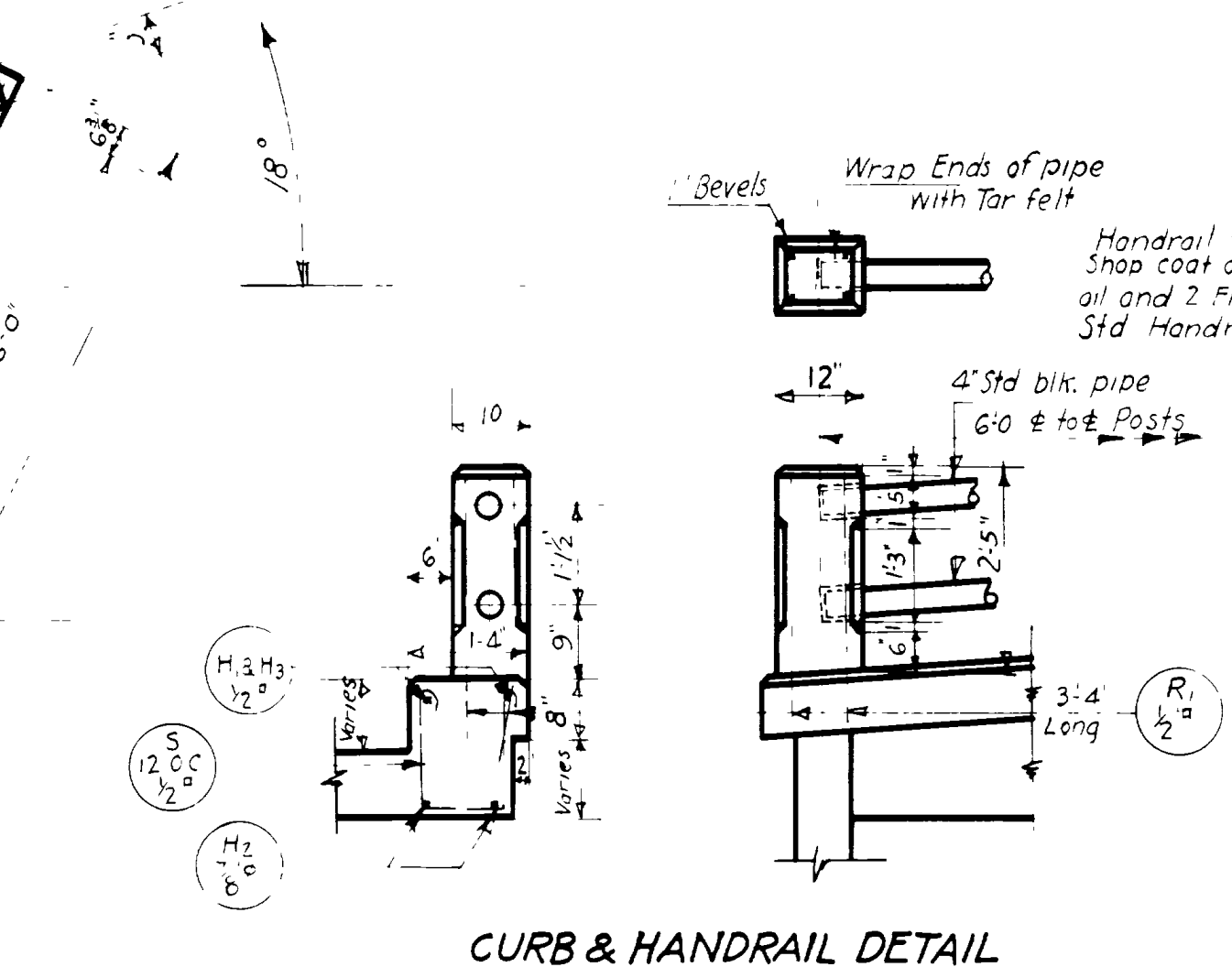
LONGITUDINAL SECTION ON  $\pm$



