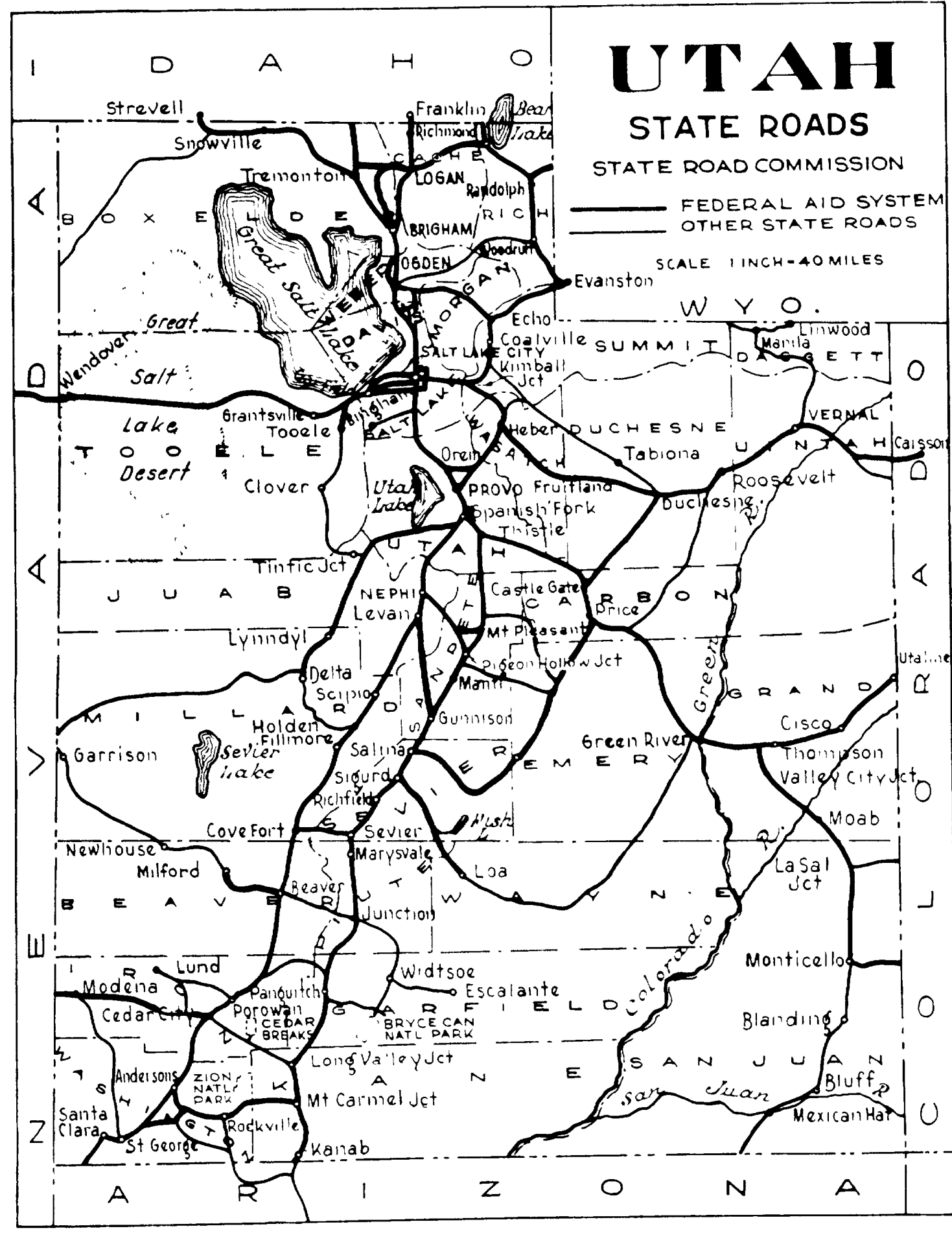


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	222-A(1)	1942	1	39
"	"	222-B(1)	"	1	10
"	"	DA-WR 12(1)	"	1	10



STATE OF UTAH

STATE ROAD COMMISSION

PLANS OF PROPOSED STATE ROAD FEDERAL AID PROJECT

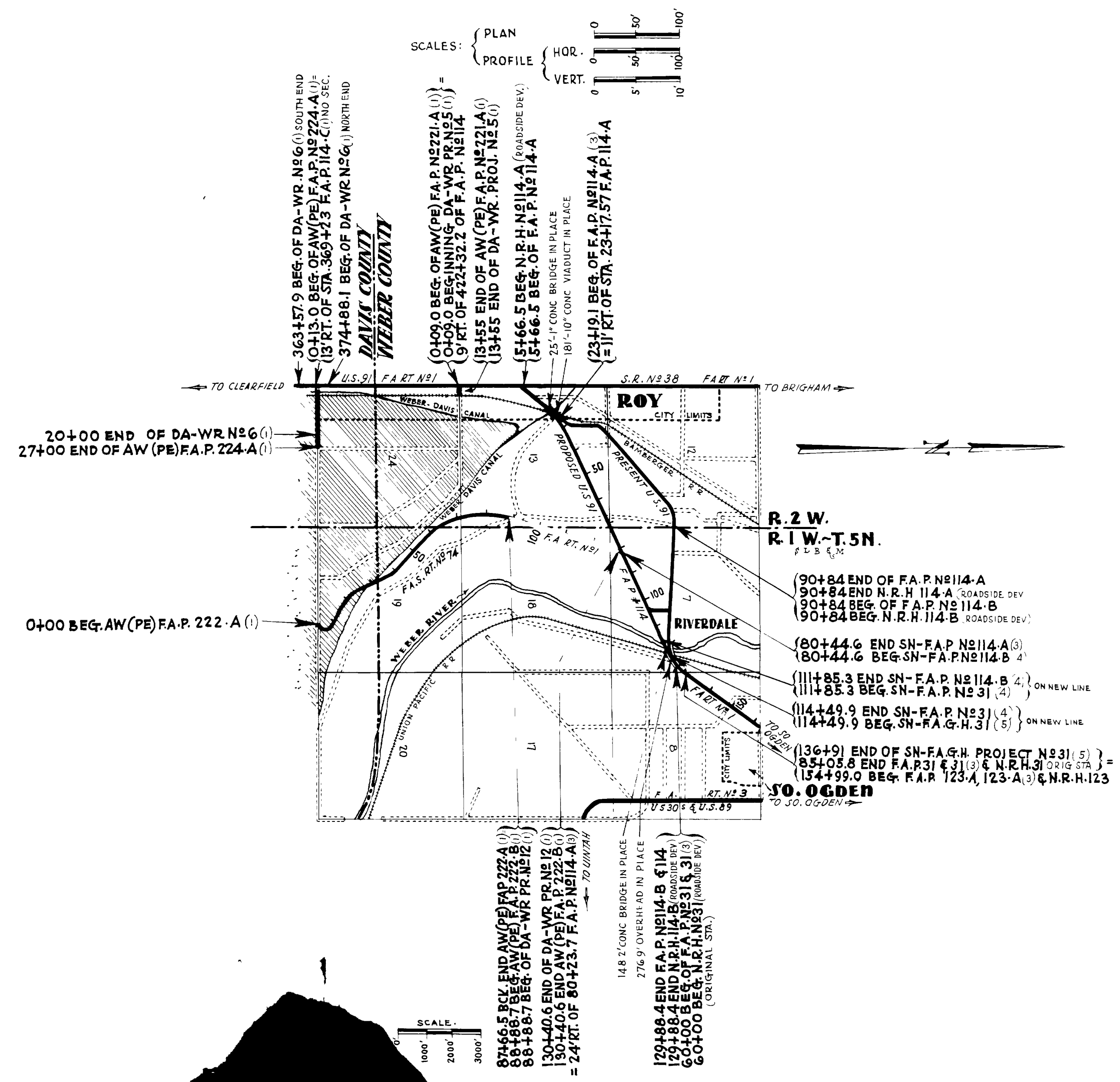
AW (PE) F.A.P. No 222-A(1) ~ LENGTH 1.661 MILES
AW (PE) F.A.P. No 222-B(1) ~ LENGTH 0.786 MILES
DA-WR PR. No 12(1) ~ LENGTH 0.786 MILES

INDEX TO SHEETS DA-WR No 12(1)