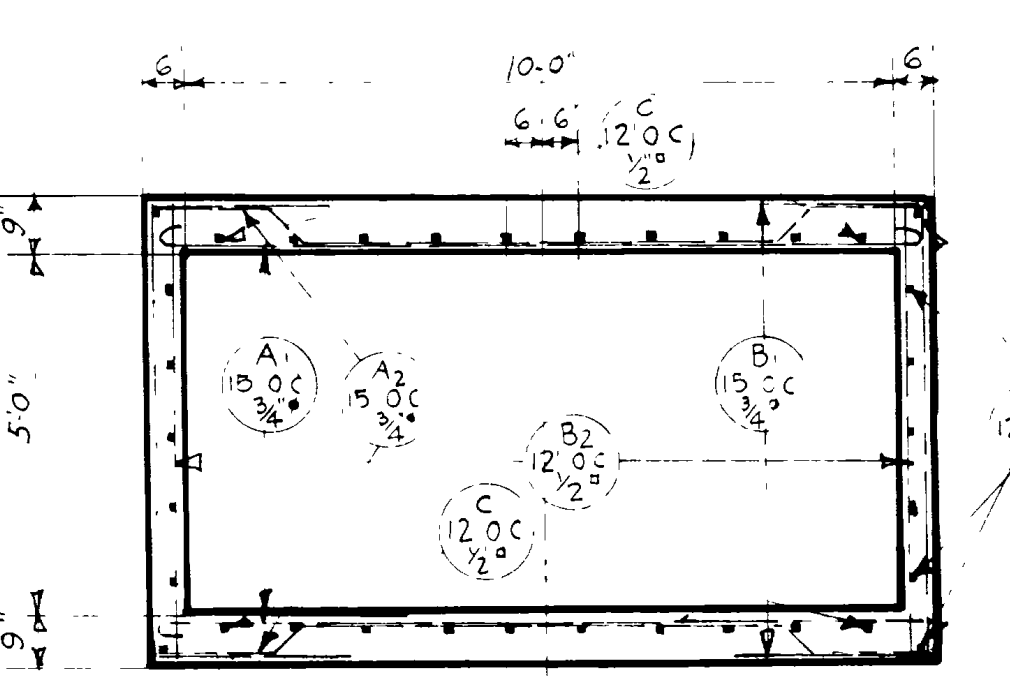
ELEVATION WING "D"



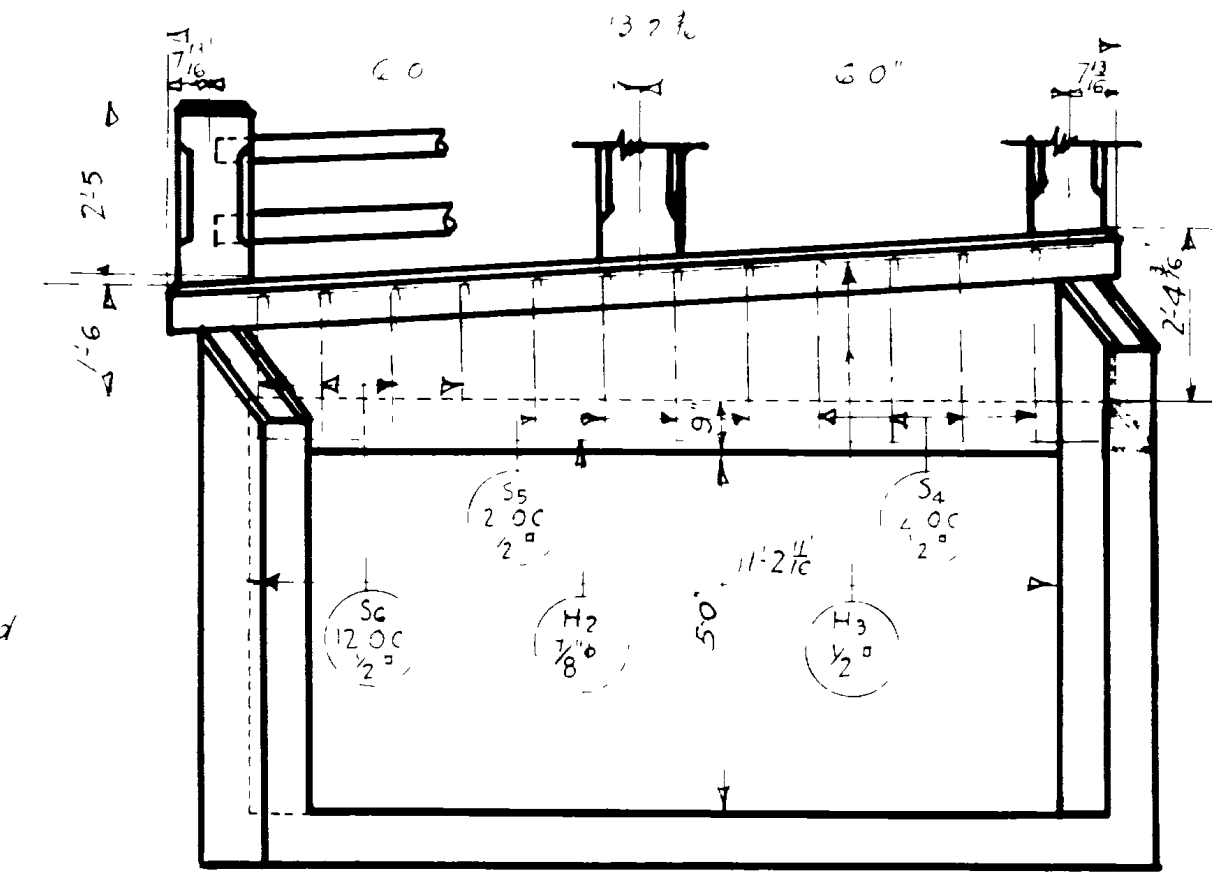
ELEV. WING "C"