SHEET	DESCRIPTION	DRAWING NO.	STATION
1	TITLE SHEET		
2	TYPICAL SECTION		
3-5	PLAN AND PROFILE		
6	STD. CATCH BASINS	V-330 F 1/8	94+8 114+5
7	HEADGATE AND OUTLET	V-224 L 1/8	106+0.8
8-9	8'x3'x51" CONC. BOX	E-740	97+34
10	F.A.P. MARKER	M-45	
1-10	X-SECTIONS		

INDEX TO SHEETS AW (PE) F.A.P. 222-A(1)

SHEET No.	DESCRIPTION	DRAWING No.	STATION
1	TITLE SHEET		
2	TYPICAL SECTION		
3-5	PLAN AND PROFILE		
6-18	84'-6 3/8" CONC. BRIDGE	C-215	27+46
21-32	131'-3" CONC. BRIDGE	D-466	52+50
33-A	R/W MARKERS	M-37	
33-C	SUPER AND WIDEN CURVES	M-37	
34	STD. GUARD RAIL	E-40	
35	STD. CATCH BASINS	V-175 L 1/8	106+0.8
36	STD. HEADGATE AND OUTLET	V-74 L 1/8	106+0.8
37-38	8'x3'x51" CONC. BOX	E-740	97+34
39	STD. EMBANKMENT PROTECTOR	M-35	
1-41	X-SECTIONS		



APPROVED APRIL 1942

STATE ROAD COMMISSION OF UTAH

W. Anderson DESIGN ENGINEER

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
 PUBLIC ROADS ADMINISTRATION
 FEDERAL WORKS AGENCY

RECOMMENDED FOR APPROVAL

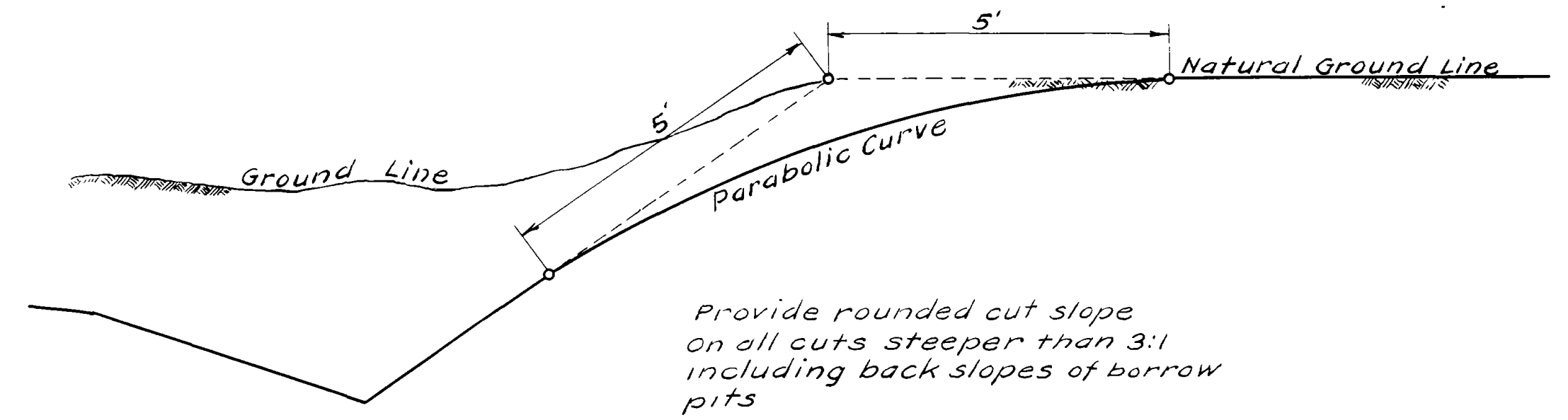
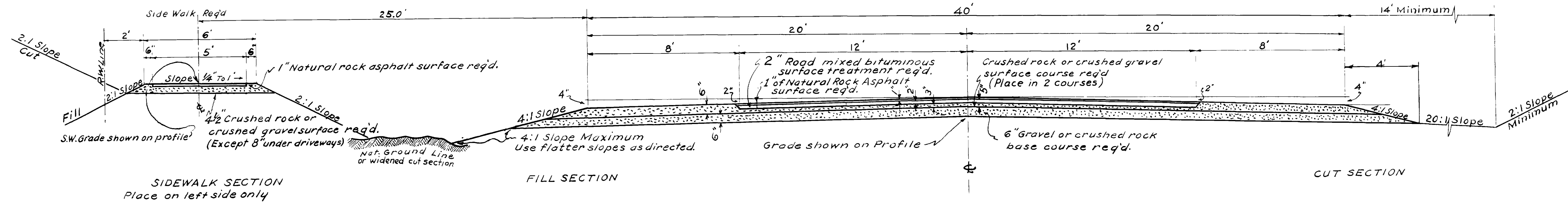
CHIEF, WESTERN REGION
 PUBLIC ROADS ADMINISTRATION
 FEDERAL WORKS AGENCY

APPROVED

COMMISSIONER
 PUBLIC ROADS ADMINISTRATION
 FEDERAL WORKS AGENCY

TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	222	6(1) 1942	10	10
DATE: 12(1) 1942					10



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

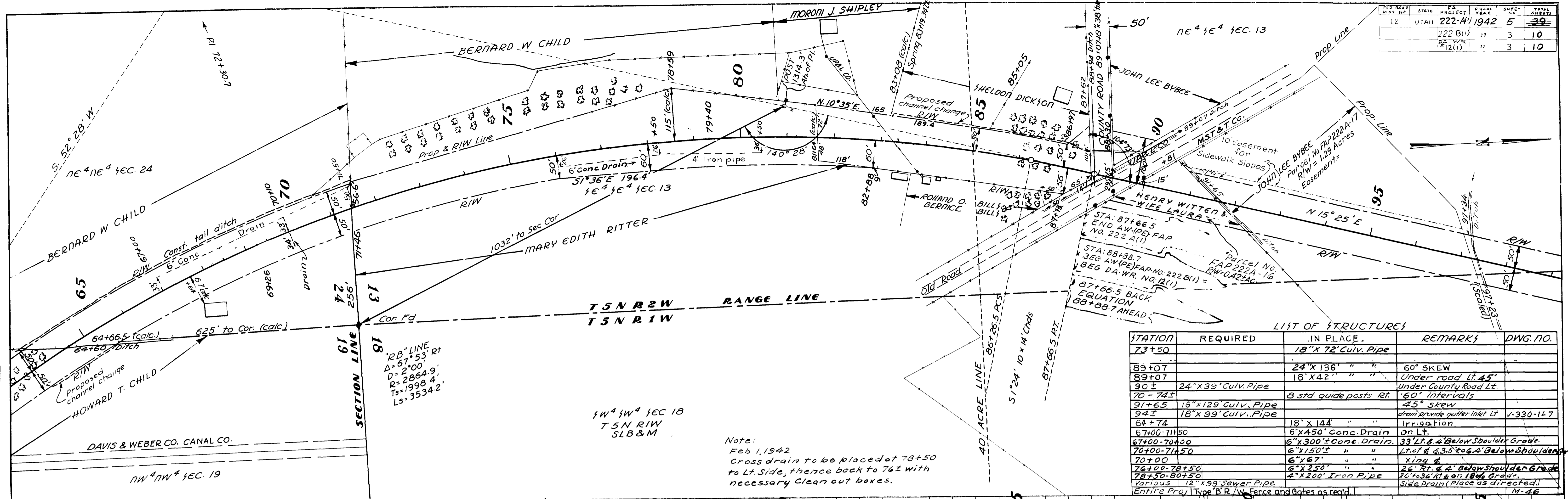
— TYPE —

Bituminous
 Surfaced Roadway

REG. ROAD DIST. NO.	STATE	PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	222-A(1)	1942	5	39
		222 B(1)	"	3	10
		DA-WR 12(1)	"	3	10