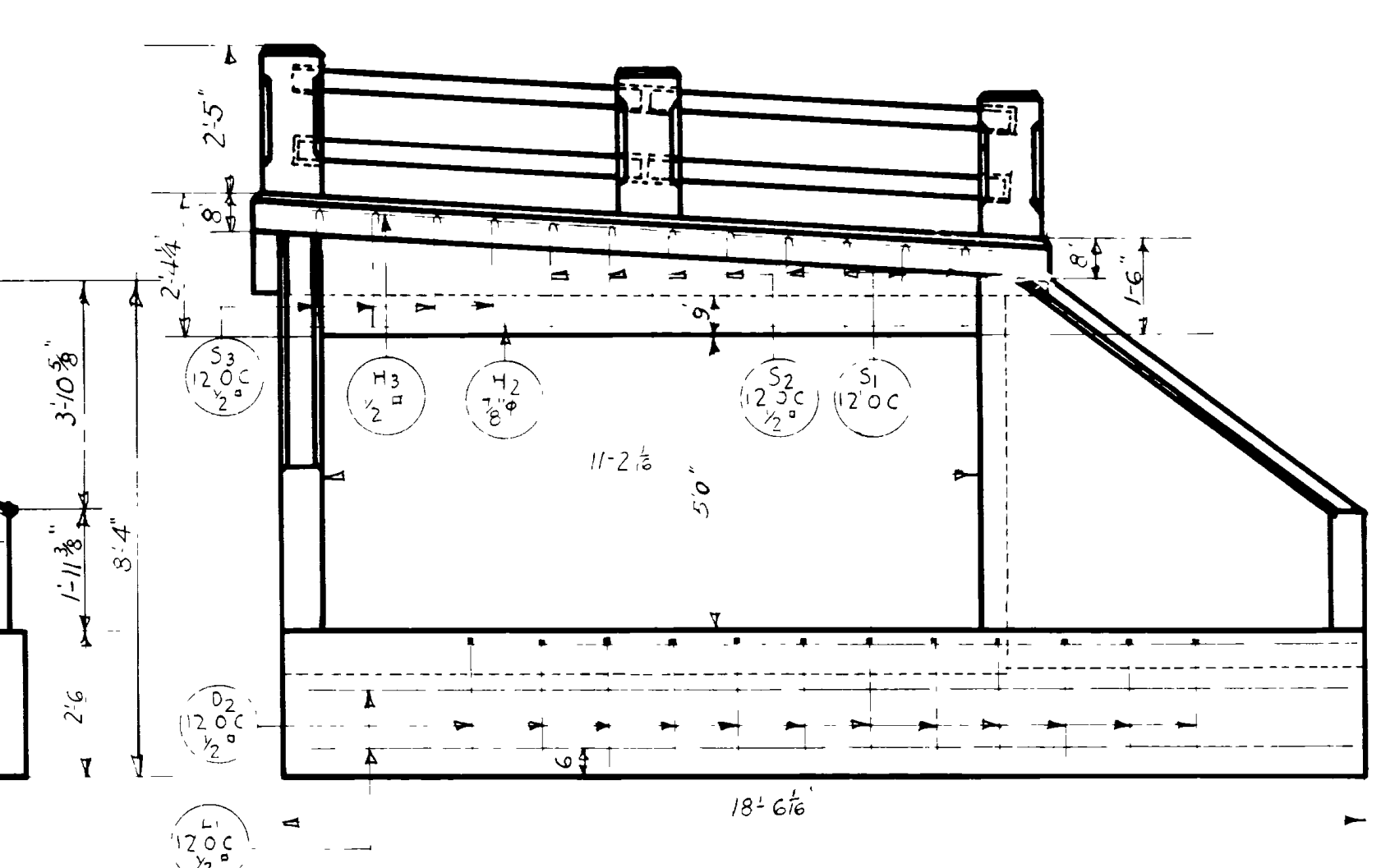
CURB & HANDRAIL DETAIL



SECTION THRU BARREL



ELEVATION OUTLET END



ELEVATION INLET END

**DESIGN DATA**

Live Load 2-10 Ton Trucks with .50 of load on rear axle, with 30% impact allowance.  
 Dead Load Concrete 150 lbs per cu ft. First foot of fill @ 120 lbs per cu ft.  
 Stresses Concrete 2500 lbs per sq in in compression. Steel 60000 lbs

**GENERAL NOTES**

All concrete to be class A and is to be kept moist 21 days after pouring. All exposed edges to be chamfered 1".  
 Reinforcing steel shall be deformed bars and overlapped 40 diameters at all splices, to be secured against displacement by wiring at all intersections with No. 16 iron wire, and shall have a minimum of 1" clear cover of concrete. All reinforcing steel shall fulfill the requirements of the A.A.S.H.O. Specifications.  
 Bar diagrams are not drawn to scale and those not detailed are either straight or field bent, all dimensions are to  $\pm$  of bars unless otherwise noted.  
 All materials to be furnished by contractor except cement. Contractor shall verify steel schedule and any errors or omissions therein and not be responsible for cost in unit prices.

**QUANTITIES**

Structural Excavation	102 Cu Yds.
Concrete Class A	33 "
Cement	210 Sacks
Reinforcing Steel	4707 lbs.

Sheet 1 of 2 Sheets

UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 H. S. PETERSON, CHIEF ENGINEER

**10' x 5' CONCRETE BOX CULVERT**  
**WEBER-DAVIS CANAL**  
 63° Crossing Angle

Sta 2+11 F&P 14 4.75 568  
 Approach Road or Death Curve - Weber Co

DATE 10-19-31  
 W. H. HARRIS

BRIDGE NO. DRG NO. **E-381**



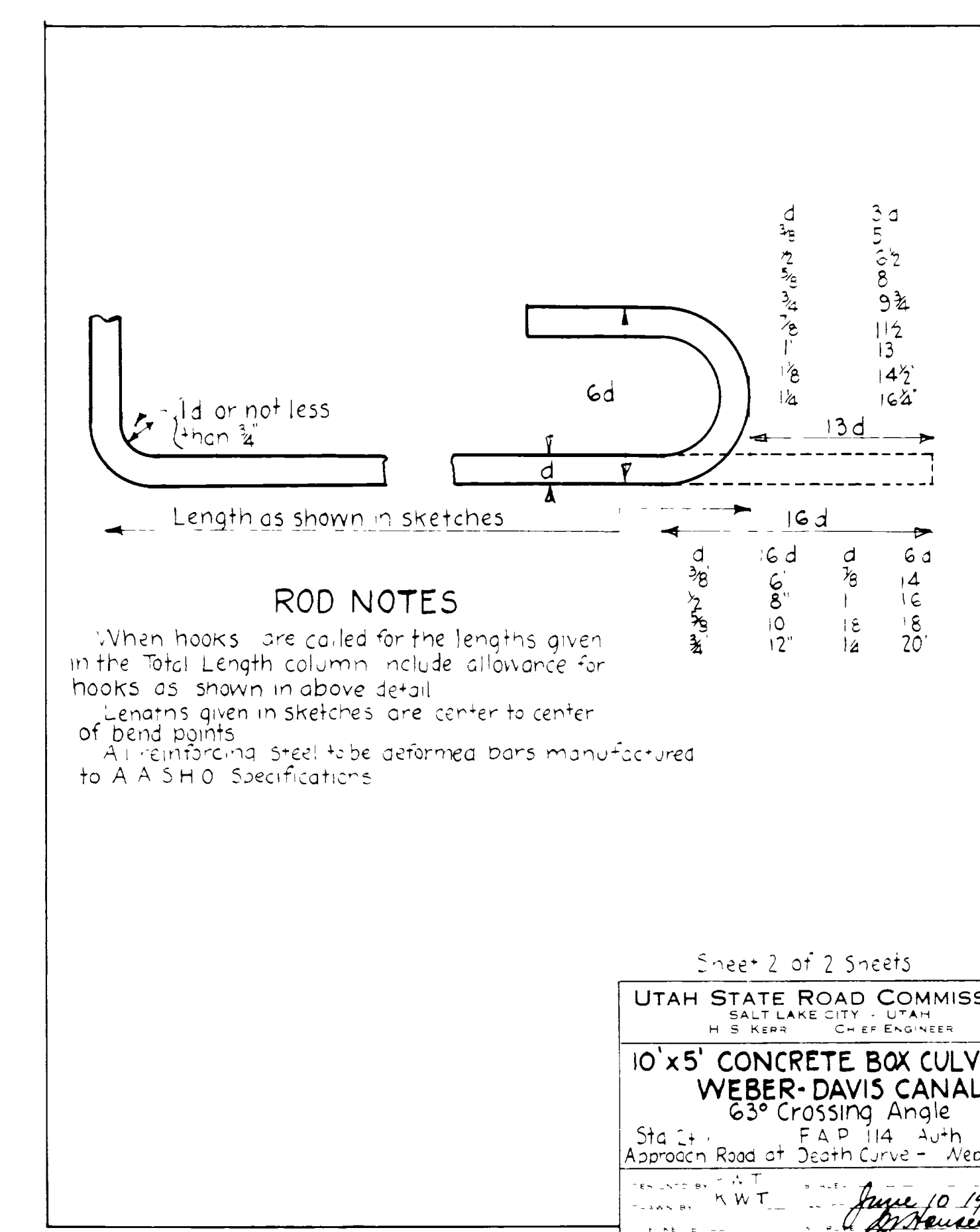
MARK	LOCATION	NO. BARS	LGTH	TOTAL LENGTH	SKETCH	0 to 0
A1	Top & Bottom Slab	34	7.4	119.4		
A1-1		2	2.8	19.4		
A1-2		2	7.3	14.1		
A1-3		2	4.10	9.3		
A1-4		2	10.9	21.4		
A1-5		2	8.3	16.6		
A1-6		2	5.11	11.19		
A2		34	15.2	516.8		
A2-1		7	12.6	75.0		
A2-2		7	9.9	70.9		
A2-3		7	7.7	14.4		
A2-4		7	11.0	22.1		
A2-5		2	9.7	11.2		
A2-6		2	5.9	6.6		
B	Spawns	44	11.3	499.0		
B2	Spawns	52	6.3	325.0		
C	Barre	34	25.8	272.9		
D1	Outer Slop	12	2.7	76.4		
D2	Inner Slop	12	0.5	25.1		
E1	Outer Slop	9	12.5	111.9		
E2	Inner Slop	1	13.1	3.1		
E3		1	14.0	14.0		
E4		1	15.0	15.0		
E5		1	15.11	5.1		
E6		1	16.10	16.10		
F1	Wing	5	10.2	50.0		
F2		2	5.10	11.5		