NOTE BOOK ALIGNED CHECKED
RT OF WAY CHECKED
NO. 4799
H.S. WRIGHT
R.H. LOGGIE

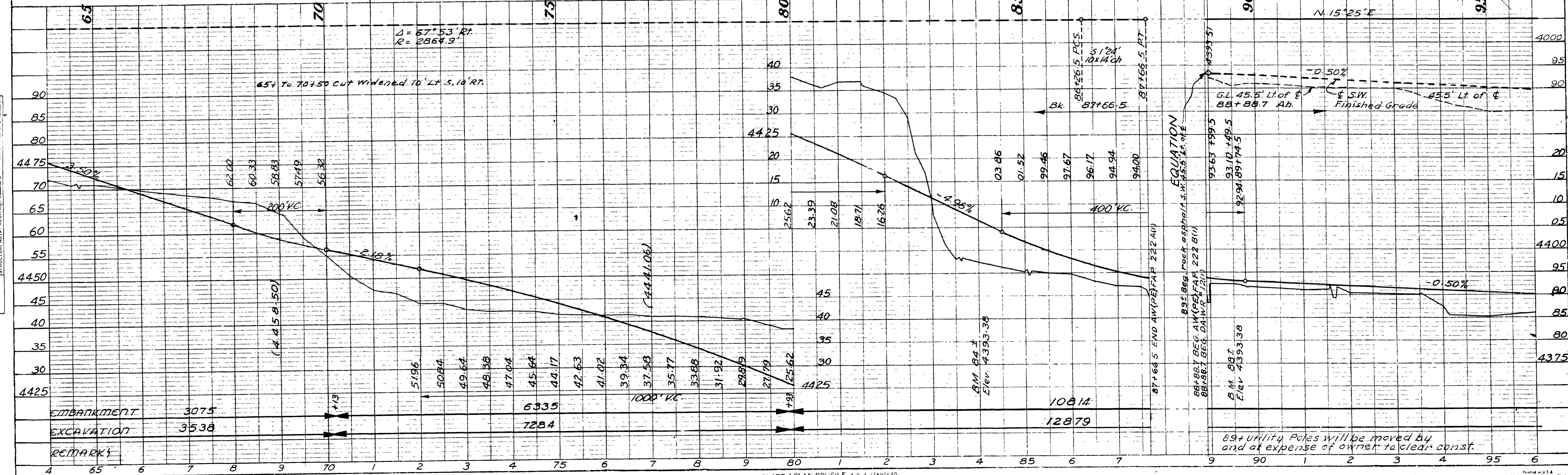
NOTE BOOK GRADES CHECKED
B.M. NOTED
NO. 4793
R.H. WRIGHT
R.H. LOGGIE



LIST OF STRUCTURES

STATION	REQUIRED	IN PLACE	REMARKS	DWG. NO.
73+50		18" x 72" Culv. Pipe		
89+07		24" x 136" "	60° SKEW	
89+07		18" x 42" "	Under road Lt. 45'	
90±	24" x 39" Culv. Pipe		Under County Road Lt.	
70-74±		3 std. guide posts Rt.	60' Intervals	
91+65	18" x 129" Culv. Pipe		45° skew	
94±	18" x 99" Culv. Pipe		drain provide gutter inlet Lt	V-330-1L7
64+74		18" x 144" "	Irrigation	
67+00-71+50		6" x 450" Conc. Drain	on Lt.	
67+00-70+00		6" x 300" Conc. Drain	33' Lt. & 4' Below Shoulder Grade.	
70+00-71+50		6" x 150" "	Lt. of & 3.5' to 6.4' Below Shoulder	
70+00		6" x 67' "	Xing &	
76+00-78+50		6" x 250' "	26' Rt. & 4' Below Shoulder Grade	
78+50-80+50		4" x 200' Iron Pipe	26' to 36' Rt. on 1896 Grade.	
Various		12" x 99" Sewer Pipe	Side Drain (Place as directed)	
Entire Proj		Type 'B' R/W Fence and Gates as req'd.		M-46

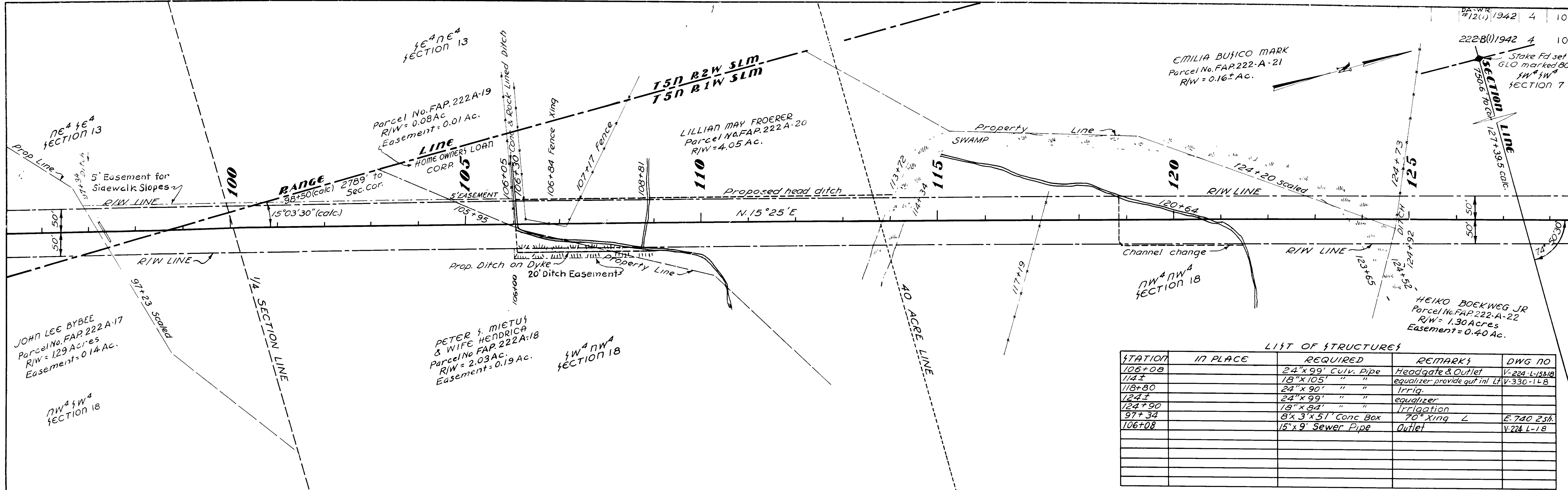
Note:
Feb 1, 1942
Cross drain to be placed at 78+50
to Lt. Side, thence back to 76± with
necessary Clean out boxes.



89+ utility Poles will be moved by
and at expense of owner to clear const.

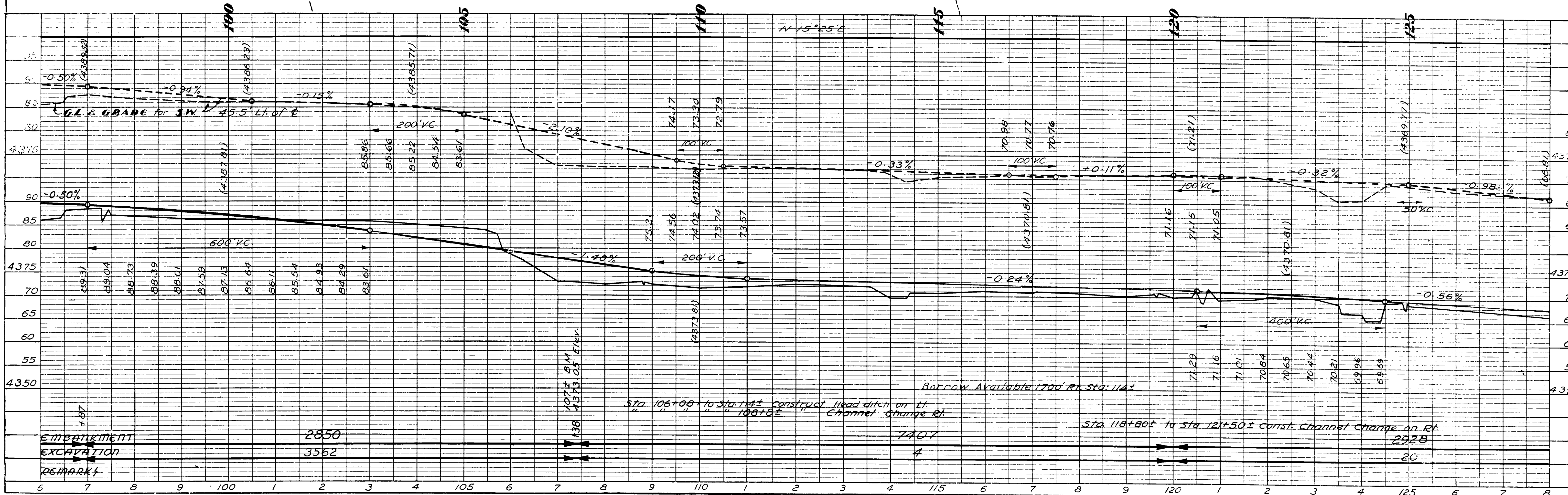
PLAN
 SURVEYED BY J.B. BURNS
 PLOTTED BY J.B. BURNS
 ALIGNMENT CHECKED BY J.S. WRIGHT
 R.L. & S.W. CHECKED BY J.S. WRIGHT
 NO. A799