MARK	LOCATION	NO. BARS	LGTH	TOTAL LENGTH	SKETCH	0 to 0
F3		1	8	40.0		
F4		1	1.4	1.4		
F5		9	10.5	137.7		
F6		1	5.0	11.9		
F7		1	12	3.1		
G1		1	1.1	8.4		
G2		1	1.9	1.9		
G3		1	1.5	1.5		
G4		1	0.9	6.9		
G5		1	0.7	6.7		
G6		1	5.8	5.8		
G7		1	4.5	4.5		
G8		1	1.0	1.0		
G9		1	1.2	1.2		
G10		1	0.8	0.8		
G11		1	1.2	1.2		
G12		1	5.8	5.8		
G13		1	5.2	5.2		
G14		1	1.9	1.9		
G15		1	1.0	1.0		
G16		1	5.2	5.2		
G17		1	1.0	1.0		
G18		1	1.8	1.8		
G19		1	1.0	1.0		
G20		1	5.2	5.2		
G21		1	1.0	1.0		
G22		1	1.0	1.0		
G23		1	4.3	4.3		
G24		1	4.9	4.9		
G25		1	5.4	5.4		
G26		1	4	4		
G27		1	6.0	6.0		
G28		1	6.8	6.8		
G29		1	7.5	7.5		
G30		1	1.0	1.0		
G31		1	8.0	8.0		

MARK	LOCATION	NO. BARS	LGTH	TOTAL LENGTH	SKETCH	0 to 0
H1	Wing A	1	3.1	9.1		
H2	Wing B	2	12.0	25.2		
H3	Wing C	1	12.0	18.9		
H4	Wing D	2	15.2	26.4		
H5	Wing E	2	18.0	36.0		
H6	Wing F	21	3.1	30.0		
H7	Wing G	4	3.1	10.0		
H8	Wing H	1	5.1	21.1		
H9	Wing I	1	1.0	1.0		
H10	Wing J	1	2.7	2.7		
H11	Wing K	1	2.9	2.9		
H12	Wing L	1	2.0	2.0		
H13	Wing M	1	3.0	3.0		
H14	Wing N	1	3.0	3.0		
H15	Wing O	1	3.0	3.0		
H16	Wing P	1	5.3	28.1		
H17	Wing Q	1	5.2	15.0		
H18	Wing R	1	5.2	15.0		

$2401.87' - 1.5" \text{ Sp.} = 2667.26' \quad 7066.43 \text{ lbs}$   
 $15.0' - 3/4" \text{ Bar} = 8100' \quad 16.13 \text{ lbs}$   
 $1000.00' - 1/2" \text{ Bar} = 6000' \quad 1655.18 \text{ lbs}$   
 $28.0' - 3/4" \text{ Bar} = 21.07' \quad 99.40 \text{ lbs}$   
 Total Weight 4700.10 lbs

FEED MARK	STATE	FEED NO.	FEED YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	1-4			



Sheet 2 of 2 Sheets  
 UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 H. S. KEAR, CHIEF ENGINEER  
**10' x 5' CONCRETE BOX CULVERT  
 WEBER-DAVIS CANAL  
 65° Crossing Angle**  
 Sta. 14 + 00 F.A.P. 114 Auth 508  
 Approach Road at Death Curve - Wever Co.  
 DESIGNED BY: H. W. T. *Aug 10 1935*  
 DRAWN BY: *H. W. T.*  
 BRIDGE NO. \_\_\_\_\_ DRG. NO. E-381