PROFILE
 SURVEYED BY J.B. BURNS
 PLOTTED BY J.B. BURNS
 GRADES CHECKED BY J.S. WRIGHT
 STRUCTURE NOTING BY J.S. WRIGHT
 NO. A799



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DWG NO.
106+08		24" x 99' Culv. Pipe	Headgate & Outlet	V-224-L-15318
114±		18" x 105' " "	equalizer provide gut inl Lt	V-330-L-48
118+80		24" x 90' " "	Irrig.	
124±		24" x 99' " "	equalizer	
124+90		18" x 84' " "	Irrigation	
97+34		8' x 3' x 51' Conc Box	70° Xing L	E-740 25h
106+08		15" x 9' Sewer Pipe	Outlet	V-224-L-18

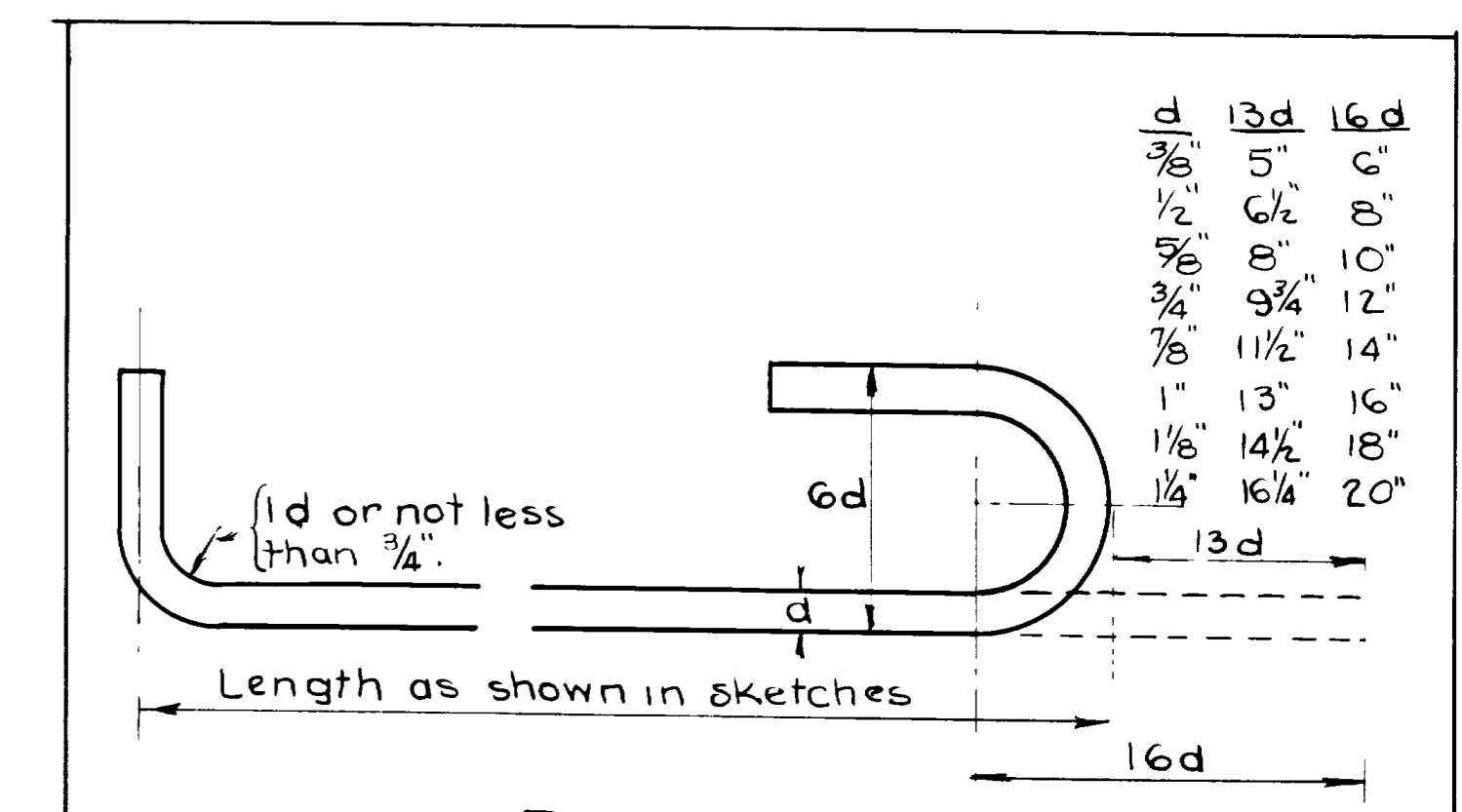


MARK	LOCATION	SIZE	LENGTH	No. BARS	TOTAL LENGTH	SKETCH	OTOO
A1	Top & Bottom Slab	3/4"	10'-7"	142	1502'-10"		8'-9"
A1-1	"	3/4"	7'-10"	4	31'-4"		6'-0"
A1-2	"	3/4"	4'-8"	4	18'-8"	"a" = 1'-1 1/2"	2'-10"
A2-1	"	3/4"	9'-4"	4	37'-4"		7'-8"
A2-2	"	3/4"	6'-1"	4	24'-4"		4'-5"
A2-3	"	3/4"	2'-11"	4	11'-8"		1'-3"
B1	Side Walls & Slabs	1/2"	5'-10"	246	1435'-0"		
B2	"	1/2"	4'-2"	104	433'-4"		
C1	Top & Bottom Slabs	1/2"	26'-4"	34	895'-4"		
C2	Side Walls	1/2"	27'-8"	12	332'-0"		
D1	Bottom Slab Apron & Cutoff Wall	1/2"	33'-8"	26	875'-4"		
E1	Intake & Outlet	1/2"	9'-10"	2	19'-8"		
E2	"	1/2"	10'-6"	2	21'-0"		

MARK	LOCATION	SIZE	LENGTH	No. BARS	TOTAL LENGTH	SKETCH	OTO. TO
G8	Short Wing-walls	1/2"	5'-6"	2	11'-0"		
G9	"	1/2"	4'-10"	2	9'-8"	a = 2'-10"	
G10	"	1/2"	4'-4"	2	8'-8"	a = 2'-4"	
G11	"	1/2"	3'-9"	2	7'-6"	a = 1'-9"	
H1	Curb Bottom	3/4"	9'-3"	6	55'-6"		
H2	" Top	1/2"	9'-10"	4	39'-4"		
S1	Curb Stirrups	1/2"	4'-3"	20	85'-0"		

$1681'-8" \times \frac{3}{4}" \text{ Bars @ } 1.502 \text{ lbs/ft} = 2525.86 \text{ \#}$
 $4+23'-10" \times \frac{1}{2}" @ .668 \text{ lbs/ft} = 2955.12 \text{ \#}$
TOTAL = 5480.98 Lbs

MARK	LOCATION	SIZE	LENGTH	No. BARS	TOTAL LENGTH	SKETCH	OTOO
E3	Intake & Outlet	1/2"	11'-5"	2	22'-10"		
E4	"	1/2"	12'-1"	2	24'-2"		
E5	Cut-off Walls	1/2"	12'-10"	4	51'-4"		
F1	Long Wing-walls	1/2"	6'-7"	4	26'-4"		
F2	"	1/2"	6'-0"	2	12'-0"		
F3	"	1/2"	3'-10"	2	7'-8"		
F4	Short	1/2"	5'-3"	4	21'-0"		
F5	"	1/2"	4'-5"	2	8'-10"		
F6	"	1/2"	2'-8"	2	5'-4"		
G1	Long	1/2"	6'-1"	2	12'-2"		
G2	"	1/2"	5'-8"	2	11'-4"	a = 3'-8"	
G3	"	1/2"	5'-2"	2	10'-4"	a = 3'-2"	
G4	"	1/2"	4'-9"	2	9'-6"	a = 2'-9"	
G5	"	1/2"	4'-3"	2	8'-6"	a = 2'-3"	
G6	"	1/2"	3'-10"	2	7'-8"	a = 1'-10"	
G7	Short	1/2"	6'-0"	2	12'-0"	a = 4'-0"	

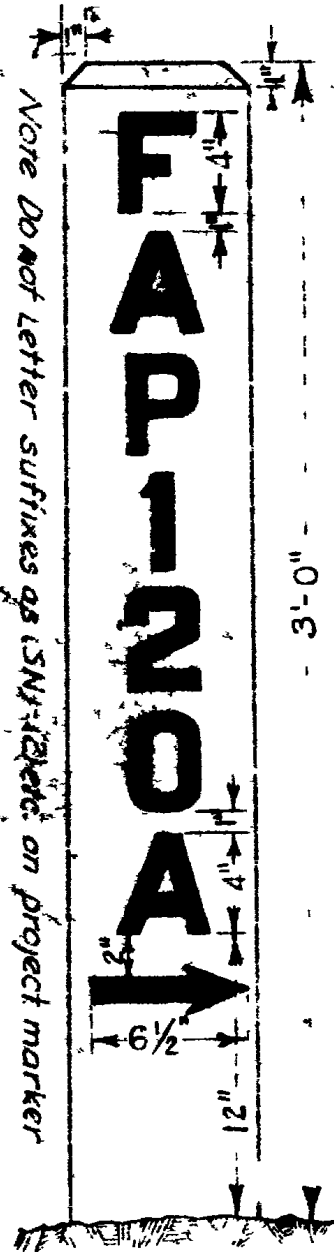


d	13d	16d
3/8"	5"	6"
1/2"	6 1/2"	8"
5/8"	8"	10"
3/4"	9 1/4"	12"
7/8"	11 1/2"	14"
1"	13"	16"
1 1/8"	14 1/2"	18"
1 1/4"	16 1/4"	20"

ROD NOTES

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.

DA-WR-12 (1)



Note Do not letter suffixes of S.N. sheets on project marker

POST
DOUGLASS FIR
OF SOUND QUALITY
THREE COATS OF FIRE-RESISTANT
WHITE PAINT.

LETTERS AND DIGITS - U.S. GOVT JOINT BOARD STANDARD, 4" SERIES "D" PAINTED BLACK IN ACCORDANCE WITH A.A.S.H.O SPECIFICATIONS

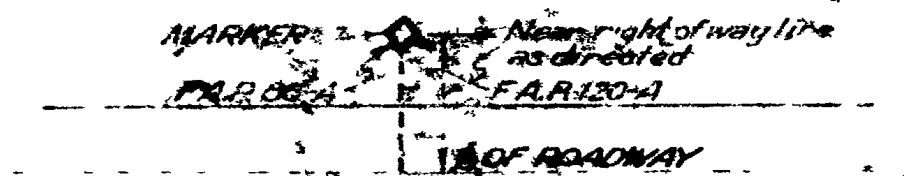
MARKERS ARE TO BE PLACED ACCURATELY AT BEGINNING AND END OF PROJECT, UNLESS OTHERWISE DIRECTED.

POSTS ARE TO BE PLACED IN ACCORDANCE WITH SPECIFICATIONS

WHERE PROJECT JOINS A COMPLETED FEDERAL AID PROJECT, THE CONTRACTOR SHALL PAINT ON THE ADJACENT FACE OF THE POST, THE NUMBER REFERRING TO THAT PROJECT.

IF A SATISFACTORY MARKER IS NOW IN PLACE FOR THE ADJOINING PROJECT, NO NEW POST WILL BE REQUIRED. THE CONTRACTOR WILL ONLY BE REQUIRED TO REPAINT AND ADD THE LETTERING.

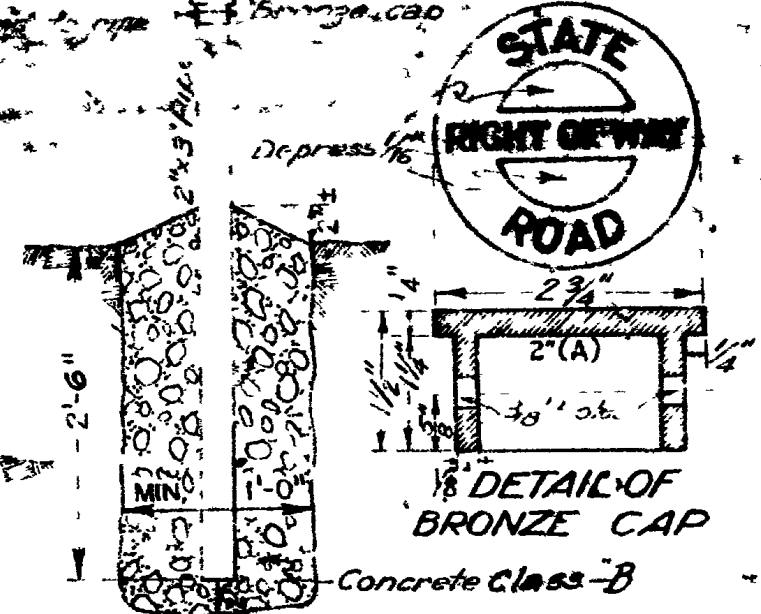
ON F.A.S. PROJECTS USE THE LETTERS F A S INSTEAD OF F A P.



DETAIL OF LETTERING

SITUATION

FEDERAL AID PROJECT MARKER



ELEVATION
RIGHT OF WAY MARKER

RIGHT OF WAY MARKERS ARE TO BE PLACED AT PC AND PT OF ALL CURVES ON BOTH RIGHT OF WAY LINES AND AT INTERVALS OF NOT MORE THAN 500 FT.

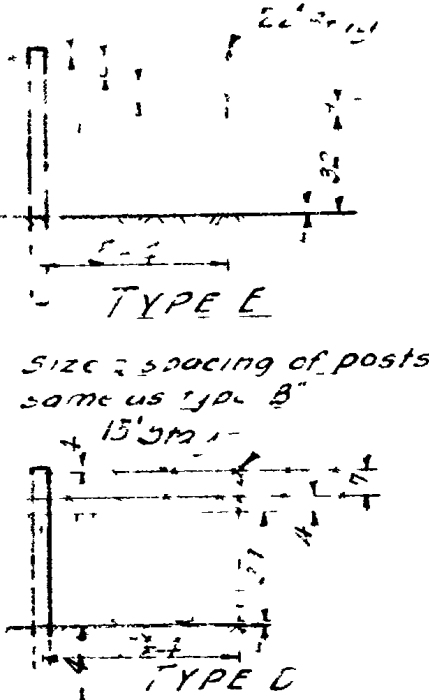
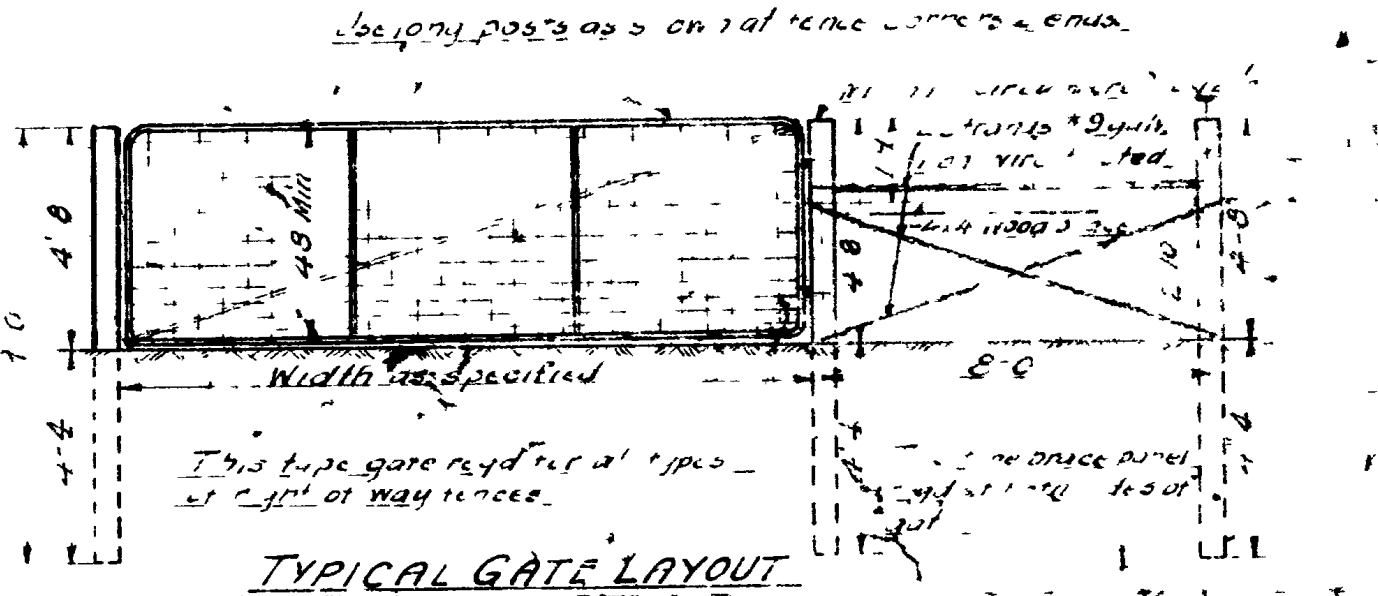
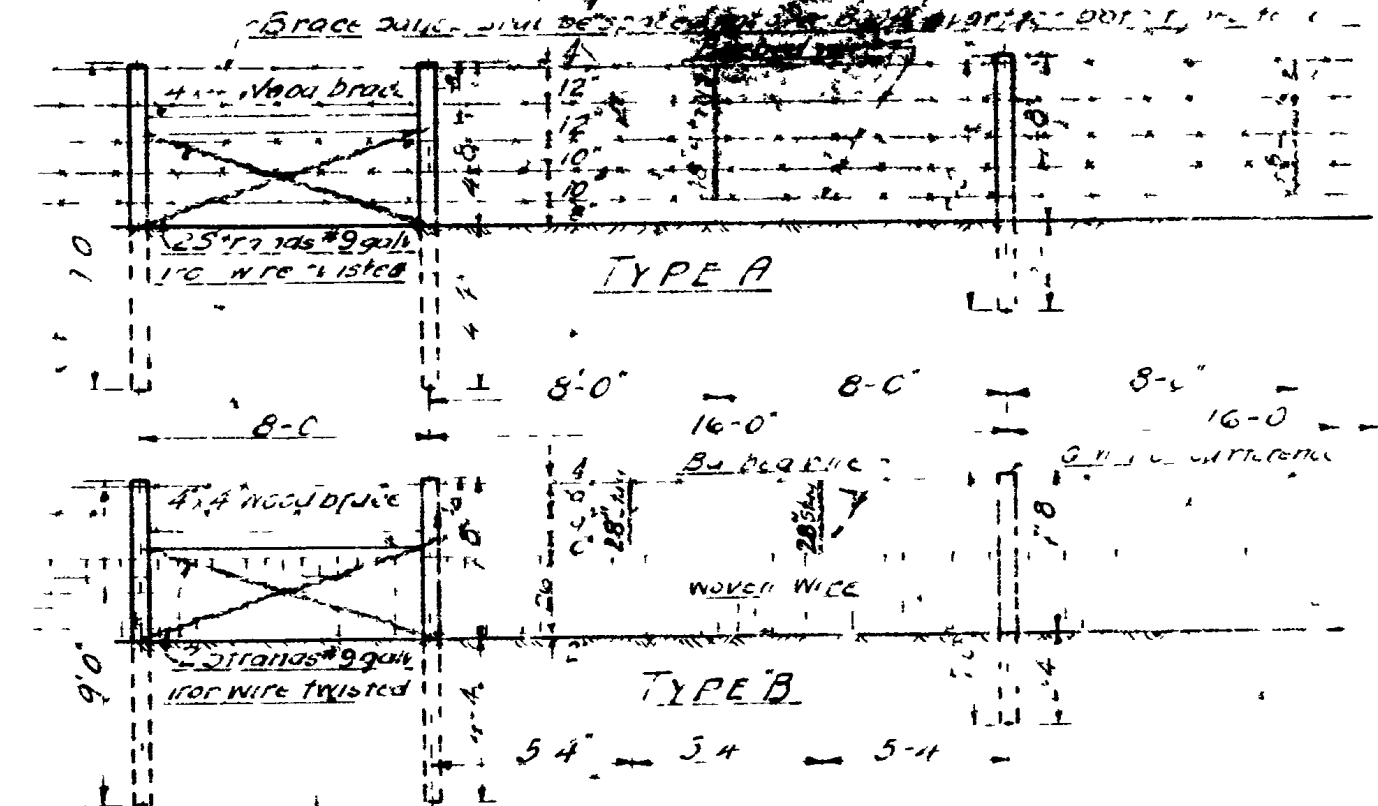
PREFERABLY NEAR SECTION LINES OR PROPERTY CORNERS

1/2" GALVANIZED IRON PIPE MAY BE SUBSTITUTED FOR BOILER TUBE PIPE DIMENSION "A" OF CAP TO BE ADJUSTED ACCORDINGLY

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

STANDARD FEDERAL AID AND RIGHT OF WAY MARKERS

W.L.A.
R.F.S.
S.W.
5-3-39

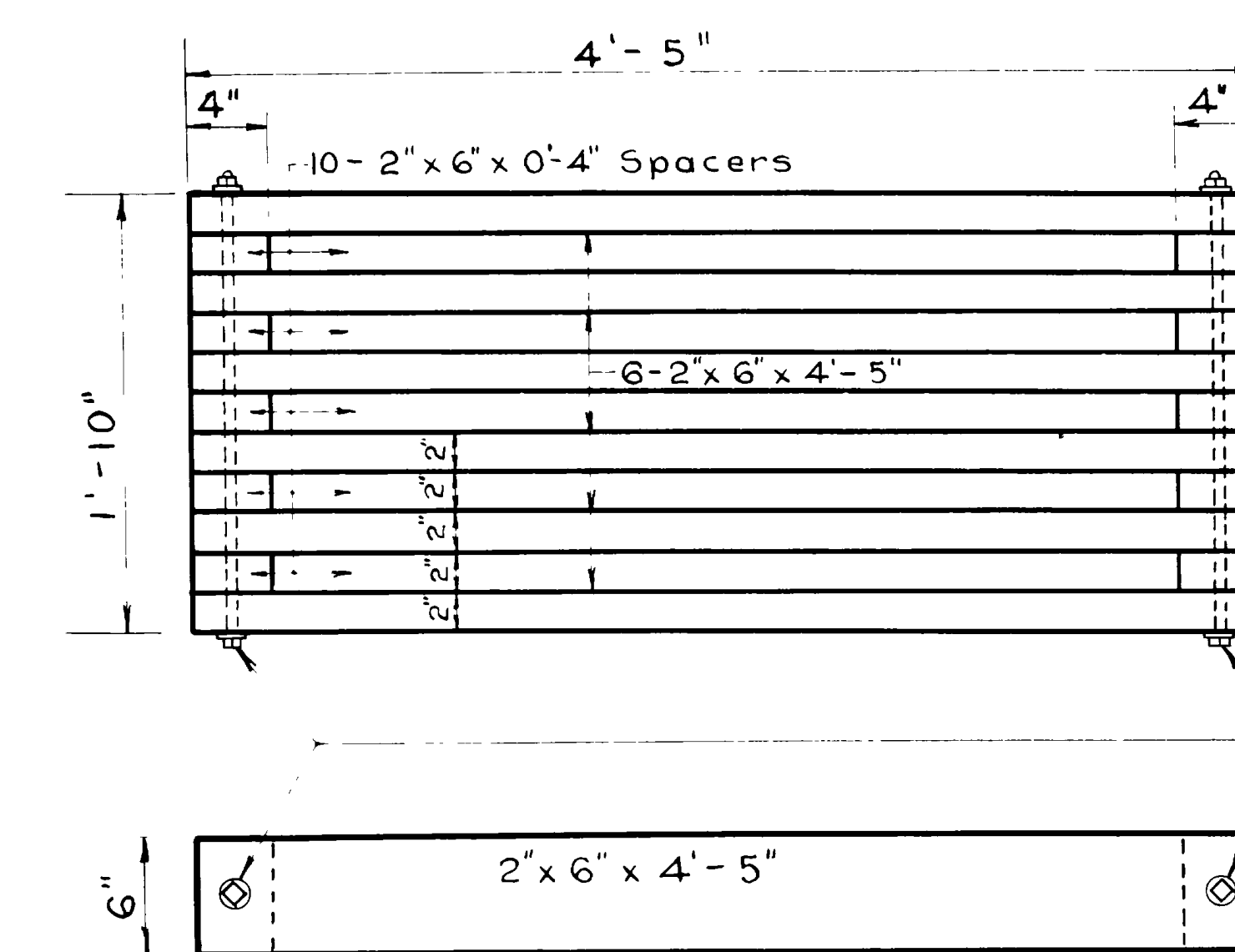
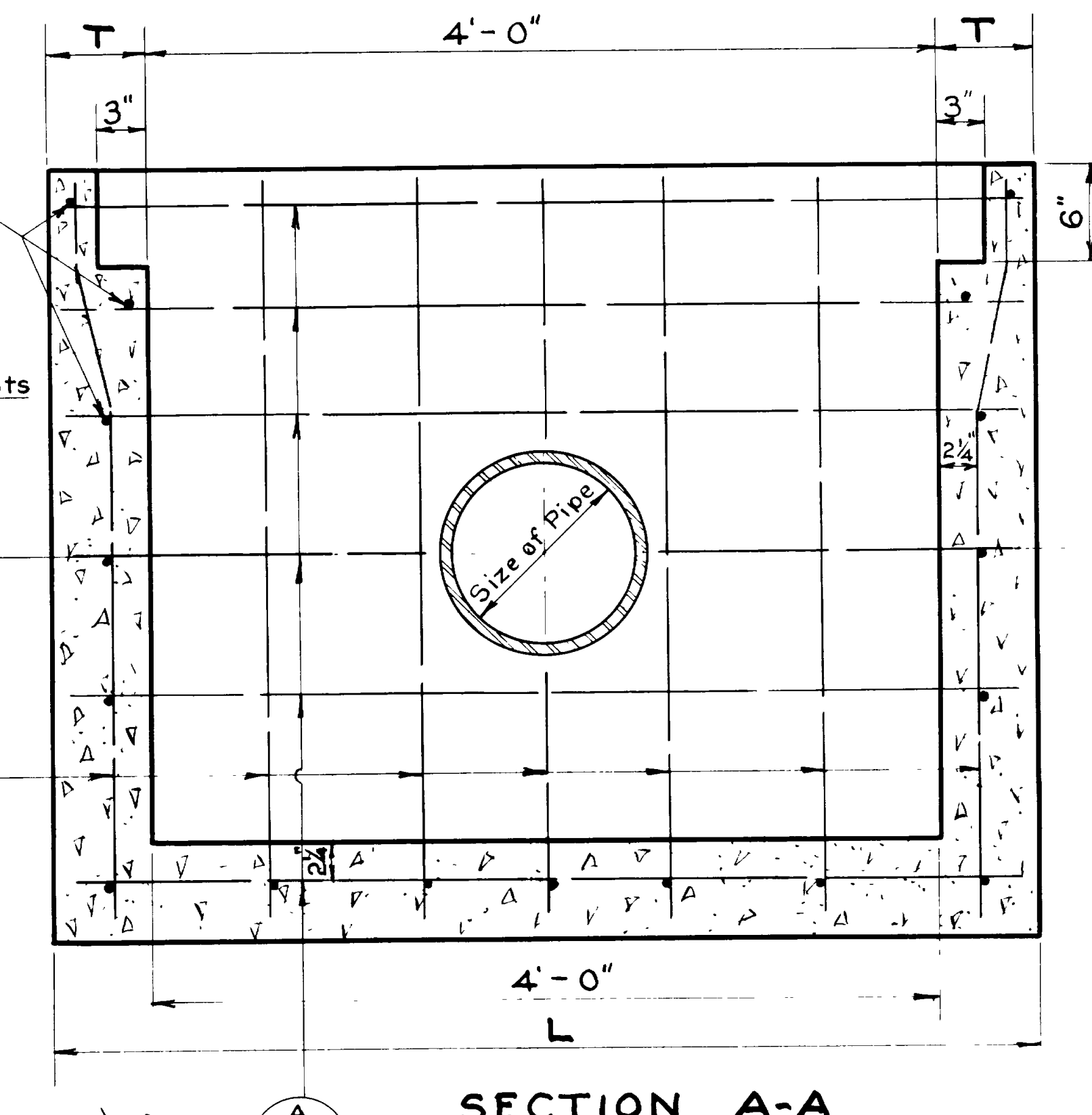
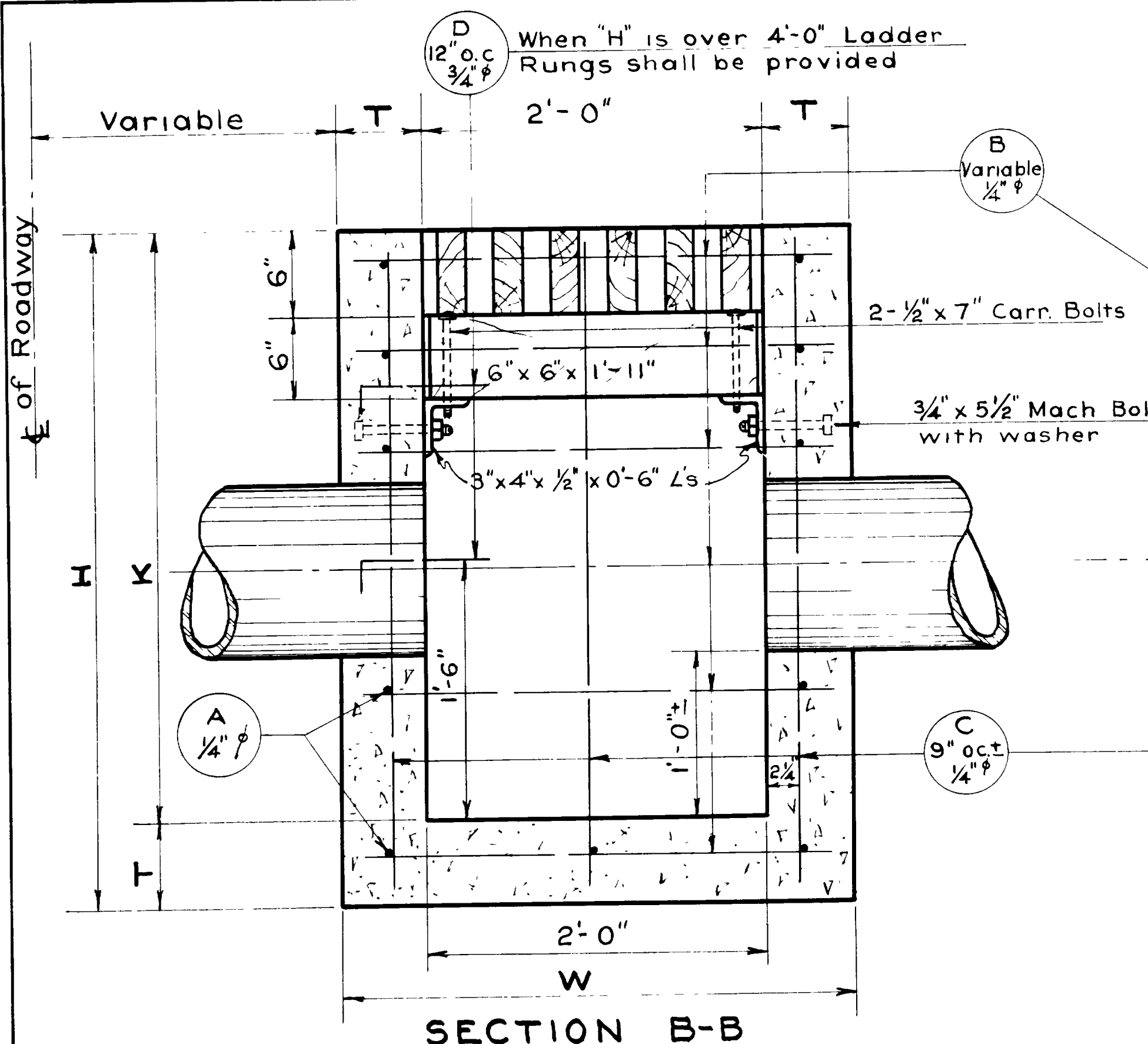


SIZE & SPACING OF POSTS SAME AS TYPE B

W.L. ANDERSON DESIGN

STANDARD RIGHT OF WAY FENCES

W.L.A.
R.F.S.
S.W.
5-3-39



DETAIL OF WOOD GRATE
Scale: 1/2" = 1'-0"

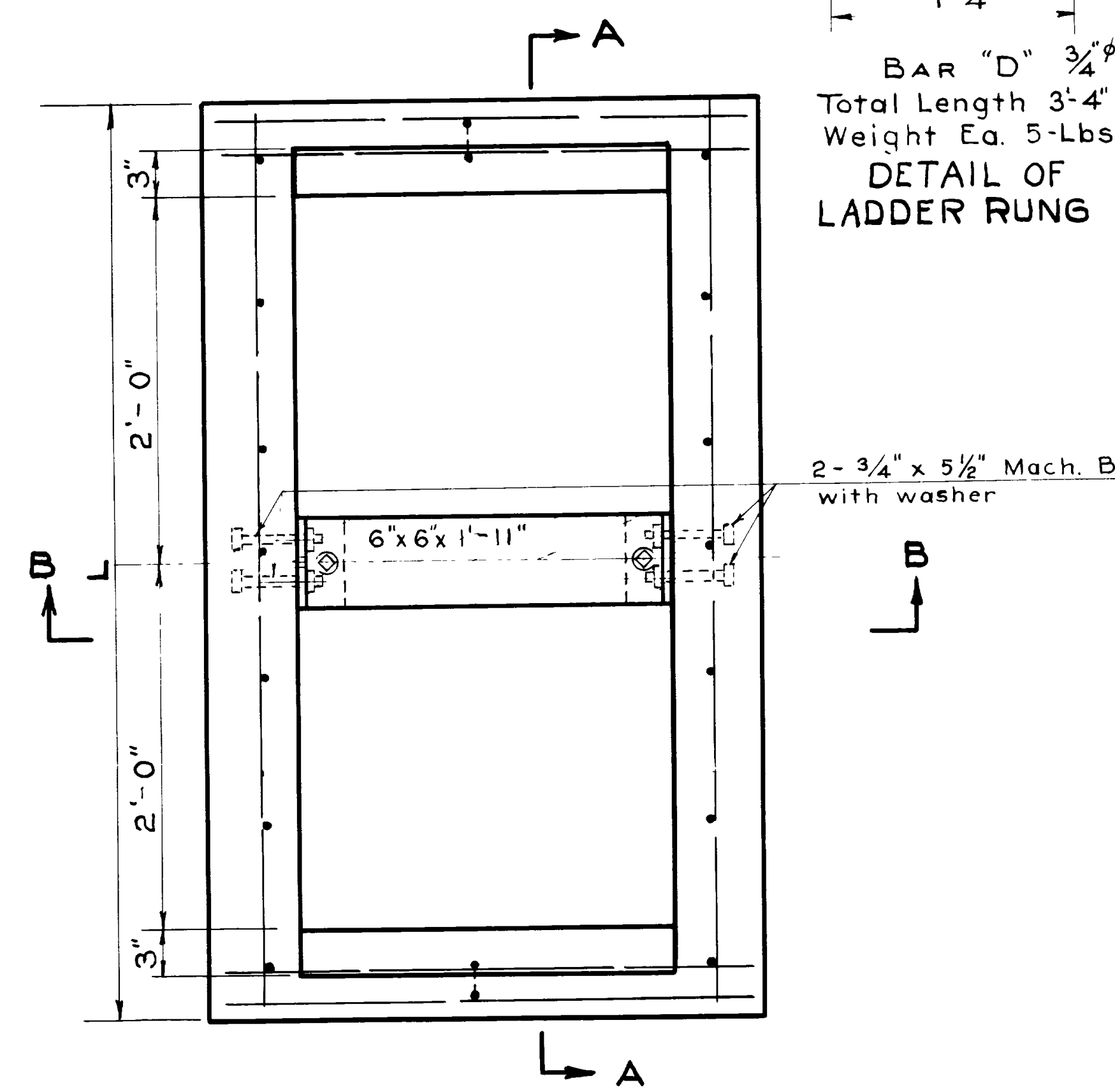
NOTE:
All lumber shall be full size California Redwood structural grade. (Dense Select) Payment for Grating and Supports to be in accordance with Section 8 of Standard Specifications.
Grating & Supports = 36 F B M.

Note: Line #1 to be used for the following locations on AW(PE) FAP219 A (1) (DAWR #30) 0+40 Rt+Lt, 1+50 Lt, 7+00 Rt+Lt, 13+50 Rt+Lt, 19+00 Rt+Lt, 25+50 Rt+Lt, 31+00 Rt+Lt, 36+00 Rt+Lt, 41+00 Rt+Lt, 46+00 Rt+Lt, 52+00 Rt+Lt, 58+00 Rt+Lt, 64+00 Rt+Lt and 70+00 Rt+Lt.

DESIGN DATA
Live Load = H-15 Loading
fc = 1,000 psi fs = 20,000 psi n = 10

SCHEDULE OF INSTALLATIONS
(See General Notes)

CONST. No.	LINE No.	TYPE	SIZE OF PIPE	KIND OF PIPE	DETAIL					REINF. STEEL				UNITS		QUANT.			PROJECT									
					T	L	W	K	H	BAR "A"	BAR "B"	BAR "C"	BAR "D"	REQ. D.	REINF. STEEL LBS	CONC. Cu Yds	EXCAV. FOR STRUCT. Cu Yds	STA.	NAME	Number								
	1	B	8" 18"	Underdrain	6"	5'-0"	3'-0"	6'-0"	6'-6"	4'-9"	19	9"	2'-9"	23	9"	6'-3"	16	3'-4"	4	12"	13	14	62	1.8	9	See Note Above	Hill Field - South Approach	AW(PE) F.A.P. 219-A(1)
	2	A	24"	CGMP	6"	5'-0"	3'-0"	6'-5"	6'-11"	4'-9"	22	9"	2'-9"	25	9"	6'-8"	18	3'-4"	5	12"	1	2	74	2.0	9	110+0.43	Nye's Cor. - Hot Spgs	AW(PE) F.A.P. 214-C(1)
	3	B	18"	Tile	6 1/2"	5'-1"	3'-1"	6'-6"	7'-0"	4'-10"	19	9"	2'-10"	23	9"	6'-9"	16	3'-4"	5	12"	4	74	2.32	11	225+00	Ridwood Road - No. Temple 35th St.	AW(PE) F.A.P. 229-A(1)	
	4	B	18"	Tile	7 1/2"	5'-2"	3'-2"	7'-0"	7'-7"	4'-11"	21	9"	2'-11"	25	9"	7'-4"	16	3'-4"	6	12"	3	84	2.82	12	231+00	" " " "	" " " "	
	5	B	18"	Tile	7 1/2"	5'-3"	3'-3"	7'-6"	8'-1 1/2"	5'-0"	23	9"	3'-0"	27	9"	7'-10"	16	3'-4"	6	12"	1	86	3.25	13	251+00	" " " "	" " " "	
	6	B	18"	Tile	8"	5'-4"	3'-4"	8'-0"	8'-8"	5'-1"	23	9"	3'-1"	27	9"	8'-5"	16	3'-4"	6	12"	1	86	3.25	13	254+75	" " " "	" " " "	
DAWR #120	7	A	18"	Conc.	6"	5'-0"	3'-0"	4'-0"	4'-6"	4'-9"	13	9"	2'-9"	17	9"	4'-3"	16	3'-4"	3	12"	1	44	1.23	7	240+29	Ogden Arsenal - Rivardale	AW(PE) F.A.P. 222-B(1)	
DAWR #120	8	A	18"	Conc.	6"	5'-0"	3'-0"	3'-6"	4'-0"	4'-9"	11	9"	2'-9"	15	9"	3'-9"	16	3'-4"	3	12"	1	41	1.1	7	237+90	" " " "	" " " "	
	9	A	18"	Conc.	6"	5'-0"	3'-0"	3'-6"	4'-0"	4'-9"	11	9"	2'-9"	15	9"	3'-9"	16	3'-4"	3	12"	1	41	1.1	7	240+29	" " " "	" " " "	
	10	F																										
	11	F																										
	12	A	18"	Culvert	6"	5'-0"	3'-0"	4'-0"	4'-6"	4'-9"	13	9"	2'-9"	17	9"	4'-3"	16	3'-4"	3	12"	4	44	1.23	7	245+56	Weber to Davis Co. Line	SN.FAP 114-E(1)	
	13																											
	14																											



PLAN
Scale: 1/2" = 1'-0"

GENERAL NOTES
For materials and workmanship see State Standard Specifications for Road and Bridge Construction, 1939 edition.
All exposed edges to be chamfered 1" unless otherwise noted.
All reinforcing bars to be 1/4" and spaced 9" o.c. except as otherwise specified.
For Type "A" structures pipe will enter at sides, For Type "B" structures, pipe will enter at ends.
Wall thickness "T" to be 6" minimum.
A unit shall include Catch Basin, Grating, and Bearing angles complete.
Quantities shown are for one catch basin only. When units are indicated Rt. and Lt. for same station, The quantities are to be doubled.
Pipes to be installed according to requirements shown on Roadway Plans.